
LABORATORY REPORT

September 8, 2009

Brian Baker
Environmental Health & Engineering, Incorporated
117 Fourth Avenue
Needham, MA 02494

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on August 7, 2009. For your reference, these analyses have been assigned our service request number P0902721.

All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 936 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; TX Commission of Environmental Quality, NELAP ID T104704413-08-TX. 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.



Kate Aguilera
Project Manager

Client: Environmental Health & Engineering, Incorporated CAS Project No: P0902721
Project: 16512

CASE NARRATIVE

The samples were received intact under chain of custody on August 7, 2009 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.

Volatile Organic Compound Analysis

The samples were 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 upper control criterion was exceeded for Vinyl Acetate in the Continuing Calibration Verification (CCV) analyzed on August 14, 2009, therefore, a potential for a high bias exists for those associated sample concentrations reported with positive results. These samples were reanalyzed on a passing Continuing Calibration Verification (CCV) and the results are comparable with the original results. The data has been qualified accordingly.

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: Environmental Health & Engineering, Incorporated
Project: 16512

Folder: P0902721

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 (Hg)</u>	<u>Pi2 (psig)</u>	<u>Pf2</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Bottle Order #</u>
P0902721-001.01	100214	6.0 L-Summa Canister Ambient	-6.6	-3.2	3.9			AC00972	14190		
P0902721-002.01	100215	6.0 L-Summa Canister Ambient	-4.4	-2.2	3.6			AC01236	14199		
P0902721-003.01	100216	6.0 L-Summa Canister Ambient	-4.6	-2.3	3.5			AC01670	14190		
P0902721-004.01	100217	6.0 L-Summa Canister Ambient	-7.6	-3.7	3.7			AC00407	14199		
P0902721-005.01	100218	6.0 L-Summa Canister Ambient	-2.8	-1.4	3.5			AC01215	14199		
P0902721-006.01	100219	6.0 L-Summa Canister Ambient	-28.8	-14.1	3.6			AC00518	14117		
P0902721-007.01	99952	6.0 L-Summa Canister Ambient	-2.2	-1.1	4.5			AC00635	14117		
P0902721-008.01	99953	6.0 L-Summa Canister Ambient	-5.2	-2.6	3.5			AC00953	14117		
P0902721-009.01	99954	6.0 L-Summa Canister Ambient	-5.2	-2.6	3.5			AC00641	14117		
P0902721-010.01	99955	6.0 L-Summa Canister Ambient	-4.8	-2.4	3.5			AC00885	14199		
P0902721-011.01	99956	6.0 L-Summa Canister Ambient	-5.3	-2.6	3.5			AC01028	14199		
P0902721-012.01	99957	6.0 L-Summa Canister Ambient	-29.5	-14.5	3.5			AC01164	14117		
P0902721-013.01	100202	6.0 L-Summa Canister Ambient	-4.9	-2.4	3.5			AC01545	14190		
P0902721-014.01	100203	6.0 L-Summa Canister Ambient	-4.7	-2.3	3.5			AC01544	14190		
P0902721-015.01	100204	6.0 L-Summa Canister Ambient	-3.9	-1.9	3.5			AC01168	14190		
P0902721-016.01	100205	6.0 L-Summa Canister Ambient	-5.1	-2.5	3.5			AC00320	14190		
P0902721-017.01	100206	6.0 L-Summa Canister Ambient	-6.1	-3.0	3.6			AC01248	14190		
P0902721-018.01	100207	6.0 L-Summa Canister Ambient	-29.4	-14.4	3.5			AC00993	14190		

Client: Environmental Health & Engineering, Incorporated
Project: 16512

Folder: P0902721

Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>P1 (Hg)</u>	<u>P1 (psig)</u>	<u>P1 (Hg)</u>	<u>P2 (psig)</u>	<u>P2 (Hg)</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Bottle Order #</u>
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Miscellaneous Items - received

- AVG00875
- AVG00858
- FC00602
- FC00310
- FC00439
- FC00251
- AVG01141
- FC00691
- FC00194
- AVG01122
- FC00272
- AVG00954
- AVG00563
- FC00676
- AVG00972
- FC00630
- AVG00949
- AVG00345
- AVG00934
- AVG00803
- AVG01084
- AVG01073
- FC00503
- FC00641
- AVG00922
- FC00769
- FC00618
- FC00111
- AVG01116
- AVG01151

Client: Environmental Health & Engineering, Incorporated
Project: 16512

Folder: P0902721

Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>Pi1</u> (Hg)	<u>Pi1</u> (psig)	<u>Pf1</u>	<u>Pi2</u> (Hg)	<u>Pi2</u> (psig)	<u>Pf2</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Bottle</u> <u>Order #</u>
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FC00283
FC00786
AVG00525
AVG00879
FC00530
FC00506

CHAIN OF CUSTODY FORM

DATE: 8/6/09

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725 PO92724

TO: CAS

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 16512

The cost of this analysis will be covered by EH&E Purchase Order # 16512

For EH & E Data Coordinator - URGENT DATA

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.	
① 100214	SUMMA-AIR	EPA TO-15 - FULL LIST	120 MIN	-6k
② 100215			↓	4.4
③ 100216				4.6
④ 100217				7.6
⑤ 100218				2.8
⑥ 100219				0 MIN
⑦ 99952			120 MIN	-2.2
⑧ 99953			↓	5.2
⑨ 99954				5.2
⑩ 99955				4.8
⑪ 99956				5.3
⑫ 99957			0 MIN	24.5
⑬ 100202				4.9
⑭ 100203				4.7
⑮ 100204				3.9
⑯ 100205				5.1

Special instructions:

- Standard turn around time
 - Fax results 781-247-4305
 - RETURN SAMPLES
 - Additional report recipient
 - Rush by _____ date/time
 - Other _____
 - Electronic transfer - datacoordinator@ehinc.com
- MFRAGALA @EHEINC.COM

Each signatory please return one copy of this form to the above address

Relinquished by: [Signature] of Environmental Health & Engineering, Inc. Date: 8/6/09
 Received by: [Signature] of (company name) CAS Date: 8/10/09
 Relinquished by: _____ of (company name) _____ Date: _____
 Received by: _____ of (company name) _____ Date: _____
 Relinquished by: _____ of (company name) _____ Date: _____
 Received by: _____ of (company name) _____ Date: _____
 Lab Data
 Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Incorporated

Work order: P0902721

Project: 16512

Sample(s) received on: 08/07/09

Date opened: 08/07/09

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.

- | | <u>Yes</u> | <u>No</u> | <u>N/A</u> |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 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 Was a chain-of-custody provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was the chain-of-custody properly completed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 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 | | | |
| 10 Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Trip blank supplied by CAS: _____ | | | |
| 11 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"/> |
| 12 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"/> |
| 13 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"/> |
| 14 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
P0902721-001.01	6.0 L Ambient Can					
P0902721-002.01	6.0 L Ambient Can					
P0902721-003.01	6.0 L Ambient Can					
P0902721-004.01	6.0 L Ambient Can					
P0902721-005.01	6.0 L Ambient Can					
P0902721-006.01	6.0 L Ambient Can					

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

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100214
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-001

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: AC00972

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	2.0	0.81	1.2	0.47	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.81	0.52	0.16	
74-87-3	Chloromethane	0.91	0.16	0.44	0.078	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.81	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.063	
106-99-0	1,3-Butadiene	ND	0.16	ND	0.073	
74-83-9	Bromomethane	0.47	0.16	0.12	0.042	
75-00-3	Chloroethane	ND	0.16	ND	0.061	
64-17-5	Ethanol	170	8.1	89	4.3	
75-05-8	Acetonitrile	270	0.81	160	0.48	E
107-02-8	Acrolein	3.9	0.81	1.7	0.35	
67-64-1	Acetone	54	8.1	23	3.4	
75-69-4	Trichlorofluoromethane	1.3	0.16	0.23	0.029	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.8	0.81	2.0	0.33	
107-13-1	Acrylonitrile	ND	0.81	ND	0.37	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.041	
75-09-2	Methylene Chloride	ND	0.81	ND	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.052	
76-13-1	Trichlorotrifluoroethane	0.70	0.16	0.091	0.021	
75-15-0	Carbon Disulfide	ND	0.81	ND	0.26	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.041	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	ND	0.045	
108-05-4	Vinyl Acetate	ND	8.1	ND	2.3	
78-93-3	2-Butanone (MEK)	3.0	0.81	1.0	0.27	

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.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100214

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-001

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/7/09

Analyst: Wida Ang

Date Analyzed: 8/17/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC00972

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.62

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.041	
141-78-6	Ethyl Acetate	1.3	0.81	0.36	0.22	
110-54-3	n-Hexane	4.0	0.81	1.1	0.23	
67-66-3	Chloroform	0.78	0.16	0.16	0.033	
109-99-9	Tetrahydrofuran (THF)	0.97	0.81	0.33	0.27	
107-06-2	1,2-Dichloroethane	0.24	0.16	0.059	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.030	
71-43-2	Benzene	3.4	0.16	1.1	0.051	
56-23-5	Carbon Tetrachloride	0.51	0.16	0.082	0.026	
110-82-7	Cyclohexane	ND	0.81	ND	0.24	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.035	
75-27-4	Bromodichloromethane	0.32	0.16	0.048	0.024	
79-01-6	Trichloroethene	ND	0.16	ND	0.030	
123-91-1	1,4-Dioxane	ND	0.81	ND	0.22	
80-62-6	Methyl Methacrylate	ND	0.81	ND	0.20	
142-82-5	n-Heptane	1.4	0.81	0.33	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.81	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.81	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.81	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.030	
108-88-3	Toluene	13	0.81	3.4	0.22	
591-78-6	2-Hexanone	ND	0.81	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.021	
123-86-4	n-Butyl Acetate	1.2	0.81	0.26	0.17	

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: _____

Date: _____

TO15scan.xls - 75 Compounds - PageNo.:

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100214
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-001

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: AC00972

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.81	ND	0.17	
127-18-4	Tetrachloroethene	ND	0.16	ND	0.024	
108-90-7	Chlorobenzene	ND	0.16	ND	0.035	
100-41-4	Ethylbenzene	2.6	0.81	0.60	0.19	
179601-23-1	m,p-Xylenes	9.1	0.81	2.1	0.19	
75-25-2	Bromoform	ND	0.81	ND	0.078	
100-42-5	Styrene	1.0	0.81	0.24	0.19	
95-47-6	o-Xylene	4.6	0.81	1.1	0.19	
111-84-2	n-Nonane	1.5	0.81	0.29	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.024	
98-82-8	Cumene	ND	0.81	ND	0.16	
80-56-8	alpha-Pinene	61	0.81	11	0.15	
103-65-1	n-Propylbenzene	ND	0.81	ND	0.16	
622-96-8	4-Ethyltoluene	1.1	0.81	0.22	0.16	
108-67-8	1,3,5-Trimethylbenzene	1.2	0.81	0.25	0.16	
95-63-6	1,2,4-Trimethylbenzene	3.8	0.81	0.78	0.16	
100-44-7	Benzyl Chloride	ND	0.16	ND	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.16	ND	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.16	ND	0.027	
5989-27-5	d-Limonene	17	0.81	3.1	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.81	ND	0.084	
120-82-1	1,2,4-Trichlorobenzene	ND	0.81	ND	0.11	
91-20-3	Naphthalene	17	0.81	3.2	0.15	
87-68-3	Hexachlorobutadiene	ND	0.81	ND	0.076	

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: _____

Date: _____

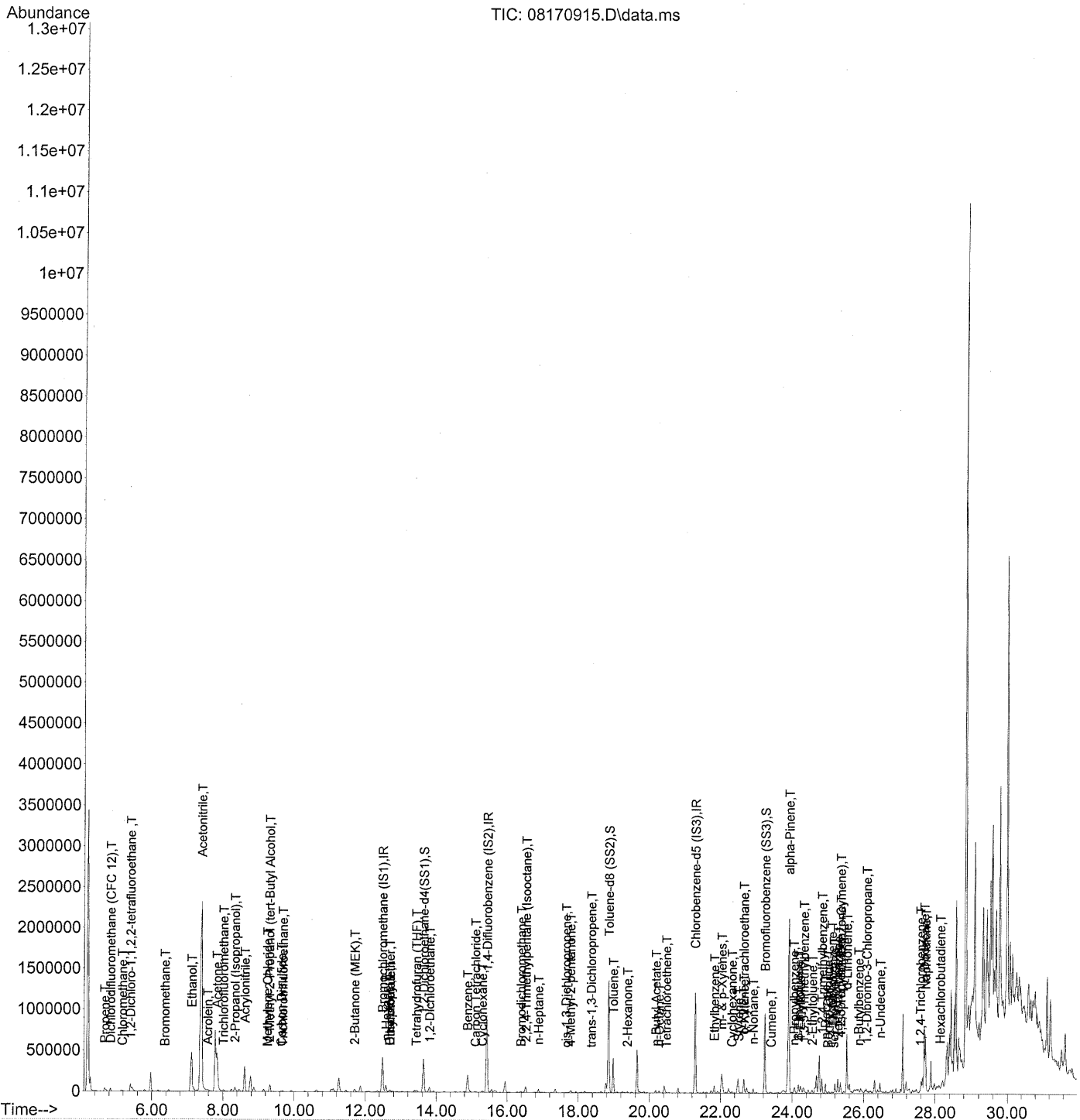
8/24/09

TO15scan.xls - 75 Compounds - PageNo.:

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 14:49:50 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214 ✓
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 14:49:50 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	210381	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.43	114	1064276	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	512250	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	423508	23.161	ng	-0.03
Spiked Amount	25.000			Recovery =	92.64%	✓
57) Toluene-d8 (SS2)	18.85	98	1167715	26.089	ng	-0.01
Spiked Amount	25.000			Recovery =	104.36%	✓
73) Bromofluorobenzene (SS3)	23.24	174	309239	26.199	ng	0.00
Spiked Amount	25.000			Recovery =	104.80%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	17964	1.244	ng	85
3) Dichlorodifluoromethan...	4.84	85	37219	1.577	ng	99
4) Chloromethane	5.17	50	8912	0.562	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	511	0.053	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	106	N.D.		
8) Bromomethane	6.37	94	2681	0.289	ng	99
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.12	45	945593	103.331	ng	100
11) Acetonitrile	7.40	41	4451523	166.103	ng	E 100
12) Acrolein	7.57	56	16689	2.396	ng	97
13) Acetone	7.83	58	286337m	33.162	ng	
14) Trichlorofluoromethane	8.01	101	16734	0.784	ng	97
15) 2-Propanol (Isopropanol)	8.34	45	101144	2.981	ng	92
16) Acrylonitrile	8.62	53	5116	0.328	ng	# 46
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.31	59	3824	0.127	ng	# 1
19) Methylene Chloride	9.25	84	1550	0.134	ng	96
20) 3-Chloro-1-propene (Al...	9.43	41	336	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3349	0.432	ng	95
22) Carbon Disulfide	9.64	76	14881	0.364	ng	96
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.	d	
27) 2-Butanone (MEK)	11.70	72	14239	1.826	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.69	87	613	0.059	ng	# 1
30) Ethyl Acetate	12.70	61	3285	0.809	ng	98
31) n-Hexane	12.58	57	51661	2.487	ng	100

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 14:49:50 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	8800	0.481 ng		100
34) Tetrahydrofuran (THF)	13.43	72	4960	0.597 ng		92
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.80	62	2462	0.147 ng		75
38) 1,1,1-Trichloroethane	14.17	97	191	N.D.		
39) Isopropyl Acetate	14.86	61	96	N.D.		
40) 1-Butanol	15.05	56	625	N.D.		
41) Benzene	14.88	78	96921	2.071 ng		100
42) Carbon Tetrachloride	15.10	117	4723	0.317 ng		96
43) Cyclohexane	15.29	84	8023	0.468 ng		97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.39	83	3056	0.198 ng	#	57
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.55	88	176	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	79729	1.447 ng		96
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.88	71	10583	0.843 ng		97
52) cis-1,3-Dichloropropene	17.65	75	4132	0.212 ng		99
53) 4-Methyl-2-pentanone	17.78	58	4636	0.412 ng		97
54) trans-1,3-Dichloropropene	18.36	75	4024	0.217 ng		94
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	350011	7.957 ng		98
59) 2-Hexanone	19.38	43	13809	0.472 ng		92
60) Dibromochloromethane	19.53	129	86	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	26052	0.756 ng		98
63) n-Octane	20.28	57	4884	0.459 ng		95
64) Tetrachloroethene	20.48	166	869	0.085 ng		99
65) Chlorobenzene	21.34	112	630	N.D.		
66) Ethylbenzene	21.82	91	81169	1.614 ng		99
67) m- & p-Xylenes	22.03	91	227462	5.592 ng		100
68) Bromoform	22.15	173	191	N.D.		
69) Styrene	22.51	104	18843	0.641 ng		87
70) o-Xylene	22.65	91	116158	2.848 ng		100
71) n-Nonane	22.91	43	25276	0.933 ng		95
72) 1,1,2,2-Tetrachloroethane	22.65	83	915	0.051 ng	#	18
74) Cumene	23.41	105	9502	0.184 ng		98
75) alpha-Pinene	23.90	93	991942	37.563 ng		67
76) n-Propylbenzene	24.05	91	26685	0.412 ng	#	80
77) 3-Ethyltoluene	24.17	105	66394	1.349 ng		99
78) 4-Ethyltoluene	24.23	105	32497	0.681 ng		100
79) 1,3,5-Trimethylbenzene	24.32	105	30786	0.765 ng		91

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
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 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 14:49:50 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1025	N.D.		
81) 2-Ethyltoluene	24.56	105	25157	0.507 ng		96
82) 1,2,4-Trimethylbenzene	24.83	105	97167	2.368 ng		86
83) n-Decane	24.93	57	44460	1.667 ng		96
84) Benzyl Chloride	25.00	91	3394m	0.088 ng	< RL	
85) 1,3-Dichlorobenzene	25.02	146	585	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	2011	0.091 ng		99
87) sec-Butylbenzene	25.17	105	3959	0.071 ng	#	69
88) 4-Isopropyltoluene (p-...	25.35	119	40818	0.826 ng		97
89) 1,2,3-Trimethylbenzene	25.35	105	28160	0.674 ng		95
90) 1,2-Dichlorobenzene	25.53	146	625	N.D.		
91) d-Limonene	25.53	68	187377	10.739 ng		80
92) 1,2-Dibromo-3-Chloropr...	26.07	157	578	0.085 ng	#	1
93) n-Undecane	26.46	57	41049	1.446 ng		92
94) 1,2,4-Trichlorobenzene	27.58	180	2299	0.170 ng	# < RL	96
95) Naphthalene	27.73	128	575420	10.326 ng		100
96) n-Dodecane	27.70	57	268608	8.146 ng		99
97) Hexachlorobutadiene	28.14	225	1693	0.197 ng	< RL	88
98) Cyclohexanone	22.32	55	8352	0.458 ng		98
99) tert-Butylbenzene	25.27	119	5971	0.150 ng		97
100) n-Butylbenzene	25.86	91	18196	0.398 ng	#	55

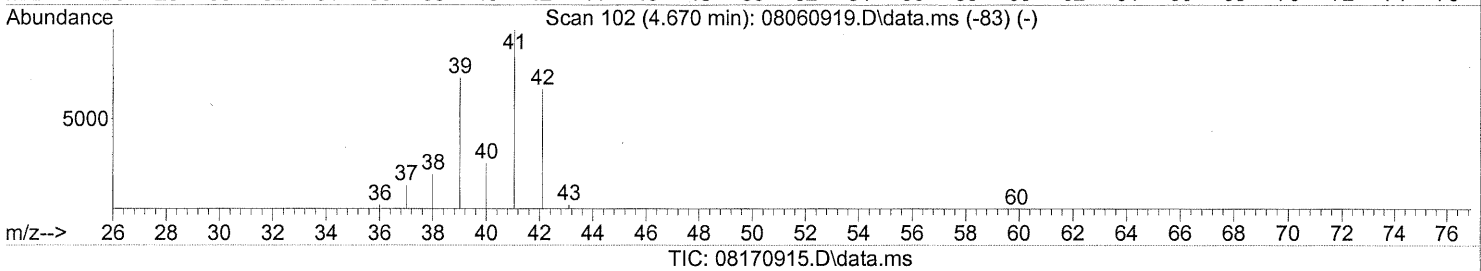
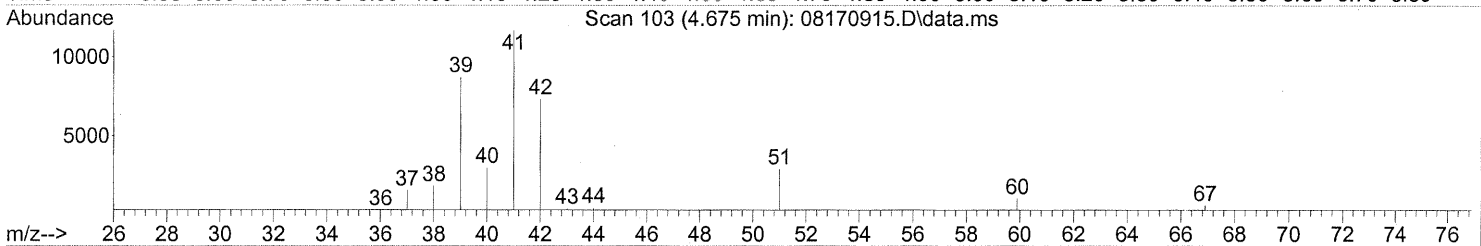
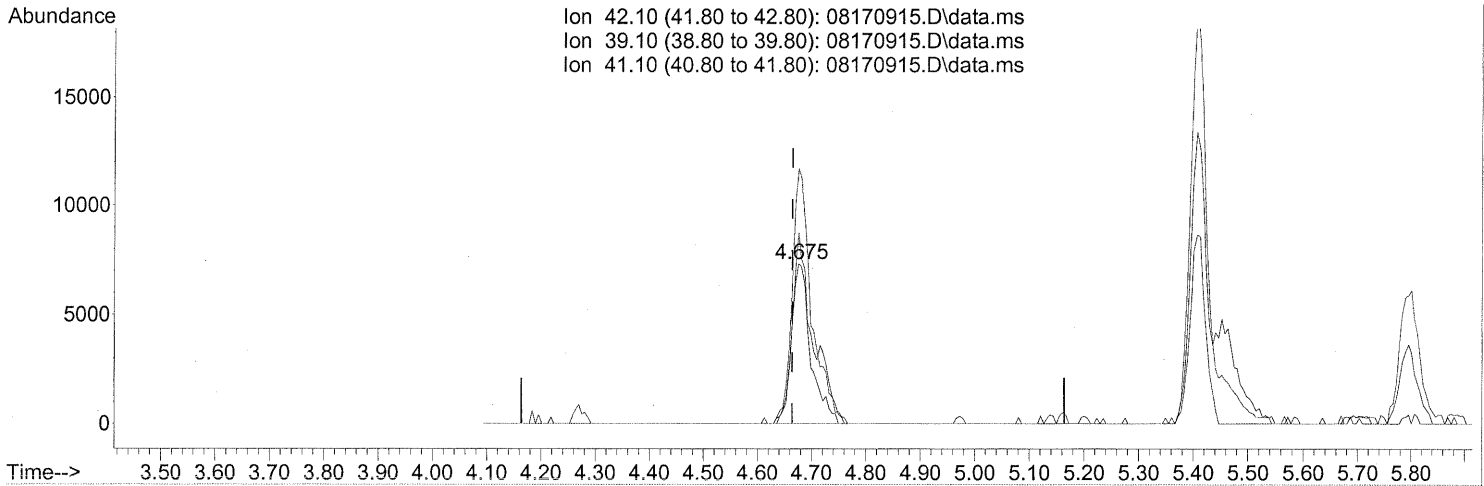
(#) = qualifier out of range (m) = manual integration (+) = signals summed

UH
8/24/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170915.D
Acq On : 17 Aug 2009 15:13
Operator : WA
Sample : P0902721-001 (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(2) Propene (T)

4.675min (+0.011) 1.24ng

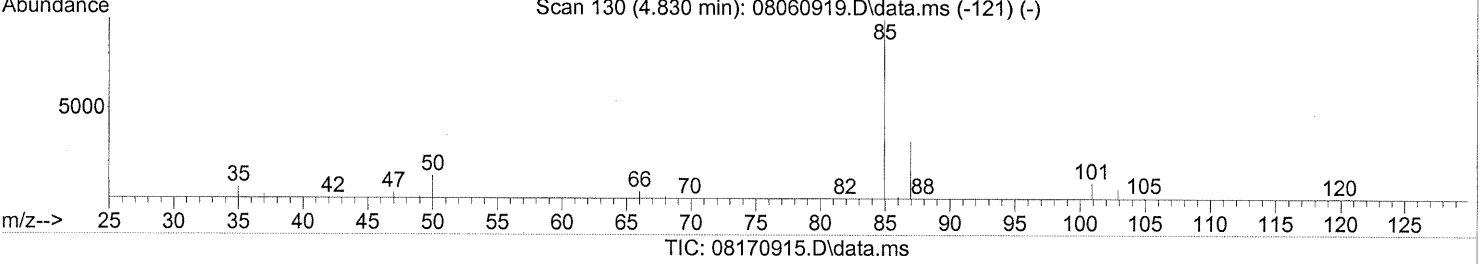
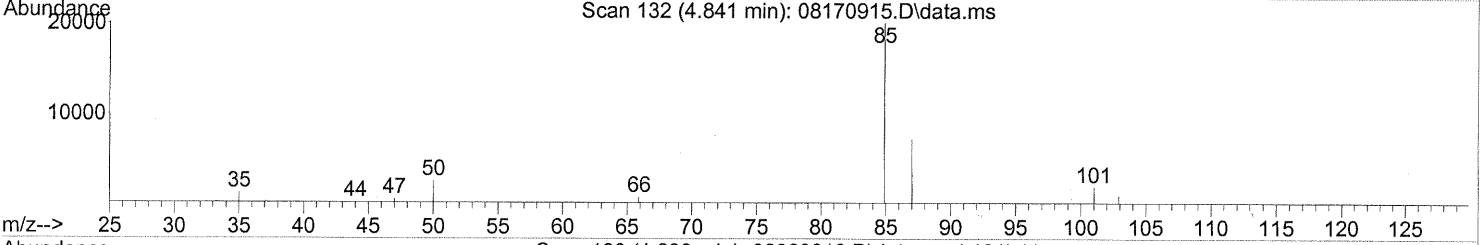
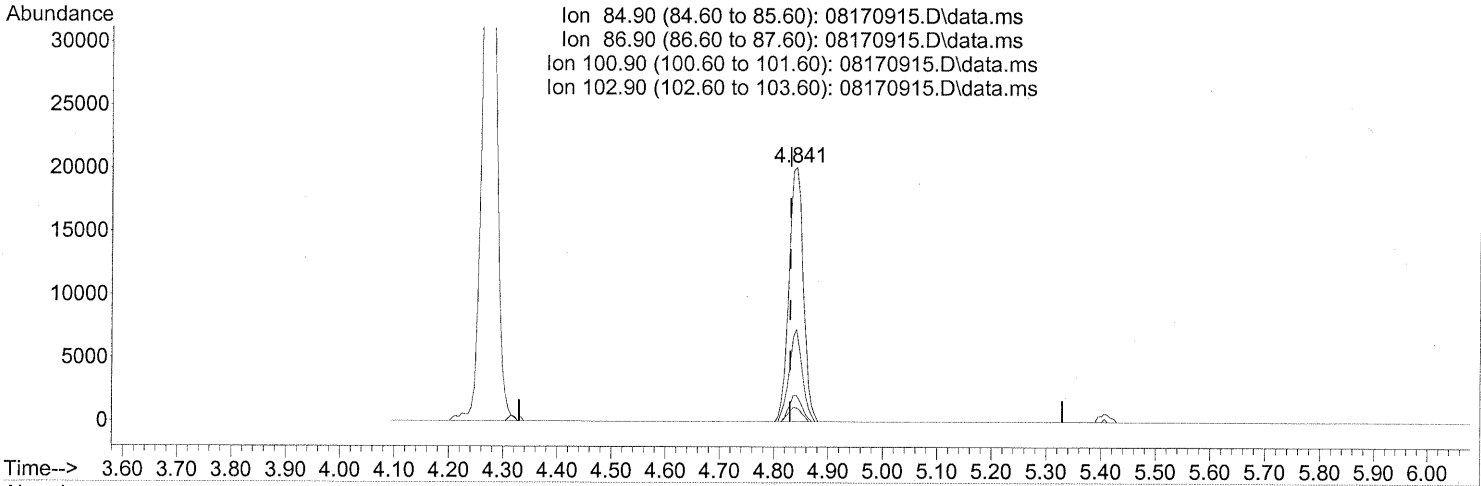
response 17964

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	131.83
41.10	150.20	165.82
0.00	0.00	0.00

Quantitation Report (Qedit)

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(3) Dichlorodifluoromethane (CFC 12) (T)

4.841min (+0.011) 1.58ng

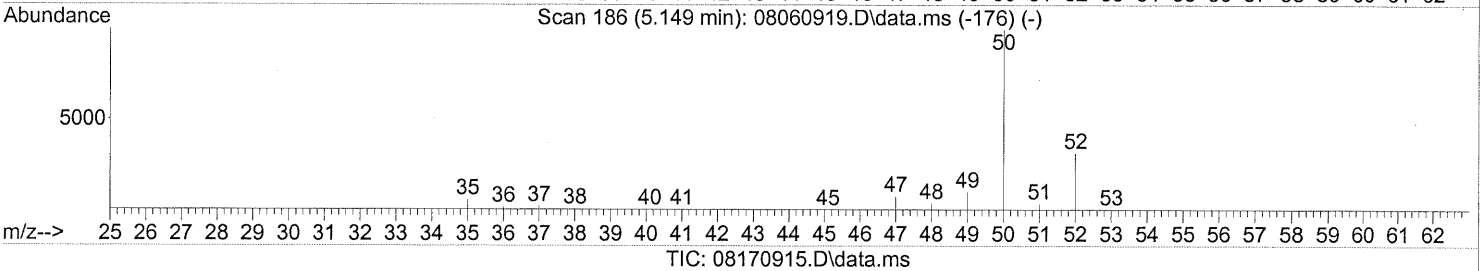
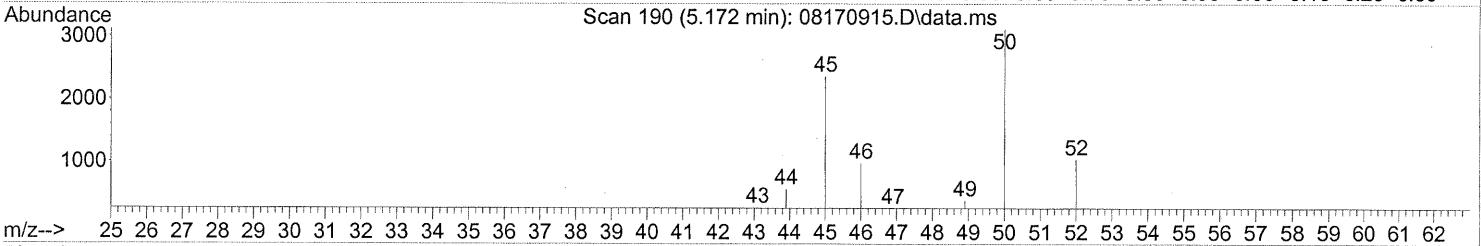
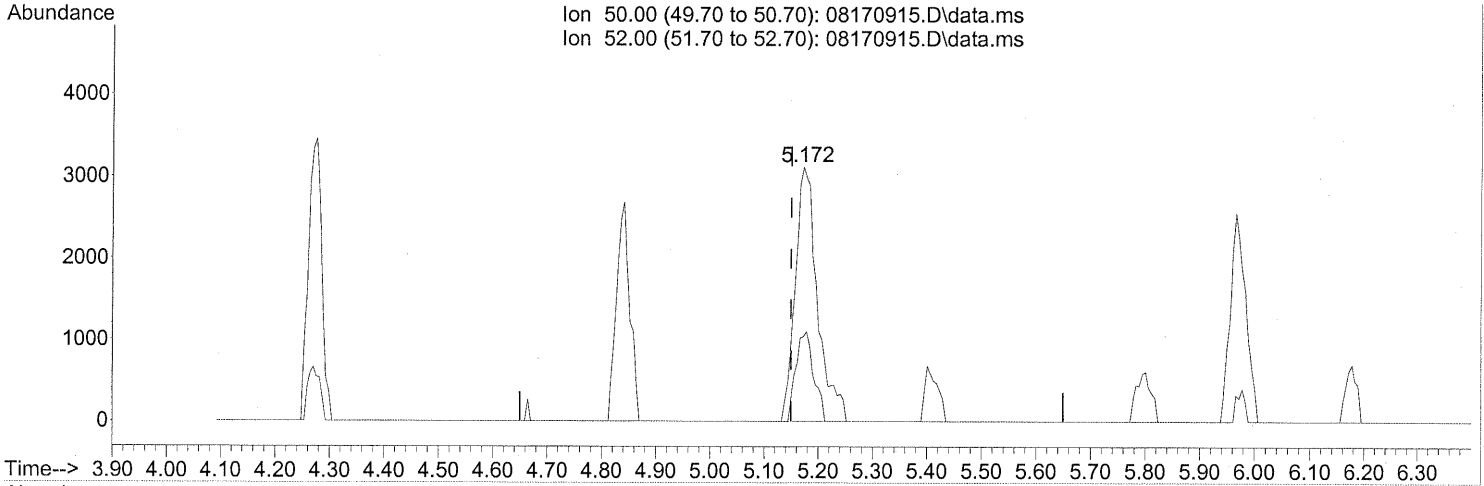
response 37219

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	33.29
100.90	8.80	9.30
102.90	5.20	5.22

Quantitation Report (Qedit)

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 Response via : Initial Calibration



(4) Chloromethane (T)

5.172min (+0.023) 0.56ng

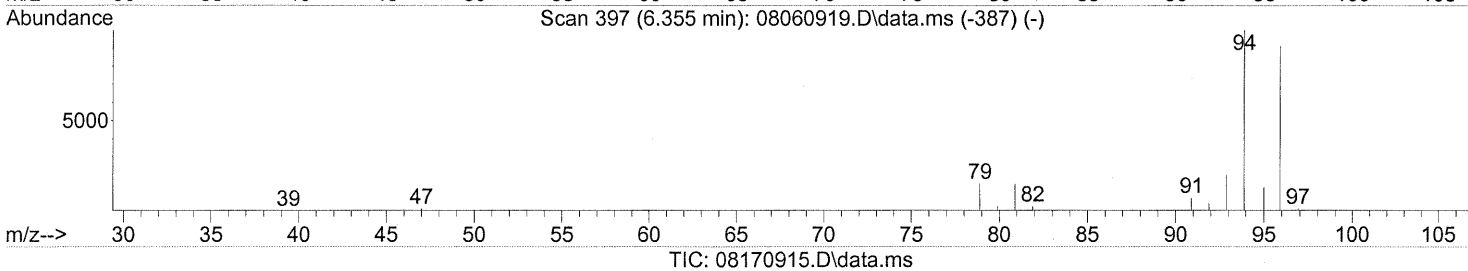
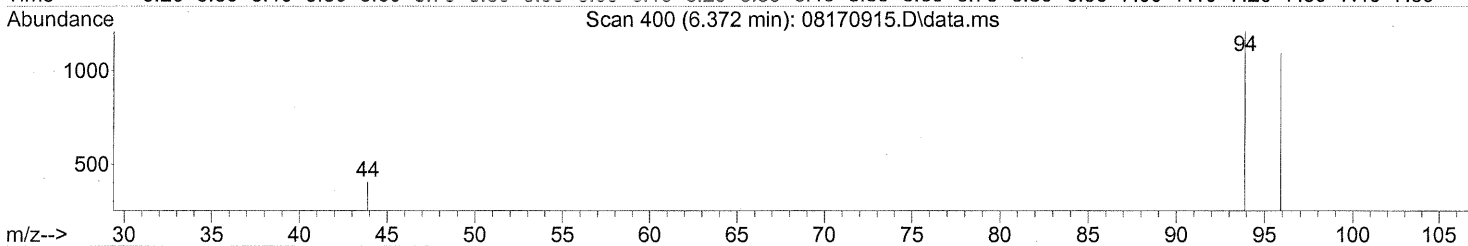
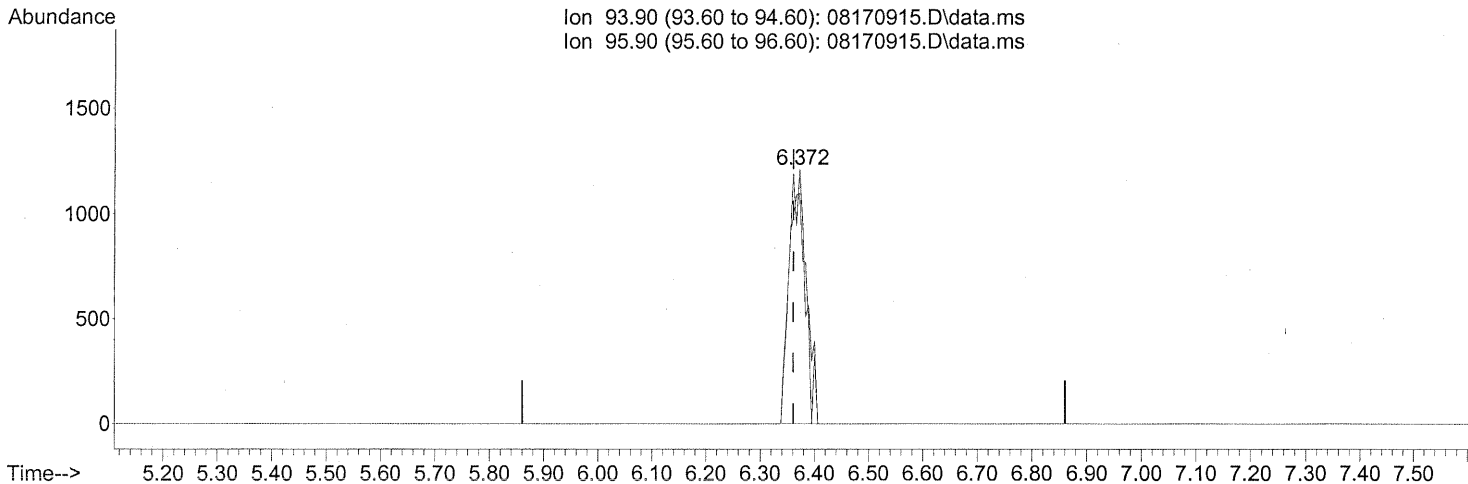
response 8912

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	28.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



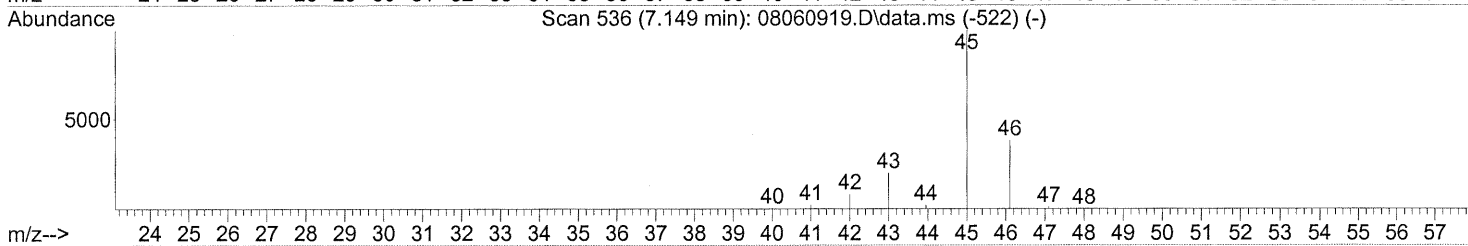
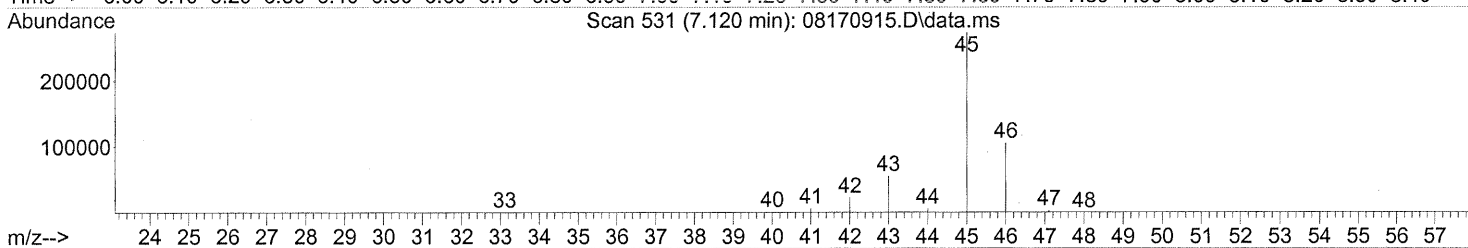
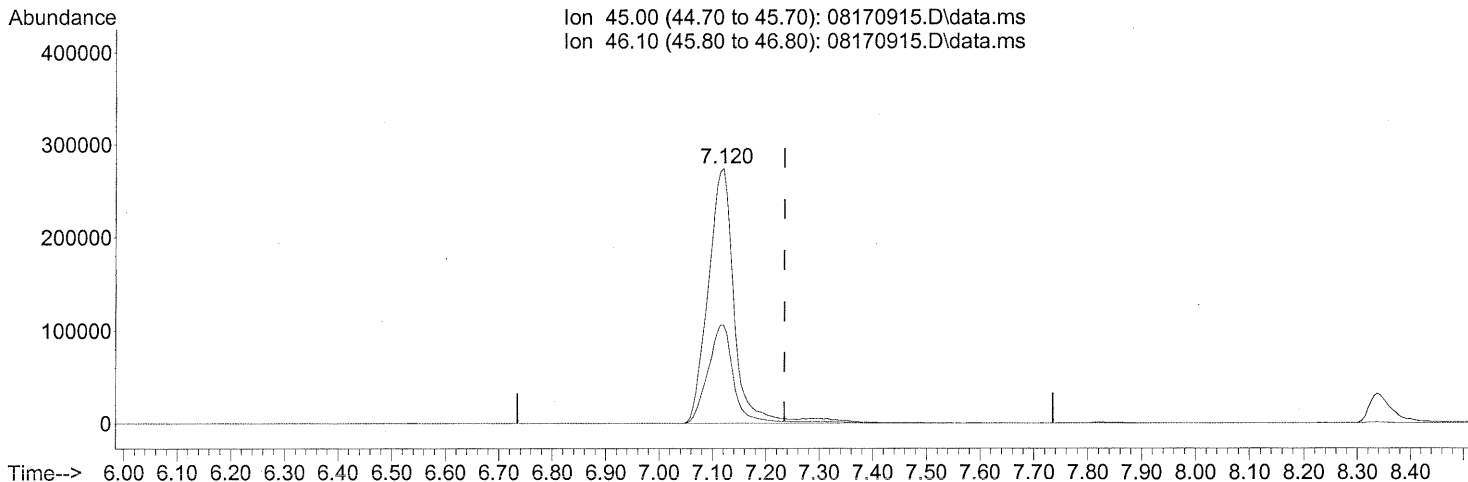
(8) Bromomethane (T)
 6.372min (+0.011) 0.29ng
 response 2681

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	92.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
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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



TIC: 08170915.D\data.ms

(10) Ethanol (T)

7.120min (-0.114) 103.33ng

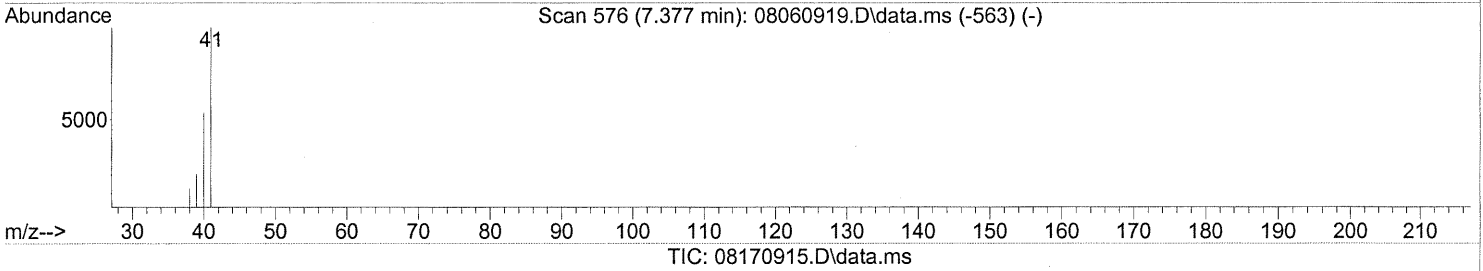
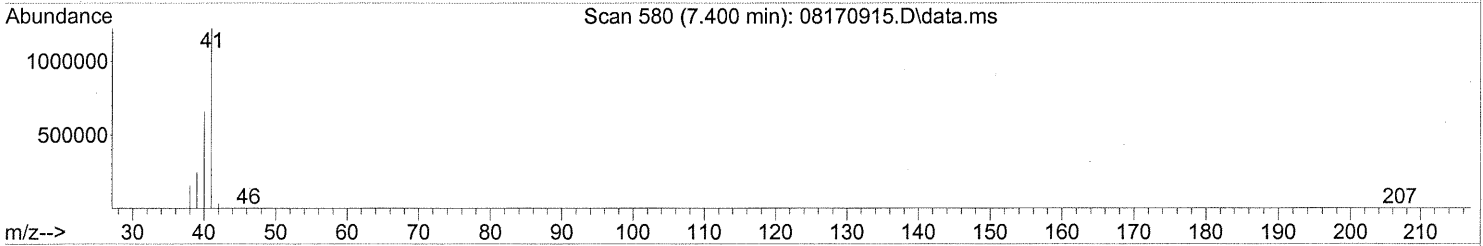
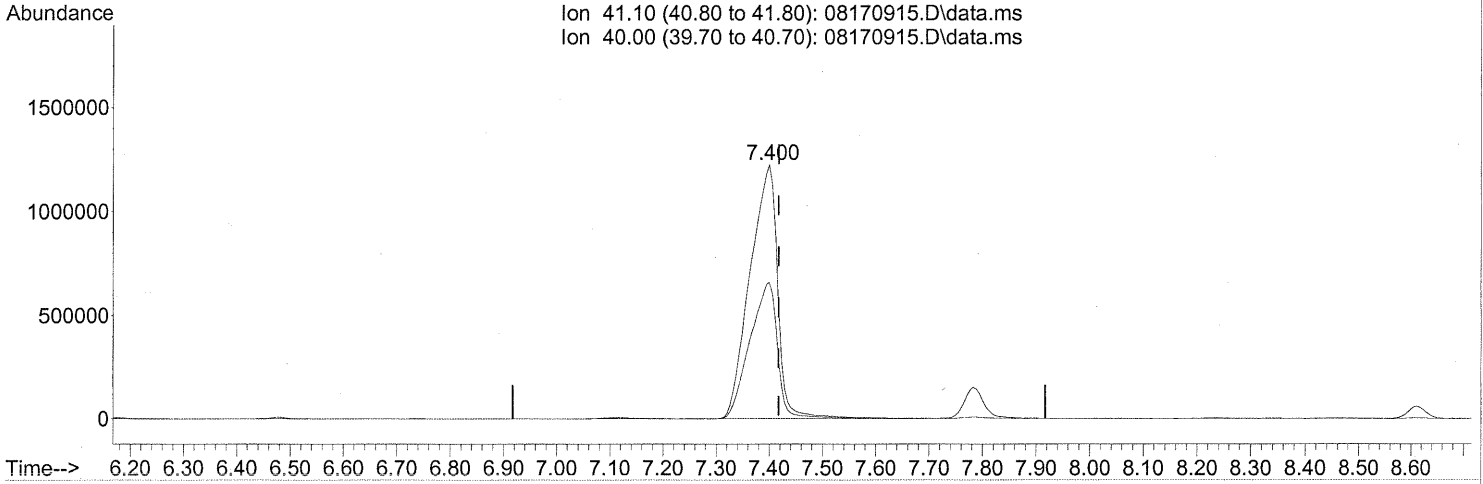
response 945593

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.400min (-0.017) 166.10ng *E*

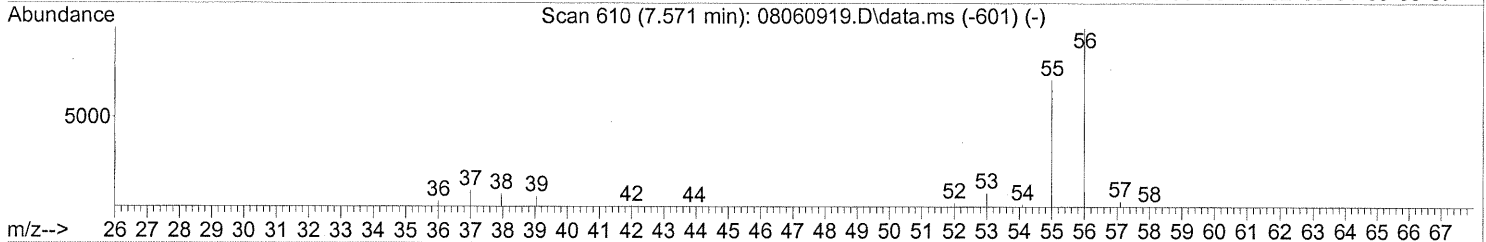
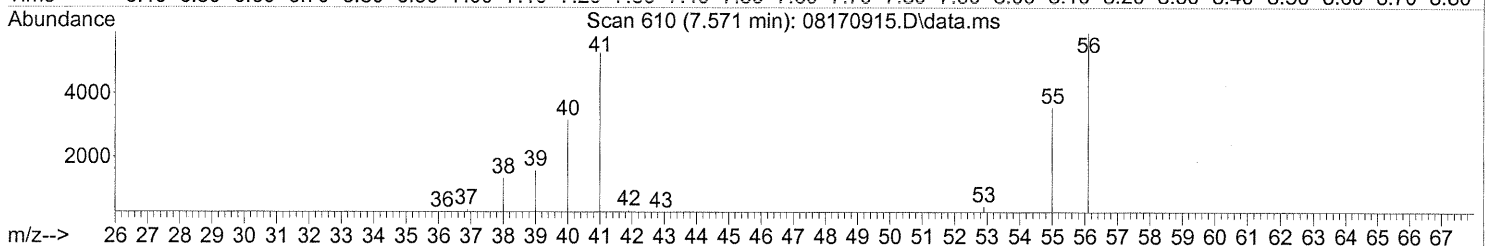
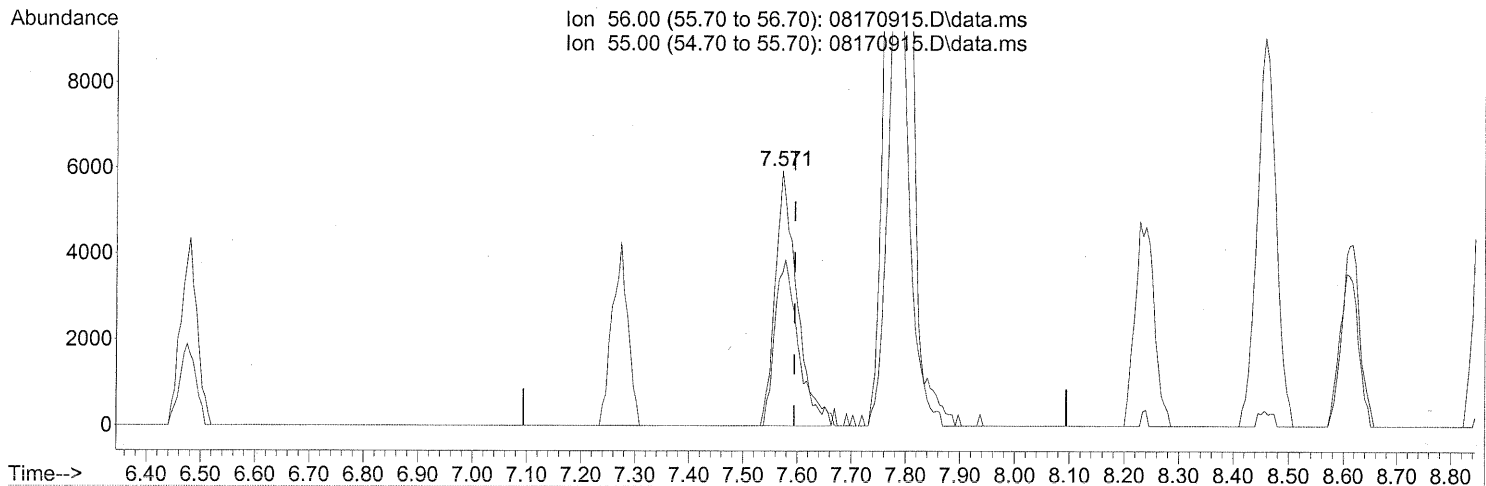
response 4451523

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
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 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(12) Acrolein (T)

7.571min (-0.023) 2.40ng

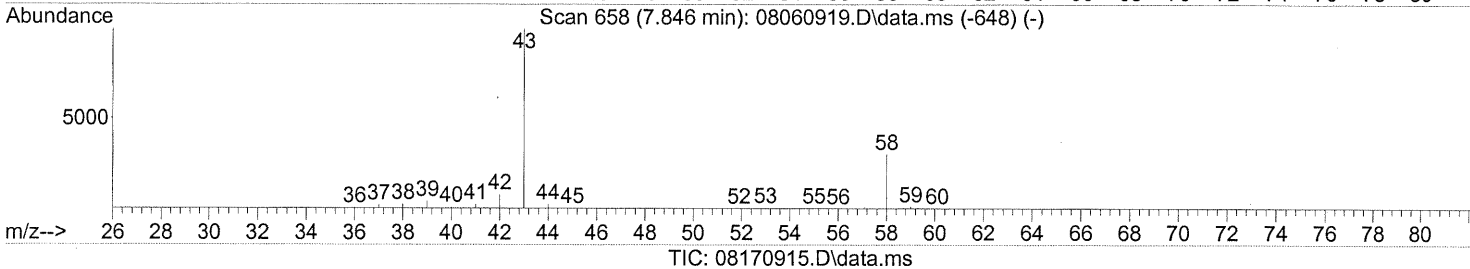
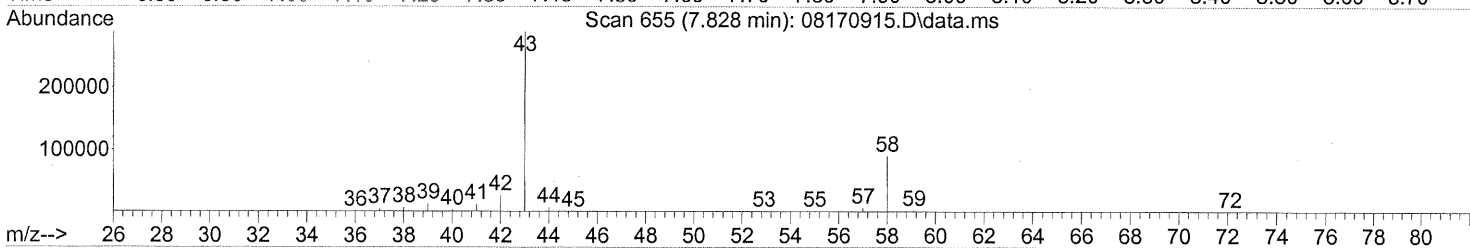
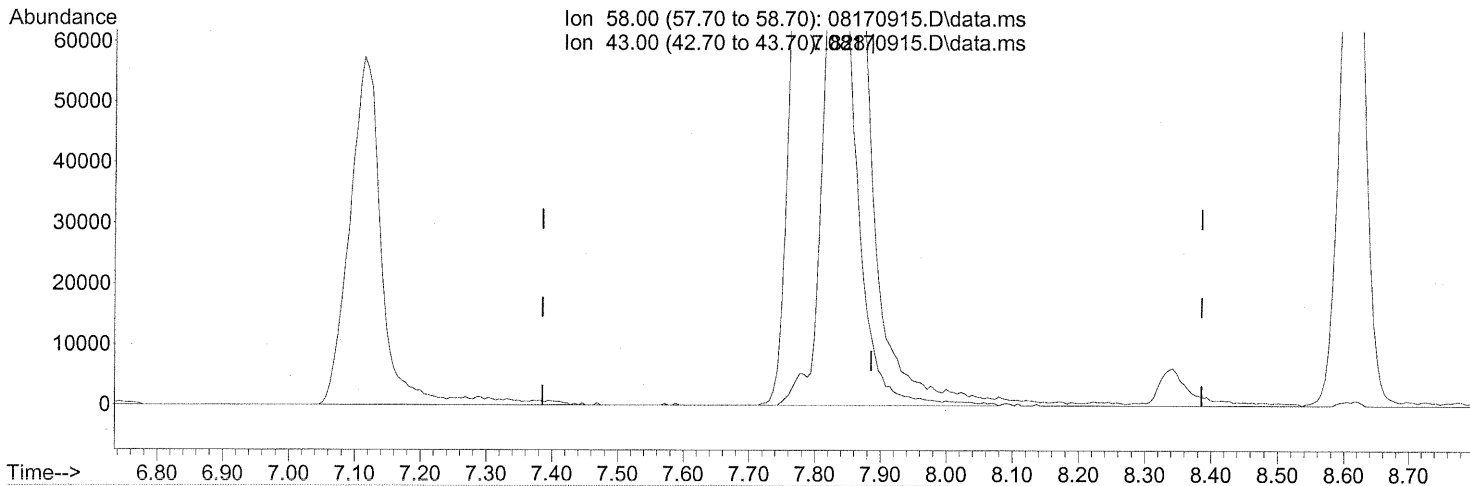
response 16689

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	70.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)
 7.828min (-0.058) 34.17ng
 response 295035

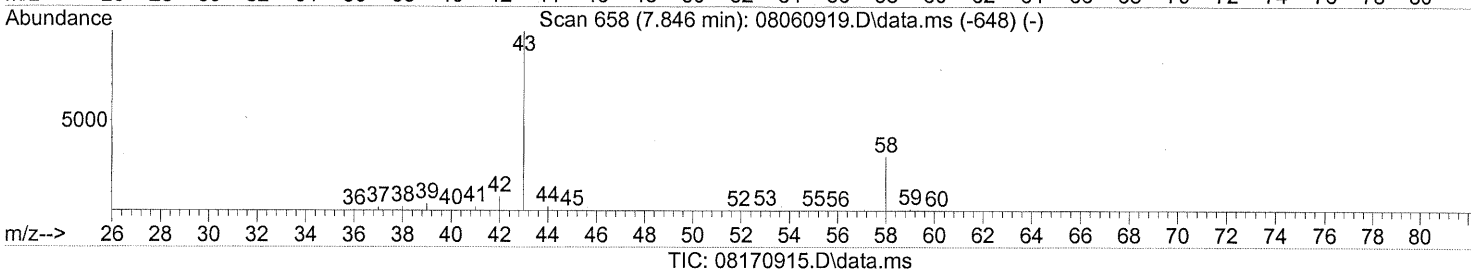
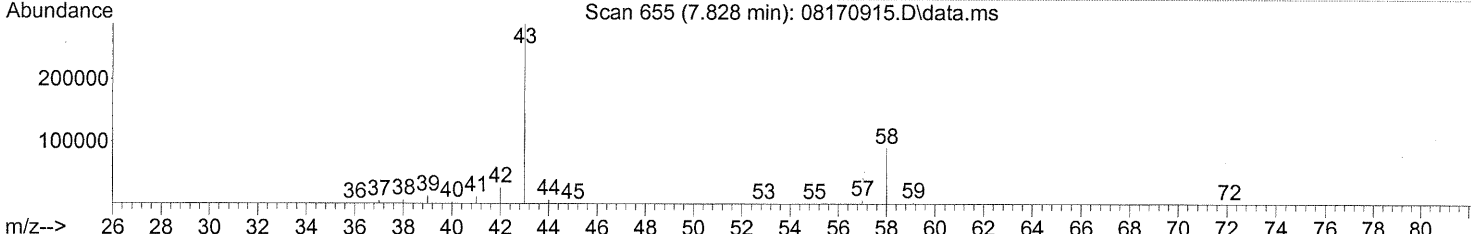
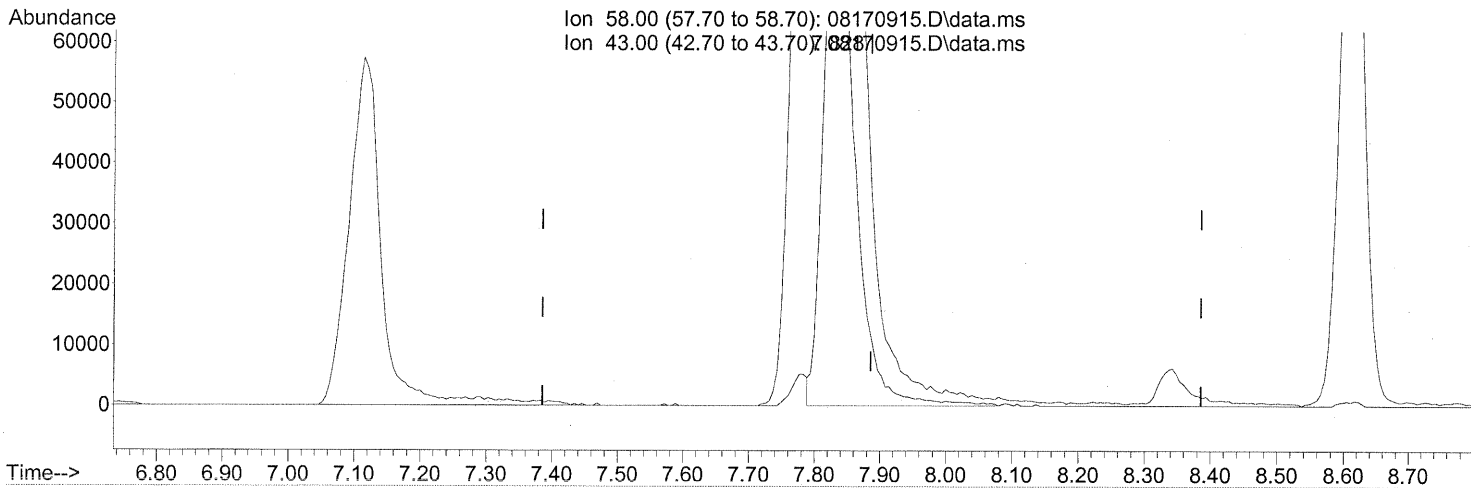
Ion	Exp%	Act%
58.00	100	100
43.00	340.40	320.93
0.00	0.00	0.00
0.00	0.00	0.00

SM → TG

Quantitation Report (Qedit)

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 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.828min (-0.058) 33.16ng m

response 286337

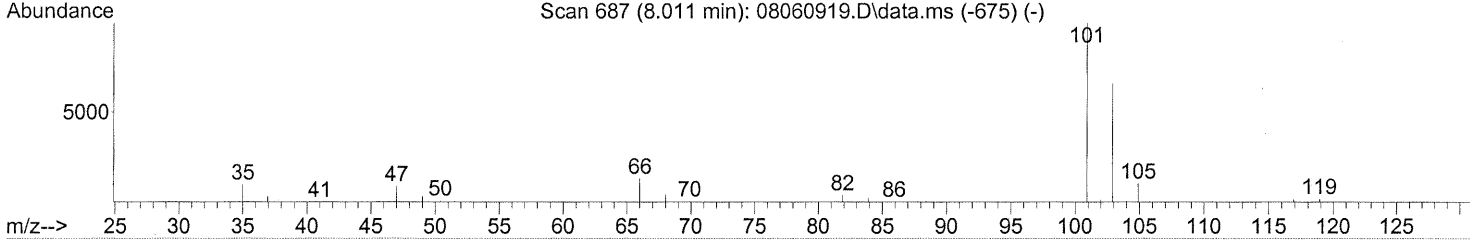
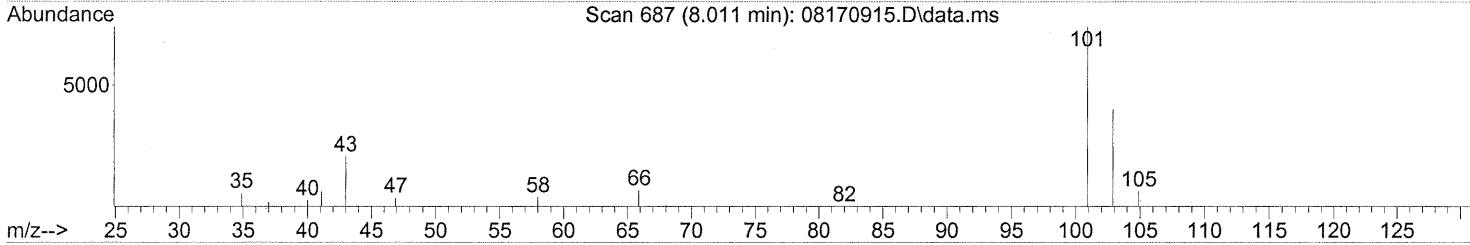
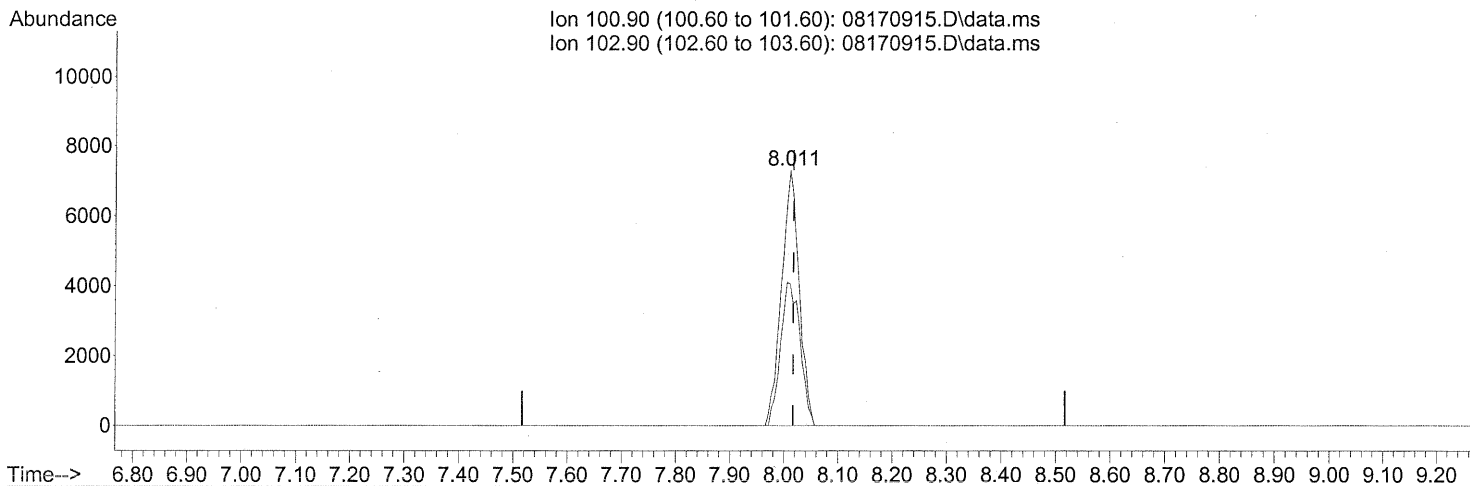
Ion	Exp%	Act%
58.00	100	100
43.00	340.40	330.68
0.00	0.00	0.00
0.00	0.00	0.00

SH → IC
 W 8/20/09
 Lem 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.011min (-0.006) 0.78ng

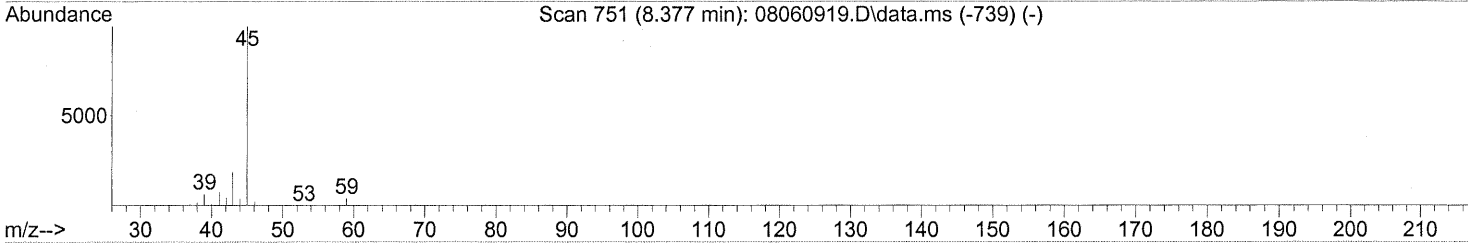
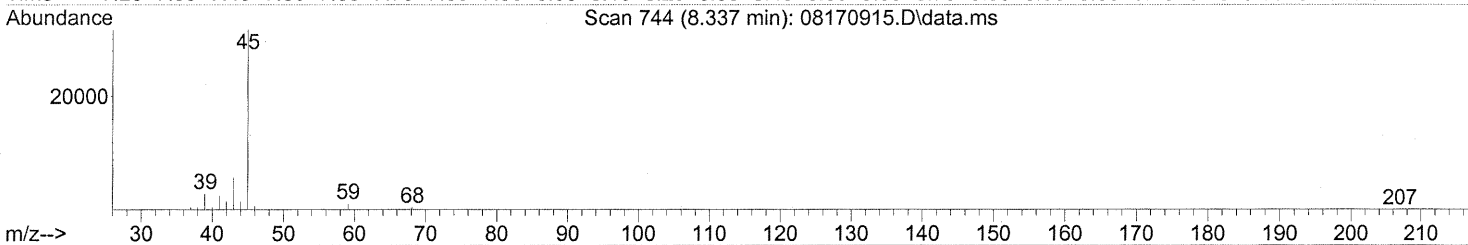
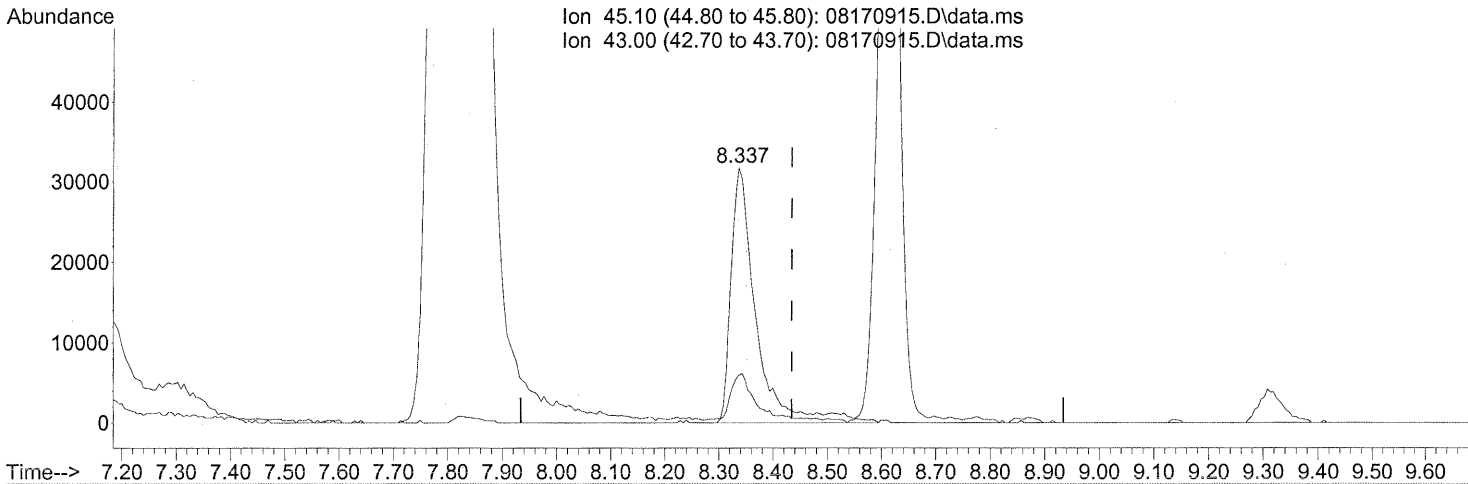
response 16734

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	61.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.337min (-0.097) 2.98ng

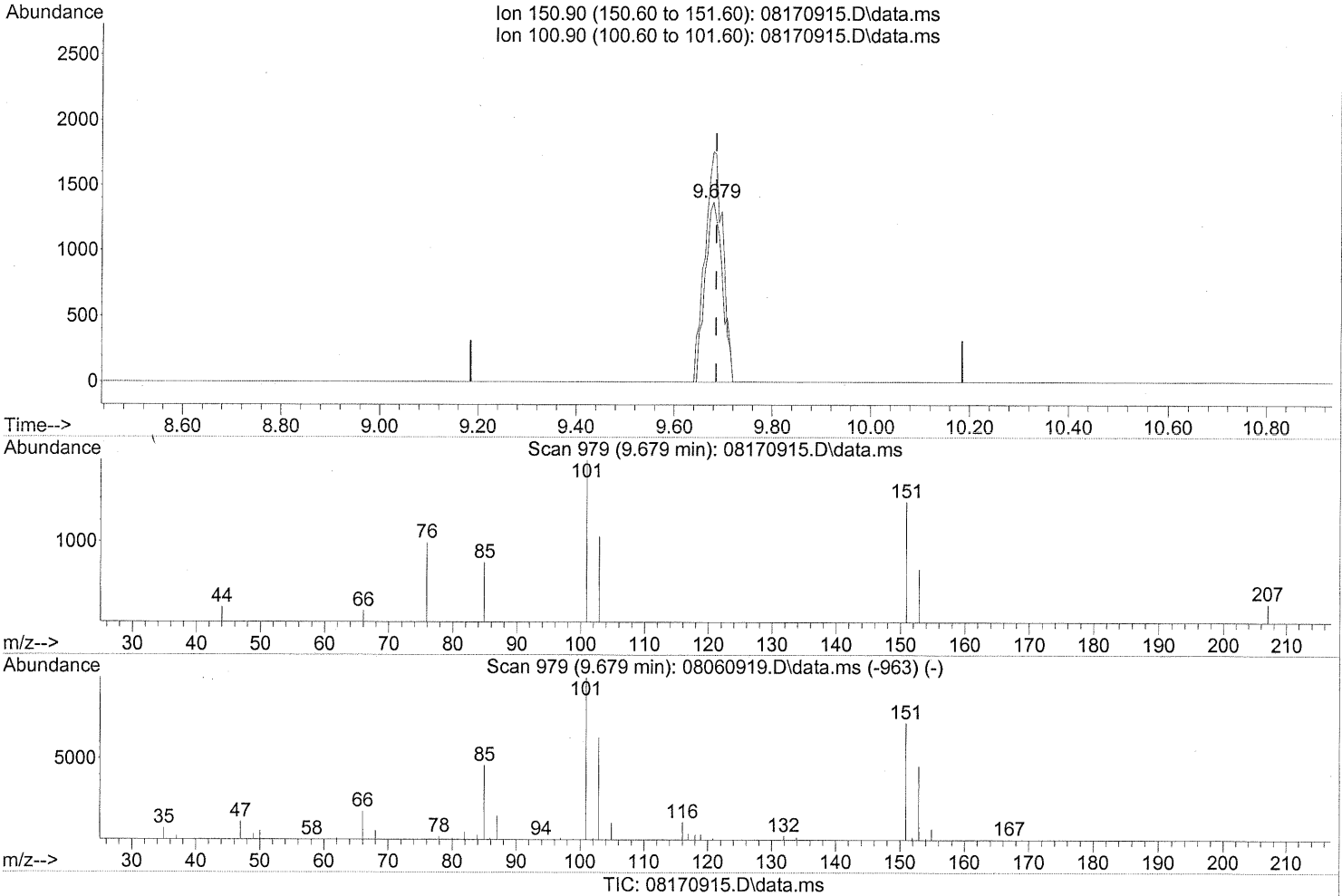
response 101144

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	22.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170915.D
Acq On : 17 Aug 2009 15:13
Operator : WA
Sample : P0902721-001 (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.43ng

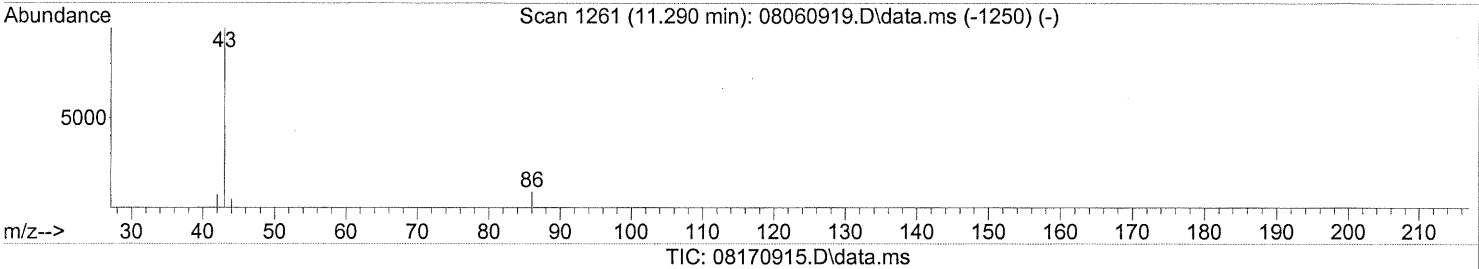
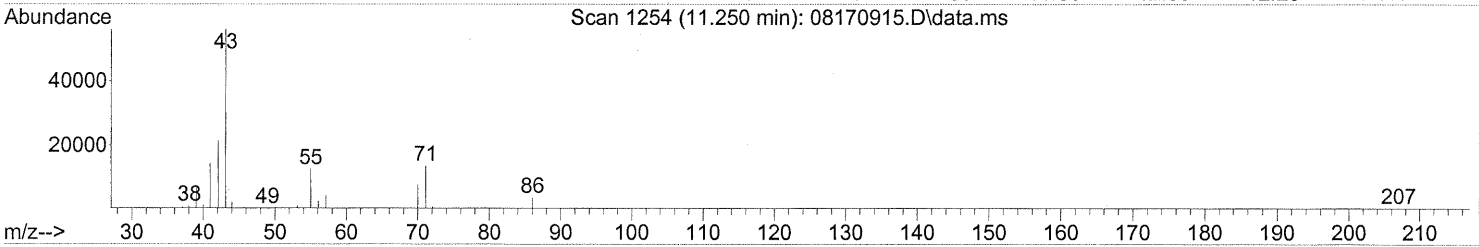
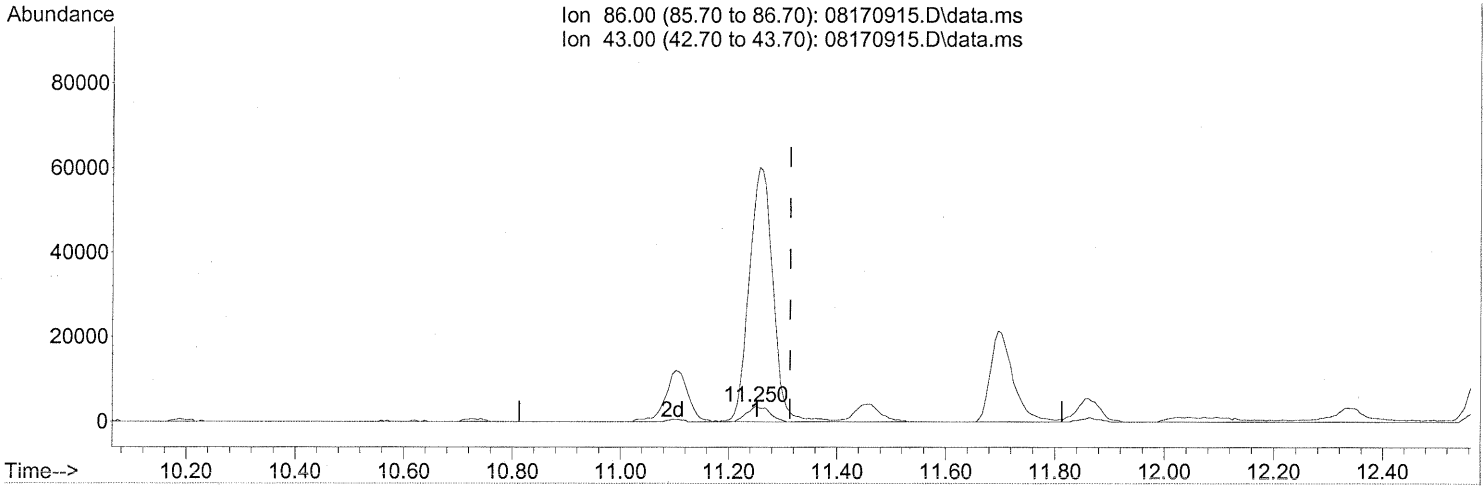
response 3349

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	132.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.250min (-0.063) 5.91ng

FP in 8/20/09
com 8/21/09

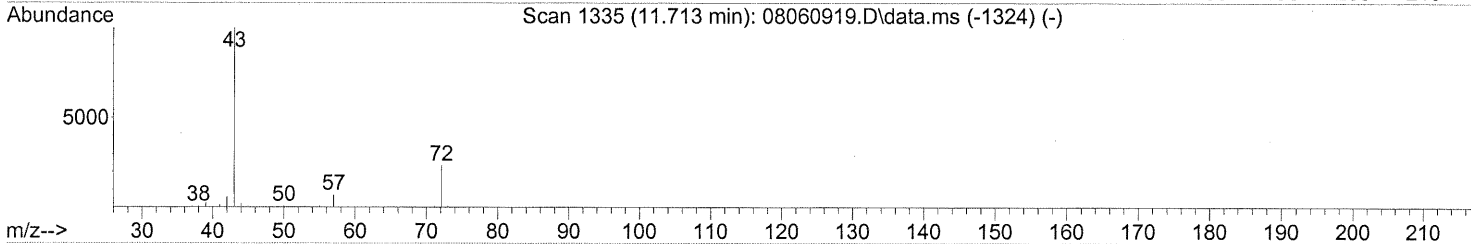
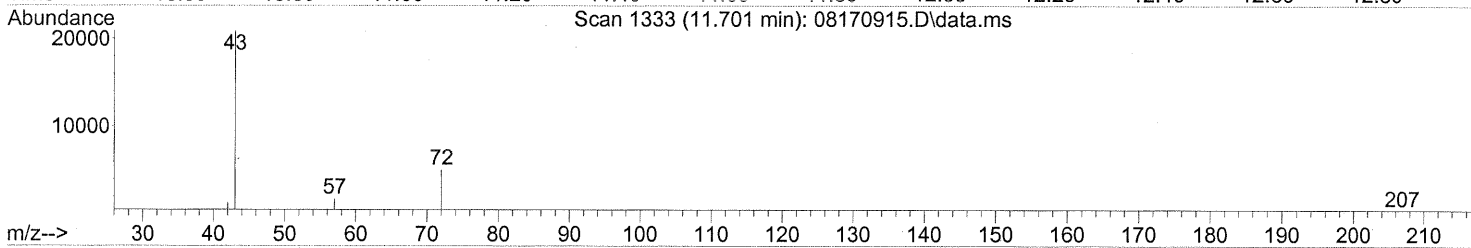
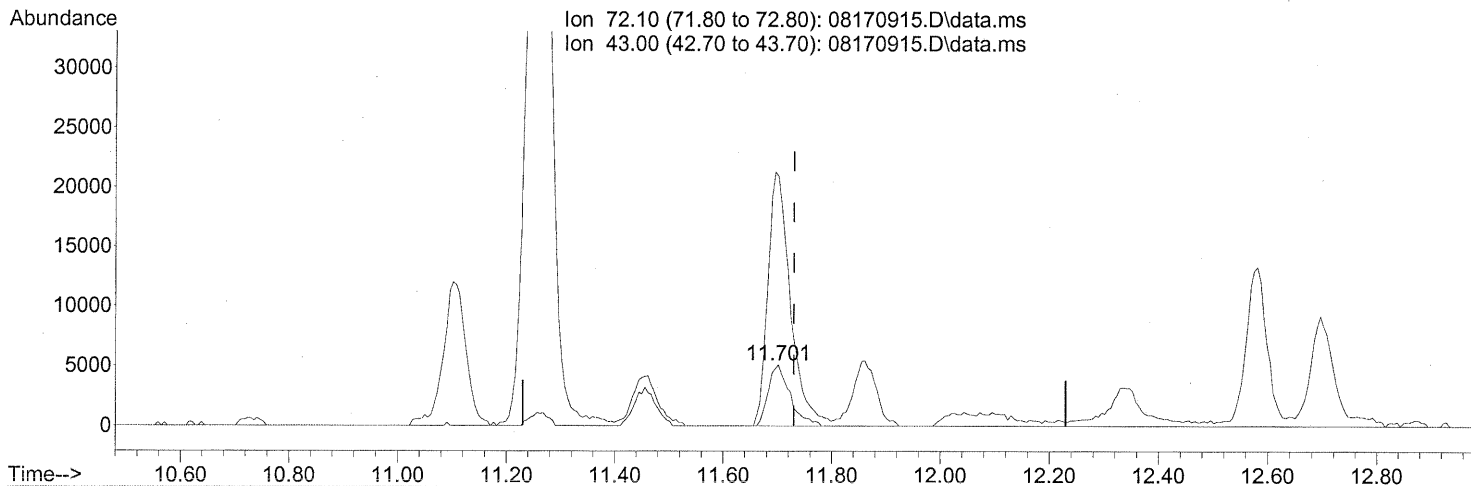
response 10376

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1759.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(27) 2-Butanone (MEK) (T)

11.701min (-0.029) 1.83ng

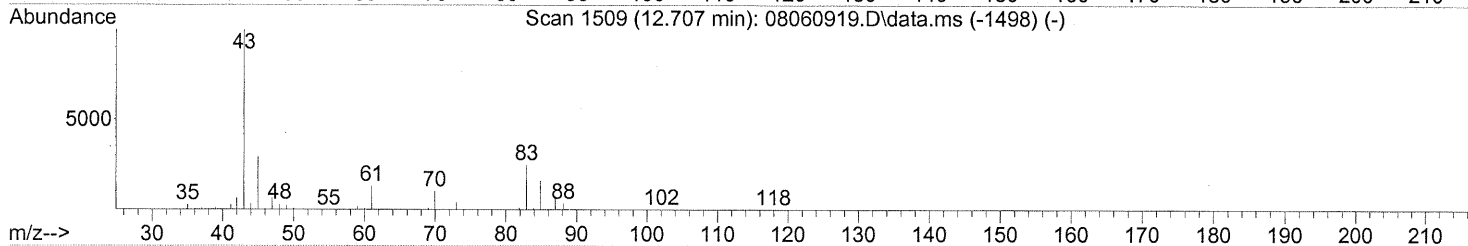
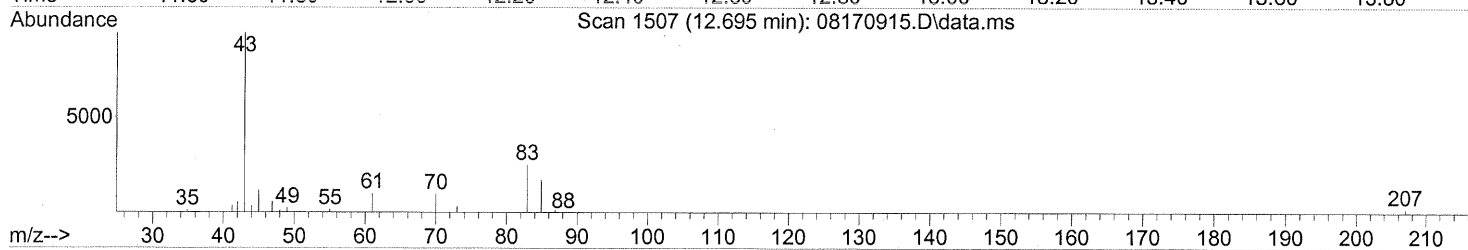
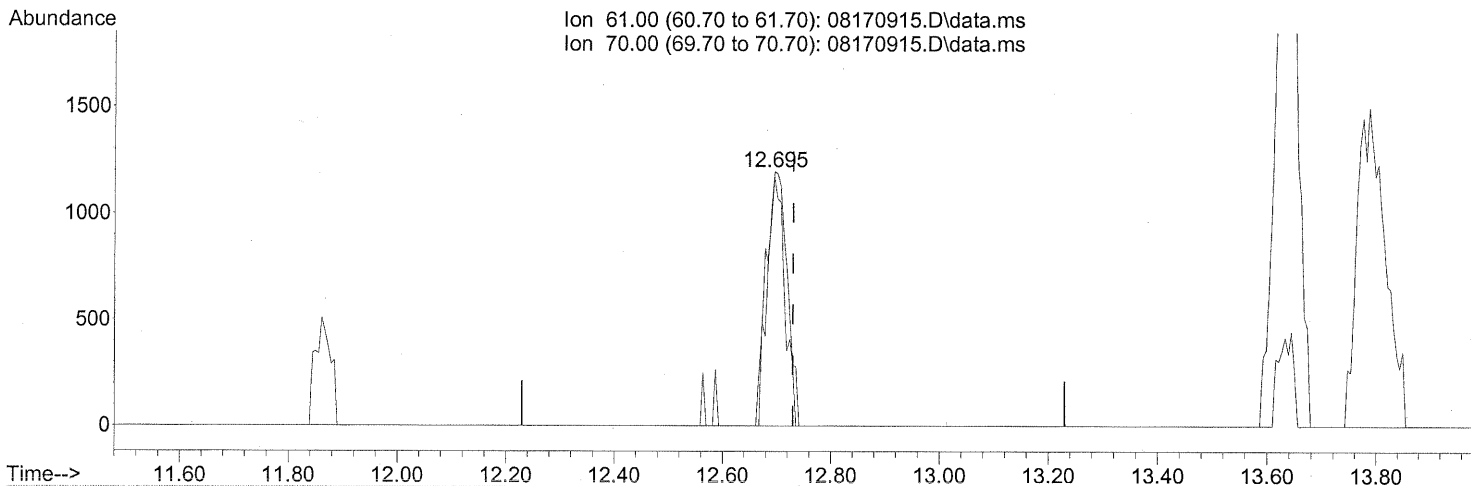
response 14239

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	434.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(30) Ethyl Acetate (T)

12.695min (-0.034) 0.81ng

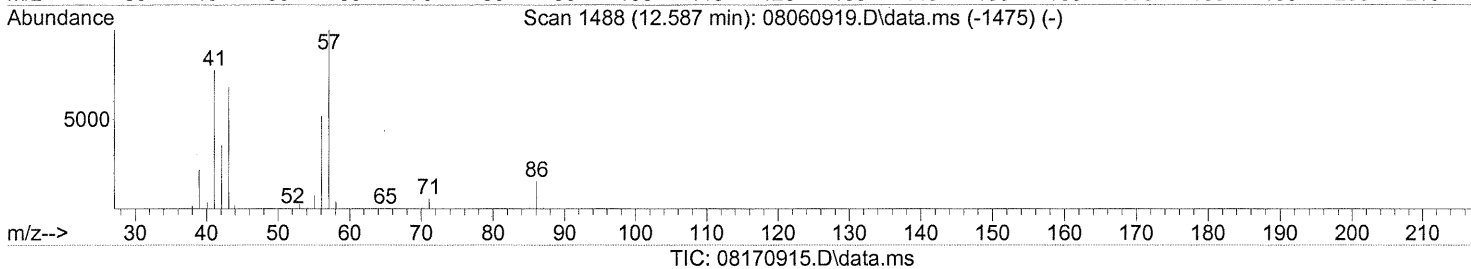
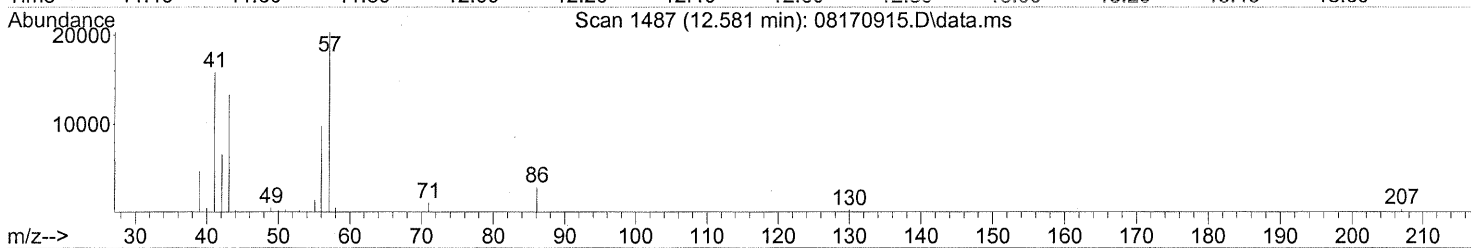
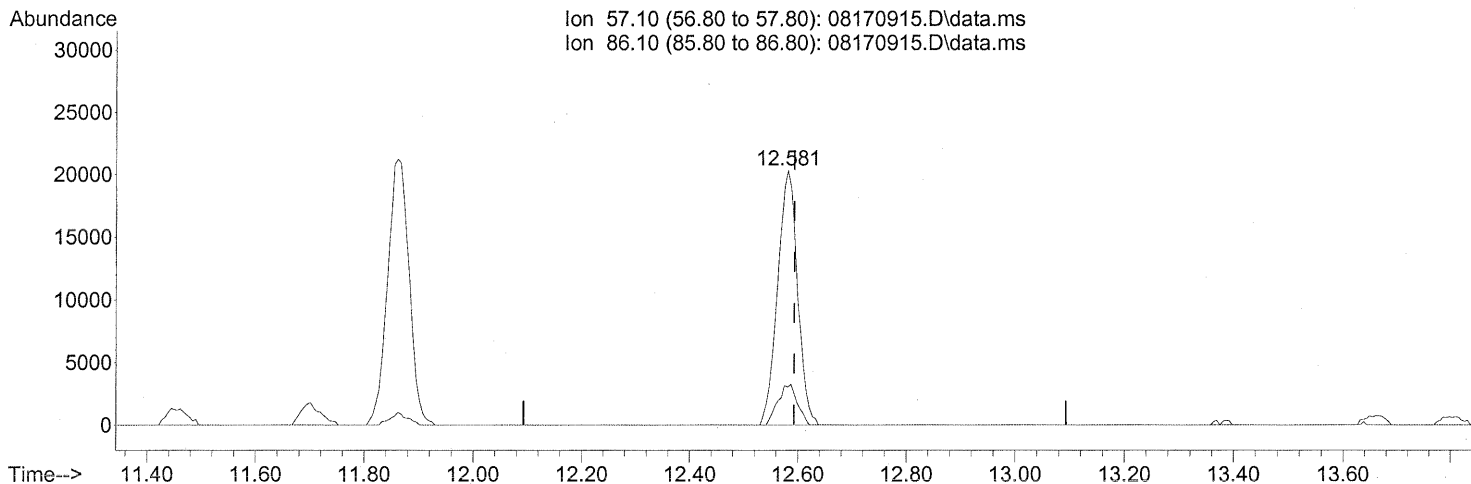
response 3285

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	80.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



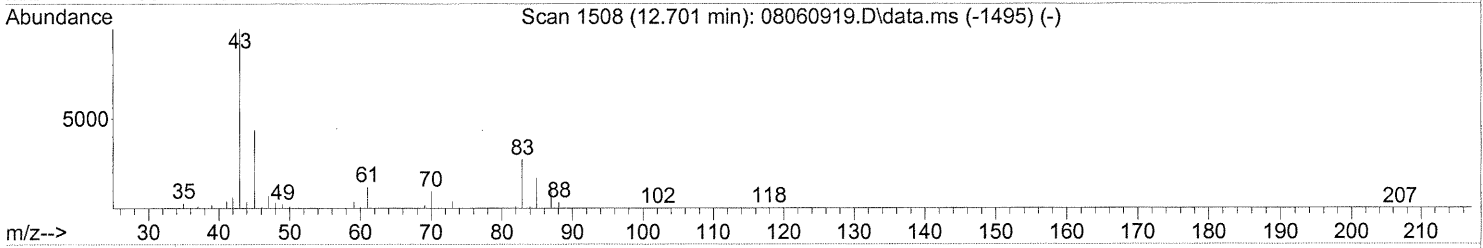
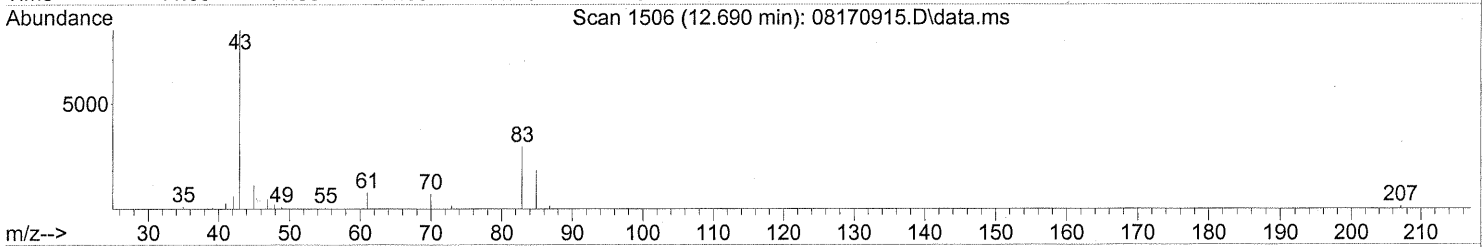
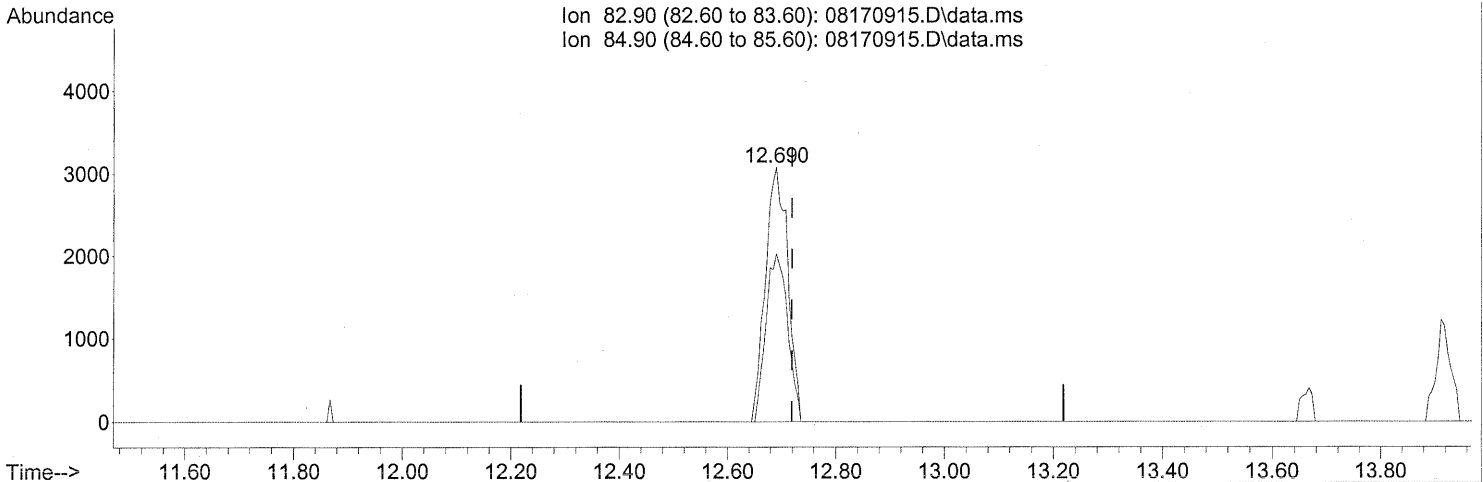
(31) n-Hexane (T)
 12.581min (-0.011) 2.49ng
 response 51661

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(32) Chloroform (T)

12.690min (-0.029) 0.48ng

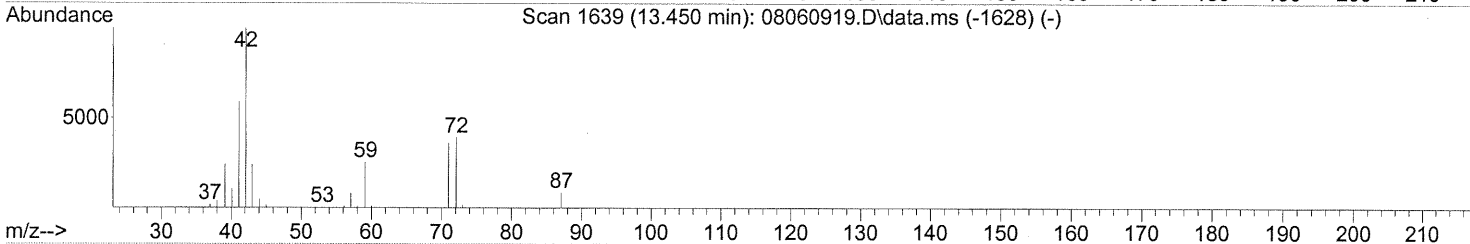
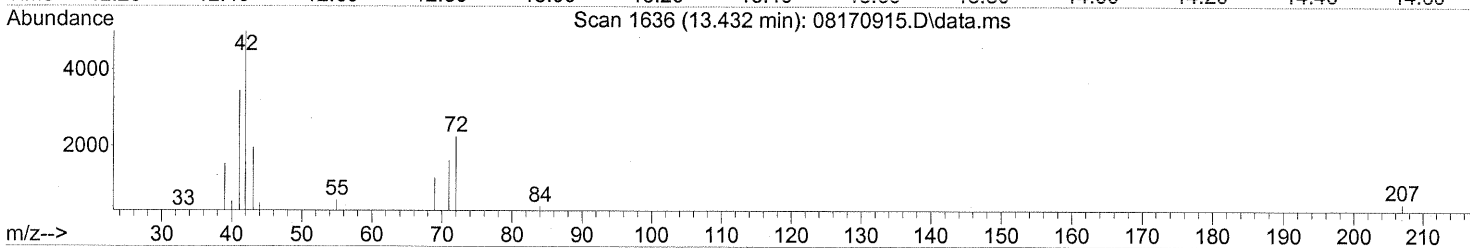
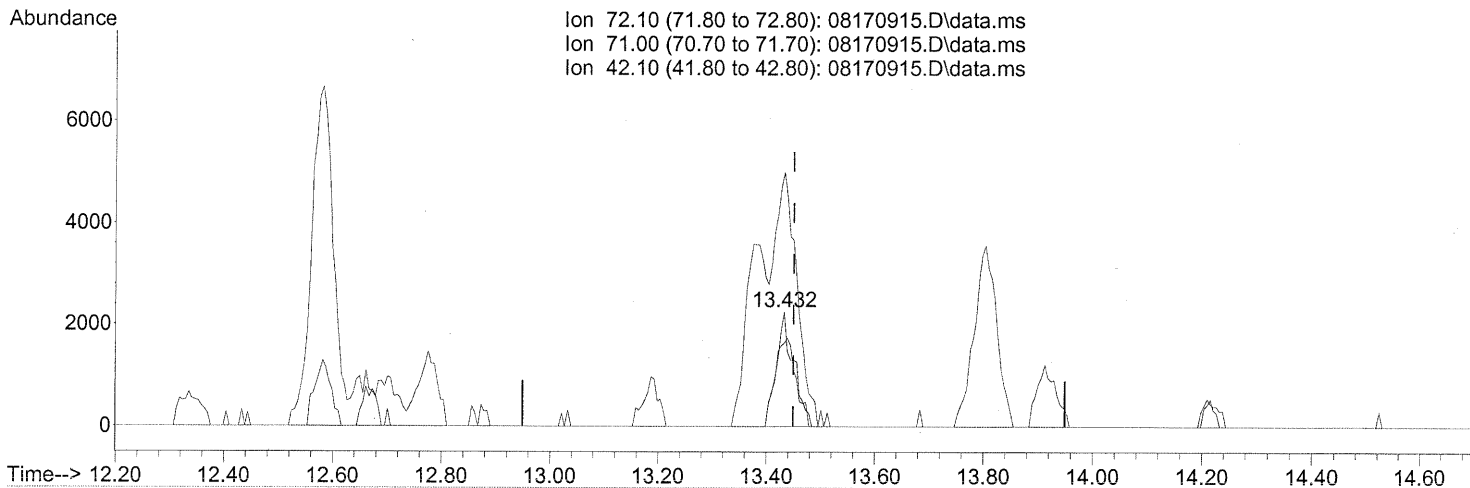
response 8800

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	64.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.432min (-0.017) 0.60ng

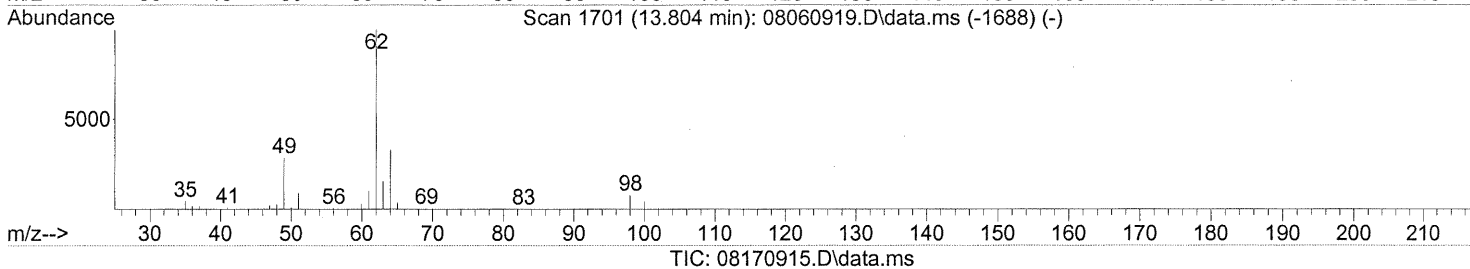
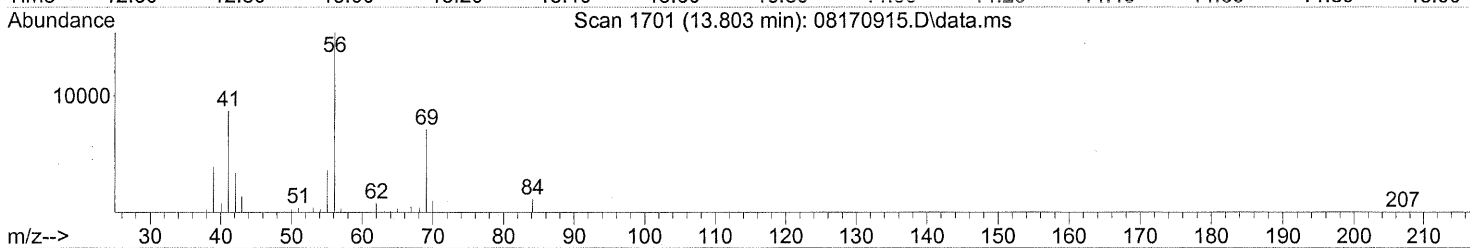
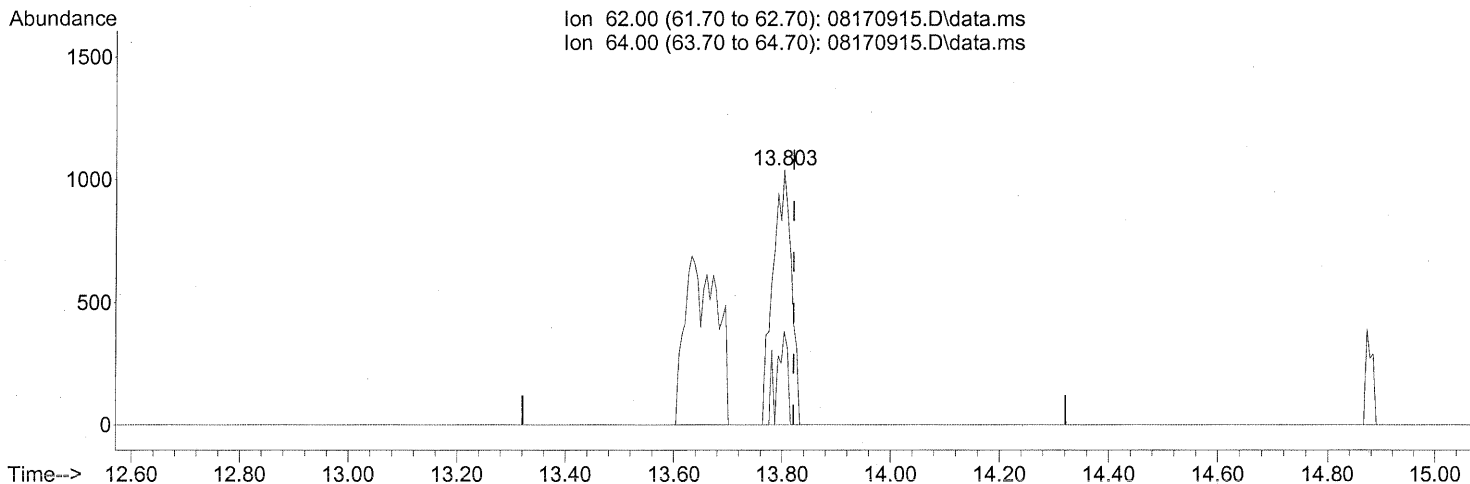
response 4960

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	93.21
42.10	253.40	272.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



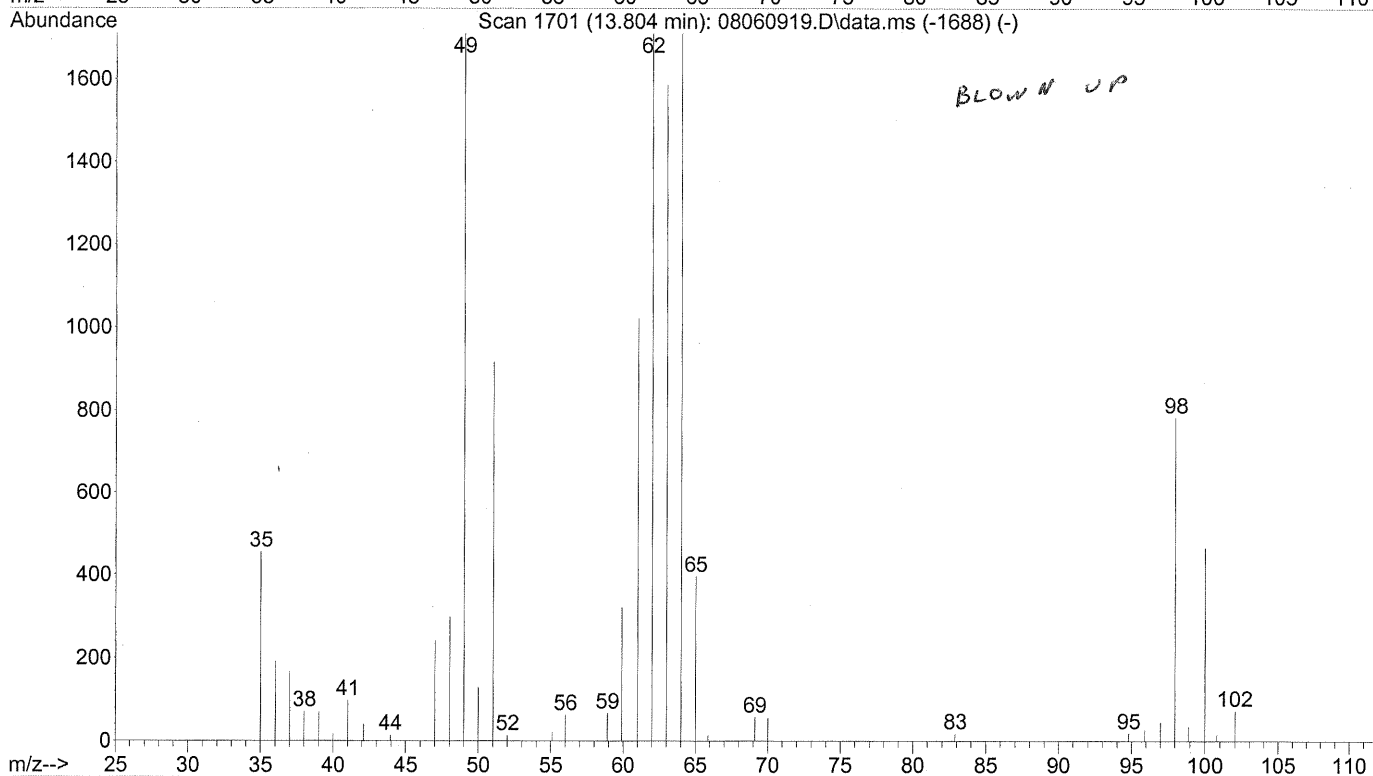
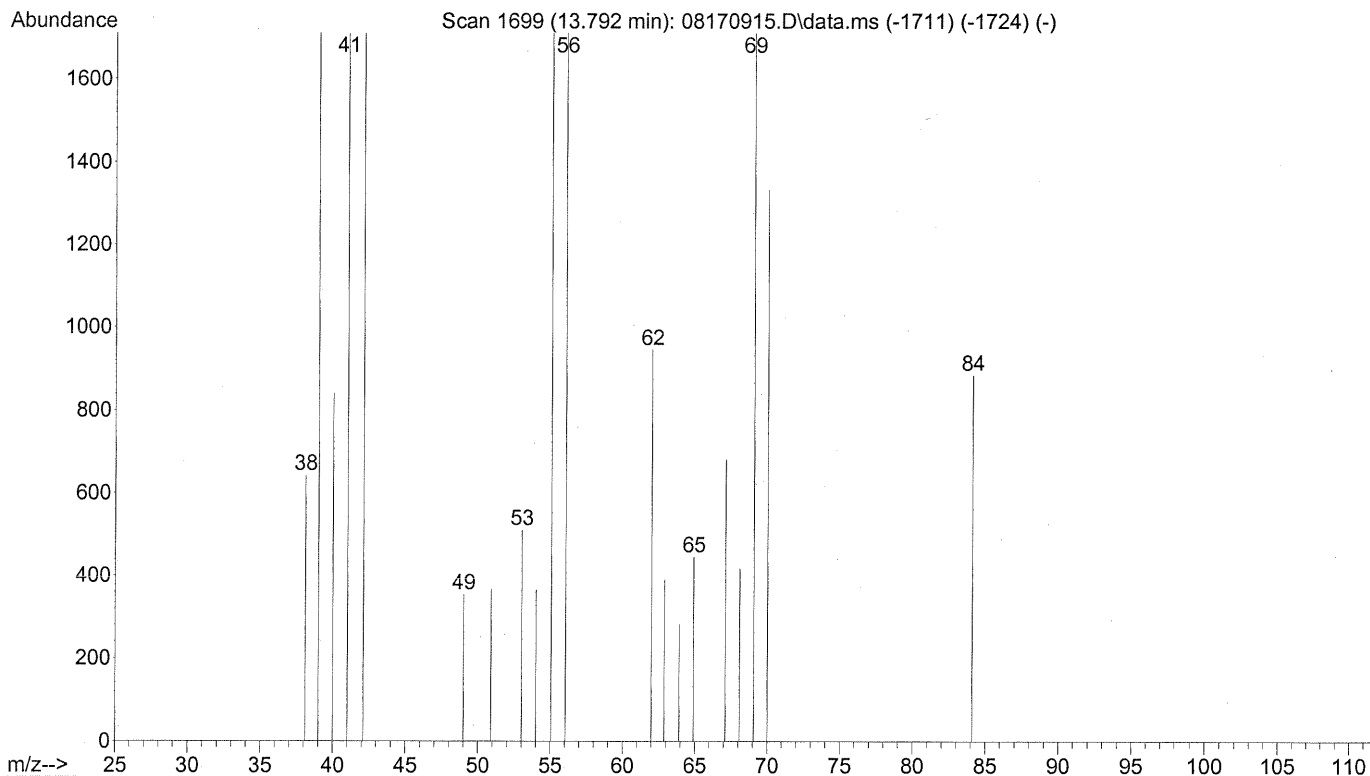
(36) 1,2-Dichloroethane (T)

13.803min (-0.017) 0.15ng

response 2462

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	17.14
0.00	0.00	0.00
0.00	0.00	0.00

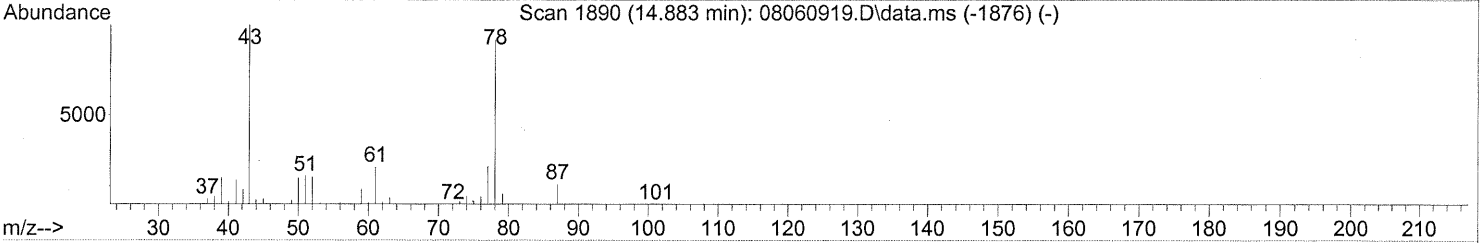
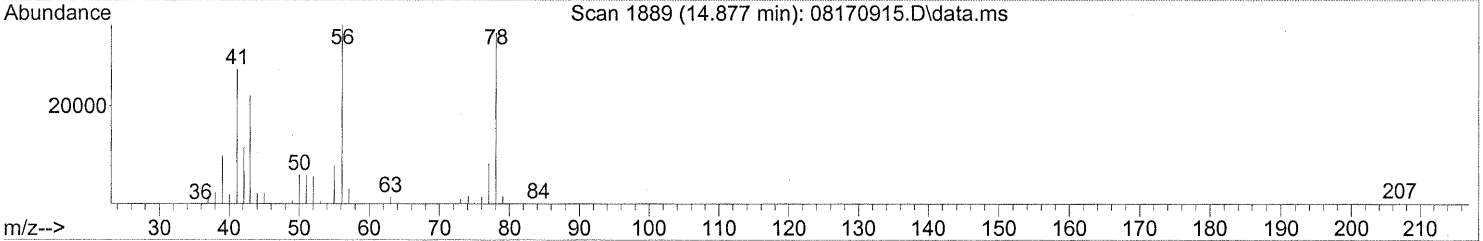
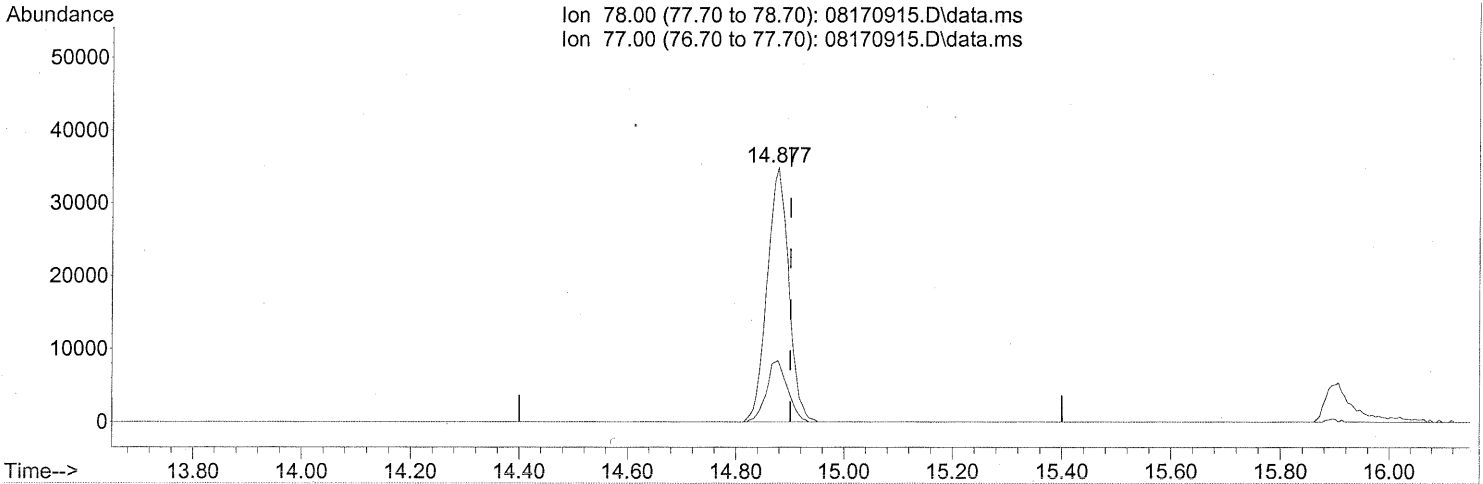
File :J:\MS13\DATA\2009_08\17\08170915.D
Operator : WA
Acquired : 17 Aug 2009 15:13 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0902721-001 (1000mL)
Misc Info : Env. Health & Engineering 100214
Vial Number: 5



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(41) Benzene (T)

14.877min (-0.023) 2.07ng

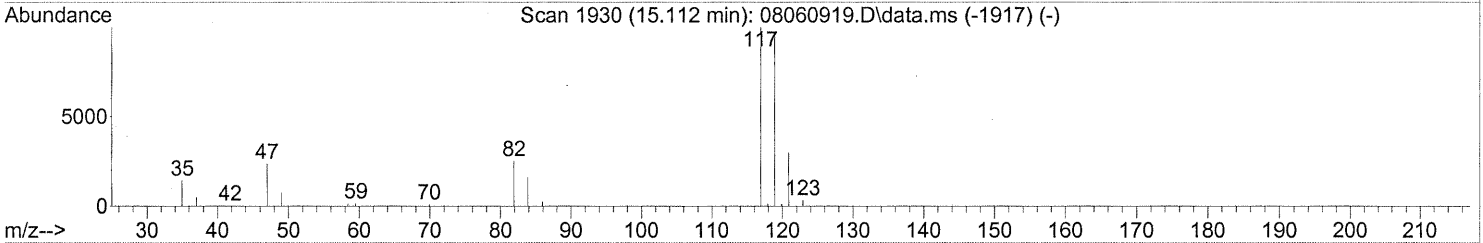
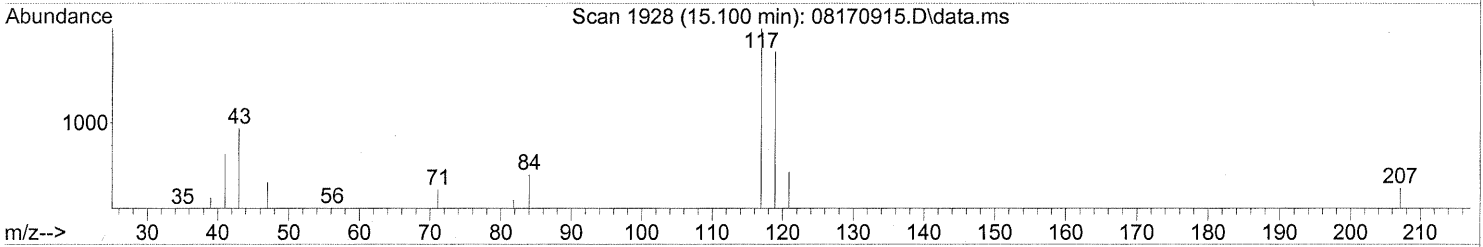
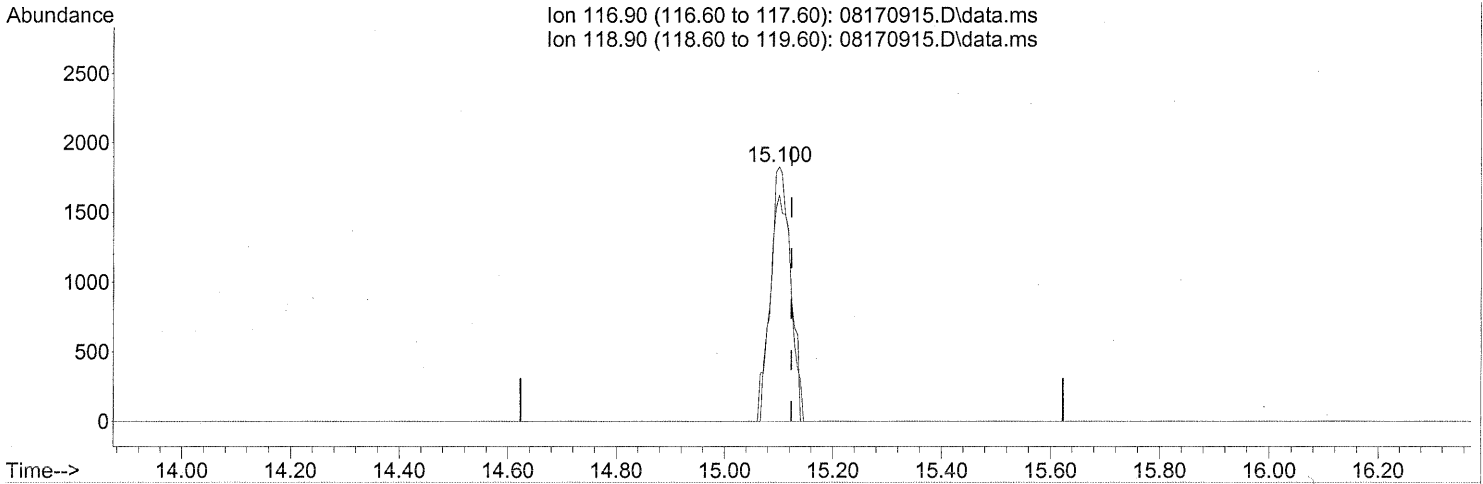
response 96921

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170915.D
Acq On : 17 Aug 2009 15:13
Operator : WA
Sample : P0902721-001 (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08170915.D\data.ms

(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.32ng

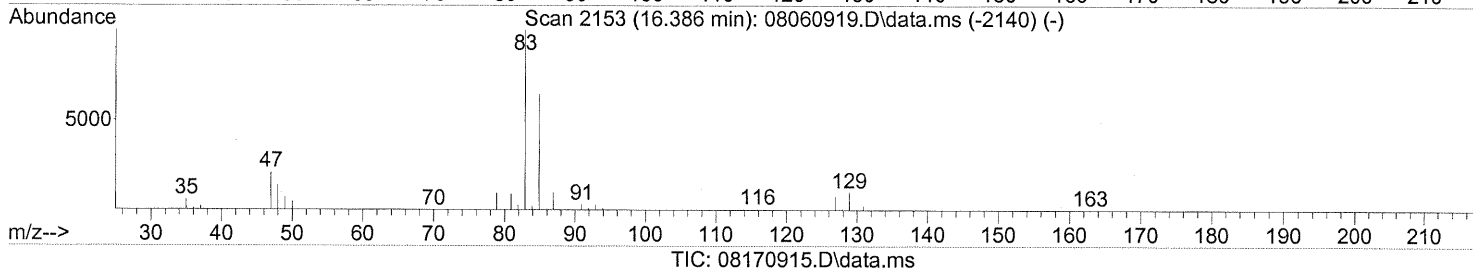
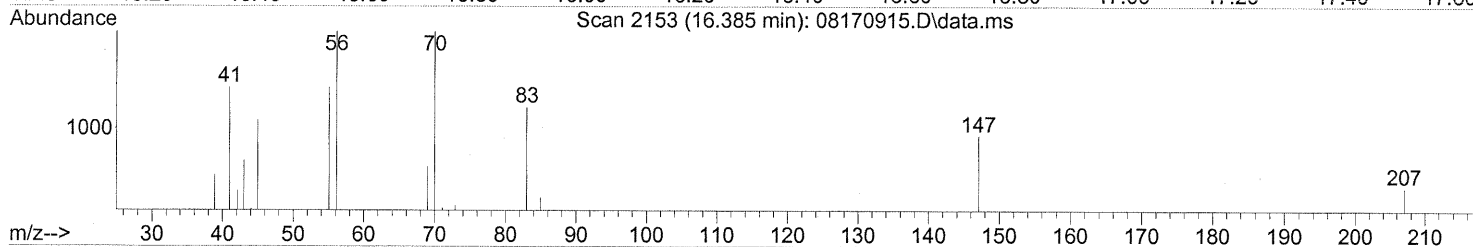
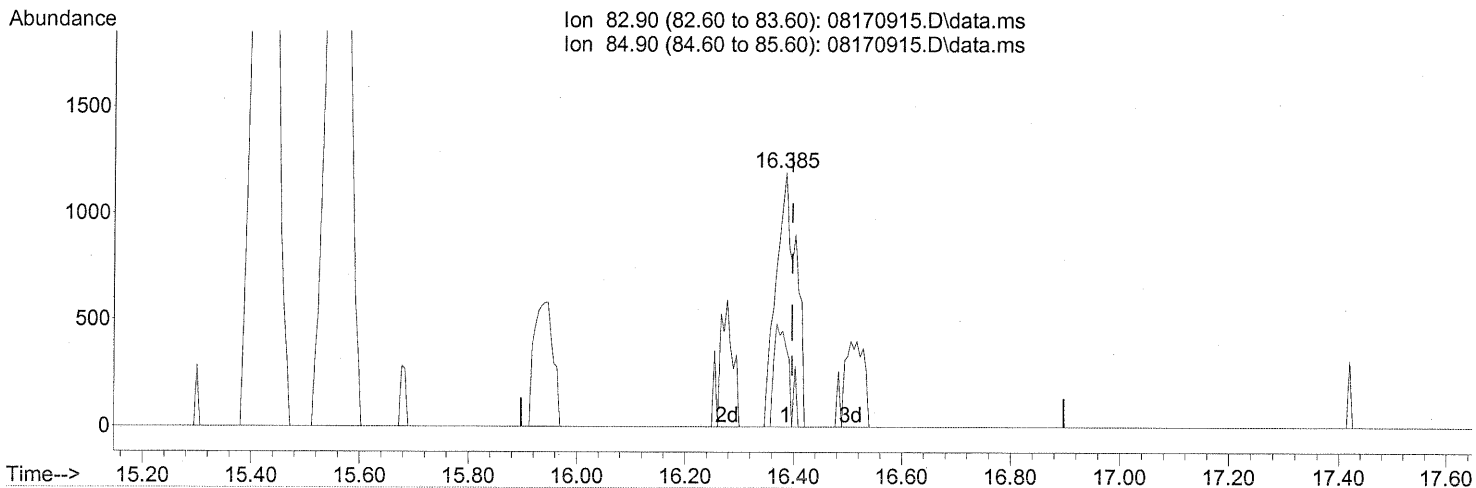
response 4723

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	92.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.385min (-0.012) 0.20ng

response 3056

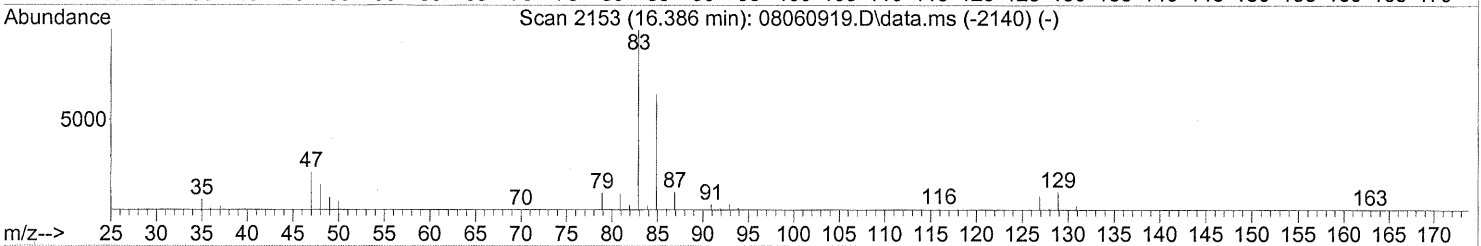
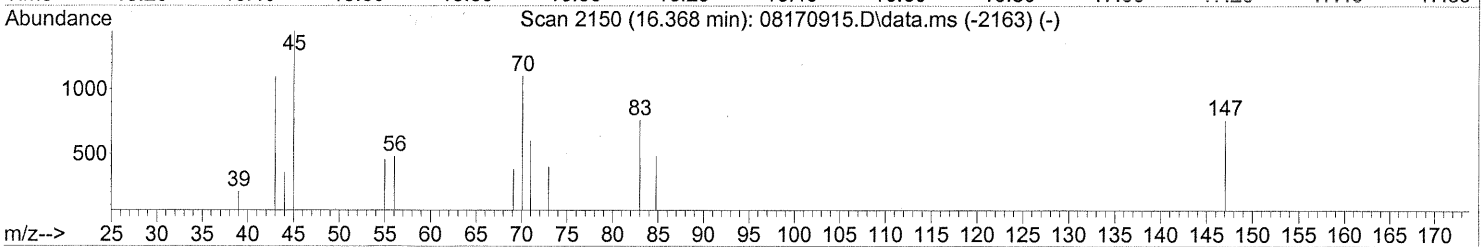
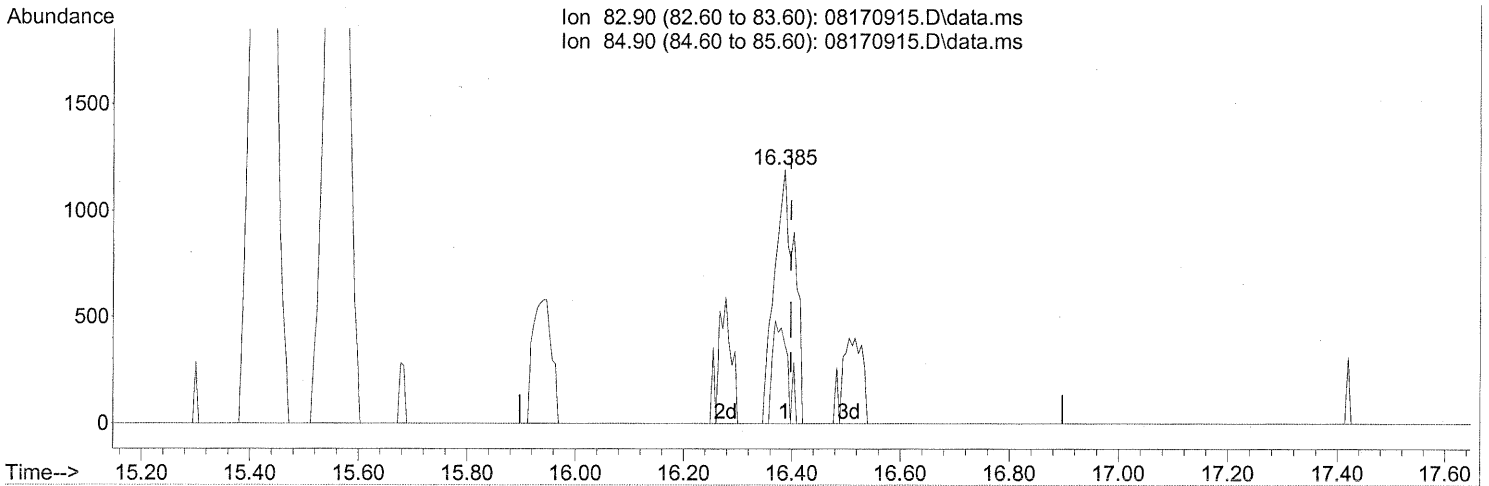
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	29.61#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(46) Bromodichloromethane (T)

16.385min (-0.012) 0.20ng

AFTER SUBTRACTION

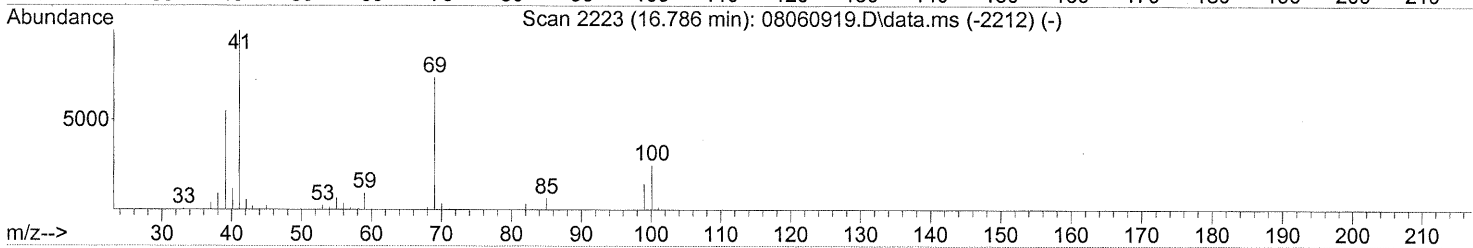
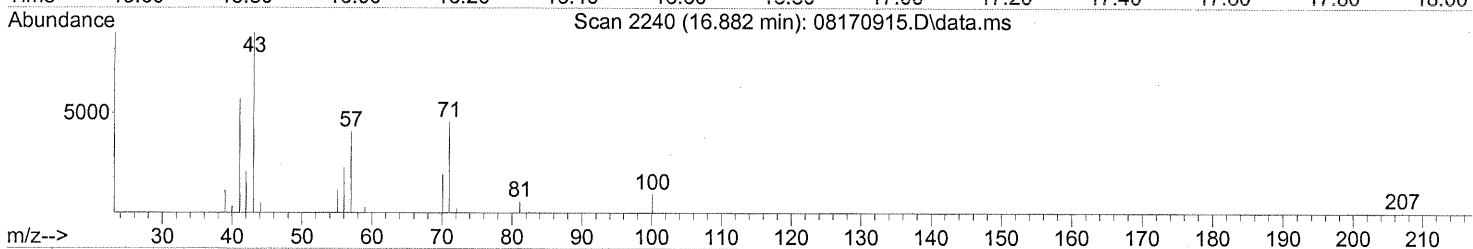
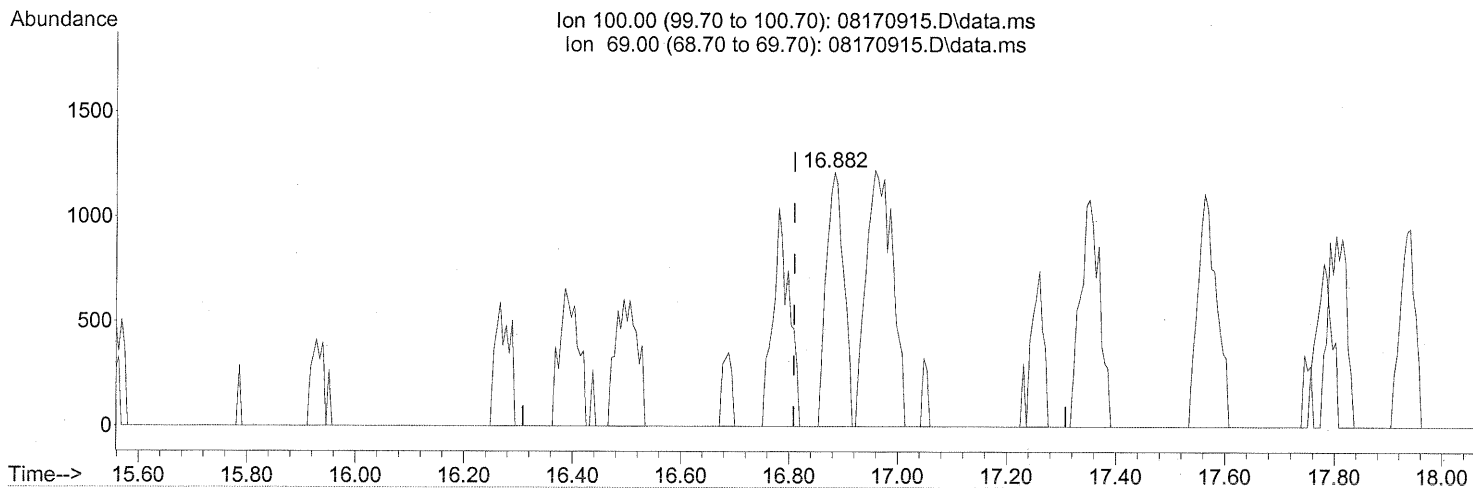
response 3056

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	29.61#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(50) Methyl Methacrylate (T)

16.882min (+0.074) 0.63ng

response 2730

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

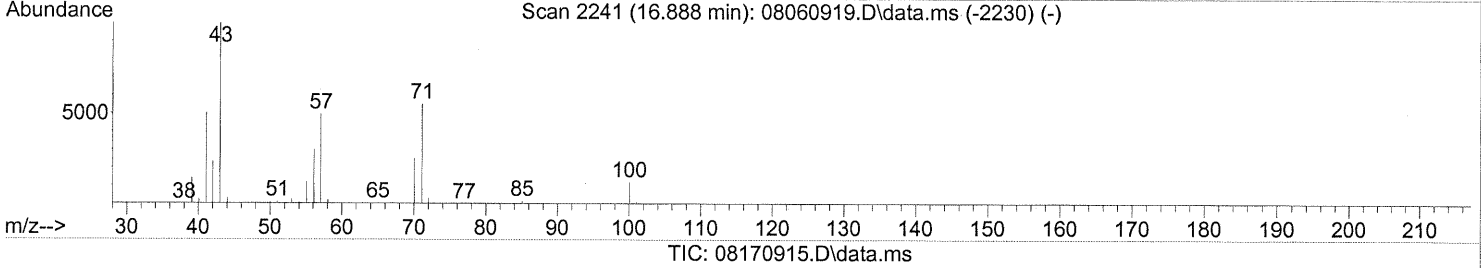
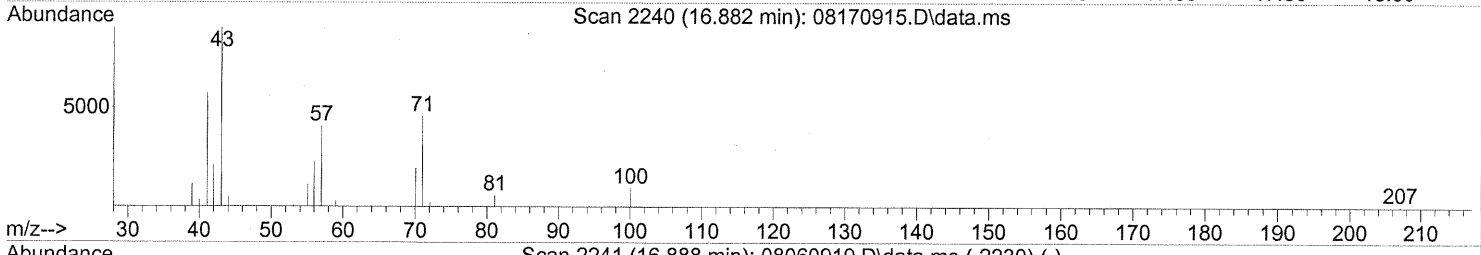
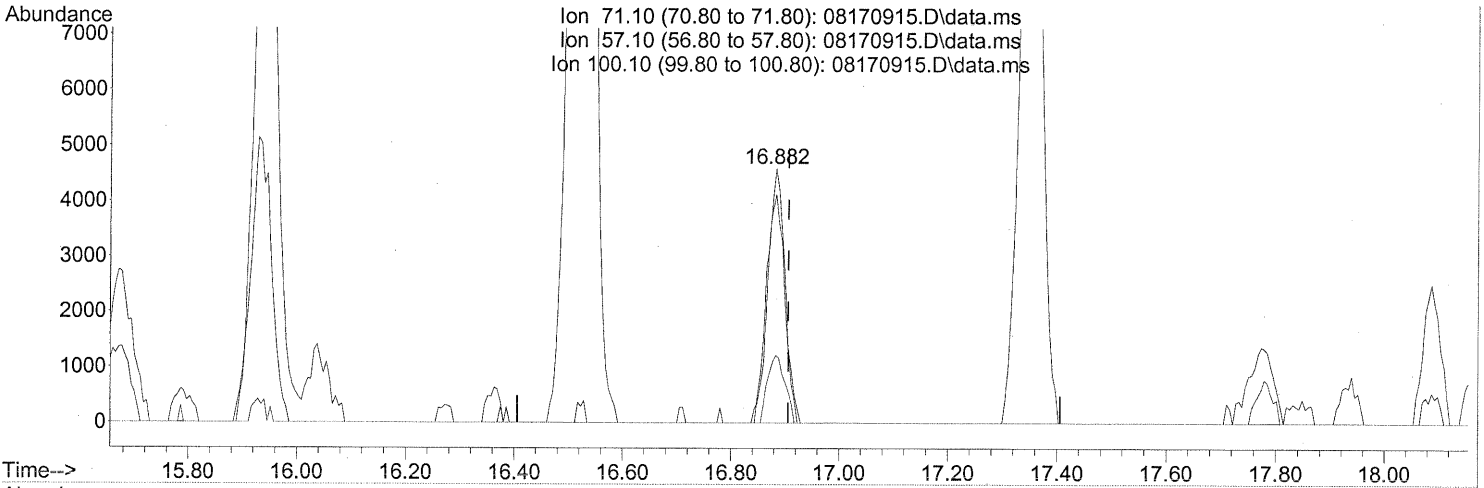
FP in 8/20/09

Em 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(51) n-Heptane (T)

16.882min (-0.023) 0.84ng

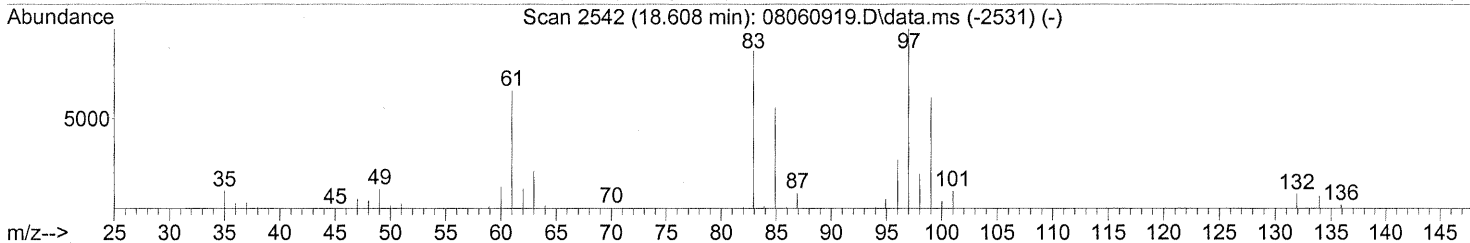
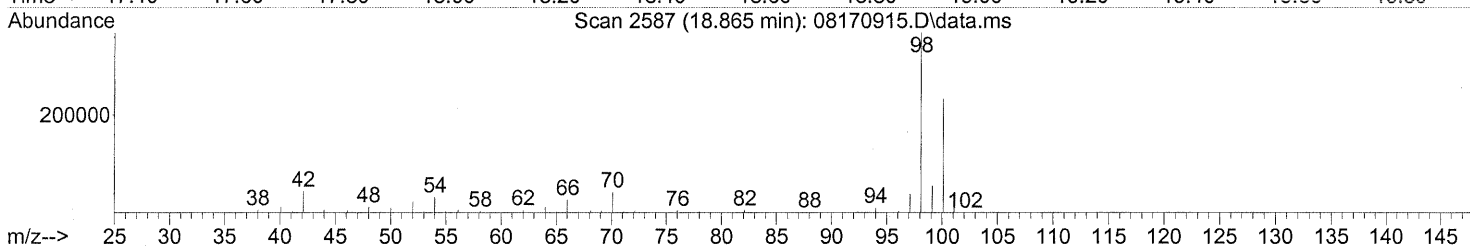
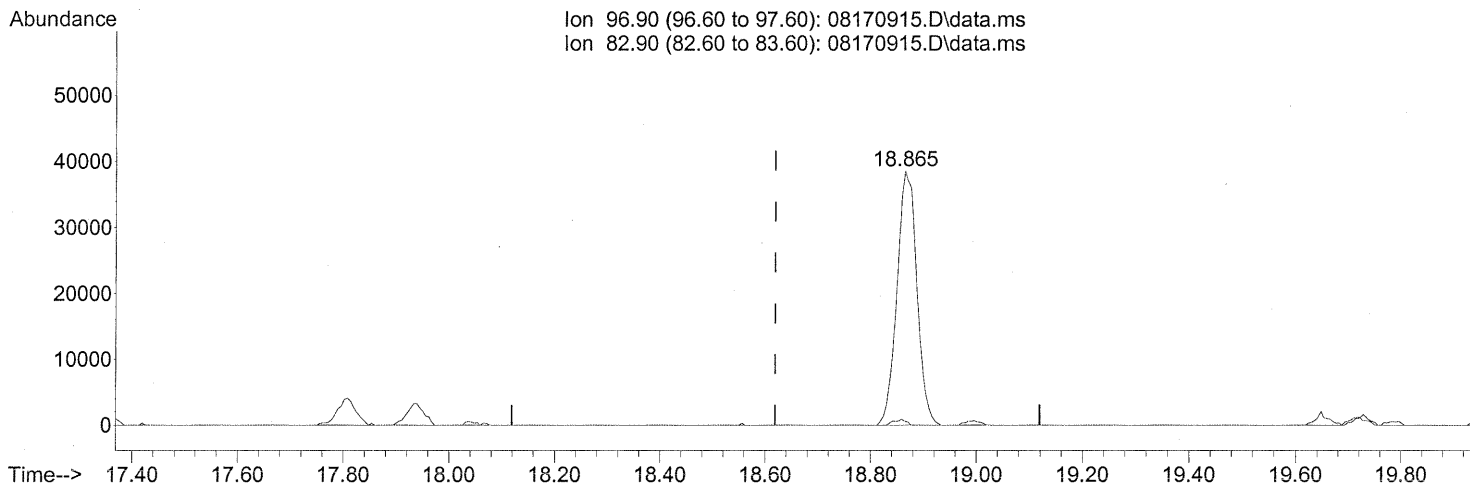
response 10583

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	88.37
100.10	26.40	25.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.79ng

response 100590

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.37#
0.00	0.00	0.00
0.00	0.00	0.00

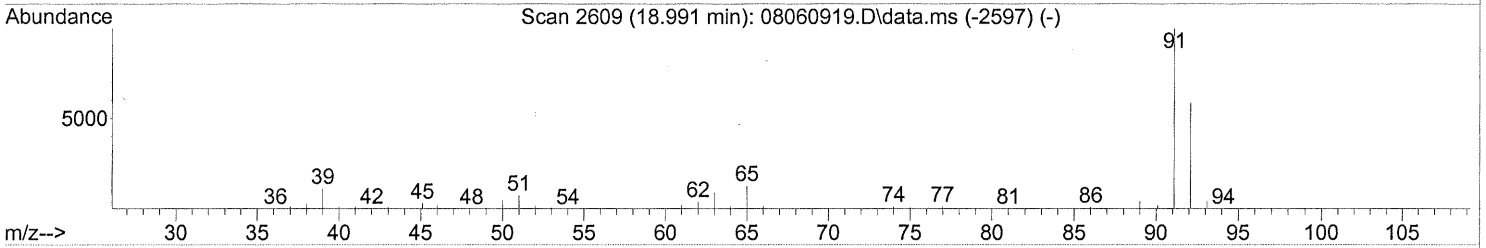
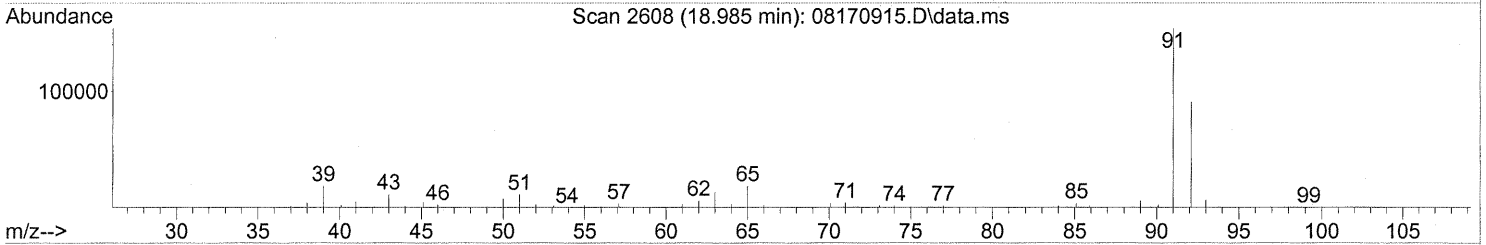
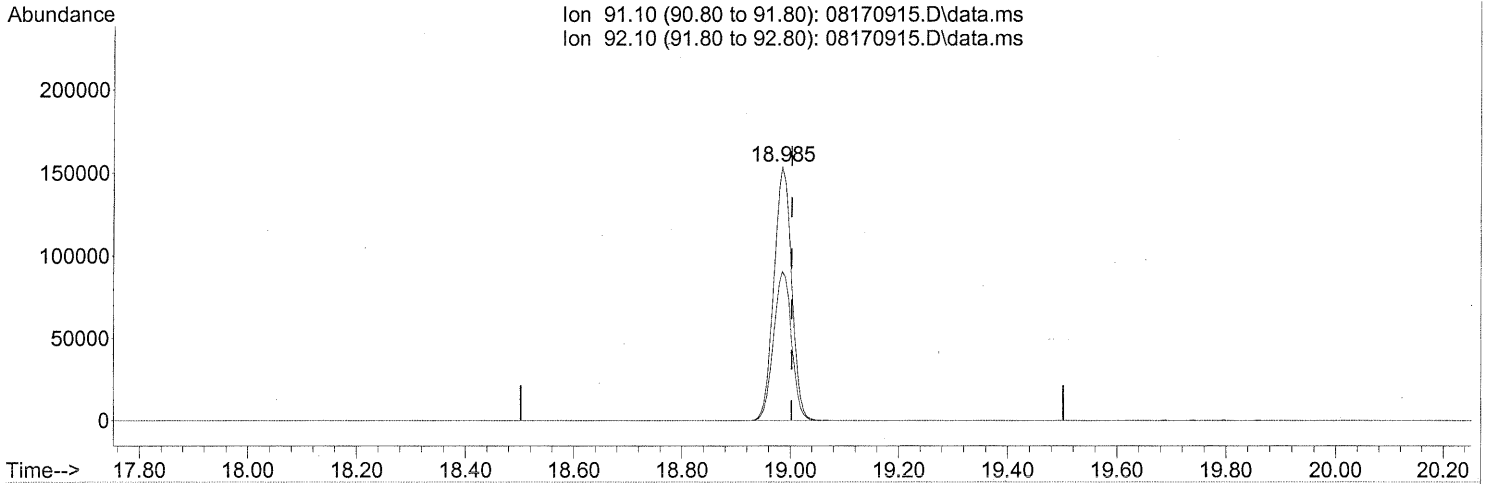
FP in 8/20/09

com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 14:49:50 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

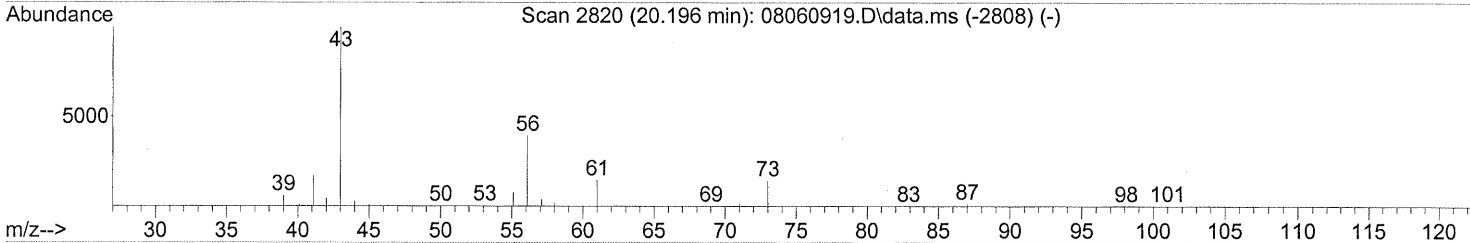
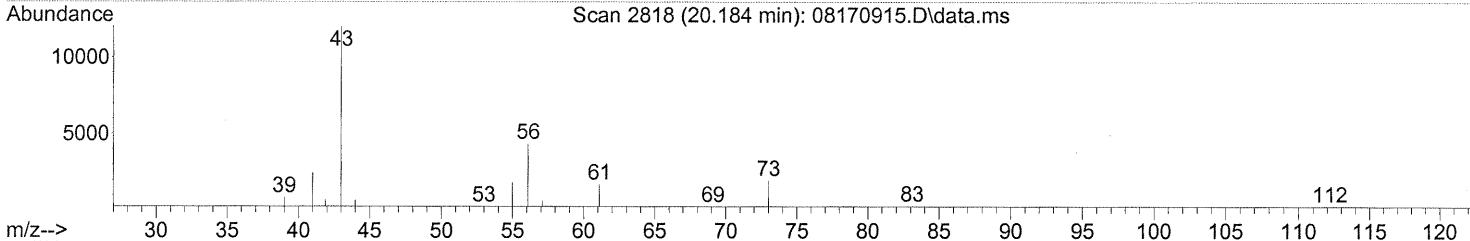
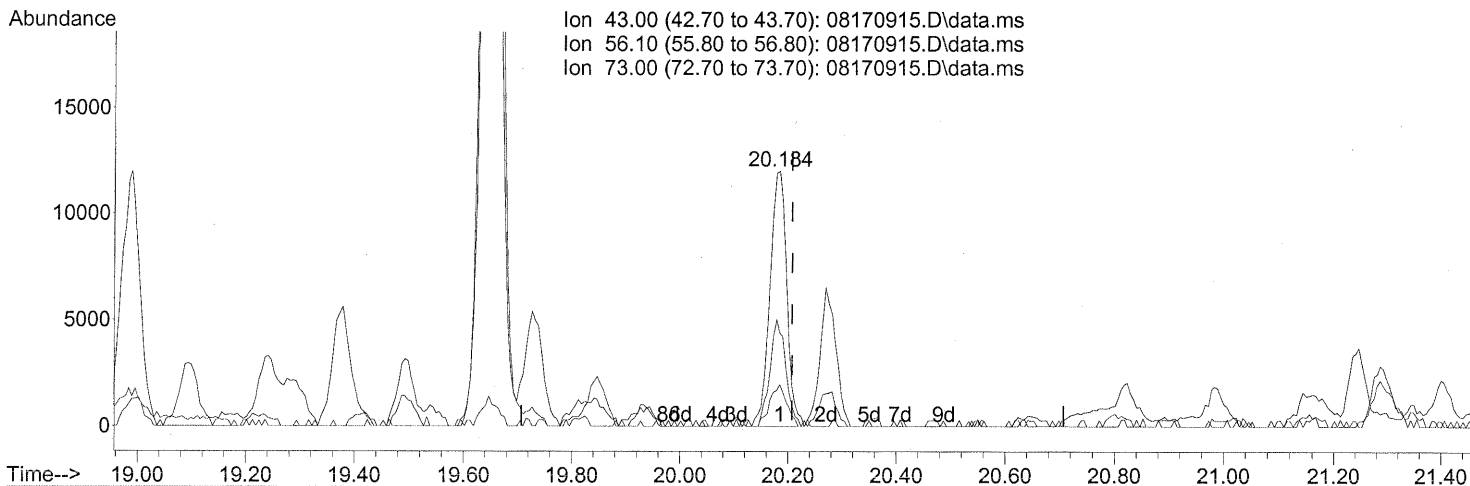
(58) Toluene (T)
 18.985min (-0.017) 7.96ng
 response 350011

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



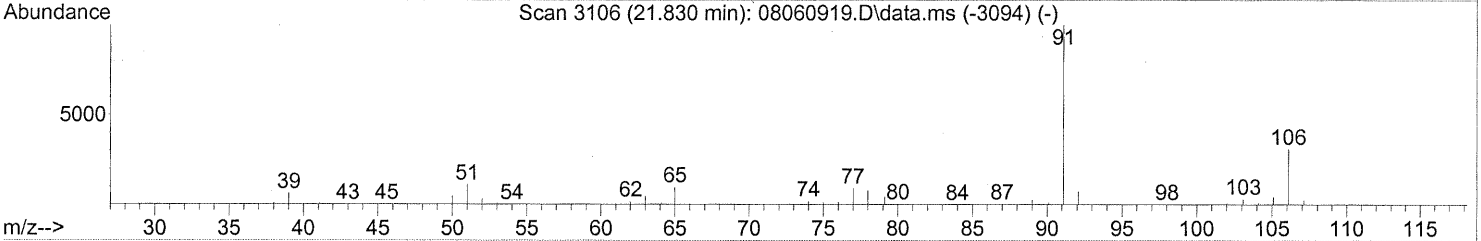
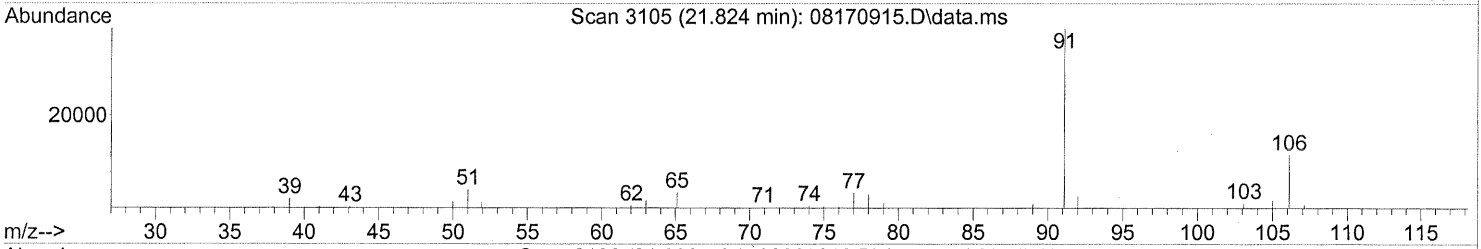
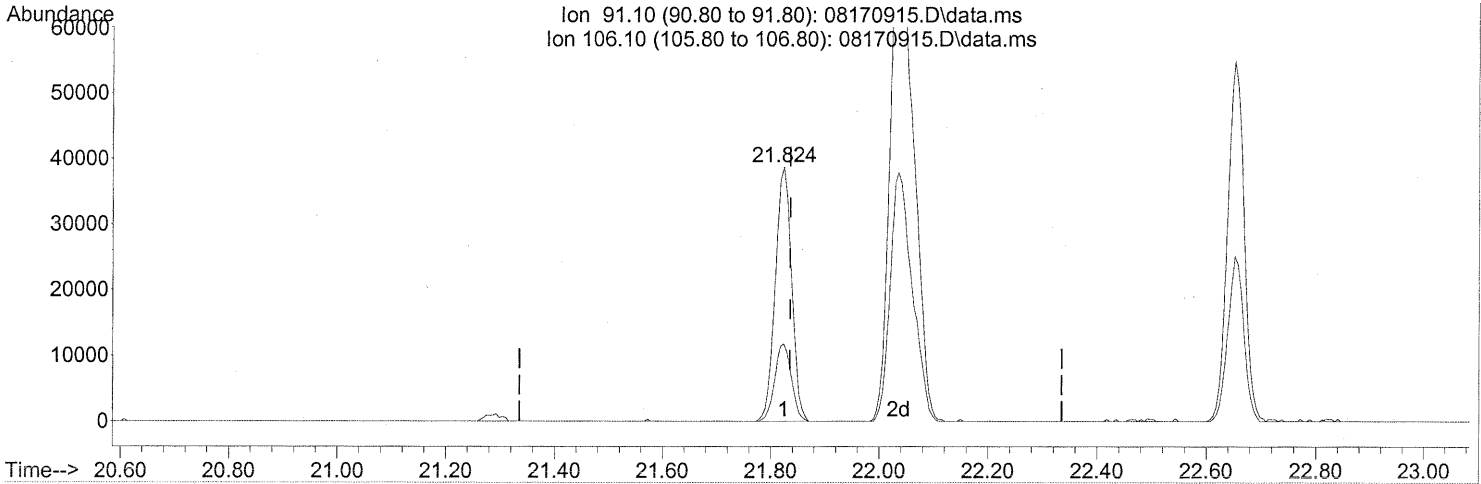
(62) n-Butyl Acetate (T)
 20.184min (-0.023) 0.76ng
 response 26052

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	39.46
73.00	14.80	16.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

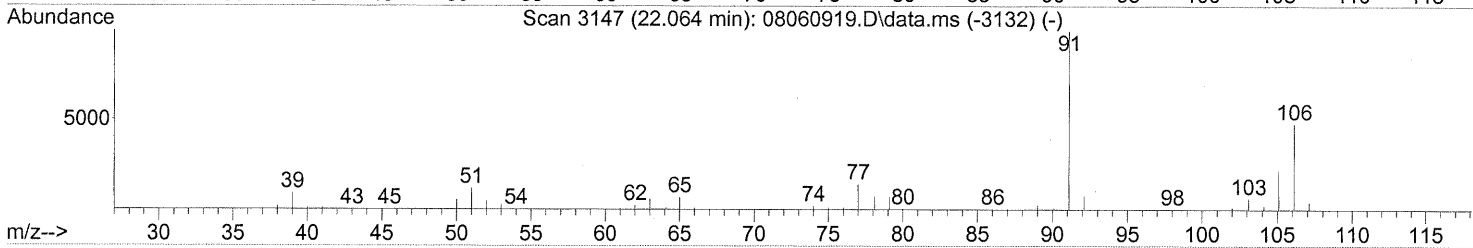
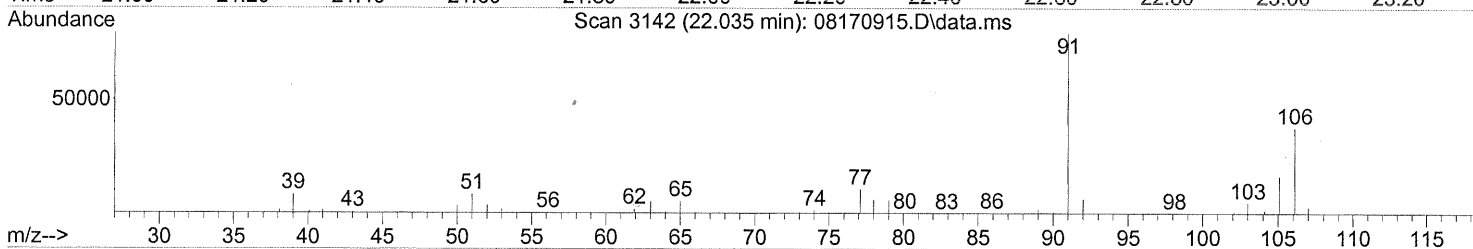
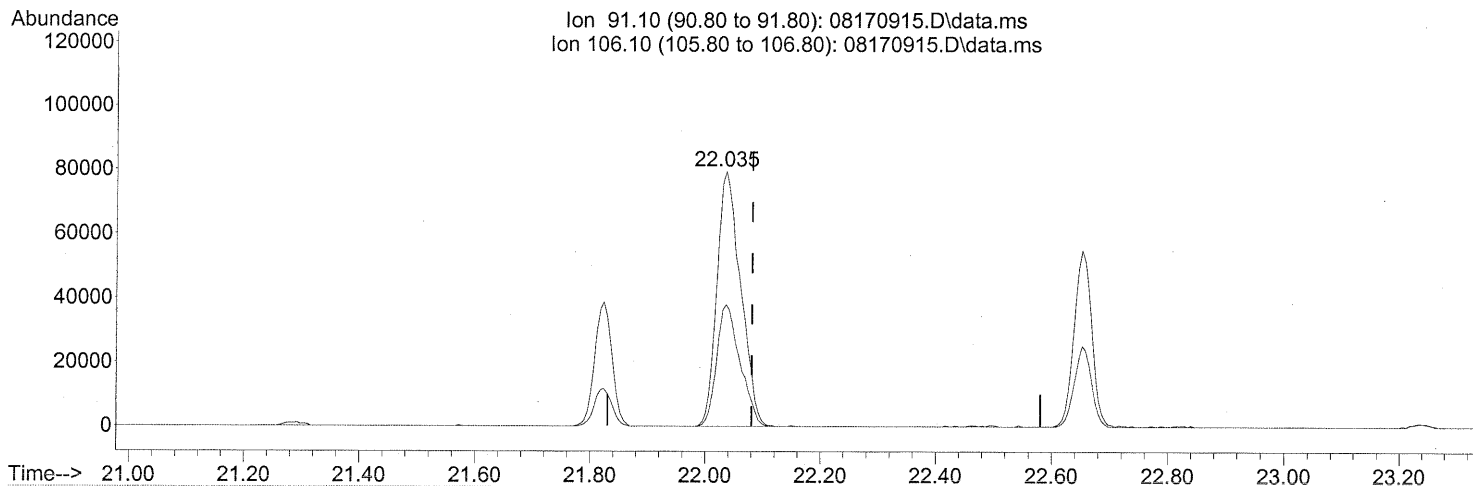
(66) Ethylbenzene (T)
 21.824min (-0.012) 1.61ng
 response 81169

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(67) m- & p-Xylenes (T)

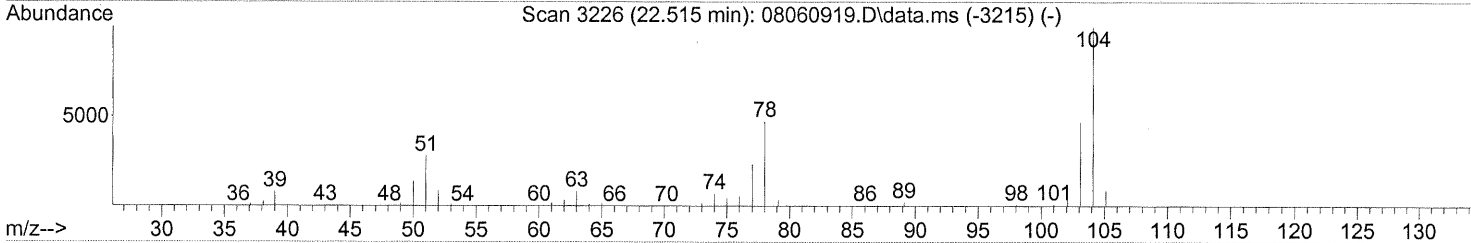
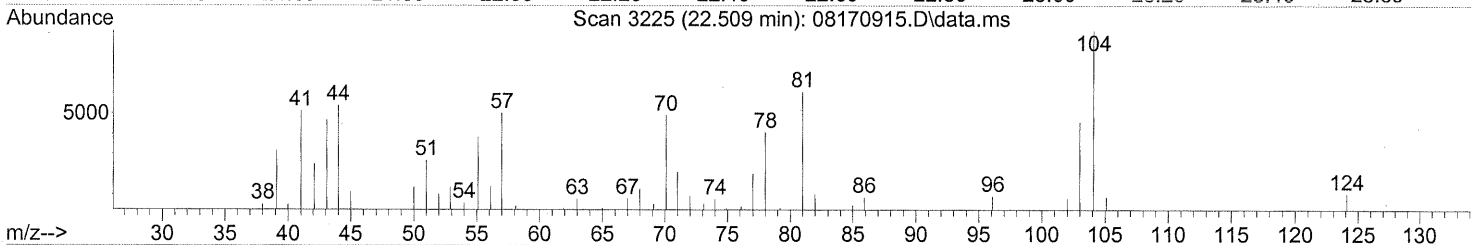
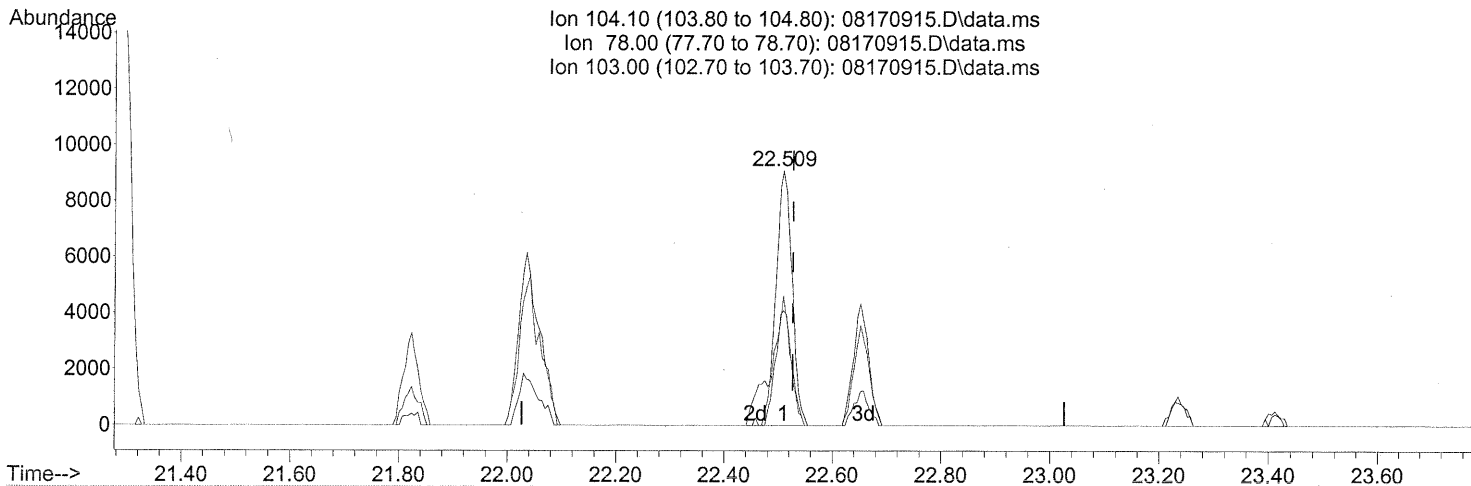
22.035min (-0.046) 5.59ng
 response 227462

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(69) Styrene (T)

22.509min (-0.017) 0.64ng

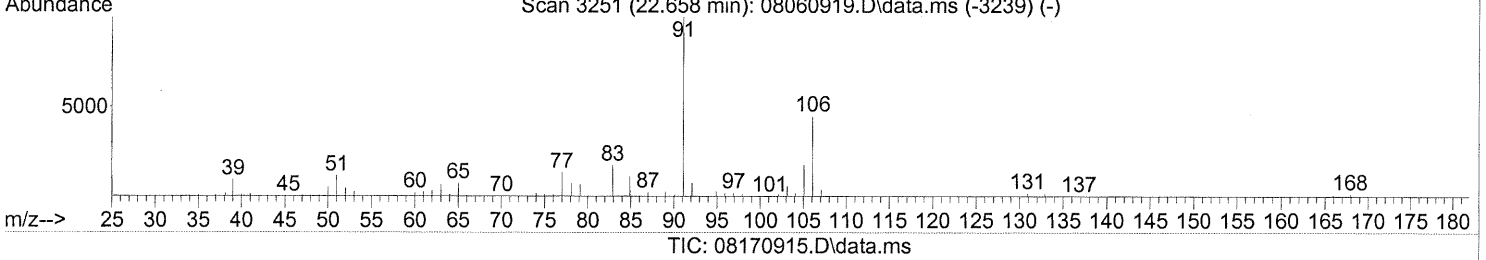
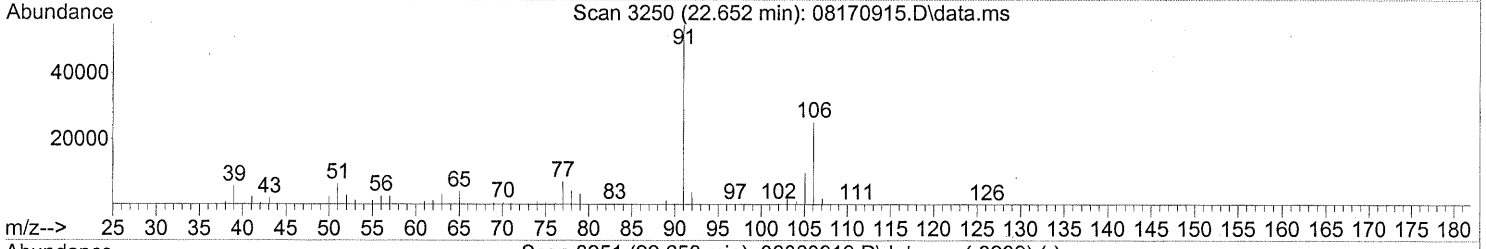
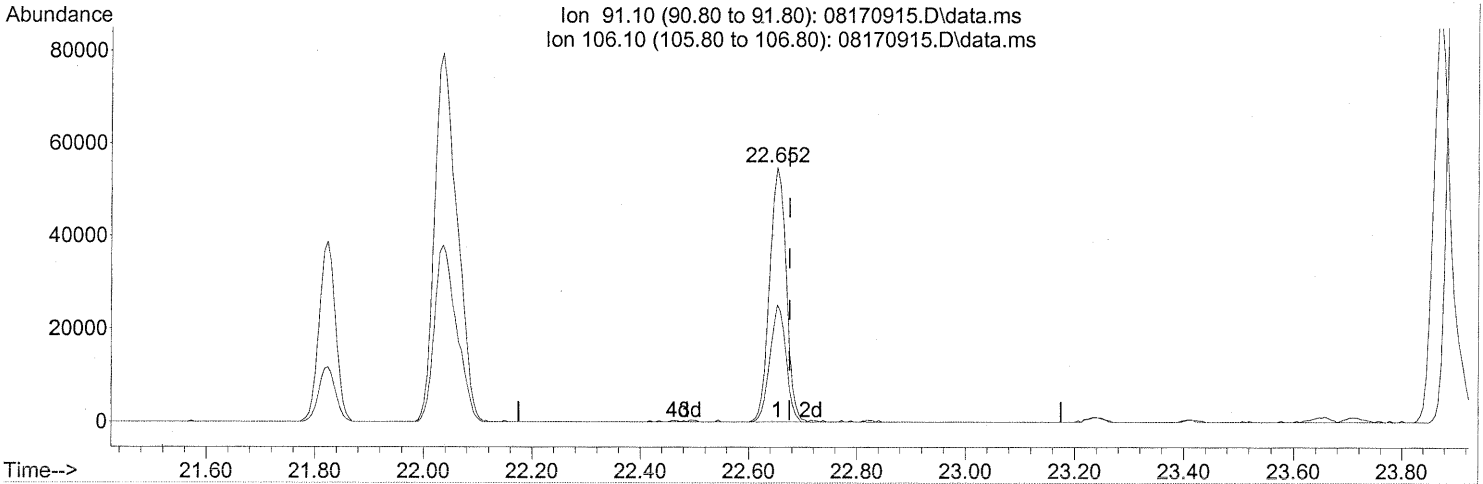
response 18843

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	45.67
103.00	46.20	61.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



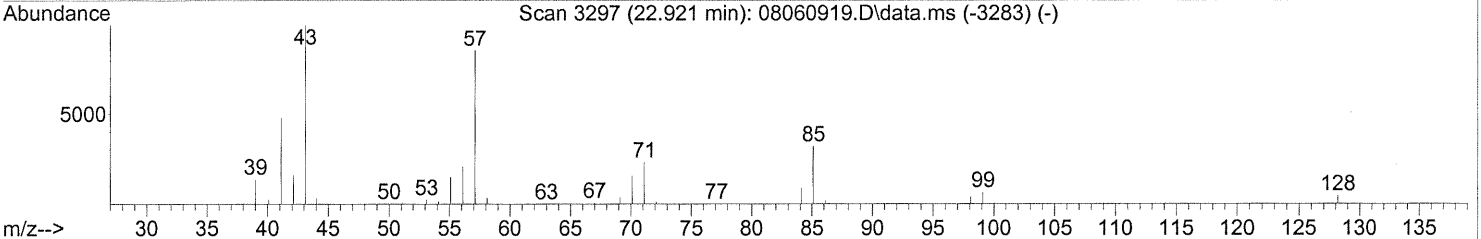
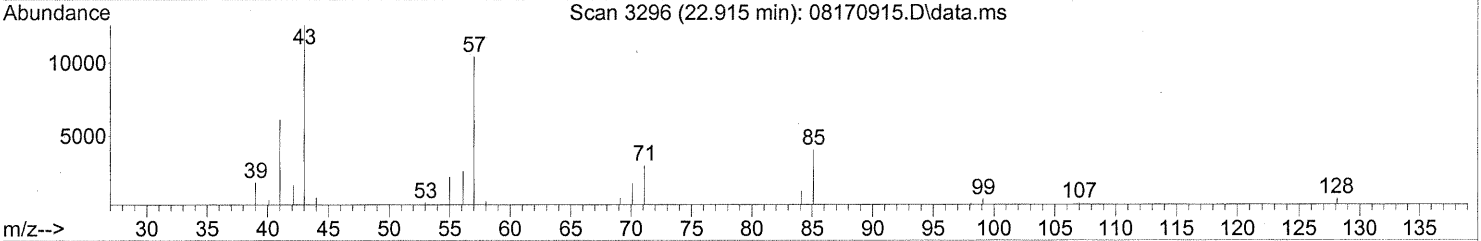
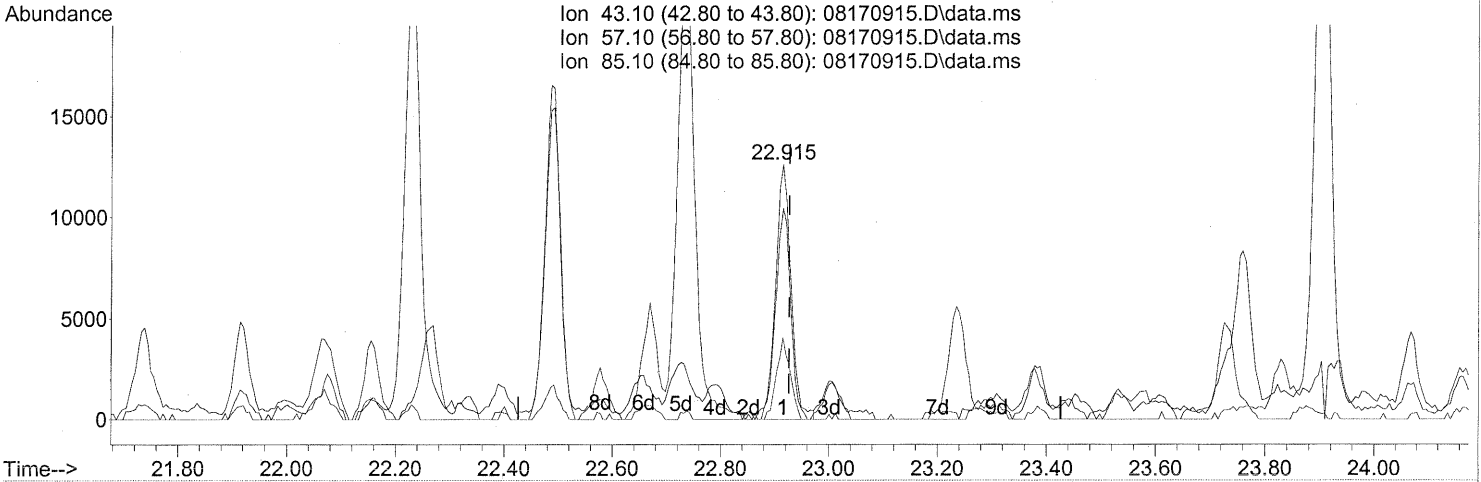
(70) o-Xylene (T)
 22.652min (-0.023) 2.85ng
 response 116158

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	44.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



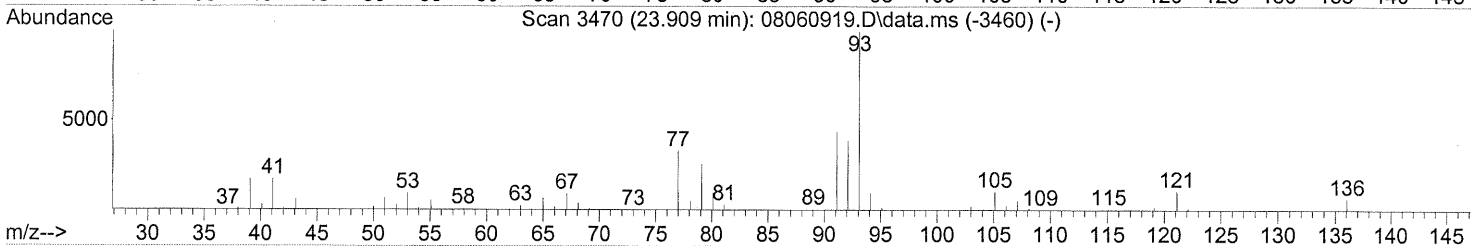
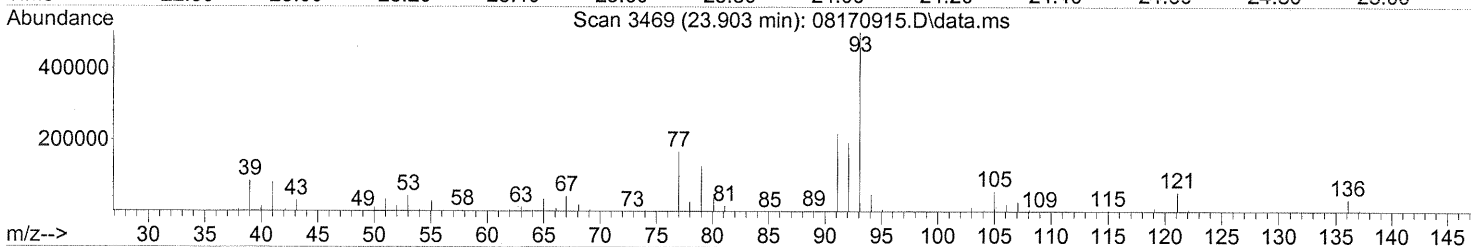
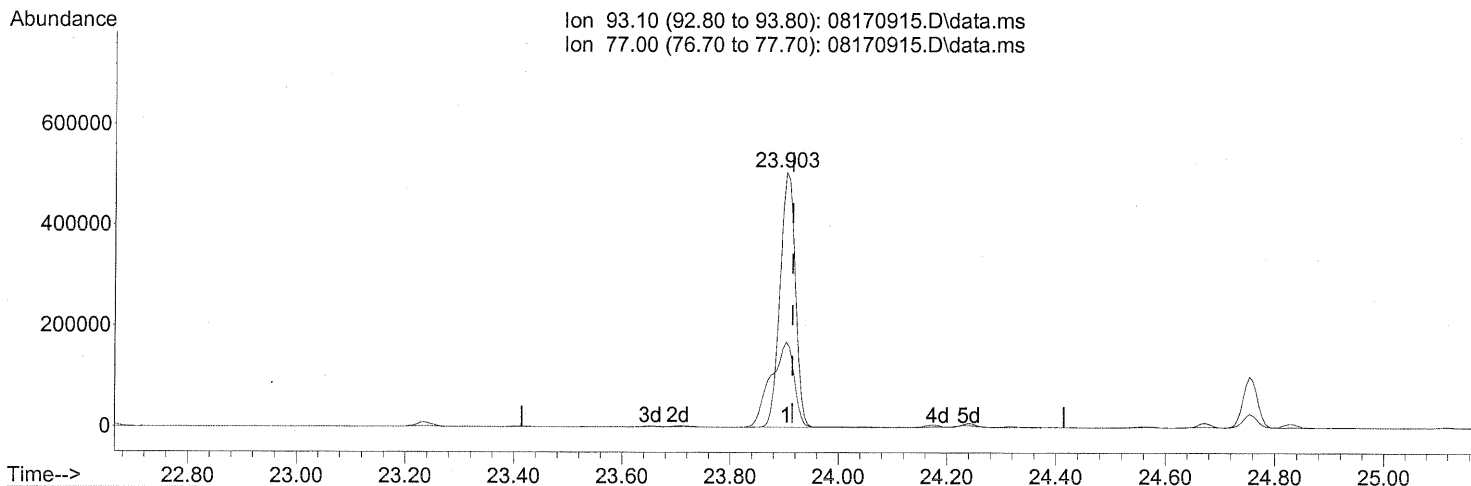
(71) n-Nonane (T)
 22.915min (-0.012) 0.93ng
 response 25276

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	79.77
85.10	30.40	28.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(75) alpha-Pinene (T)
 23.903min (-0.012) 37.56ng

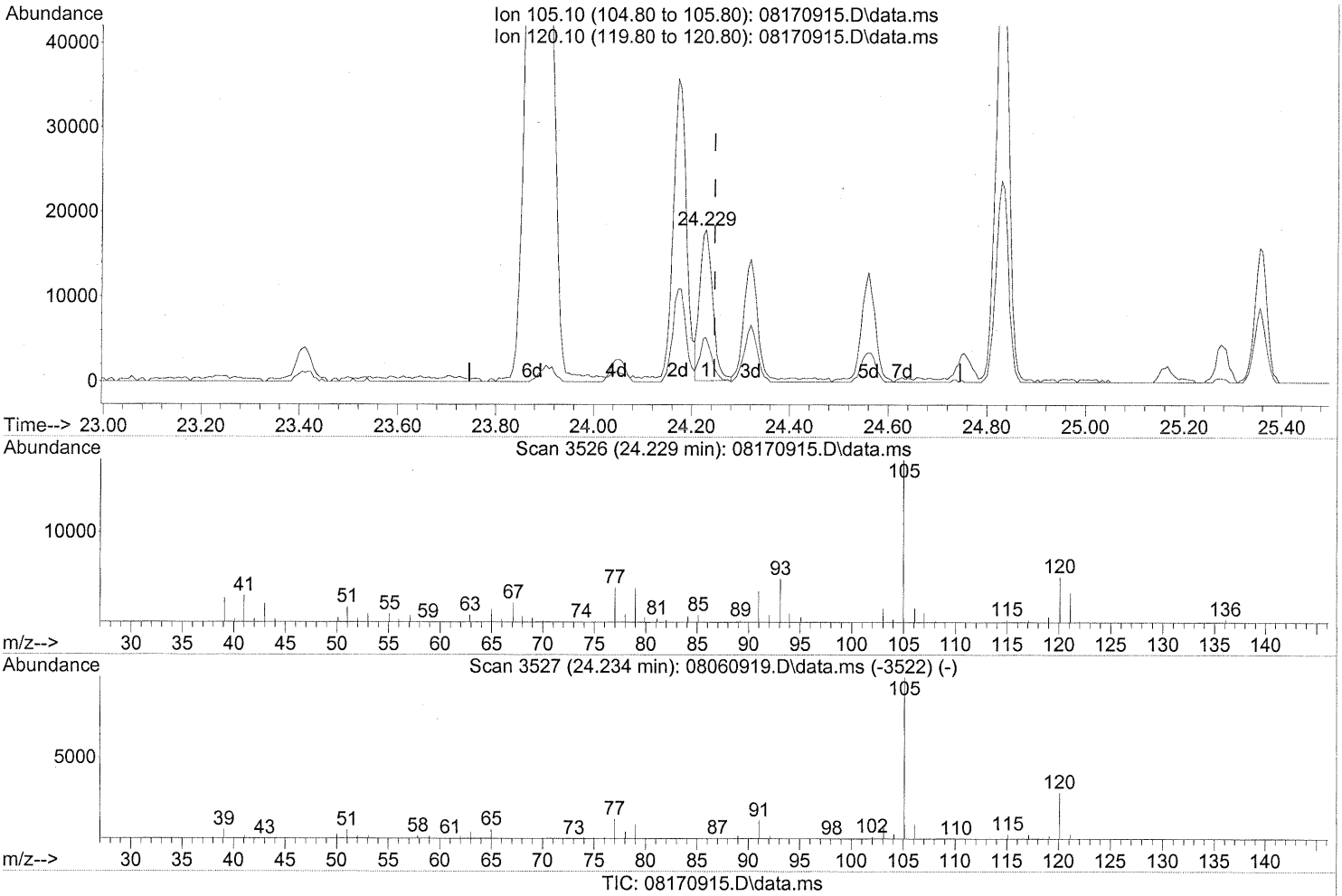
response 991942

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	50.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



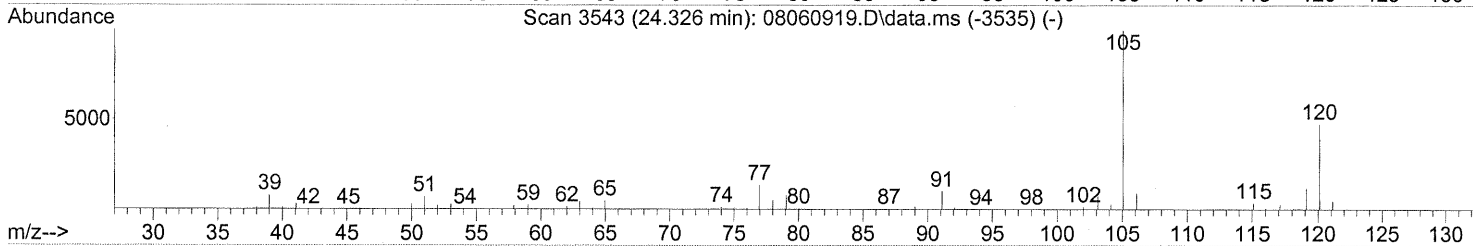
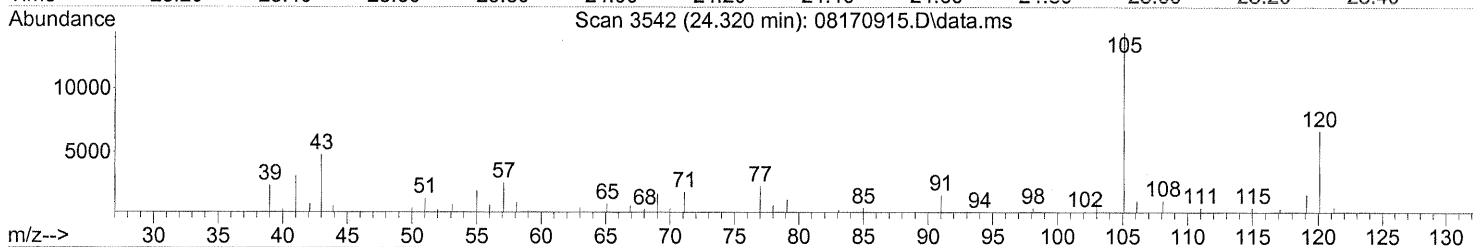
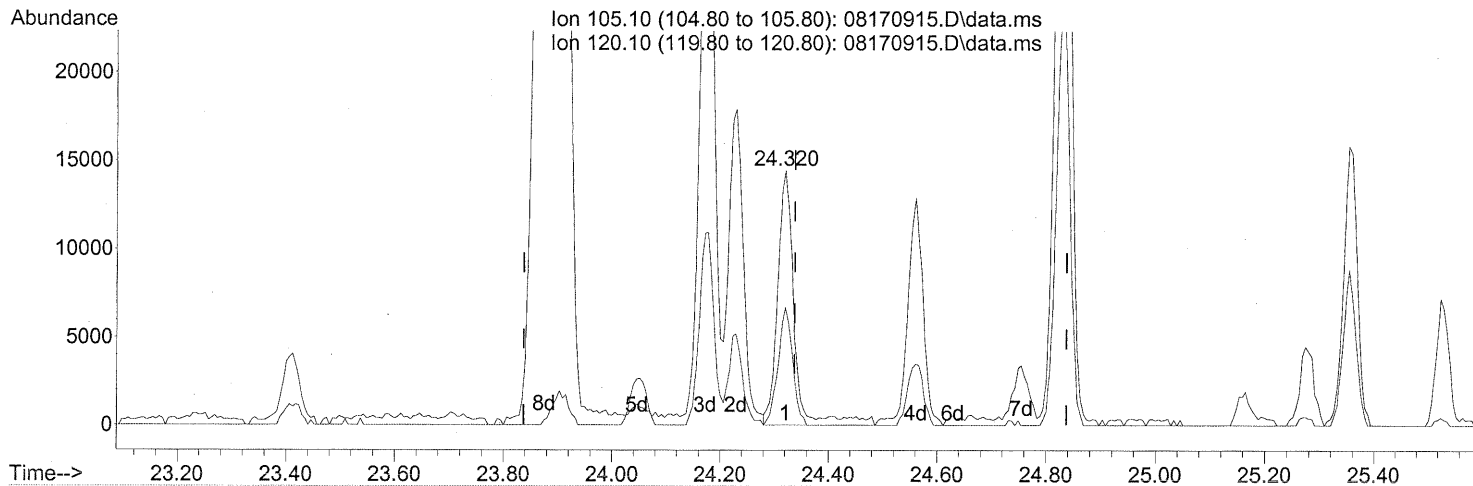
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 0.68ng
 response 32497

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	28.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 0.77ng

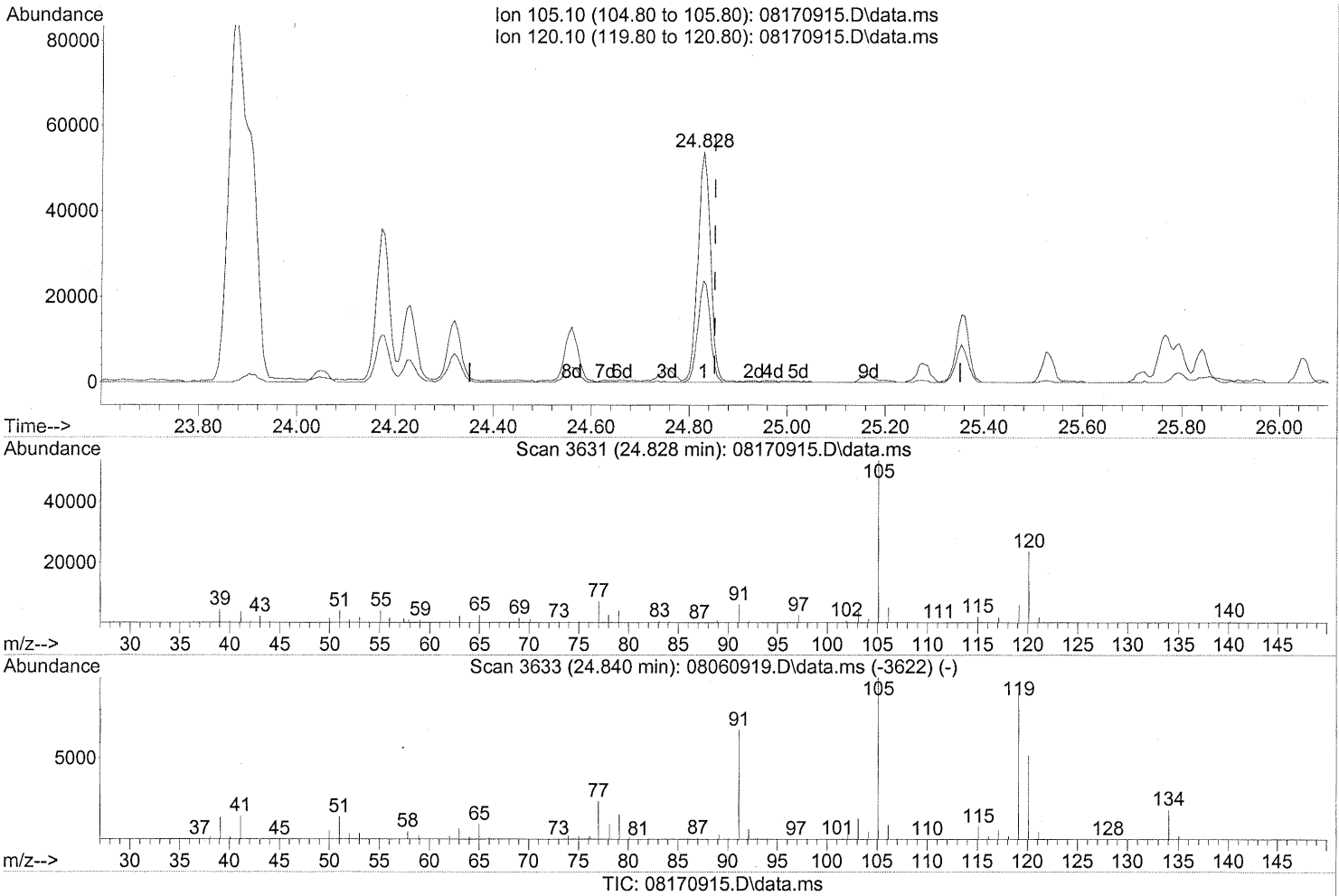
response 30786

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	40.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 2.37ng

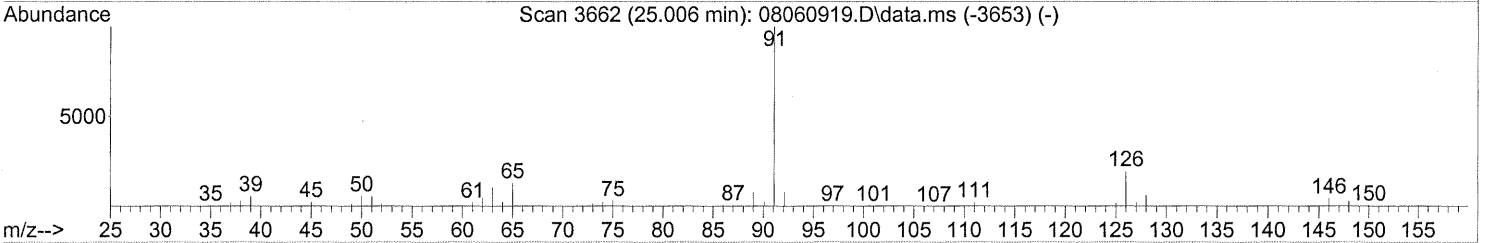
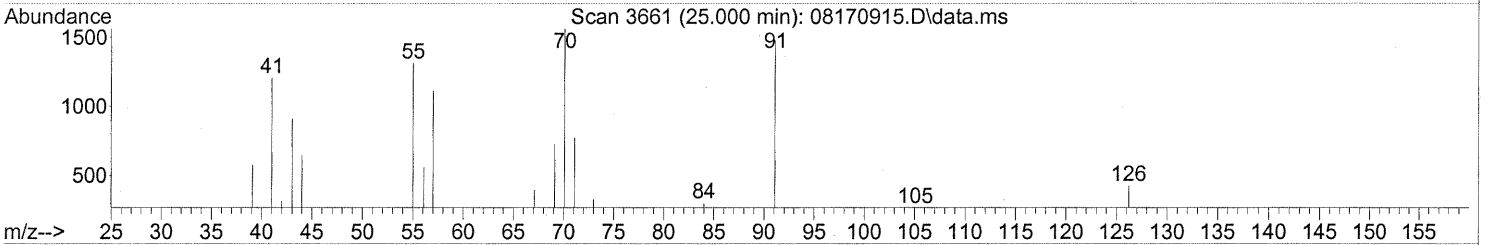
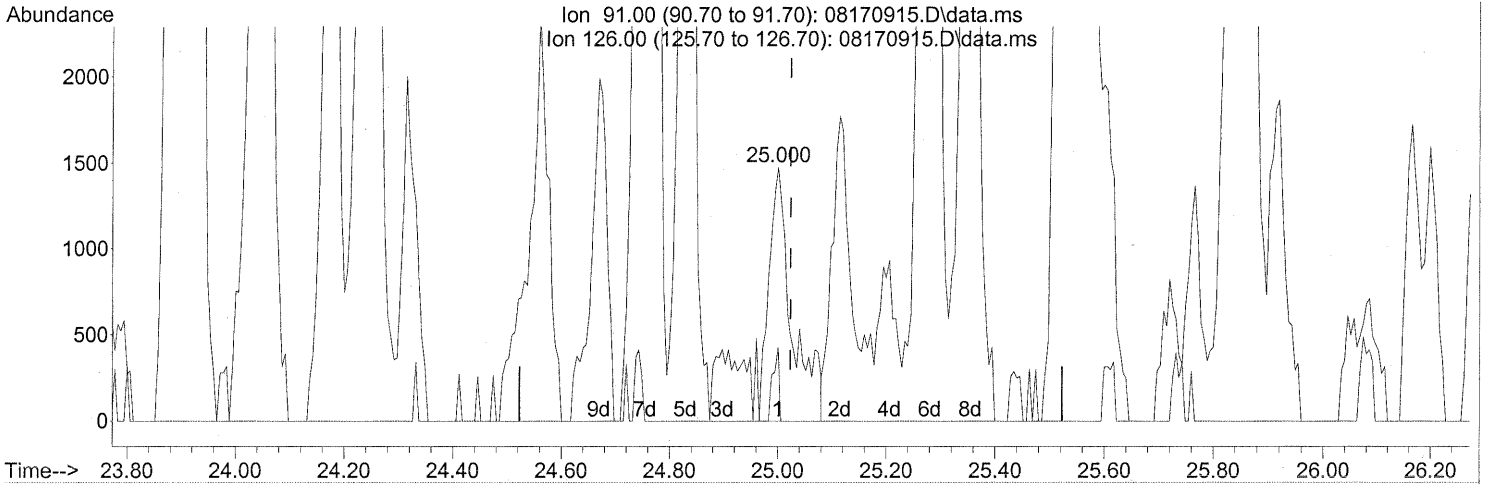
response 97167

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	42.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170915.D
Acq On : 17 Aug 2009 15:13
Operator : WA
Sample : P0902721-001 (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(84) Benzyl Chloride (T)
25.000min (-0.023) 0.12ng
response 4538

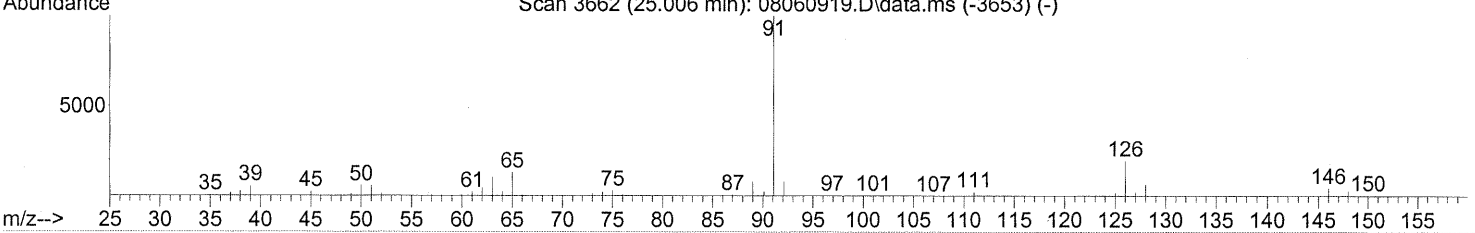
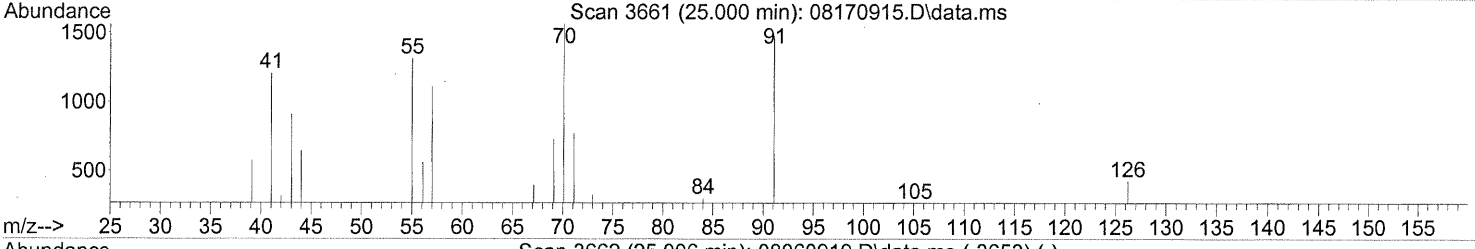
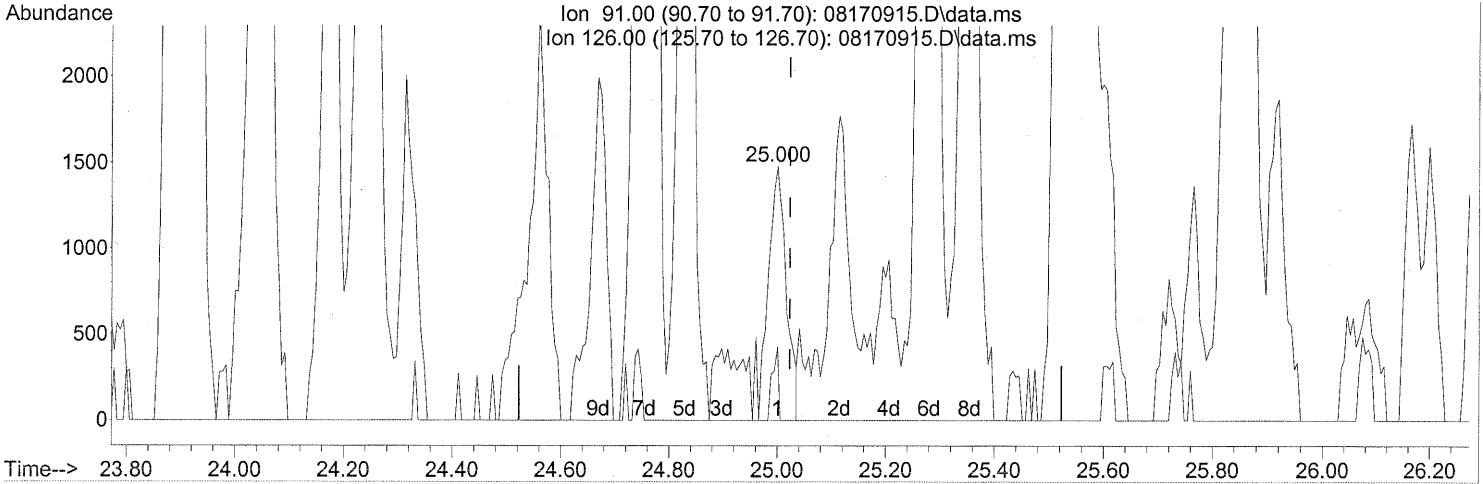
Ion	Exp%	Act%
91.00	100	100
126.00	19.50	7.43
0.00	0.00	0.00
0.00	0.00	0.00

JPI

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(84) Benzyl Chloride (T)
 25.000min (-0.023) 0.09ng m
 response 3394

Ion	Exp%	Act%
91.00	100	100
126.00	19.50	9.93
0.00	0.00	0.00
0.00	0.00	0.00

< RL

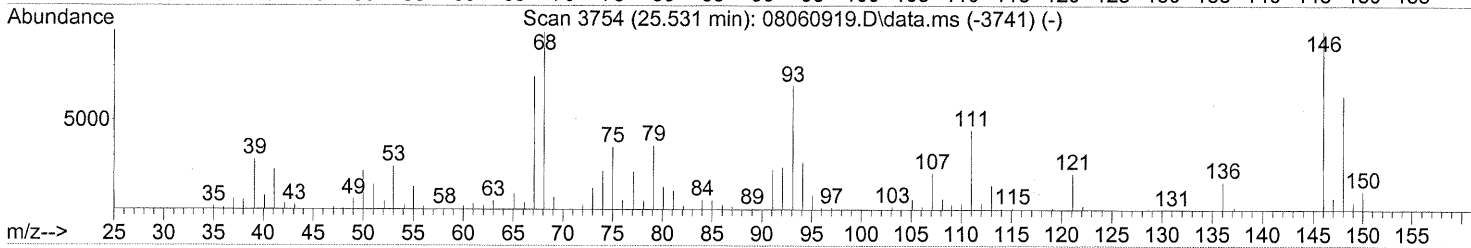
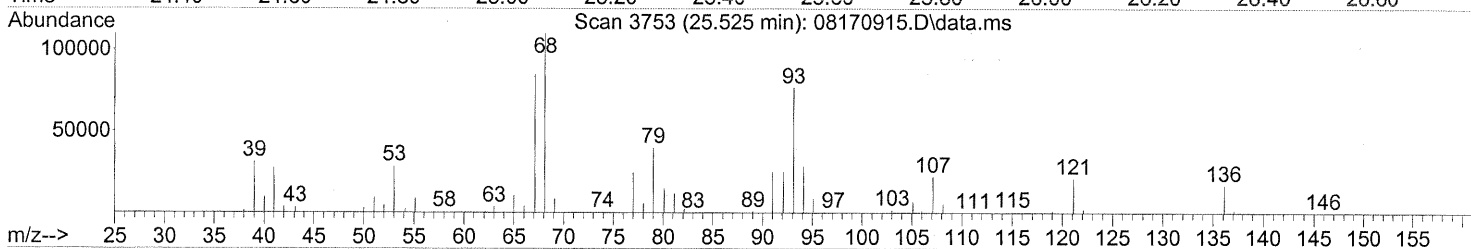
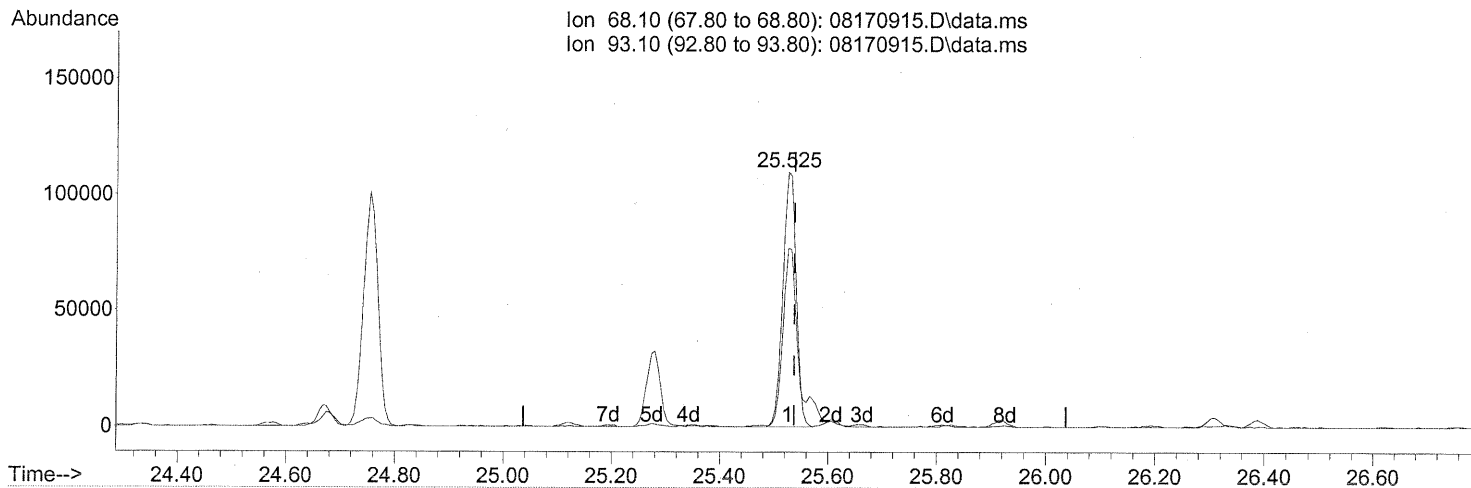
IPI → IC
 in 8/20/09

com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(91) d-Limonene (T)
 25.525min (-0.012) 10.74ng

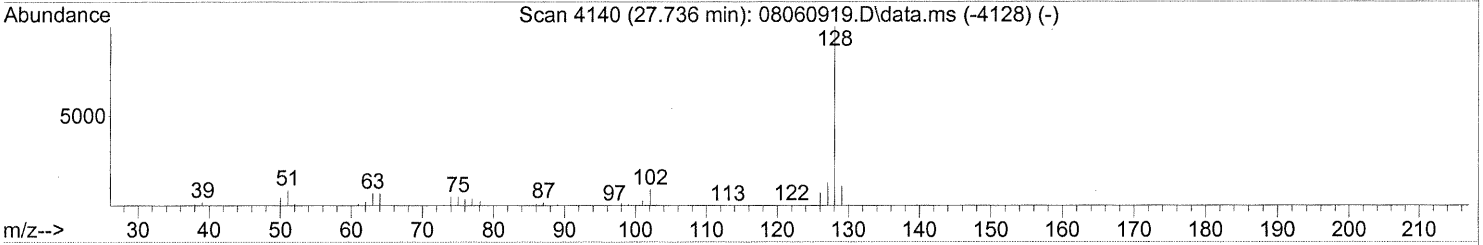
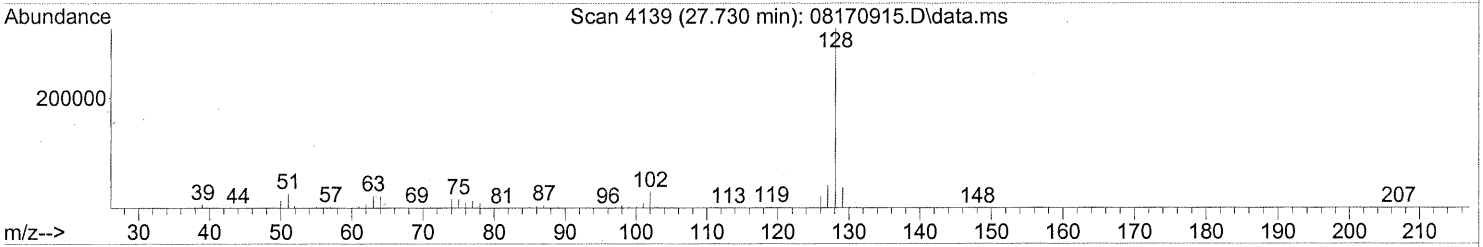
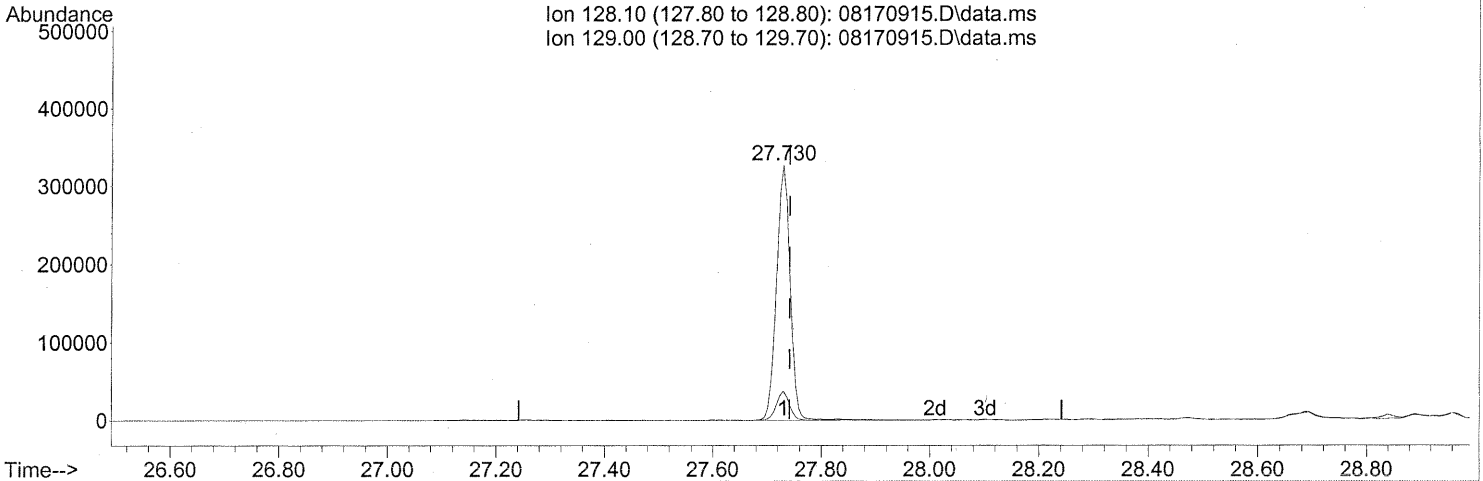
response 187377

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	83.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170915.D
 Acq On : 17 Aug 2009 15:13
 Operator : WA
 Sample : P0902721-001 (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 16:04:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170915.D\data.ms

(95) Naphthalene (T)
 27.730min (-0.012) 10.33ng
 response 575420

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.96
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100215
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-002

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: AC01236

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.46

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	1.9	0.73	1.1	0.42	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.73	0.62	0.15	
74-87-3	Chloromethane	1.0	0.15	0.49	0.071	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.066	
74-83-9	Bromomethane	0.55	0.15	0.14	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.055	
64-17-5	Ethanol	190	7.3	100	3.9	
75-05-8	Acetonitrile	320	0.73	190	0.43	E
107-02-8	Acrolein	4.0	0.73	1.7	0.32	
67-64-1	Acetone	59	7.3	25	3.1	
75-69-4	Trichlorofluoromethane	1.5	0.15	0.26	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.3	0.73	2.1	0.30	
107-13-1	Acrylonitrile	ND	0.73	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.73	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.047	
76-13-1	Trichlorotrifluoroethane	0.76	0.15	0.099	0.019	
75-15-0	Carbon Disulfide	0.83	0.73	0.27	0.23	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	ND	7.3	ND	2.1	
78-93-3	2-Butanone (MEK)	2.9	0.73	0.99	0.25	

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.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: _____

8/24/09

60

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100215

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-002

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: AC01236

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/14/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.46

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	1.6	0.73	0.43	0.20	
110-54-3	n-Hexane	4.7	0.73	1.3	0.21	
67-66-3	Chloroform	0.89	0.15	0.18	0.030	
109-99-9	Tetrahydrofuran (THF)	1.1	0.73	0.36	0.25	
107-06-2	1,2-Dichloroethane	0.27	0.15	0.066	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	4.0	0.15	1.2	0.046	
56-23-5	Carbon Tetrachloride	0.57	0.15	0.090	0.023	
110-82-7	Cyclohexane	0.95	0.73	0.27	0.21	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	0.38	0.15	0.057	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.73	ND	0.20	
80-62-6	Methyl Methacrylate	ND	0.73	ND	0.18	
142-82-5	n-Heptane	1.6	0.73	0.39	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	0.73	ND	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.73	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	15	0.73	3.9	0.19	
591-78-6	2-Hexanone	ND	0.73	ND	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	1.3	0.73	0.28	0.15	

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: _____

Date: 8/24/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100215
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-002

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: AC01236

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.93	0.73	0.20	0.16	
127-18-4	Tetrachloroethene	0.15	0.15	0.022	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	2.9	0.73	0.67	0.17	
179601-23-1	m,p-Xylenes	10	0.73	2.3	0.17	
75-25-2	Bromoform	ND	0.73	ND	0.071	
100-42-5	Styrene	1.0	0.73	0.24	0.17	
95-47-6	o-Xylene	5.1	0.73	1.2	0.17	
111-84-2	n-Nonane	1.6	0.73	0.30	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.73	ND	0.15	
80-56-8	alpha-Pinene	68	0.73	12	0.13	
103-65-1	n-Propylbenzene	ND	0.73	ND	0.15	
622-96-8	4-Ethyltoluene	1.2	0.73	0.24	0.15	
108-67-8	1,3,5-Trimethylbenzene	1.2	0.73	0.24	0.15	
95-63-6	1,2,4-Trimethylbenzene	4.1	0.73	0.84	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.024	
5989-27-5	d-Limonene	19	0.73	3.4	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.73	ND	0.076	
120-82-1	1,2,4-Trichlorobenzene	ND	0.73	ND	0.098	
91-20-3	Naphthalene	1.7	0.73	0.32	0.14	
87-68-3	Hexachlorobutadiene	ND	0.73	ND	0.068	

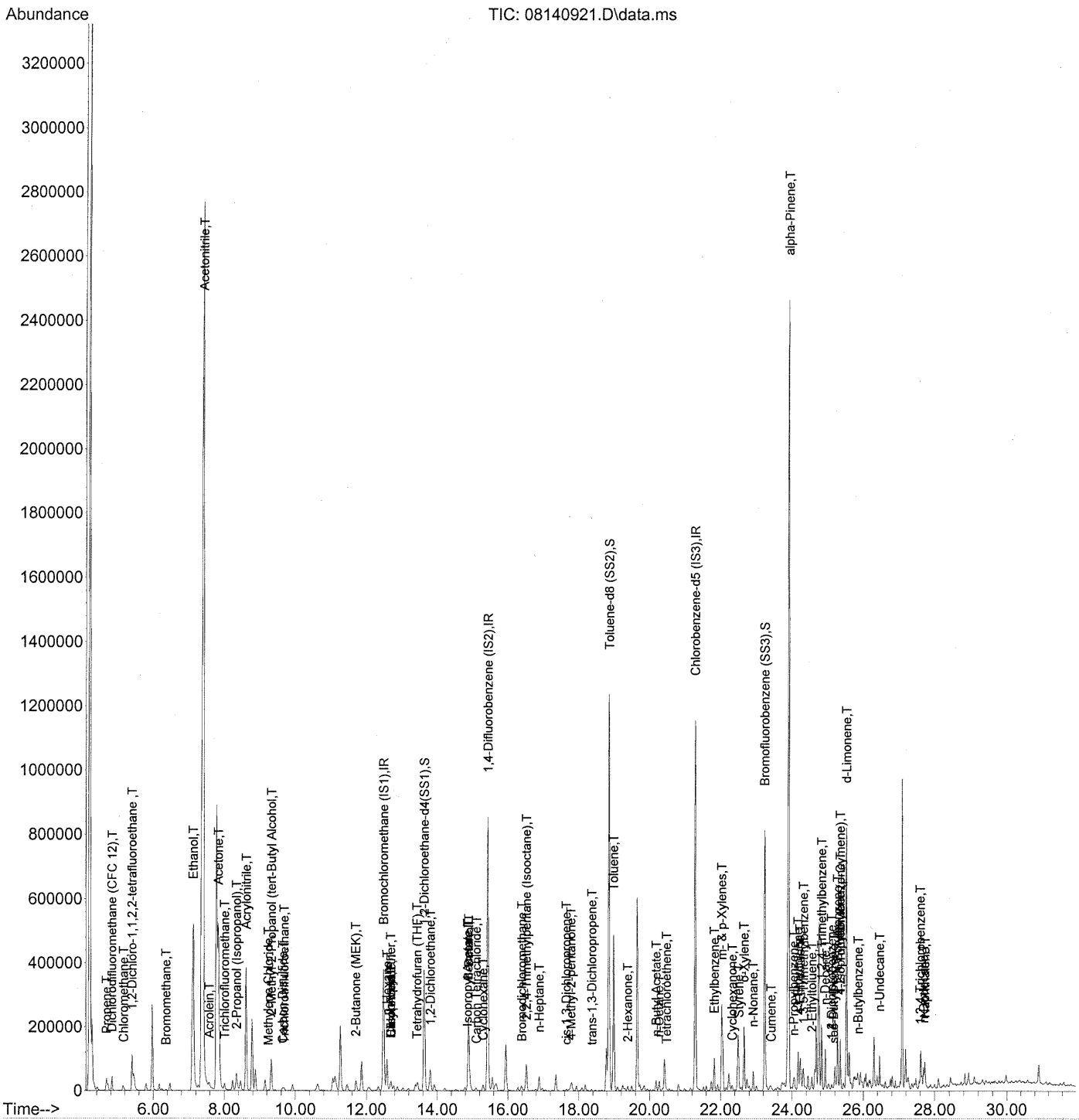
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: _____ Date: 8/24/09

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140921.D
Acq On : 14 Aug 2009 20:05
Operator : WA
Sample : P0902721-002 (1000mL)
Misc : Env. Health & Engineering 100215
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 19 15:19:15 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215 ✓ ✓
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 19 15:19:15 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	194564	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	975124	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	480819	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	393723	23.282	ng	-0.03
Spiked Amount	25.000			Recovery =	93.12%	✓
57) Toluene-d8 (SS2)	18.85	98	1051473	25.027	ng	-0.01
Spiked Amount	25.000			Recovery =	100.12%	✓
73) Bromofluorobenzene (SS3)	23.23	174	257202	23.215	ng	-0.01
Spiked Amount	25.000			Recovery =	92.84%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	17240	1.291 ng	# M	82
3) Dichlorodifluoromethan...	4.84	85	45473	2.084 ng		99
4) Chloromethane	5.17	50	10253	0.699 ng		90
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	691	0.078 ng	#	44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.89	54	479	N.D.		
8) Bromomethane	6.36	94	3209	0.374 ng		96
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	1103060	130.338 ng		100
11) Acetonitrile	7.41	41	5382244	217.158 ng	E	100
12) Acrolein	7.58	56	17548	2.724 ng		95
13) Acetone	7.83	58	324462m	40.633 ng		
14) Trichlorofluoromethane	8.01	101	20008	1.014 ng		99
15) 2-Propanol (Isopropanol)	8.35	45	113311	3.611 ng		99
16) Acrylonitrile	8.62	53	6191	0.429 ng	#	43
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.33	59	3186	0.114 ng	#	1
19) Methylene Chloride	9.24	84	1848	0.172 ng		87
20) 3-Chloro-1-propene (Al...	9.41	41	853	N.D.		
21) Trichlorotrifluoroethane	9.69	151	3716	0.518 ng		86
22) Carbon Disulfide	9.64	76	21586	0.571 ng		96
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. d		
27) 2-Butanone (MEK)	11.70	72	14461	2.006 ng		93
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	823	0.085 ng	#	1
30) Ethyl Acetate	12.70	61	4011	1.068 ng		97
31) n-Hexane	12.58	57	61865	3.220 ng		100

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 19 15:19:15 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	10281	0.608 ng		100
34) Tetrahydrofuran (THF)	13.43	72	5569	0.725 ng	#	82
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.80	62	2827	0.183 ng		90
38) 1,1,1-Trichloroethane	14.18	97	351	N.D.		
39) Isopropyl Acetate	14.85	61	753	0.104 ng	#	1
40) 1-Butanol	14.89	56	134803	10.652 ng		80
41) Benzene	14.88	78	116386	2.715 ng		98
42) Carbon Tetrachloride	15.11	117	5306	0.388 ng		96
43) Cyclohexane	15.29	84	10171	0.648 ng		99
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.39	83	3722	0.263 ng	#	58
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.56	88	186	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	94009	1.862 ng	<i>NE</i>	97
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.88	71	12655	1.100 ng		98
52) cis-1,3-Dichloropropene	17.65	75	4915	0.275 ng		98
53) 4-Methyl-2-pentanone	17.78	58	4607	0.447 ng		96
54) trans-1,3-Dichloropropene	18.37	75	4145	0.244 ng		97
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	417809	10.119 ng		99
59) 2-Hexanone	19.38	43	12629	0.460 ng		97
60) Dibromochloromethane	19.54	129	207	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	29245	0.904 ng		95
63) n-Octane	20.27	57	6356	0.637 ng		98
64) Tetrachloroethene	20.48	166	965	0.101 ng	#	72
65) Chlorobenzene	21.34	112	108	N.D.		
66) Ethylbenzene	21.82	91	94284	1.998 ng		100
67) m- & p-Xylenes	22.04	91	263287	6.896 ng		98
68) Bromoform	22.14	173	102	N.D.		
69) Styrene	22.51	104	19199	0.696 ng		97
70) o-Xylene	22.65	91	134441	3.512 ng		100
71) n-Nonane	22.91	43	27651	1.087 ng		100
72) 1,1,2,2-Tetrachloroethane	22.64	83	717	N.D.		
74) Cumene	23.41	105	8992	0.186 ng		98
75) alpha-Pinene	23.90	93	1154448	46.574 ng		80
76) n-Propylbenzene	24.05	91	29320	0.482 ng		92
77) 3-Ethyltoluene	24.17	105	77361	1.674 ng		97
78) 4-Ethyltoluene	24.23	105	35794	0.799 ng		98
79) 1,3,5-Trimethylbenzene	24.32	105	30762	0.815 ng		94

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 19 15:19:15 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

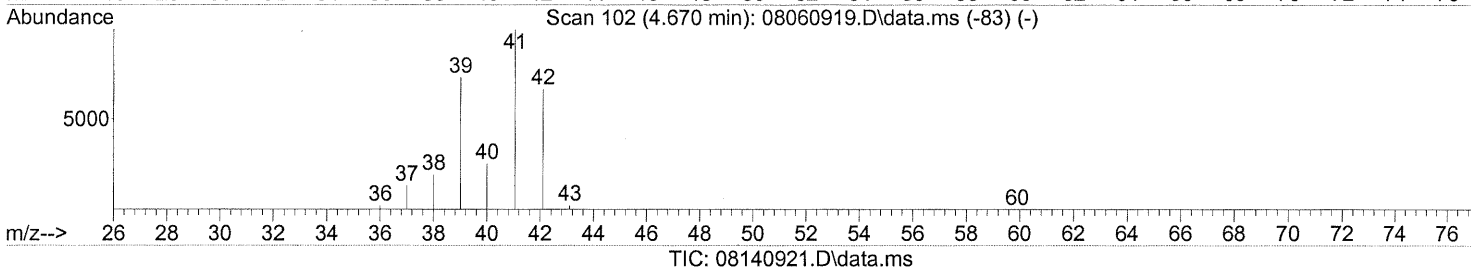
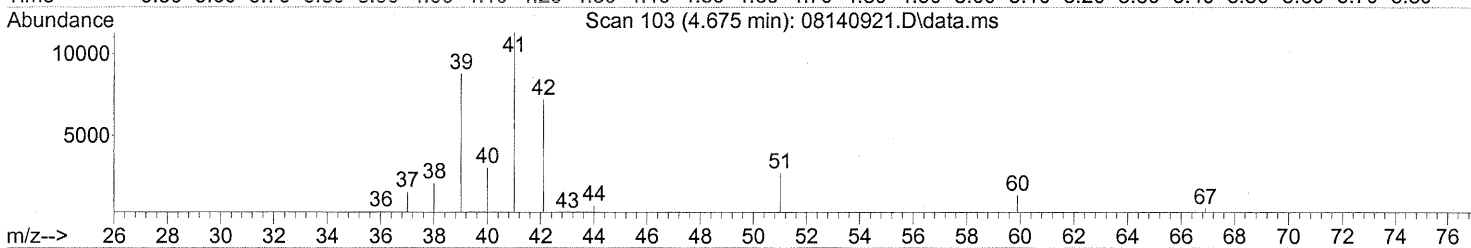
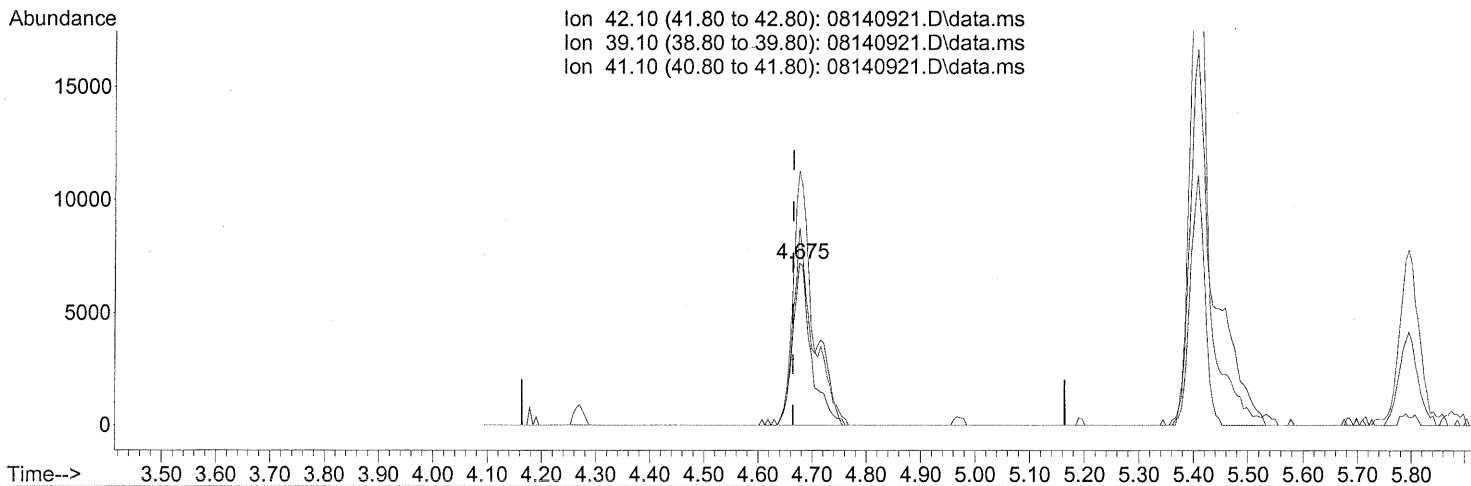
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	835	N.D.		
81) 2-Ethyltoluene	24.56	105	26458	0.568 ng		99
82) 1,2,4-Trimethylbenzene	24.83	105	108654	2.821 ng		89
83) n-Decane	24.93	57	47319	1.890 ng		96
84) Benzyl Chloride	24.99	91	1075	N.D.		
85) 1,3-Dichlorobenzene	25.02	146	104	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	1517	0.073 ng		91
87) sec-Butylbenzene	25.17	105	2715	0.052 ng	#	68
88) 4-Isopropyltoluene (p-...	25.35	119	49831	1.074 ng		99
89) 1,2,3-Trimethylbenzene	25.35	105	30878	0.787 ng		90
90) 1,2-Dichlorobenzene	25.11	146	1517	0.082 ng		89
91) d-Limonene	25.53	68	213283	13.022 ng		85
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	34265	1.286 ng		88
94) 1,2,4-Trichlorobenzene	27.60	180	874	0.069 ng	#	57
95) Naphthalene	27.73	128	60271	1.152 ng		96
96) n-Dodecane	27.70	57	19498	0.630 ng		87
97) Hexachlorobutadiene	28.15	225	91	N.D.		
98) Cyclohexanone	22.33	55	11377	0.665 ng	#	81
99) tert-Butylbenzene	25.27	119	6522	0.175 ng		95
100) n-Butylbenzene	25.86	91	16235	0.378 ng	#	51

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.675min (+0.012) 1.29ng *M*

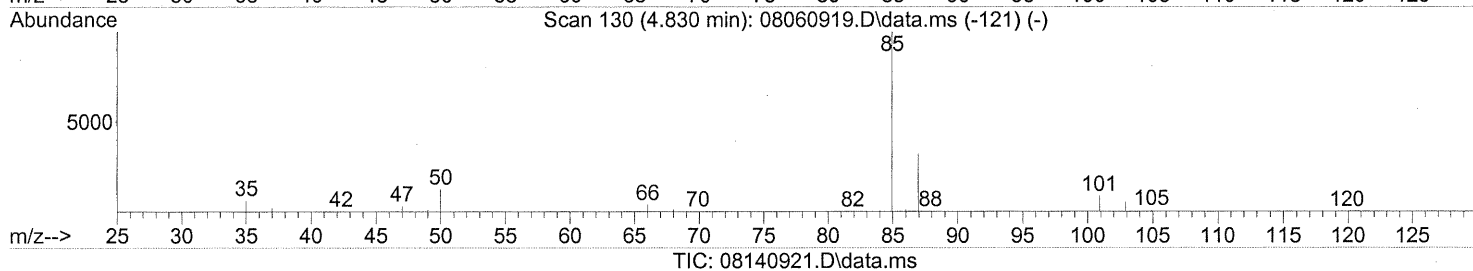
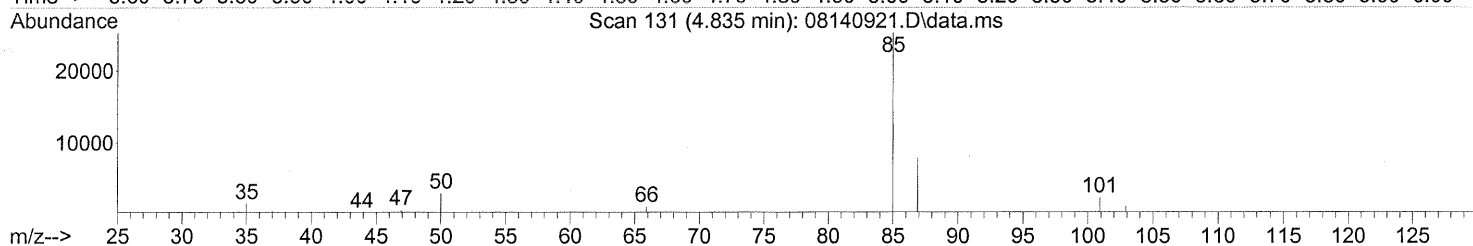
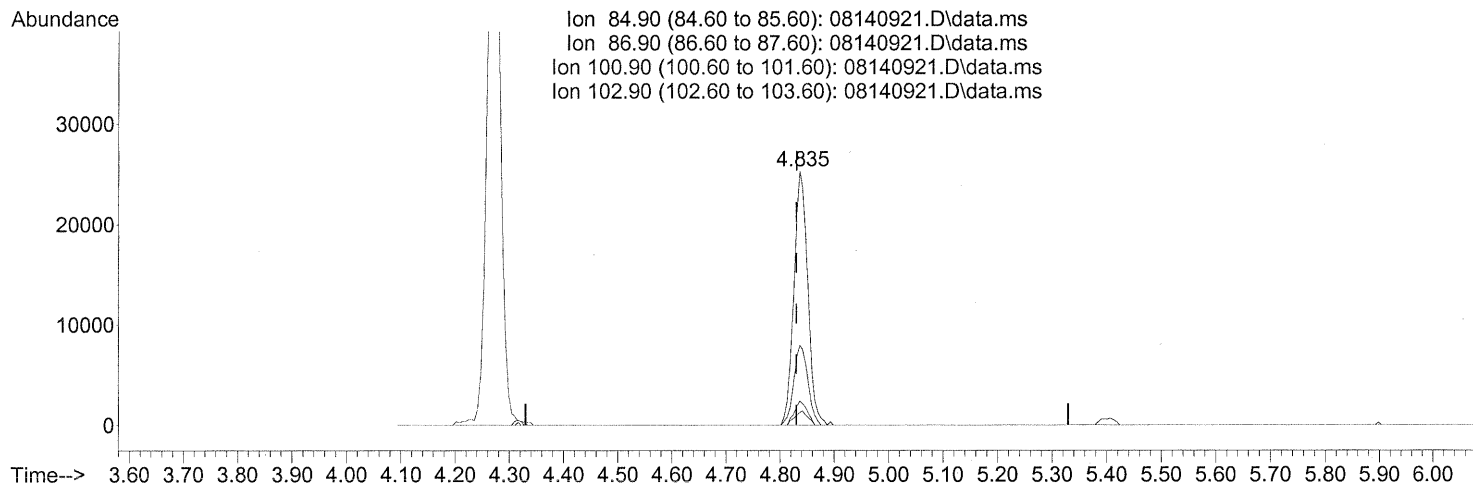
response 17240

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	135.69#
41.10	150.20	168.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.835min (+0.006) 2.08ng

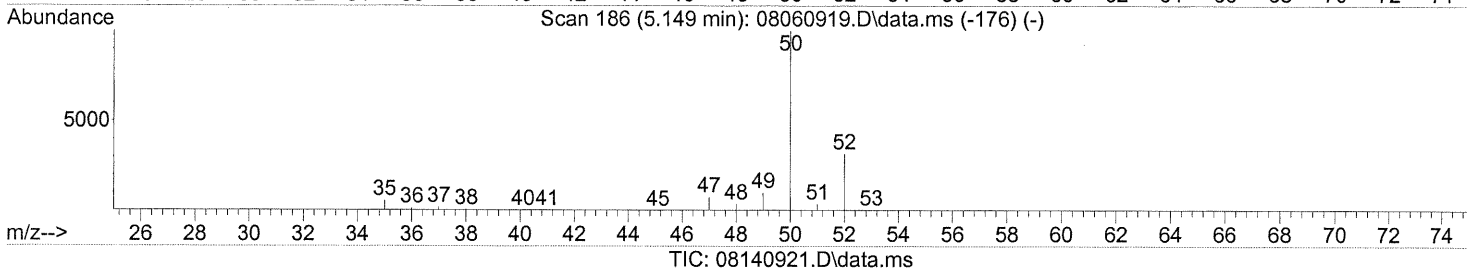
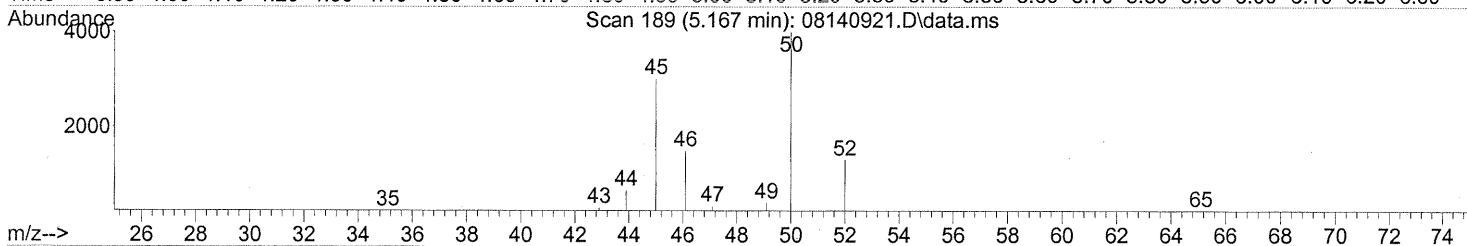
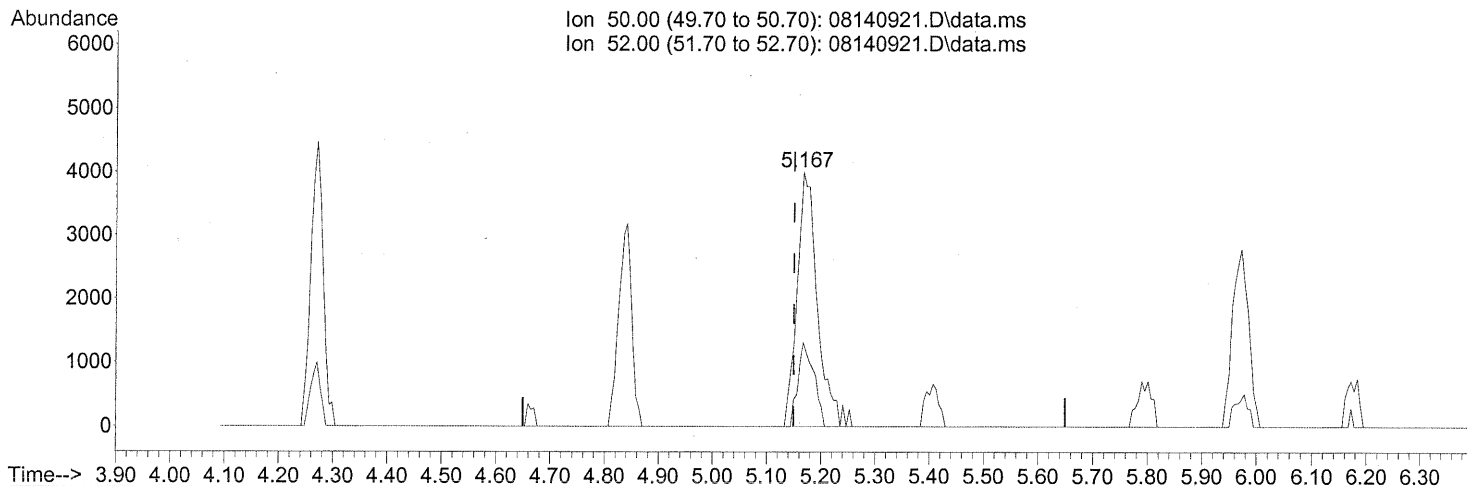
response 45473

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.99
100.90	8.80	8.67
102.90	5.20	5.08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140921.D
Acq On : 14 Aug 2009 20:05
Operator : WA
Sample : P0902721-002 (1000mL)
Misc : Env. Health & Engineering 100215
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(4) Chloromethane (T)

5.167min (+0.017) 0.70ng

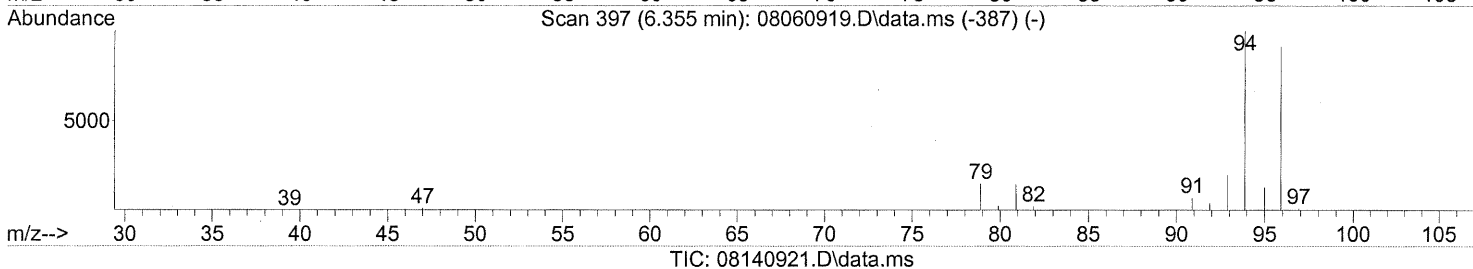
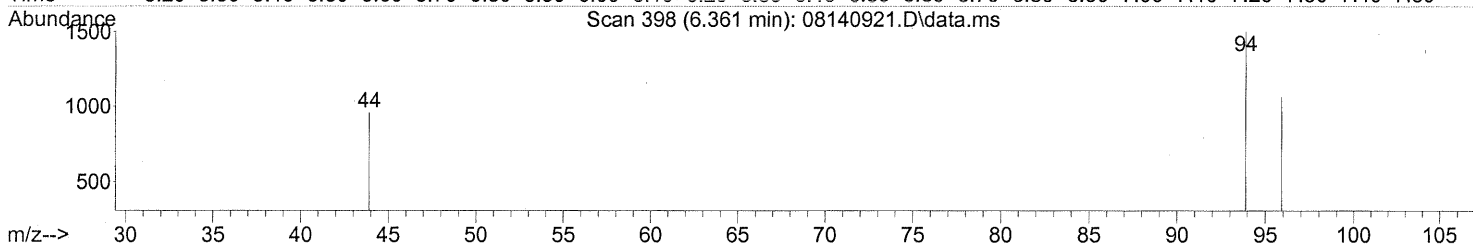
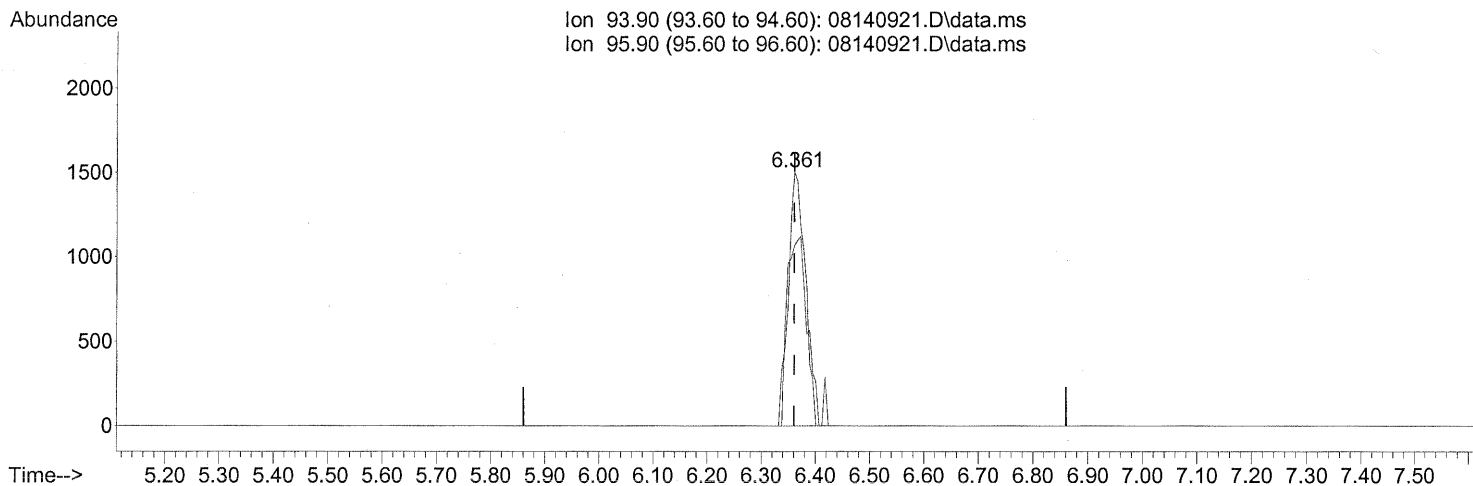
response 10253

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	26.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(8) Bromomethane (T)

6.361min (+0.000) 0.37ng

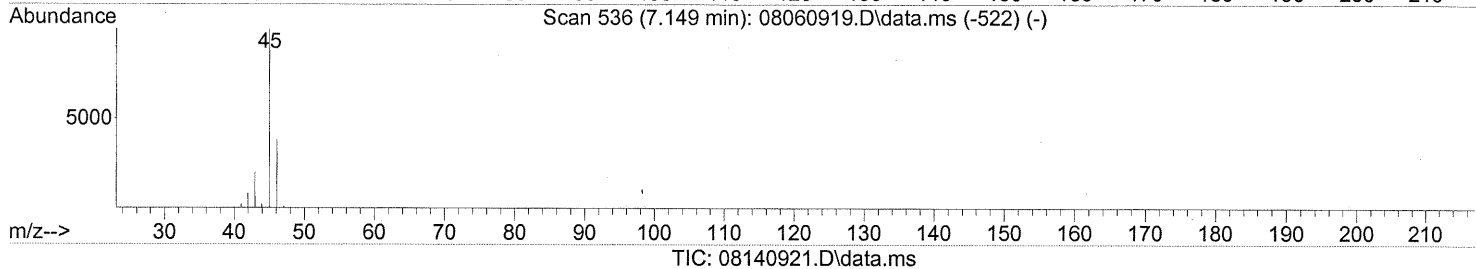
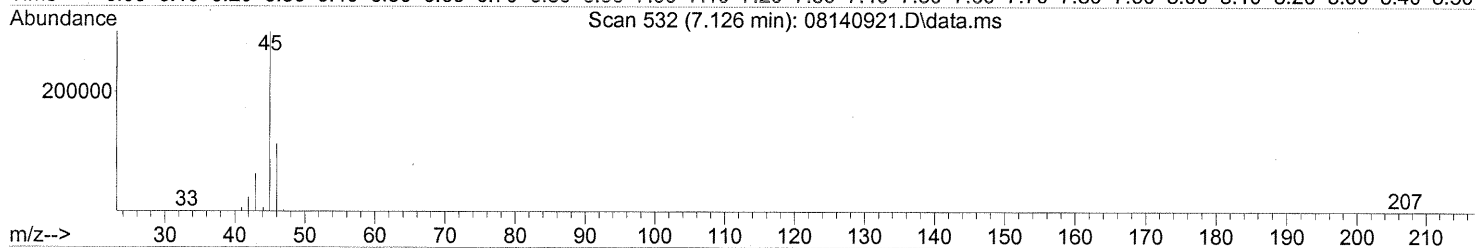
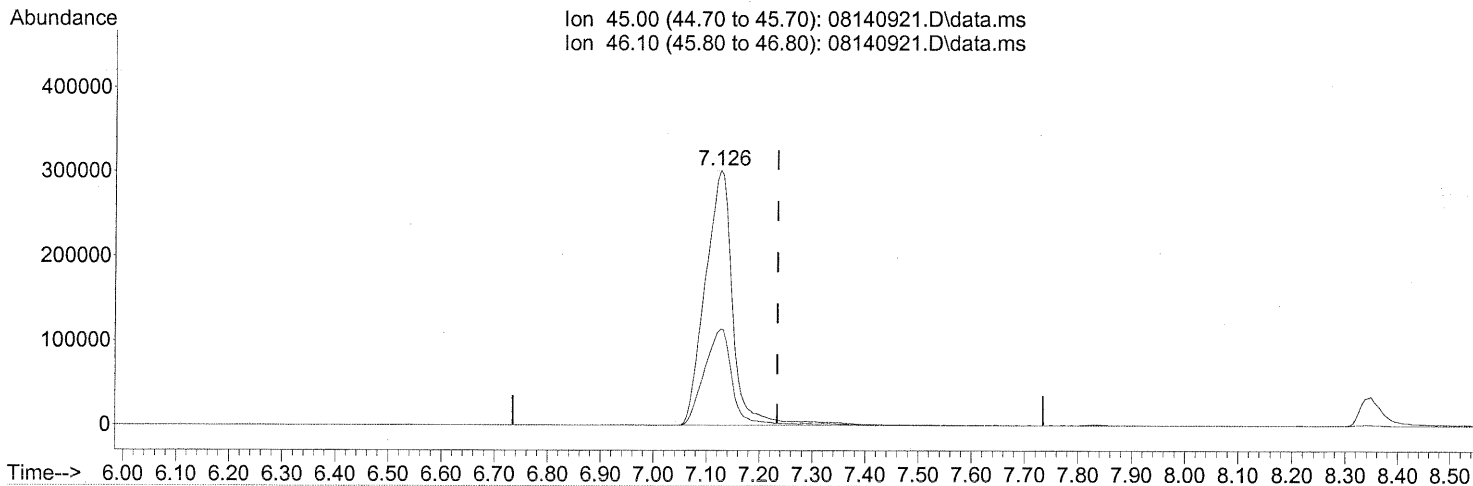
response 3209

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	89.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.126min (-0.108) 130.34ng

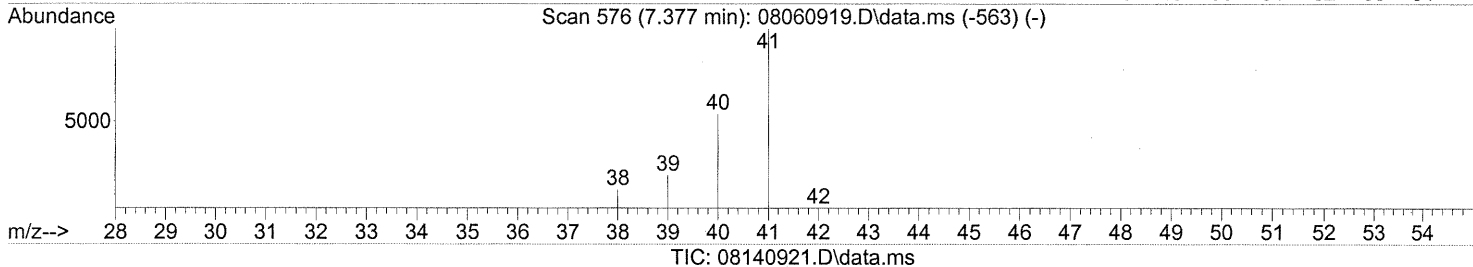
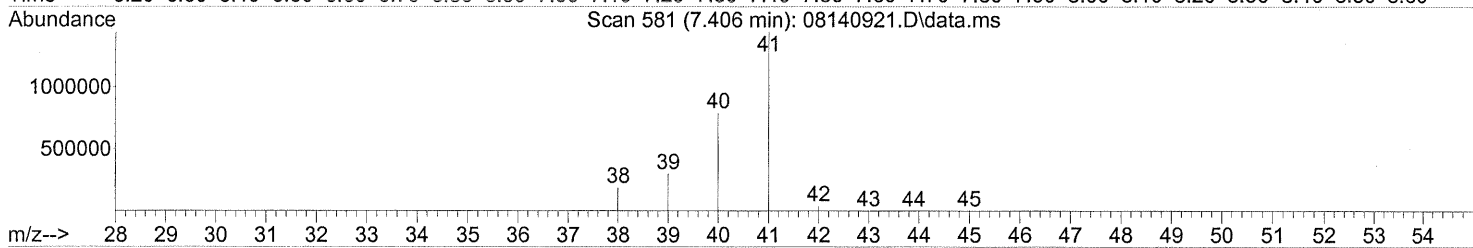
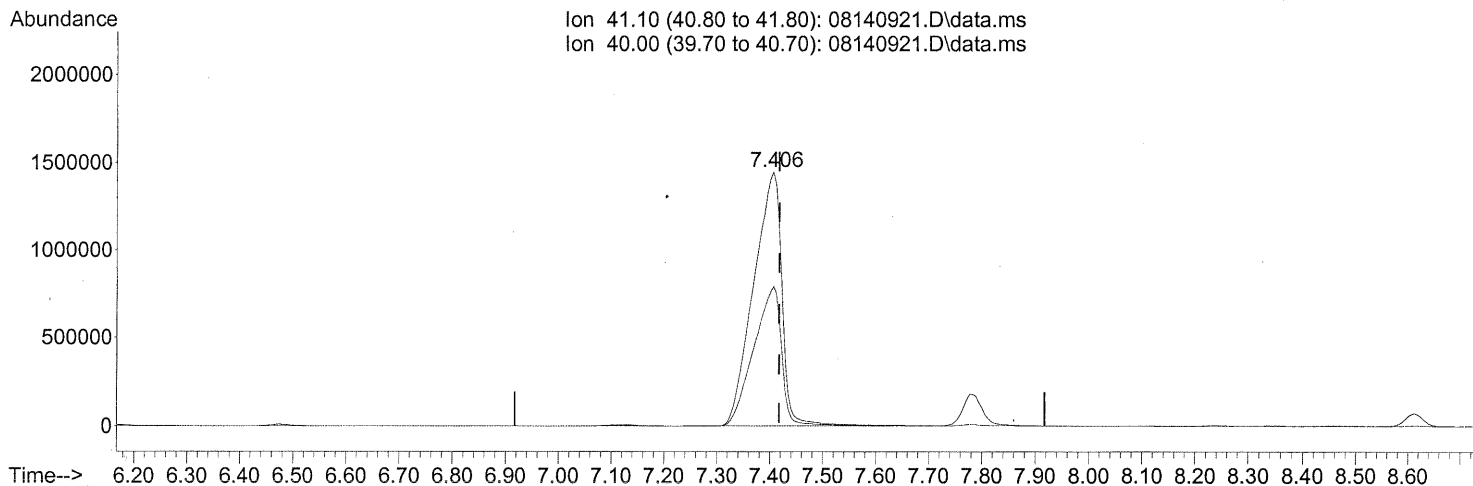
response 1103060

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140921.D
Acq On : 14 Aug 2009 20:05
Operator : WA
Sample : P0902721-002 (1000mL)
Misc : Env. Health & Engineering 100215
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 19 15:19:15 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(11) Acetonitrile (T)
7.406min (-0.011) 217.16ng
response 5382244

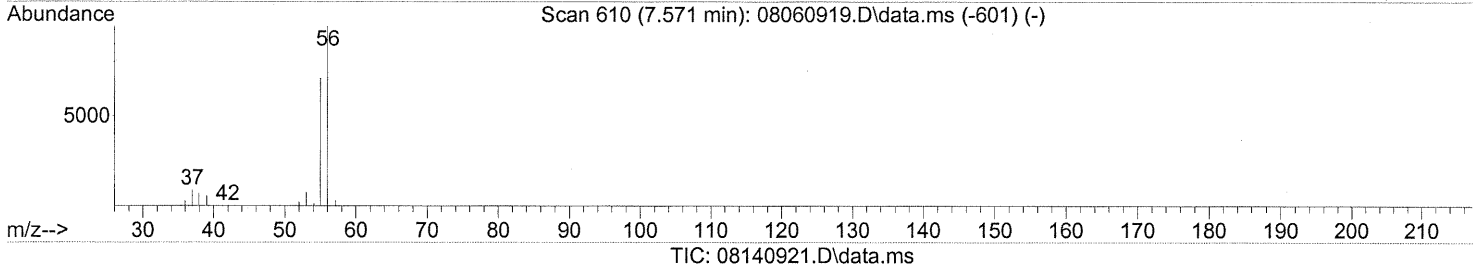
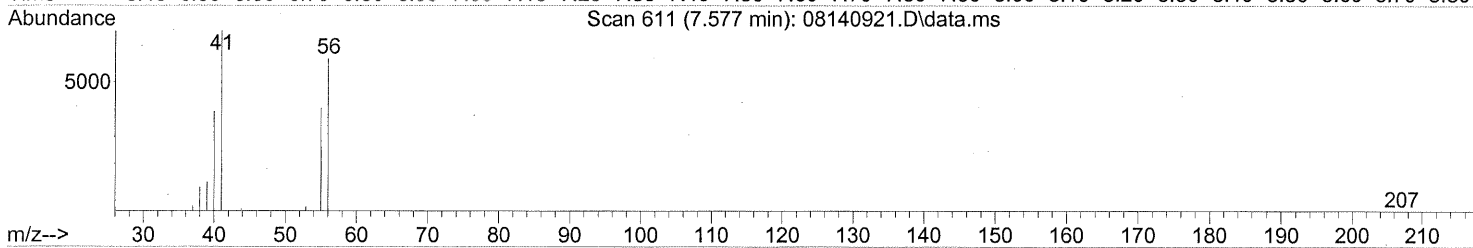
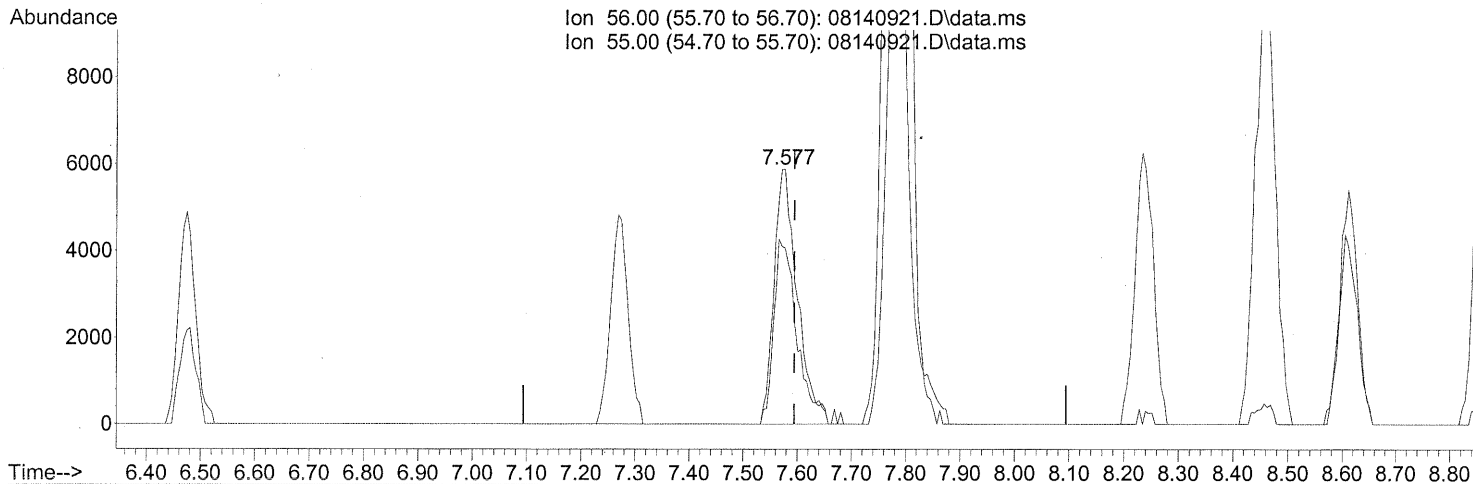
E

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	54.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.577min (-0.017) 2.72ng

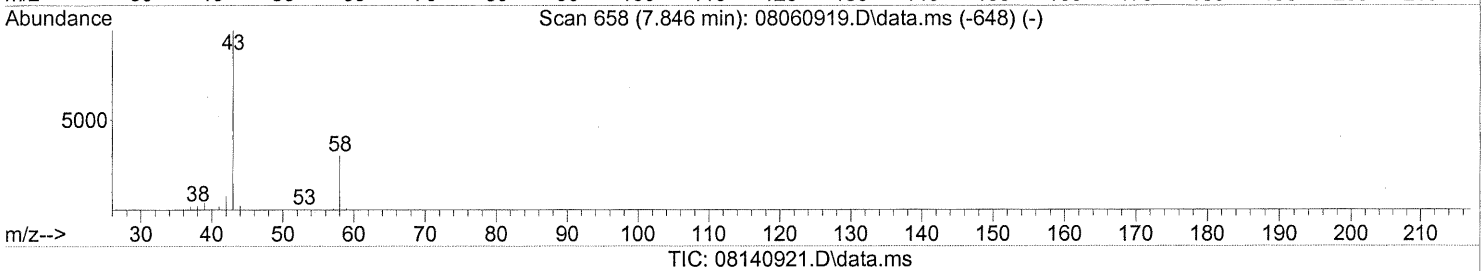
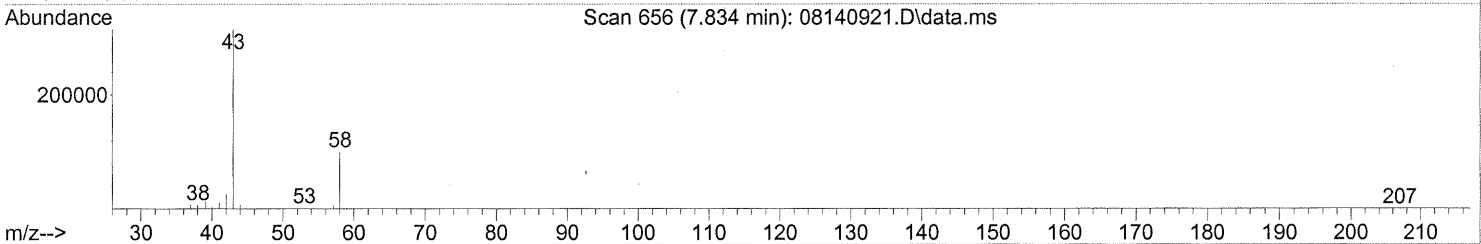
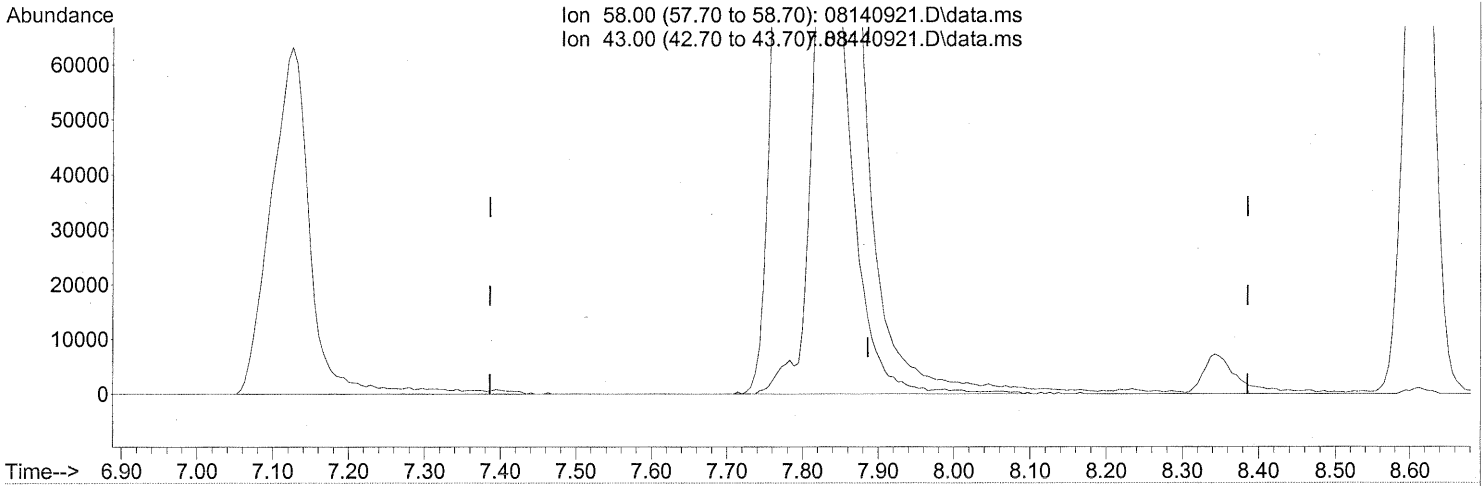
response 17548

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	72.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.834min (-0.052) 41.95ng

response 334977

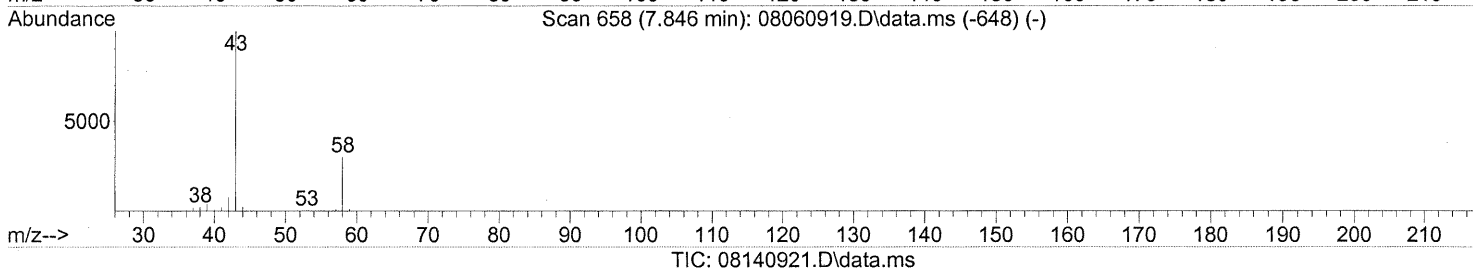
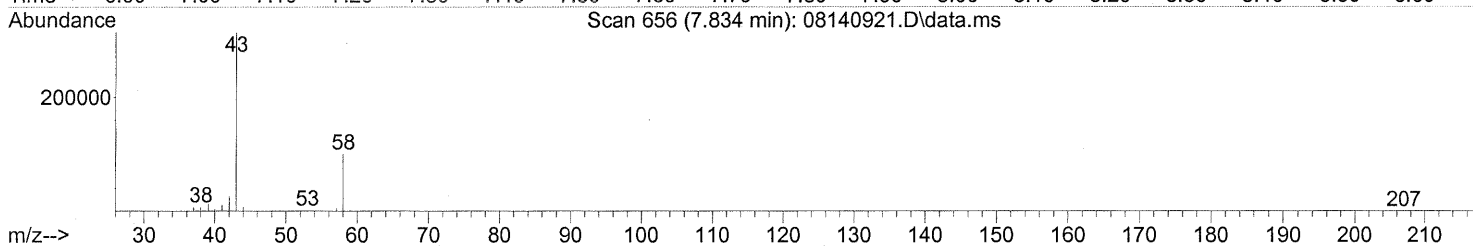
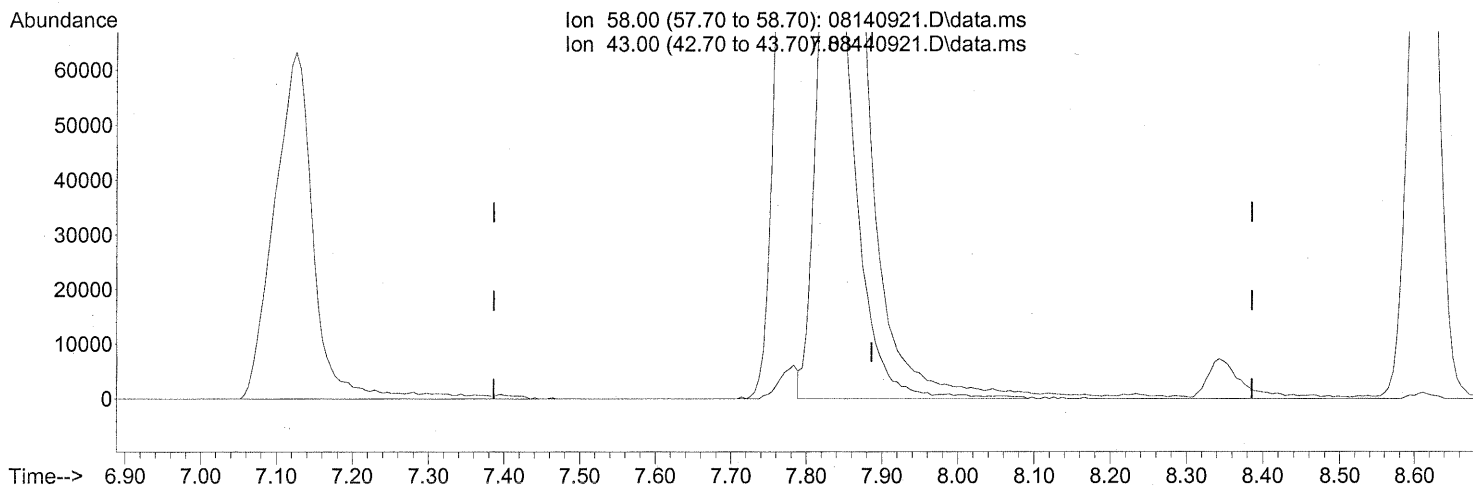
Ion	Exp%	Act%
58.00	100	100
43.00	340.40	316.73
0.00	0.00	0.00
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)
 7.834min (-0.052) 40.63ng m
 response 324462

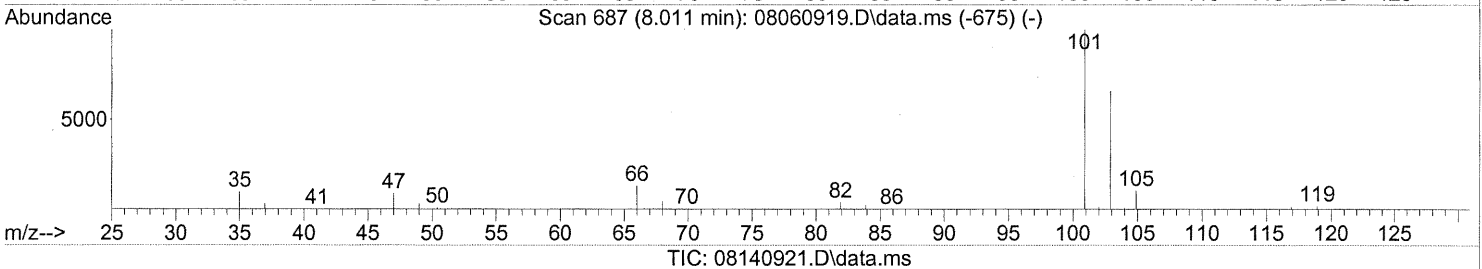
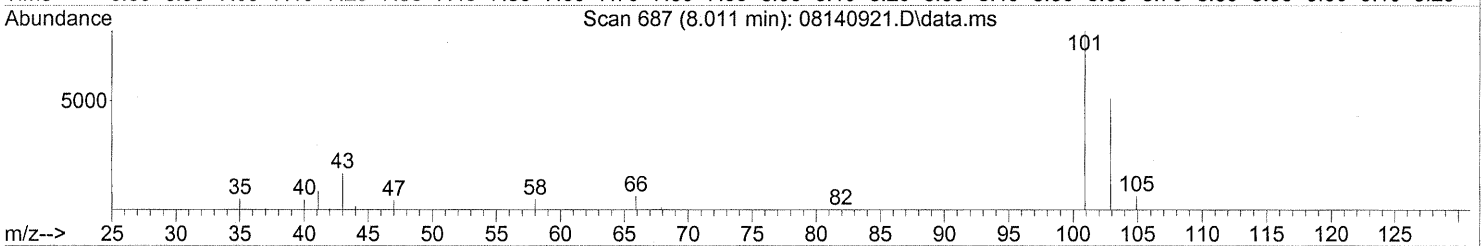
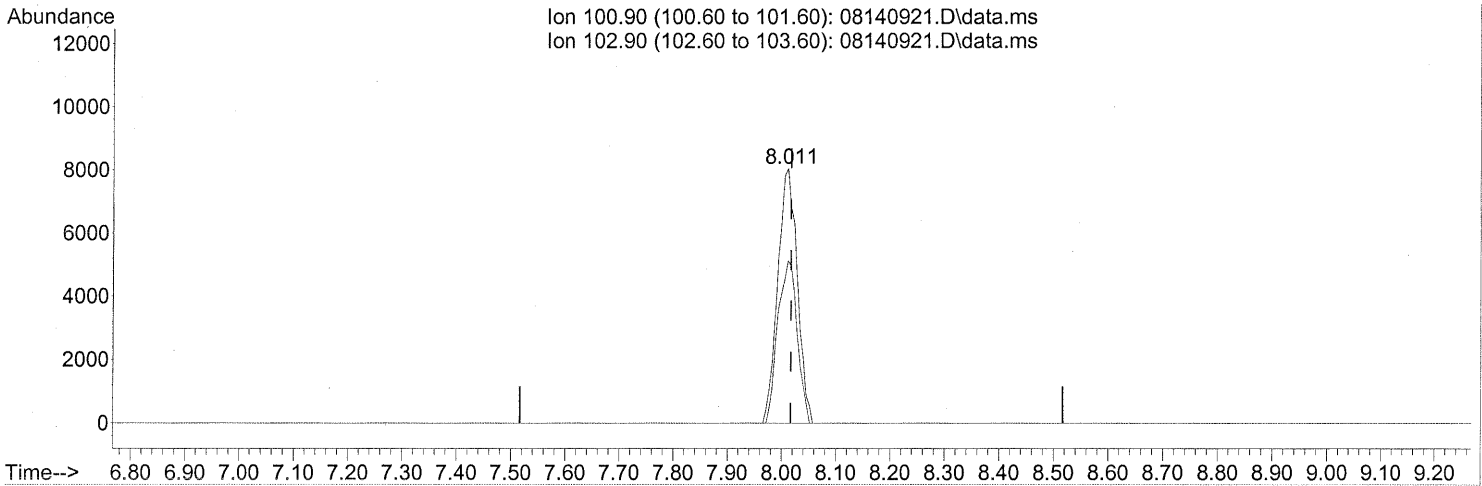
Ion	Exp%	Act%
58.00	100	100
43.00	340.40	327.00
0.00	0.00	0.00
0.00	0.00	0.00

SH → IC
UH 8/20/09
em 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.011min (-0.006) 1.01ng

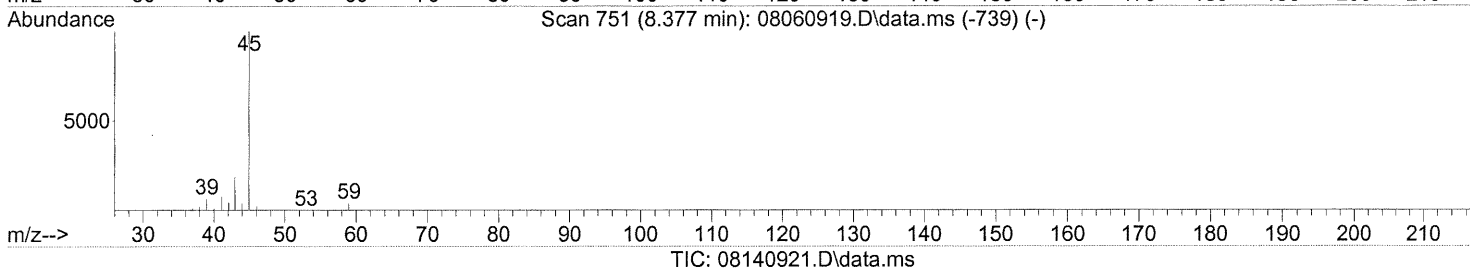
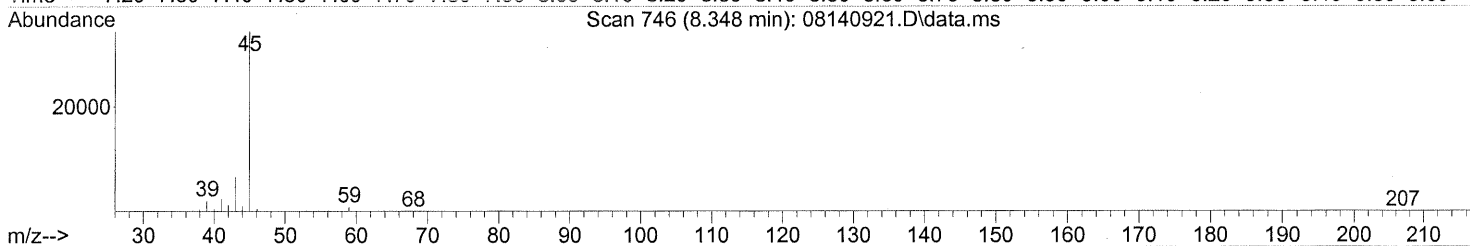
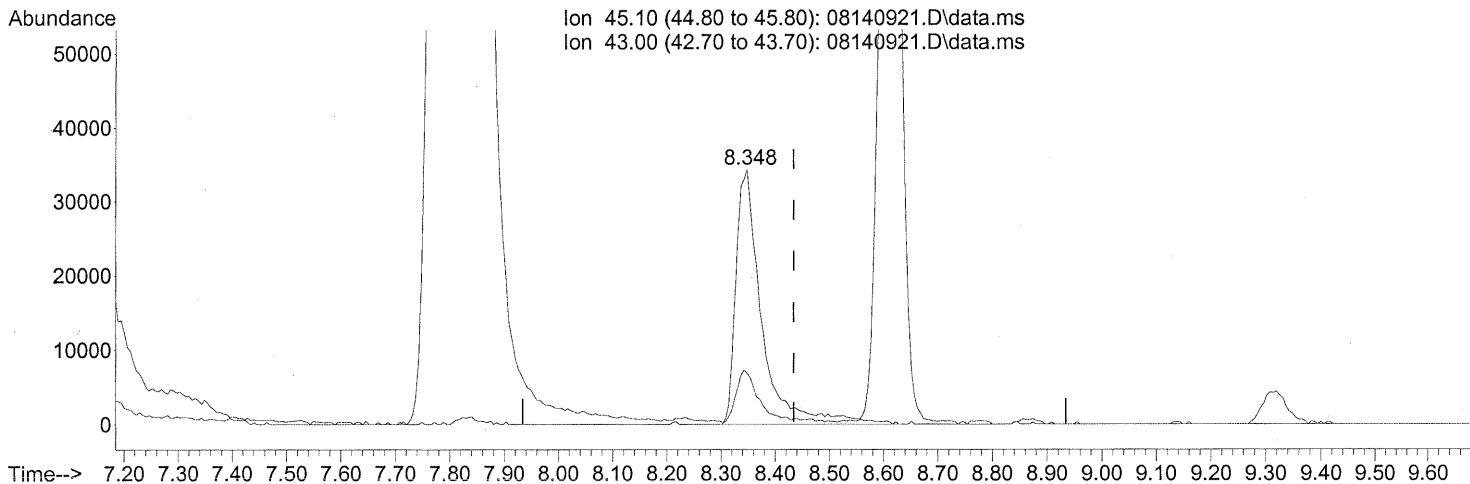
response 20008

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	63.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.348min (-0.085) 3.61ng

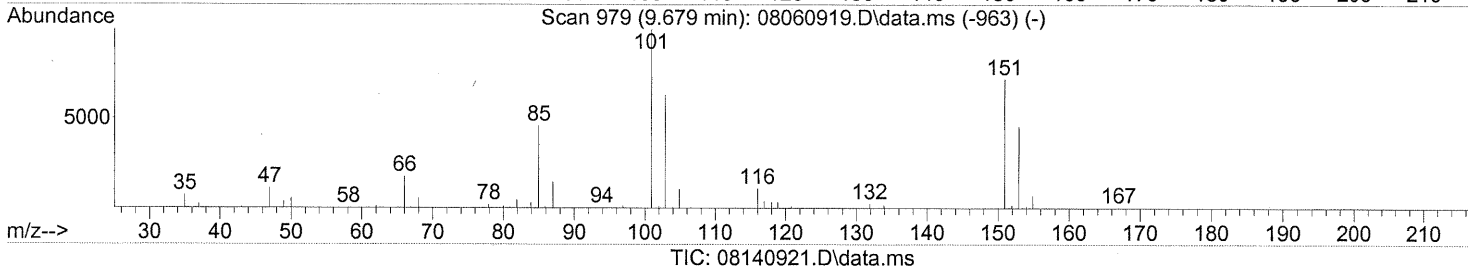
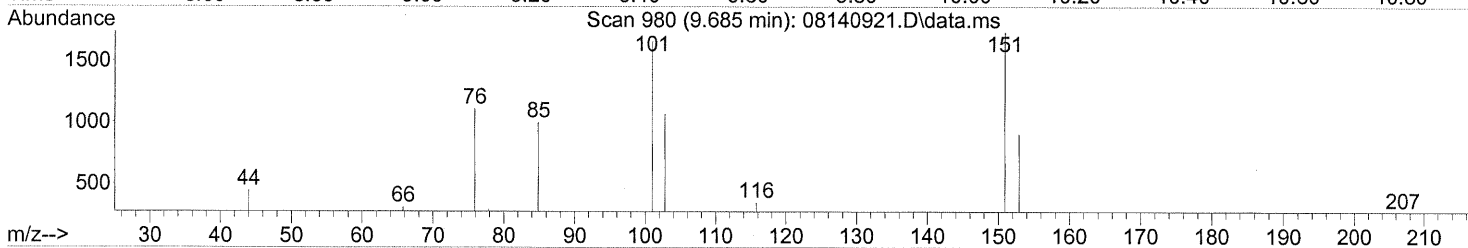
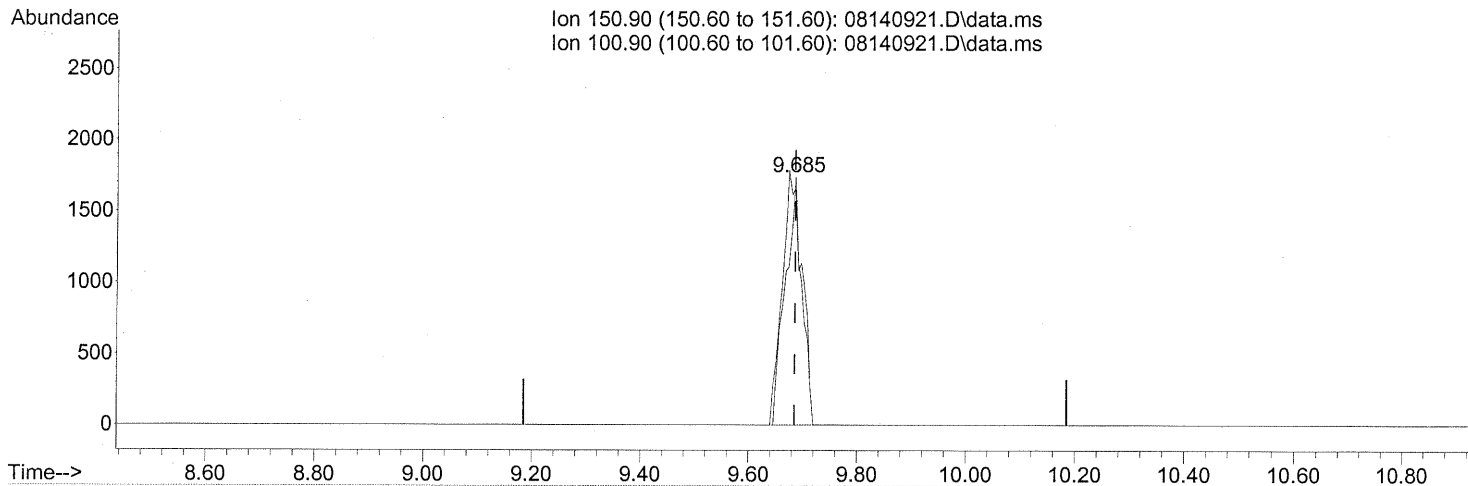
response 113311

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	19.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.685min (+0.000) 0.52ng

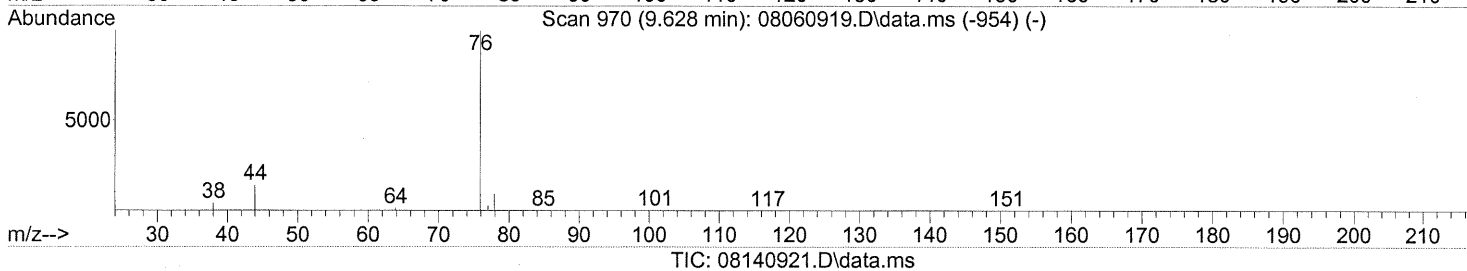
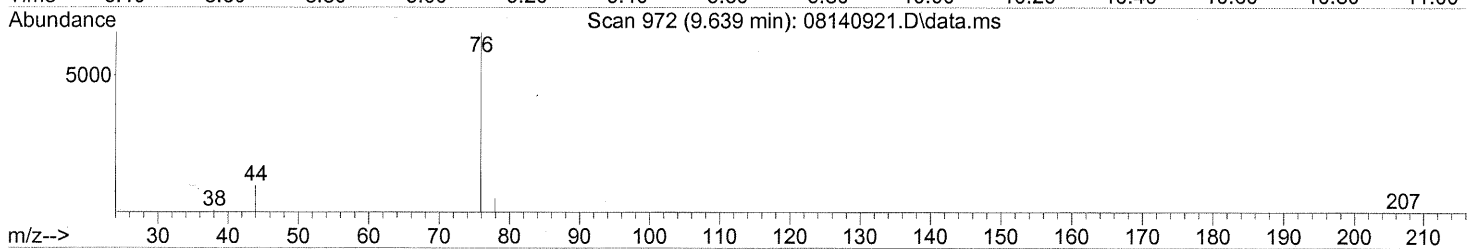
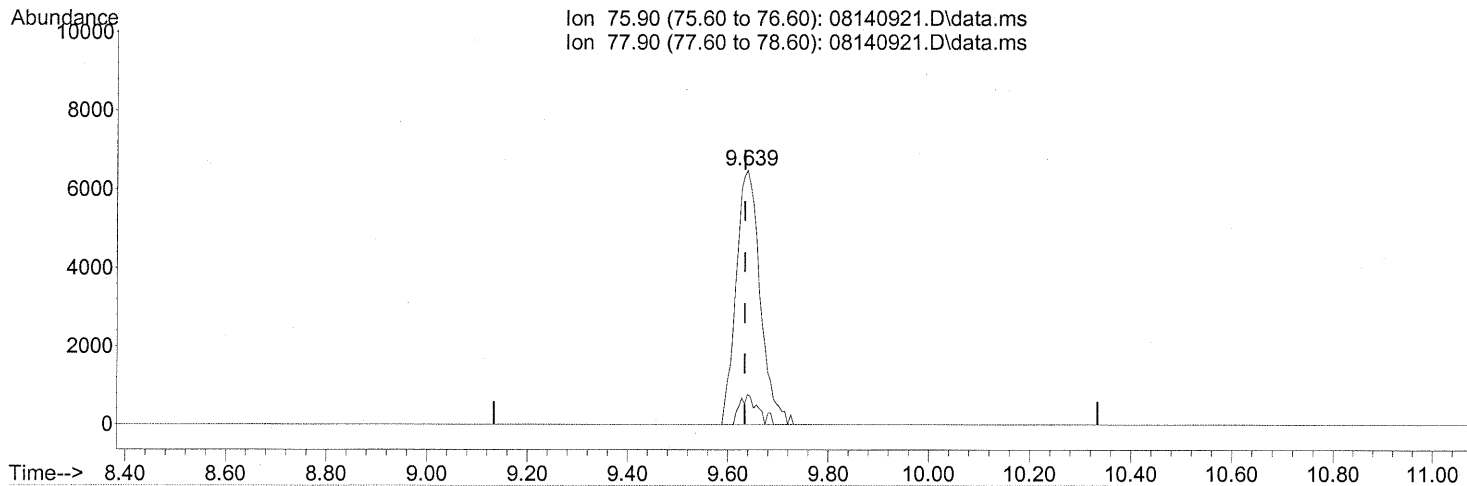
response 3716

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	121.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.639min (+0.006) 0.57ng

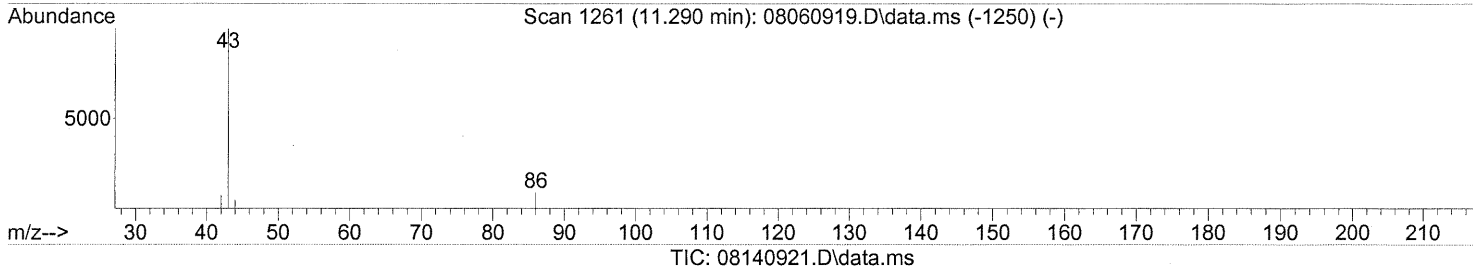
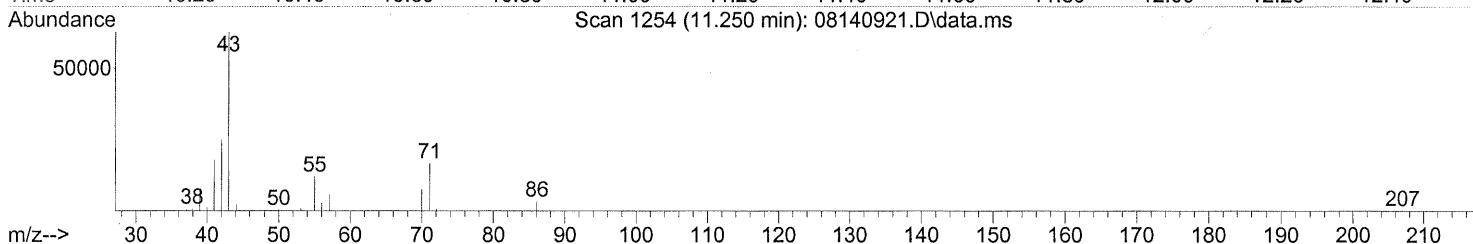
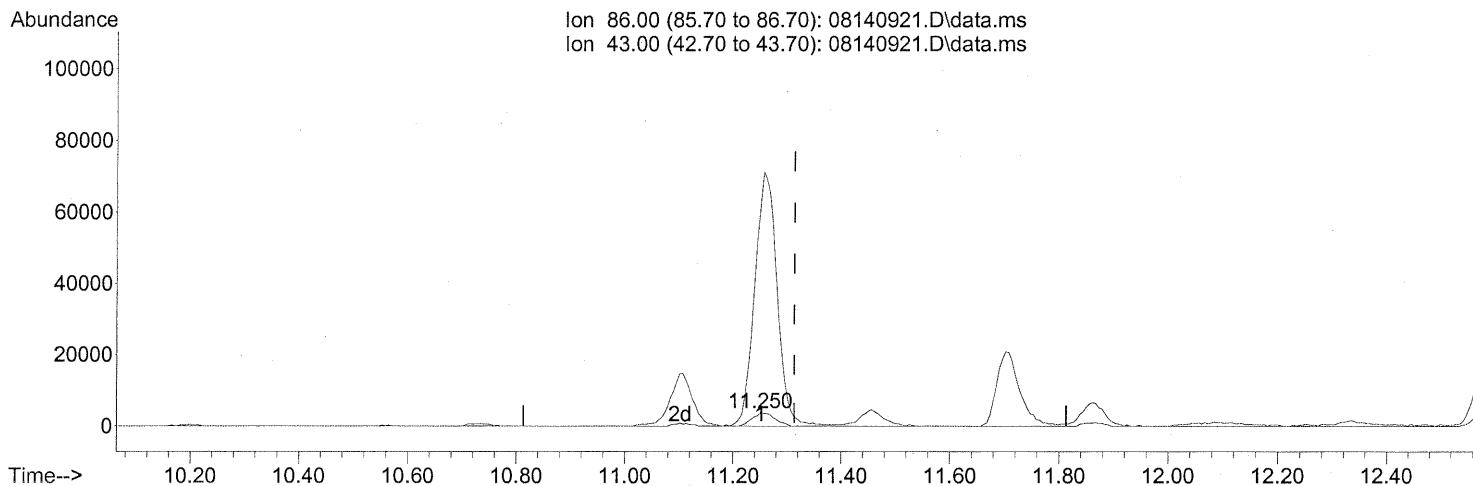
response 21586

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.250min (-0.063) 6.59ng
 response 10717

FP in 8/20/09

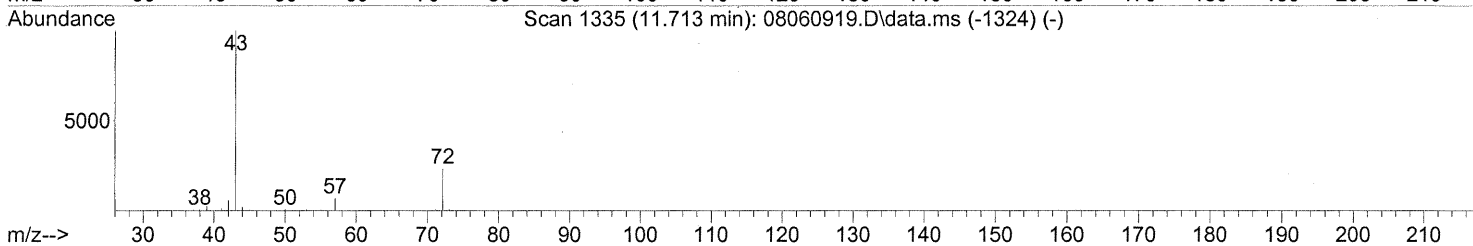
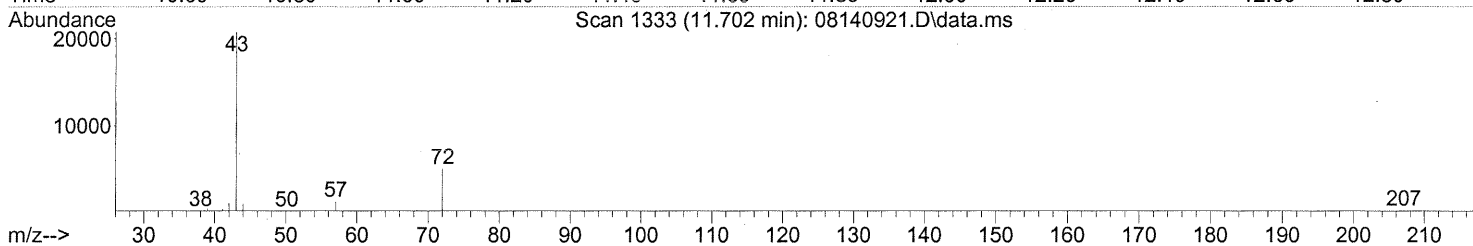
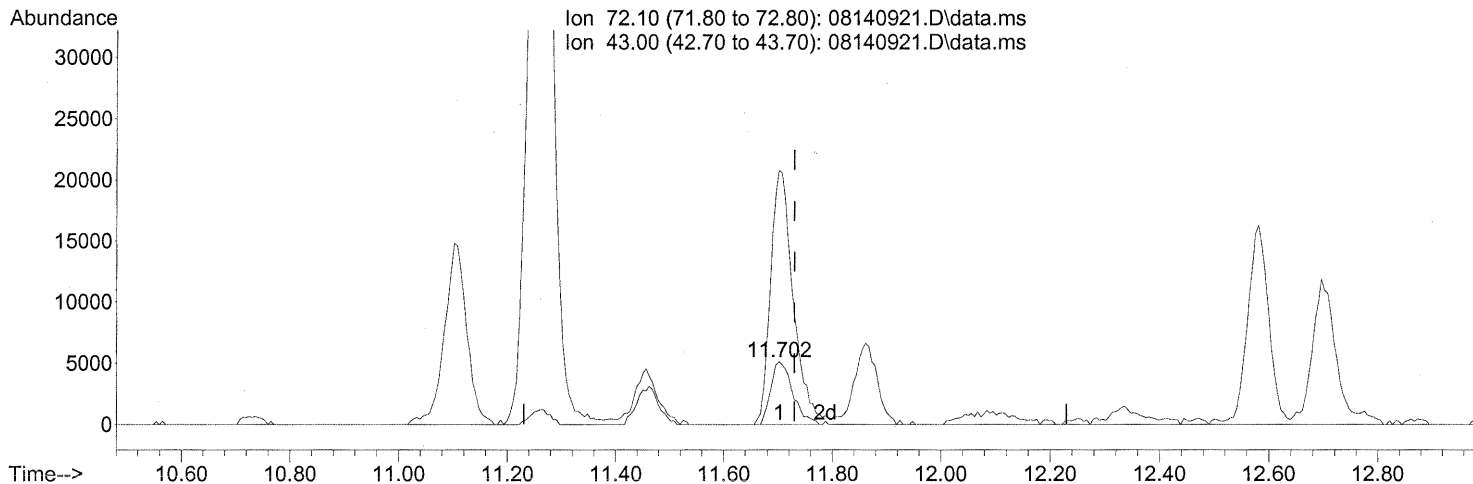
com 8/21/09

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1913.90#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140921.D\data.ms

(27) 2-Butanone (MEK) (T)

11.702min (-0.028) 2.01ng

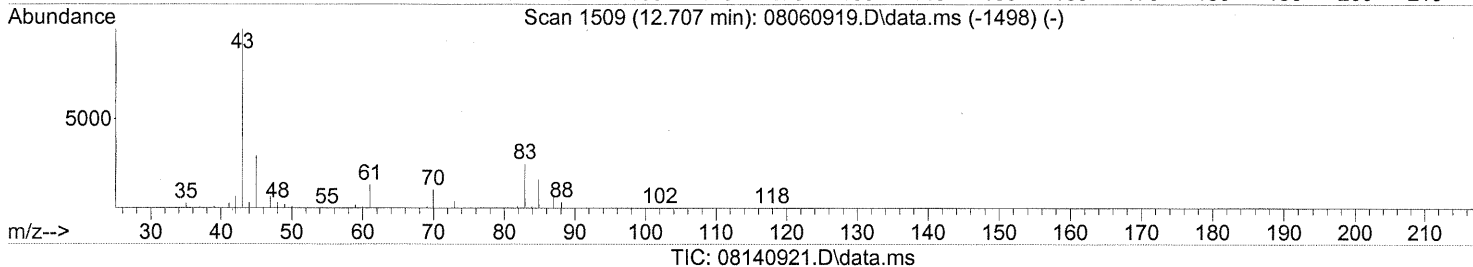
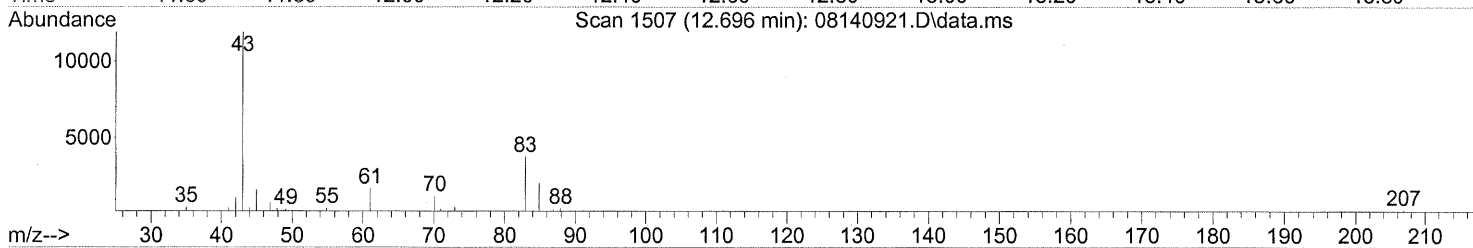
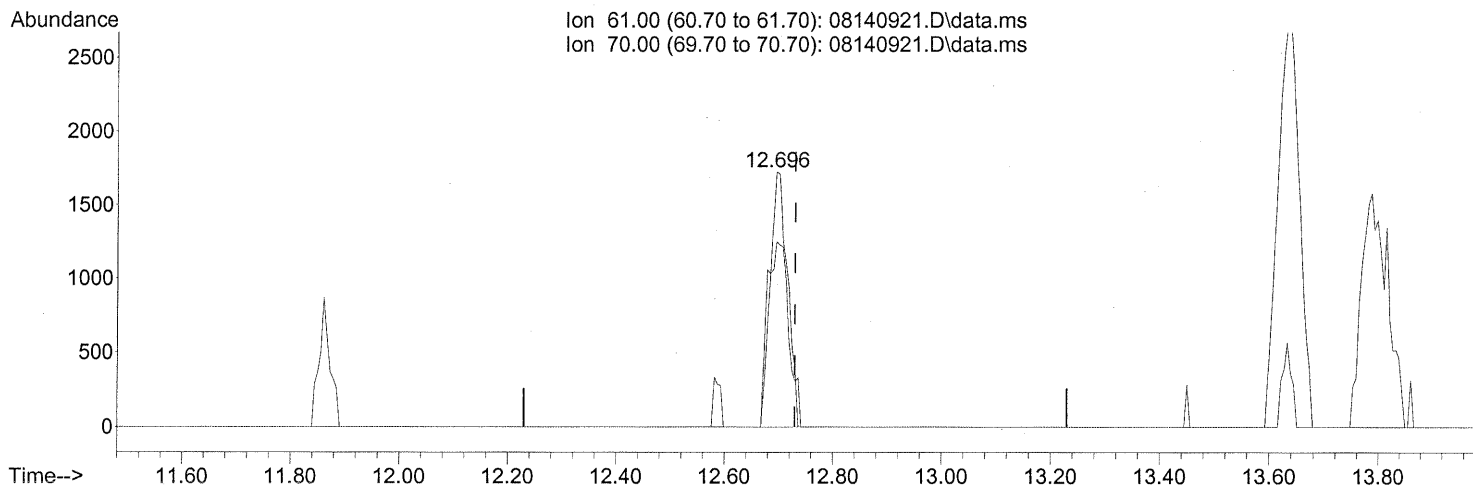
response 14461

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	419.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140921.D
Acq On : 14 Aug 2009 20:05
Operator : WA
Sample : P0902721-002 (1000mL)
Misc : Env. Health & Engineering 100215
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.696min (-0.034) 1.07ng

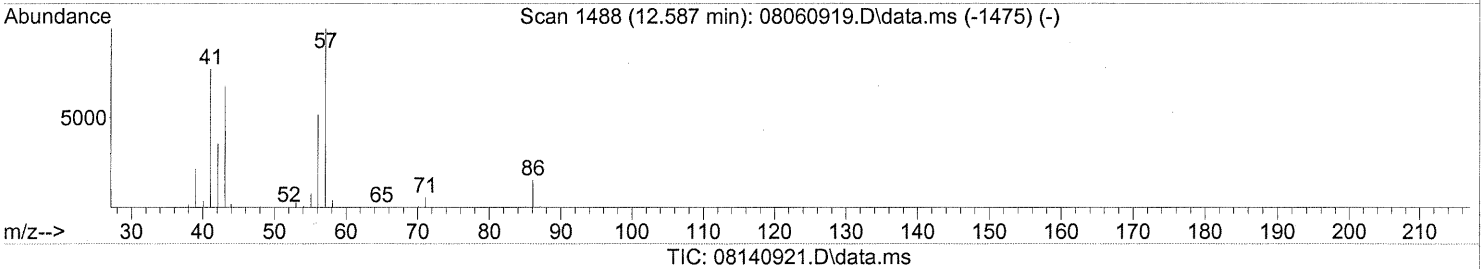
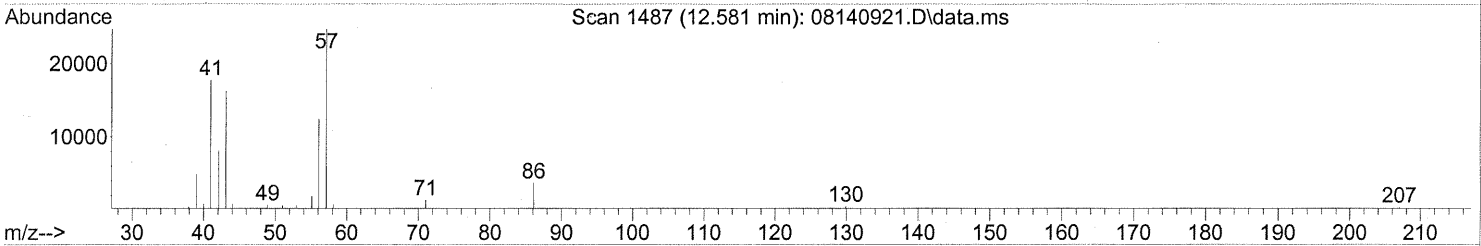
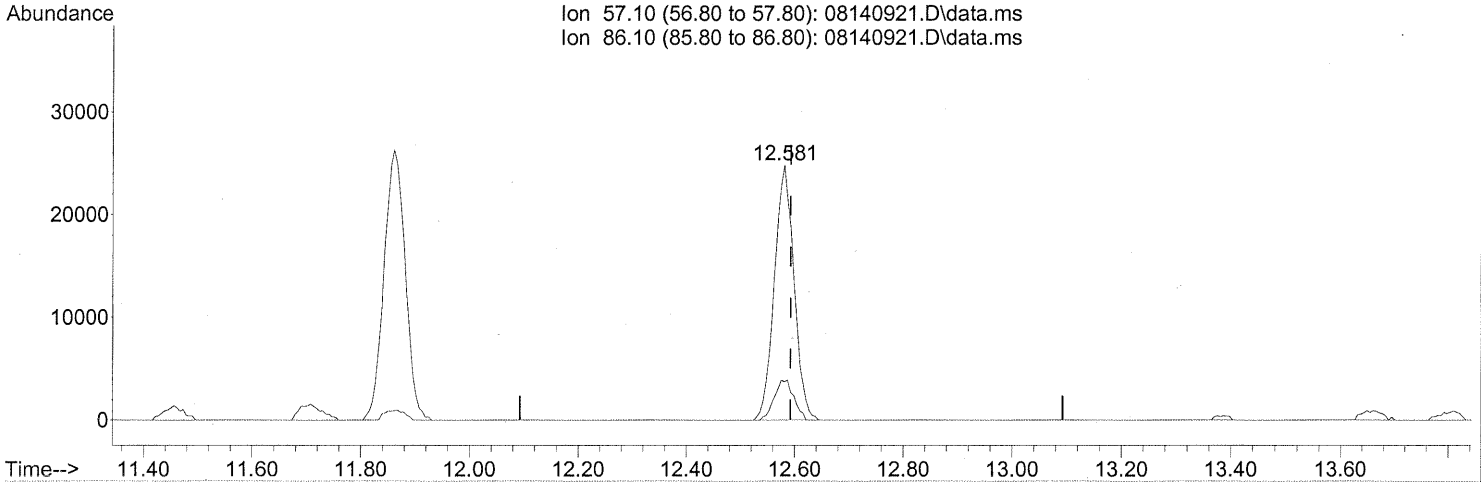
response 4011

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	79.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



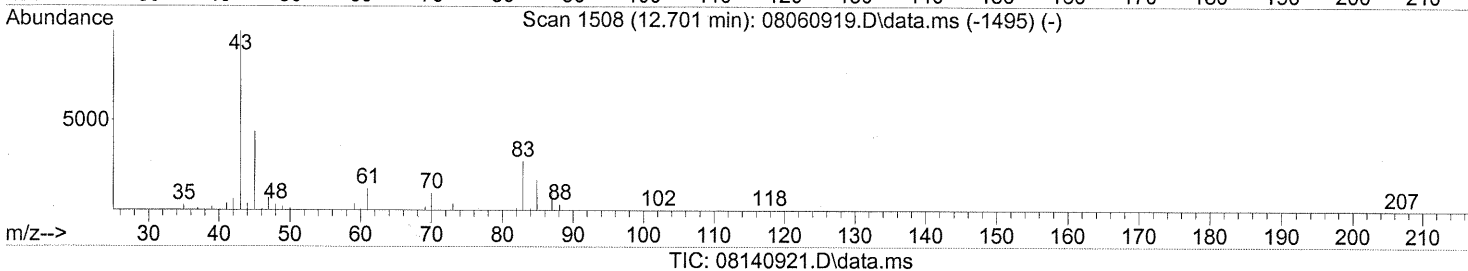
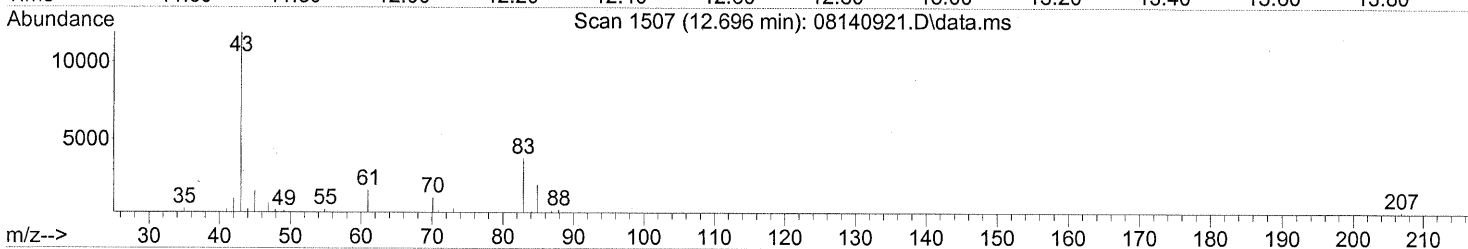
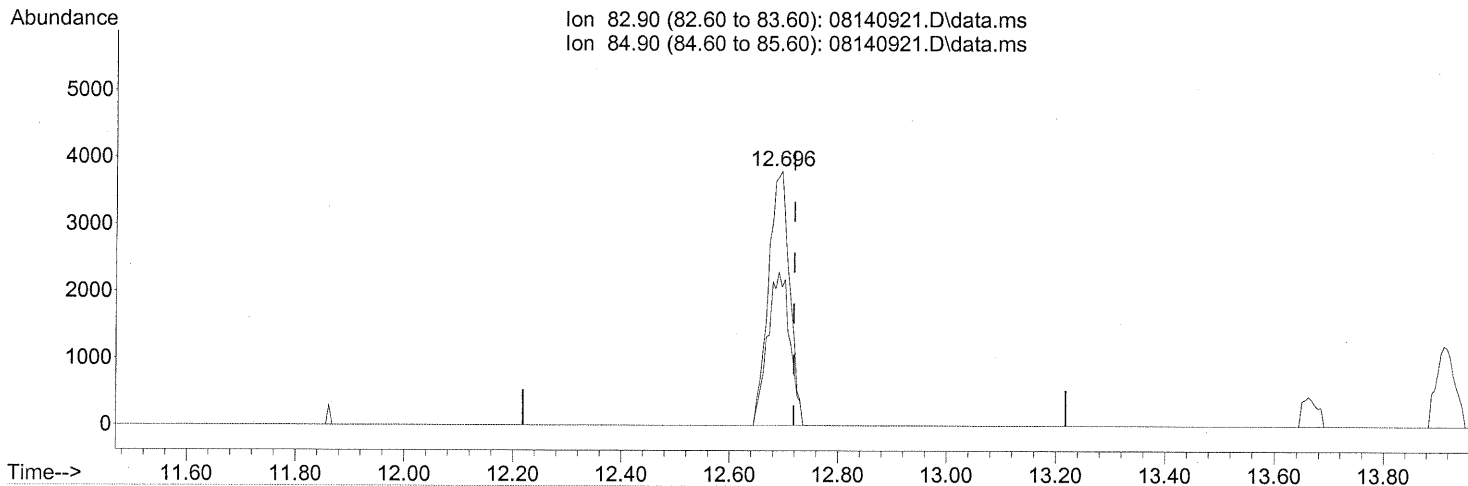
(31) n-Hexane (T)
 12.581min (-0.011) 3.22ng
 response 61865

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140921.D
Acq On : 14 Aug 2009 20:05
Operator : WA
Sample : P0902721-002 (1000mL)
Misc : Env. Health & Engineering 100215
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



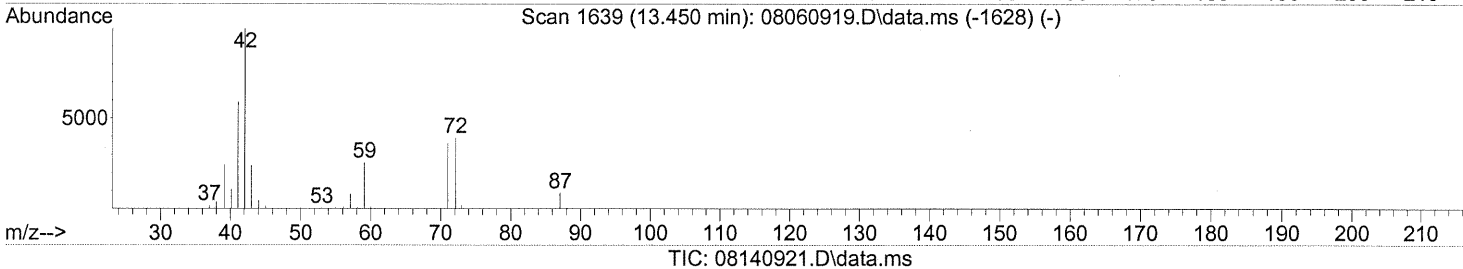
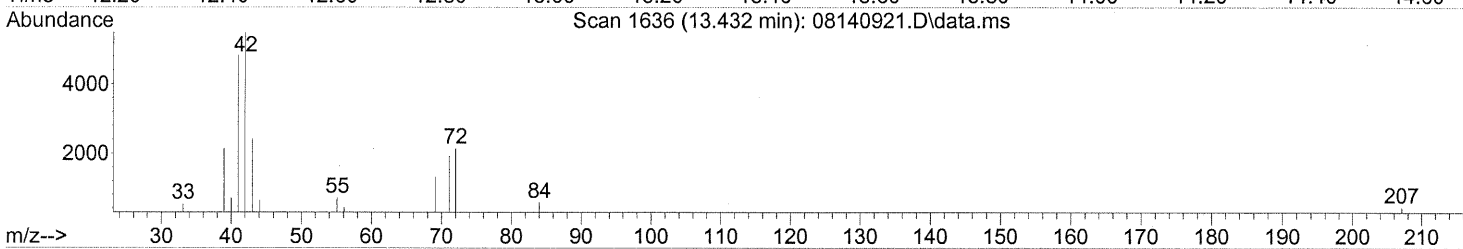
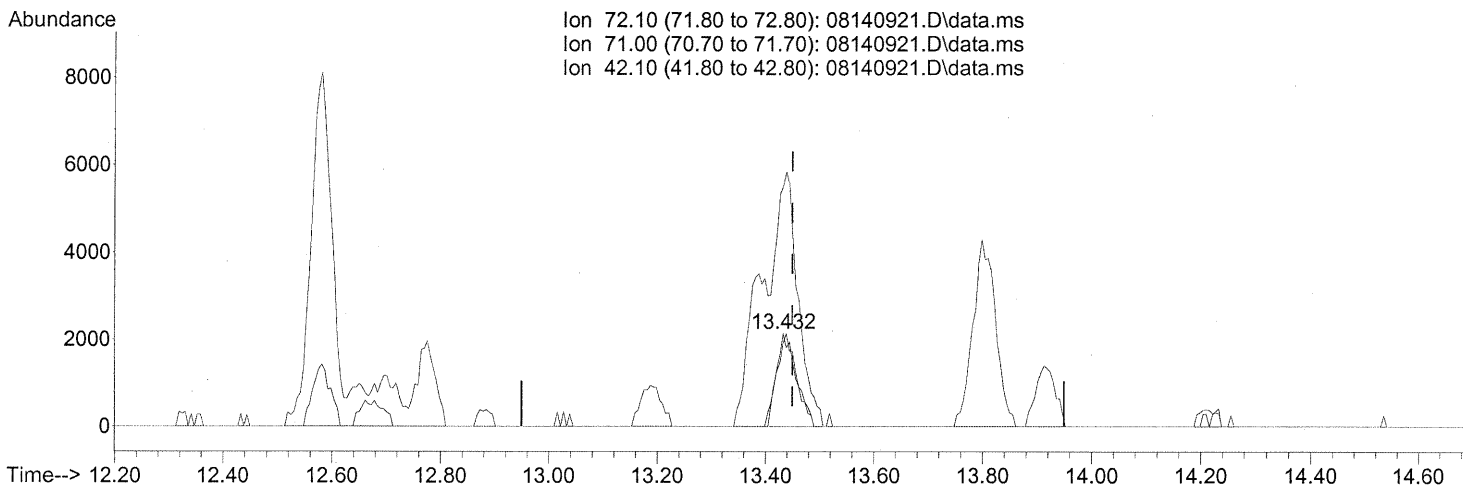
(32) Chloroform (T)
12.696min (-0.023) 0.61ng
response 10281

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	63.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.432min (-0.017) 0.72ng

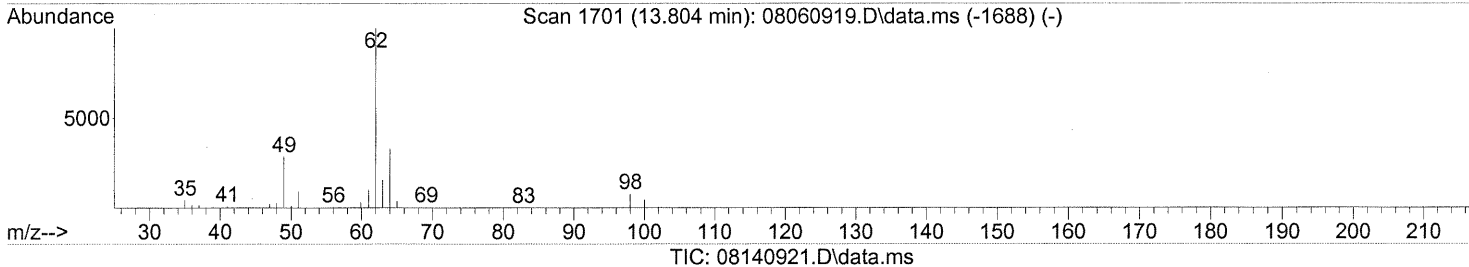
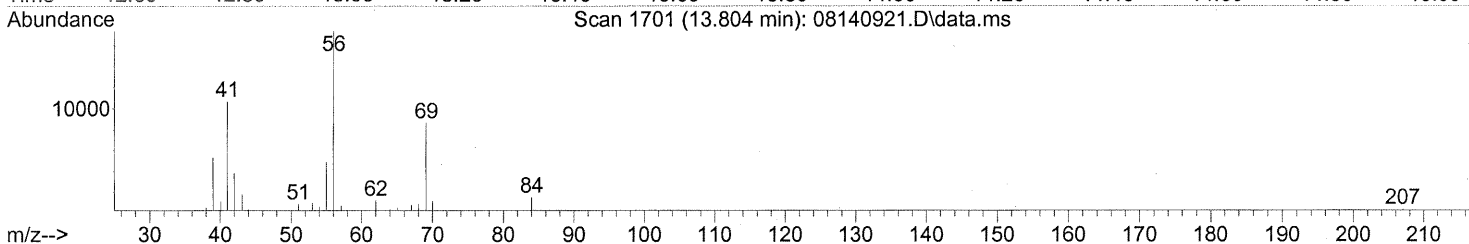
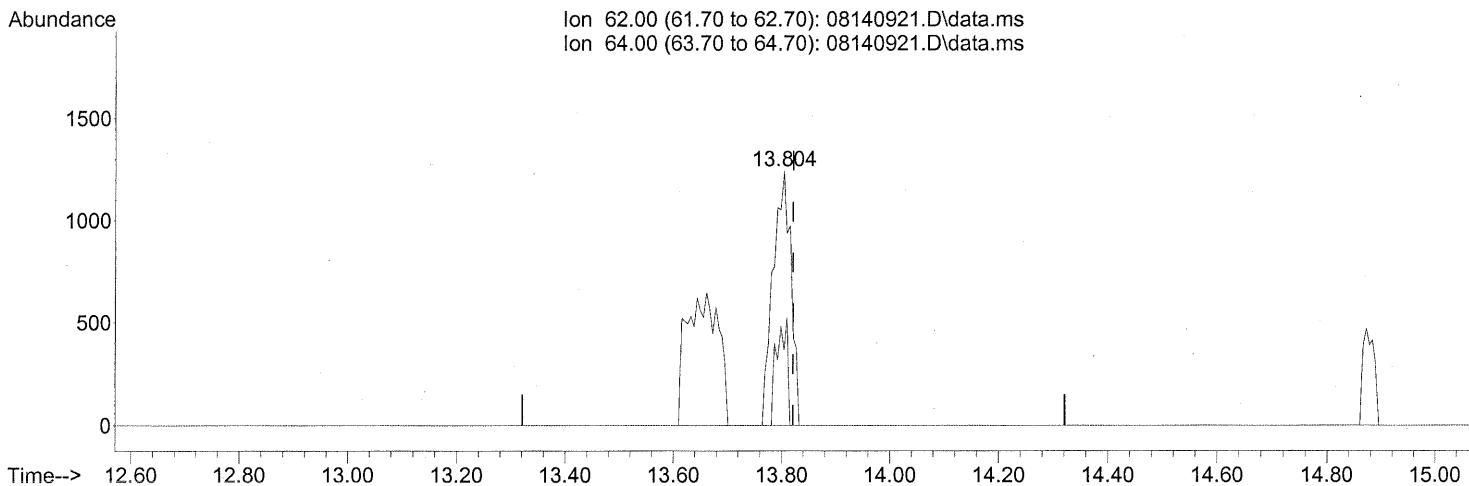
response 5569

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	95.92
42.10	253.40	296.27#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



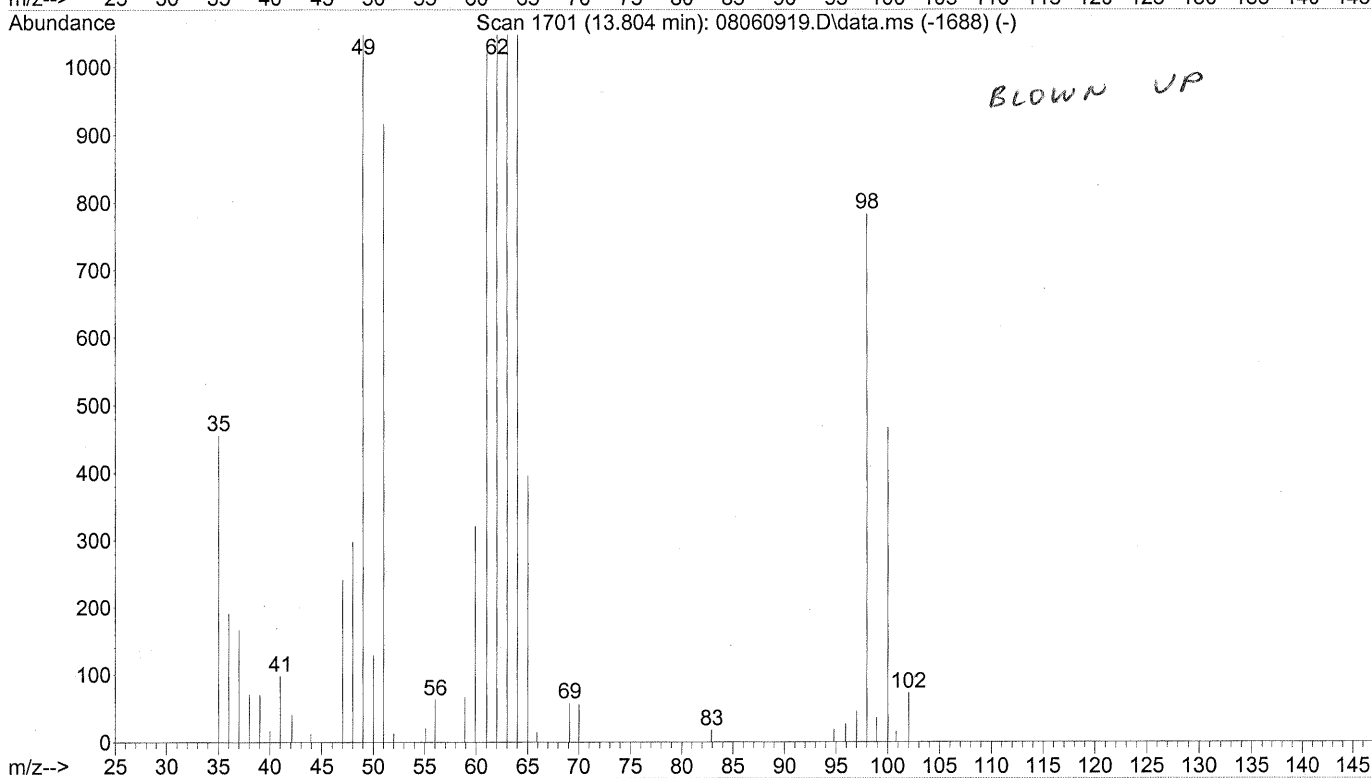
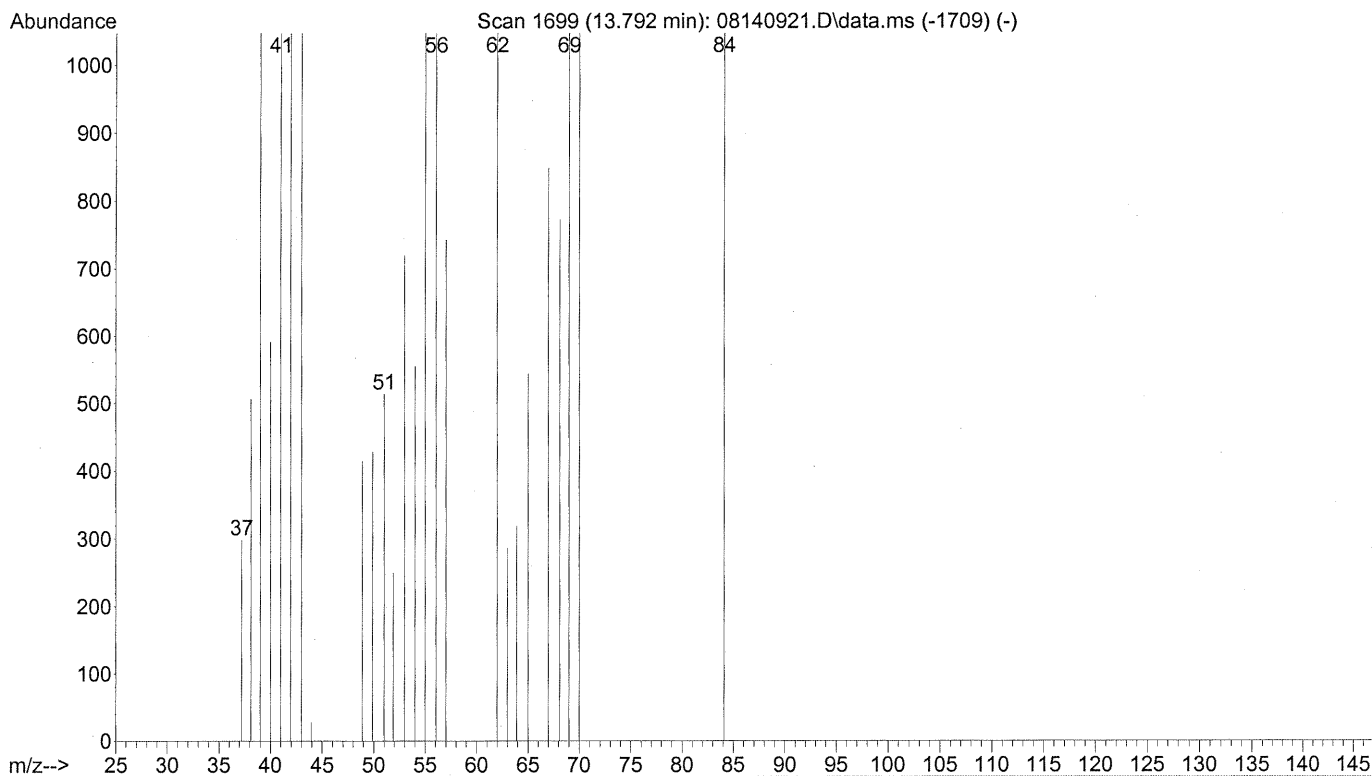
(36) 1,2-Dichloroethane (T)

13.804min (-0.017) 0.18ng

response 2827

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	25.36
0.00	0.00	0.00
0.00	0.00	0.00

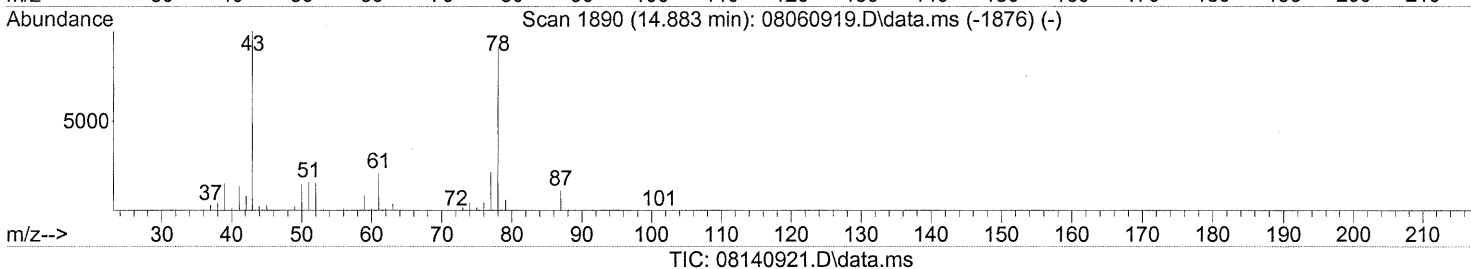
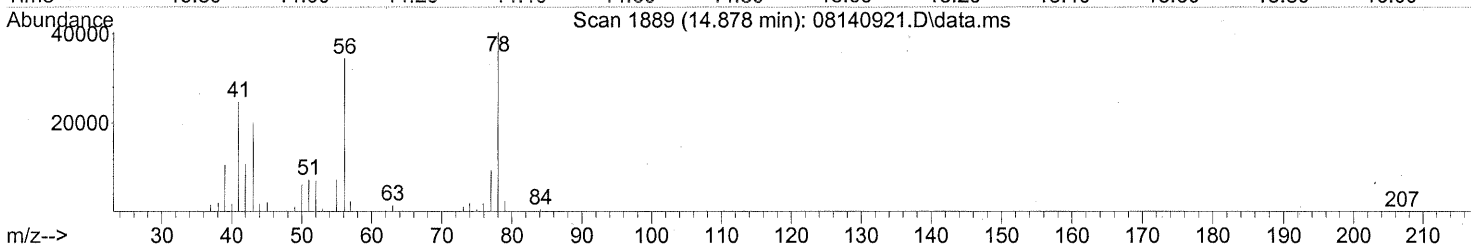
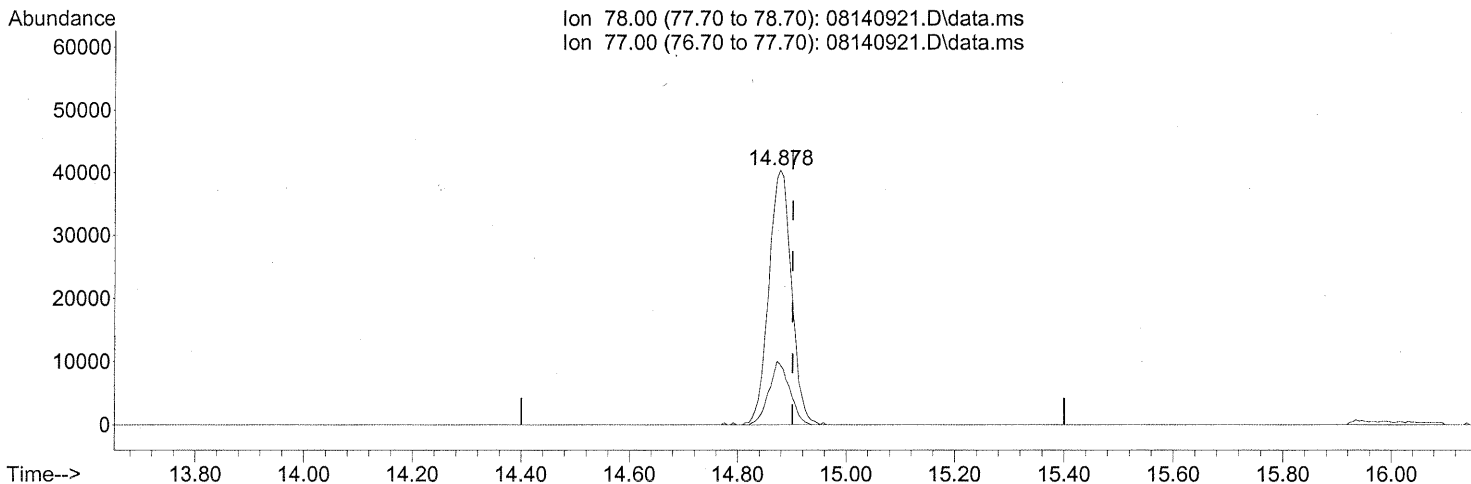
File : J:\MS13\DATA\2009_08\14\08140921.D
Operator : WA
Acquired : 14 Aug 2009 20:05 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0902721-002 (1000mL)
Misc Info : Env. Health & Engineering 100215
Vial Number: 6



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140921.D
Acq On : 14 Aug 2009 20:05
Operator : WA
Sample : P0902721-002 (1000mL)
Misc : Env. Health & Engineering 100215
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(41) Benzene (T)

14.878min (-0.023) 2.71ng

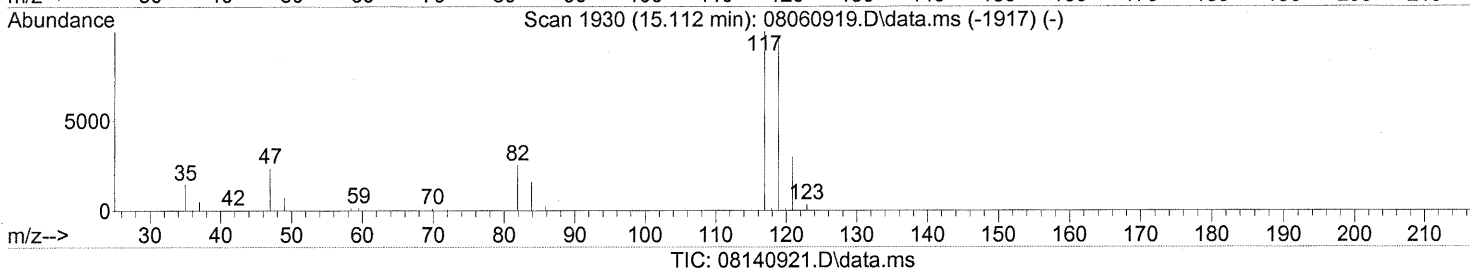
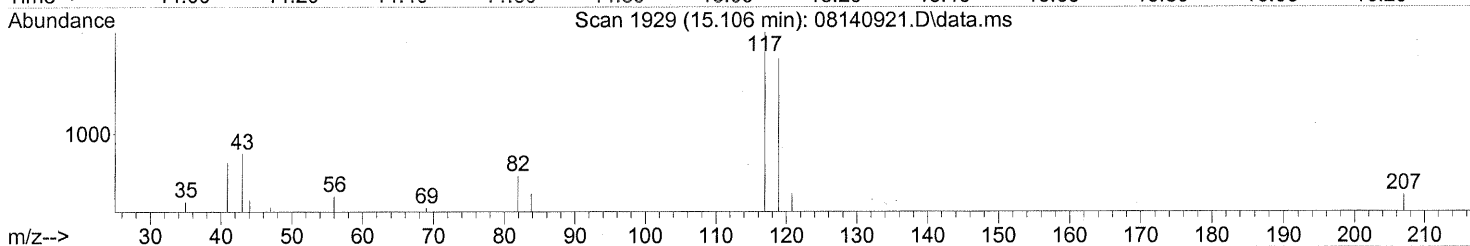
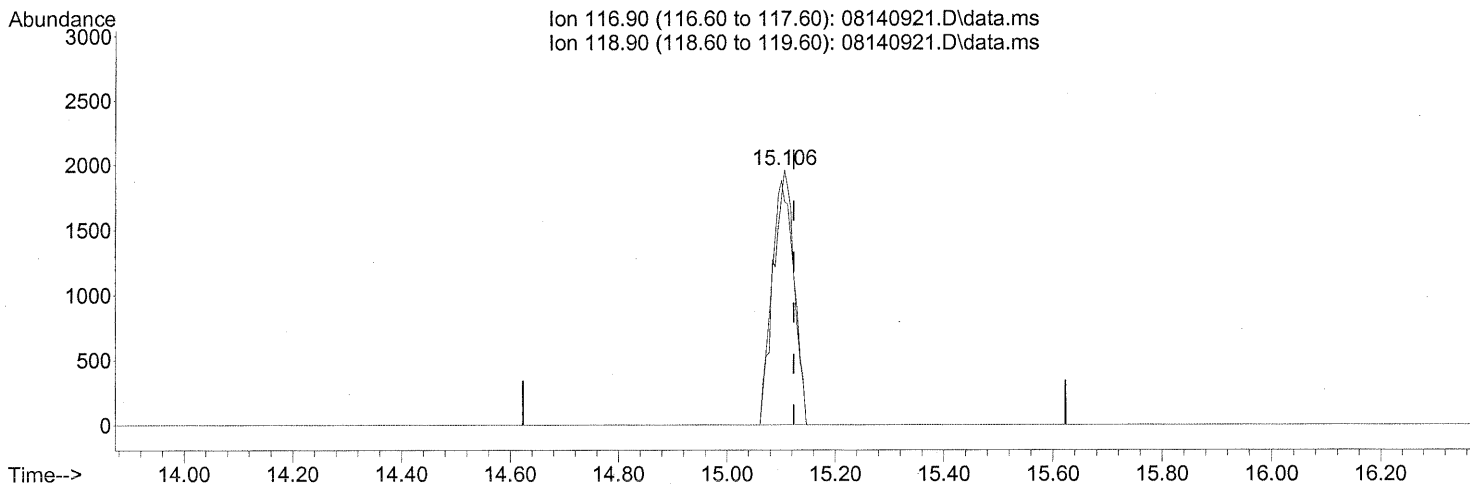
response 116386

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	22.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140921.D
Acq On : 14 Aug 2009 20:05
Operator : WA
Sample : P0902721-002 (1000mL)
Misc : Env. Health & Engineering 100215
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.39ng

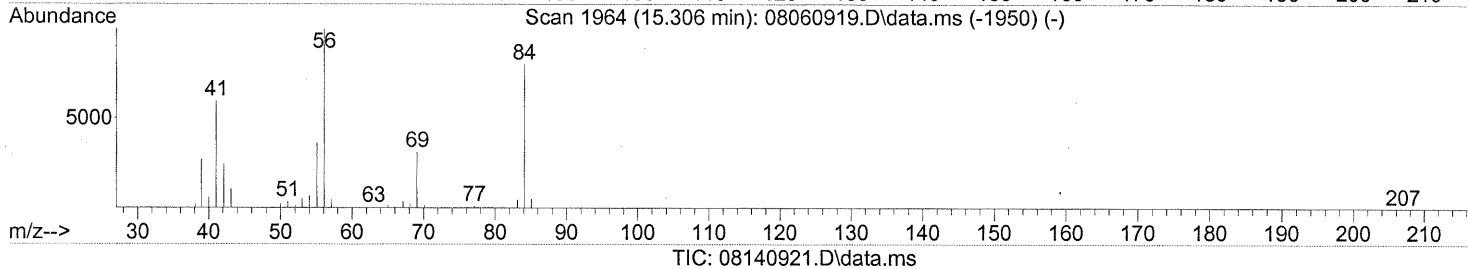
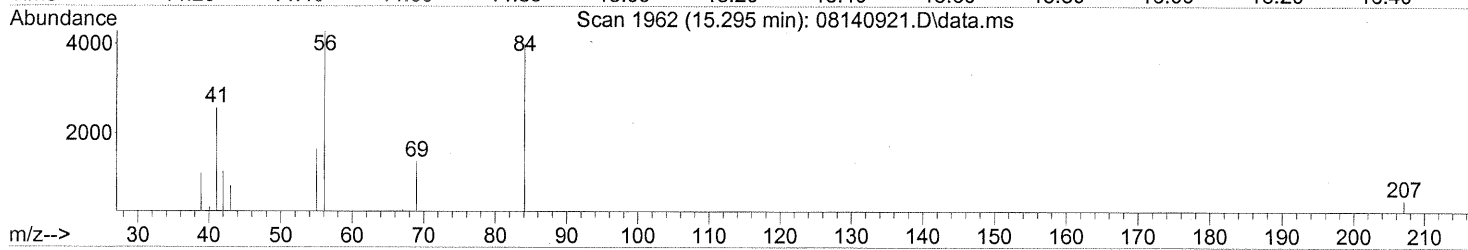
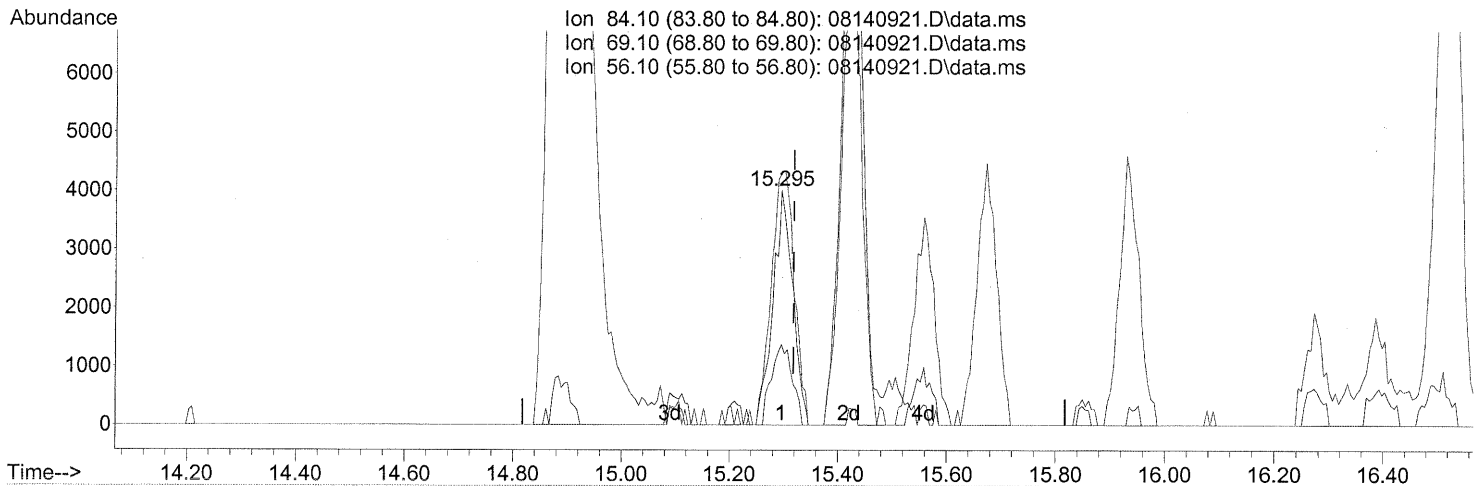
response 5306

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	100.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



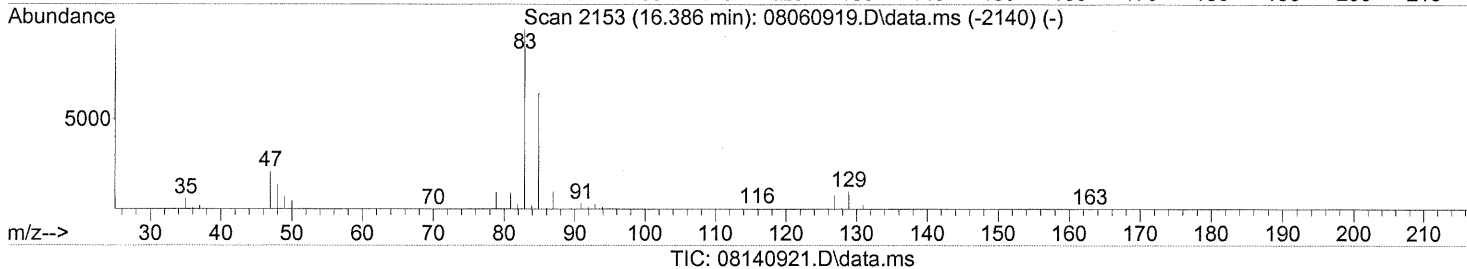
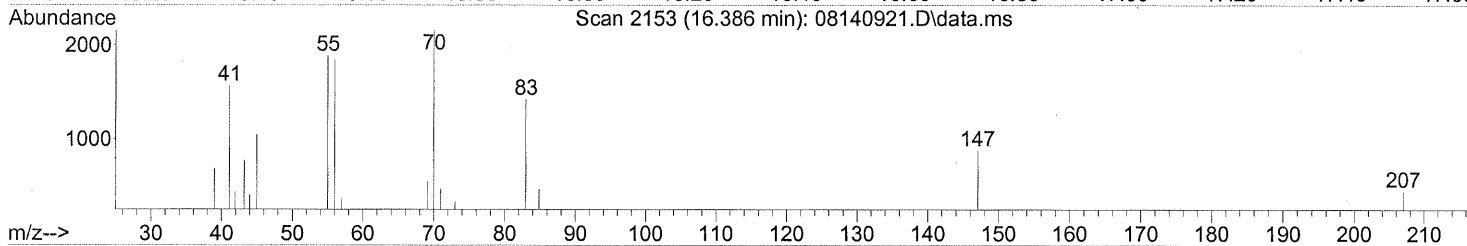
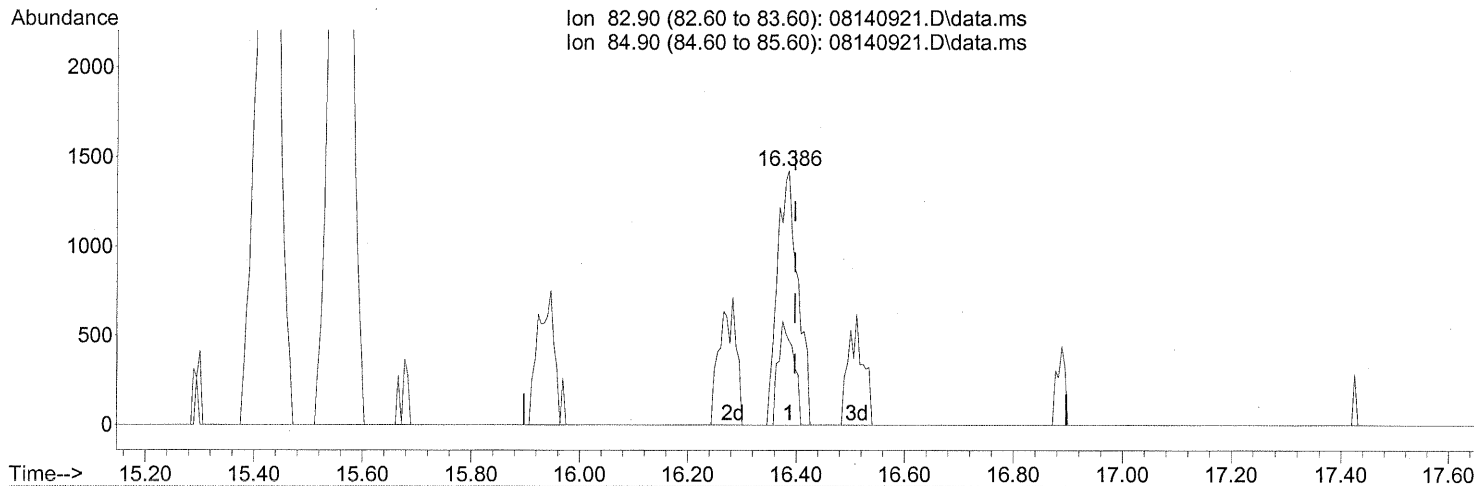
(43) Cyclohexane (T)
 15.295min (-0.023) 0.65ng
 response 10171

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	36.52
56.10	127.50	126.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.386min (-0.011) 0.26ng

response 3722

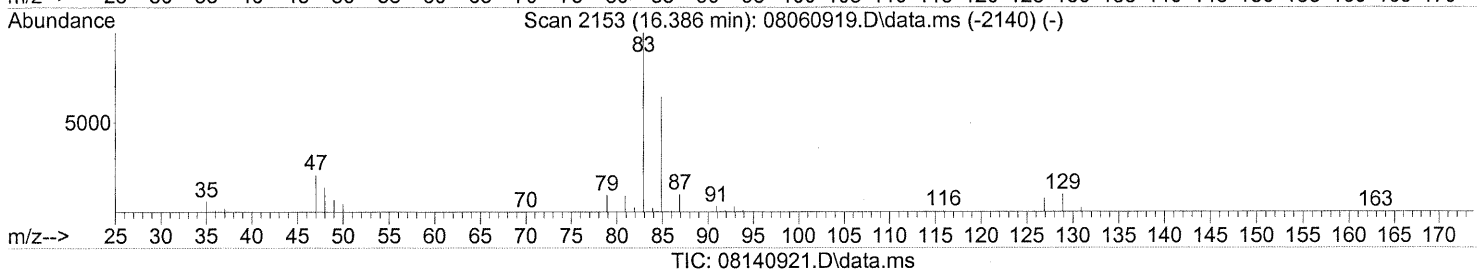
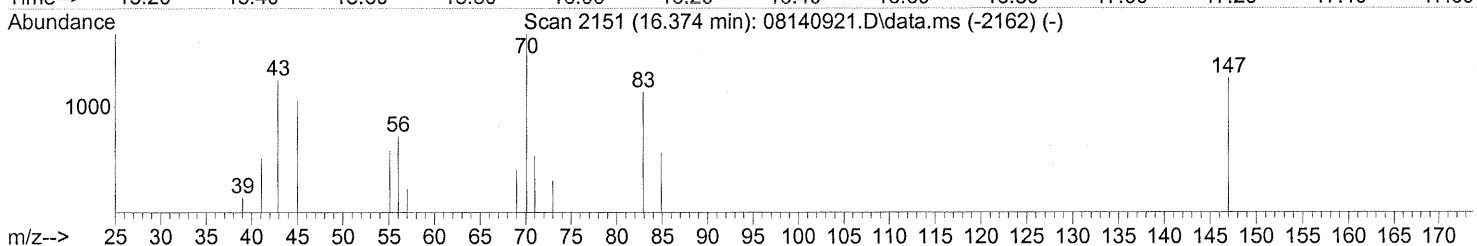
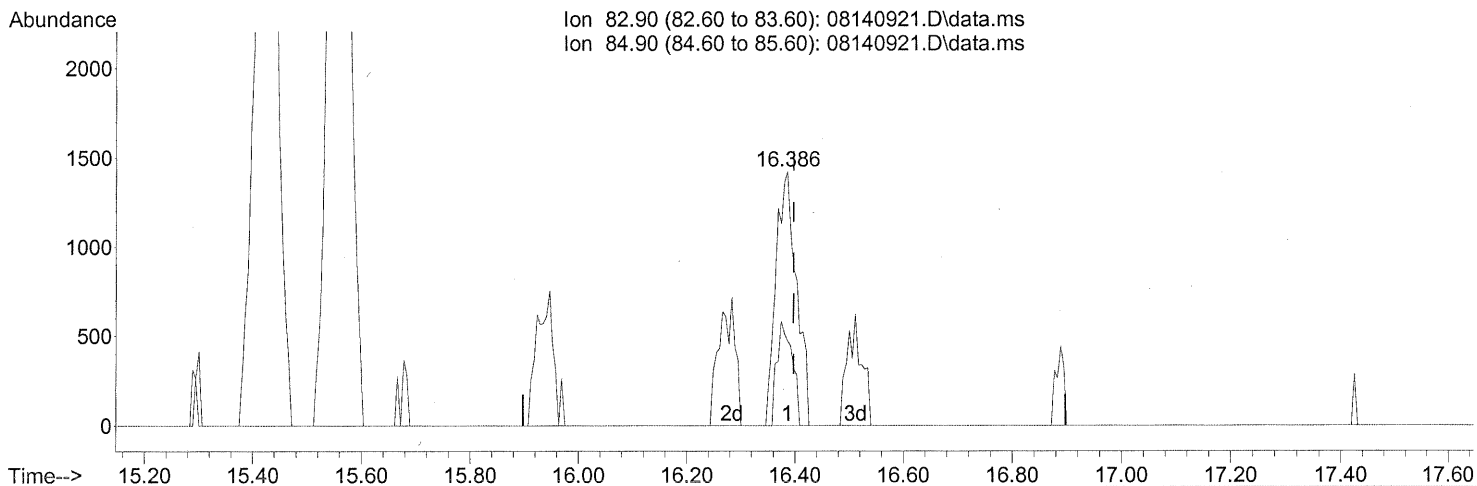
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	30.47#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.386min (-0.011) 0.26ng

response 3722

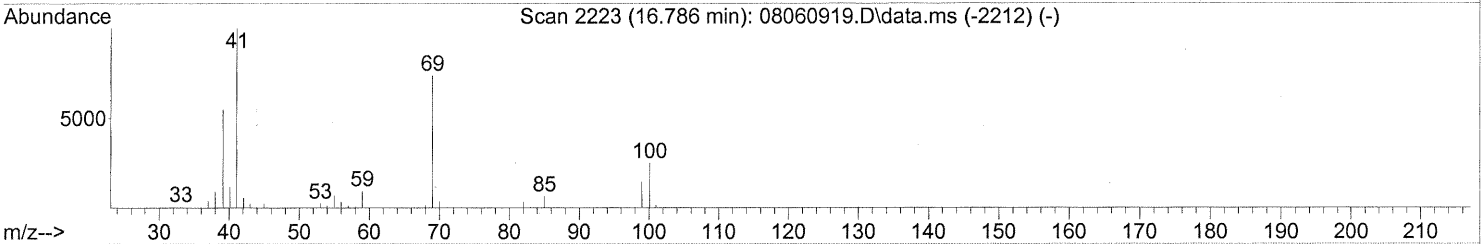
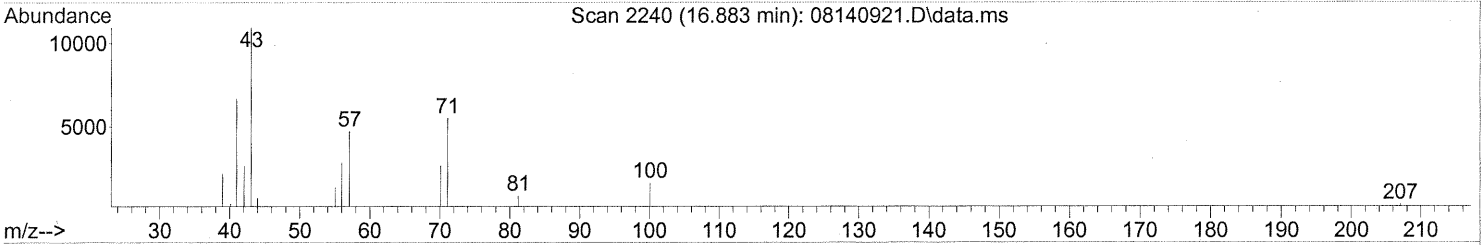
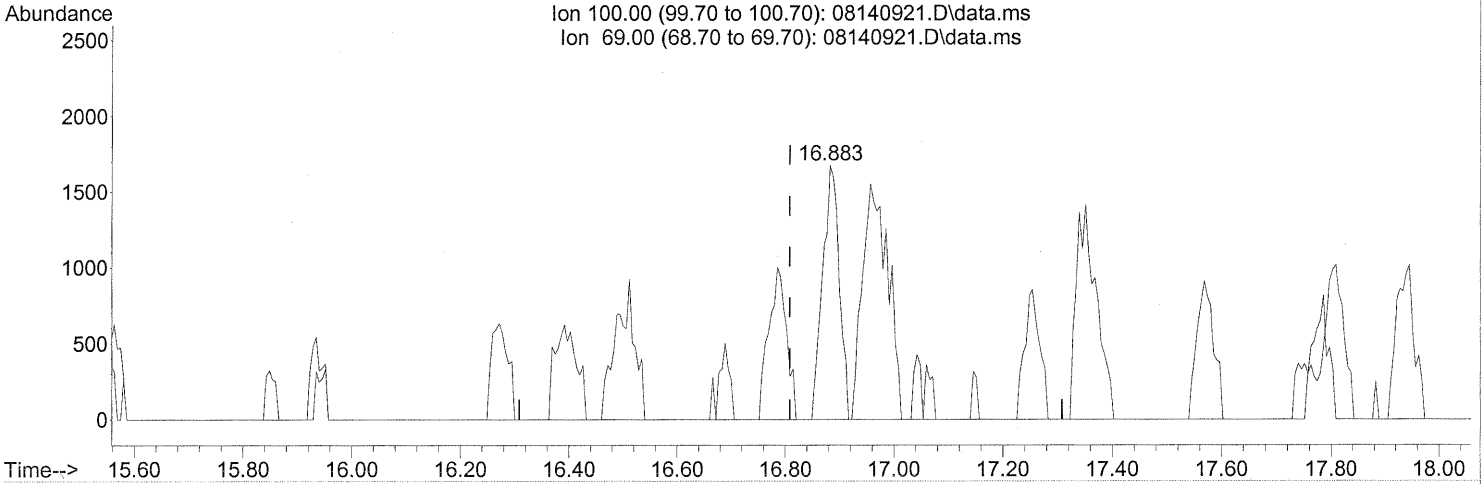
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	30.47#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140921.D\data.ms

(50) Methyl Methacrylate (T)

16.883min (+0.074) 0.91ng

response 3574

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

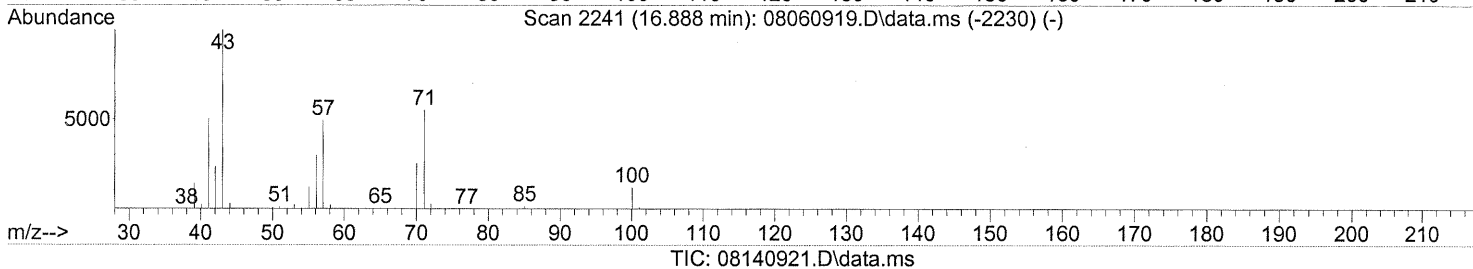
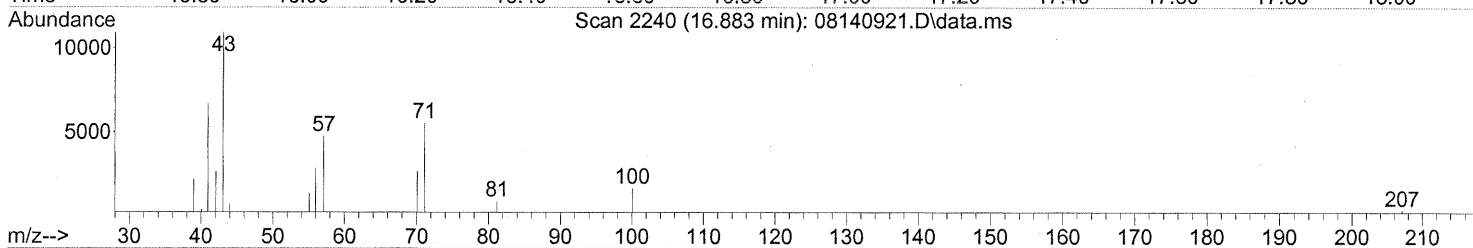
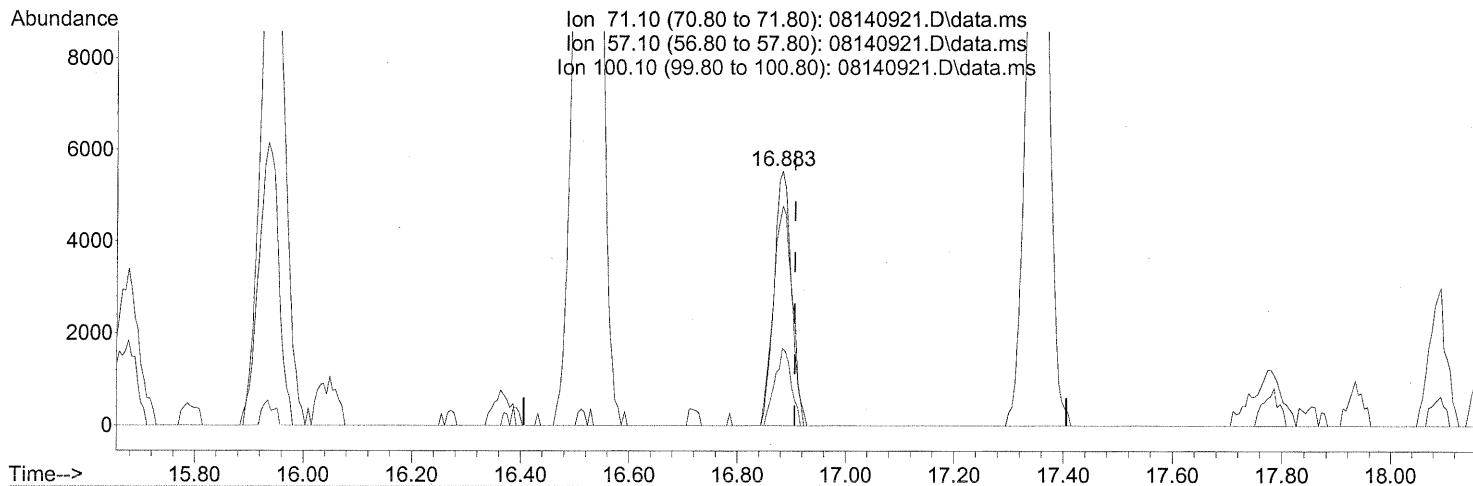
FP LH 8/20/09

Em 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



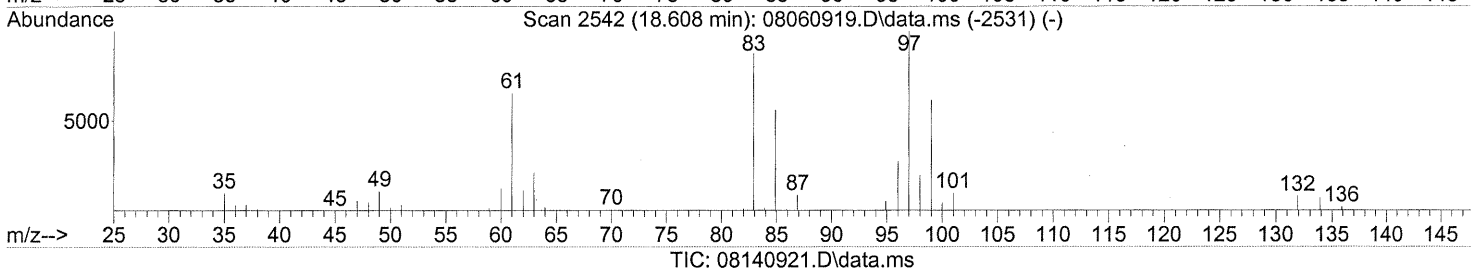
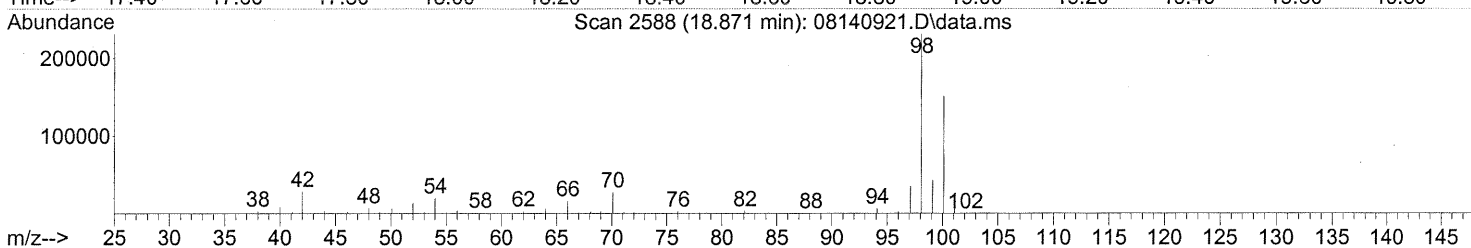
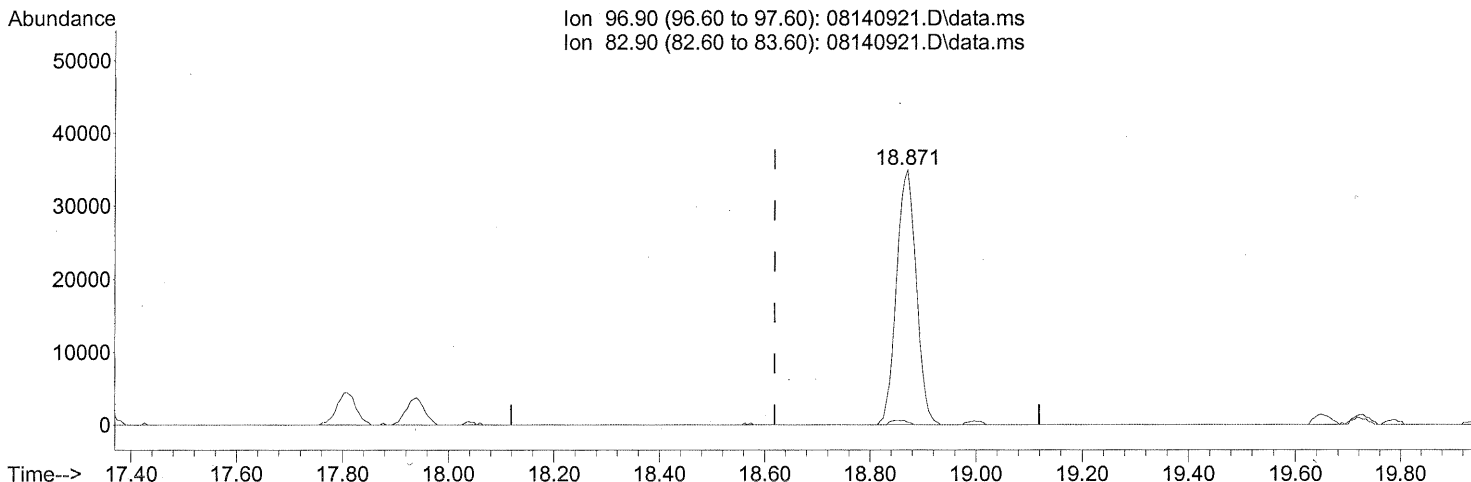
(51) n-Heptane (T)
 16.883min (-0.023) 1.10ng
 response 12655

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	90.78
100.10	26.40	28.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.871min (+0.252) 9.60ng

response 90374

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.39#
0.00	0.00	0.00
0.00	0.00	0.00

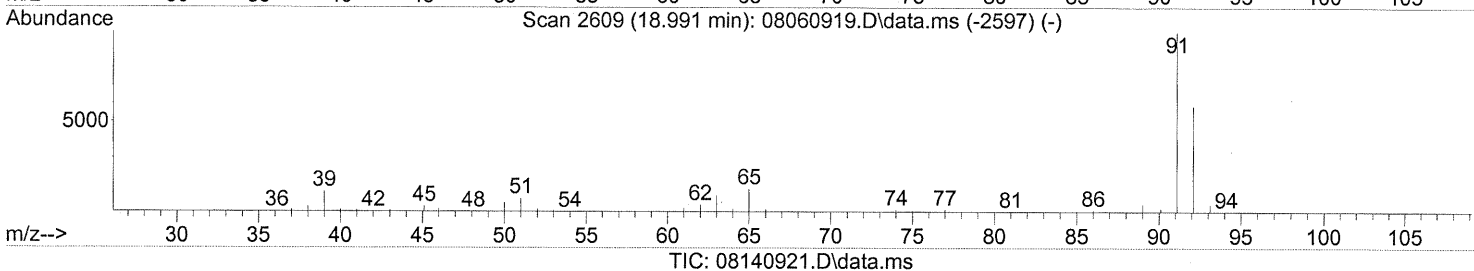
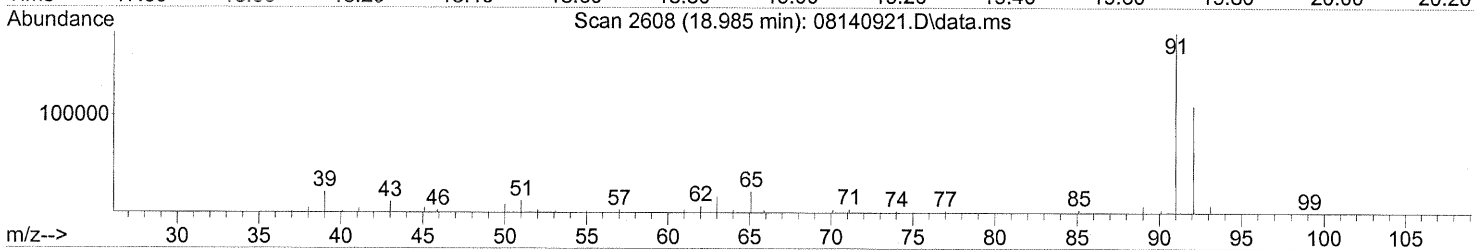
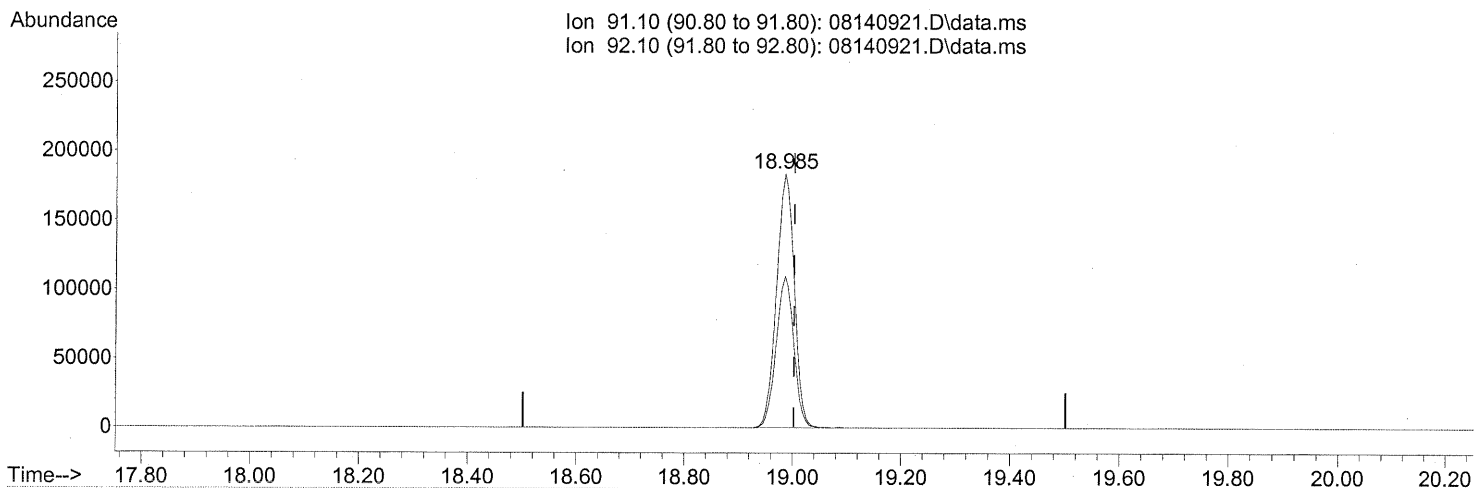
FP in 8/20/09

Cam 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 10.12ng

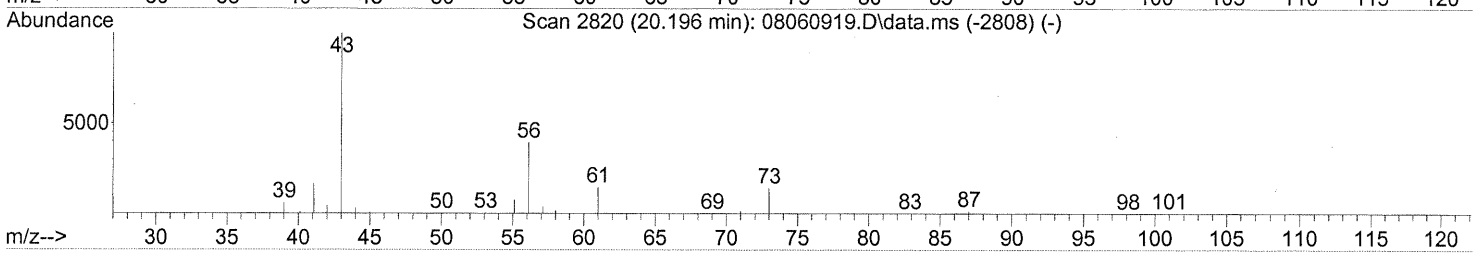
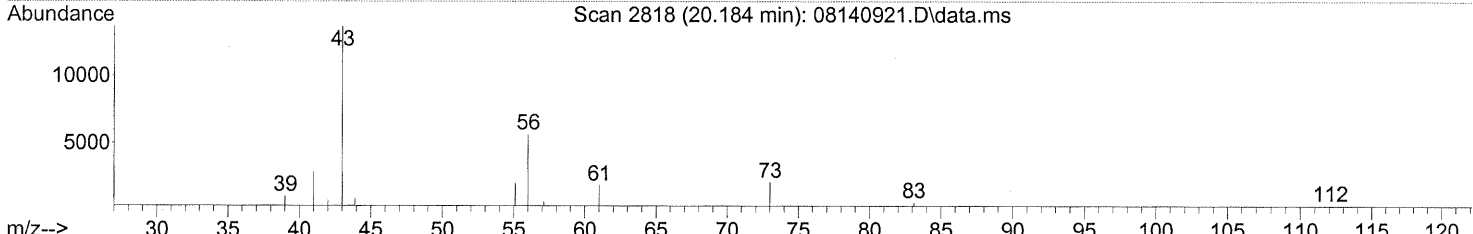
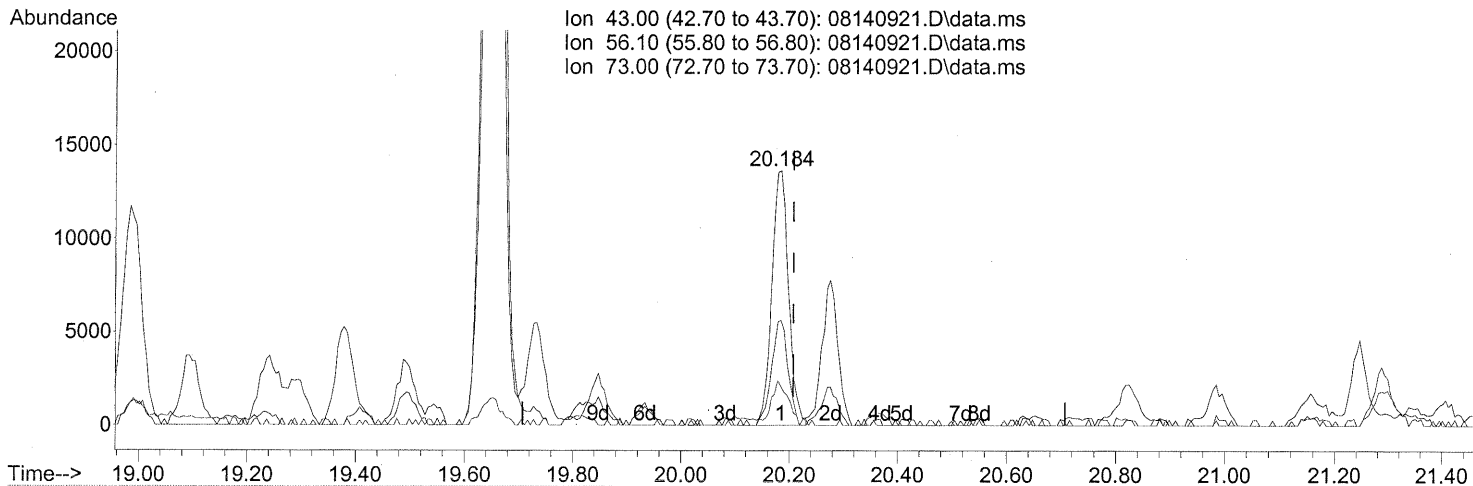
response 417809

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



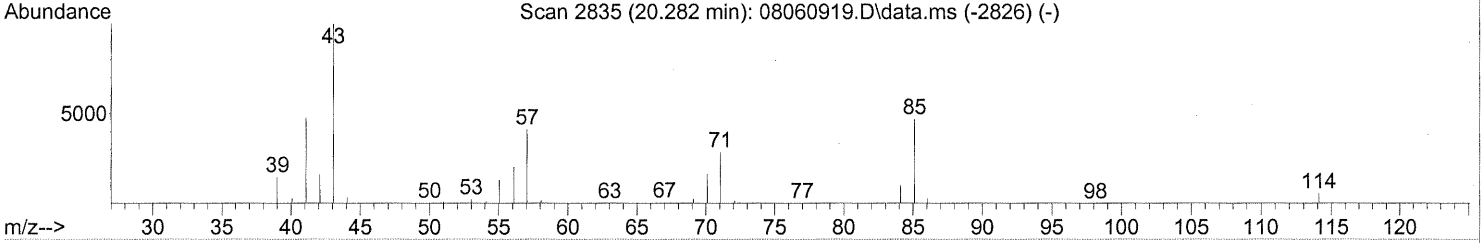
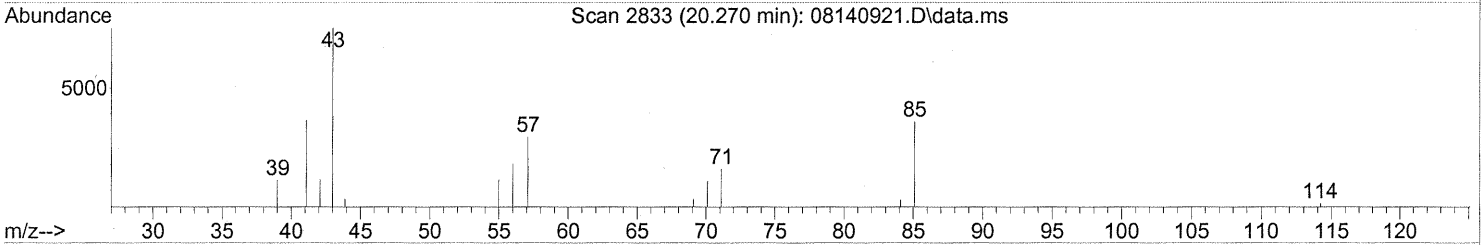
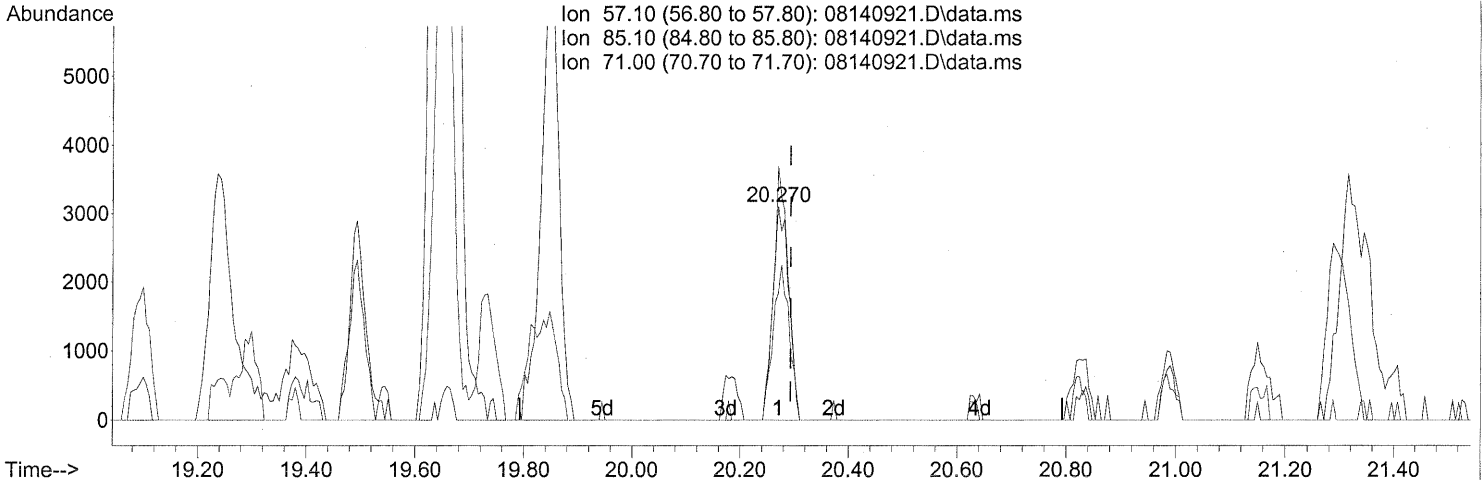
(62) n-Butyl Acetate (T)
 20.184min (-0.023) 0.90ng
 response 29245

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.61
73.00	14.80	18.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.270min (-0.023) 0.64ng

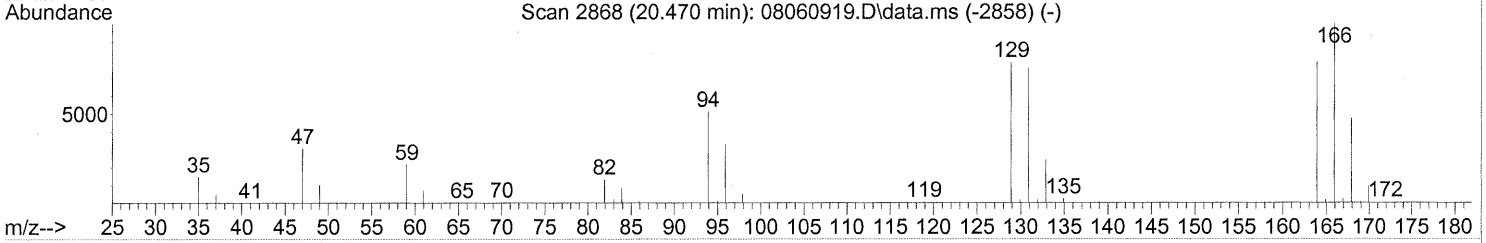
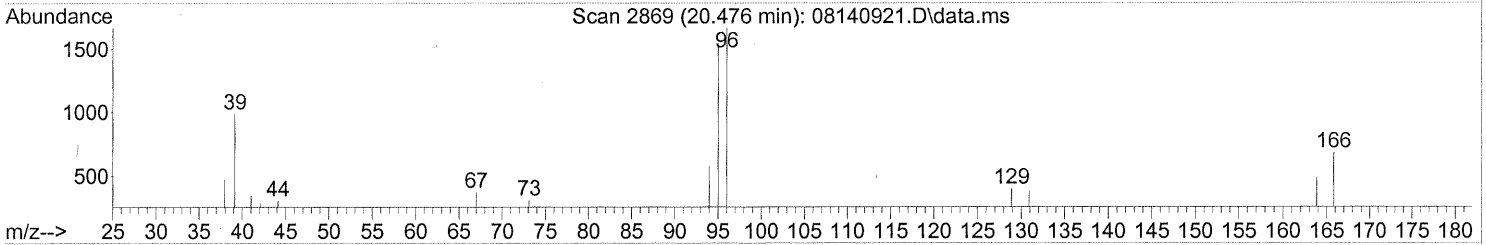
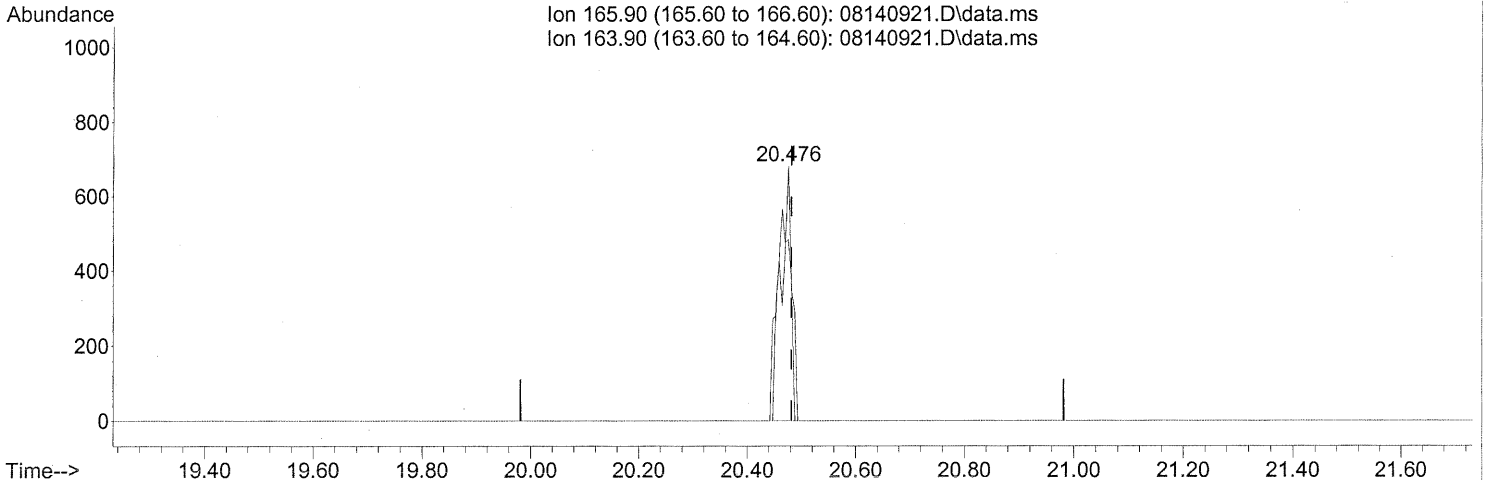
response 6356

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	107.87
71.00	68.10	72.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140921.D\data.ms

(64) Tetrachloroethene (T)

20.476min (-0.006) 0.10ng

response 965

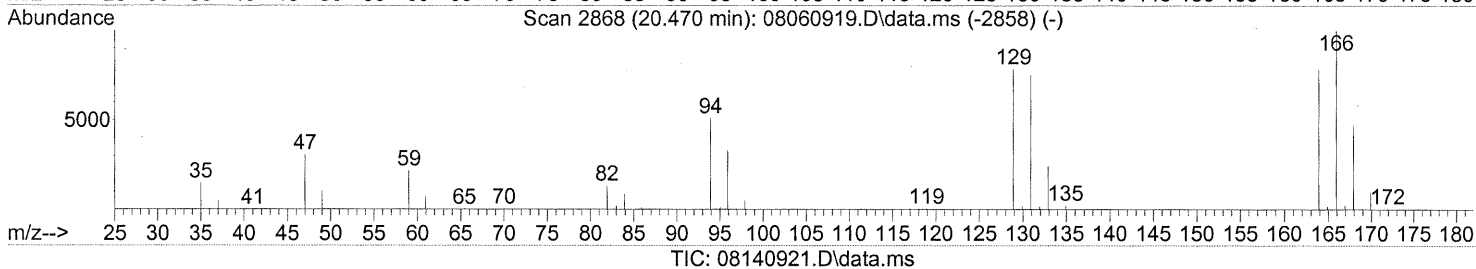
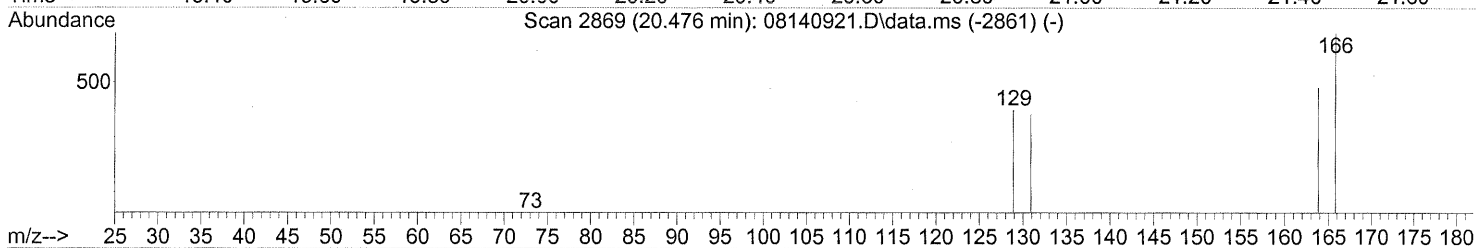
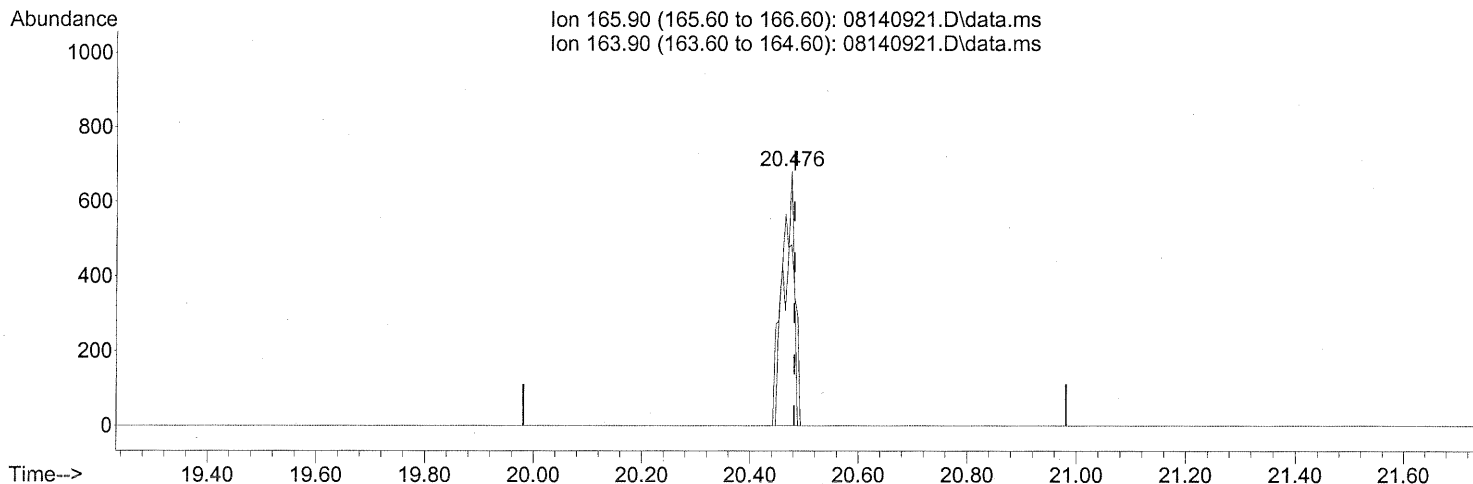
Ion	Exp%	Act%
165.90	100	100
163.90	77.80	101.97#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.476min (-0.006) 0.10ng

response 965

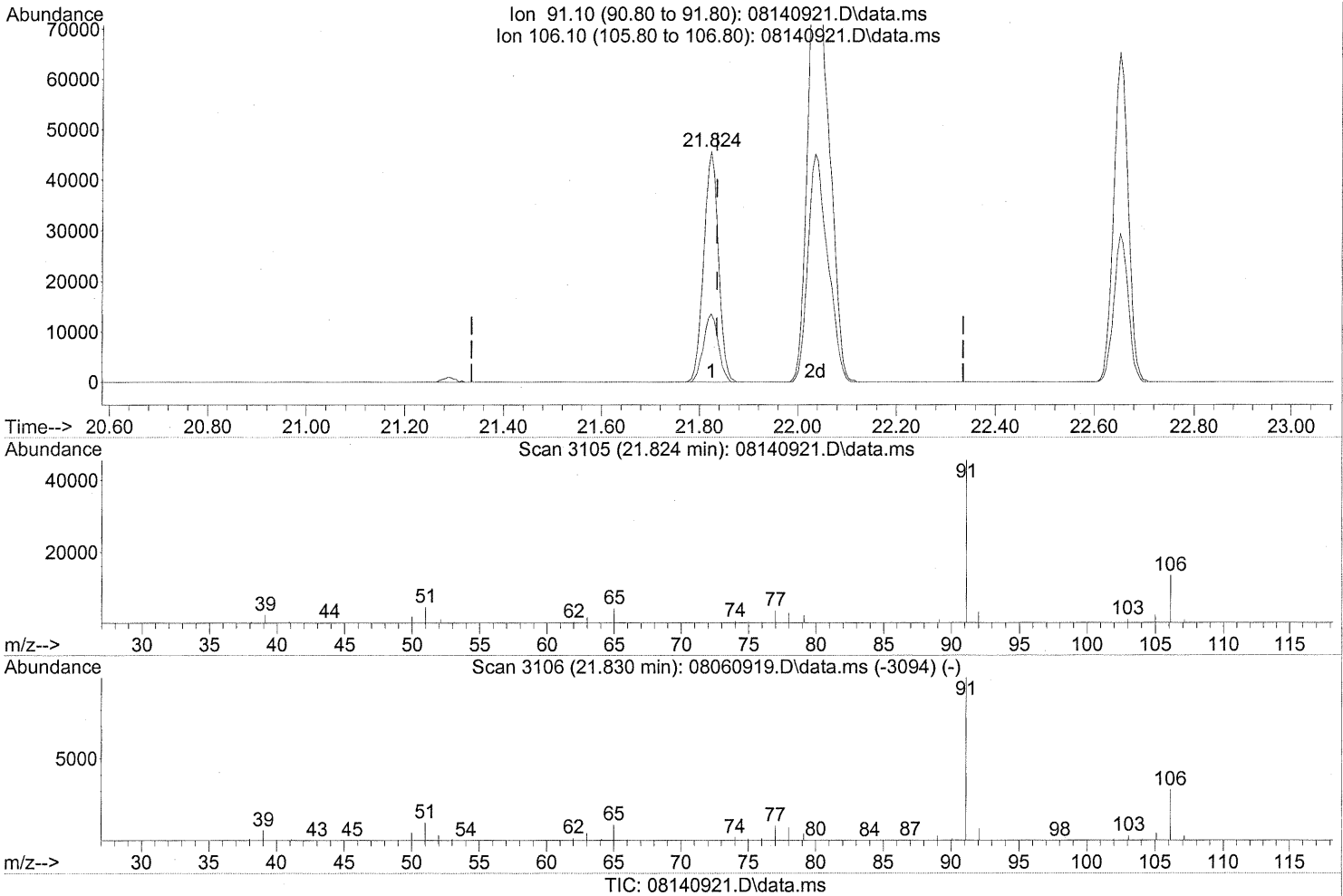
Ion	Exp%	Act%
165.90	100	100
163.90	77.80	101.97#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.824min (-0.011) 2.00ng

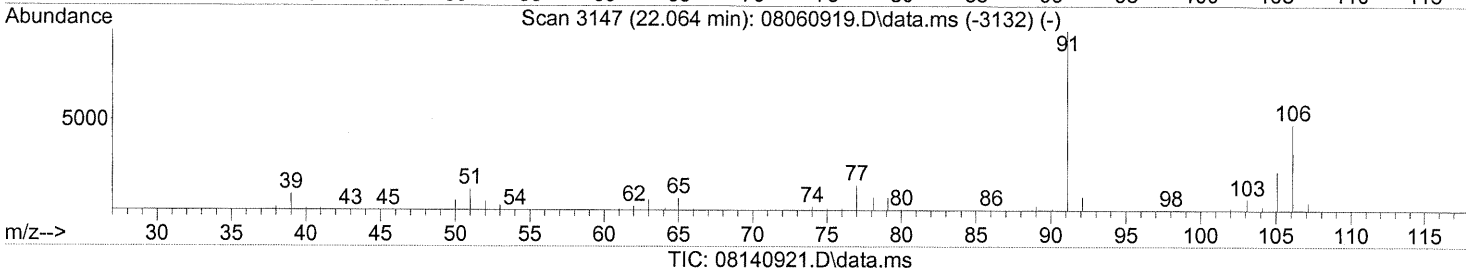
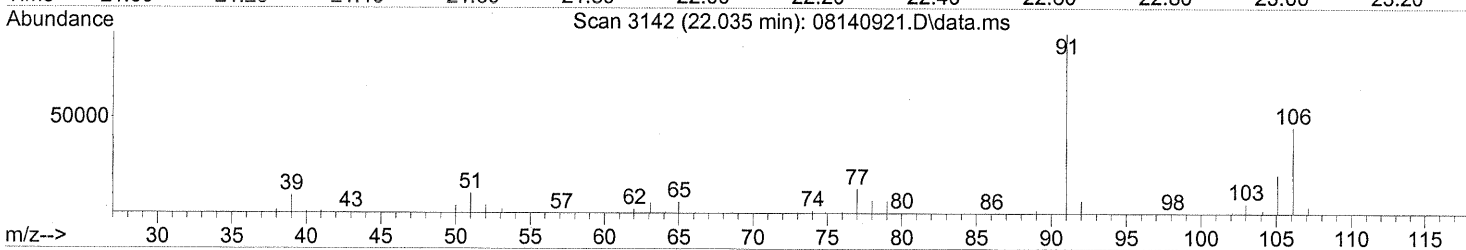
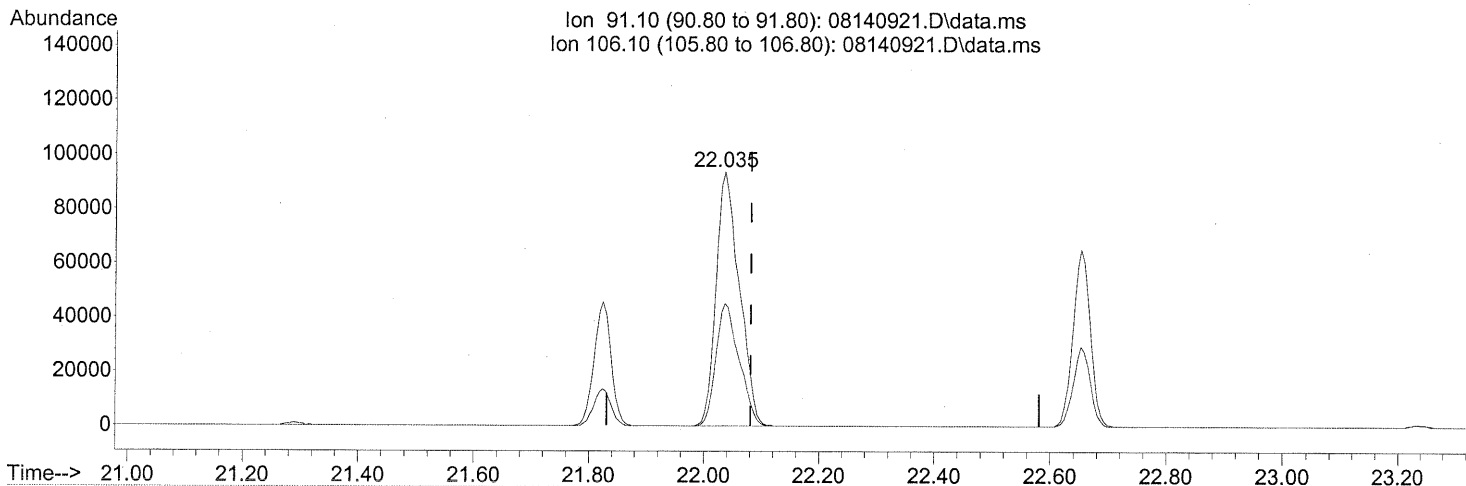
response 94284

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 6.90ng

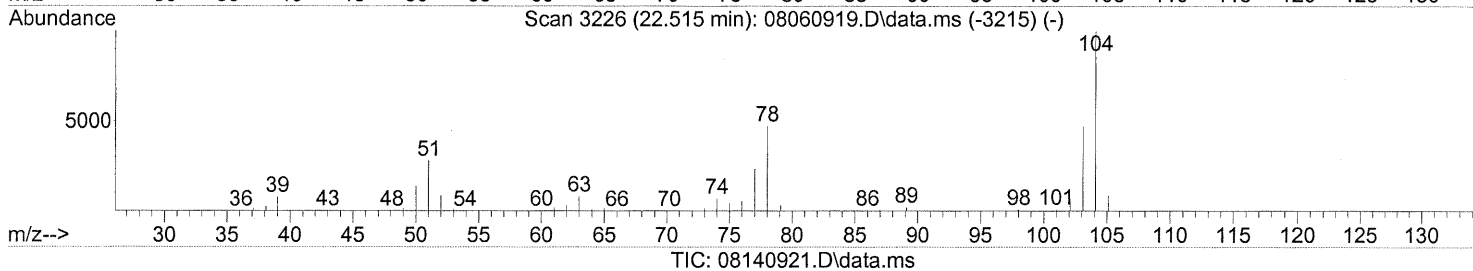
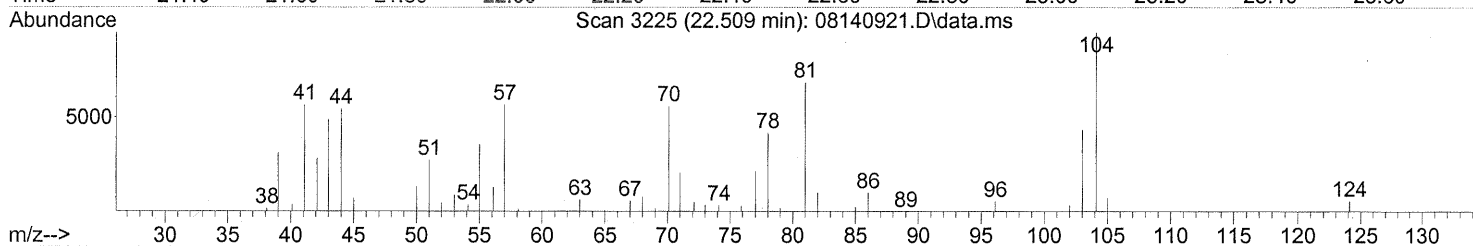
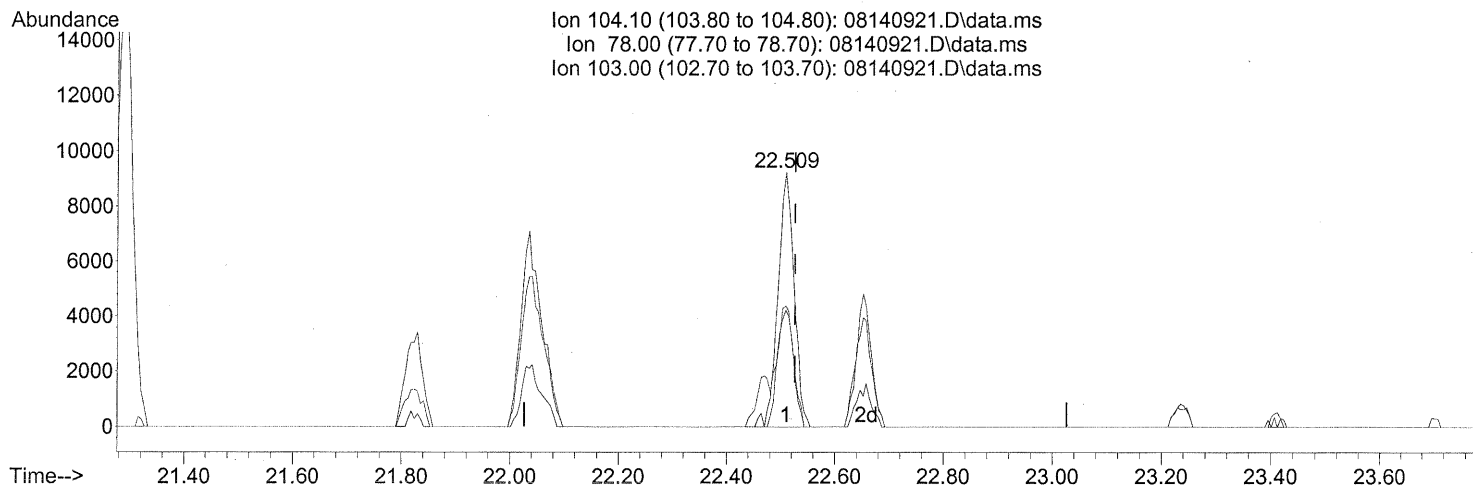
response 263287

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.509min (-0.017) 0.70ng

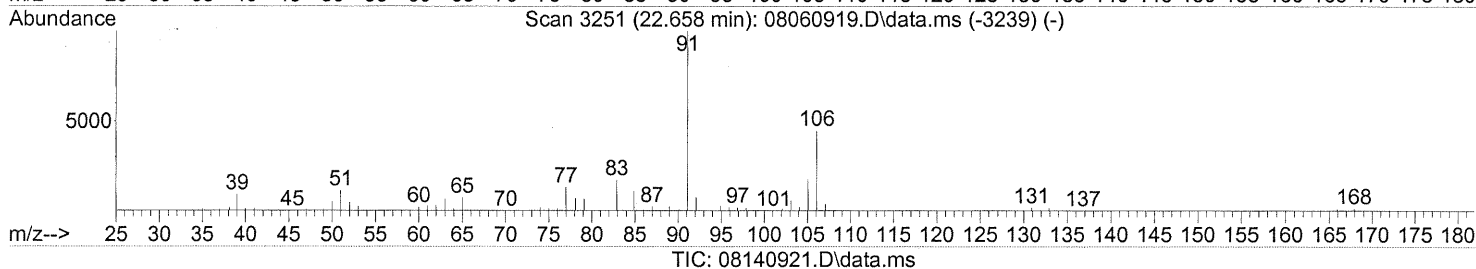
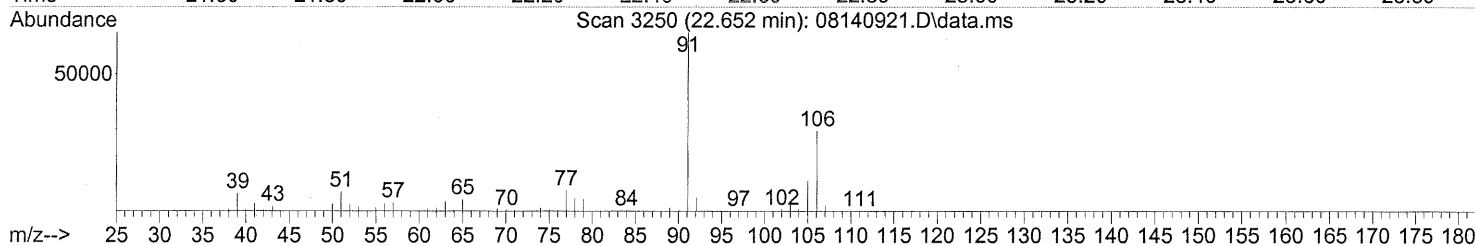
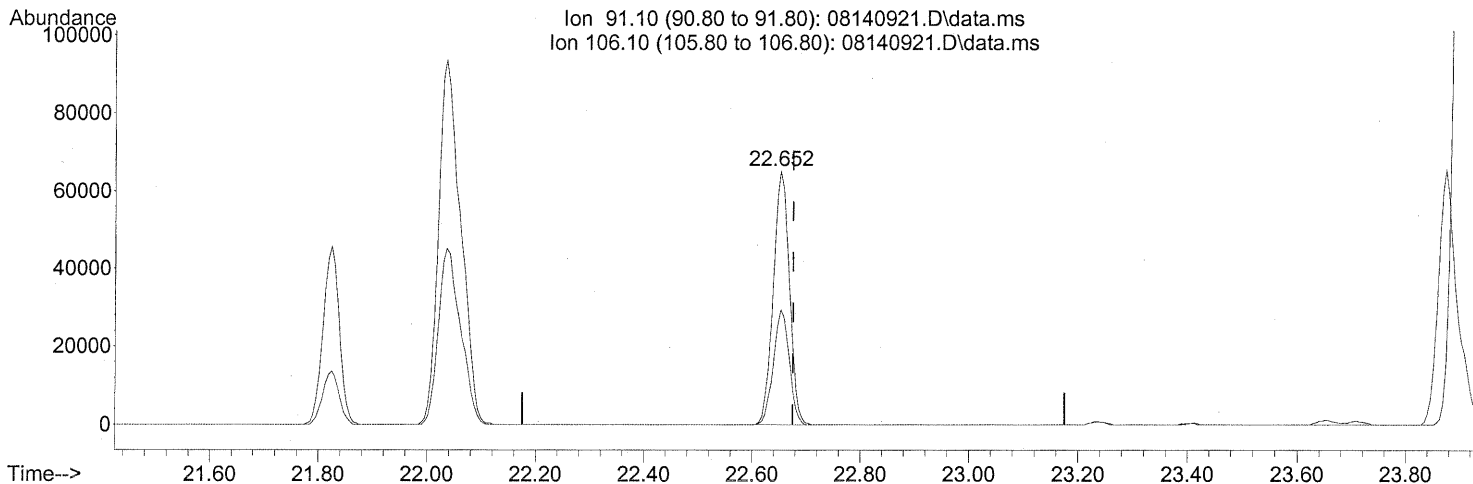
response 19199

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	45.48
103.00	46.20	48.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 3.51ng

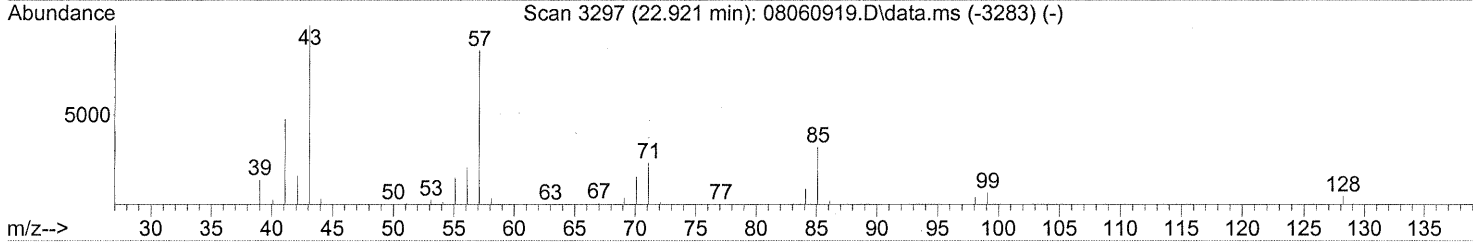
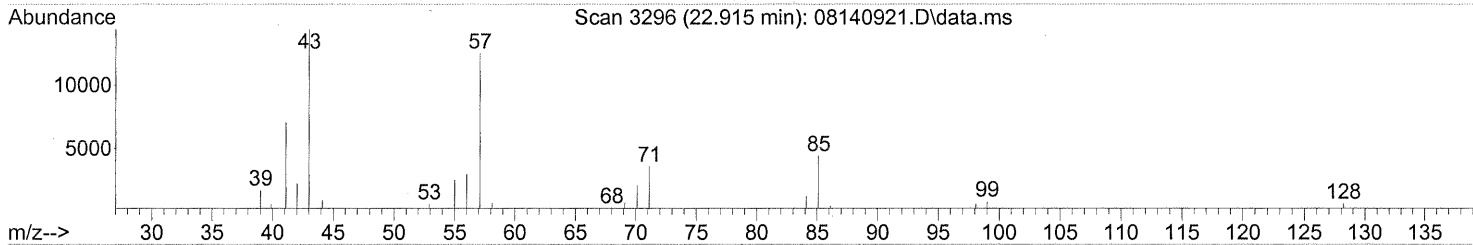
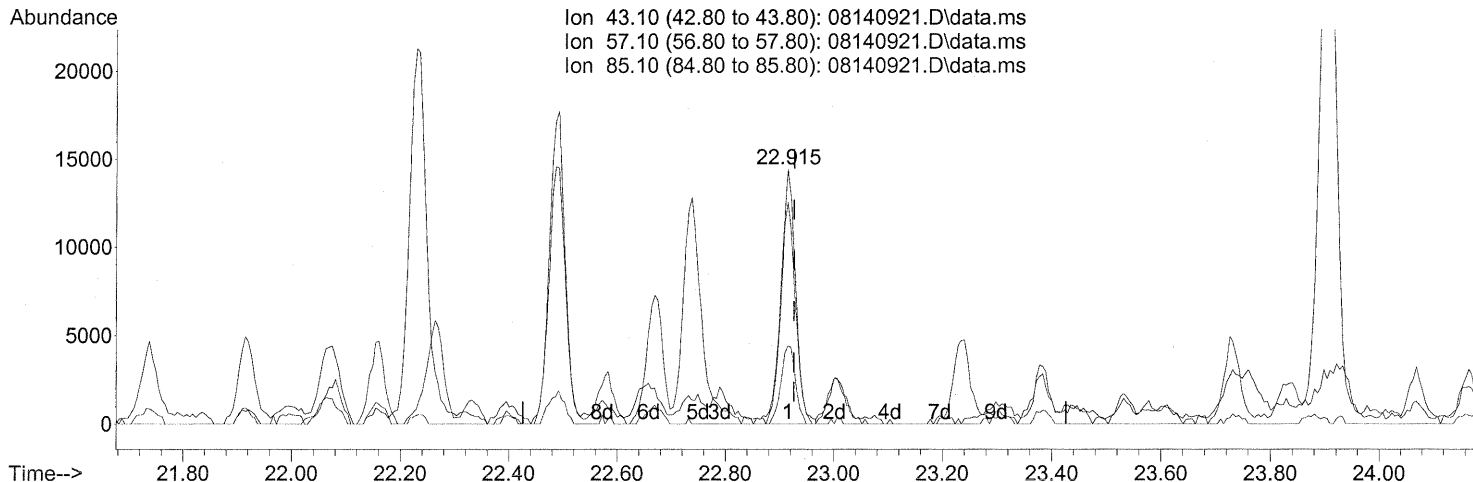
response 134441

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	44.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140921.D\data.ms

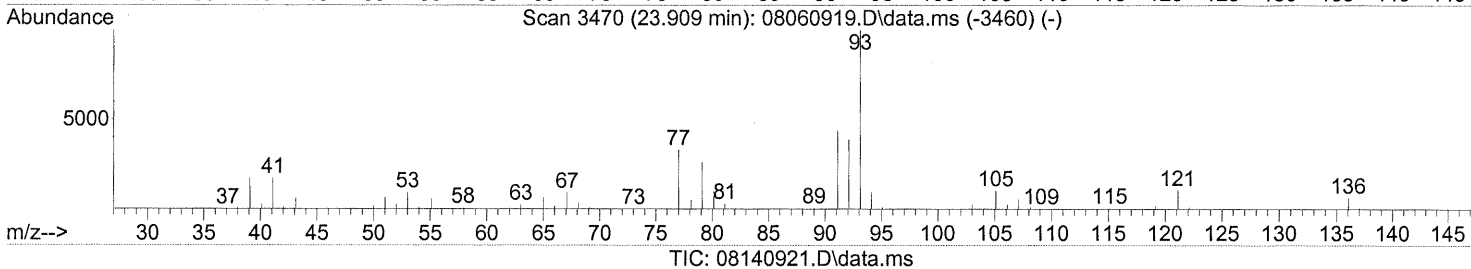
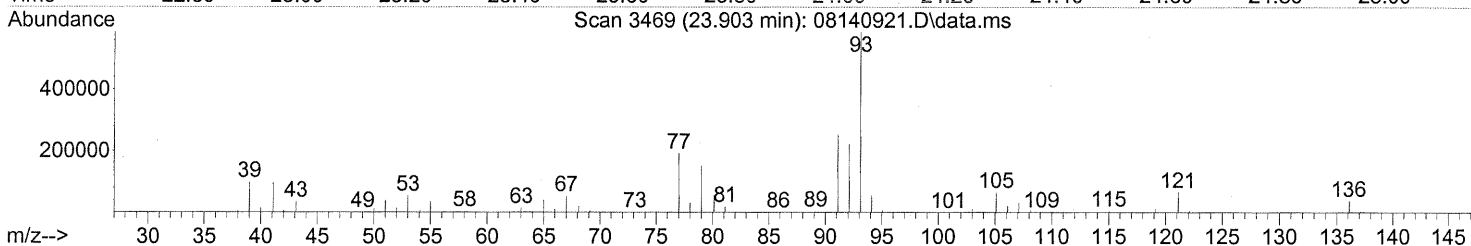
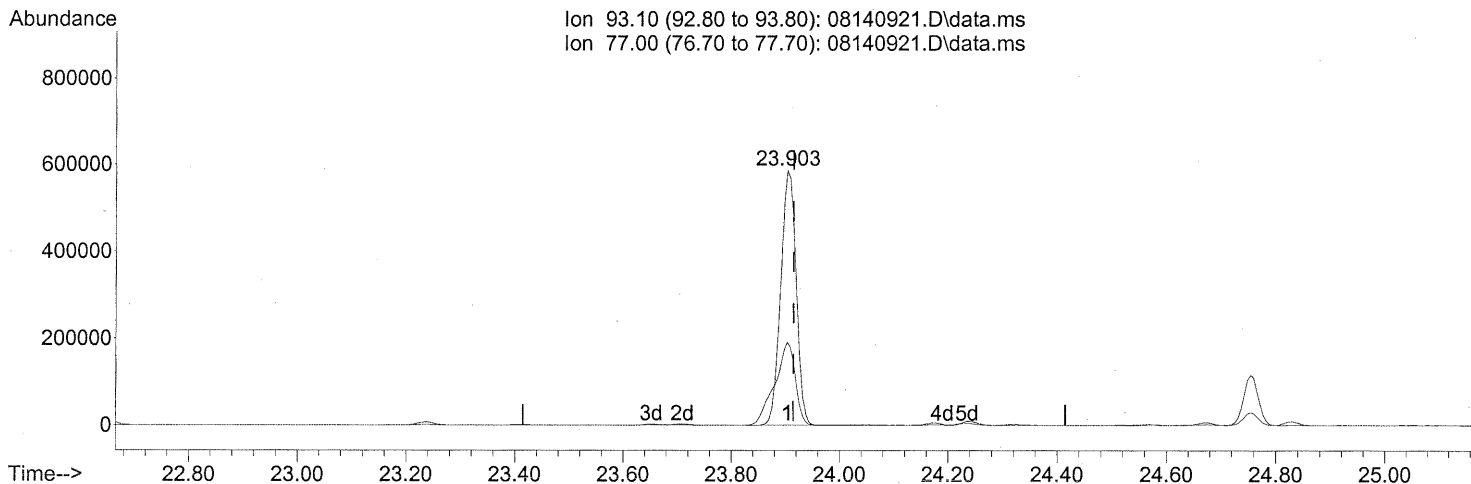
(71) n-Nonane (T)
 22.915min (-0.011) 1.09ng
 response 27651

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	84.95
85.10	30.40	29.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



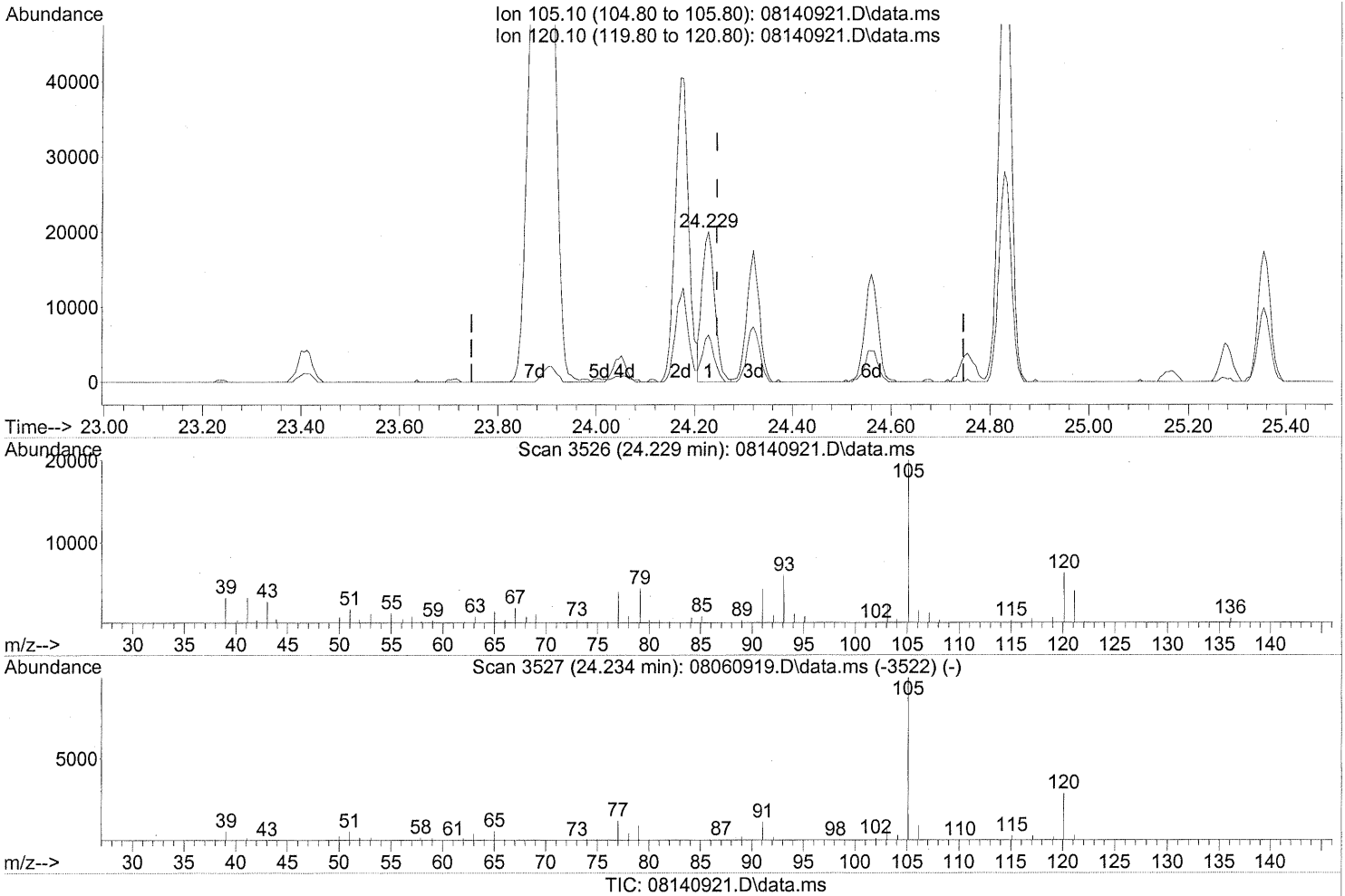
(75) alpha-Pinene (T)
 23.903min (-0.011) 46.57ng
 response 1154448

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	43.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.229min (-0.017) 0.80ng

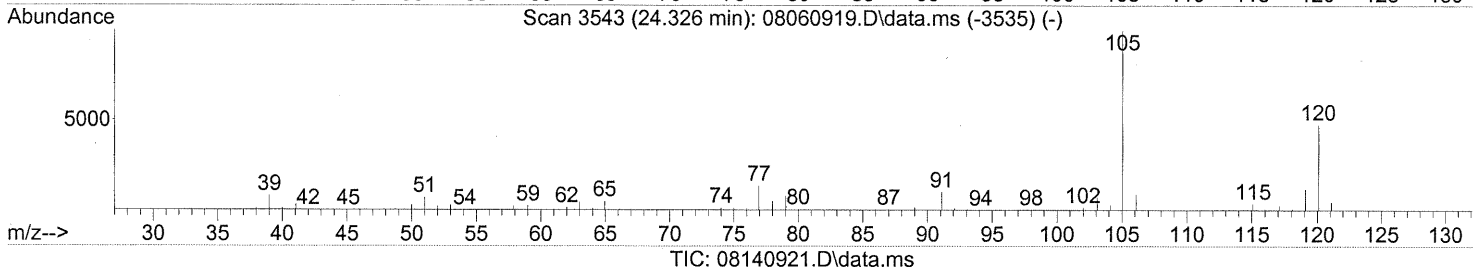
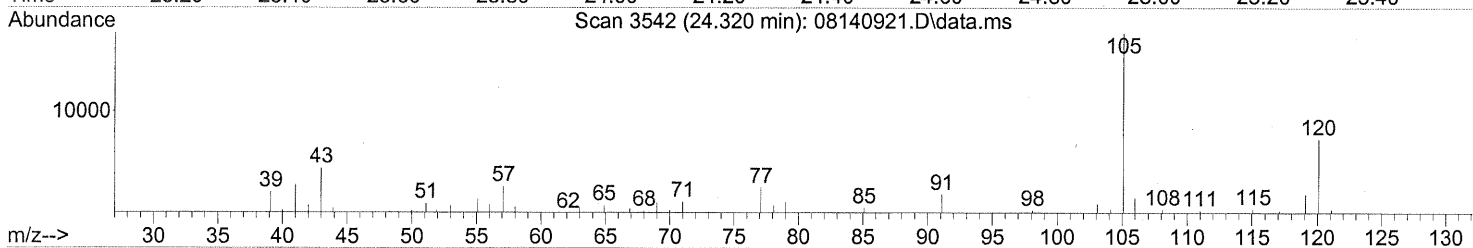
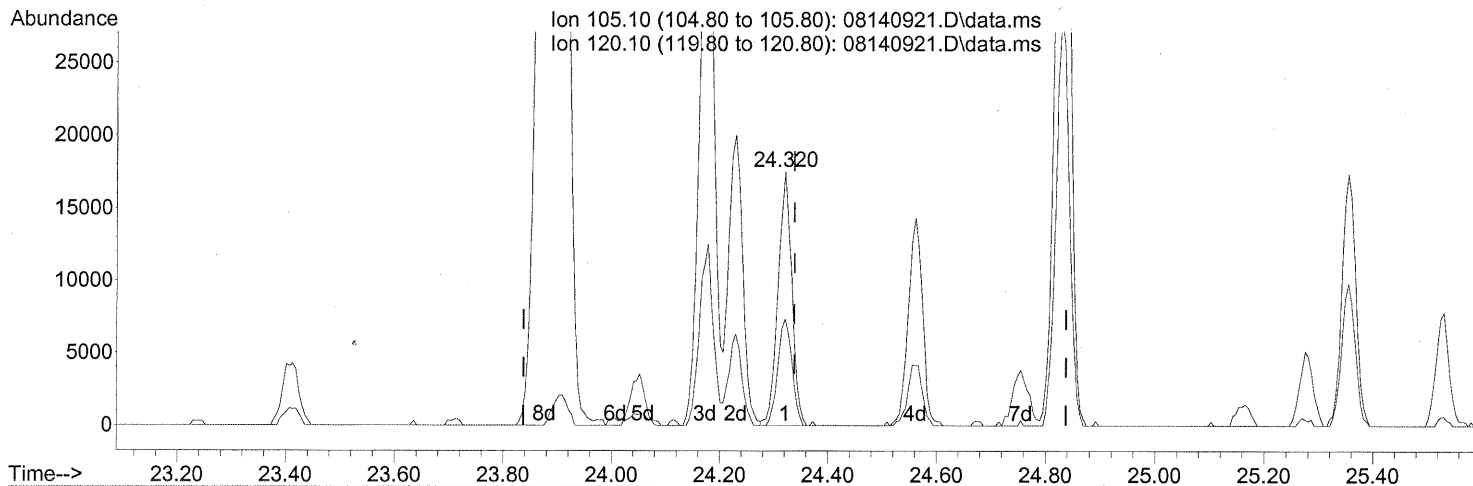
response 35794

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	29.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 0.81ng

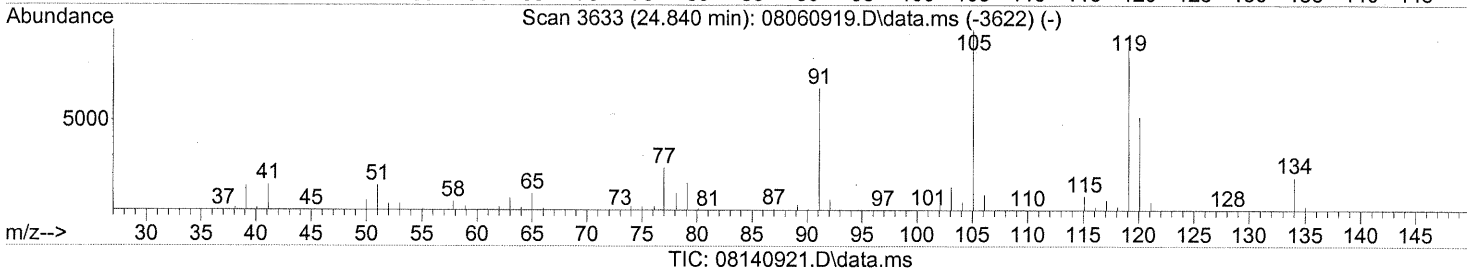
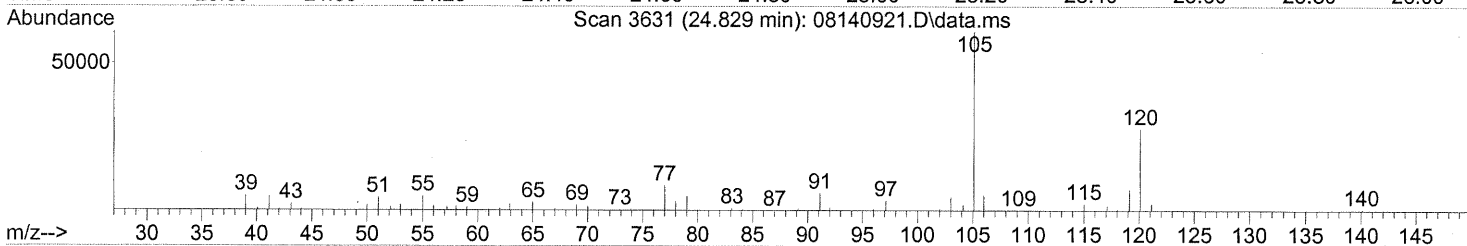
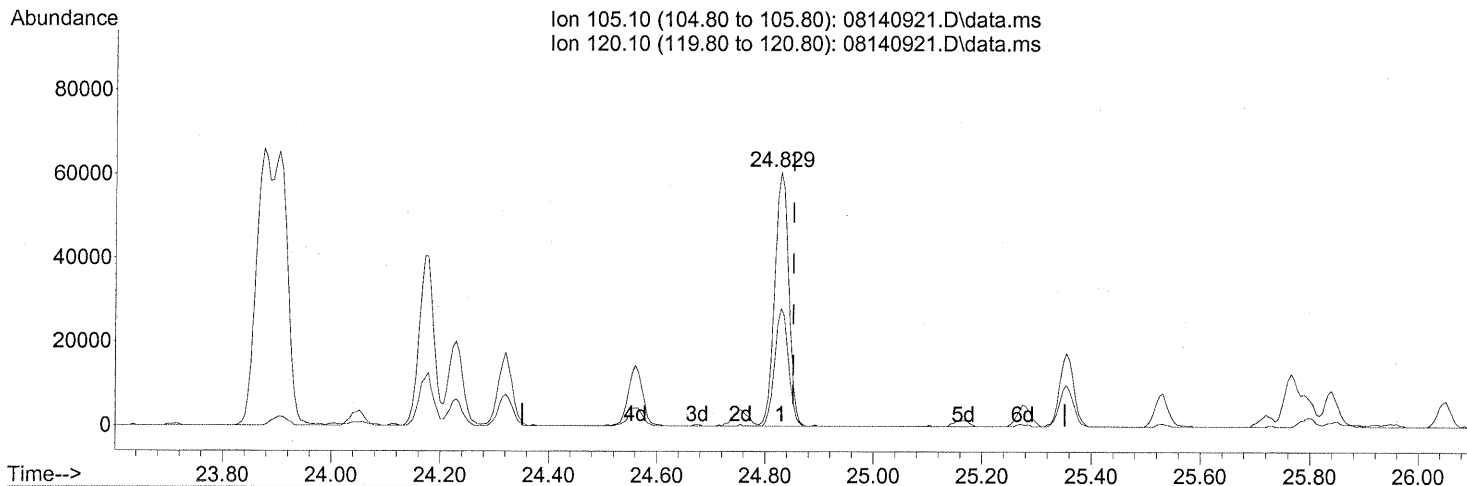
response 30762

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	43.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.829min (-0.023) 2.82ng

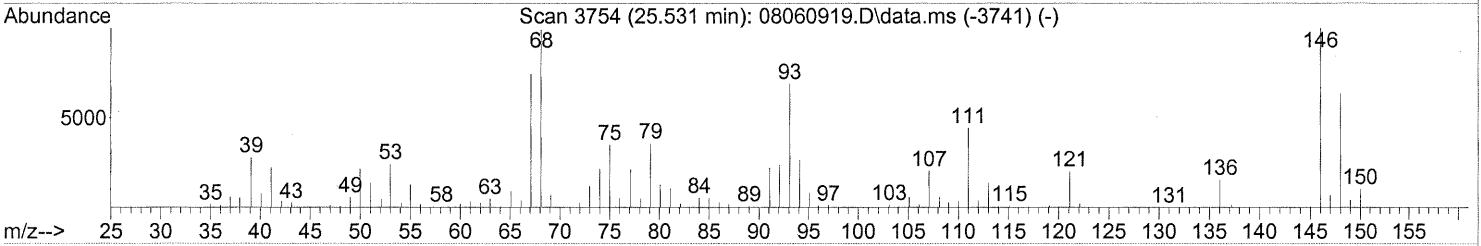
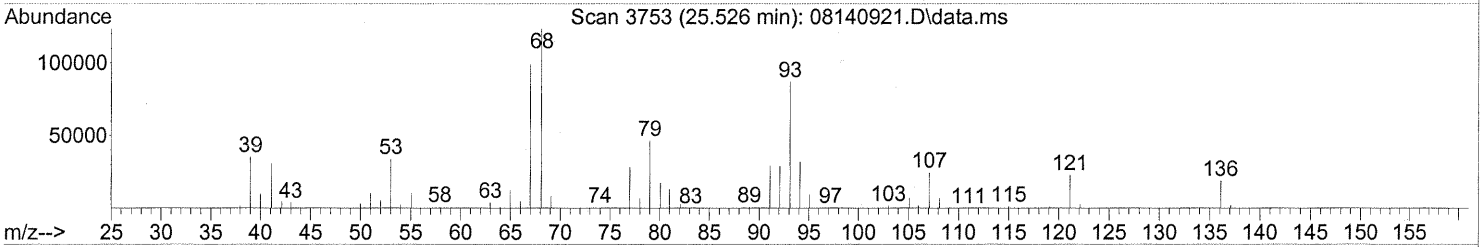
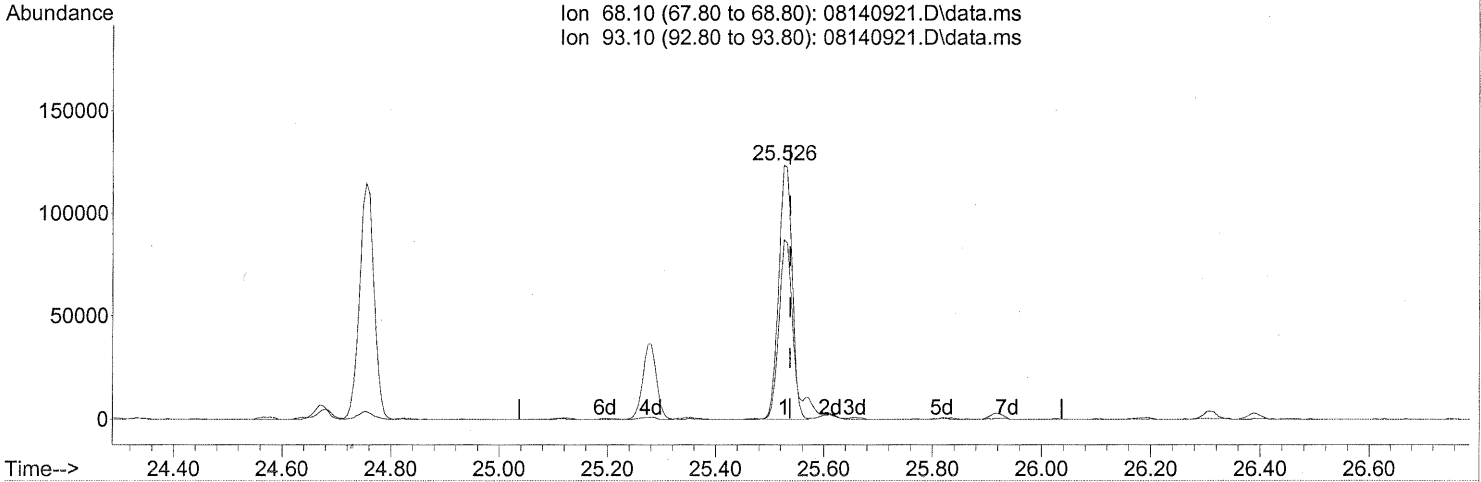
response 108654

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	45.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



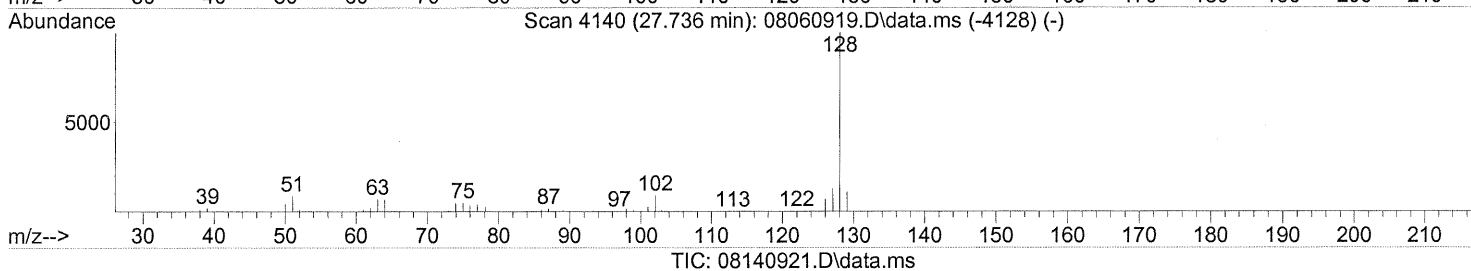
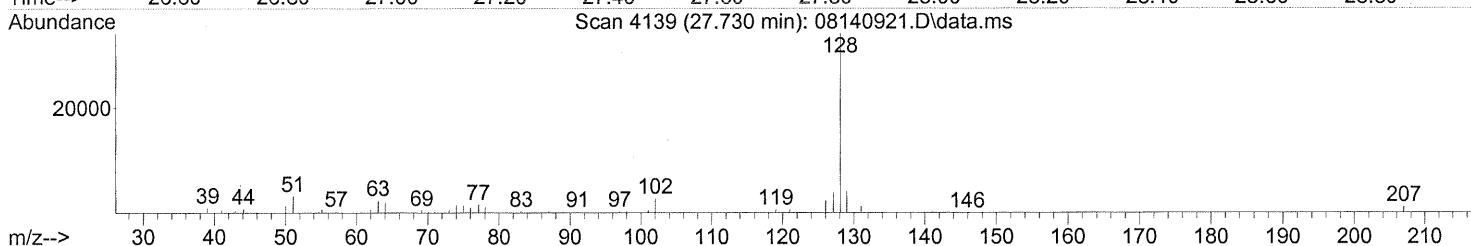
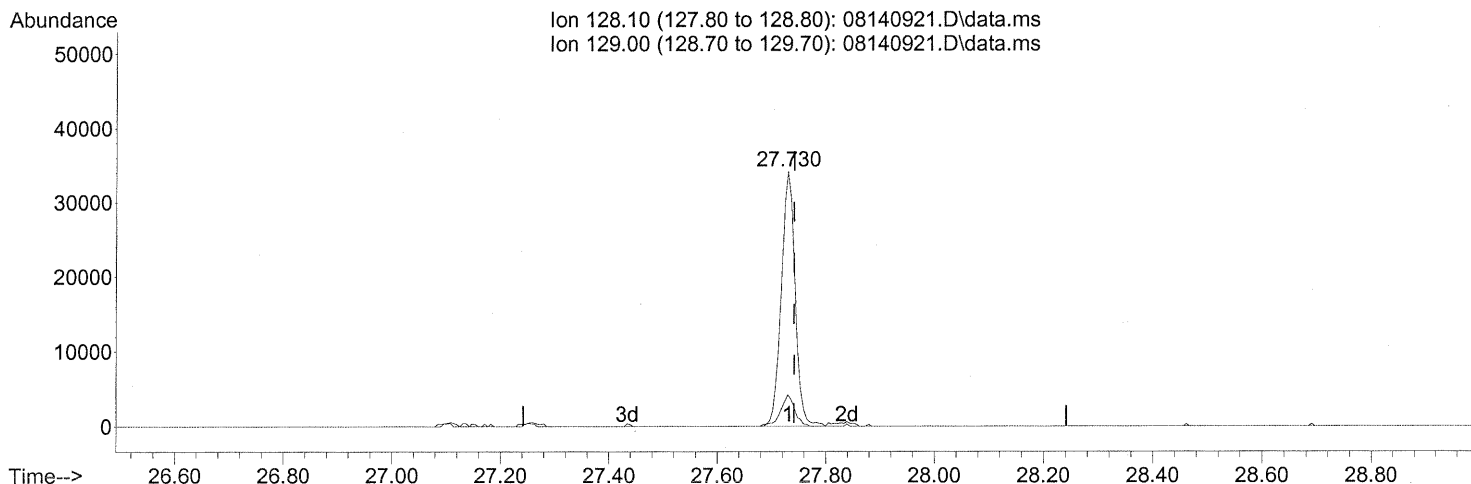
(91) d-Limonene (T)
 25.526min (-0.011) 13.02ng
 response 213283

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	80.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140921.D
 Acq On : 14 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-002 (1000mL)
 Misc : Env. Health & Engineering 100215
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 21:16:25 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

27.730min (-0.011) 1.15ng

response 60271

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	12.56
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100216
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-003

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: AC01670

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.47

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	0.86	0.74	0.50	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.74	0.62	0.15	
74-87-3	Chloromethane	0.51	0.15	0.25	0.071	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.74	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.066	
74-83-9	Bromomethane	ND	0.15	ND	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	Ethanol	8.0	7.4	4.3	3.9	
75-05-8	Acetonitrile	2.2	0.74	1.3	0.44	
107-02-8	Acrolein	2.6	0.74	1.1	0.32	
67-64-1	Acetone	32	7.4	13	3.1	
75-69-4	Trichlorofluoromethane	1.4	0.15	0.25	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.86	0.74	0.35	0.30	
107-13-1	Acrylonitrile	ND	0.74	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.74	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.047	
76-13-1	Trichlorotrifluoroethane	0.74	0.15	0.096	0.019	
75-15-0	Carbon Disulfide	ND	0.74	ND	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	ND	7.4	ND	2.1	
78-93-3	2-Butanone (MEK)	5.5	0.74	1.9	0.25	

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: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100216

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-003

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/7/09

Analyst: Wida Ang

Date Analyzed: 8/14/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01670

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

Canister Dilution Factor: 1.47

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	ND	0.74	ND	0.20	
110-54-3	n-Hexane	ND	0.74	ND	0.21	
67-66-3	Chloroform	ND	0.15	ND	0.030	
109-99-9	Tetrahydrofuran (THF)	1.3	0.74	0.45	0.25	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	0.50	0.15	0.16	0.046	
56-23-5	Carbon Tetrachloride	0.58	0.15	0.092	0.023	
110-82-7	Cyclohexane	ND	0.74	ND	0.21	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.74	ND	0.20	
80-62-6	Methyl Methacrylate	ND	0.74	ND	0.18	
142-82-5	n-Heptane	ND	0.74	ND	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	0.74	ND	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	1.3	0.74	0.34	0.20	
591-78-6	2-Hexanone	1.7	0.74	0.41	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	0.74	ND	0.15	

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: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100216
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-003

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: AC01670

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 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	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.74	ND	0.16	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	ND	0.74	ND	0.17	
179601-23-1	m,p-Xylenes	ND	0.74	ND	0.17	
75-25-2	Bromoform	ND	0.74	ND	0.071	
100-42-5	Styrene	ND	0.74	ND	0.17	
95-47-6	o-Xylene	ND	0.74	ND	0.17	
111-84-2	n-Nonane	ND	0.74	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.74	ND	0.15	
80-56-8	alpha-Pinene	ND	0.74	ND	0.13	
103-65-1	n-Propylbenzene	ND	0.74	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.74	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.74	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.74	ND	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.024	
5989-27-5	d-Limonene	ND	0.74	ND	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.74	ND	0.076	
120-82-1	1,2,4-Trichlorobenzene	ND	0.74	ND	0.099	
91-20-3	Naphthalene	ND	0.74	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.74	ND	0.069	

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

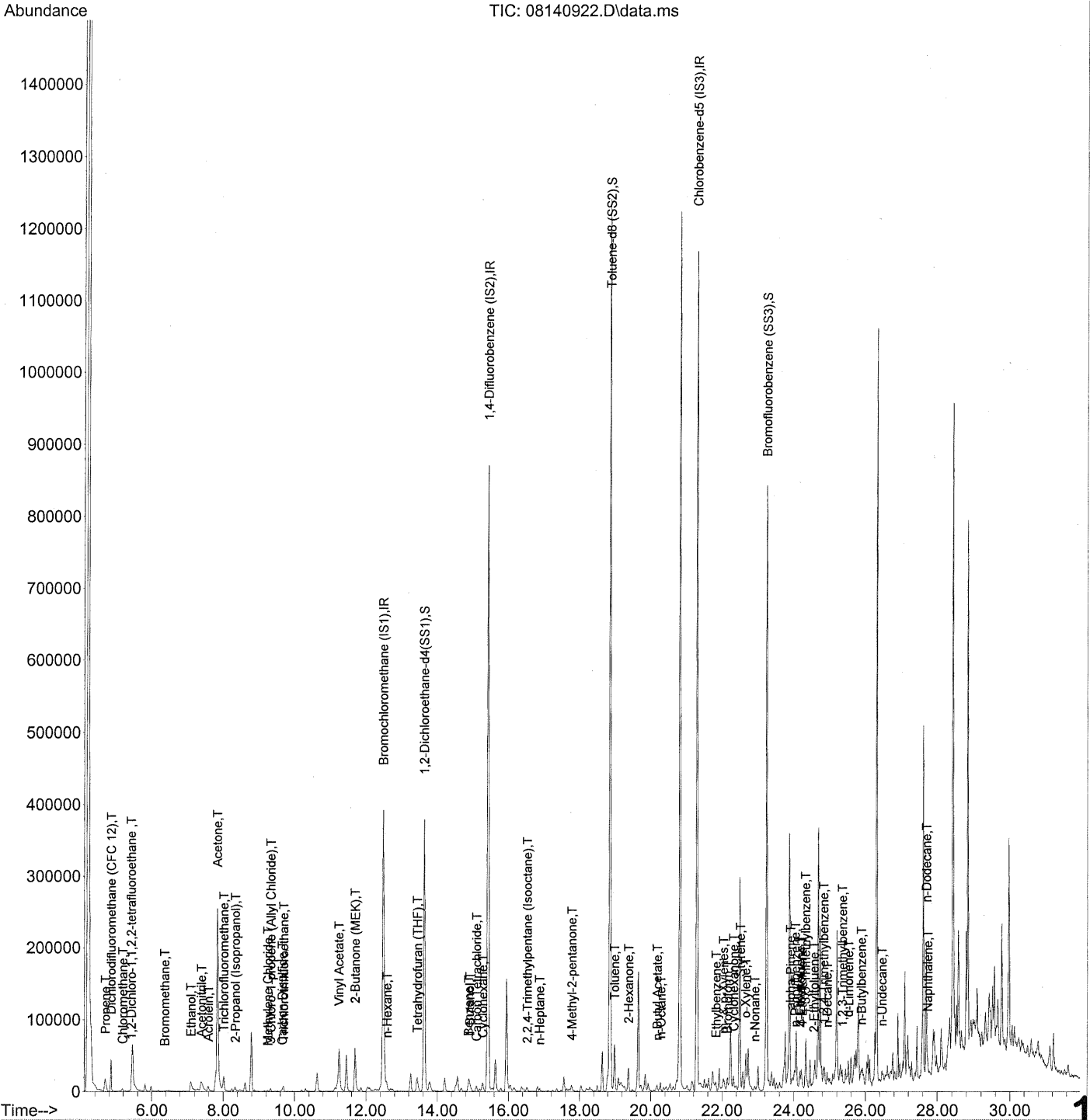
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 8/24/09 **114**

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:13:15 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216 ✓ ✓
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:13:15 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

in 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	197143	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	988560	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	485980	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	398867	23.278	ng	-0.03
Spiked Amount	25.000		Recovery	=	93.12%	✓
57) Toluene-d8 (SS2)	18.85	98	1063091	25.035	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.16%	✓
73) Bromofluorobenzene (SS3)	23.24	174	265215	23.684	ng	0.00
Spiked Amount	25.000		Recovery	=	94.72%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.69	42	7895	0.584	ng	86
3) Dichlorodifluoromethan...	4.85	85	45721	2.068	ng	98
4) Chloromethane	5.18	50	5159	0.347	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	689	0.077	ng	66
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.36	94	437	0.050	ng	90
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.09	45	46762m	5.453	ng	
11) Acetonitrile	7.39	41	37993	1.513	ng	97
12) Acrolein	7.58	56	11620	1.780	ng	98
13) Acetone	7.83	58	173419	21.433	ng	# 69
14) Trichlorofluoromethane	8.01	101	19090	0.955	ng	99
15) 2-Propanol (Isopropanol)	8.34	45	18670m	0.587	ng	
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.31	59	592	N.D.		
19) Methylene Chloride	9.25	84	1008	0.093	ng	87
20) 3-Chloro-1-propene (Al...	9.33	41	1173	0.056	ng	# 43
21) Trichlorotrifluoroethane	9.69	151	3638	0.501	ng	94
22) Carbon Disulfide	9.65	76	6075	0.159	ng	78
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	11.23	86	6091	3.699	ng	# 79
27) 2-Butanone (MEK)	11.69	72	27557	3.772	ng	100
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.58	57	3453	0.177	ng	# 6116

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:13:15 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	747	N.D.		
34) Tetrahydrofuran (THF)	13.44	72	7048	0.905 ng		93
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	14.19	97	108	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.91	56	12965	1.011 ng		84
41) Benzene	14.87	78	14626	0.337 ng		96
42) Carbon Tetrachloride	15.10	117	5440	0.393 ng		97
43) Cyclohexane	15.27	84	4571	0.287 ng	#	3
44) tert-Amyl Methyl Ether	16.00	73	553	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D. d		
46) Bromodichloromethane	16.05	83	639	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.53	57	7318	0.143 ng		97
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	16.88	71	1010	0.087 ng	#	85
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.78	58	2698	0.258 ng		91
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	36663	0.879 ng		99
59) 2-Hexanone	19.38	43	31568	1.138 ng		97
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	6911	0.211 ng	#	61
63) n-Octane	20.28	57	2554	0.253 ng		95
64) Tetrachloroethene	0.00	166	0	N.D. d		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.83	91	8340	0.175 ng		92
67) m- & p-Xylenes	22.04	91	17587	0.456 ng		99
68) Bromoform	22.14	173	466	0.057 ng	#	29
69) Styrene	22.51	104	5755	0.206 ng		99
70) o-Xylene	22.65	91	7513	0.194 ng		99
71) n-Nonane	22.91	43	3827	0.149 ng		89
72) 1,1,2,2-Tetrachloroethane	22.64	83	763	N.D.		
74) Cumene	23.40	105	651	N.D.		
75) alpha-Pinene	23.90	93	9670	0.386 ng	#	42
76) n-Propylbenzene	24.04	91	3249	0.053 ng	#	68
77) 3-Ethyltoluene	24.18	105	6227	0.133 ng		98
78) 4-Ethyltoluene	24.22	105	3472	0.077 ng		95
79) 1,3,5-Trimethylbenzene	24.32	105	2573	0.067 ng		81

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:13:15 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

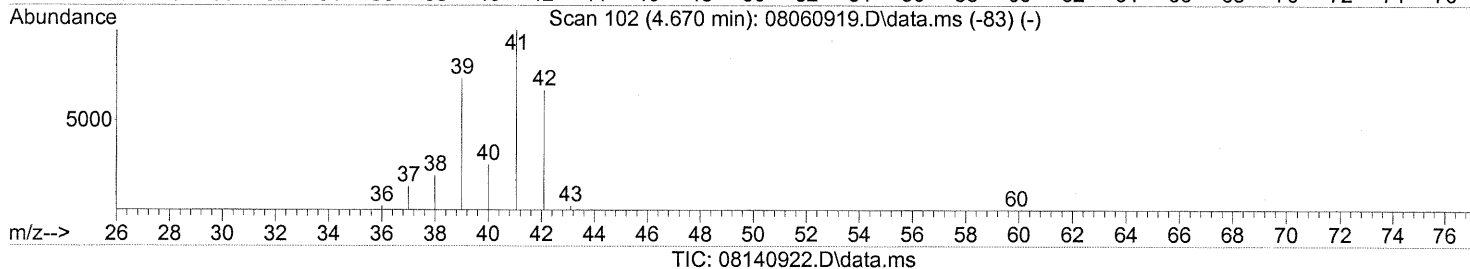
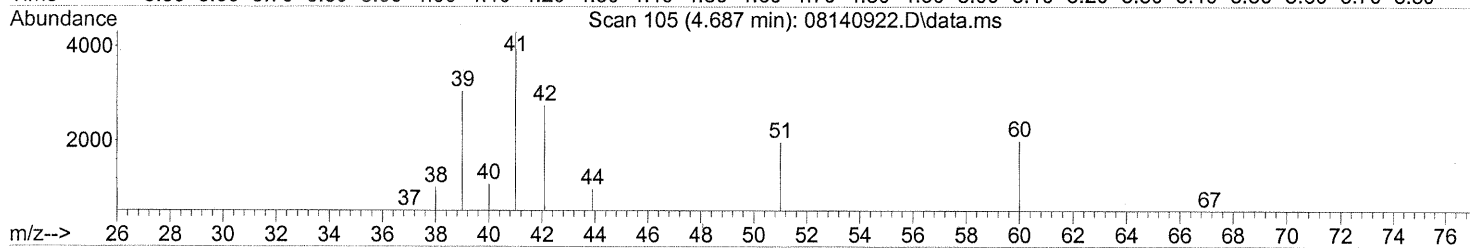
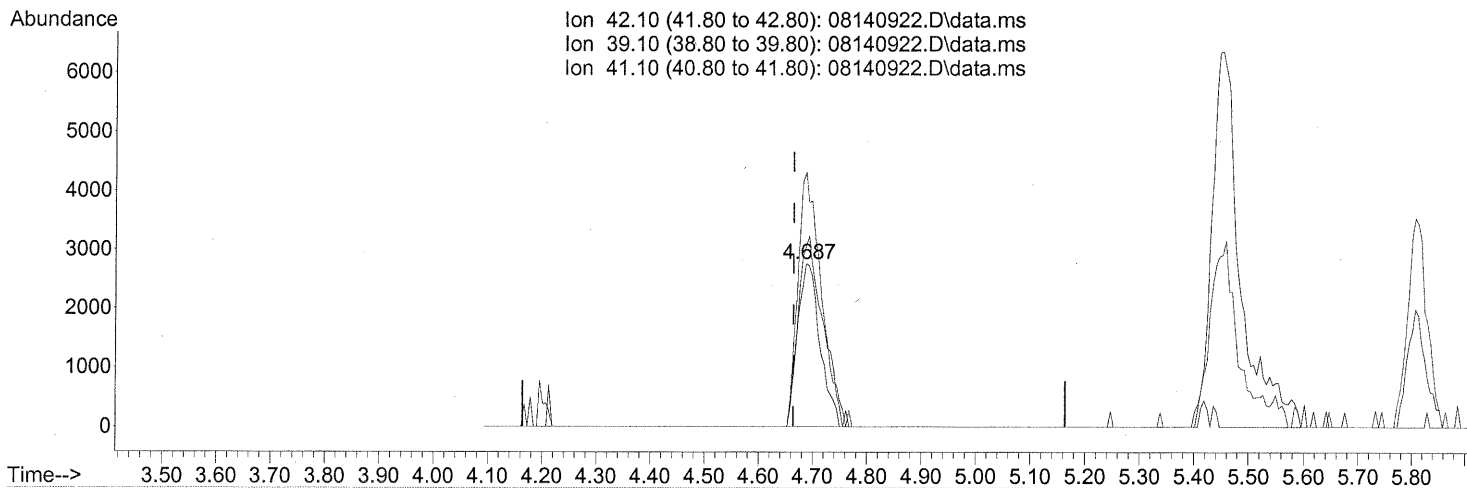
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	95	N.D.		
81) 2-Ethyltoluene	24.56	105	2487	0.053	ng	68
82) 1,2,4-Trimethylbenzene	24.83	105	8376	0.215	ng	89
83) n-Decane	24.93	57	7714	0.305	ng	# 57
84) Benzyl Chloride	24.99	91	649	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	354	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	354	N.D.		
87) sec-Butylbenzene	25.16	105	321	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	1775	N.D.		
89) 1,2,3-Trimethylbenzene	25.35	105	2383	0.060	ng	83
90) 1,2-Dichlorobenzene	25.10	146	354	N.D.		
91) d-Limonene	25.53	68	5600	0.338	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	6396	0.238	ng	# 50
94) 1,2,4-Trichlorobenzene	27.59	180	355	N.D.		
95) Naphthalene	27.73	128	18704	0.354	ng	98
96) n-Dodecane	27.70	57	60563	1.936	ng	96
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	13863	0.802	ng	# 84
99) tert-Butylbenzene	24.82	119	909	N.D.		
100) n-Butylbenzene	25.88	91	9858	0.227	ng	# 44

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 14 21:17:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.687min (+0.023) 0.58ng

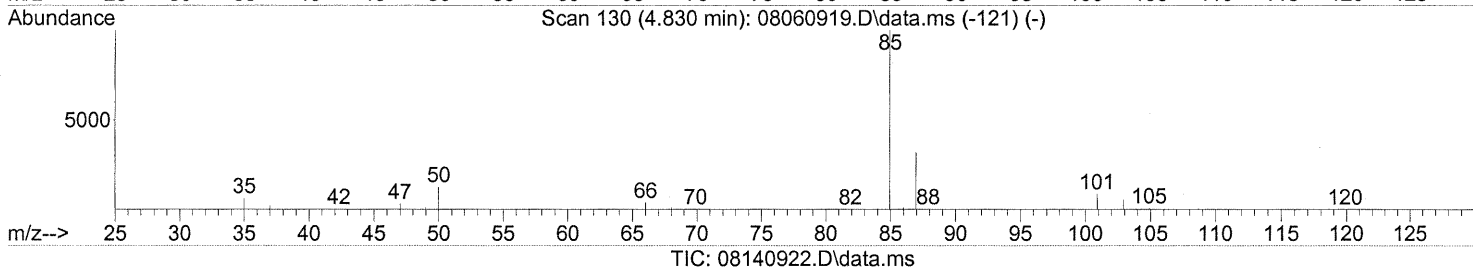
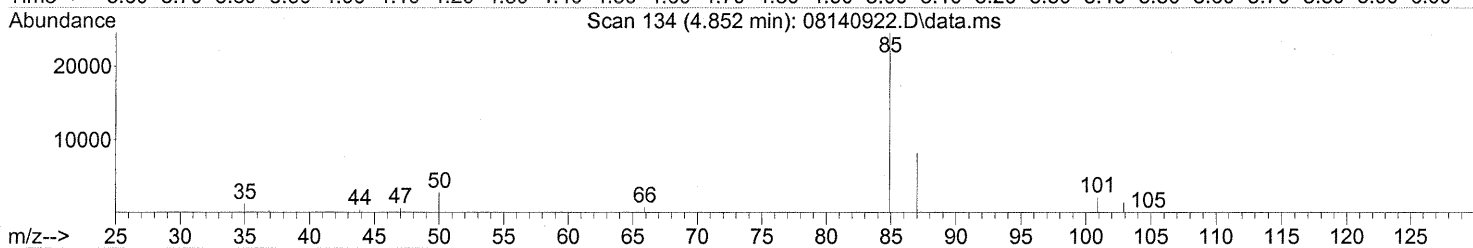
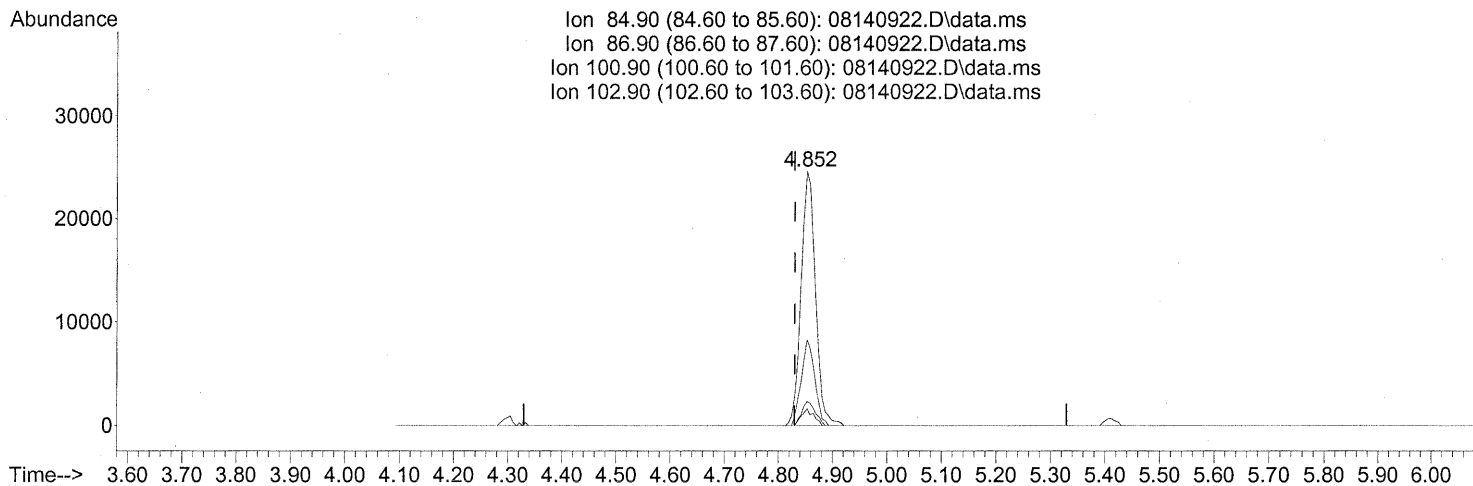
response 7895

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	130.34
41.10	150.20	165.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
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 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 14 21:17:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.852min (+0.023) 2.07ng

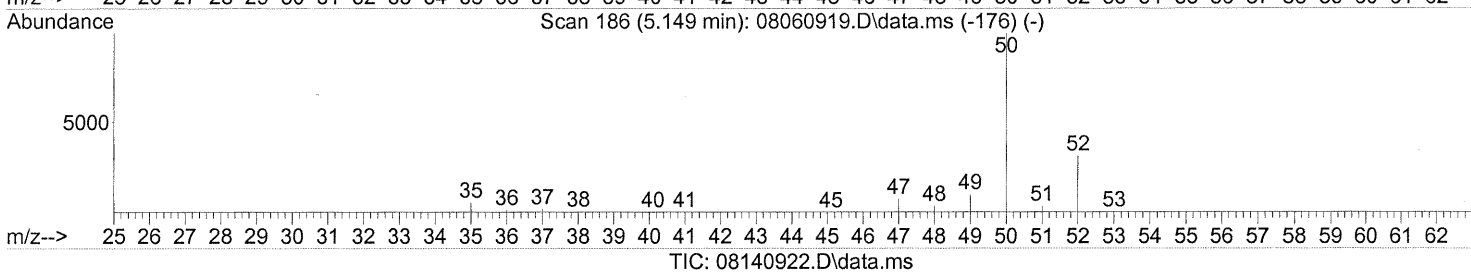
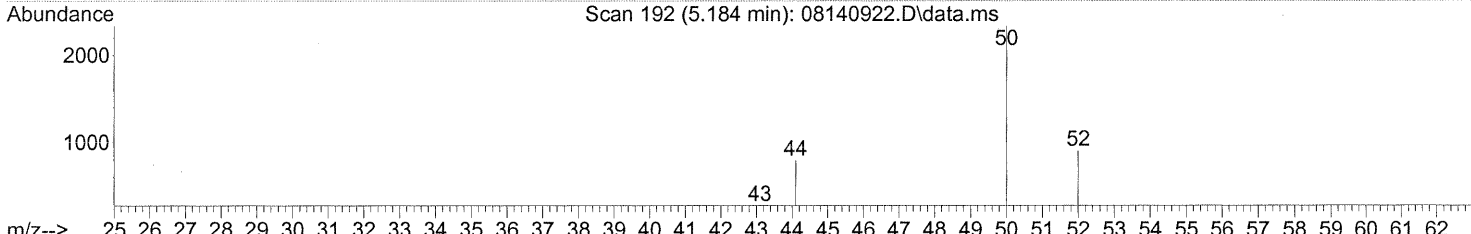
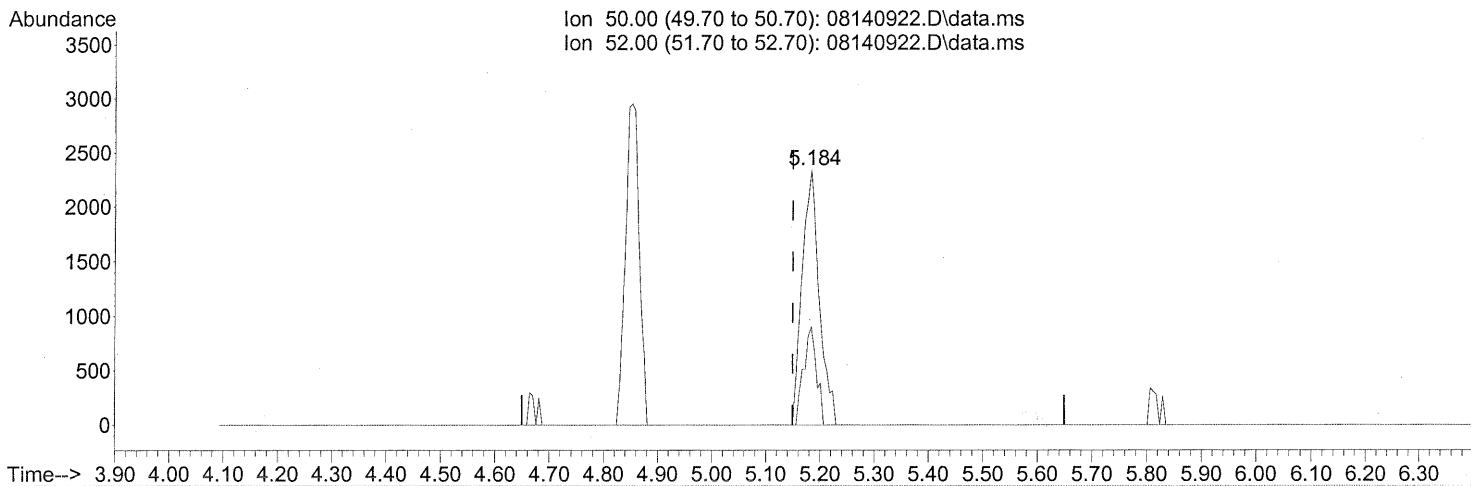
response 45721

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.62
100.90	8.80	8.96
102.90	5.20	5.65

Quantitation Report (Qedit)

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 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
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 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

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 Quant Method : J:\MS13\METHODS\R13080609.M
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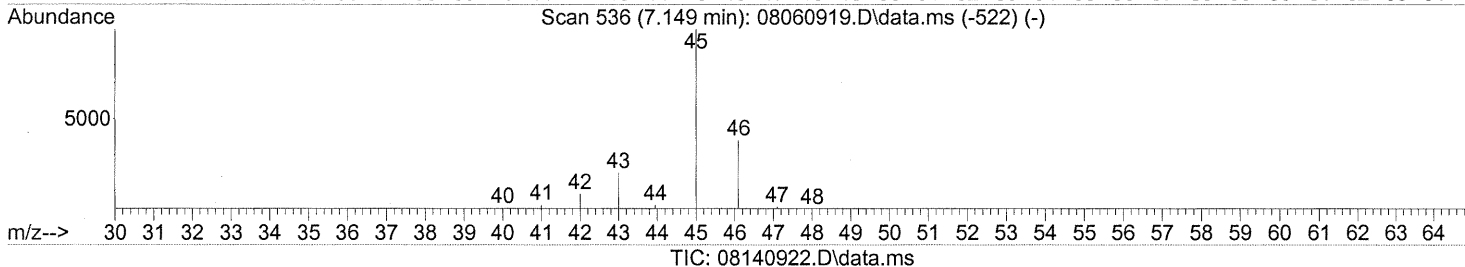
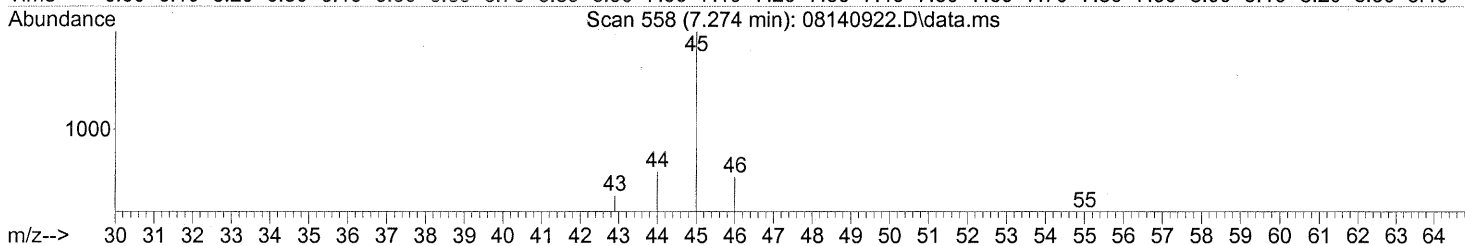
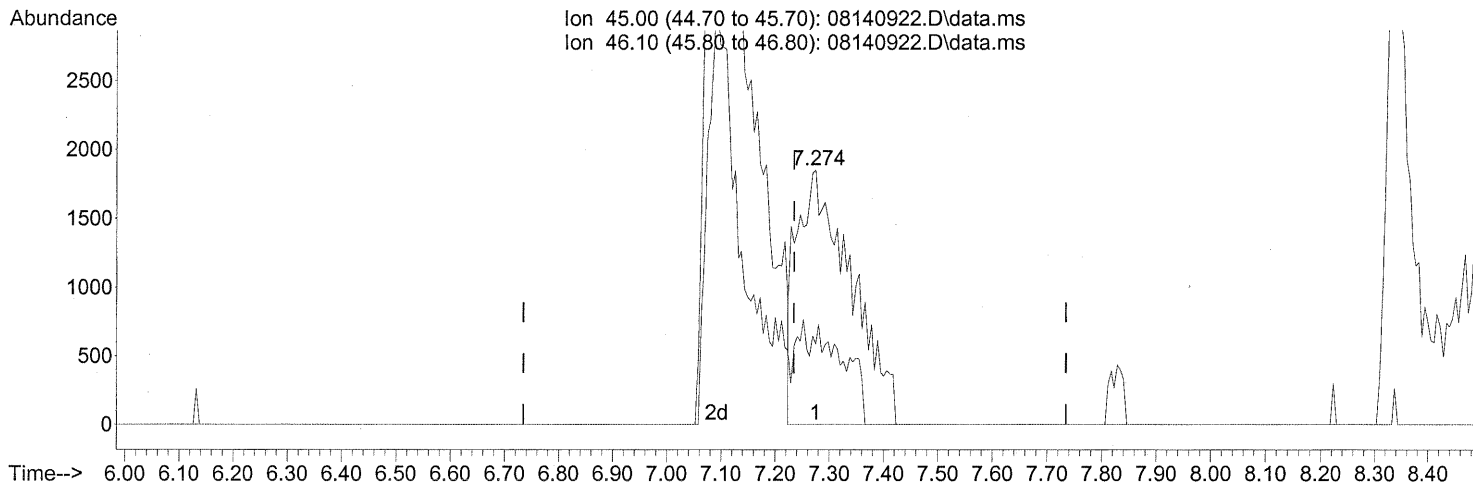
(4) Chloromethane (T)
 5.184min (+0.034) 0.35ng
 response 5159

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
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 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.274min (+0.040) 1.50ng

response 12902

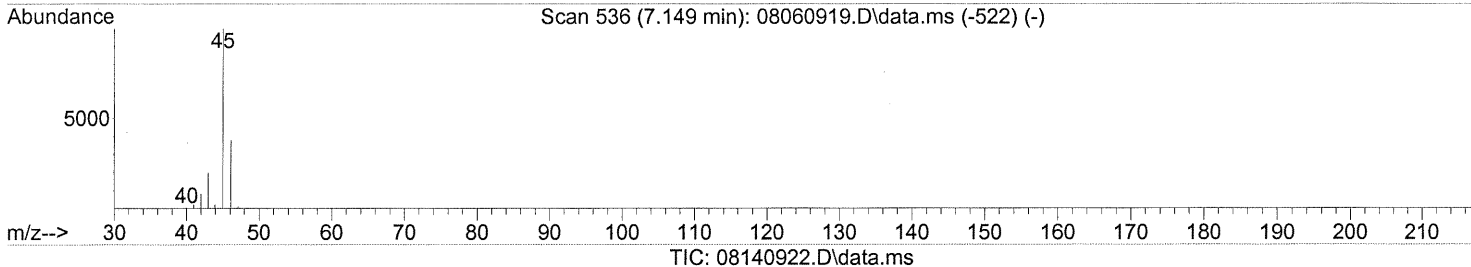
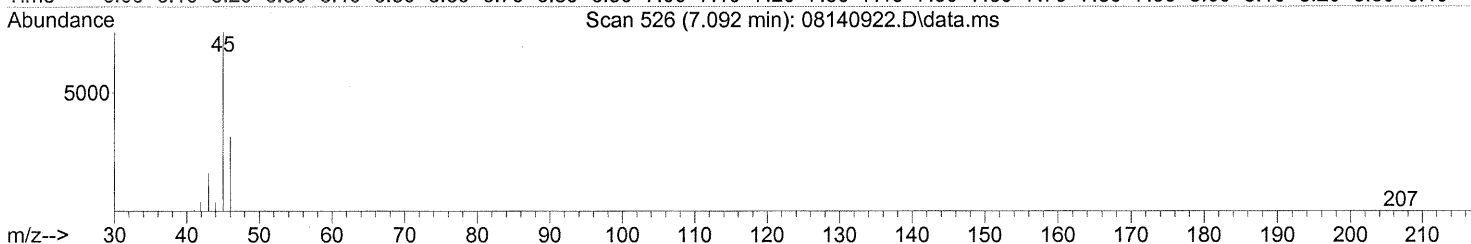
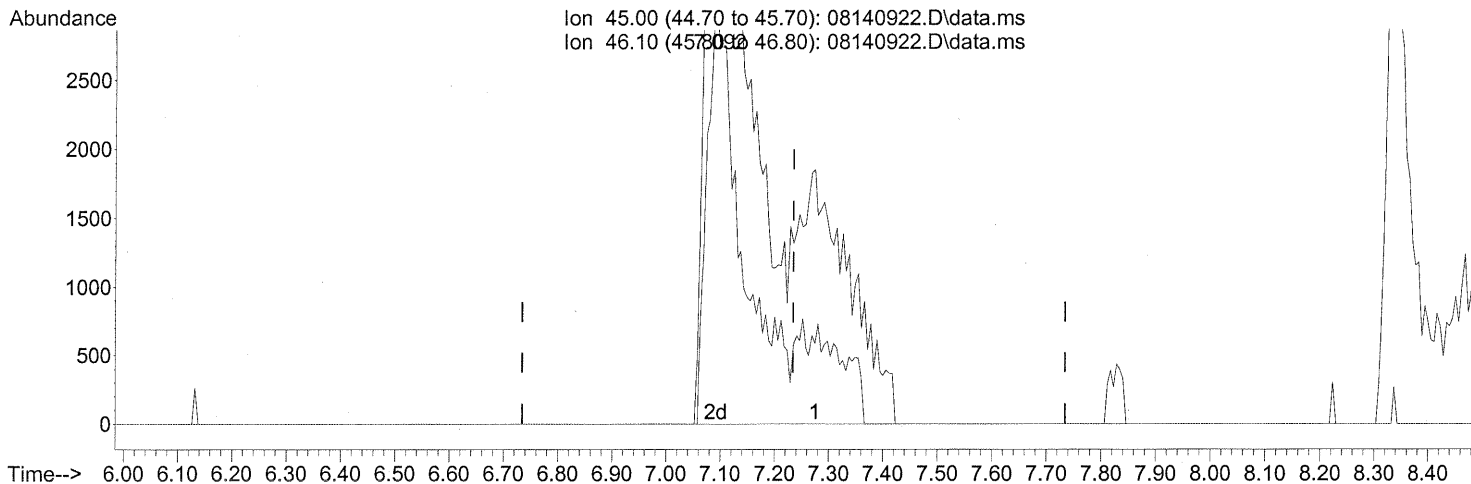
SP

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	0.00#
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)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(10) Ethanol (T)
7.092min (-0.143) 5.45ng m
response 46762

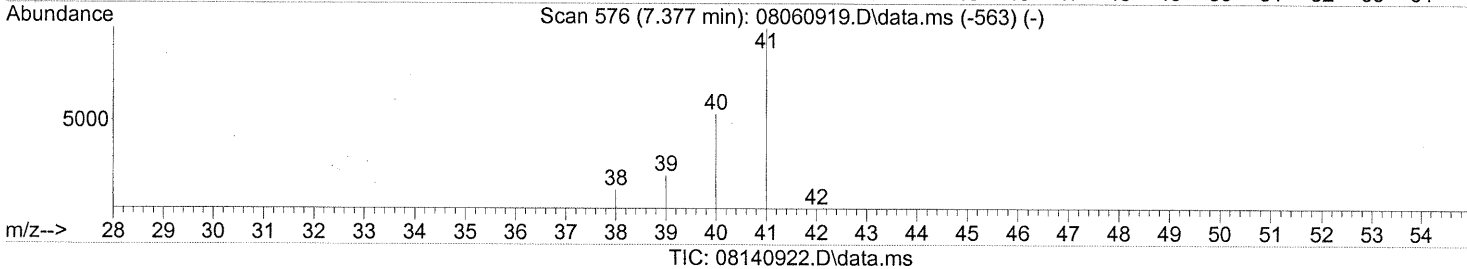
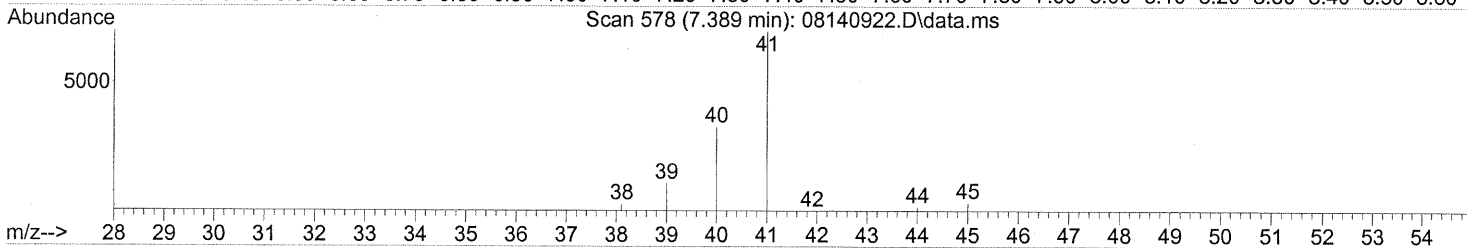
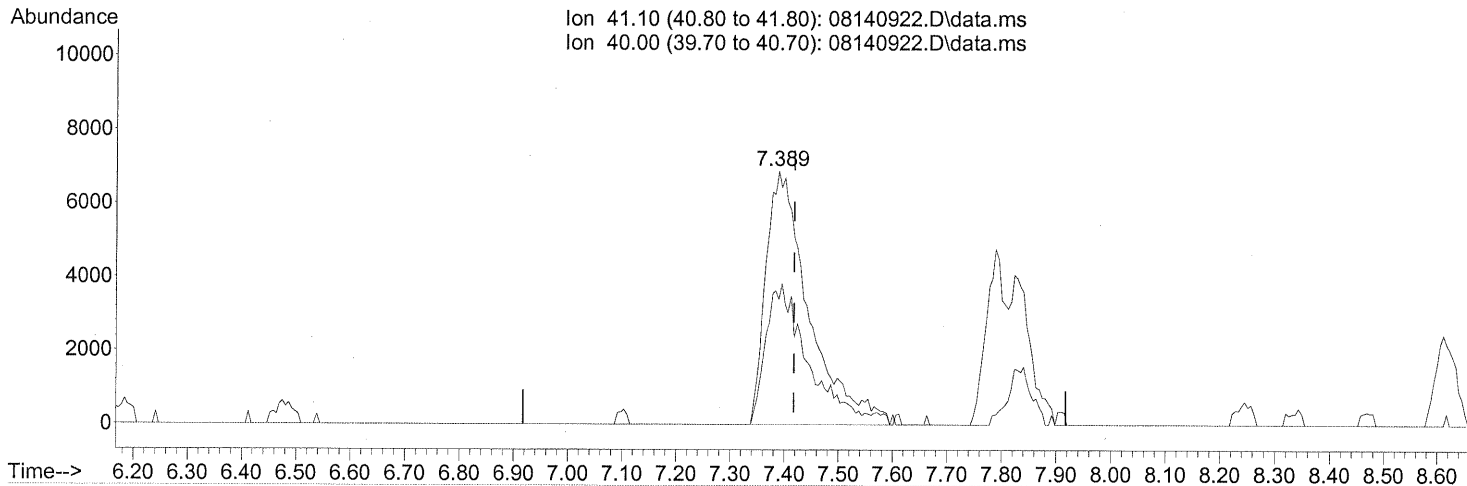
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
in 8/20/09
com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140922.D
Acq On : 14 Aug 2009 20:47
Operator : WA
Sample : P0902721-003 (1000mL)
Misc : Env. Health & Engineering 100216
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Quant Time: Aug 14 21:17:04 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



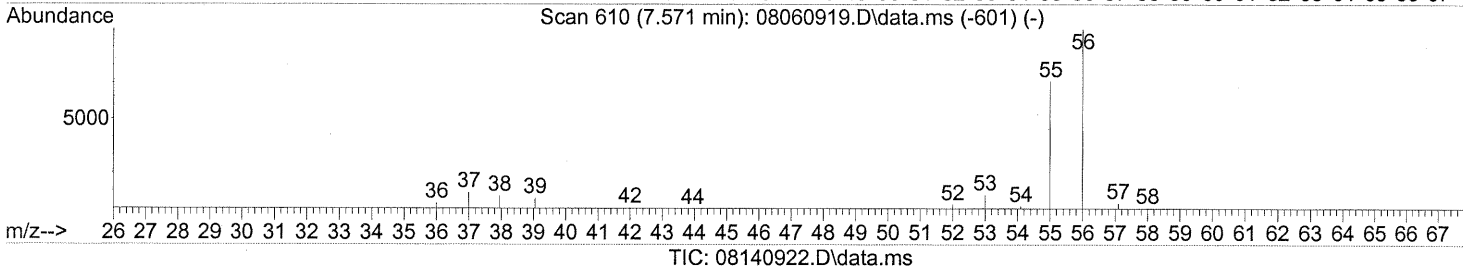
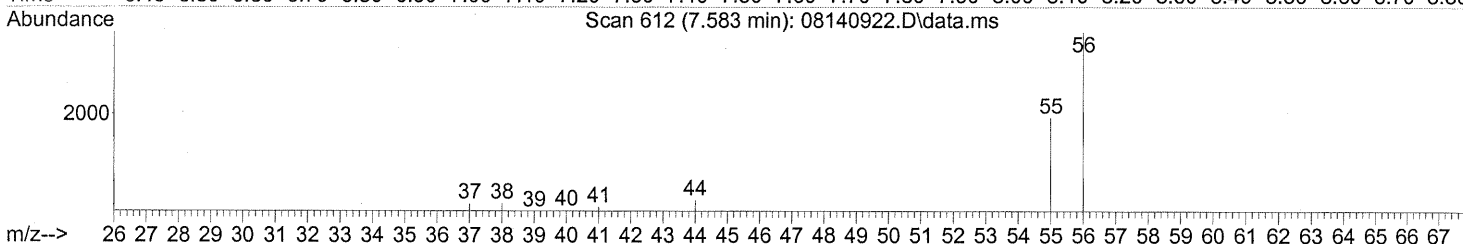
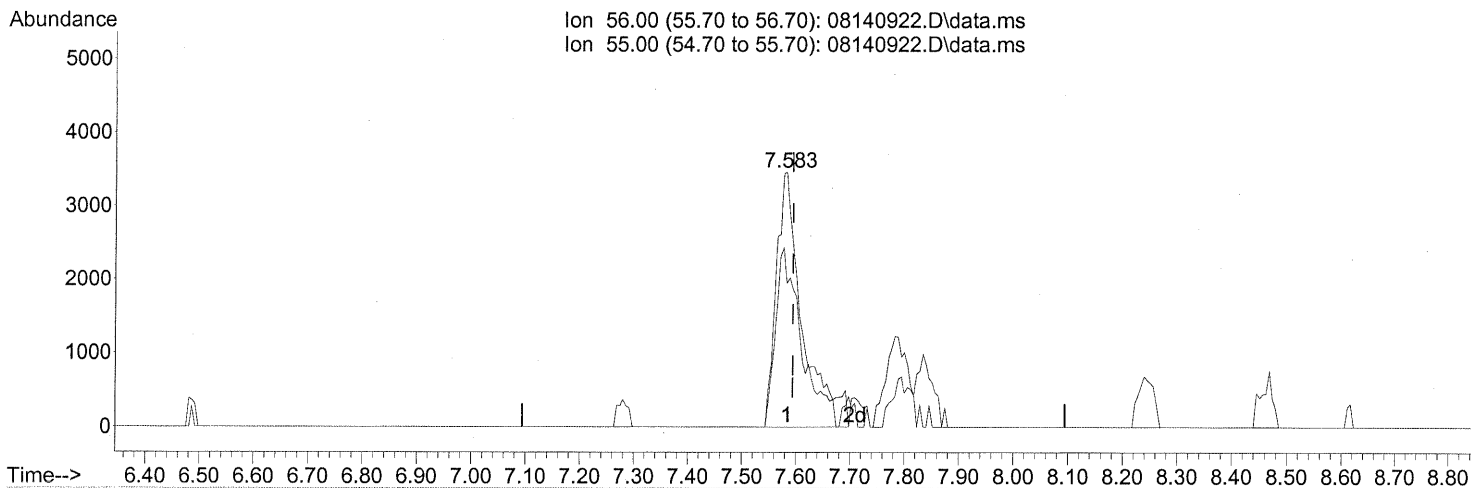
(11) Acetonitrile (T)
7.389min (-0.028) 1.51ng
response 37993

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	55.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 14 21:17:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.583min (-0.011) 1.78ng

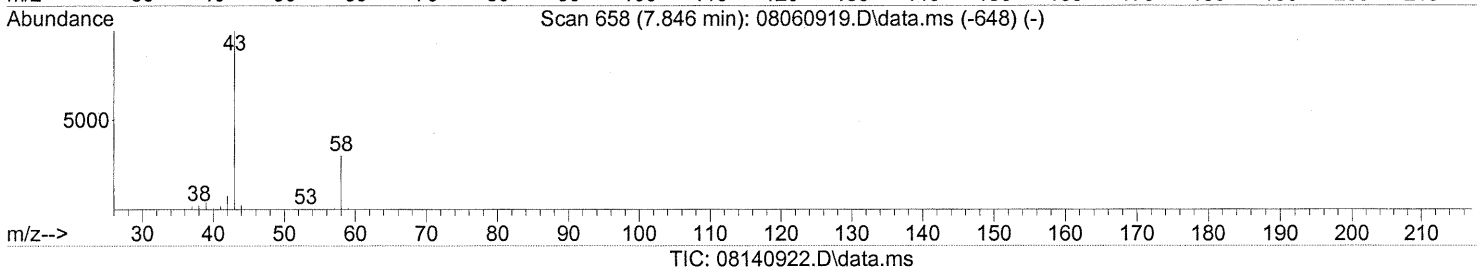
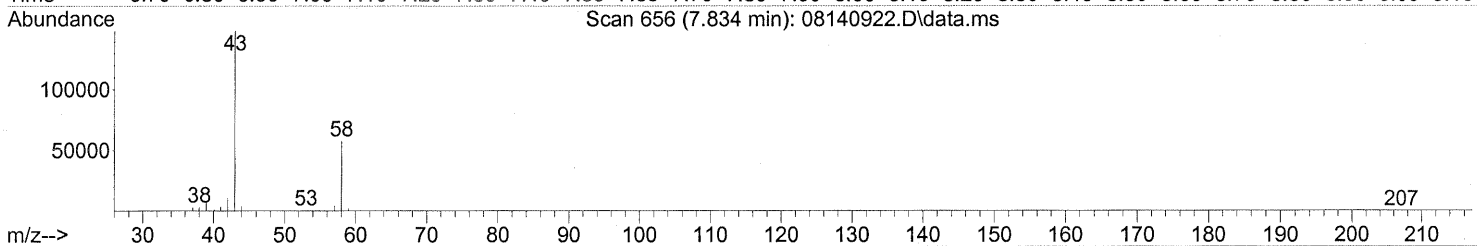
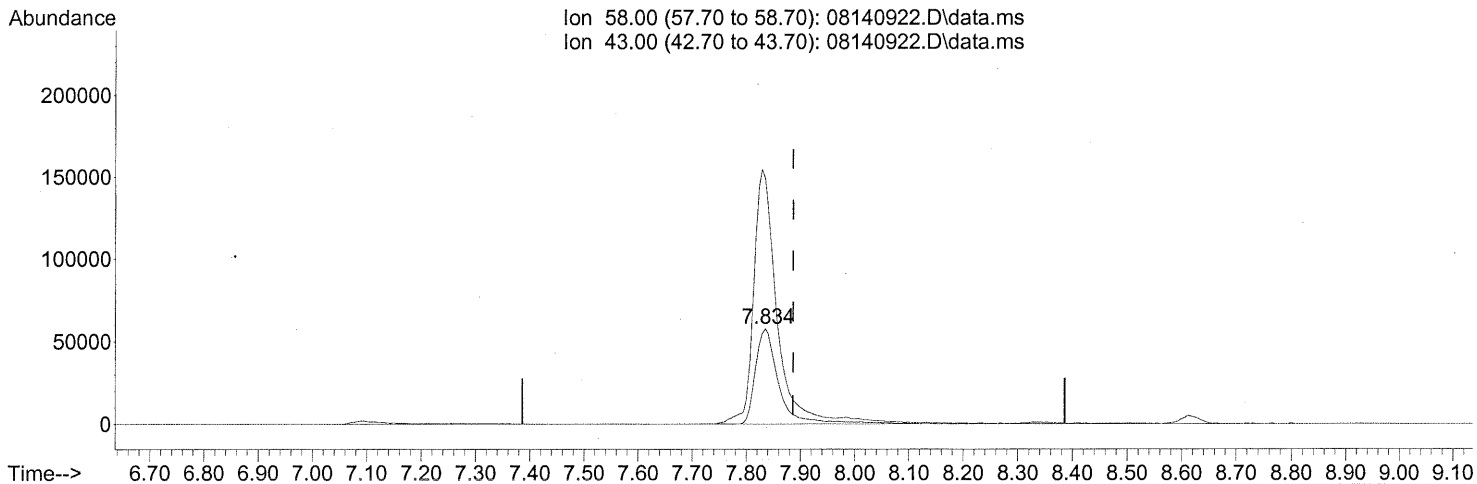
response 11620

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	69.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 14 21:17:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.834min (-0.052) 21.43ng

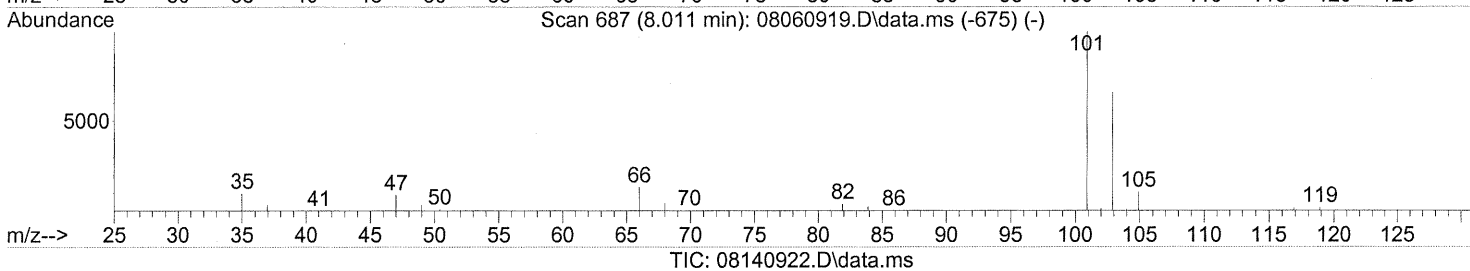
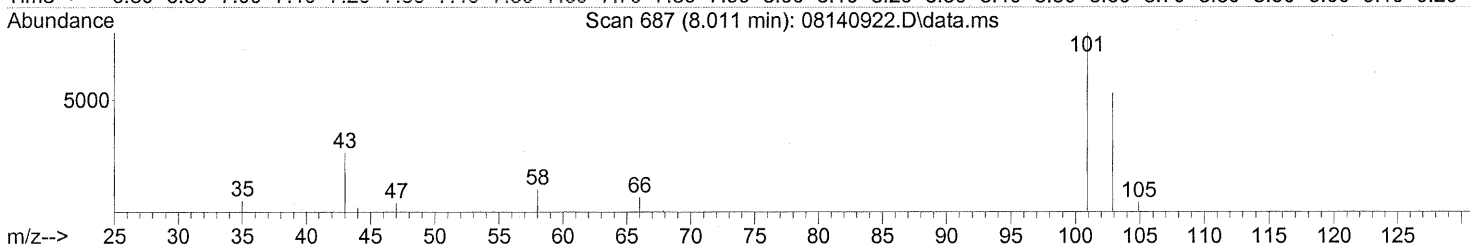
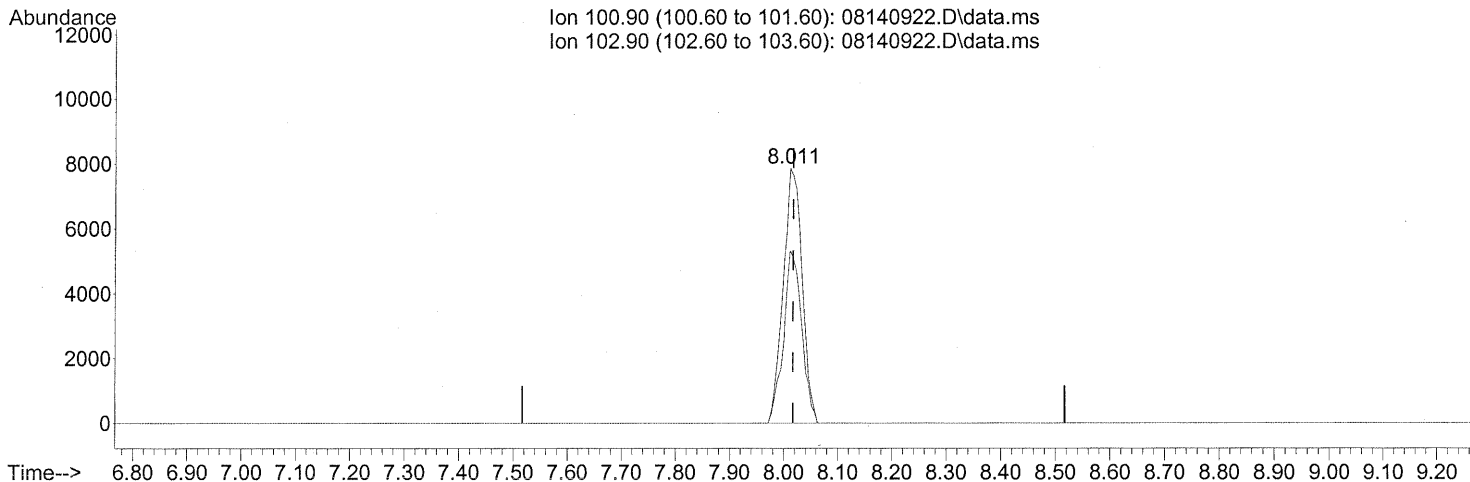
response 173419

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	273.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 14 21:17:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.011min (-0.006) 0.95ng

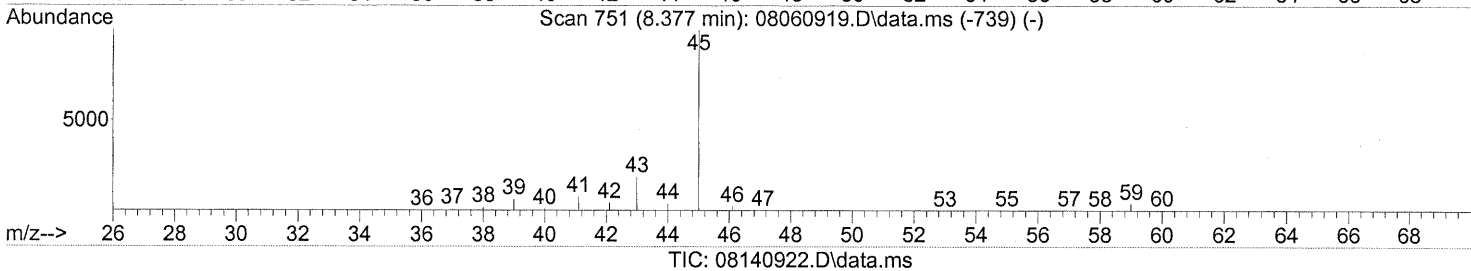
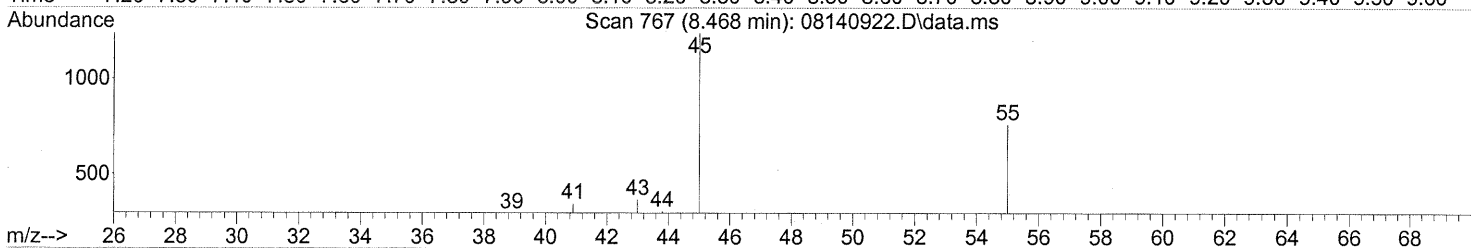
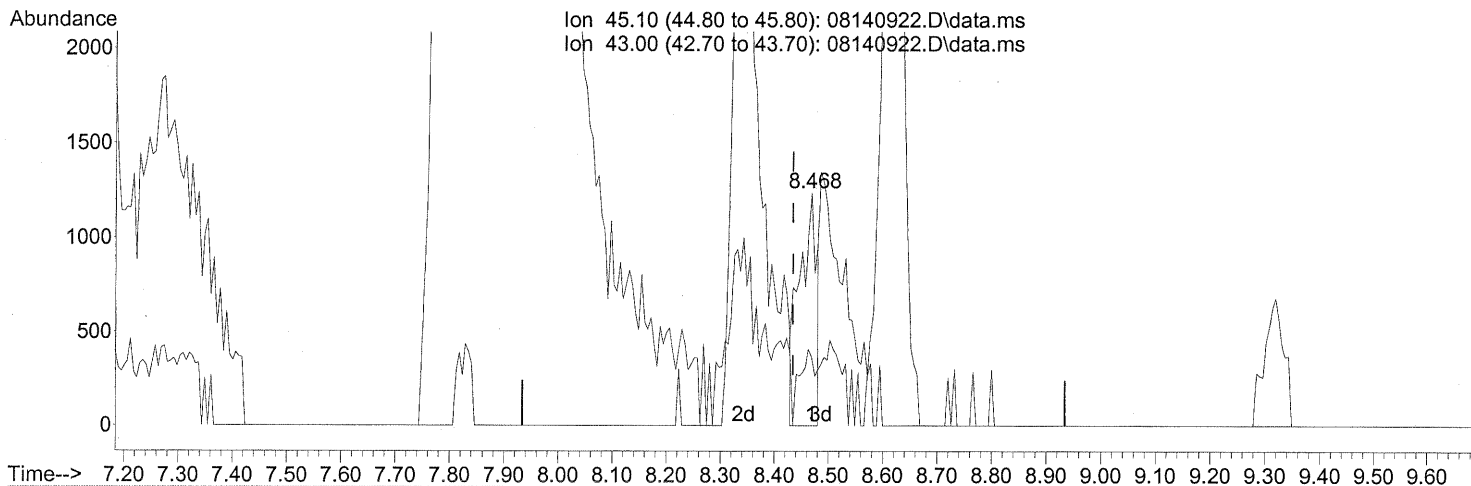
response 19090

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140922.D
Acq On : 14 Aug 2009 20:47
Operator : WA
Sample : P0902721-003 (1000mL)
Misc : Env. Health & Engineering 100216
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.468min (+0.034) 0.09ng

response 2704

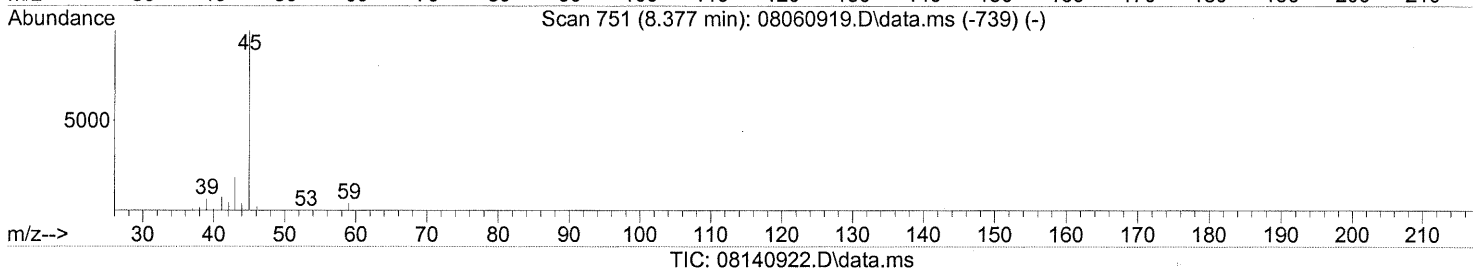
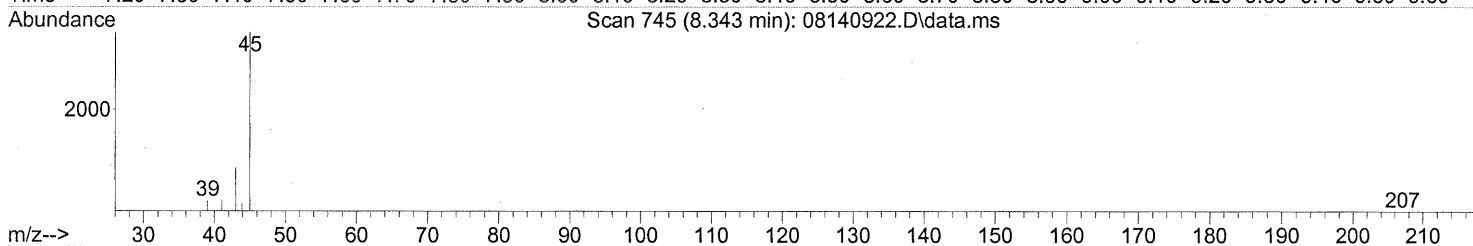
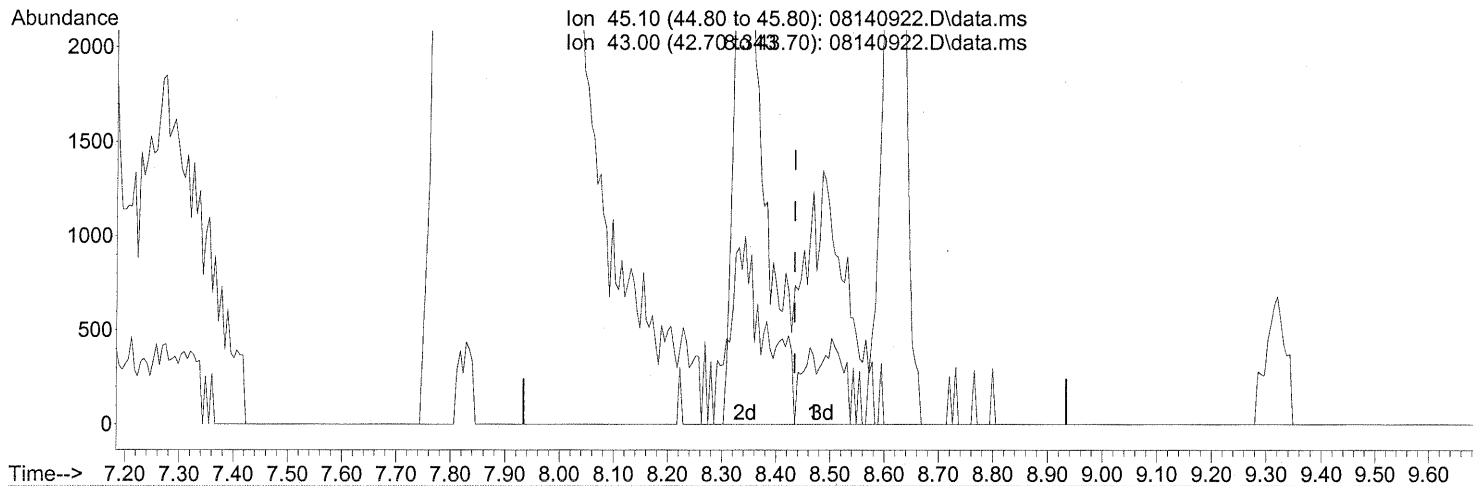
Ion	Exp%	Act%
45.10	100	100
43.00	19.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.343min (-0.091) 0.59ng m

response 18670

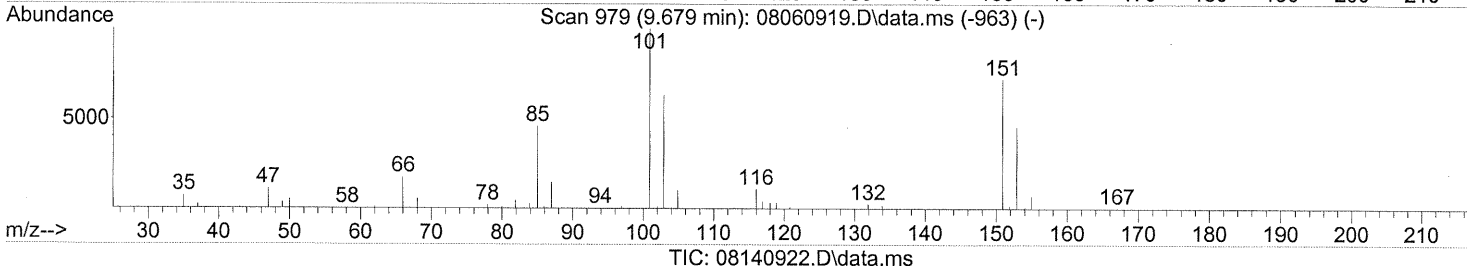
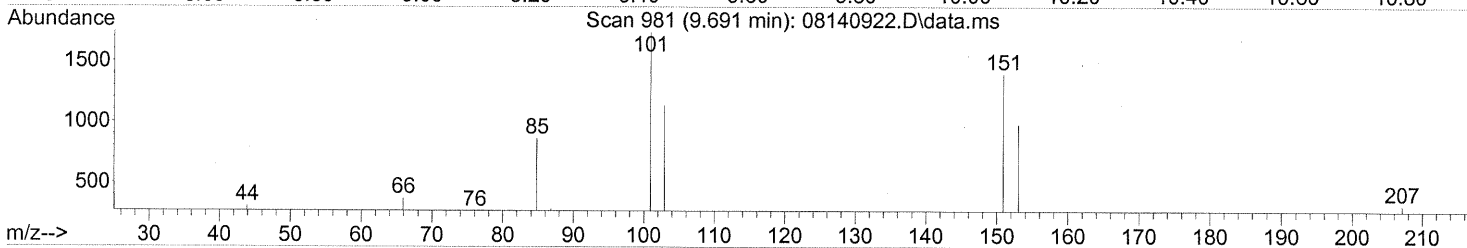
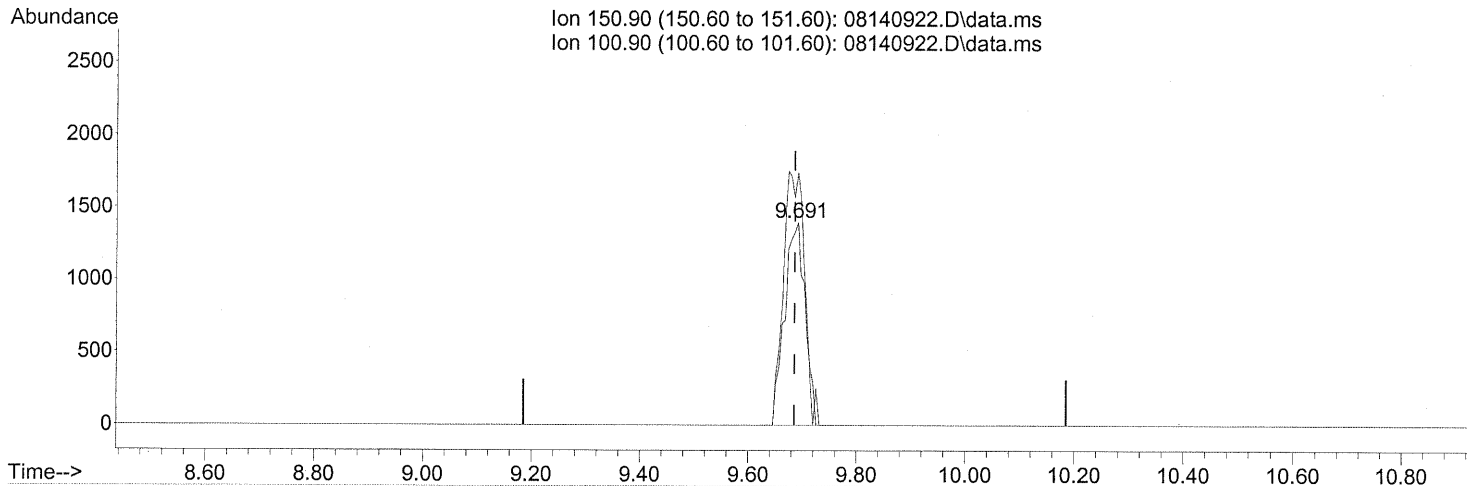
Ion	Exp%	Act%
45.10	100	100
43.00	19.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
UH 8/20/09
com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140922.D
Acq On : 14 Aug 2009 20:47
Operator : WA
Sample : P0902721-003 (1000mL)
Misc : Env. Health & Engineering 100216
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.691min (+0.006) 0.50ng

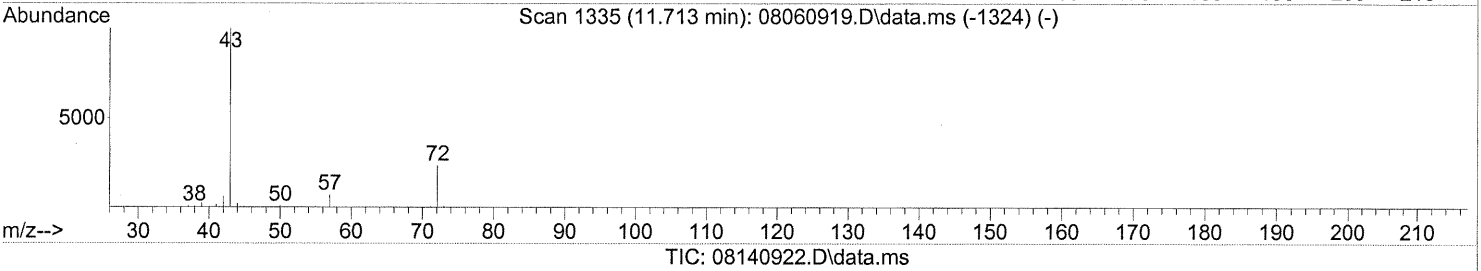
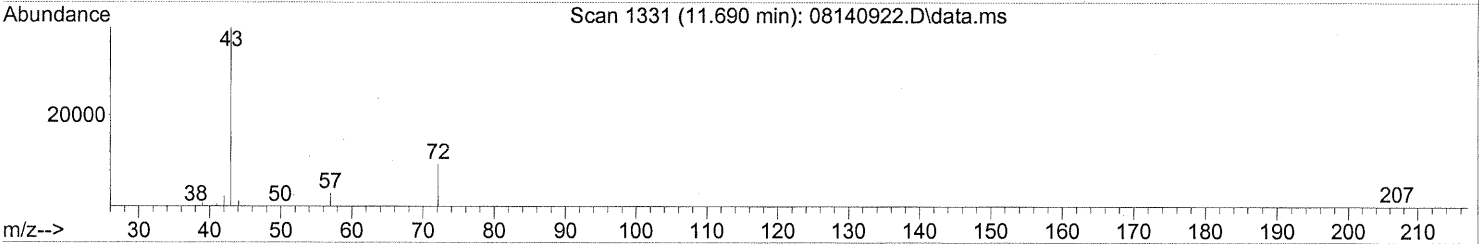
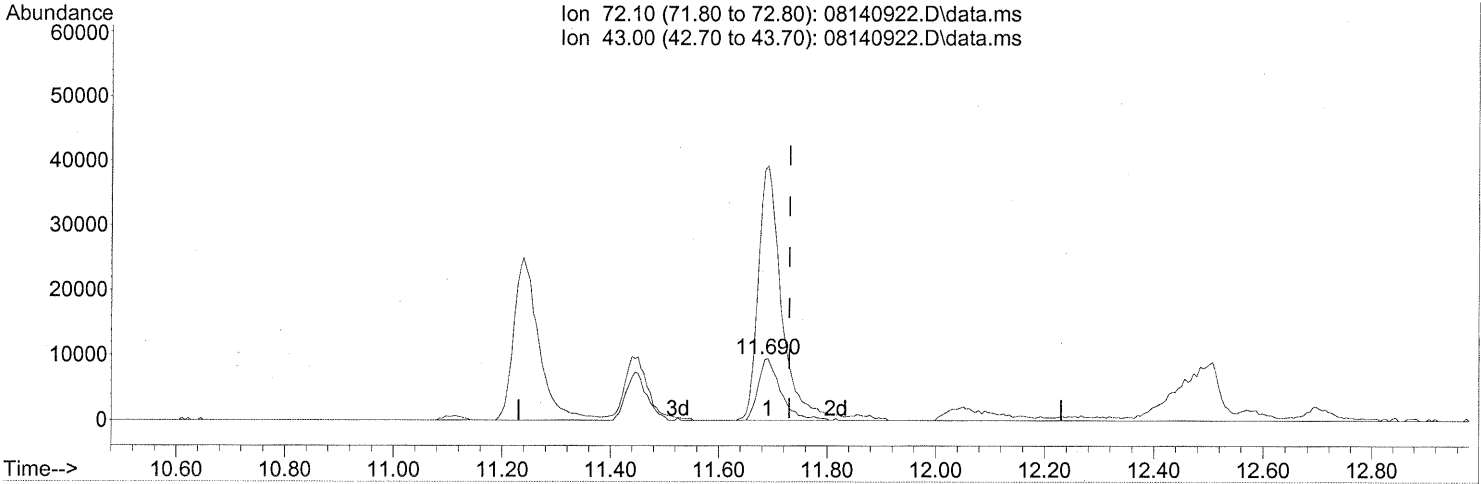
response 3638

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	130.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.690min (-0.040) 3.77ng

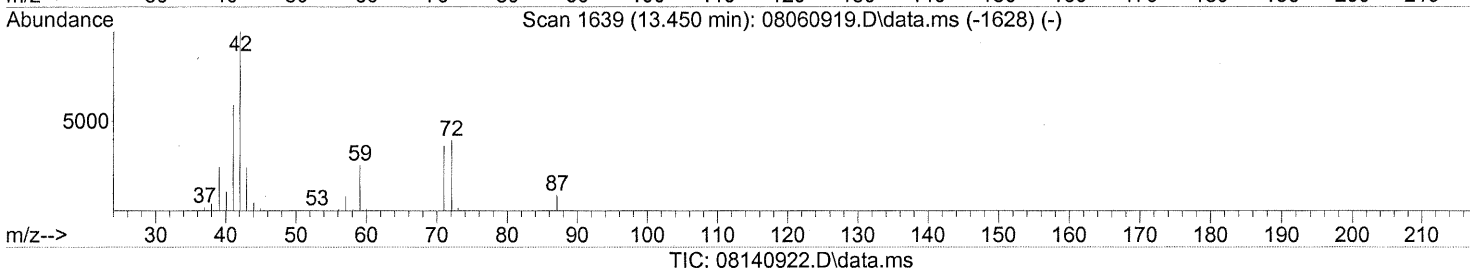
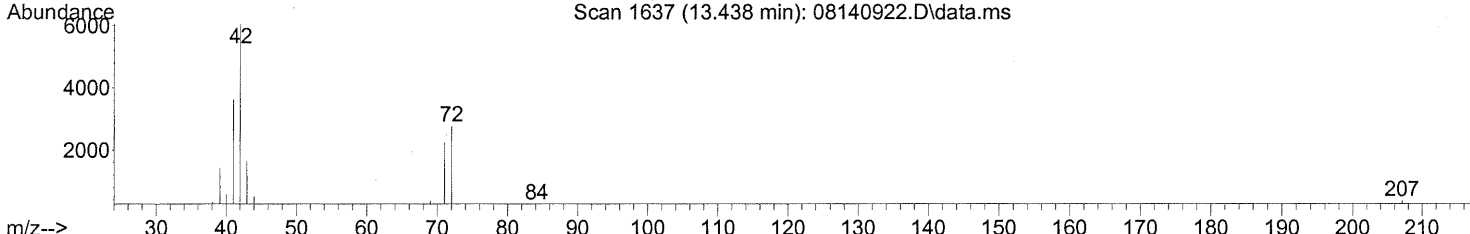
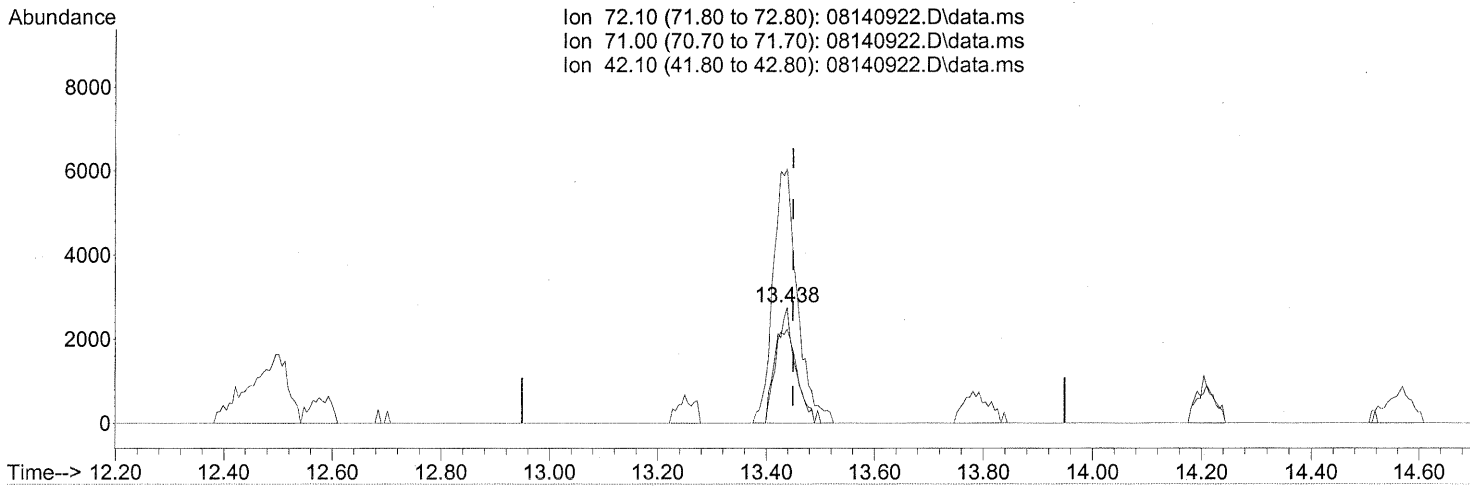
response 27557

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	436.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.438min (-0.011) 0.91ng

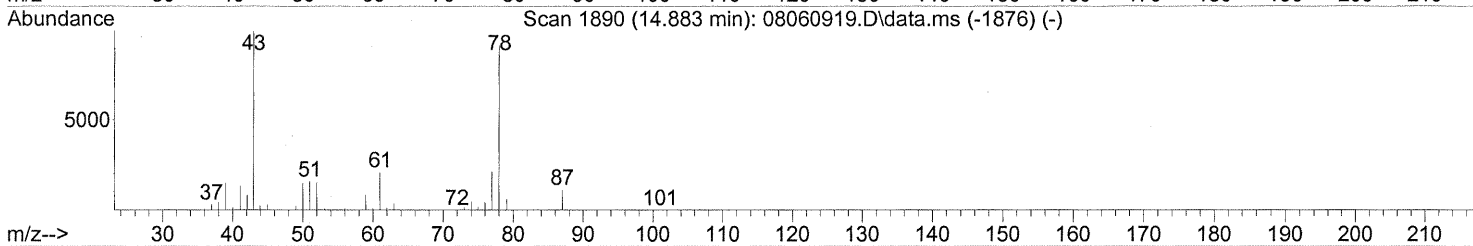
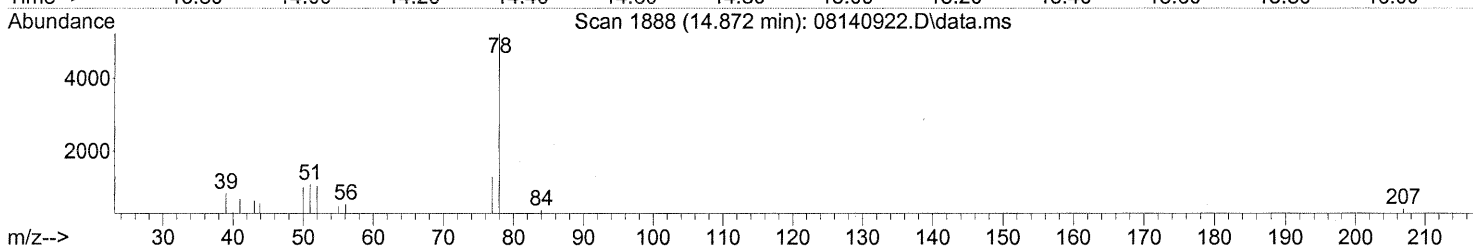
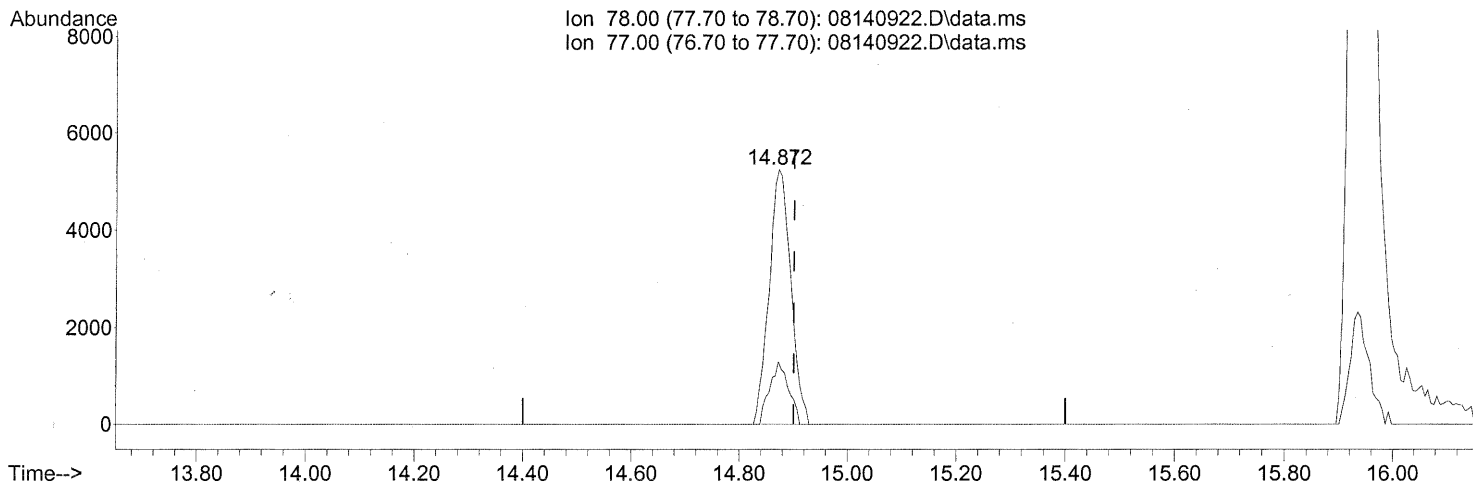
response 7048

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	91.88
42.10	253.40	268.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.872min (-0.028) 0.34ng

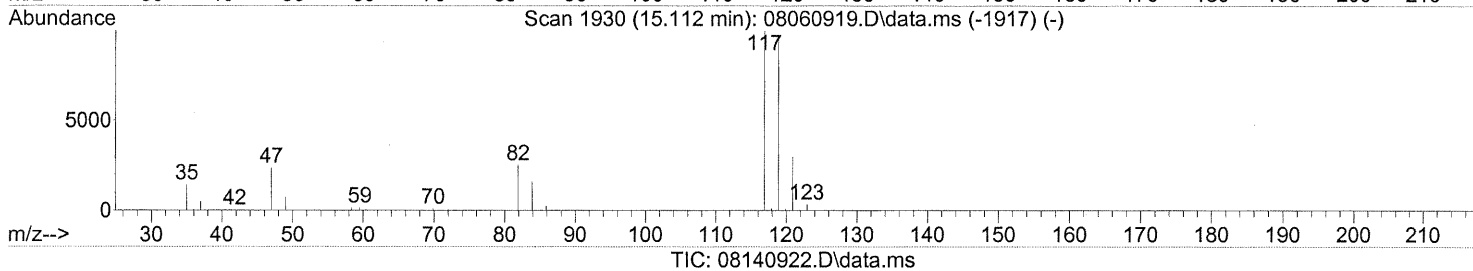
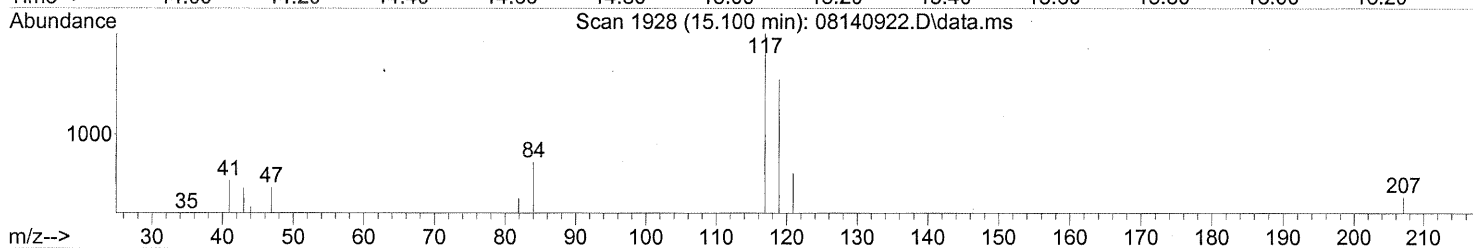
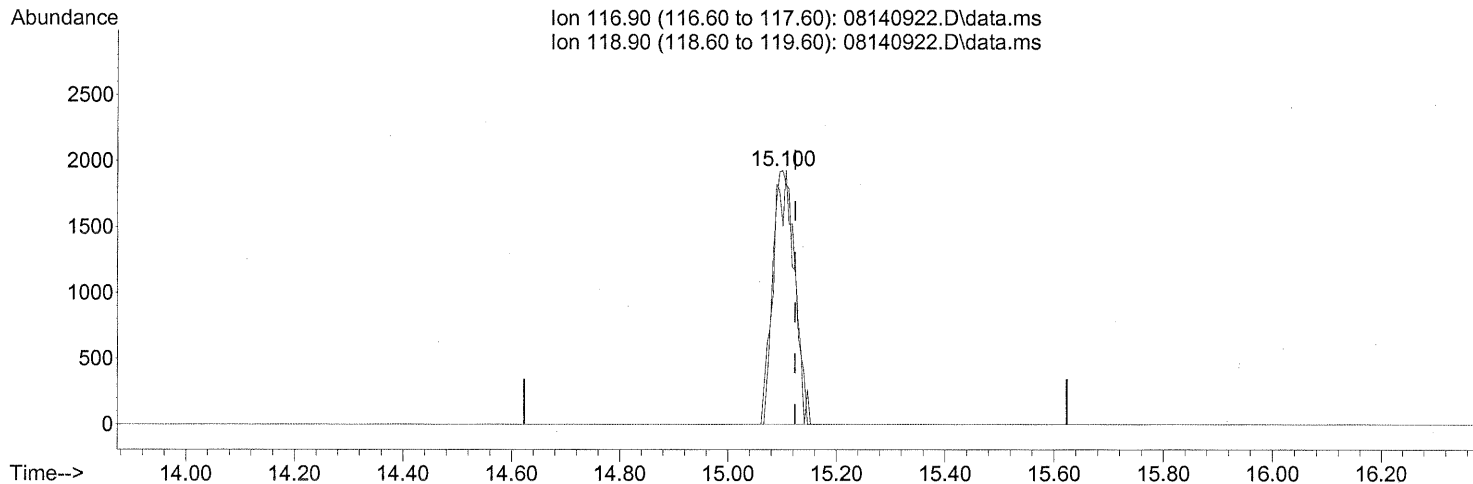
response 14626

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	21.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.39ng

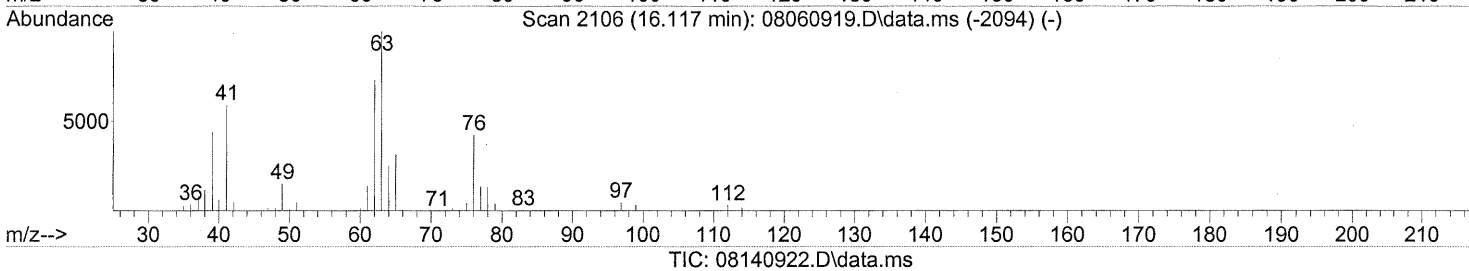
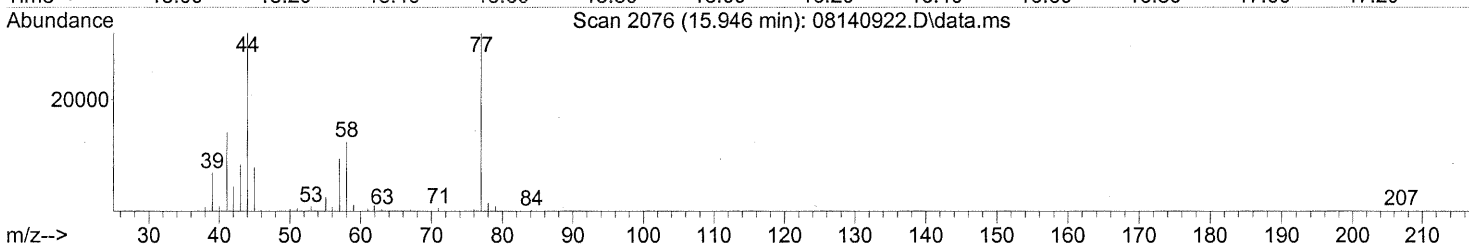
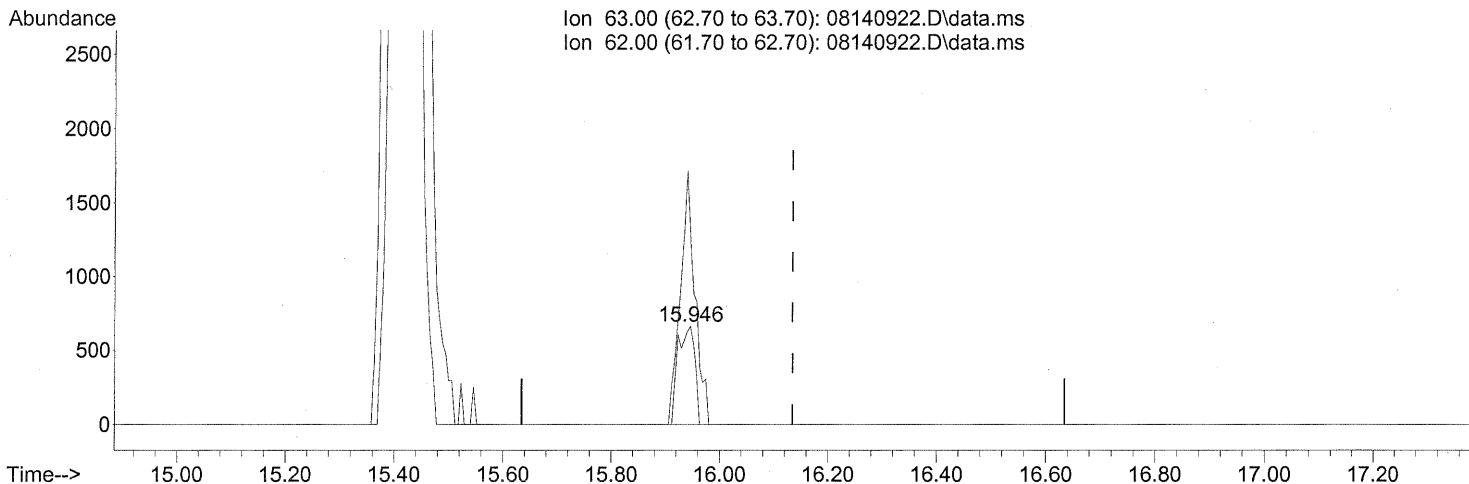
response 5440

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	94.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

15.946min (-0.188) 0.13ng

response 1419

Ion	Exp%	Act%
63.00	100	100
62.00	71.20	226.92#
0.00	0.00	0.00
0.00	0.00	0.00

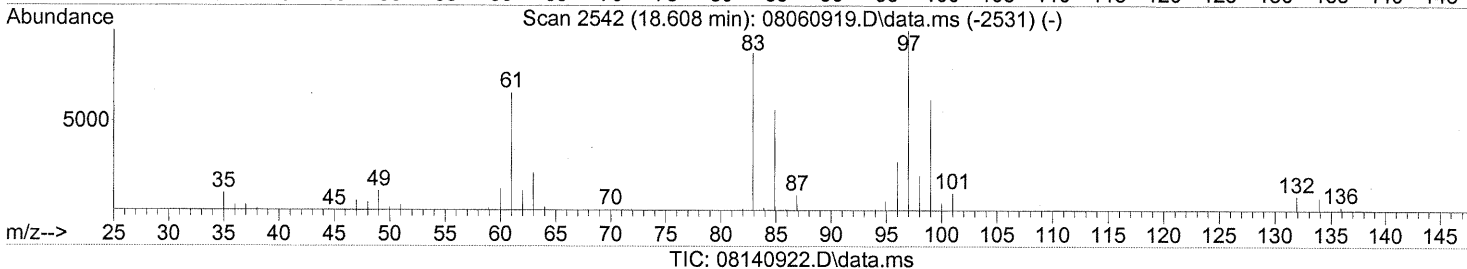
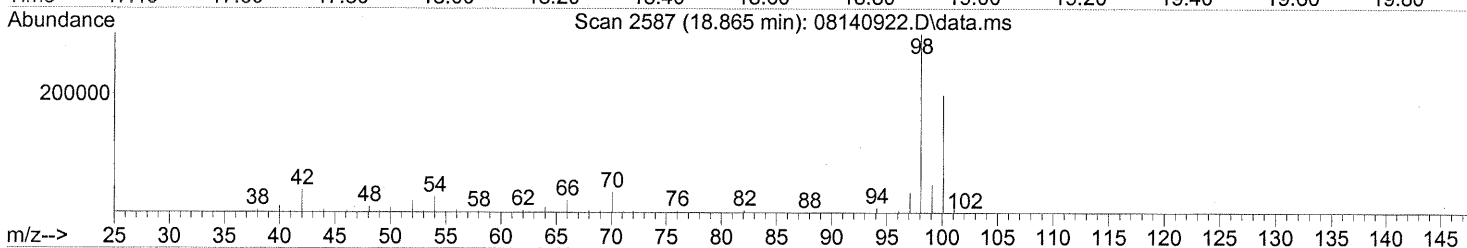
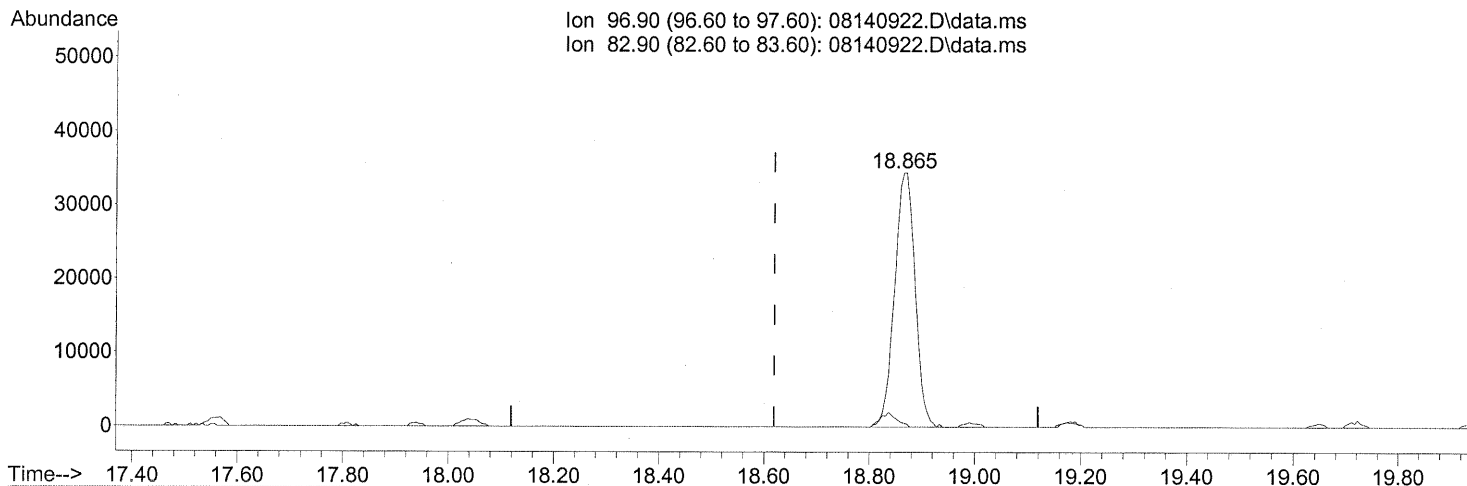
FP UR 8/20/09

sem 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

FP W 8/20/09

18.865min (+0.246) 9.71ng

response 92676

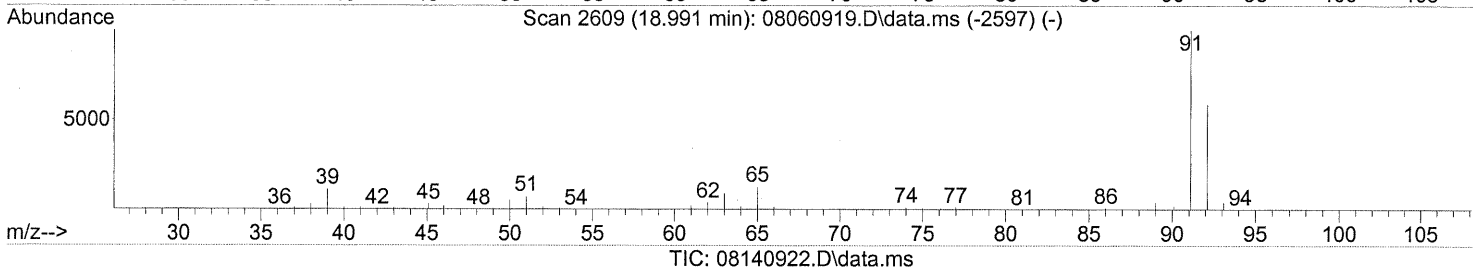
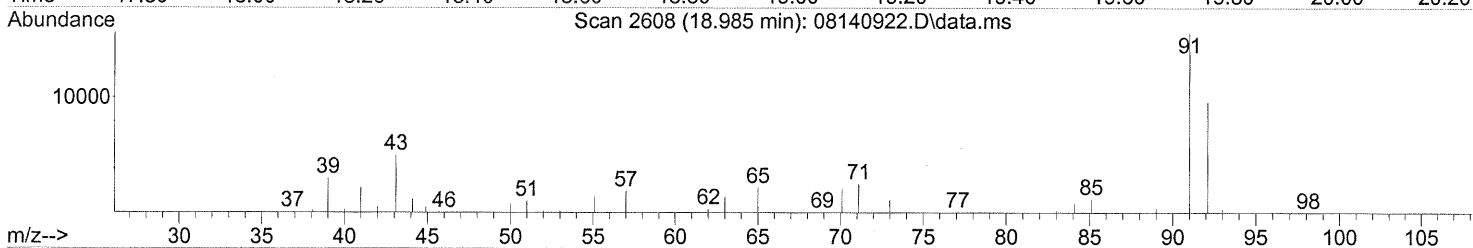
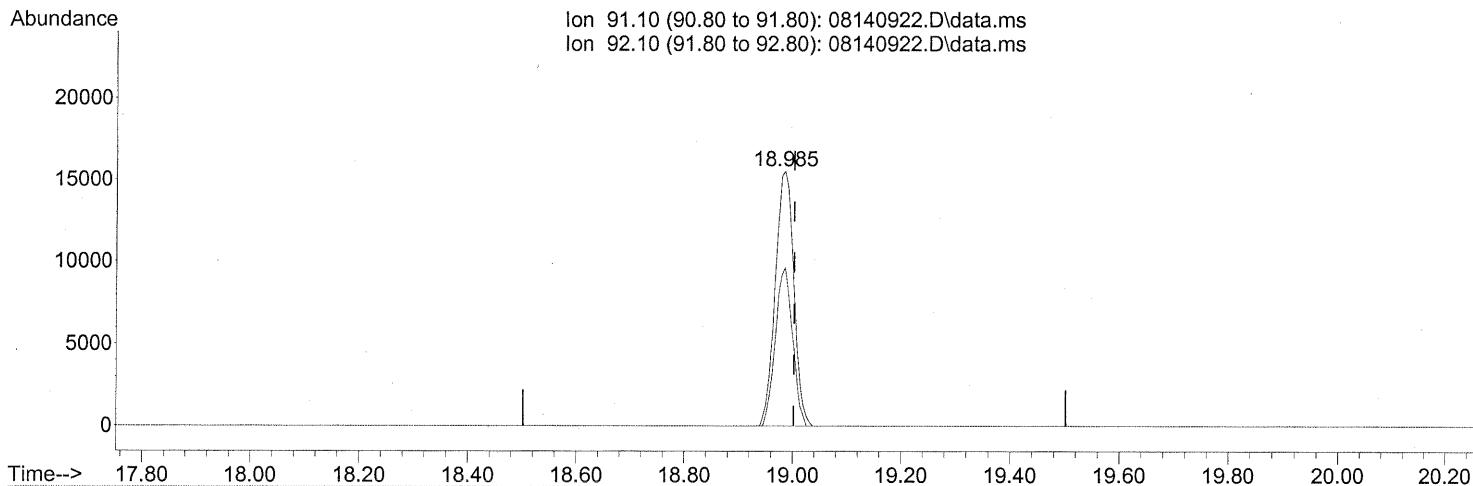
em 8/21/09

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140922.D
Acq On : 14 Aug 2009 20:47
Operator : WA
Sample : P0902721-003 (1000mL)
Misc : Env. Health & Engineering 100216
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 0.88ng

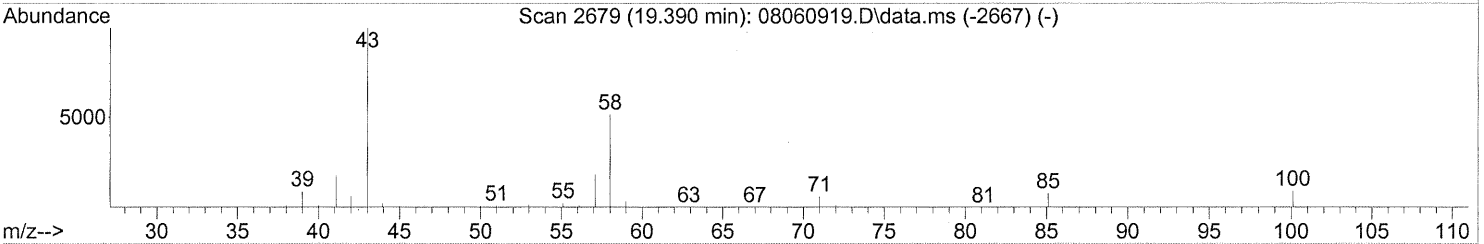
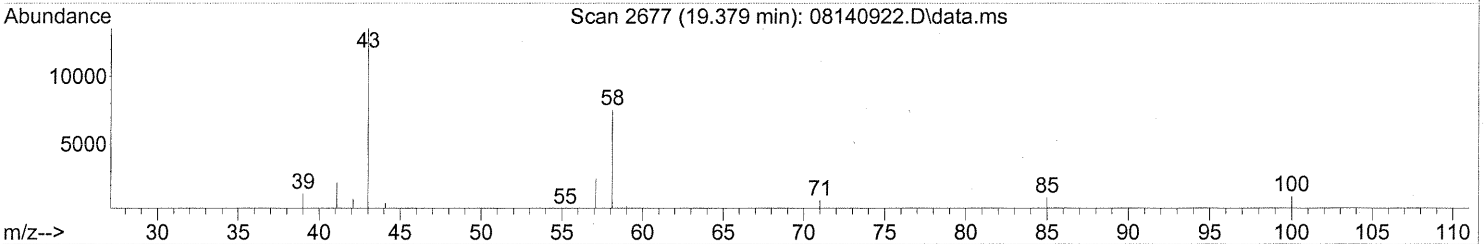
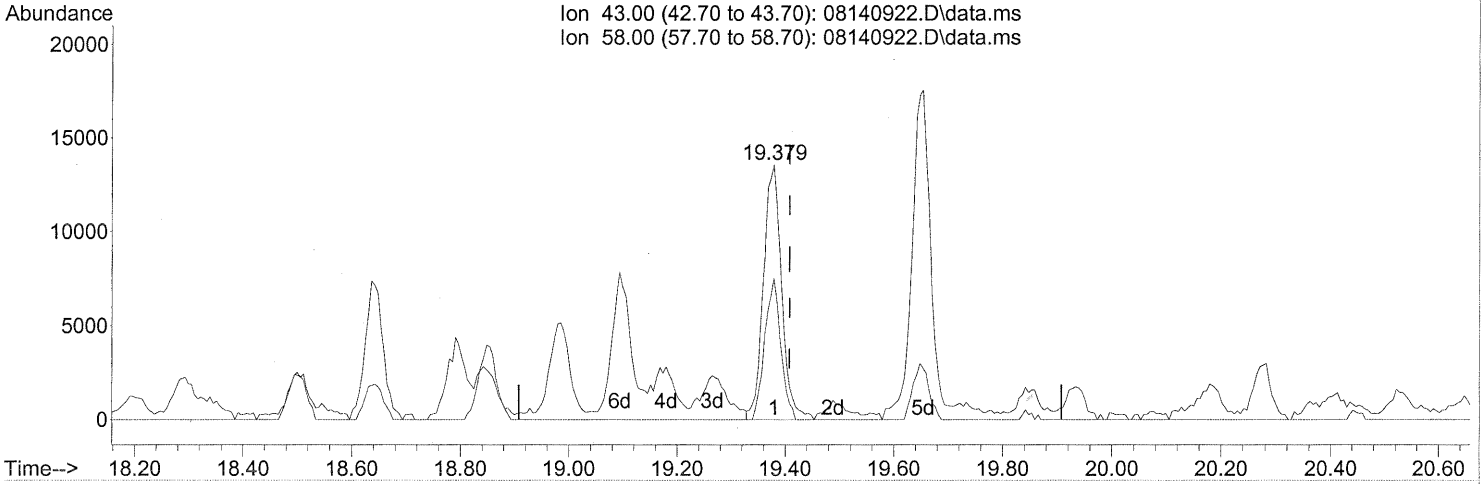
response 36663

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	57.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140922.D\data.ms

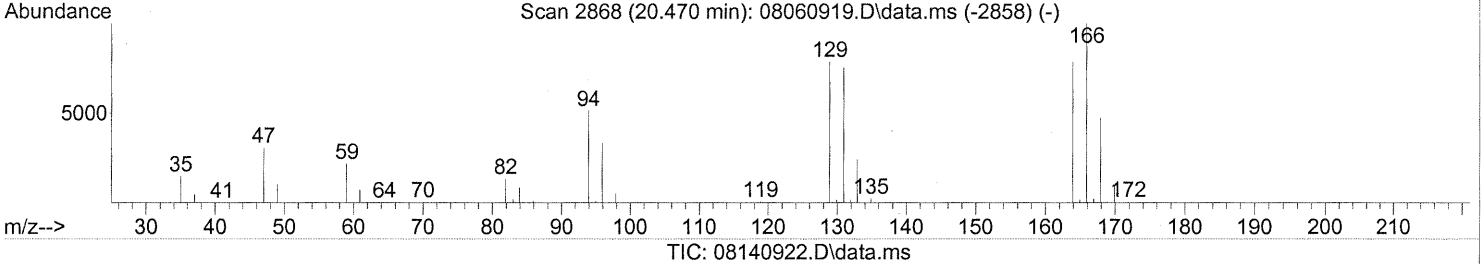
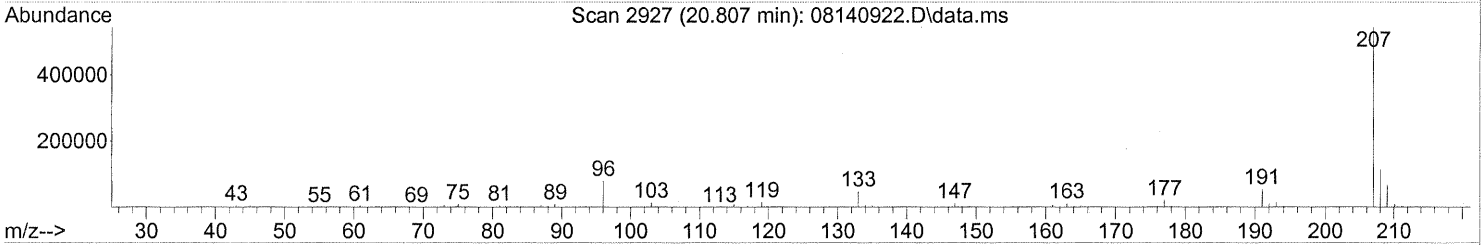
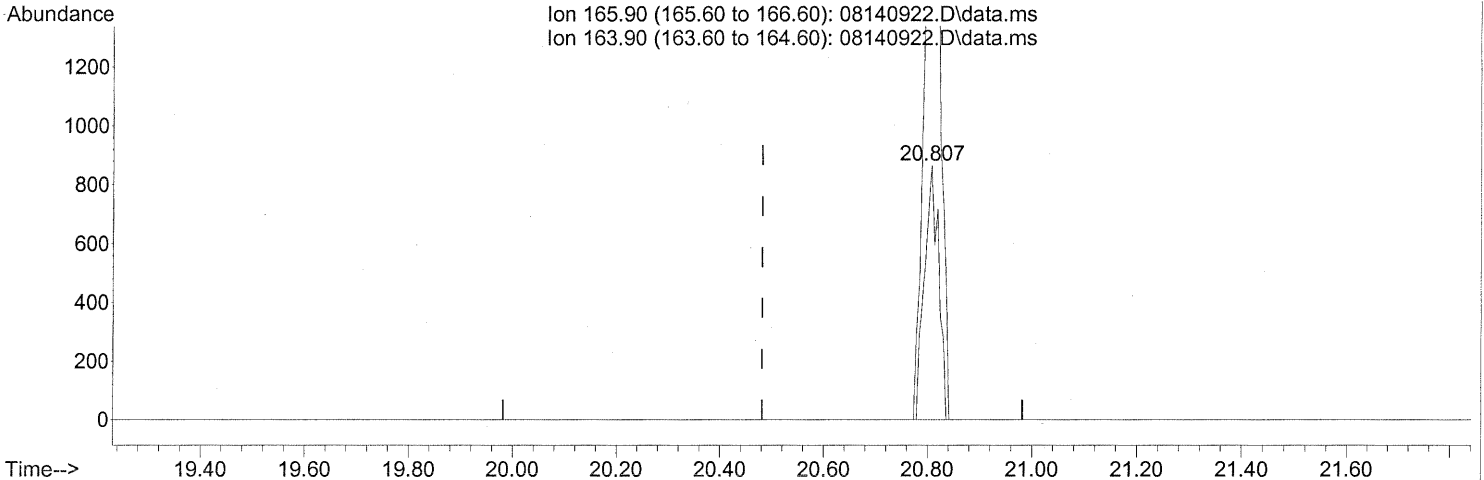
(59) 2-Hexanone (T)
 19.379min (-0.028) 1.14ng
 response 31568

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	48.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.807min (+0.326) 0.17ng

response 1633

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	289.71#
0.00	0.00	0.00
0.00	0.00	0.00

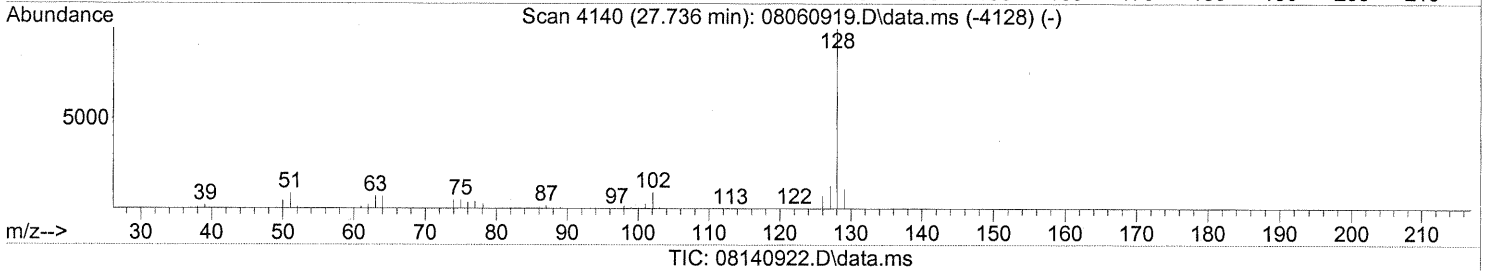
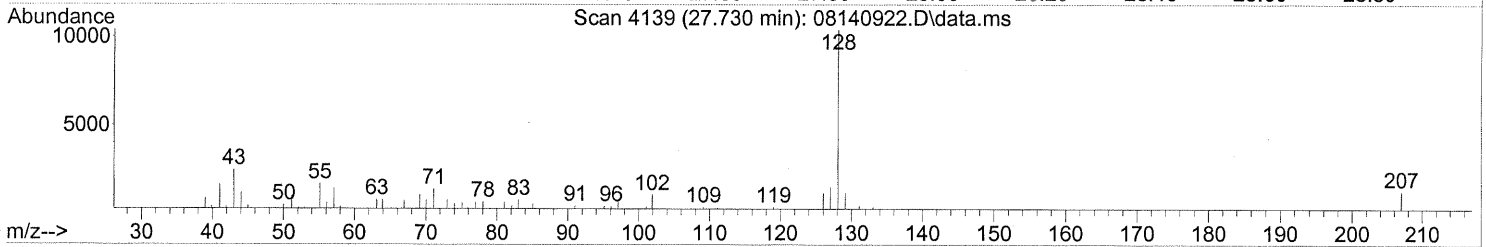
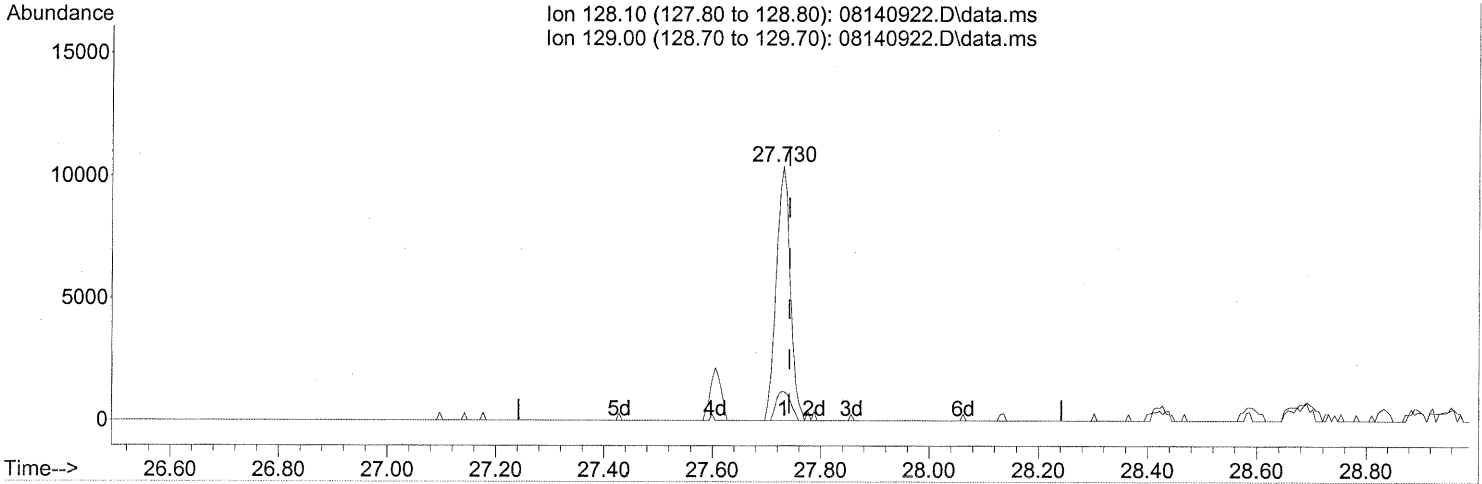
FP in 8/20/09

com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140922.D
 Acq On : 14 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-003 (1000mL)
 Misc : Env. Health & Engineering 100216
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 16:08:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(95) Naphthalene (T)
 27.730min (-0.011) 0.35ng
 response 18704

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.82
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100217

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-004

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: AC00407

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/14/09

Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	1.8	0.84	1.0	0.49	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.84	0.58	0.17	
74-87-3	Chloromethane	0.95	0.17	0.46	0.081	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.84	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.17	ND	0.065	
106-99-0	1,3-Butadiene	ND	0.17	ND	0.076	
74-83-9	Bromomethane	0.49	0.17	0.13	0.043	
75-00-3	Chloroethane	ND	0.17	ND	0.063	
64-17-5	Ethanol	190	8.4	99	4.4	
75-05-8	Acetonitrile	340	0.84	200	0.50	E
107-02-8	Acrolein	3.7	0.84	1.6	0.36	
67-64-1	Acetone	57	8.4	24	3.5	
75-69-4	Trichlorofluoromethane	1.4	0.17	0.25	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.7	0.84	2.3	0.34	
107-13-1	Acrylonitrile	ND	0.84	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.17	ND	0.042	
75-09-2	Methylene Chloride	ND	0.84	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	ND	0.053	
76-13-1	Trichlorotrifluoroethane	0.66	0.17	0.086	0.022	
75-15-0	Carbon Disulfide	ND	0.84	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	ND	0.042	
75-34-3	1,1-Dichloroethane	ND	0.17	ND	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	ND	0.046	
108-05-4	Vinyl Acetate	ND	8.4	ND	2.4	
78-93-3	2-Butanone (MEK)	2.8	0.84	0.94	0.28	

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.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100217
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-004

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: AC00407

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	ND	0.042	
141-78-6	Ethyl Acetate	1.6	0.84	0.45	0.23	
110-54-3	n-Hexane	4.4	0.84	1.3	0.24	
67-66-3	Chloroform	0.83	0.17	0.17	0.034	
109-99-9	Tetrahydrofuran (THF)	1.1	0.84	0.38	0.28	
107-06-2	1,2-Dichloroethane	0.31	0.17	0.076	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.17	ND	0.031	
71-43-2	Benzene	3.8	0.17	1.2	0.052	
56-23-5	Carbon Tetrachloride	0.56	0.17	0.090	0.027	
110-82-7	Cyclohexane	0.84	0.84	0.24	0.24	
78-87-5	1,2-Dichloropropane	ND	0.17	ND	0.036	
75-27-4	Bromodichloromethane	0.39	0.17	0.058	0.025	
79-01-6	Trichloroethene	ND	0.17	ND	0.031	
123-91-1	1,4-Dioxane	ND	0.84	ND	0.23	
80-62-6	Methyl Methacrylate	ND	0.84	ND	0.20	
142-82-5	n-Heptane	1.5	0.84	0.36	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.84	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.17	ND	0.031	
108-88-3	Toluene	15	0.84	3.9	0.22	
591-78-6	2-Hexanone	ND	0.84	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.17	ND	0.020	
106-93-4	1,2-Dibromoethane	ND	0.17	ND	0.022	
123-86-4	n-Butyl Acetate	1.5	0.84	0.31	0.18	

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: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100217
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-004

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: AC00407

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 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	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.84	ND	0.18	
127-18-4	Tetrachloroethene	ND	0.17	ND	0.025	
108-90-7	Chlorobenzene	ND	0.17	ND	0.036	
100-41-4	Ethylbenzene	2.9	0.84	0.67	0.19	
179601-23-1	m,p-Xylenes	10	0.84	2.3	0.19	
75-25-2	Bromoform	ND	0.84	ND	0.081	
100-42-5	Styrene	0.99	0.84	0.23	0.20	
95-47-6	o-Xylene	5.1	0.84	1.2	0.19	
111-84-2	n-Nonane	1.4	0.84	0.26	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	ND	0.024	
98-82-8	Cumene	ND	0.84	ND	0.17	
80-56-8	alpha-Pinene	66	0.84	12	0.15	
103-65-1	n-Propylbenzene	ND	0.84	ND	0.17	
622-96-8	4-Ethyltoluene	1.2	0.84	0.24	0.17	
108-67-8	1,3,5-Trimethylbenzene	1.2	0.84	0.24	0.17	
95-63-6	1,2,4-Trimethylbenzene	4.1	0.84	0.84	0.17	
100-44-7	Benzyl Chloride	ND	0.17	ND	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.17	ND	0.028	
106-46-7	1,4-Dichlorobenzene	ND	0.17	ND	0.028	
95-50-1	1,2-Dichlorobenzene	ND	0.17	ND	0.028	
5989-27-5	d-Limonene	19	0.84	3.5	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.84	ND	0.086	
120-82-1	1,2,4-Trichlorobenzene	ND	0.84	ND	0.11	
91-20-3	Naphthalene	1.7	0.84	0.32	0.16	
87-68-3	Hexachlorobutadiene	ND	0.84	ND	0.078	

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: _____

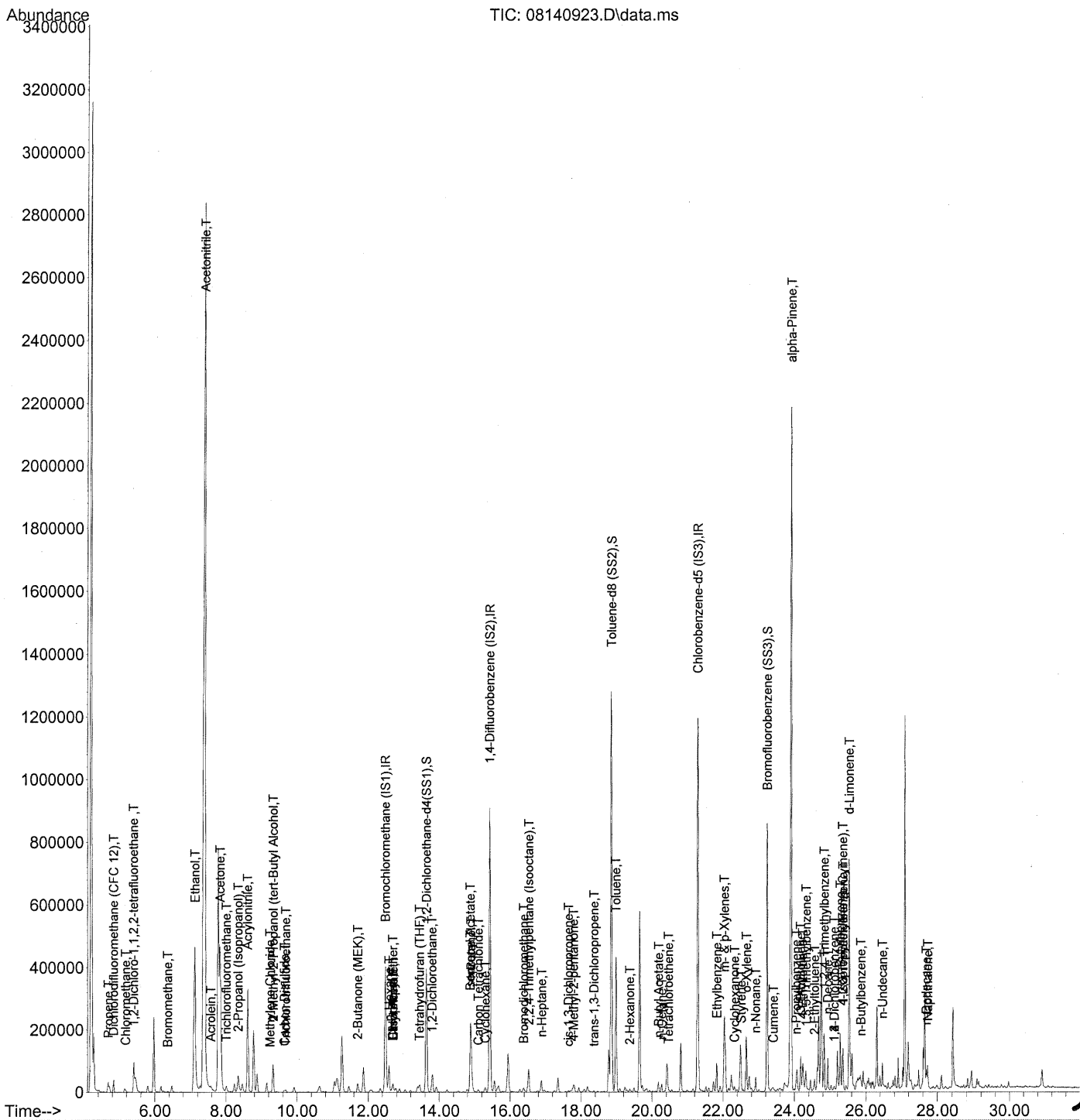
Date: _____

8/24/09

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 19 16:29:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217 ✓ ✓
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 19 16:29:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	203540	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1022006	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	497292	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	410042	23.178	ng	-0.03
Spiked Amount	25.000		Recovery	=	92.72%	✓
57) Toluene-d8 (SS2)	18.85	98	1097508	25.258	ng	-0.01
Spiked Amount	25.000		Recovery	=	101.04%	✓
73) Bromofluorobenzene (SS3)	23.24	174	272225	23.757	ng	0.00
Spiked Amount	25.000		Recovery	=	95.04%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	14751	1.056 ng	# M	82
3) Dichlorodifluoromethan...	4.84	85	39240	1.719 ng		99
4) Chloromethane	5.17	50	8717	0.568 ng		97
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	503	0.054 ng	#	44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	249	N.D.		
8) Bromomethane	6.35	94	2653	0.296 ng		96
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.12	45	984057	111.149 ng		100
11) Acetonitrile	7.40	41	5264883	203.055 ng	E	99
12) Acrolein	7.57	56	14983	2.223 ng		97
13) Acetone	7.83	58	282900	33.866 ng		94
14) Trichlorofluoromethane	8.01	101	17398	0.843 ng		99
15) 2-Propanol (Isopropanol)	8.34	45	111997	3.412 ng		100
16) Acrylonitrile	8.61	53	5498	0.364 ng	#	35
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.33	59	3256	0.112 ng	#	1
19) Methylene Chloride	9.24	84	1248	0.111 ng	#	75
20) 3-Chloro-1-propene (Al...	9.41	41	501	N.D.		
21) Trichlorotrifluoroethane	9.67	151	2957	0.394 ng		100
22) Carbon Disulfide	9.64	76	15333	0.388 ng		91
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. d		
27) 2-Butanone (MEK)	11.70	72	12568	1.666 ng		94
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	858	0.085 ng	#	1
30) Ethyl Acetate	12.70	61	3849	0.980 ng		98
31) n-Hexane	12.58	57	53360	2.655 ng		100

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 19 16:29:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	8774	0.496 ng		99
34) Tetrahydrofuran (THF)	13.44	72	5391	0.671 ng	#	86
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	2974	0.184 ng		88
38) 1,1,1-Trichloroethane	14.17	97	95	N.D.		
39) Isopropyl Acetate	14.87	61	571	0.075 ng	#	1
40) 1-Butanol	14.89	56	146136	11.017 ng		82
41) Benzene	14.87	78	101362	2.256 ng		99
42) Carbon Tetrachloride	15.10	117	4832	0.337 ng		95
43) Cyclohexane	15.29	84	8226	0.500 ng		97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	15.91	63	284	N.D.		
46) Bromodichloromethane	16.38	83	3468	0.234 ng	#	53
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	83706	1.582 ng		96
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.89	71	10720	0.889 ng		99
52) cis-1,3-Dichloropropene	17.65	75	4040	0.216 ng		96
53) 4-Methyl-2-pentanone	17.79	58	4155	0.385 ng		97
54) trans-1,3-Dichloropropene	18.36	75	4044	0.227 ng		93
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	371606	8.702 ng		100
59) 2-Hexanone	19.37	43	8933	0.315 ng		88
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	29829	0.891 ng		96
63) n-Octane	20.28	57	5096	0.494 ng		99
64) Tetrachloroethene	20.46	166	979	0.099 ng		78
65) Chlorobenzene	21.37	112	227	N.D.		
66) Ethylbenzene	21.82	91	84503	1.731 ng		99
67) m- & p-Xylenes	22.04	91	237843	6.023 ng		99
68) Bromoform	22.15	173	99	N.D.		
69) Styrene	22.51	104	16994	0.595 ng		98
70) o-Xylene	22.65	91	121211	3.061 ng		99
71) n-Nonane	22.91	43	21663	0.823 ng		99
72) 1,1,2,2-Tetrachloroethane	22.65	83	441	N.D.		
74) Cumene	23.41	105	7801	0.156 ng		91
75) alpha-Pinene	23.90	93	1019478	39.766 ng		74
76) n-Propylbenzene	24.05	91	26431	0.420 ng	#	78
77) 3-Ethyltoluene	24.17	105	69573	1.456 ng		98
78) 4-Ethyltoluene	24.23	105	32536	0.703 ng		100
79) 1,3,5-Trimethylbenzene	24.32	105	27093	0.694 ng		99

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 19 16:29:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

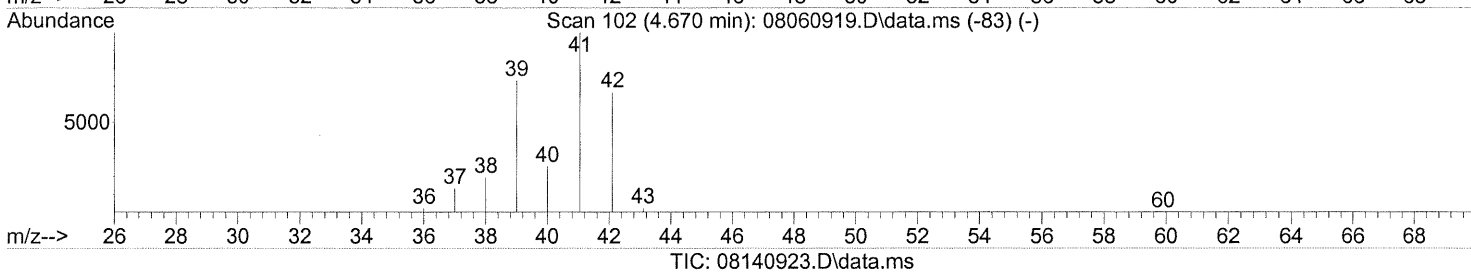
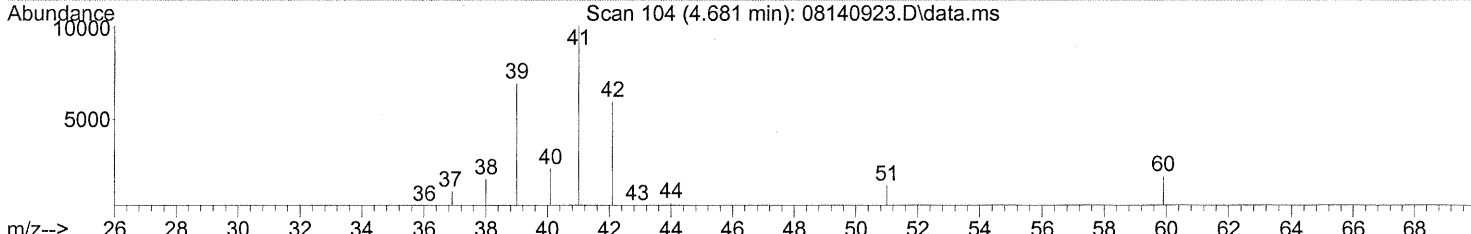
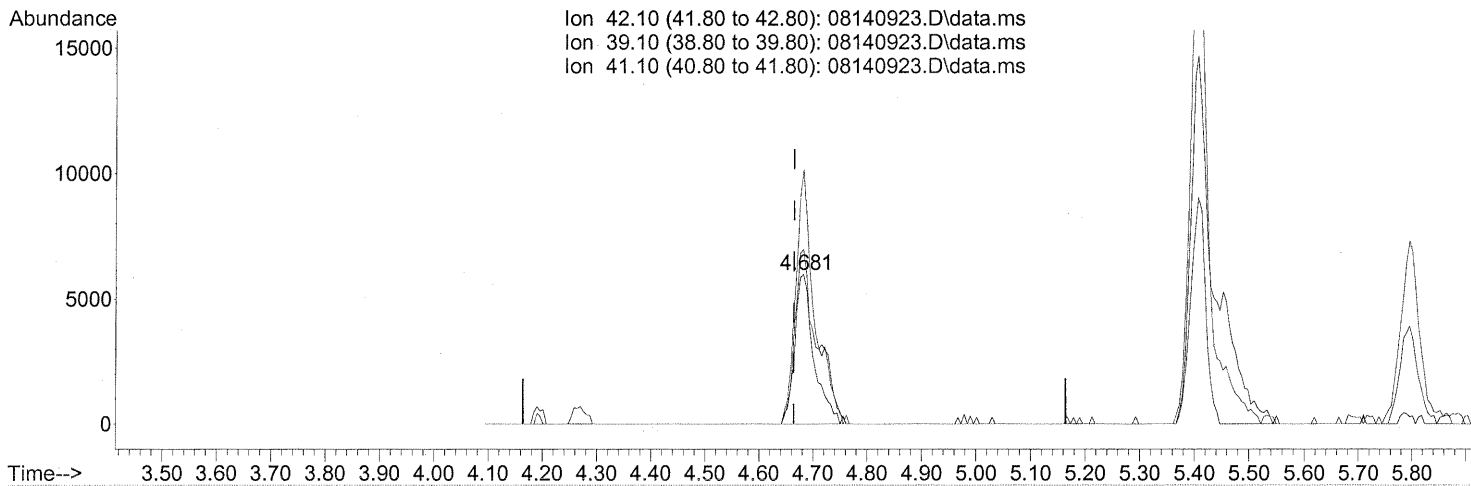
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	750	N.D.		
81) 2-Ethyltoluene	24.56	105	23794	0.494 ng		100
82) 1,2,4-Trimethylbenzene	24.83	105	98823	2.481 ng		89
83) n-Decane	24.93	57	36903	1.425 ng		91
84) Benzyl Chloride	25.02	91	109	N.D.		
85) 1,3-Dichlorobenzene	25.11	146	1128	0.056 ng		81
86) 1,4-Dichlorobenzene	25.11	146	1128	0.052 ng		80
87) sec-Butylbenzene	25.16	105	2674	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	43465	0.906 ng		99
89) 1,2,3-Trimethylbenzene	25.35	105	29449	0.726 ng		96
90) 1,2-Dichlorobenzene	25.11	146	1128	0.059 ng		78
91) d-Limonene	25.53	68	195191	11.523 ng		83
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	27381	0.994 ng	#	73
94) 1,2,4-Trichlorobenzene	27.58	180	132	N.D.		
95) Naphthalene	27.73	128	54666	1.010 ng		98
96) n-Dodecane	27.69	57	18335	0.573 ng		93
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	10583	0.598 ng	#	76
99) tert-Butylbenzene	25.27	119	5780	0.150 ng		98
100) n-Butylbenzene	25.86	91	14018	0.316 ng	#	50

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.681min (+0.017) 1.06ng

M

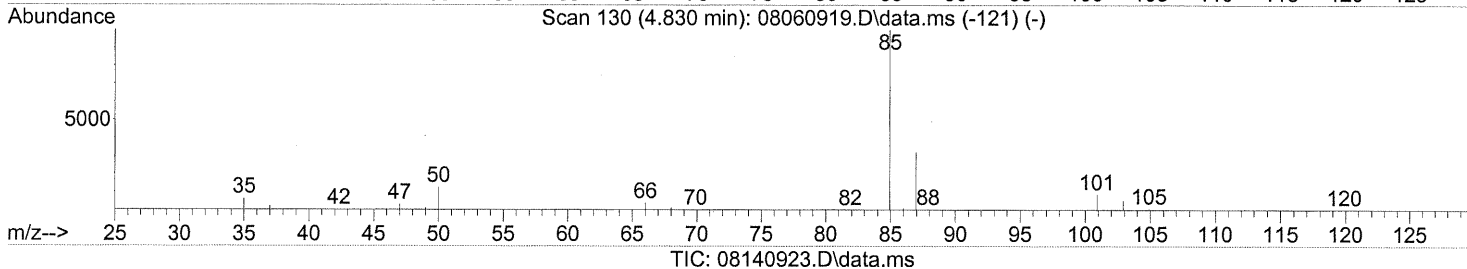
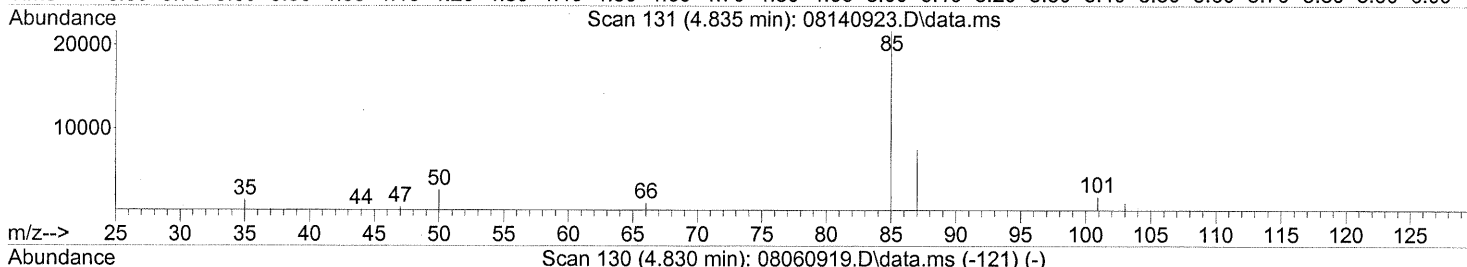
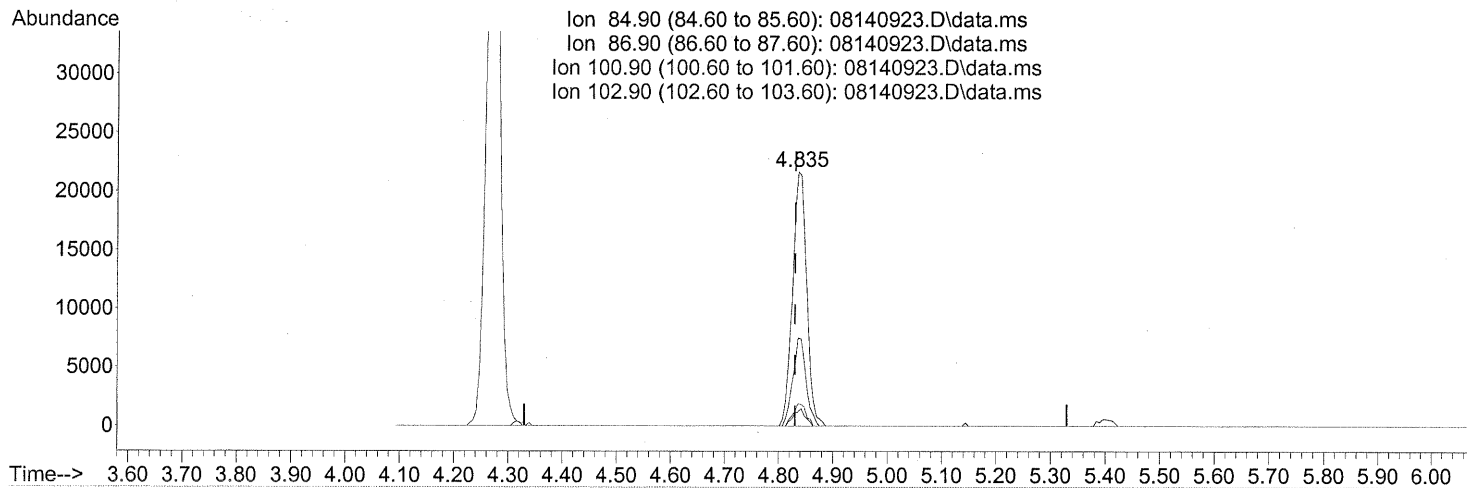
response 14751

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	135.90#
41.10	150.20	168.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140923.D
Acq On : 14 Aug 2009 21:29
Operator : WA
Sample : P0902721-004 (1000mL)
Misc : Env. Health & Engineering 100217
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.835min (+0.006) 1.72ng

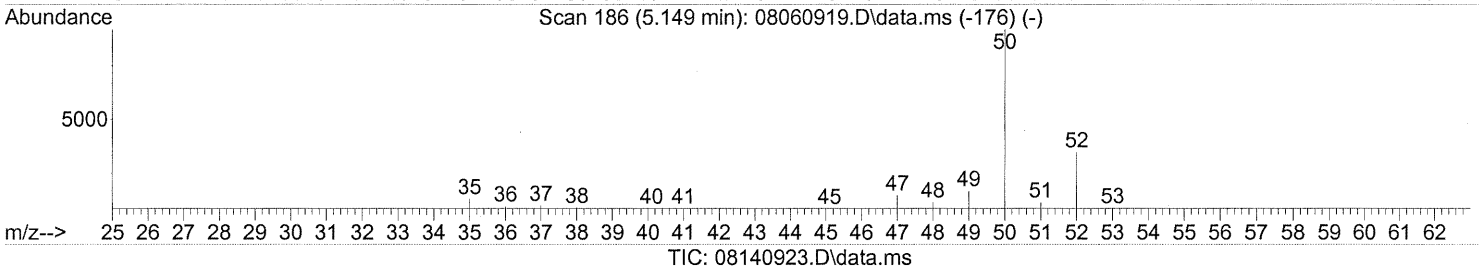
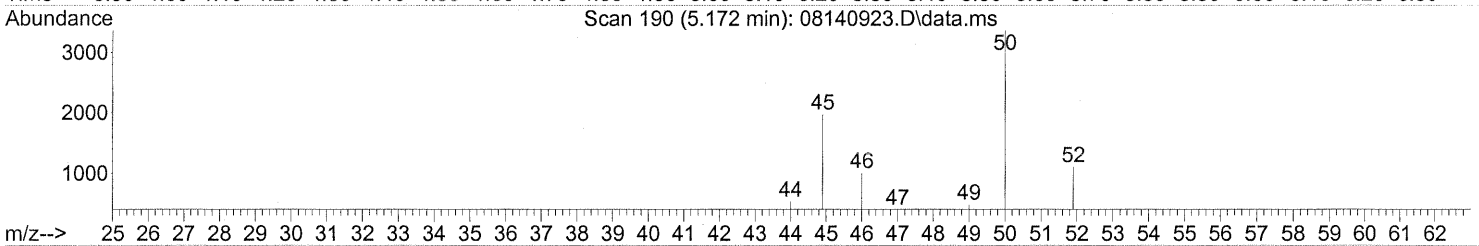
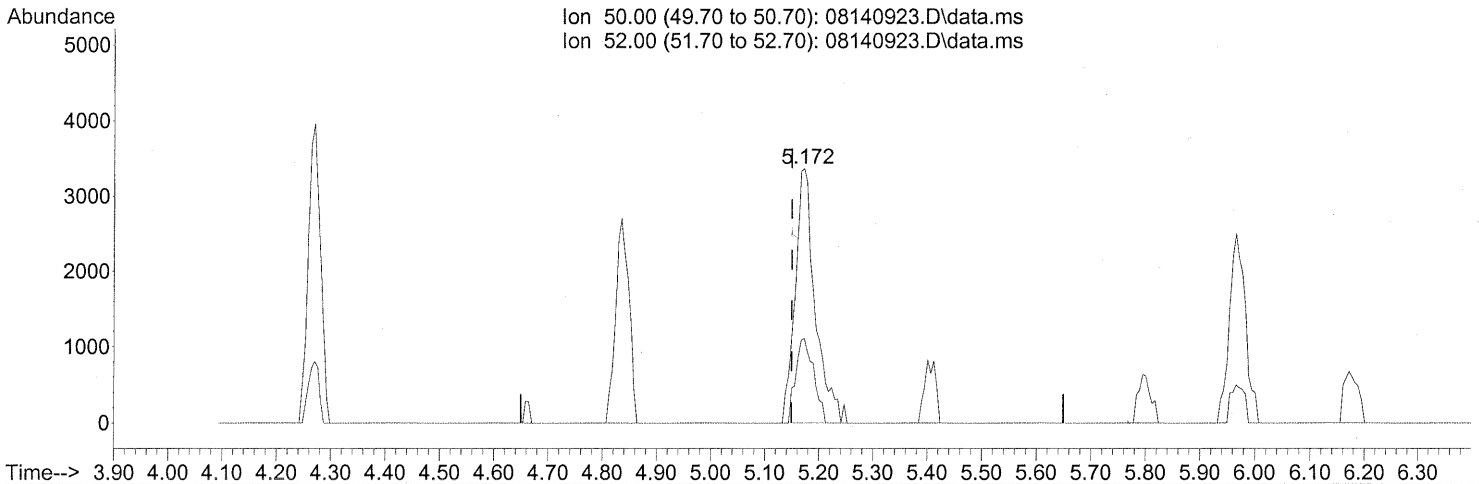
response 39240

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	32.32
100.90	8.80	8.01
102.90	5.20	5.63

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.172min (+0.023) 0.57ng

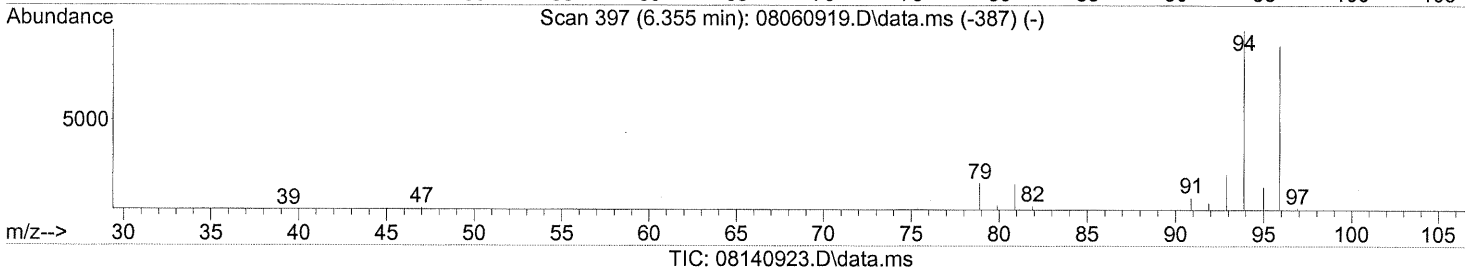
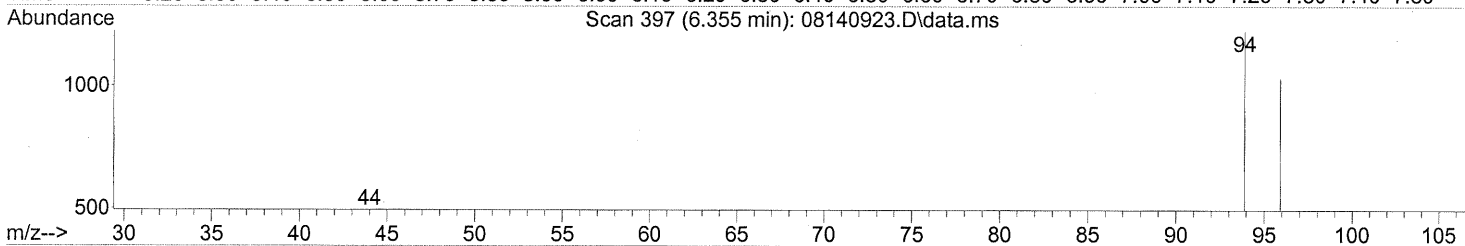
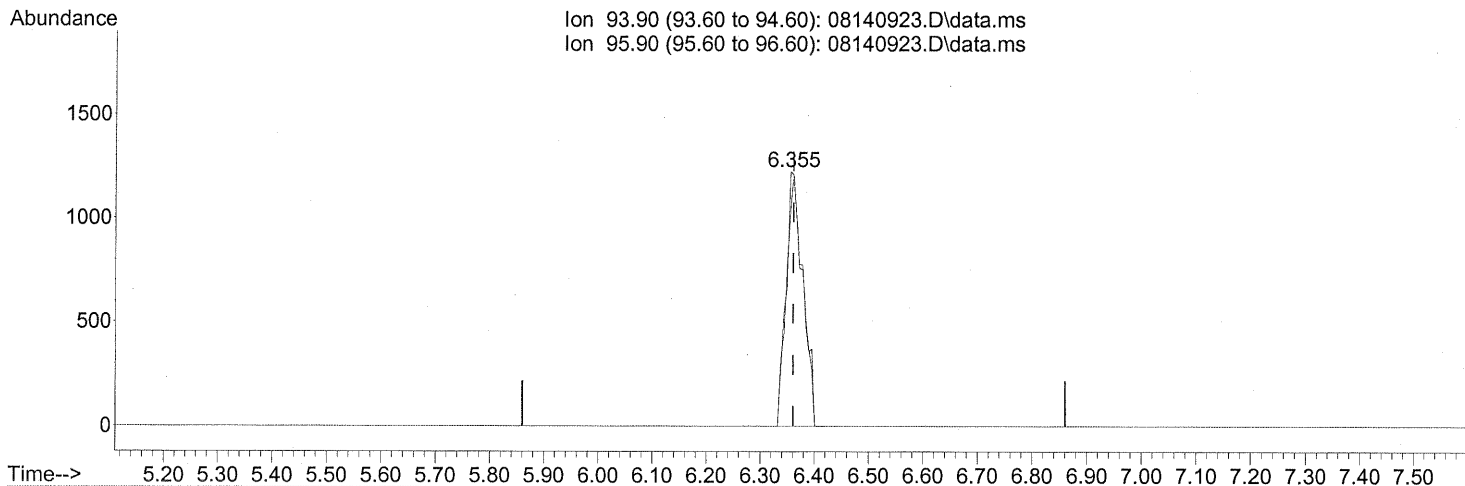
response 8717

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(8) Bromomethane (T)

6.355min (-0.006) 0.30ng

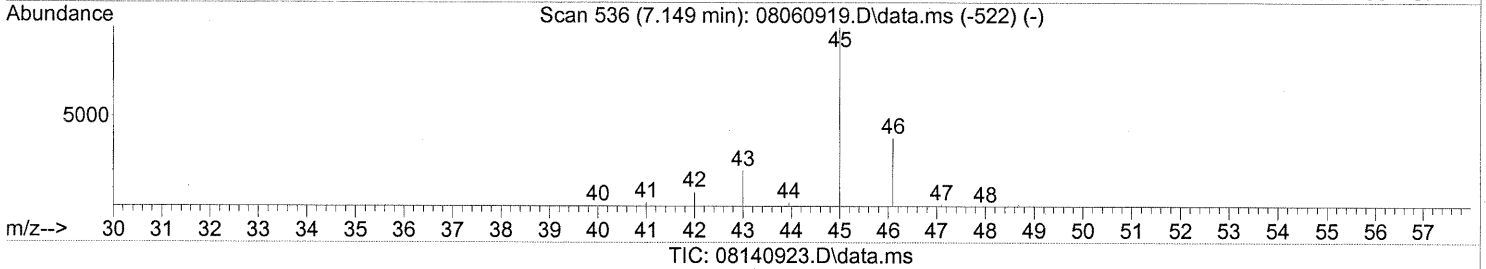
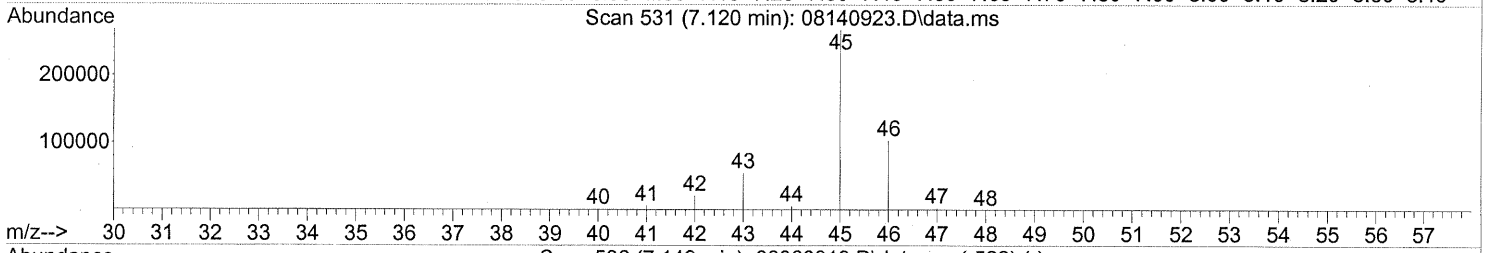
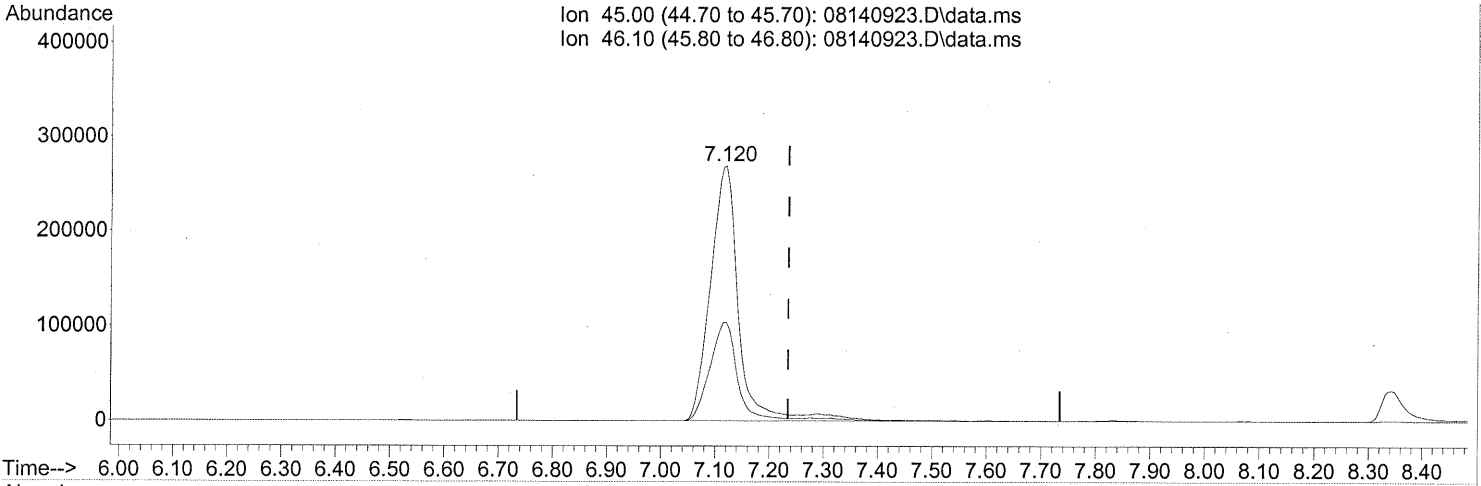
response 2653

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	96.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140923.D
Acq On : 14 Aug 2009 21:29
Operator : WA
Sample : P0902721-004 (1000mL)
Misc : Env. Health & Engineering 100217
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



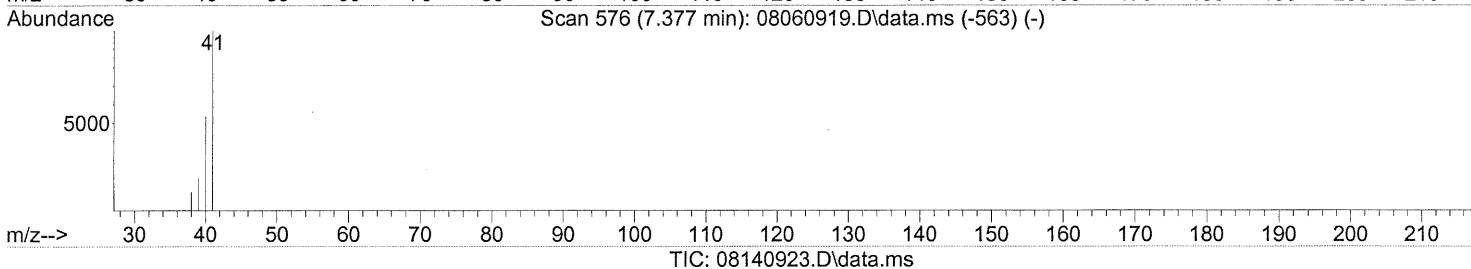
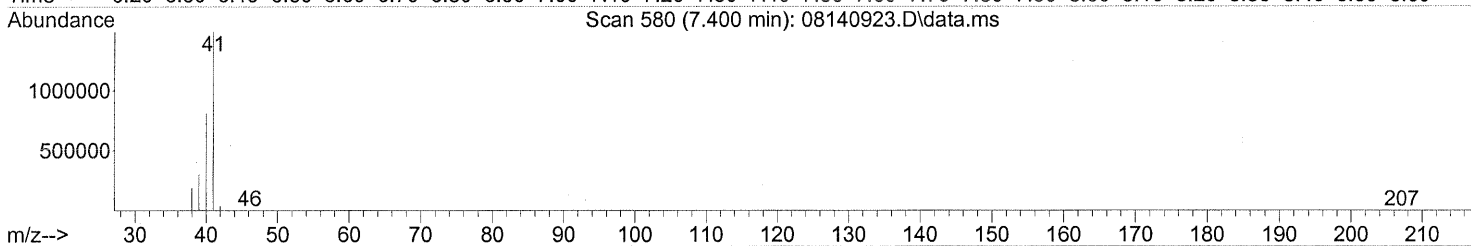
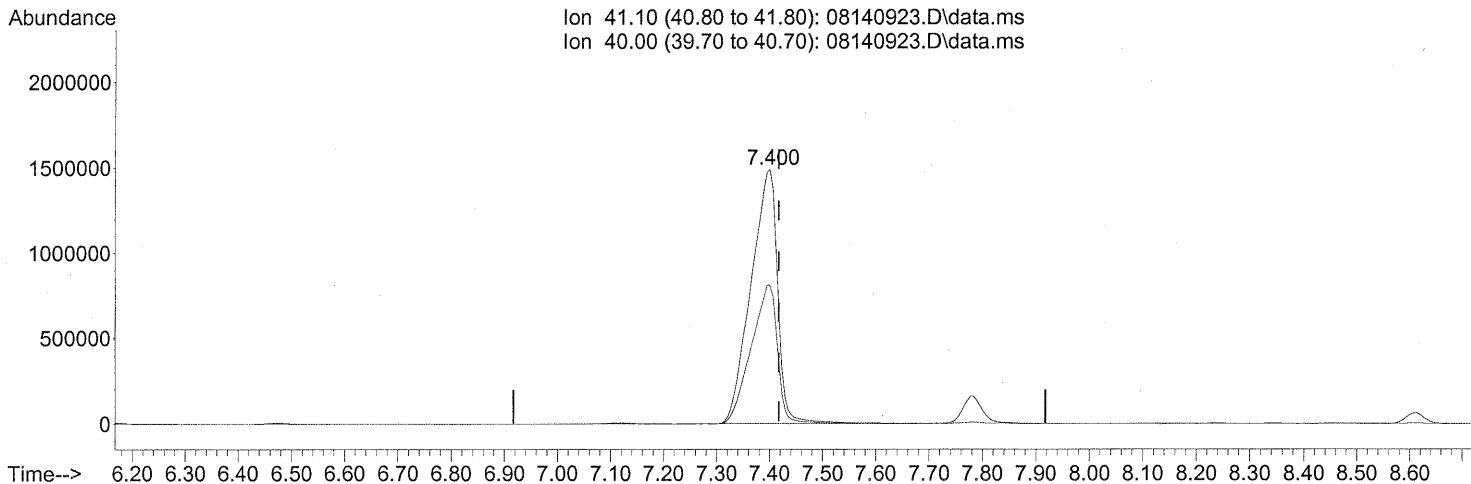
(10) Ethanol (T)
7.120min (-0.114) 111.15ng
response 984057

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 19 16:29:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.400min (-0.017) 203.06ng *E*

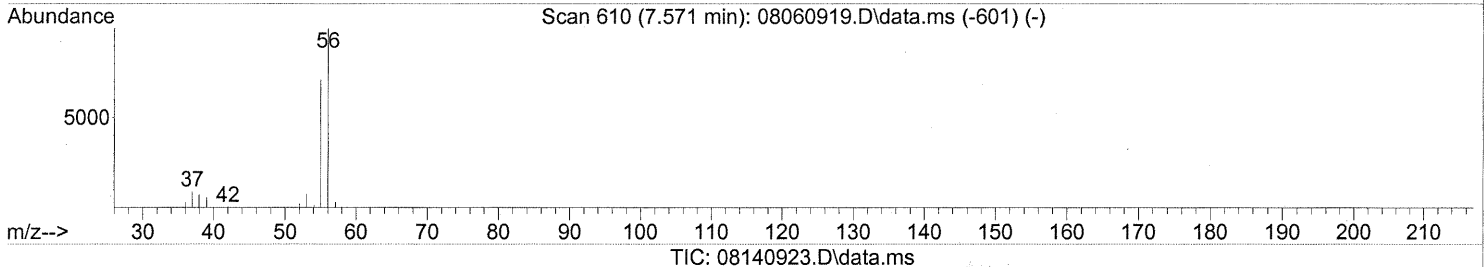
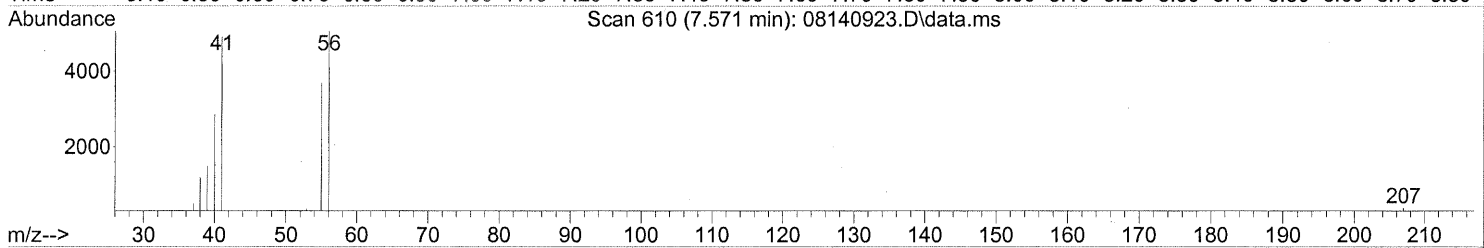
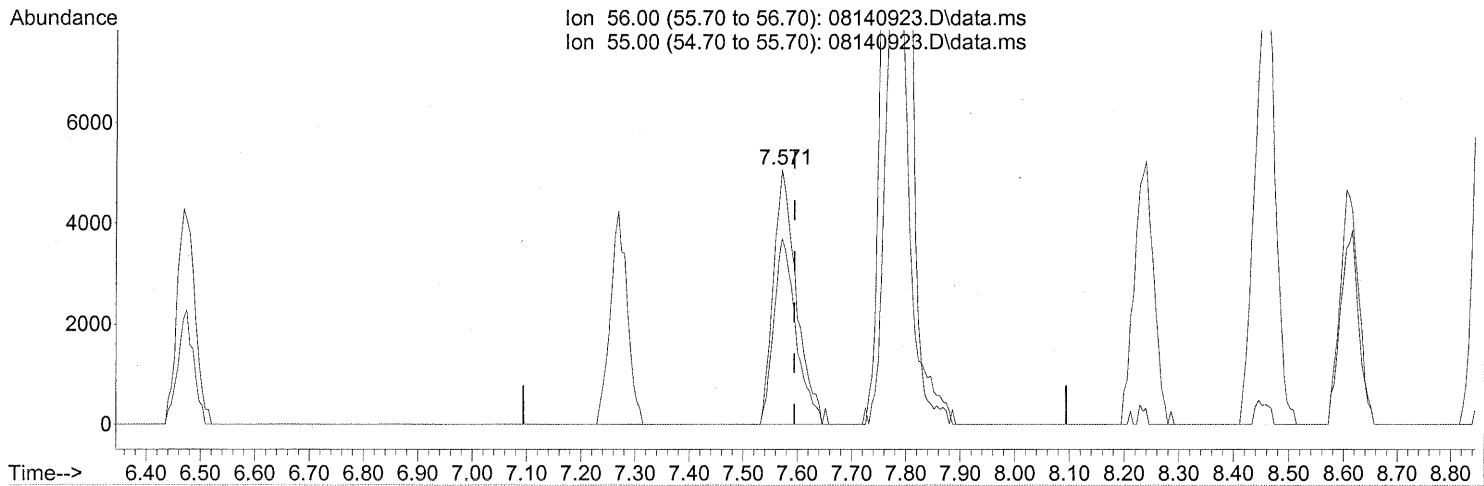
response 5264883

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	54.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.571min (-0.023) 2.22ng

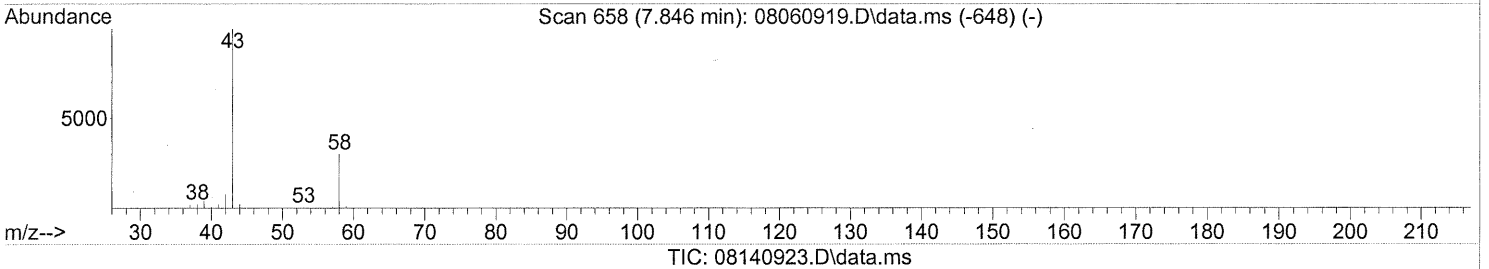
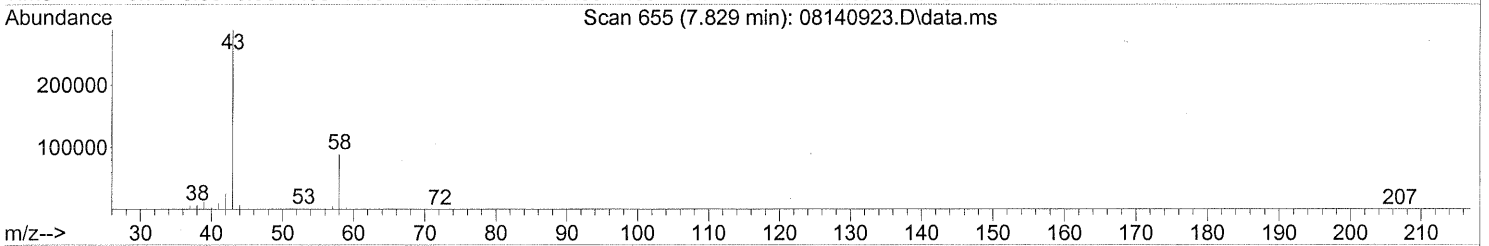
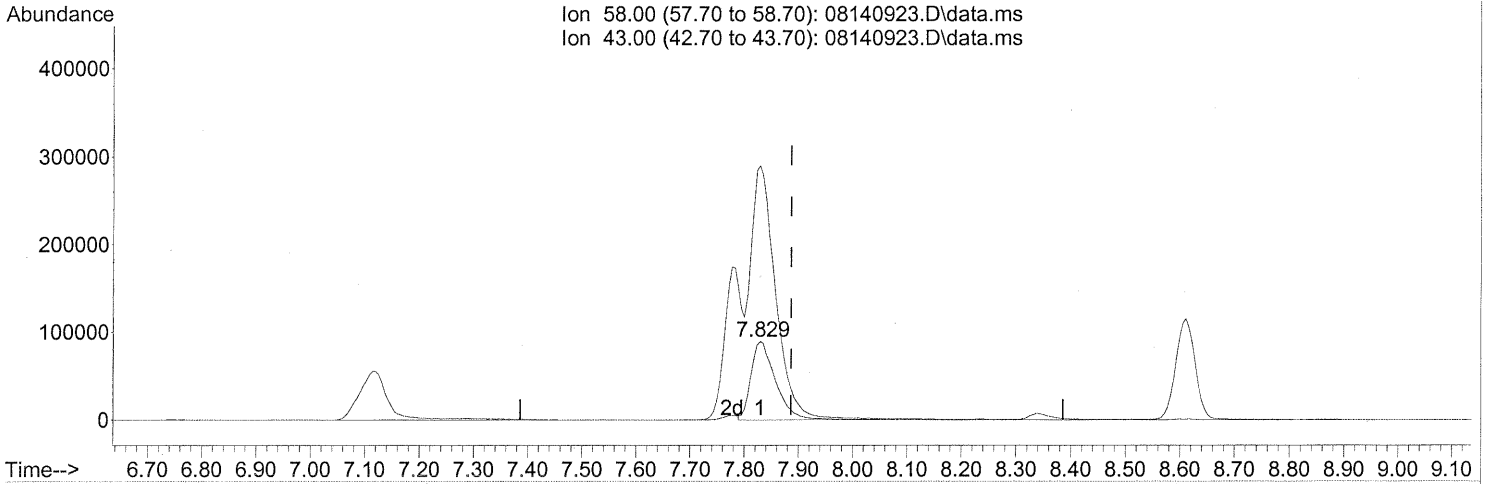
response 14983

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	70.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.829min (-0.057) 33.87ng

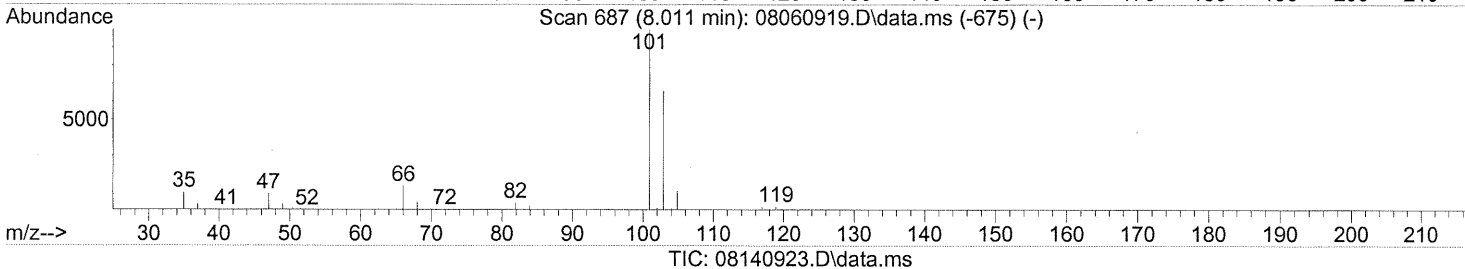
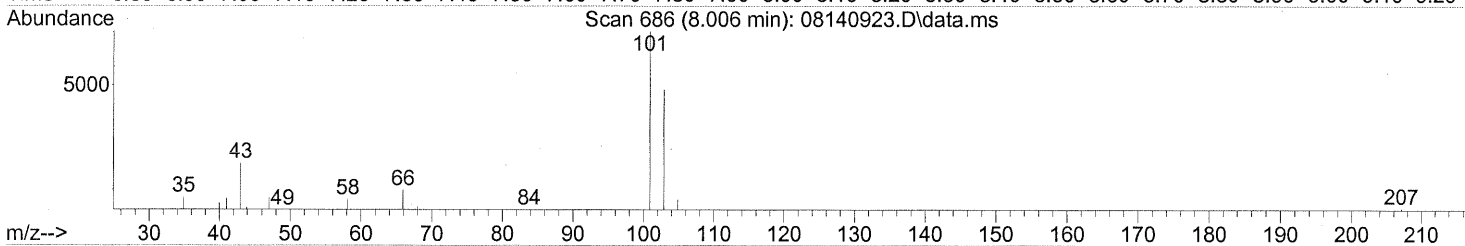
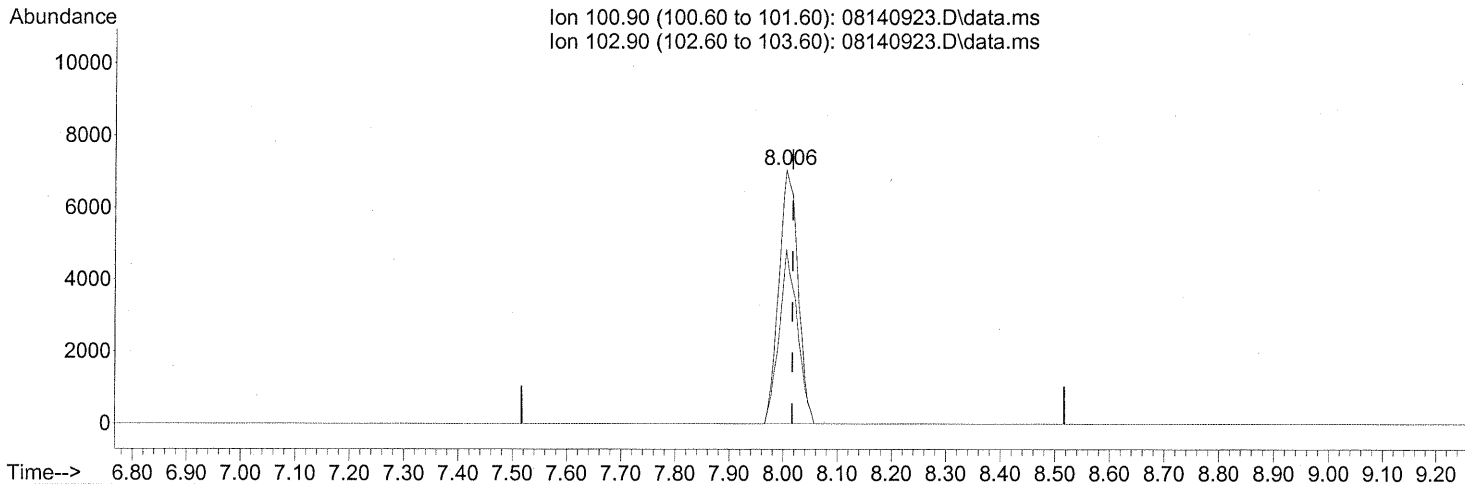
response 282900

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	327.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140923.D
Acq On : 14 Aug 2009 21:29
Operator : WA
Sample : P0902721-004 (1000mL)
Misc : Env. Health & Engineering 100217
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.006min (-0.011) 0.84ng

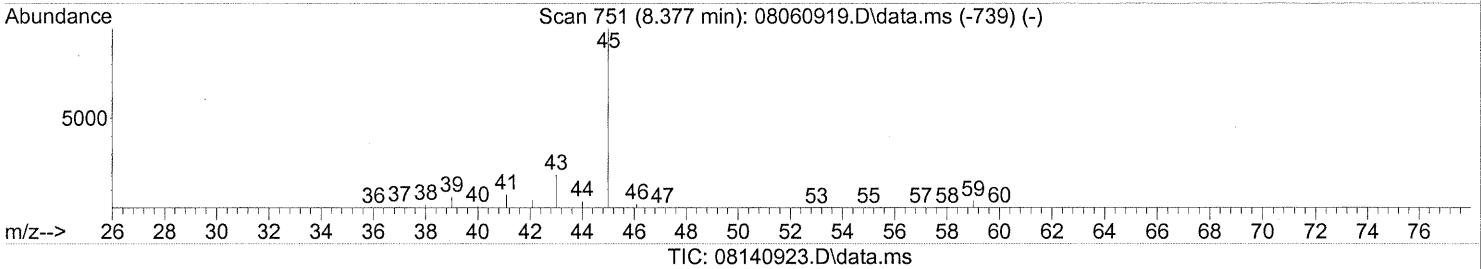
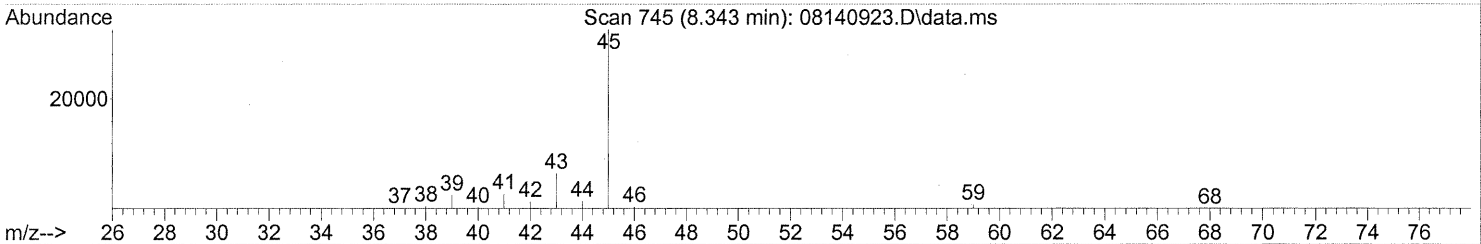
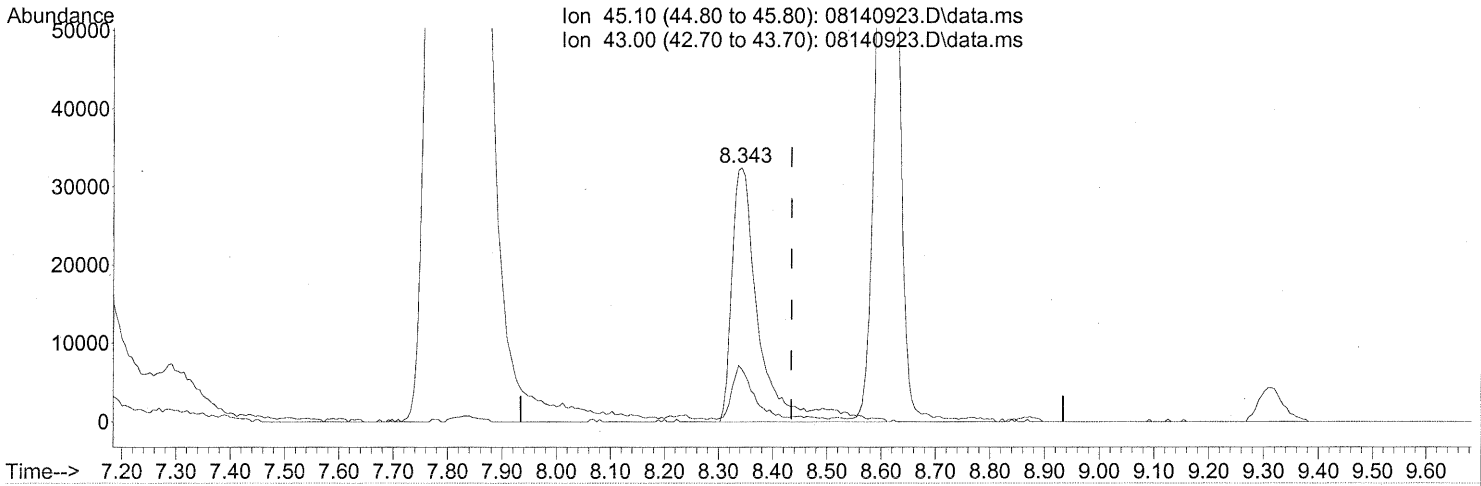
response 17398

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	65.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

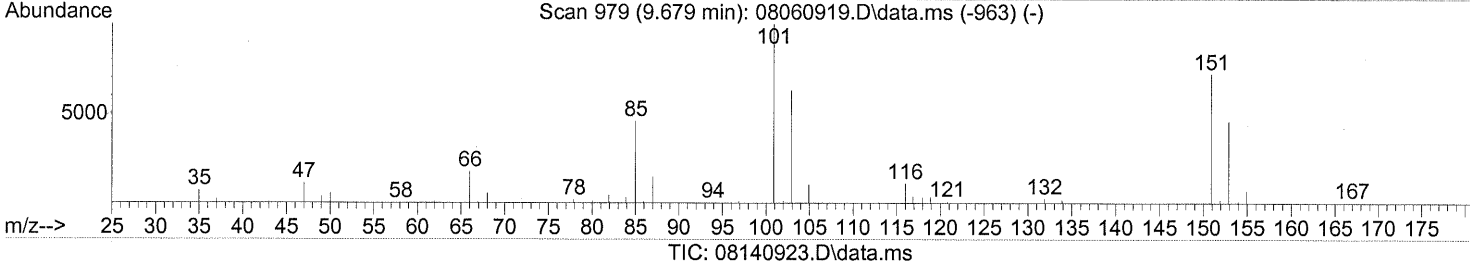
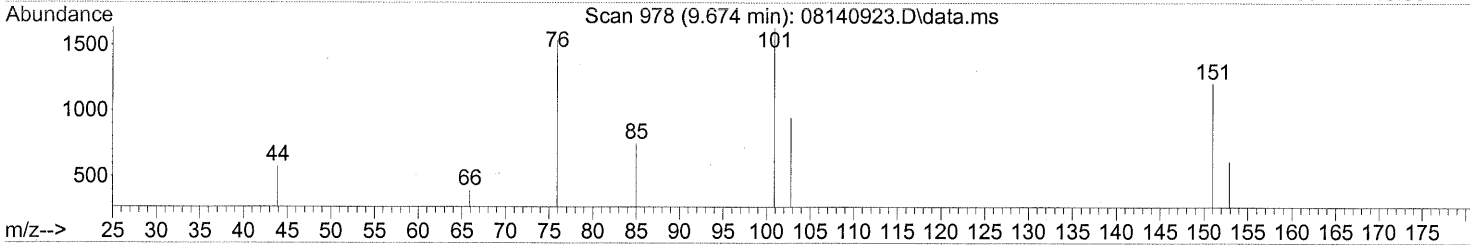
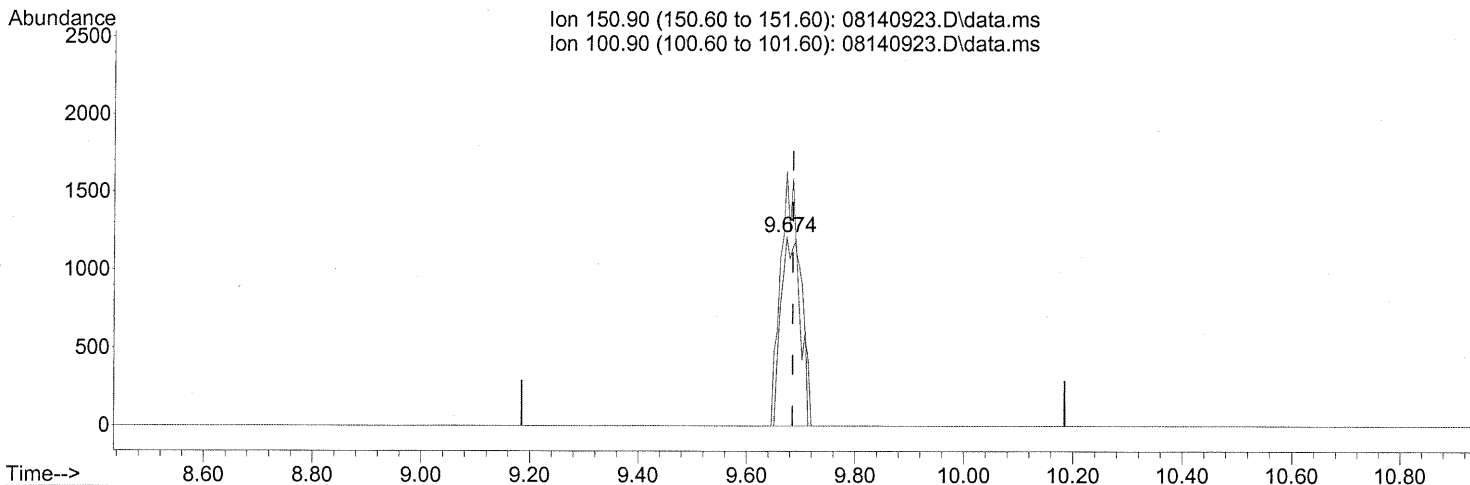
8.343min (-0.091) 3.41ng

response 111997

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.93
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.674min (-0.011) 0.39ng

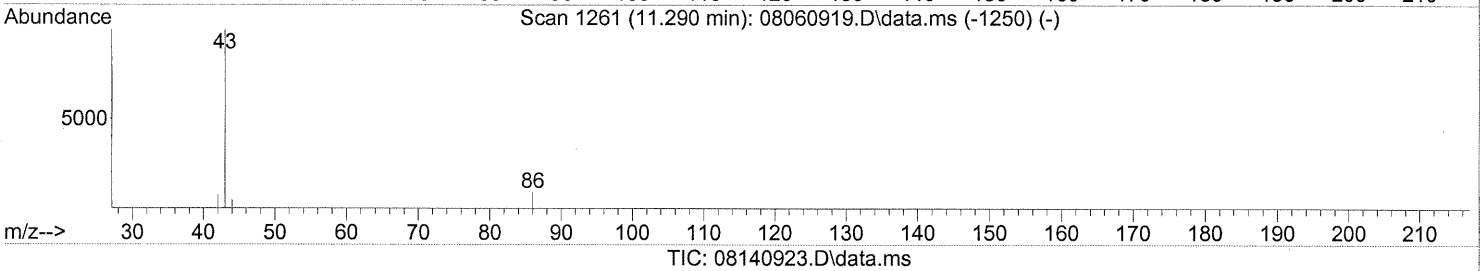
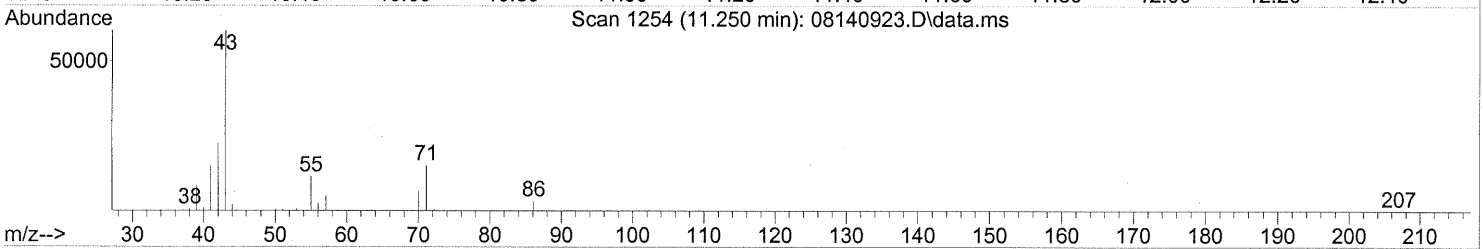
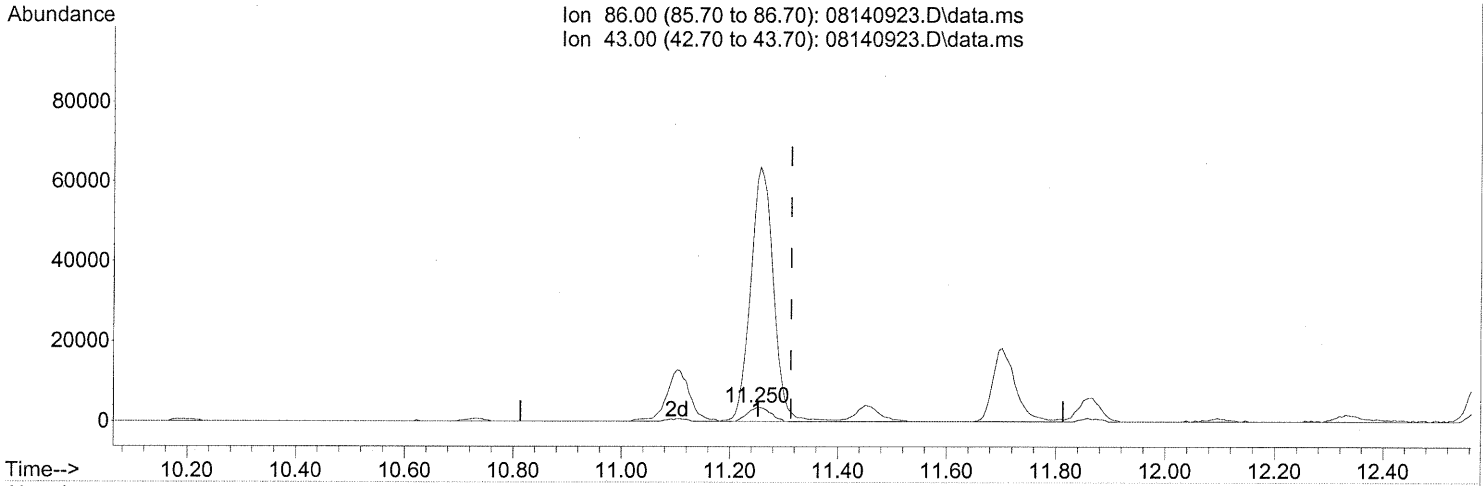
response 2957

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	138.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140923.D
Acq On : 14 Aug 2009 21:29
Operator : WA
Sample : P0902721-004 (1000mL)
Misc : Env. Health & Engineering 100217
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.250min (-0.063) 6.02ng

response 10241

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1825.96#
0.00	0.00	0.00
0.00	0.00	0.00

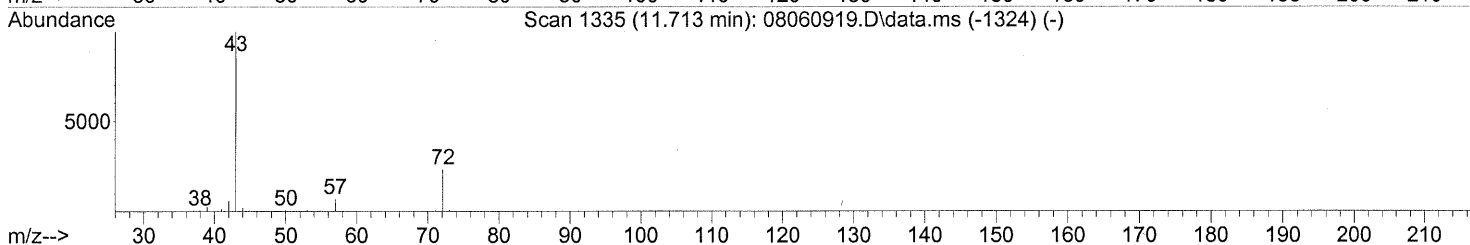
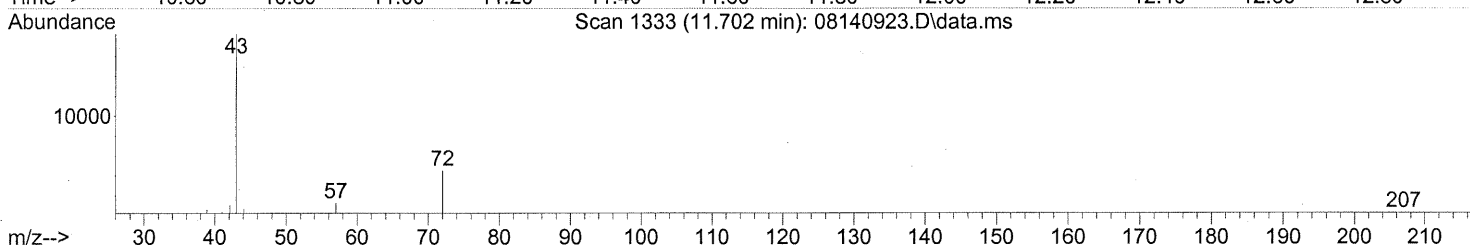
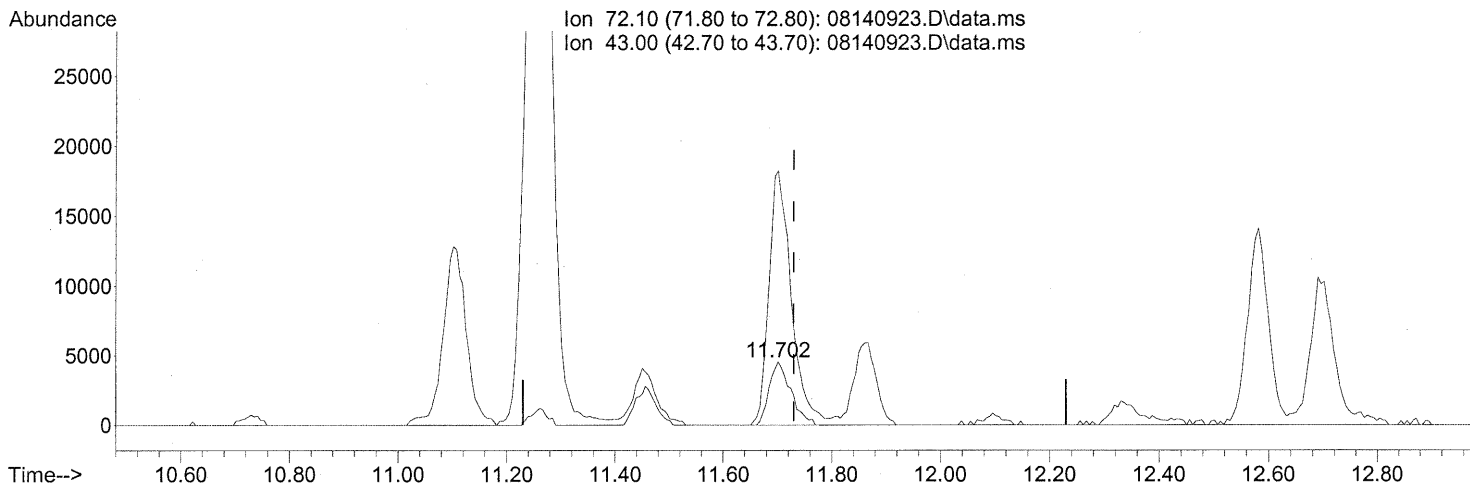
FP *UH* *8/20/09*

em *8/21/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140923.D\data.ms

(27) 2-Butanone (MEK) (T)

11.702min (-0.028) 1.67ng

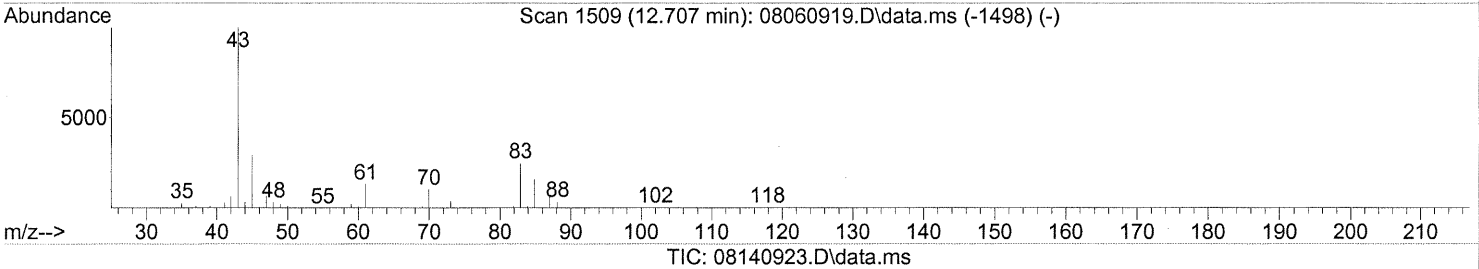
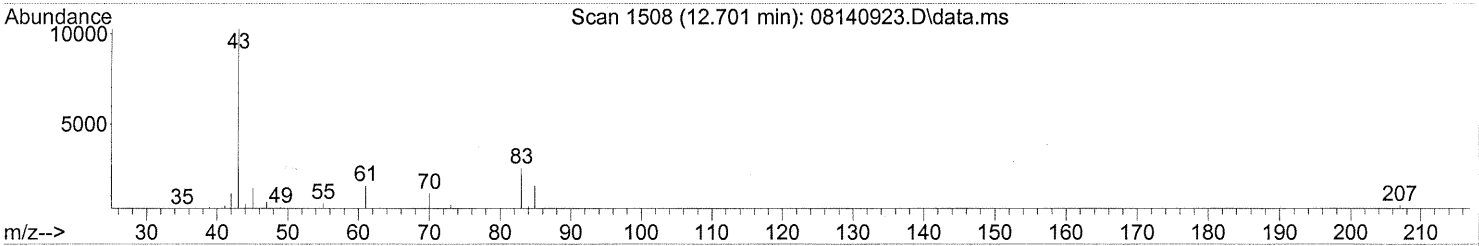
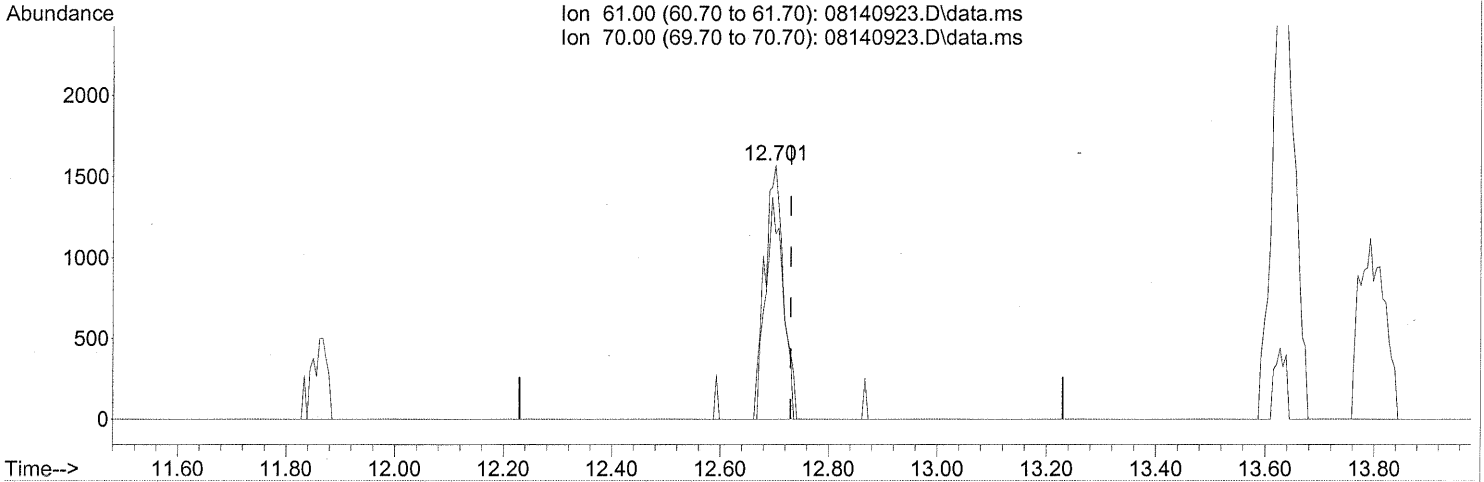
response 12568

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	422.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.701min (-0.028) 0.98ng

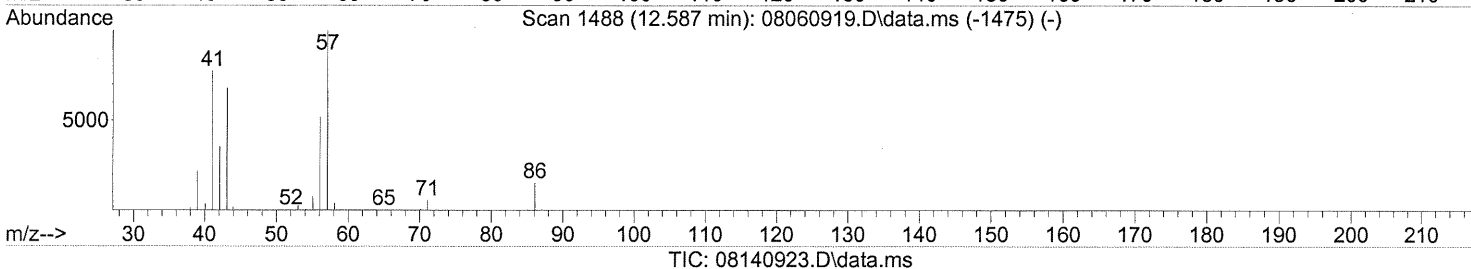
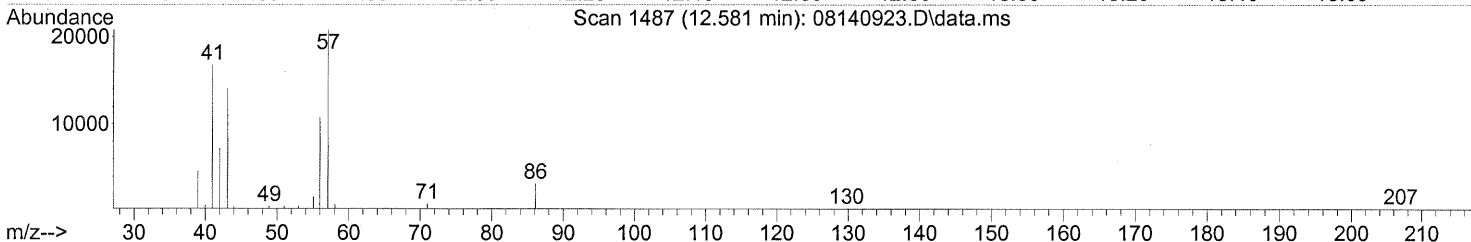
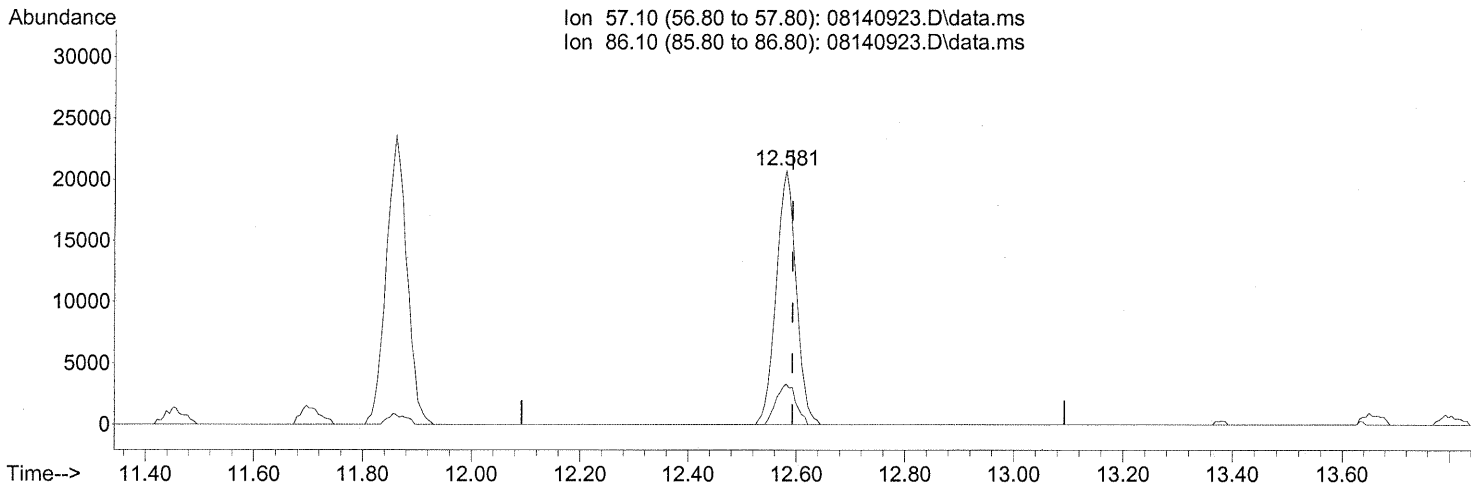
response 3849

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	80.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(31) n-Hexane (T)

12.581min (-0.011) 2.65ng

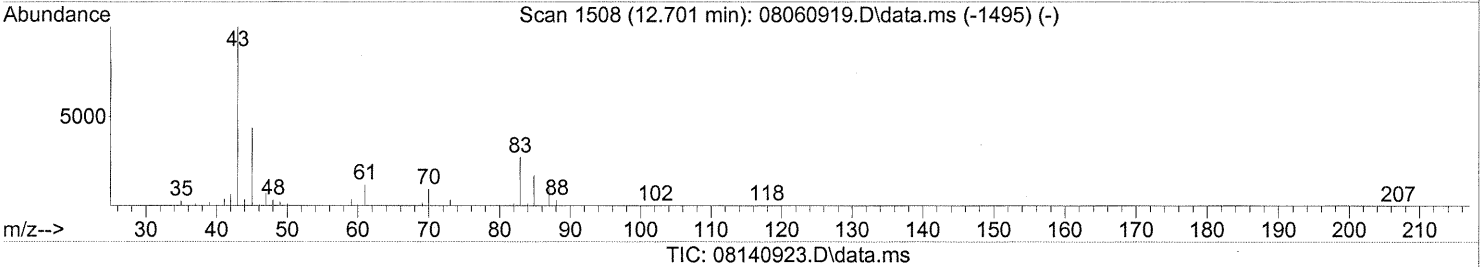
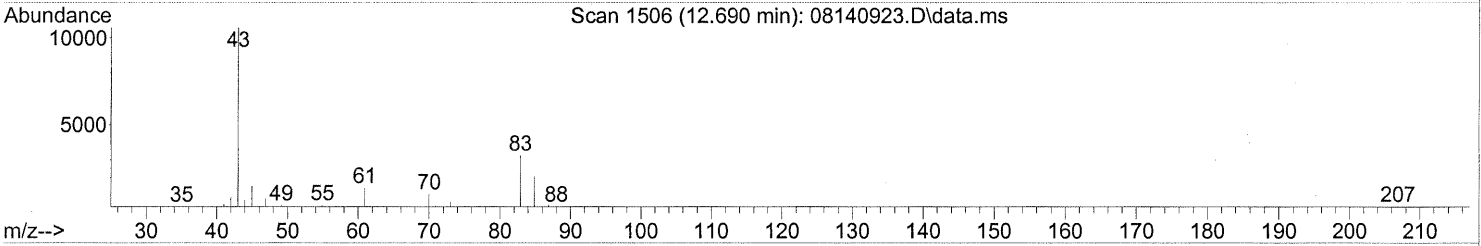
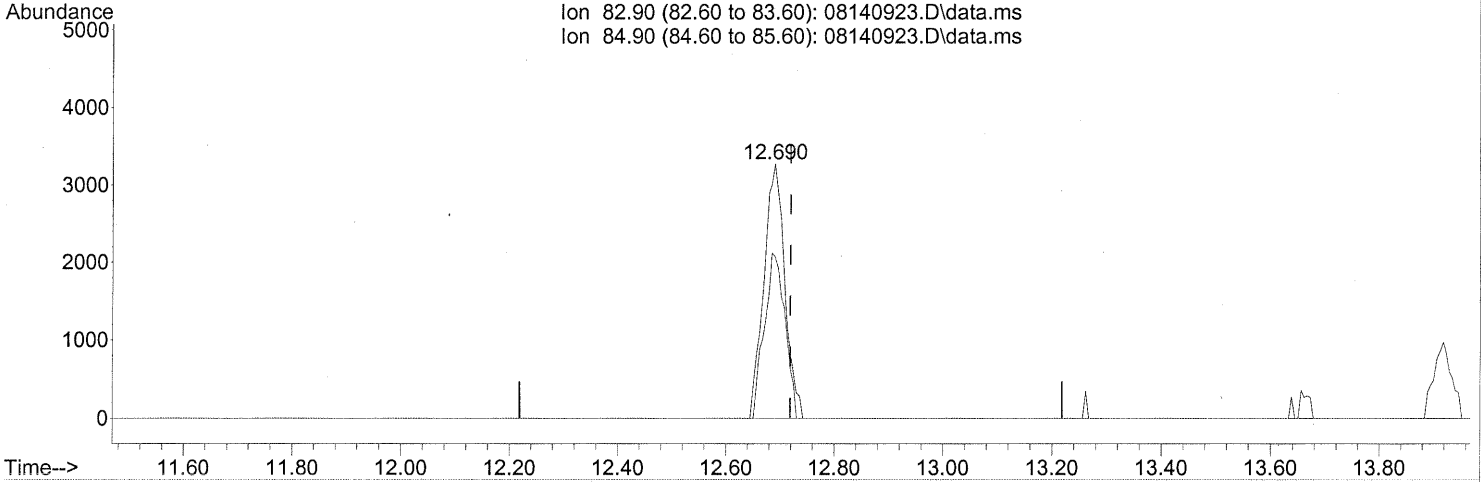
response 53360

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



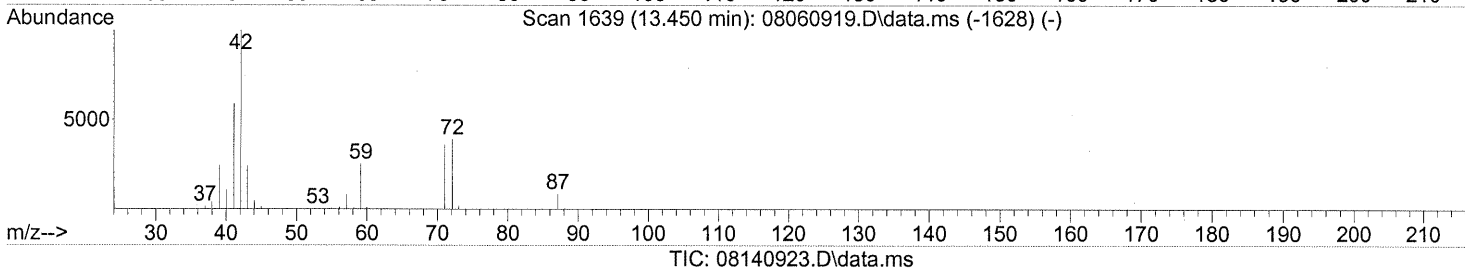
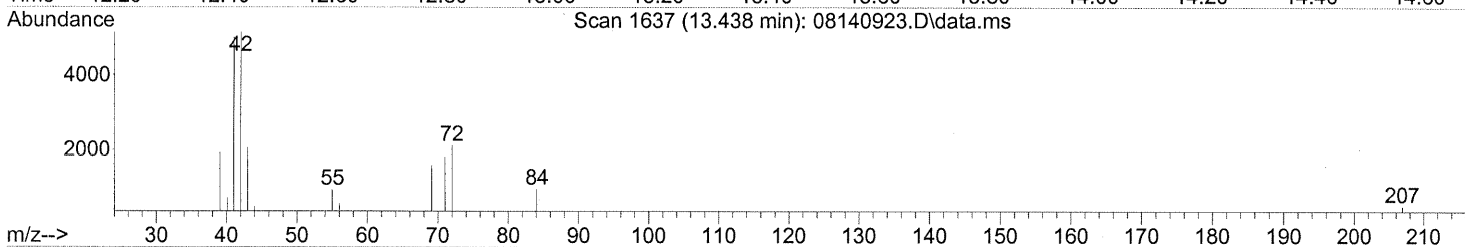
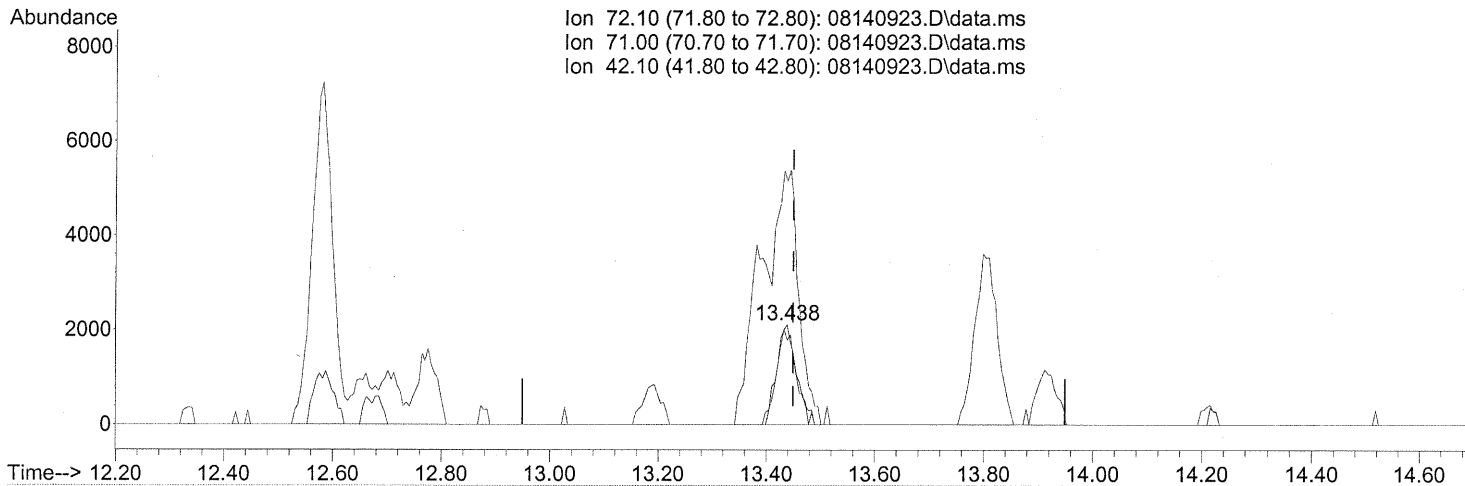
(32) Chloroform (T)
 12.690min (-0.028) 0.50ng
 response 8774

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	63.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.438min (-0.011) 0.67ng

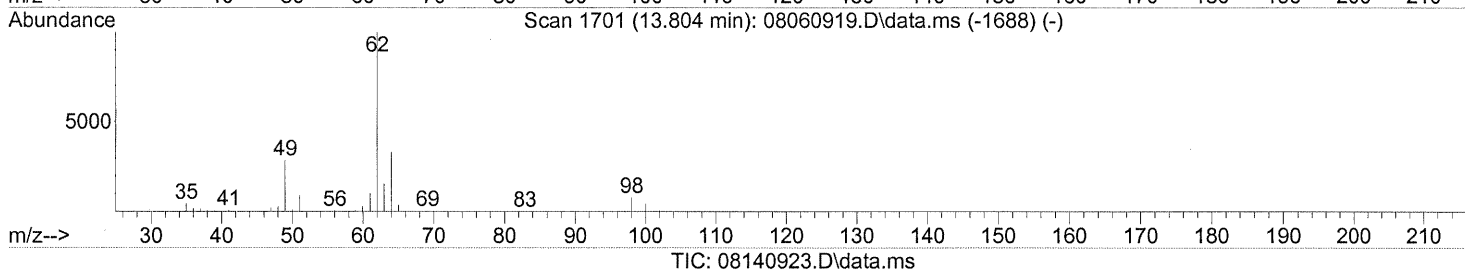
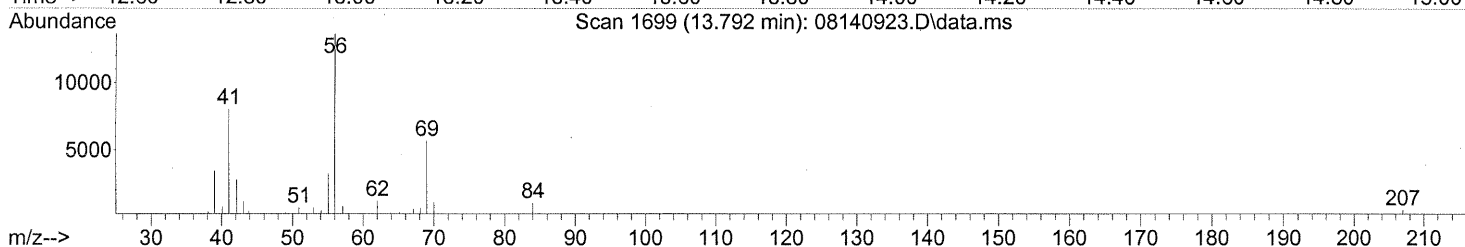
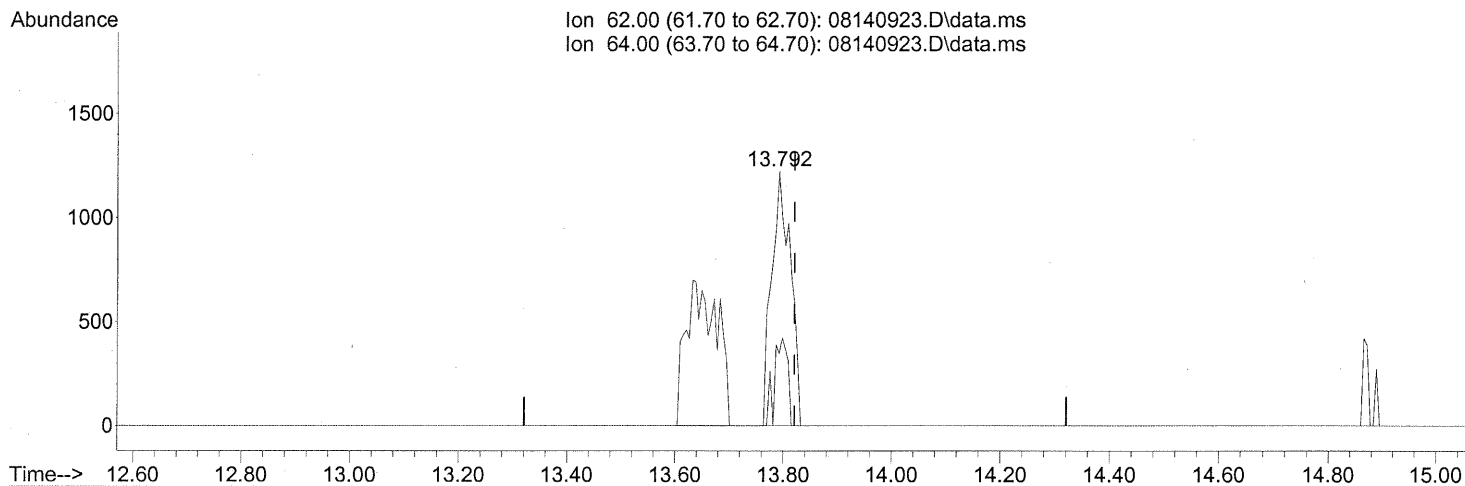
response 5391

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	97.74
42.10	253.40	285.36#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



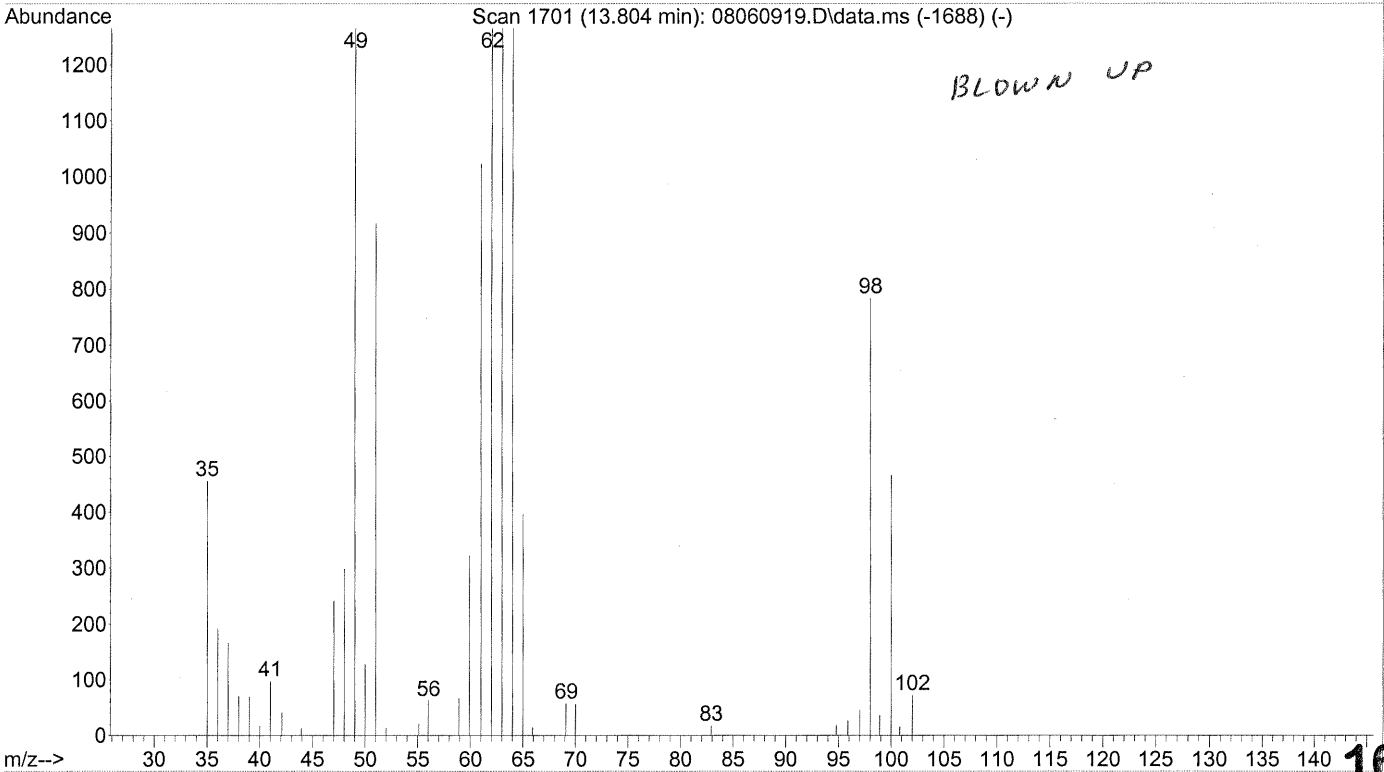
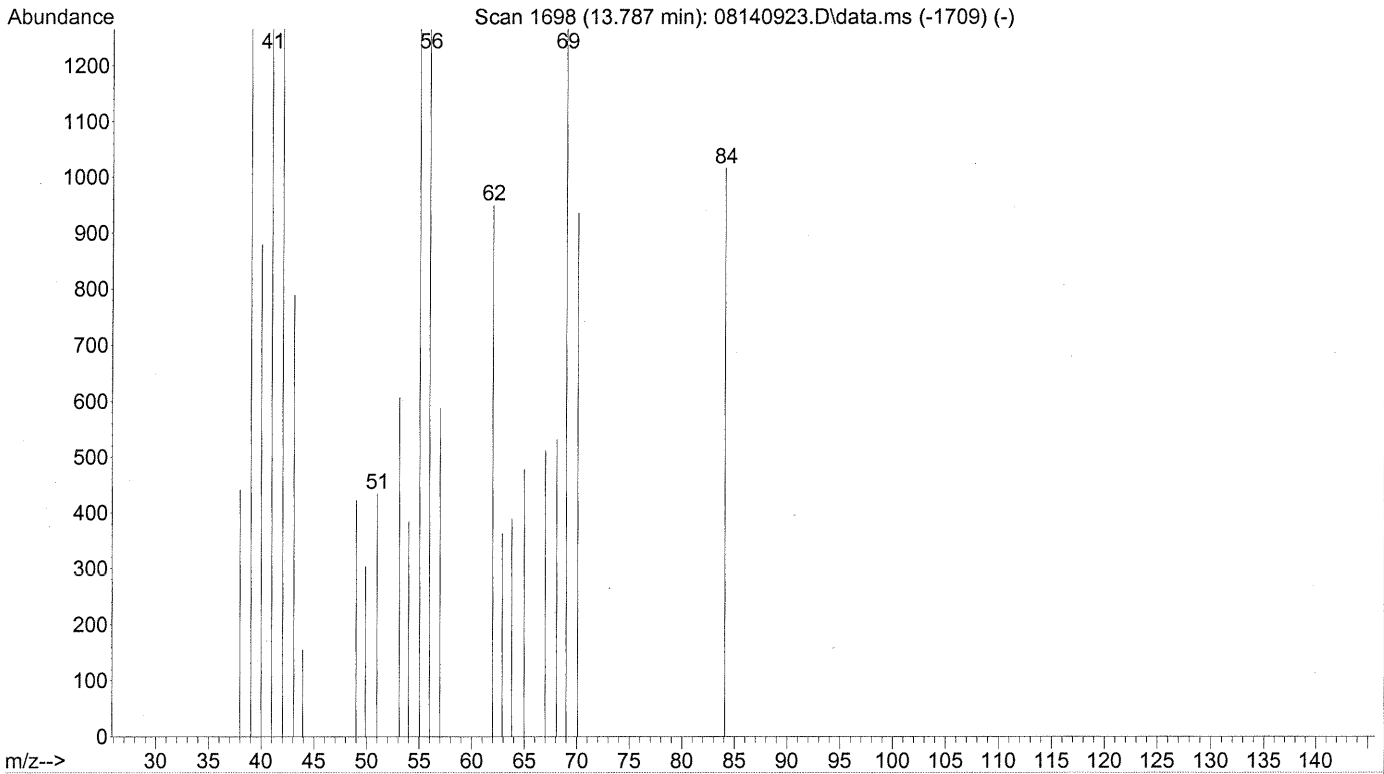
(36) 1,2-Dichloroethane (T)

13.792min (-0.028) 0.18ng

response 2974

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	24.28
0.00	0.00	0.00
0.00	0.00	0.00

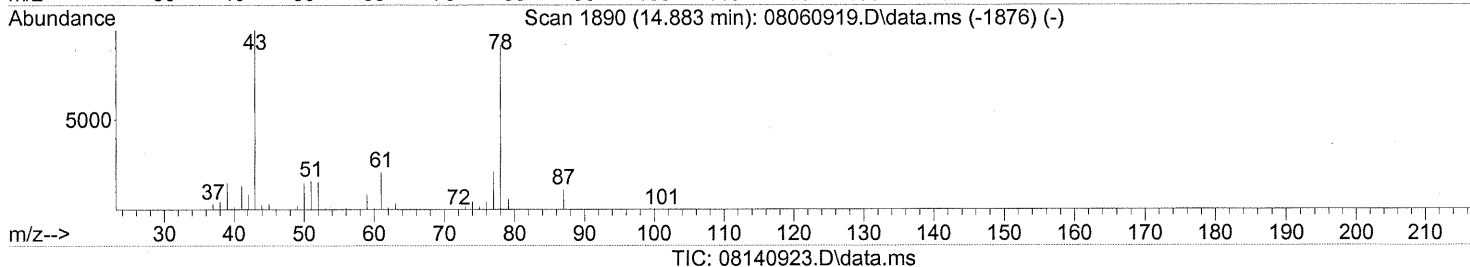
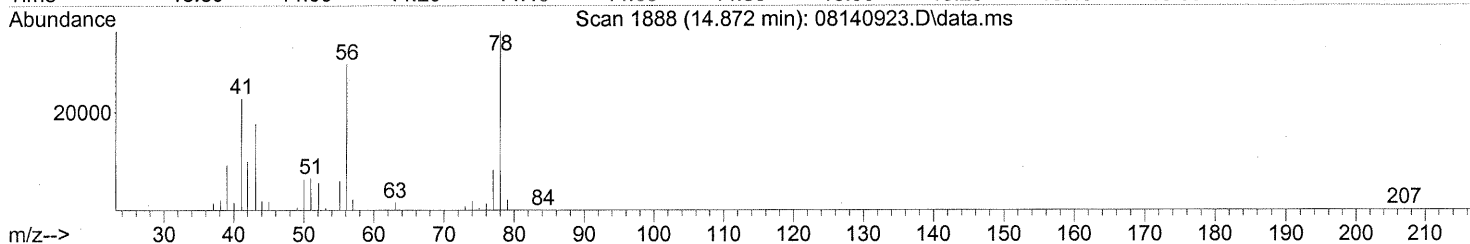
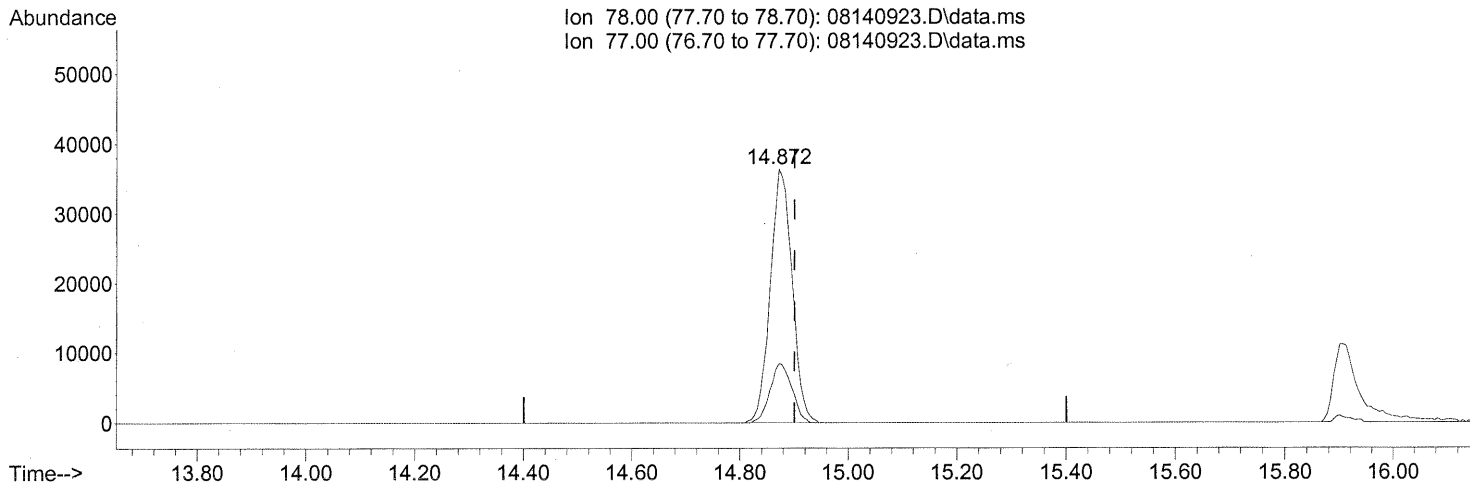
File :J:\MS13\DATA\2009_08\14\08140923.D
Operator : WA
Acquired : 14 Aug 2009 21:29 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0902721-004 (1000mL)
Misc Info : Env. Health & Engineering 100217
Vial Number: 8



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.872min (-0.028) 2.26ng

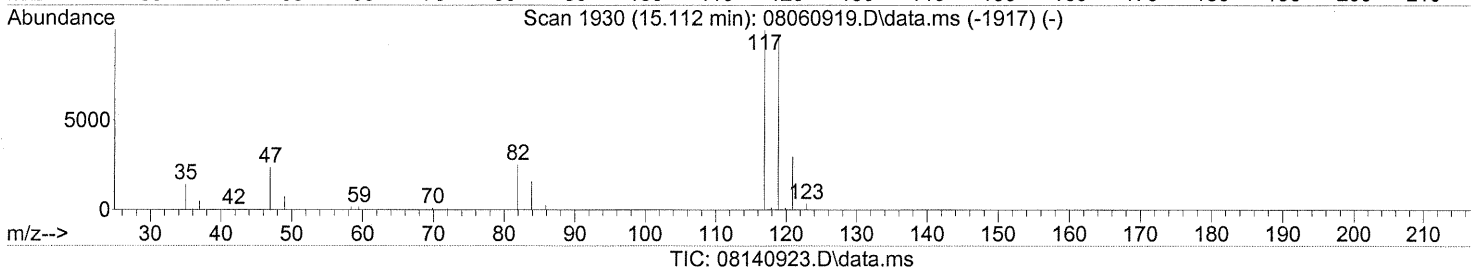
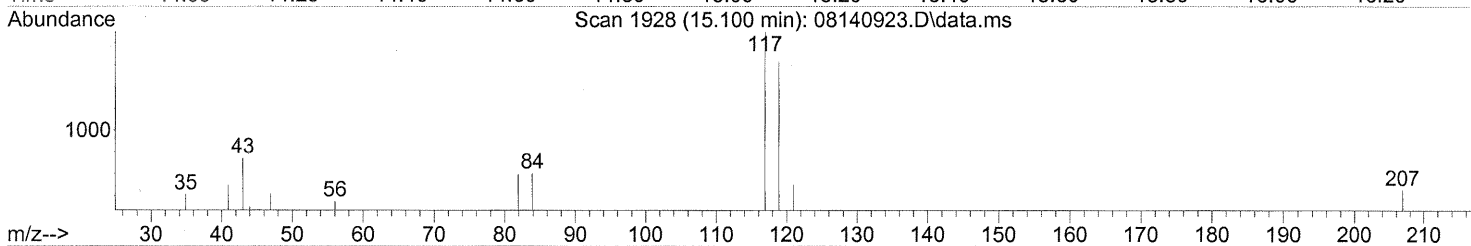
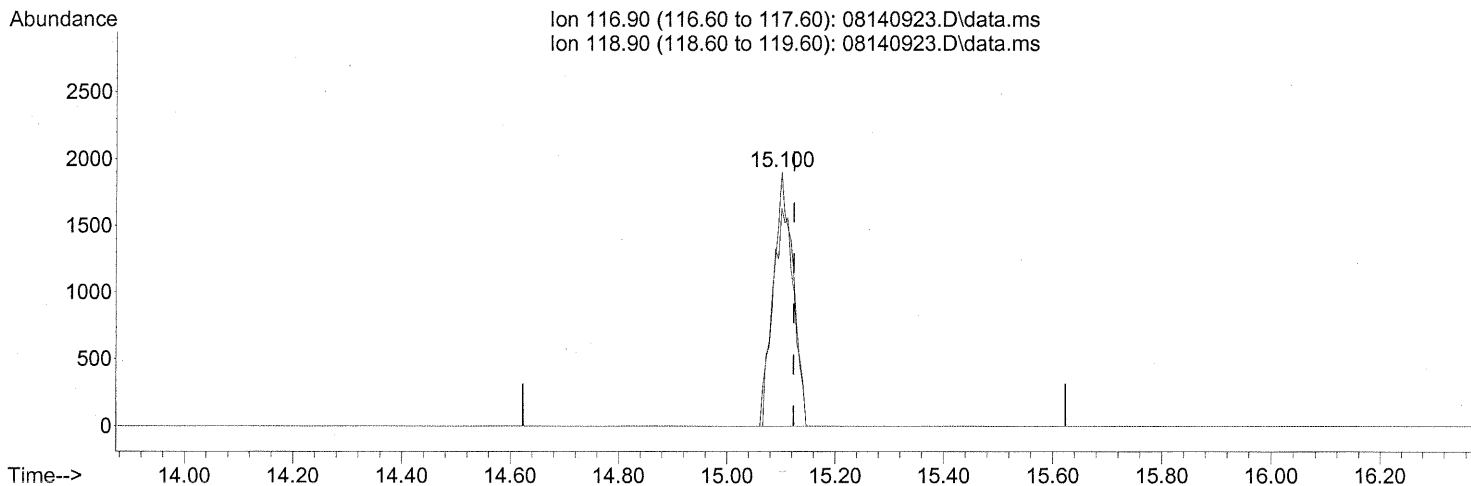
response 101362

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.34ng

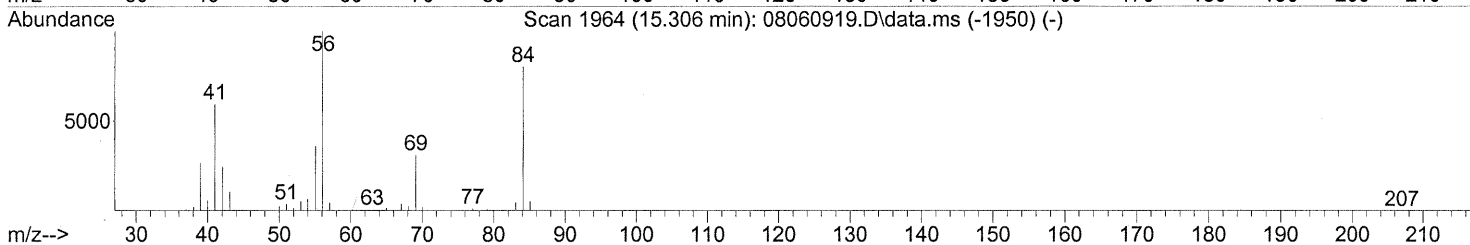
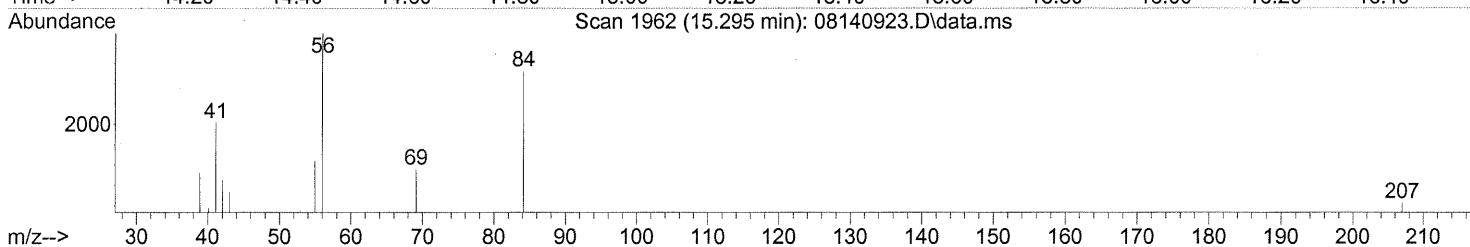
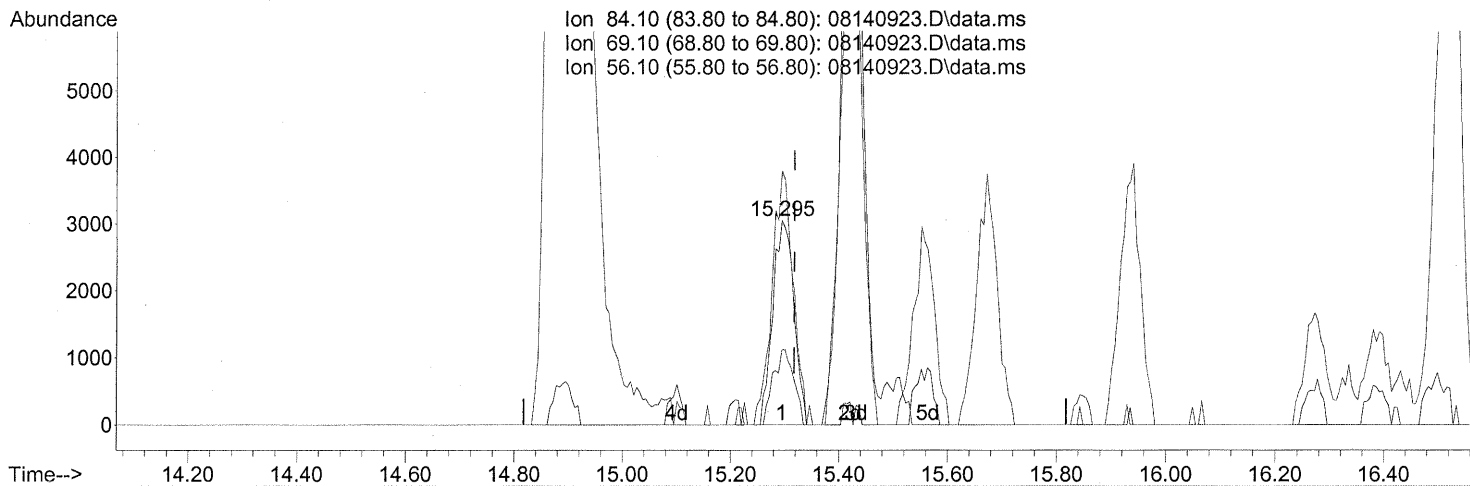
response 4832

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	91.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140923.D\data.ms

(43) Cyclohexane (T)

15.295min (-0.023) 0.50ng

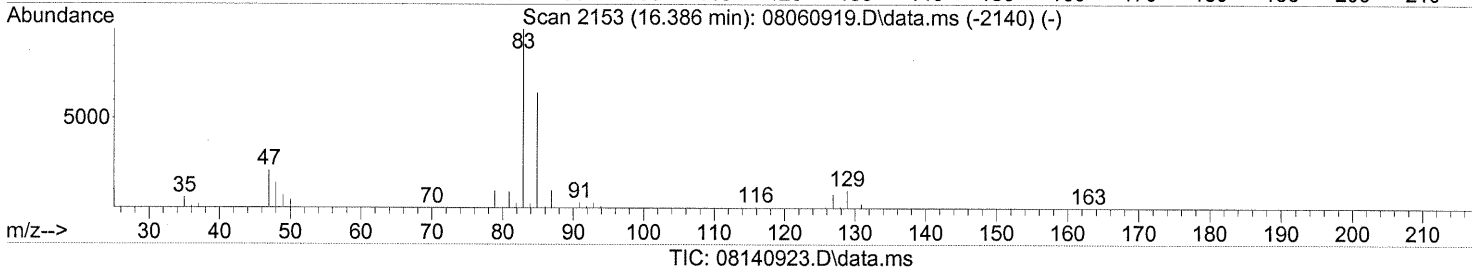
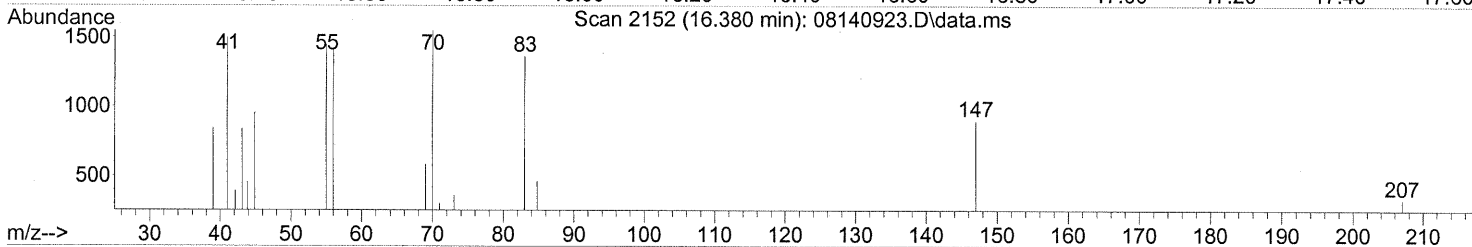
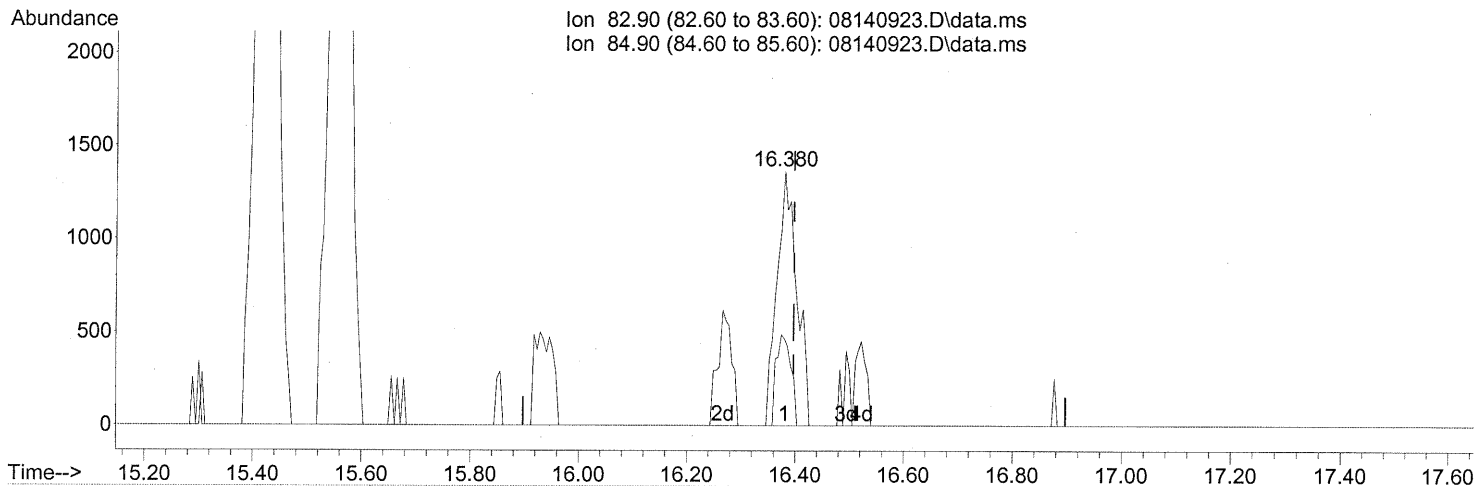
response 8226

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	35.92
56.10	127.50	125.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.23ng

response 3468

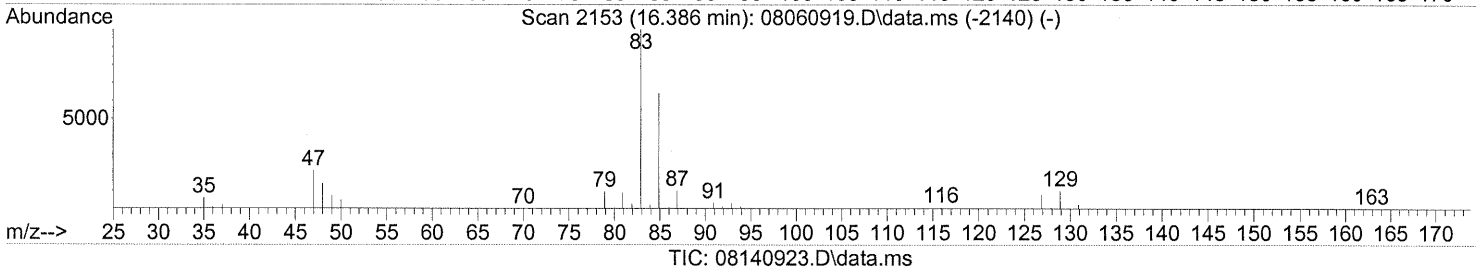
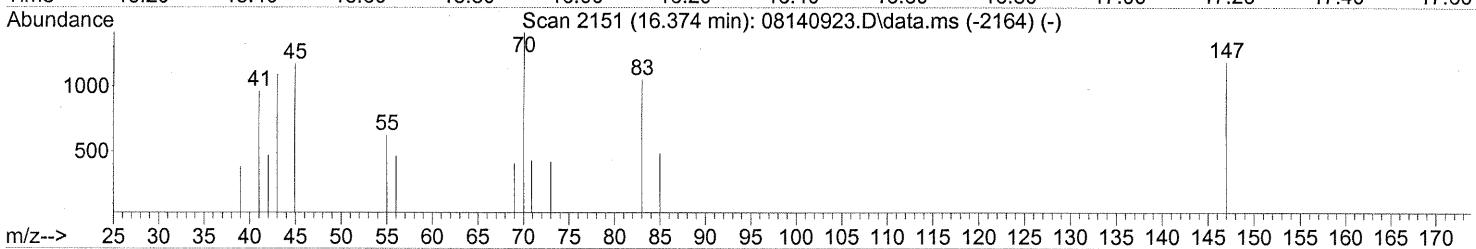
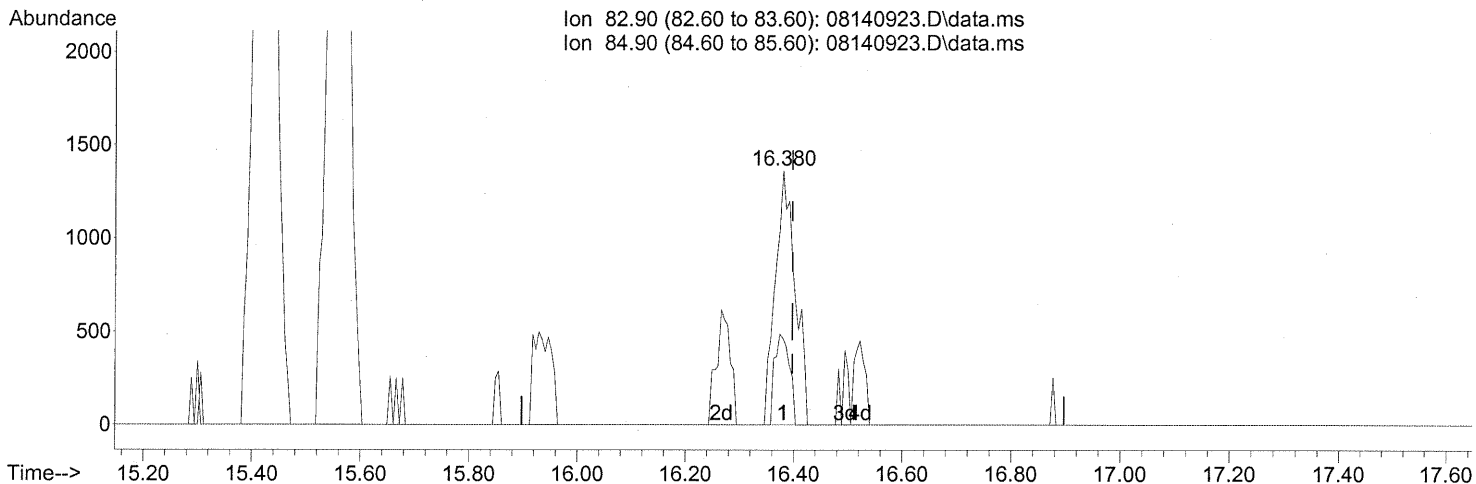
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	26.41#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.23ng

response 3468

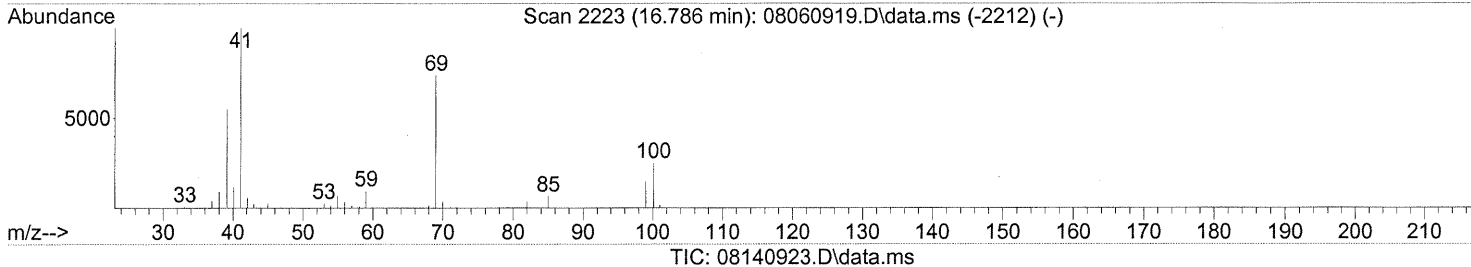
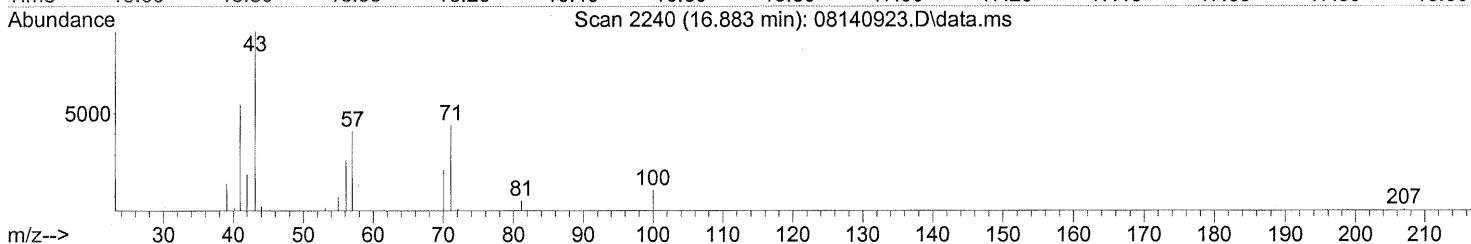
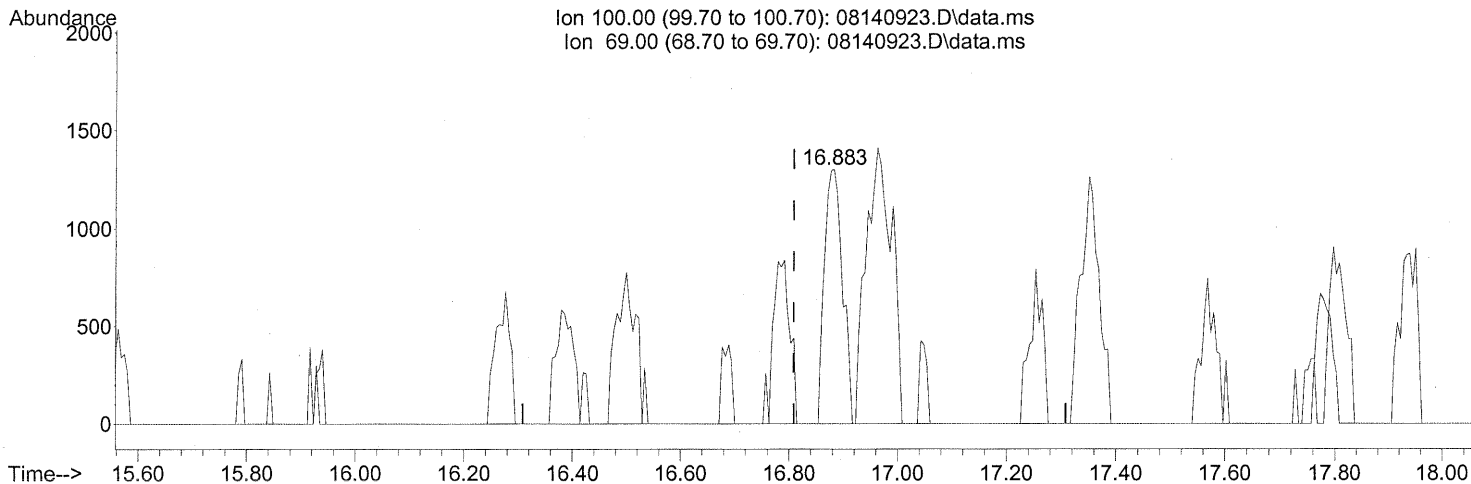
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	26.41#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140923.D
Acq On : 14 Aug 2009 21:29
Operator : WA
Sample : P0902721-004 (1000mL)
Misc : Env. Health & Engineering 100217
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.883min (+0.074) 0.73ng

response 3019

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

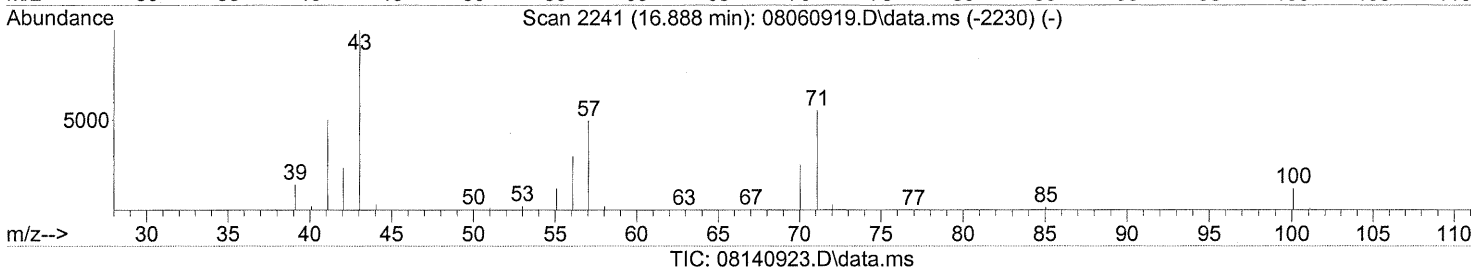
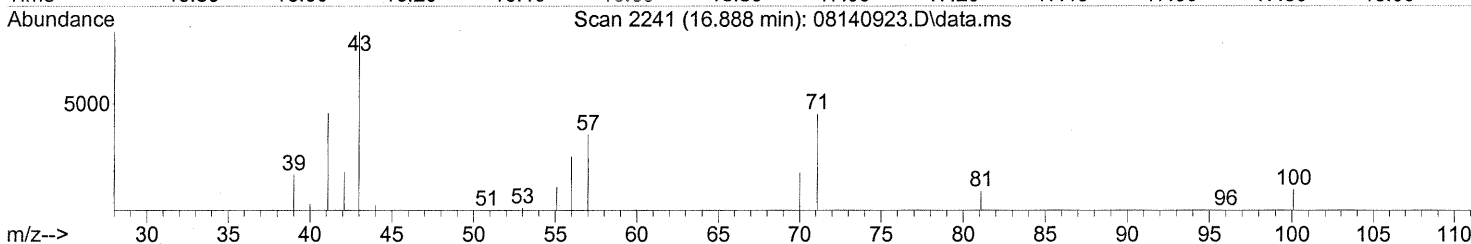
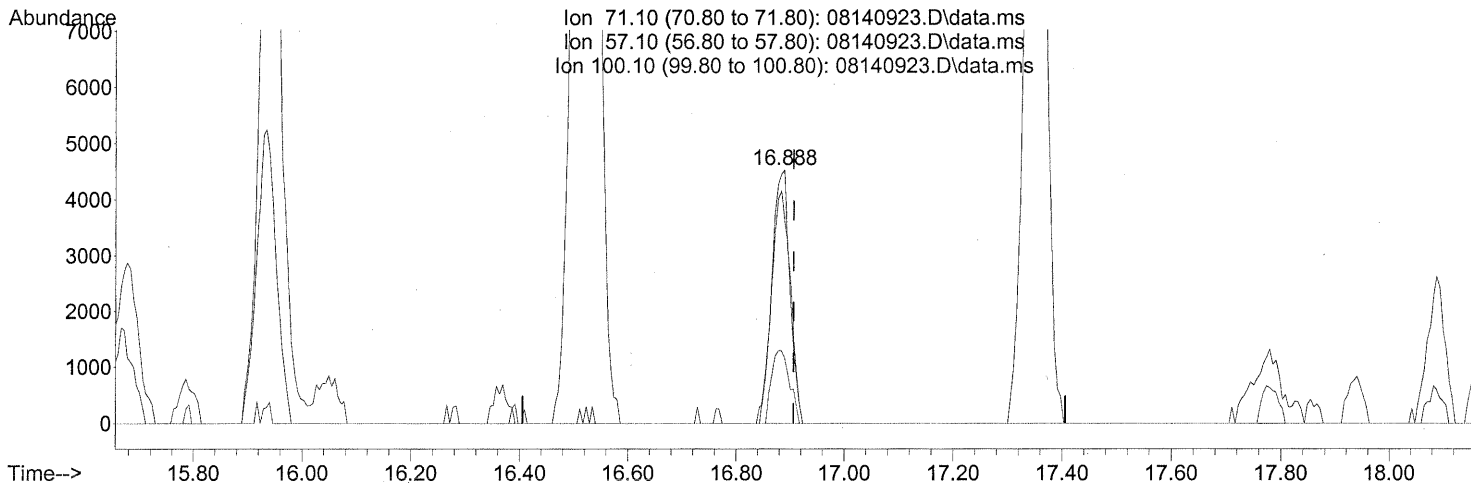
FP *UH 8/20/09*

em 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



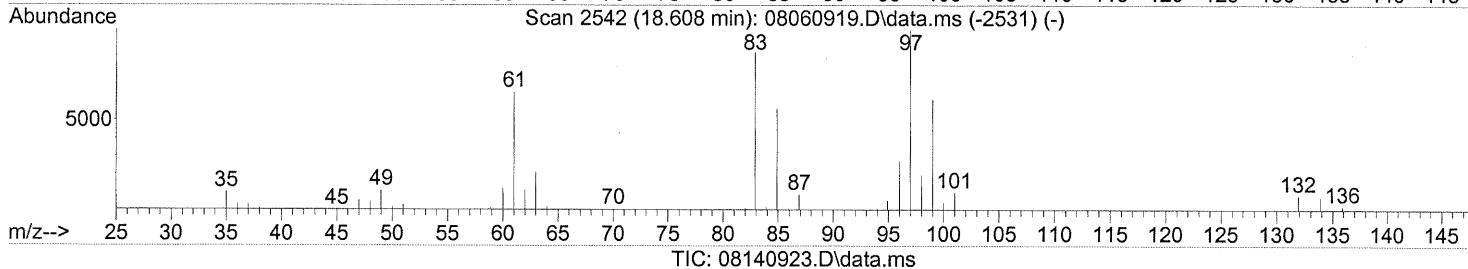
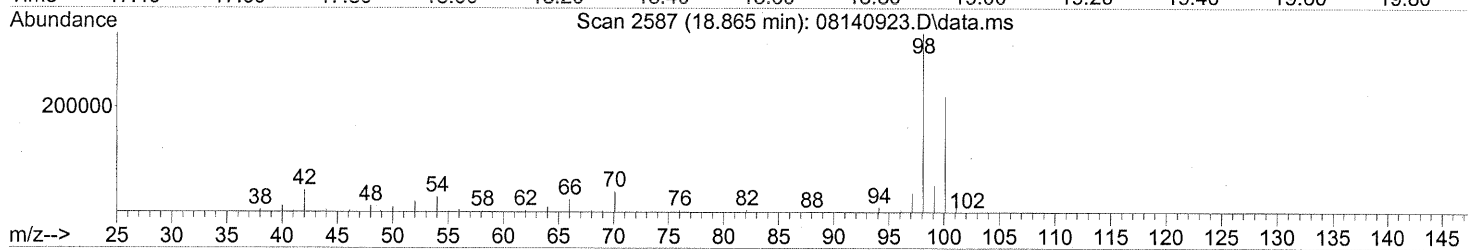
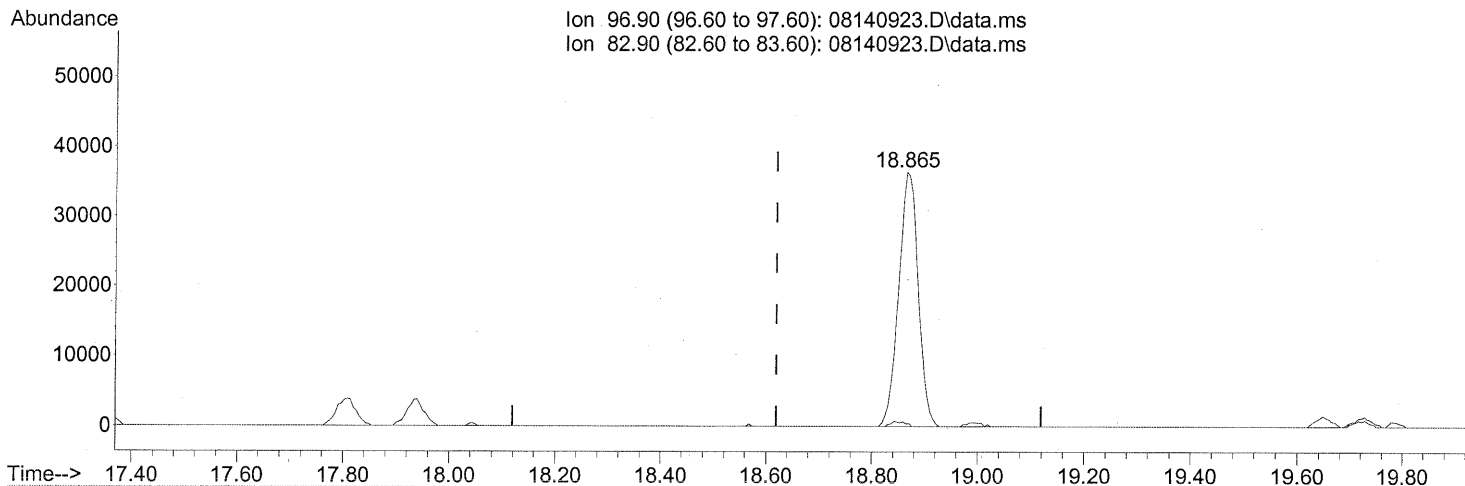
(51) n-Heptane (T)
 16.888min (-0.017) 0.89ng
 response 10720

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	91.49
100.10	26.40	28.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.44ng

response 93152

Ion	Exp%	Act%
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96.90	100	100
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82.90	90.30	0.00#
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0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
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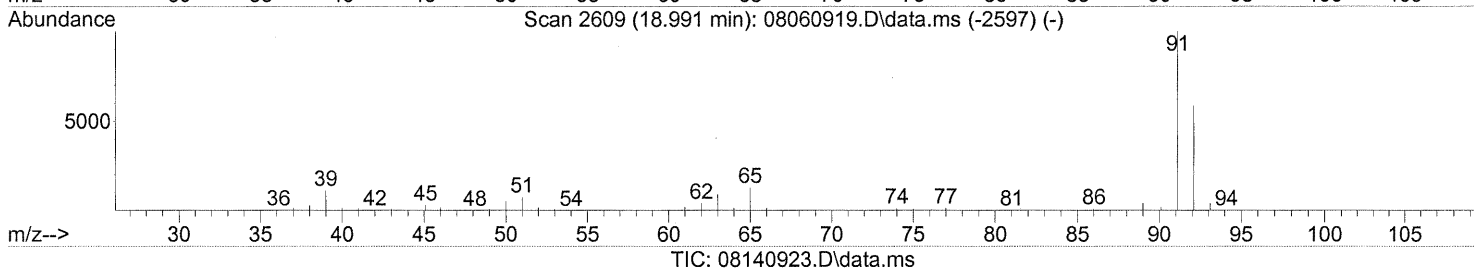
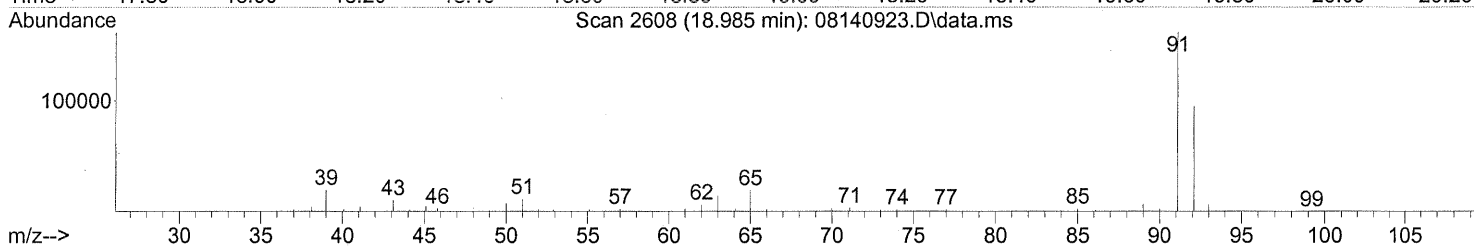
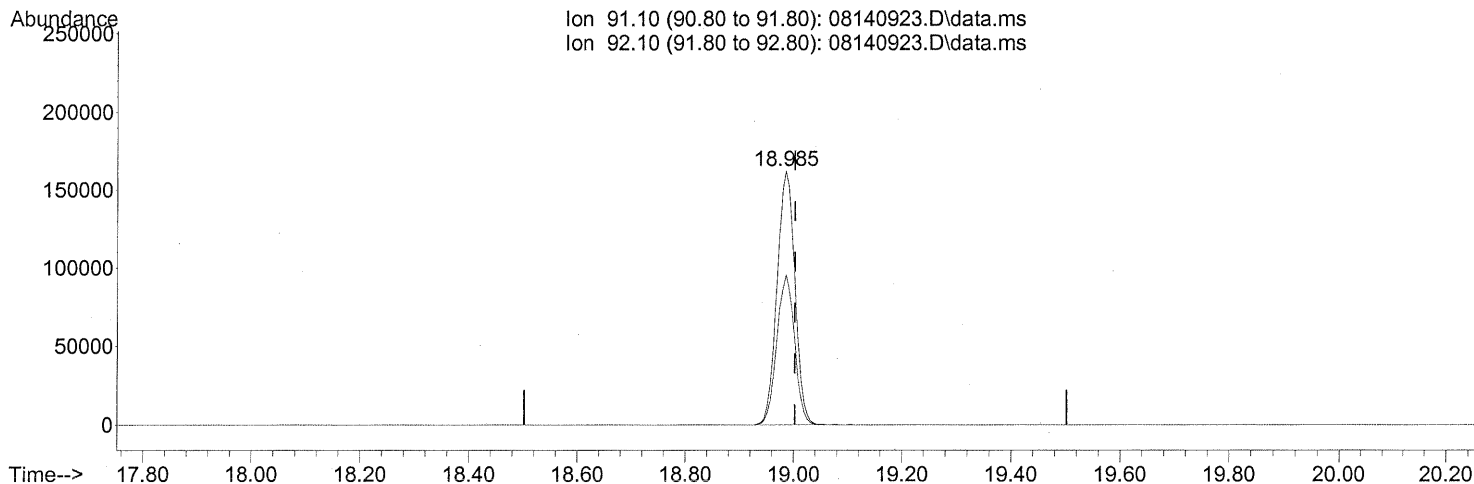
FP UH 8/20/09

Scan 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



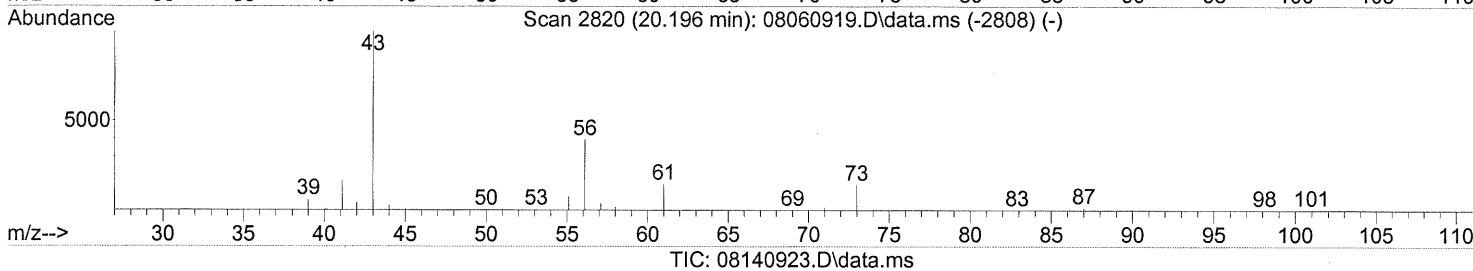
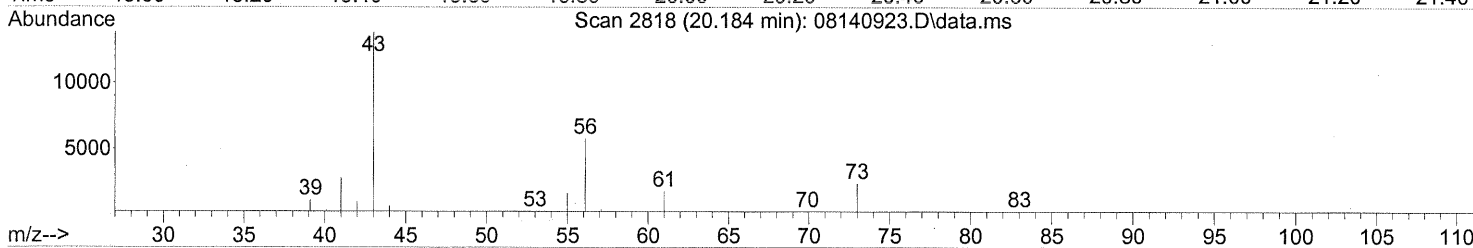
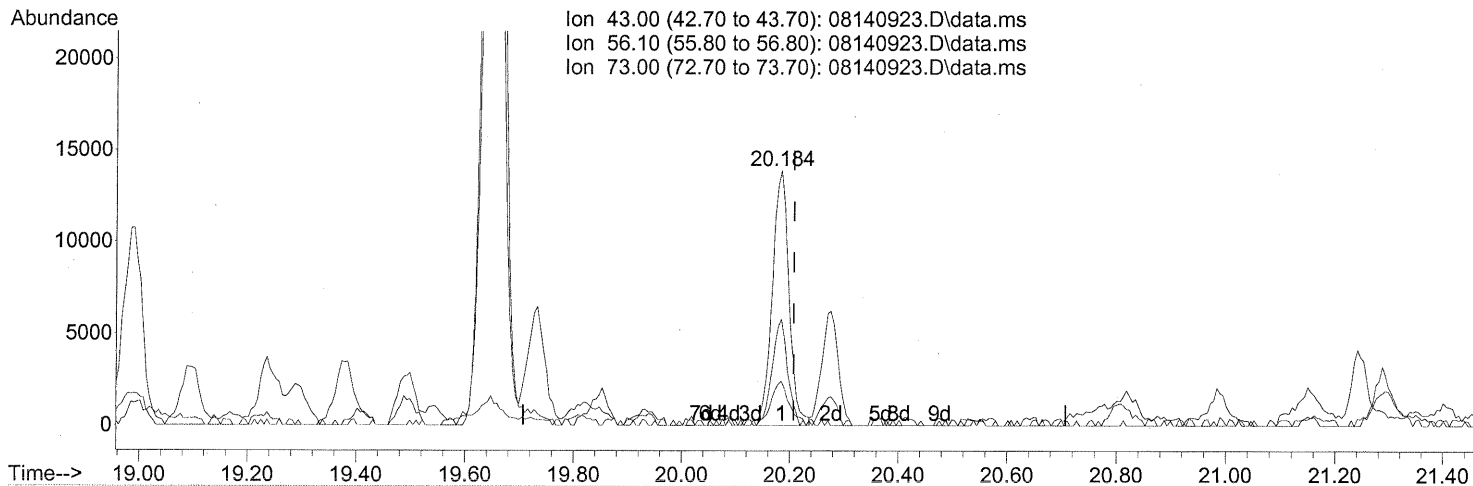
(58) Toluene (T)
 18.985min (-0.017) 8.70ng
 response 371606

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	58.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



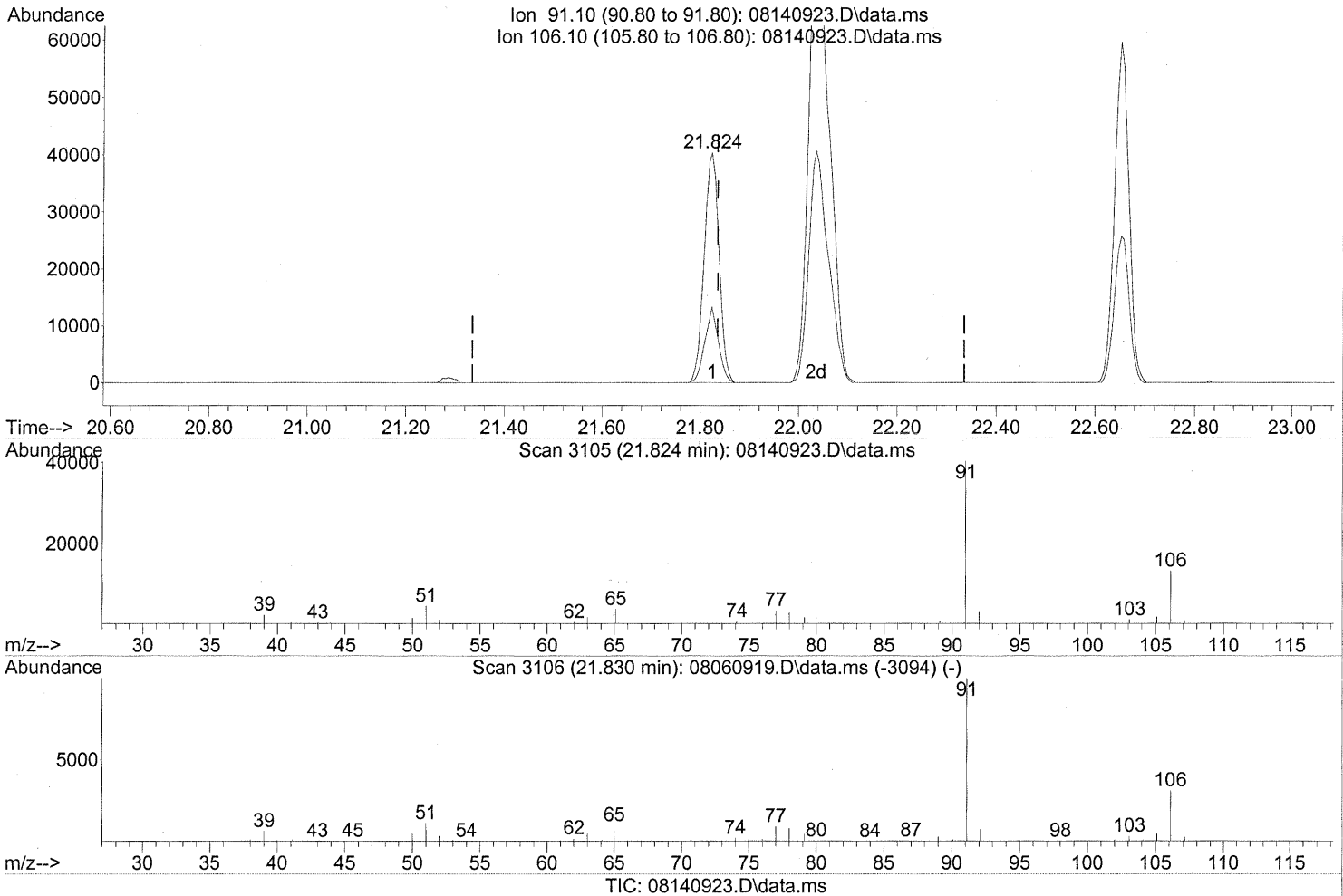
(62) n-Butyl Acetate (T)
 20.184min (-0.023) 0.89ng
 response 29829

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	39.04
73.00	14.80	19.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.824min (-0.011) 1.73ng

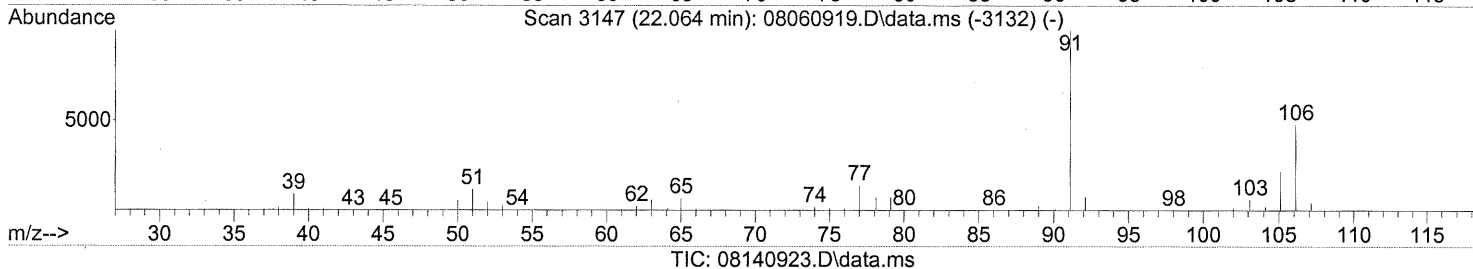
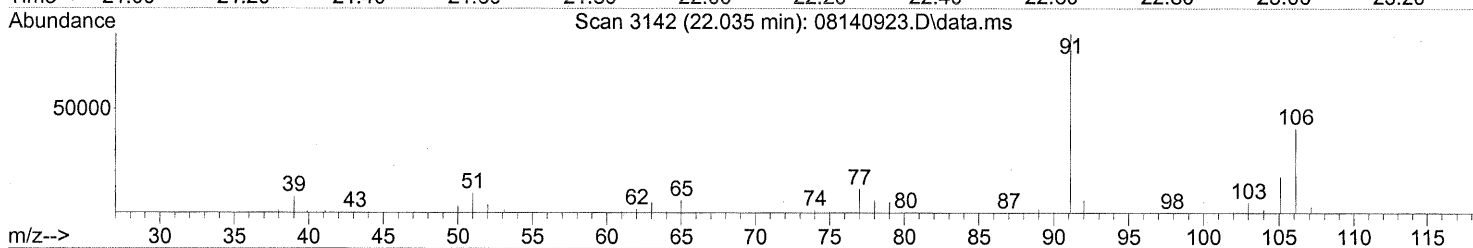
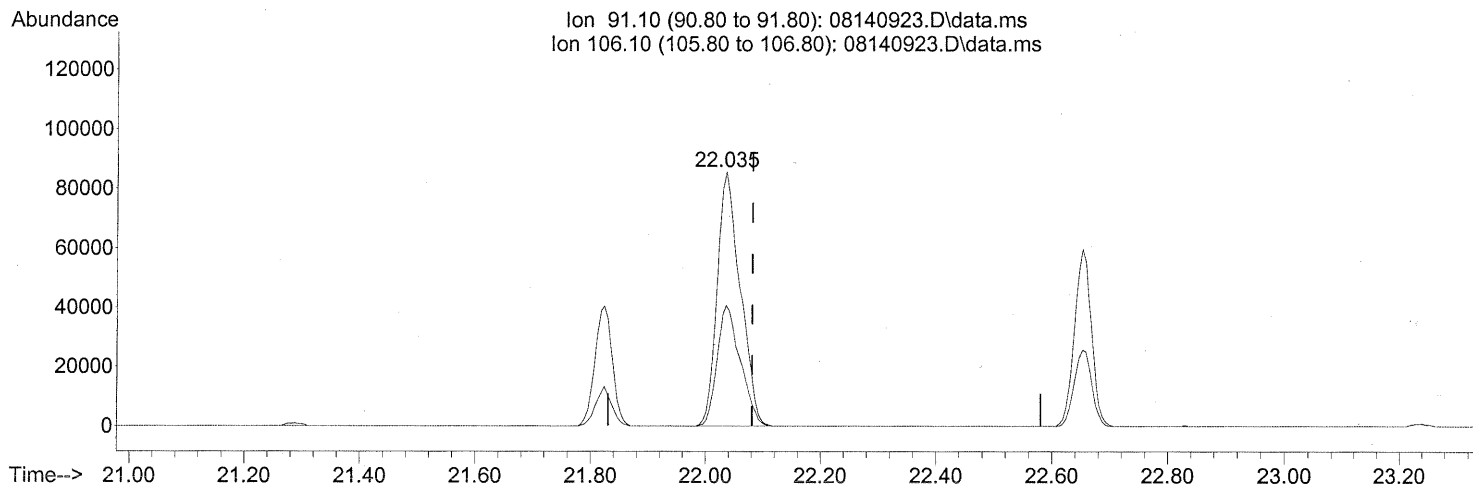
response 84503

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	29.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

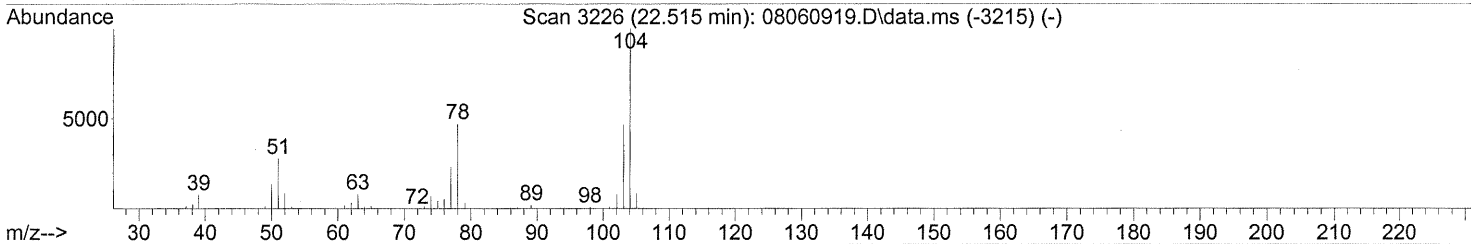
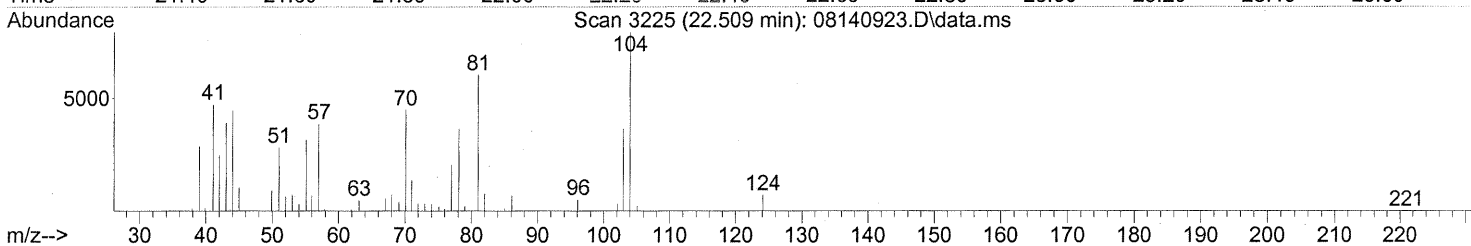
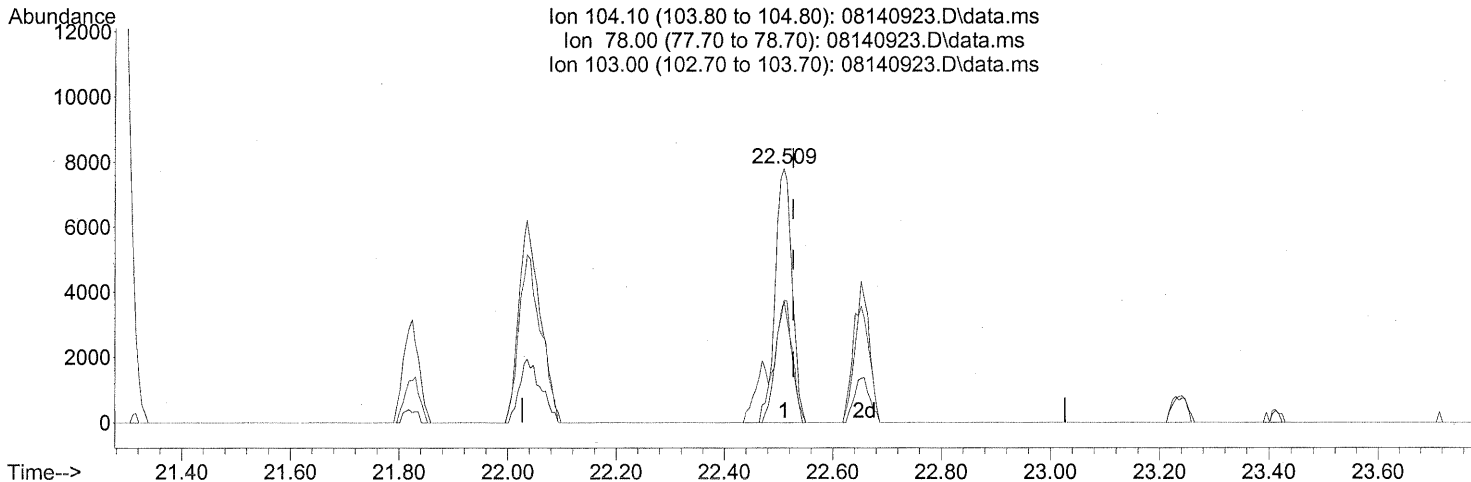
22.035min (-0.046) 6.02ng
 response 237843

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140923.D\data.ms

(69) Styrene (T)

22.509min (-0.017) 0.60ng

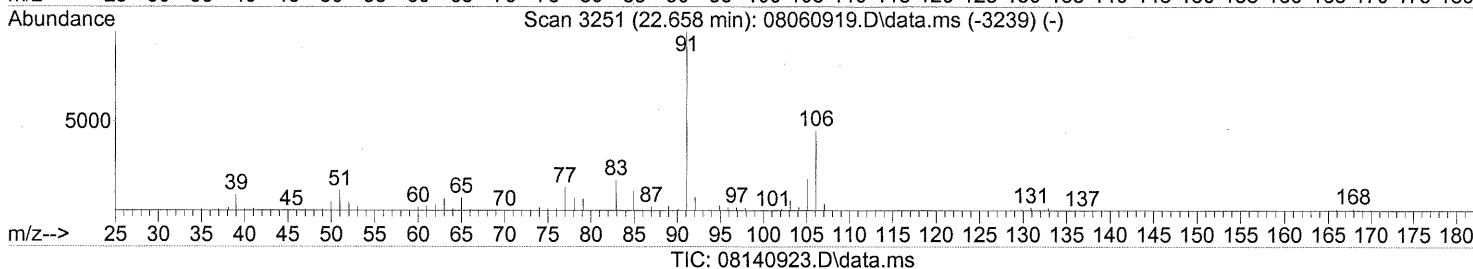
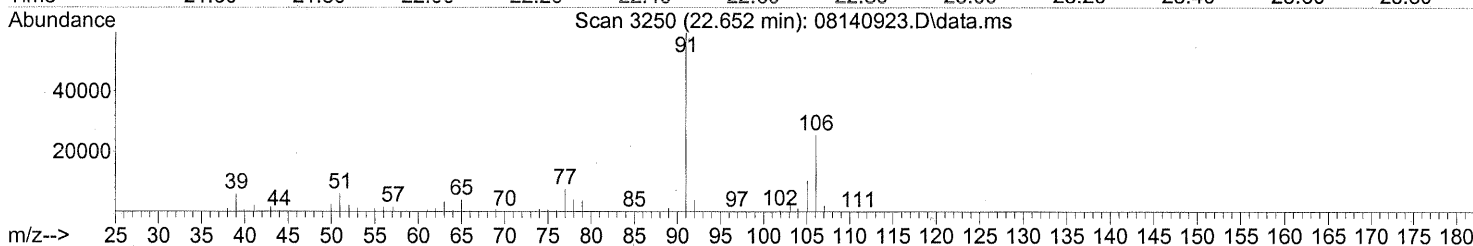
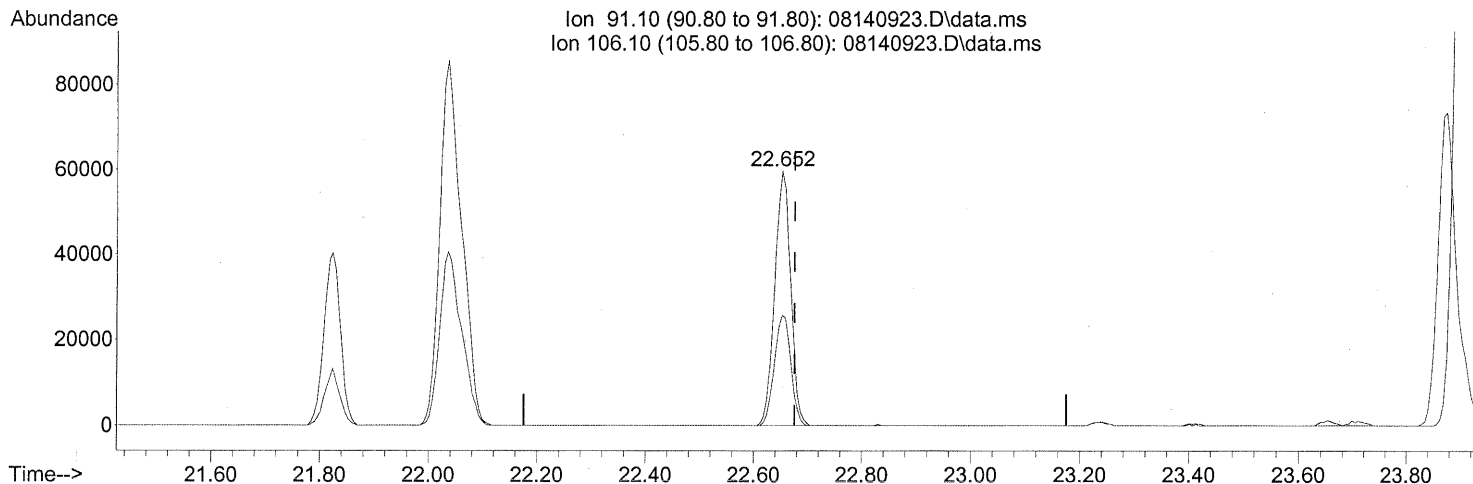
response 16994

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	45.04
103.00	46.20	47.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 3.06ng

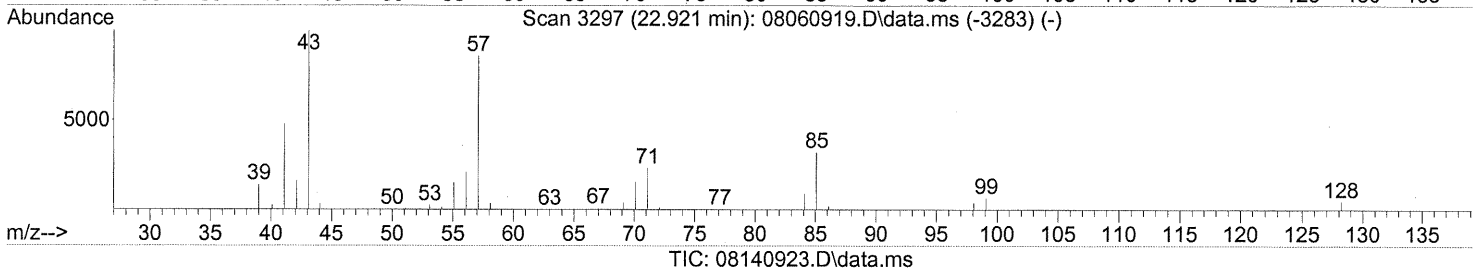
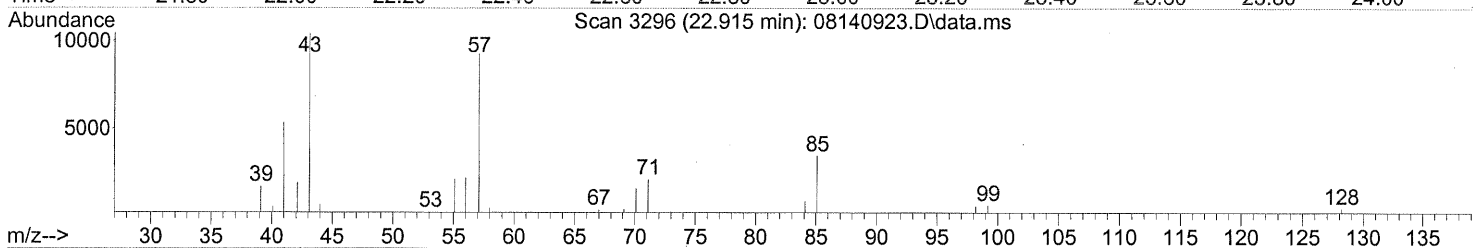
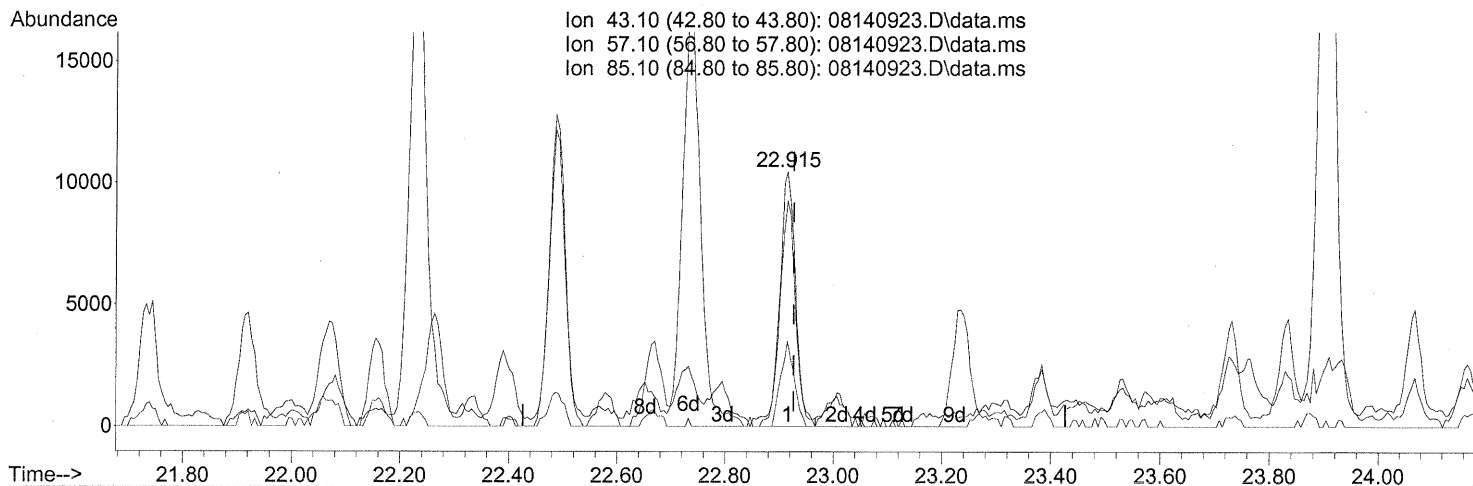
response 121211

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	44.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



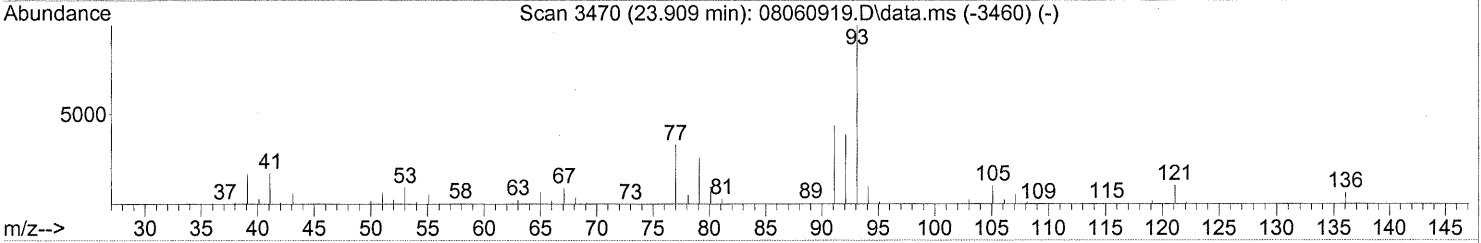
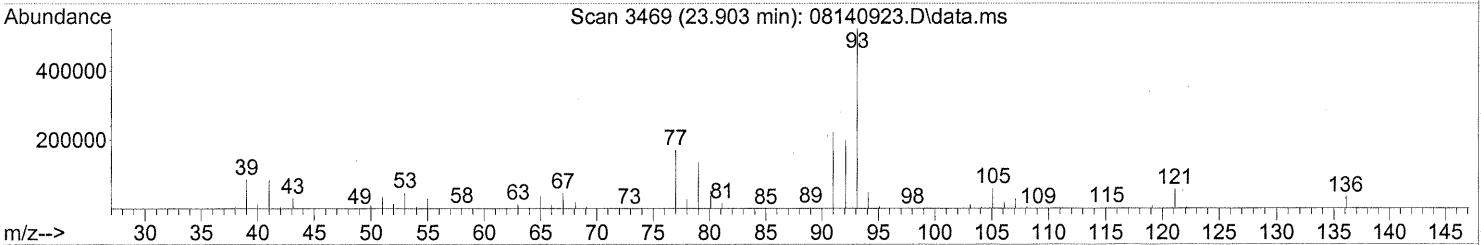
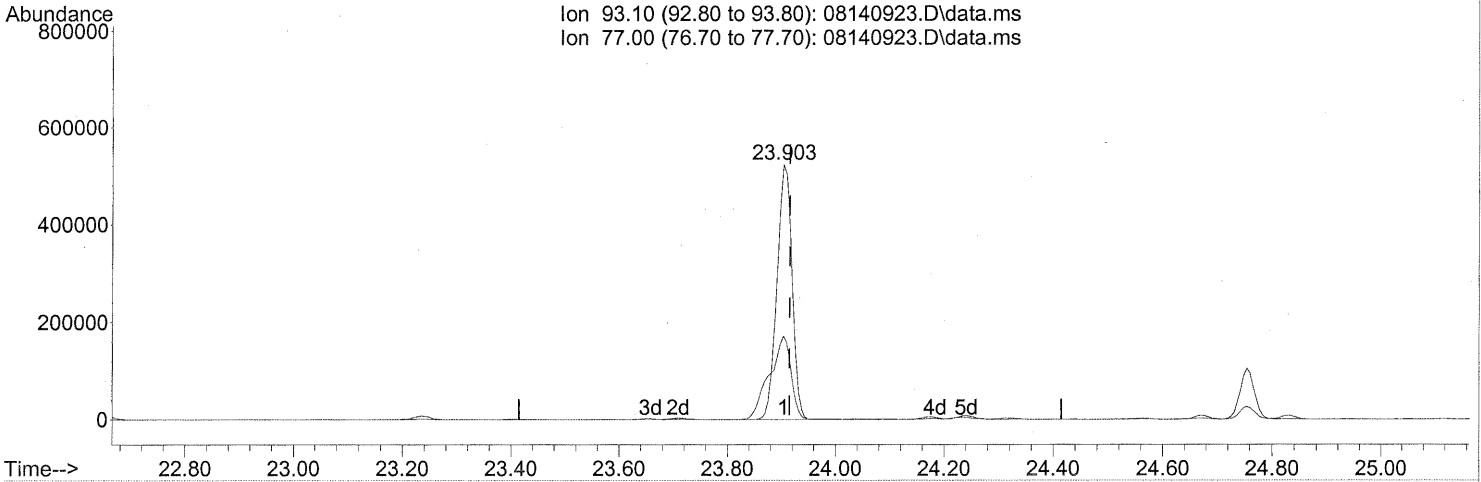
(71) n-Nonane (T)
 22.915min (-0.011) 0.82ng
 response 21663

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	84.70
85.10	30.40	28.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140923.D\data.ms

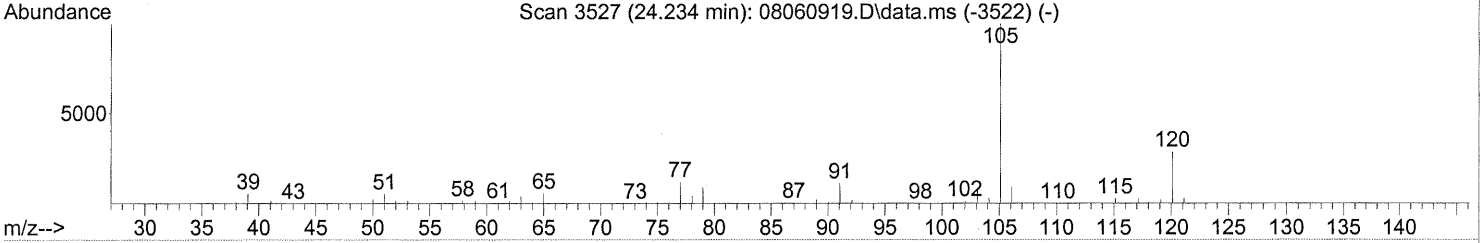
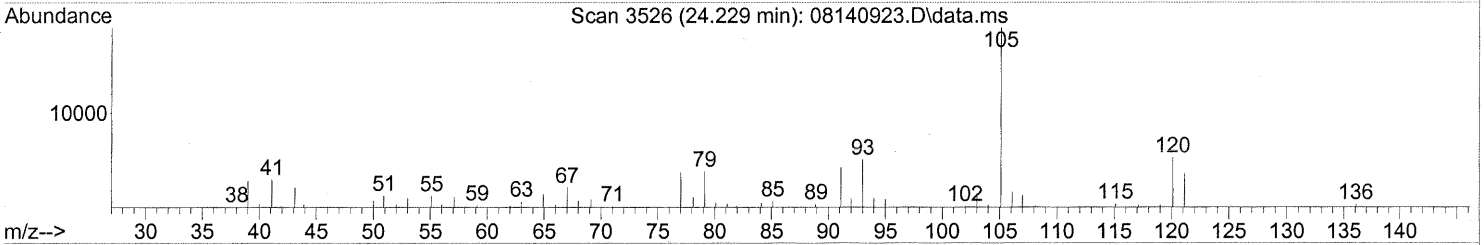
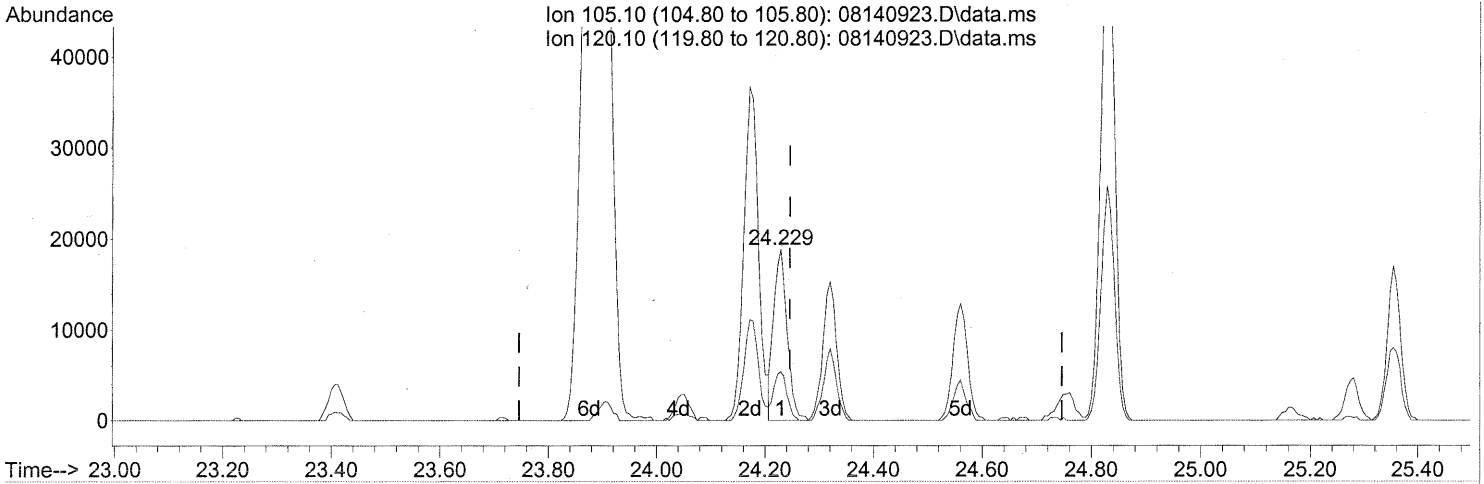
(75) alpha-Pinene (T)
 23.903min (-0.011) 39.77ng
 response 1019478

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	46.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



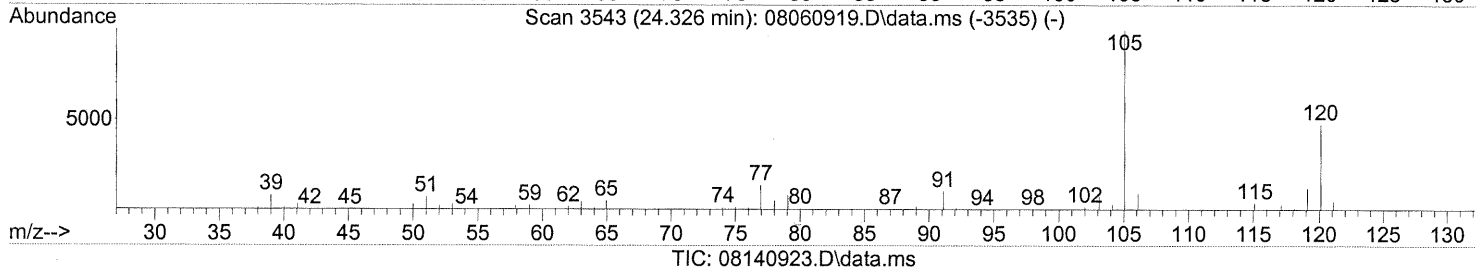
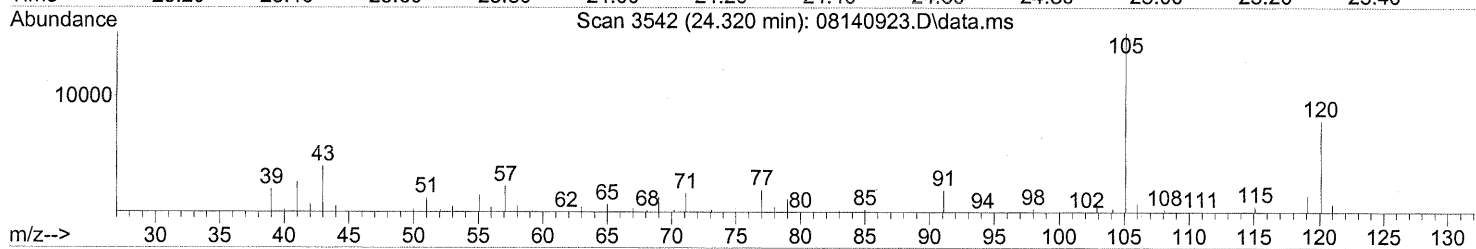
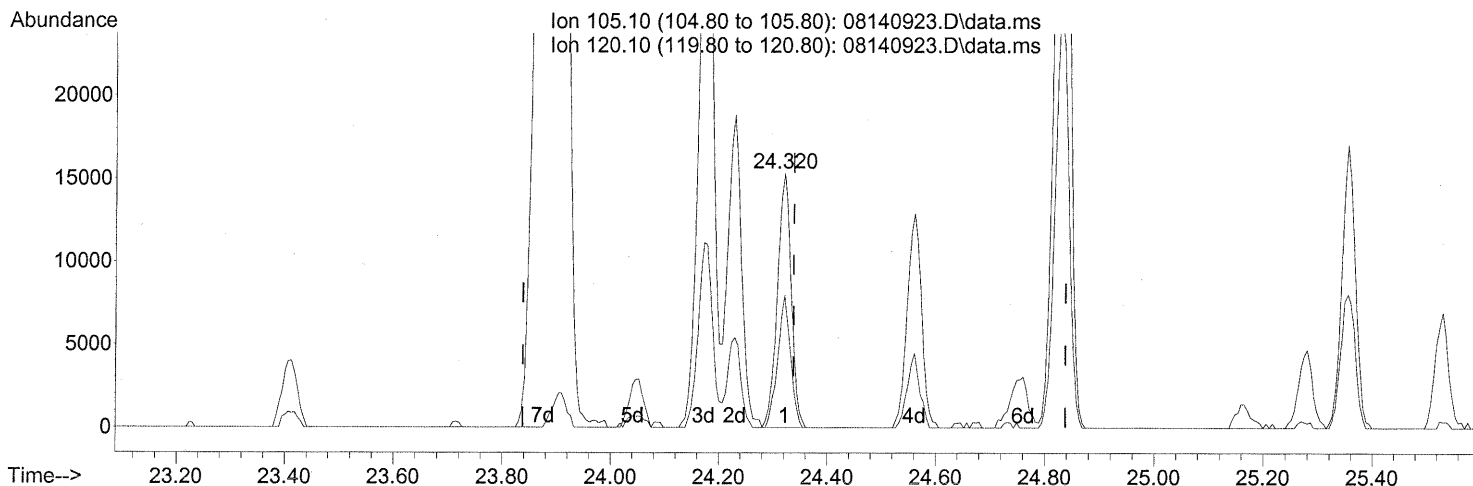
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 0.70ng
 response 32536

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	28.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 0.69ng

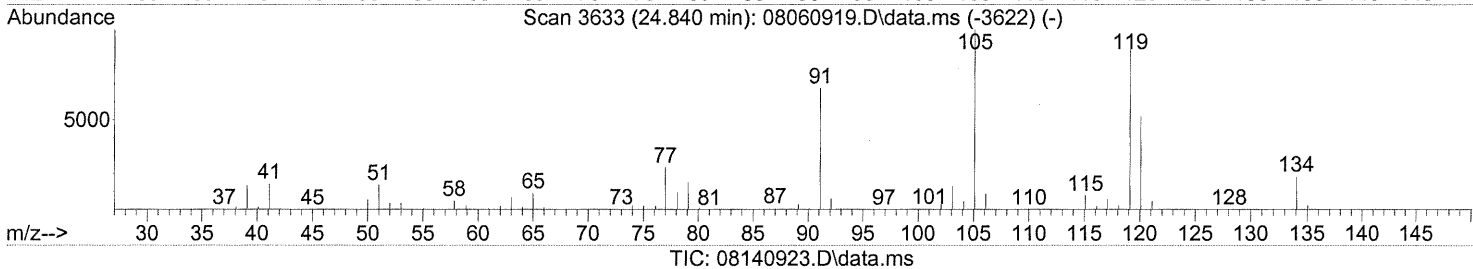
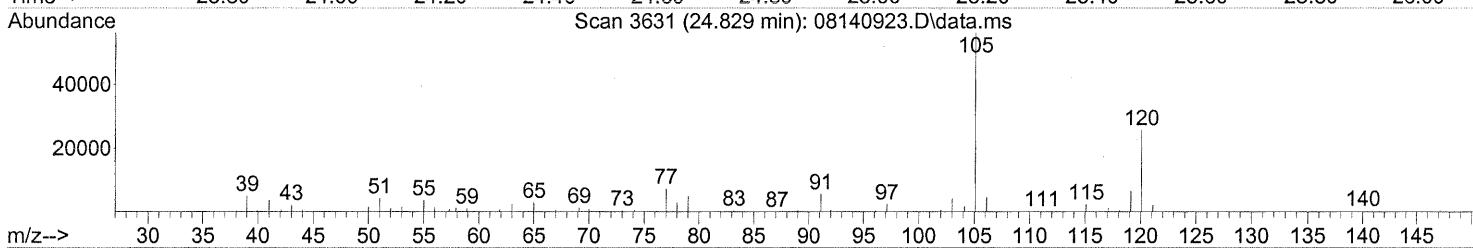
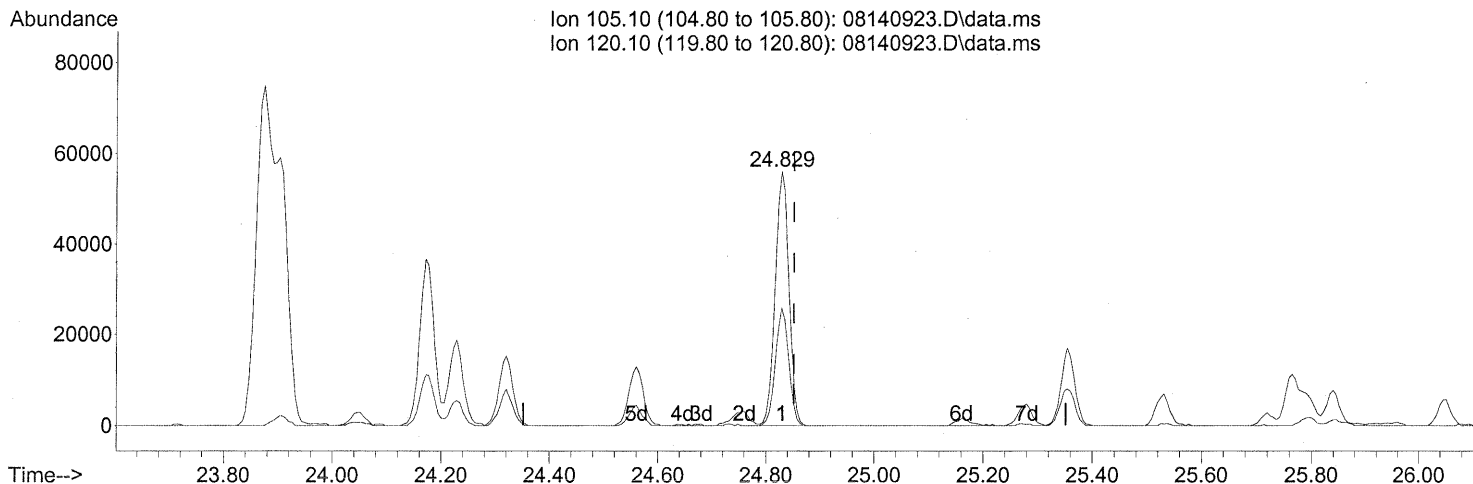
response 27093

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	48.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.829min (-0.023) 2.48ng

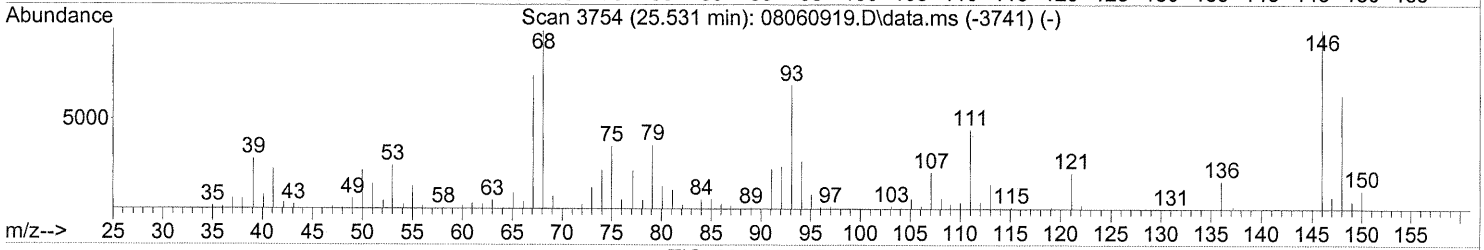
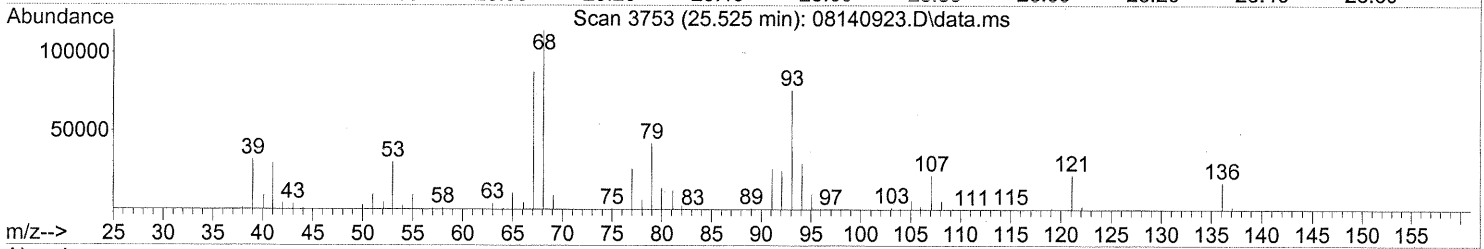
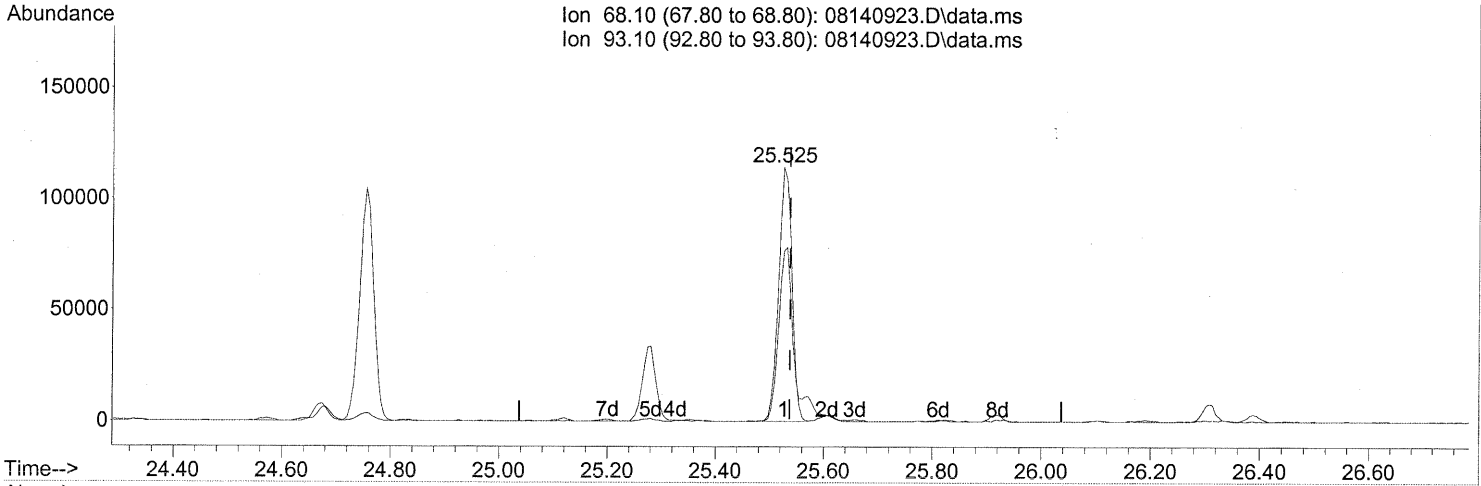
response 98823

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140923.D
 Acq On : 14 Aug 2009 21:29
 Operator : WA
 Sample : P0902721-004 (1000mL)
 Misc : Env. Health & Engineering 100217
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140923.D\data.ms

(91) d-Limonene (T)

25.525min (-0.011) 11.52ng

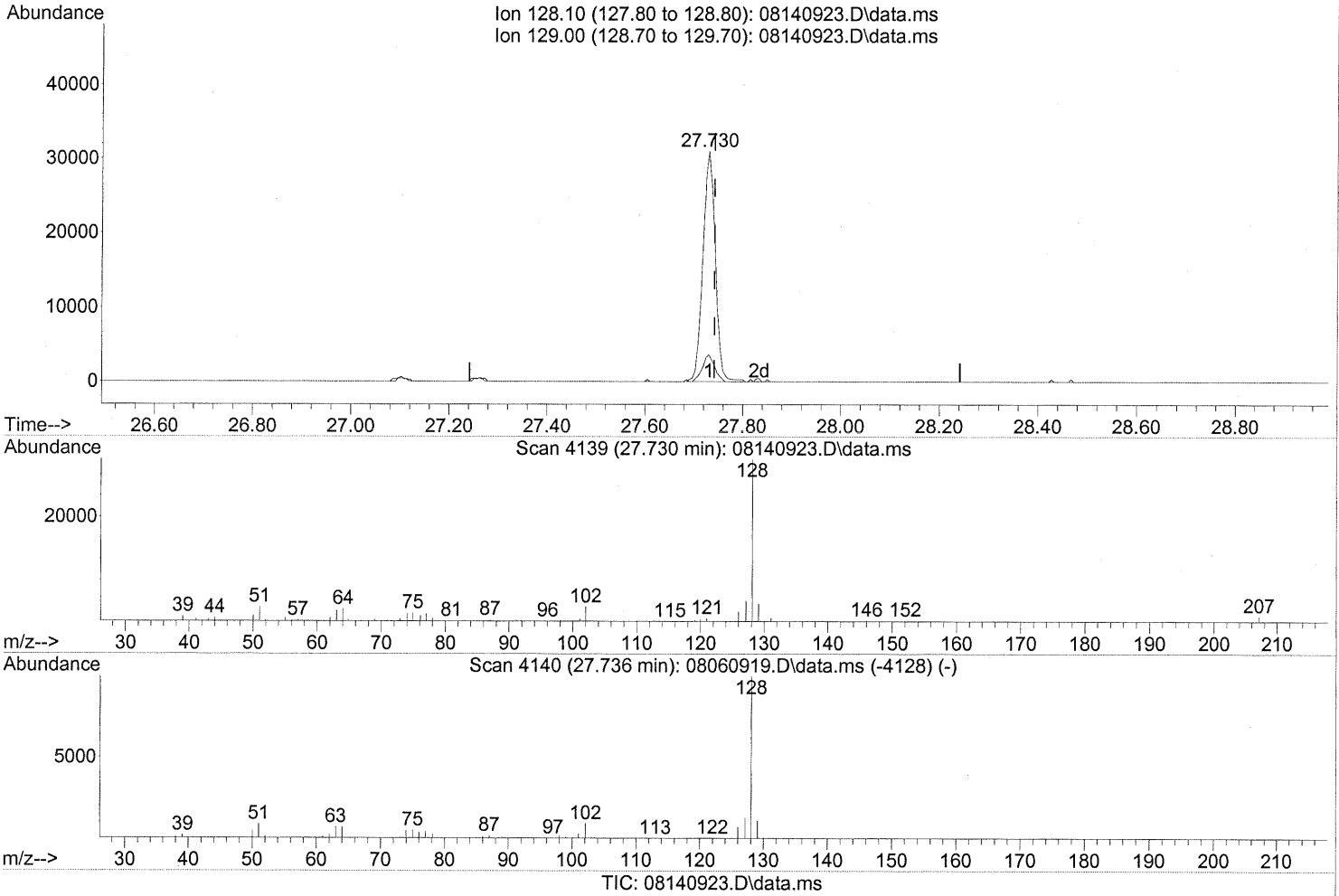
response 195191

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	81.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140923.D
Acq On : 14 Aug 2009 21:29
Operator : WA
Sample : P0902721-004 (1000mL)
Misc : Env. Health & Engineering 100217
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 07:23:16 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(95) Naphthalene (T)

27.730min (-0.011) 1.01ng

response 54666

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.54
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100218
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-005

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: AC01215

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.37

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	1.9	0.69	1.1	0.40	MI
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.69	0.60	0.14	
74-87-3	Chloromethane	1.0	0.14	0.51	0.066	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.69	ND	0.098	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.054	
106-99-0	1,3-Butadiene	ND	0.14	ND	0.062	
74-83-9	Bromomethane	0.53	0.14	0.14	0.035	
75-00-3	Chloroethane	ND	0.14	ND	0.052	
64-17-5	Ethanol	210	6.9	110	3.6	
75-05-8	Acetonitrile	310	0.69	190	0.41	E
107-02-8	Acrolein	3.9	0.69	1.7	0.30	
67-64-1	Acetone	59	6.9	25	2.9	
75-69-4	Trichlorofluoromethane	1.5	0.14	0.26	0.024	
67-63-0	2-Propanol (Isopropyl Alcohol)	6.1	0.69	2.5	0.28	
107-13-1	Acrylonitrile	ND	0.69	ND	0.32	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.035	
75-09-2	Methylene Chloride	ND	0.69	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	ND	0.044	
76-13-1	Trichlorotrifluoroethane	0.77	0.14	0.10	0.018	
75-15-0	Carbon Disulfide	0.77	0.69	0.25	0.22	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.035	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	ND	0.038	
108-05-4	Vinyl Acetate	ND	6.9	ND	1.9	
78-93-3	2-Butanone (MEK)	2.8	0.69	0.94	0.23	

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.

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

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100218
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-005

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: AC01215

Date Collected: 8/6/09
 Date Received: 8/7/09
 Date Analyzed: 8/14/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.37

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.035	
141-78-6	Ethyl Acetate	1.6	0.69	0.43	0.19	
110-54-3	n-Hexane	5.0	0.69	1.4	0.19	
67-66-3	Chloroform	0.92	0.14	0.19	0.028	
109-99-9	Tetrahydrofuran (THF)	1.2	0.69	0.41	0.23	
107-06-2	1,2-Dichloroethane	0.28	0.14	0.069	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	4.1	0.14	1.3	0.043	
56-23-5	Carbon Tetrachloride	0.55	0.14	0.087	0.022	
110-82-7	Cyclohexane	0.99	0.69	0.29	0.20	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.030	
75-27-4	Bromodichloromethane	0.39	0.14	0.058	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.69	ND	0.19	
80-62-6	Methyl Methacrylate	ND	0.69	ND	0.17	
142-82-5	n-Heptane	1.6	0.69	0.38	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.69	ND	0.15	
108-10-1	4-Methyl-2-pentanone	0.71	0.69	0.17	0.17	
10061-02-6	trans-1,3-Dichloropropene	ND	0.69	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	15	0.69	4.1	0.18	
591-78-6	2-Hexanone	ND	0.69	ND	0.17	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	1.5	0.69	0.31	0.14	

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: _____ Date: 8/24/09 **189**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100218
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-005

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: AC01215

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.37

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.89	0.69	0.19	0.15	
127-18-4	Tetrachloroethene	0.16	0.14	0.024	0.020	
108-90-7	Chlorobenzene	ND	0.14	ND	0.030	
100-41-4	Ethylbenzene	3.0	0.69	0.69	0.16	
179601-23-1	m,p-Xylenes	11	0.69	2.4	0.16	
75-25-2	Bromoform	ND	0.69	ND	0.066	
100-42-5	Styrene	1.1	0.69	0.26	0.16	
95-47-6	o-Xylene	5.3	0.69	1.2	0.16	
111-84-2	n-Nonane	1.3	0.69	0.25	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.69	ND	0.14	
80-56-8	alpha-Pinene	71	0.69	13	0.12	
103-65-1	n-Propylbenzene	0.75	0.69	0.15	0.14	
622-96-8	4-Ethyltoluene	1.3	0.69	0.26	0.14	
108-67-8	1,3,5-Trimethylbenzene	1.3	0.69	0.26	0.14	
95-63-6	1,2,4-Trimethylbenzene	4.3	0.69	0.88	0.14	
100-44-7	Benzyl Chloride	ND	0.14	ND	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.14	ND	0.023	
106-46-7	1,4-Dichlorobenzene	0.14	0.14	0.024	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.14	ND	0.023	
5989-27-5	d-Limonene	20	0.69	3.6	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.69	ND	0.071	
120-82-1	1,2,4-Trichlorobenzene	ND	0.69	ND	0.092	
91-20-3	Naphthalene	2.1	0.69	0.39	0.13	
87-68-3	Hexachlorobutadiene	ND	0.69	ND	0.064	

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: _____

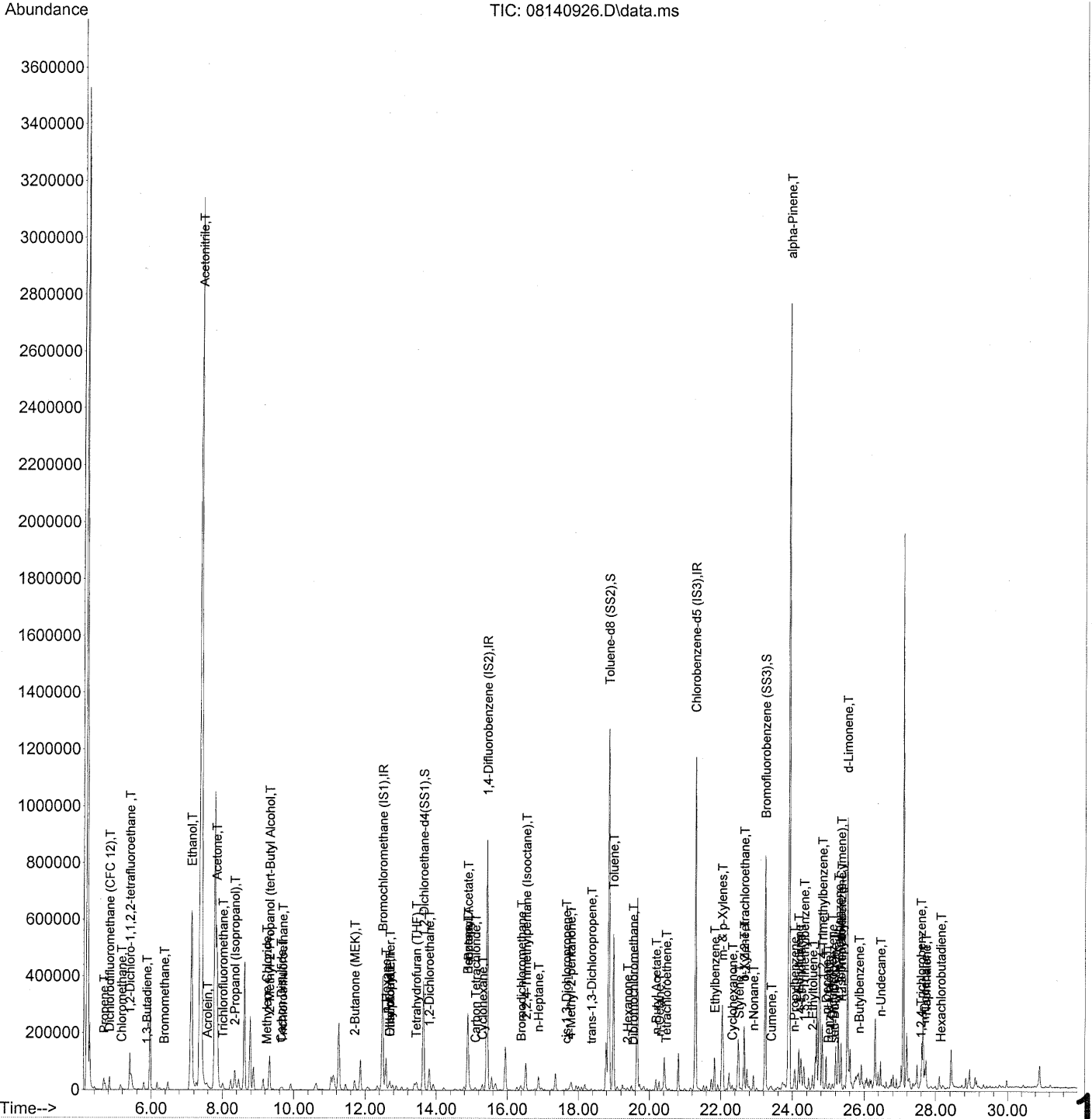
Date: 8/24/09

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Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 19 17:10:47 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218 ✓✓
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 19 17:10:47 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	199972	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.43	114	1002949	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	494168	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	397585	22.875	ng	-0.03
Spiked Amount	25.000			Recovery =	91.48%	✓
57) Toluene-d8 (SS2)	18.85	98	1072300	24.834	ng	-0.01
Spiked Amount	25.000			Recovery =	99.32%	✓
73) Bromofluorobenzene (SS3)	23.24	174	265703	23.334	ng	0.00
Spiked Amount	25.000			Recovery =	93.32%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	19175	1.397	ng	# M 84
3) Dichlorodifluoromethan...	4.83	85	48189	2.149	ng	97
4) Chloromethane	5.17	50	11507	0.764	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	767	0.084	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	647	0.062	ng	# 1
8) Bromomethane	6.36	94	3394	0.385	ng	99
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	1348838	155.069	ng	100
11) Acetonitrile	7.41	41	5784635	227.082	ng	E 99
12) Acrolein	7.57	56	18669	2.820	ng	99
13) Acetone	7.82	58	352844m	42.992	ng	
14) Trichlorofluoromethane	8.01	101	22010	1.085	ng	99
15) 2-Propanol (Isopropanol)	8.34	45	143374m	4.445	ng	
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.31	59	3862	0.135	ng	# 1
19) Methylene Chloride	9.23	84	1725	0.157	ng	95
20) 3-Chloro-1-propene (Al...	9.43	41	421	N.D.		
21) Trichlorotrifluoroethane	9.68	151	4161	0.564	ng	94
22) Carbon Disulfide	9.64	76	21718	0.559	ng	94
23) trans-1,2-Dichloroethene	10.60	61	90	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.14	73	93	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.70	72	15020	2.027	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.69	87	1018	0.103	ng	# 1
30) Ethyl Acetate	12.69	61	4399	1.140	ng	98
31) n-Hexane	12.58	57	71533	3.622	ng	99

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 19 17:10:47 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	11668	0.671	ng	99
34) Tetrahydrofuran (THF)	13.43	72	6916	0.876	ng	92
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	3249	0.204	ng	83
38) 1,1,1-Trichloroethane	14.19	97	350	N.D.		
39) Isopropyl Acetate	14.88	61	844	0.113	ng	# 1
40) 1-Butanol	14.89	56	163945	12.595	ng	80
41) Benzene	14.88	78	132259	2.999	ng	97
42) Carbon Tetrachloride	15.10	117	5628	0.400	ng	92
43) Cyclohexane	15.29	84	11605	0.719	ng	97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.39	83	4137	0.285	ng	# 60
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.56	88	110	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	108984	2.098	ng	97
50) Methyl Methacrylate	0.00	100	0	N.D.	d	
51) n-Heptane	16.88	71	13580	1.148	ng	97
52) cis-1,3-Dichloropropene	17.65	75	5847	0.319	ng	95
53) 4-Methyl-2-pentanone	17.78	58	5469	0.516	ng	99
54) trans-1,3-Dichloropropene	18.36	75	5433	0.311	ng	97
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	472668	11.138	ng	99
59) 2-Hexanone	19.38	43	11150	0.395	ng	90
60) Dibromochloromethane	19.54	129	508	0.051	ng	# 57
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	35742	1.075	ng	95
63) n-Octane	20.28	57	6683	0.651	ng	94
64) Tetrachloroethene	20.47	166	1165	0.119	ng	87
65) Chlorobenzene	21.37	112	1047	N.D.		
66) Ethylbenzene	21.82	91	106568	2.197	ng	99
67) m- & p-Xylenes	22.04	91	302198	7.701	ng	98
68) Bromoform	22.15	173	308	N.D.		
69) Styrene	22.51	104	22534	0.794	ng	98
70) o-Xylene	22.65	91	153355	3.898	ng	99
71) n-Nonane	22.91	43	24781	0.948	ng	99
72) 1,1,2,2-Tetrachloroethane	22.65	83	976	0.056	ng	# 1
74) Cumene	23.41	105	11816	0.238	ng	98
75) alpha-Pinene	23.90	93	1314274	51.590	ng	83
76) n-Propylbenzene	24.05	91	34380	0.550	ng	87
77) 3-Ethyltoluene	24.17	105	90715	1.910	ng	99
78) 4-Ethyltoluene	24.23	105	42940	0.933	ng	99
79) 1,3,5-Trimethylbenzene	24.32	105	36498	0.940	ng	99

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 19 17:10:47 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

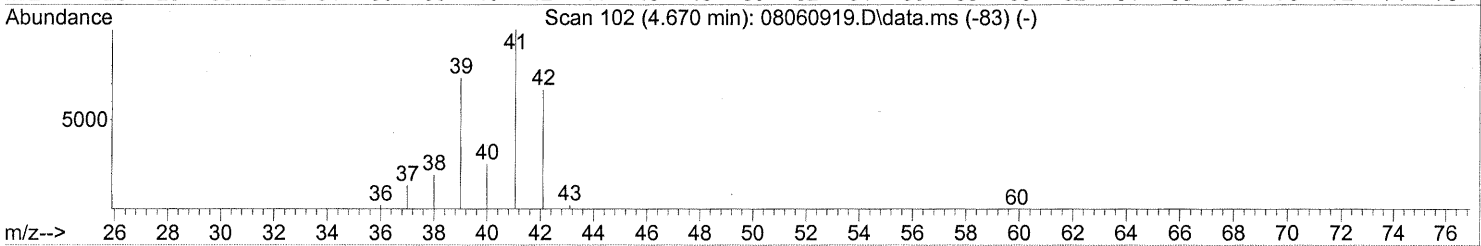
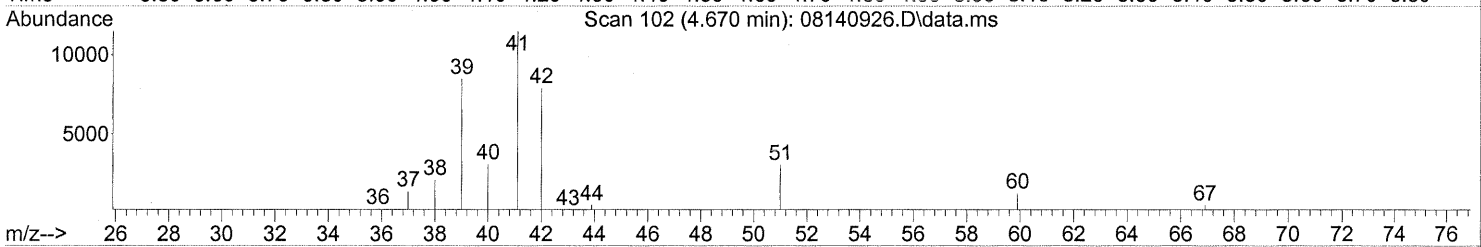
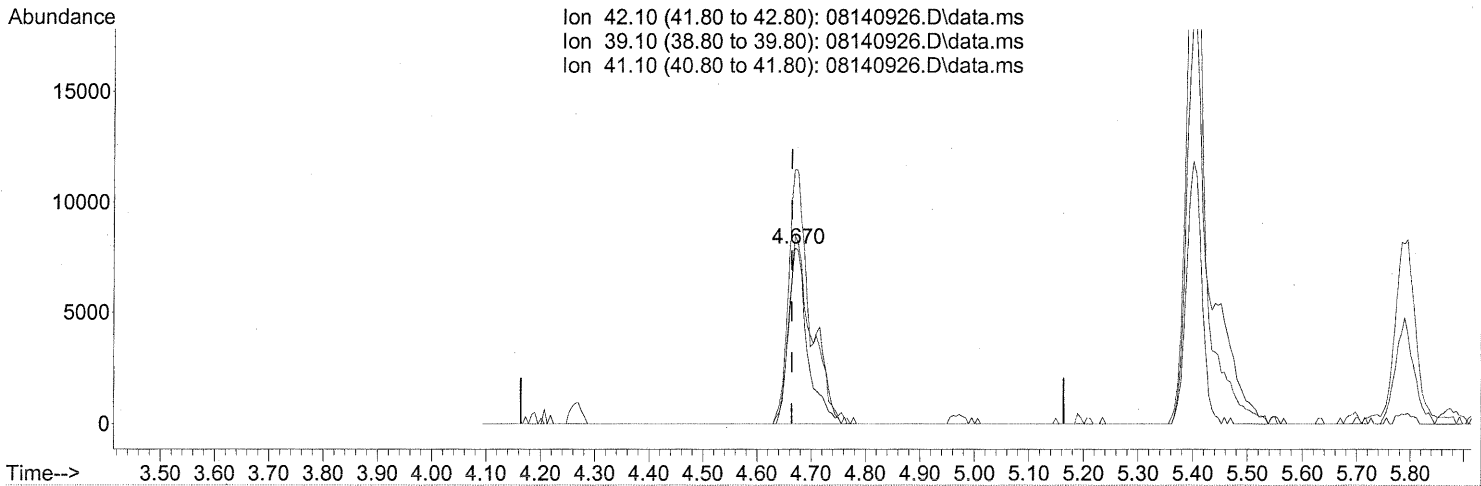
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	926	N.D.		
81) 2-Ethyltoluene	24.56	105	31882	0.666 ng		99
82) 1,2,4-Trimethylbenzene	24.83	105	124708	3.150 ng		88
83) n-Decane	24.94	57	45084	1.752 ng		98
84) Benzyl Chloride	25.00	91	3502	0.094 ng	#	57
85) 1,3-Dichlorobenzene	25.03	146	712	N.D.		up 8/20/09
86) 1,4-Dichlorobenzene	25.10	146	2217	0.104 ng	YES	95
87) sec-Butylbenzene	25.16	105	3908	0.073 ng	#	76
88) 4-Isopropyltoluene (p-...	25.35	119	53601	1.124 ng		97
89) 1,2,3-Trimethylbenzene	25.36	105	36296	0.900 ng		97
90) 1,2-Dichlorobenzene	25.53	146	803	N.D.		
91) d-Limonene	25.53	68	244669	14.535 ng		79
92) 1,2-Dibromo-3-Chloropr...	26.07	157	194	N.D.		
93) n-Undecane	26.46	57	31521	1.151 ng		79
94) 1,2,4-Trichlorobenzene	27.58	180	2047	0.157 ng	#	91
95) Naphthalene	27.73	128	80627	1.500 ng		98
96) n-Dodecane	27.69	57	19305	0.607 ng		88
97) Hexachlorobutadiene	28.14	225	1127	0.136 ng		97
98) Cyclohexanone	22.32	55	11873	0.675 ng	#	83
99) tert-Butylbenzene	25.27	119	7273	0.190 ng		100
100) n-Butylbenzene	25.86	91	18936	0.429 ng	#	58

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140926.D\data.ms

(2) Propene (T)

4.670min (+0.006) 1.40ng *M*

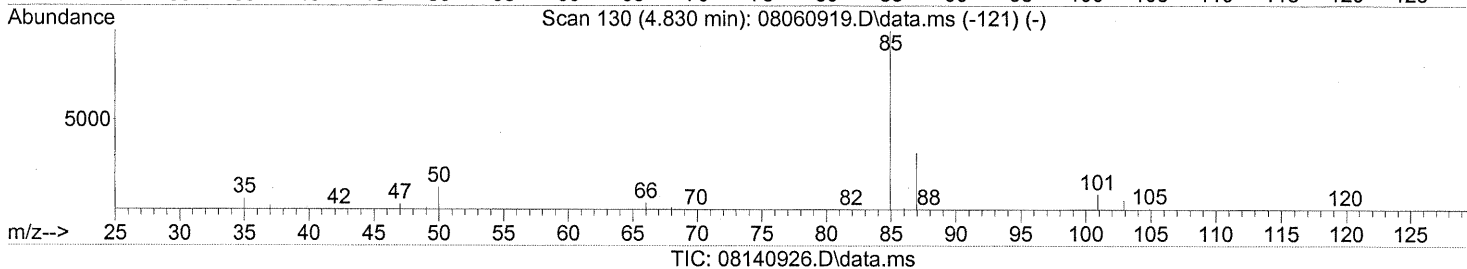
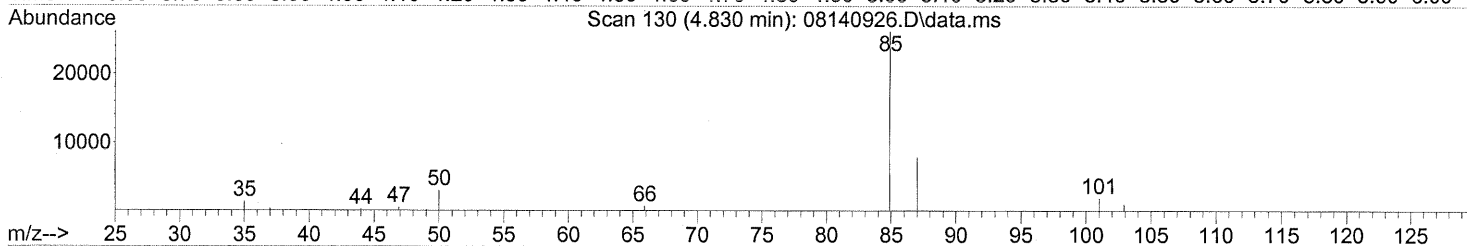
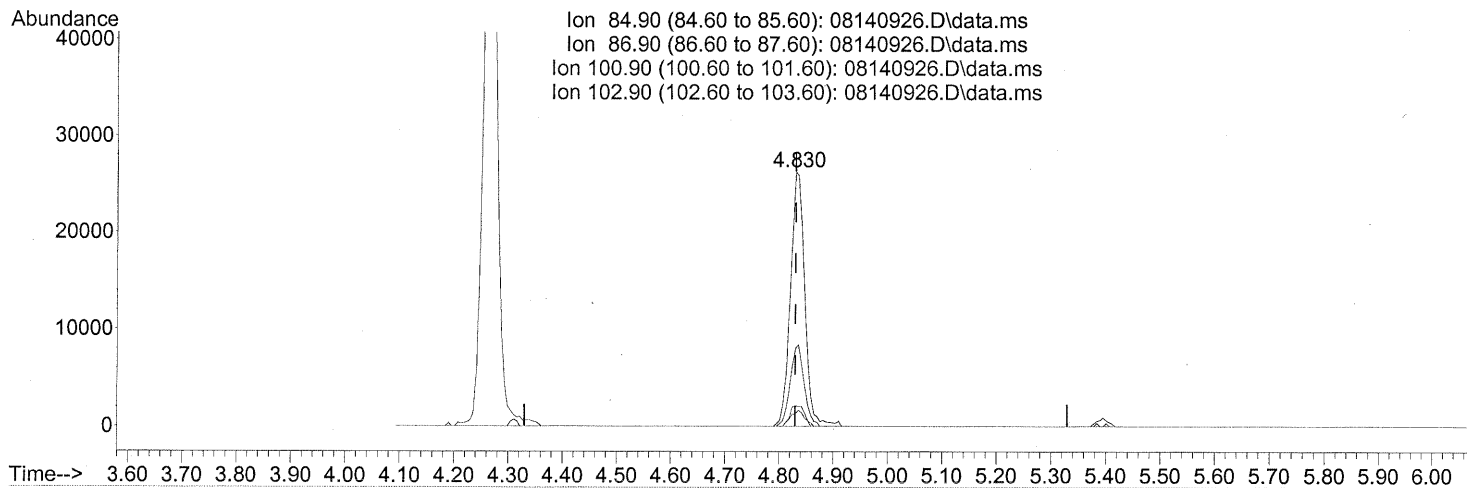
response 19175

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	133.40#
41.10	150.20	165.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
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Quant Time: Aug 15 07:22:40 2009
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(3) Dichlorodifluoromethane (CFC 12) (T)

4.830min (+0.000) 2.15ng

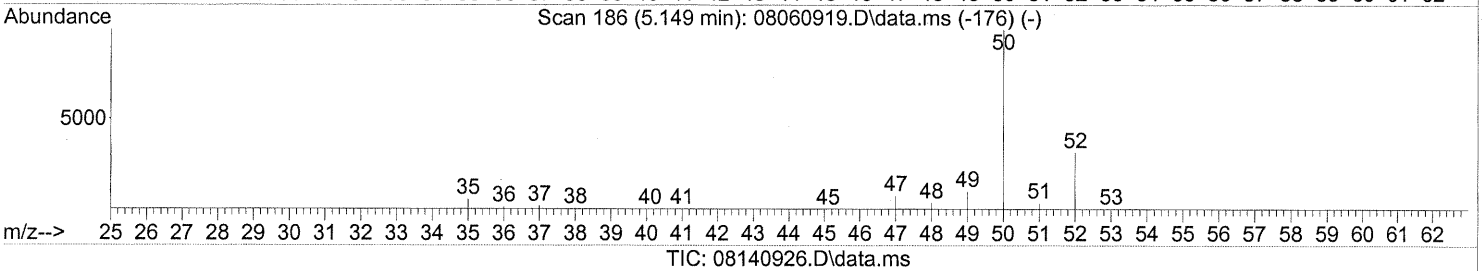
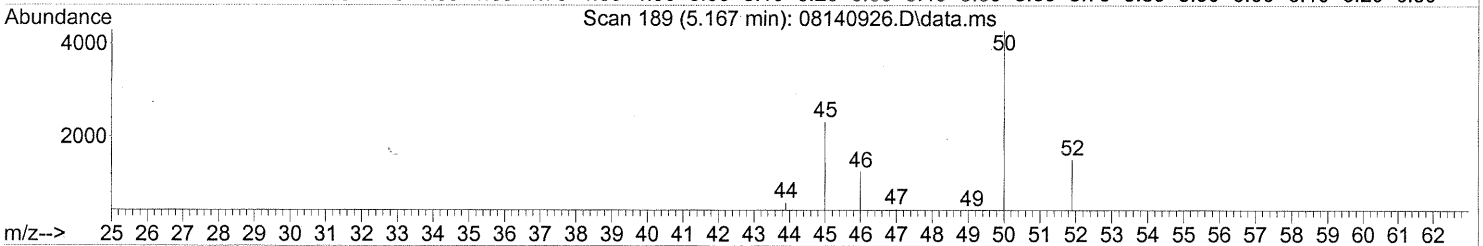
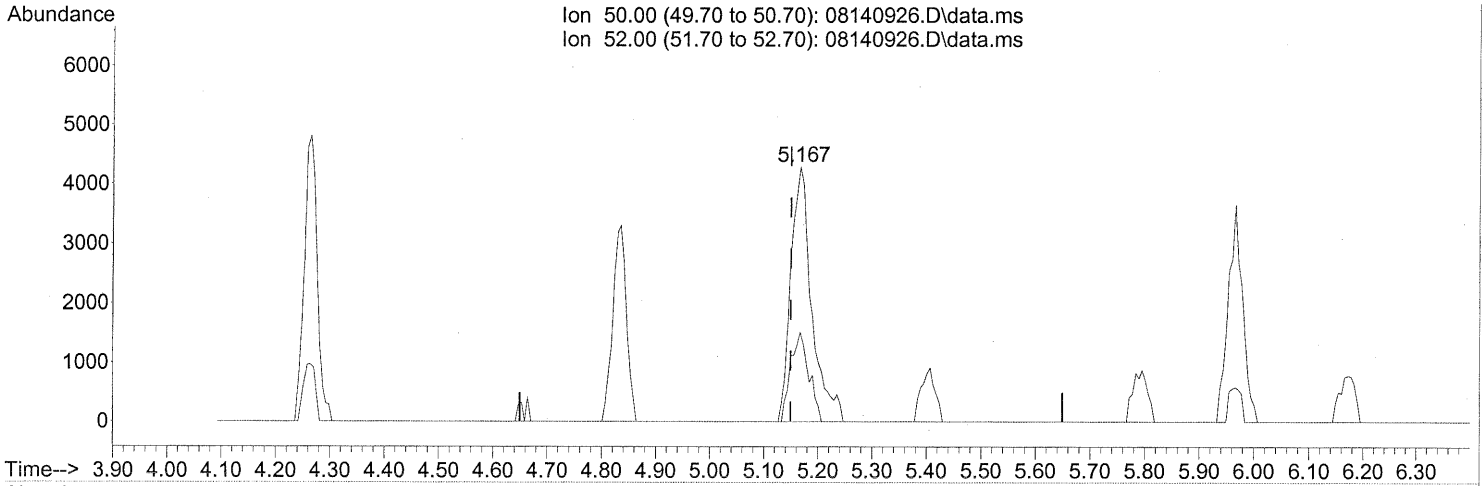
response 48189

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	30.96
100.90	8.80	8.25
102.90	5.20	5.76

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
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Quant Time: Aug 15 07:22:40 2009
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 Response via : Initial Calibration



(4) Chloromethane (T)

5.167min (+0.017) 0.76ng

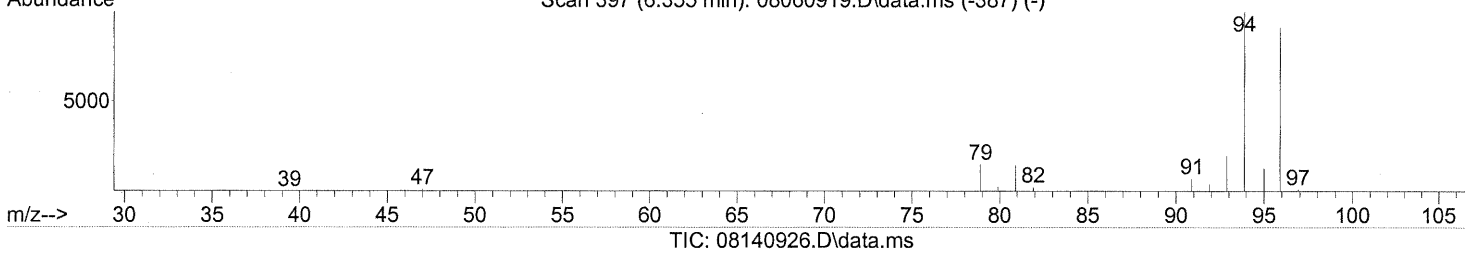
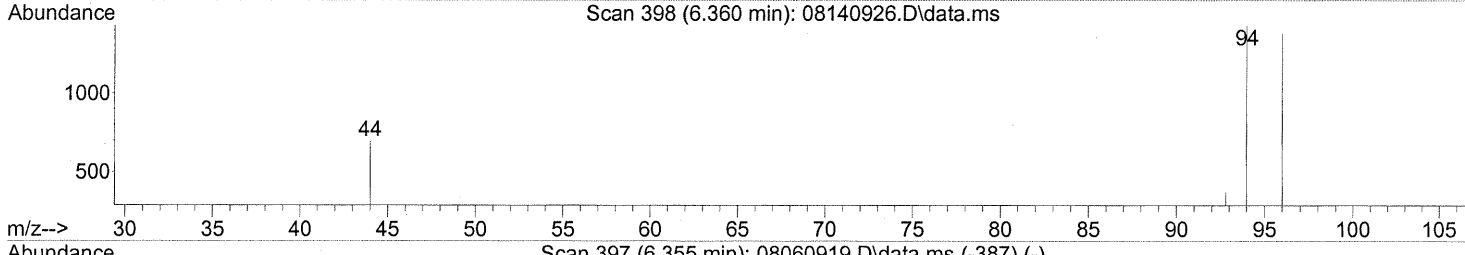
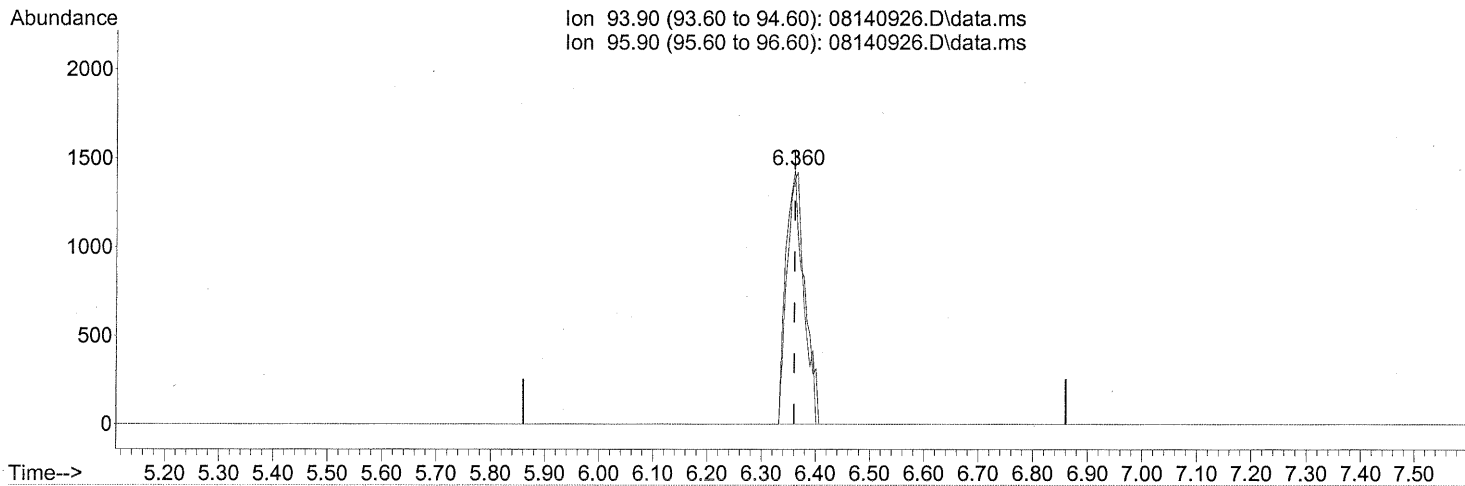
response 11507

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	30.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



(8) Bromomethane (T)

6.360min (+0.000) 0.39ng

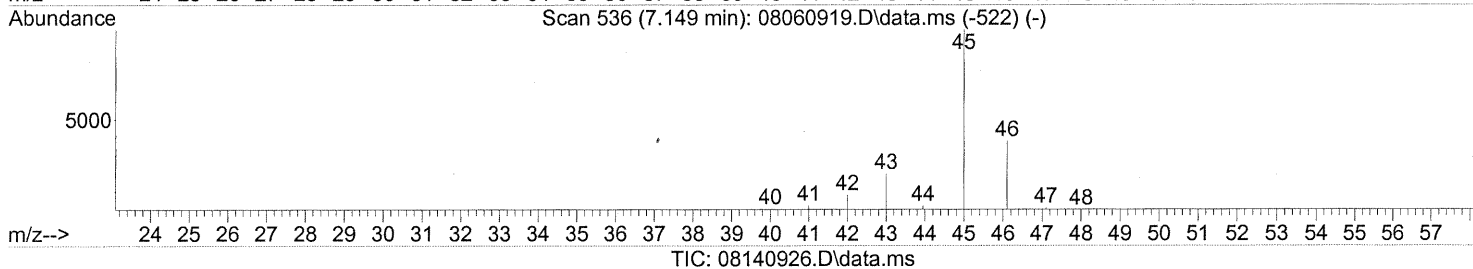
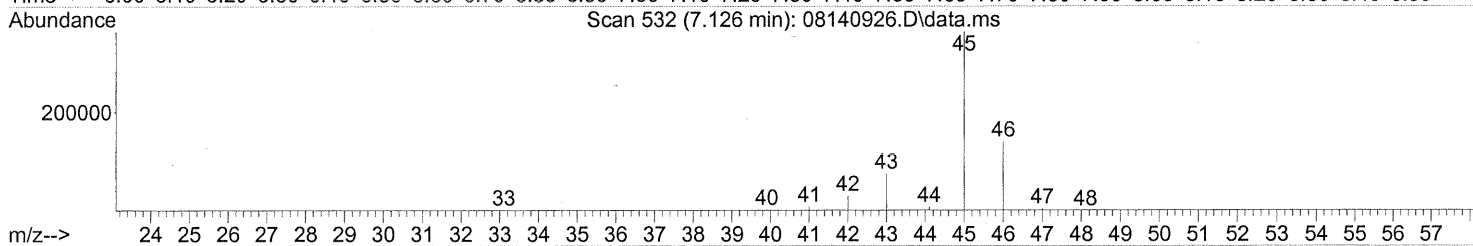
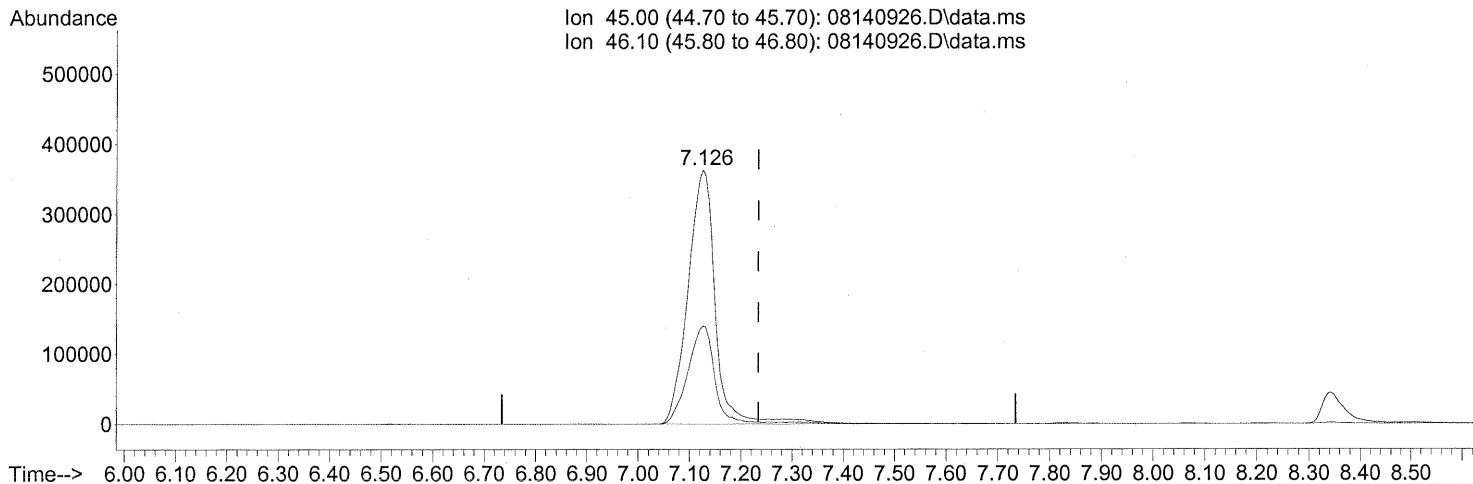
response 3394

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	91.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

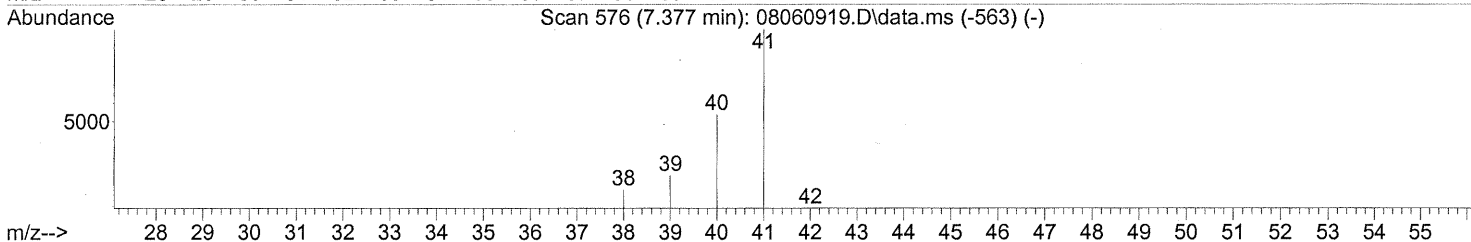
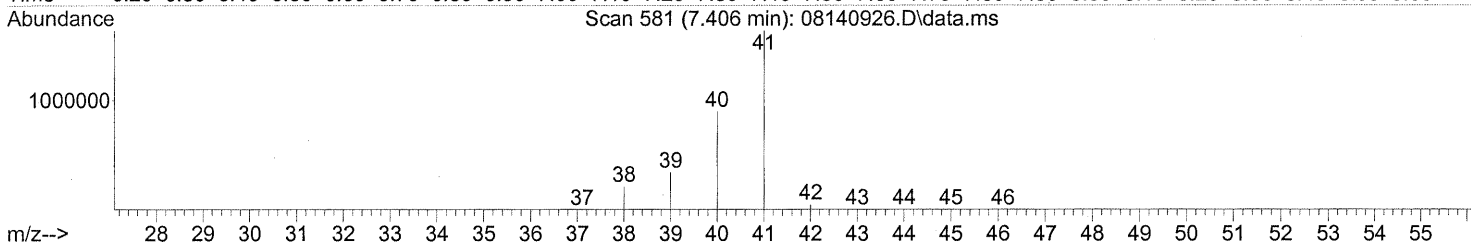
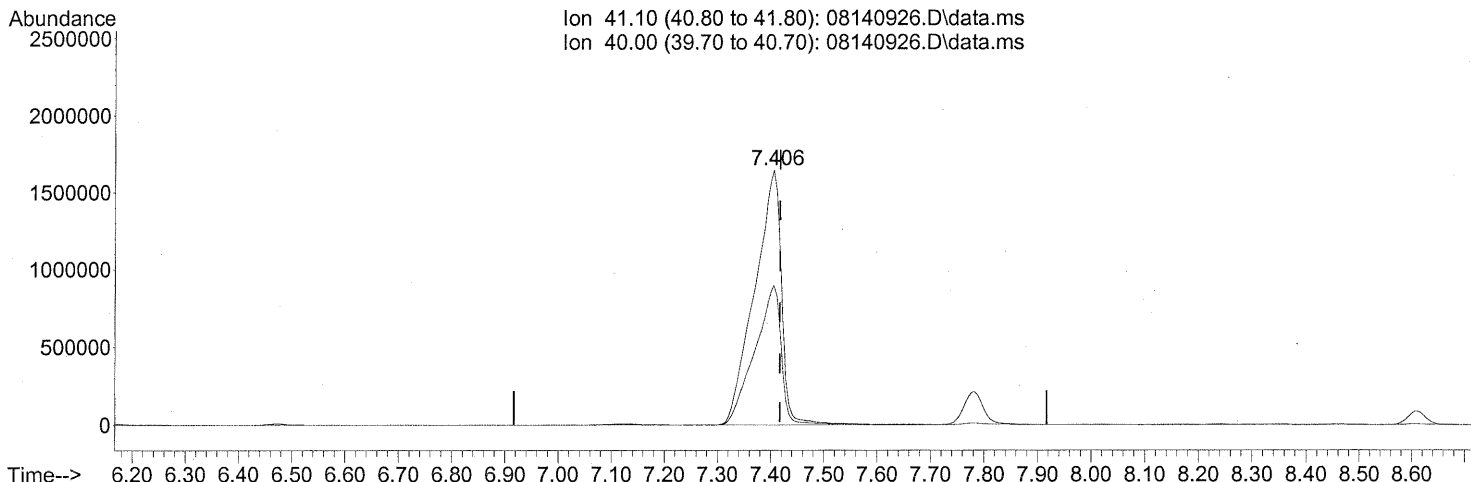
7.126min (-0.108) 155.07ng
 response 1348838

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
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 Operator : WA
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 Misc : Env. Health & Engineering 100218
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 Response via : Initial Calibration



(11) Acetonitrile (T)

7.406min (-0.011) 227.08ng *E*

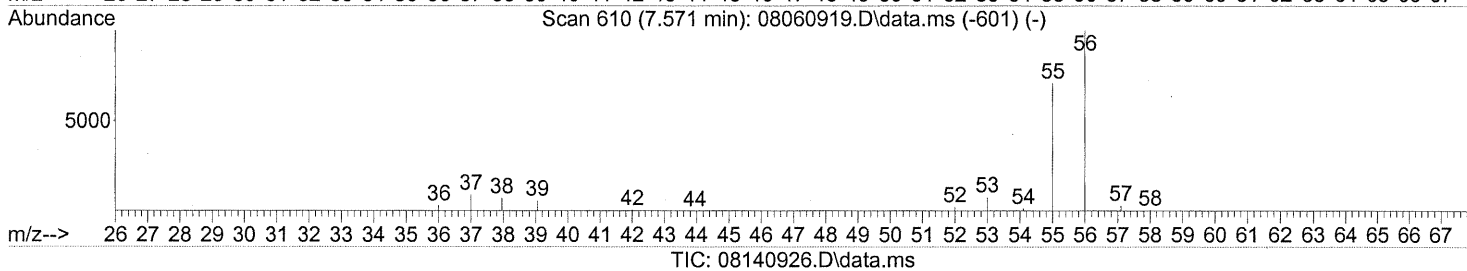
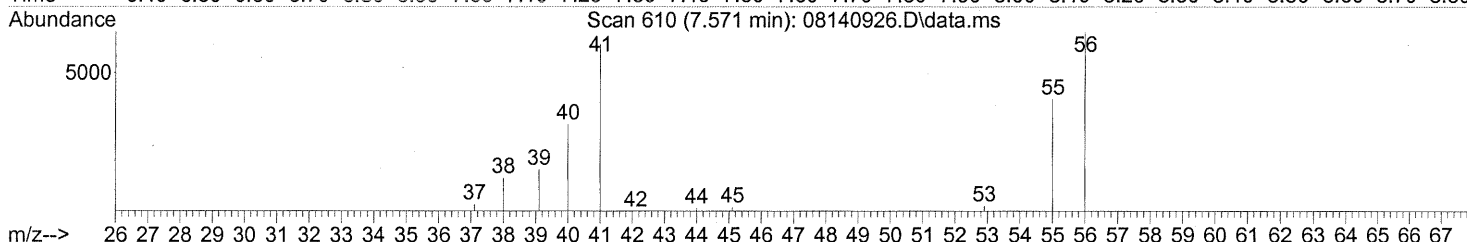
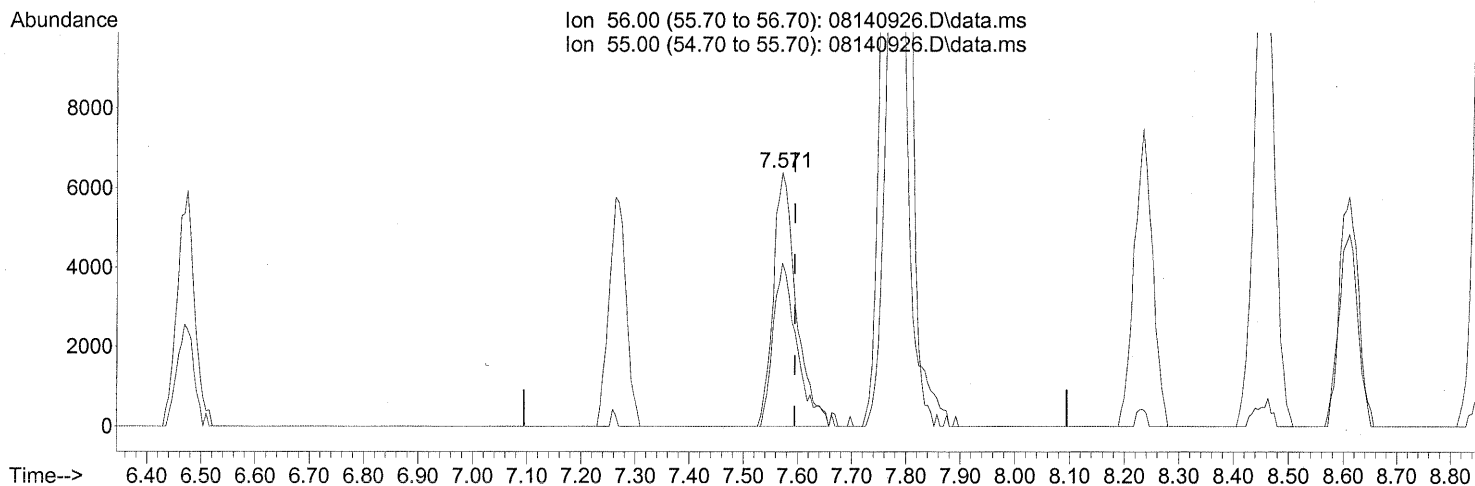
response 5784635

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	54.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
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 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.571min (-0.023) 2.82ng

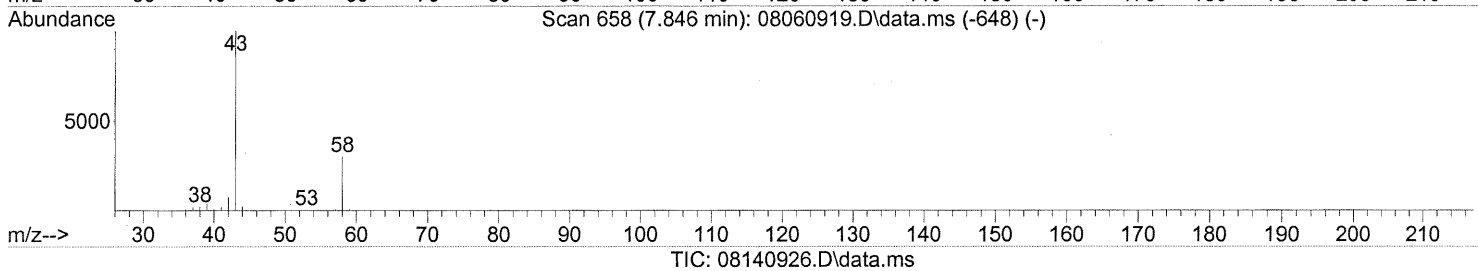
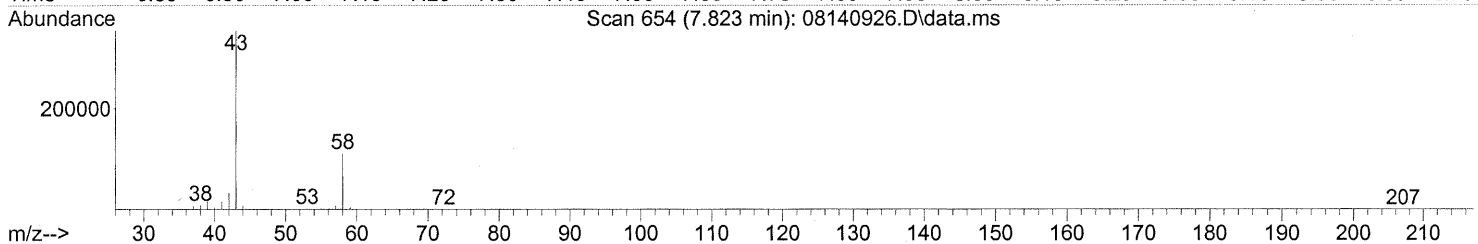
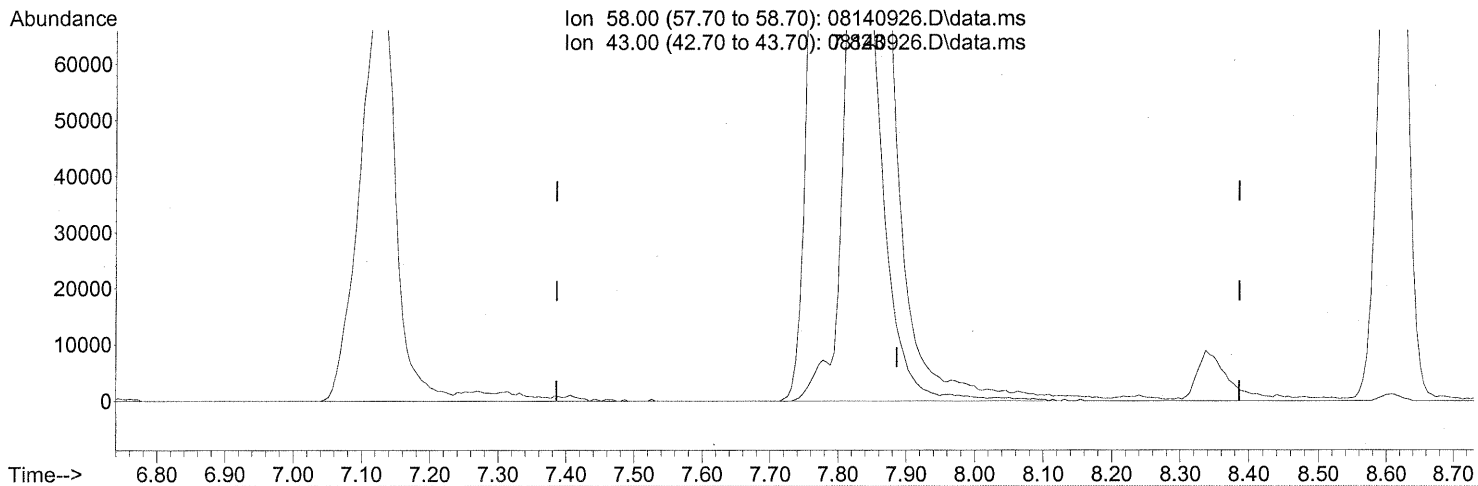
response 18669

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	67.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)
 7.823min (-0.063) 44.72ng

SM

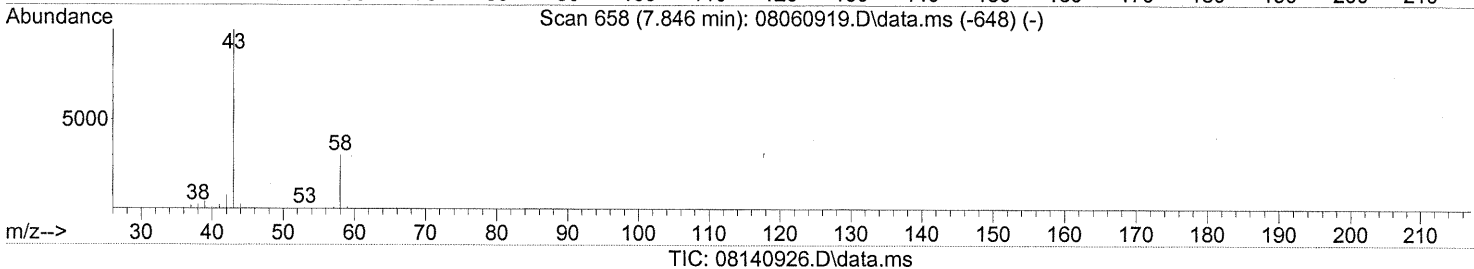
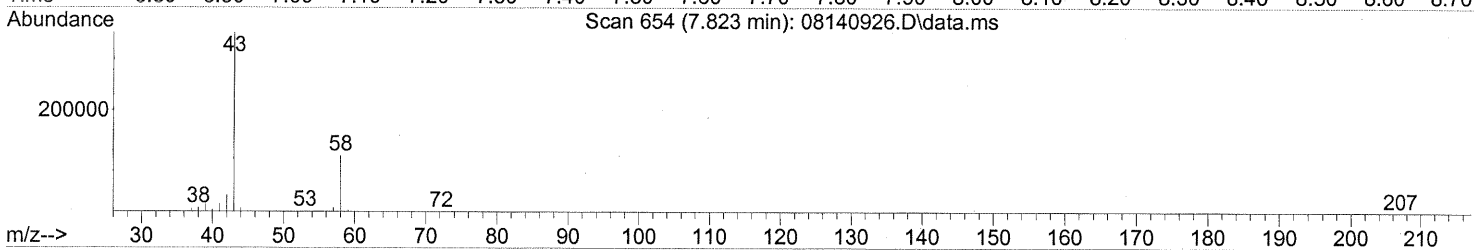
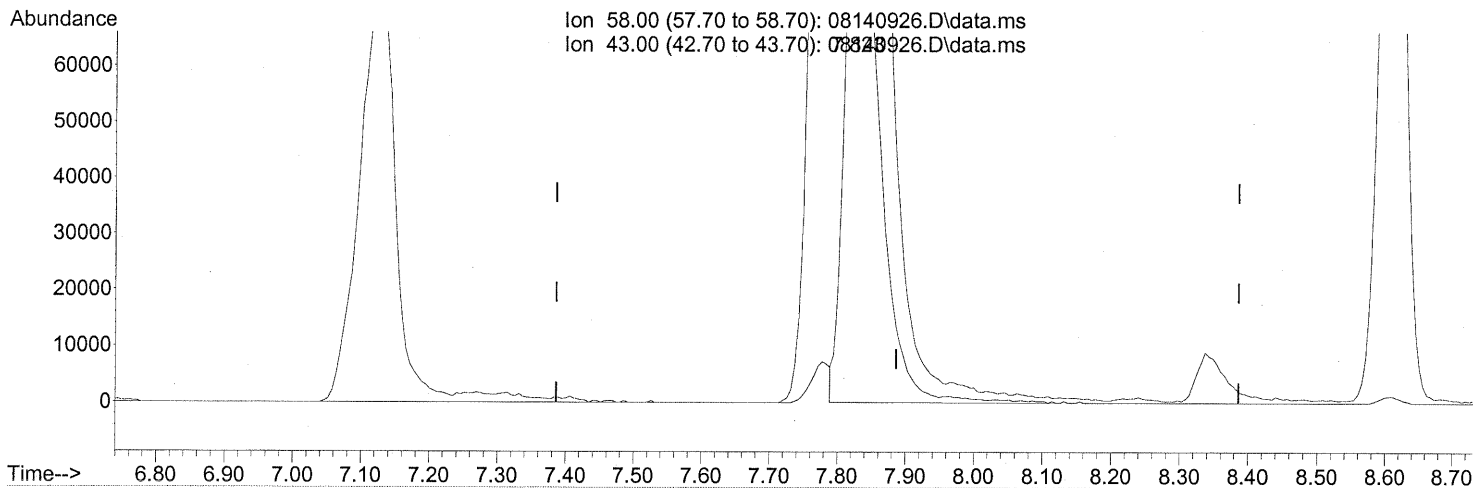
response 367026

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	309.51#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)
 7.823min (-0.063) 42.99ng m
 response 352844

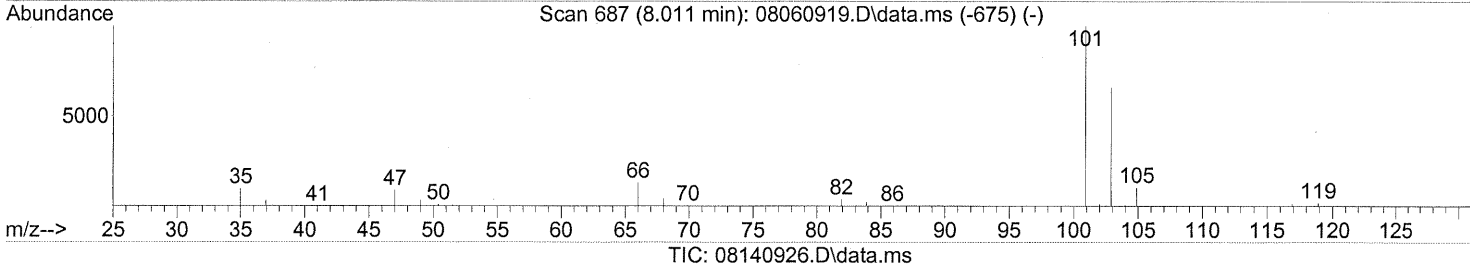
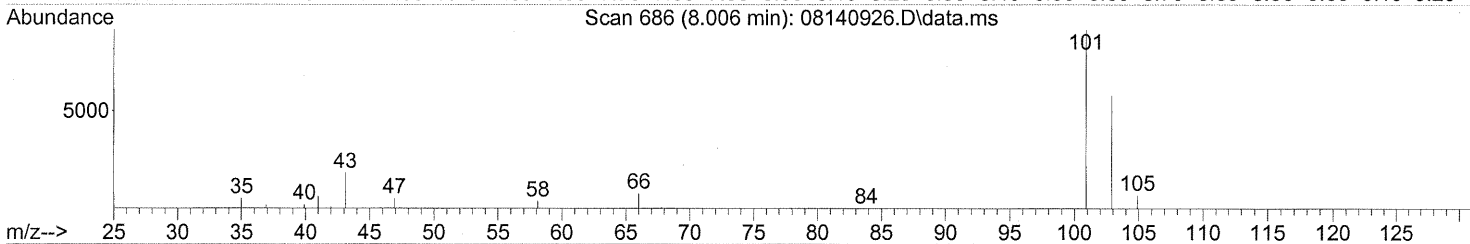
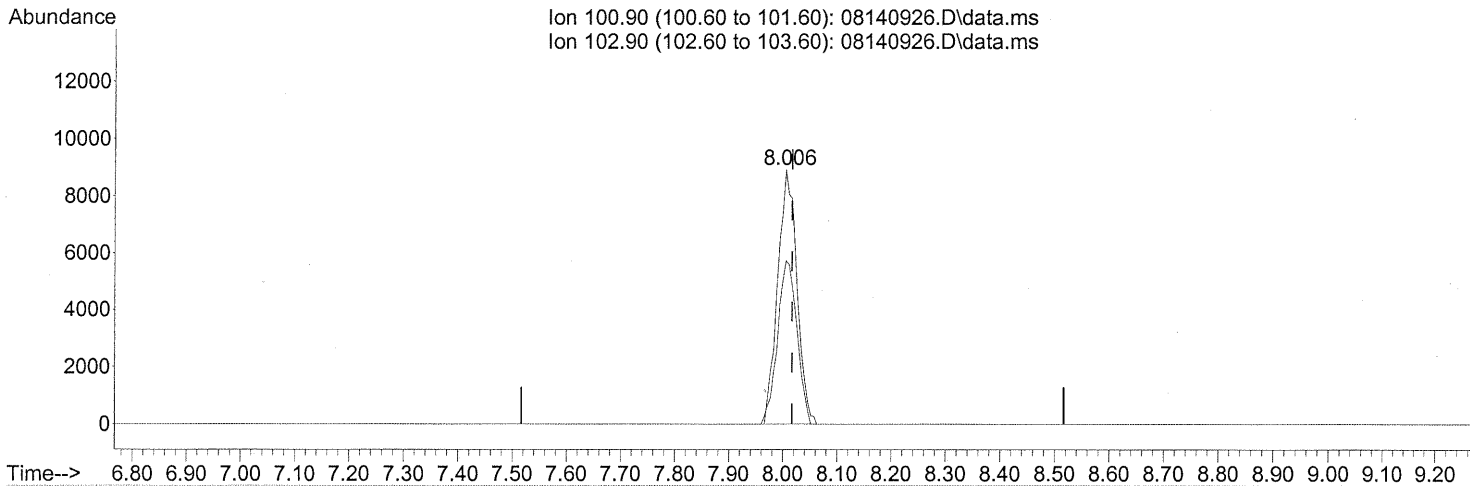
Ion	Exp%	Act%
58.00	100	100
43.00	340.40	321.95
0.00	0.00	0.00
0.00	0.00	0.00

*SH → IC
 m 8/20/09
 Com 8/21/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
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 ALS Vial : 9 Sample Multiplier: 1

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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.006min (-0.011) 1.09ng

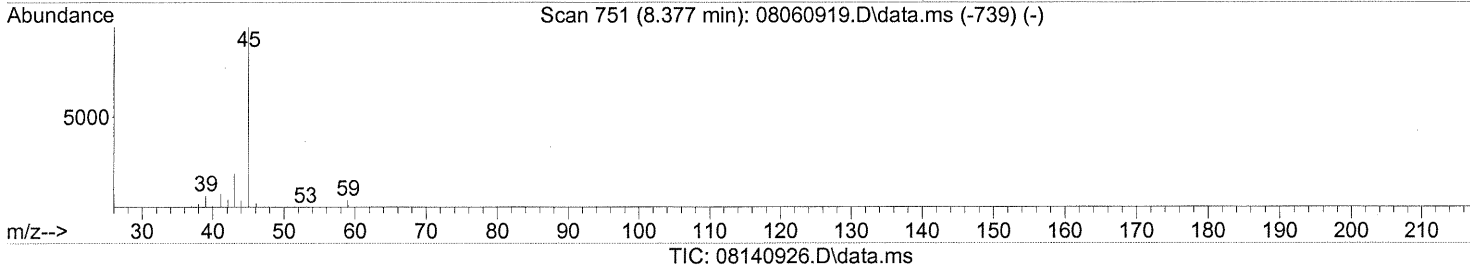
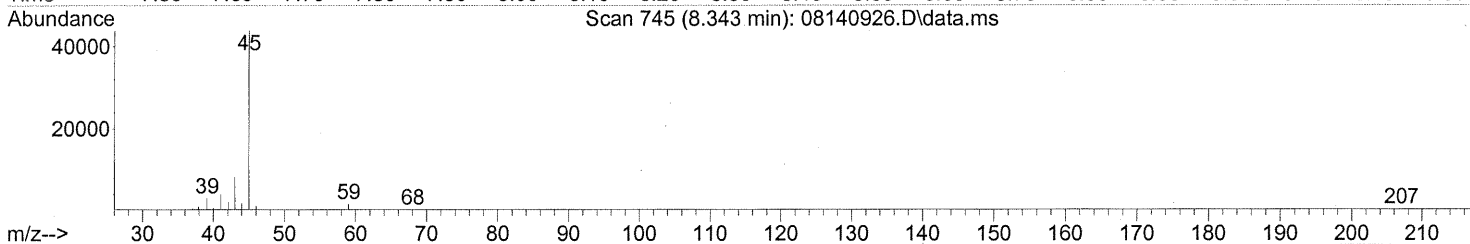
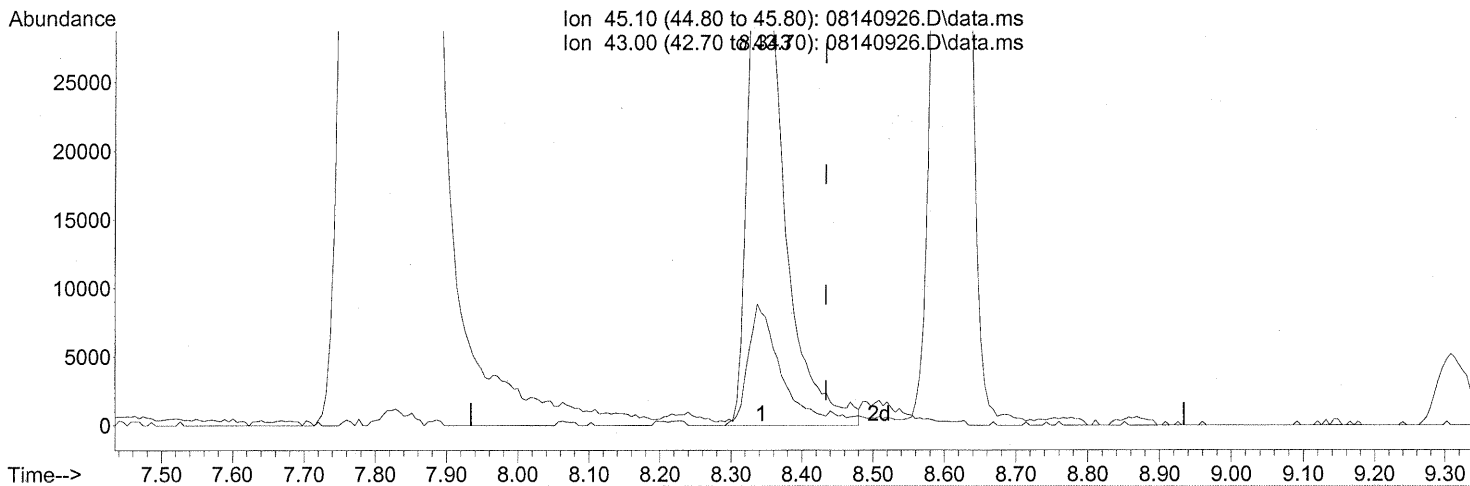
response 22010

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 ALS Vial : 9 Sample Multiplier: 1

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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(15) 2-Propanol (Isopropanol) (T)

8.343min (-0.091) 4.21ng

PT

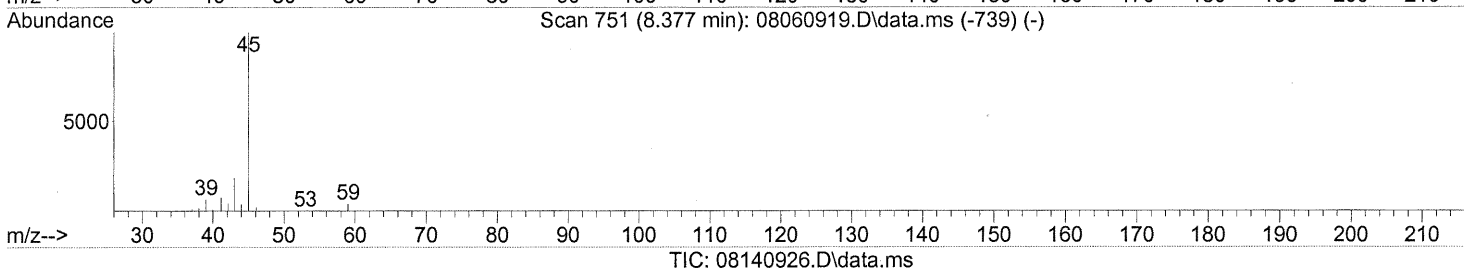
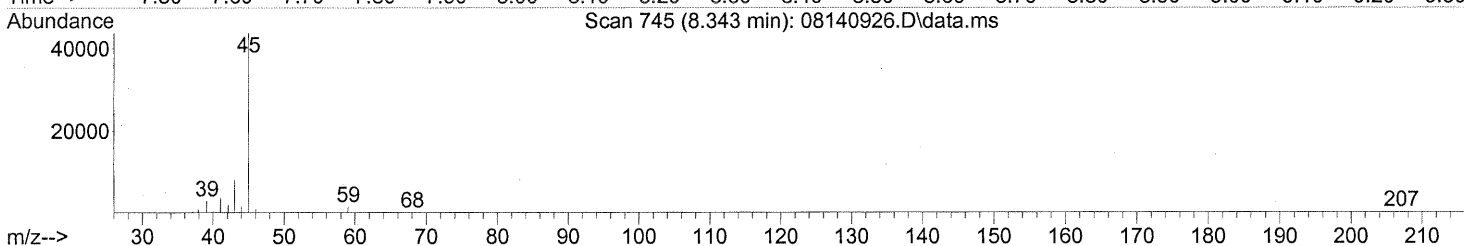
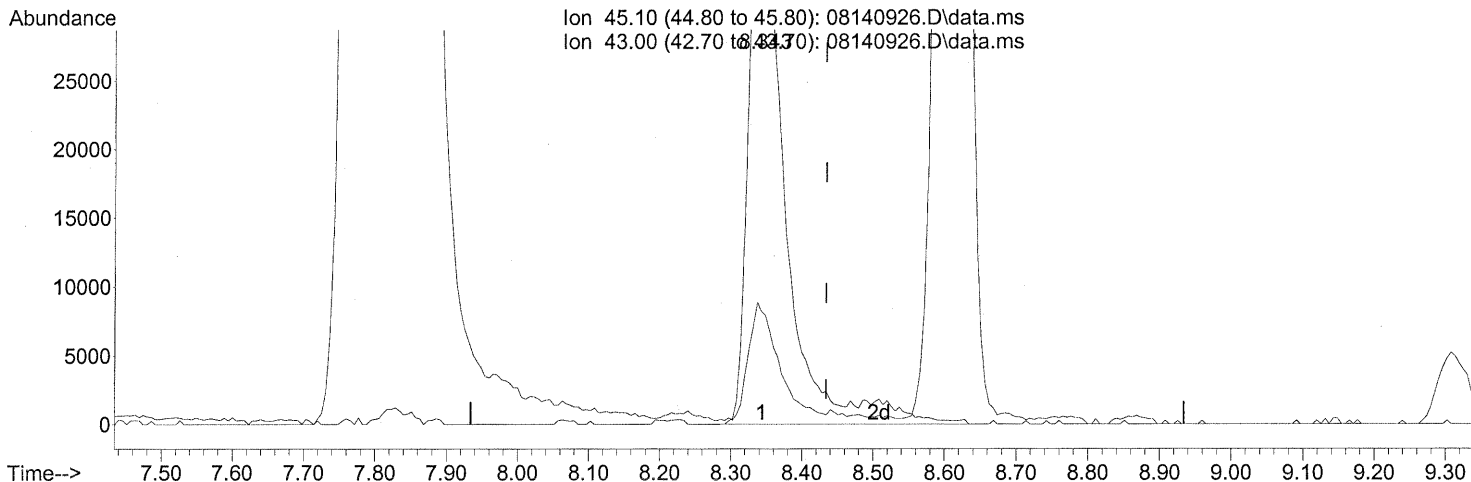
response 135778

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	21.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
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 Acq On : 14 Aug 2009 23:33
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 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.343min (-0.091) 4.45ng m

response 143374

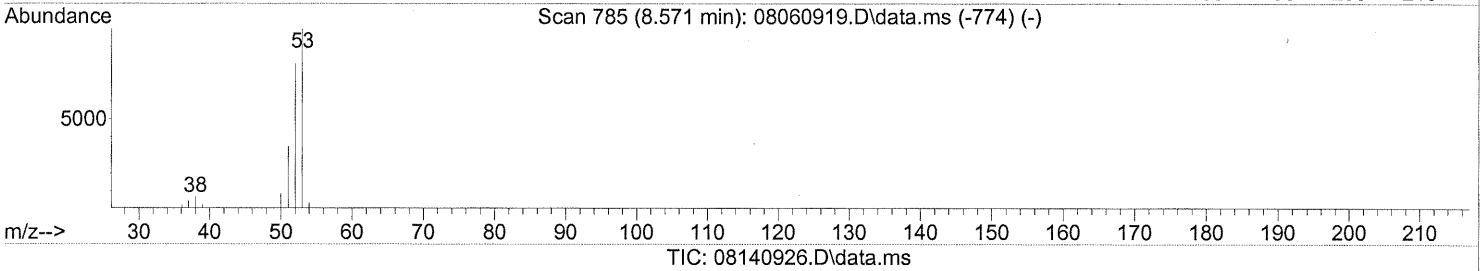
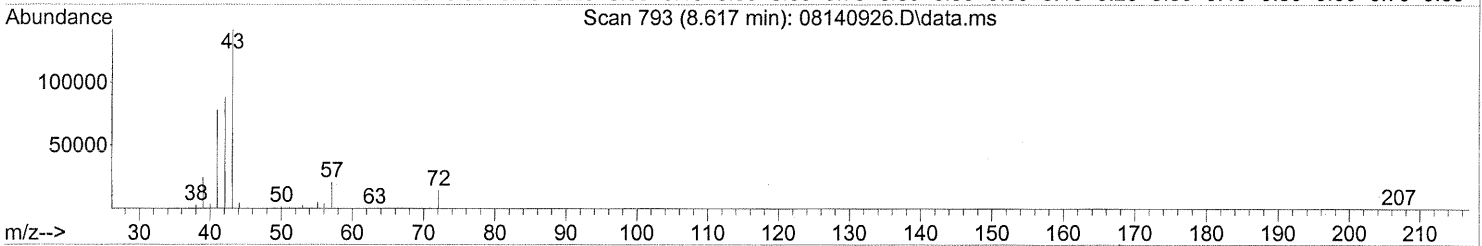
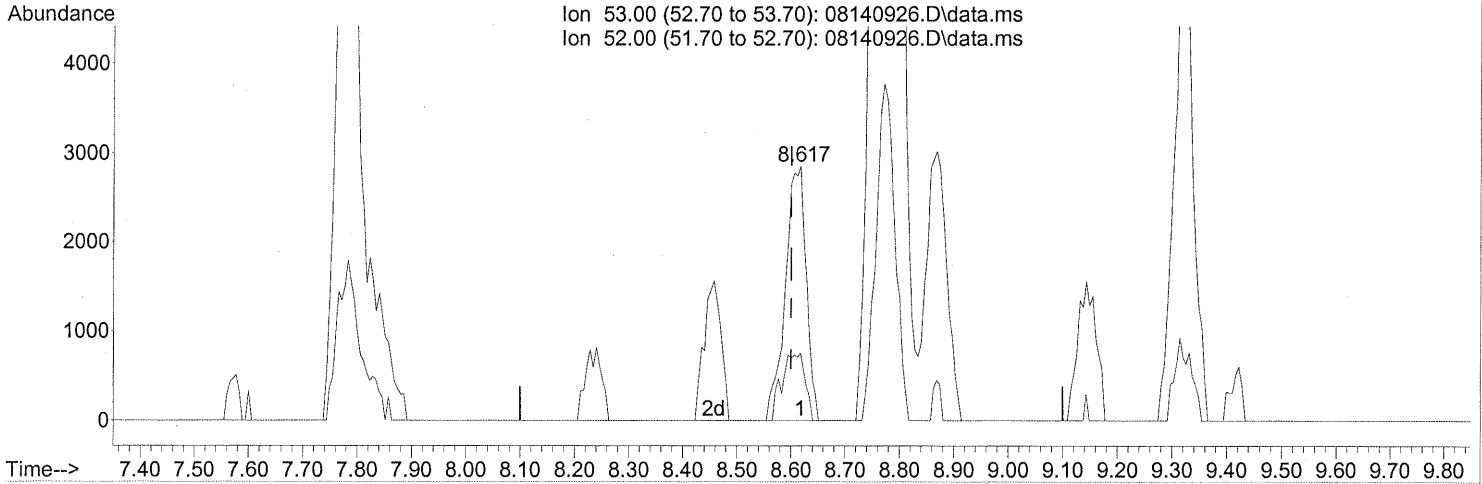
Ion	Exp%	Act%
45.10	100	100
43.00	19.00	20.26
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
in 8/20/09
Com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
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Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.617min (+0.017) 0.52ng

response 7645

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	28.99#
0.00	0.00	0.00
0.00	0.00	0.00

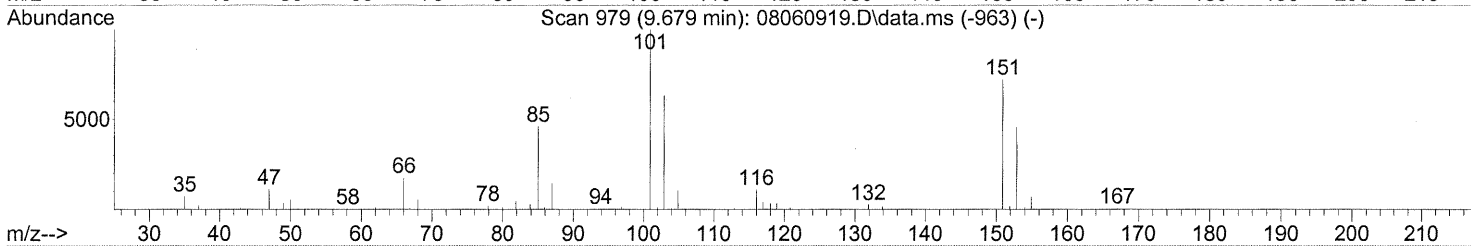
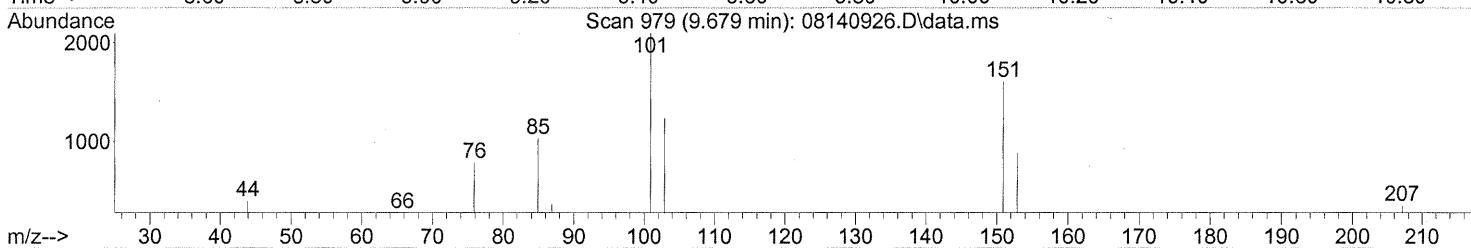
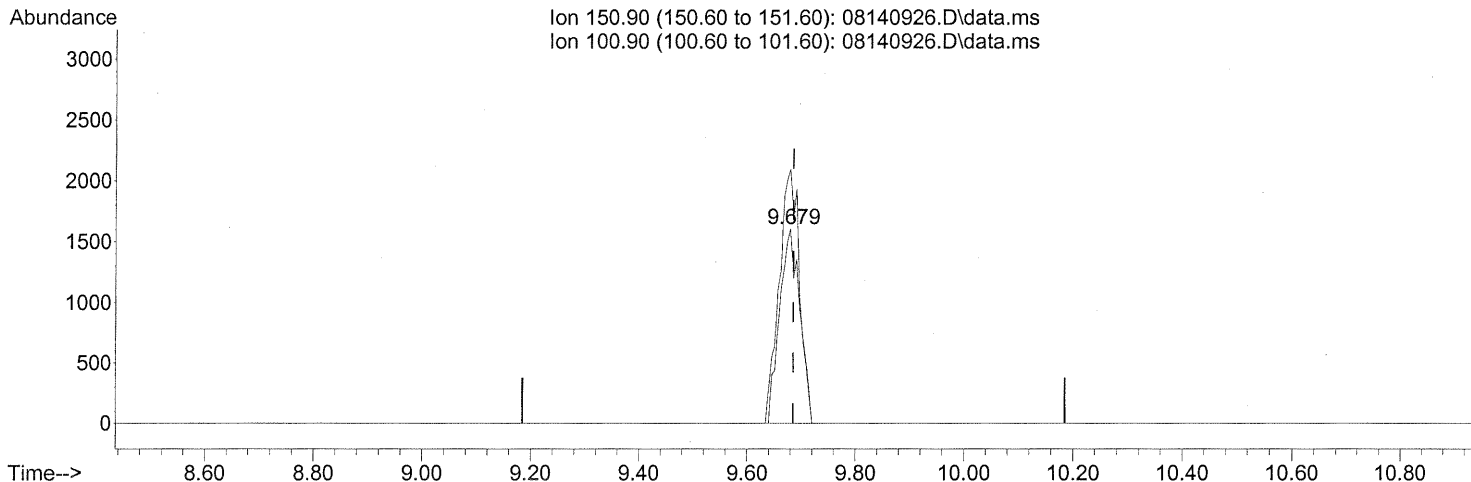
FP W 8/20/09

com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140926.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.56ng

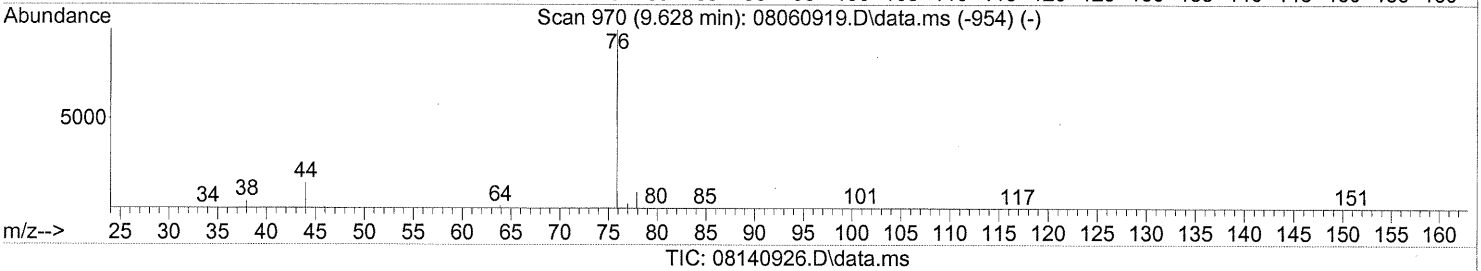
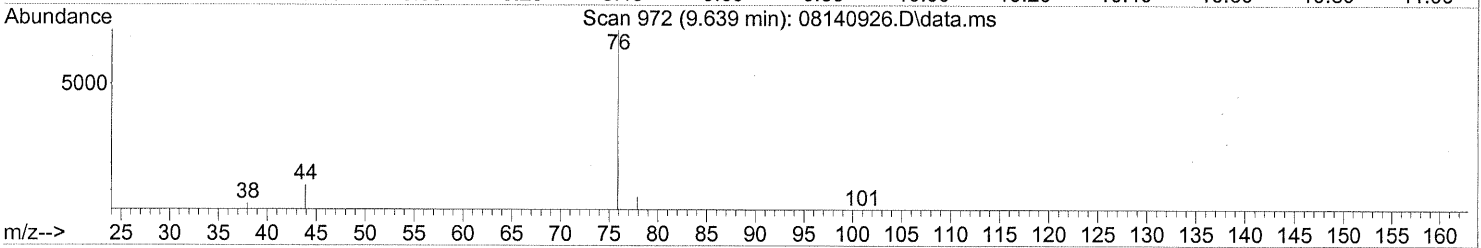
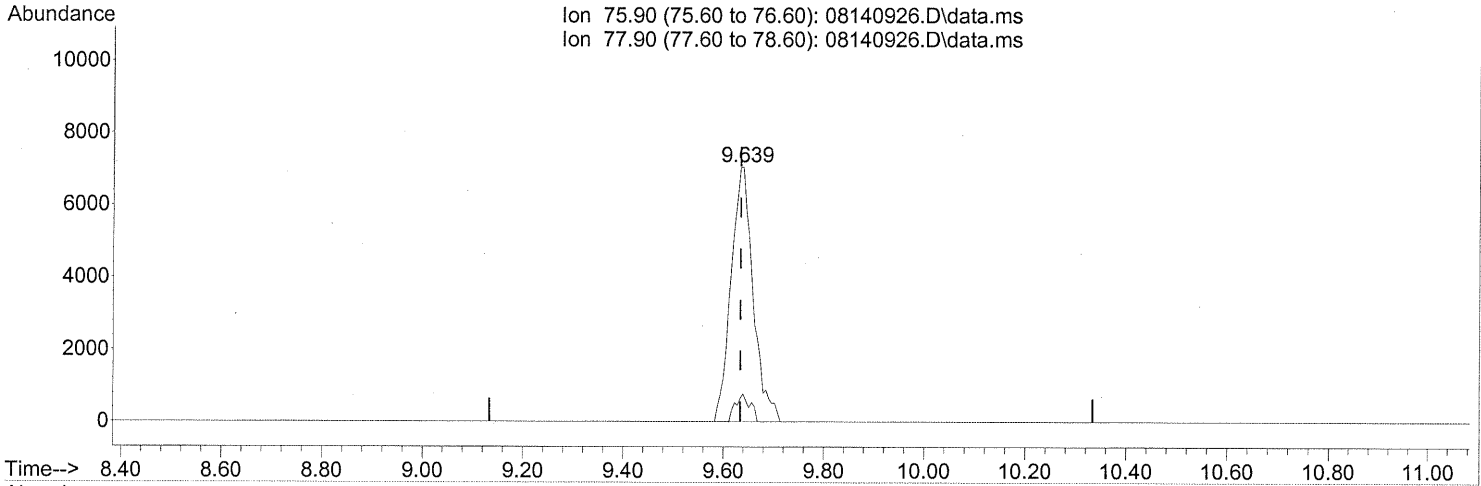
response 4161

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	131.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.639min (+0.006) 0.56ng

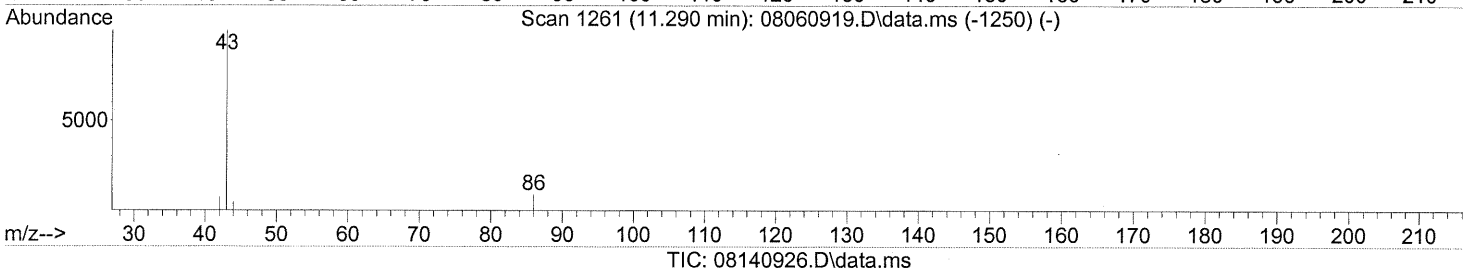
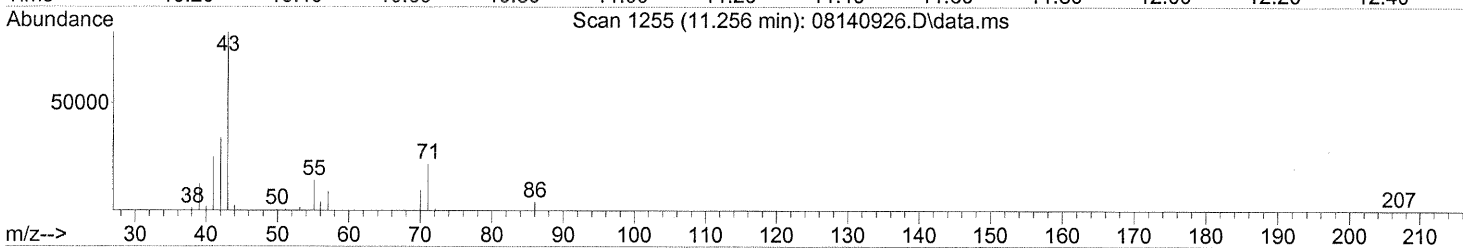
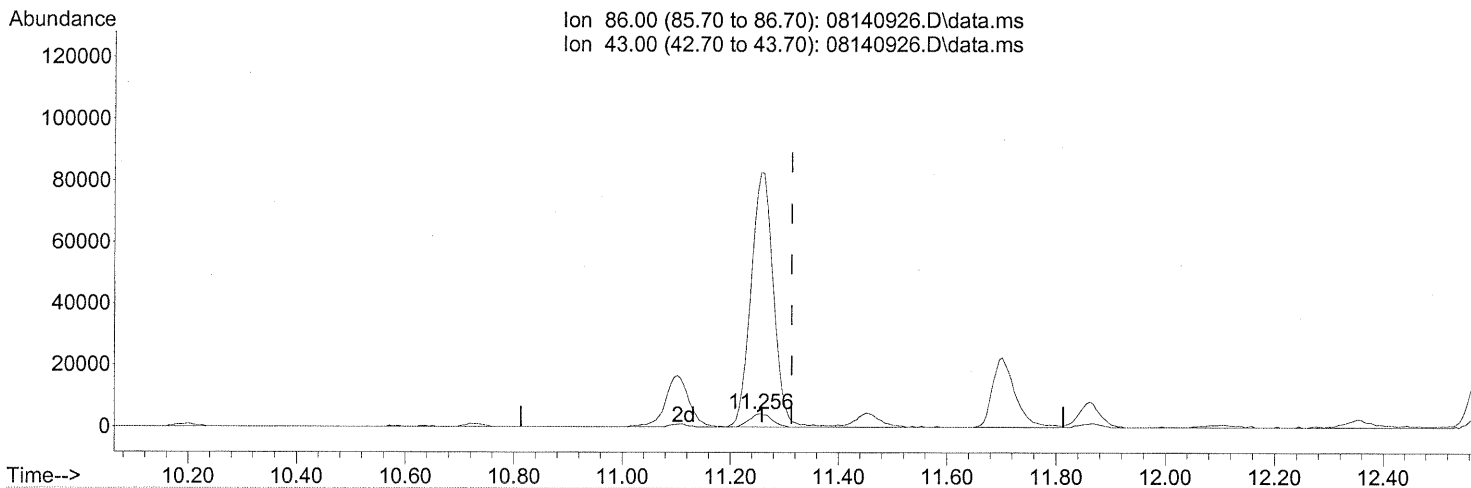
response 21718

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	7.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.256min (-0.057) 7.22ng

response 12057

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1966.26#
0.00	0.00	0.00
0.00	0.00	0.00

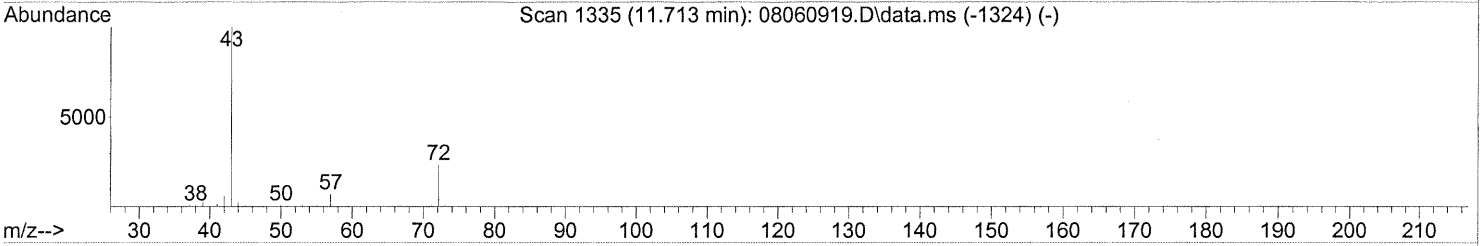
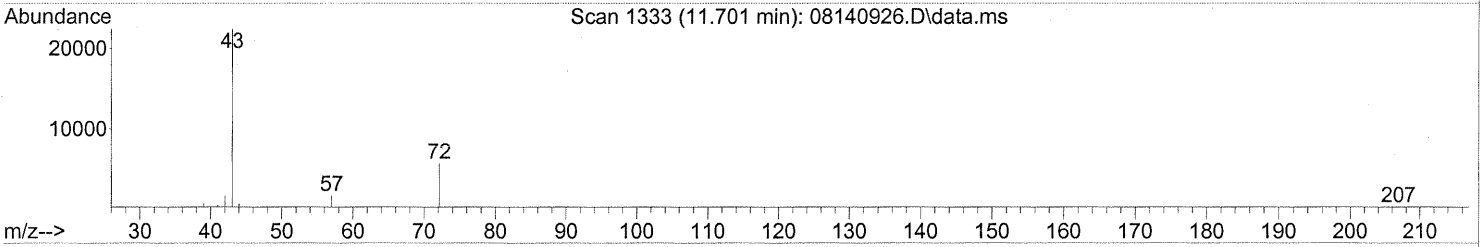
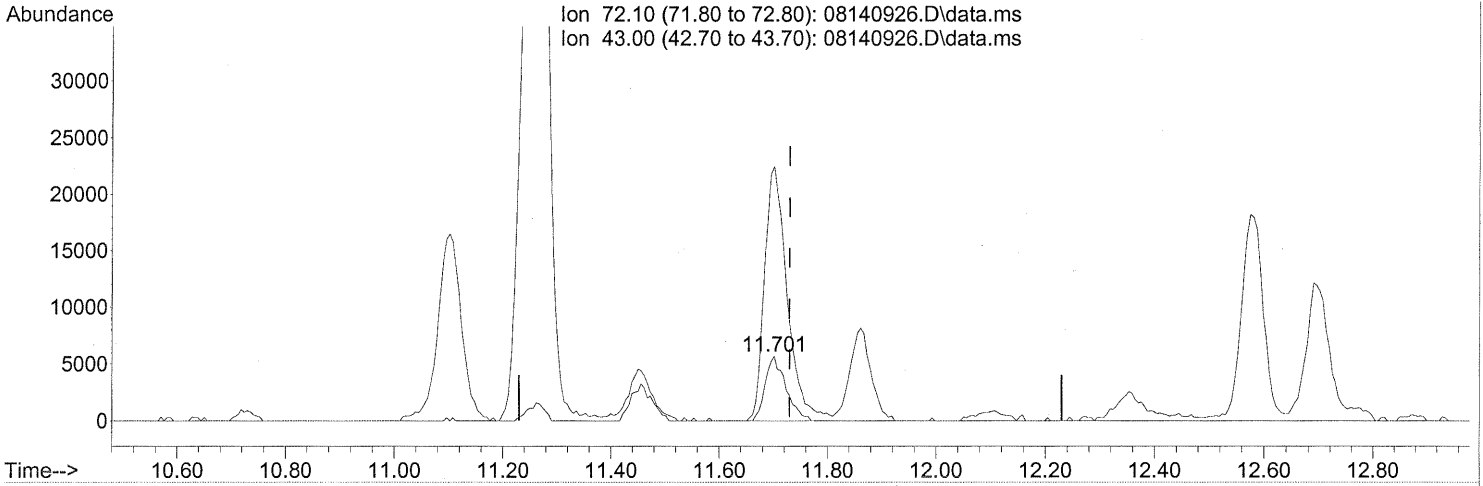
FP in 8/20/09

com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.701min (-0.028) 2.03ng

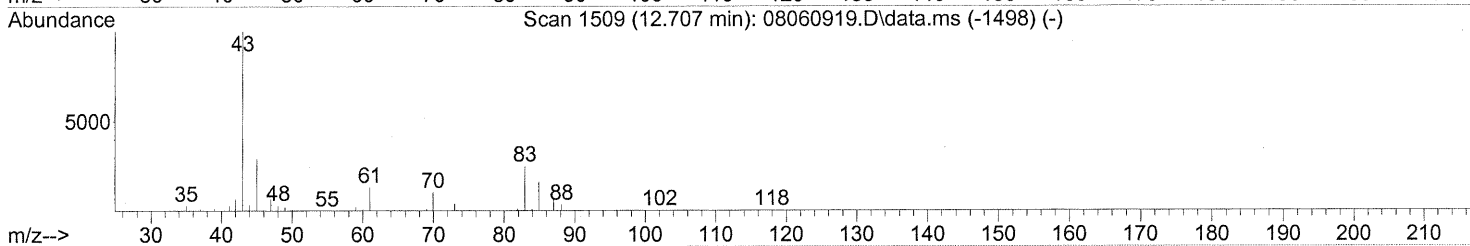
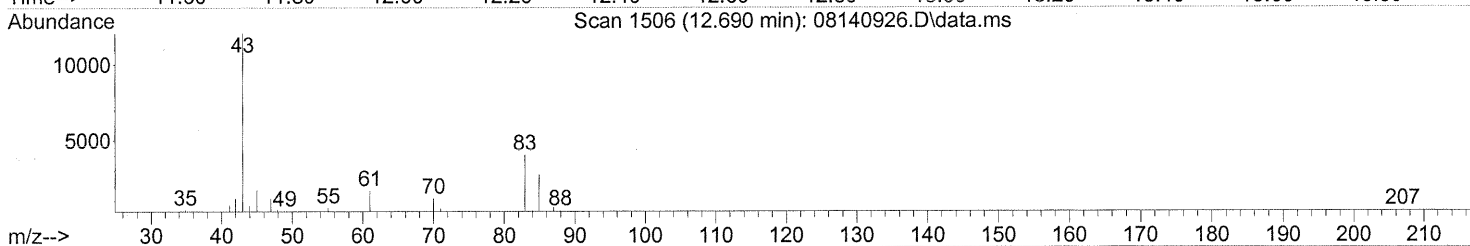
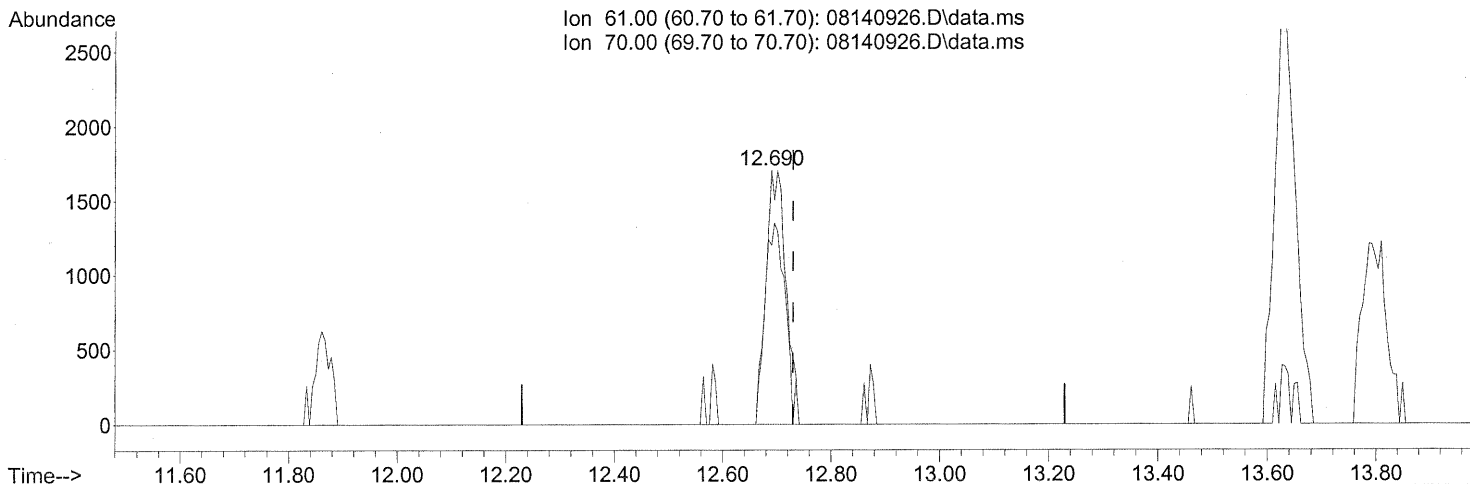
response 15020

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	435.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140926.D\data.ms

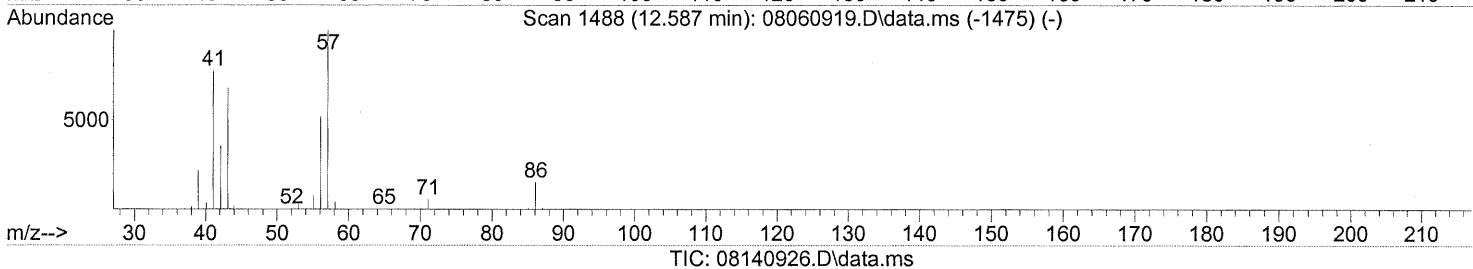
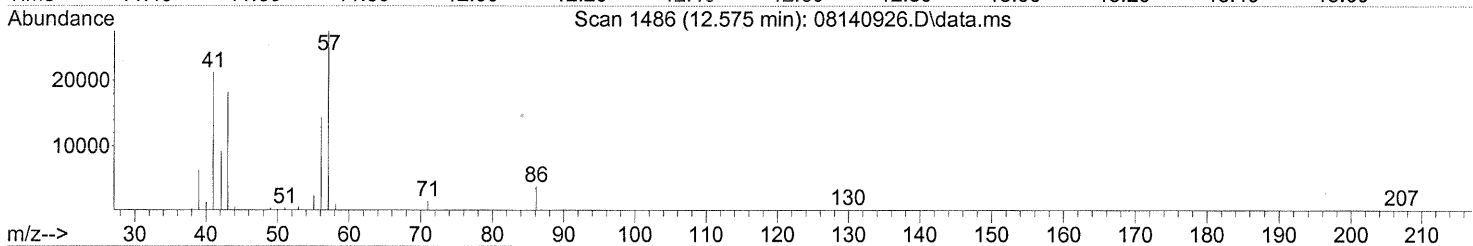
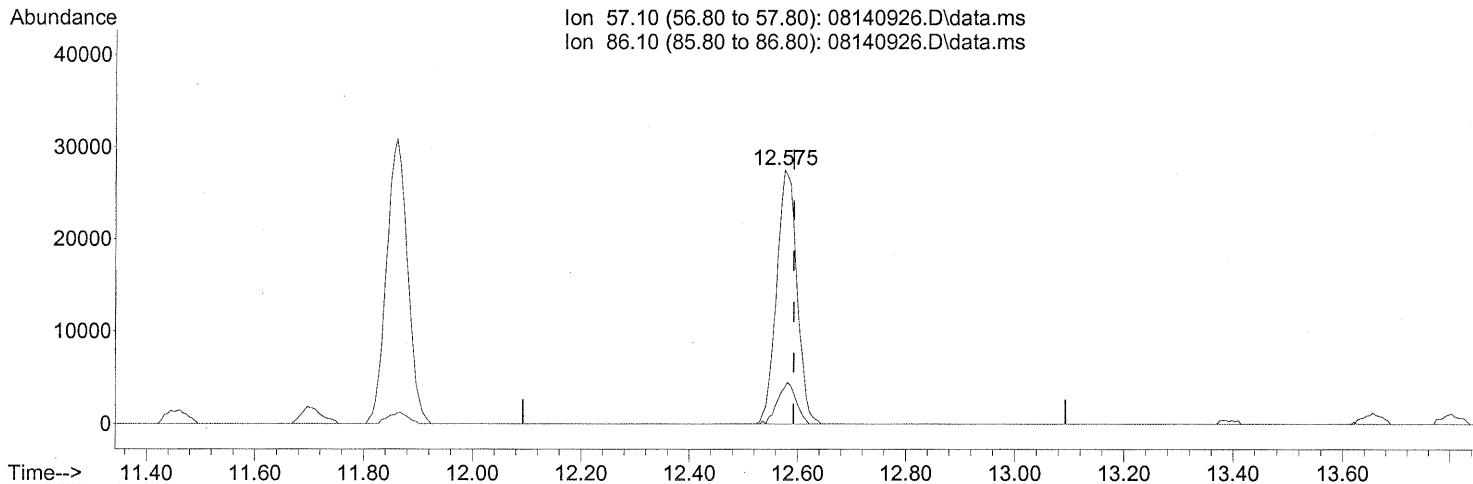
(30) Ethyl Acetate (T)
 12.690min (-0.040) 1.14ng
 response 4399

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	80.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(31) n-Hexane (T)

12.575min (-0.017) 3.62ng

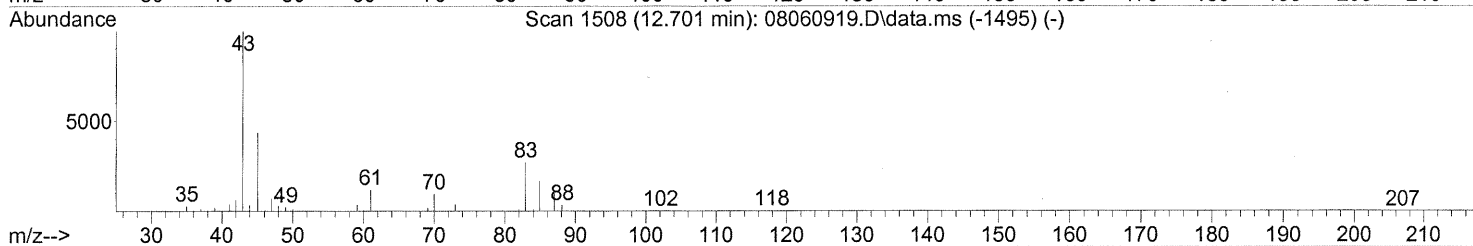
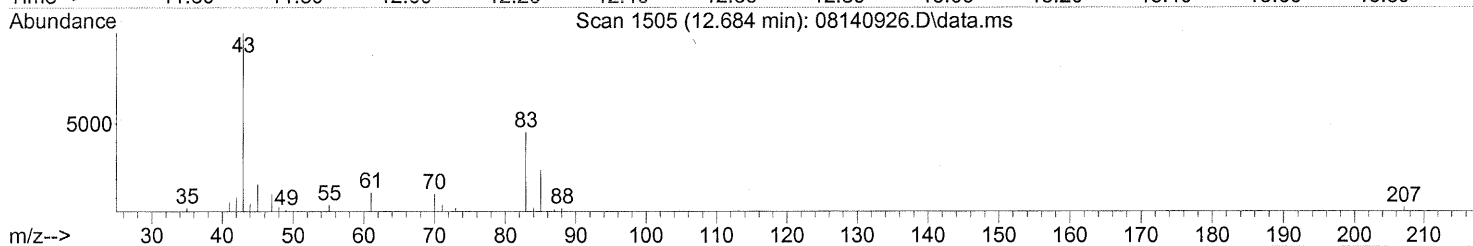
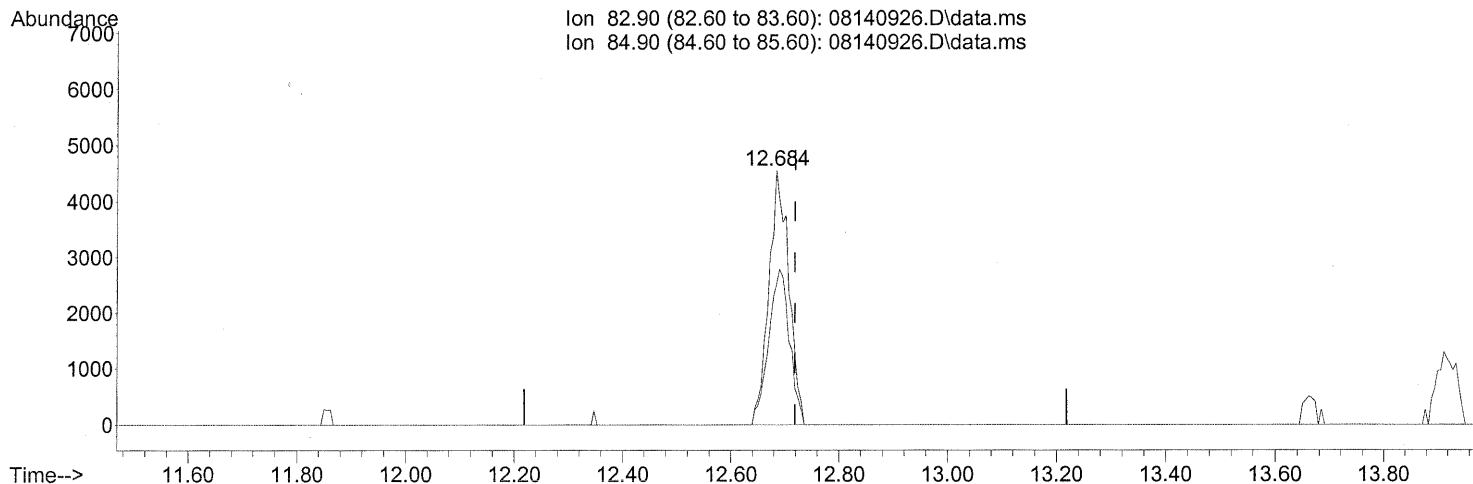
response 71533

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	14.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



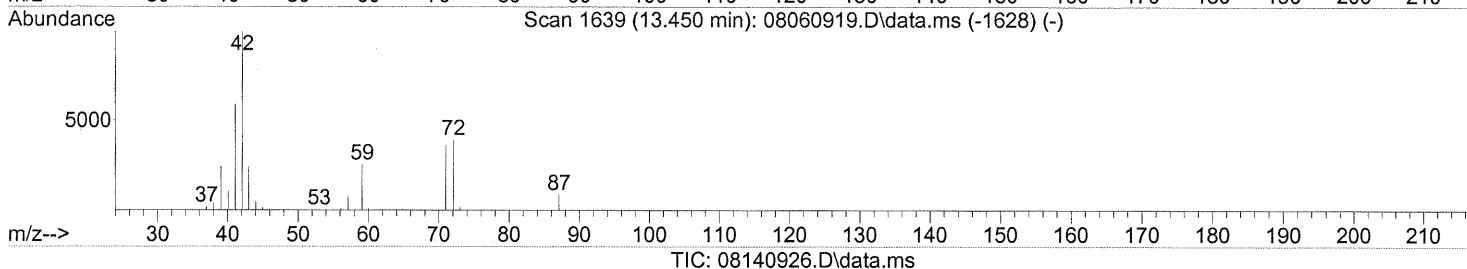
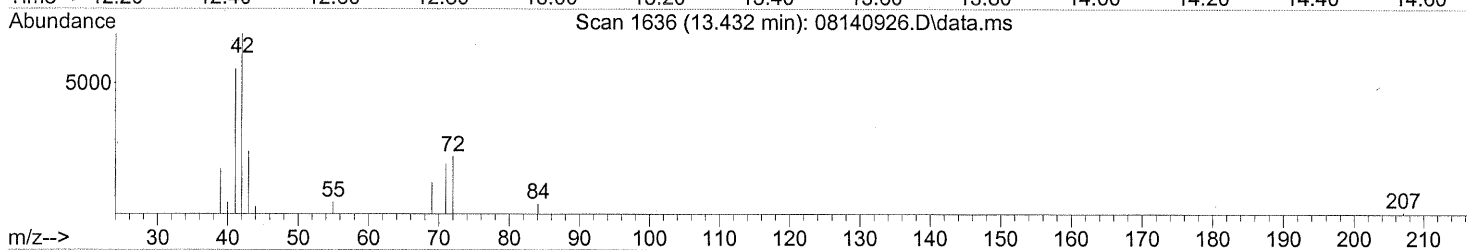
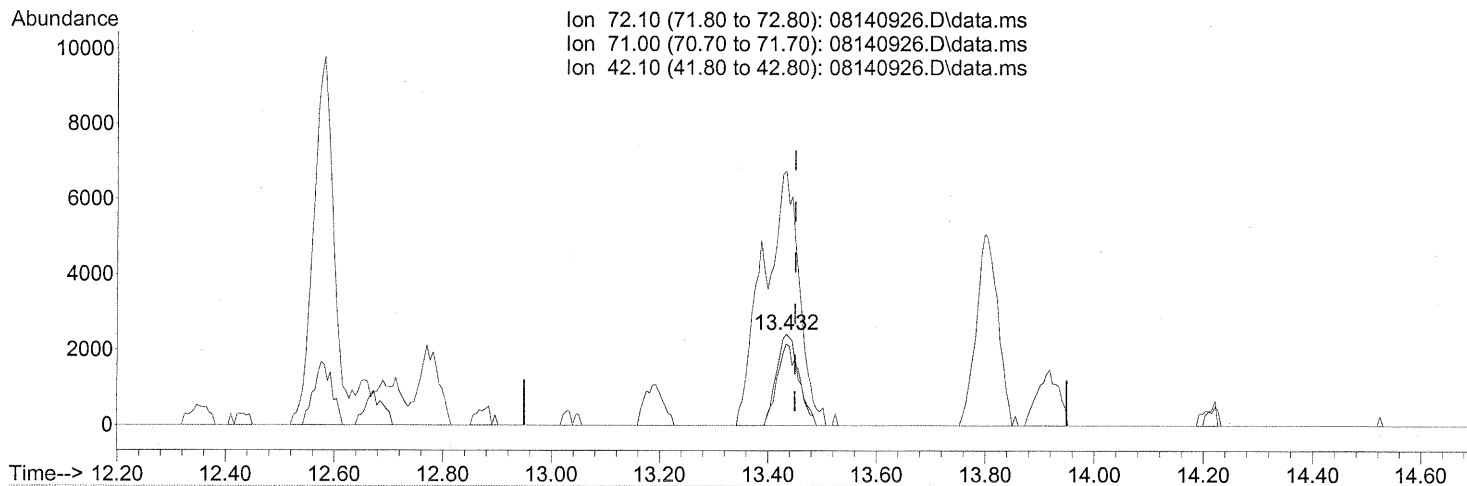
(32) Chloroform (T)
 12.684min (-0.034) 0.67ng
 response 11668

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	63.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.432min (-0.017) 0.88ng

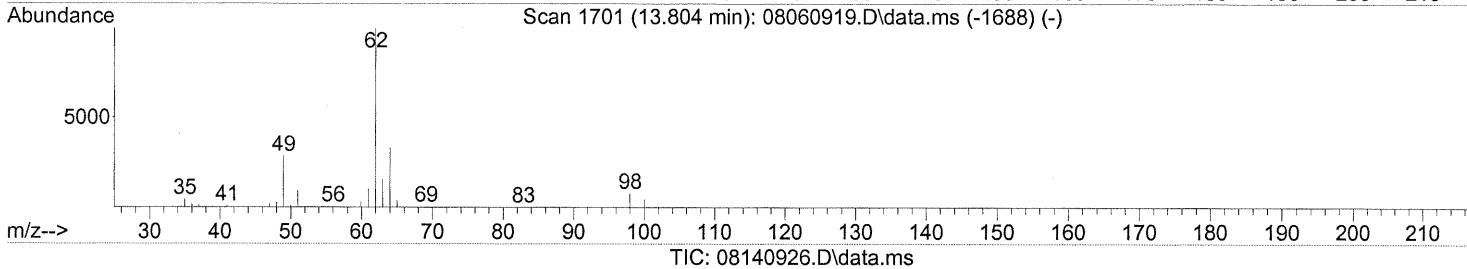
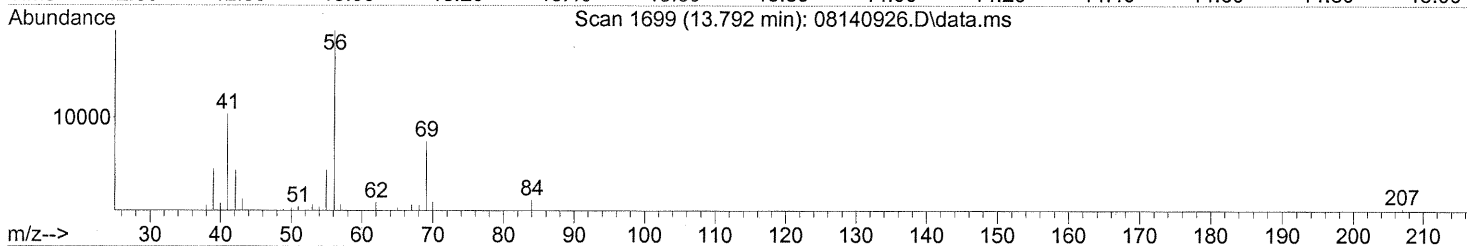
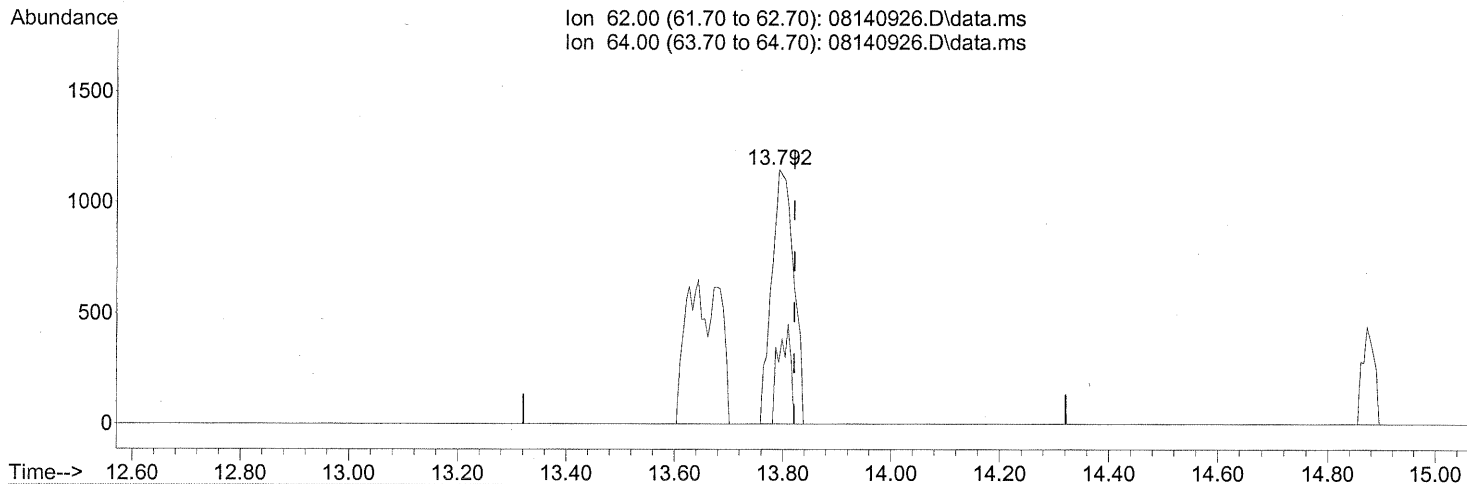
response 6916

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	89.27
42.10	253.40	269.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



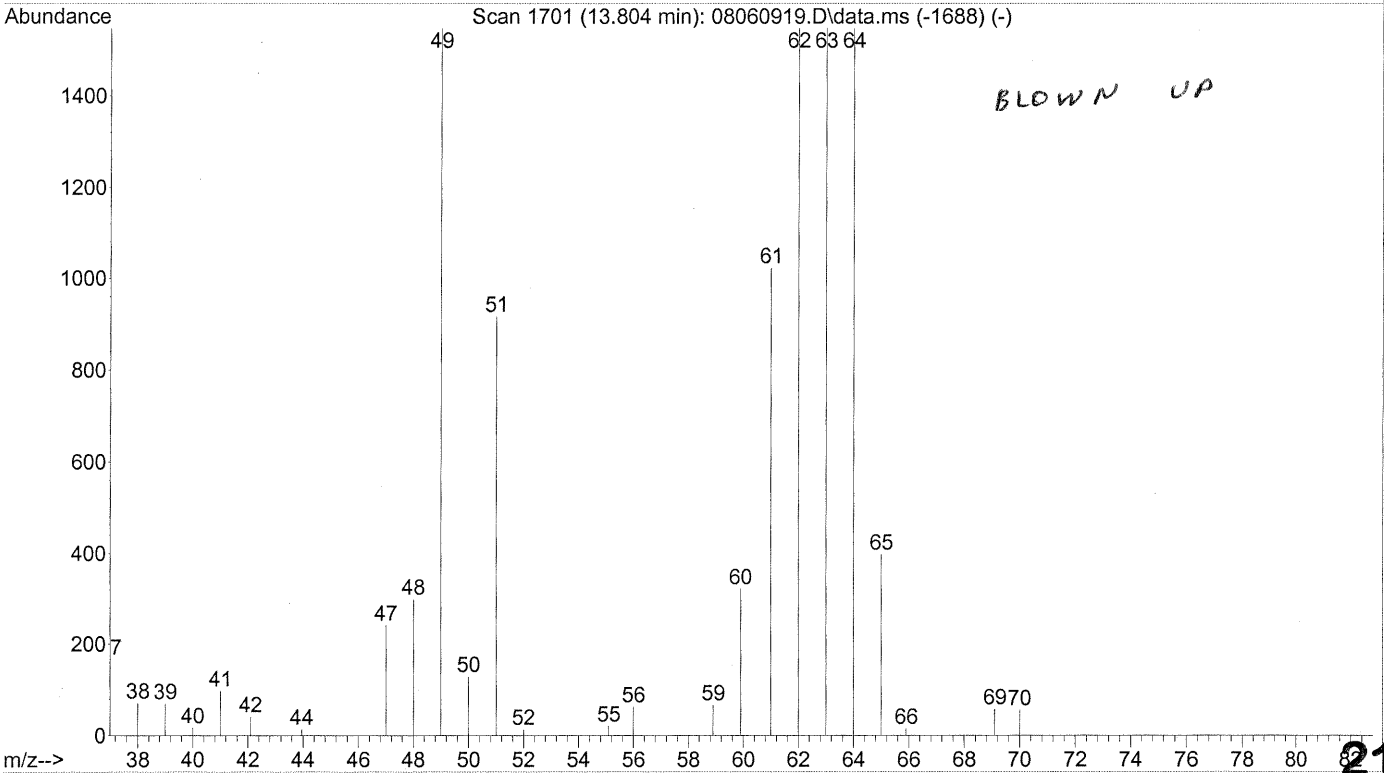
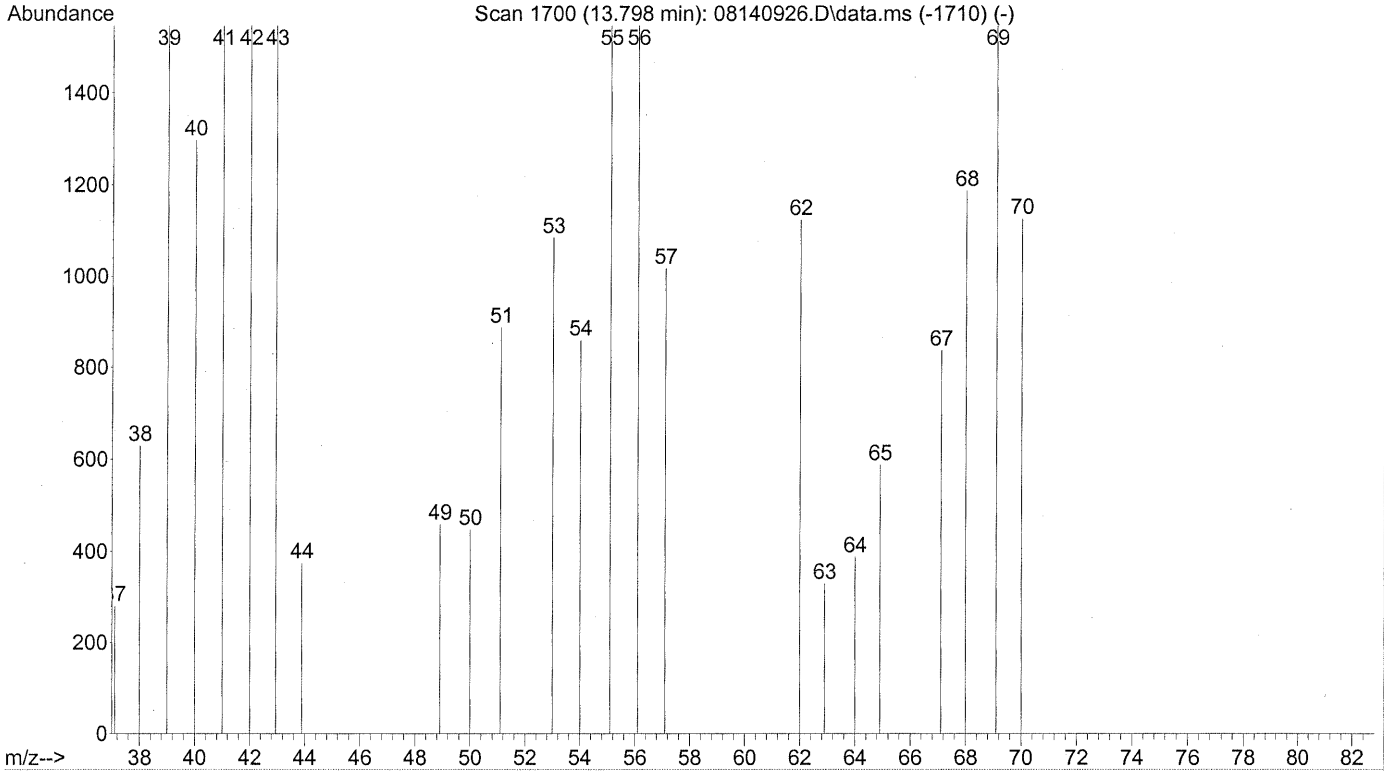
(36) 1,2-Dichloroethane (T)

13.792min (-0.028) 0.20ng

response 3249

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	21.67
0.00	0.00	0.00
0.00	0.00	0.00

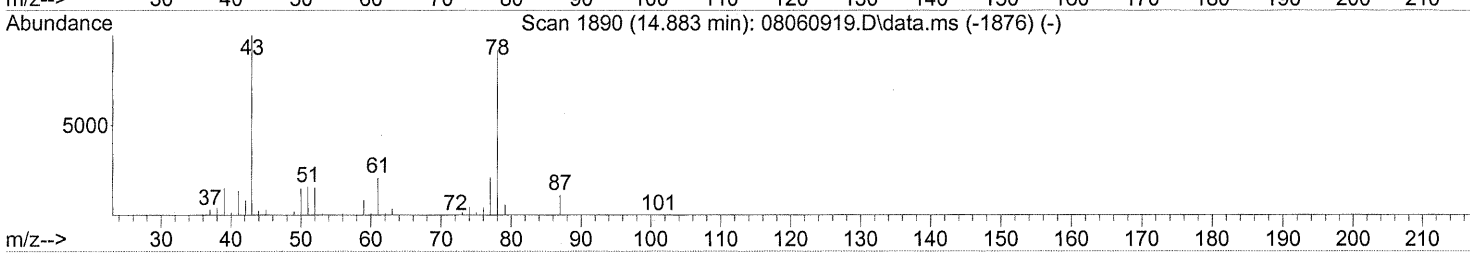
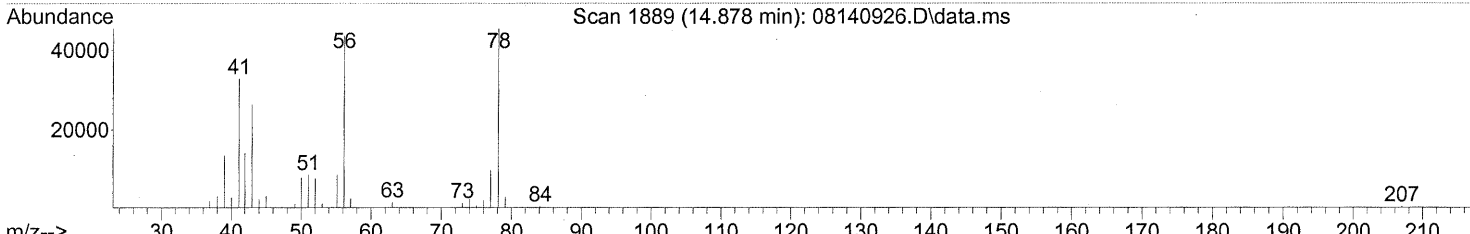
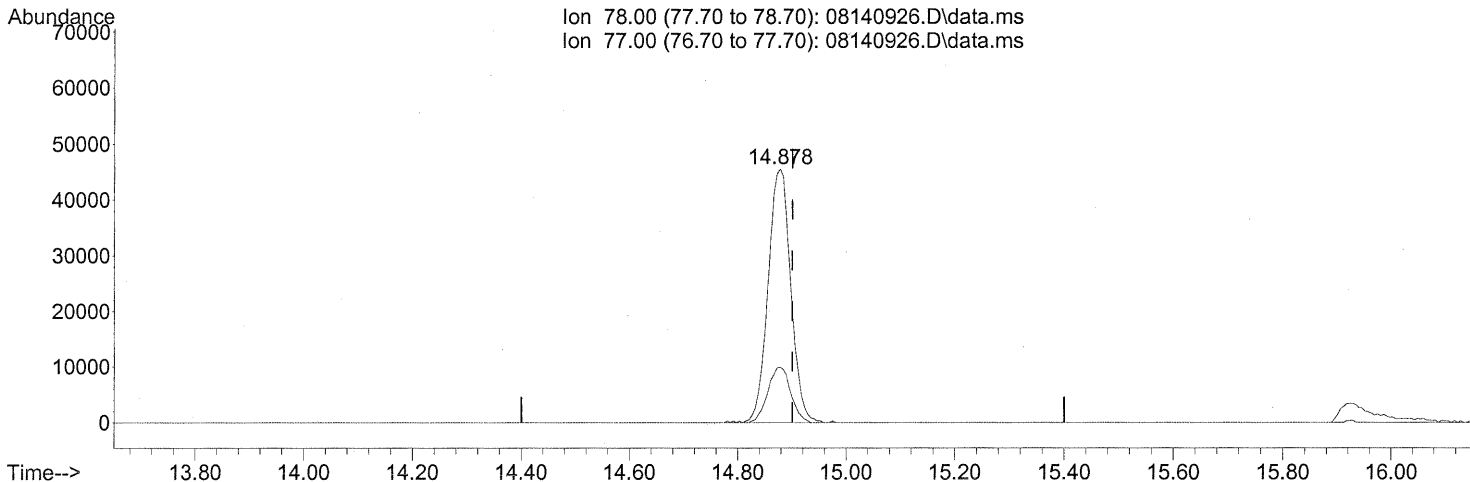
File : J:\MS13\DATA\2009_08\14\08140926.D
Operator : WA
Acquired : 14 Aug 2009 23:33 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0902721-005 (1000mL)
Misc Info : Env. Health & Engineering 100218
Vial Number: 9



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140926.D\data.ms

(41) Benzene (T)

14.878min (-0.023) 3.00ng

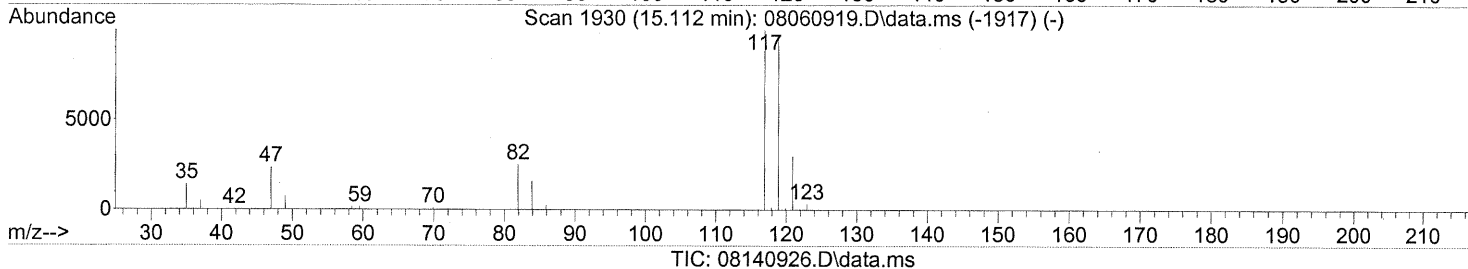
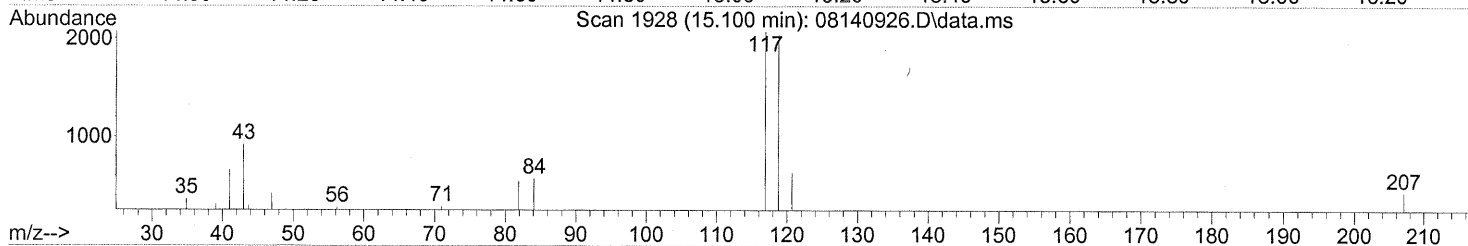
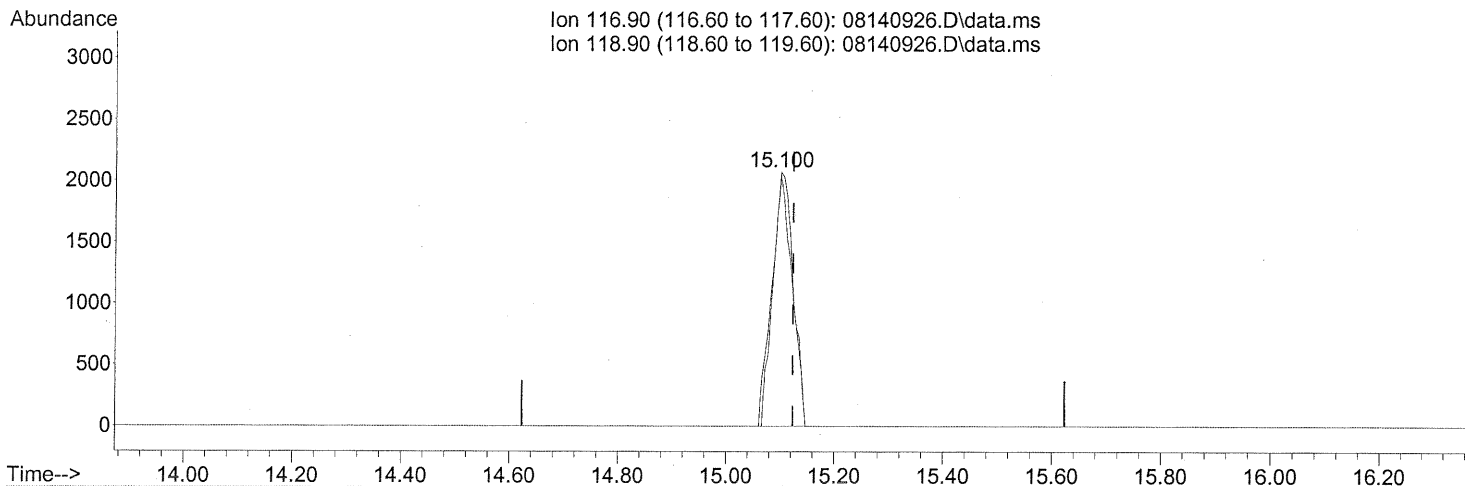
response 132259

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	21.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.40ng

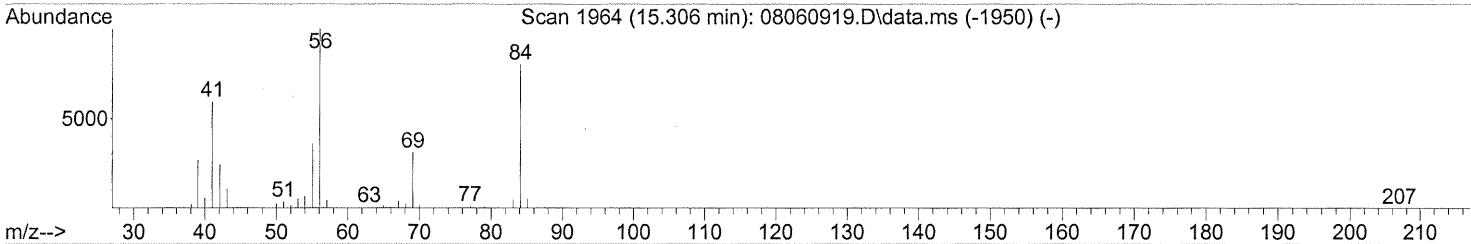
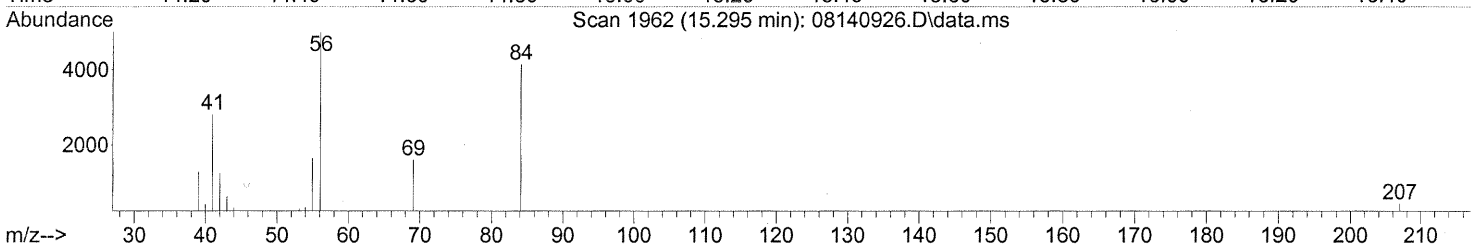
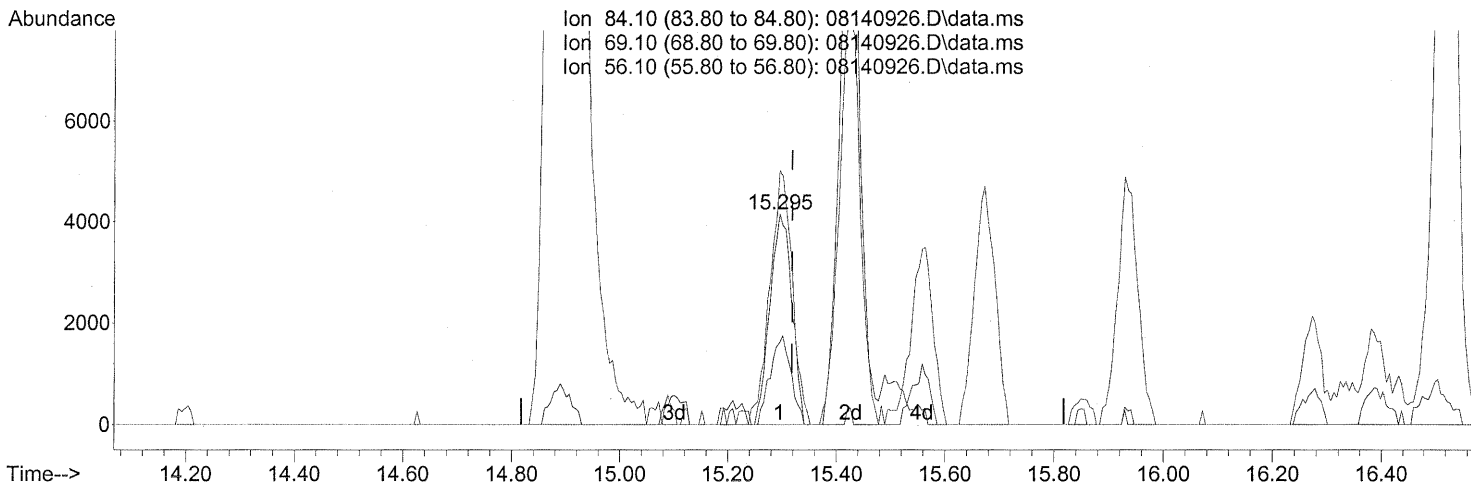
response 5628

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	89.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



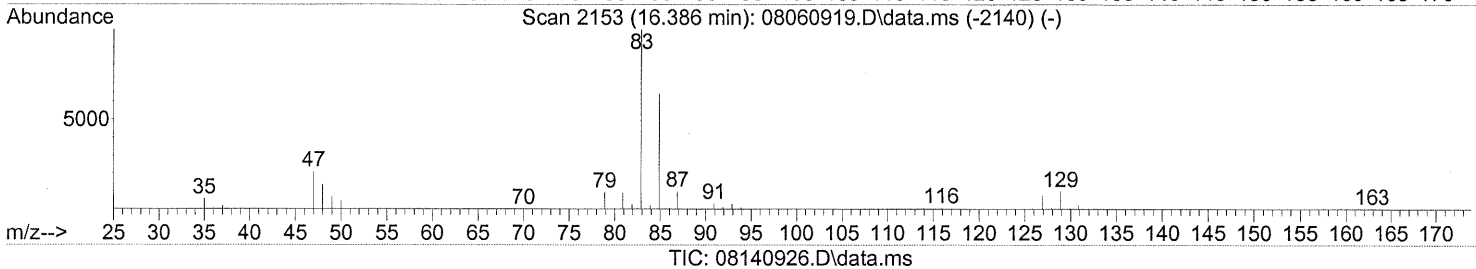
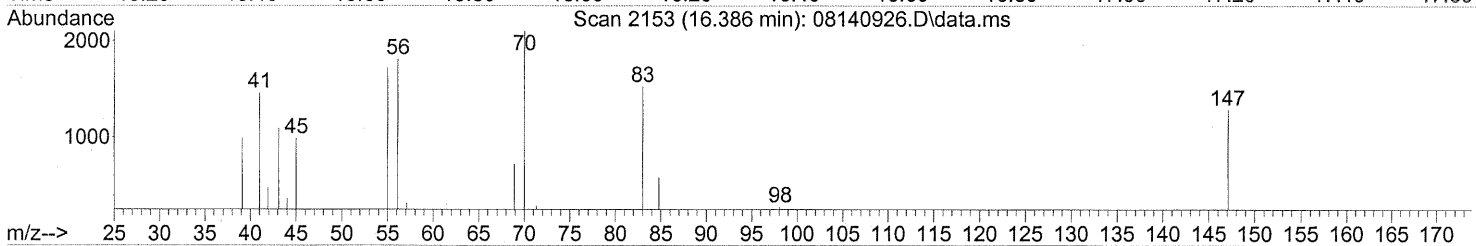
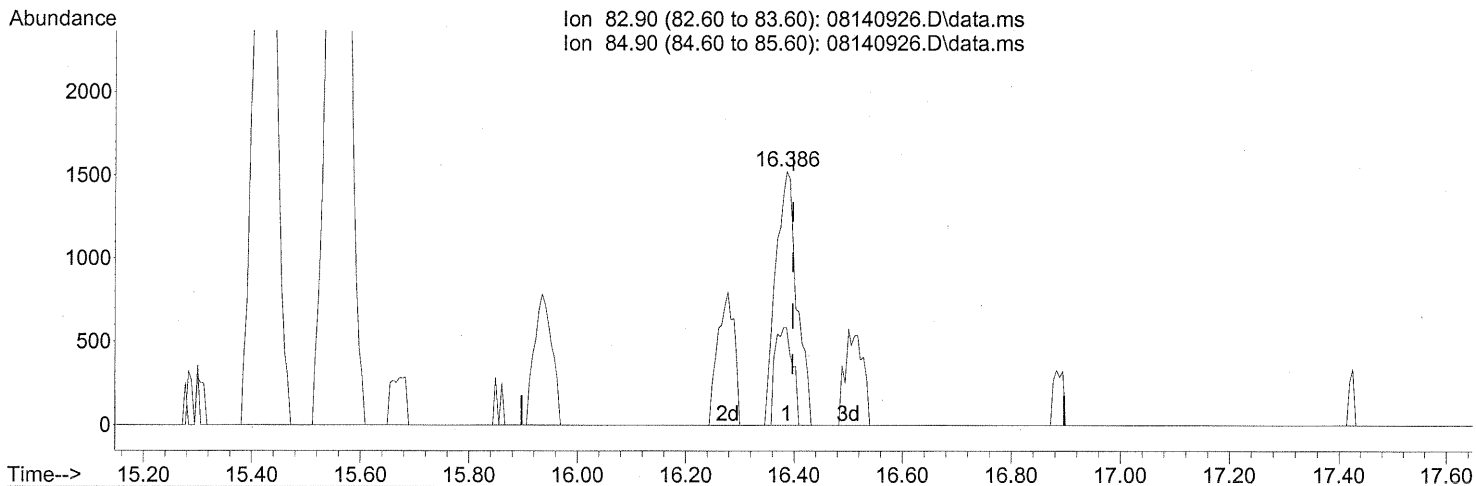
(43) Cyclohexane (T)
 15.295min (-0.023) 0.72ng
 response 11605

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	40.12
56.10	127.50	123.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.386min (-0.011) 0.28ng

response 4137

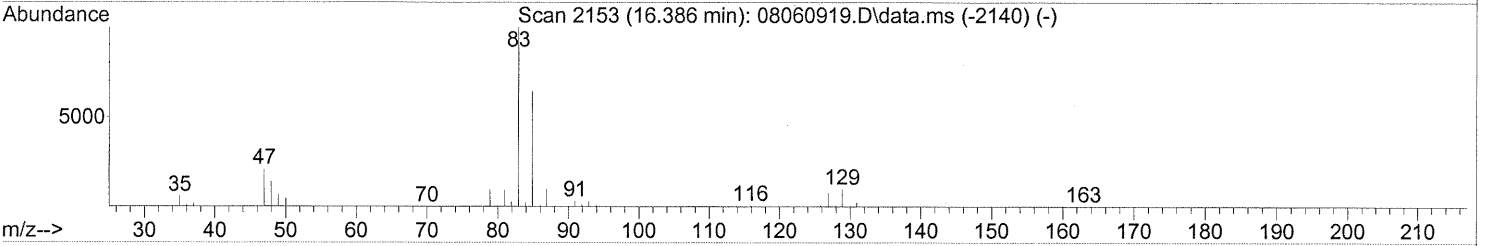
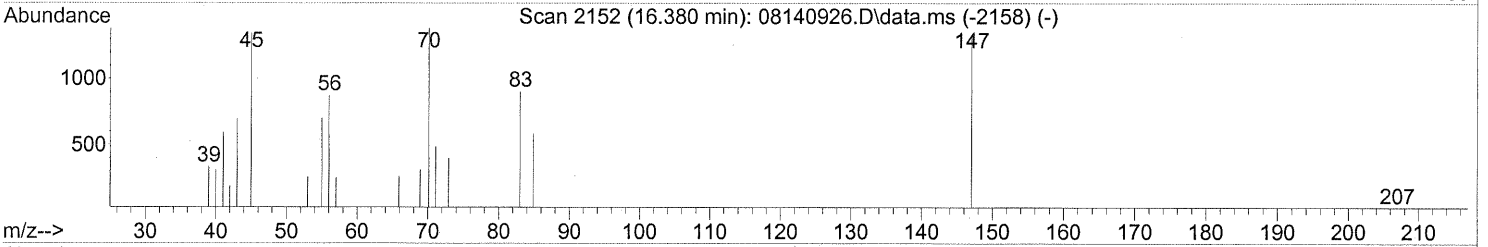
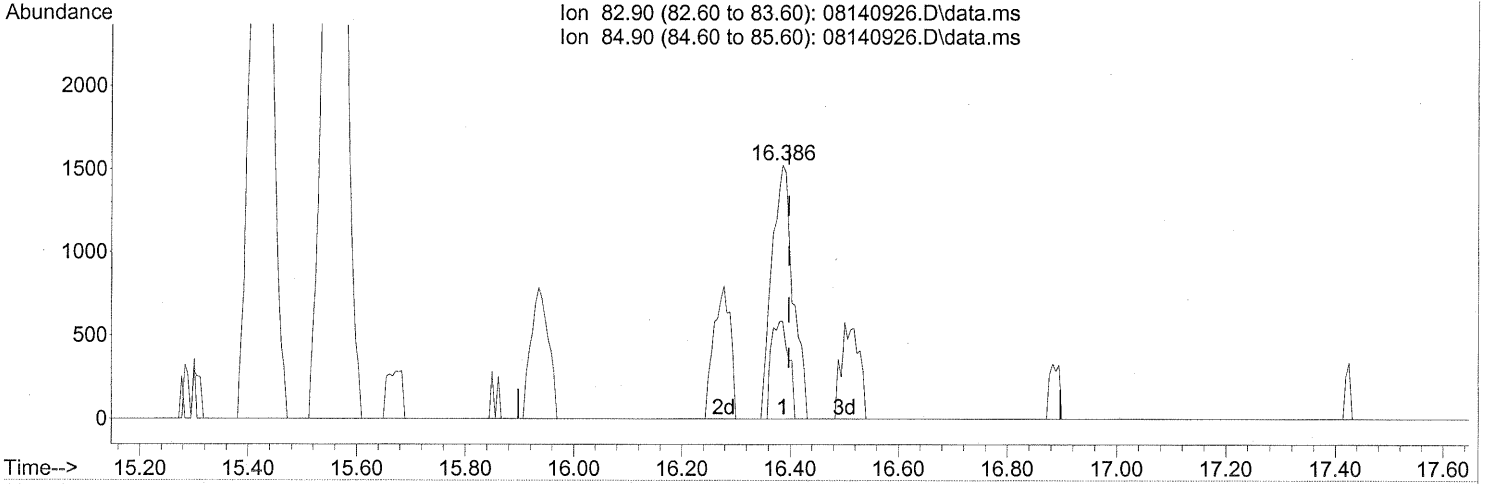
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	31.47#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140926.D\data.ms

(46) Bromodichloromethane (T)

16.386min (-0.011) 0.28ng

response 4137

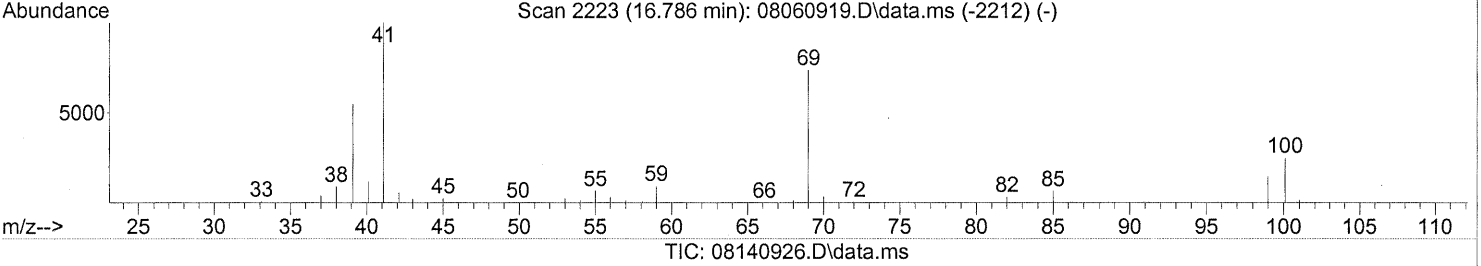
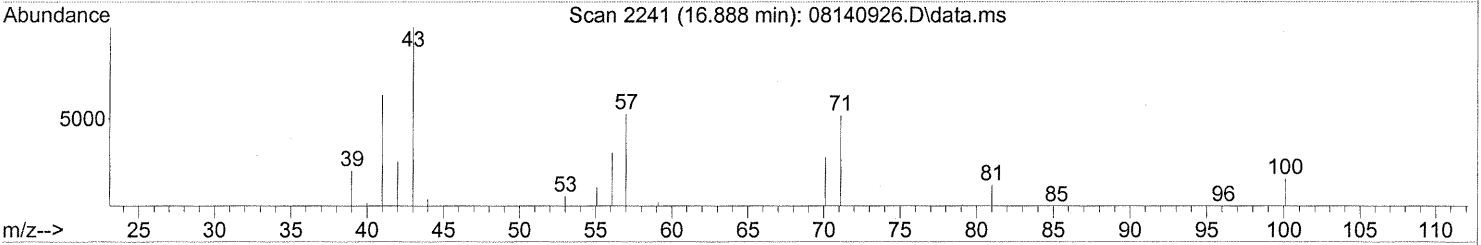
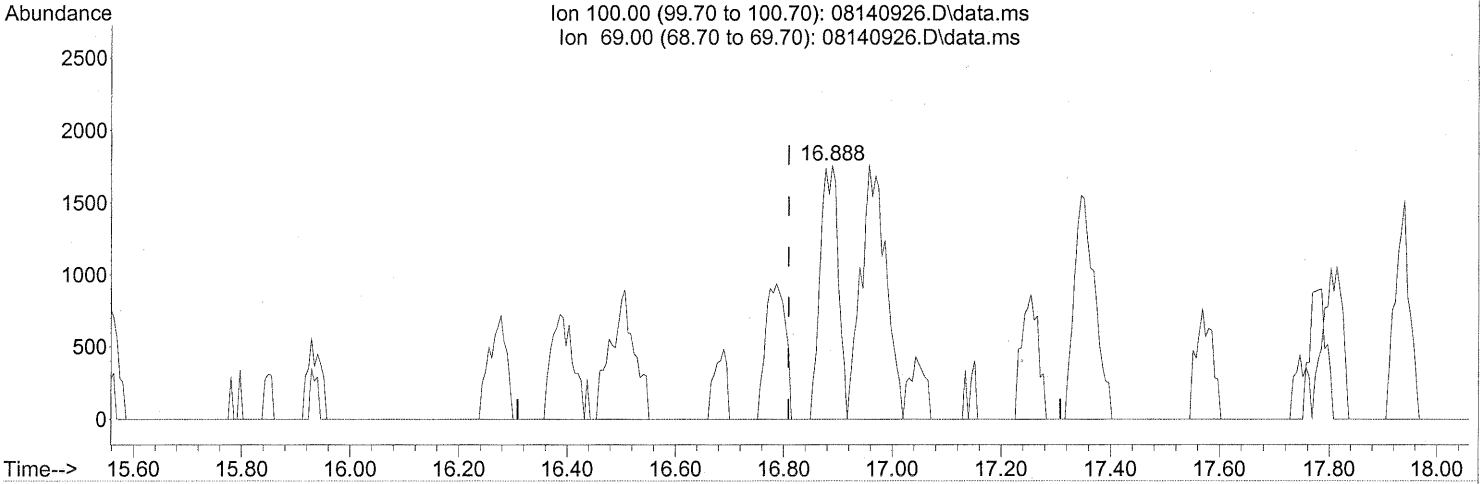
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	31.47#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140926.D
Acq On : 14 Aug 2009 23:33
Operator : WA
Sample : P0902721-005 (1000mL)
Misc : Env. Health & Engineering 100218
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.888min (+0.080) 1.01ng

response 4081

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

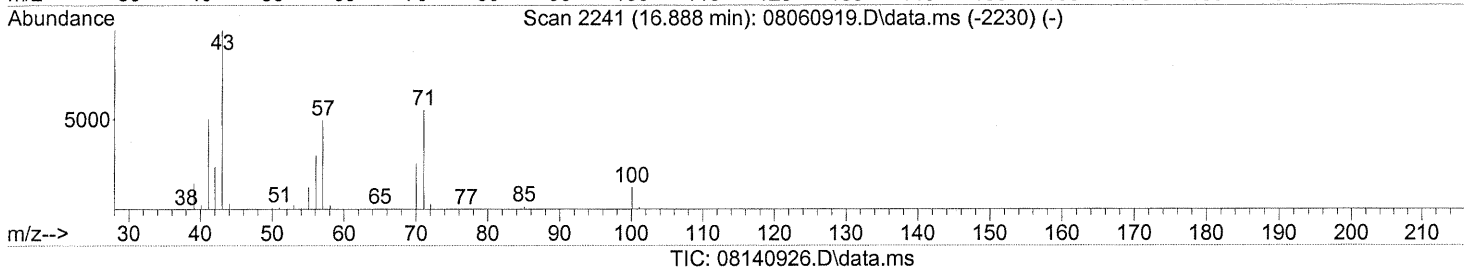
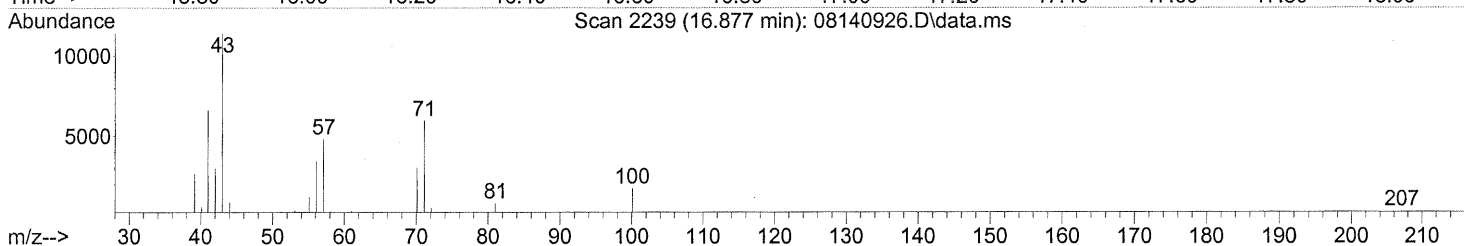
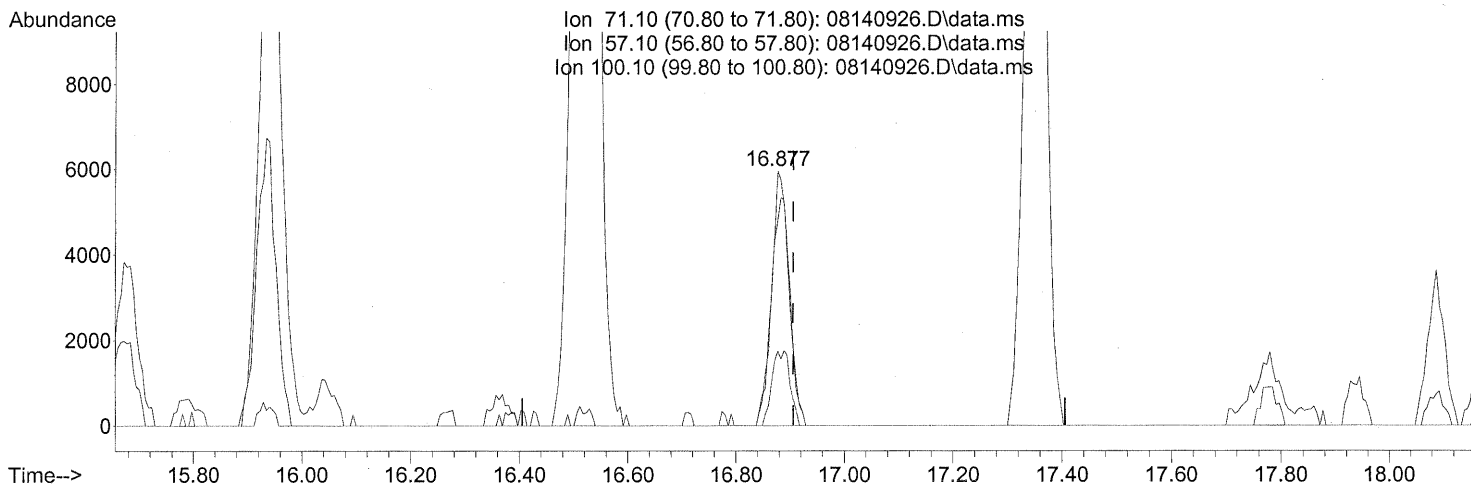
FP in 8/20/09

em 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



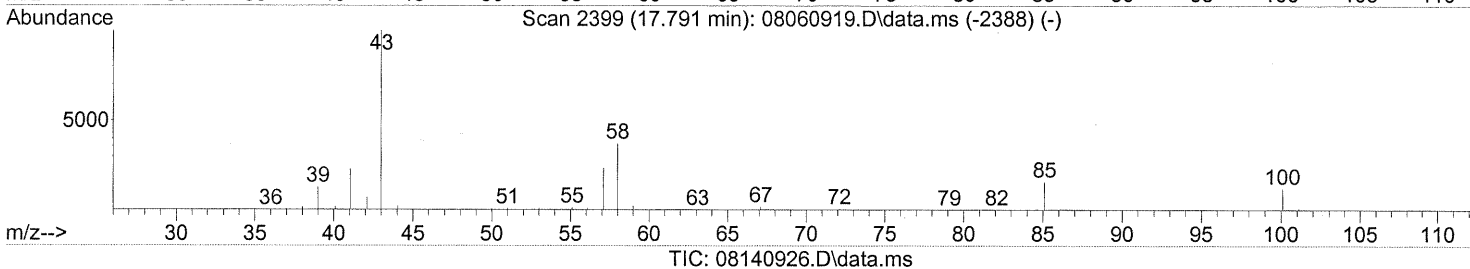
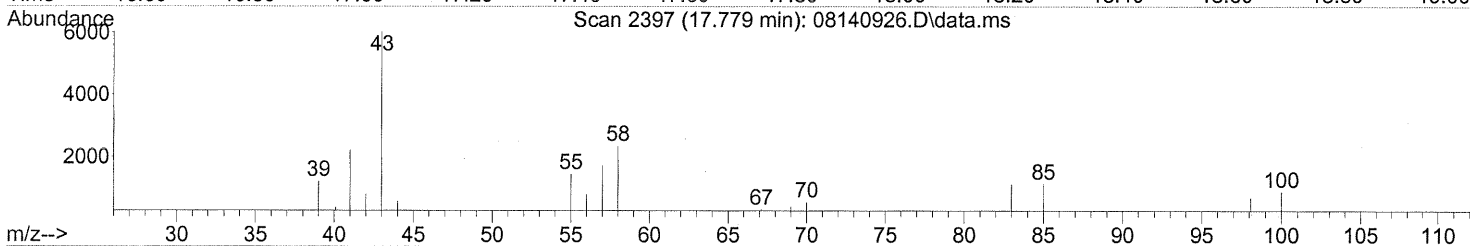
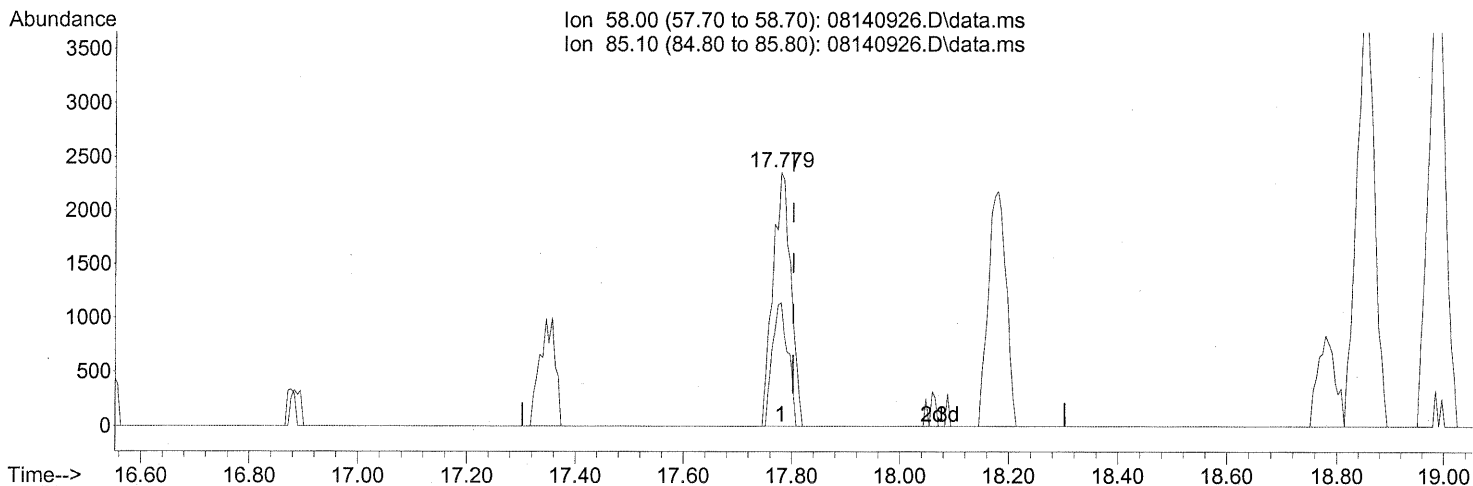
(51) n-Heptane (T)
 16.877min (-0.028) 1.15ng
 response 13580

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	93.30
100.10	26.40	30.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.779min (-0.023) 0.52ng

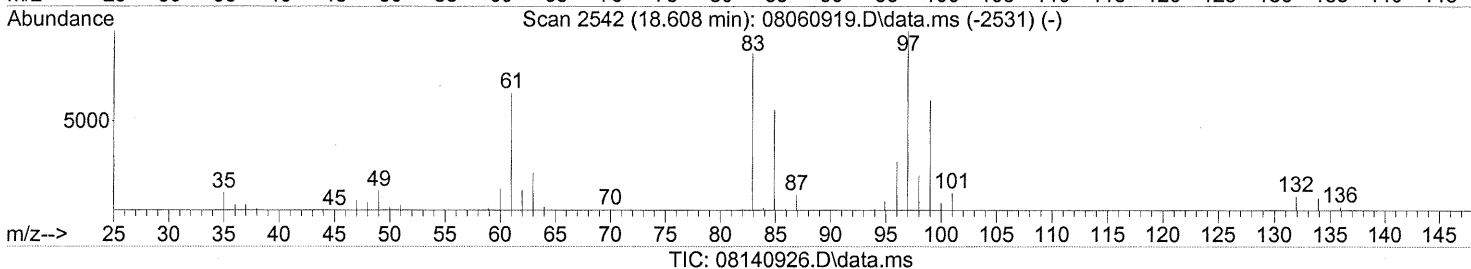
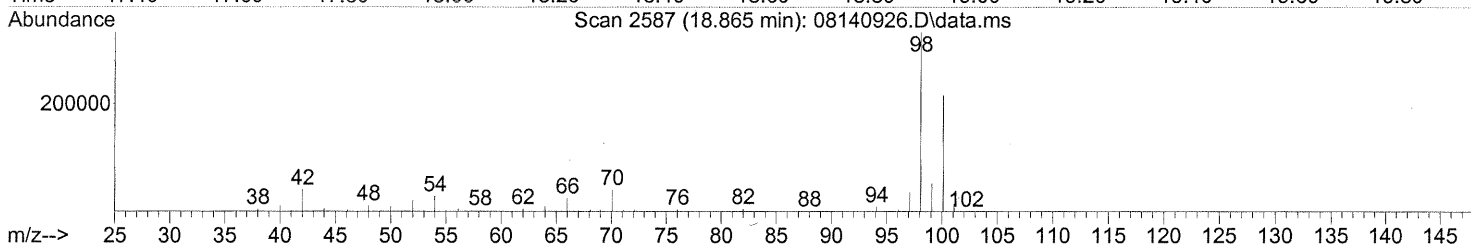
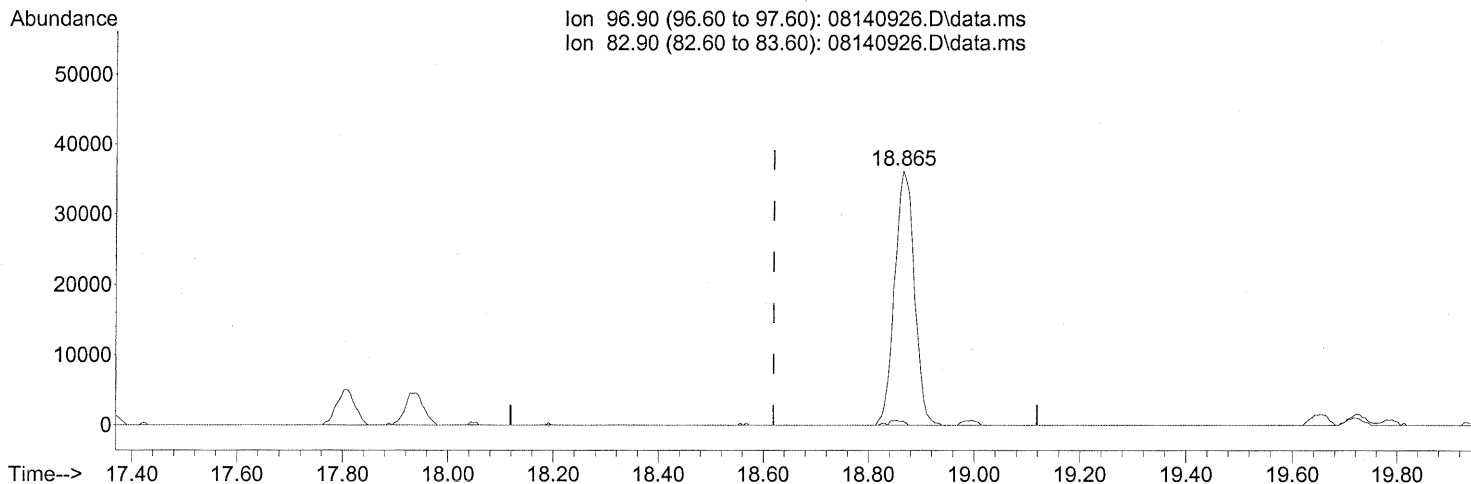
response 5469

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	42.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.75ng

response 94376

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

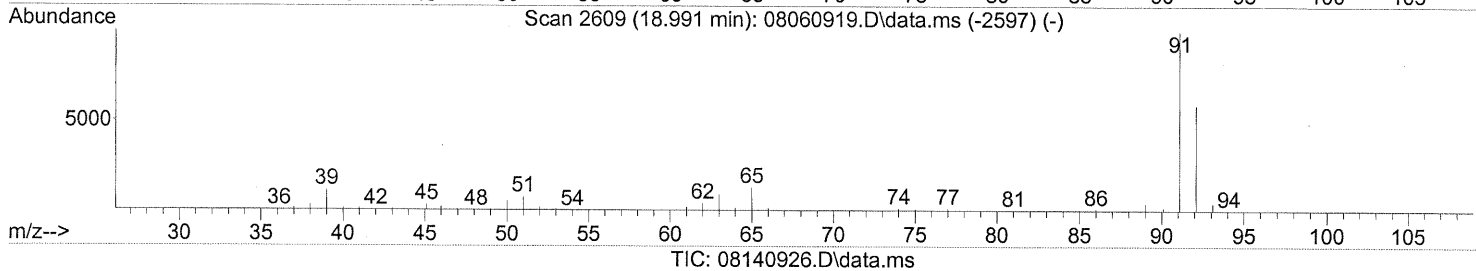
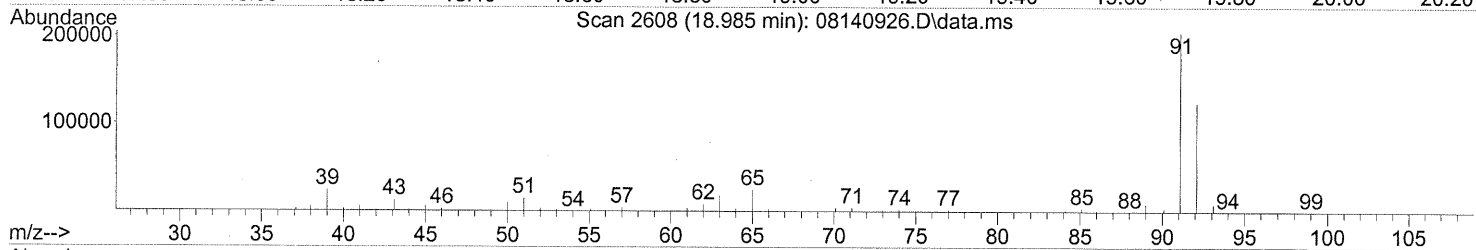
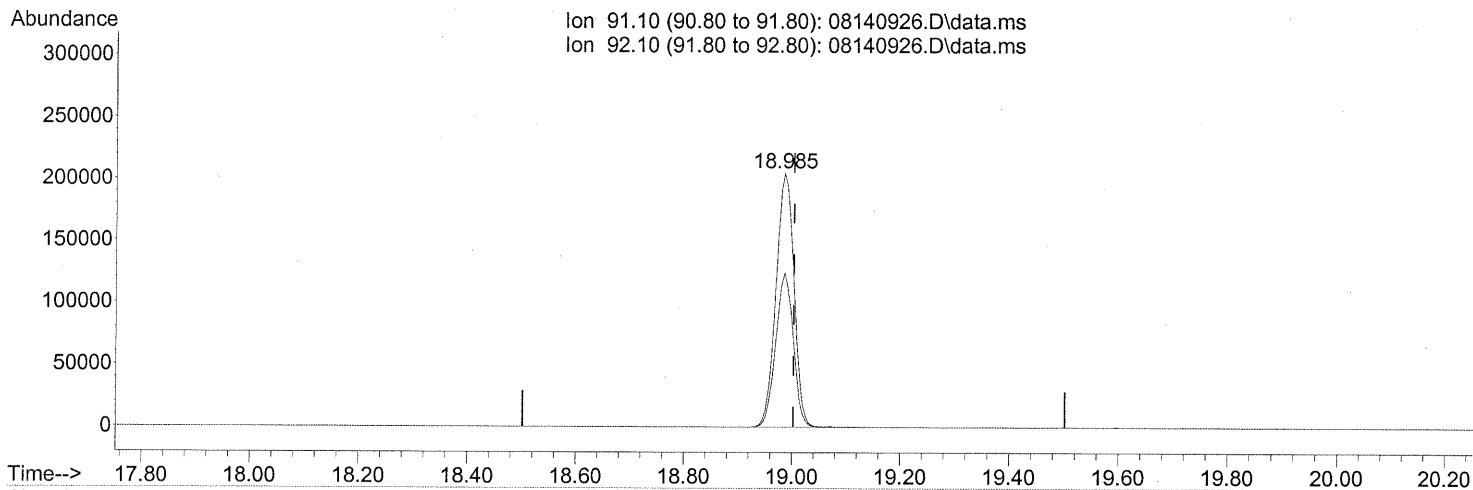
FP in 8/20/09

com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140926.D
Acq On : 14 Aug 2009 23:33
Operator : WA
Sample : P0902721-005 (1000mL)
Misc : Env. Health & Engineering 100218
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 11.14ng

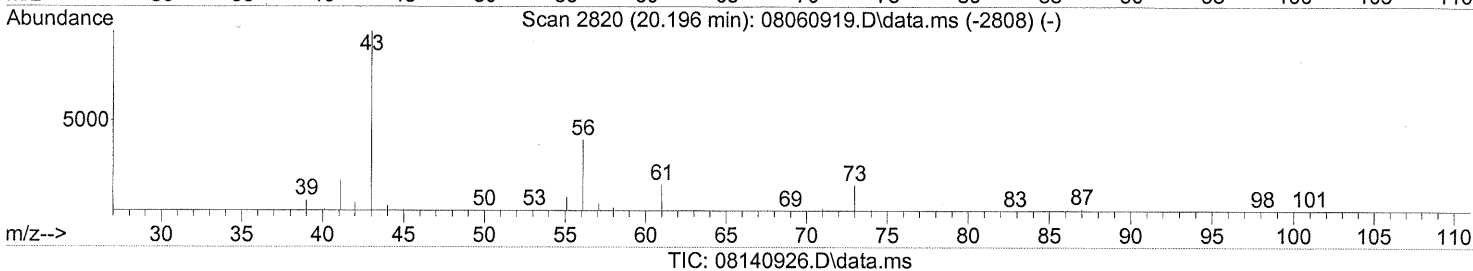
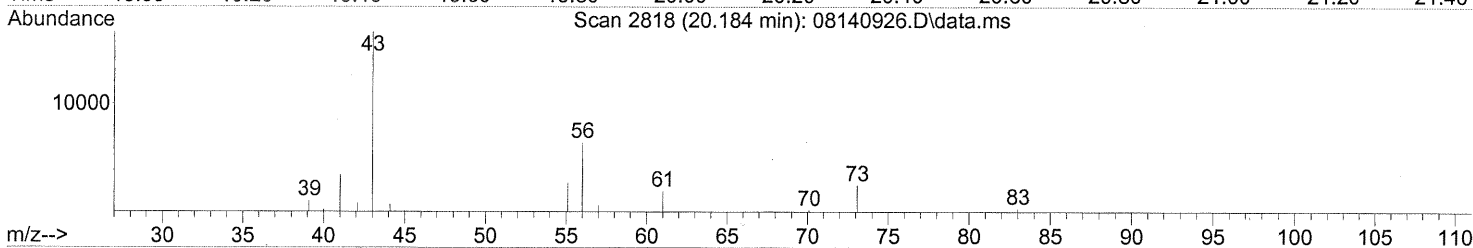
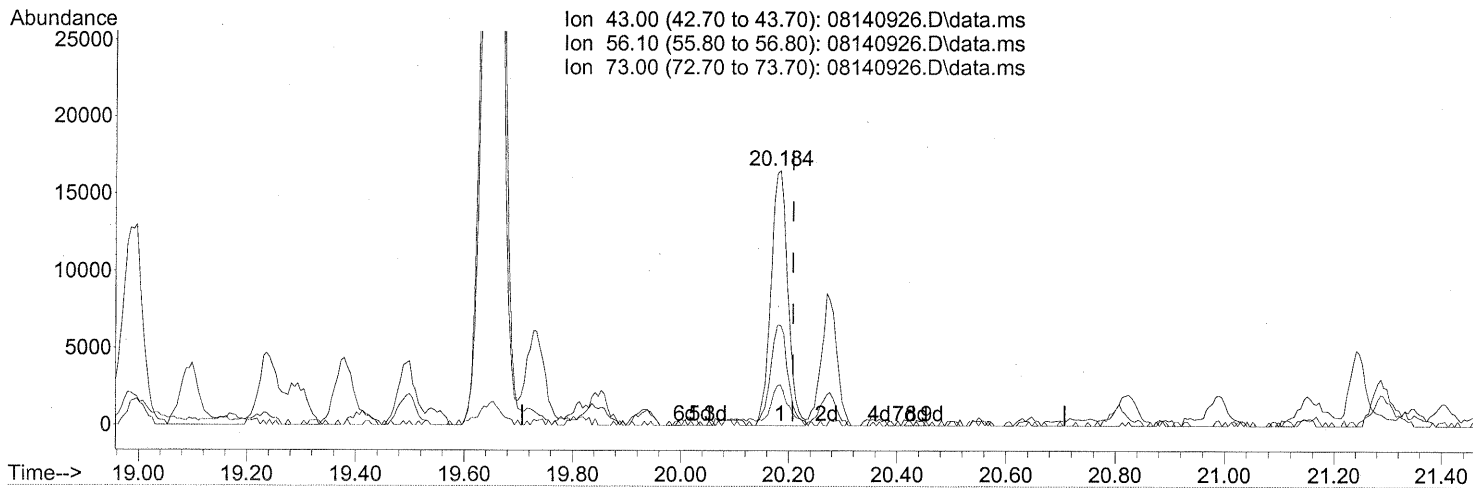
response 472668

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



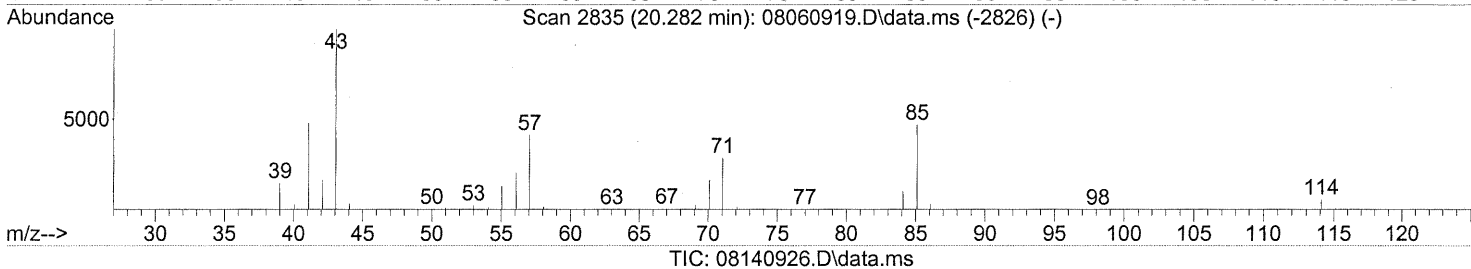
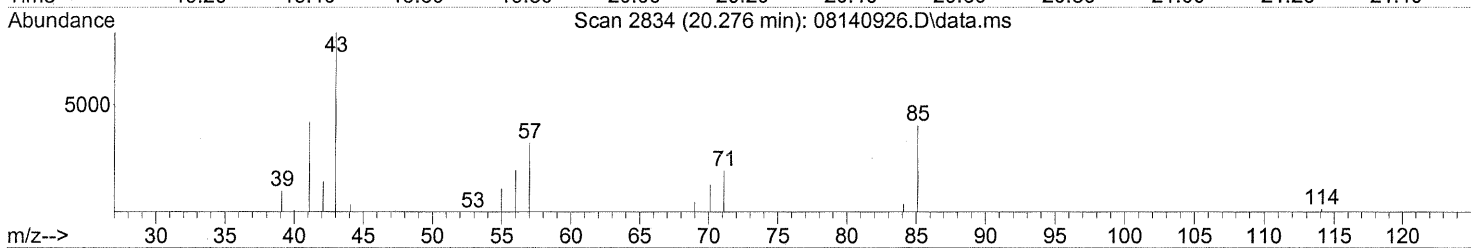
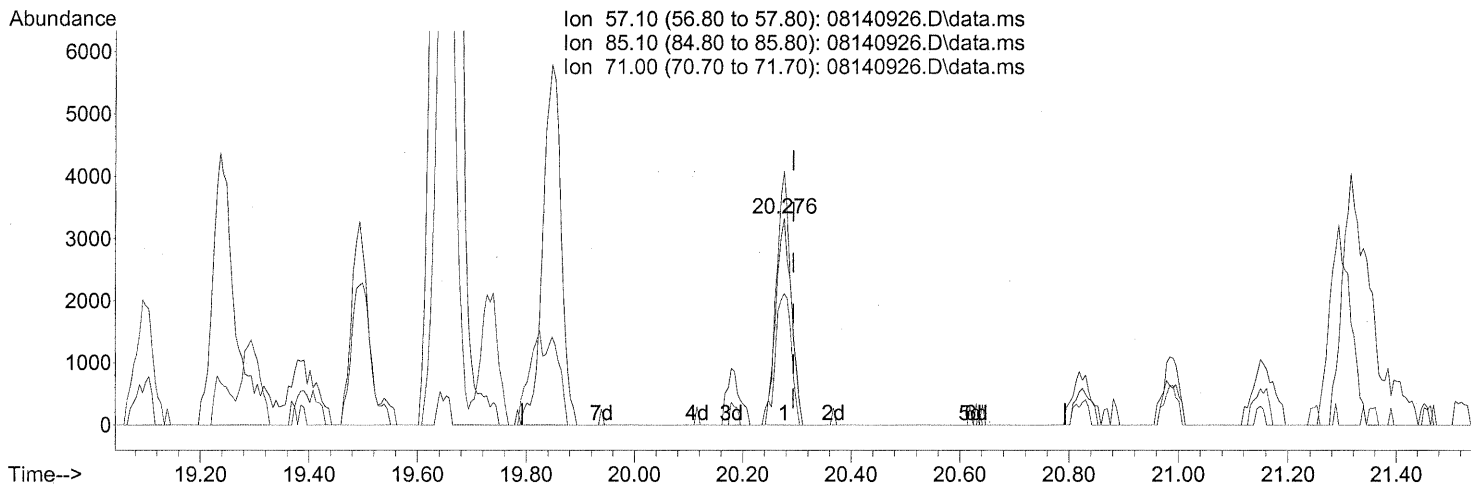
(62) n-Butyl Acetate (T)
 20.184min (-0.023) 1.07ng
 response 35742

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	41.09
73.00	14.80	16.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



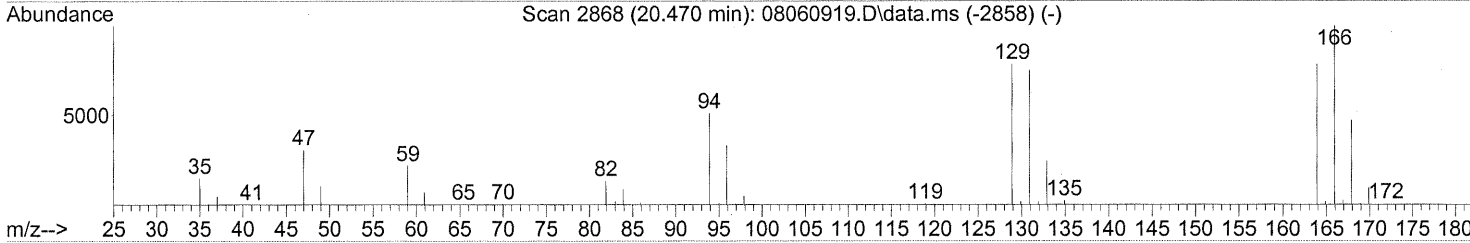
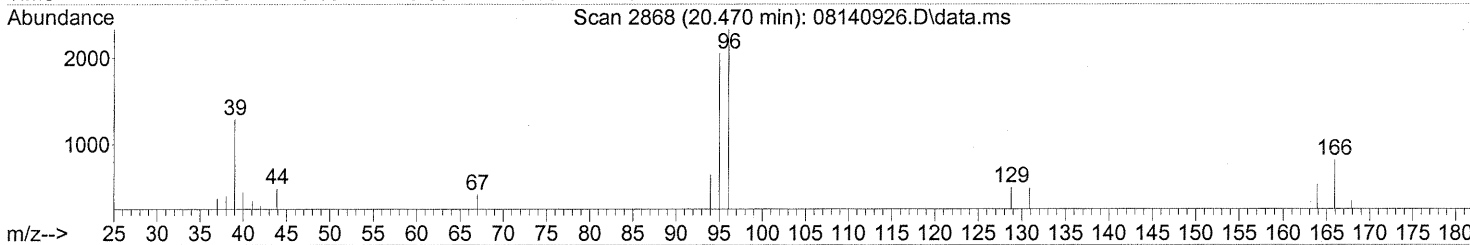
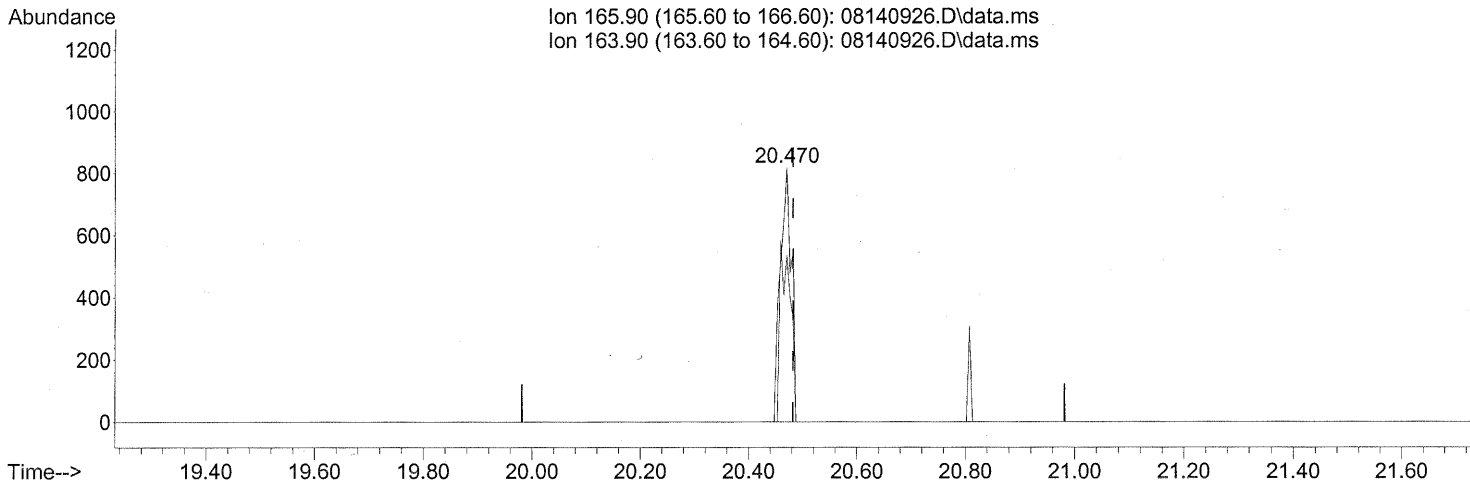
(63) n-Octane (T)
 20.276min (-0.017) 0.65ng
 response 6683

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	112.81
71.00	68.10	63.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140926.D\data.ms

(64) Tetrachloroethene (T)

20.470min (-0.011) 0.12ng

response 1165

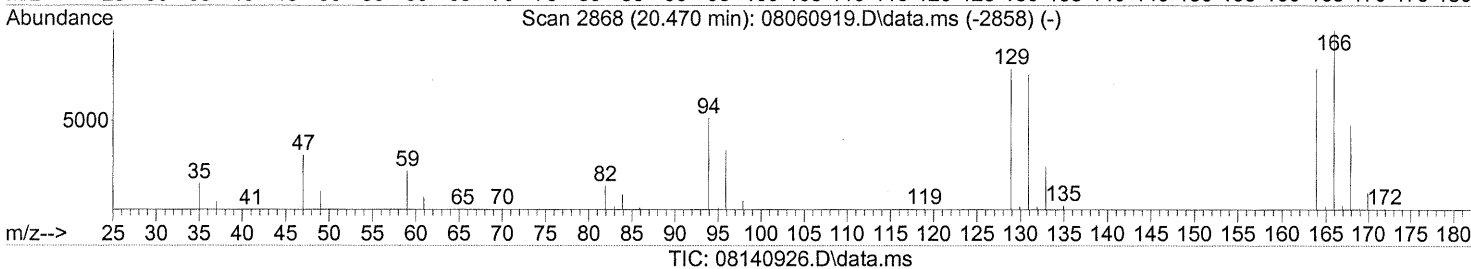
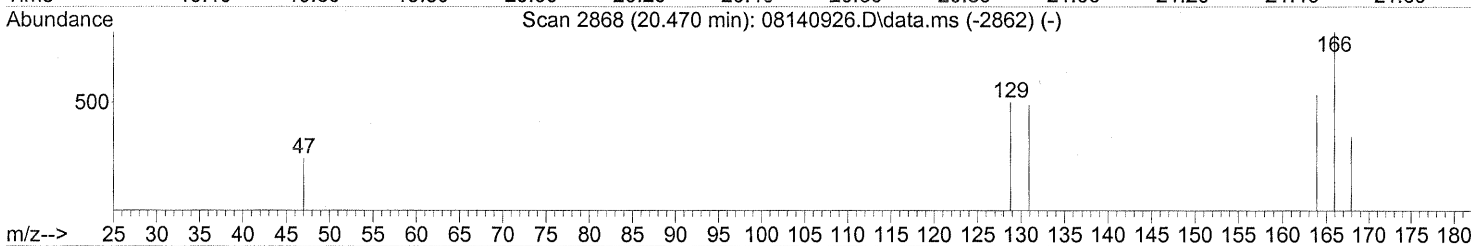
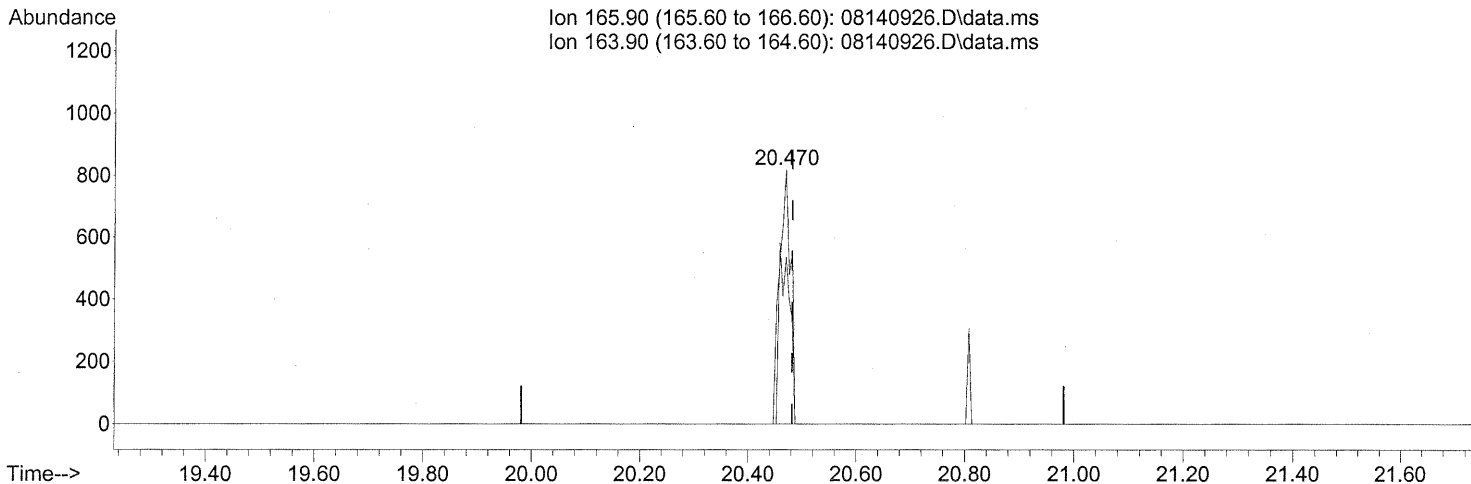
Ion	Exp%	Act%
165.90	100	100
163.90	77.80	66.18
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.470min (-0.011) 0.12ng

response 1165

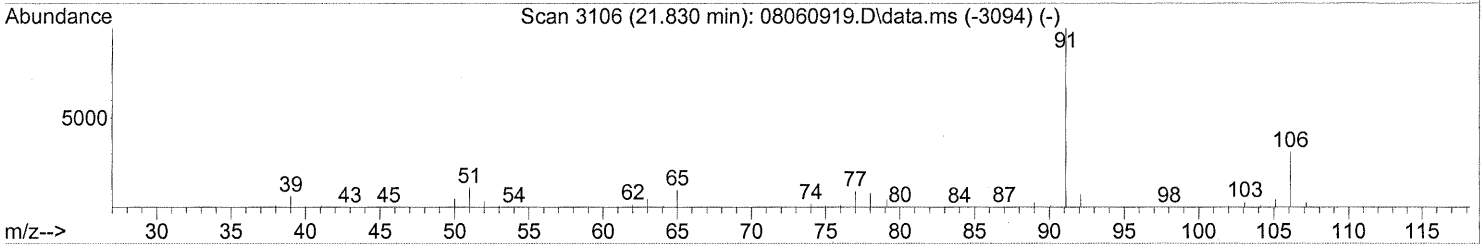
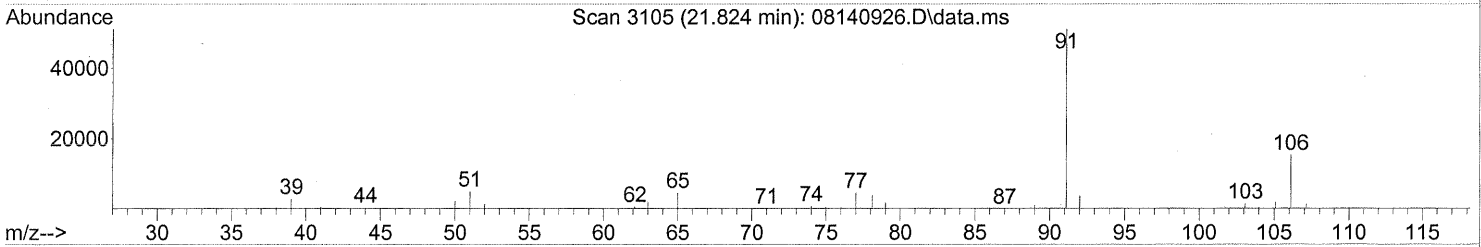
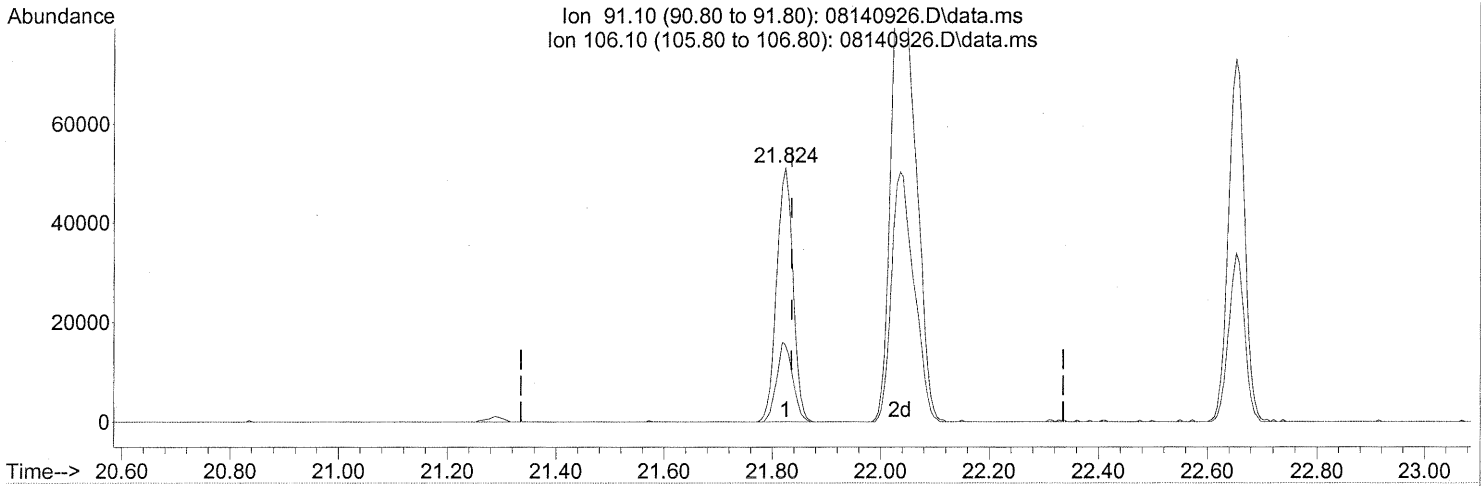
Ion	Exp%	Act%
165.90	100	100
163.90	77.80	66.18
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140926.D\data.ms

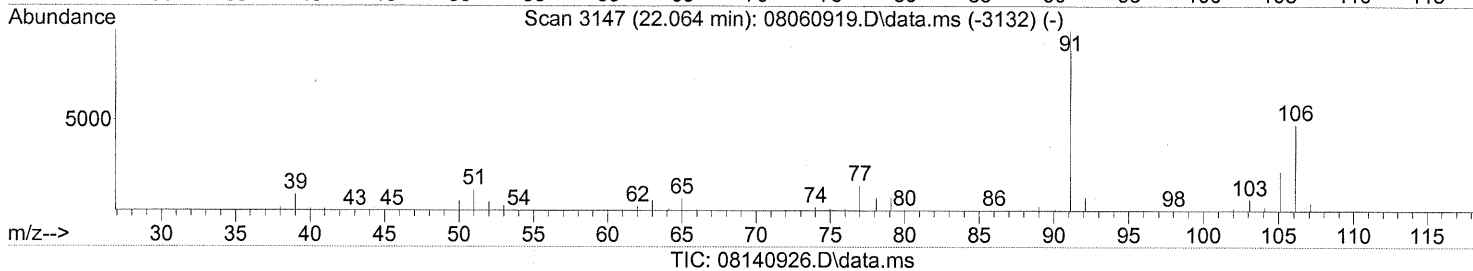
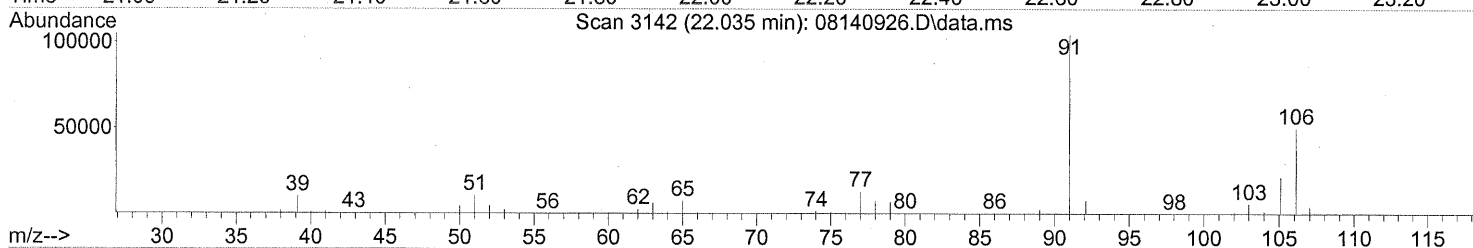
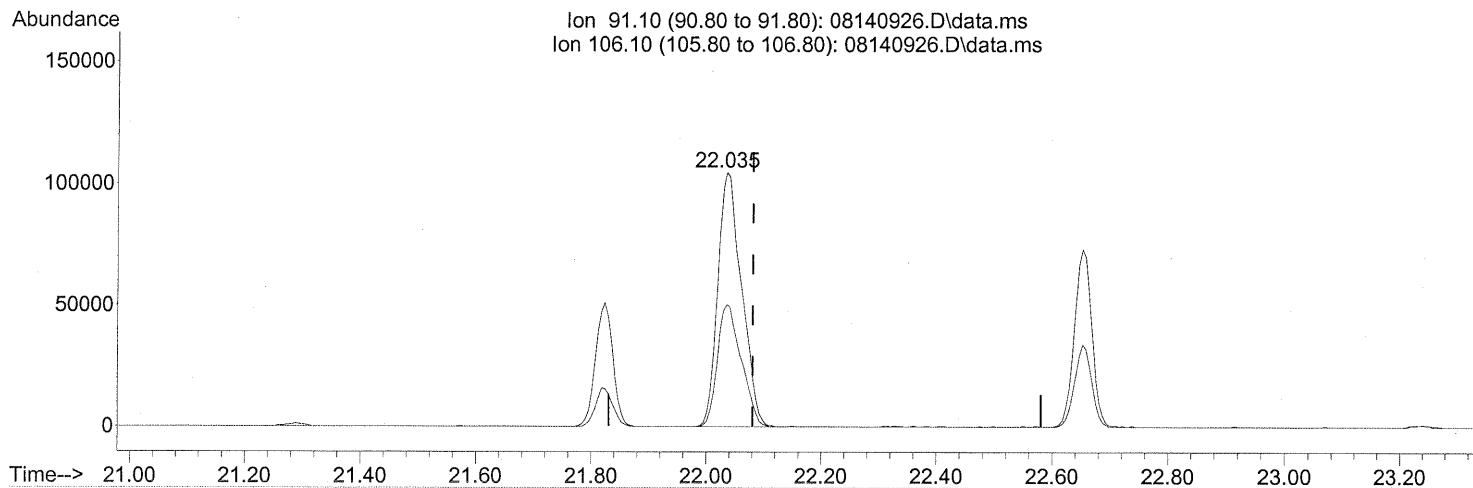
(66) Ethylbenzene (T)
 21.824min (-0.011) 2.20ng
 response 106568

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 7.70ng

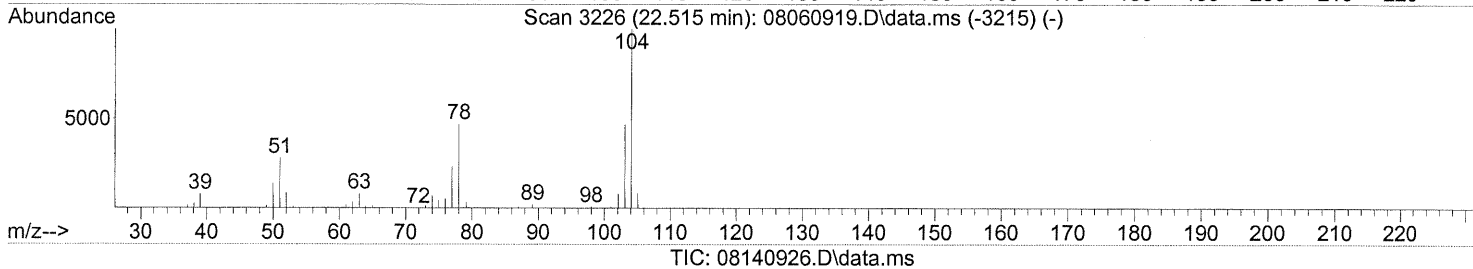
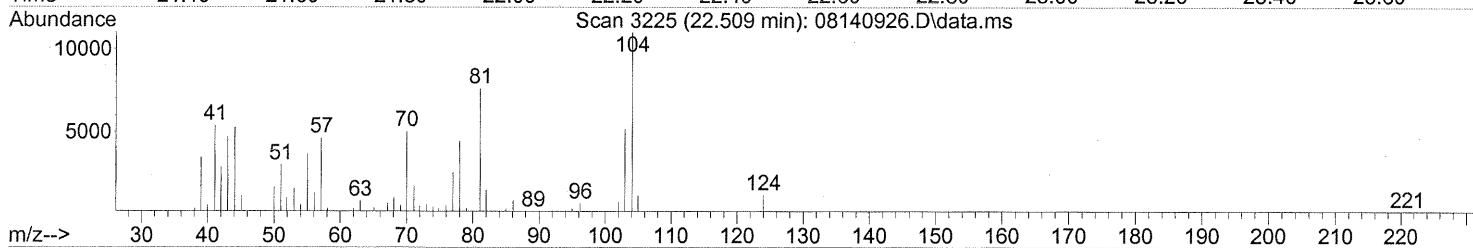
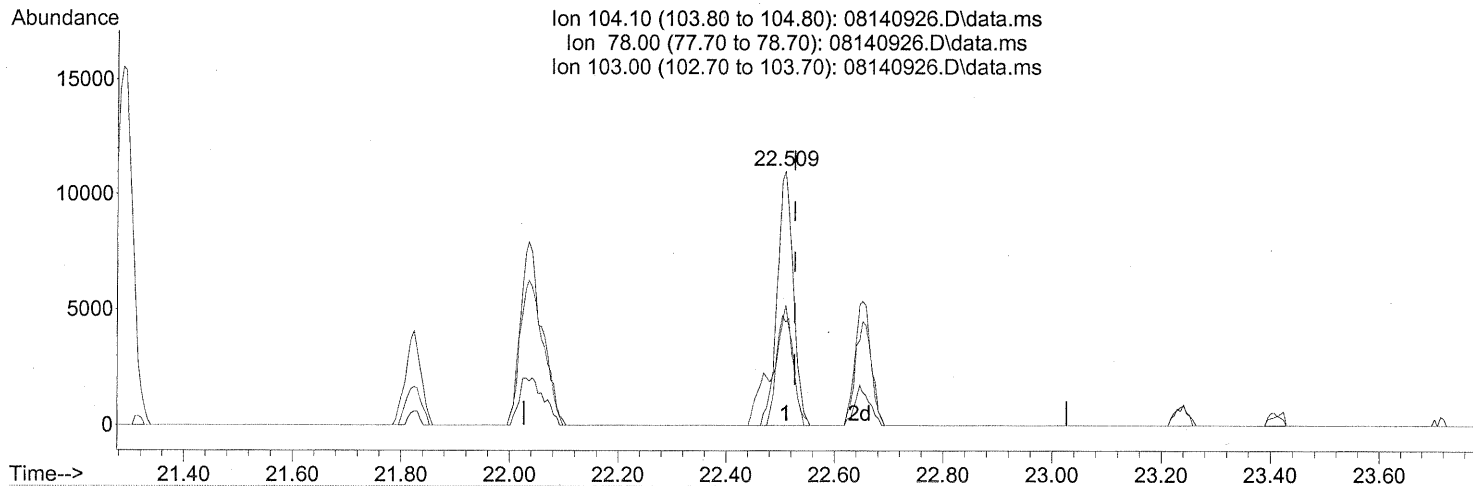
response 302198

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



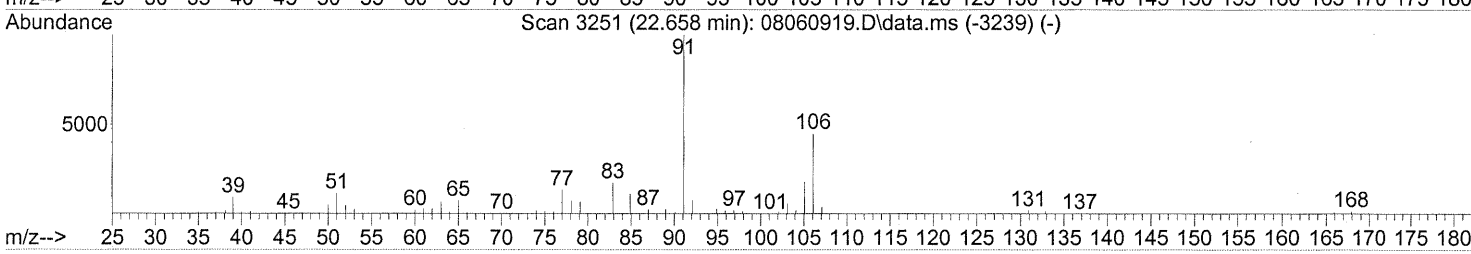
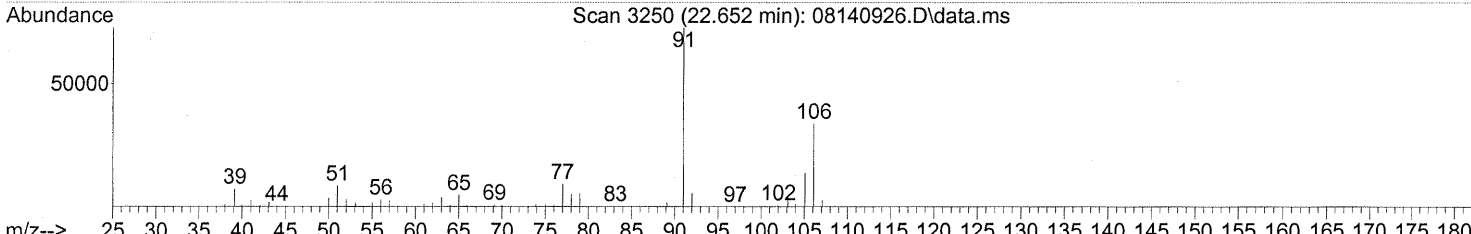
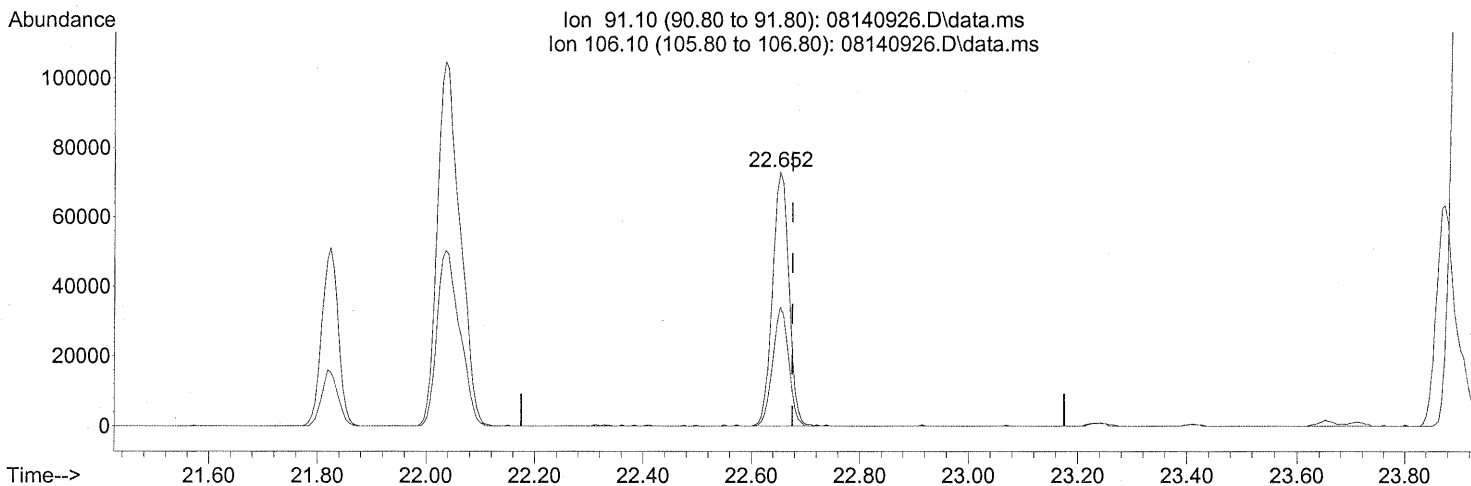
(69) Styrene (T)
 22.509min (-0.017) 0.79ng
 response 22534

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	45.06
103.00	46.20	46.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



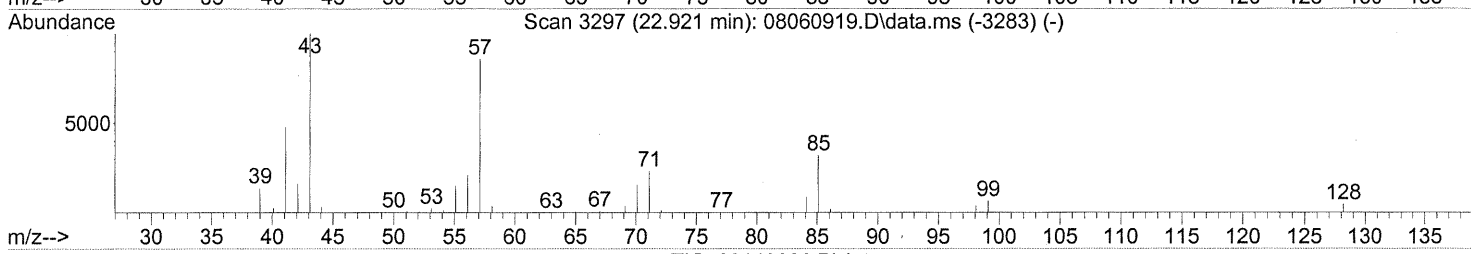
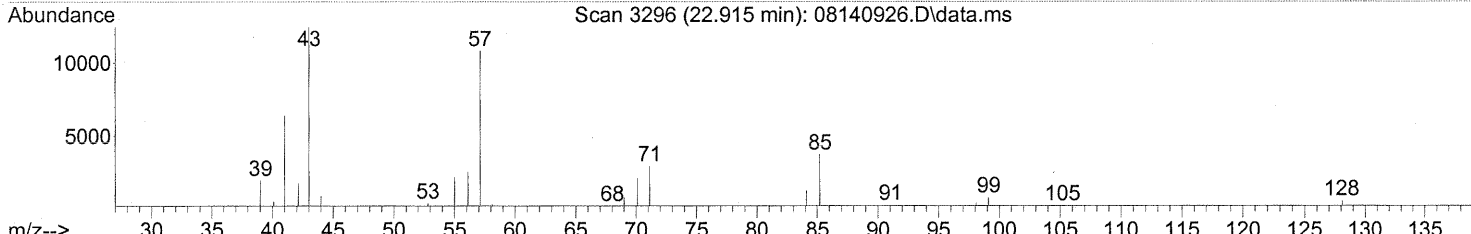
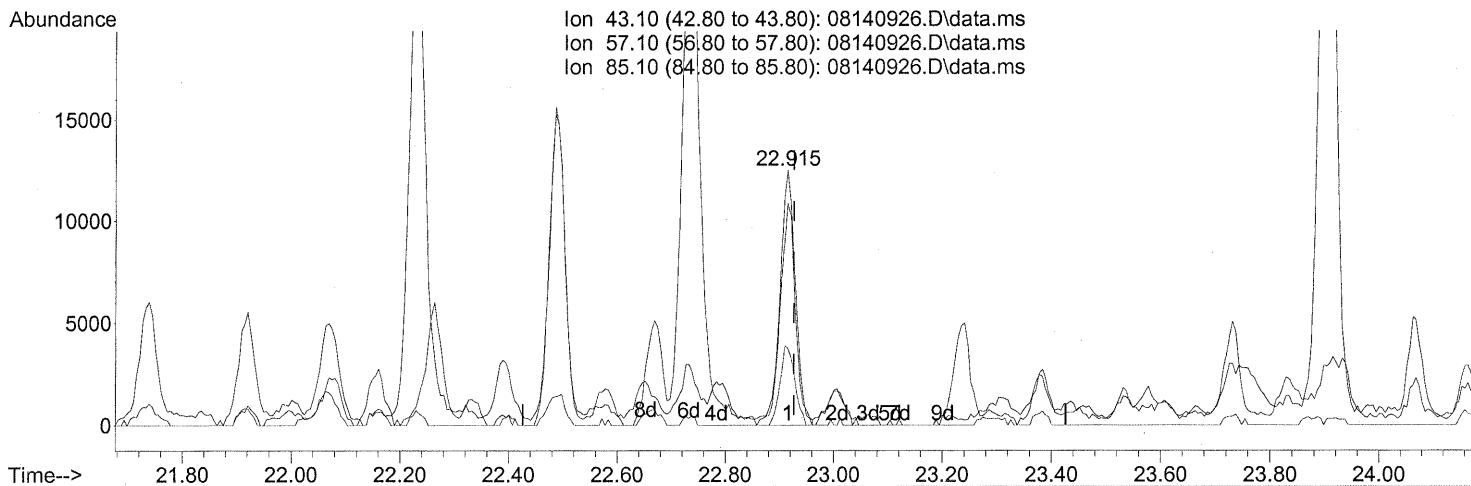
(70) o-Xylene (T)
 22.652min (-0.023) 3.90ng
 response 153355

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



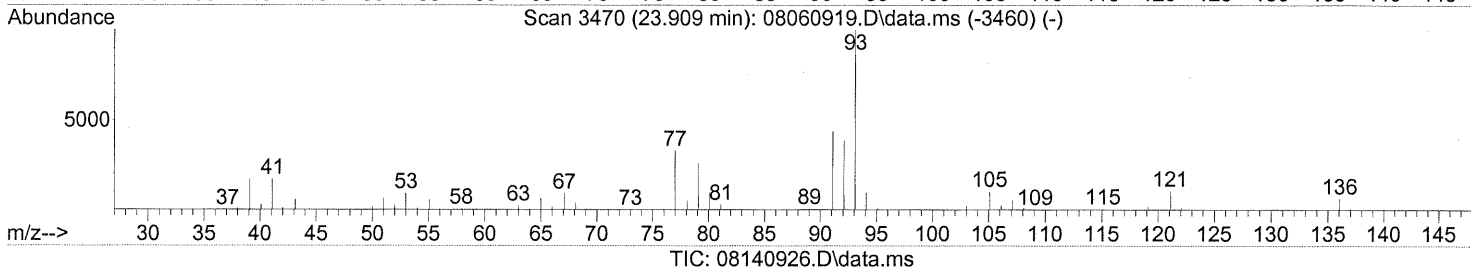
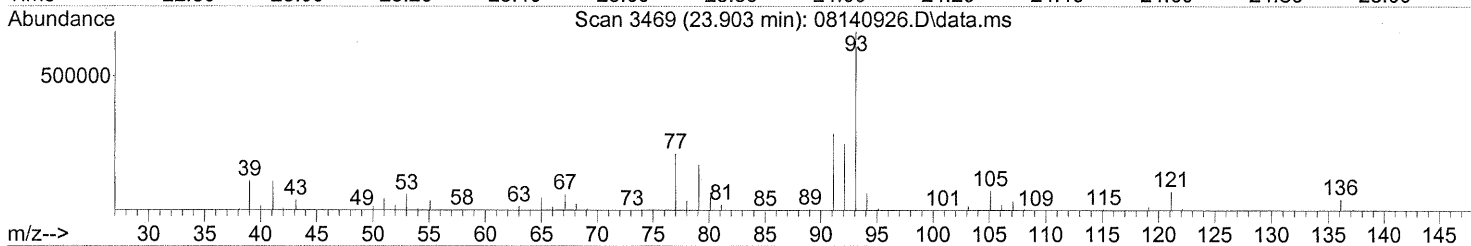
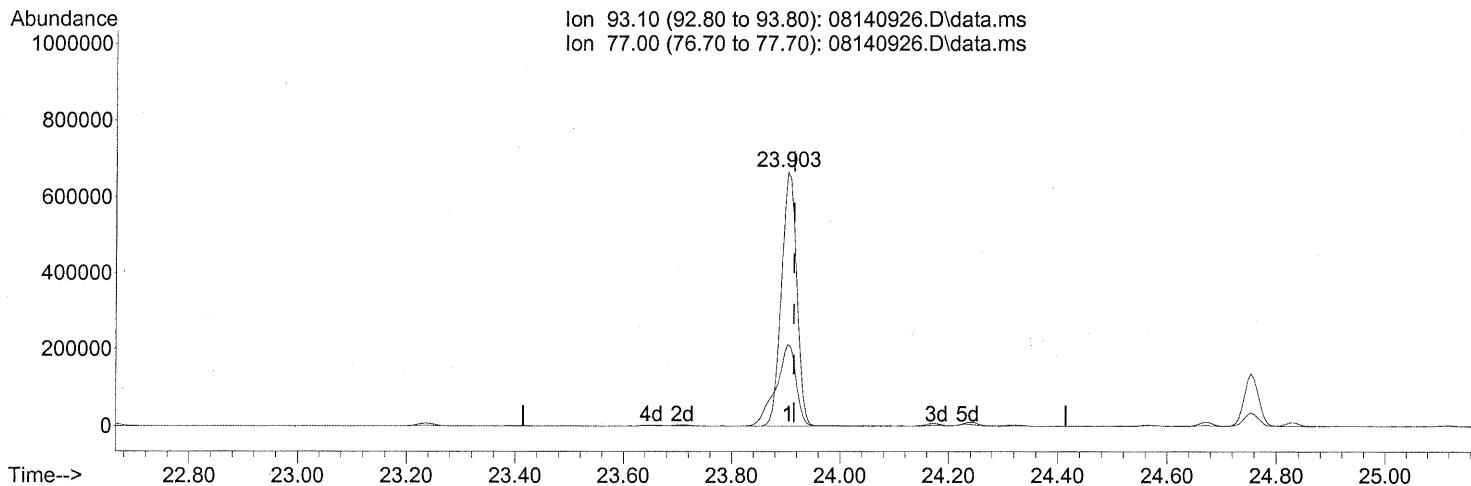
(71) n-Nonane (T)
 22.915min (-0.011) 0.95ng
 response 24781

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	85.78
85.10	30.40	29.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(75) alpha-Pinene (T)

23.903min (-0.011) 51.59ng

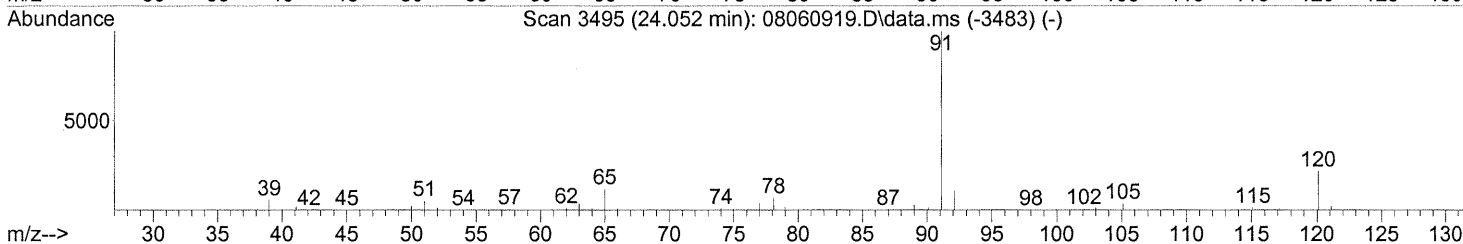
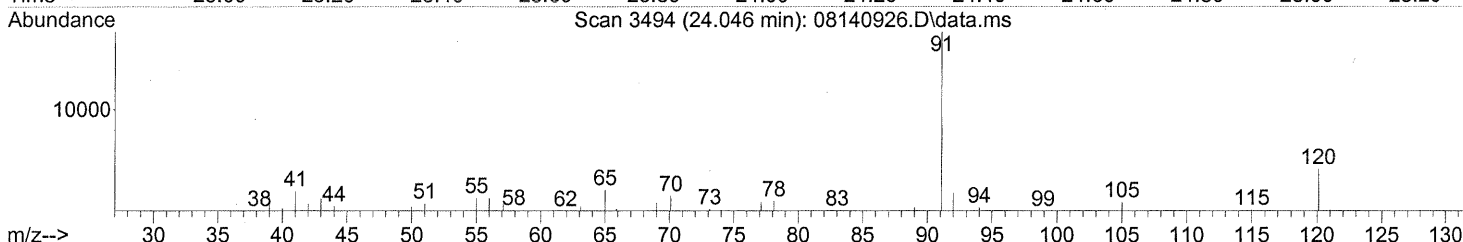
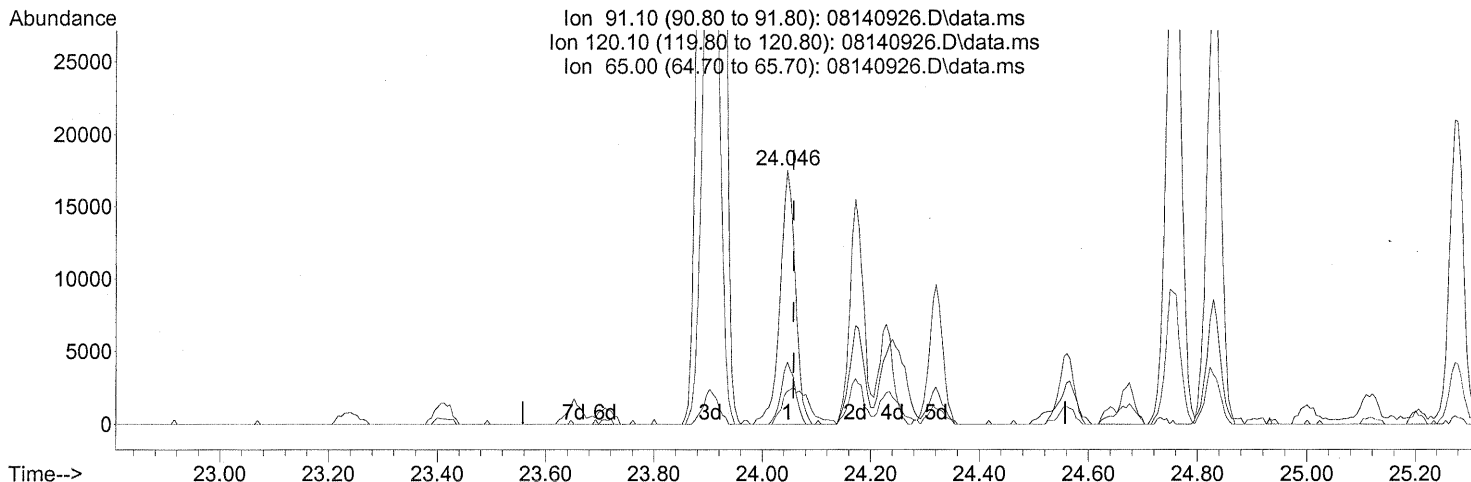
response 1314274

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	41.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.046min (-0.011) 0.55ng

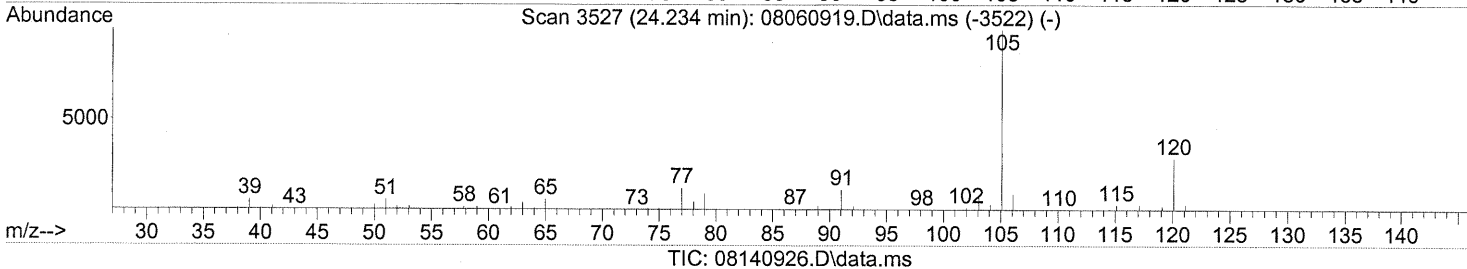
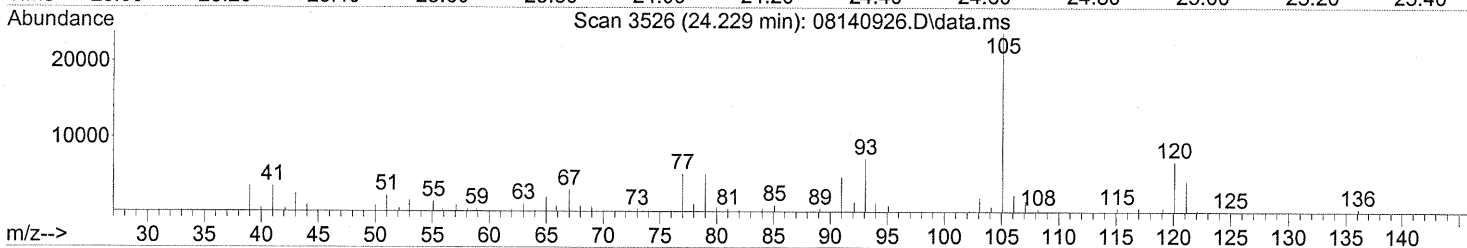
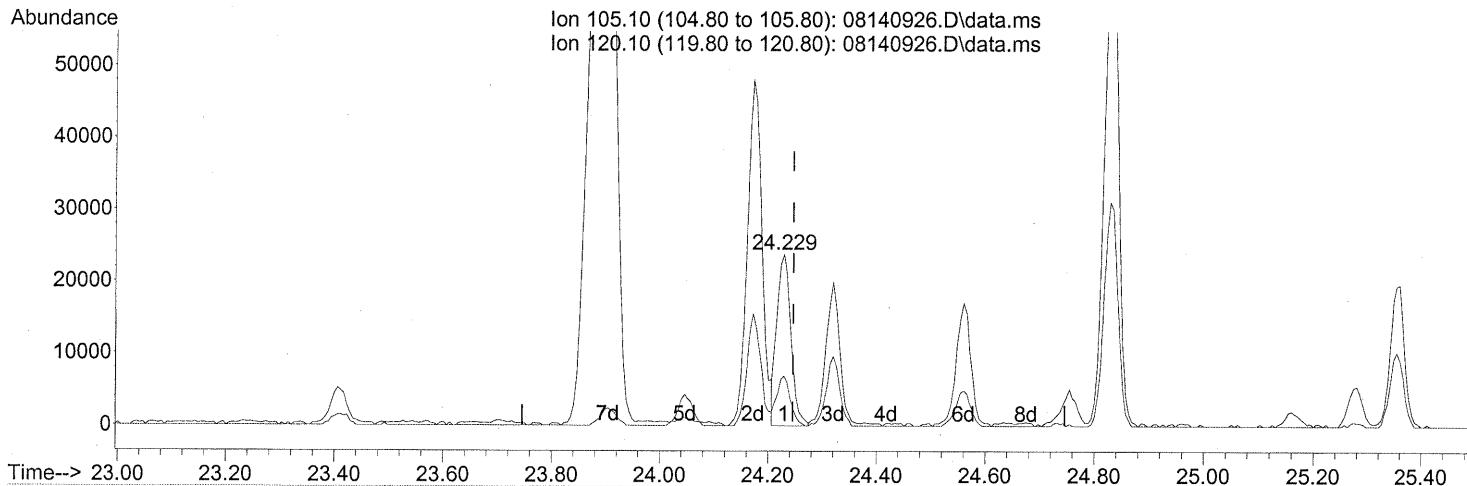
response 34380

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	22.38
65.00	12.00	24.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.229min (-0.017) 0.93ng

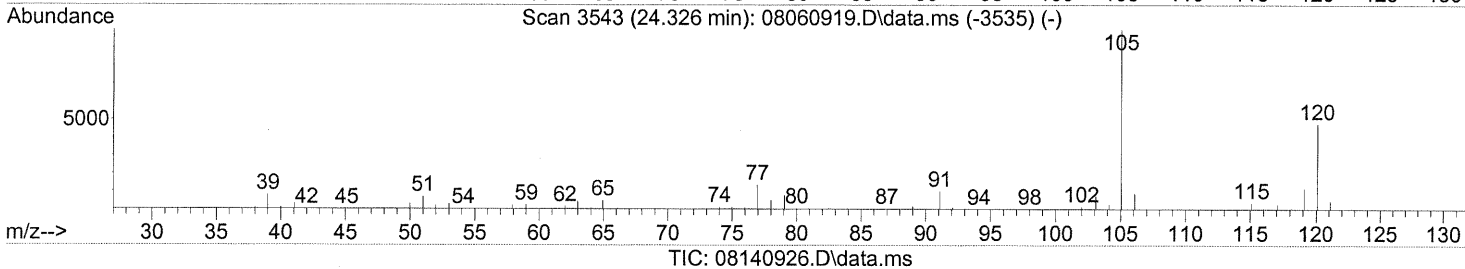
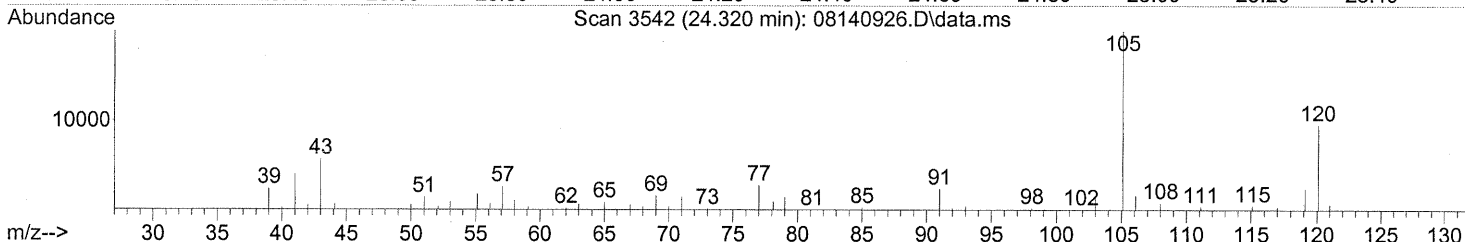
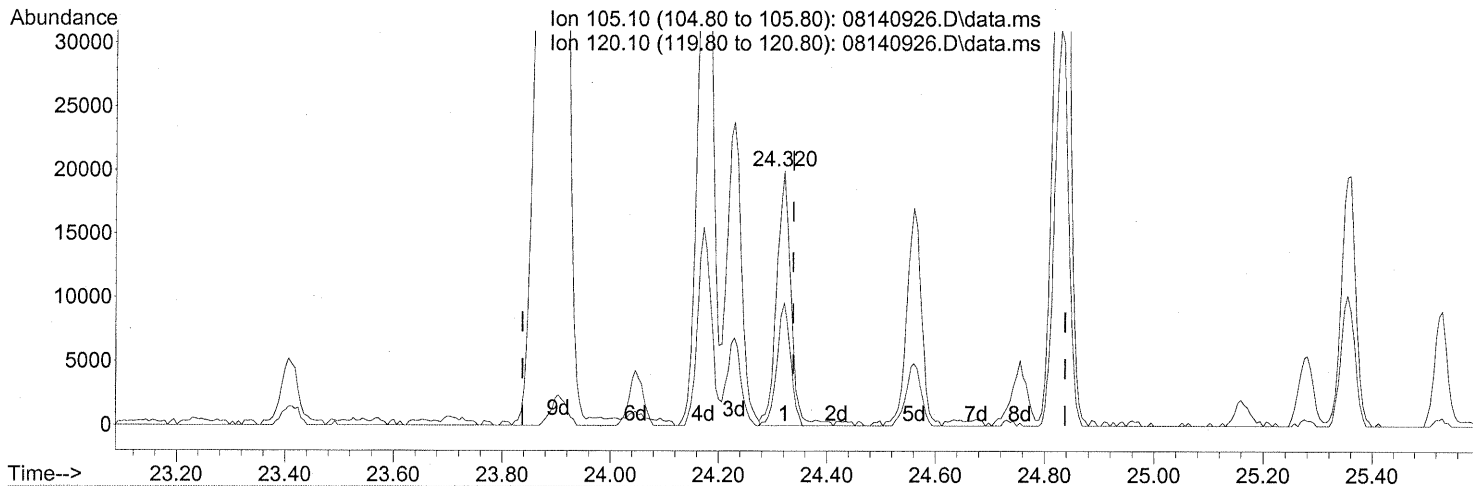
response 42940

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	27.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 0.94ng

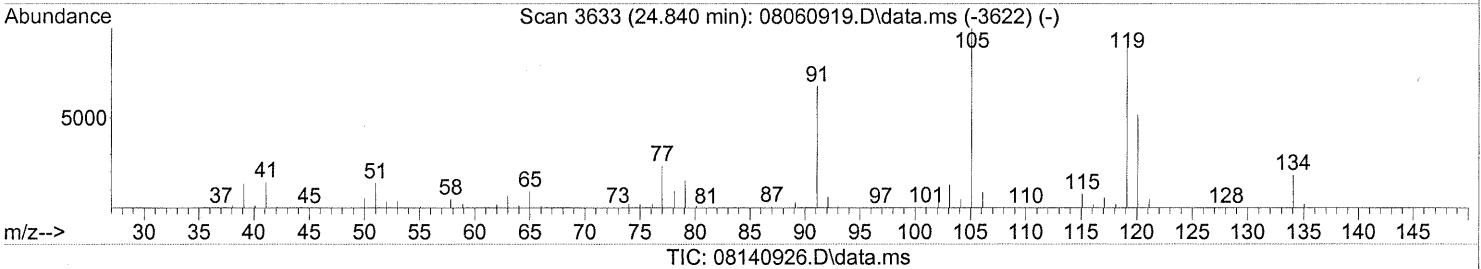
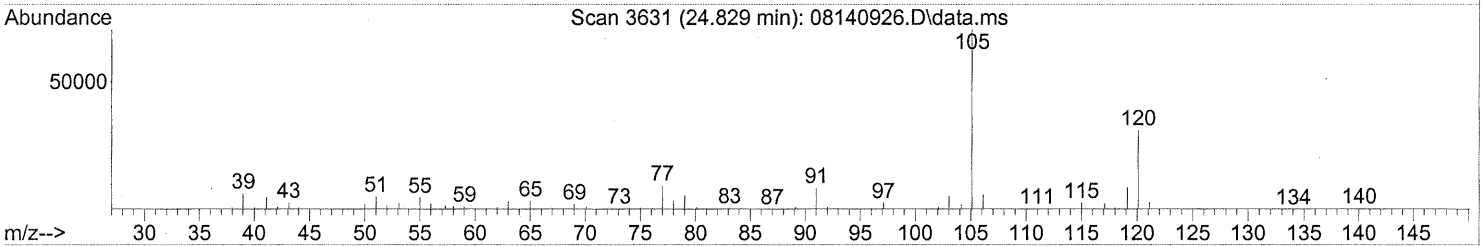
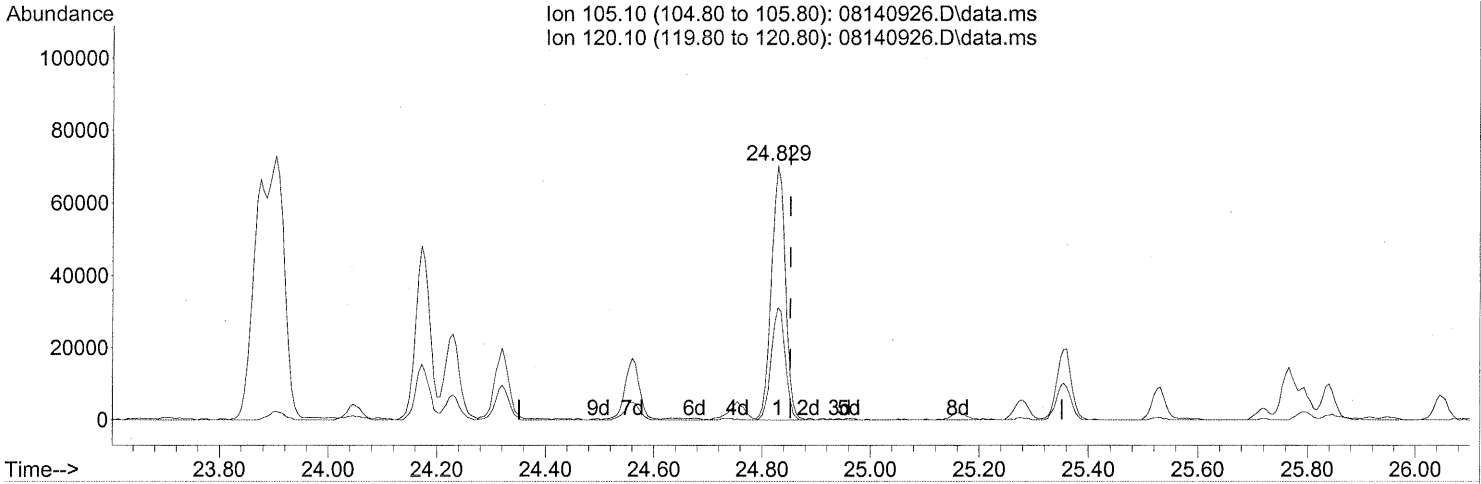
response 36498

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	45.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.829min (-0.023) 3.15ng

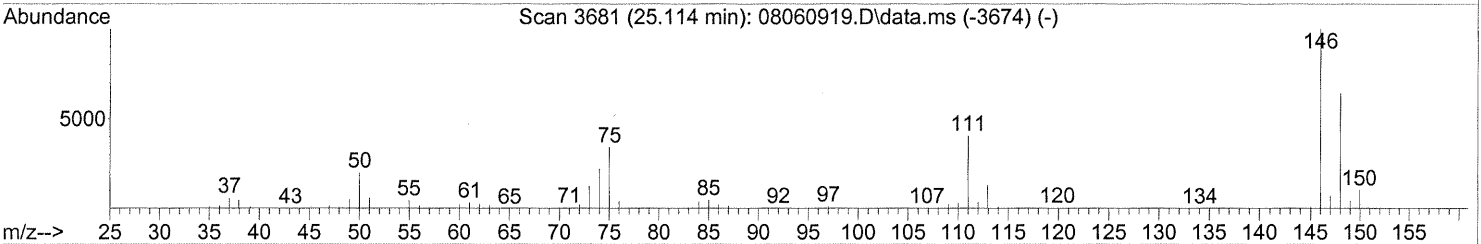
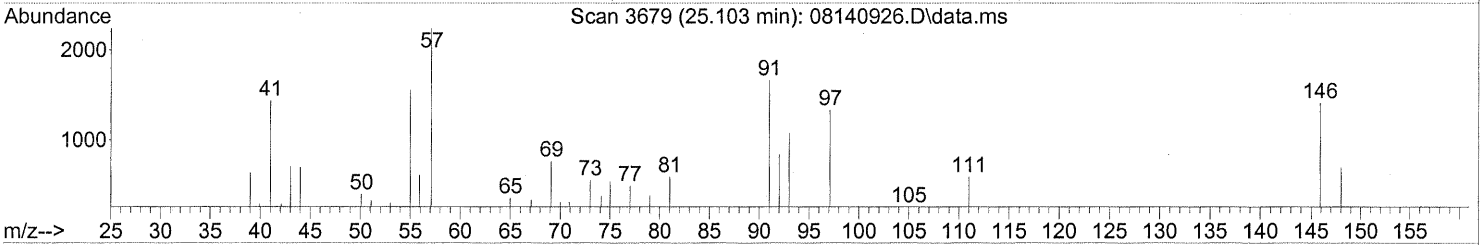
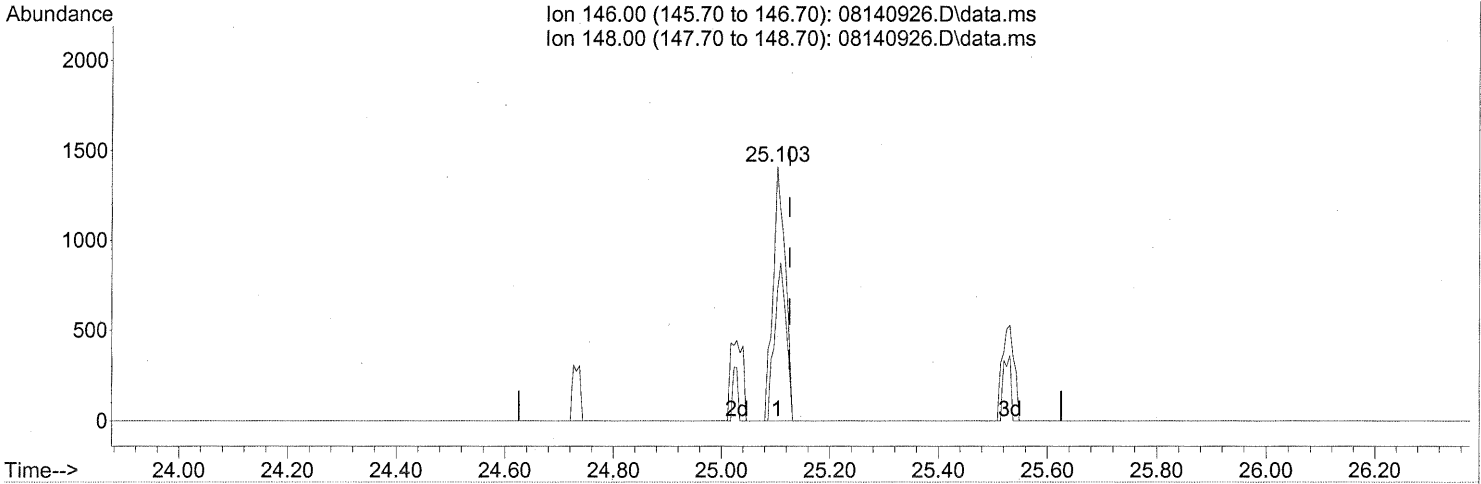
response 124708

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
 Operator : WA
 Sample : P0902721-005 (1000mL)
 Misc : Env. Health & Engineering 100218
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 07:22:40 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140926.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.10ng

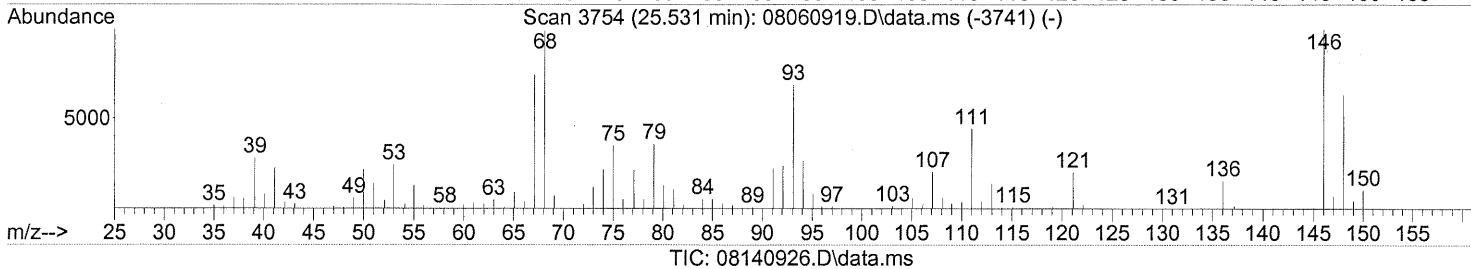
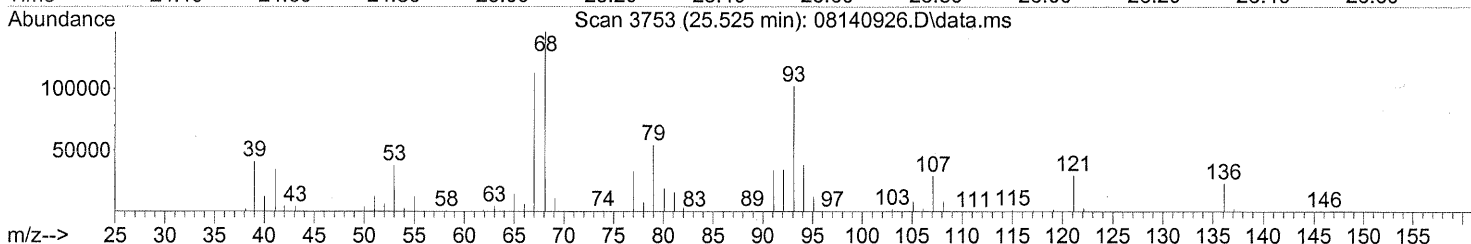
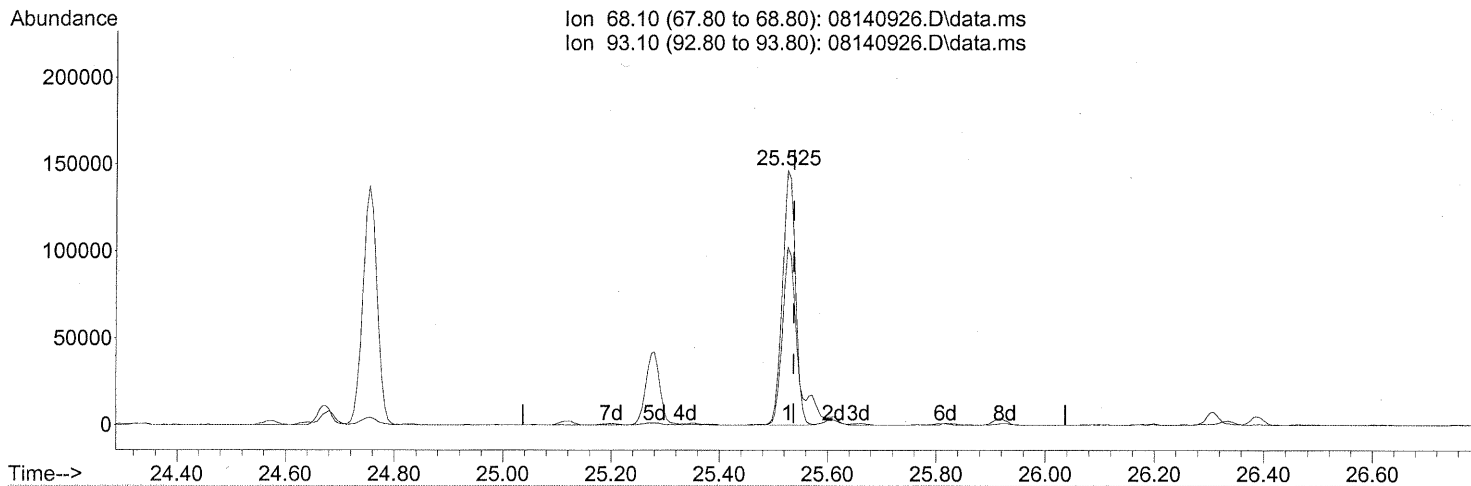
response 2217

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	58.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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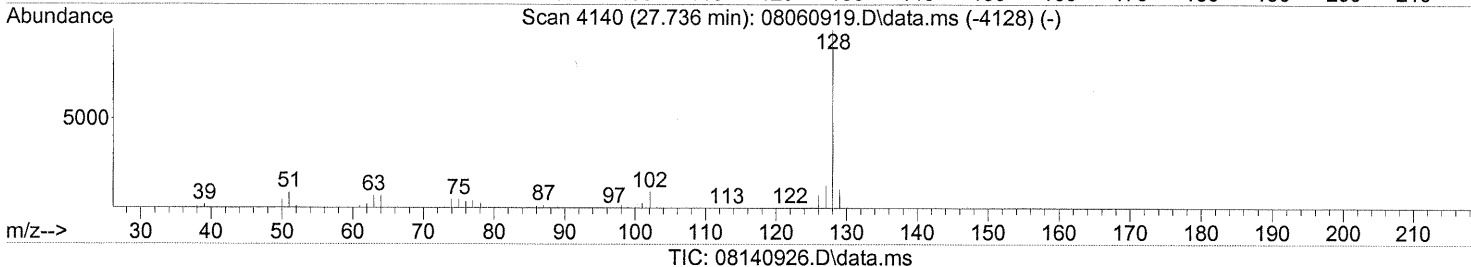
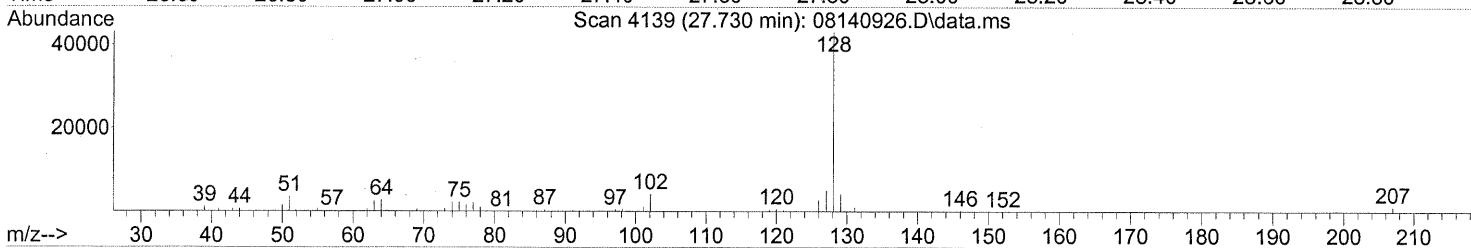
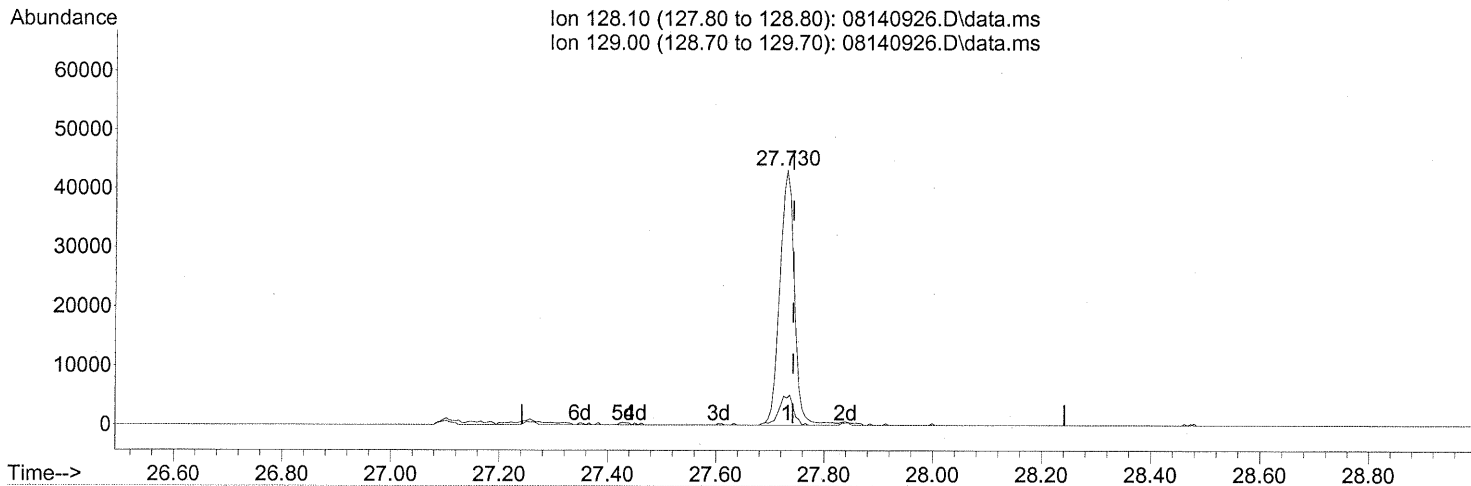
(91) d-Limonene (T)
 25.525min (-0.011) 14.54ng
 response 244669

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	84.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140926.D
 Acq On : 14 Aug 2009 23:33
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 Sample : P0902721-005 (1000mL)
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(95) Naphthalene (T)
 27.730min (-0.011) 1.50ng
 response 80627

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.73
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100219

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-006

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: AC00518

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/15/09

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

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: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100219

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-006

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: AC00518

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/15/09

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

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: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100219
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-006

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: AC00518

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/15/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

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

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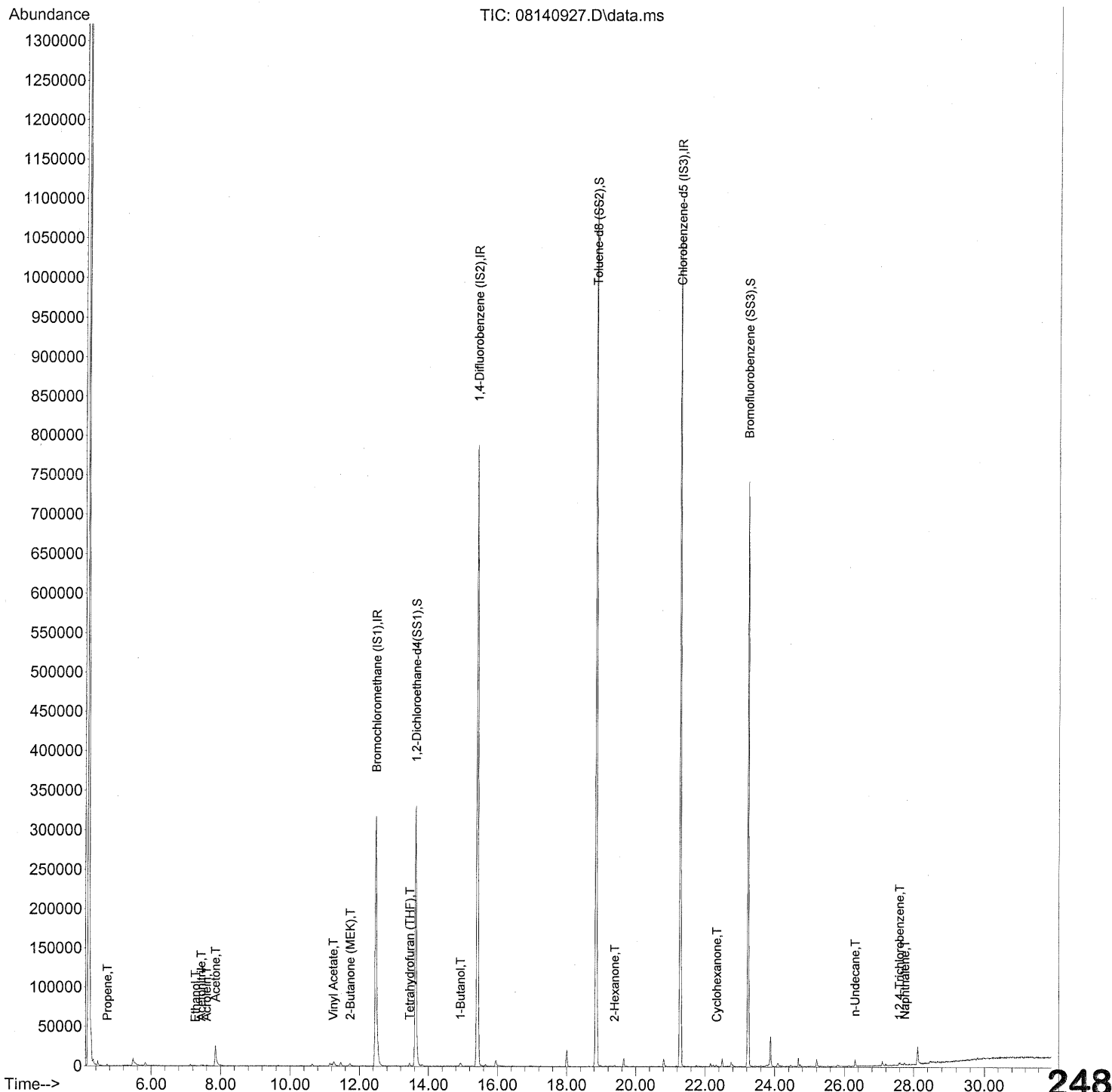
Verified By: _____

Date: 8/24/09

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Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140927.D
Acq On : 15 Aug 2009 00:15
Operator : WA
Sample : P0902721-006 (1000mL)
Misc : Env. Health & Engineering 100219
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 20 09:29:59 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\14\
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LM 8/12/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	179663	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	899017	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	437878	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	358806	22.977	ng	-0.03
Spiked Amount	25.000		Recovery	=	91.92%	✓
57) Toluene-d8 (SS2)	18.85	98	961491	25.130	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.52%	✓
73) Bromofluorobenzene (SS3)	23.23	174	237849	23.573	ng	-0.01
Spiked Amount	25.000		Recovery	=	94.28%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	791	0.064	ng	90
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	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	7.27	45	580	0.074	ng	# 37
11) Acetonitrile	7.43	41	2764	0.121	ng	81
12) Acrolein	7.59	56	1281	0.215	ng	# 34
13) Acetone	7.85	58	18713	2.538	ng	# 71
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.38	45	395	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	9.26	84	107	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.65	76	1291	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	11.24	86	905	0.603	ng	# 1
27) 2-Butanone (MEK)	11.73	72	1367	0.205	ng	# 44
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	13.46	72	876	0.123 ng	#	52
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	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	14.93	56	4047	0.347	ng	82
41) Benzene	14.87	78	1157	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.42	84	393	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) 2,2,4-Trimethylpentane...	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	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	1546	N.D.		
59) 2-Hexanone	19.38	43	2209	0.088 ng		79
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.93	43	90	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	0.00	91	0	N.D.		
67) m- & p-Xylenes	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	22.66	91	87	N.D.		
71) n-Nonane	22.94	43	187	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.23	105	309	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.19	105	90	N.D.		
78) 4-Ethyltoluene	24.22	105	100	N.D.		
79) 1,3,5-Trimethylbenzene	24.33	105	129	N.D.		

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140927.D
 Acq On : 15 Aug 2009 00:15
 Operator : WA
 Sample : P0902721-006 (1000mL)
 Misc : Env. Health & Engineering 100219
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 20 09:29:59 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

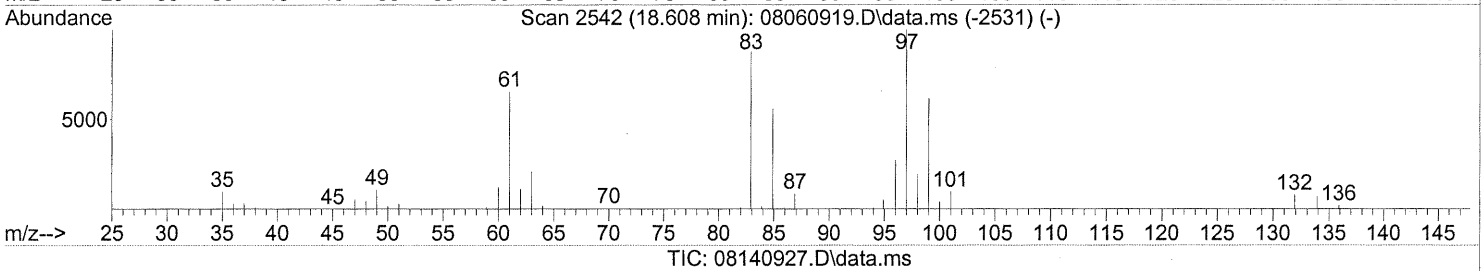
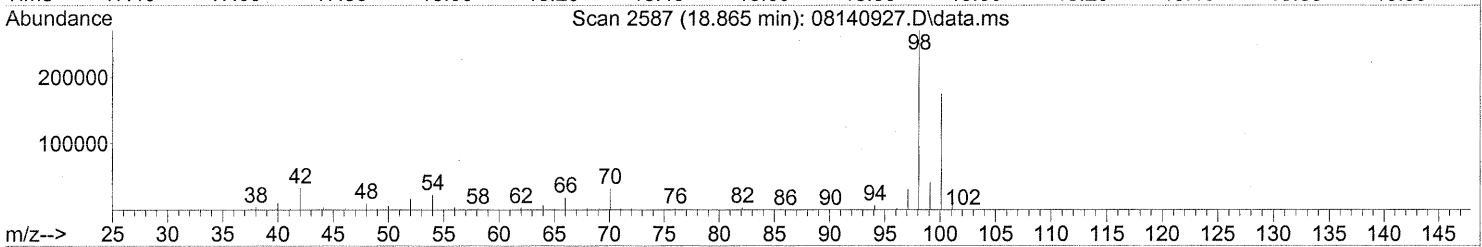
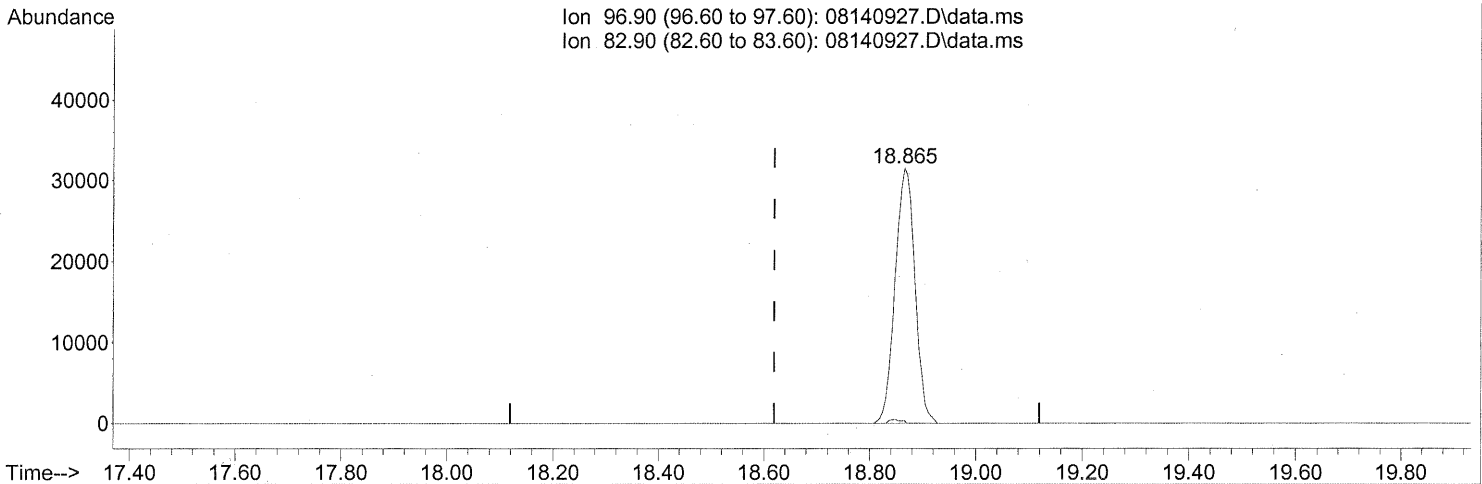
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.33	105	129	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	24.74	57	90	N.D.		
84) Benzyl Chloride	25.01	91	380	N.D.		
85) 1,3-Dichlorobenzene	25.11	146	234	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	234	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	25.81	105	1194	N.D.		
90) 1,2-Dichlorobenzene	25.11	146	234	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	26.31	57	1996	0.082 ng	#	45
94) 1,2,4-Trichlorobenzene	27.59	180	784	0.068 ng	#	84
95) Naphthalene	27.74	128	4449	0.093 ng		83
96) n-Dodecane	27.68	57	465	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.34	55	1218	0.078 ng	#	81
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	25.87	91	176	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140927.D
 Acq On : 15 Aug 2009 00:15
 Operator : WA
 Sample : P0902721-006 (1000mL)
 Misc : Env. Health & Engineering 100219
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 15 07:21:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.49ng

response 82378

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.87#
0.00	0.00	0.00
0.00	0.00	0.00

FP LH 8/20/09

can 8/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99952

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-007

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: AC00635

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/15/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.1 **Final Pressure (psig):** 4.5

Canister Dilution Factor: 1.41

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	2.6	0.71	1.5	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.71	0.59	0.14	
74-87-3	Chloromethane	0.83	0.14	0.40	0.068	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.71	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.055	
106-99-0	1,3-Butadiene	ND	0.14	ND	0.064	
74-83-9	Bromomethane	0.33	0.14	0.084	0.036	
75-00-3	Chloroethane	ND	0.14	ND	0.053	
64-17-5	Ethanol	420	7.1	230	3.7	
75-05-8	Acetonitrile	230	0.71	140	0.42	E
107-02-8	Acrolein	5.6	0.71	2.4	0.31	
67-64-1	Acetone	110	7.1	46	3.0	
75-69-4	Trichlorofluoromethane	1.4	0.14	0.25	0.025	
67-63-0	2-Propanol (Isopropyl Alcohol)	12	0.71	4.9	0.29	
107-13-1	Acrylonitrile	ND	0.71	ND	0.32	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.036	
75-09-2	Methylene Chloride	2.5	0.71	0.71	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	ND	0.045	
76-13-1	Trichlorotrifluoroethane	0.75	0.14	0.098	0.018	
75-15-0	Carbon Disulfide	1.2	0.71	0.37	0.23	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.036	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	ND	0.039	
108-05-4	Vinyl Acetate	14	7.1	3.9	2.0	V
78-93-3	2-Butanone (MEK)	8.7	0.71	2.9	0.24	

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.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99952
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-007

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: AC00635

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/15/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.1 Final Pressure (psig): 4.5

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.036	
141-78-6	Ethyl Acetate	6.3	0.71	1.8	0.20	
110-54-3	n-Hexane	1.6	0.71	0.47	0.20	
67-66-3	Chloroform	1.1	0.14	0.22	0.029	
109-99-9	Tetrahydrofuran (THF)	ND	0.71	ND	0.24	
107-06-2	1,2-Dichloroethane	6.4	0.14	1.6	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.026	
71-43-2	Benzene	2.1	0.14	0.65	0.044	
56-23-5	Carbon Tetrachloride	0.59	0.14	0.094	0.022	
110-82-7	Cyclohexane	ND	0.71	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.031	
75-27-4	Bromodichloromethane	0.23	0.14	0.034	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.71	ND	0.20	
80-62-6	Methyl Methacrylate	ND	0.71	ND	0.17	
142-82-5	n-Heptane	1.1	0.71	0.26	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	ND	0.16	
108-10-1	4-Methyl-2-pentanone	3.6	0.71	0.87	0.17	
10061-02-6	trans-1,3-Dichloropropene	ND	0.71	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	21	0.71	5.5	0.19	
591-78-6	2-Hexanone	1.0	0.71	0.24	0.17	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	5.1	0.71	1.1	0.15	

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: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99952
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-007

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: AC00635

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/15/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.1 Final Pressure (psig): 4.5

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.91	0.71	0.19	0.15	
127-18-4	Tetrachloroethene	51	0.14	7.5	0.021	
108-90-7	Chlorobenzene	ND	0.14	ND	0.031	
100-41-4	Ethylbenzene	6.2	0.71	1.4	0.16	
179601-23-1	m,p-Xylenes	19	0.71	4.4	0.16	
75-25-2	Bromoform	ND	0.71	ND	0.068	
100-42-5	Styrene	4.2	0.71	0.98	0.17	
95-47-6	o-Xylene	5.0	0.71	1.2	0.16	
111-84-2	n-Nonane	1.2	0.71	0.23	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.021	
98-82-8	Cumene	ND	0.71	ND	0.14	
80-56-8	alpha-Pinene	89	0.71	16	0.13	
103-65-1	n-Propylbenzene	0.96	0.71	0.19	0.14	
622-96-8	4-Ethyltoluene	1.7	0.71	0.35	0.14	
108-67-8	1,3,5-Trimethylbenzene	1.7	0.71	0.35	0.14	
95-63-6	1,2,4-Trimethylbenzene	6.3	0.71	1.3	0.14	
100-44-7	Benzyl Chloride	ND	0.14	ND	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.14	ND	0.023	
106-46-7	1,4-Dichlorobenzene	ND	0.14	ND	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.14	ND	0.023	
5989-27-5	d-Limonene	18	0.71	3.2	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.71	ND	0.073	
120-82-1	1,2,4-Trichlorobenzene	ND	0.71	ND	0.095	
91-20-3	Naphthalene	0.93	0.71	0.18	0.13	
87-68-3	Hexachlorobutadiene	ND	0.71	ND	0.066	

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: _____

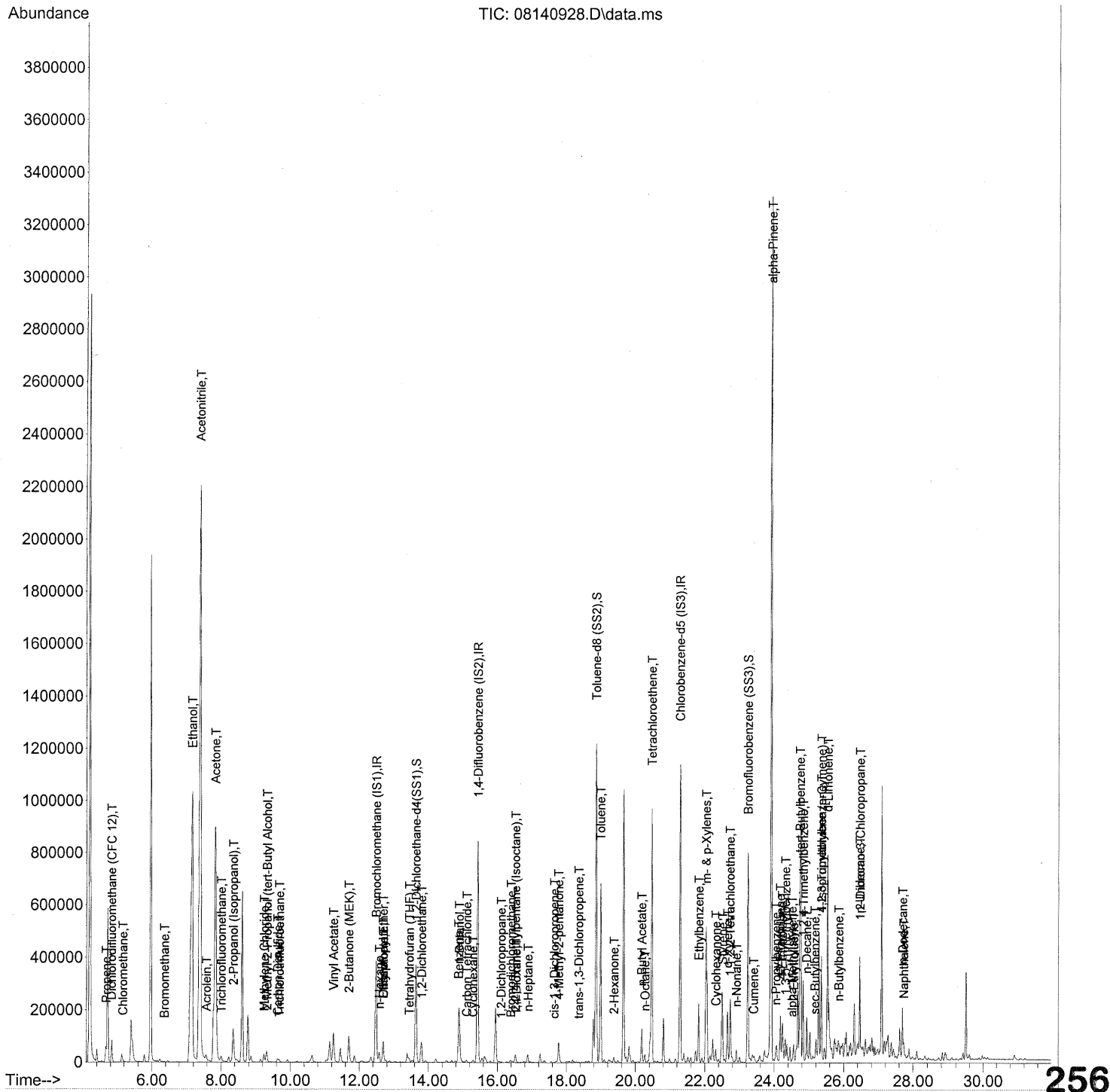
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8/24/09

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 09:34:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952 ✓
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 09:34:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	193975	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	972909	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	476930	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	388049	23.016	ng	-0.03
Spiked Amount	25.000		Recovery	=	92.08%	✓
57) Toluene-d8 (SS2)	18.85	98	1041387	24.989	ng	-0.01
Spiked Amount	25.000		Recovery	=	99.96%	✓
73) Bromofluorobenzene (SS3)	23.24	174	257681	23.447	ng	0.00
Spiked Amount	25.000		Recovery	=	93.80%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	24158	1.815	ng	92
3) Dichlorodifluoromethan...	4.83	85	45157	2.076	ng	99
4) Chloromethane	5.16	50	8649	0.592	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	5.38	135	441	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.77	54	176	N.D.		
8) Bromomethane	6.36	94	1980	0.232	ng	99
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.16	45	2543062	301.402	ng	100
11) Acetonitrile	7.39	41	4107635	166.234	ng	E 100
12) Acrolein	7.57	56	25429	3.959	ng	94
13) Acetone	7.83	58	614337	77.168	ng	98
14) Trichlorofluoromethane	8.01	101	19818	1.008	ng	99
15) 2-Propanol (Isopropanol)	8.35	45	265018	8.471	ng	100
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.33	59	7355	0.265	ng	# 1
19) Methylene Chloride	9.25	84	18606	1.740	ng	90
20) 3-Chloro-1-propene (Al...	9.41	41	96	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3827	0.535	ng	96
22) Carbon Disulfide	9.63	76	31097	0.825	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	11.14	73	1085	N.D.		
26) Vinyl Acetate	11.24	86	15930	9.833	ng	# 61
27) 2-Butanone (MEK)	11.69	72	44170	6.145	ng	95
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.69	87	1194	0.124	ng	# 1
30) Ethyl Acetate	12.68	61	16753	4.474	ng	93
31) n-Hexane	12.58	57	22421	1.170	ng	95

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 09:34:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	12.70	83	12671	0.751 ng	99
34) Tetrahydrofuran (THF)	13.44	72	3271	0.427 ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	13.80	62	69764	4.526 ng	98
38) 1,1,1-Trichloroethane	14.19	97	113	N.D.	
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	14.89	56	149191	11.815 ng	81
41) Benzene	14.87	78	62812	1.468 ng	99
42) Carbon Tetrachloride	15.11	117	5736	0.421 ng	96
43) Cyclohexane	15.29	84	4739	0.302 ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	
45) 1,2-Dichloropropane	16.10	63	801	0.075 ng	# 76
46) Bromodichloromethane	16.39	83	2304	0.163 ng	# 70
47) Trichloroethene	16.45	130	134	N.D.	
48) 1,4-Dioxane	16.54	88	557	0.068 ng	# 1
49) 2,2,4-Trimethylpentane...	16.52	57	32192	0.639 ng	93
50) Methyl Methacrylate	16.77	100	89	N.D.	
51) n-Heptane	16.89	71	8565	0.746 ng	98
52) cis-1,3-Dichloropropene	17.65	75	2077	0.117 ng	70
53) 4-Methyl-2-pentanone	17.77	58	25896	2.519 ng	99
54) trans-1,3-Dichloropropene	18.36	75	1648	0.097 ng	65
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d	
58) Toluene	18.98	91	601878	14.696 ng	99
59) 2-Hexanone	19.38	43	19352	0.711 ng	95
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	20.18	43	116040	3.615 ng	97
63) n-Octane	20.28	57	6354	0.642 ng	97
64) Tetrachloroethene	20.47	166	340938	35.974 ng	98
65) Chlorobenzene	21.34	112	854	N.D.	
66) Ethylbenzene	21.82	91	204789	4.374 ng	100
67) m- & p-Xylenes	22.04	91	518451	13.689 ng	98
68) Bromoform	22.14	173	151	N.D.	
69) Styrene	22.51	104	80925	2.956 ng	100
70) o-Xylene	22.65	91	134591	3.544 ng	99
71) n-Nonane	22.91	43	22028	0.873 ng	97
72) 1,1,2,2-Tetrachloroethane	22.72	83	1077	0.064 ng	# 1
74) Cumene	23.41	105	8236	0.172 ng	100
75) alpha-Pinene	23.90	93	1556587	63.310 ng	90
76) n-Propylbenzene	24.05	91	40882	0.678 ng	89
77) 3-Ethyltoluene	24.17	105	108649	2.370 ng	100
78) 4-Ethyltoluene	24.23	105	53966	1.215 ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	45322	1.210 ng	98

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 09:34:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

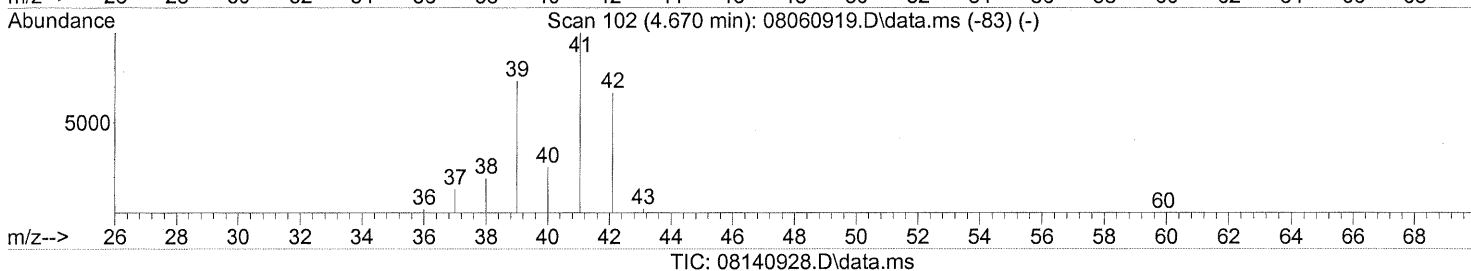
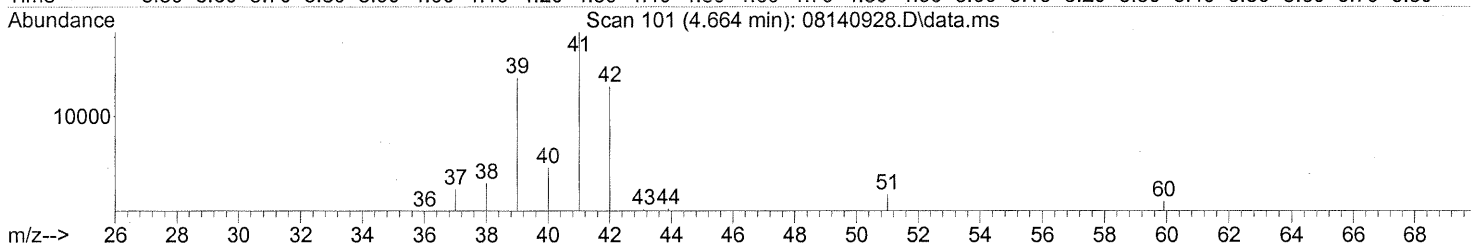
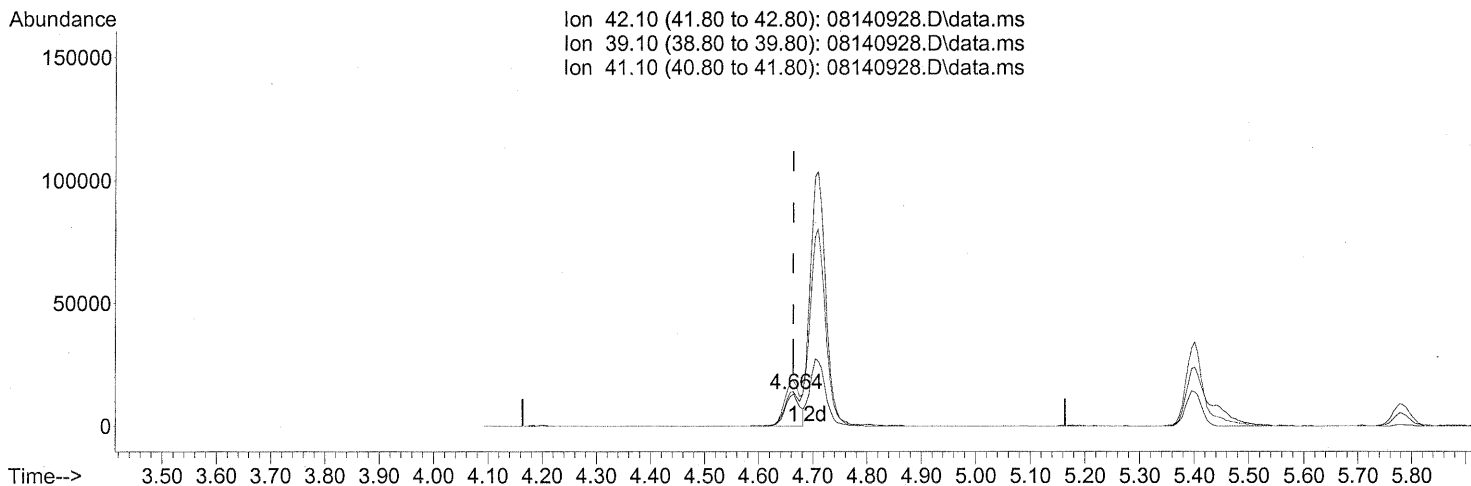
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1125	0.056	ng	# 1
81) 2-Ethyltoluene	24.56	105	43747	0.946	ng	100
82) 1,2,4-Trimethylbenzene	24.83	105	169380	4.434	ng	89
83) n-Decane	24.93	57	65690	2.645	ng	90
84) Benzyl Chloride	25.04	91	315	N.D.		
85) 1,3-Dichlorobenzene	25.11	146	680	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	680	N.D.		
87) sec-Butylbenzene	25.17	105	5120	0.099	ng	# 78
88) 4-Isopropyltoluene (p-...	25.35	119	162509	3.531	ng	95
89) 1,2,3-Trimethylbenzene	25.35	105	49138	1.263	ng	71
90) 1,2-Dichlorobenzene	25.11	146	680	N.D.		
91) d-Limonene	25.53	68	207643	12.781	ng	91
92) 1,2-Dibromo-3-Chloropr...	26.46	157	389	0.062	ng	# 1
93) n-Undecane	26.46	57	123641	4.679	ng	87
94) 1,2,4-Trichlorobenzene	27.59	180	95	N.D.		
95) Naphthalene	27.73	128	34279	0.661	ng	94
96) n-Dodecane	27.70	57	63227	2.060	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	25087	1.478	ng	99
99) tert-Butylbenzene	24.73	119	13542	0.366	ng	99
100) n-Butylbenzene	25.86	91	19372	0.455	ng	# 47

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 1.81ng

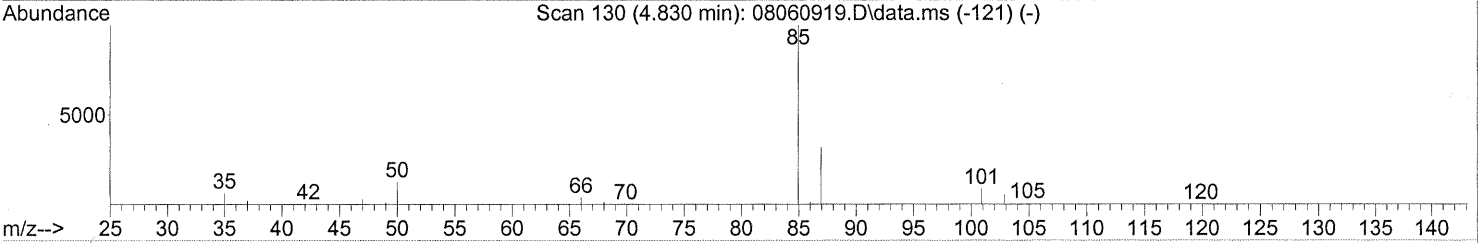
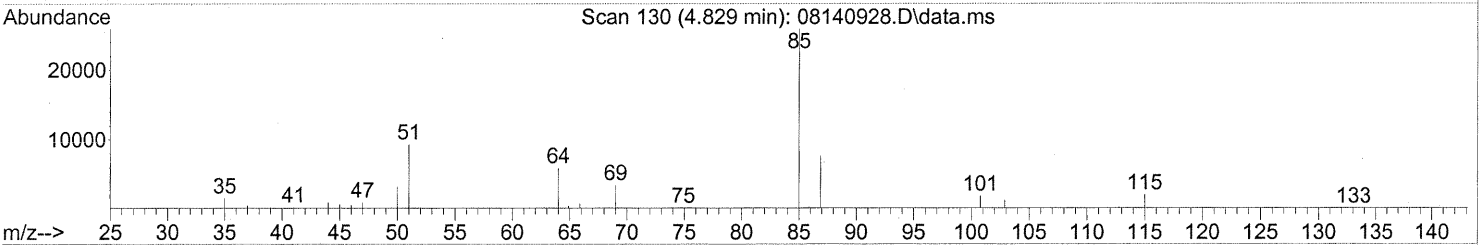
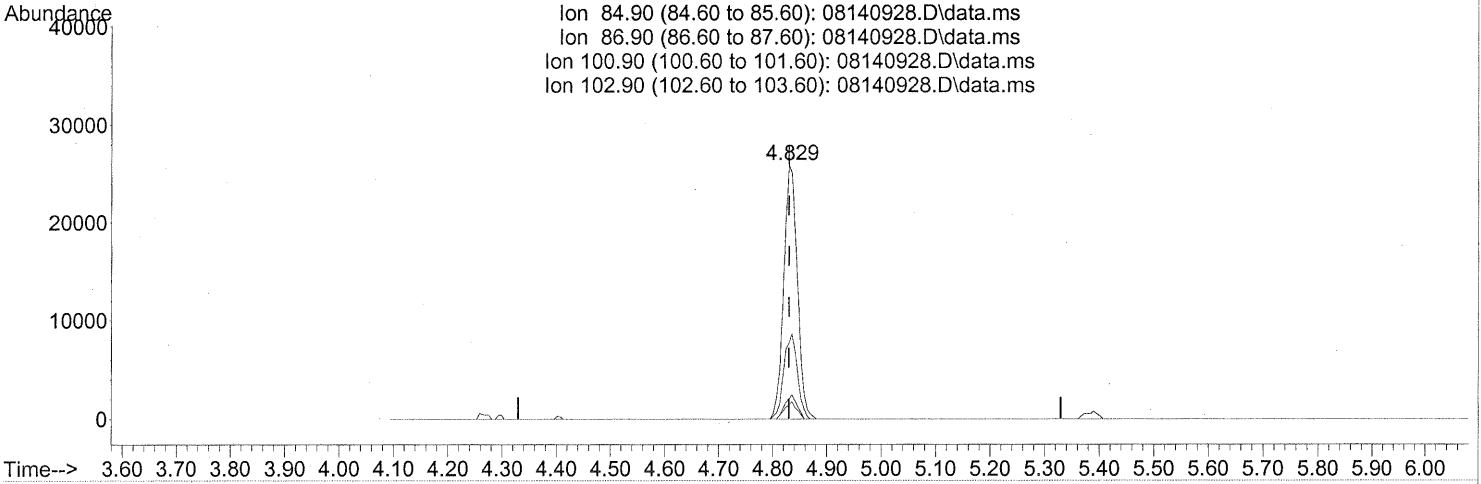
response 24158

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	104.91
41.10	150.20	138.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.829min (+0.000) 2.08ng

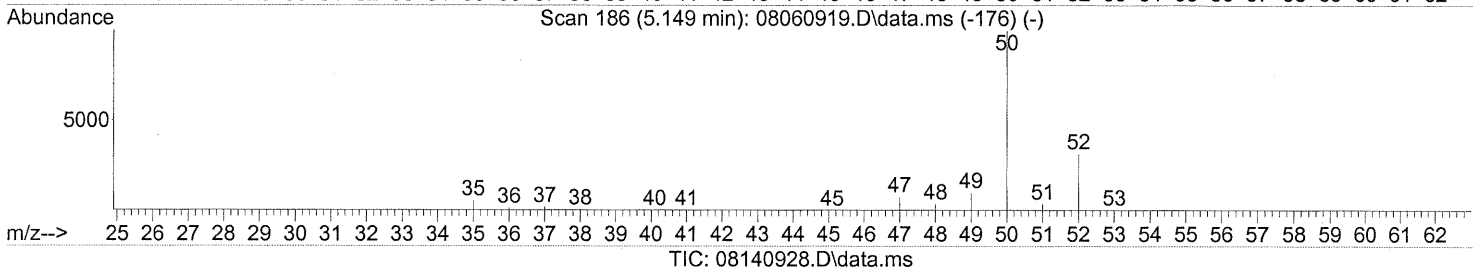
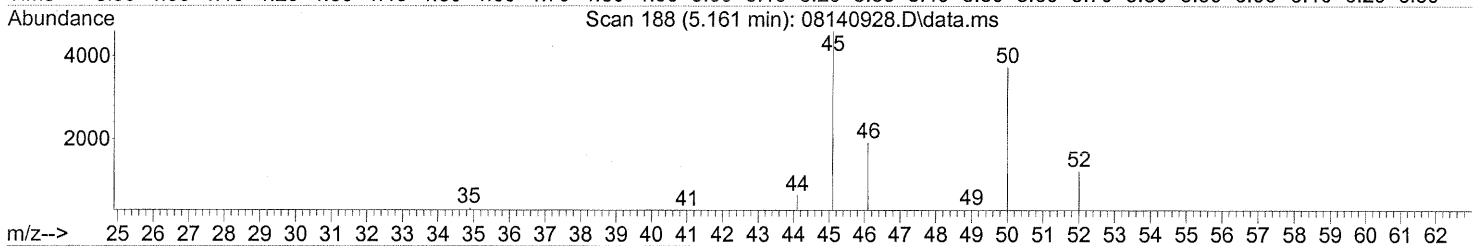
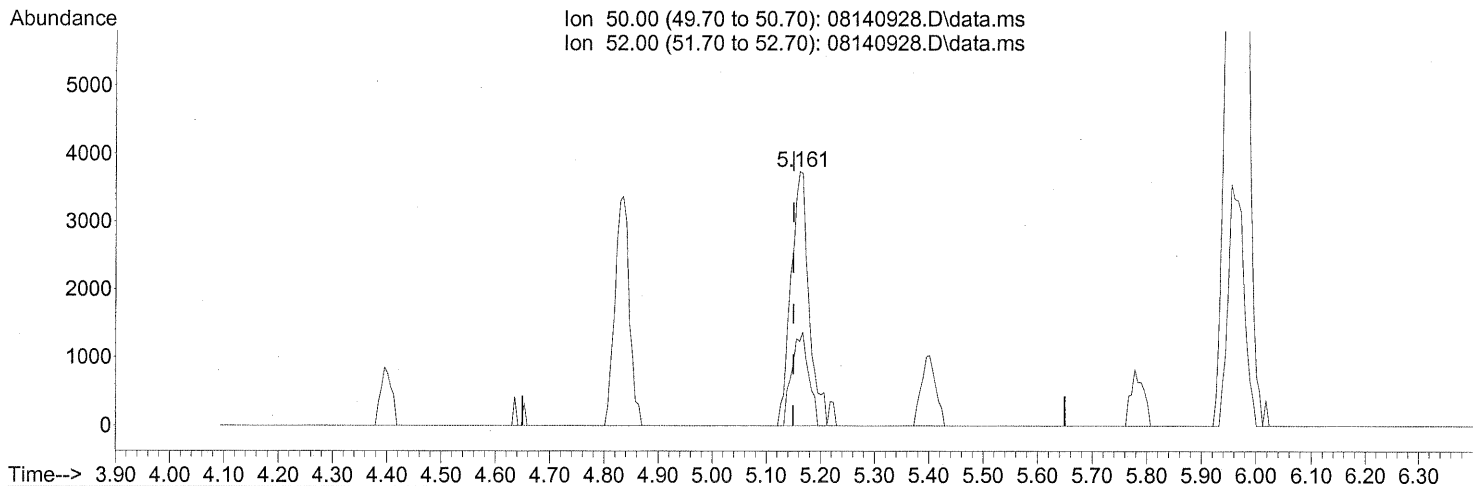
response 45157

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	33.43
100.90	8.80	8.49
102.90	5.20	5.97

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.161min (+0.011) 0.59ng

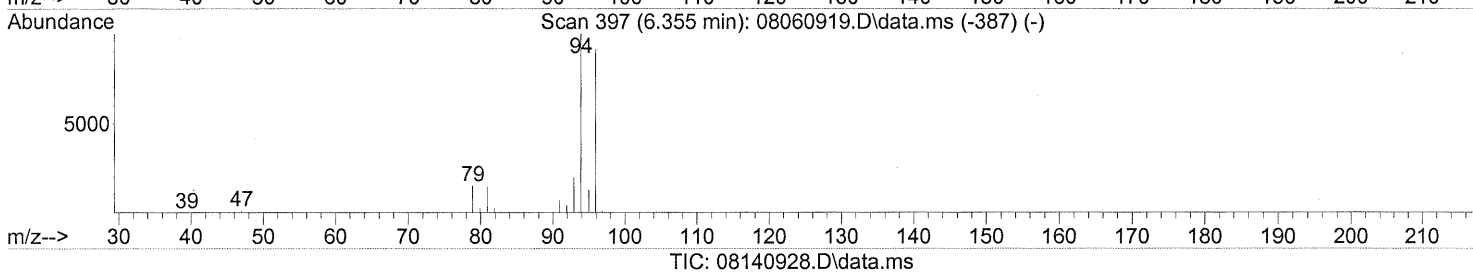
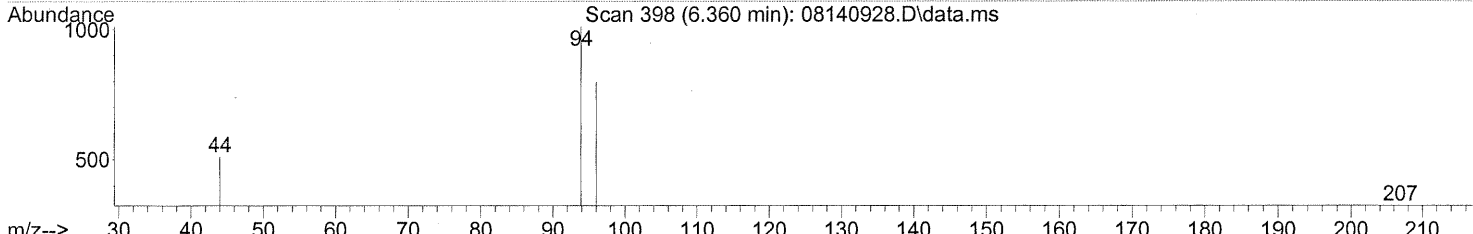
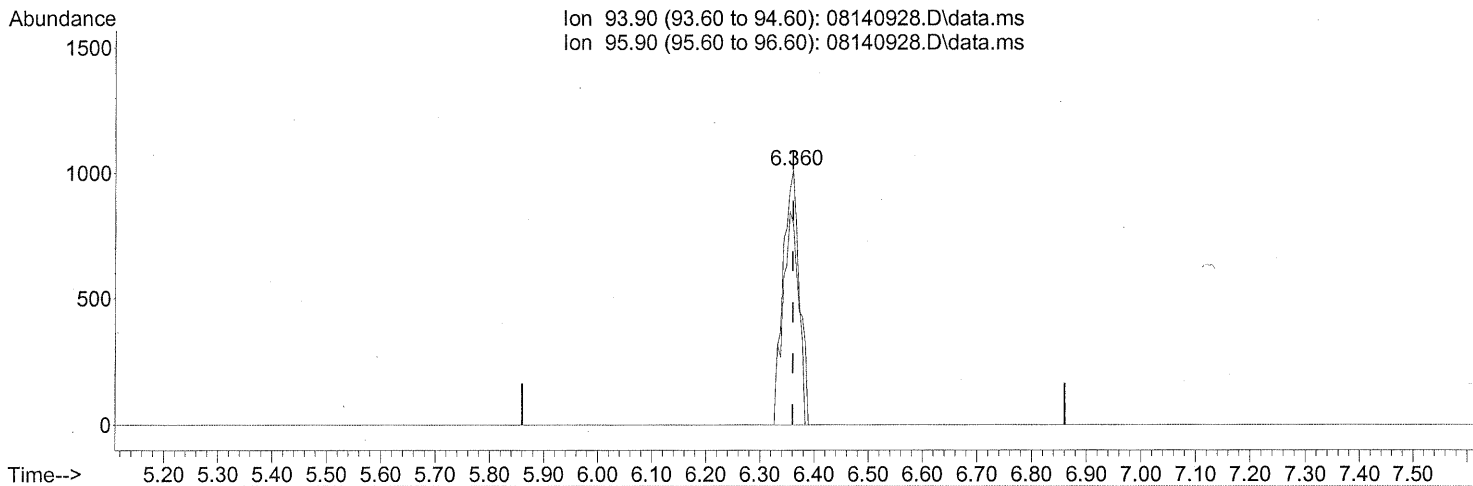
response 8649

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	34.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



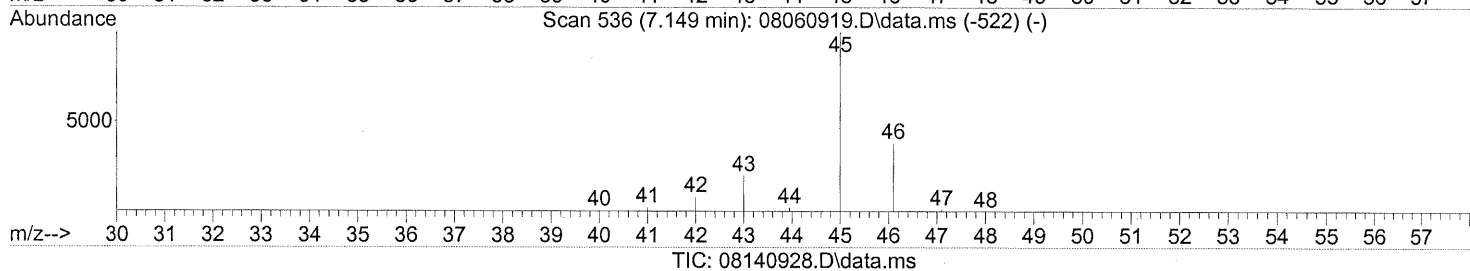
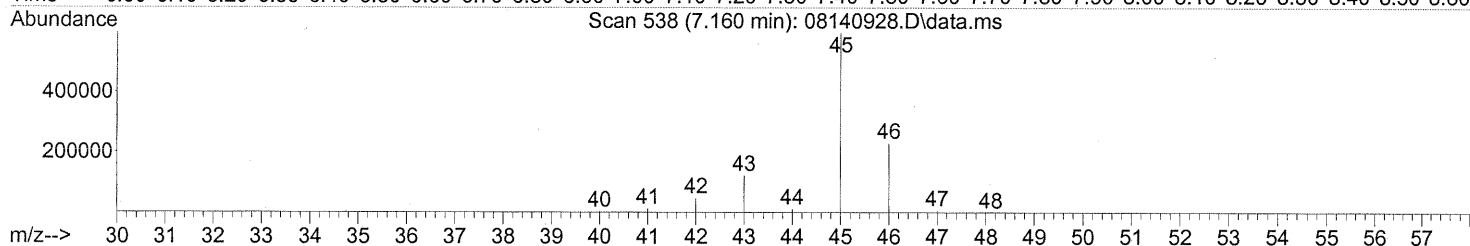
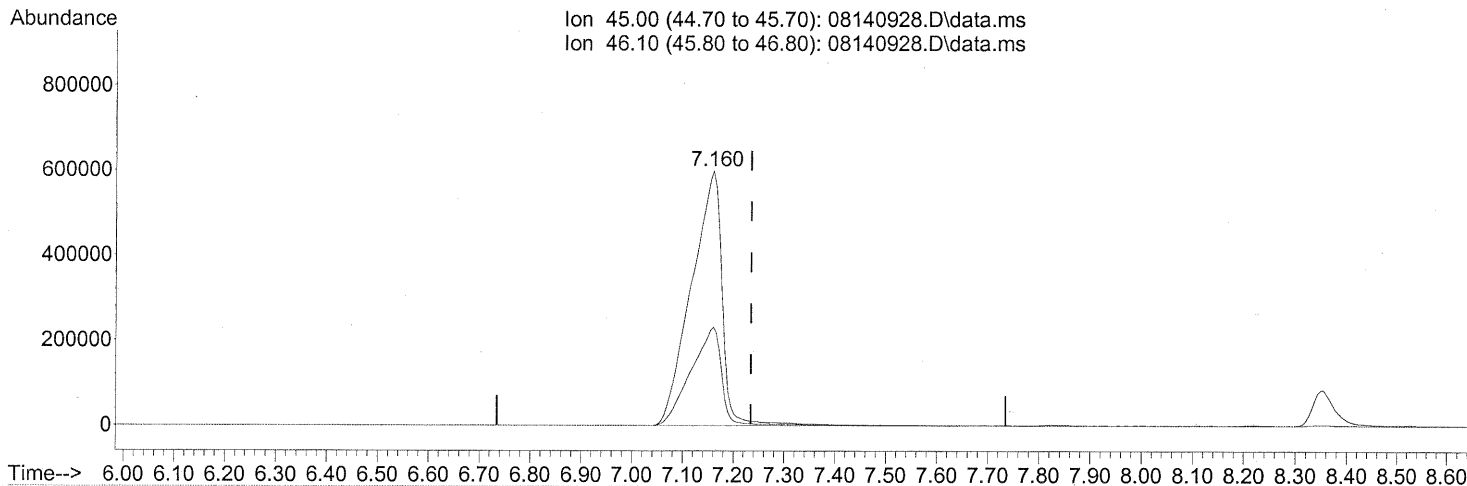
(8) Bromomethane (T)
 6.360min (+0.000) 0.23ng
 response 1980

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	91.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.160min (-0.074) 301.40ng

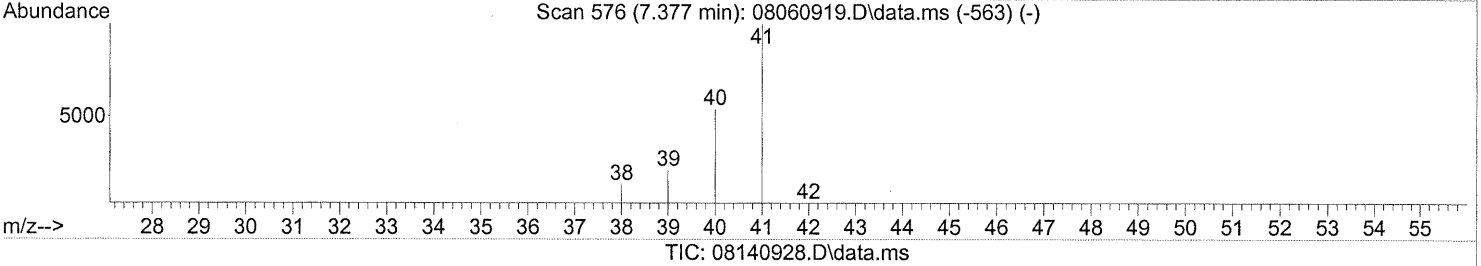
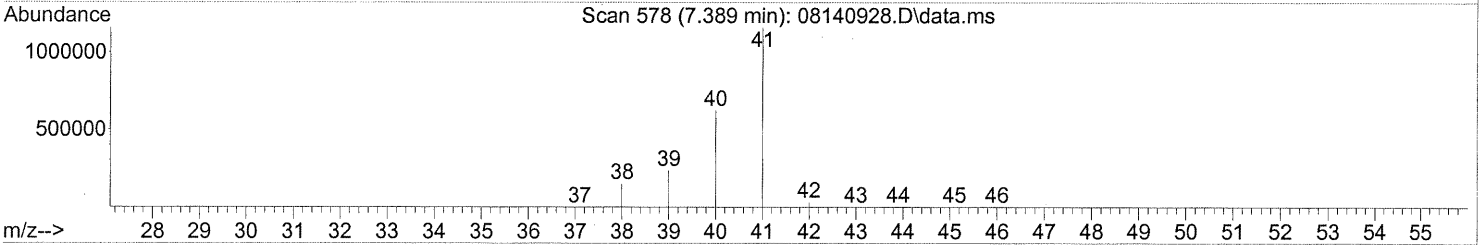
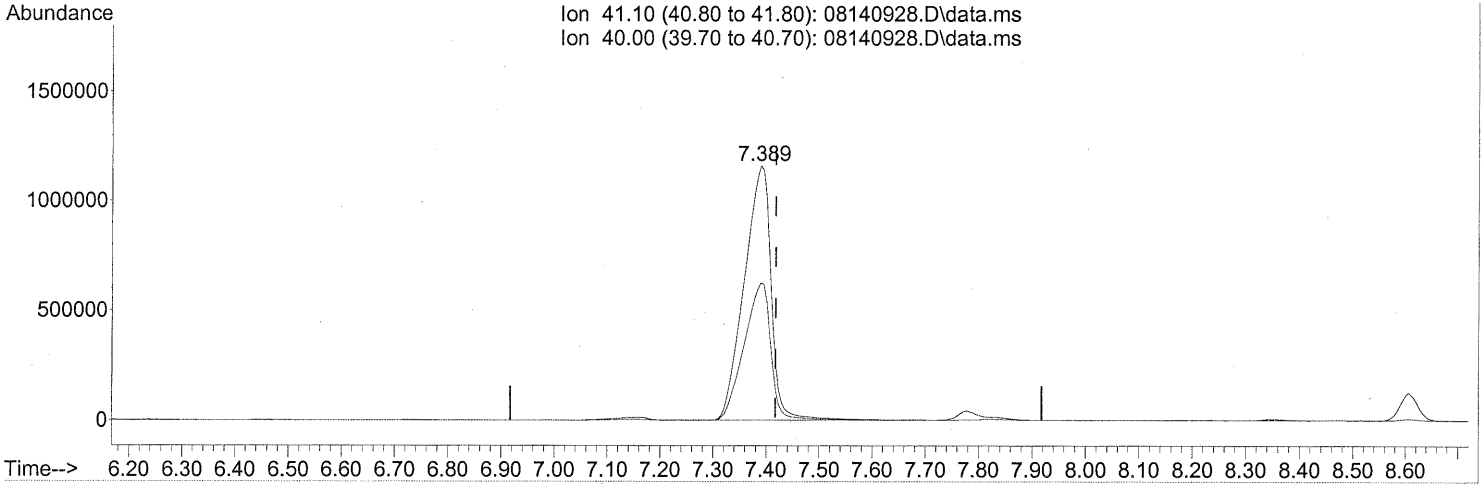
response 2543062

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 09:34:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.389min (-0.029) 166.23ng *E*

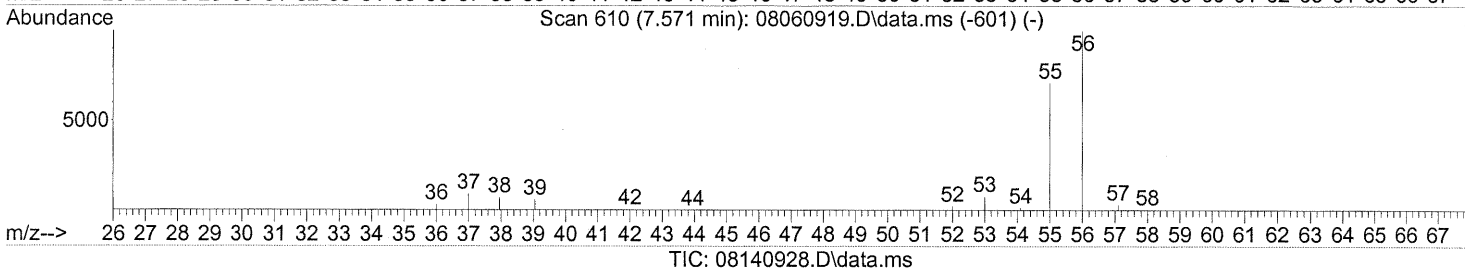
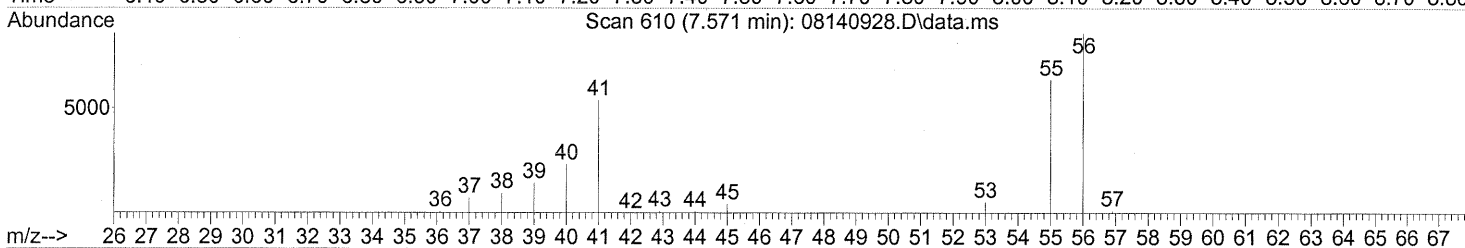
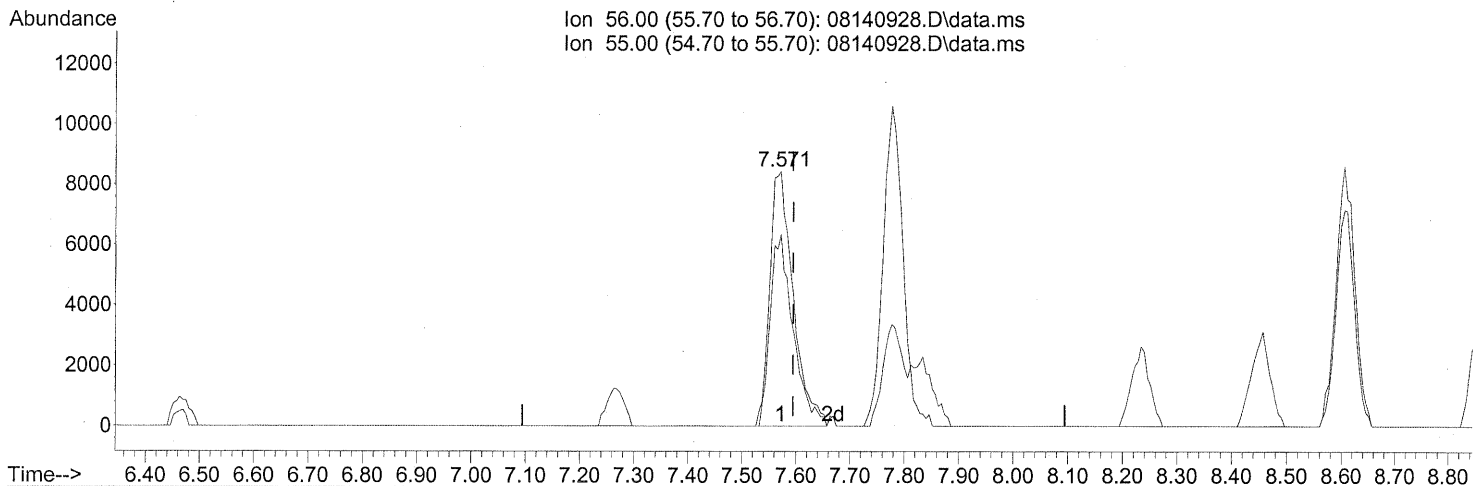
response 4107635

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.571min (-0.023) 3.96ng

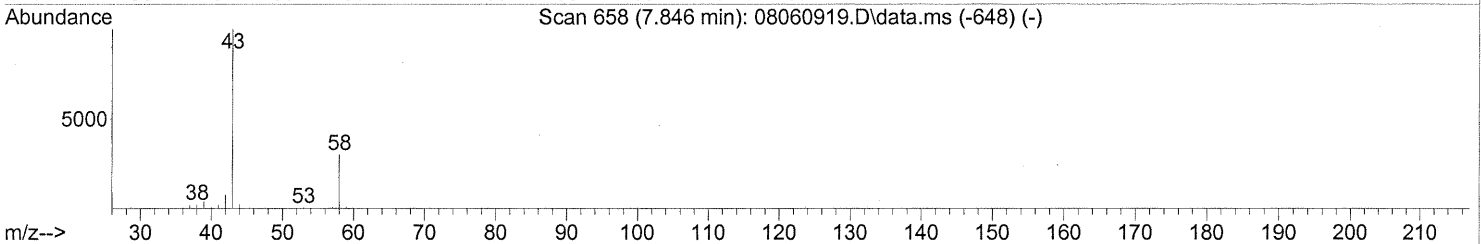
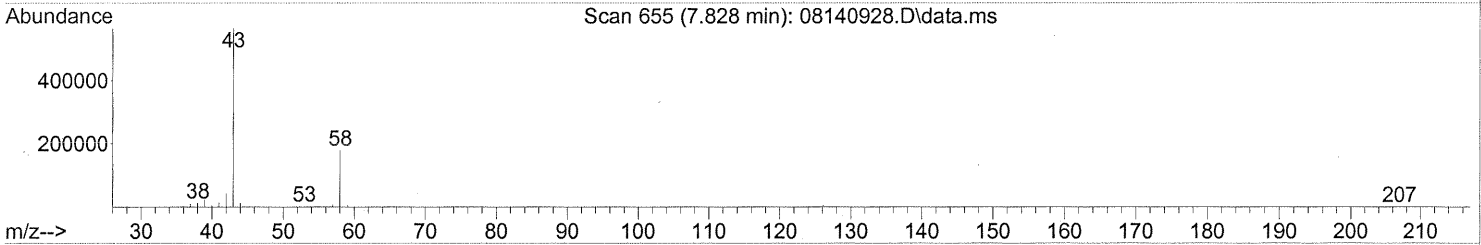
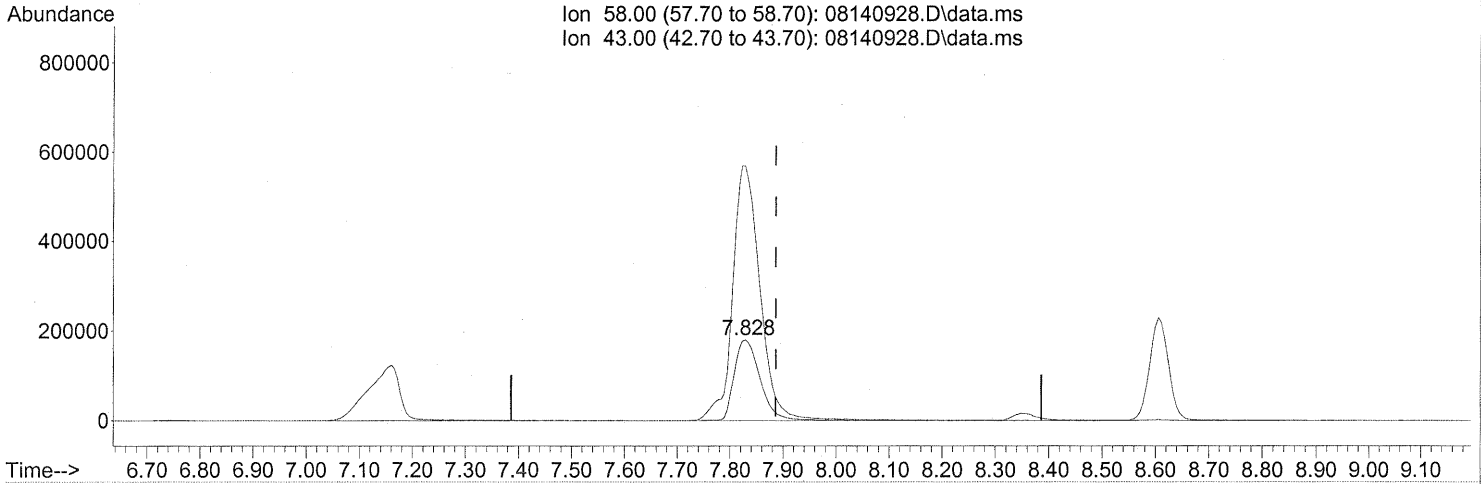
response 25429

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	73.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



TIC: 08140928.D\data.ms

(13) Acetone (T)

7.828min (-0.058) 77.17ng

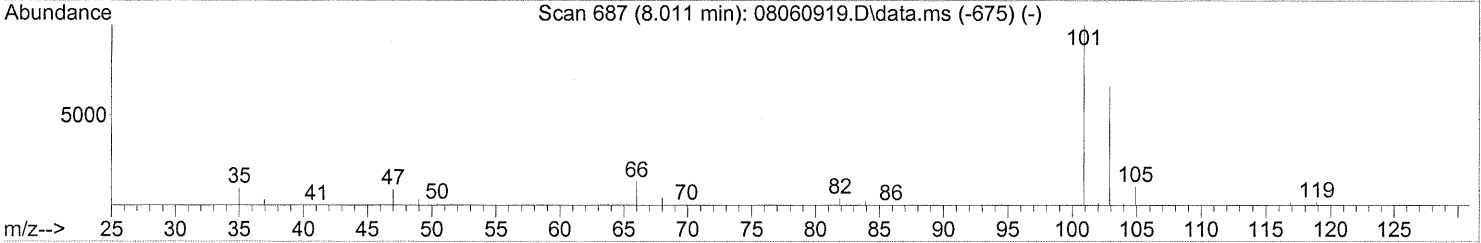
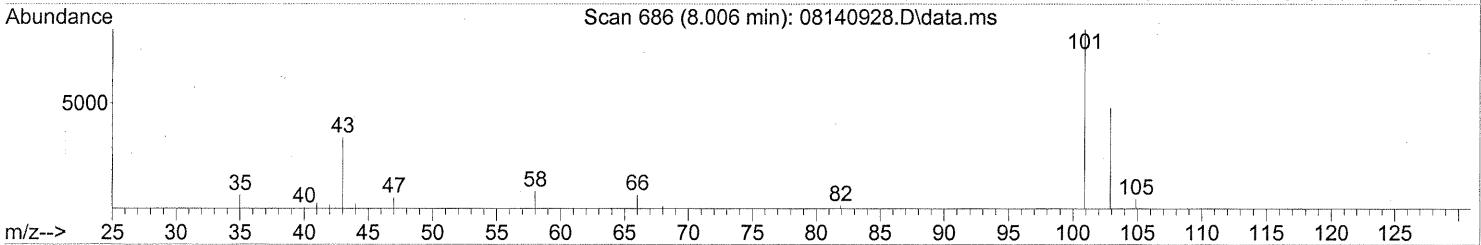
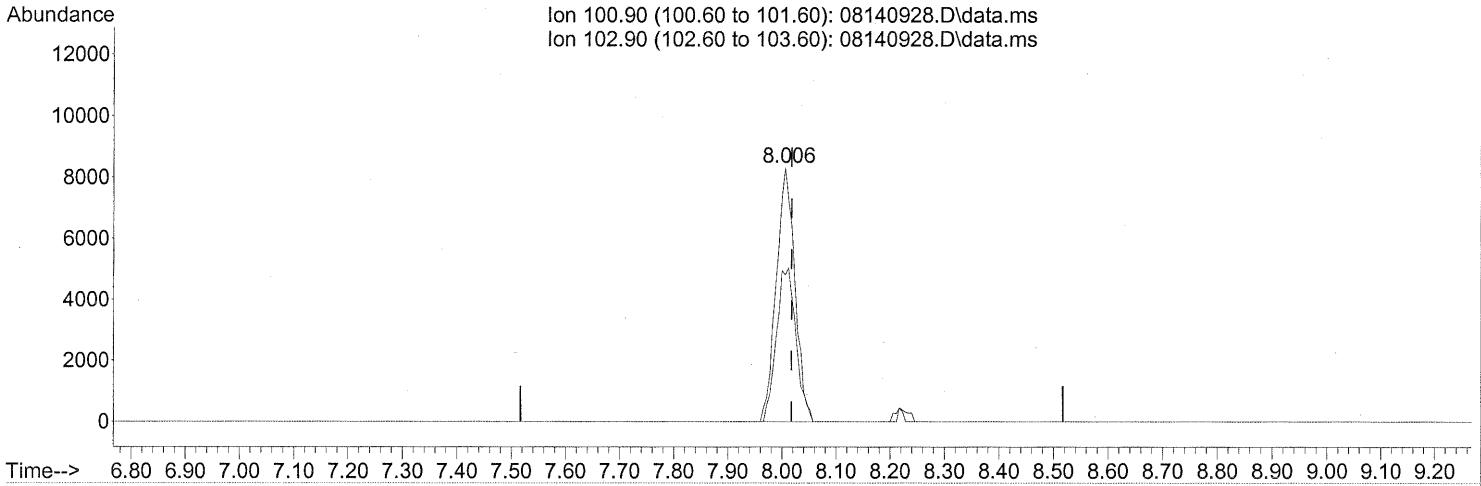
response 614337

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	335.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08140928.D\data.ms

(14) Trichlorofluoromethane (T)

8.006min (-0.011) 1.01ng

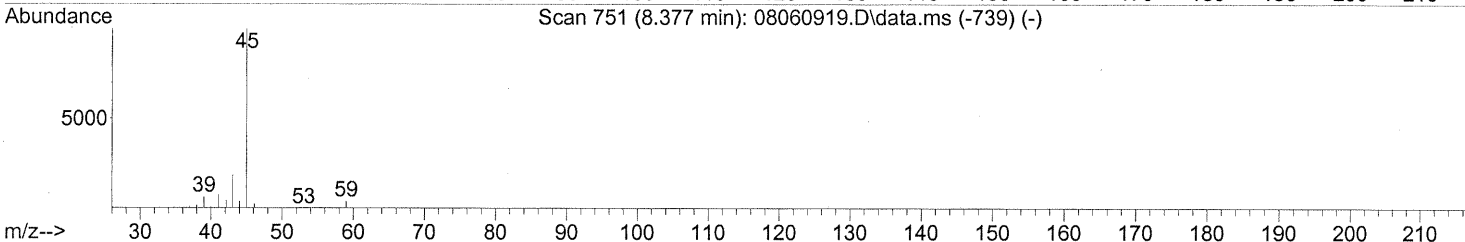
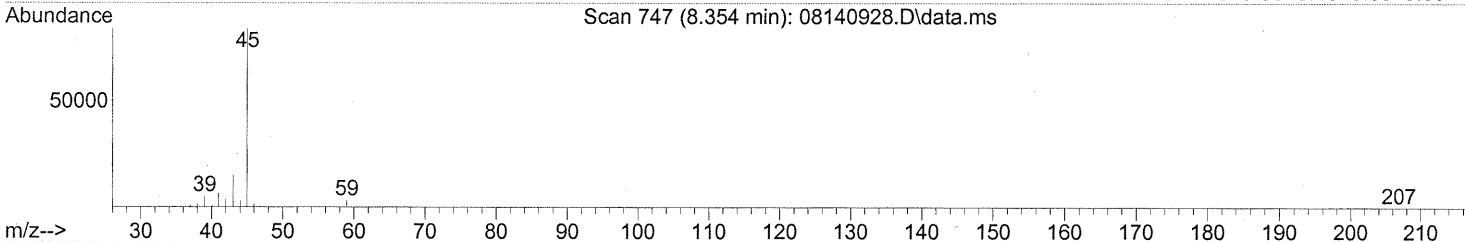
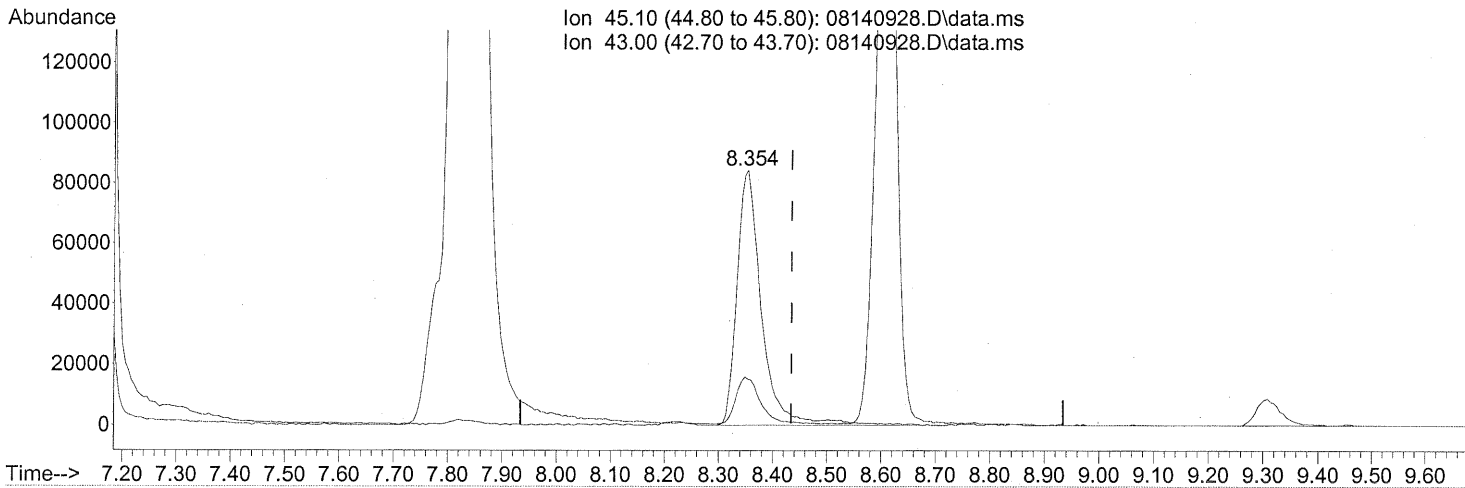
response 19818

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	63.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08140928.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.354min (-0.080) 8.47ng

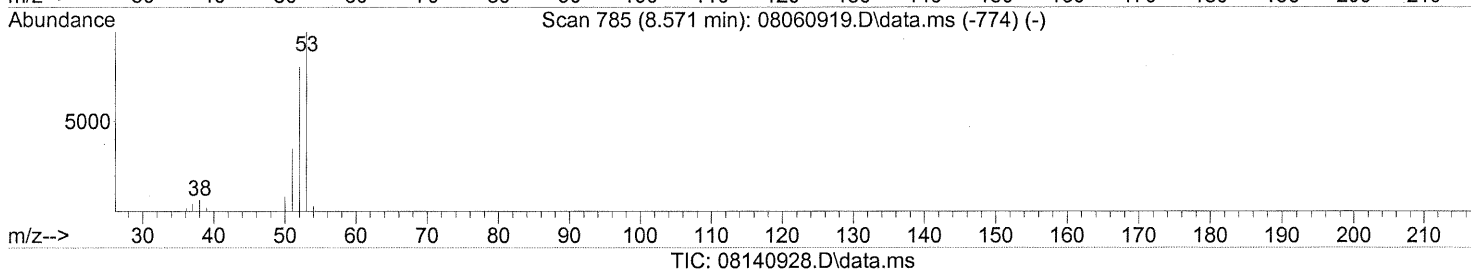
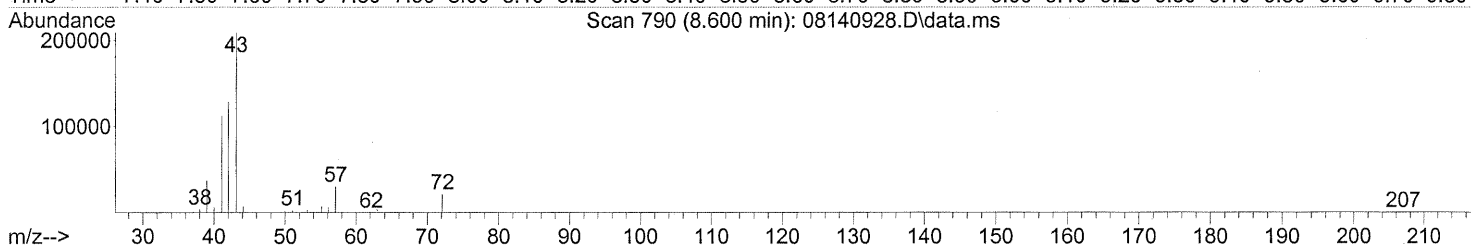
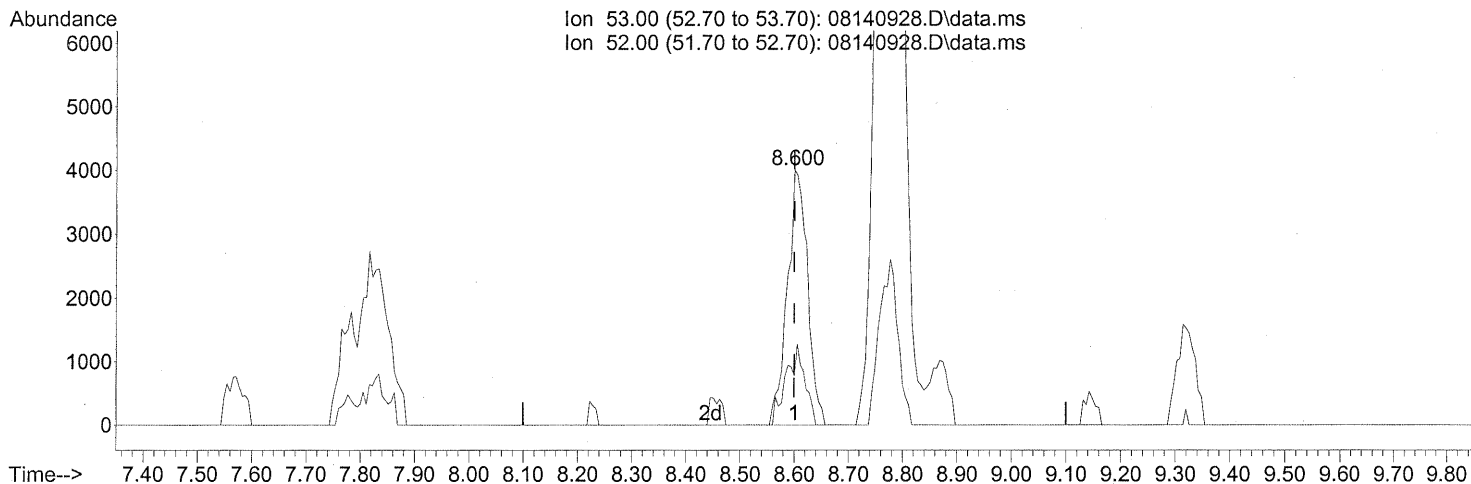
response 265018

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
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 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.600min (+0.000) 0.72ng
 response 10401

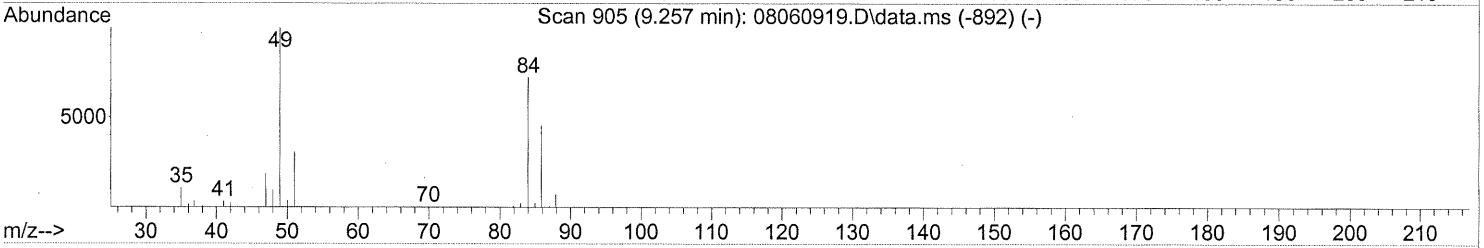
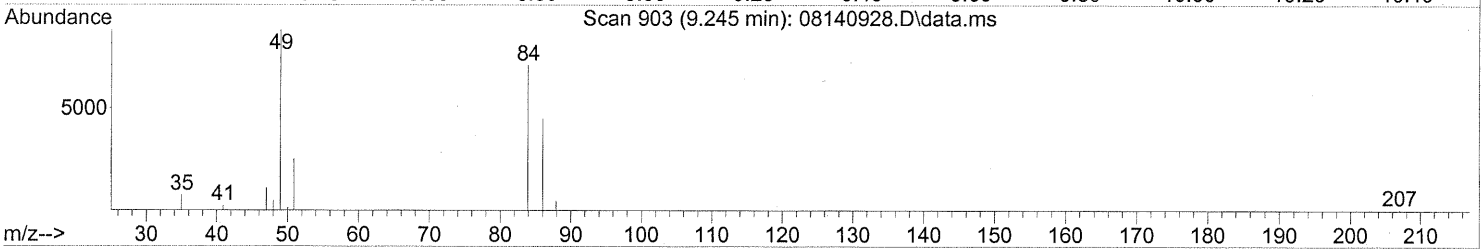
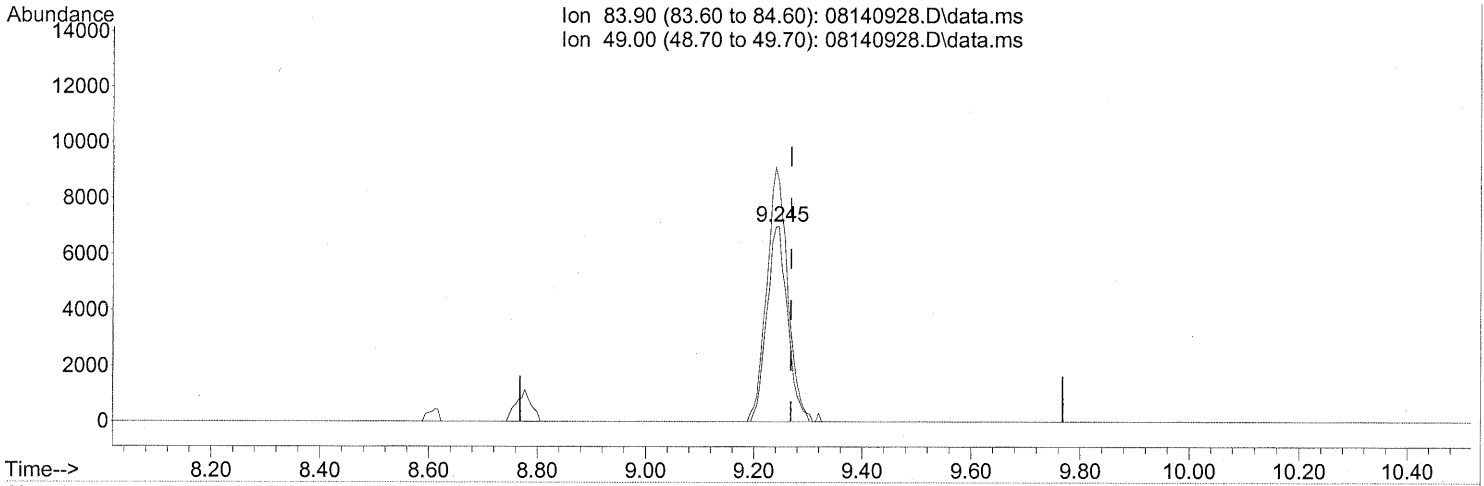
Ion	Exp%	Act%
53.00	100	100
52.00	81.20	29.35#
0.00	0.00	0.00
0.00	0.00	0.00

FP LR 8/20/09
em 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140928.D
Acq On : 15 Aug 2009 00:56
Operator : WA
Sample : P0902721-007 (1000mL)
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Quant Time: Aug 15 07:21:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08140928.D\data.ms

(19) Methylene Chloride (T)

9.245min (-0.023) 1.74ng

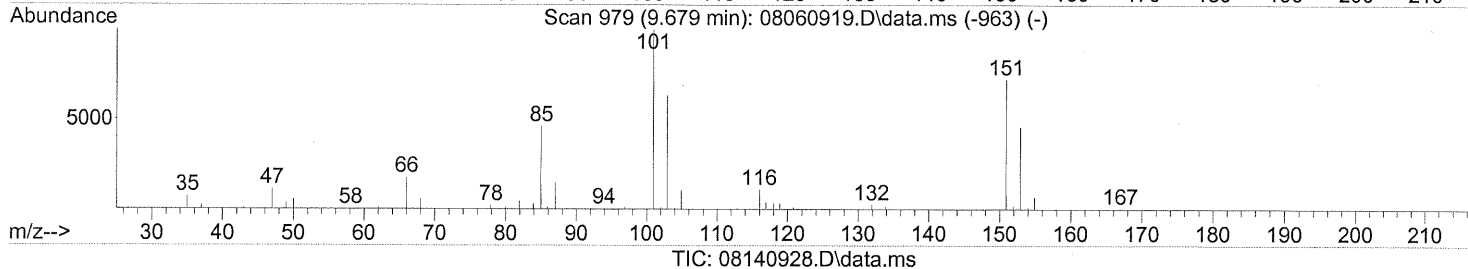
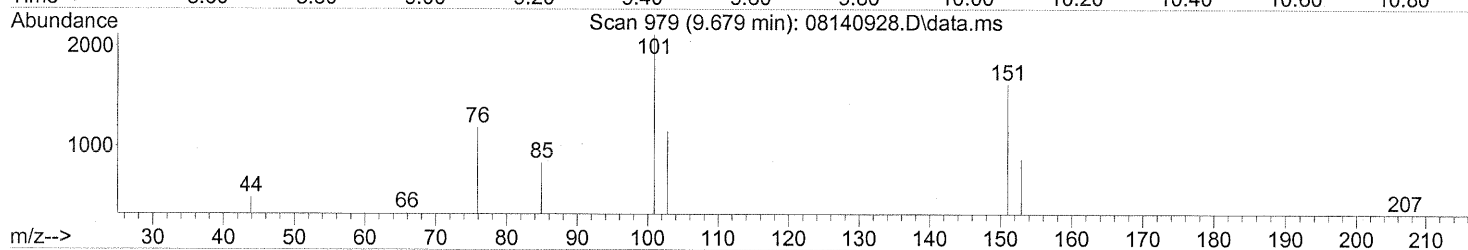
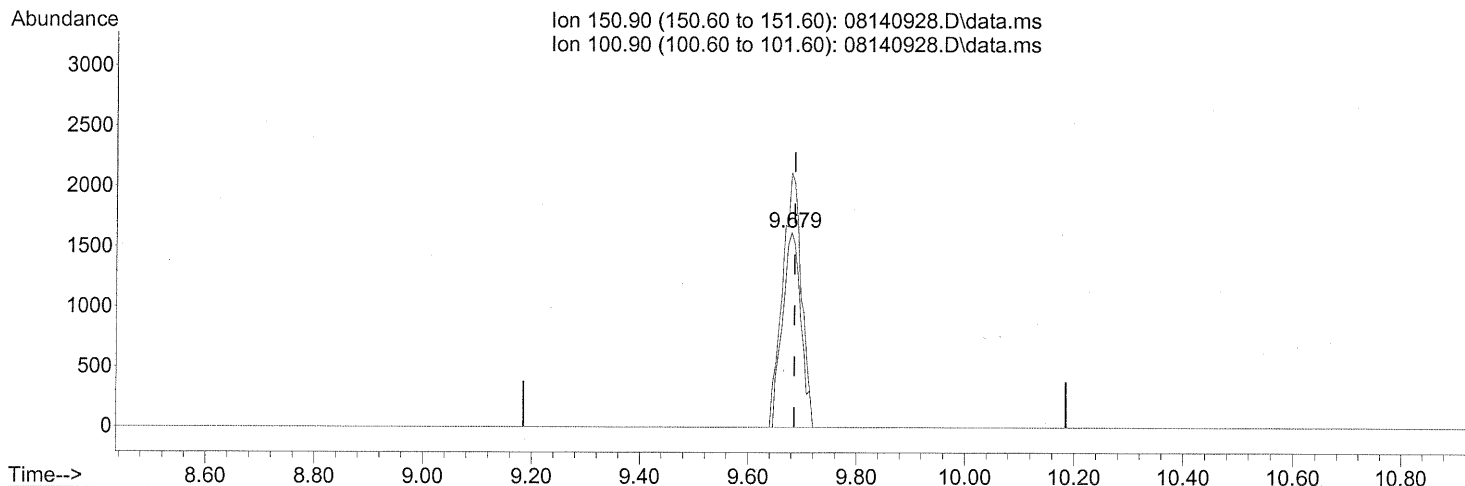
response 18606

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	131.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Data File : 08140928.D
Acq On : 15 Aug 2009 00:56
Operator : WA
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Quant Time: Aug 15 07:21:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
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QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.54ng

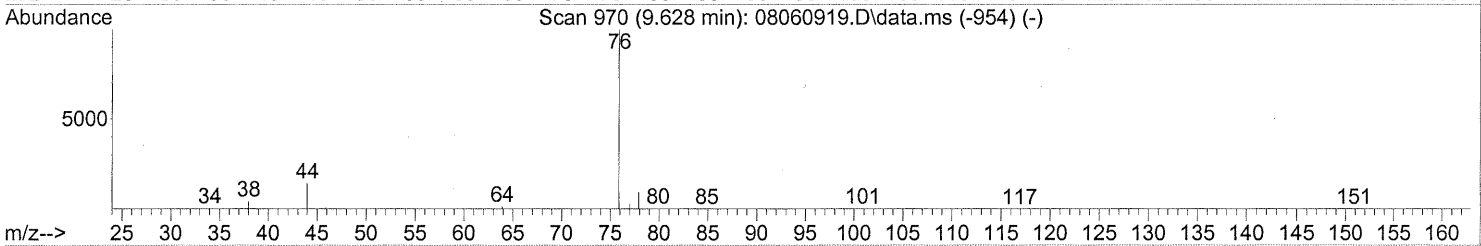
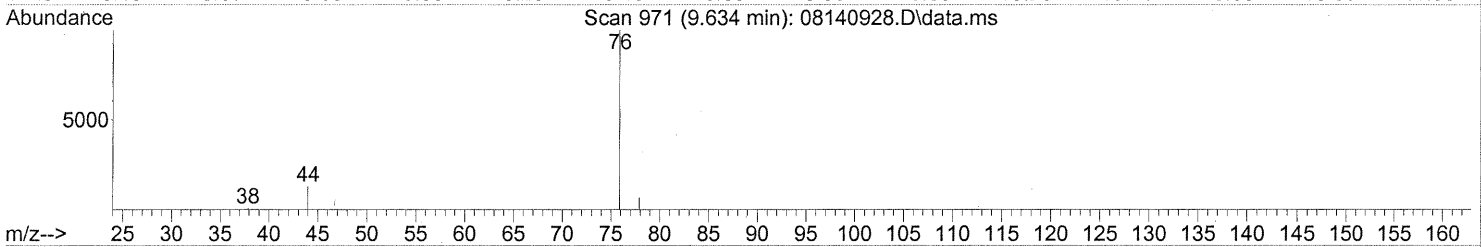
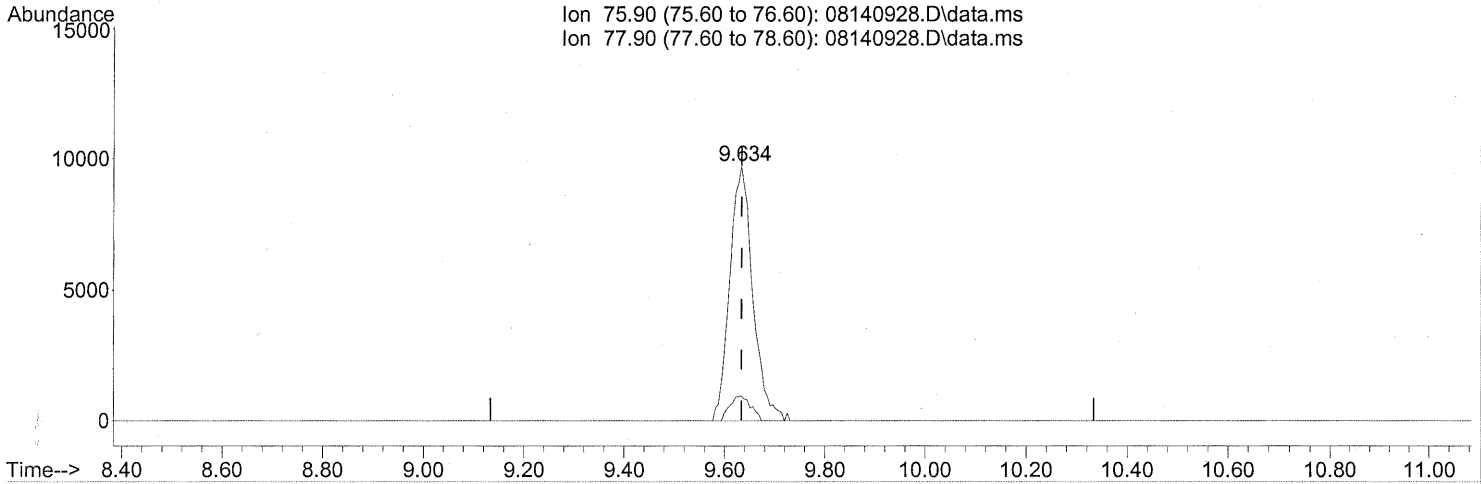
response 3827

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	133.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
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 Misc : Env. Health & Engineering 99952
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Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08140928.D\data.ms

(22) Carbon Disulfide (T)

9.634min (+0.000) 0.82ng

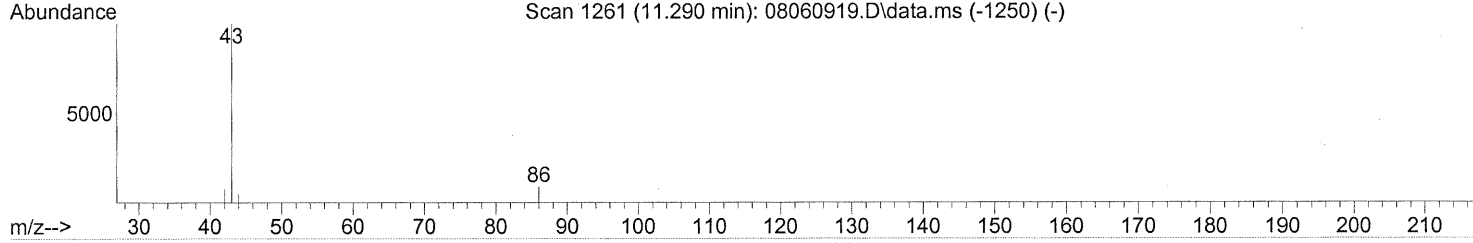
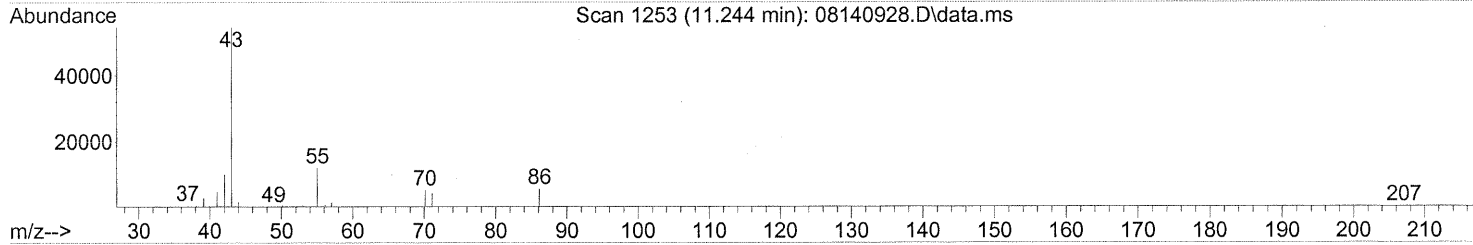
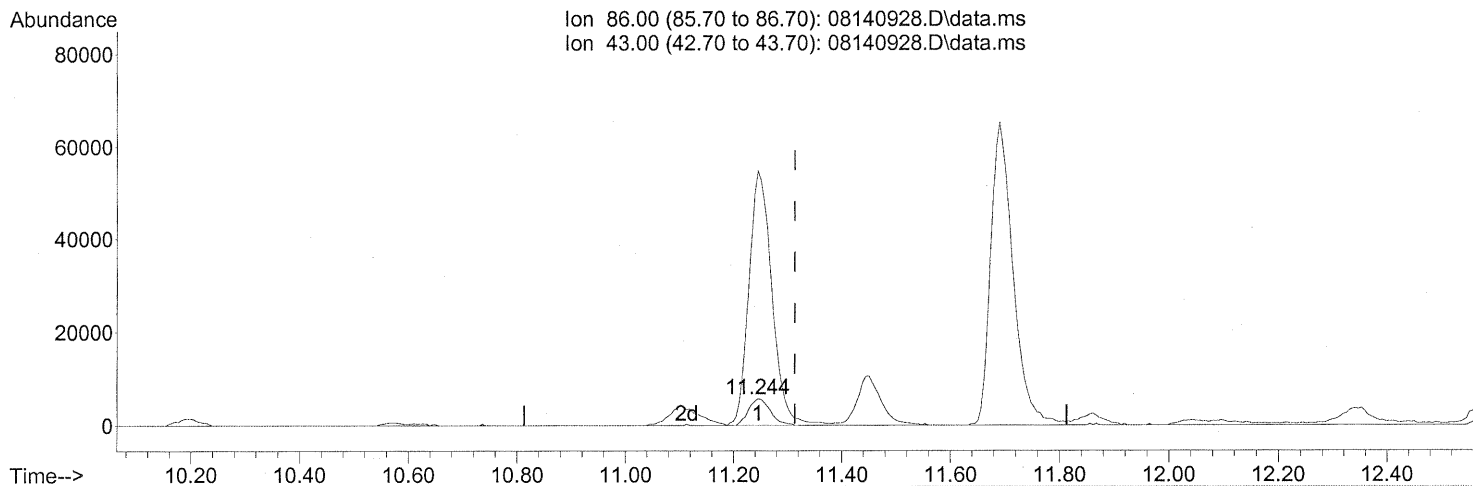
response 31097

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140928.D\data.ms

(26) Vinyl Acetate (T)

11.244min (-0.068) 9.83ng

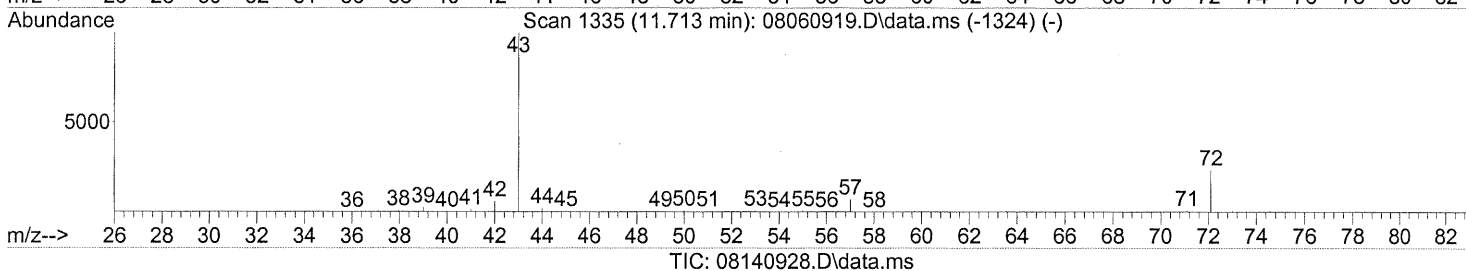
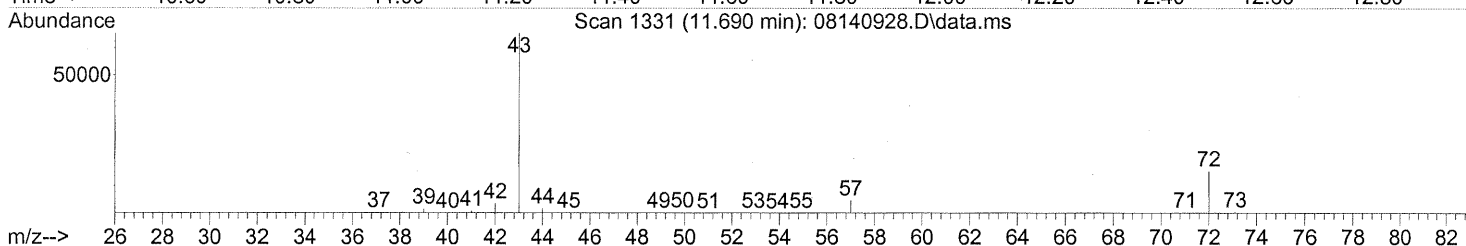
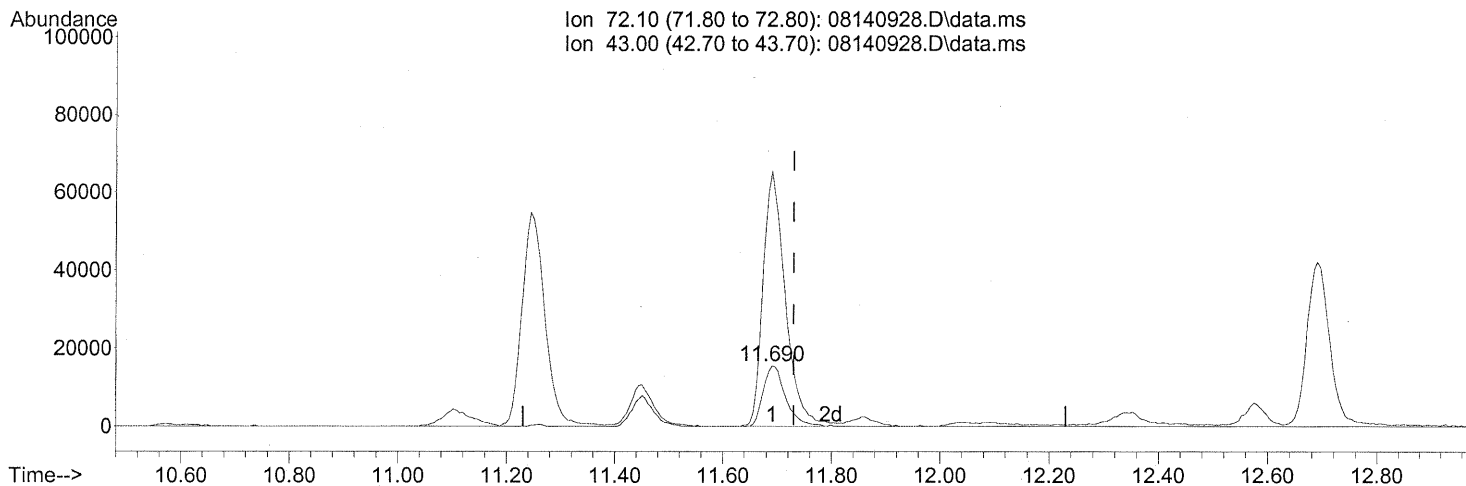
response 15930

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1011.73#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.690min (-0.040) 6.14ng

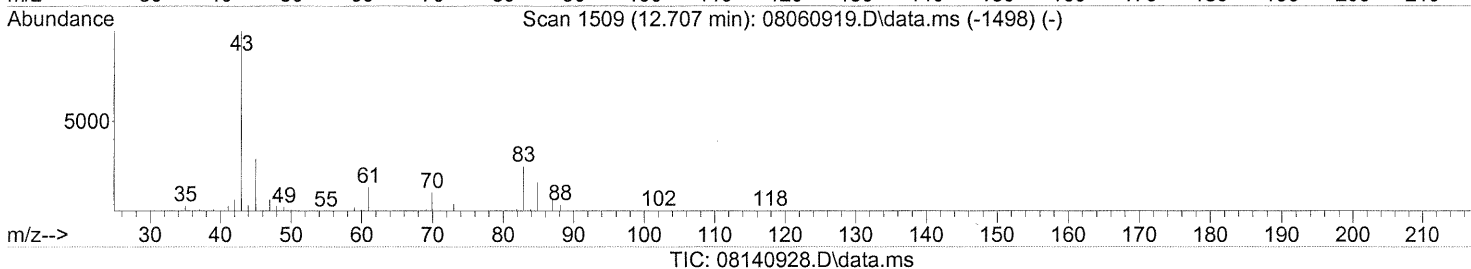
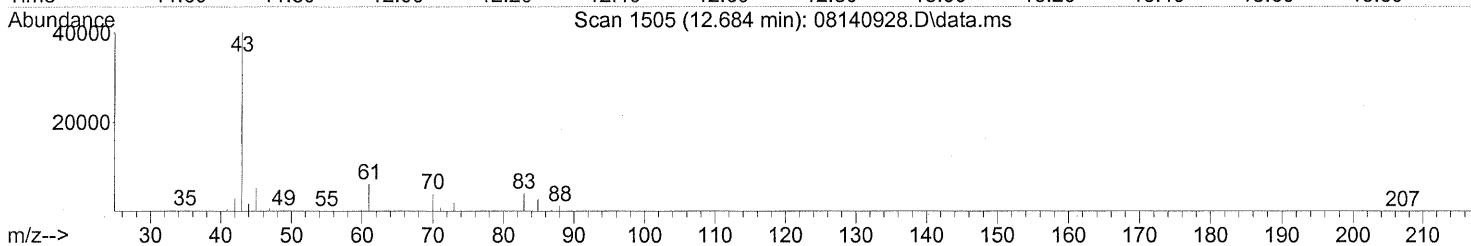
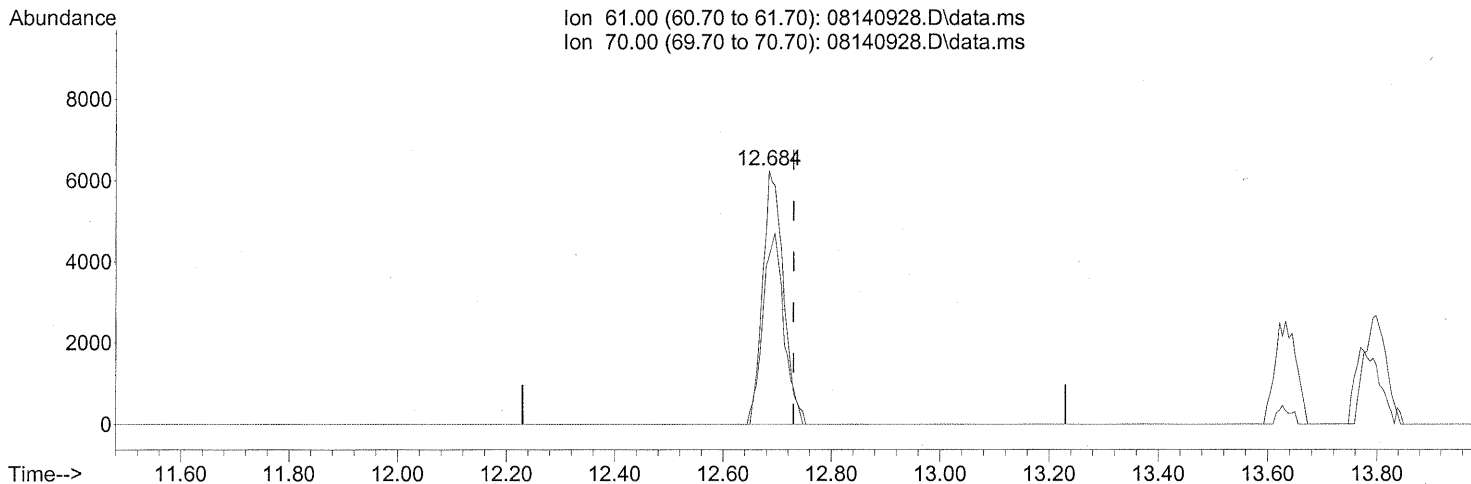
response 44170

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	423.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



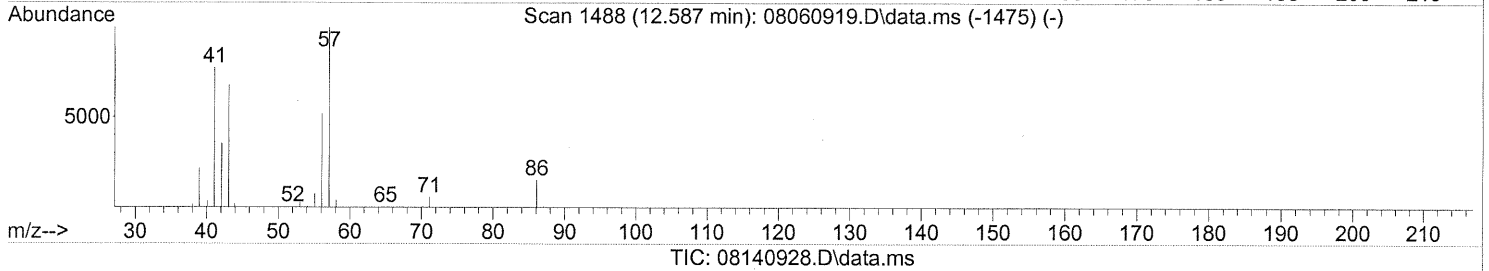
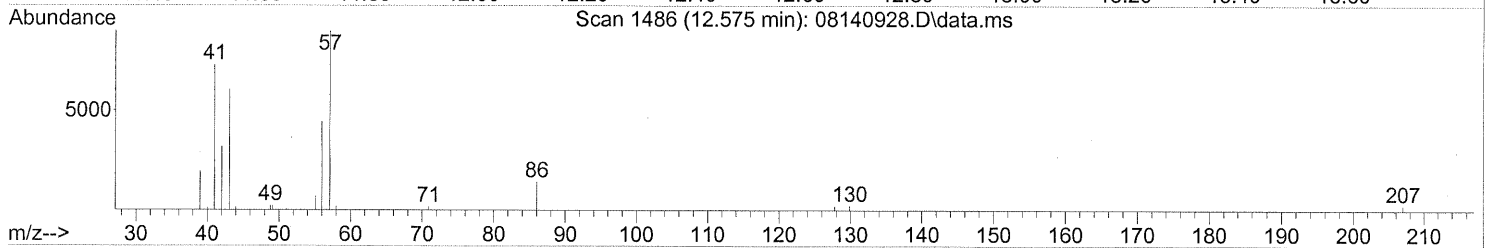
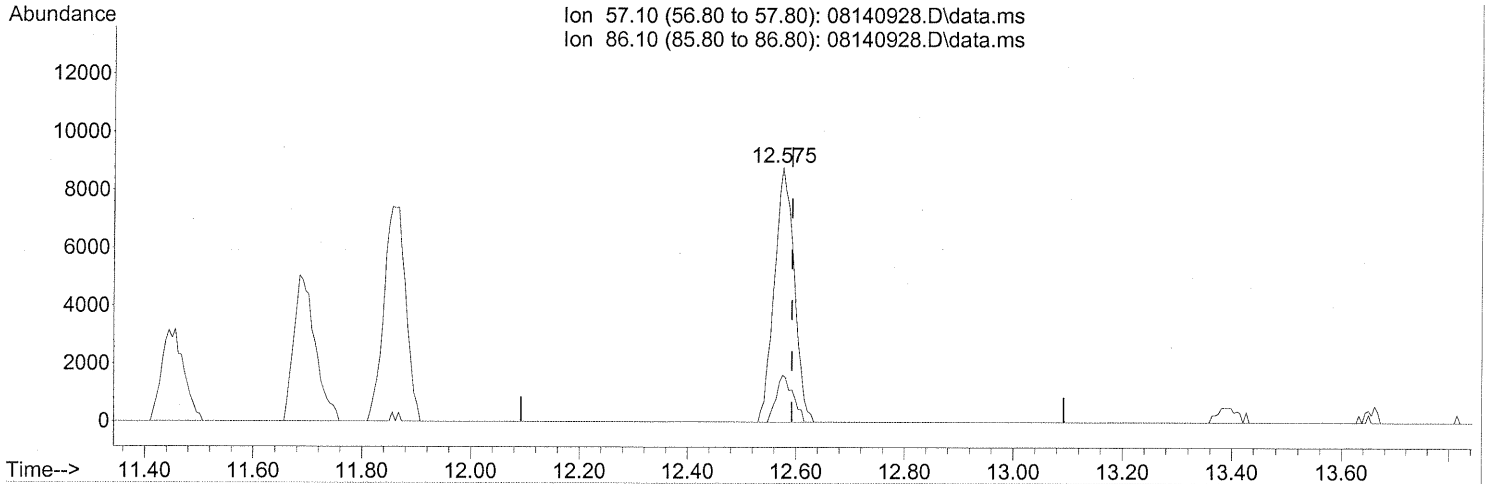
(30) Ethyl Acetate (T)
 12.684min (-0.046) 4.47ng
 response 16753

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	75.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



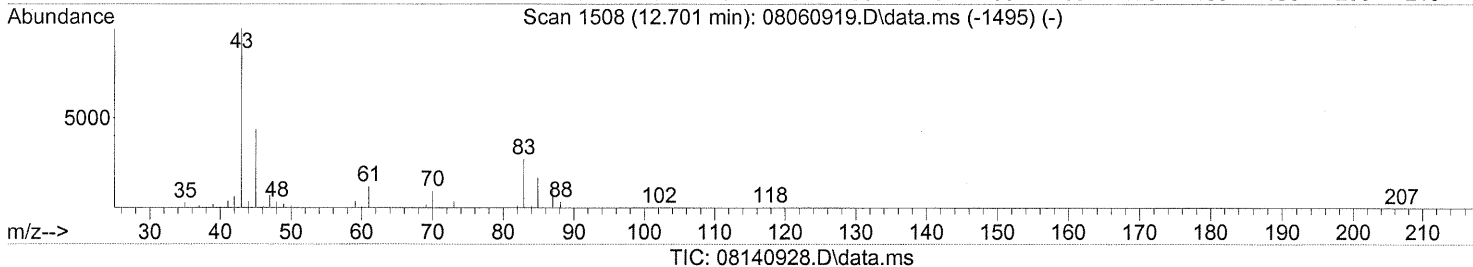
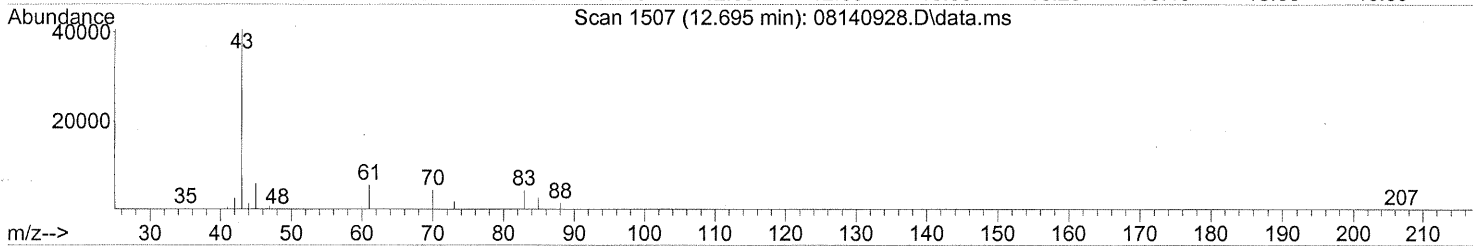
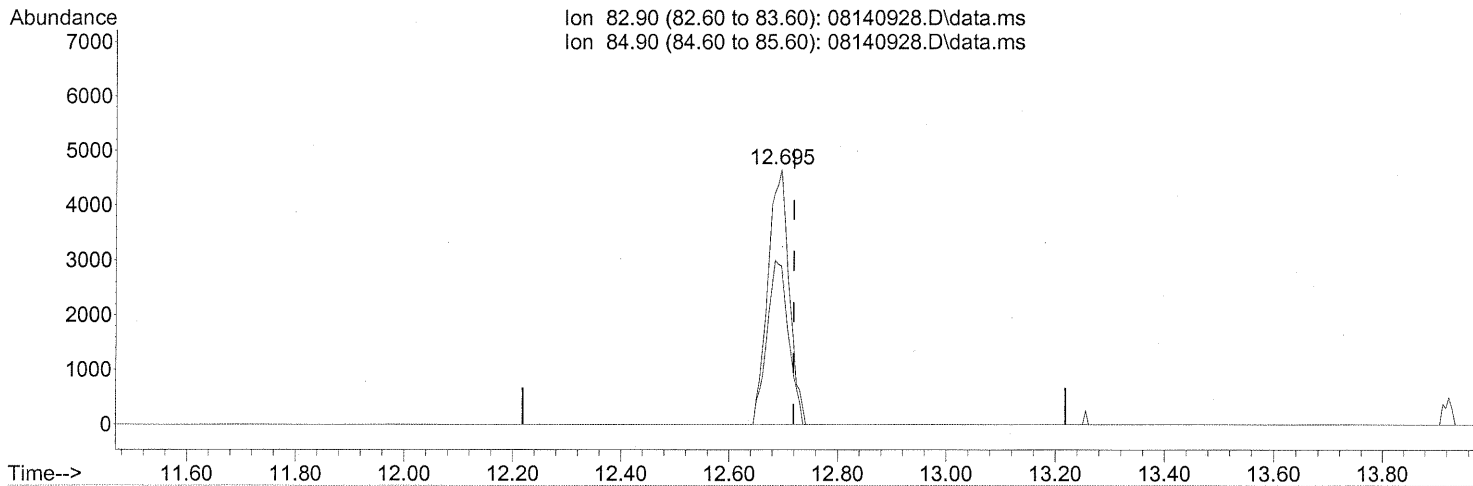
(31) n-Hexane (T)
 12.575min (-0.017) 1.17ng
 response 22421

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



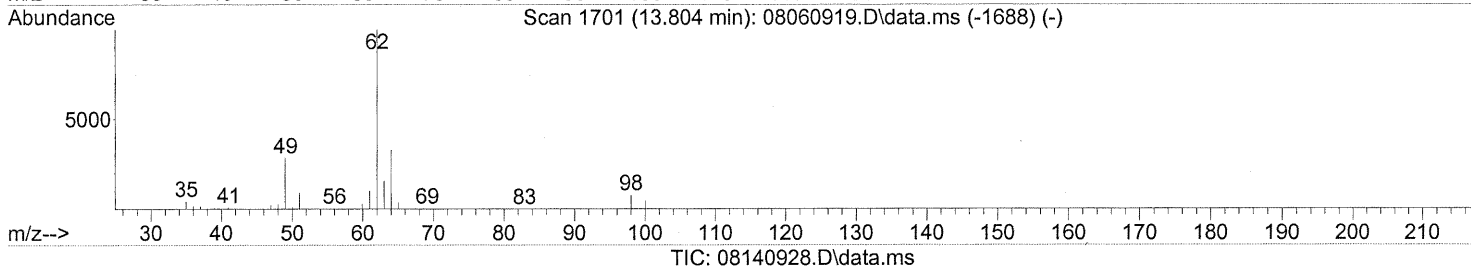
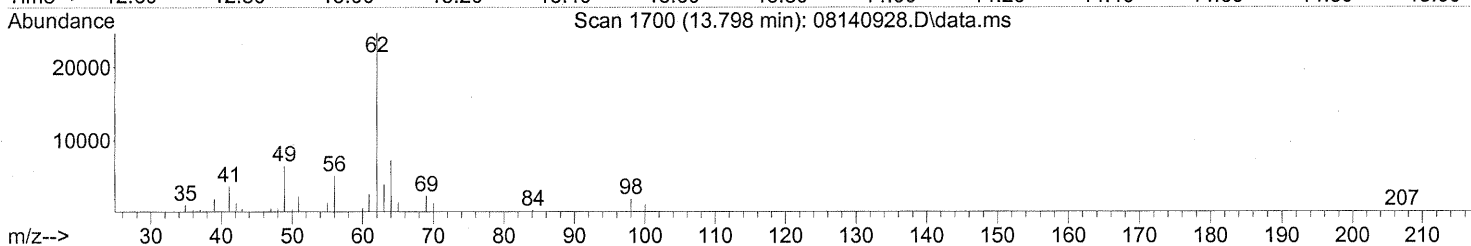
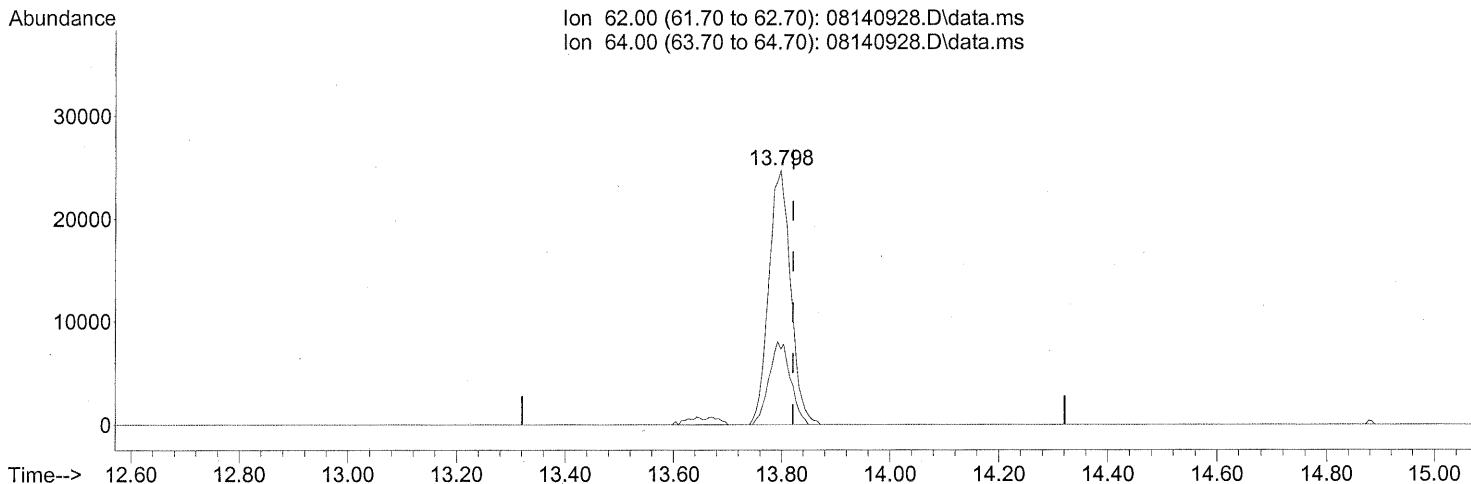
(32) Chloroform (T)
 12.695min (-0.023) 0.75ng
 response 12671

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	65.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140928.D
Acq On : 15 Aug 2009 00:56
Operator : WA
Sample : P0902721-007 (1000mL)
Misc : Env. Health & Engineering 99952
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.798min (-0.023) 4.53ng

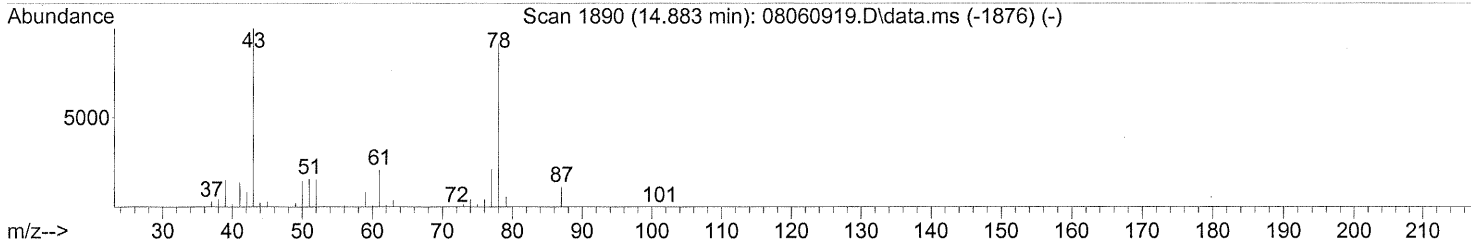
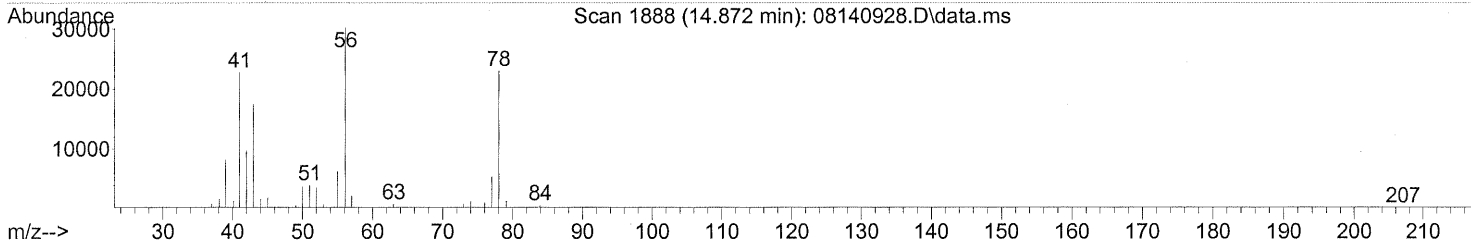
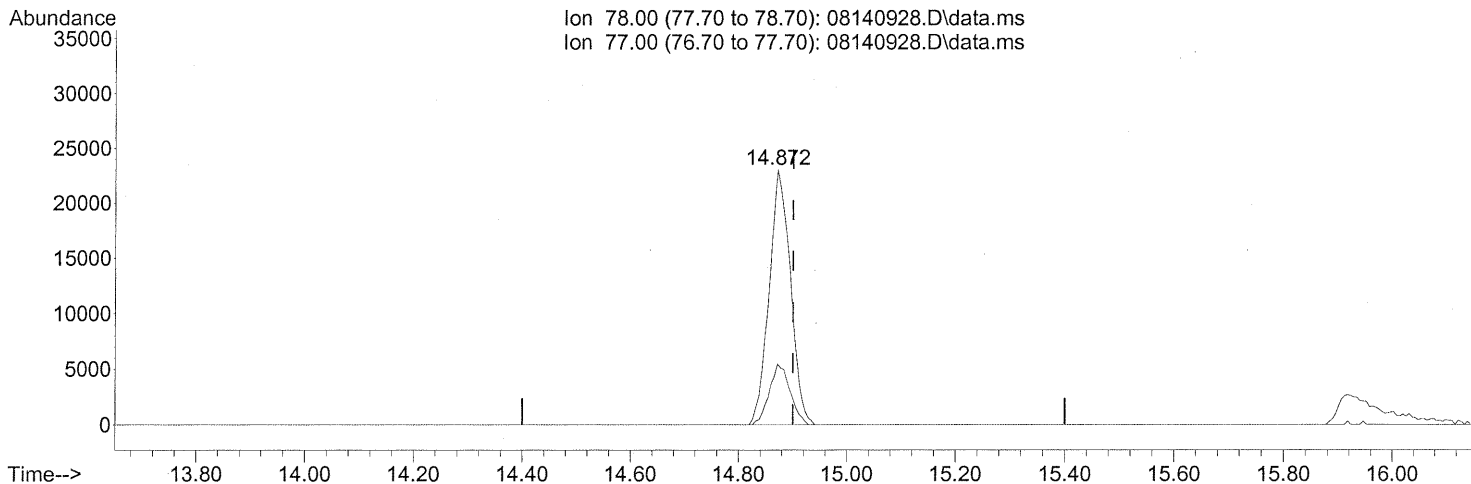
response 69764

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140928.D\data.ms

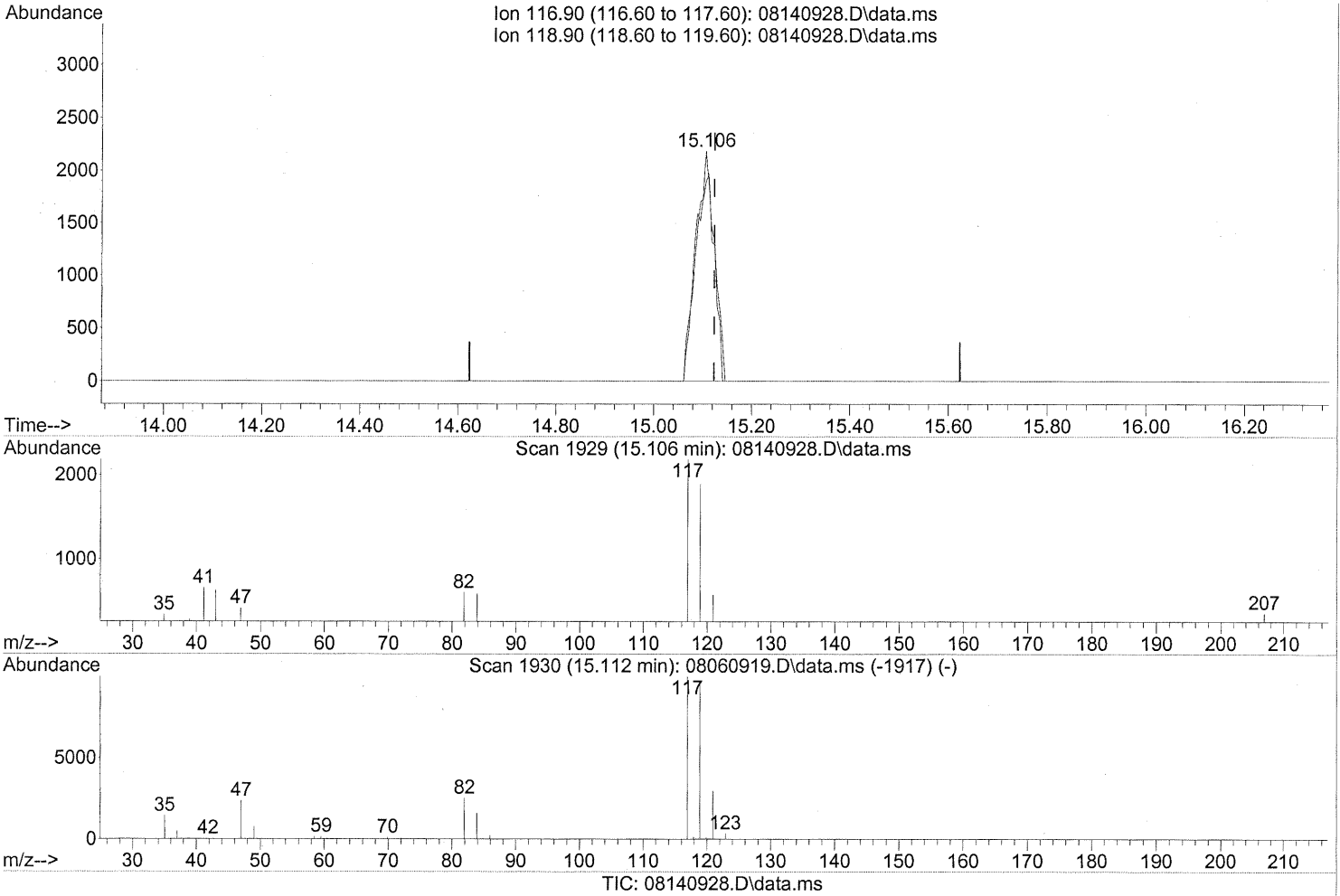
(41) Benzene (T)
 14.872min (-0.029) 1.47ng
 response 62812

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.42ng

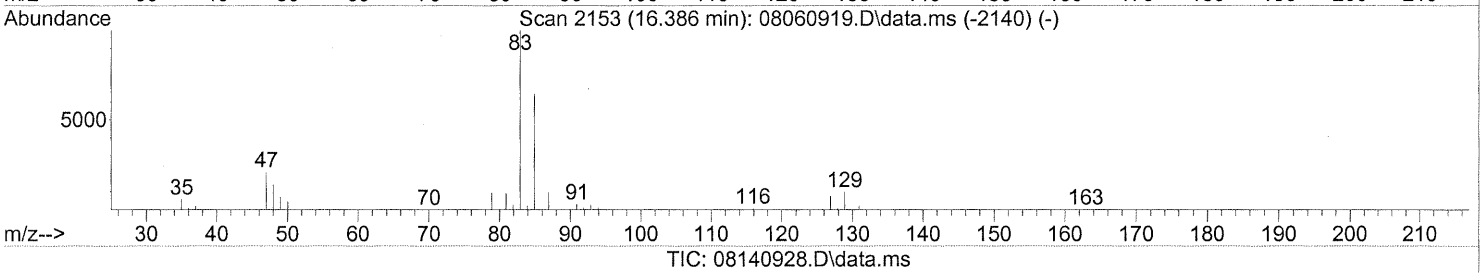
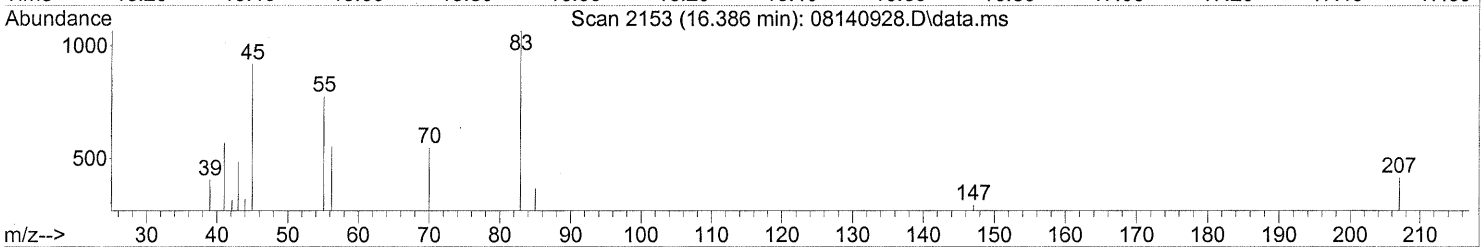
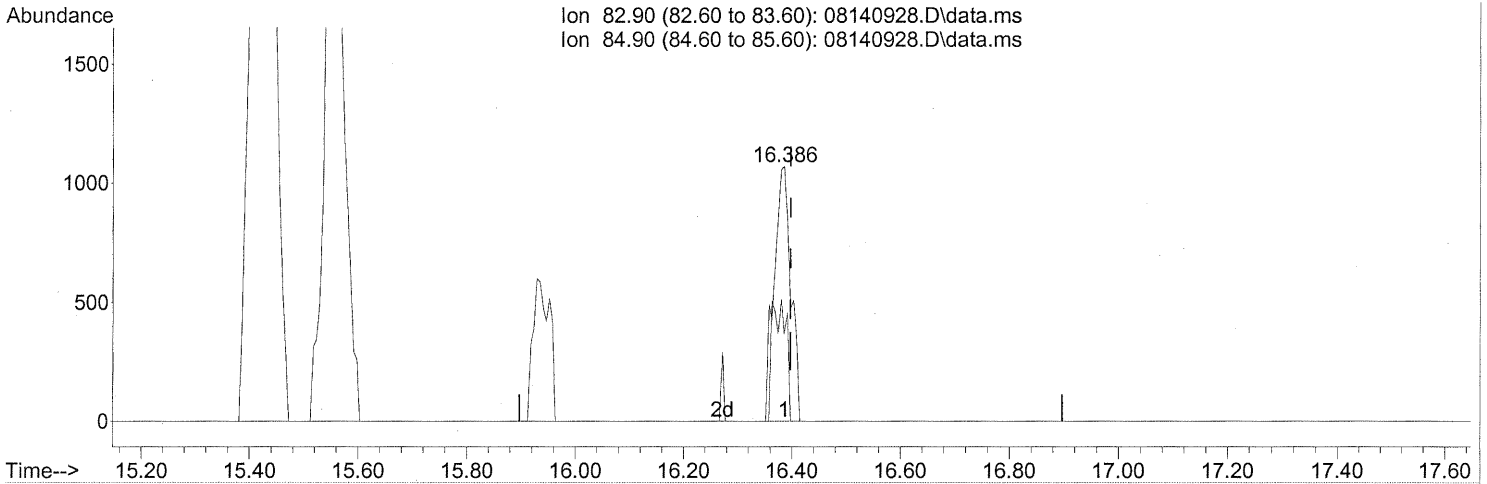
response 5736

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	93.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.386min (-0.011) 0.16ng

response 2304

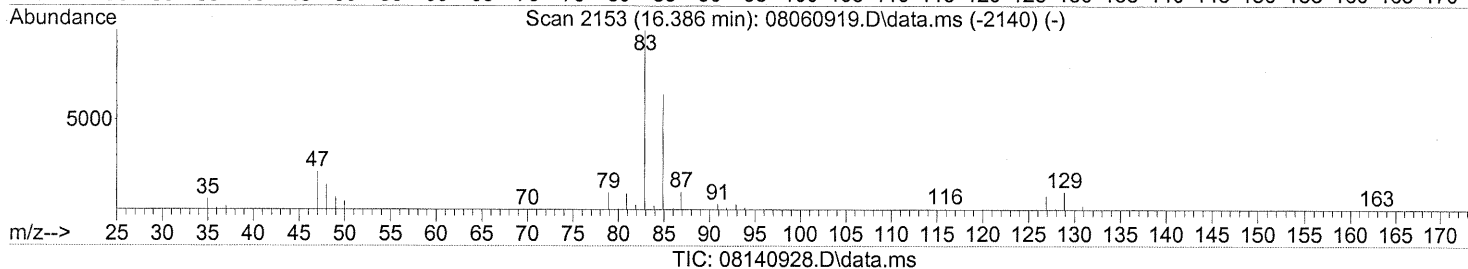
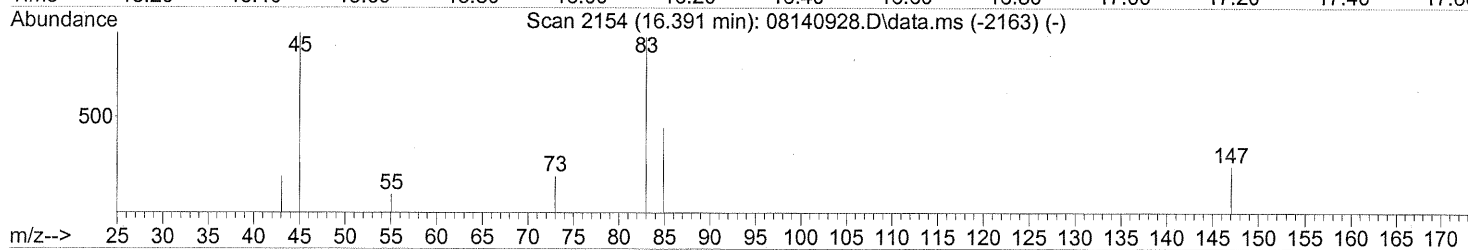
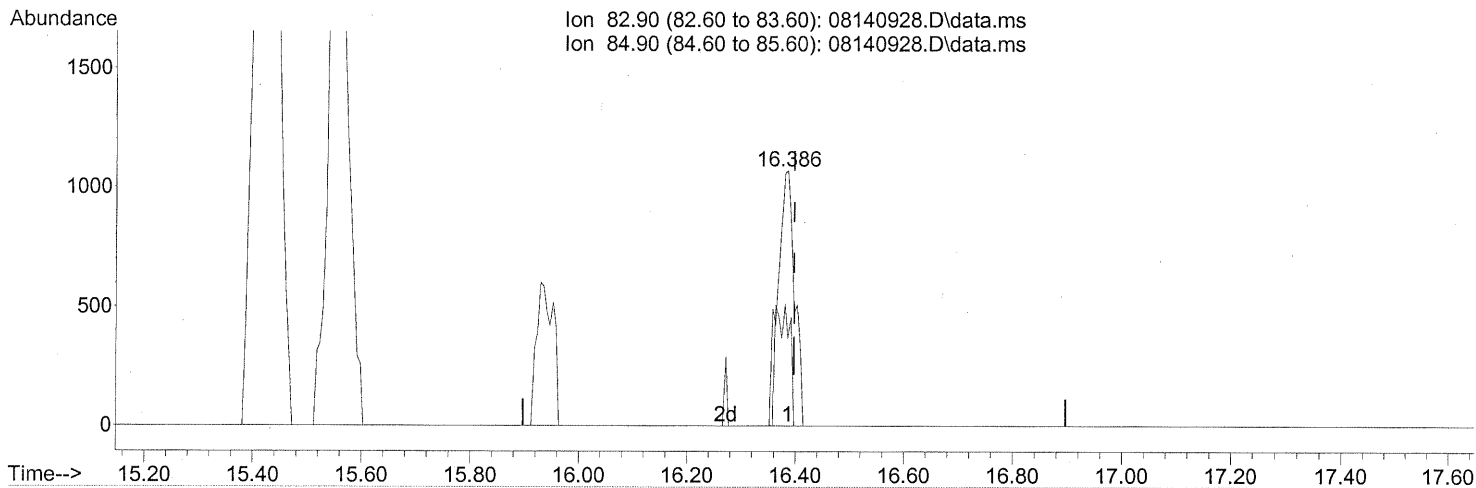
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	39.71#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.386min (-0.011) 0.16ng

response 2304

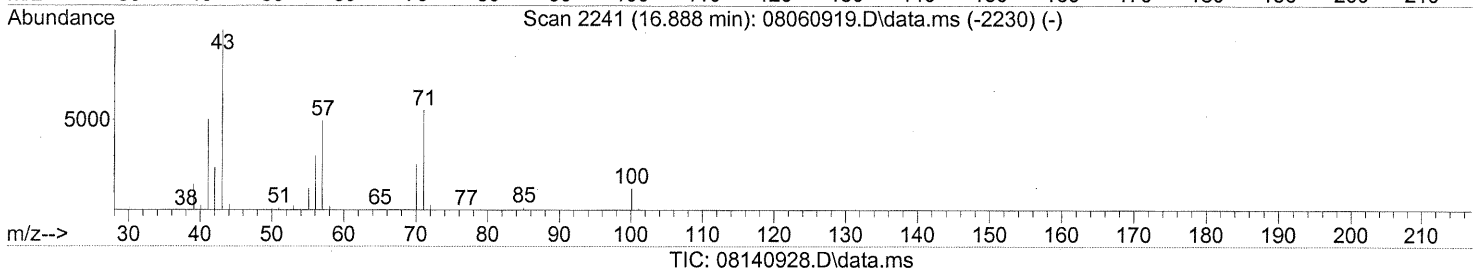
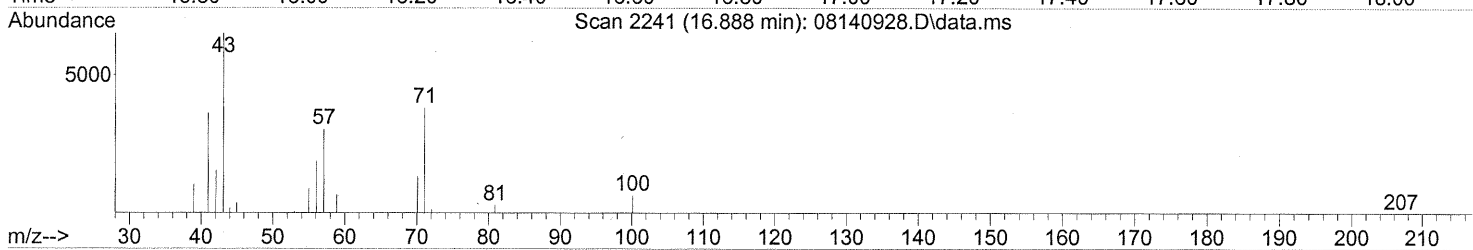
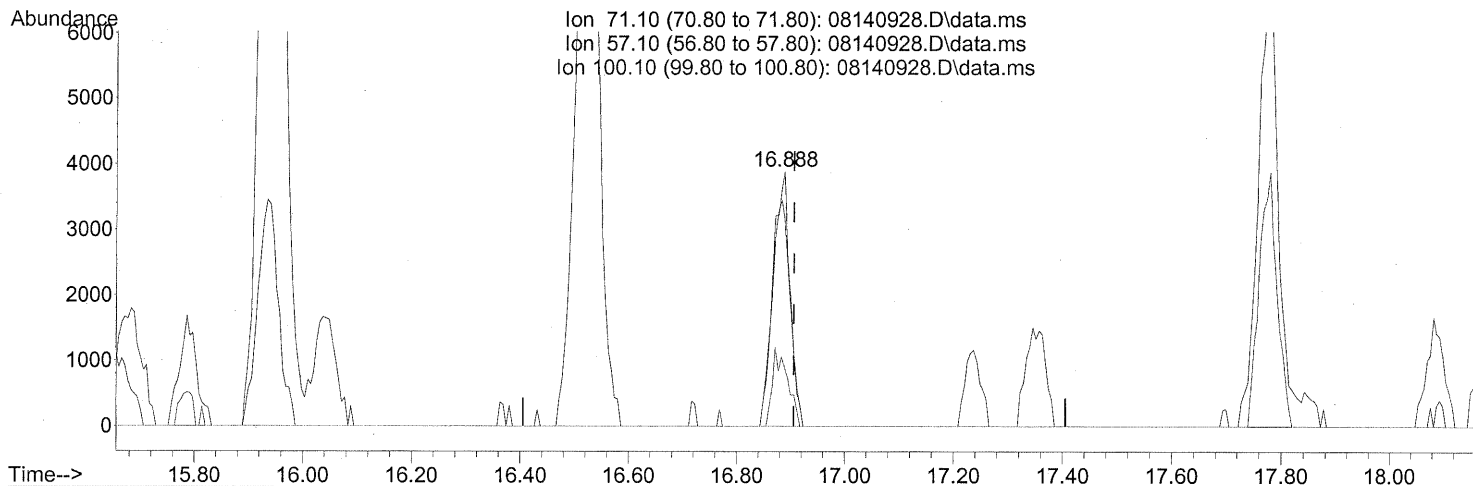
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	39.71#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(51) n-Heptane (T)

16.888min (-0.017) 0.75ng

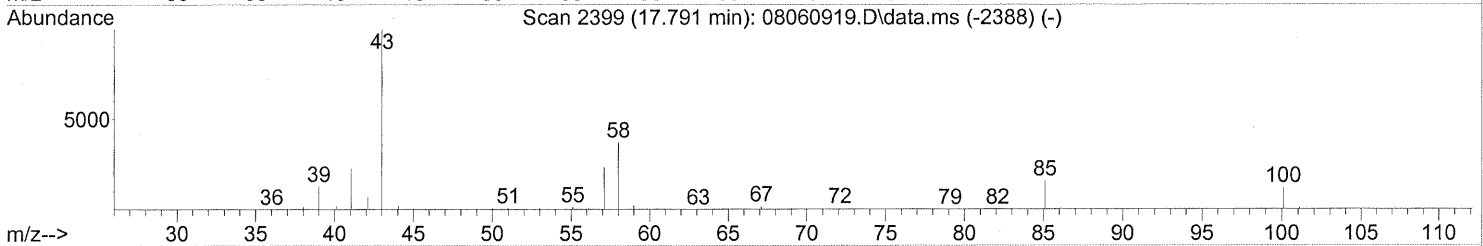
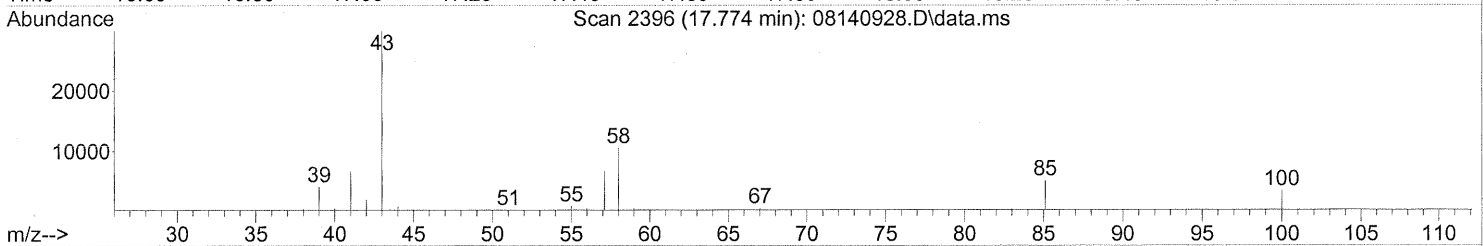
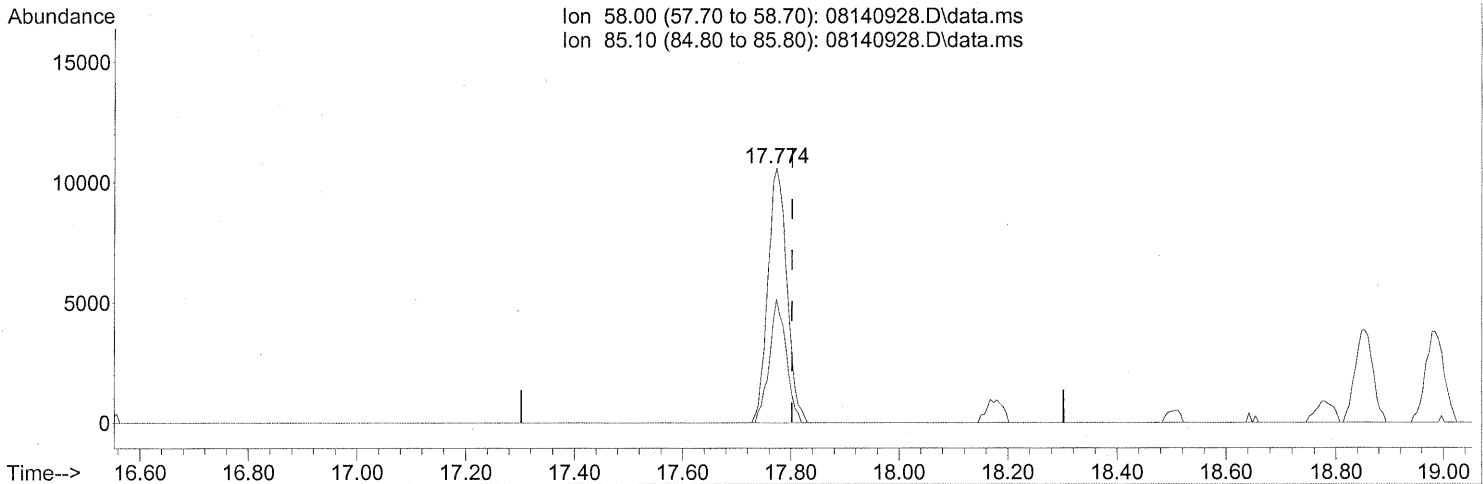
response 8565

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	93.89
100.10	26.40	27.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.774min (-0.028) 2.52ng

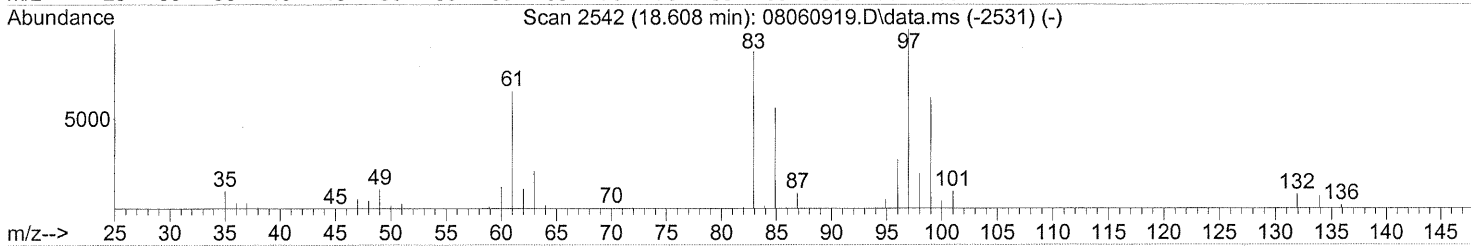
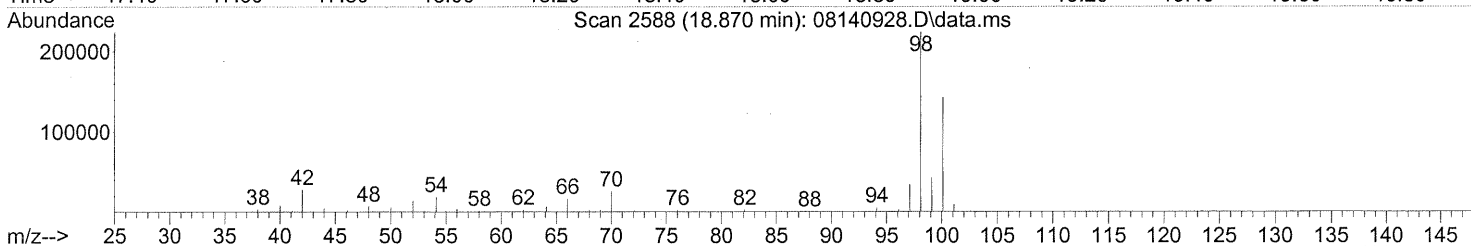
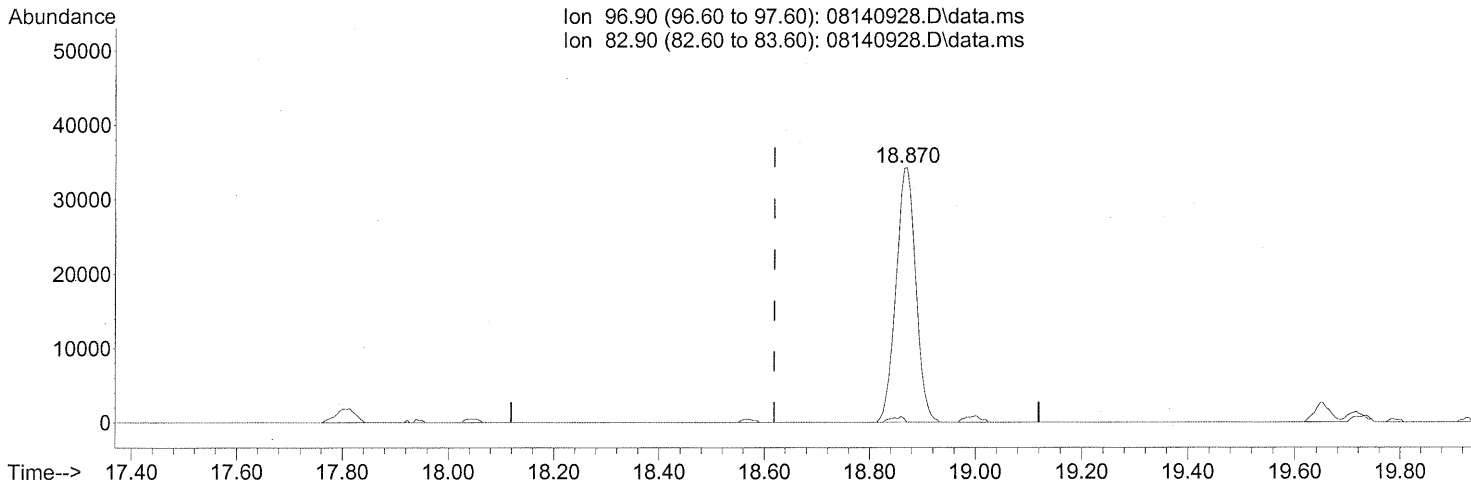
response 25896

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	43.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140928.D
Acq On : 15 Aug 2009 00:56
Operator : WA
Sample : P0902721-007 (1000mL)
Misc : Env. Health & Engineering 99952
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08140928.D\data.ms

(55) 1,1,2-Trichloroethane (T)

18.870min (+0.251) 9.52ng

response 89438

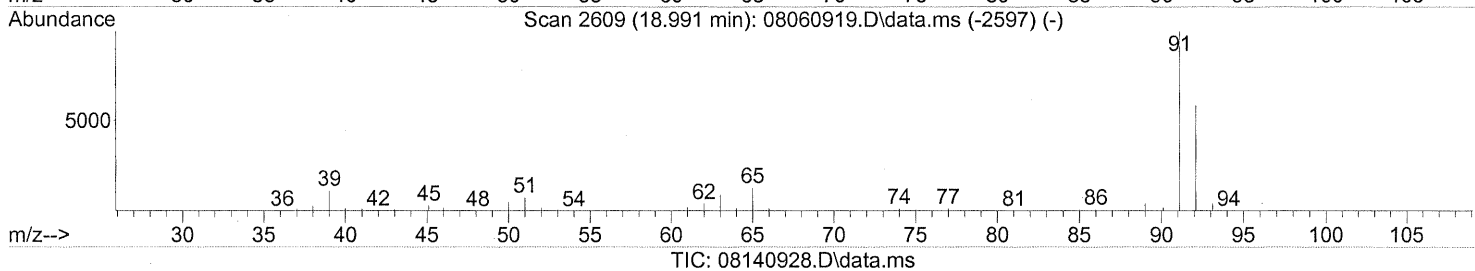
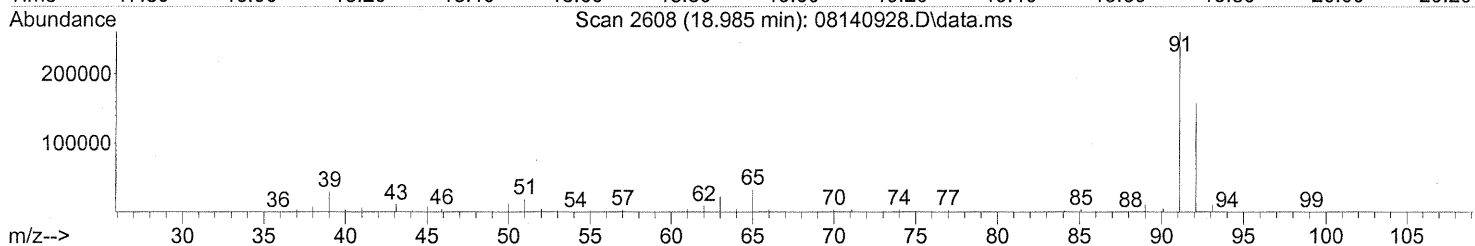
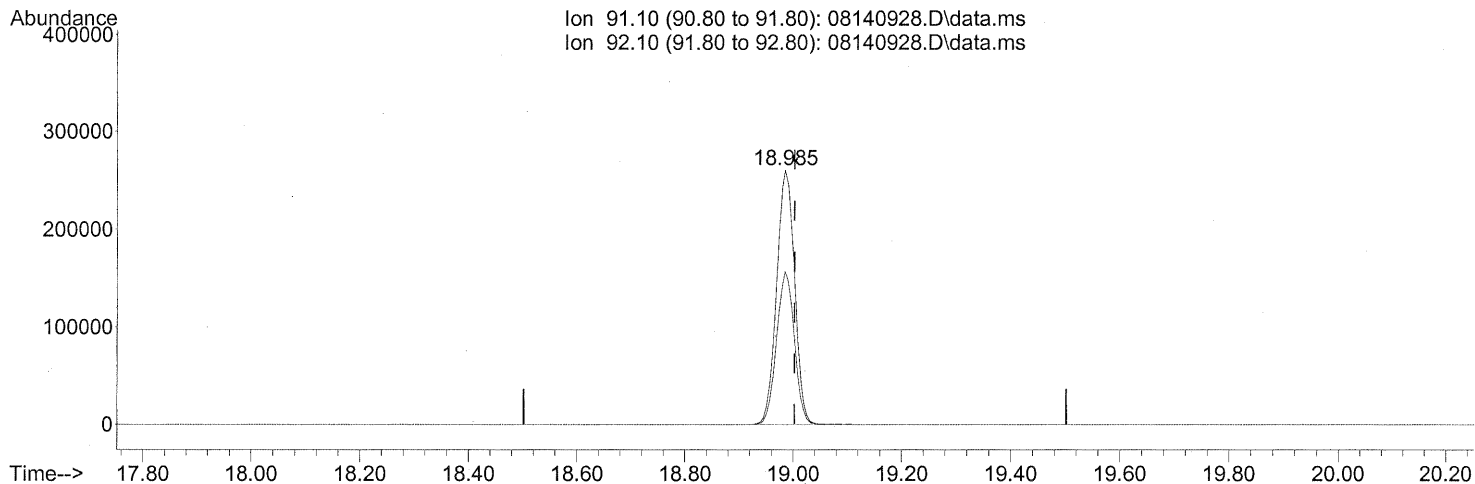
Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.35#
0.00	0.00	0.00
0.00	0.00	0.00

FP UK 8/20/09
com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140928.D
Acq On : 15 Aug 2009 00:56
Operator : WA
Sample : P0902721-007 (1000mL)
Misc : Env. Health & Engineering 99952
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 14.70ng

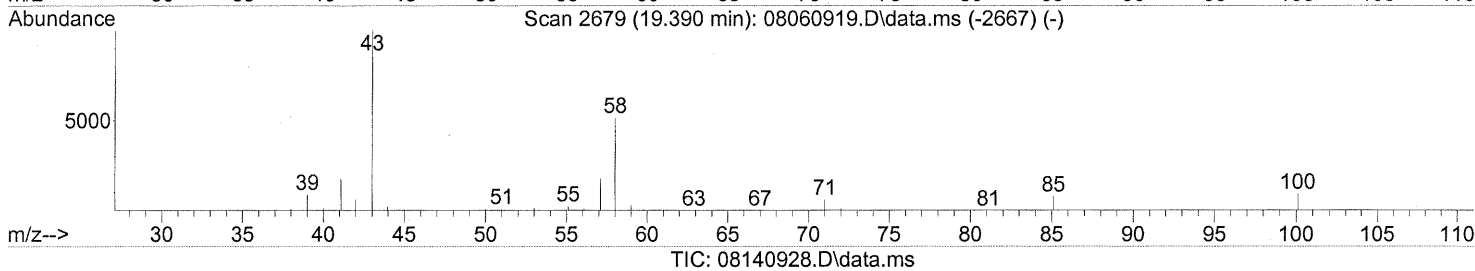
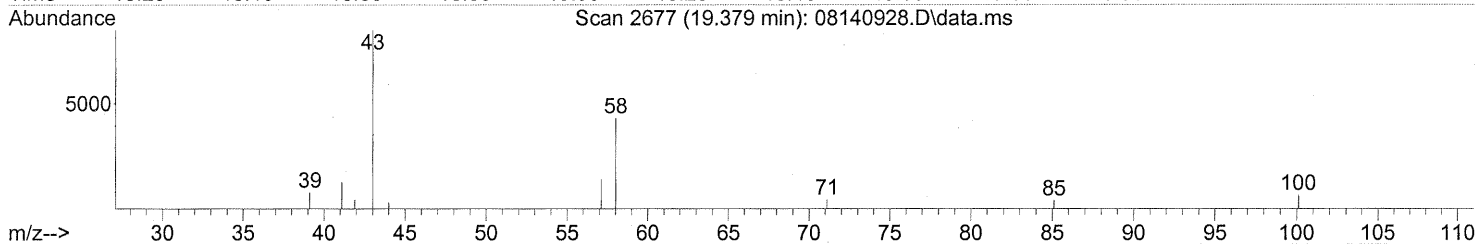
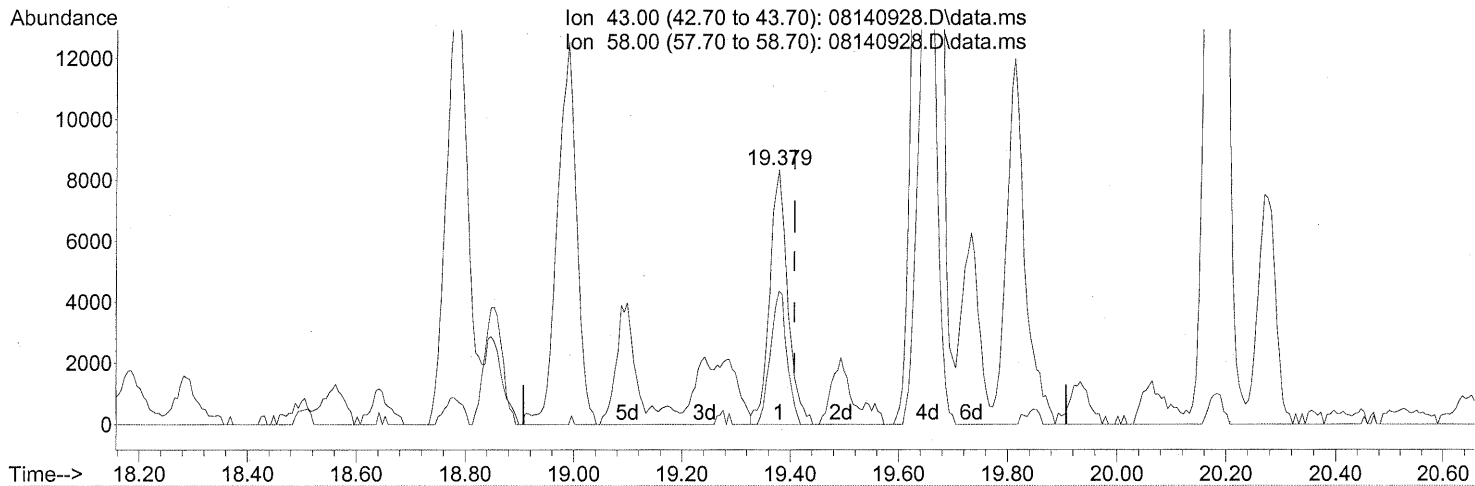
response 601878

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)

19.379min (-0.028) 0.71ng

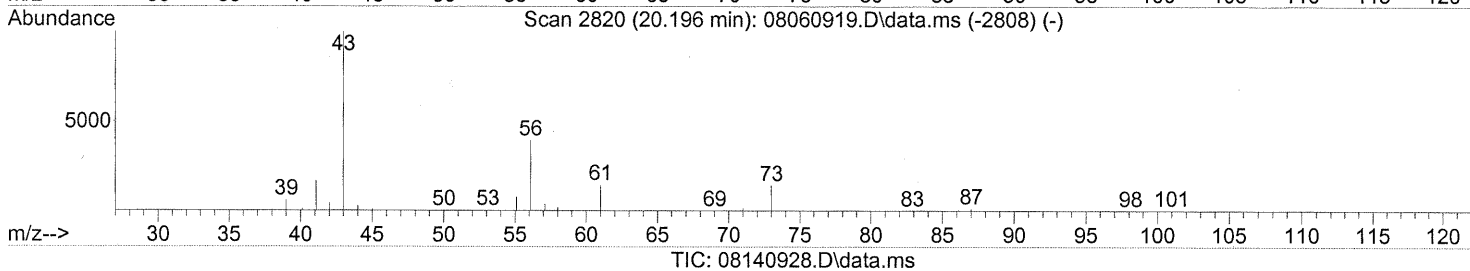
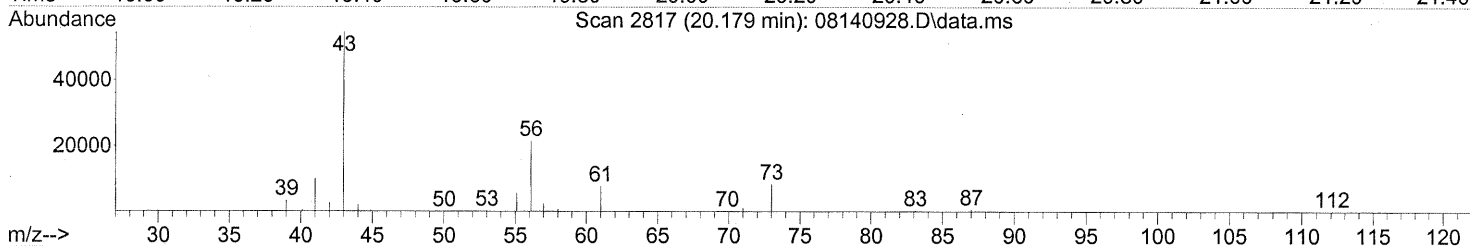
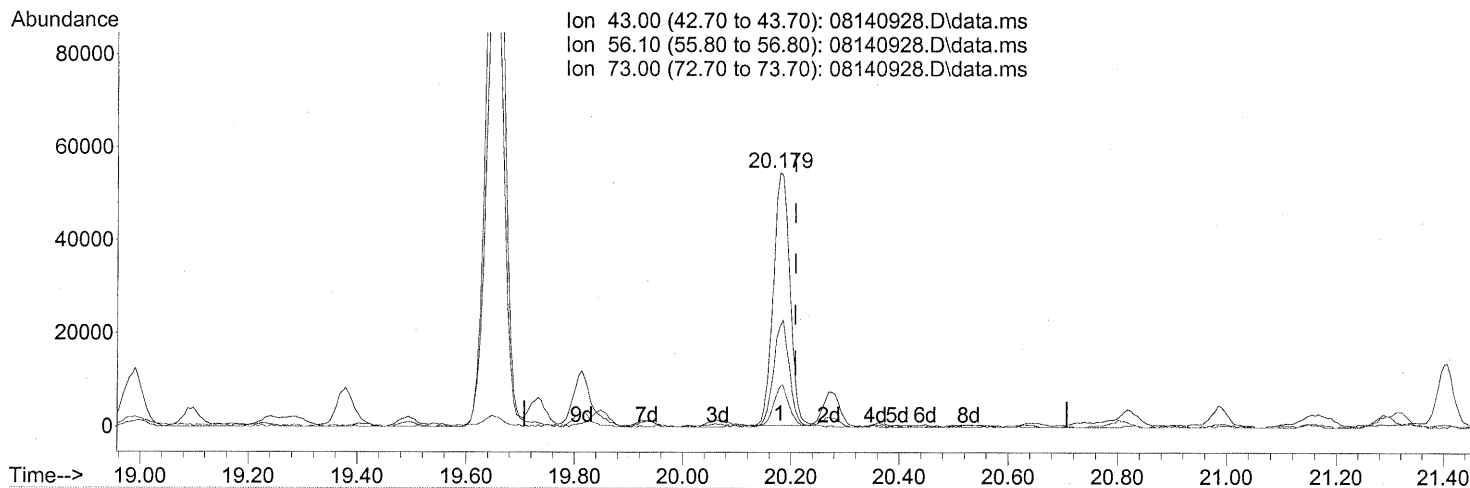
response 19352

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	47.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



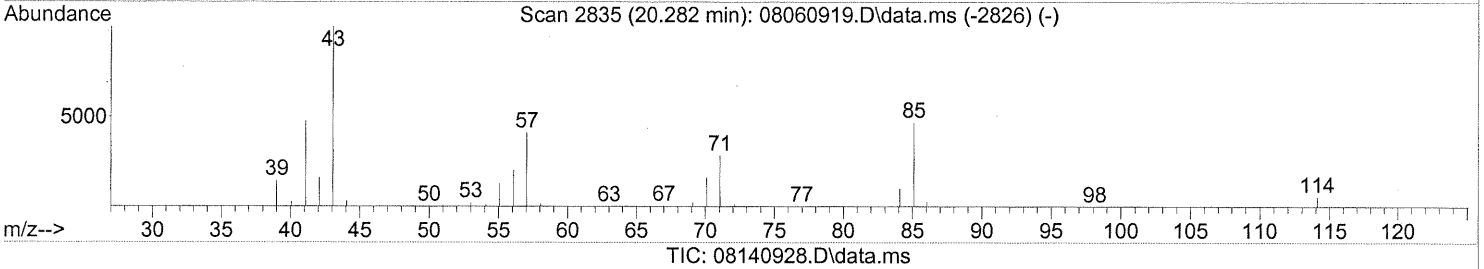
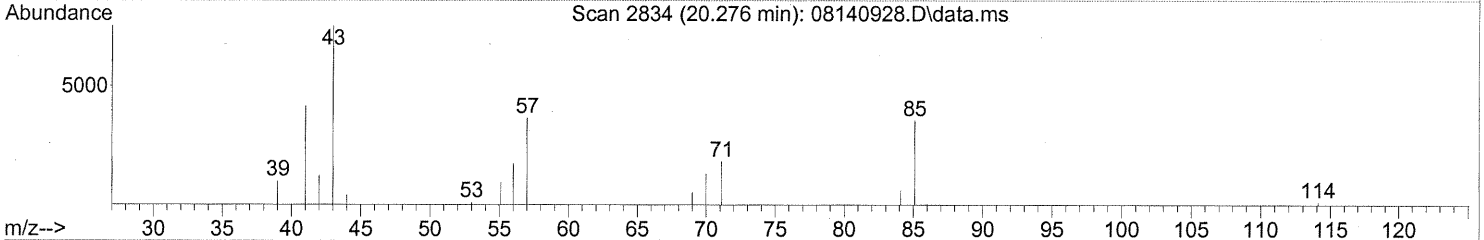
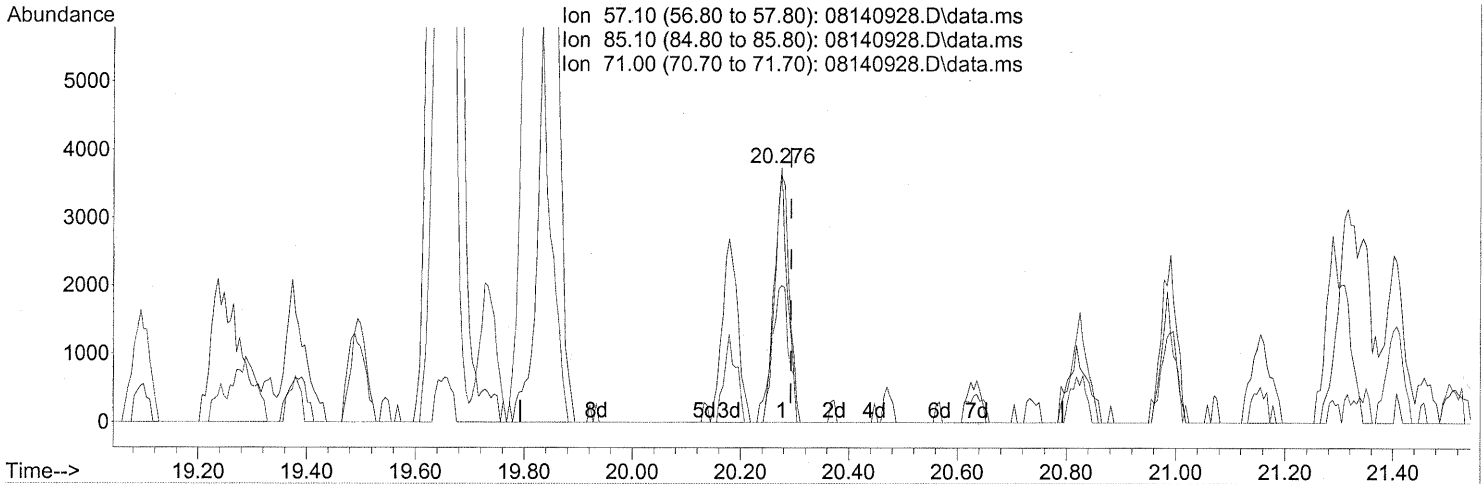
(62) n-Butyl Acetate (T)
 20.179min (-0.029) 3.61ng
 response 116040

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.49
73.00	14.80	16.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



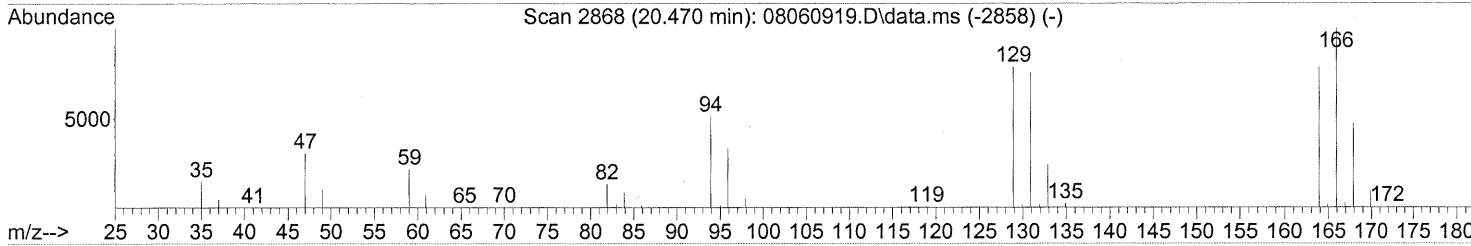
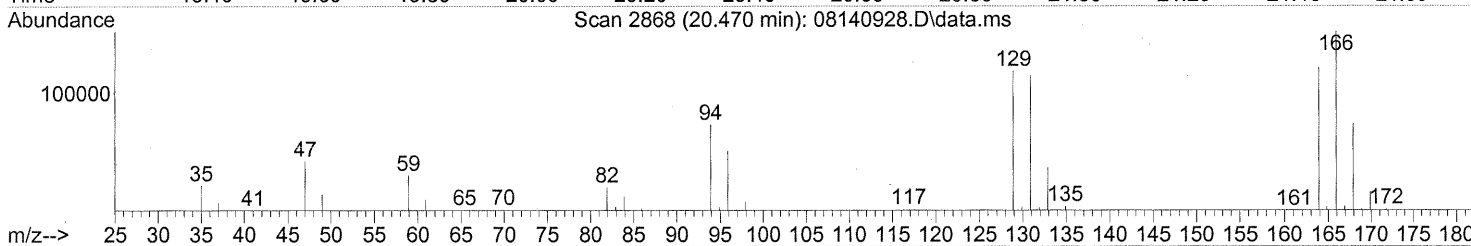
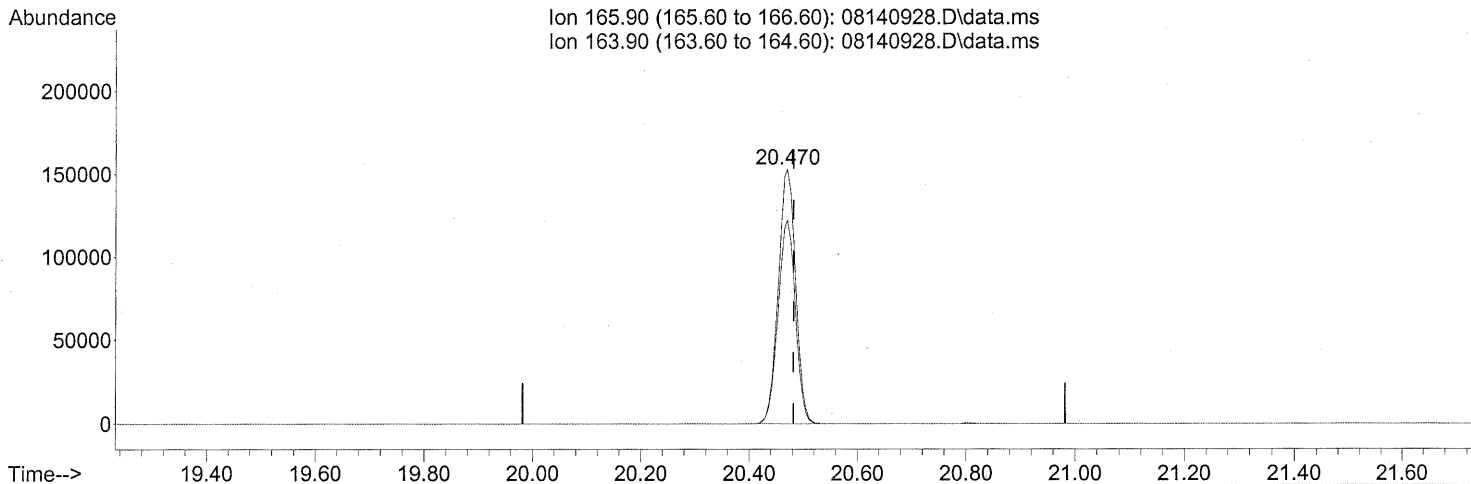
(63) n-Octane (T)
 20.276min (-0.017) 0.64ng
 response 6354

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	110.03
71.00	68.10	65.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140928.D\data.ms

(64) Tetrachloroethene (T)

20.470min (-0.011) 35.97ng

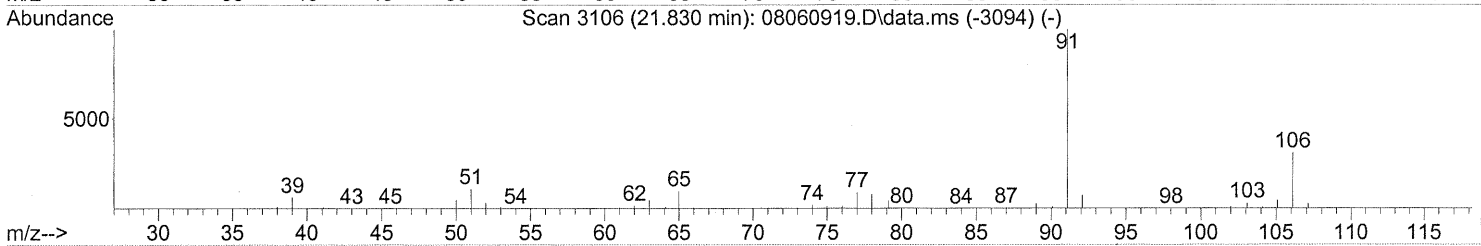
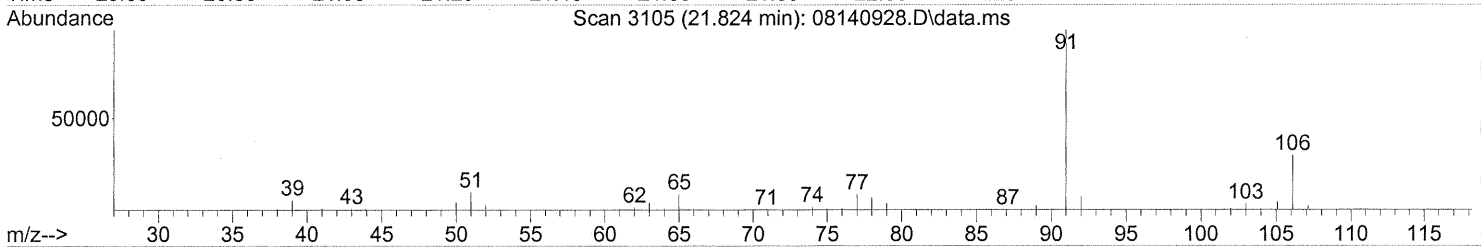
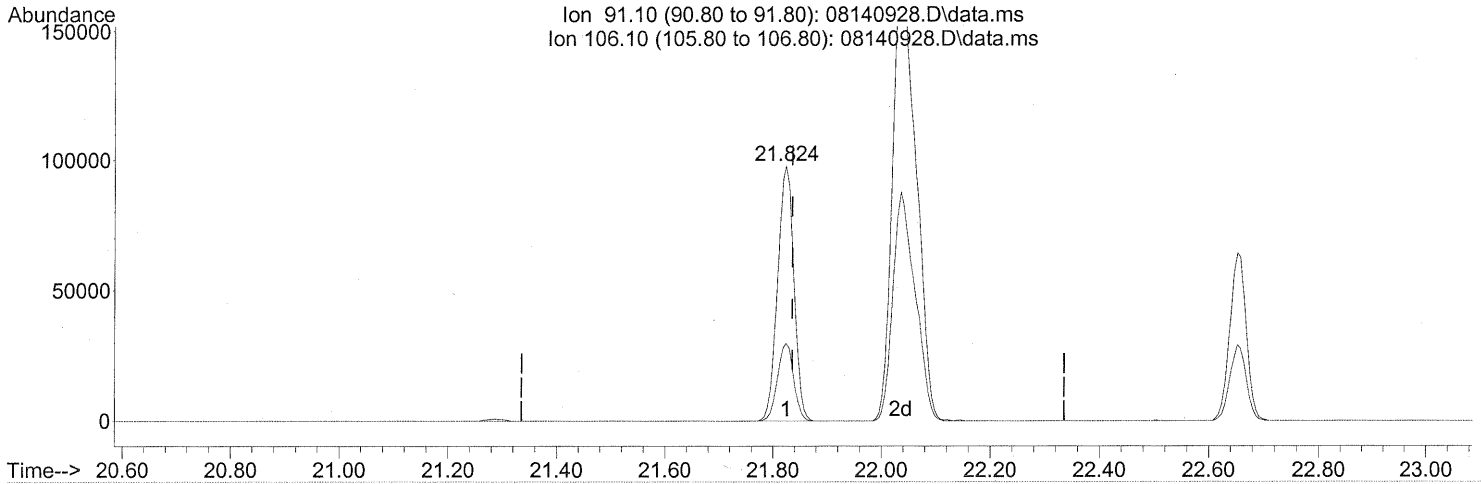
response 340938

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	79.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140928.D\data.ms

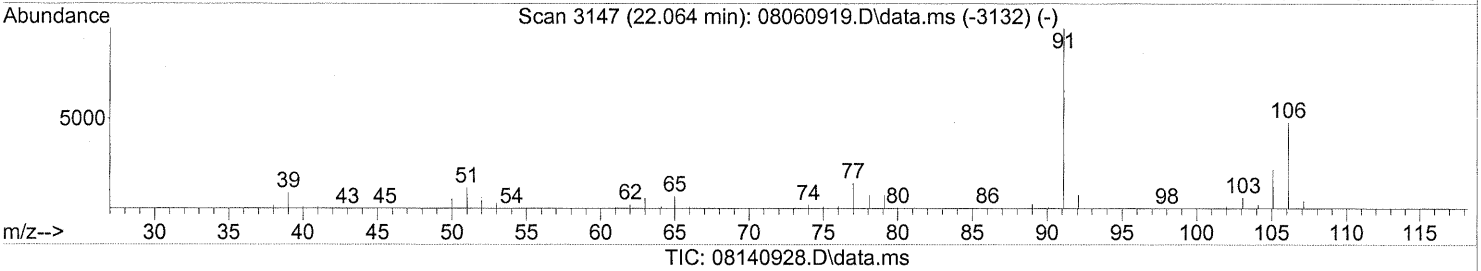
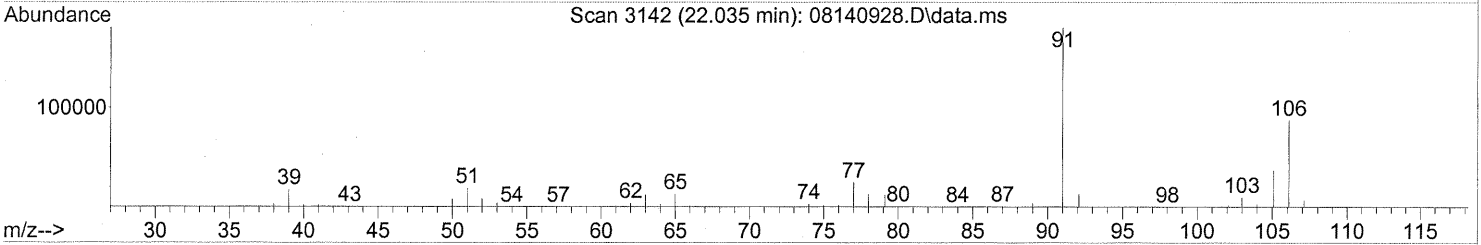
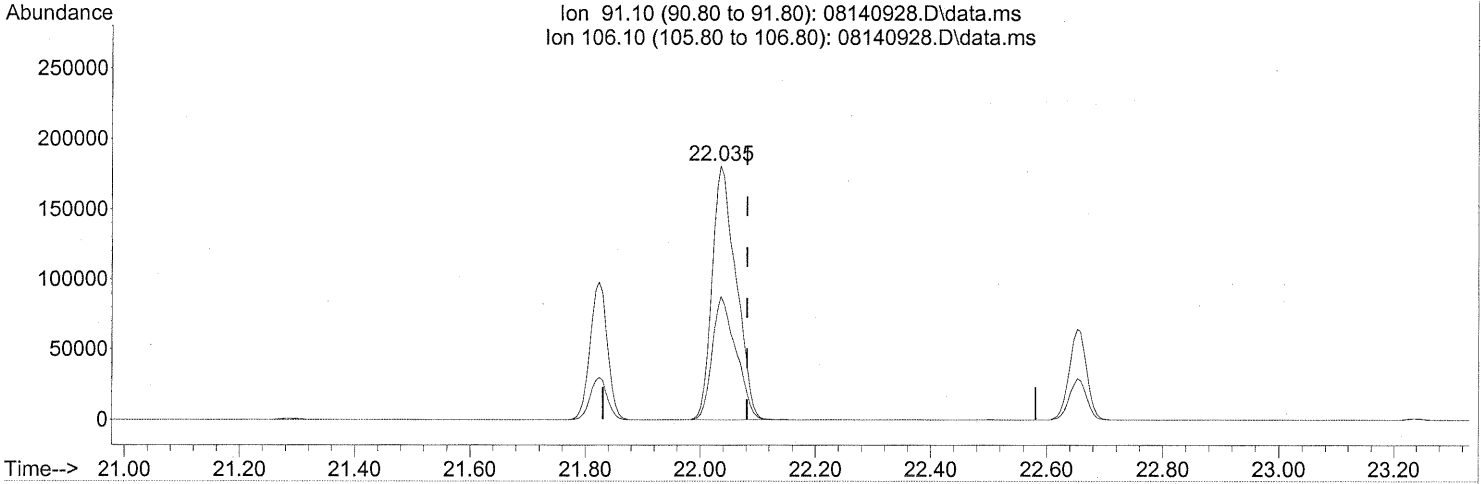
(66) Ethylbenzene (T)
 21.824min (-0.011) 4.37ng
 response 204789

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140928.D
Acq On : 15 Aug 2009 00:56
Operator : WA
Sample : P0902721-007 (1000mL)
Misc : Env. Health & Engineering 99952
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 13.69ng

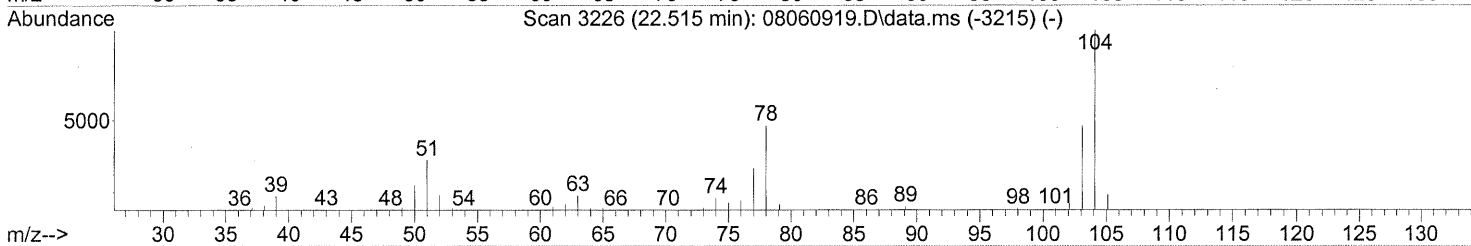
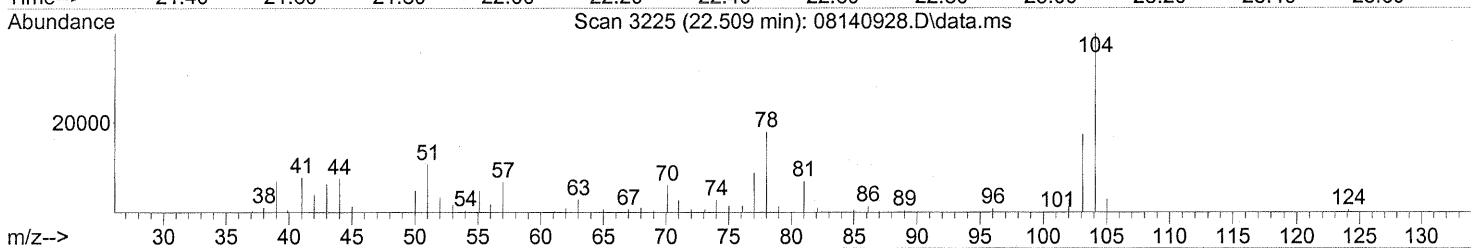
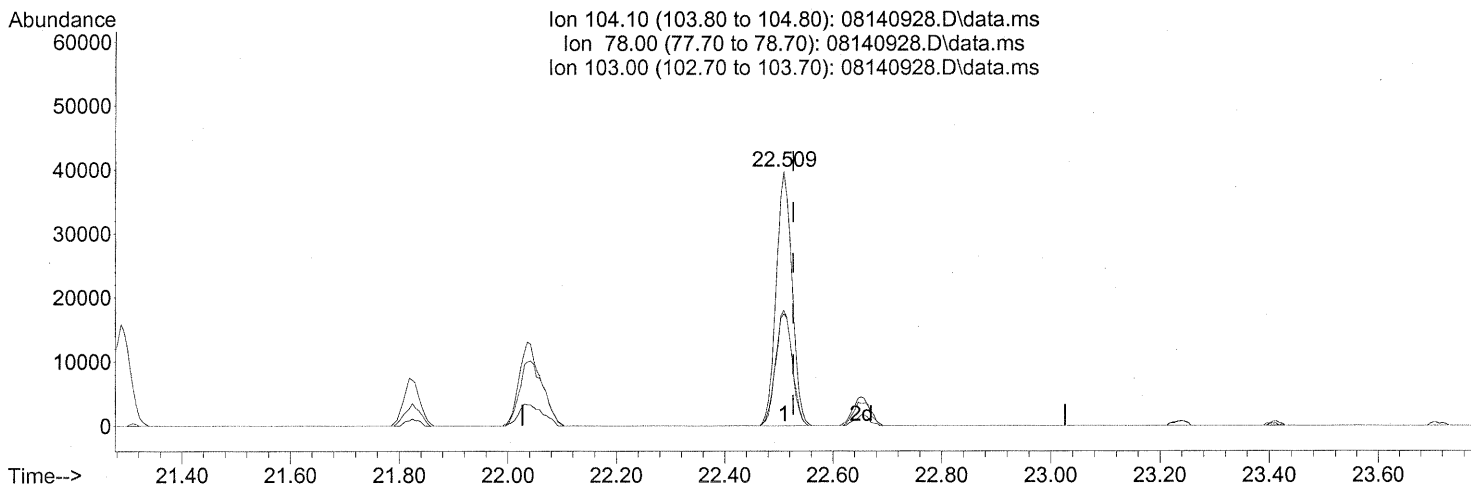
response 518451

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140928.D\data.ms

(69) Styrene (T)

22.509min (-0.017) 2.96ng

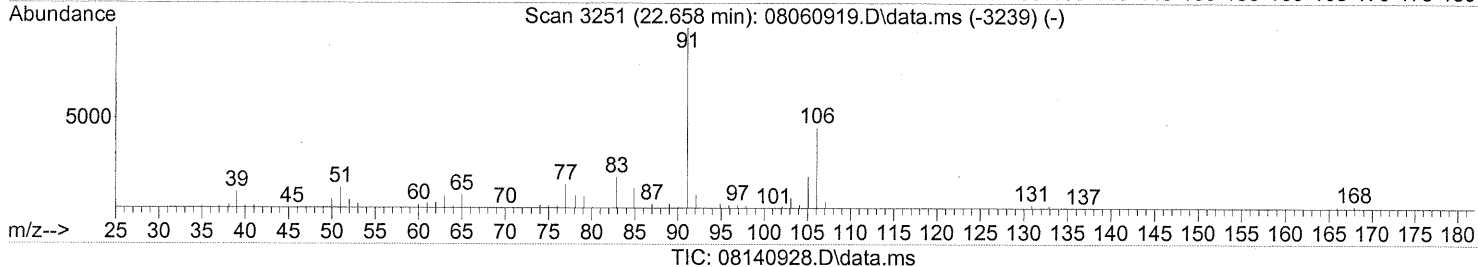
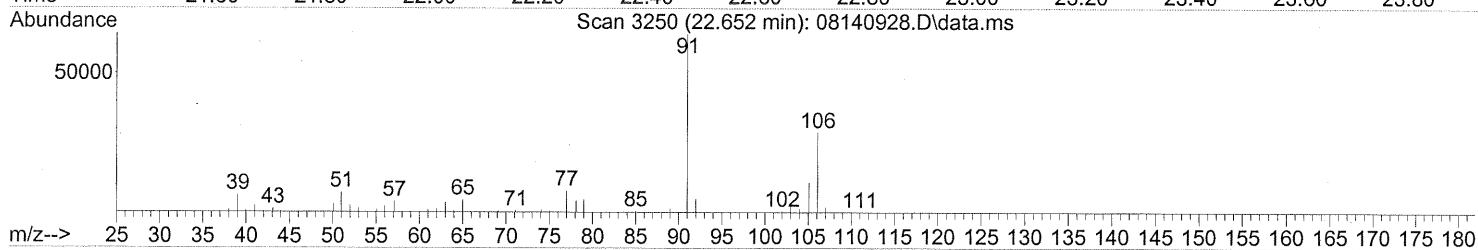
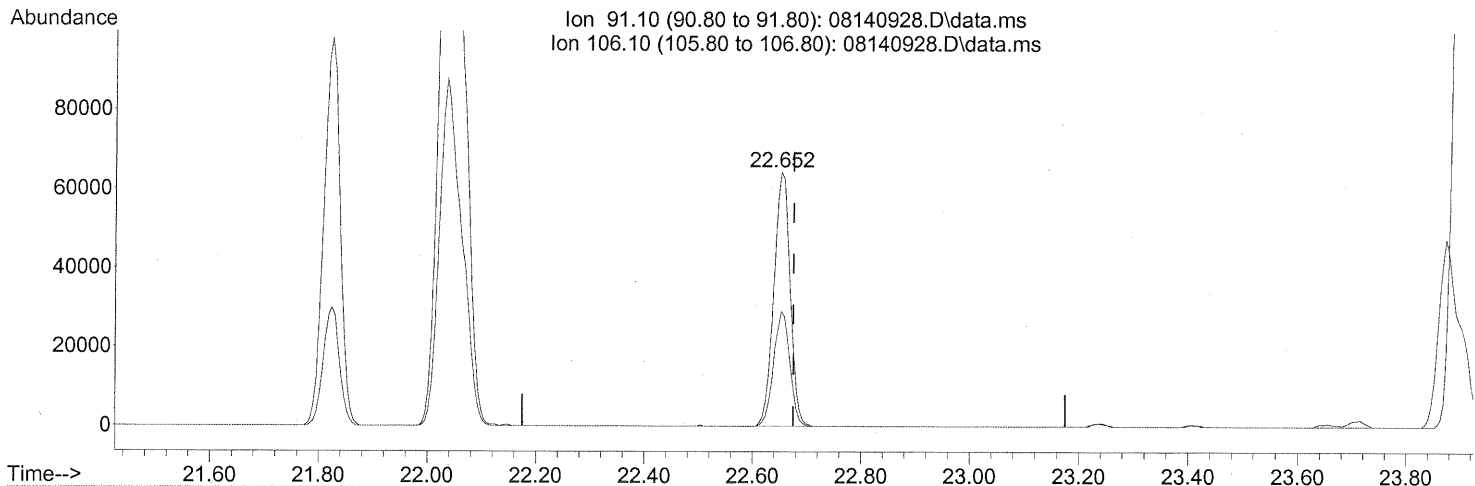
response 80925

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	47.11
103.00	46.20	46.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 3.54ng

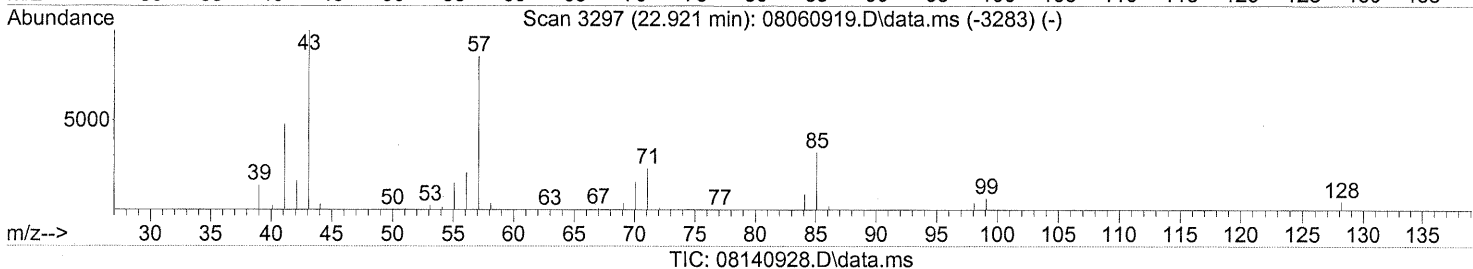
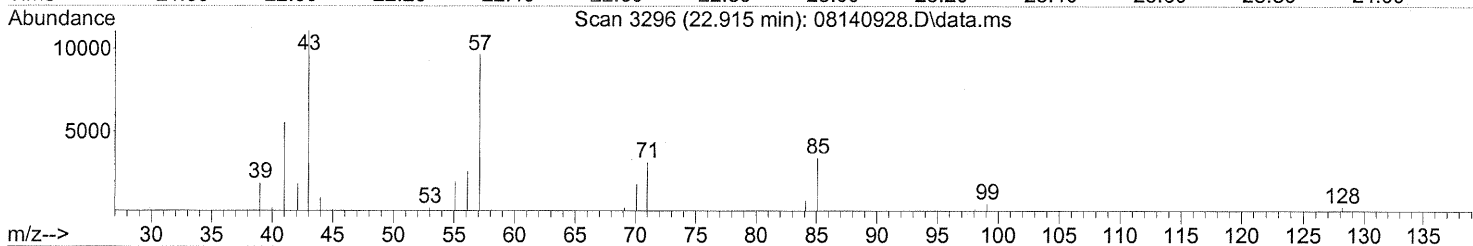
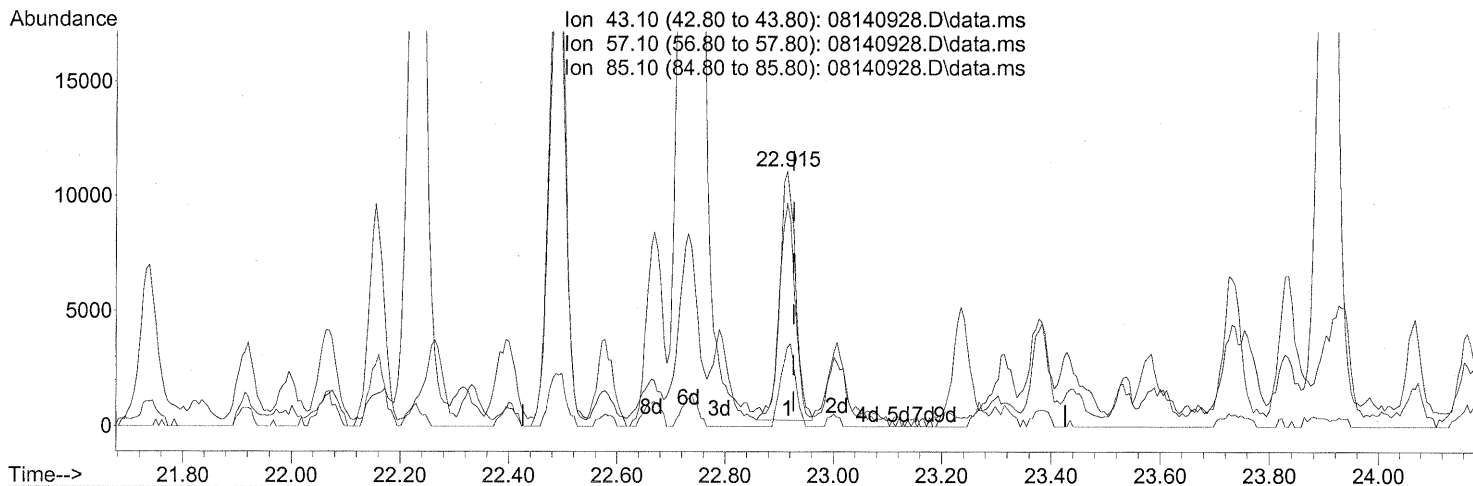
response 134591

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	44.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(71) n-Nonane (T)

22.915min (-0.011) 0.87ng

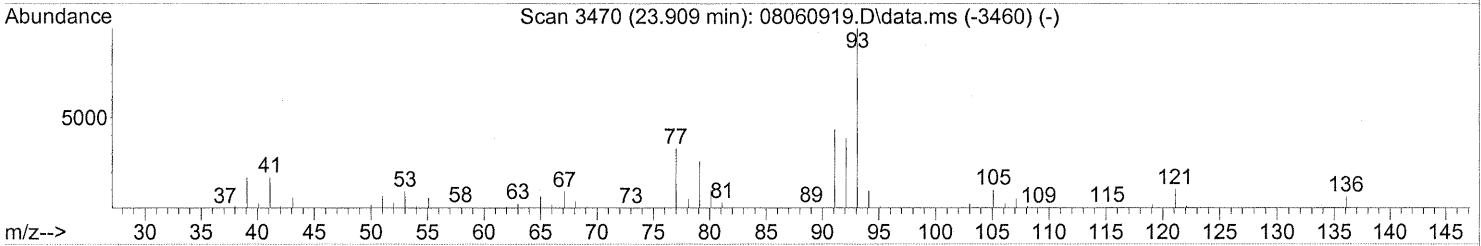
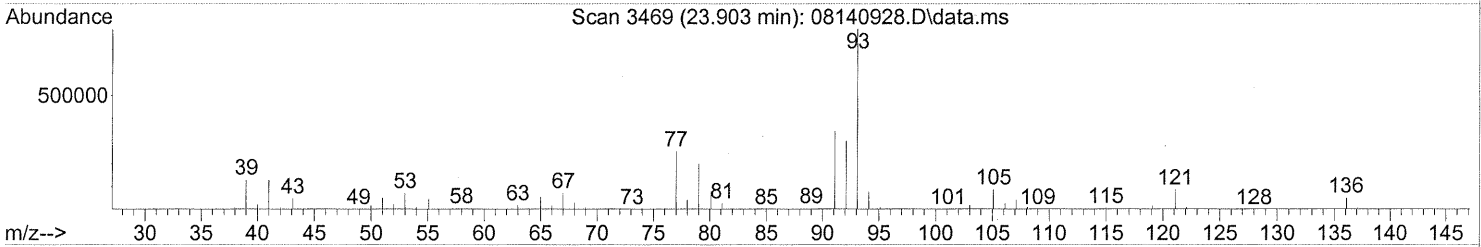
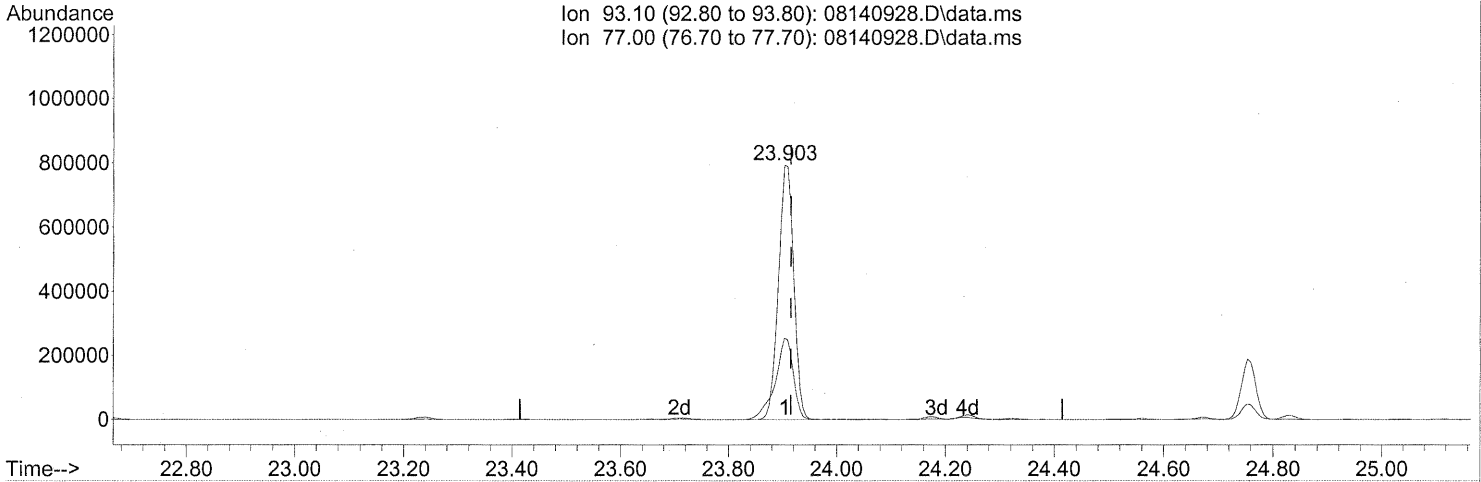
response 22028

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	80.89
85.10	30.40	30.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140928.D\data.ms

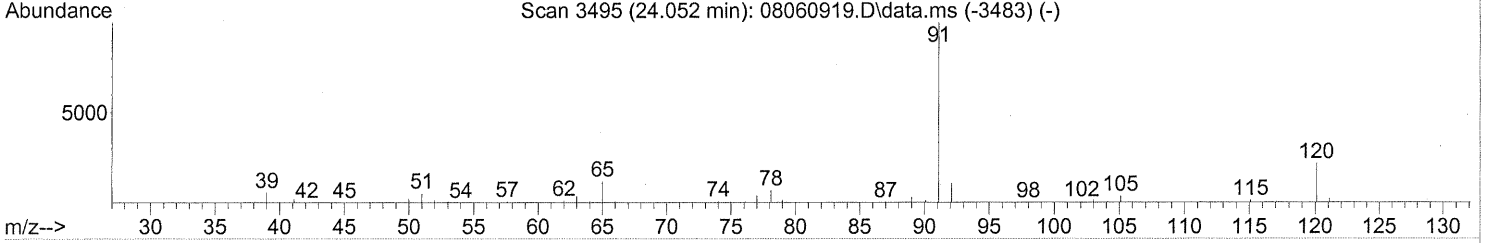
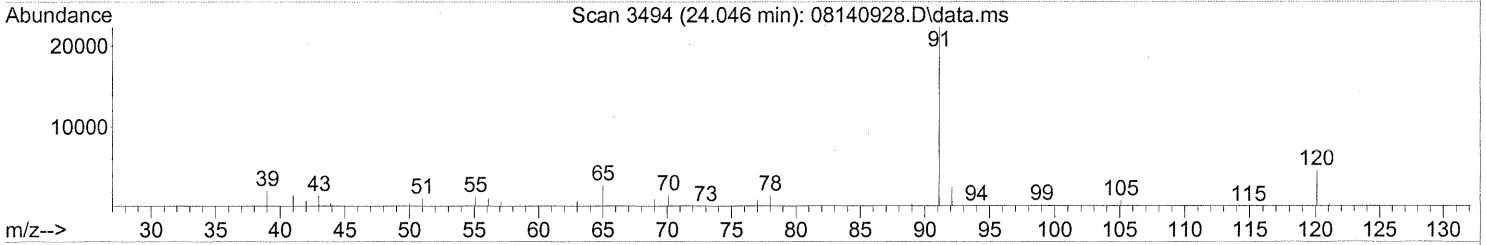
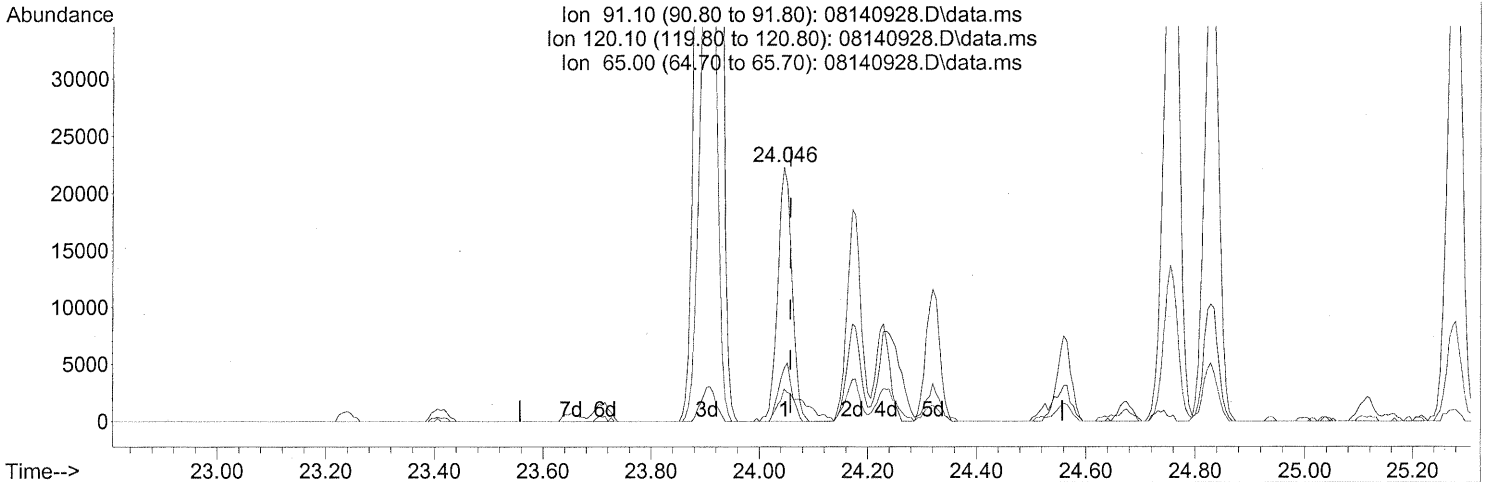
(75) alpha-Pinene (T)
 23.903min (-0.011) 63.31ng
 response 1556587

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	37.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.046min (-0.011) 0.68ng

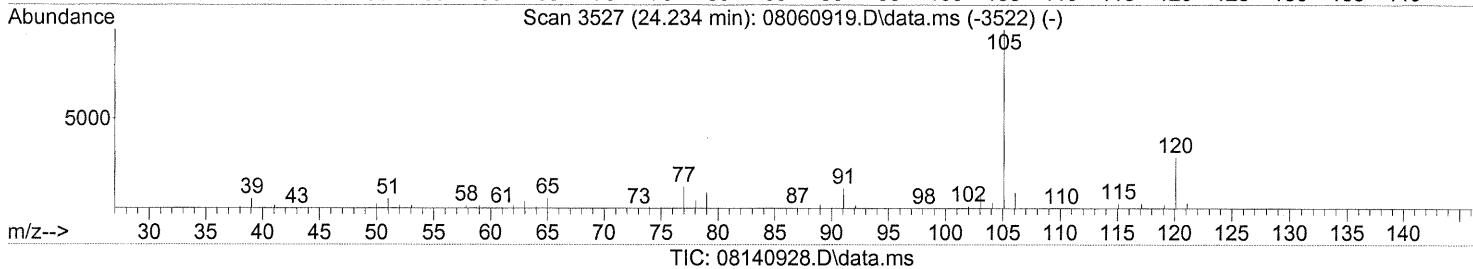
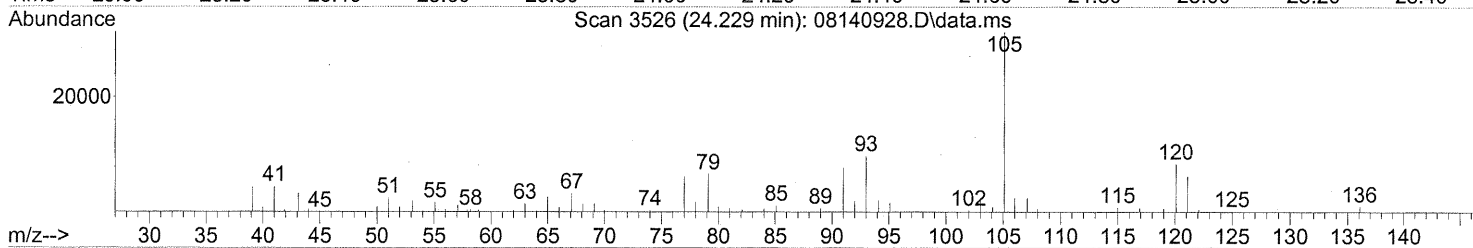
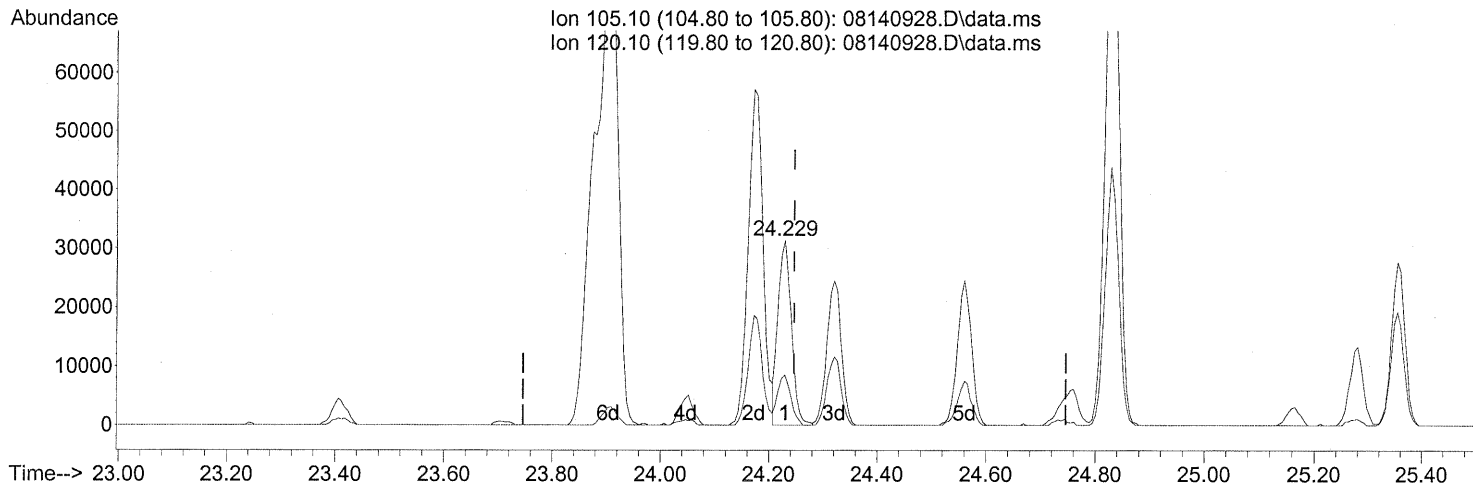
response 40882

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	20.87
65.00	12.00	22.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



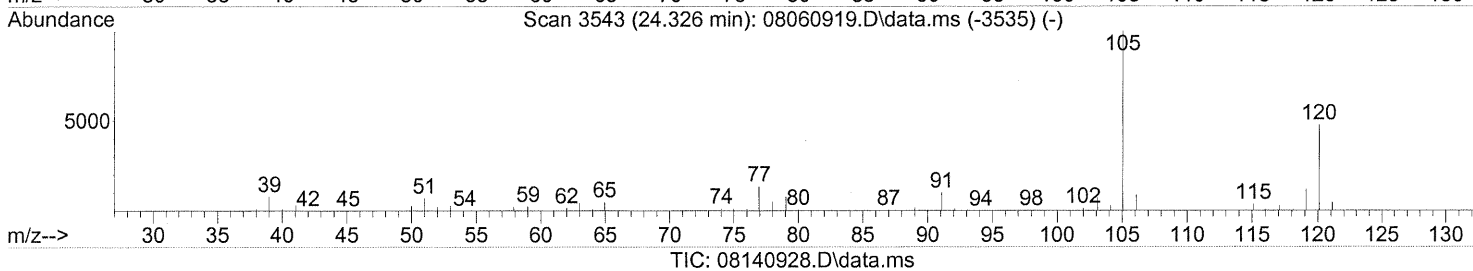
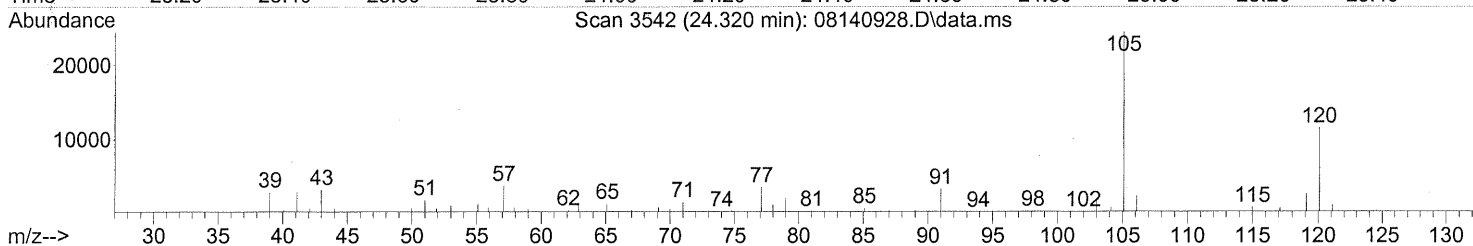
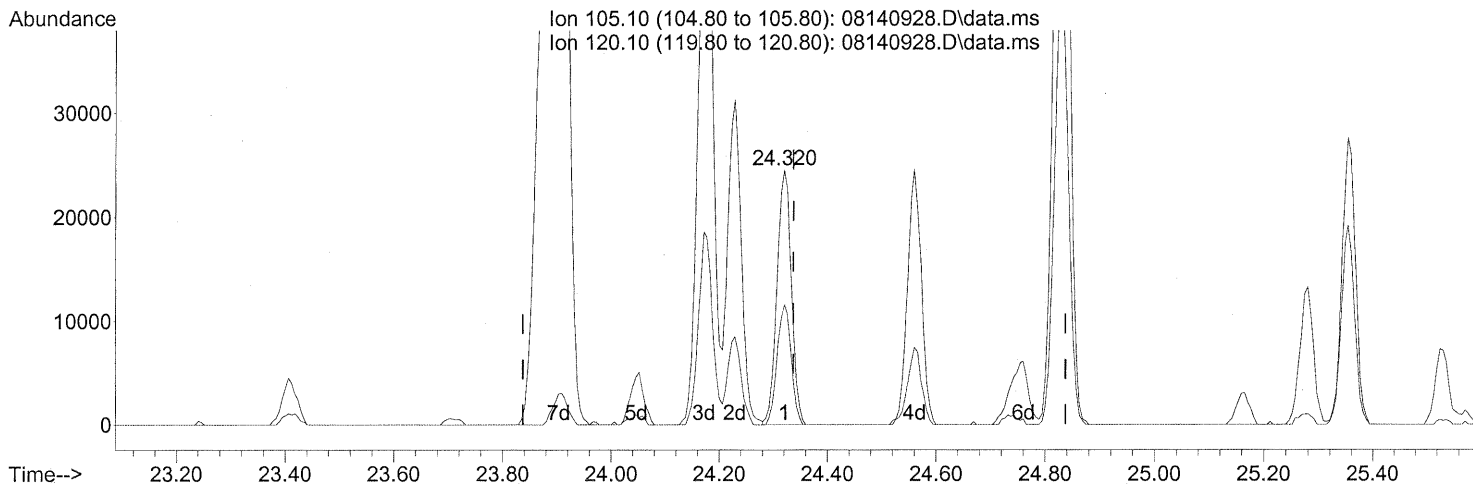
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 1.21ng
 response 53966

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	27.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 1.21ng

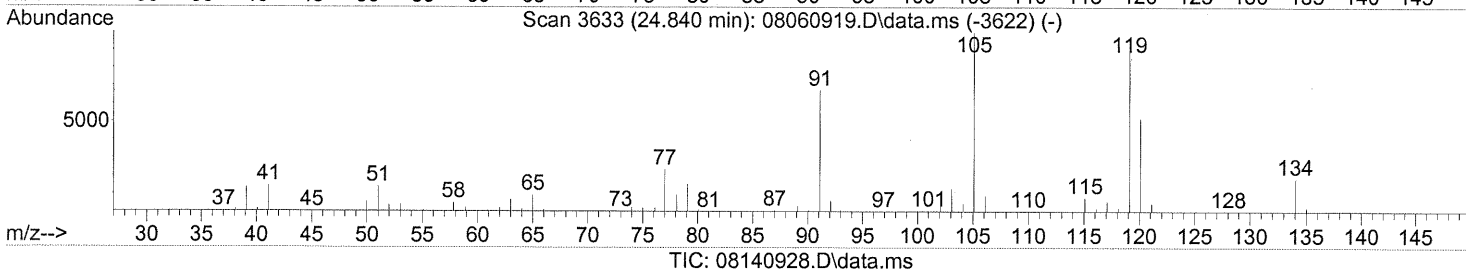
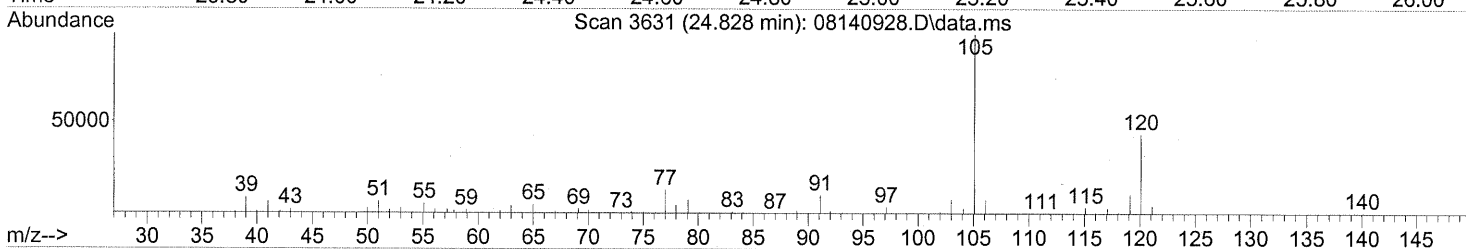
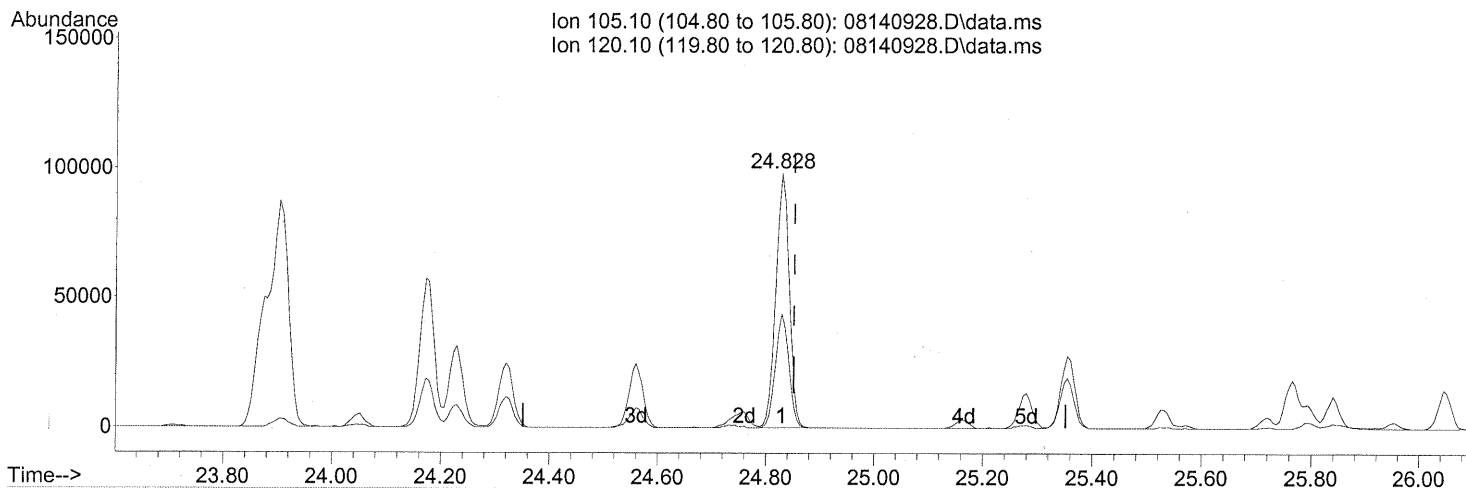
response 45322

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	45.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 4.43ng

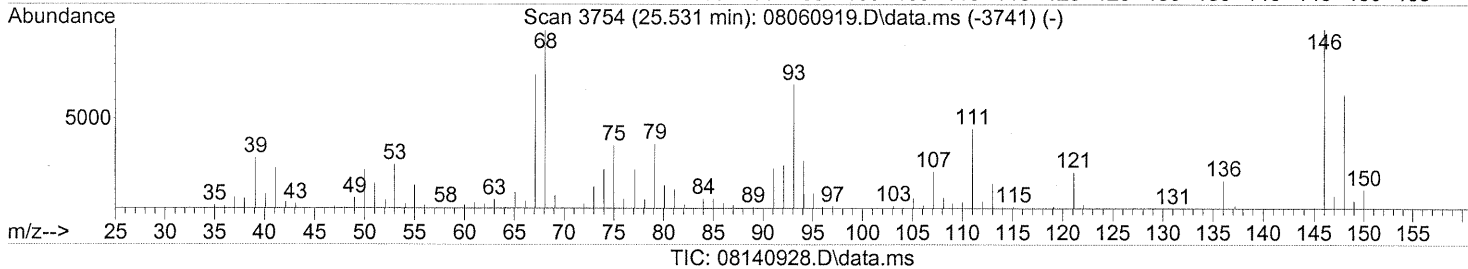
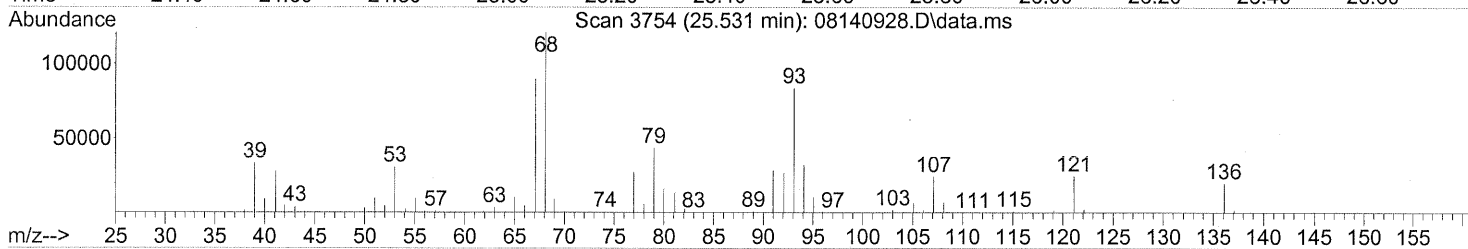
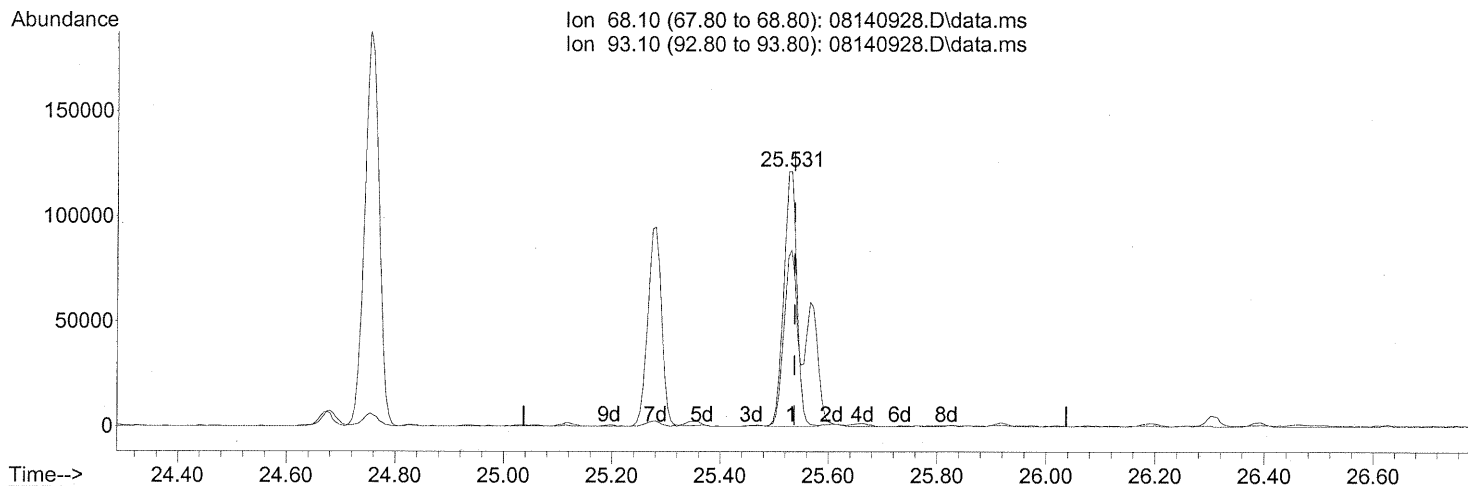
response 169380

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



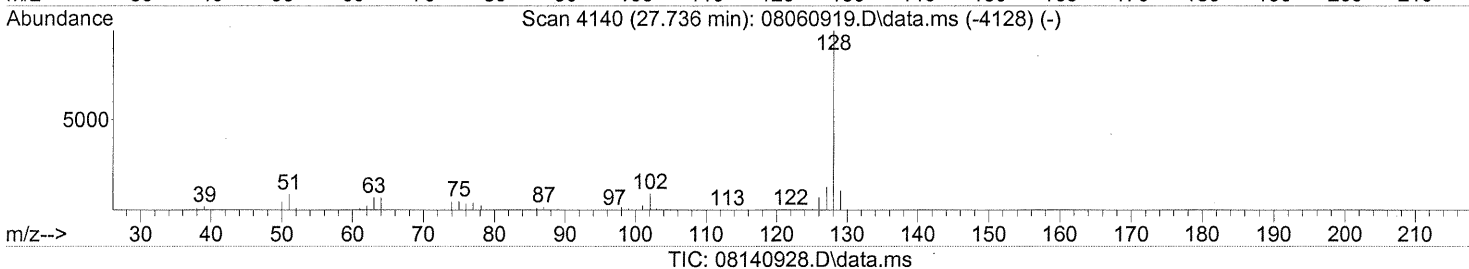
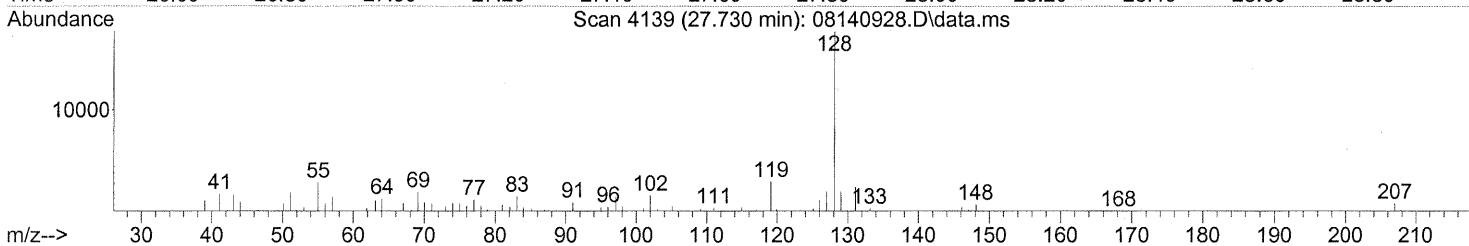
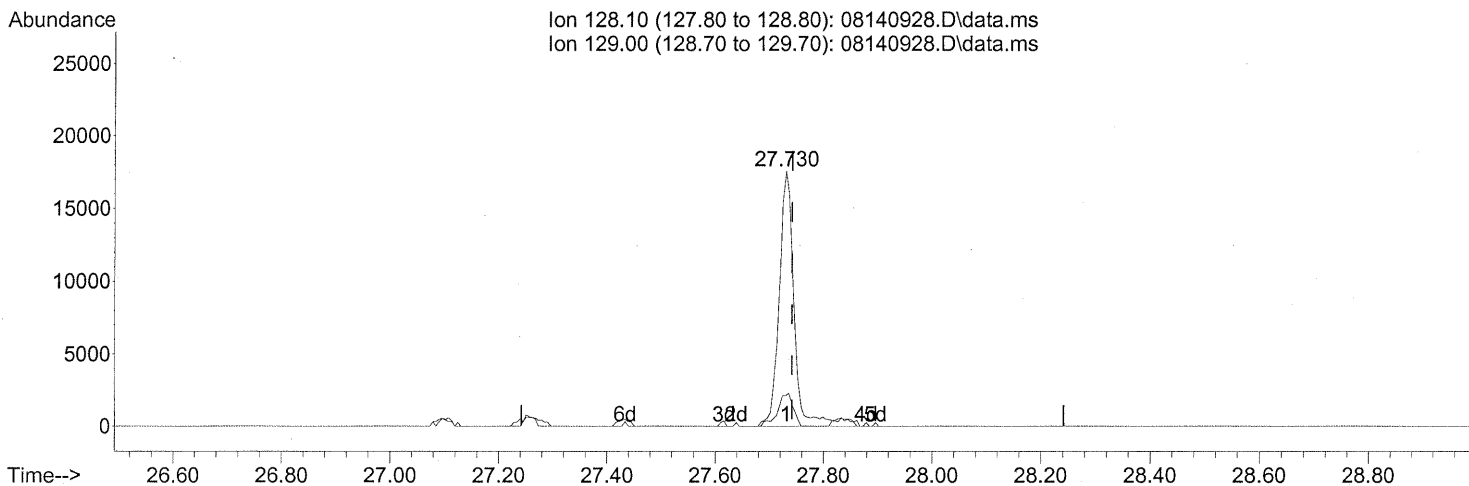
(91) d-Limonene (T)
 25.531min (-0.006) 12.78ng
 response 207643

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	75.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140928.D
 Acq On : 15 Aug 2009 00:56
 Operator : WA
 Sample : P0902721-007 (1000mL)
 Misc : Env. Health & Engineering 99952
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 07:21:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(95) Naphthalene (T)
 27.730min (-0.011) 0.66ng
 response 34279

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	13.10
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99953

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-008

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/7/09

Analyst: Wida Ang

Date Analyzed: 8/15/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC00953

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	2.7	0.75	1.6	0.44	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.75	0.60	0.15	
74-87-3	Chloromethane	0.87	0.15	0.42	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.059	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.068	
74-83-9	Bromomethane	0.27	0.15	0.070	0.039	
75-00-3	Chloroethane	ND	0.15	ND	0.057	
64-17-5	Ethanol	430	7.5	230	4.0	
75-05-8	Acetonitrile	230	0.75	140	0.45	E
107-02-8	Acrolein	5.0	0.75	2.2	0.33	
67-64-1	Acetone	110	7.5	45	3.2	
75-69-4	Trichlorofluoromethane	1.5	0.15	0.26	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	12	0.75	4.8	0.31	
107-13-1	Acrylonitrile	ND	0.75	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.038	
75-09-2	Methylene Chloride	2.4	0.75	0.69	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.048	
76-13-1	Trichlorotrifluoroethane	0.74	0.15	0.096	0.020	
75-15-0	Carbon Disulfide	1.1	0.75	0.36	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.038	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.042	
108-05-4	Vinyl Acetate	ND	7.5	ND	2.1	
78-93-3	2-Butanone (MEK)	8.0	0.75	2.7	0.25	

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.

E = Estimated; concentration exceeded calibration range.

Verified By: _____ Date: 8/24/09 **304**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99953

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-008

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: AC00953

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/15/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
141-78-6	Ethyl Acetate	5.5	0.75	1.5	0.21	
110-54-3	n-Hexane	1.7	0.75	0.47	0.21	
67-66-3	Chloroform	1.0	0.15	0.21	0.031	
109-99-9	Tetrahydrofuran (THF)	ND	0.75	ND	0.25	
107-06-2	1,2-Dichloroethane	6.5	0.15	1.6	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	Benzene	2.1	0.15	0.65	0.047	
56-23-5	Carbon Tetrachloride	0.61	0.15	0.097	0.024	
110-82-7	Cyclohexane	ND	0.75	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	0.23	0.15	0.035	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.75	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.75	ND	0.18	
142-82-5	n-Heptane	1.1	0.75	0.27	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	ND	0.17	
108-10-1	4-Methyl-2-pentanone	3.7	0.75	0.90	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	21	0.75	5.7	0.20	
591-78-6	2-Hexanone	0.82	0.75	0.20	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	n-Butyl Acetate	4.8	0.75	1.0	0.16	

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: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99953
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-008

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: AC00953

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/15/09
Volume(s) Analyzed: 1.00 Liter(s)

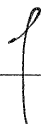
Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.0	0.75	0.21	0.16	
127-18-4	Tetrachloroethene	53	0.15	7.8	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	6.4	0.75	1.5	0.17	
179601-23-1	m,p-Xylenes	20	0.75	4.6	0.17	
75-25-2	Bromoform	ND	0.75	ND	0.073	
100-42-5	Styrene	4.5	0.75	1.1	0.18	
95-47-6	o-Xylene	5.2	0.75	1.2	0.17	
111-84-2	n-Nonane	1.4	0.75	0.26	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.75	ND	0.15	
80-56-8	alpha-Pinene	95	0.75	17	0.13	
103-65-1	n-Propylbenzene	1.0	0.75	0.20	0.15	
622-96-8	4-Ethyltoluene	1.8	0.75	0.37	0.15	
108-67-8	1,3,5-Trimethylbenzene	1.8	0.75	0.37	0.15	
95-63-6	1,2,4-Trimethylbenzene	6.6	0.75	1.3	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.029	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	21	0.75	3.7	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	ND	0.078	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	ND	0.10	
91-20-3	Naphthalene	0.90	0.75	0.17	0.14	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

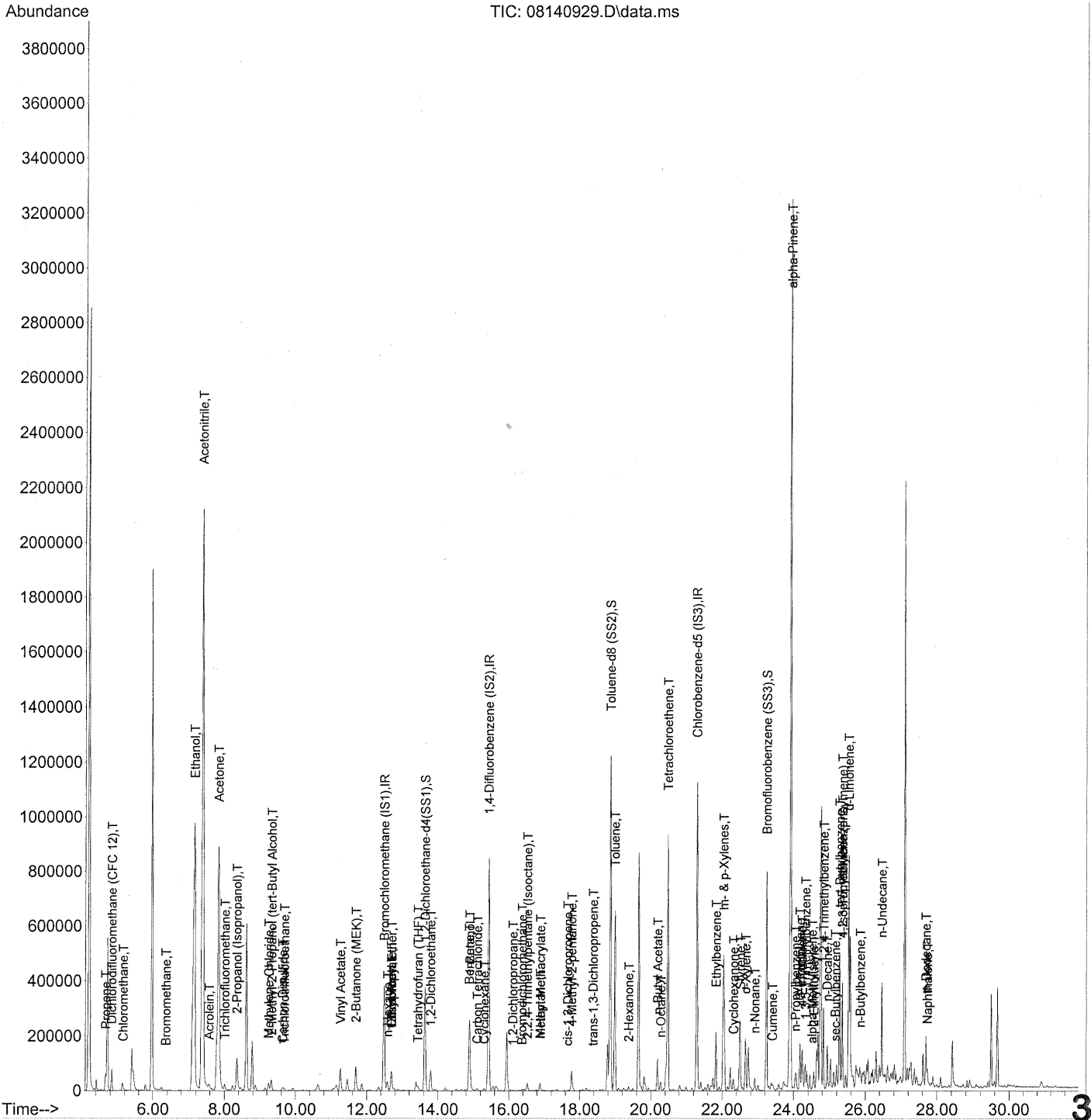
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By:  Date: 8/24/09 **306**

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 20 09:42:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953 ✓ ✓
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 20 09:42:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	194665	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	968998	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	471467	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	386688	22.854	ng	-0.03
Spiked Amount	25.000			Recovery =	91.40%	✓
57) Toluene-d8 (SS2)	18.85	98	1034672	25.116	ng	-0.01
Spiked Amount	25.000			Recovery =	100.48%	✓
73) Bromofluorobenzene (SS3)	23.24	174	254805	23.454	ng	0.00
Spiked Amount	25.000			Recovery =	93.80%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	24095	1.804	ng	92
3) Dichlorodifluoromethan...	4.84	85	43375	1.987	ng	98
4) Chloromethane	5.16	50	8532	0.582	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	440	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	112	N.D.		
8) Bromomethane	6.36	94	1556	0.181	ng	96
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.15	45	2399894	283.426	ng	100
11) Acetonitrile	7.39	41	3764564	151.811	ng	E 100
12) Acrolein	7.58	56	21687	3.365	ng	98
13) Acetone	7.83	58	564771	70.690	ng	99
14) Trichlorofluoromethane	8.01	101	19359	0.981	ng	98
15) 2-Propanol (Isopropanol)	8.35	45	246443	7.849	ng	99
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.33	59	5802	0.208	ng	# 1
19) Methylene Chloride	9.25	84	17035	1.588	ng	94
20) 3-Chloro-1-propene (Al...	9.44	41	93	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3528	0.492	ng	98
22) Carbon Disulfide	9.63	76	28157	0.744	ng	95
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	11.26	86	7528	4.630	ng	# 79
27) 2-Butanone (MEK)	11.70	72	38458	5.331	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.70	87	1158	0.120	ng	# 1
30) Ethyl Acetate	12.69	61	13703	3.646	ng	97
31) n-Hexane	12.58	57	21290	1.107	ng	98

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 20 09:42:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	11661	0.689 ng		99
34) Tetrahydrofuran (THF)	13.44	72	3225	0.419 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	66811	4.319 ng		98
38) 1,1,1-Trichloroethane	14.18	97	202	N.D.		
39) Isopropyl Acetate	14.87	61	182	N.D.		
40) 1-Butanol	14.89	56	195724	15.563 ng		79
41) Benzene	14.88	78	58943	1.384 ng		98
42) Carbon Tetrachloride	15.11	117	5494	0.405 ng		100
43) Cyclohexane	15.30	84	3938	0.252 ng	#	12
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.11	63	878	0.082 ng	#	58
46) Bromodichloromethane	16.37	83	2184	0.156 ng		75
47) Trichloroethene	16.43	130	117	N.D.		
48) 1,4-Dioxane	16.55	88	237	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	29752	0.593 ng		92
50) Methyl Methacrylate	16.89	100	1921	0.490 ng	#	1
51) n-Heptane	16.89	71	8405	0.735 ng		98
52) cis-1,3-Dichloropropene	17.66	75	1822	0.103 ng		84
53) 4-Methyl-2-pentanone	17.77	58	25209	2.462 ng		99
54) trans-1,3-Dichloropropene	18.37	75	1734	0.103 ng		65
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	575799	14.222 ng		99
59) 2-Hexanone	19.38	43	14739	0.547 ng		90
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	102472	3.229 ng		96
63) n-Octane	20.28	57	6500	0.664 ng		98
64) Tetrachloroethene	20.47	166	330718	35.300 ng		99
65) Chlorobenzene	21.34	112	213	N.D.		
66) Ethylbenzene	21.82	91	198623	4.292 ng		99
67) m- & p-Xylenes	22.04	91	500203	13.360 ng		98
68) Bromoform	22.15	173	328	N.D.		
69) Styrene	22.51	104	80895	2.989 ng		99
70) o-Xylene	22.65	91	129142	3.440 ng		98
71) n-Nonane	22.91	43	23088	0.926 ng		99
72) 1,1,2,2-Tetrachloroethane	22.65	83	286	N.D.		
74) Cumene	23.41	105	8524	0.180 ng		97
75) alpha-Pinene	23.91	93	1544982	63.566 ng		79
76) n-Propylbenzene	24.05	91	39910	0.670 ng		90
77) 3-Ethyltoluene	24.17	105	106340	2.347 ng		99
78) 4-Ethyltoluene	24.23	105	53355	1.215 ng		98
79) 1,3,5-Trimethylbenzene	24.32	105	45128	1.219 ng		100

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 20 09:42:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

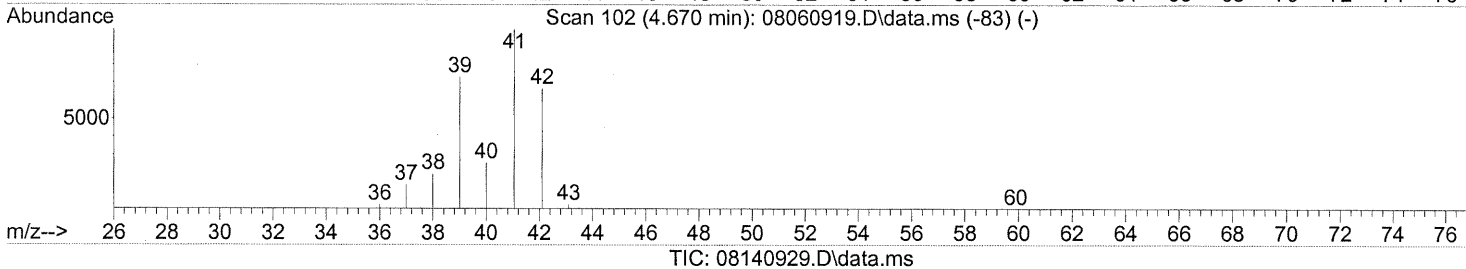
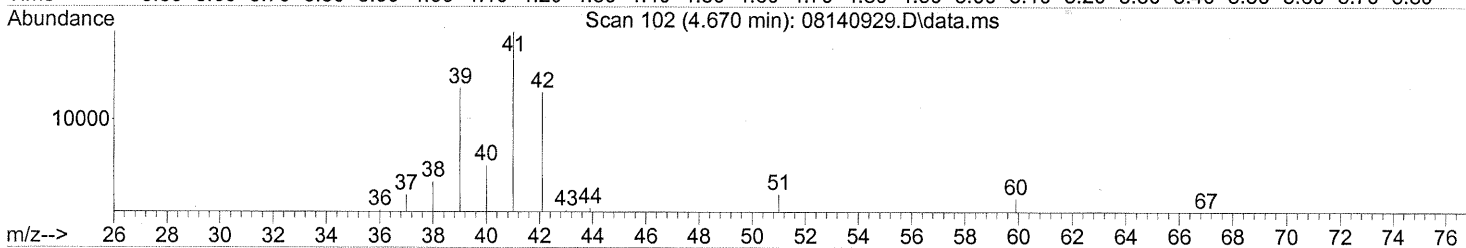
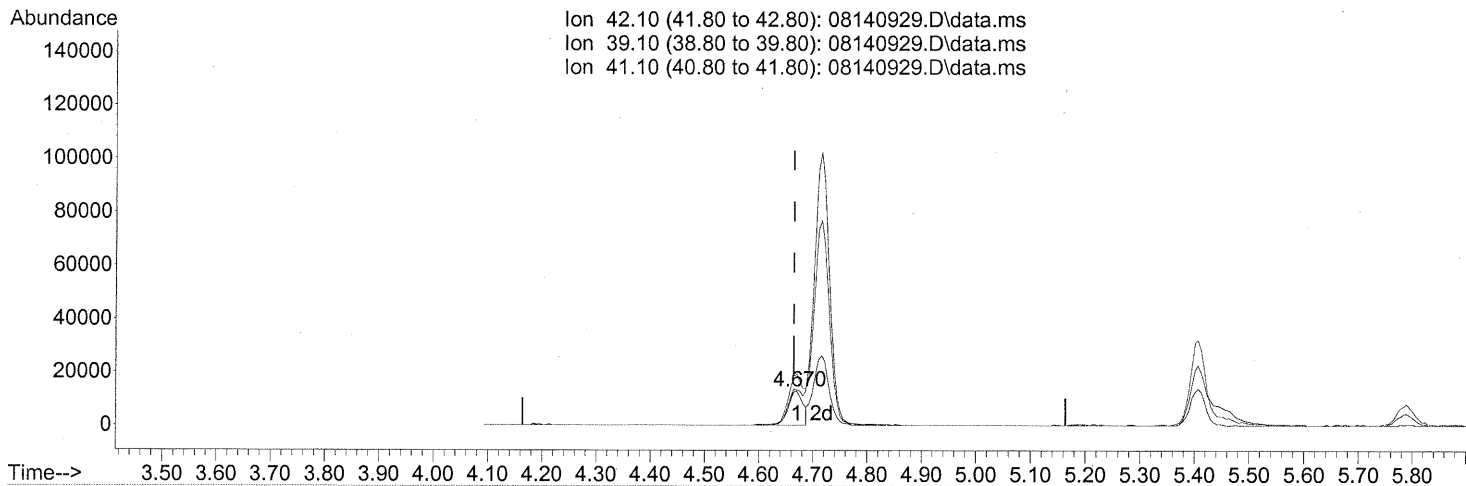
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1499	0.076	ng	# 67
81) 2-Ethyltoluene	24.56	105	43154	0.944	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	165893	4.393	ng	89
83) n-Decane	24.93	57	64043	2.608	ng	92
84) Benzyl Chloride	25.01	91	387	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	629	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	629	N.D.		
87) sec-Butylbenzene	25.16	105	5249	0.103	ng	# 75
88) 4-Isopropyltoluene (p-...	25.35	119	158895	3.493	ng	95
89) 1,2,3-Trimethylbenzene	25.35	105	49608	1.289	ng	73
90) 1,2-Dichlorobenzene	25.10	146	629	N.D.		
91) d-Limonene	25.53	68	222246	13.839	ng	92
92) 1,2-Dibromo-3-Chloropr...	26.46	157	204	N.D.		
93) n-Undecane	26.46	57	123830	4.740	ng	90
94) 1,2,4-Trichlorobenzene	27.58	180	88	N.D.		
95) Naphthalene	27.73	128	30948	0.603	ng	91
96) n-Dodecane	27.69	57	60835	2.005	ng	100
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	25528	1.522	ng	93
99) tert-Butylbenzene	25.27	119	13988	0.383	ng	97
100) n-Butylbenzene	25.86	91	20101	0.478	ng	# 59

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

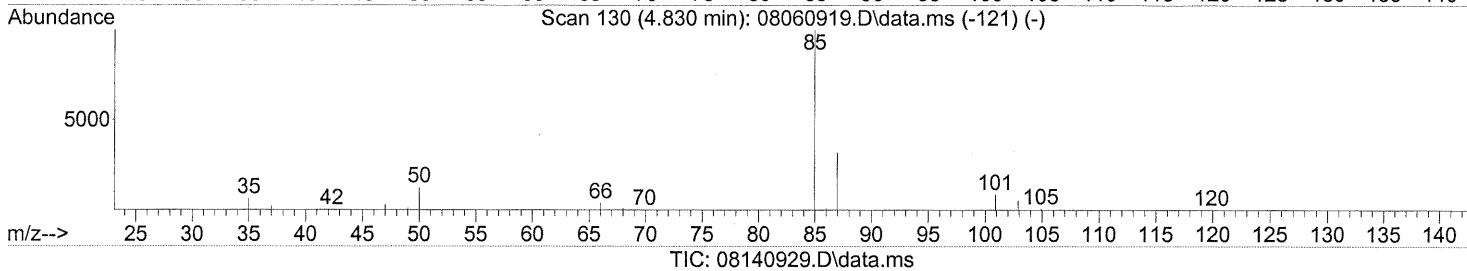
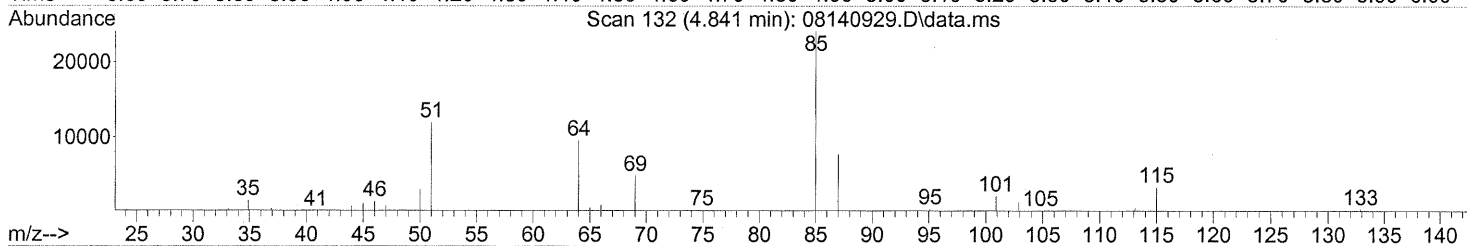
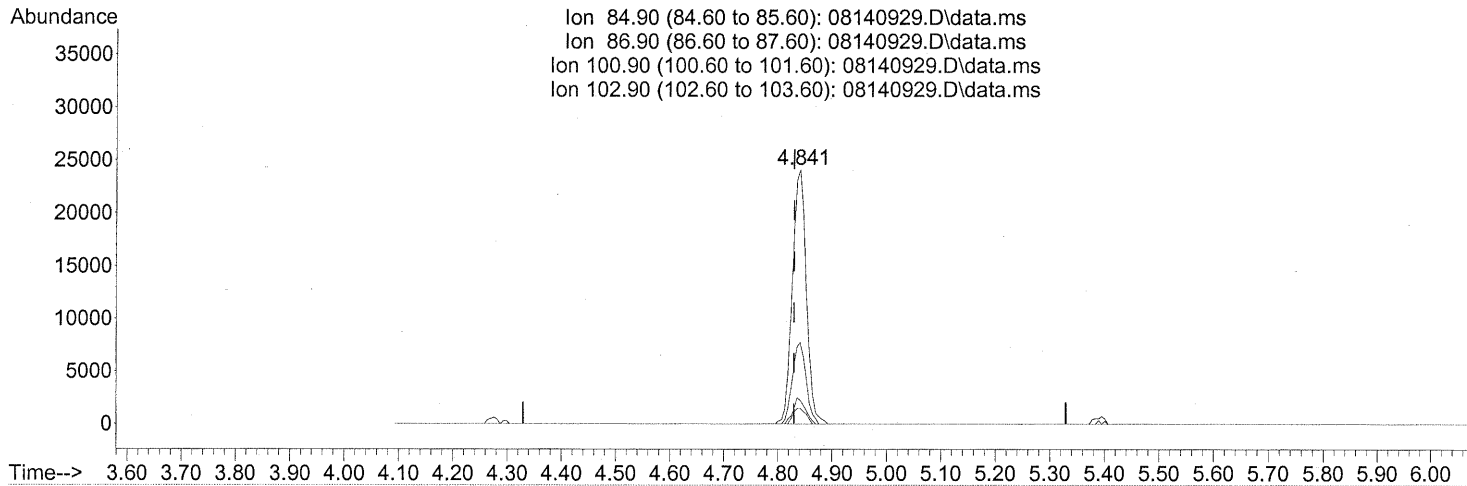
4.670min (+0.006) 1.80ng
 response 24095

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	104.43
41.10	150.20	139.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.841min (+0.012) 1.99ng

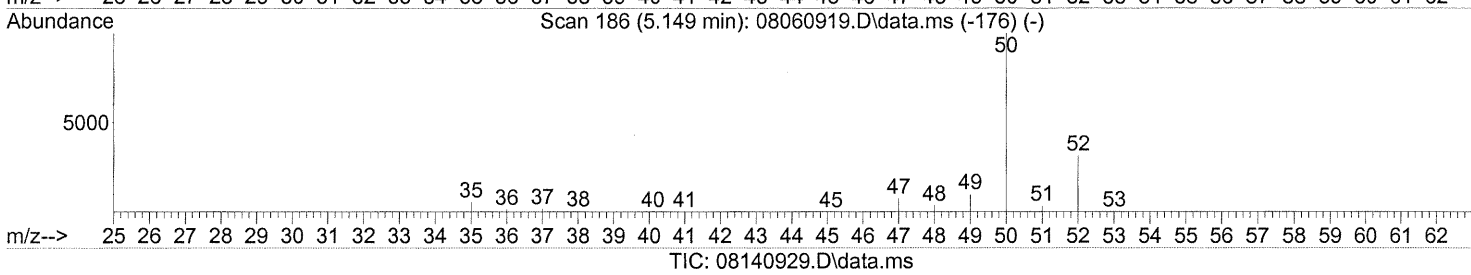
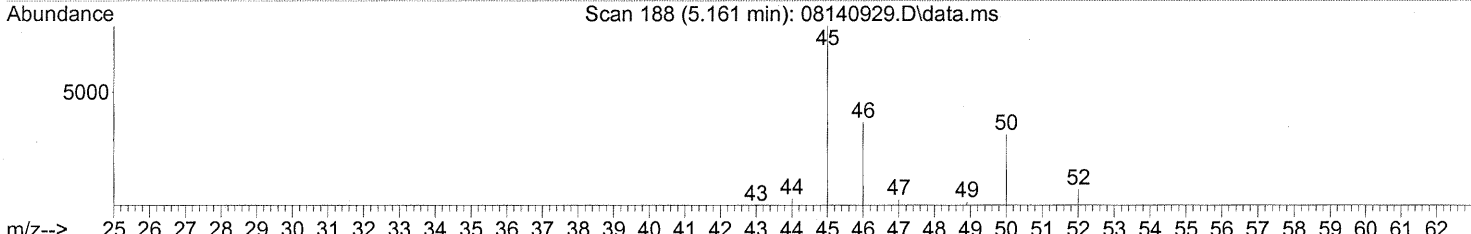
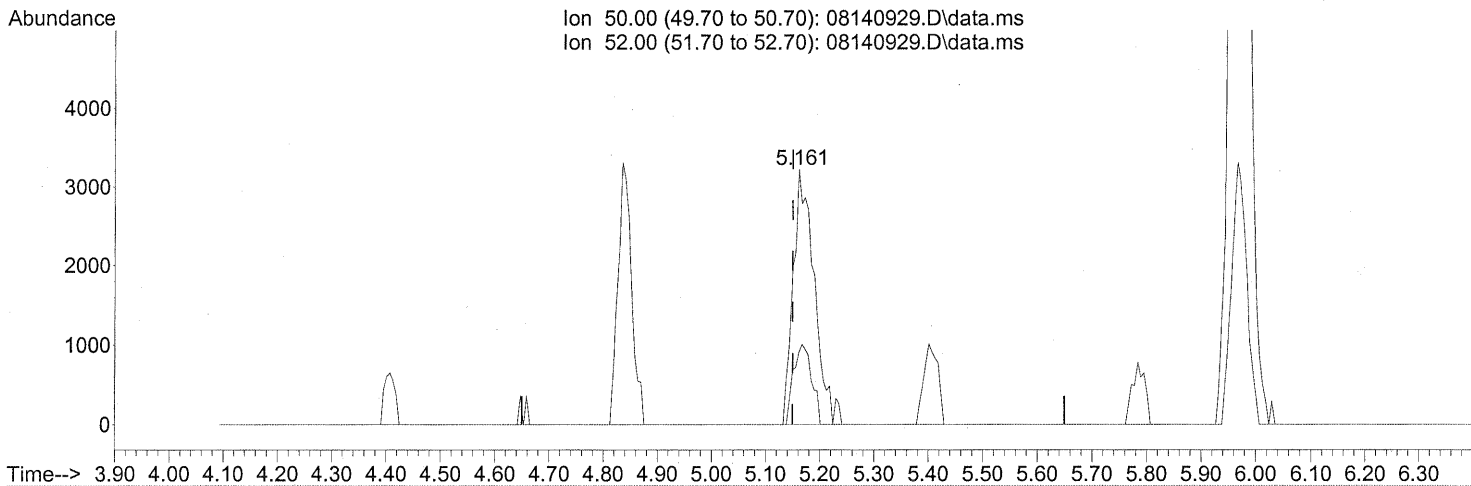
response 43375

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.43
100.90	8.80	8.91
102.90	5.20	5.60

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

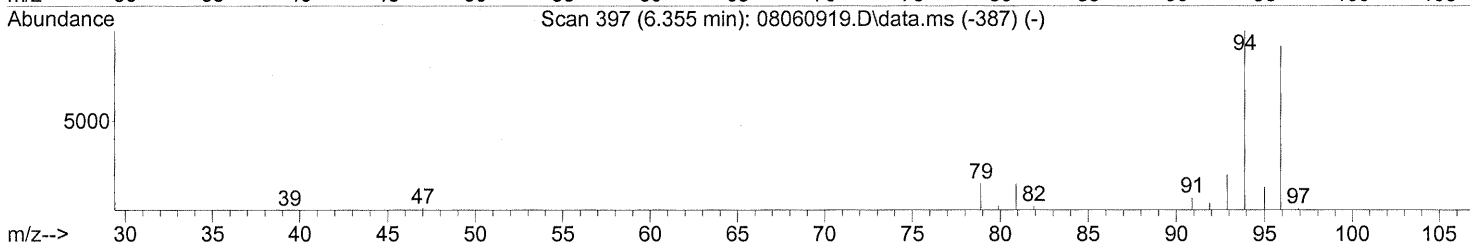
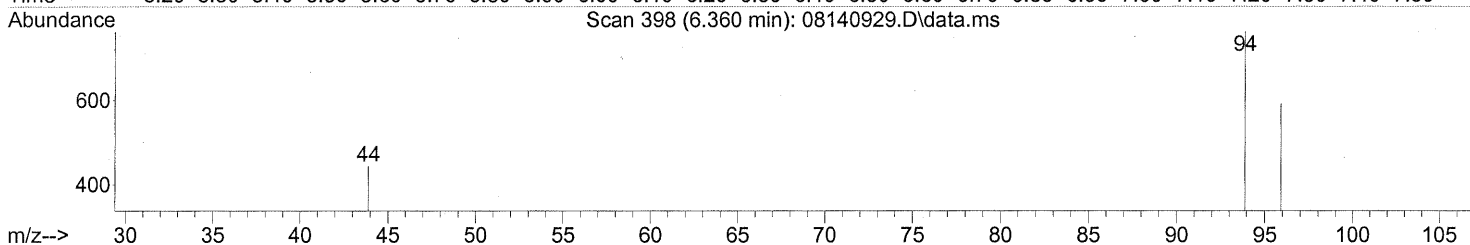
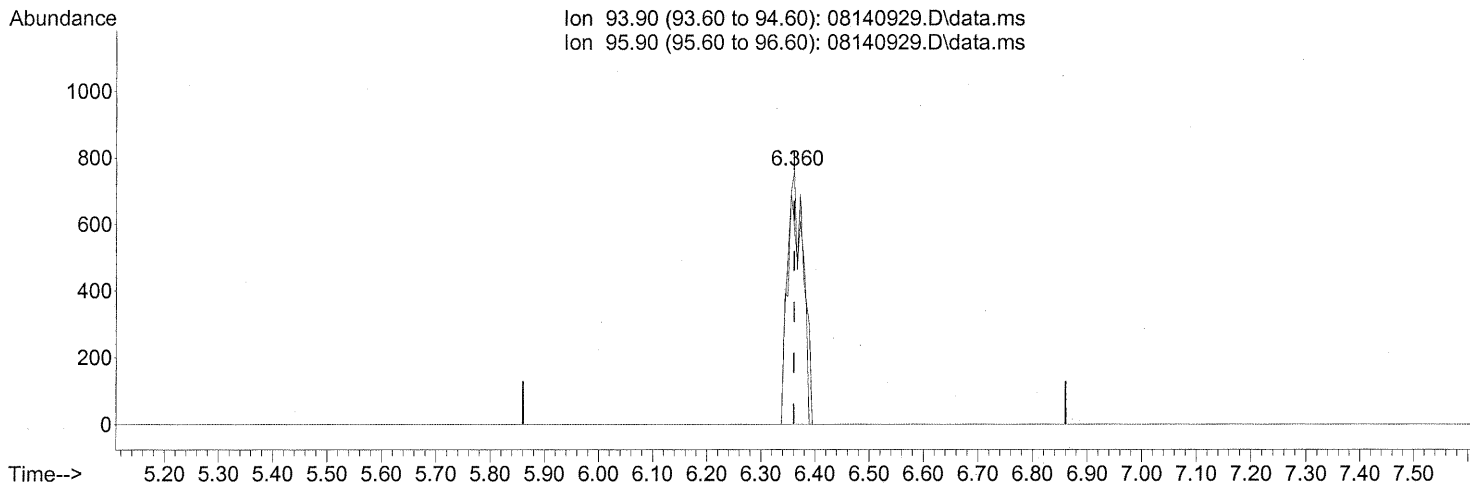
5.161min (+0.011) 0.58ng
 response 8532

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	27.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140929.D\data.ms

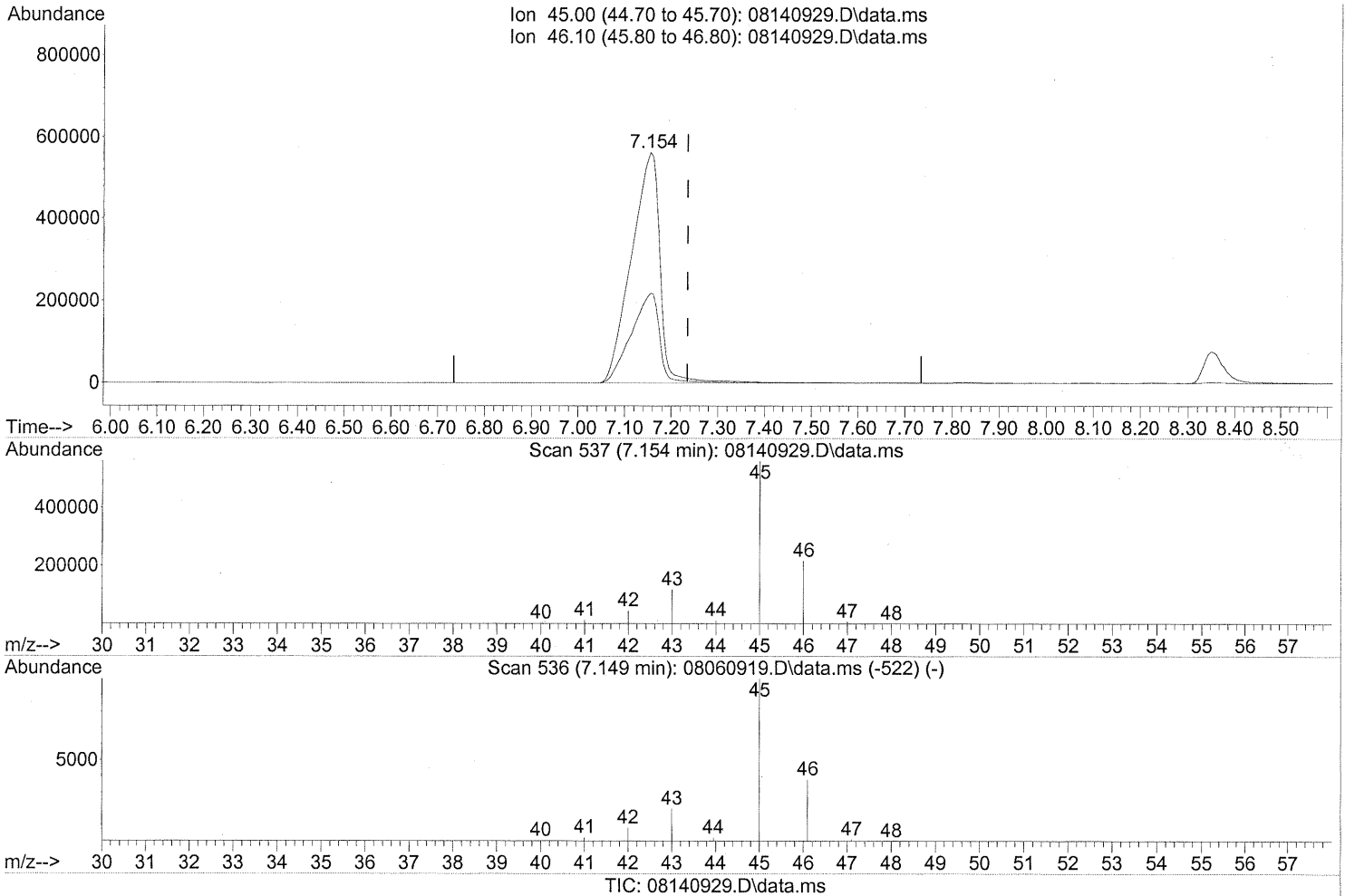
(8) Bromomethane (T)
 6.360min (+0.000) 0.18ng
 response 1556

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	88.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
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 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 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)

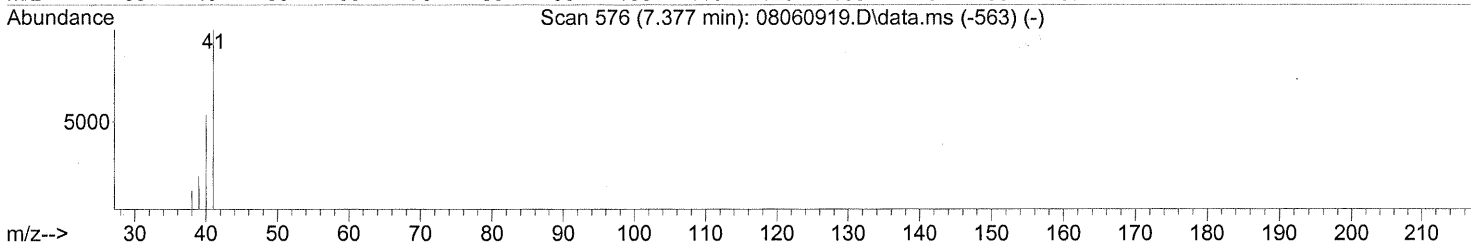
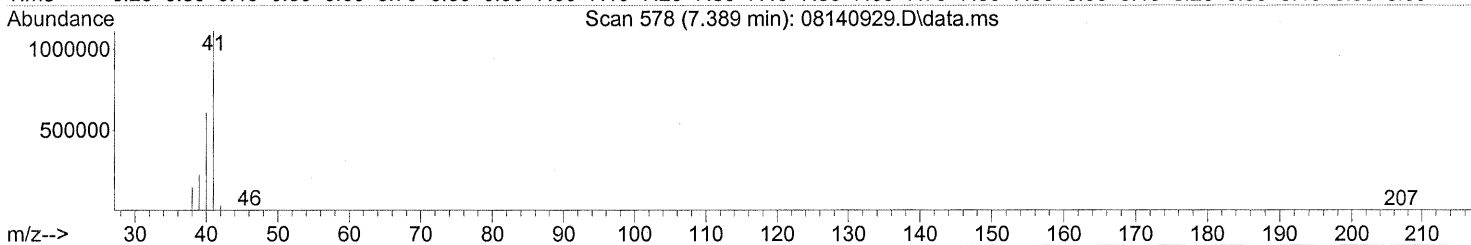
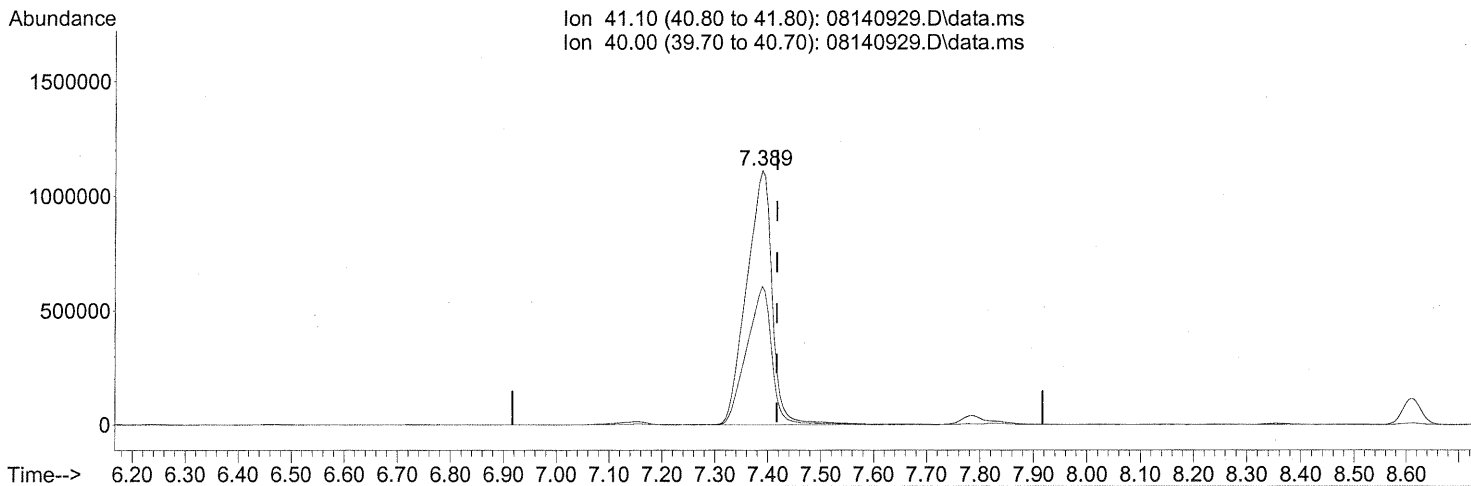
7.154min (-0.080) 283.43ng
 response 2399894

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 20 09:42:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140929.D\data.ms

(11) Acetonitrile (T)

7.389min (-0.029) 151.81ng

E

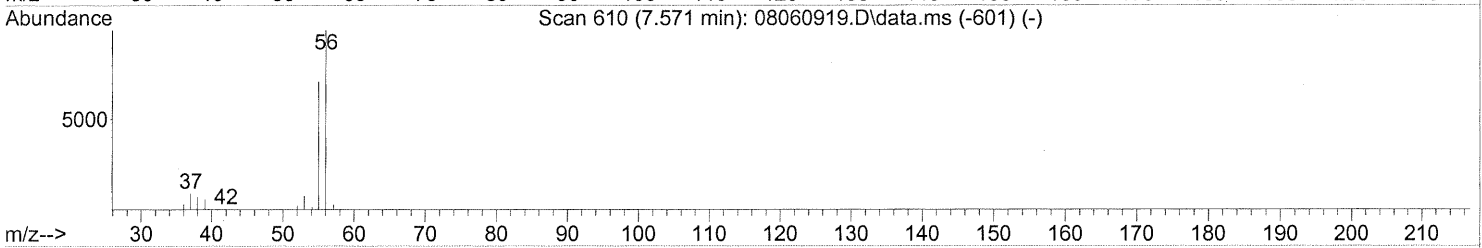
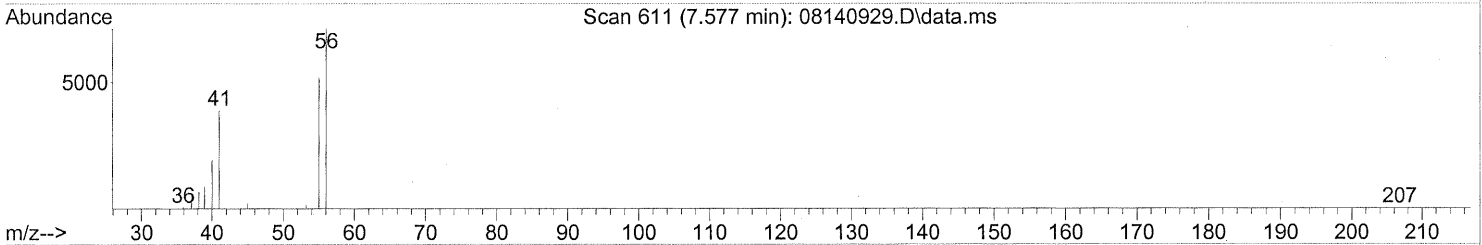
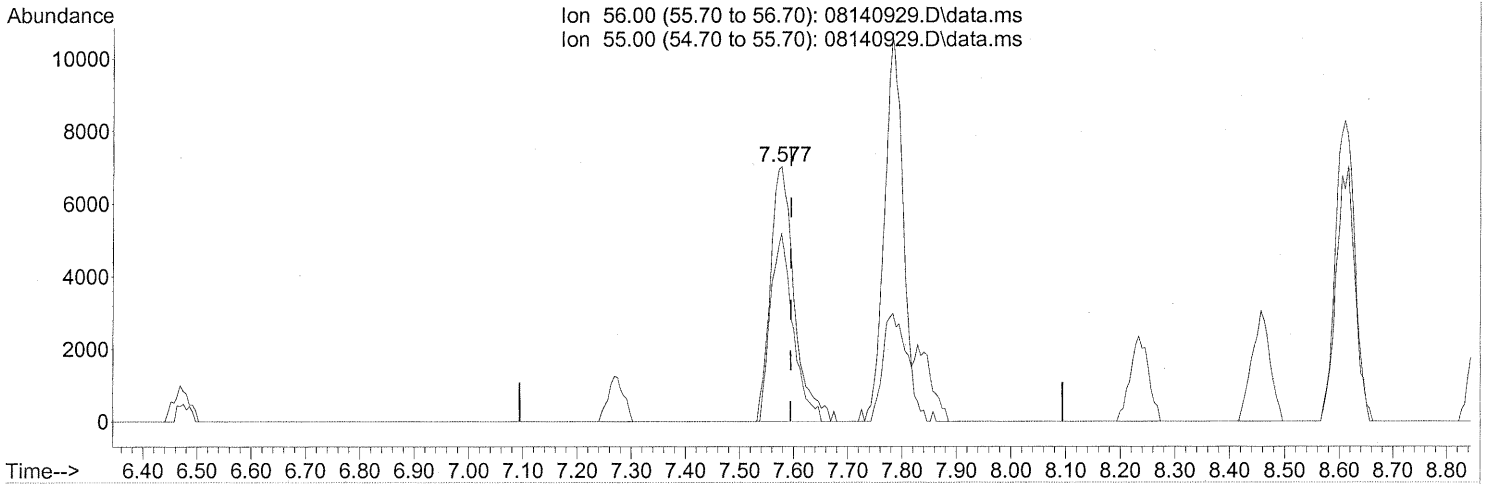
response 3764564

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140929.D\data.ms

(12) Acrolein (T)

7.577min (-0.017) 3.36ng

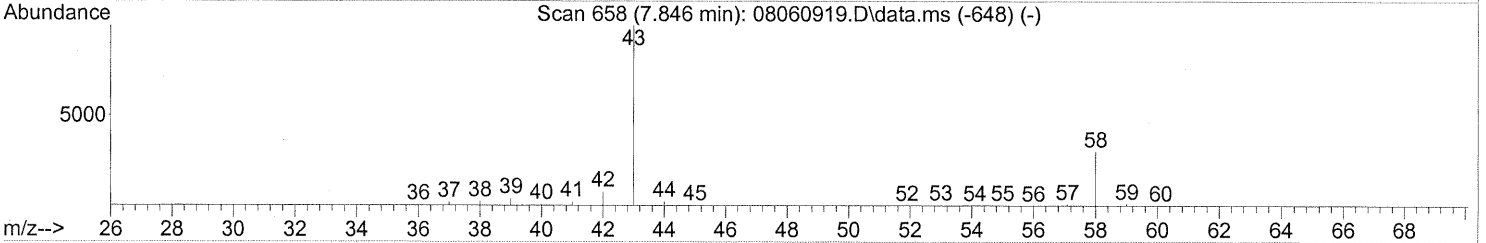
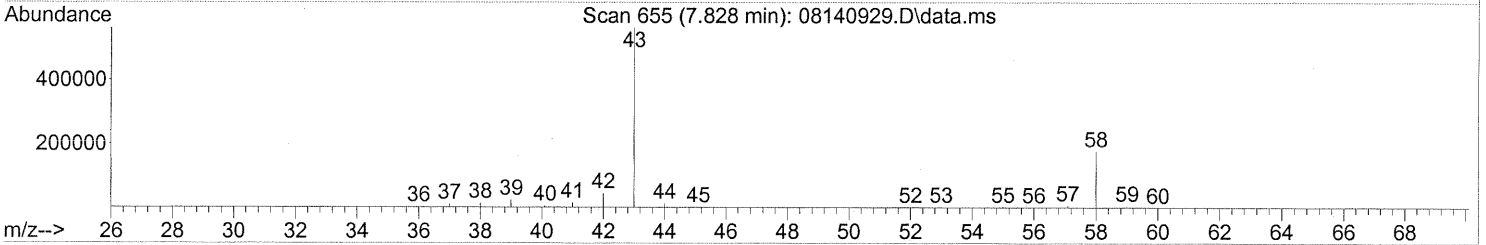
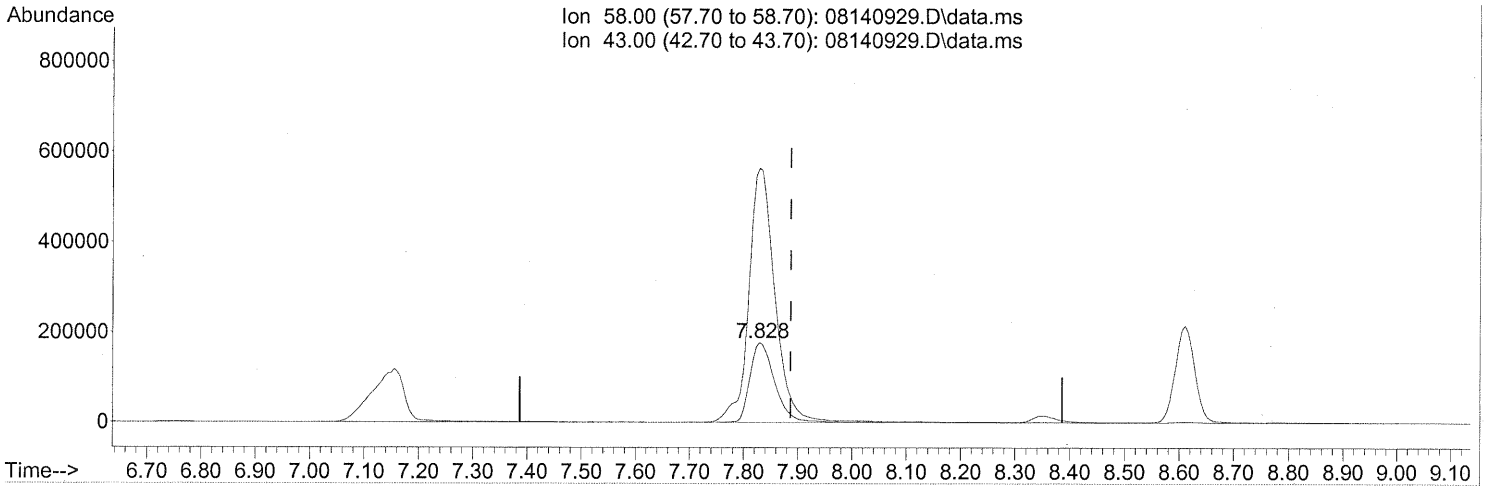
response 21687

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	69.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140929.D
Acq On : 15 Aug 2009 1:38
Operator : WA
Sample : P0902721-008 (1000mL)
Misc : Env. Health & Engineering 99953
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08140929.D\data.ms

(13) Acetone (T)

7.828min (-0.058) 70.69ng

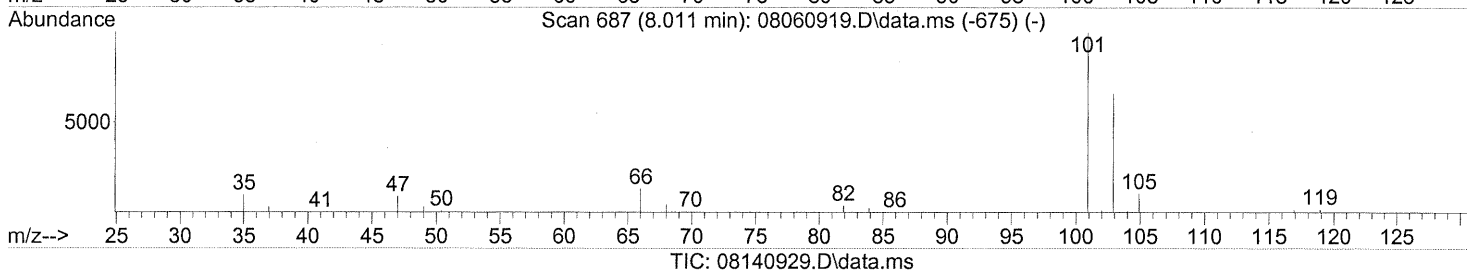
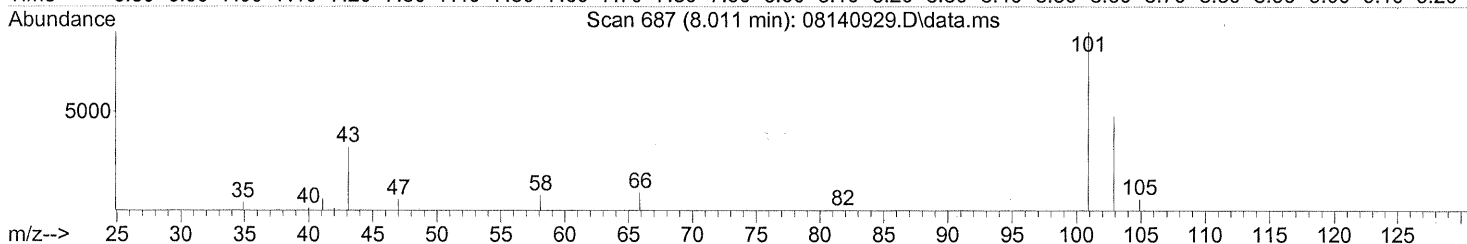
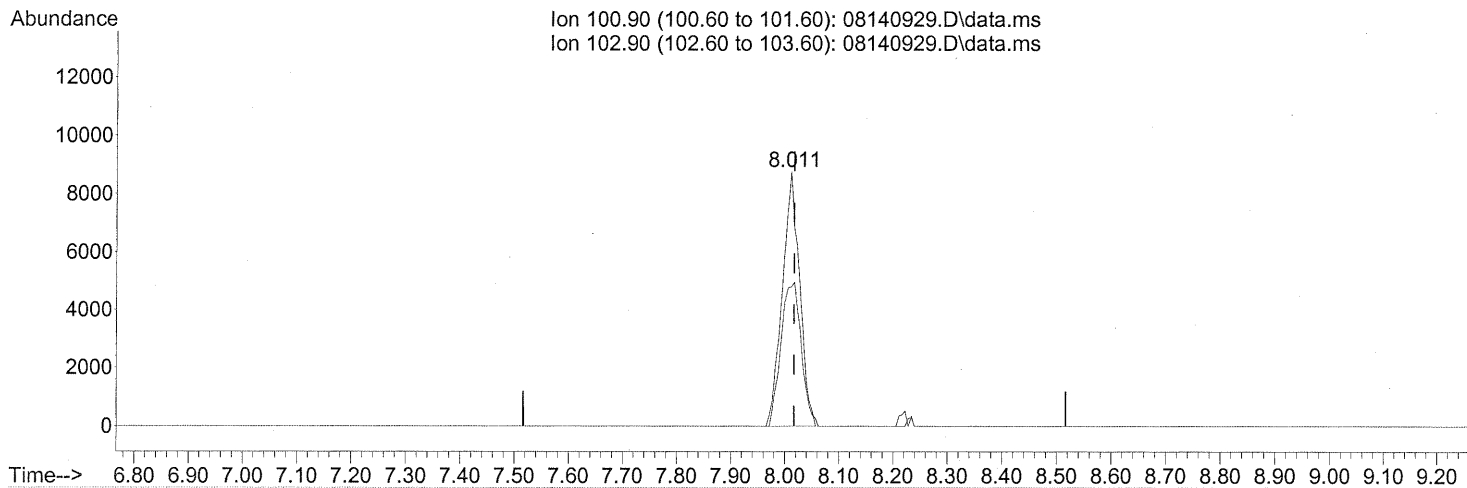
response 564771

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	338.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.011min (-0.006) 0.98ng

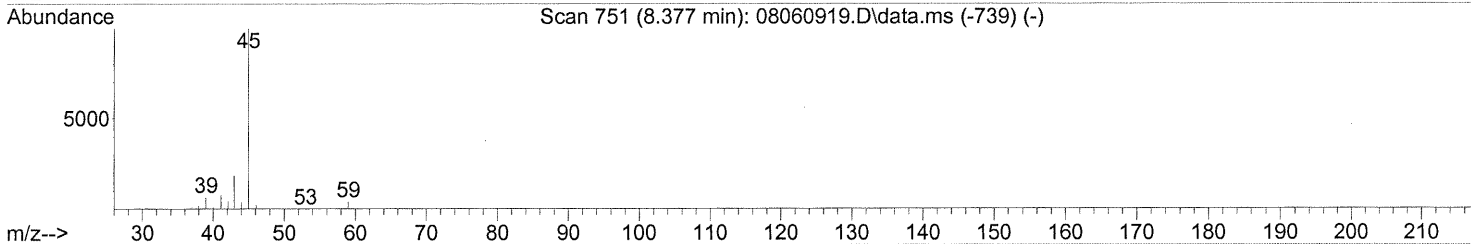
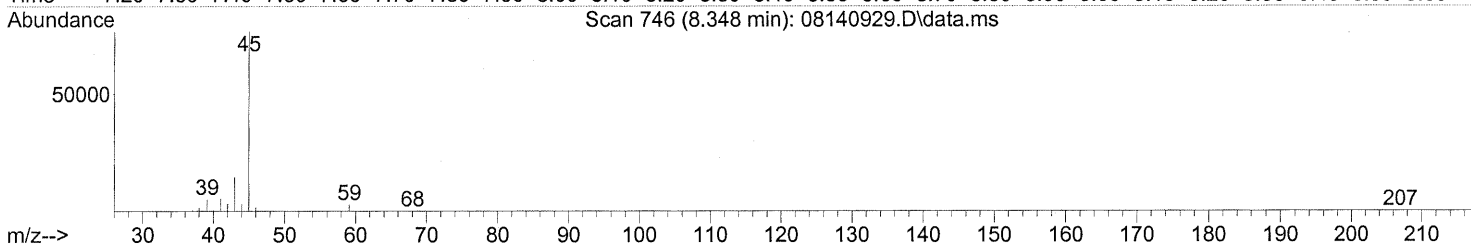
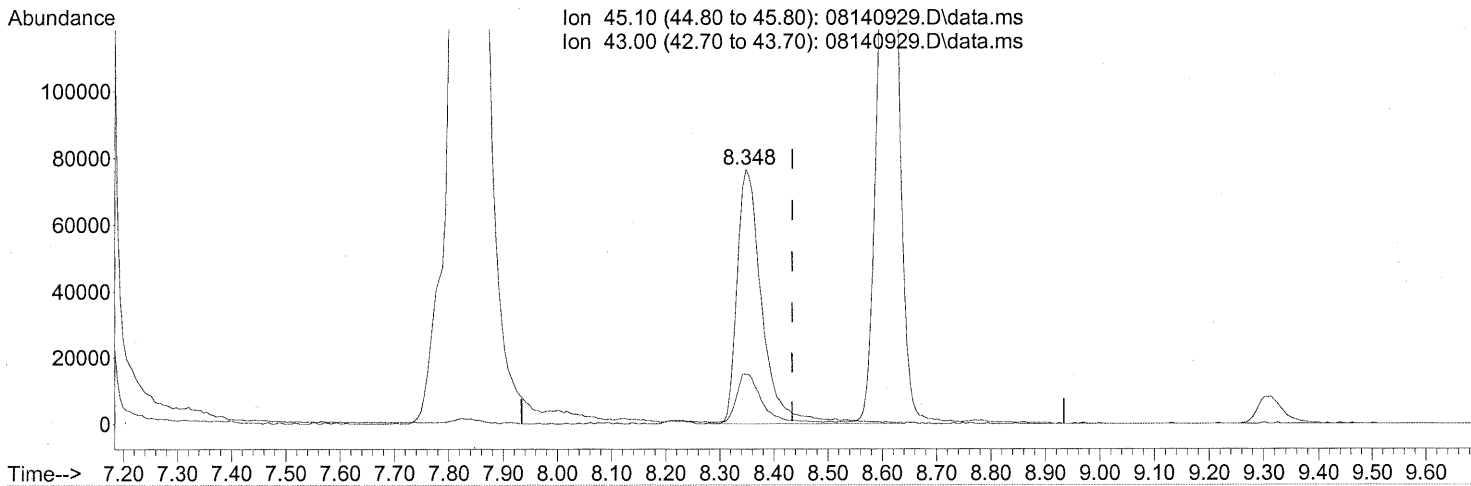
response 19359

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	66.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140929.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.348min (-0.086) 7.85ng

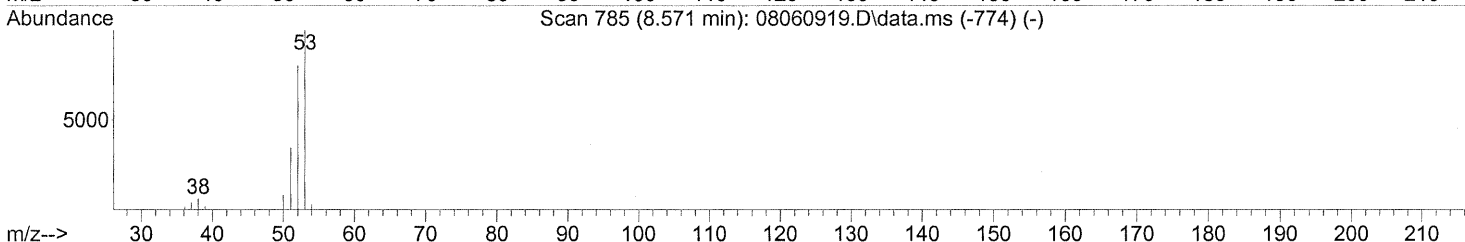
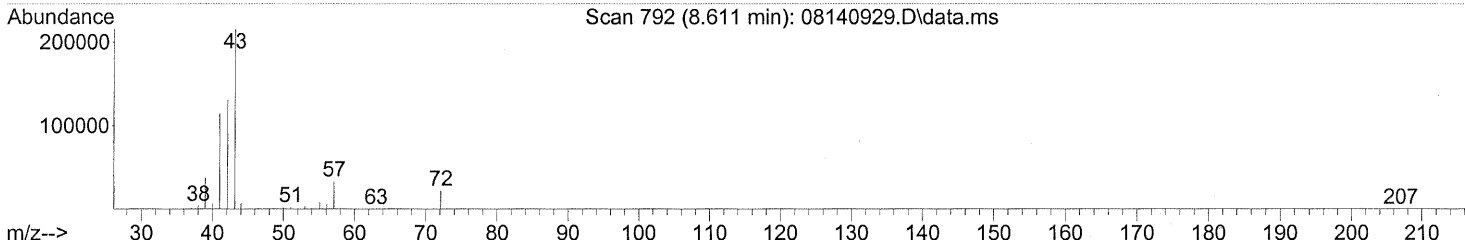
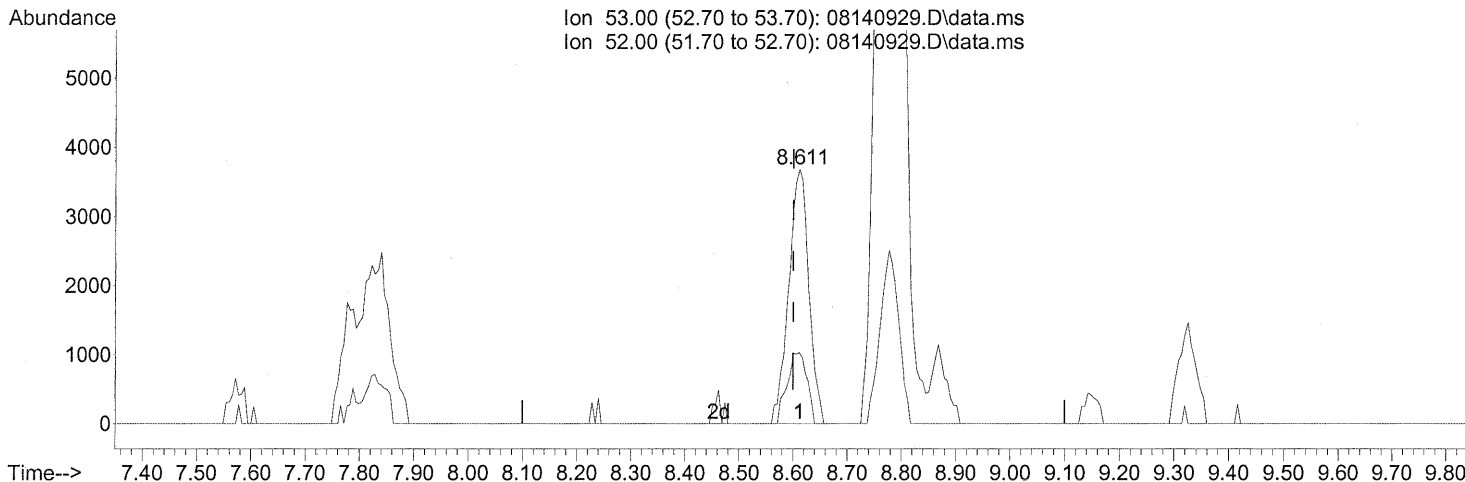
response 246443

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140929.D
Acq On : 15 Aug 2009 1:38
Operator : WA
Sample : P0902721-008 (1000mL)
Misc : Env. Health & Engineering 99953
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)
8.611min (+0.011) 0.66ng
response 9560

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	27.57#
0.00	0.00	0.00
0.00	0.00	0.00

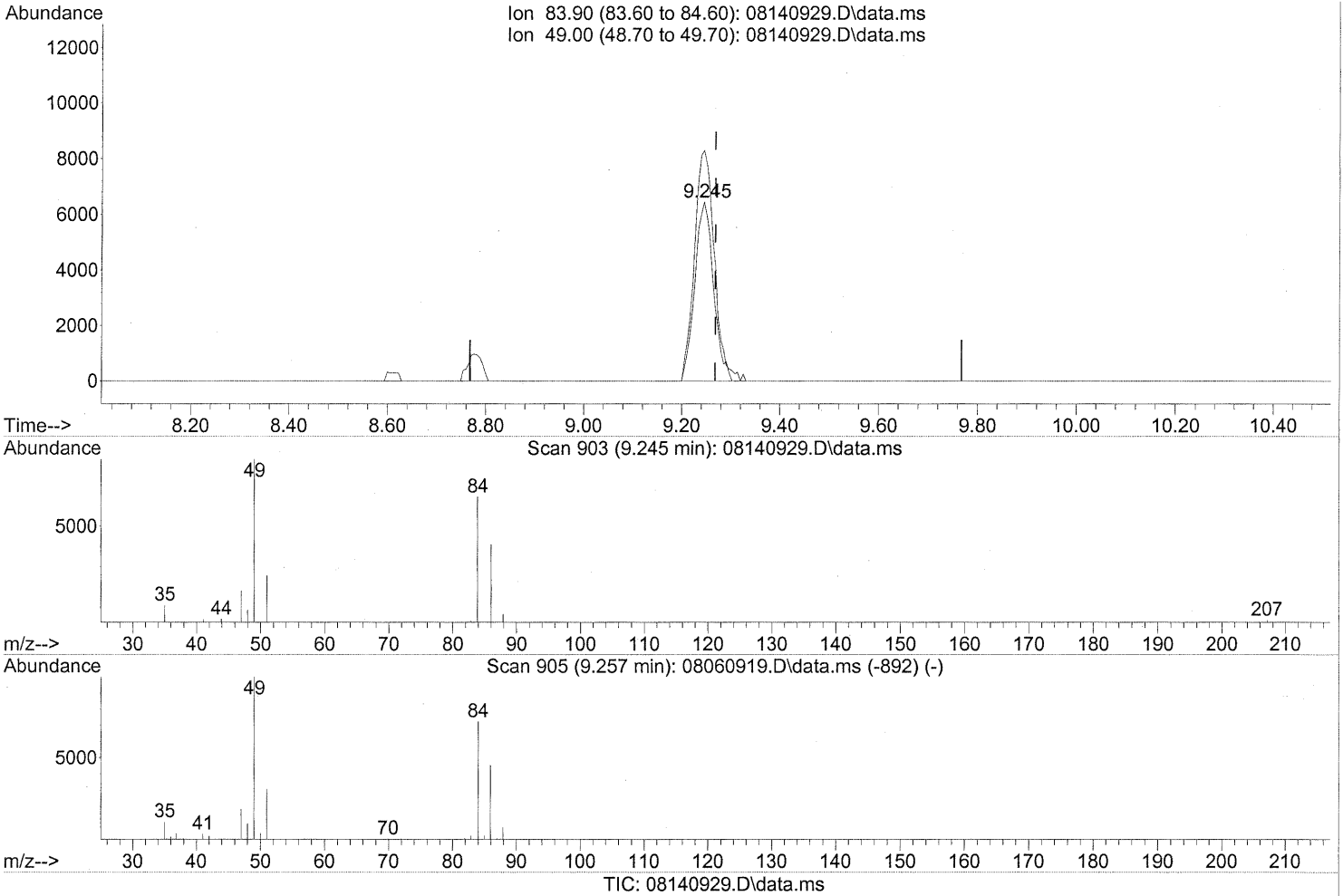
FP in 8/20/09

com 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.245min (-0.023) 1.59ng

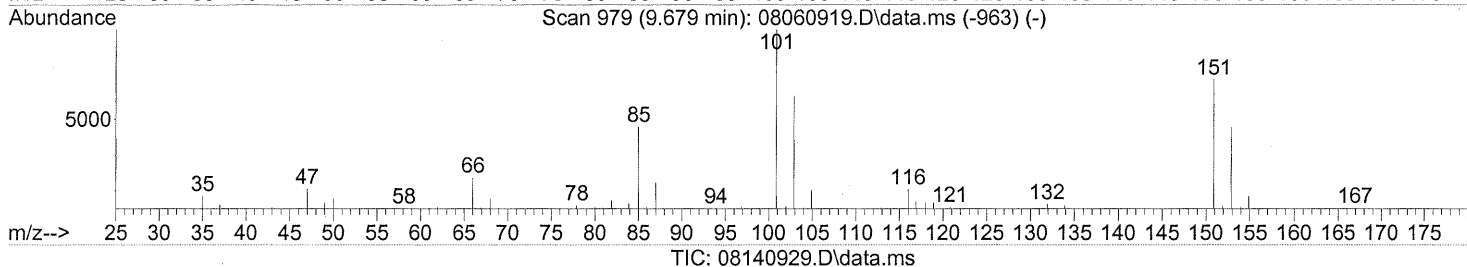
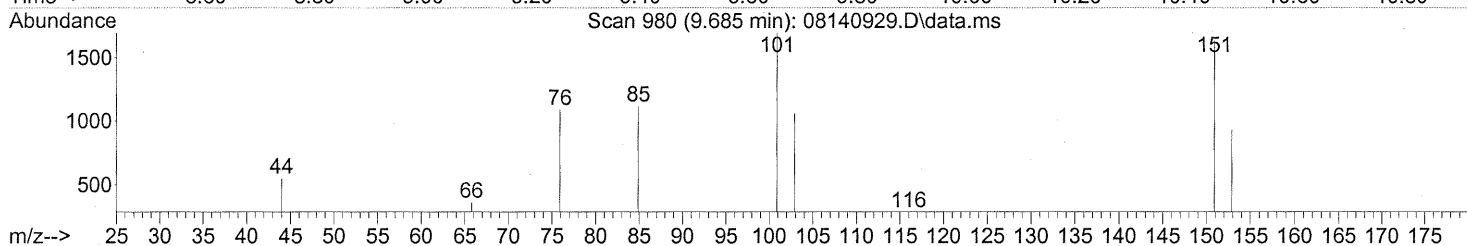
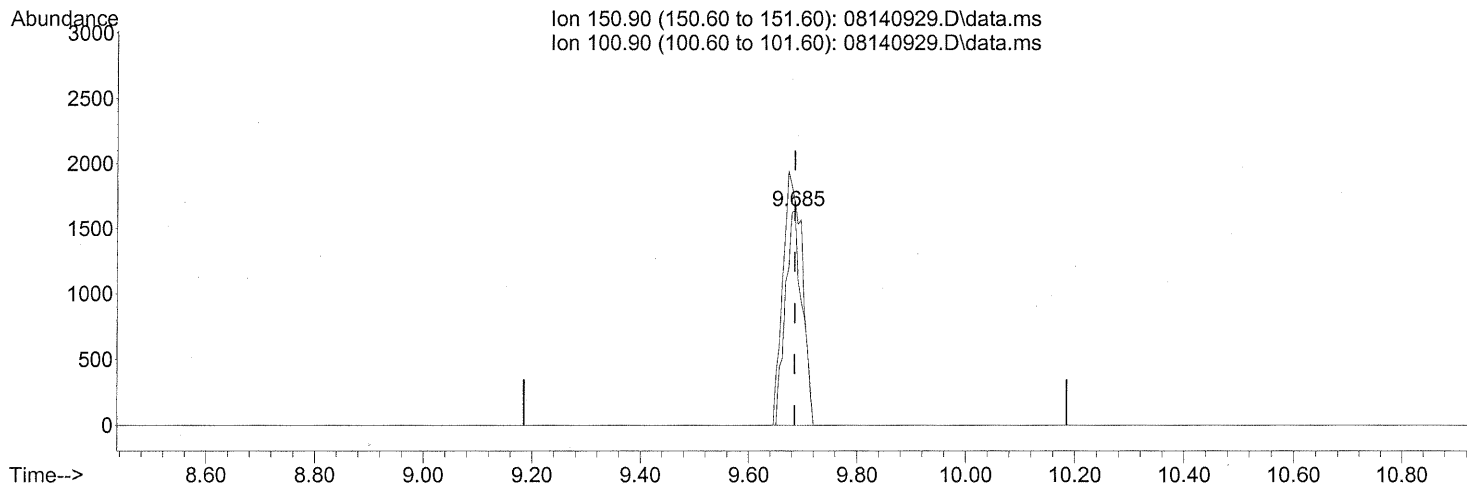
response 17035

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	137.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.685min (+0.000) 0.49ng

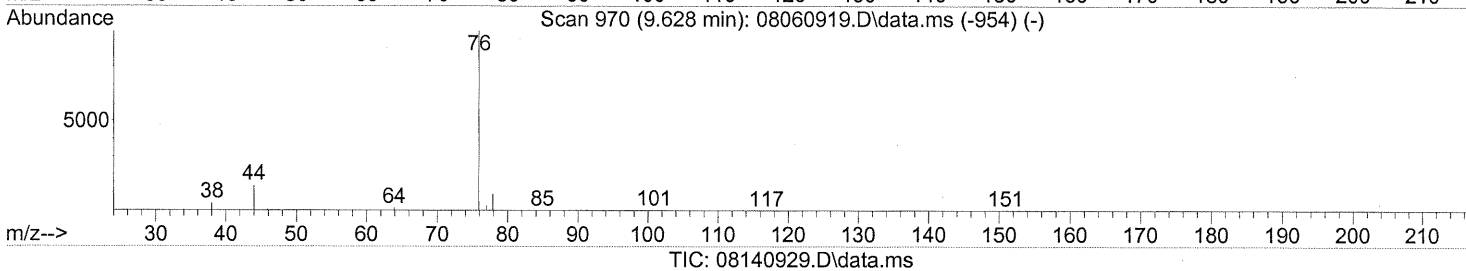
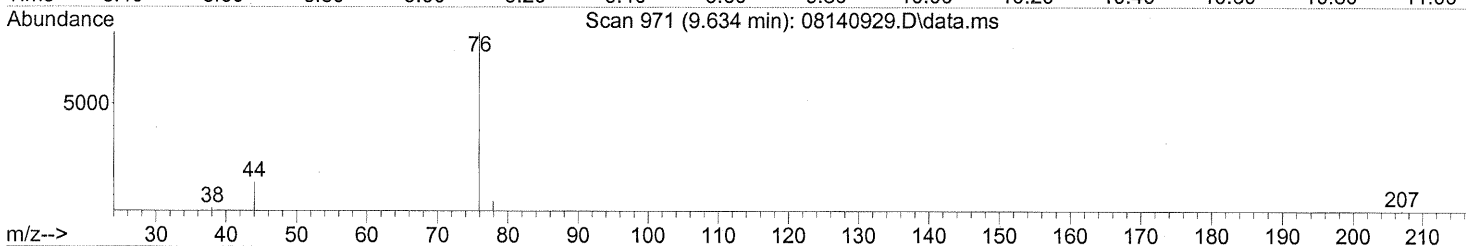
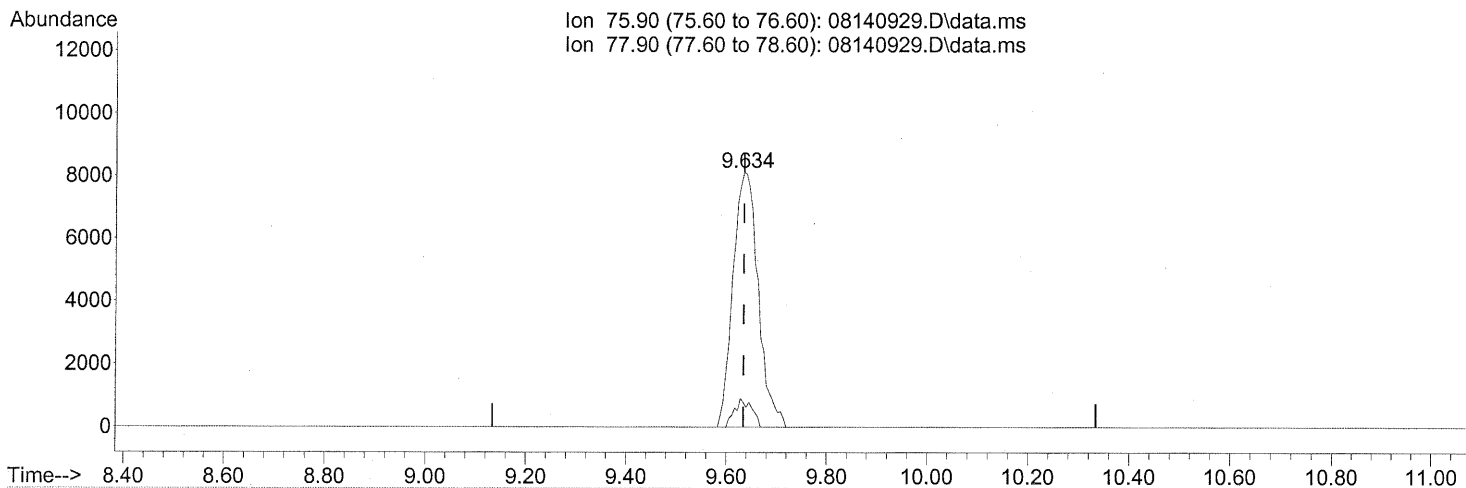
response 3528

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	136.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.634min (+0.000) 0.74ng

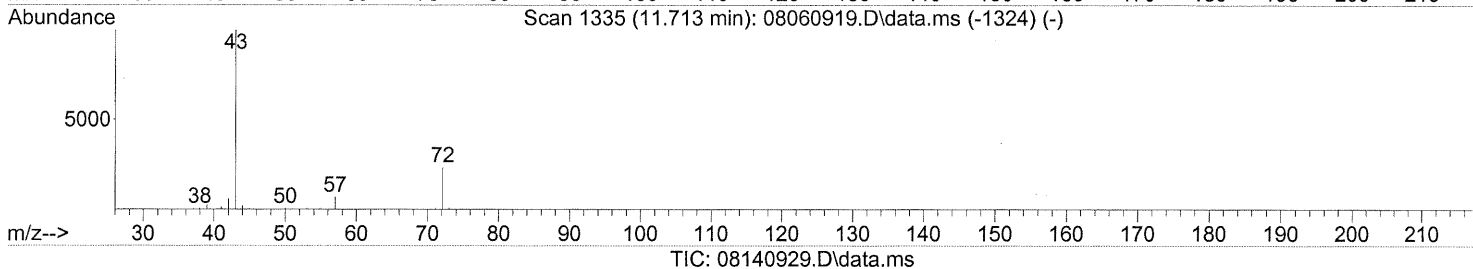
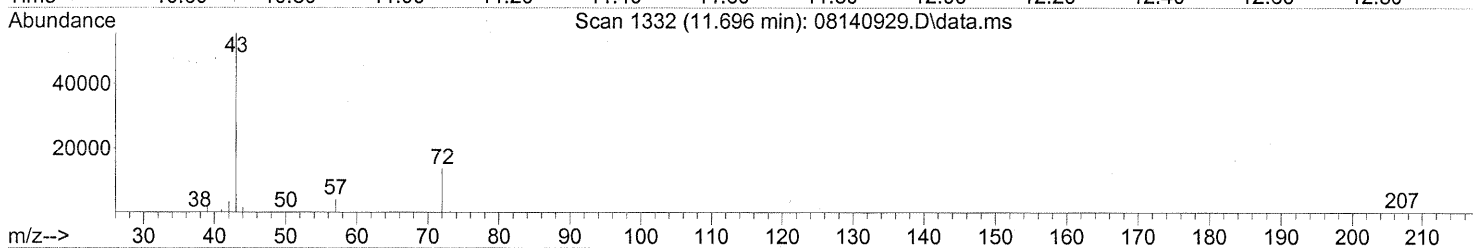
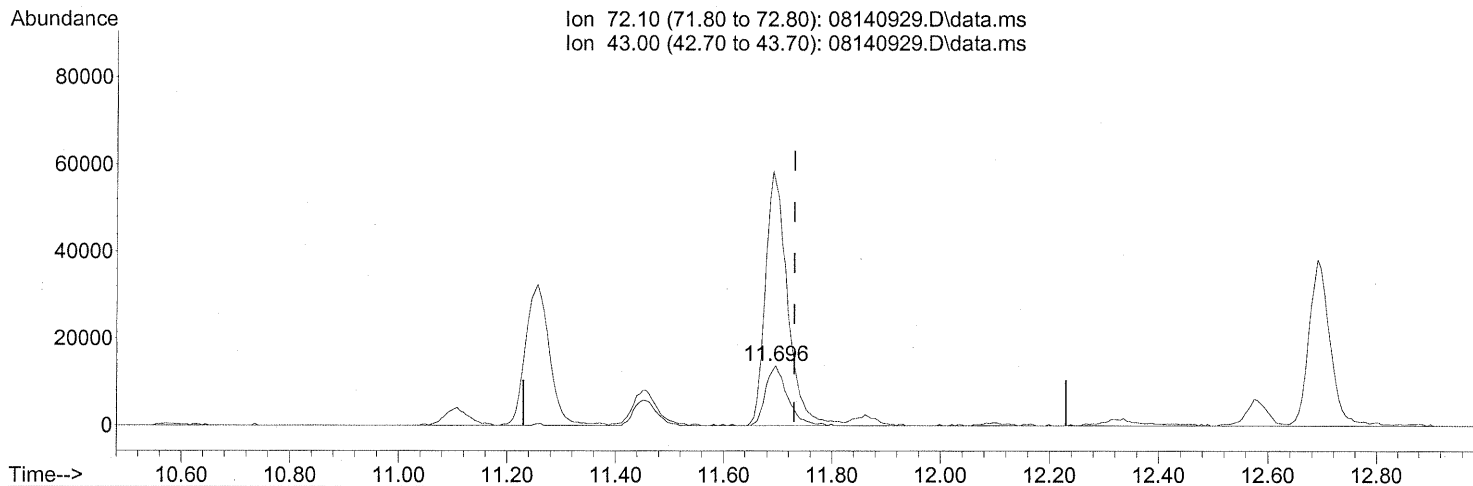
response 28157

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	7.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.696min (-0.034) 5.33ng

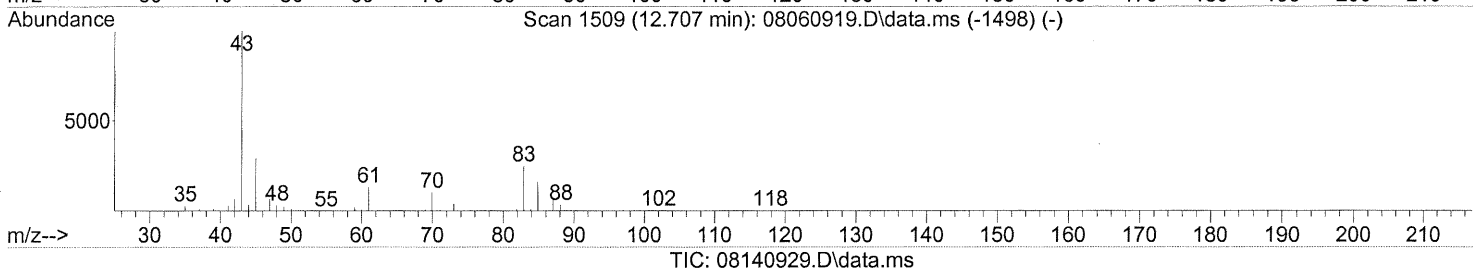
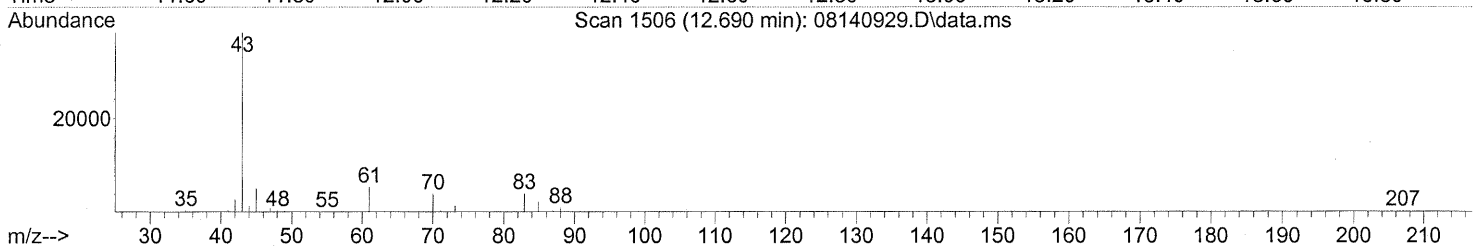
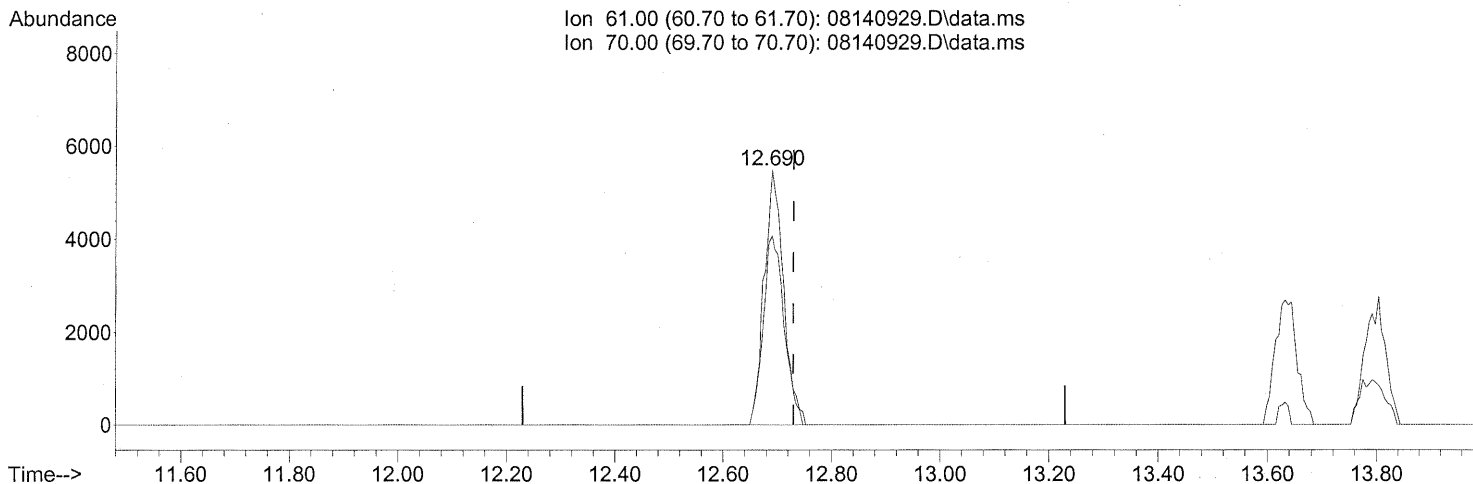
response 38458

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	433.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.690min (-0.040) 3.65ng

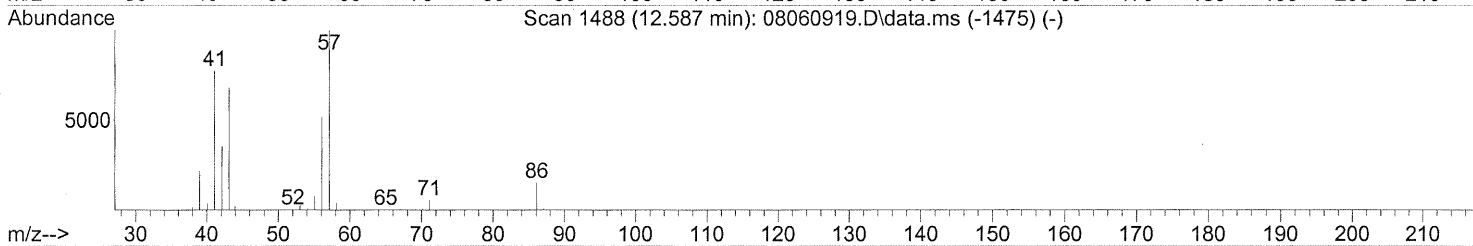
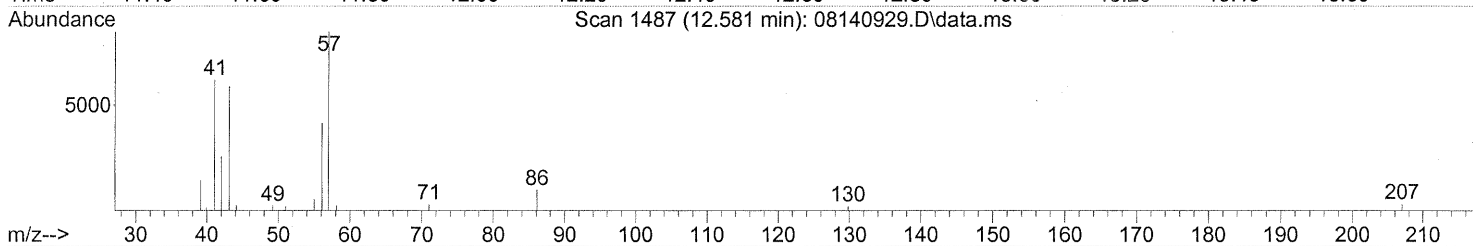
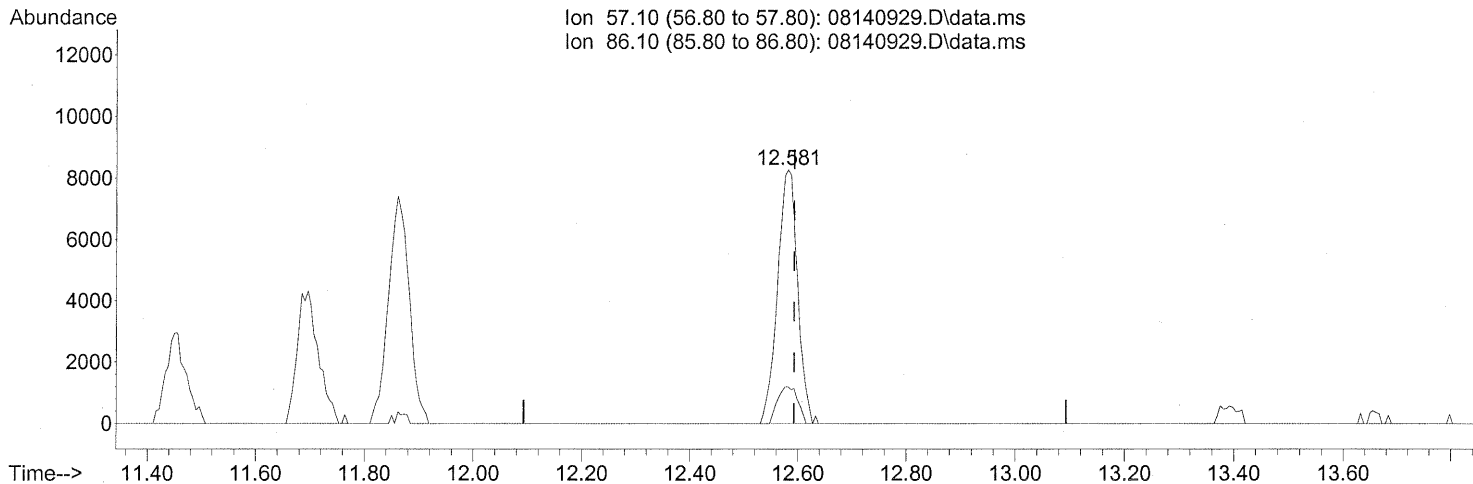
response 13703

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	79.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140929.D\data.ms

(31) n-Hexane (T)

12.581min (-0.011) 1.11ng

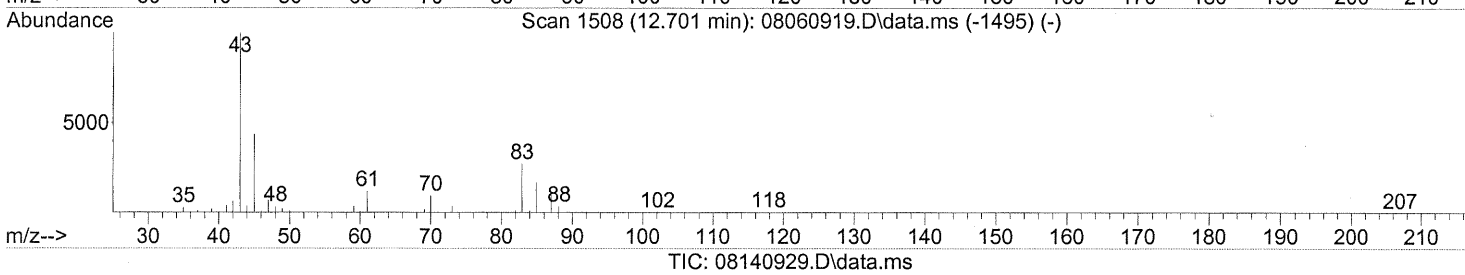
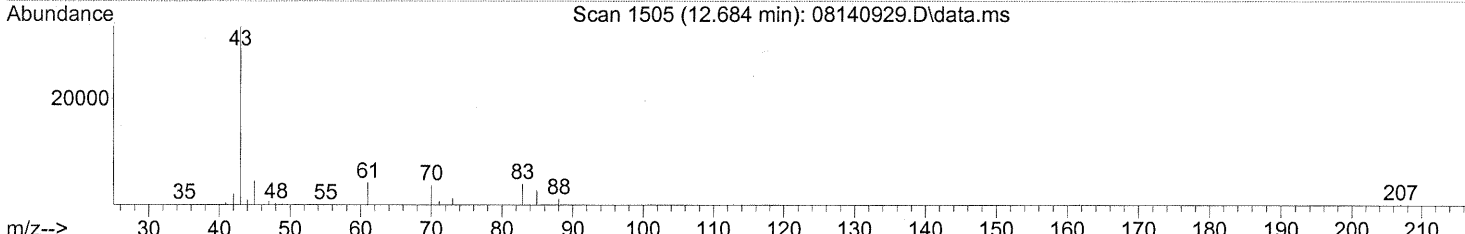
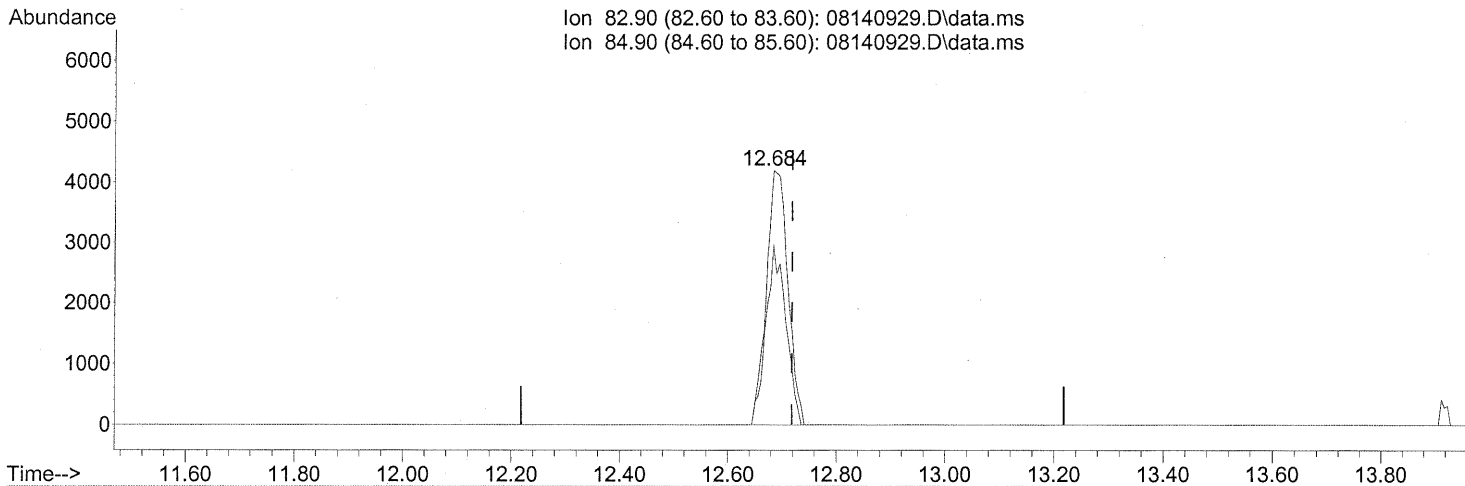
response 21290

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	14.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



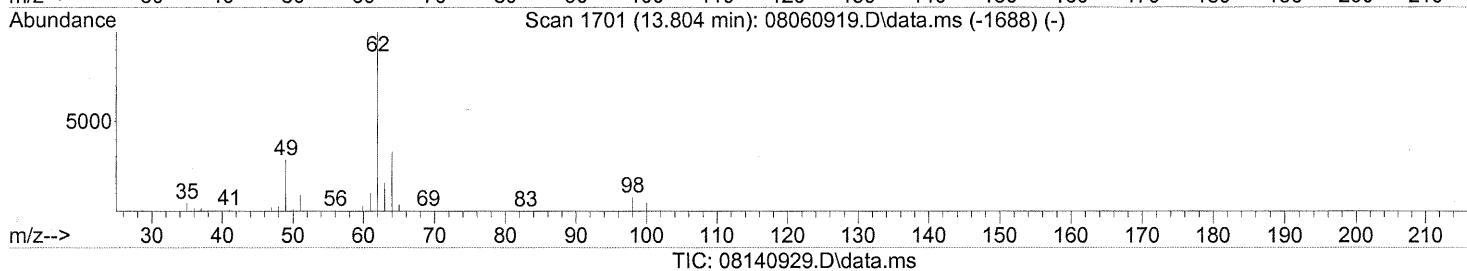
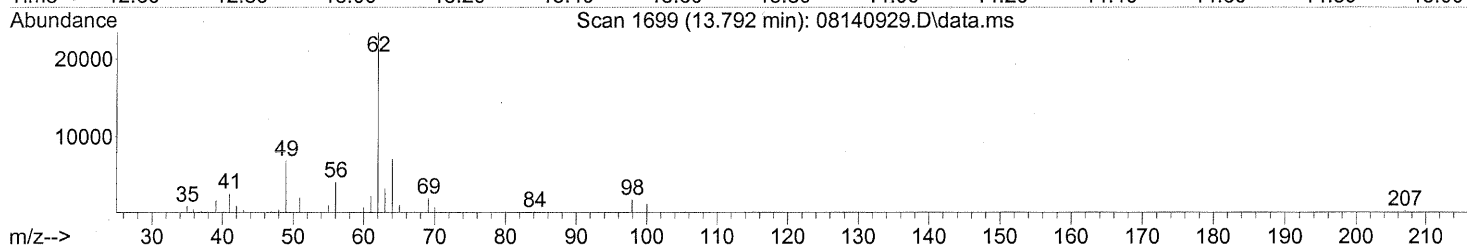
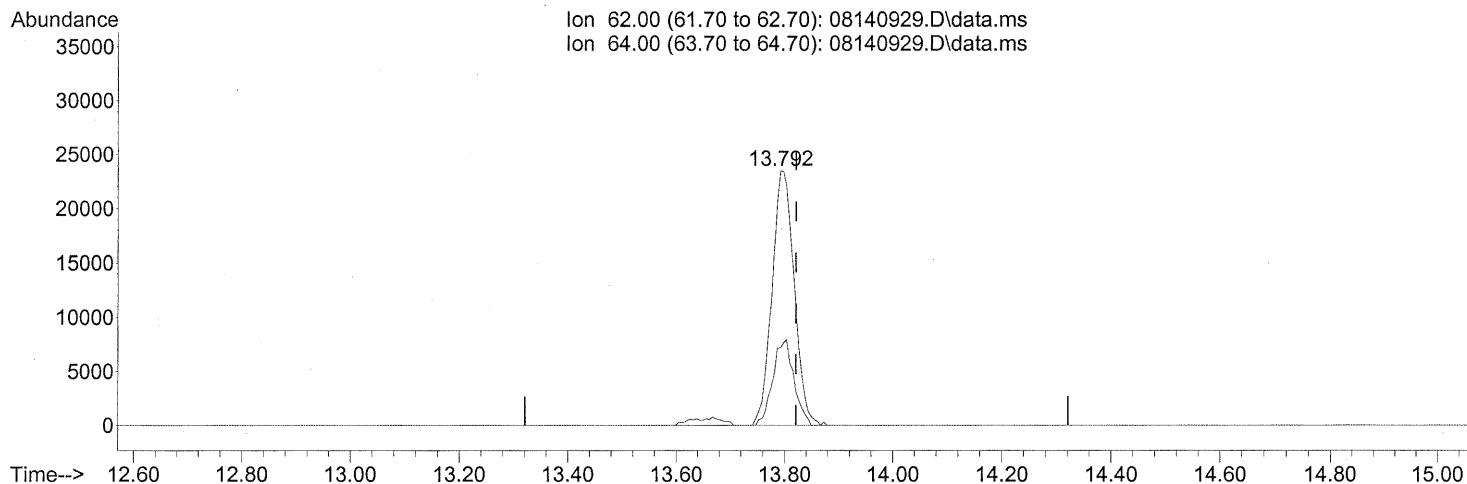
(32) Chloroform (T)
 12.684min (-0.034) 0.69ng
 response 11661

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	65.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.028) 4.32ng

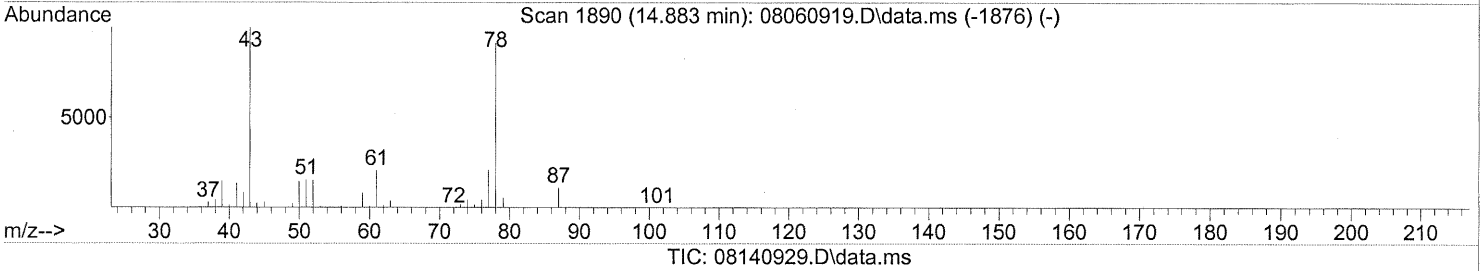
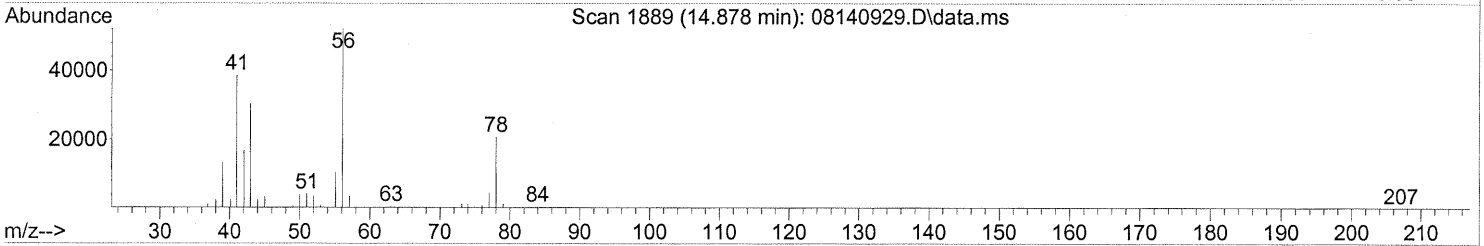
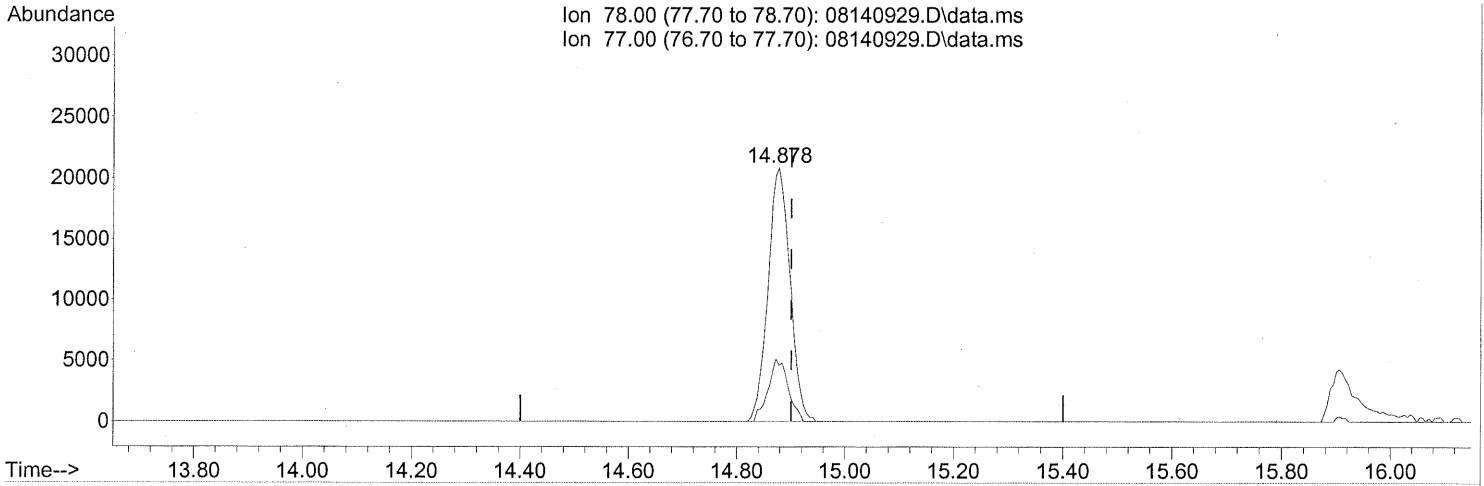
response 66811

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	32.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140929.D
Acq On : 15 Aug 2009 1:38
Operator : WA
Sample : P0902721-008 (1000mL)
Misc : Env. Health & Engineering 99953
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



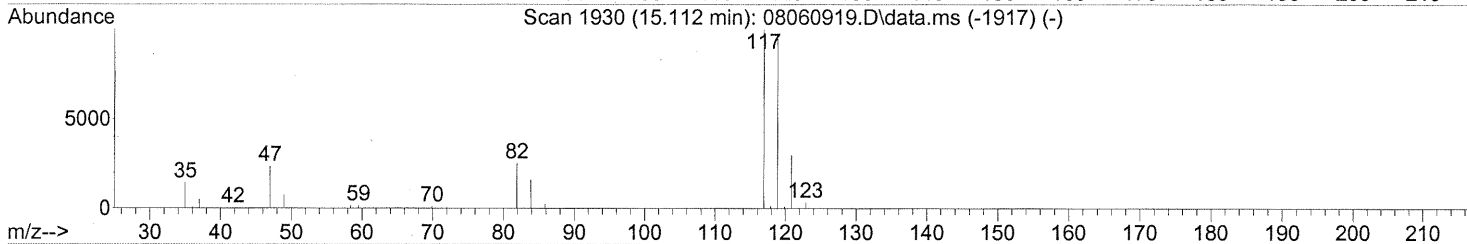
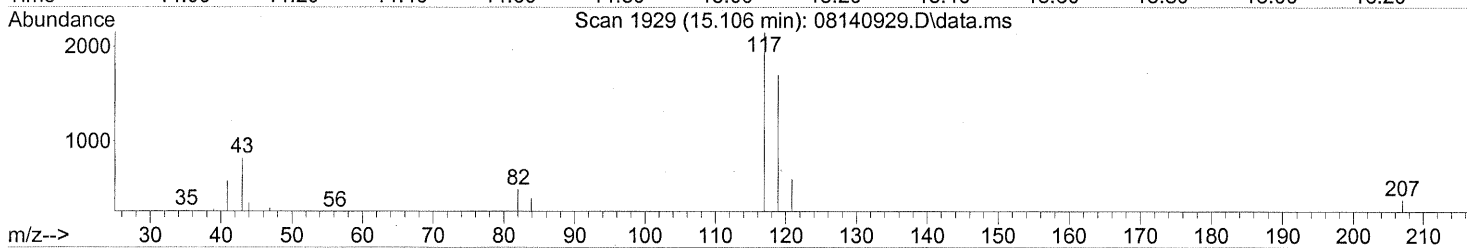
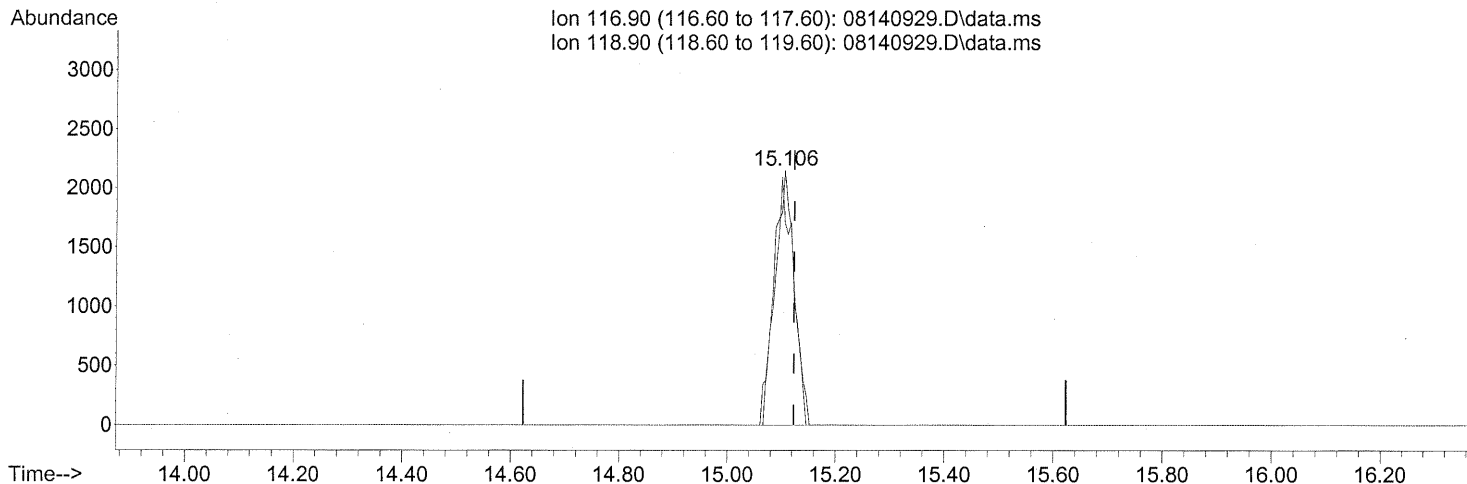
(41) Benzene (T)
14.878min (-0.023) 1.38ng
response 58943

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	22.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140929.D\data.ms

(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.40ng

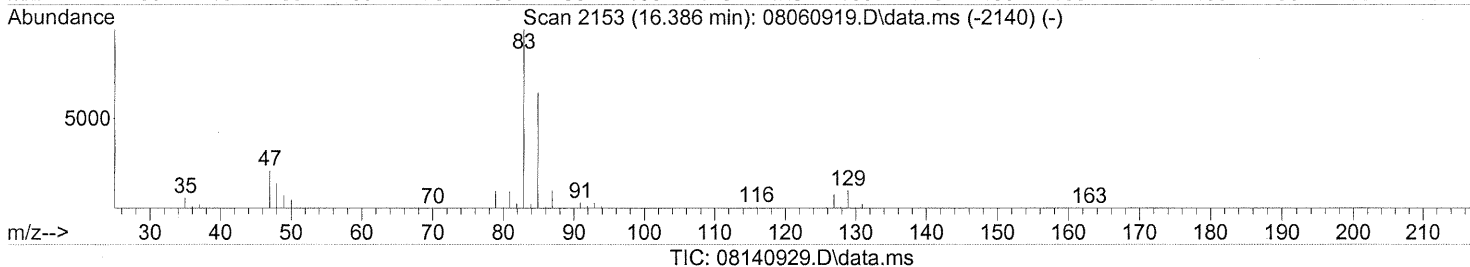
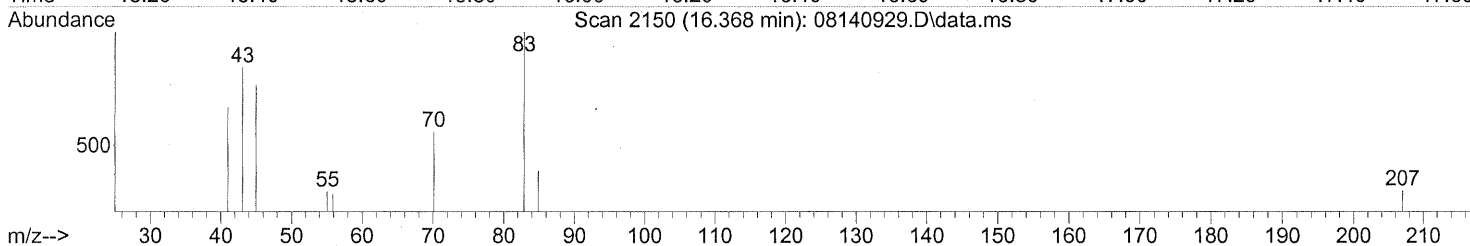
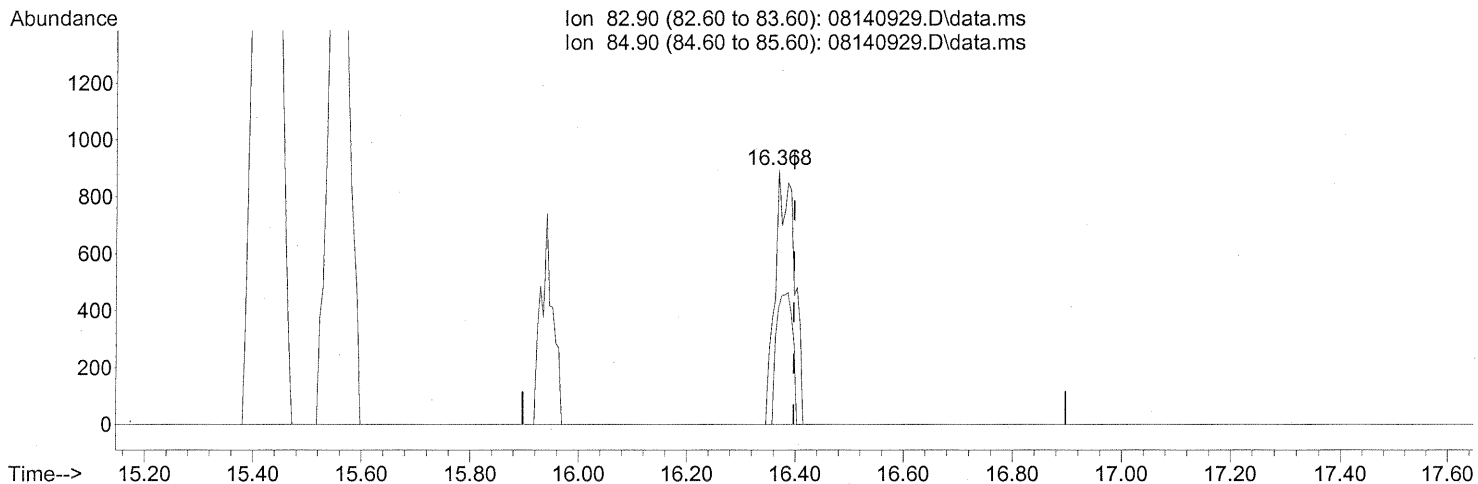
response 5494

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	97.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.368min (-0.028) 0.16ng

response 2184

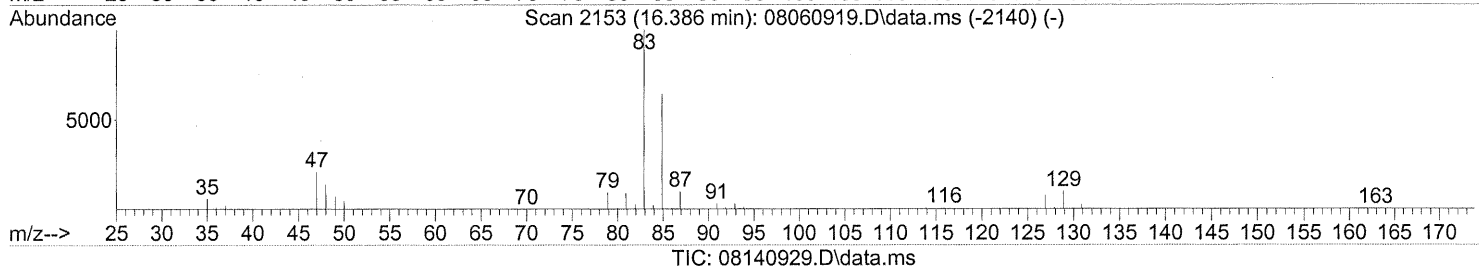
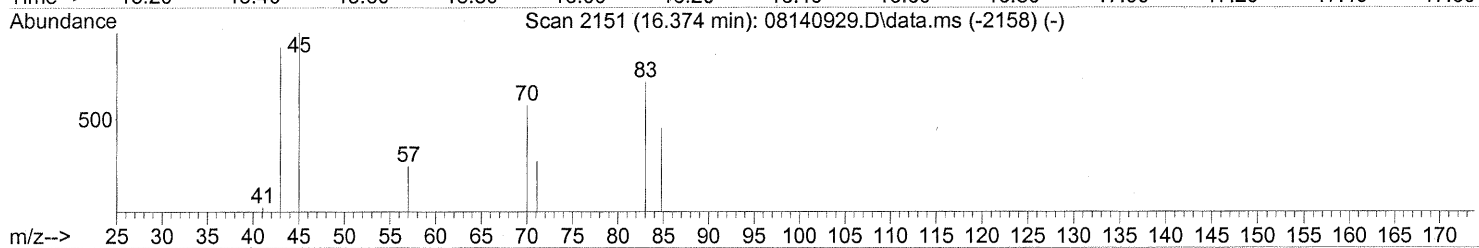
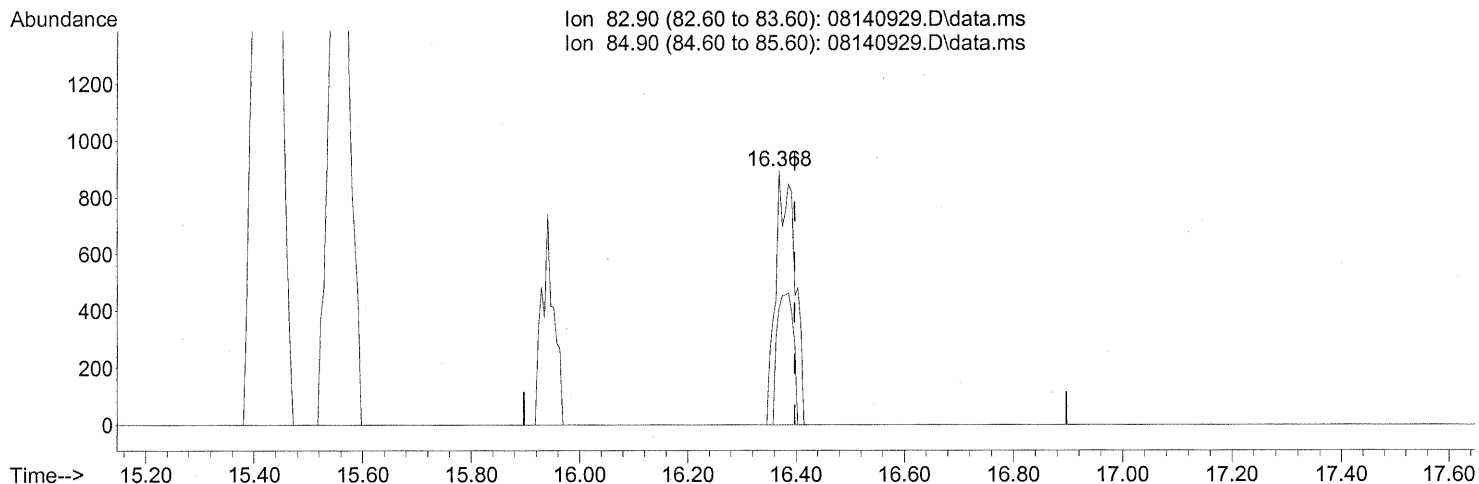
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	43.41
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.368min (-0.028) 0.16ng

response 2184

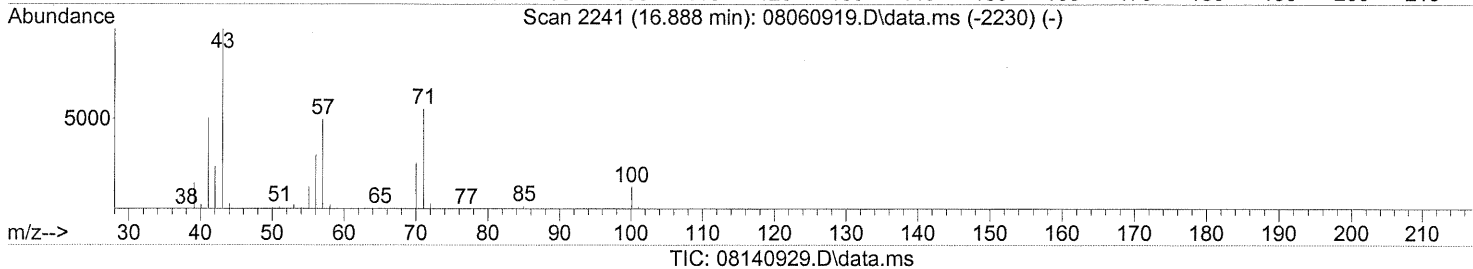
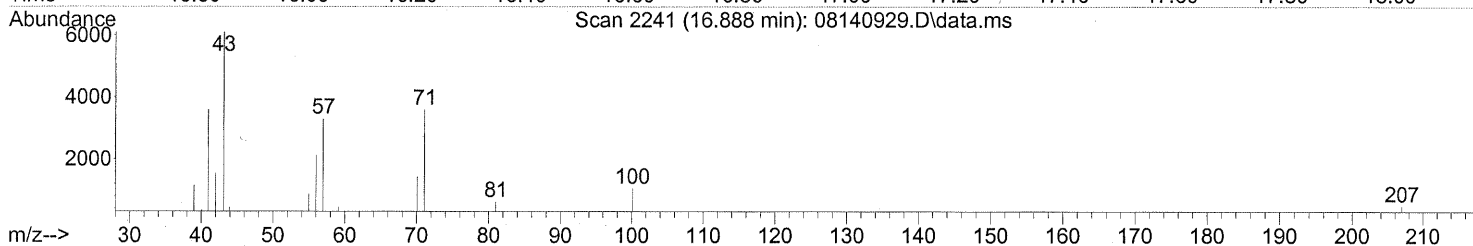
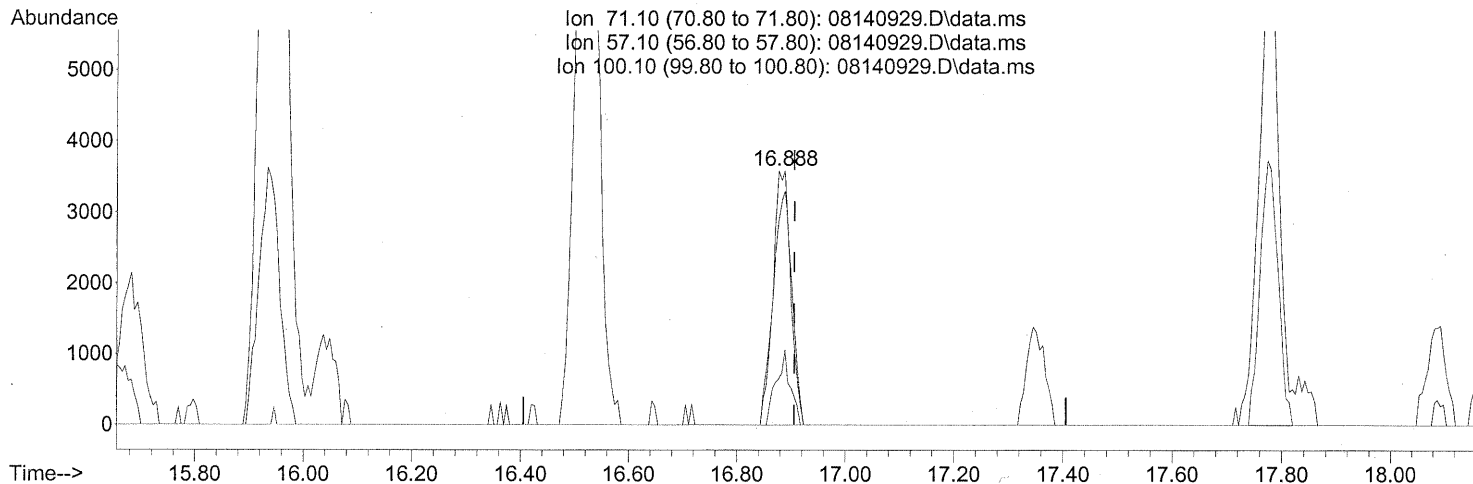
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	43.41
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(51) n-Heptane (T)

16.888min (-0.017) 0.74ng

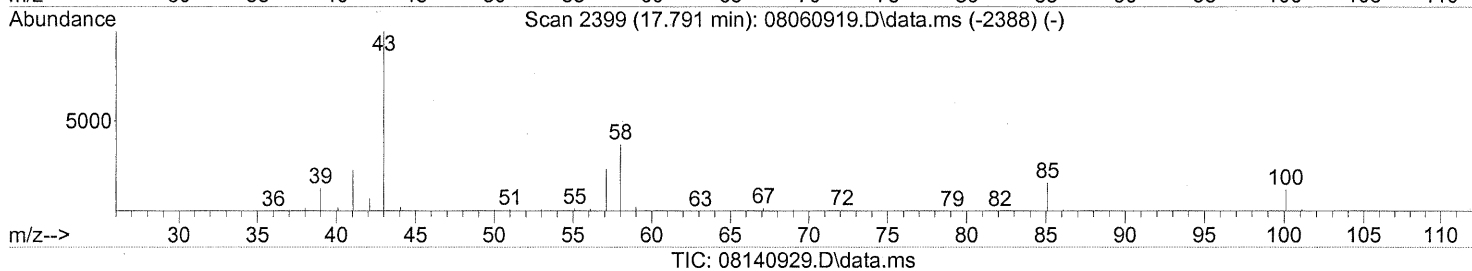
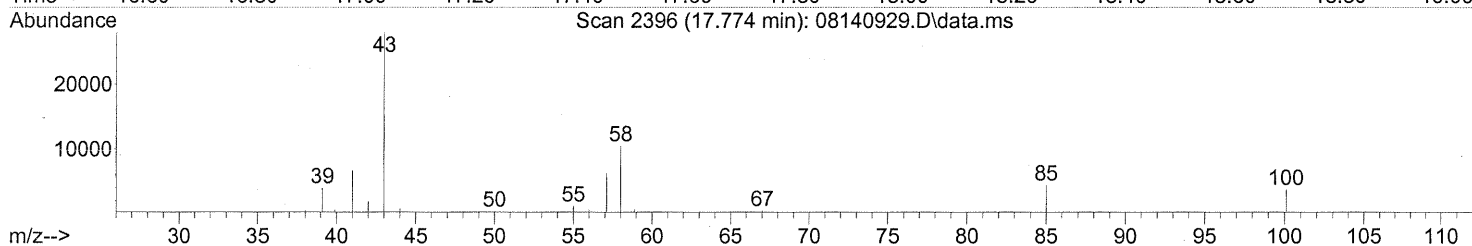
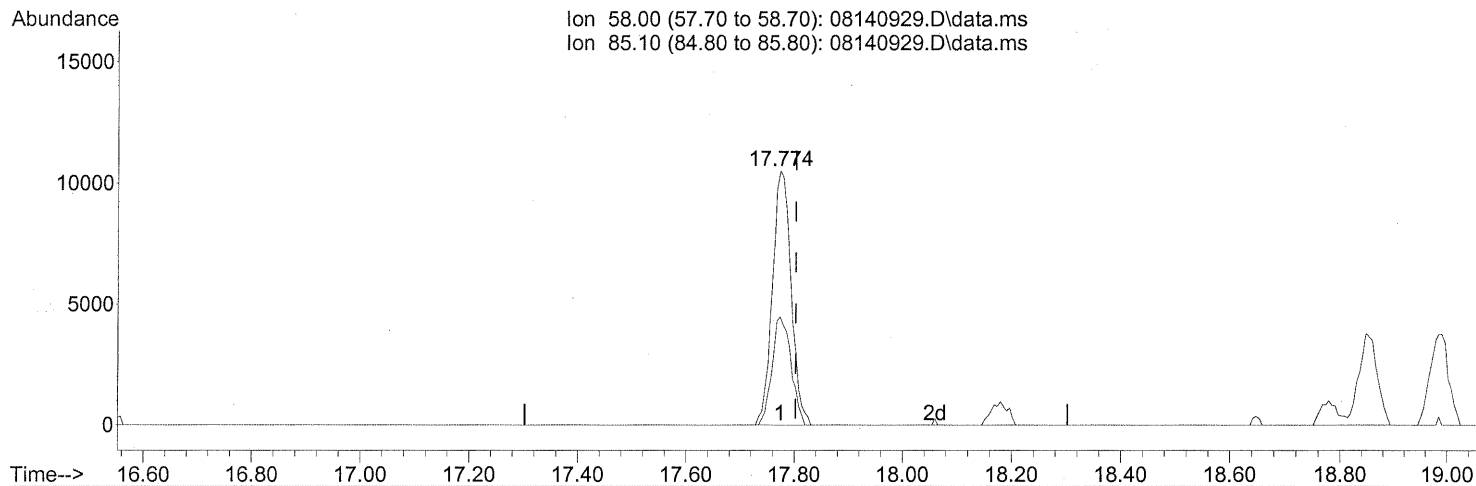
response 8405

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	91.10
100.10	26.40	22.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.774min (-0.028) 2.46ng

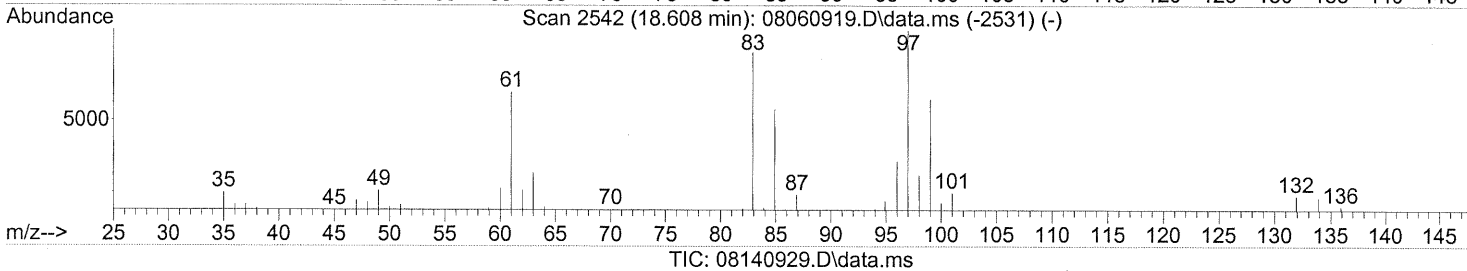
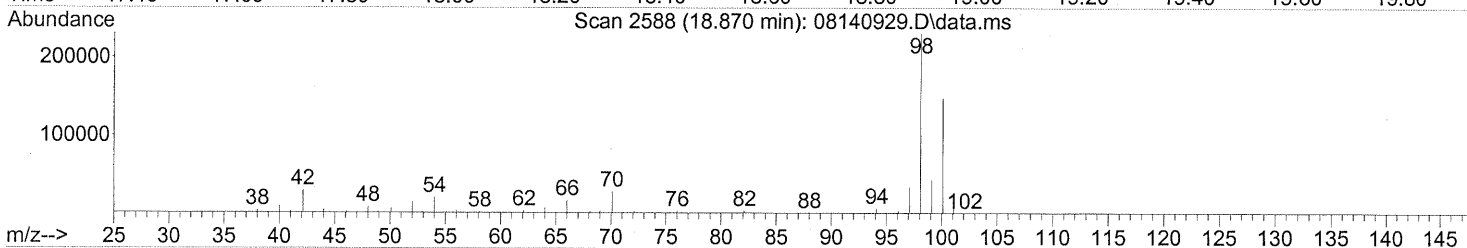
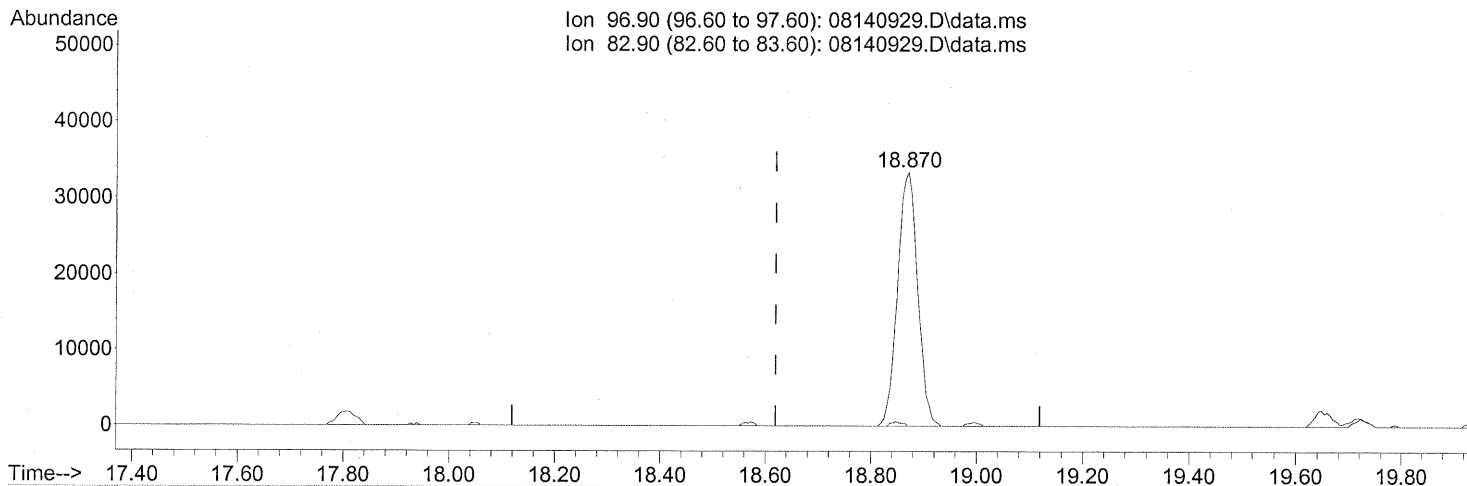
response 25209

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	43.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140929.D
Acq On : 15 Aug 2009 1:38
Operator : WA
Sample : P0902721-008 (1000mL)
Misc : Env. Health & Engineering 99953
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.870min (+0.251) 9.45ng

response 88380

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

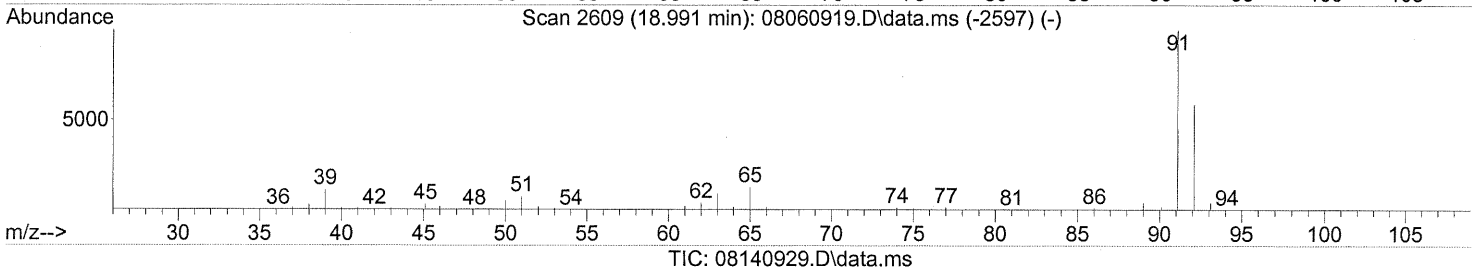
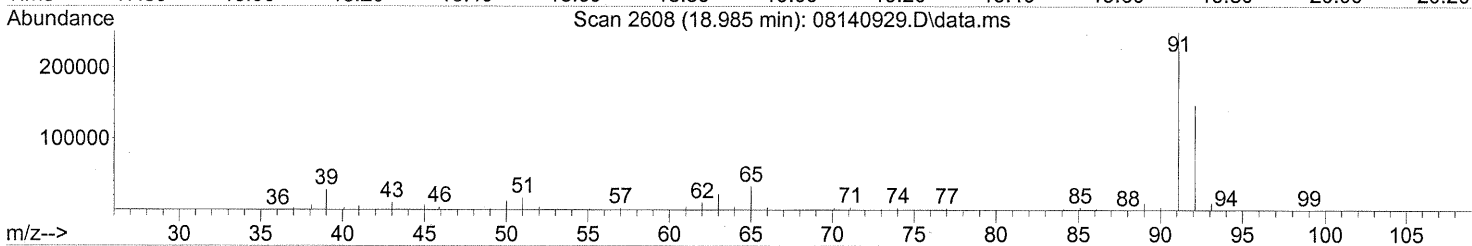
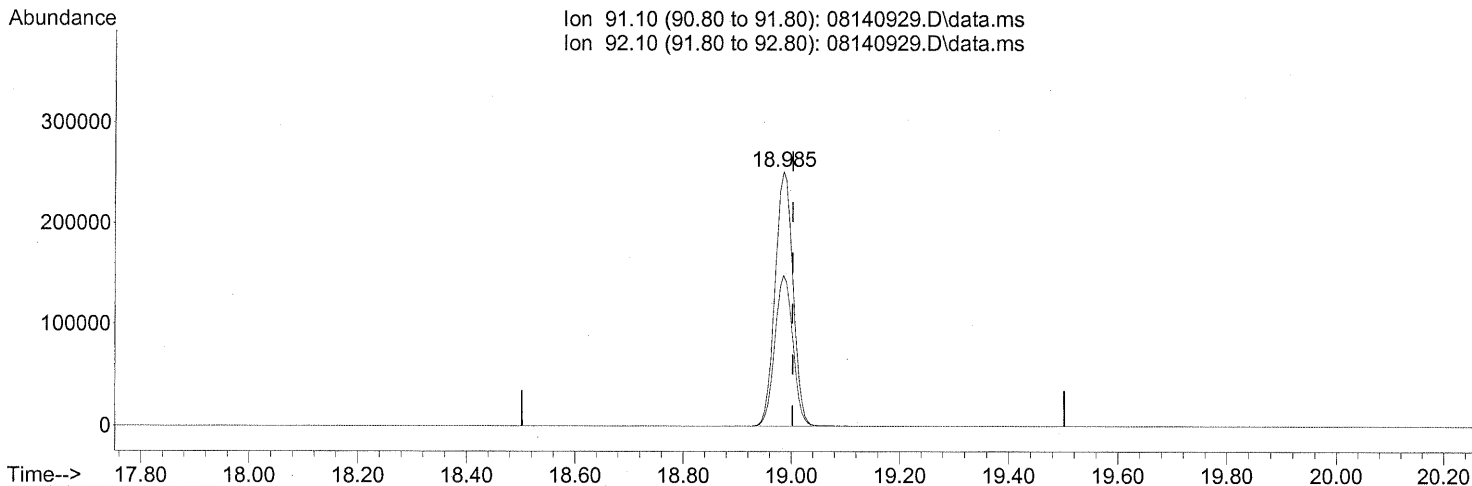
FP *UH* *8/20/09*

SEM *8/21/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 14.22ng

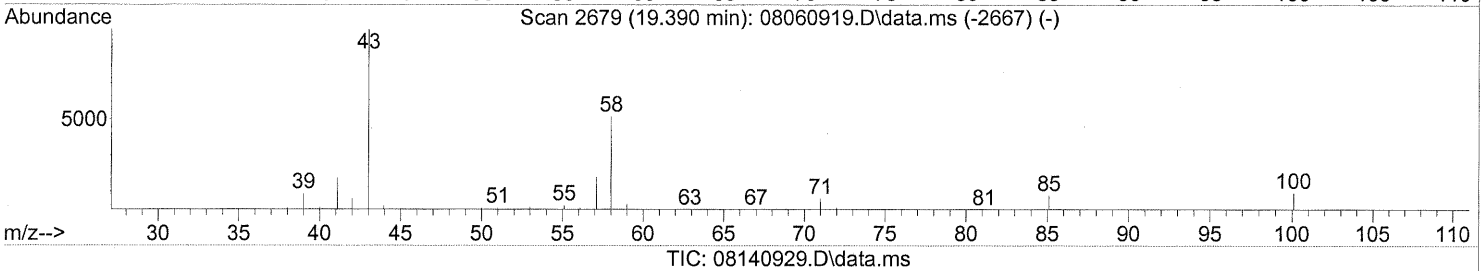
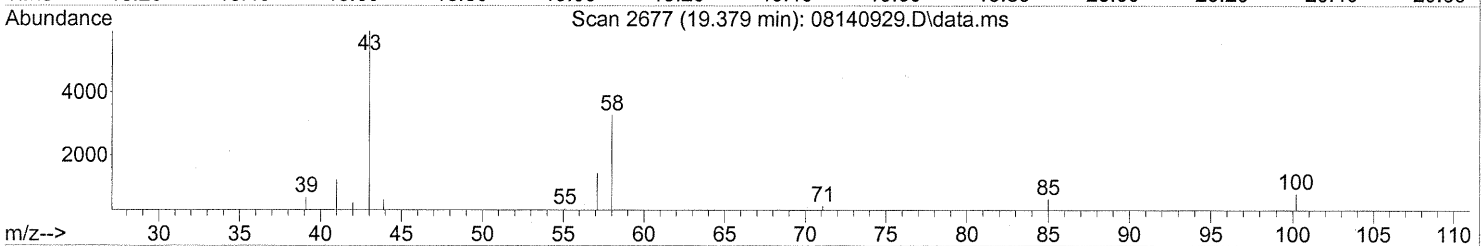
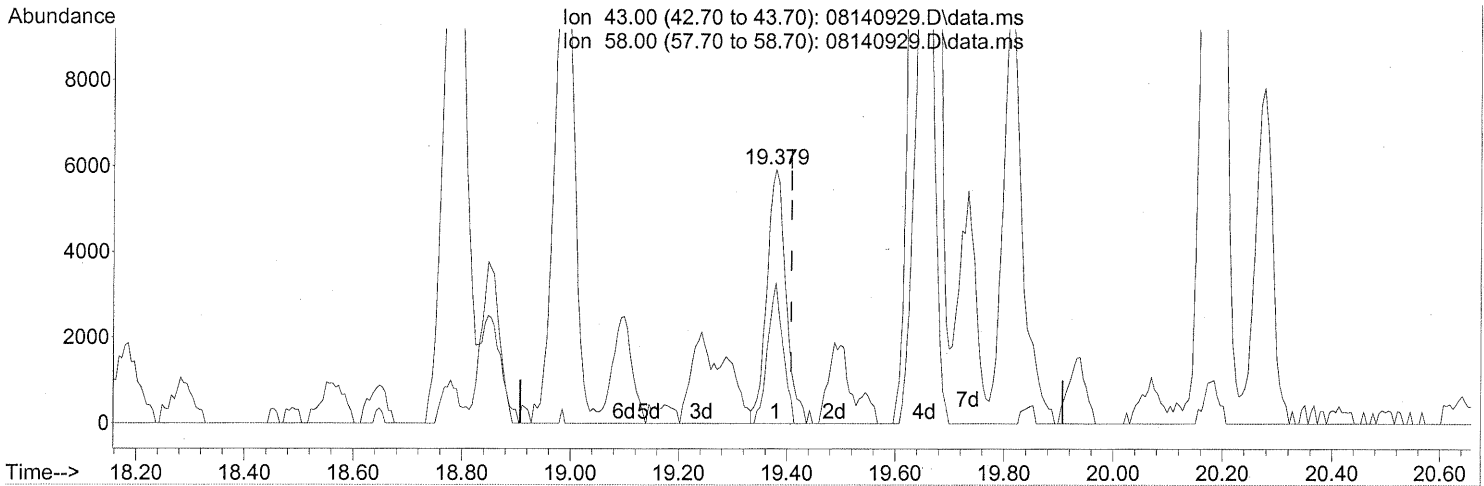
response 575799

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



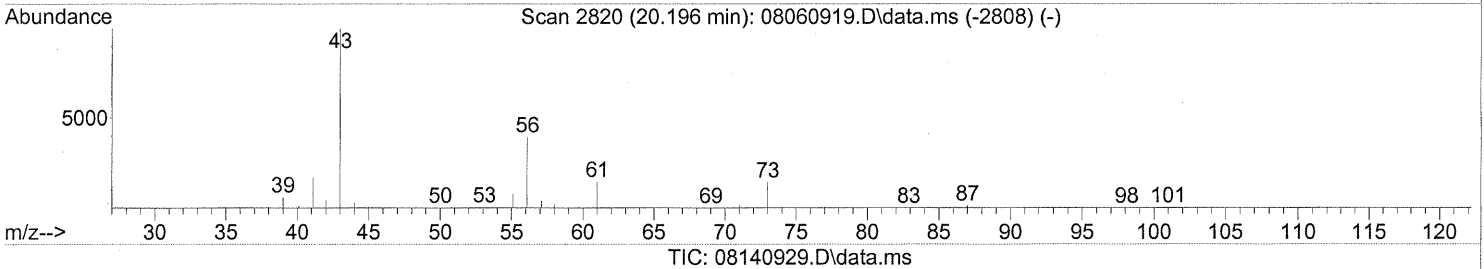
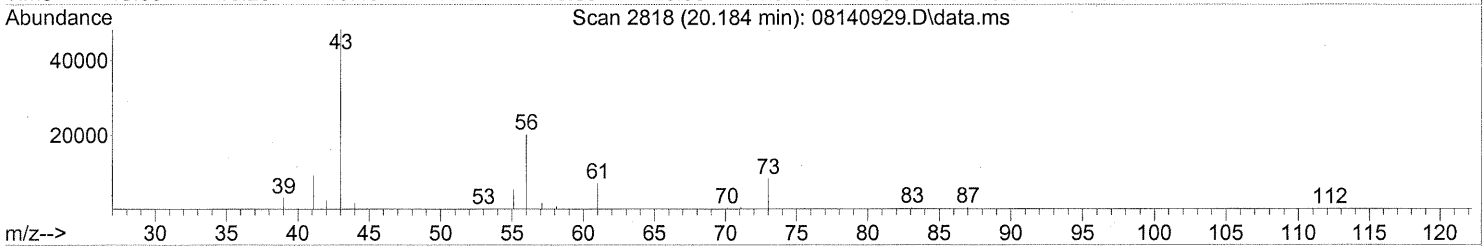
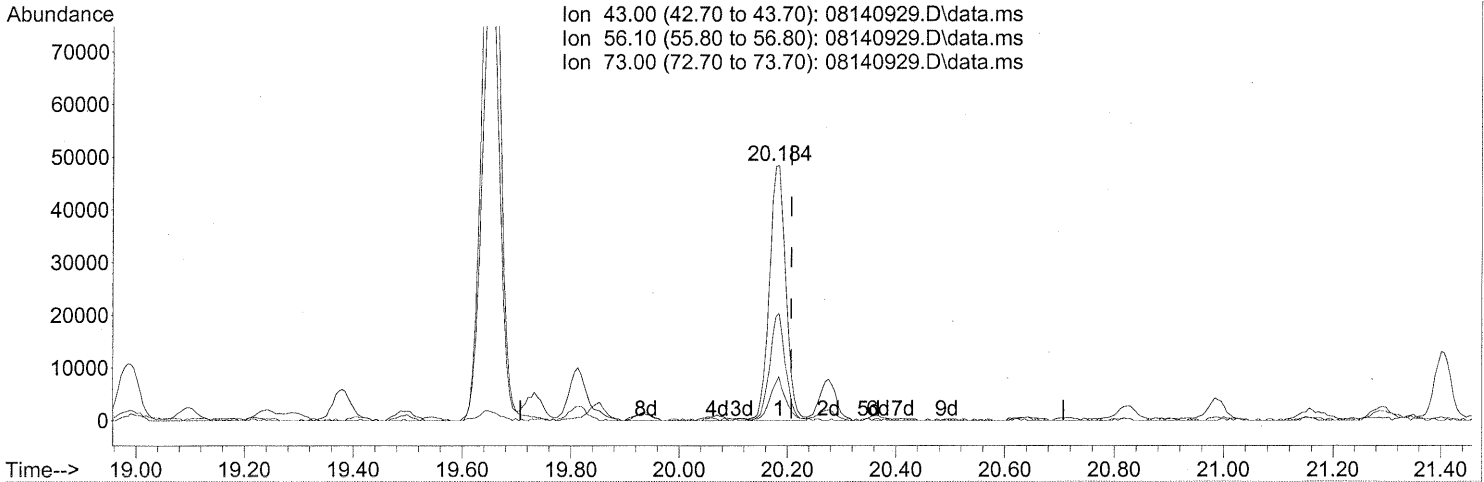
(59) 2-Hexanone (T)
 19.379min (-0.028) 0.55ng
 response 14739

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	44.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(62) n-Butyl Acetate (T)

20.184min (-0.023) 3.23ng

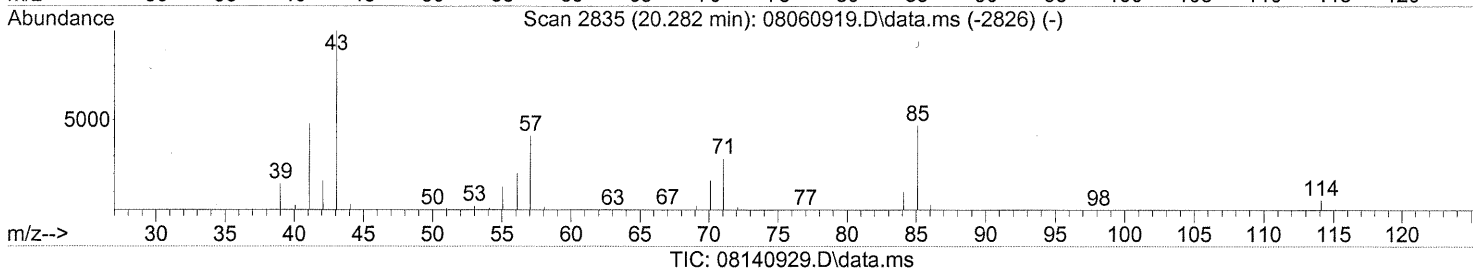
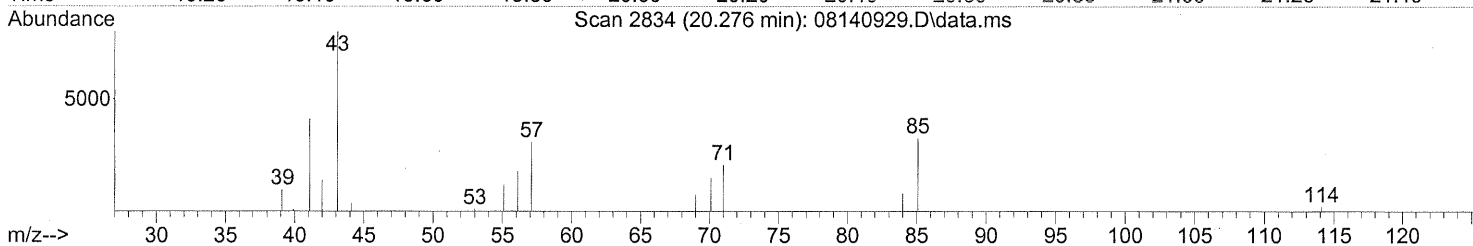
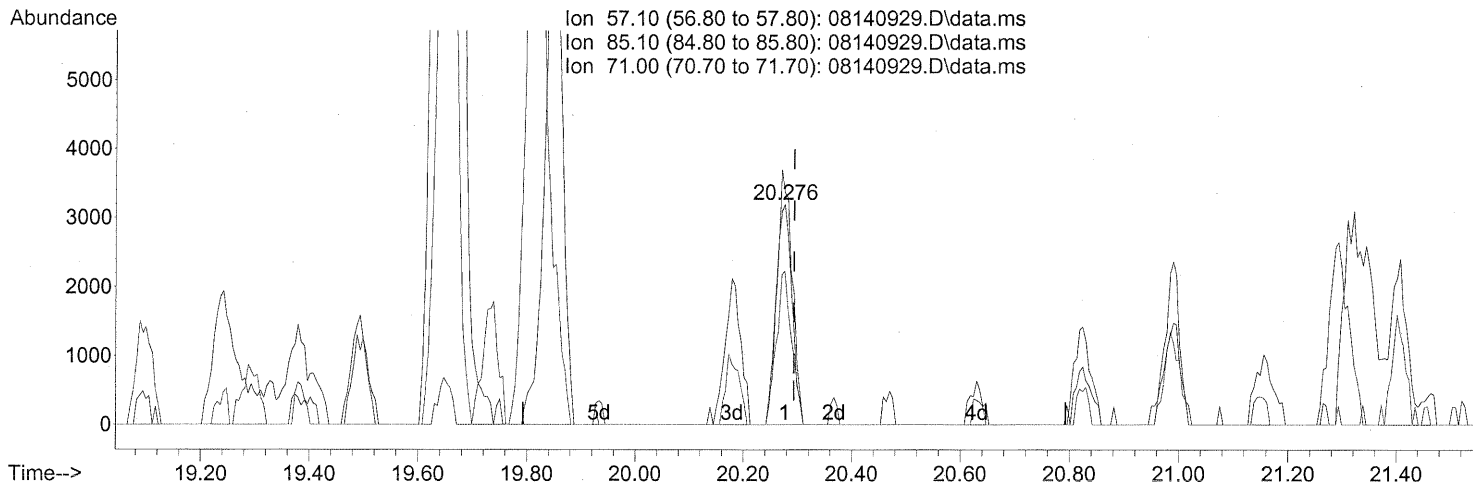
response 102472

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.58
73.00	14.80	16.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.276min (-0.017) 0.66ng

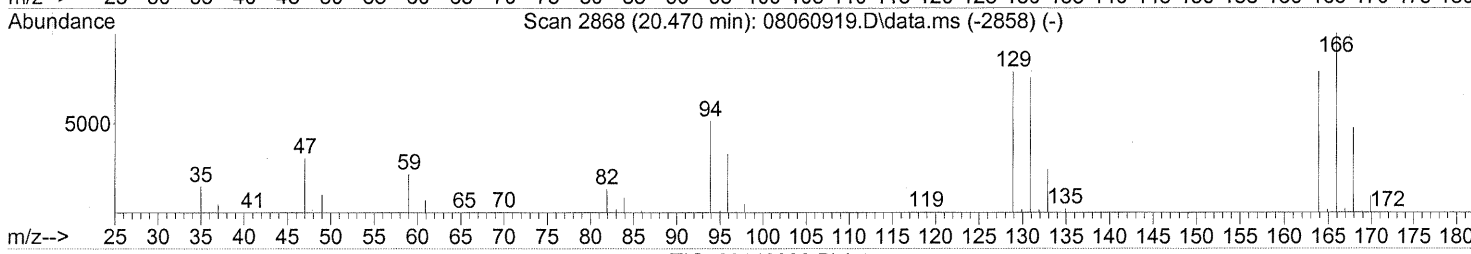
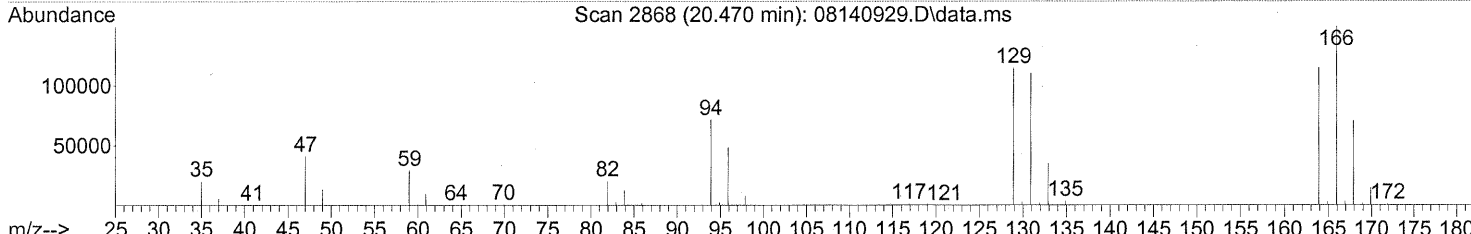
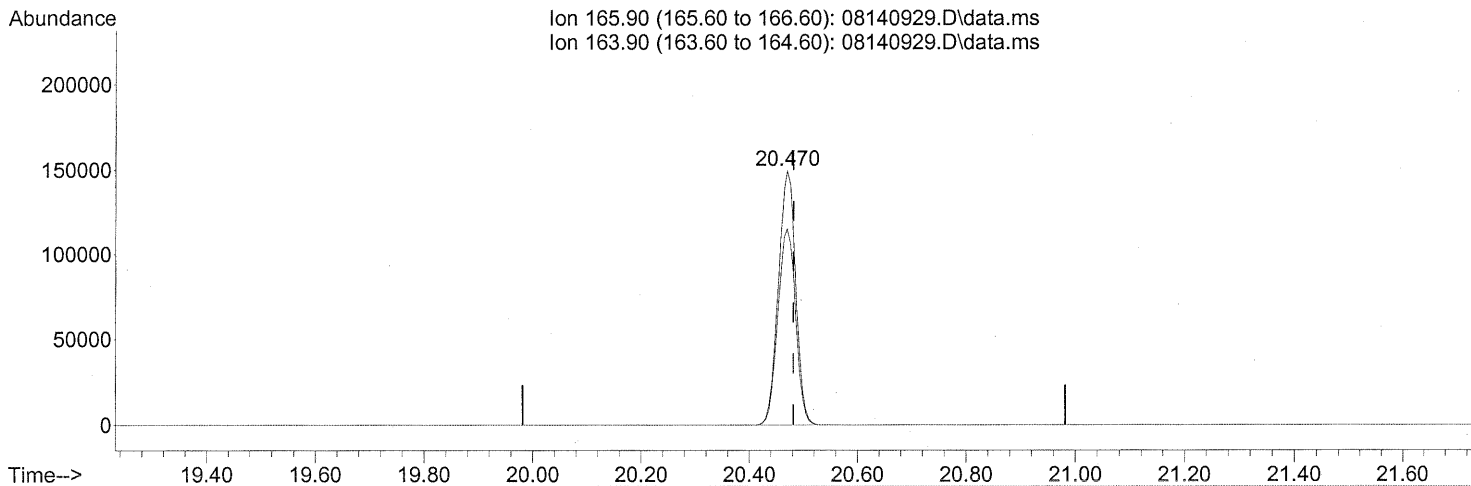
response 6500

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	109.98
71.00	68.10	67.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.470min (-0.011) 35.30ng

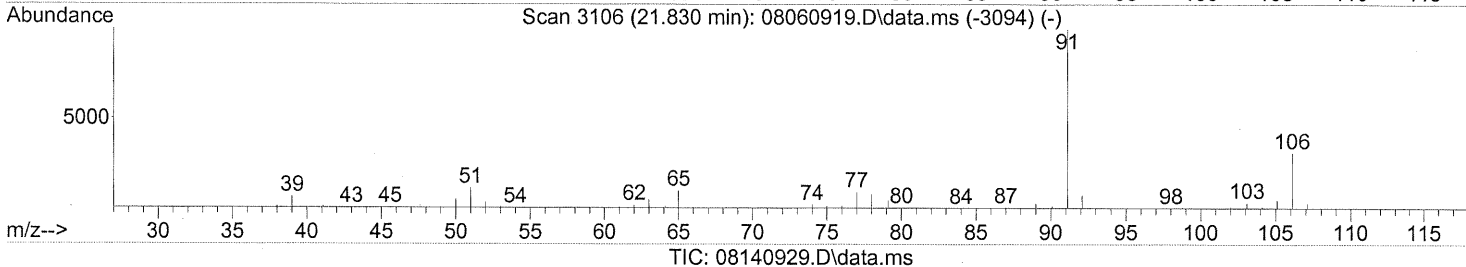
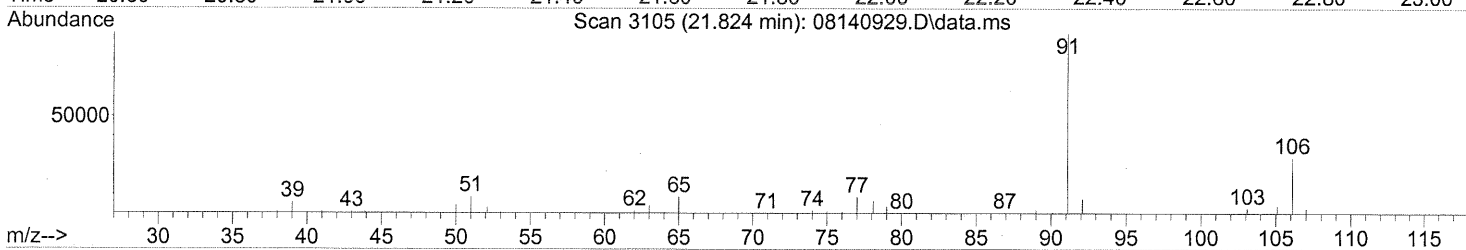
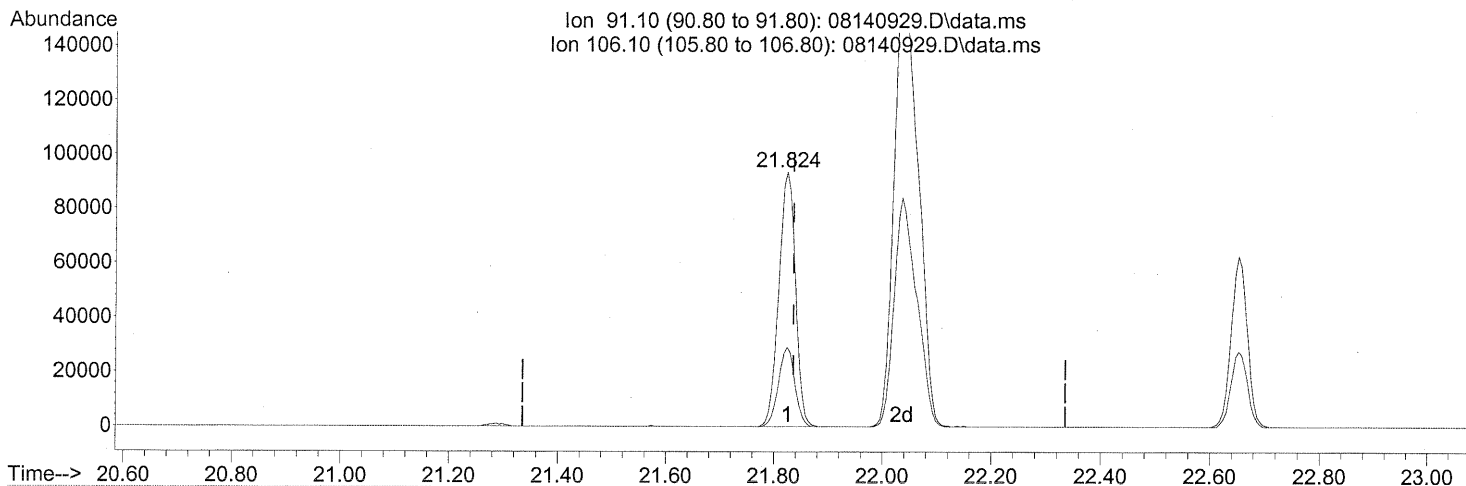
response 330718

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	78.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.824min (-0.011) 4.29ng

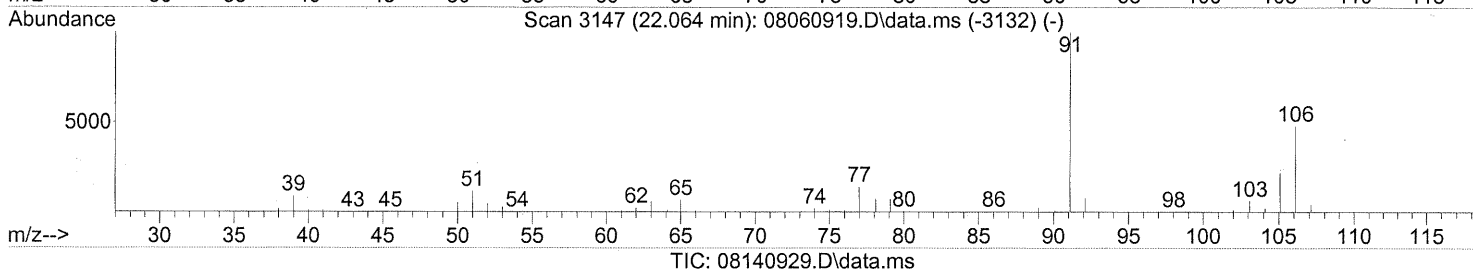
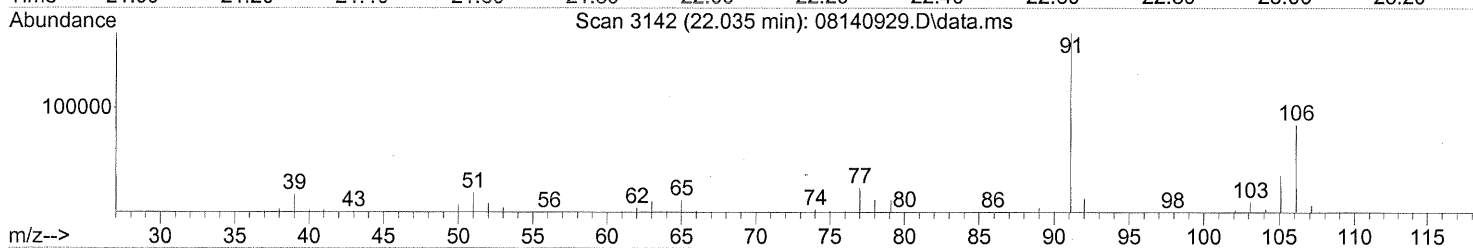
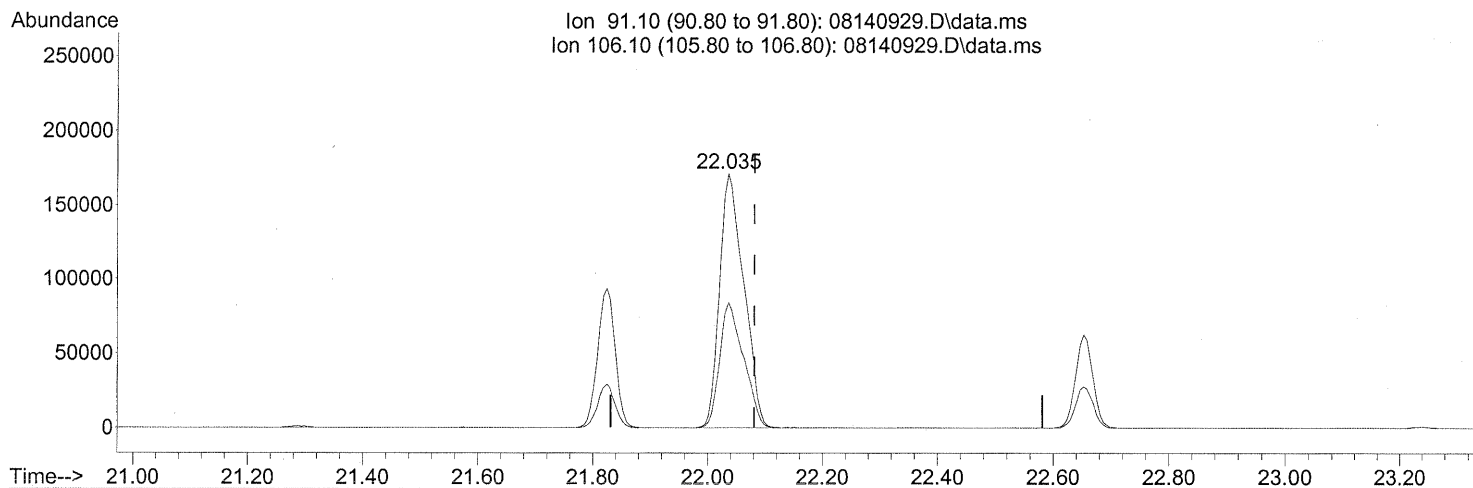
response 198623

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

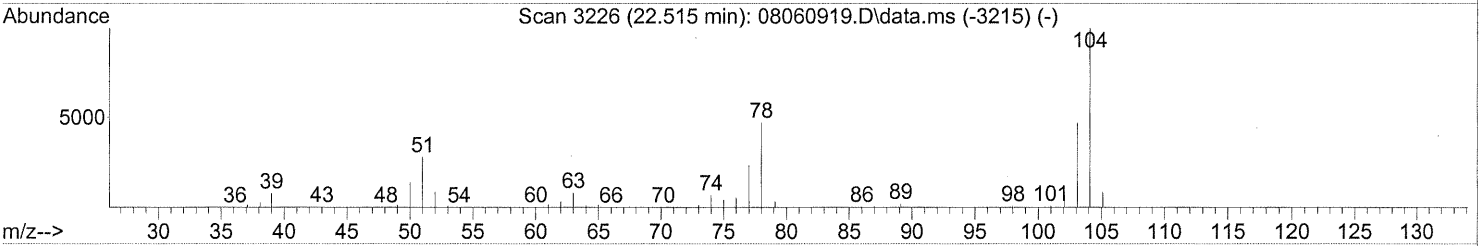
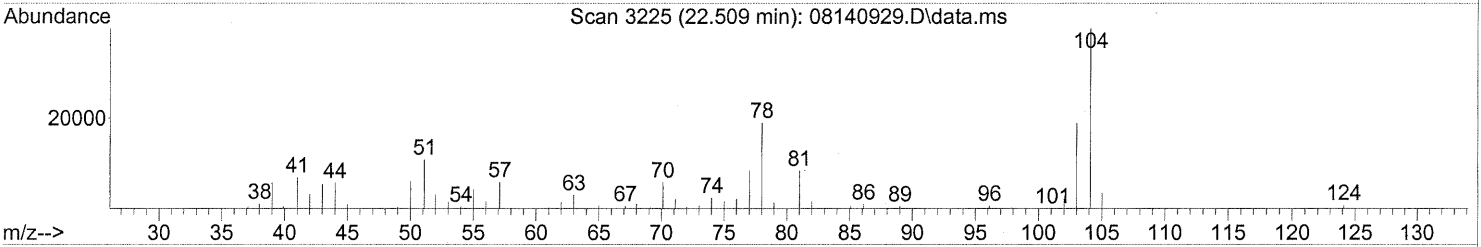
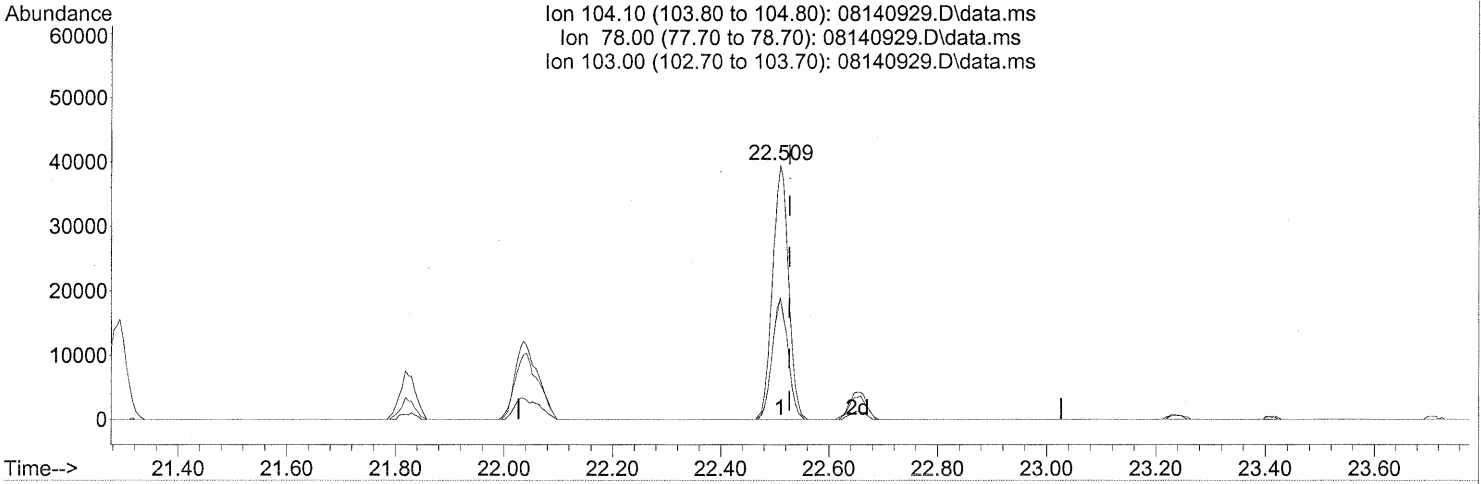
22.035min (-0.046) 13.36ng
 response 500203

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140929.D\data.ms

(69) Styrene (T)

22.509min (-0.017) 2.99ng

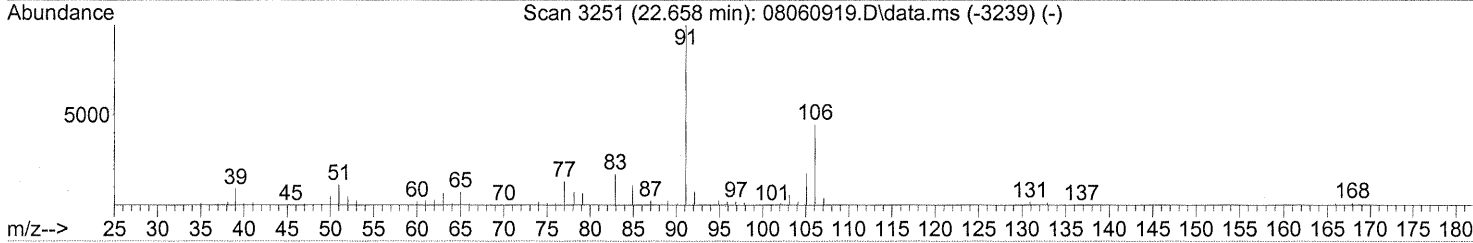
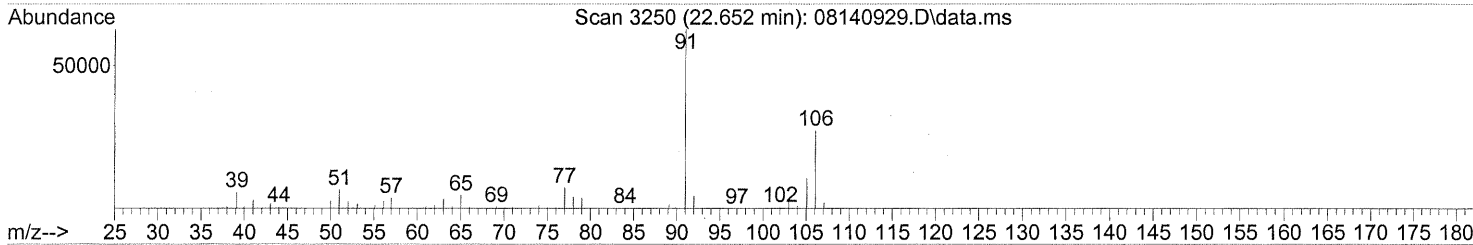
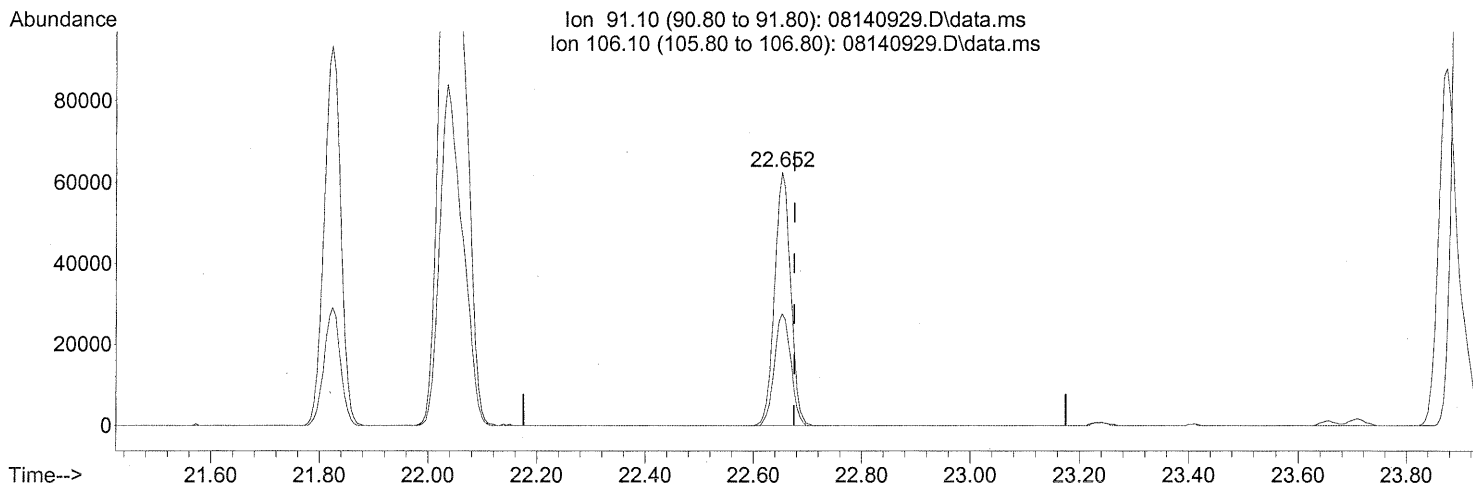
response 80895

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	47.20
103.00	46.20	46.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 3.44ng

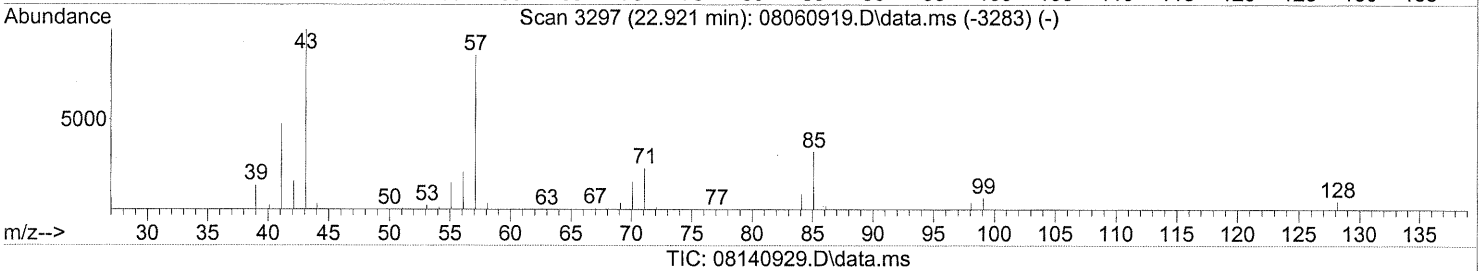
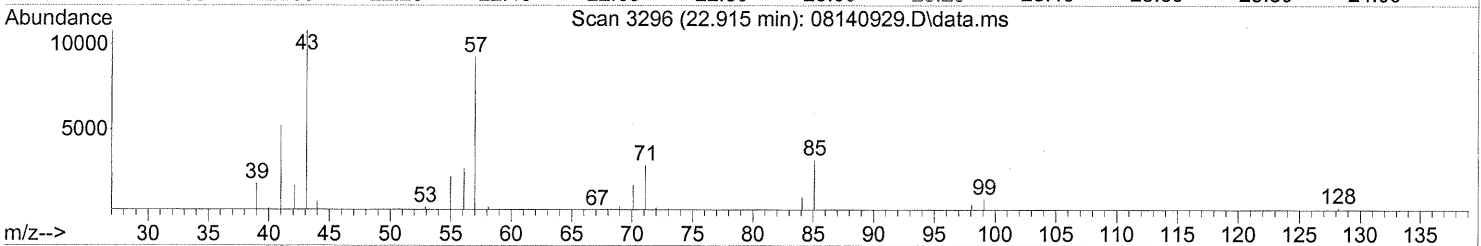
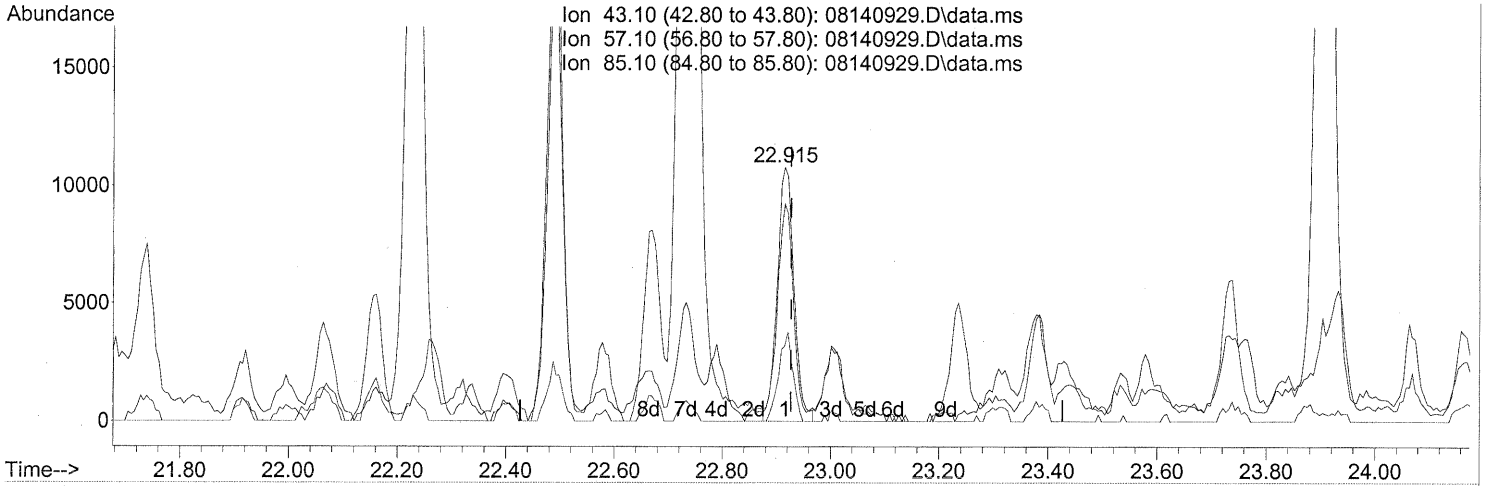
response 129142

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(71) n-Nonane (T)

22.915min (-0.011) 0.93ng

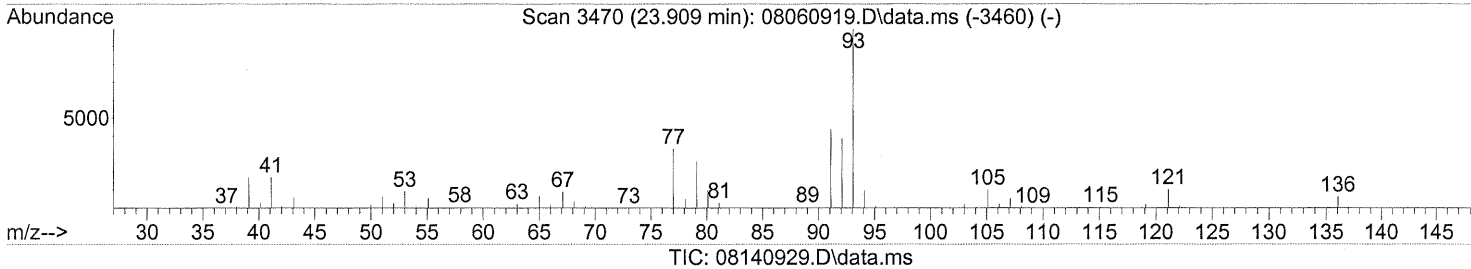
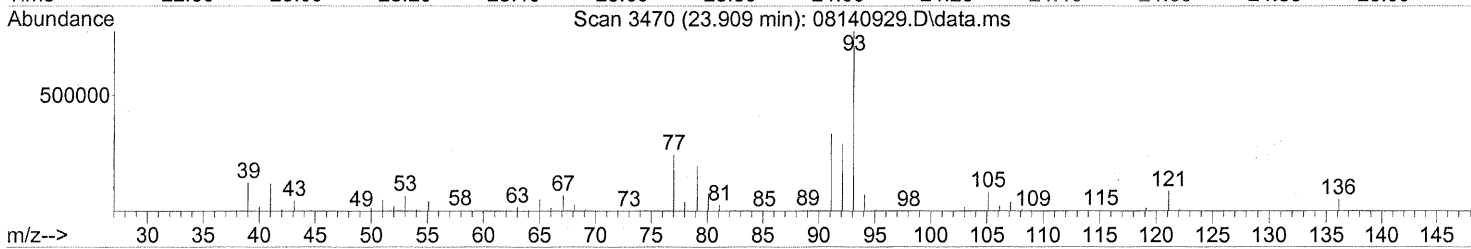
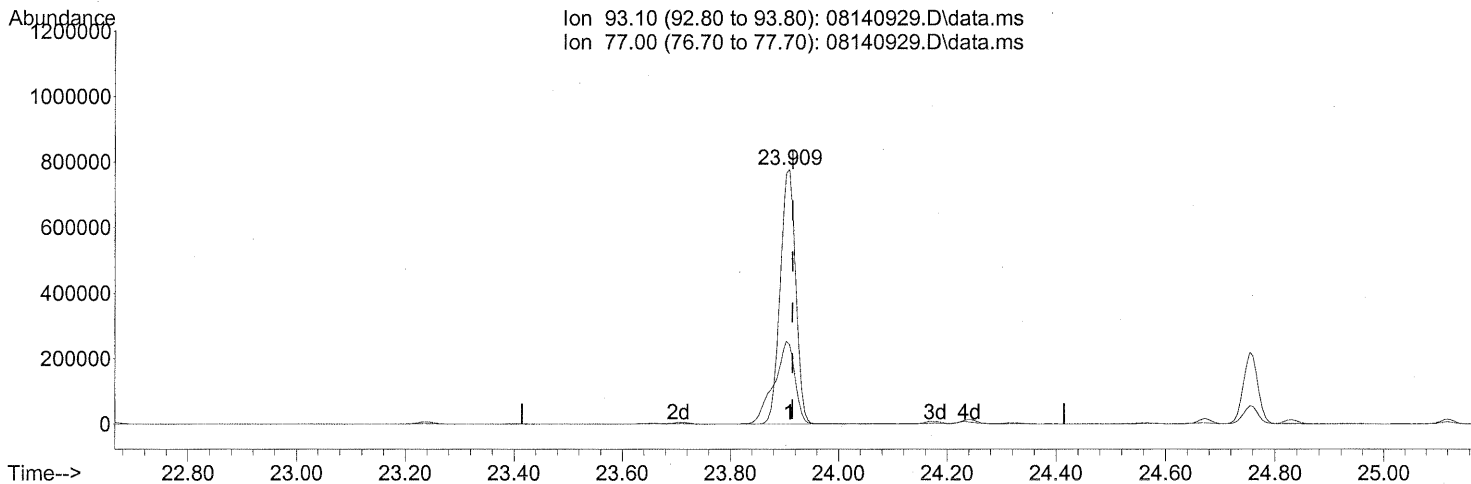
response 23088

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	84.43
85.10	30.40	29.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



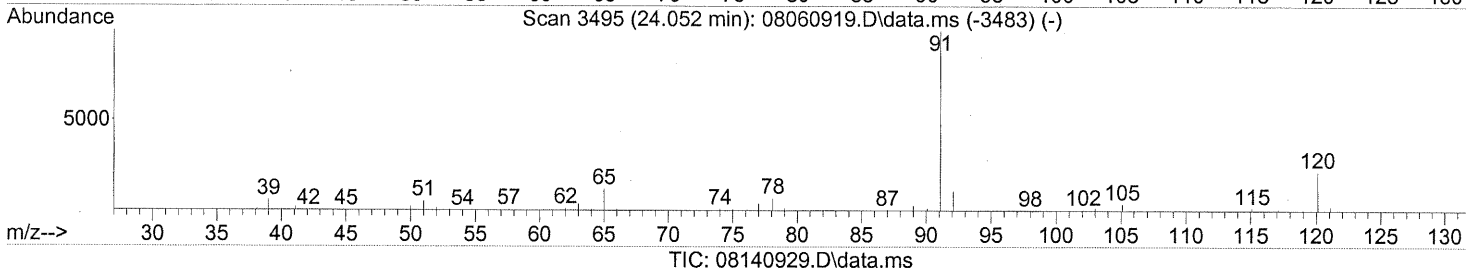
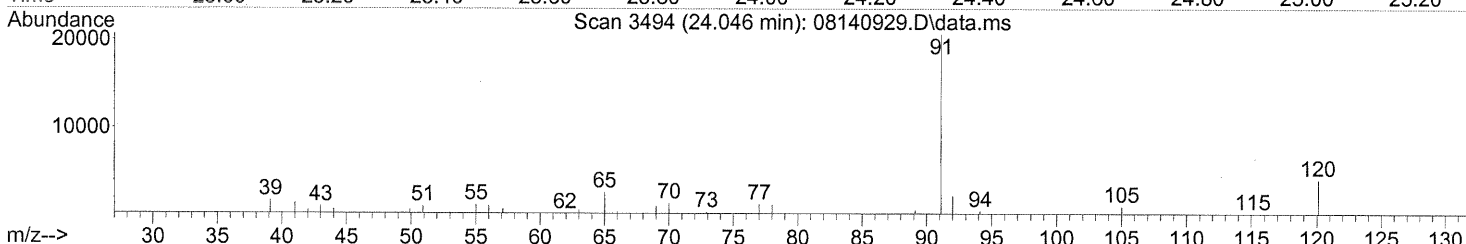
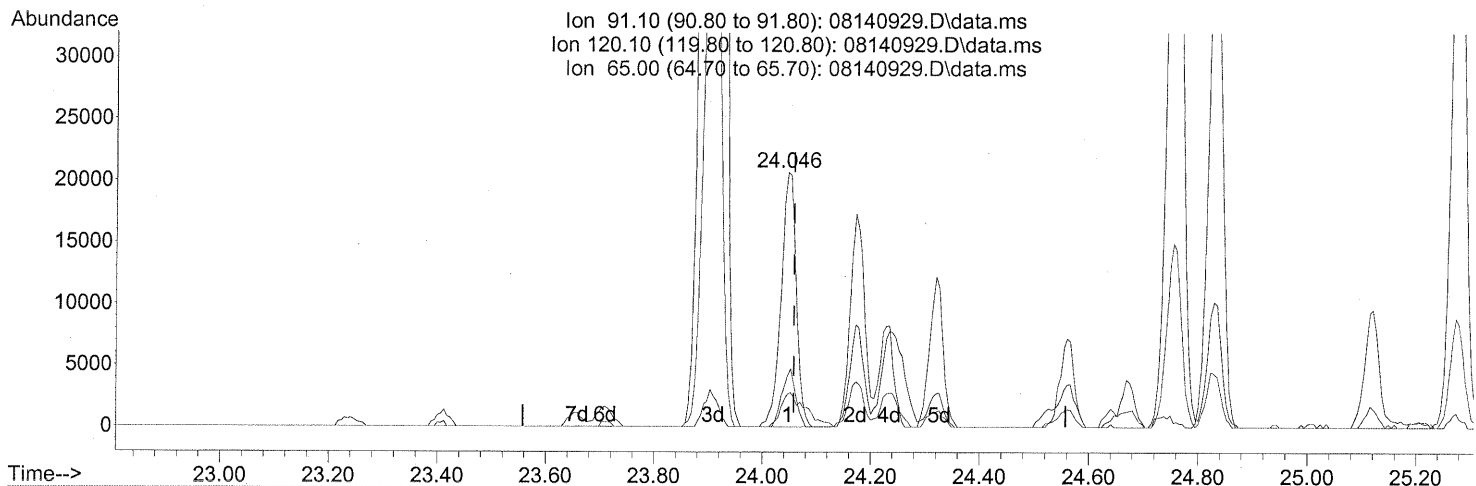
(75) alpha-Pinene (T)
 23.909min (-0.006) 63.57ng
 response 1544982

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	44.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



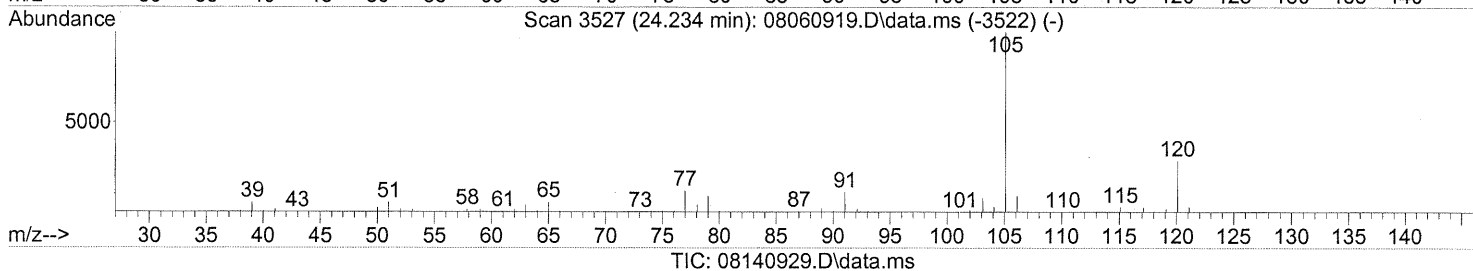
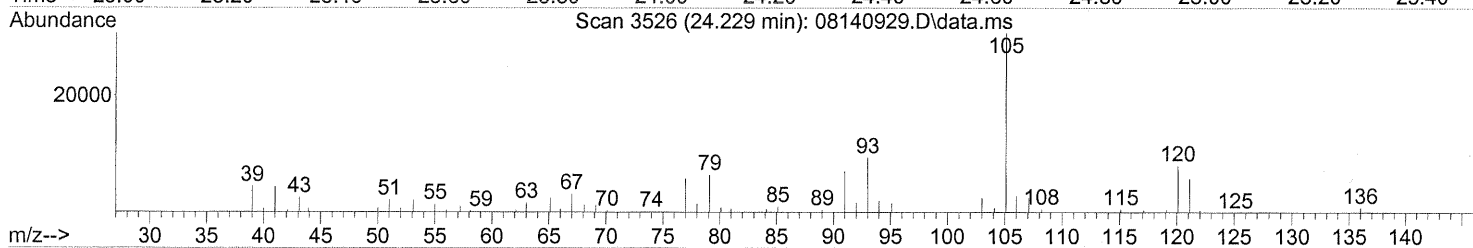
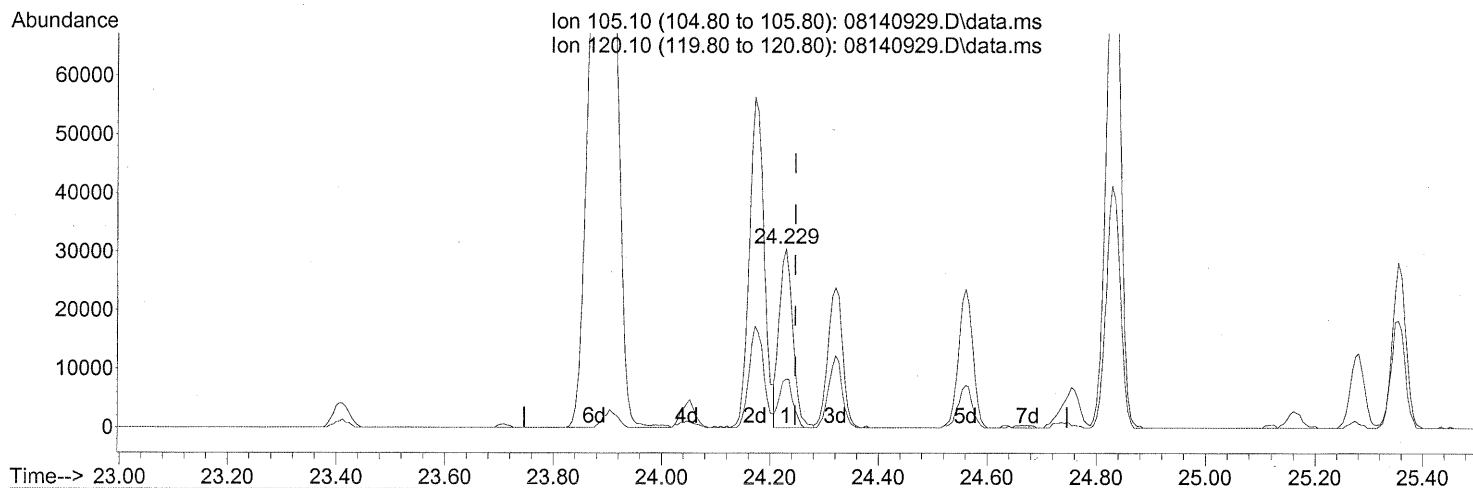
(76) n-Propylbenzene (T)
 24.046min (-0.011) 0.67ng
 response 39910

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	20.34
65.00	12.00	21.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



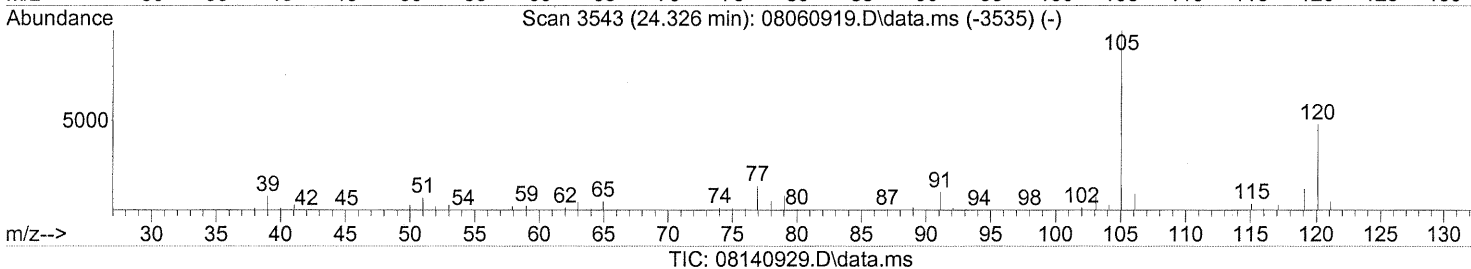
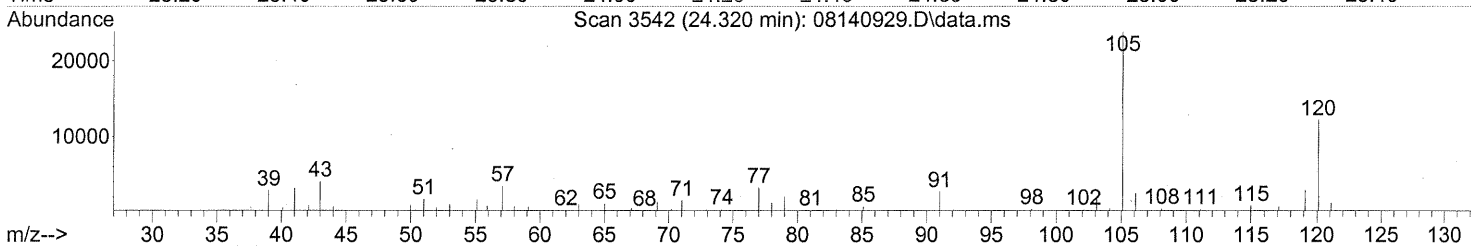
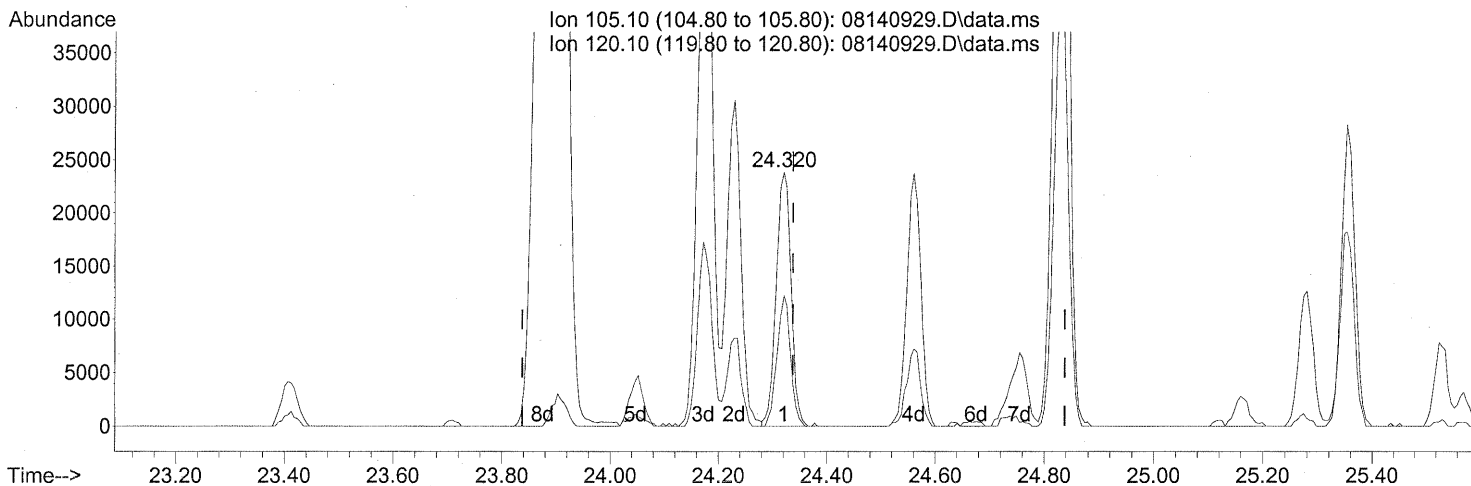
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 1.22ng
 response 53355

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	27.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 1.22ng

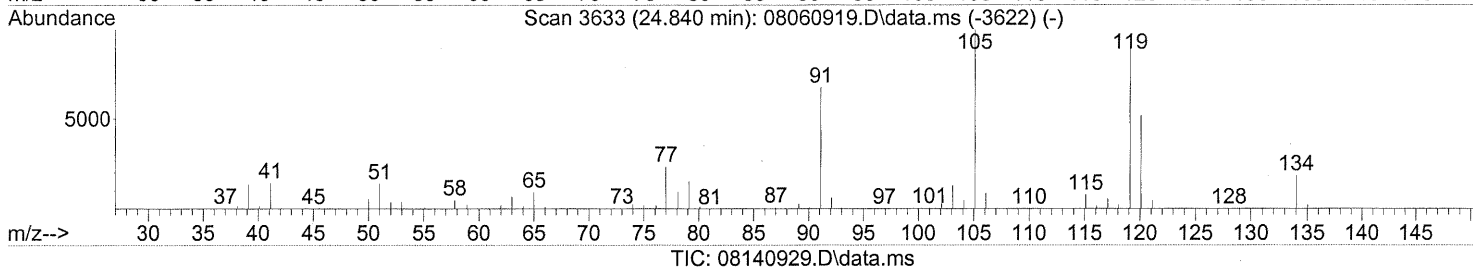
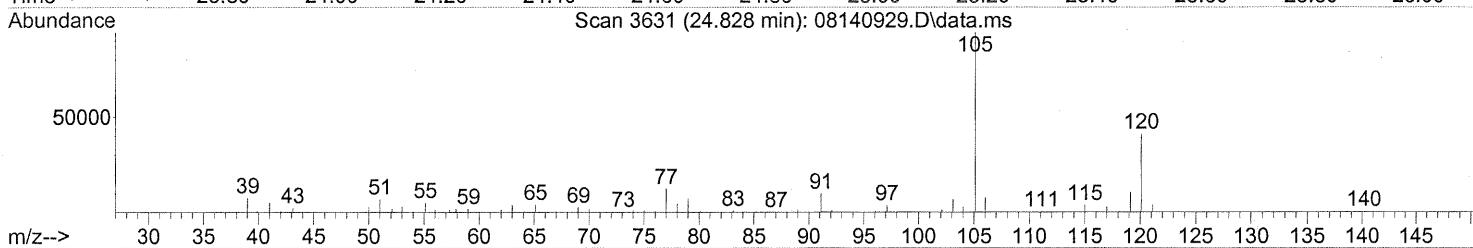
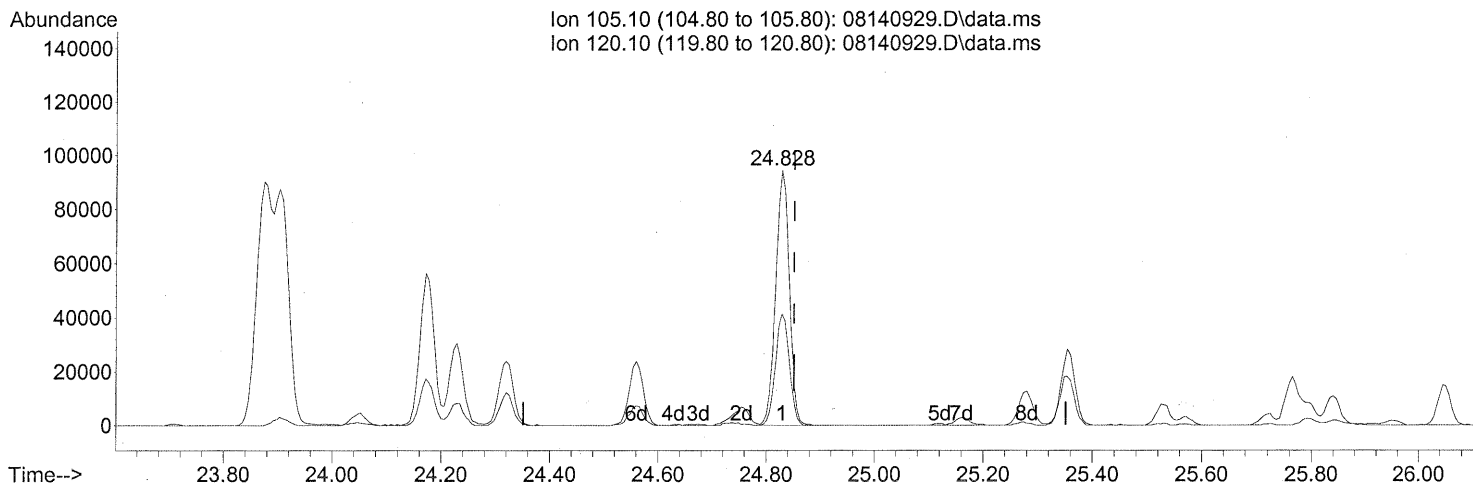
response 45128

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	46.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 4.39ng

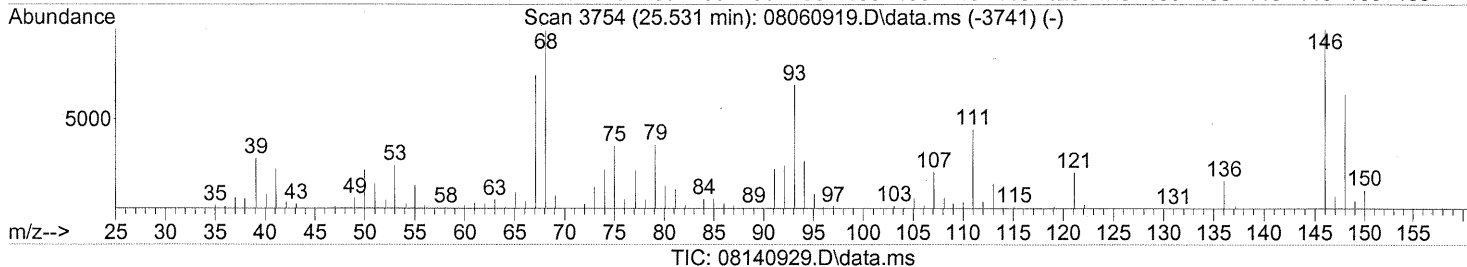
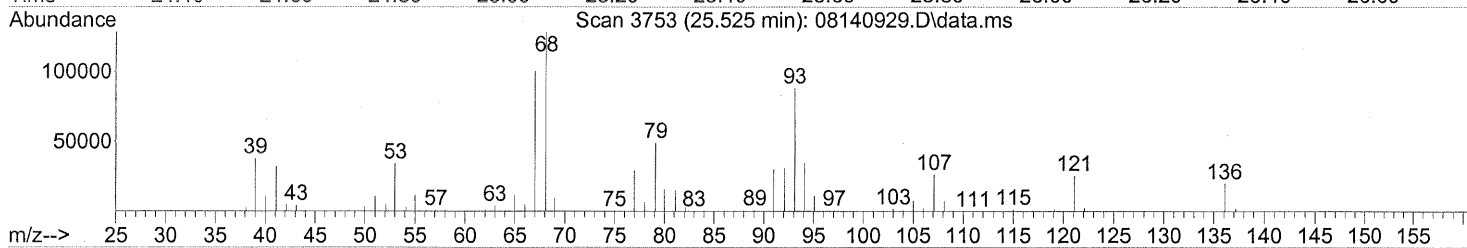
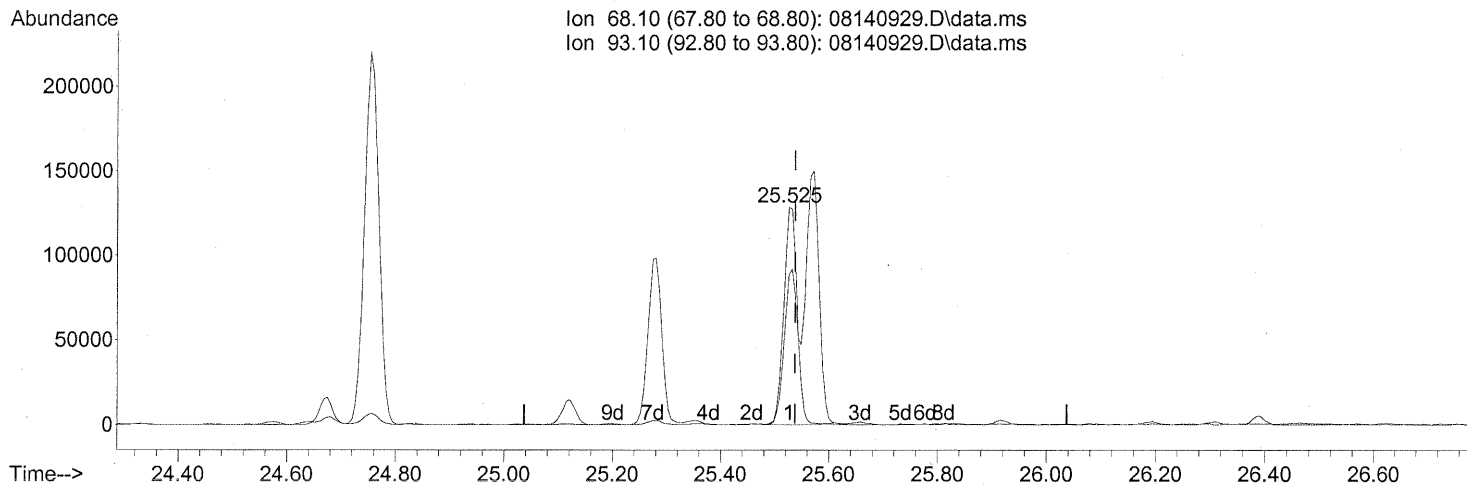
response 165893

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140929.D
 Acq On : 15 Aug 2009 1:38
 Operator : WA
 Sample : P0902721-008 (1000mL)
 Misc : Env. Health & Engineering 99953
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



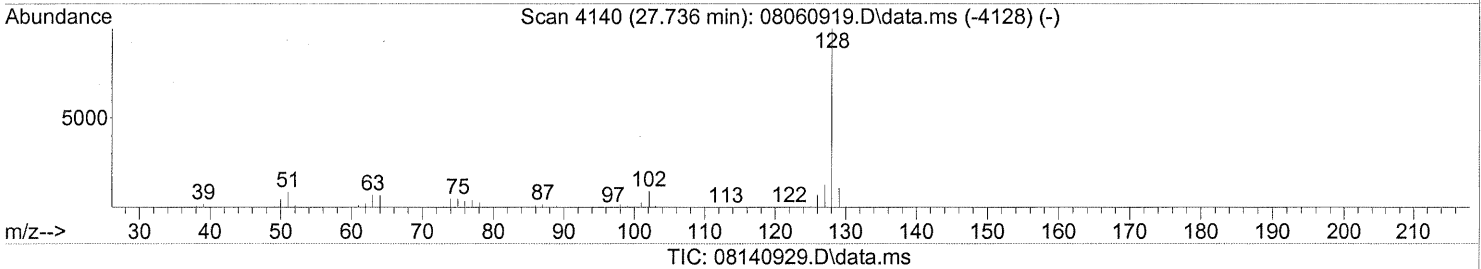
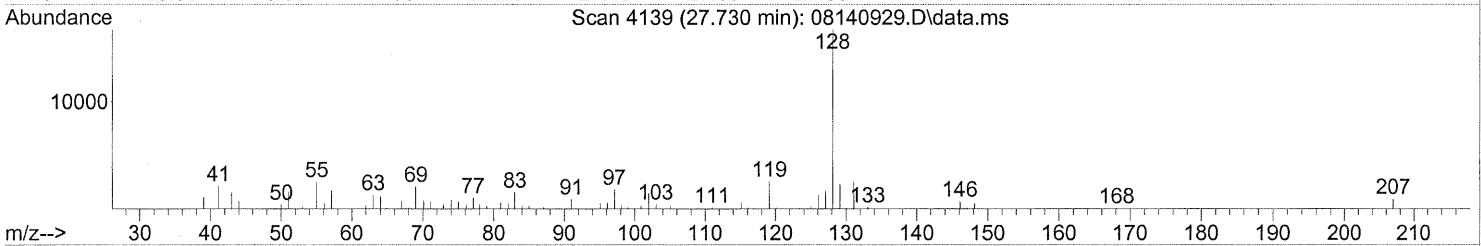
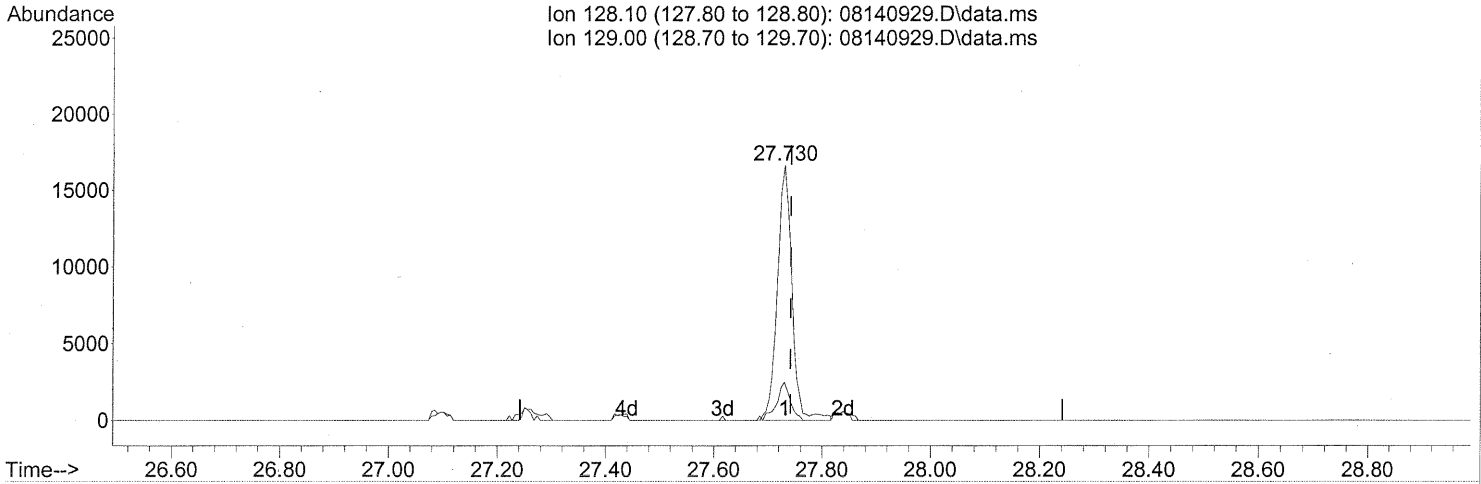
(91) d-Limonene (T)
 25.525min (-0.011) 13.84ng
 response 222246

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	74.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140929.D
Acq On : 15 Aug 2009 1:38
Operator : WA
Sample : P0902721-008 (1000mL)
Misc : Env. Health & Engineering 99953
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 15 07:20:09 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(95) Naphthalene (T)
27.730min (-0.011) 0.60ng
response 30948

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	14.29
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99954
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-009

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: AC00641

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/15/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	0.86	0.75	0.50	0.44	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.75	0.61	0.15	
74-87-3	Chloromethane	0.67	0.15	0.33	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.059	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.068	
74-83-9	Bromomethane	0.21	0.15	0.054	0.039	
75-00-3	Chloroethane	0.31	0.15	0.12	0.057	
64-17-5	Ethanol	17	7.5	8.8	4.0	
75-05-8	Acetonitrile	9.3	0.75	5.5	0.45	
107-02-8	Acrolein	3.8	0.75	1.7	0.33	
67-64-1	Acetone	35	7.5	15	3.2	
75-69-4	Trichlorofluoromethane	1.4	0.15	0.25	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	0.75	0.44	0.31	
107-13-1	Acrylonitrile	ND	0.75	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.038	
75-09-2	Methylene Chloride	ND	0.75	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.048	
76-13-1	Trichlorotrifluoroethane	0.69	0.15	0.090	0.020	
75-15-0	Carbon Disulfide	ND	0.75	ND	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.038	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.042	
108-05-4	Vinyl Acetate	8.3	7.5	2.4	2.1	V
78-93-3	2-Butanone (MEK)	4.4	0.75	1.5	0.25	

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.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

Verified By: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99954
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-009

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: AC00641

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/15/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
141-78-6	Ethyl Acetate	ND	0.75	ND	0.21	
110-54-3	n-Hexane	ND	0.75	ND	0.21	
67-66-3	Chloroform	0.76	0.15	0.16	0.031	
109-99-9	Tetrahydrofuran (THF)	ND	0.75	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	Benzene	0.27	0.15	0.085	0.047	
56-23-5	Carbon Tetrachloride	0.57	0.15	0.091	0.024	
110-82-7	Cyclohexane	ND	0.75	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.75	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.75	ND	0.18	
142-82-5	n-Heptane	ND	0.75	ND	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	0.75	ND	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	0.99	0.75	0.26	0.20	
591-78-6	2-Hexanone	1.4	0.75	0.33	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	n-Butyl Acetate	ND	0.75	ND	0.16	

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: _____ Date: 8/24/09 **355**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99954
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-009

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: AC00641

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/15/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.77	0.75	0.17	0.16	
127-18-4	Tetrachloroethene	0.67	0.15	0.099	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	ND	0.75	ND	0.17	
179601-23-1	m,p-Xylenes	ND	0.75	ND	0.17	
75-25-2	Bromoform	ND	0.75	ND	0.073	
100-42-5	Styrene	ND	0.75	ND	0.18	
95-47-6	o-Xylene	ND	0.75	ND	0.17	
111-84-2	n-Nonane	ND	0.75	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.75	ND	0.15	
80-56-8	alpha-Pinene	2.2	0.75	0.39	0.13	
103-65-1	n-Propylbenzene	ND	0.75	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.75	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.75	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.75	ND	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.029	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	ND	0.75	ND	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	ND	0.078	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	ND	0.10	
91-20-3	Naphthalene	ND	0.75	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

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: _____

Date: _____

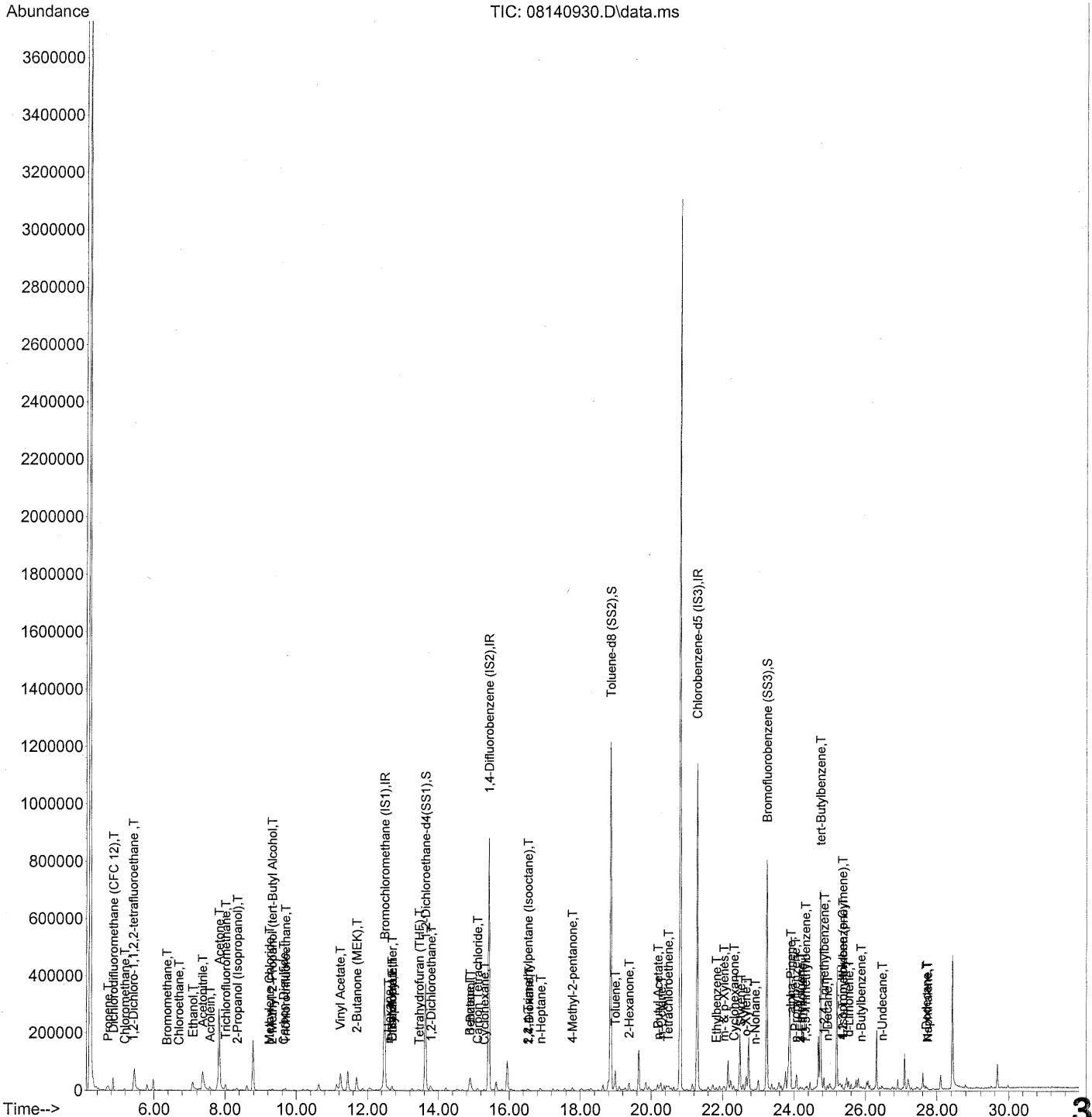
8/24/09

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Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140930.D
Acq On : 15 Aug 2009 2:20
Operator : WA
Sample : P0902721-009 (1000mL)
Misc : Env. Health & Engineering 99954
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 20 09:52:35 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954 ✓
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 20 09:52:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

ul 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	193108	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	972085	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	474644	25.000	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4(...)	13.63	65	387416	23.082	ng	-0.03
Spiked Amount				25.000		
				Recovery =	92.32%	✓
57) Toluene-d8 (SS2)	18.85	98	1040715	25.094	ng	-0.01
Spiked Amount				25.000		
				Recovery =	100.36%	✓
73) Bromofluorobenzene (SS3)	23.24	174	256848	23.484	ng	0.00
Spiked Amount				25.000		
				Recovery =	93.92%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.70	42	7580	0.572 ng	#	75
3) Dichlorodifluoromethan...	4.85	85	43230	1.996 ng	#	98
4) Chloromethane	5.17	50	6539	0.449 ng	#	91
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	719	0.082 ng	#	44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.89	54	194	N.D.		
8) Bromomethane	6.37	94	1186	0.139 ng	#	78
9) Chloroethane	6.70	64	1672	0.206 ng	#	50
10) Ethanol	7.09	45	92872	11.057 ng		100
11) Acetonitrile	7.36	41	152719	6.208 ng		99
12) Acrolein	7.57	56	16186	2.531 ng		98
13) Acetone	7.83	58	187495	23.657 ng	#	71
14) Trichlorofluoromethane	8.01	101	18645	0.952 ng		99
15) 2-Propanol (Isopropanol)	8.34	45	22555	0.724 ng		93
16) Acrylonitrile	8.62	53	151	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.31	59	2372	0.086 ng	#	1
19) Methylene Chloride	9.24	84	2407	0.226 ng		84
20) 3-Chloro-1-propene (Al...	9.43	41	97	N.D.		
21) Trichlorotrifluoroethane	9.69	151	3276	0.460 ng		99
22) Carbon Disulfide	9.63	76	10821	0.288 ng		91
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	11.23	86	8944	5.545 ng	#	62
27) 2-Butanone (MEK)	11.70	72	20920	2.923 ng		98
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	552	0.058 ng	#	1
30) Ethyl Acetate	12.68	61	1475	0.396 ng	#	8
31) n-Hexane	12.59	57	3273	0.172 ng		6

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 20 09:52:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	8536	0.508 ng		99
34) Tetrahydrofuran (THF)	13.45	72	1126	0.148 ng	#	32
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	980	0.064 ng	#	44
38) 1,1,1-Trichloroethane	14.17	97	93	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	34098	2.703 ng		87
41) Benzene	14.88	78	7744	0.181 ng		99
42) Carbon Tetrachloride	15.10	117	5209	0.382 ng		97
43) Cyclohexane	15.29	84	870	0.056 ng	#	71
44) tert-Amyl Methyl Ether	15.99	73	127	N.D.		
45) 1,2-Dichloropropane	15.93	63	194	N.D.		
46) Bromodichloromethane	16.36	83	105	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.55	88	1033	0.126 ng		89
49) 2,2,4-Trimethylpentane...	16.53	57	7309	0.145 ng		74
50) Methyl Methacrylate	16.89	100	87	N.D.		
51) n-Heptane	16.89	71	1391	0.121 ng	#	75
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	3316	0.323 ng		90
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	26868	0.659 ng		99
59) 2-Hexanone	19.37	43	24653	0.910 ng		97
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	5409	0.169 ng	#	55
63) n-Octane	20.28	57	5078	0.515 ng		91
64) Tetrachloroethene	20.47	166	4203	0.446 ng		99
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.82	91	7201	0.155 ng		91
67) m- & p-Xylenes	22.04	91	16603	0.440 ng		99
68) Bromoform	22.15	173	324	N.D.		
69) Styrene	22.51	104	4854	0.178 ng		98
70) o-Xylene	22.65	91	6092	0.161 ng		98
71) n-Nonane	22.91	43	3094	0.123 ng		86
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	d	
74) Cumene	23.42	105	518	N.D.		
75) alpha-Pinene	23.90	93	35632	1.456 ng	#	42
76) n-Propylbenzene	24.03	91	3350	0.056 ng	#	64
77) 3-Ethyltoluene	24.18	105	5379	0.118 ng		91
78) 4-Ethyltoluene	24.23	105	2681	0.061 ng		87
79) 1,3,5-Trimethylbenzene	24.31	105	2518	0.068 ng		8

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 20 09:52:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

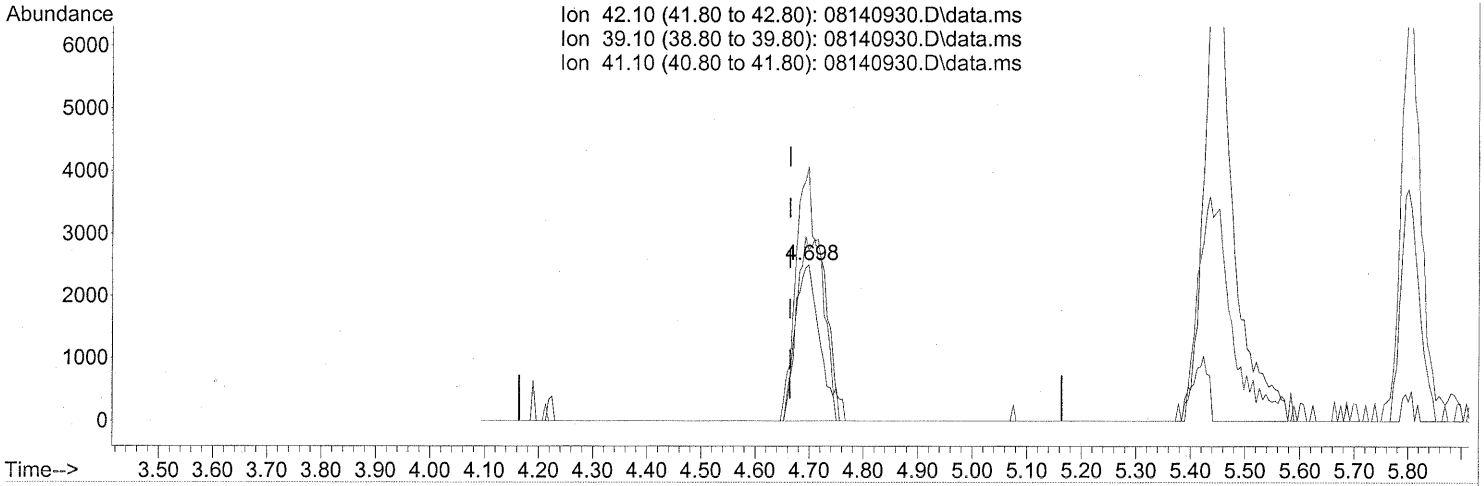
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	189	N.D.		
81) 2-Ethyltoluene	24.56	105	2269	N.D.		
82) 1,2,4-Trimethylbenzene	24.83	105	7183	0.189 ng		87
83) n-Decane	24.93	57	7609	0.308 ng		96
84) Benzyl Chloride	25.00	91	1531	N.D.		
85) 1,3-Dichlorobenzene	25.11	146	837	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	837	N.D.		
87) sec-Butylbenzene	25.16	105	270	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	4976	0.109 ng		98
89) 1,2,3-Trimethylbenzene	25.36	105	2376	0.061 ng		95
90) 1,2-Dichlorobenzene	25.11	146	837	N.D.		
91) d-Limonene	25.53	68	4968	0.307 ng		94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	6037	0.230 ng	#	74
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	7967	0.154 ng		95
96) n-Dodecane	27.70	57	5631	0.184 ng		93
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	11270	0.667 ng	#	87
99) tert-Butylbenzene	24.73	119	15974	0.434 ng		96
100) n-Butylbenzene	25.87	91	4773	0.113 ng	#	45

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

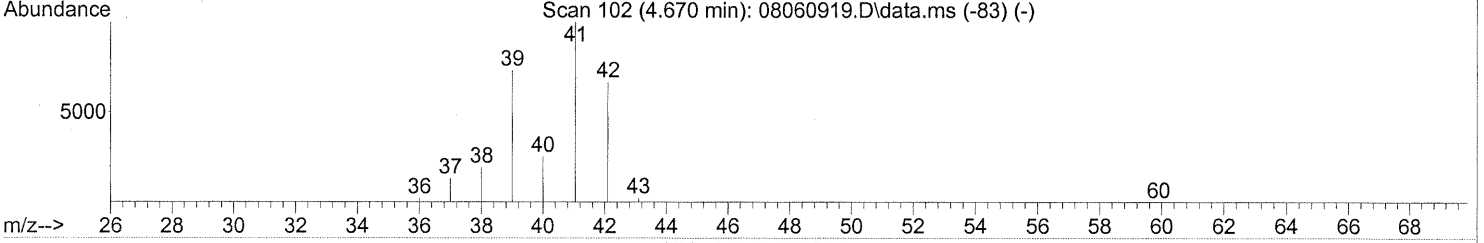
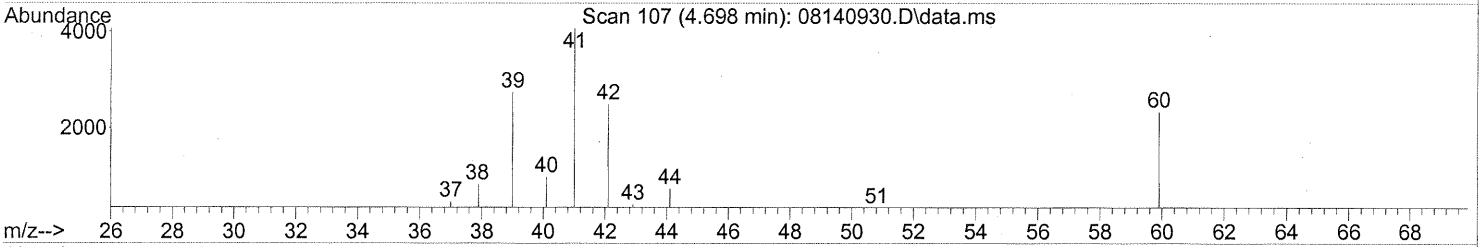
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Ion 42.10 (41.80 to 42.80): 08140930.D\data.ms
 Ion 39.10 (38.80 to 39.80): 08140930.D\data.ms
 Ion 41.10 (40.80 to 41.80): 08140930.D\data.ms



(2) Propene (T)

4.698min (+0.034) 0.57ng

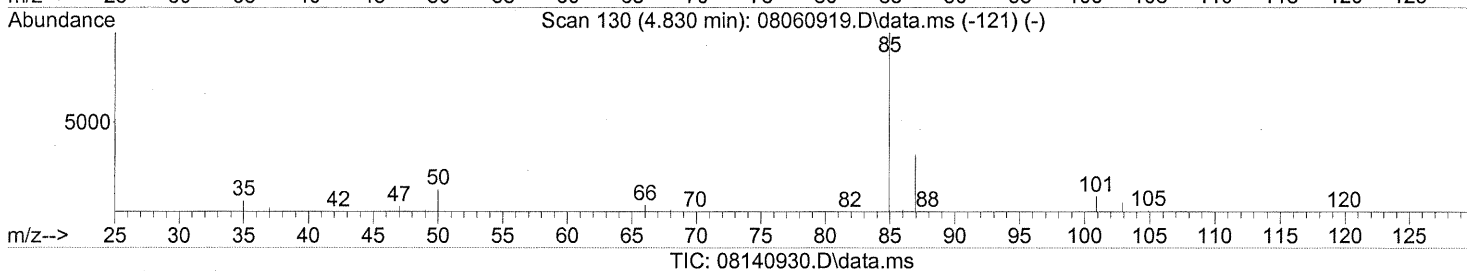
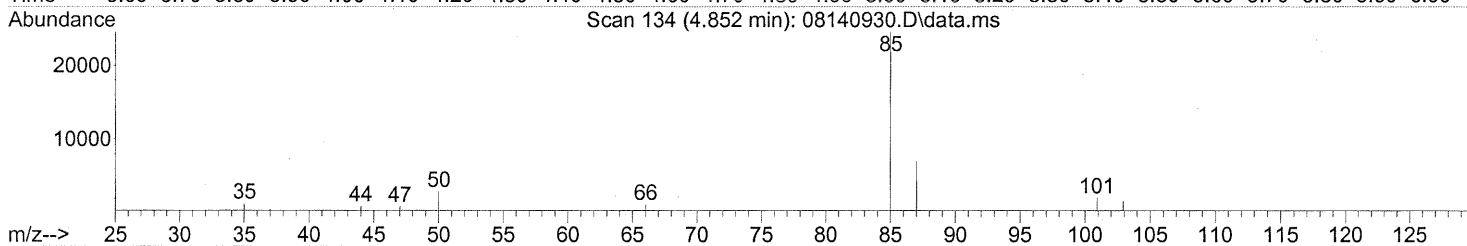
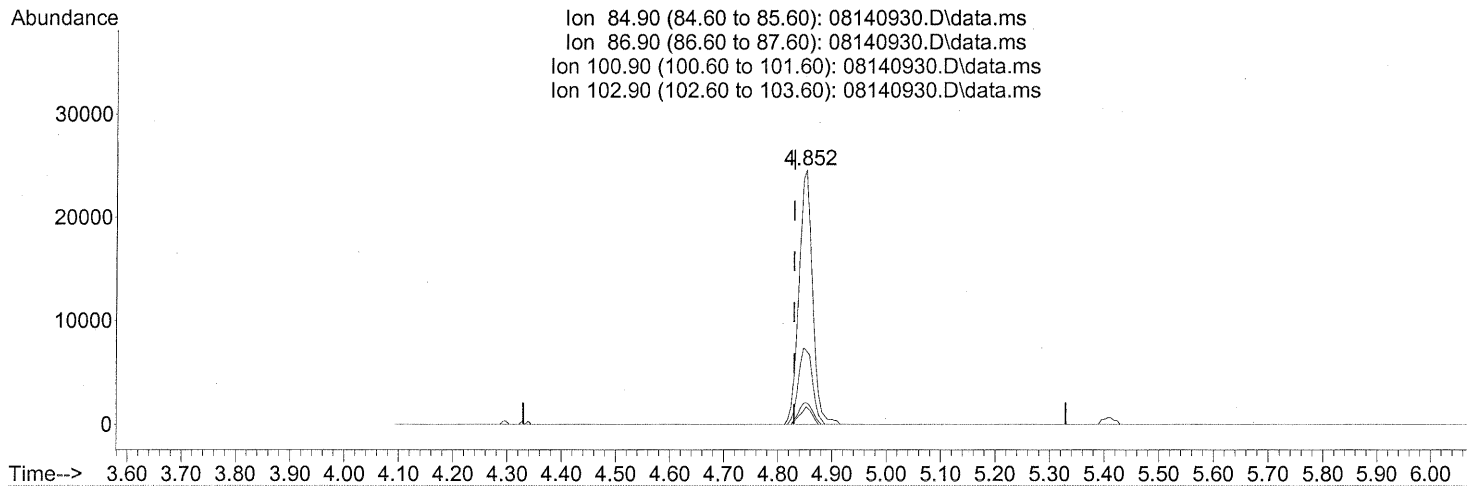
response 7580

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	150.08#
41.10	150.20	172.68#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
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 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.852min (+0.023) 2.00ng

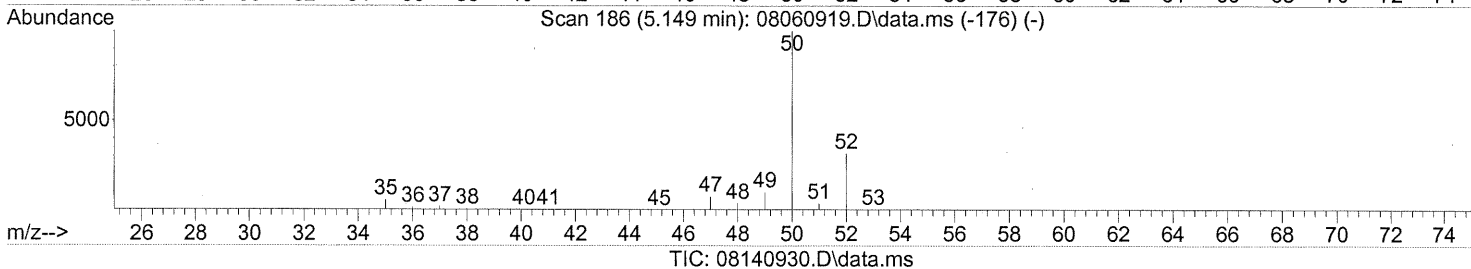
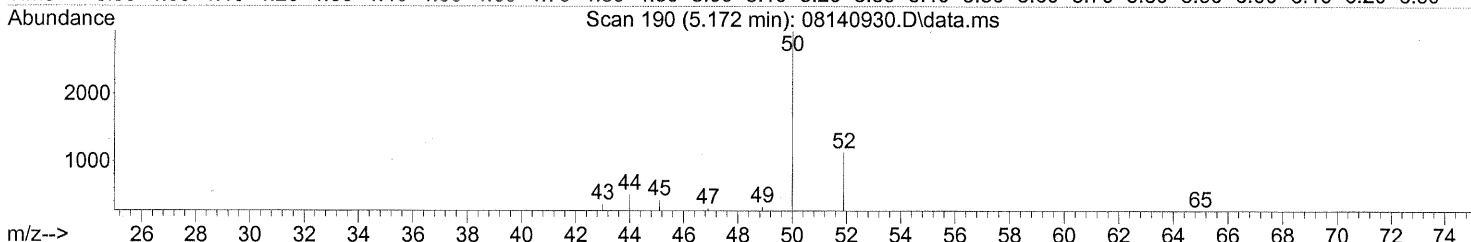
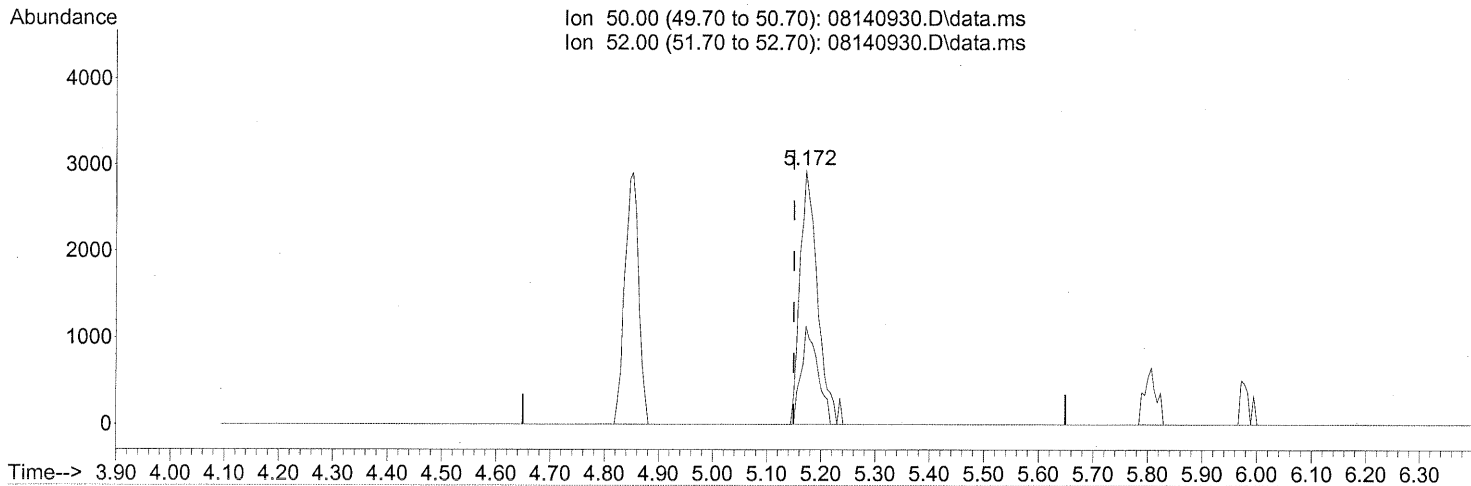
response 43230

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.26
100.90	8.80	8.81
102.90	5.20	6.06

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

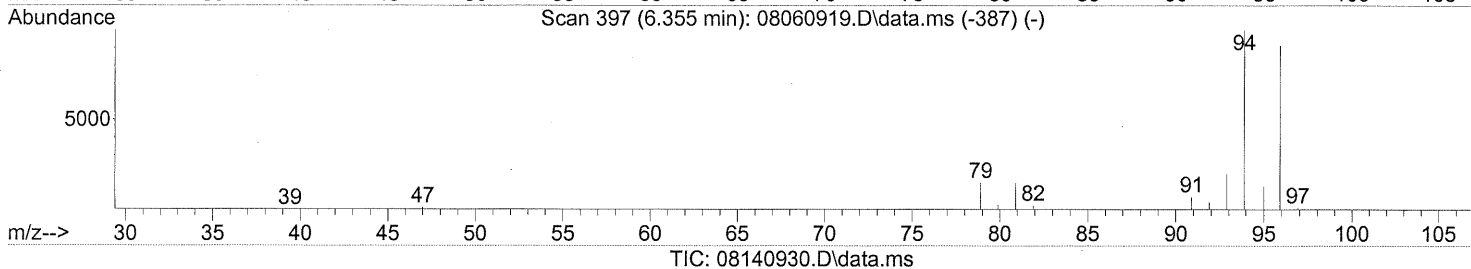
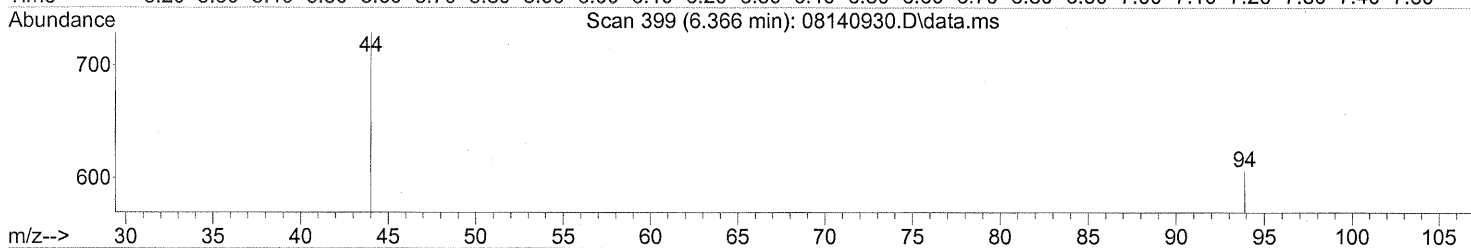
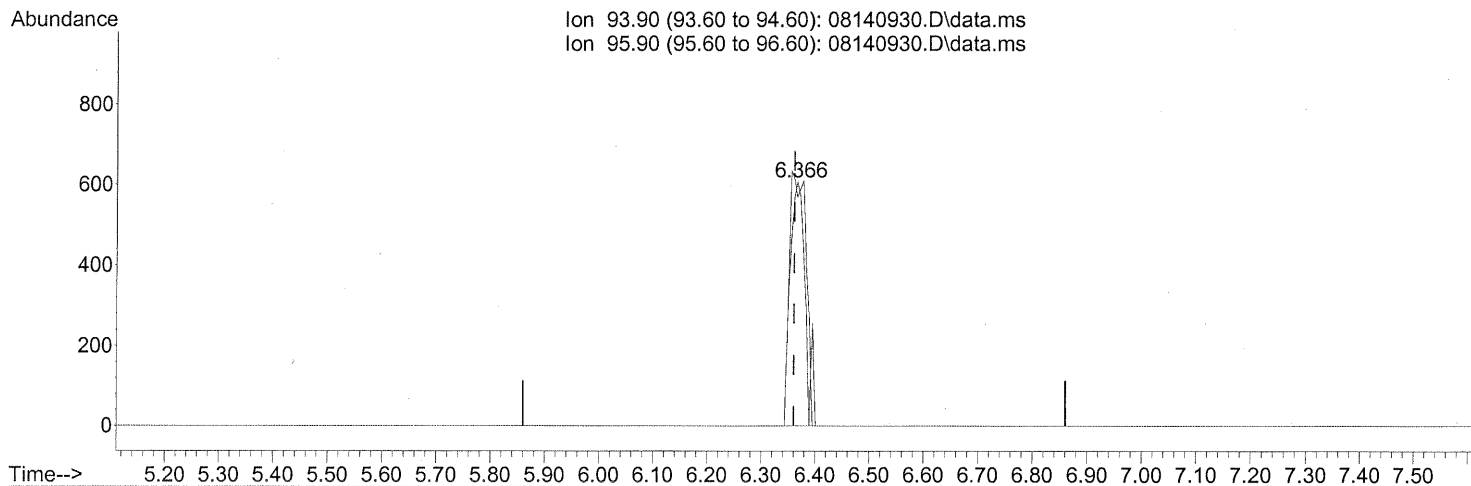
5.172min (+0.023) 0.45ng
 response 6539

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	36.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(8) Bromomethane (T)
 6.366min (+0.006) 0.14ng
 response 1186

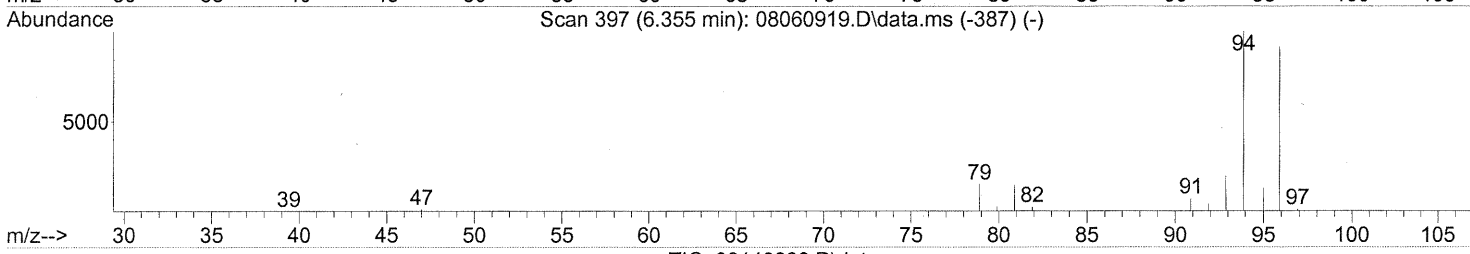
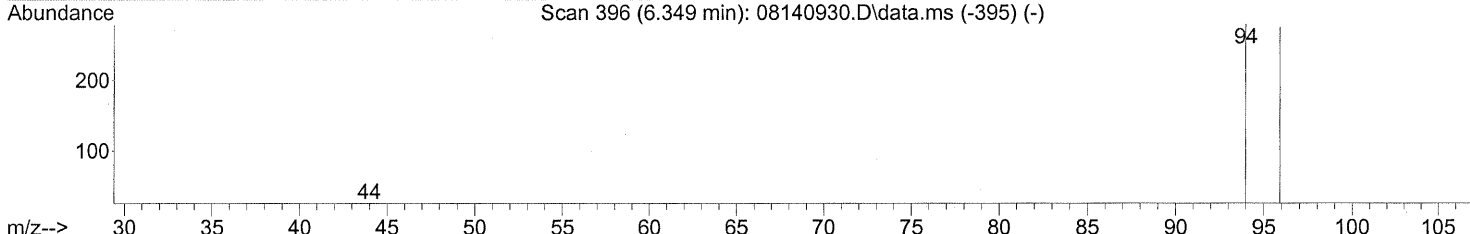
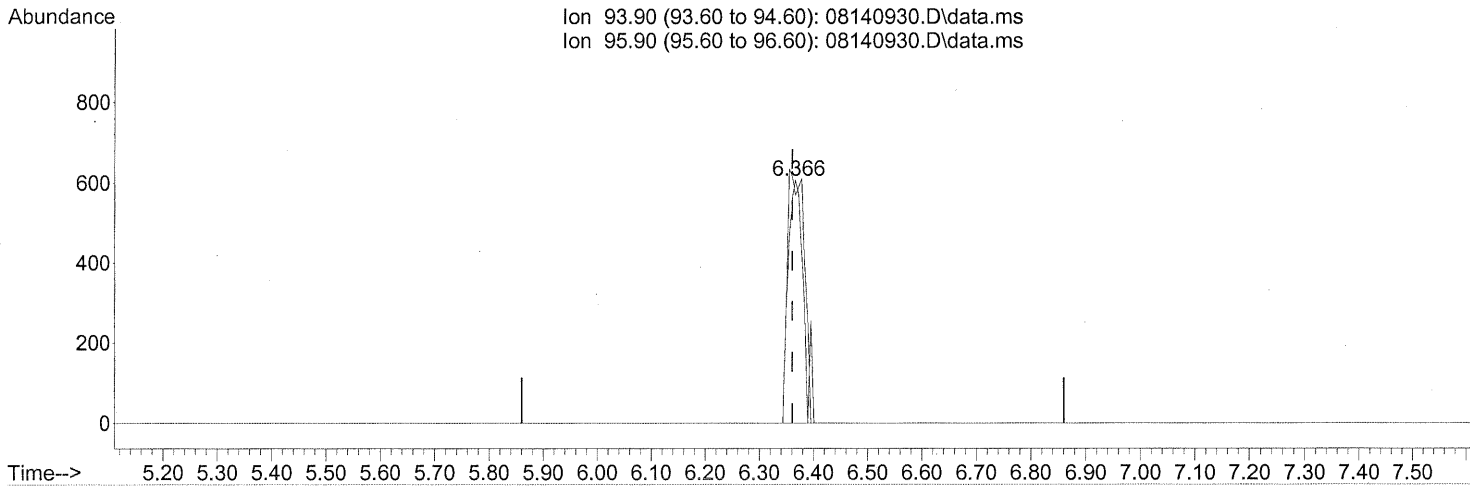
Ion	Exp%	Act%
93.90	100	100
95.90	92.80	114.25#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
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 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140930.D\data.ms

(8) Bromomethane (T)
 6.366min (+0.006) 0.14ng
 response 1186

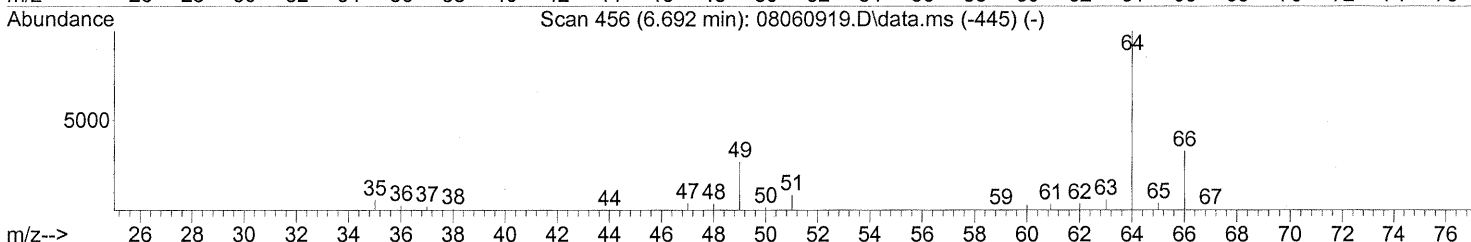
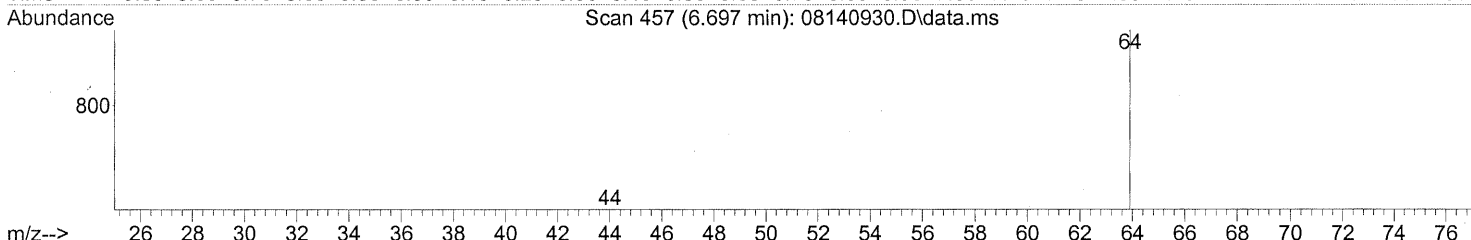
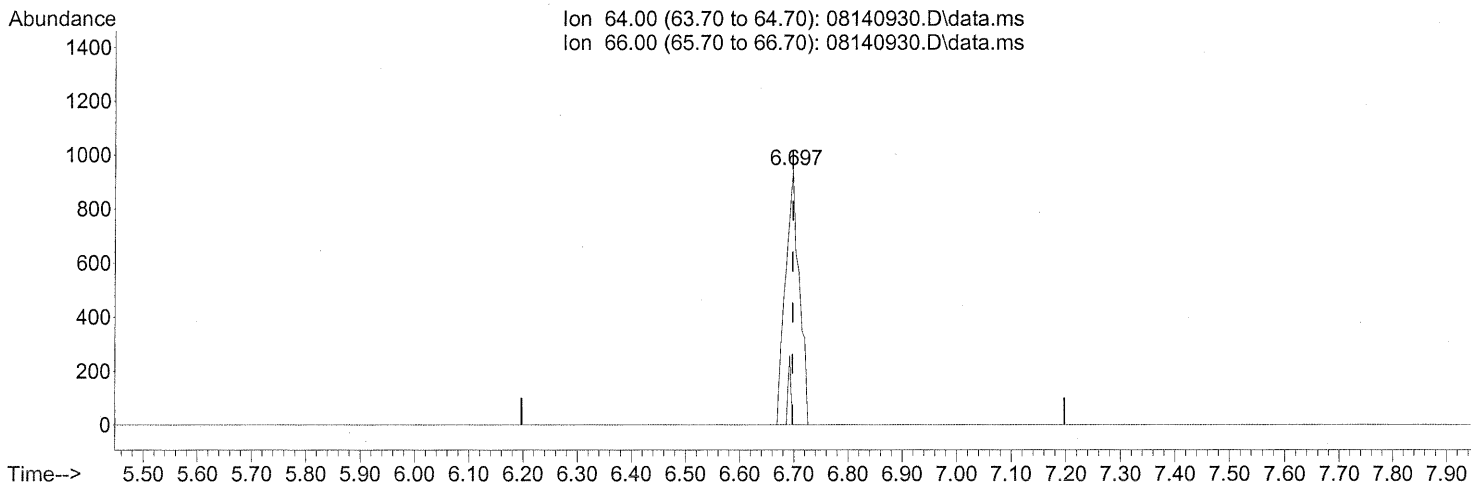
Ion	Exp%	Act%
93.90	100	100
95.90	92.80	114.25#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140930.D\data.ms

(9) Chloroethane (T)
 6.697min (+0.000) 0.21ng
 response 1672

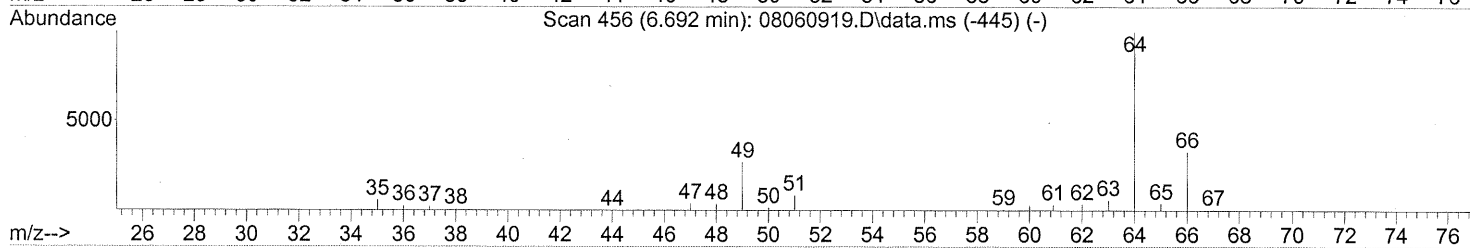
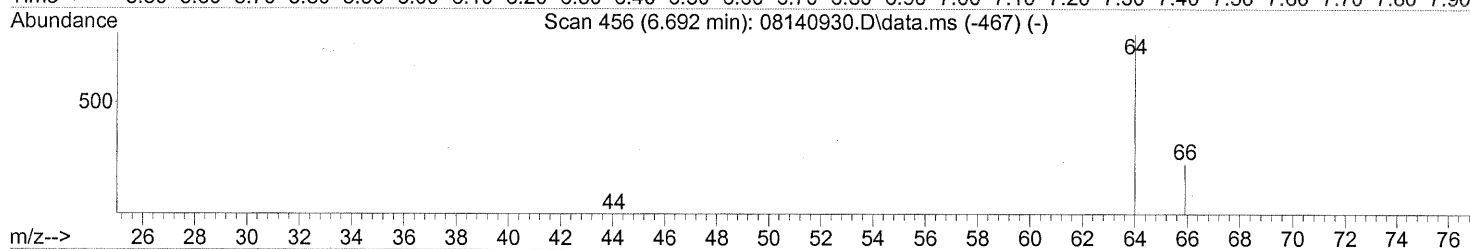
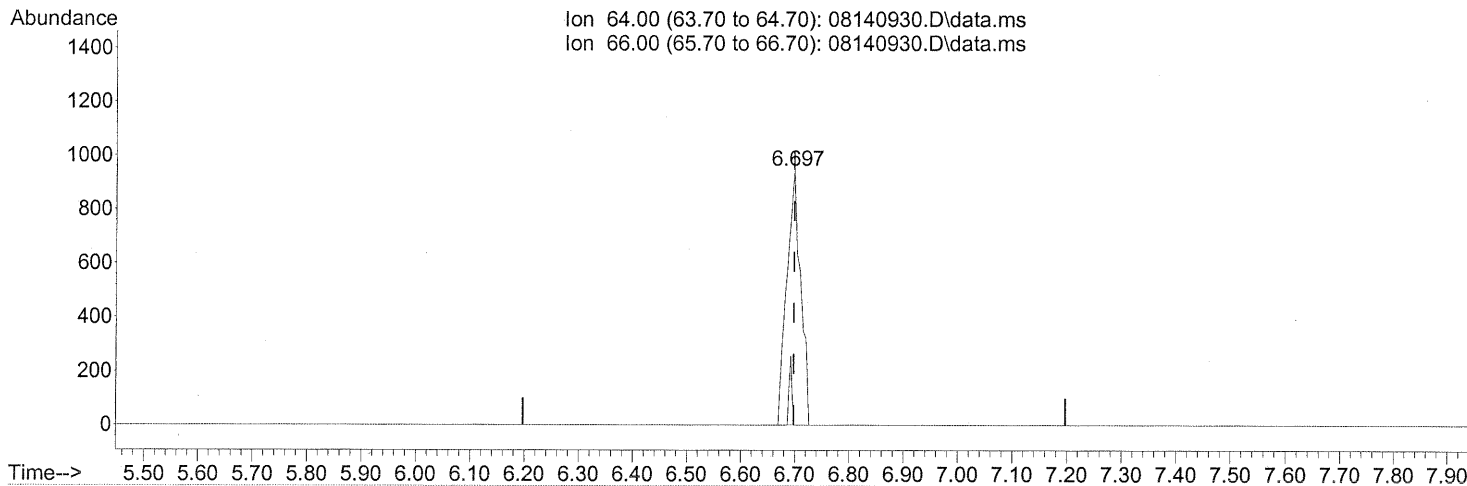
Ion	Exp%	Act%
64.00	100	100
66.00	33.40	5.26#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140930.D\data.ms

(9) Chloroethane (T)

6.697min (+0.000) 0.21ng

response 1672

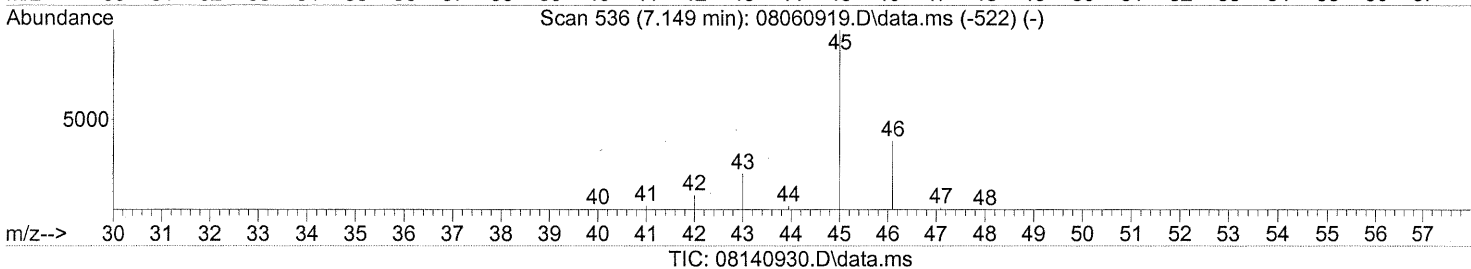
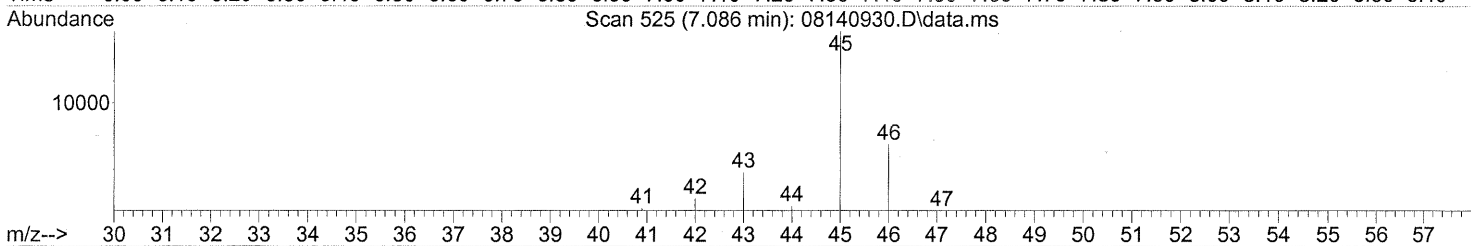
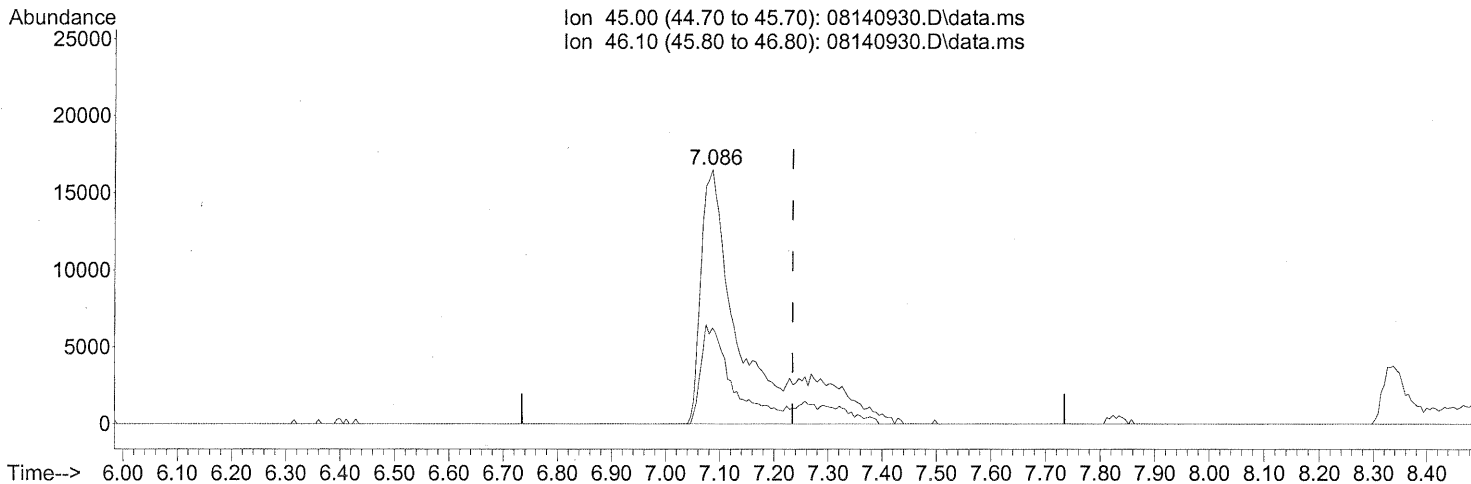
AFTER SUBTRACTION

Ion	Exp%	Act%
64.00	100	100
66.00	33.40	5.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.086min (-0.148) 11.06ng

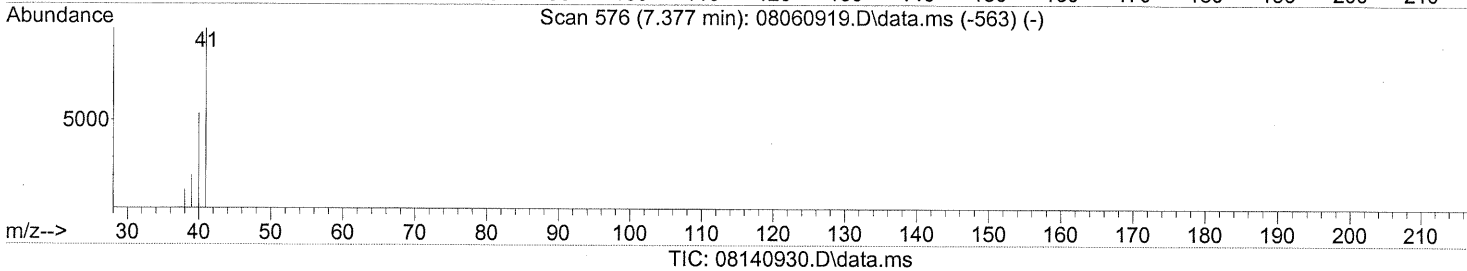
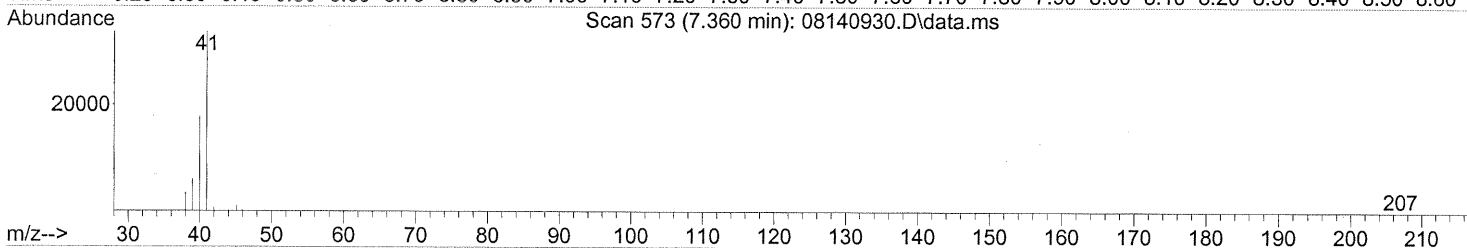
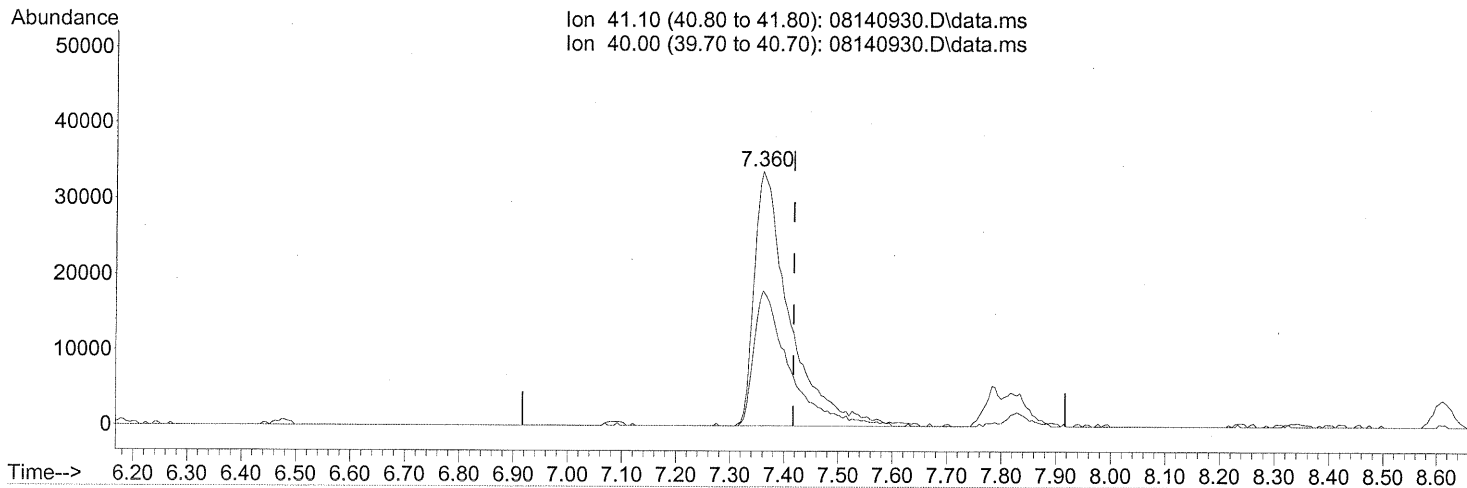
response 92872

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140930.D
Acq On : 15 Aug 2009 2:20
Operator : WA
Sample : P0902721-009 (1000mL)
Misc : Env. Health & Engineering 99954
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(11) Acetonitrile (T)

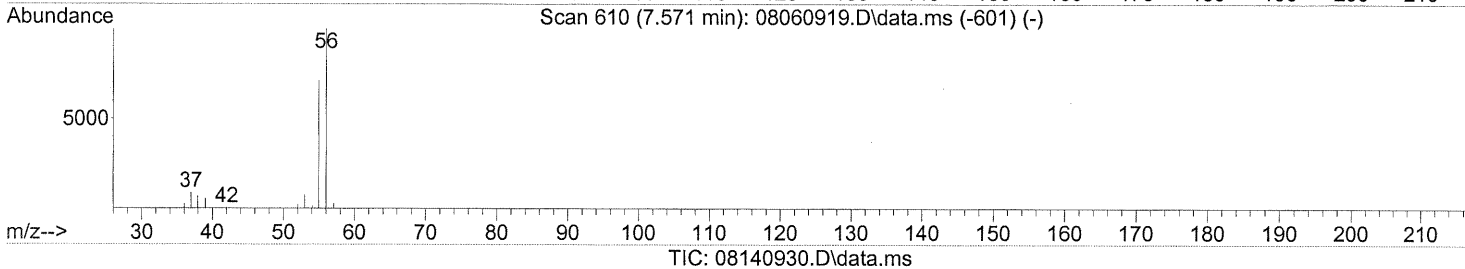
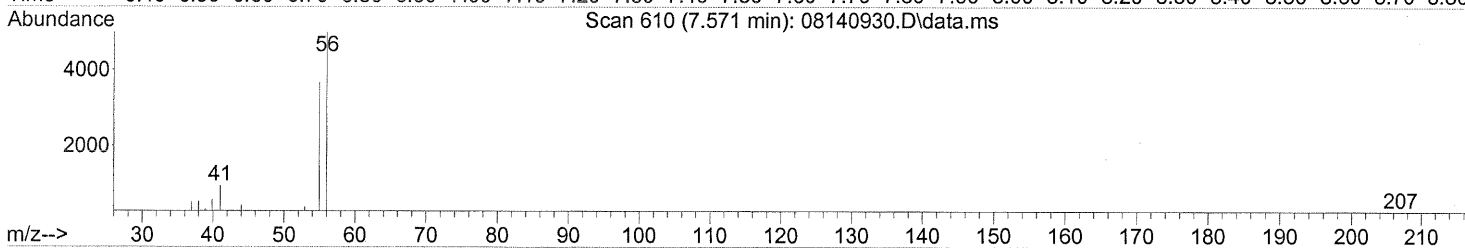
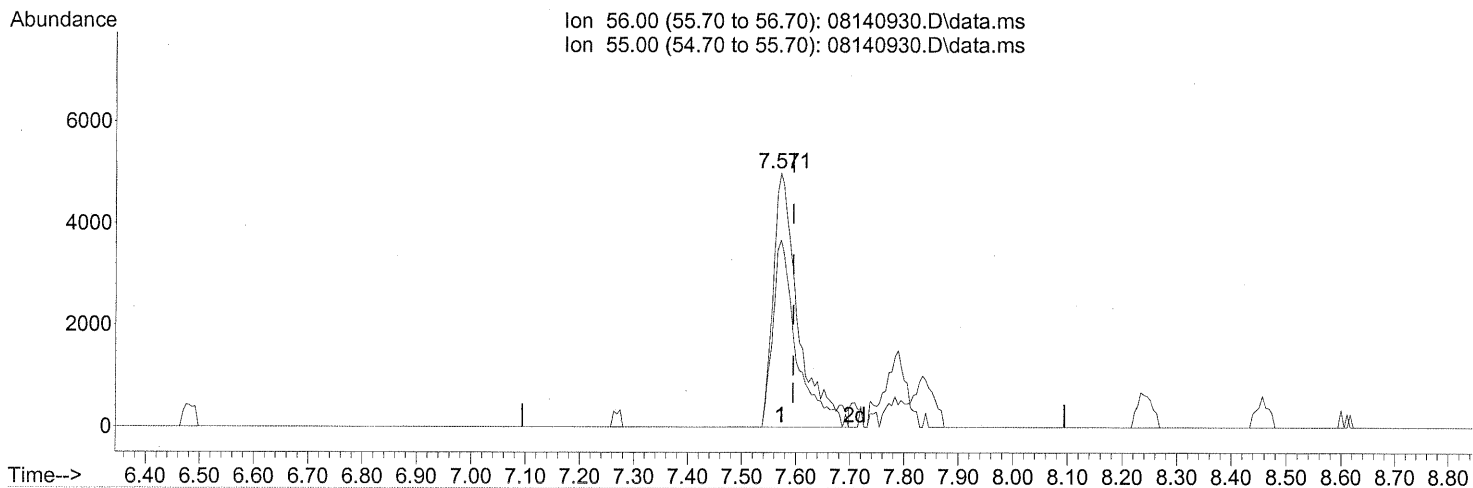
7.360min (-0.057) 6.21ng
response 152719

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.571min (-0.023) 2.53ng

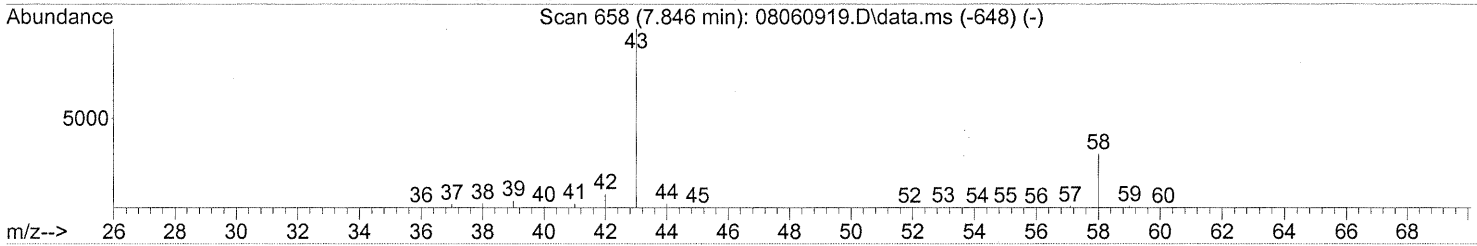
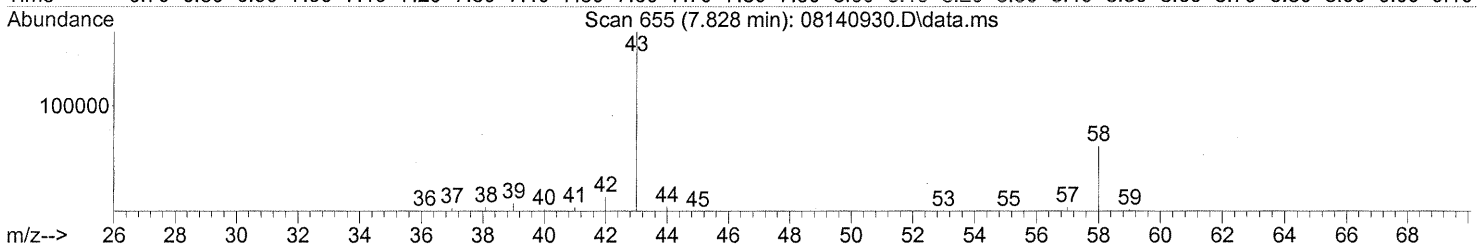
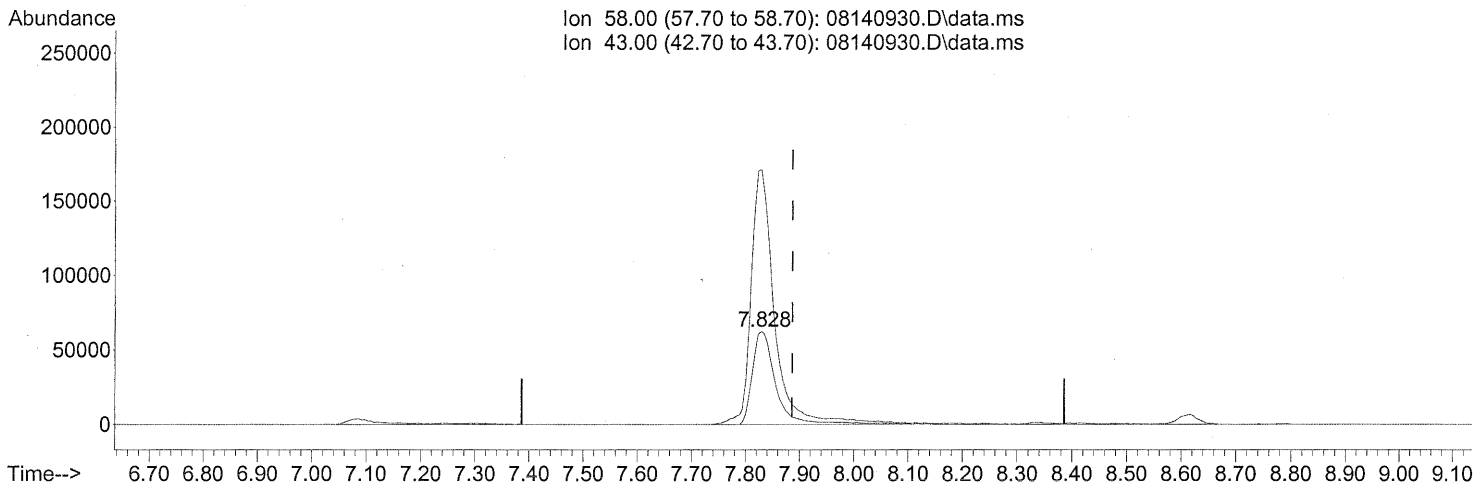
response 16186

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	69.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140930.D\data.ms

(13) Acetone (T)

7.828min (-0.058) 23.66ng

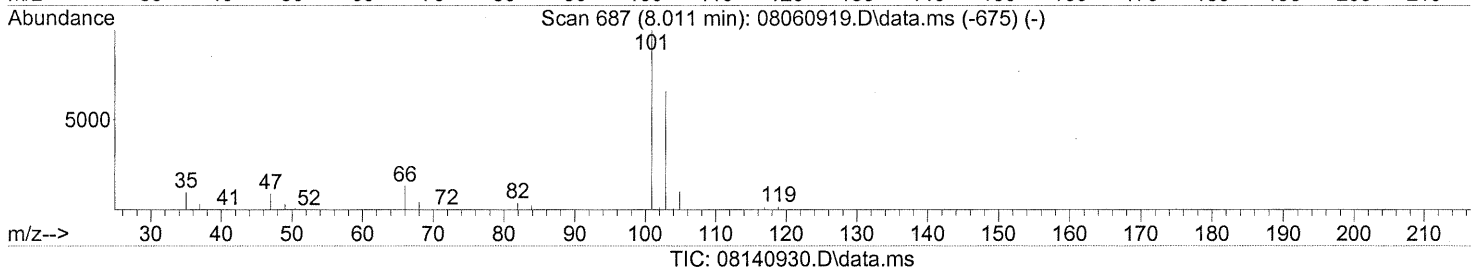
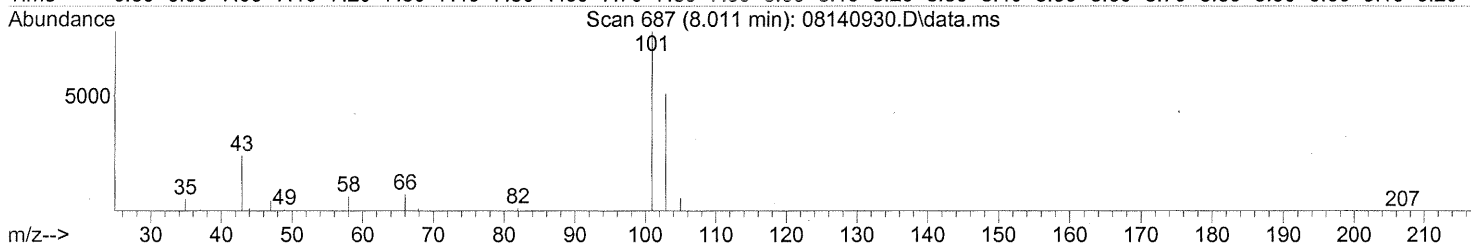
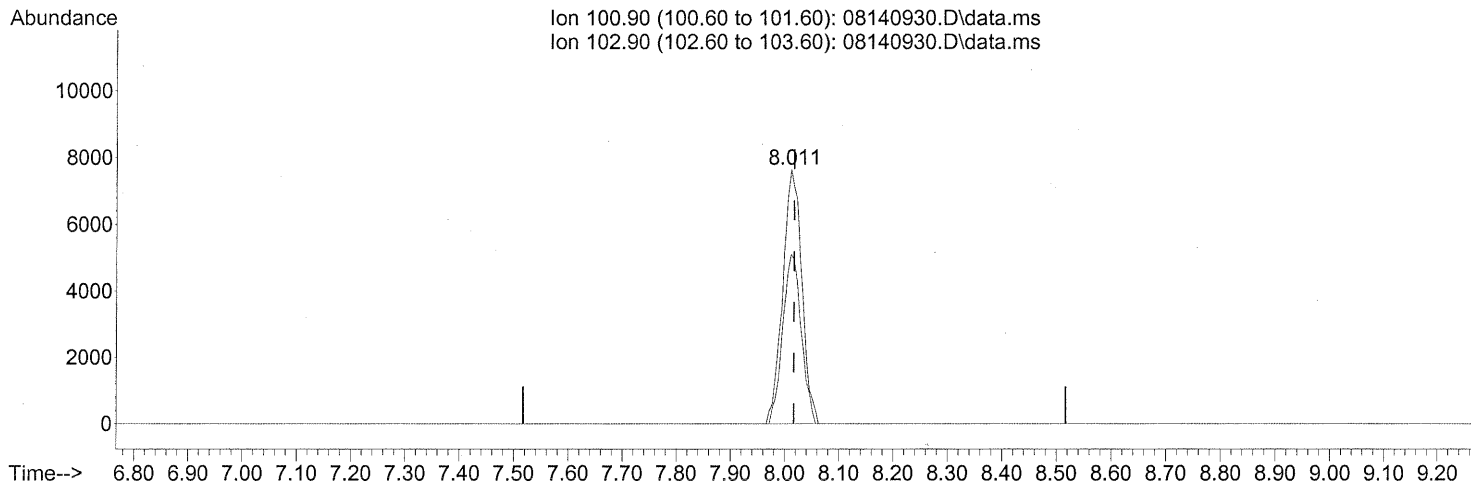
response 187495

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	278.43#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.011min (-0.006) 0.95ng

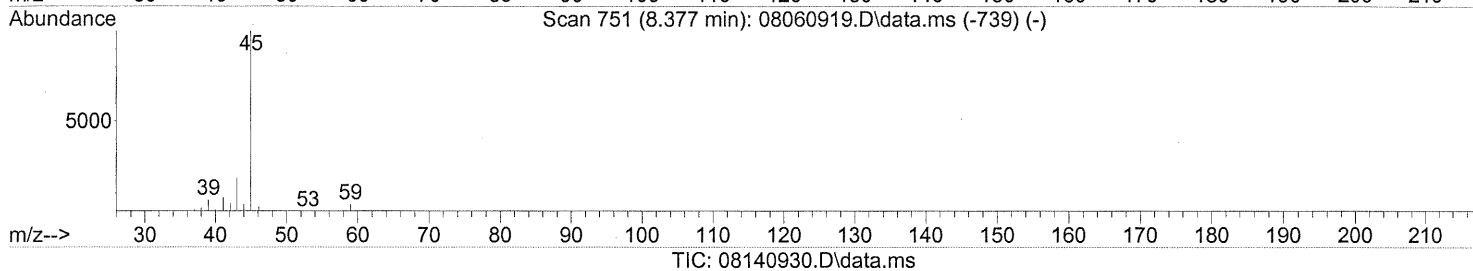
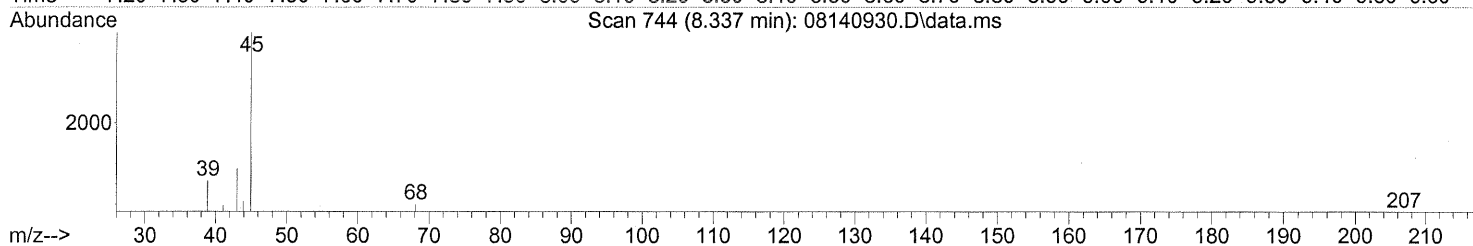
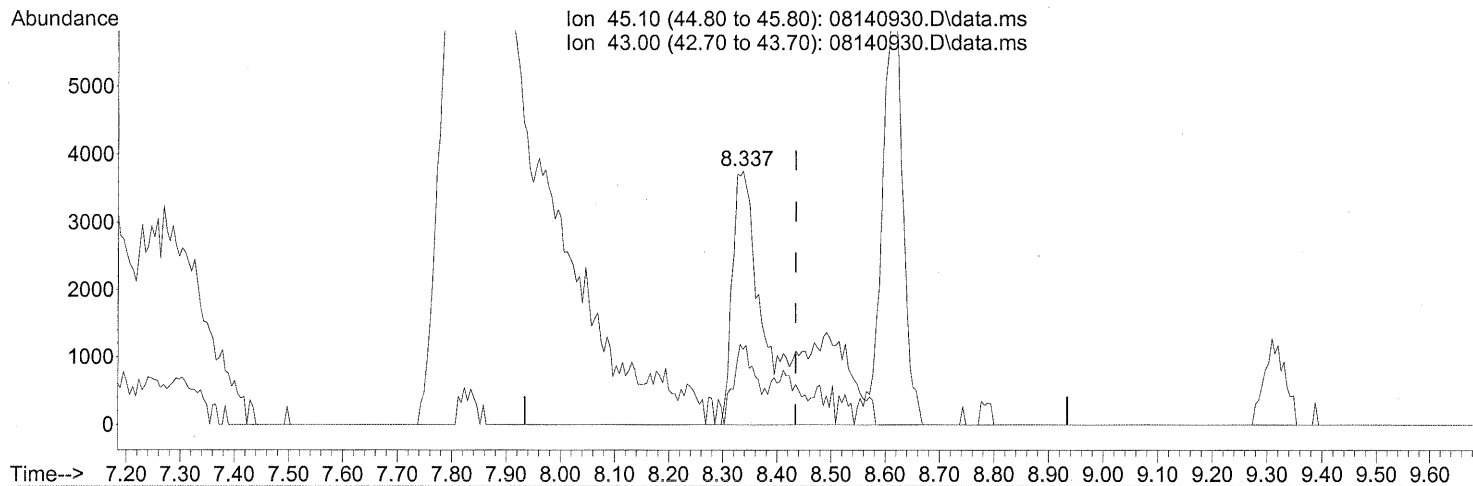
response 18645

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140930.D
Acq On : 15 Aug 2009 2:20
Operator : WA
Sample : P0902721-009 (1000mL)
Misc : Env. Health & Engineering 99954
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.337min (-0.097) 0.72ng

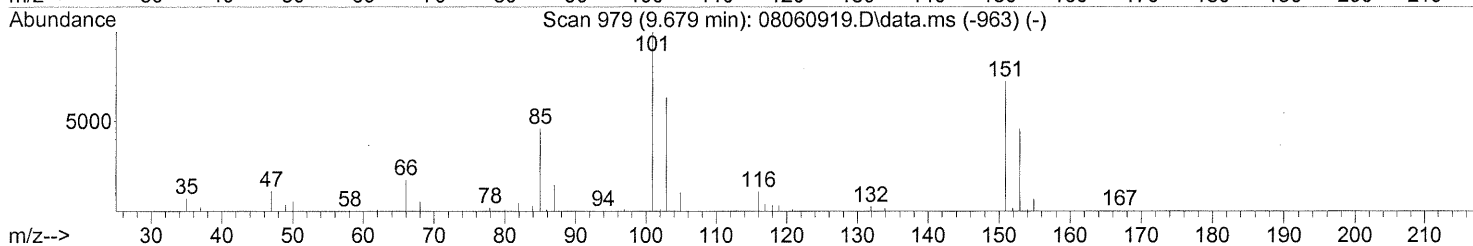
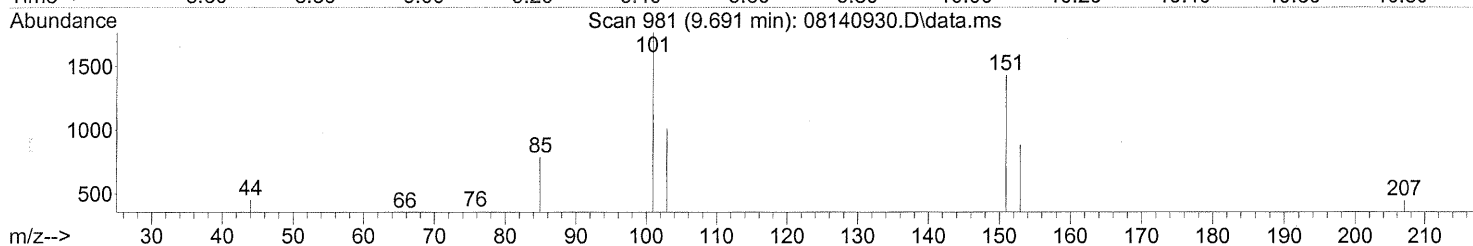
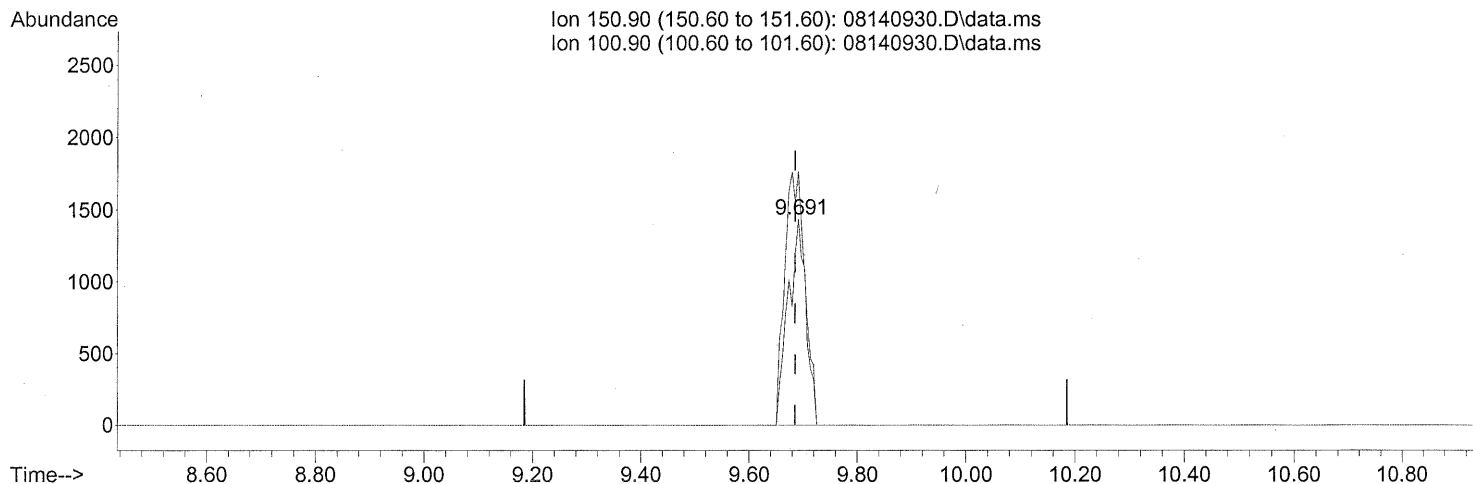
response 22555

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	15.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140930.D
Acq On : 15 Aug 2009 2:20
Operator : WA
Sample : P0902721-009 (1000mL)
Misc : Env. Health & Engineering 99954
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08140930.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.691min (+0.006) 0.46ng

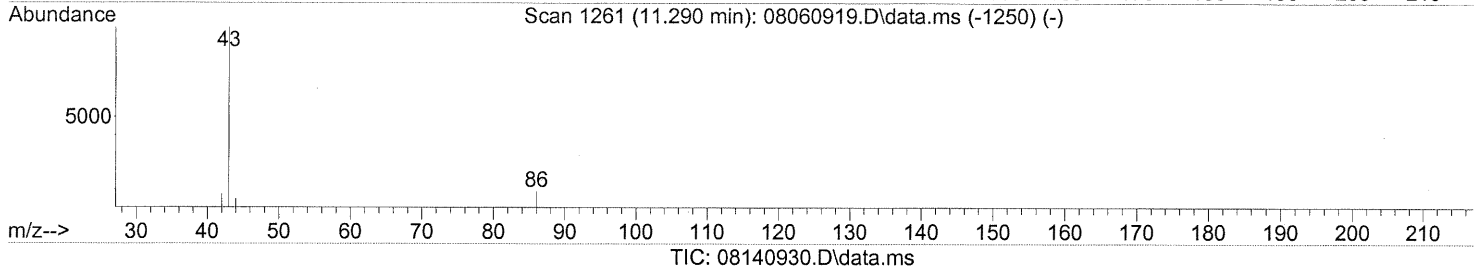
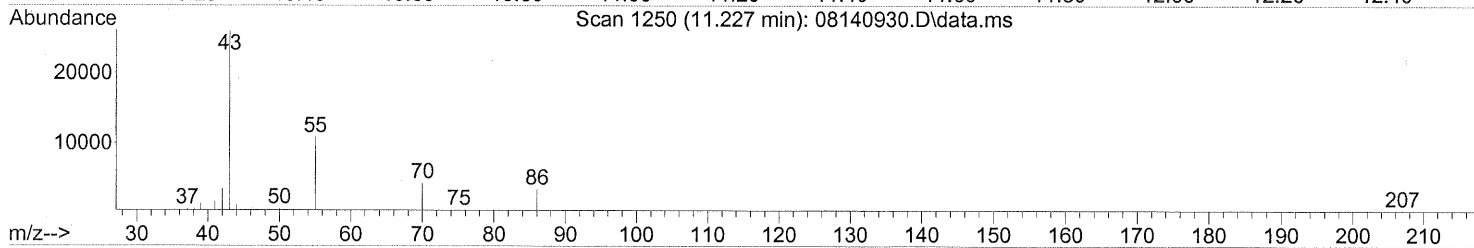
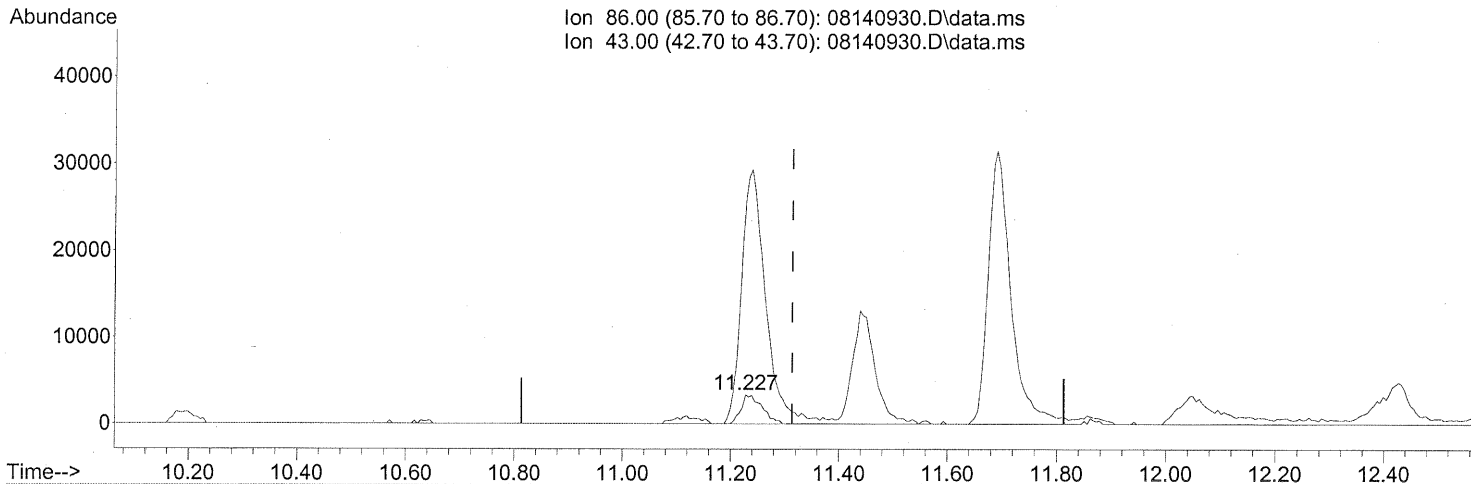
response 3276

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	139.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.227min (-0.086) 5.55ng

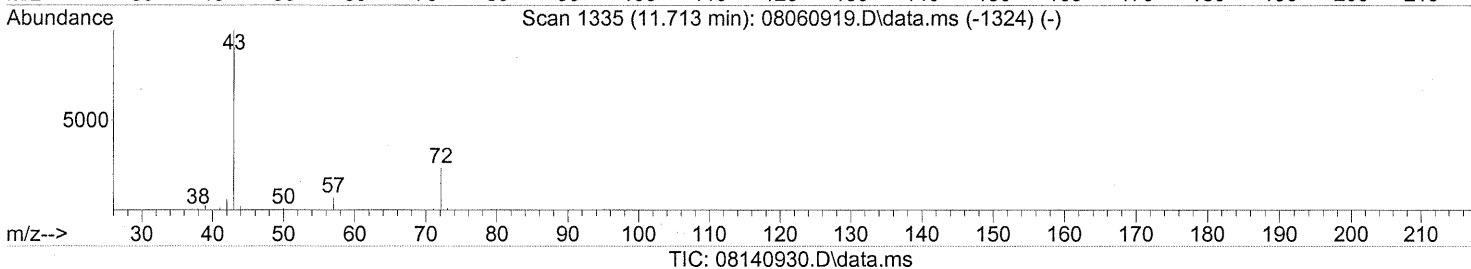
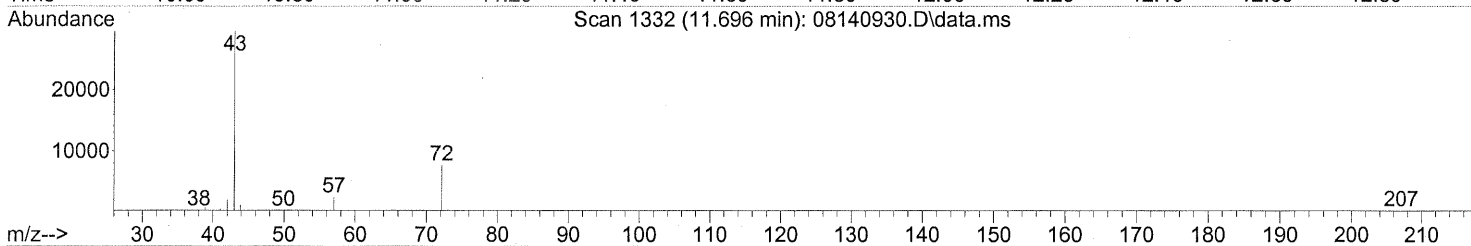
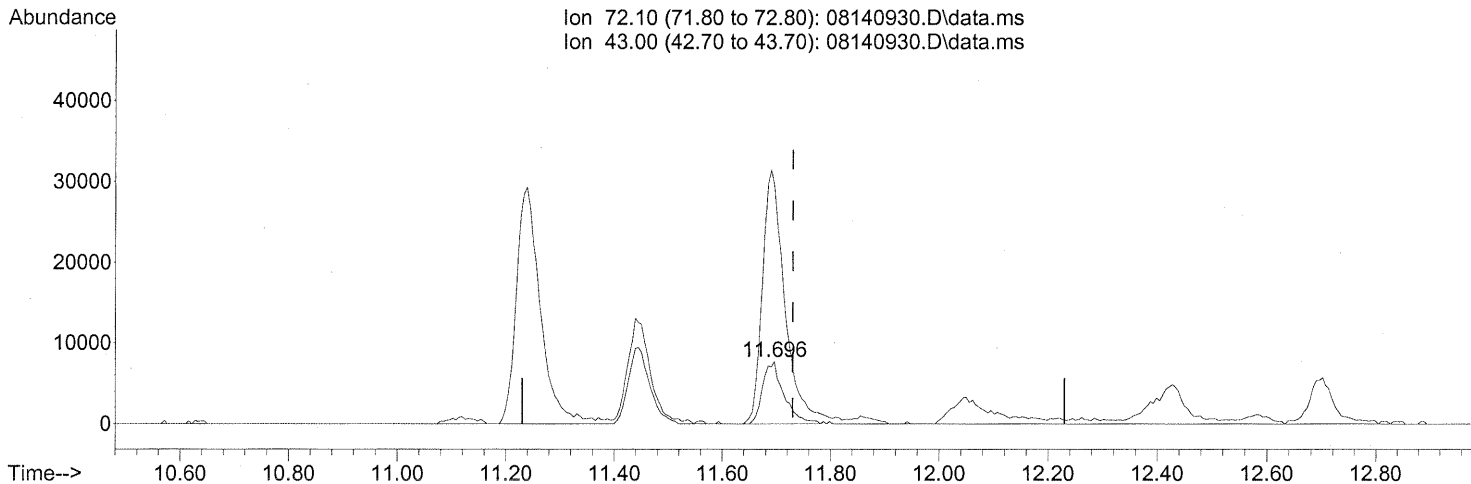
response 8944

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1018.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.696min (-0.034) 2.92ng

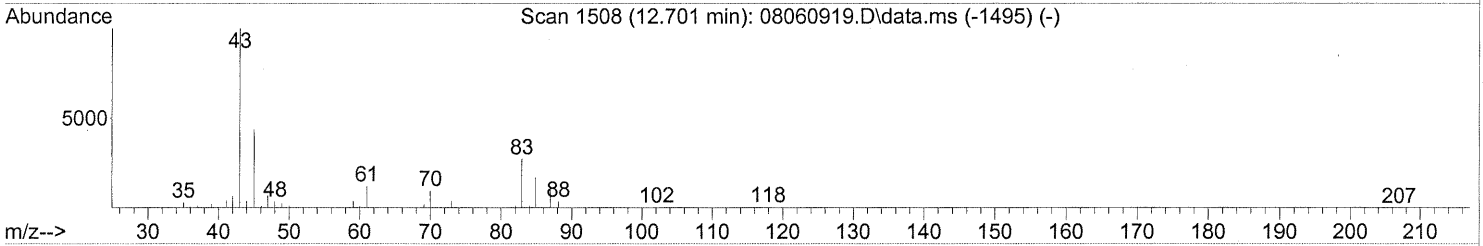
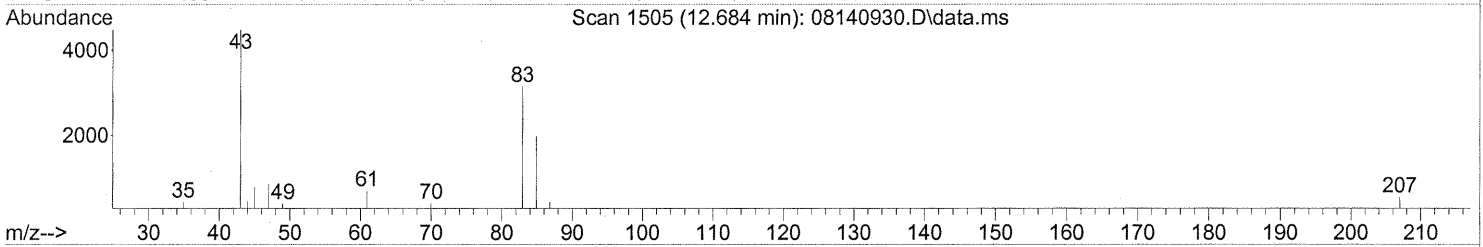
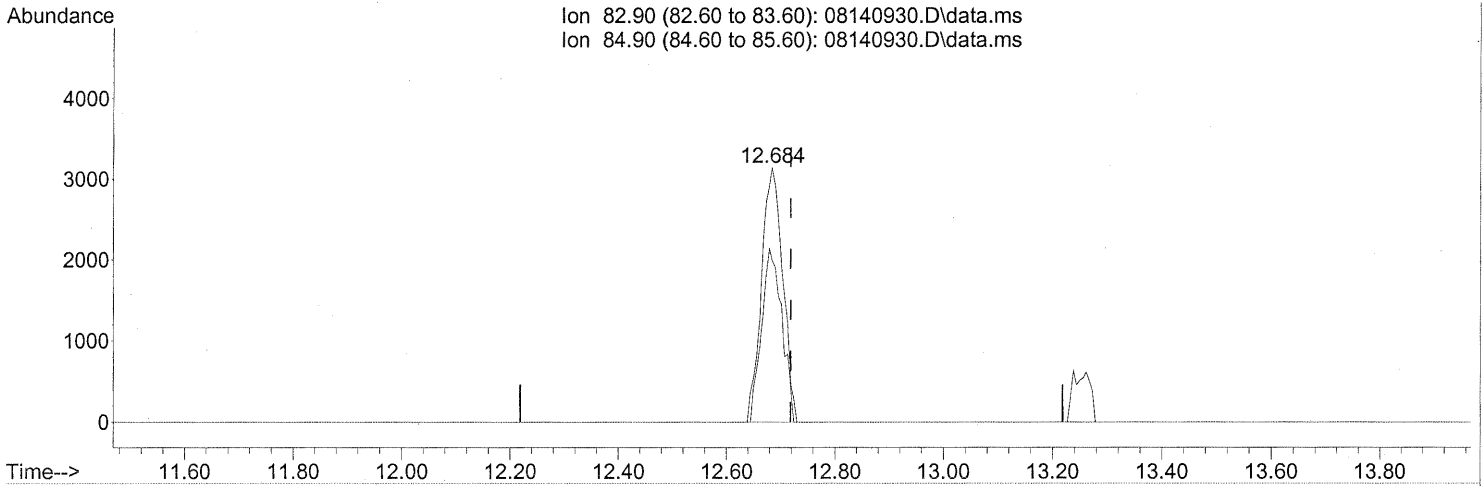
response 20920

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	441.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140930.D\data.ms

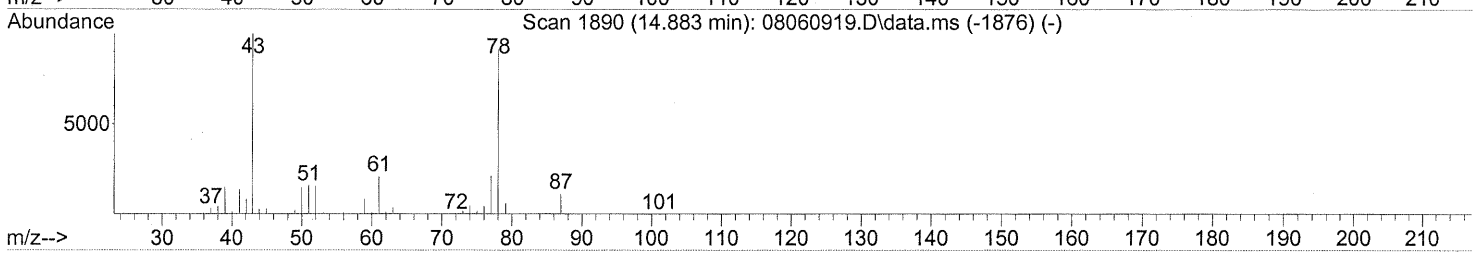
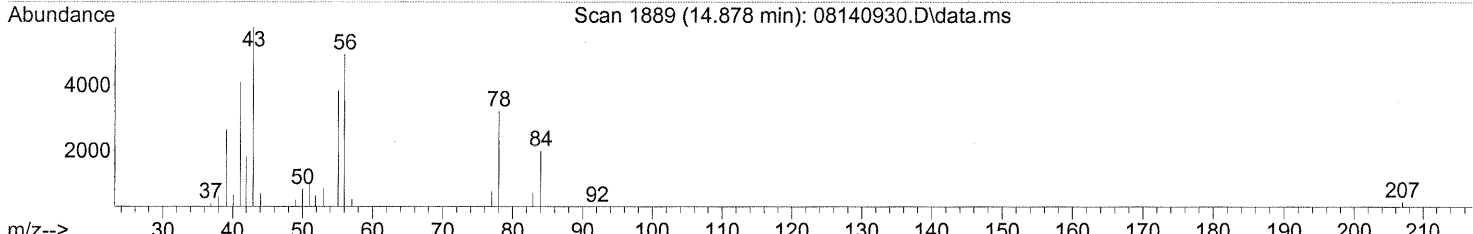
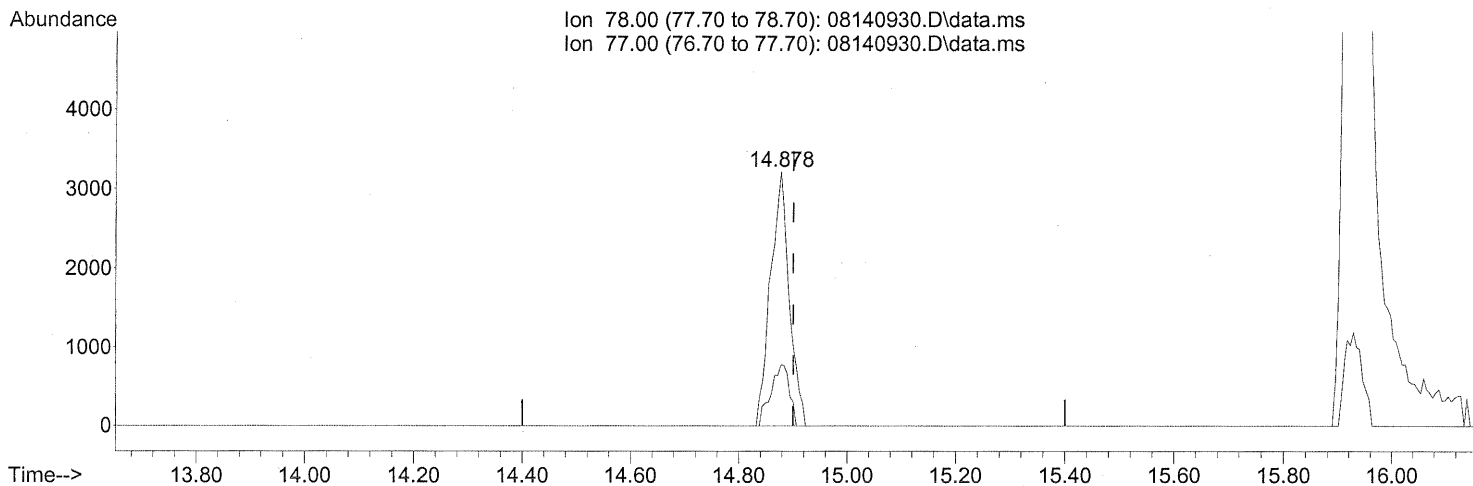
(32) Chloroform (T)
 12.684min (-0.034) 0.51ng
 response 8536

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	65.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
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 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



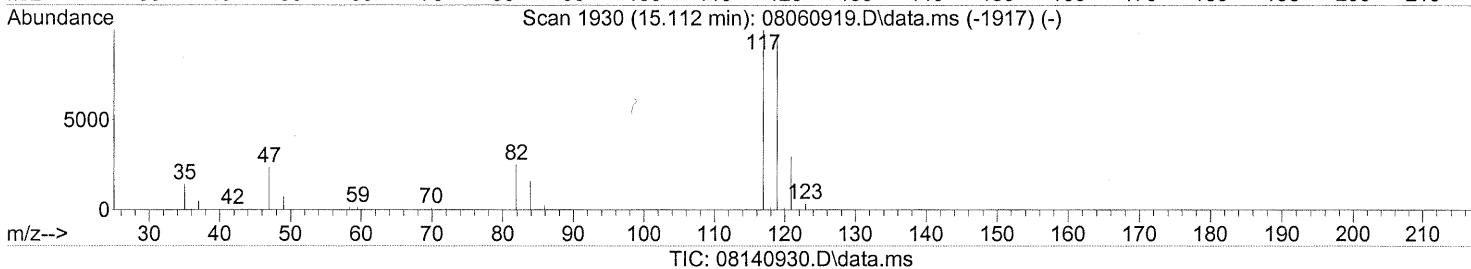
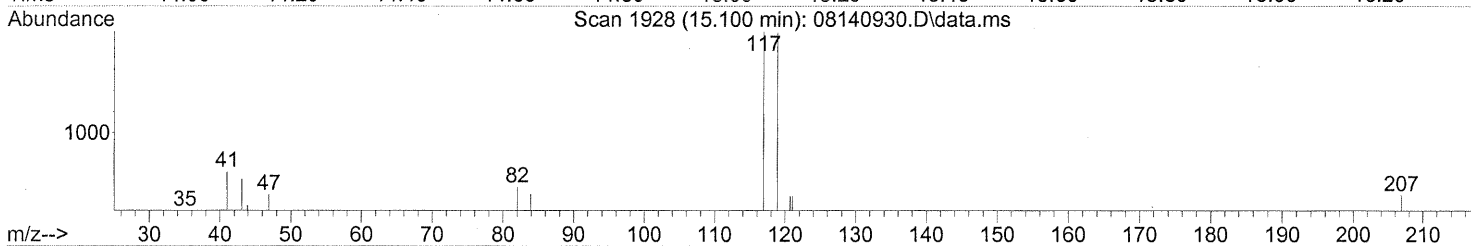
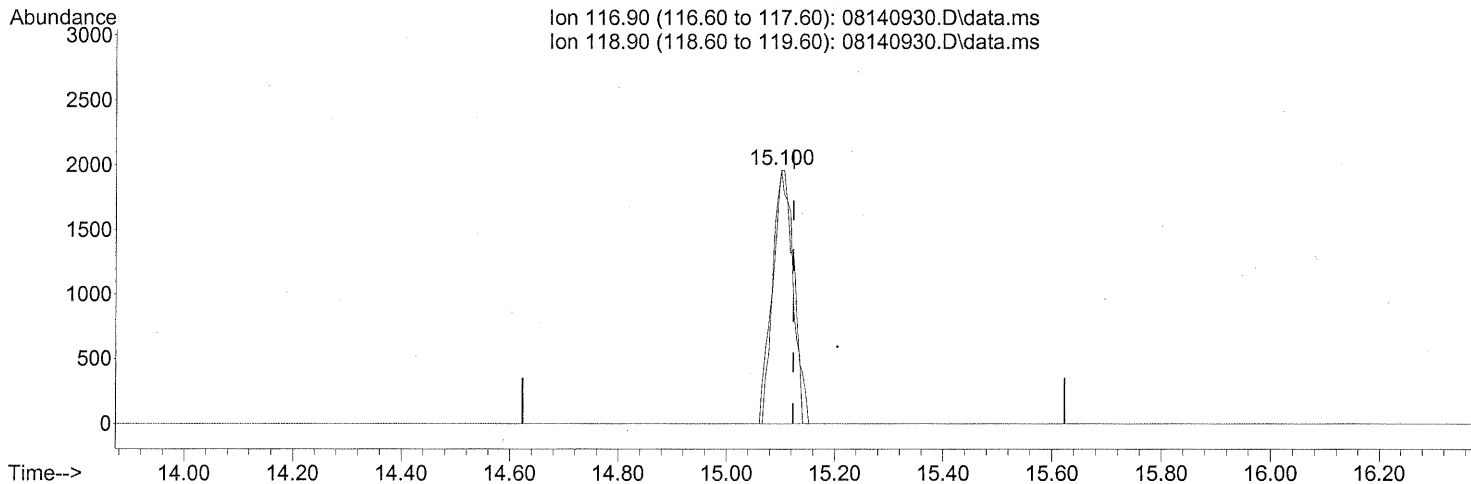
(41) Benzene (T)
 14.878min (-0.023) 0.18ng
 response 7744

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : 08140930.D
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 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.38ng

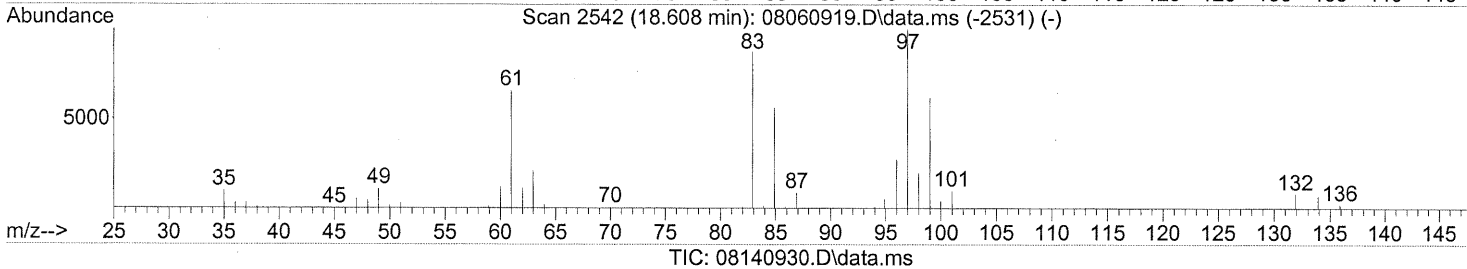
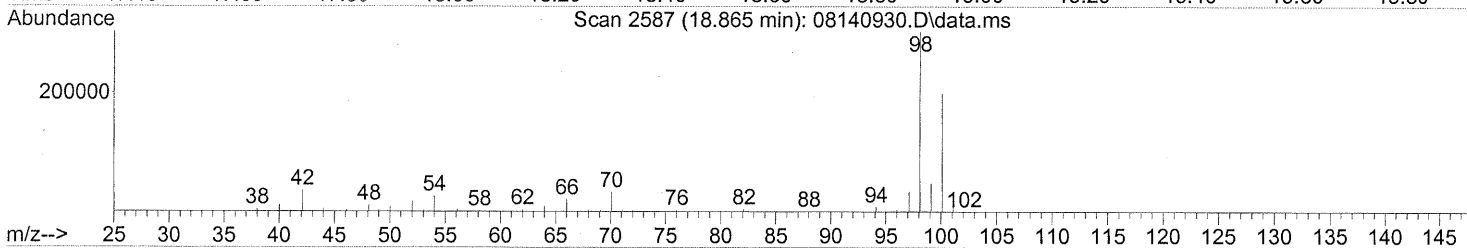
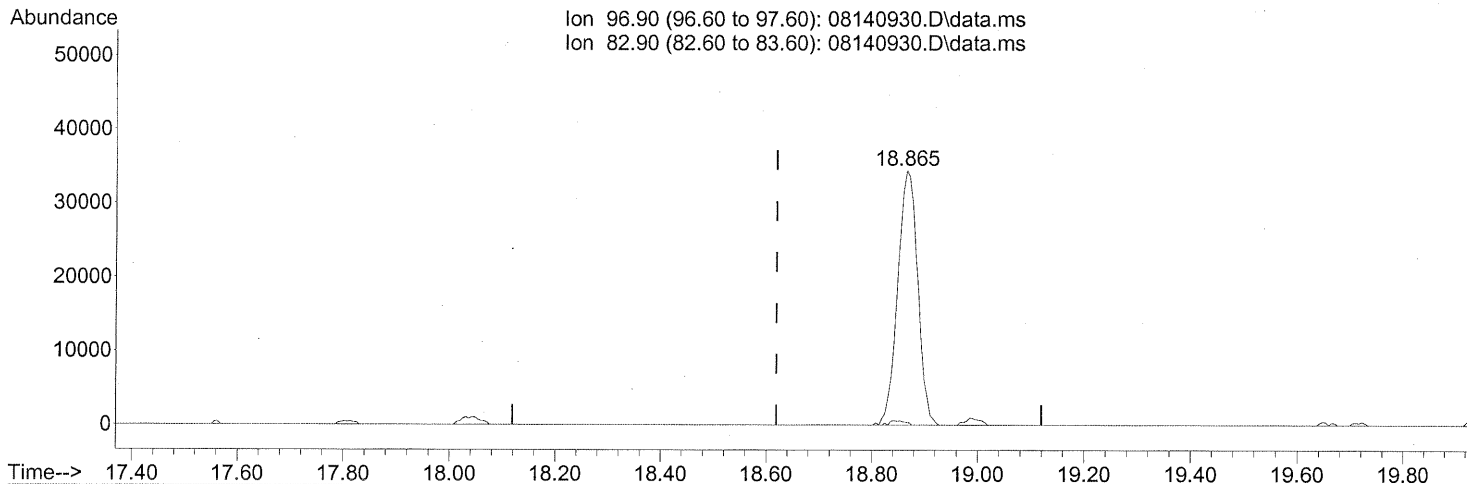
response 5209

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	99.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140930.D
Acq On : 15 Aug 2009 2:20
Operator : WA
Sample : P0902721-009 (1000mL)
Misc : Env. Health & Engineering 99954
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.63ng

response 90404

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

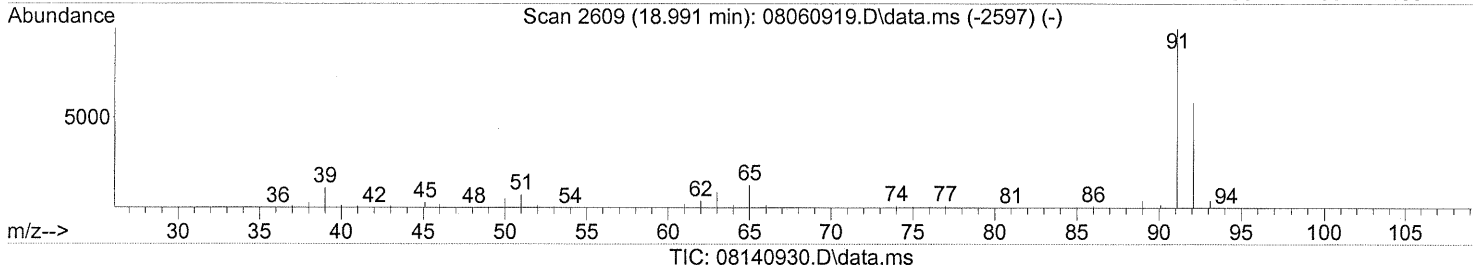
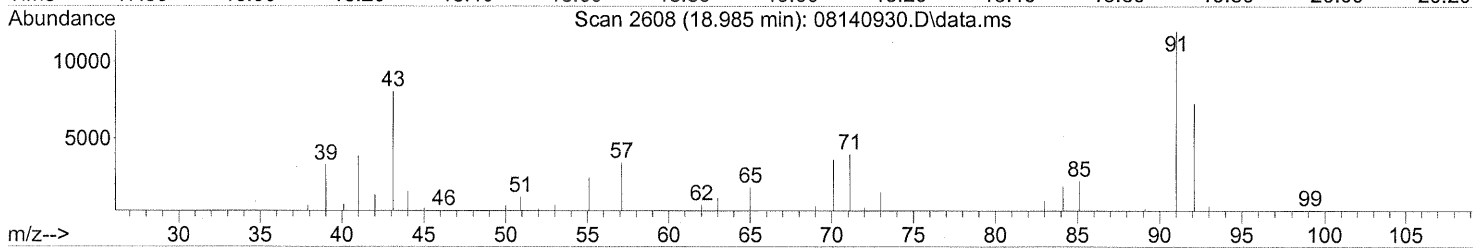
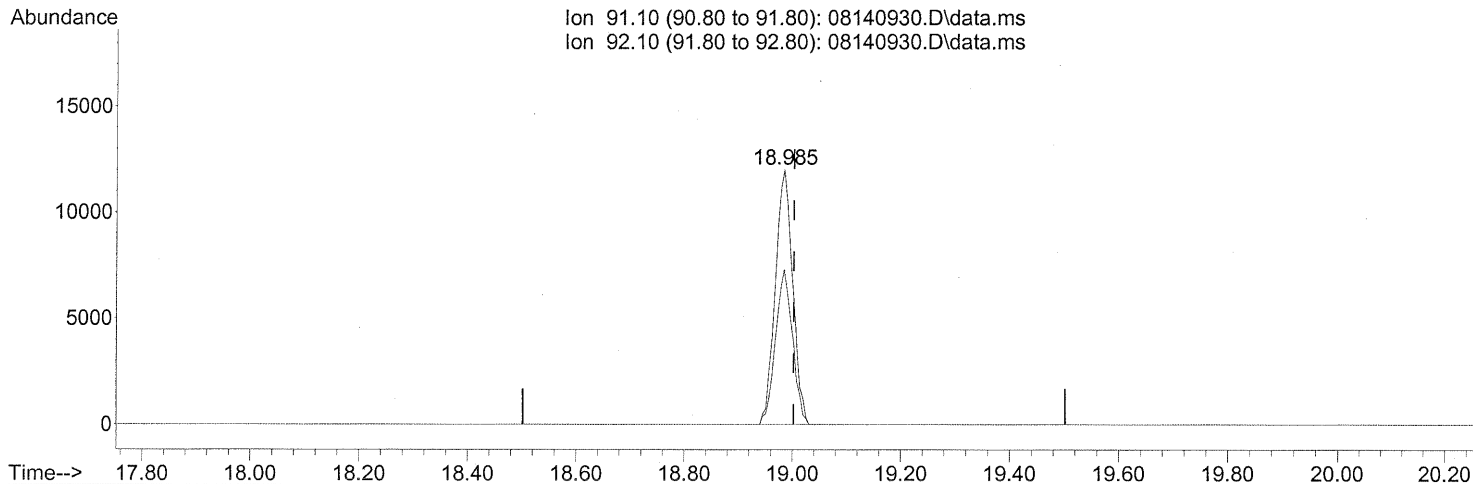
FP UR 8/20/09

R 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140930.D
Acq On : 15 Aug 2009 2:20
Operator : WA
Sample : P0902721-009 (1000mL)
Misc : Env. Health & Engineering 99954
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 0.66ng

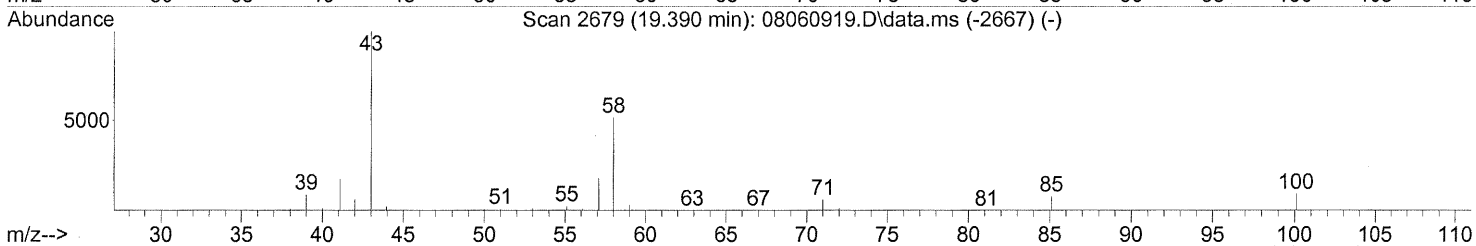
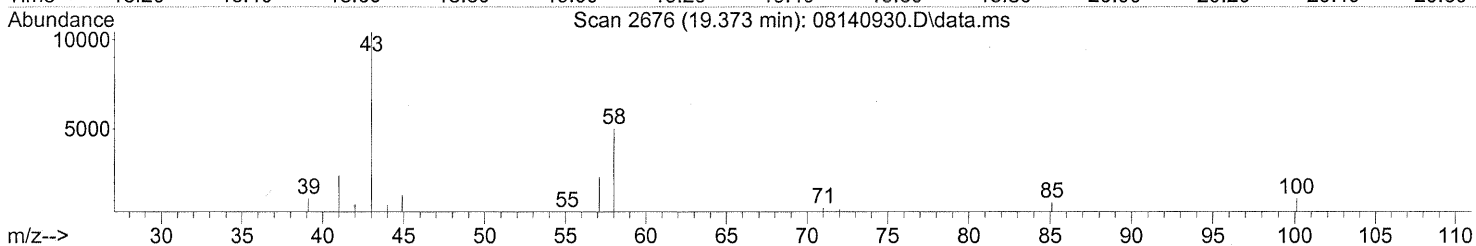
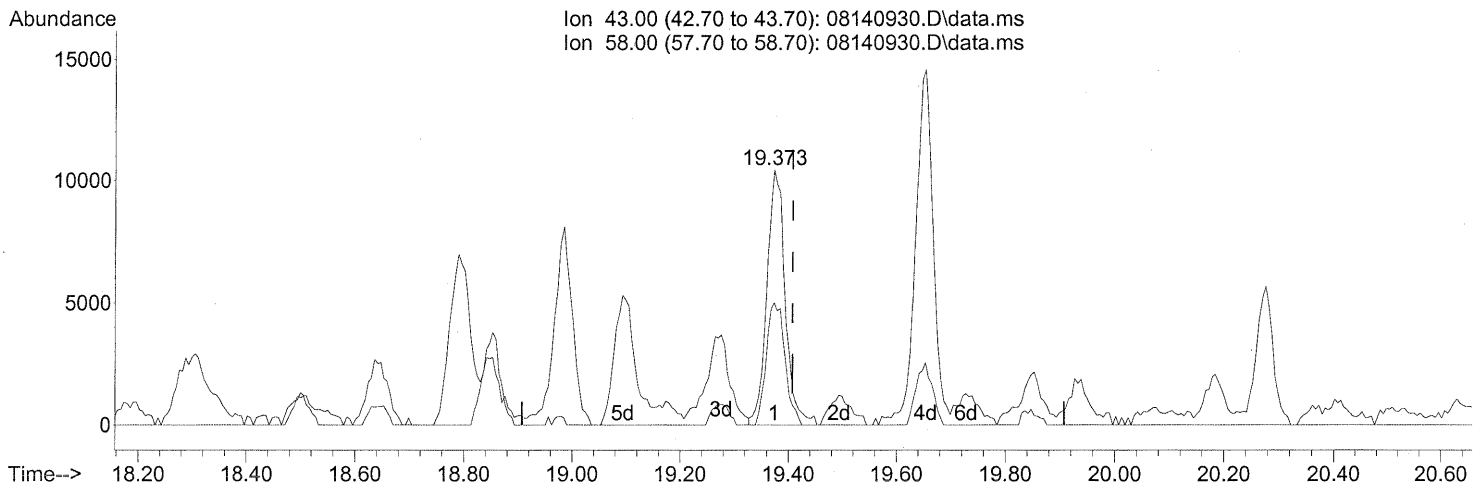
response 26868

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140930.D\data.ms

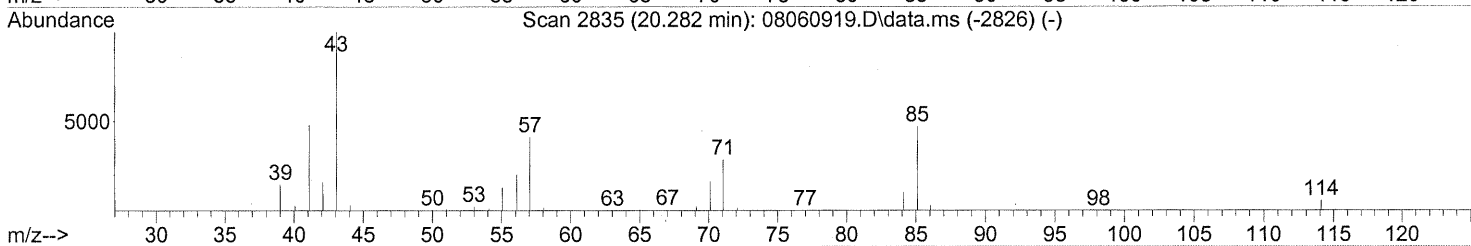
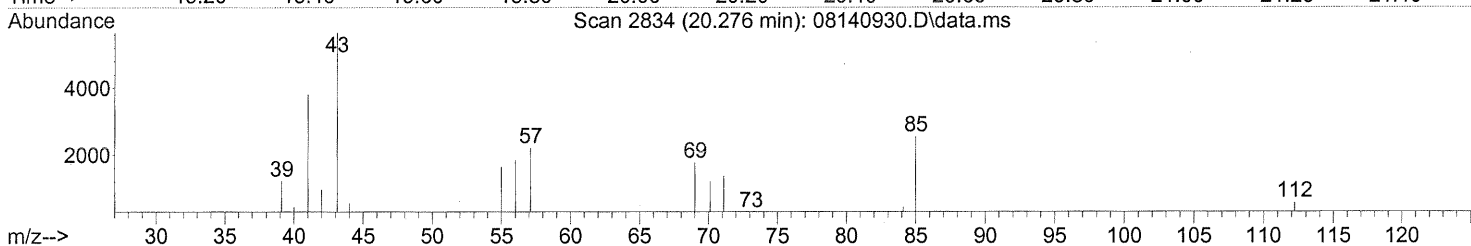
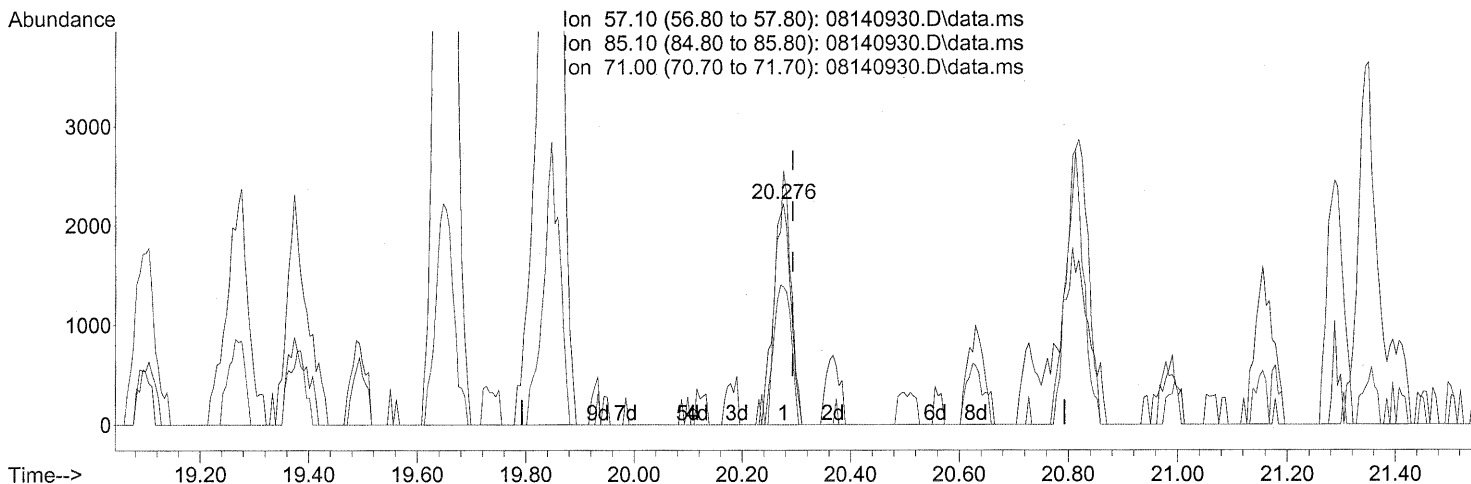
(59) 2-Hexanone (T)
 19.373min (-0.034) 0.91ng
 response 24653

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	49.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140930.D\data.ms

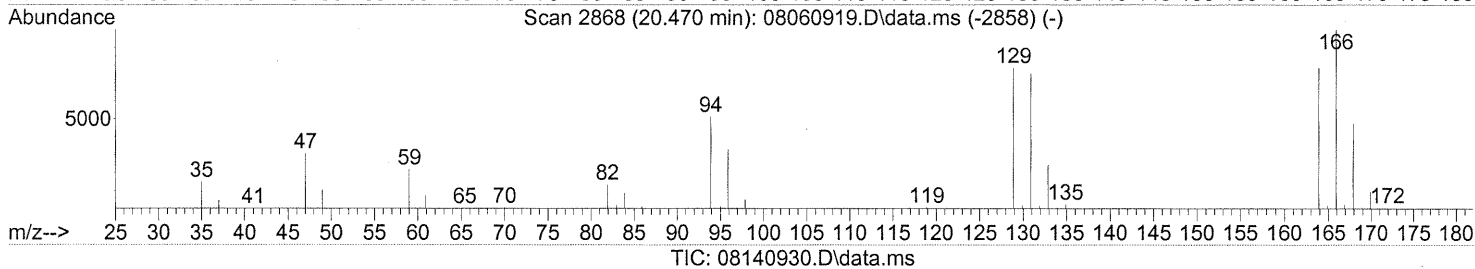
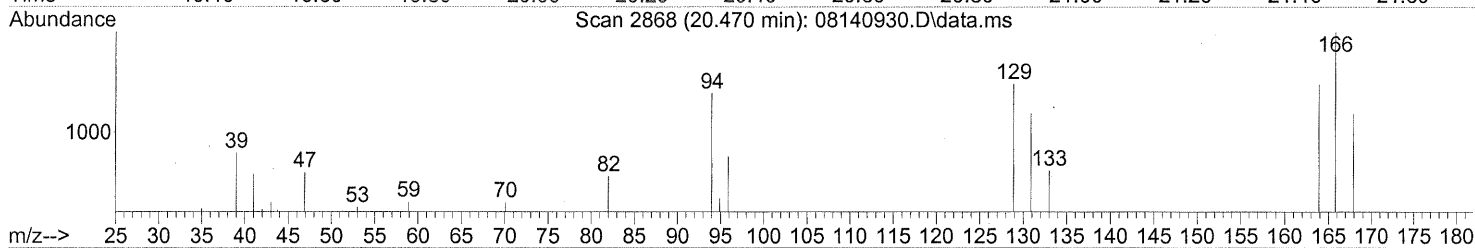
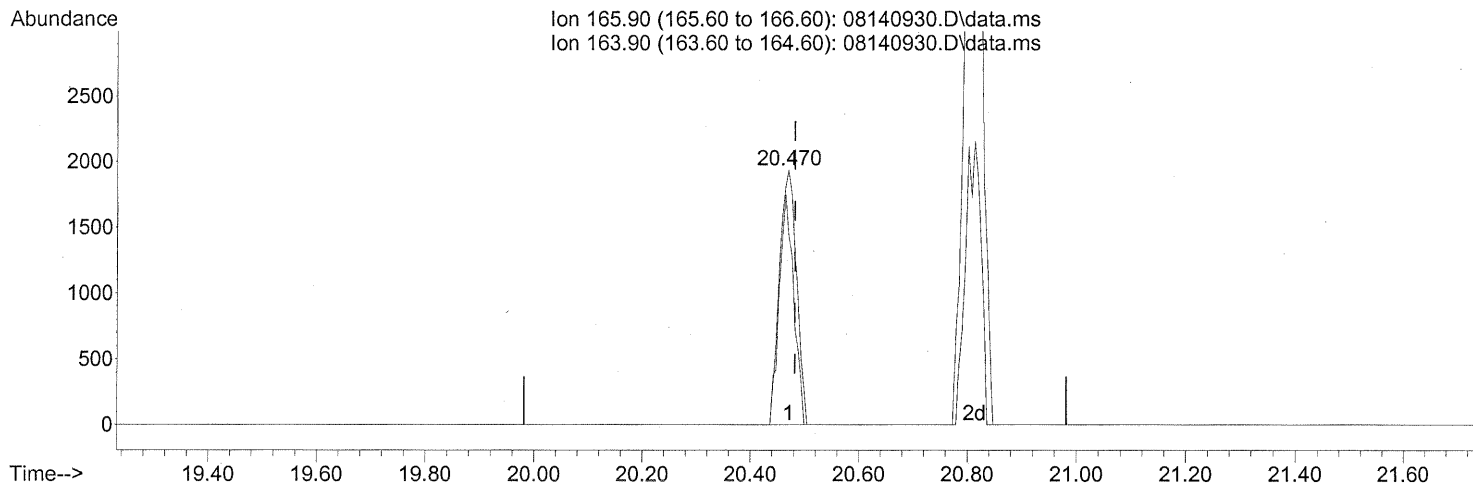
(63) n-Octane (T)
 20.276min (-0.017) 0.52ng
 response 5078

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	98.27
71.00	68.10	60.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
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 Operator : WA
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 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.470min (-0.011) 0.45ng

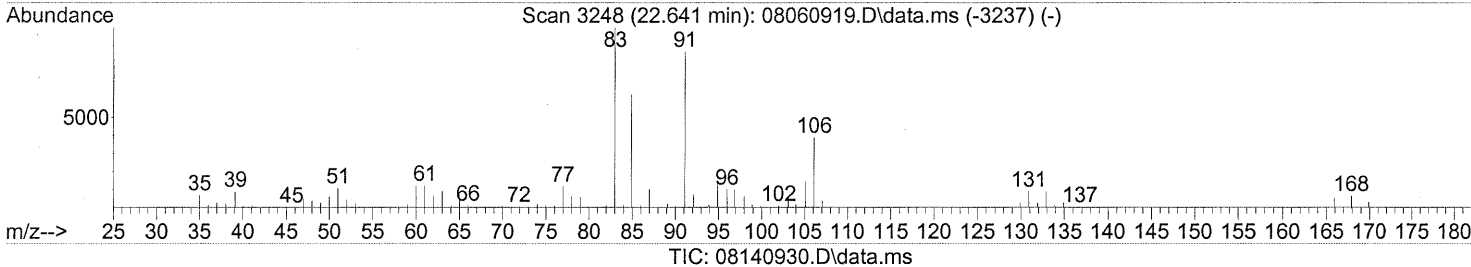
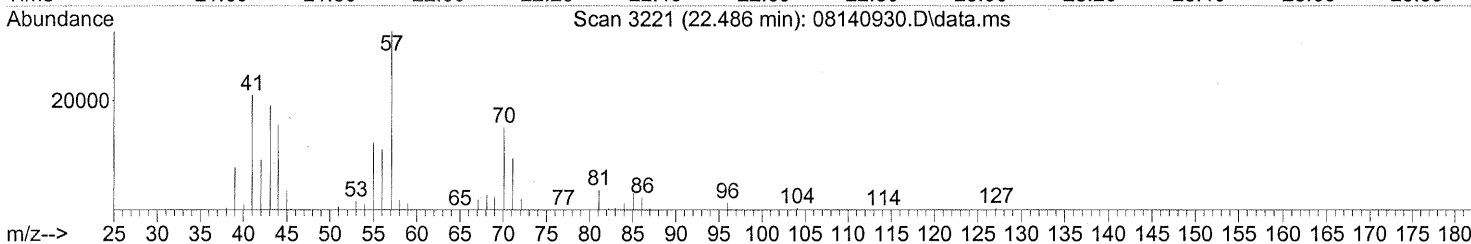
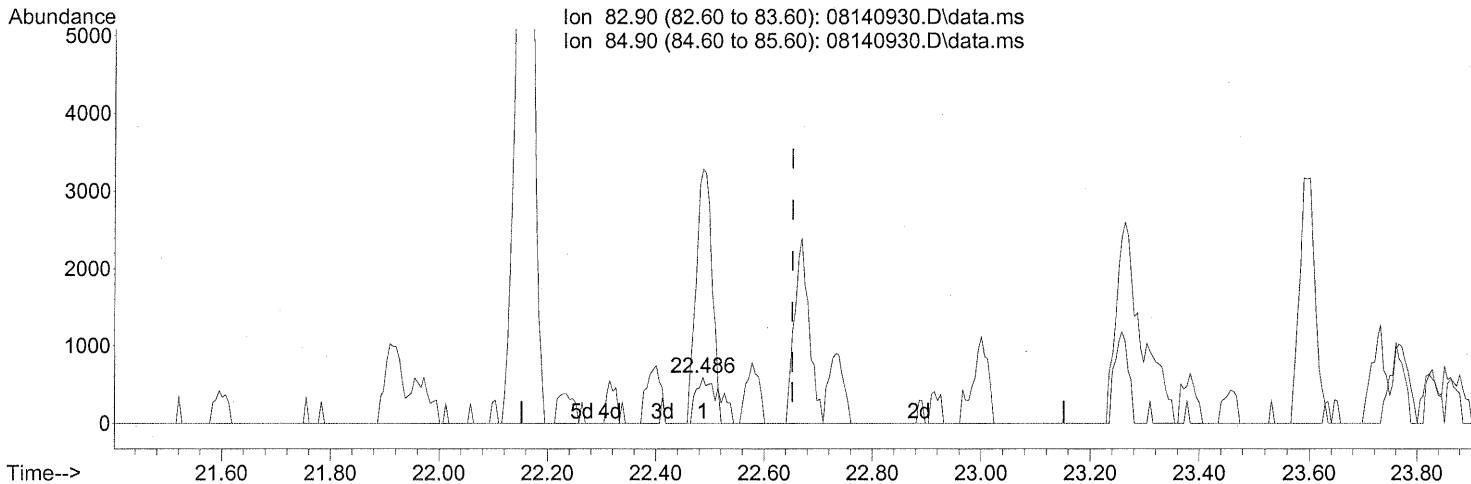
response 4203

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	76.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140930.D
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ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(72) 1,1,2,2-Tetrachloroethane (T)

22.486min (-0.166) 0.11ng

response 1794

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	379.93#
0.00	0.00	0.00
0.00	0.00	0.00

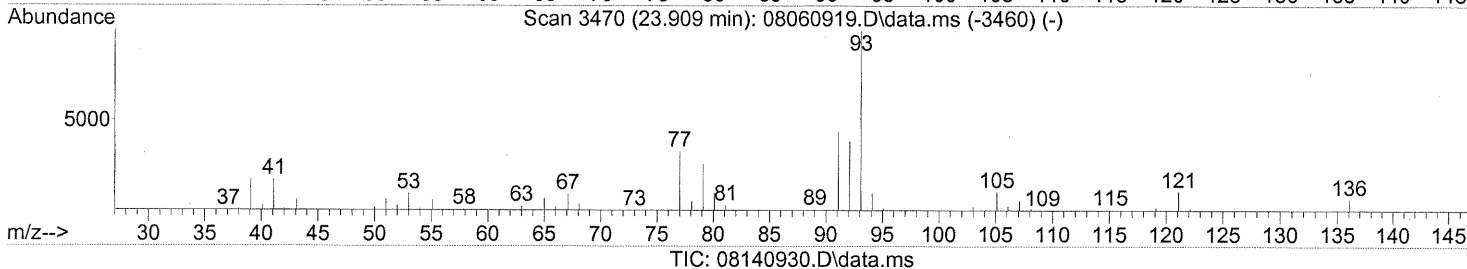
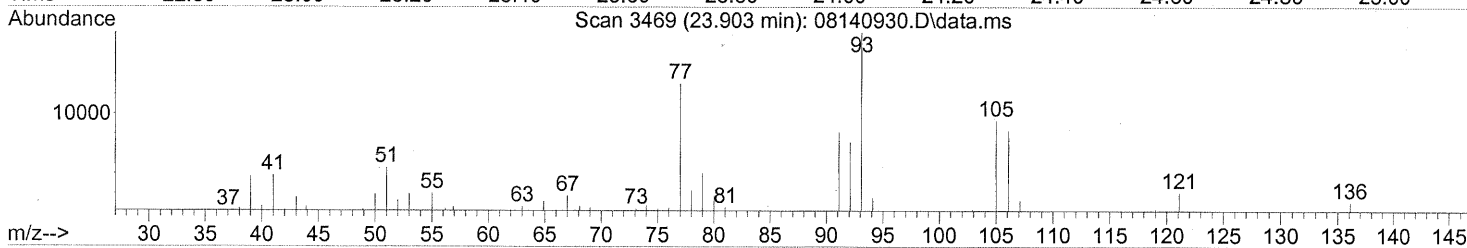
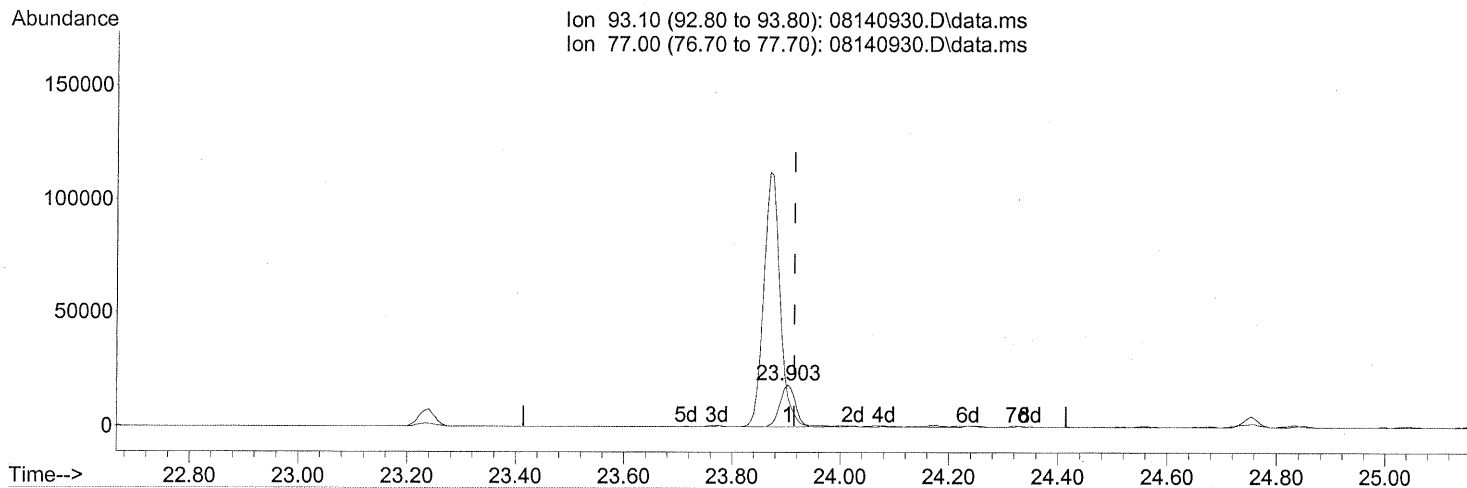
FP UH 8/20/09

R 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140930.D
 Acq On : 15 Aug 2009 2:20
 Operator : WA
 Sample : P0902721-009 (1000mL)
 Misc : Env. Health & Engineering 99954
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 15 07:19:37 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(75) alpha-Pinene (T)
 23.903min (-0.011) 1.46ng
 response 35632

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99955

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-010

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/7/09

Analyst: Wida Ang

Date Analyzed: 8/15/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC00885

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	3.6	0.74	2.1	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.4	0.74	0.68	0.15	
74-87-3	Chloromethane	0.96	0.15	0.46	0.072	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.74	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.067	
74-83-9	Bromomethane	0.34	0.15	0.088	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	Ethanol	470	7.4	250	3.9	
75-05-8	Acetonitrile	220	0.74	130	0.44	E
107-02-8	Acrolein	7.3	0.74	3.2	0.32	
67-64-1	Acetone	130	7.4	54	3.1	
75-69-4	Trichlorofluoromethane	1.7	0.15	0.29	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	14	0.74	5.9	0.30	
107-13-1	Acrylonitrile	ND	0.74	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	2.7	0.74	0.77	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.047	
76-13-1	Trichlorotrifluoroethane	0.82	0.15	0.11	0.019	
75-15-0	Carbon Disulfide	1.3	0.74	0.40	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	17	7.4	5.0	2.1	V
78-93-3	2-Butanone (MEK)	9.6	0.74	3.3	0.25	

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.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

E = Estimated; concentration exceeded calibration range.

Verified By: _____ Date: 8/24/09 **387**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99955

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-010

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/7/09

Analyst: Wida Ang

Date Analyzed: 8/15/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC00885

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	8.5	0.74	2.4	0.21	
110-54-3	n-Hexane	1.8	0.74	0.52	0.21	
67-66-3	Chloroform	1.2	0.15	0.24	0.030	
109-99-9	Tetrahydrofuran (THF)	ND	0.74	ND	0.25	
107-06-2	1,2-Dichloroethane	7.3	0.15	1.8	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	2.4	0.15	0.74	0.046	
56-23-5	Carbon Tetrachloride	0.69	0.15	0.11	0.024	
110-82-7	Cyclohexane	ND	0.74	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	0.23	0.15	0.035	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.74	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.74	ND	0.18	
142-82-5	n-Heptane	1.2	0.74	0.29	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	ND	0.16	
108-10-1	4-Methyl-2-pentanone	4.2	0.74	1.0	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	25	0.74	6.5	0.20	
591-78-6	2-Hexanone	1.1	0.74	0.27	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	5.7	0.74	1.2	0.16	

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: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99955
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-010

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: AC00885

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/15/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.2	0.74	0.25	0.16	
127-18-4	Tetrachloroethene	57	0.15	8.5	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	6.9	0.74	1.6	0.17	
179601-23-1	m,p-Xylenes	22	0.74	5.0	0.17	
75-25-2	Bromoform	ND	0.74	ND	0.072	
100-42-5	Styrene	4.6	0.74	1.1	0.17	
95-47-6	o-Xylene	5.6	0.74	1.3	0.17	
111-84-2	n-Nonane	1.4	0.74	0.26	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.74	ND	0.15	
80-56-8	alpha-Pinene	97	0.74	17	0.13	
103-65-1	n-Propylbenzene	1.0	0.74	0.21	0.15	
622-96-8	4-Ethyltoluene	2.1	0.74	0.42	0.15	
108-67-8	1,3,5-Trimethylbenzene	1.9	0.74	0.40	0.15	
95-63-6	1,2,4-Trimethylbenzene	7.1	0.74	1.5	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.029	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	17	0.74	3.1	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.74	ND	0.077	
120-82-1	1,2,4-Trichlorobenzene	ND	0.74	ND	0.10	
91-20-3	Naphthalene	0.90	0.74	0.17	0.14	
87-68-3	Hexachlorobutadiene	ND	0.74	ND	0.069	

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: _____

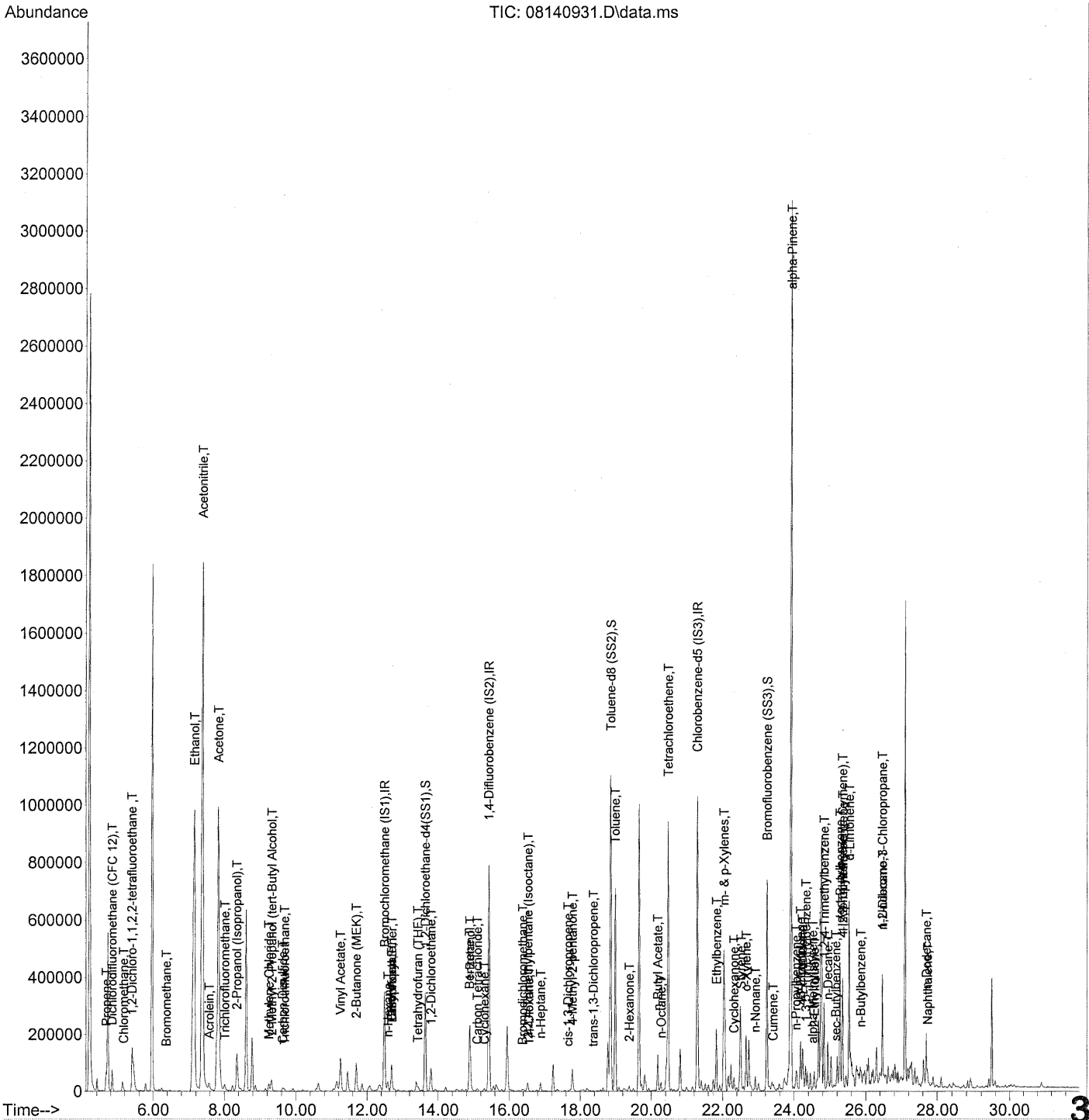
Date: 8/24/09

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TO15scan.xls - 75 Compounds - PageNo.:

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 20 09:57:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955 ✓
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Quant Time: Aug 20 09:57:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	174909	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	882784	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	429740	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	351575	23.126	ng	-0.03
Spiked Amount	25.000		Recovery	=	92.52%	✓
57) Toluene-d8 (SS2)	18.85	98	938840	25.003	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.00%	✓
73) Bromofluorobenzene (SS3)	23.24	174	234118	23.643	ng	0.00
Spiked Amount	25.000		Recovery	=	94.56%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	28884	2.406	ng	95
3) Dichlorodifluoromethan...	4.84	85	44417	2.264	ng	99
4) Chloromethane	5.17	50	8530	0.647	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	624	0.078	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	98	N.D.		
8) Bromomethane	6.37	94	1779	0.231	ng	94
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.15	45	2399136	315.339	ng	100
11) Acetonitrile	7.38	41	3322044	149.097	ng	E 100
12) Acrolein	7.57	56	28547	4.929	ng	99
13) Acetone	7.83	58	623682	86.881	ng	95
14) Trichlorofluoromethane	8.01	101	19815	1.117	ng	98
15) 2-Propanol (Isopropanol)	8.35	45	276081	9.787	ng	98
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.33	59	7748	0.309	ng	# 1
19) Methylene Chloride	9.25	84	17334	1.798	ng	89
20) 3-Chloro-1-propene (Al...	9.43	41	182	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3583	0.556	ng	98
22) Carbon Disulfide	9.63	76	28726	0.845	ng	94
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	11.16	73	94	N.D.		
26) Vinyl Acetate	11.24	86	17268	11.820	ng	# 60
27) 2-Butanone (MEK)	11.69	72	42120	6.498	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.70	87	1305	0.150	ng	# 1
30) Ethyl Acetate	12.68	61	19366	5.735	ng	94
31) n-Hexane	12.58	57	21427	1.241	ng	98

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 20 09:57:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	11978	0.788 ng		97
34) Tetrahydrofuran (THF)	13.43	72	3218	0.466 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	68970	4.963 ng		99
38) 1,1,1-Trichloroethane	14.17	97	205	N.D.		
39) Isopropyl Acetate	14.87	61	95	N.D.		
40) 1-Butanol	14.89	56	164047	14.318 ng		80
41) Benzene	14.88	78	61805	1.592 ng		99
42) Carbon Tetrachloride	15.10	117	5759	0.466 ng		95
43) Cyclohexane	15.29	84	4834	0.340 ng		94
44) tert-Amyl Methyl Ether	16.09	73	112	N.D.		
45) 1,2-Dichloropropane	16.11	63	424	N.D.		
46) Bromodichloromethane	16.37	83	2021	0.158 ng	#	65
47) Trichloroethene	16.45	130	115	N.D.		
48) 1,4-Dioxane	16.55	88	781	0.105 ng	#	12
49) 2,2,4-Trimethylpentane...	16.52	57	30819	0.674 ng		93
50) Methyl Methacrylate	16.78	100	178	N.D.		
51) n-Heptane	16.88	71	8383	0.805 ng		98
52) cis-1,3-Dichloropropene	17.65	75	2002	0.124 ng		90
53) 4-Methyl-2-pentanone	17.77	58	26218	2.811 ng		95
54) trans-1,3-Dichloropropene	18.36	75	1688	0.110 ng		66
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	613915	16.636 ng		100
59) 2-Hexanone	19.38	43	18547	0.756 ng		94
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	110608	3.824 ng		96
63) n-Octane	20.28	57	6953	0.779 ng		91
64) Tetrachloroethene	20.47	166	331382	38.805 ng		99
65) Chlorobenzene	21.33	112	279	N.D.		
66) Ethylbenzene	21.82	91	196965	4.669 ng		100
67) m- & p-Xylenes	22.04	91	500561	14.668 ng		99
68) Bromoform	22.15	173	309	N.D.		
69) Styrene	22.51	104	76422	3.098 ng		100
70) o-Xylene	22.65	91	129568	3.787 ng		98
71) n-Nonane	22.91	43	21048	0.926 ng		95
72) 1,1,2,2-Tetrachloroethane	22.65	83	181	N.D.		
74) Cumene	23.41	105	8634	0.200 ng		100
75) alpha-Pinene	23.90	93	1452390	65.558 ng		86
76) n-Propylbenzene	24.05	91	38454	0.708 ng		87
77) 3-Ethyltoluene	24.18	105	104160	2.522 ng		99
78) 4-Ethyltoluene	24.23	105	55815	1.395 ng		97
79) 1,3,5-Trimethylbenzene	24.32	105	44381	1.315 ng		9

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 20 09:57:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

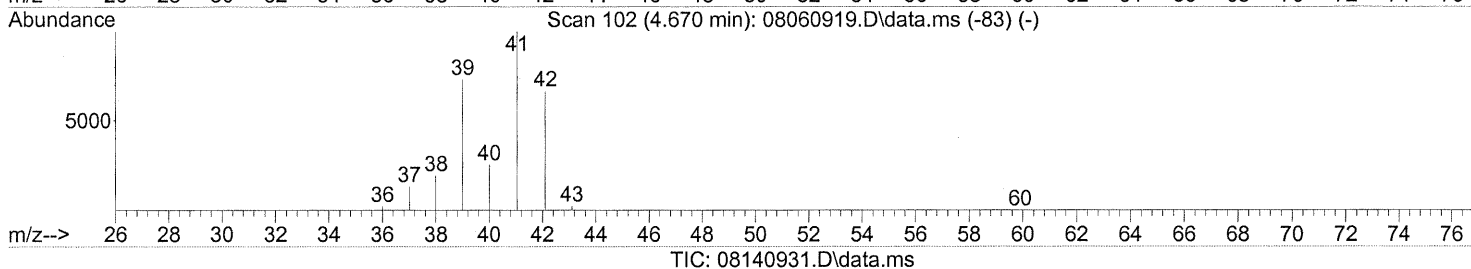
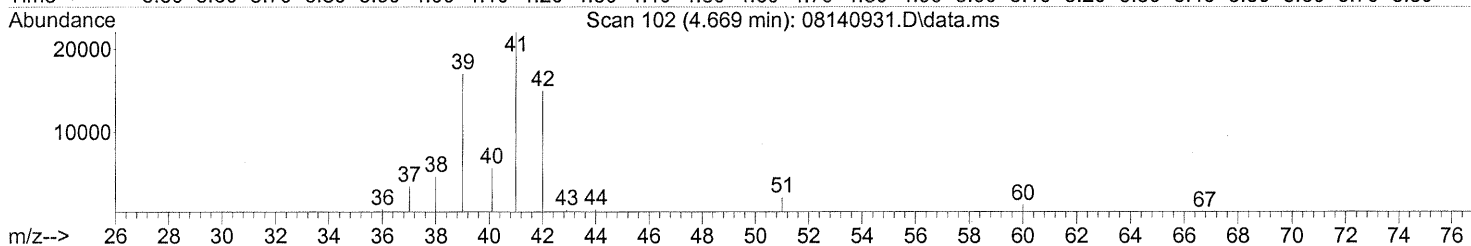
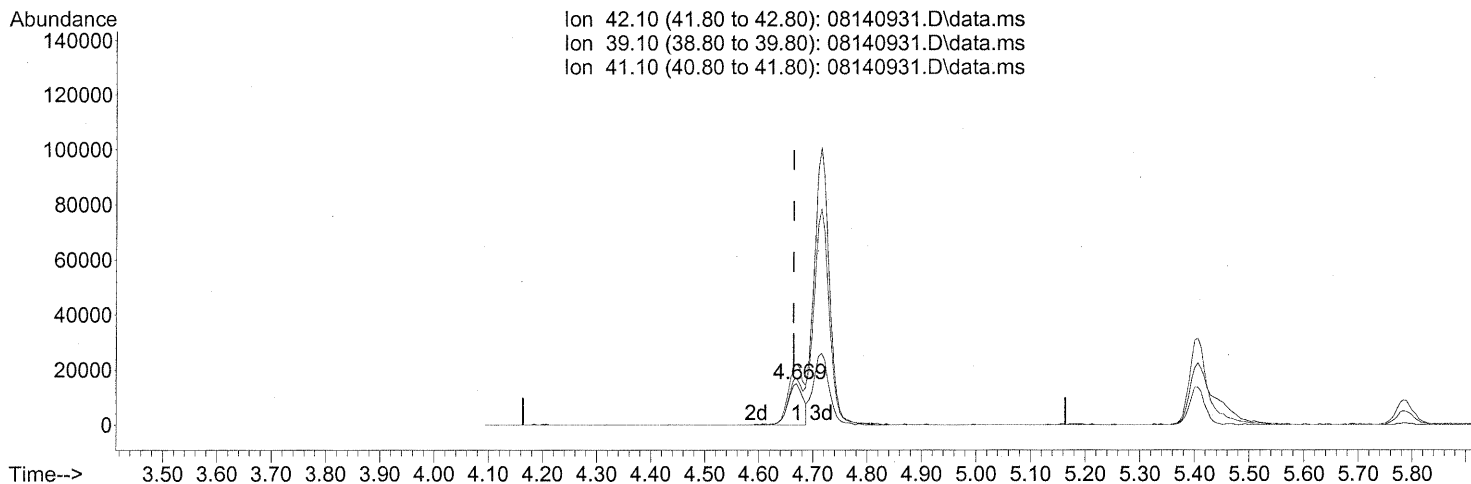
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1116	0.062	ng	# 16
81) 2-Ethyltoluene	24.56	105	42995	1.032	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	166105	4.825	ng	89
83) n-Decane	24.94	57	63679	2.845	ng	89
84) Benzyl Chloride	24.99	91	275	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	609	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	609	N.D.		
87) sec-Butylbenzene	25.16	105	5328	0.115	ng	87
88) 4-Isopropyltoluene (p-...	25.35	119	160992	3.882	ng	95
89) 1,2,3-Trimethylbenzene	25.35	105	49406	1.409	ng	75
90) 1,2-Dichlorobenzene	25.10	146	609	N.D.		
91) d-Limonene	25.53	68	169258	11.563	ng	92
92) 1,2-Dibromo-3-Chloropr...	26.46	157	520	0.092	ng	# 1
93) n-Undecane	26.46	57	125990	5.291	ng	90
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	28331	0.606	ng	94
96) n-Dodecane	27.70	57	62251	2.250	ng	96
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	28666	1.875	ng	# 83
99) tert-Butylbenzene	25.27	119	13523	0.406	ng	93
100) n-Butylbenzene	25.86	91	19908	0.519	ng	# 48

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.669min (+0.006) 2.41ng

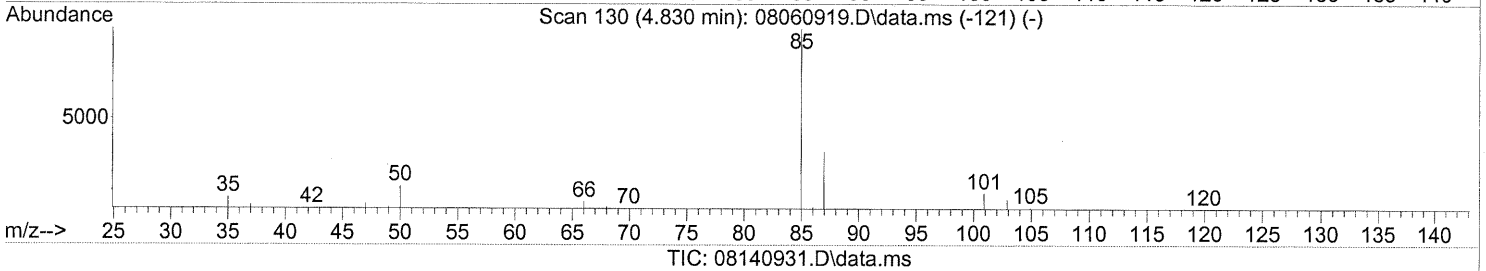
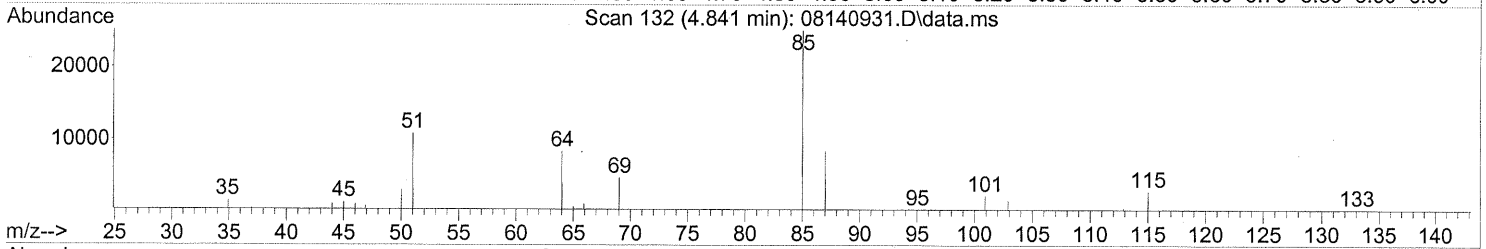
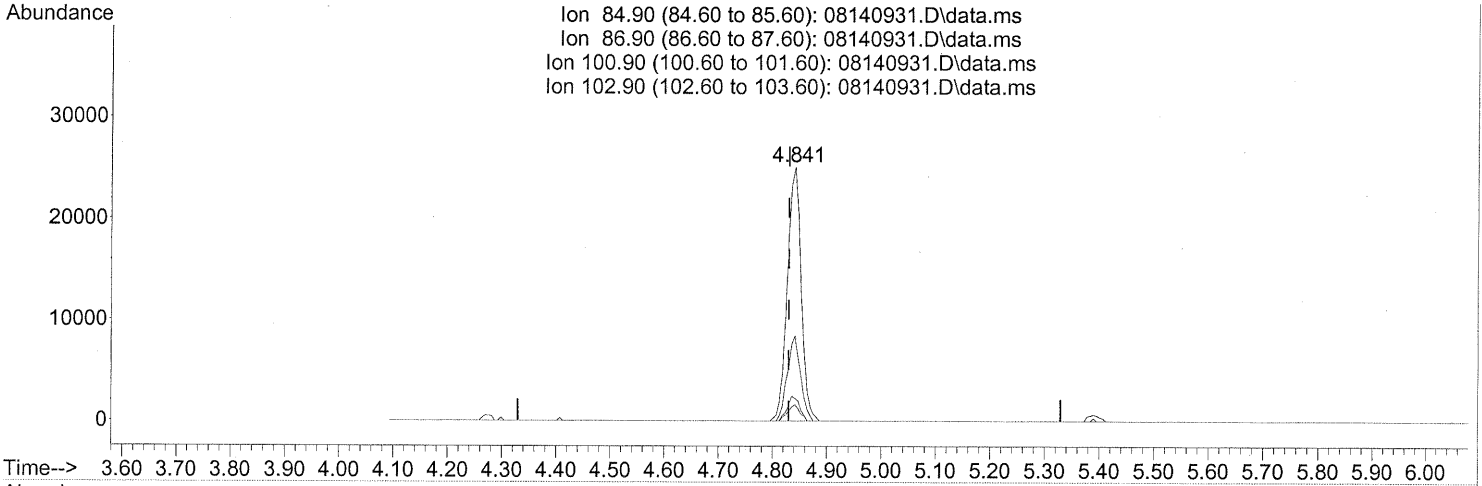
response 28884

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	103.71
41.10	150.20	153.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.841min (+0.011) 2.26ng

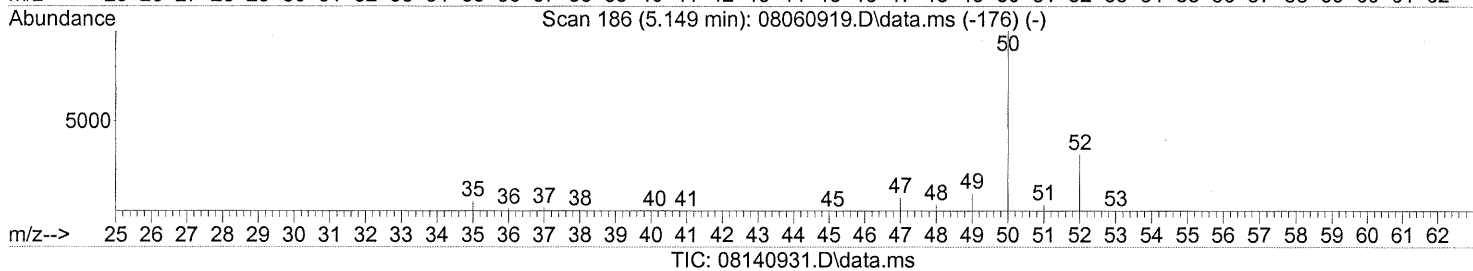
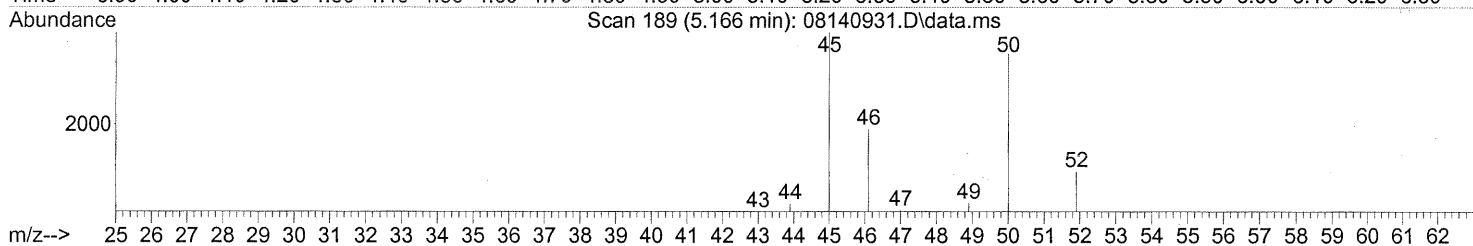
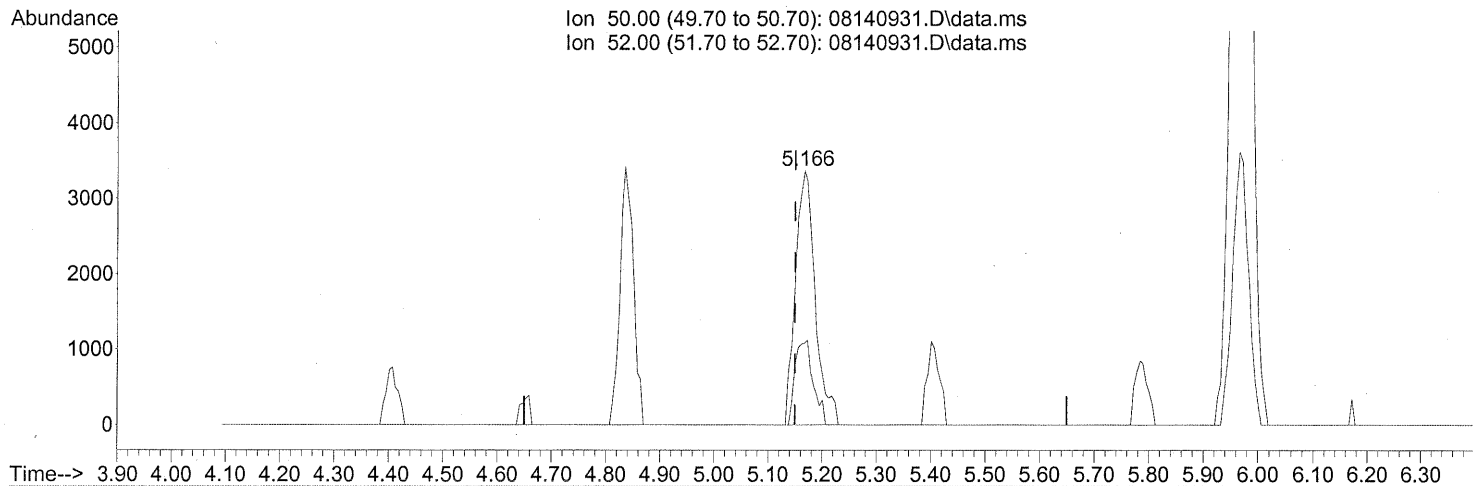
response 44417

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.91
100.90	8.80	8.63
102.90	5.20	5.55

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140931.D
Acq On : 15 Aug 2009 3:02
Operator : WA
Sample : P0902721-010 (1000mL)
Misc : Env. Health & Engineering 99955
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(4) Chloromethane (T)

5.166min (+0.017) 0.65ng

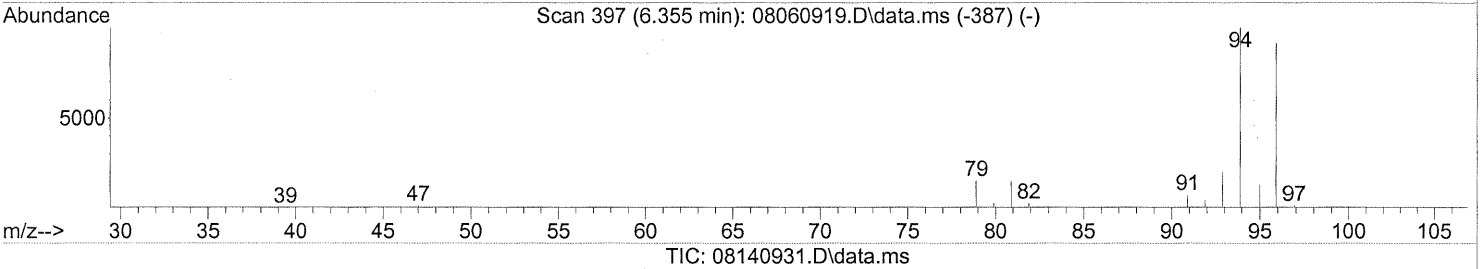
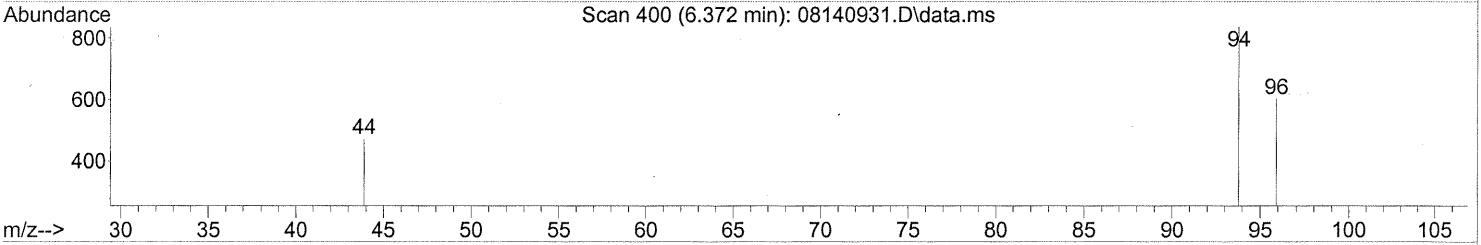
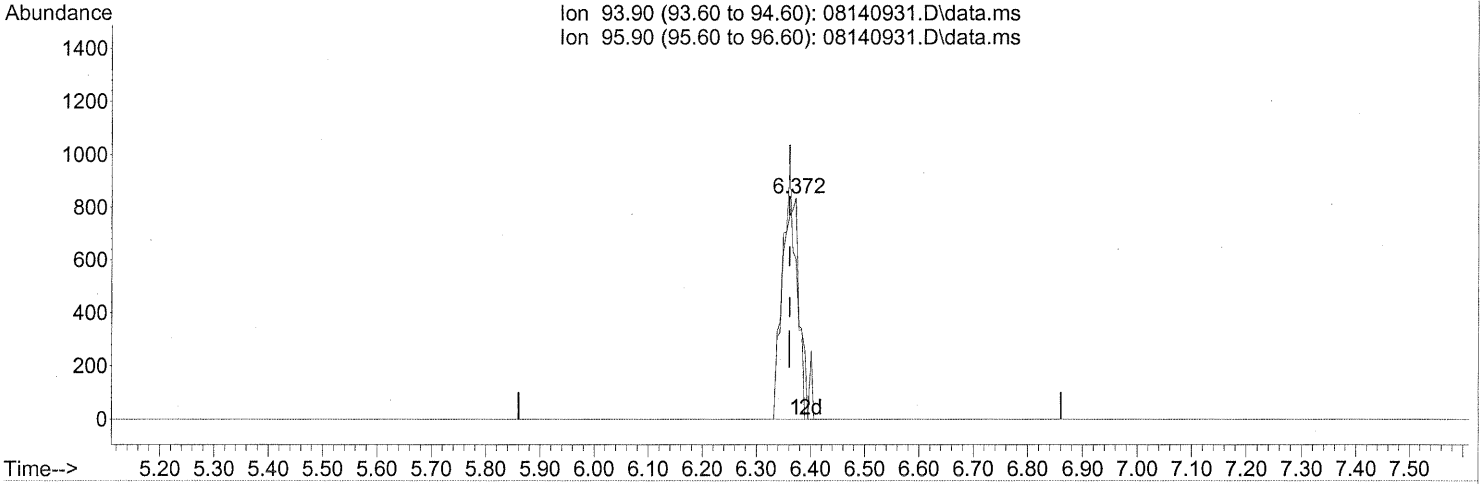
response 8530

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	30.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



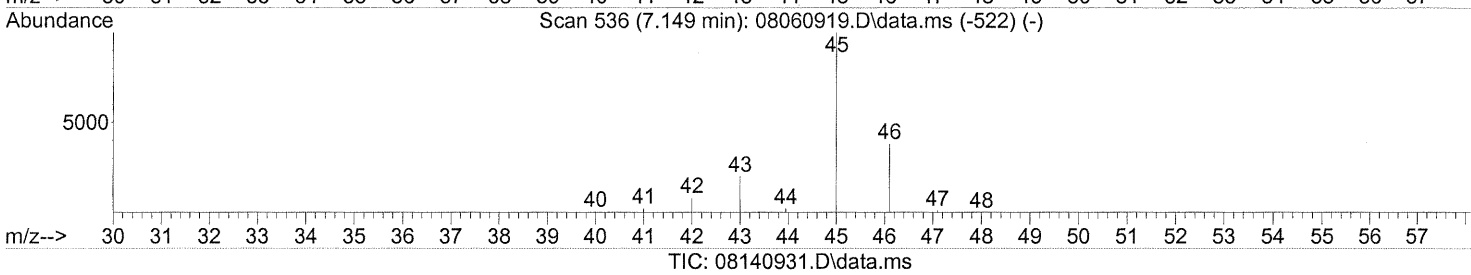
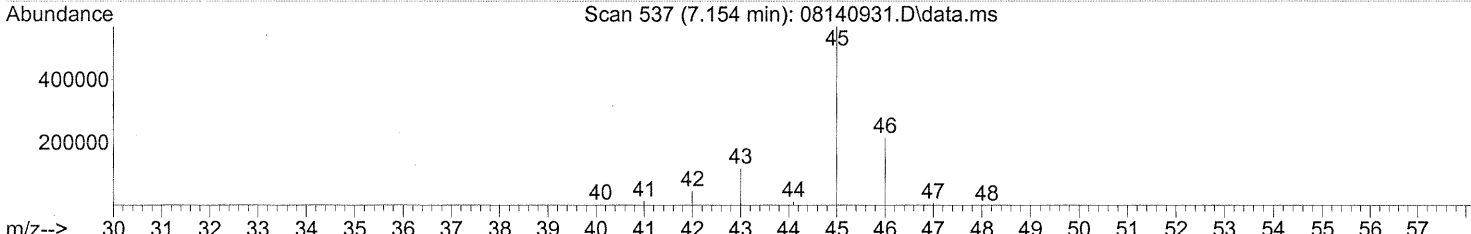
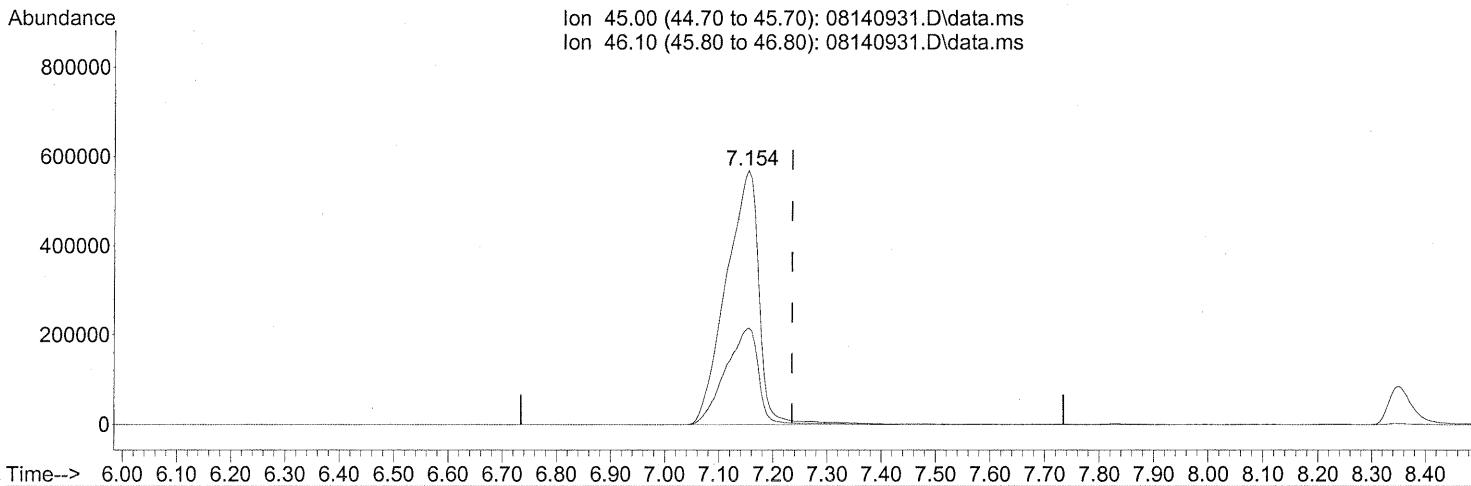
(8) Bromomethane (T)
 6.372min (+0.011) 0.23ng
 response 1779

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	98.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

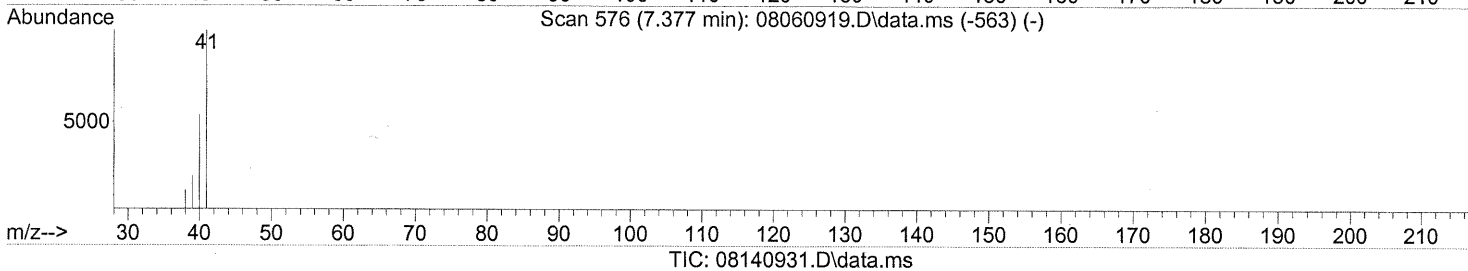
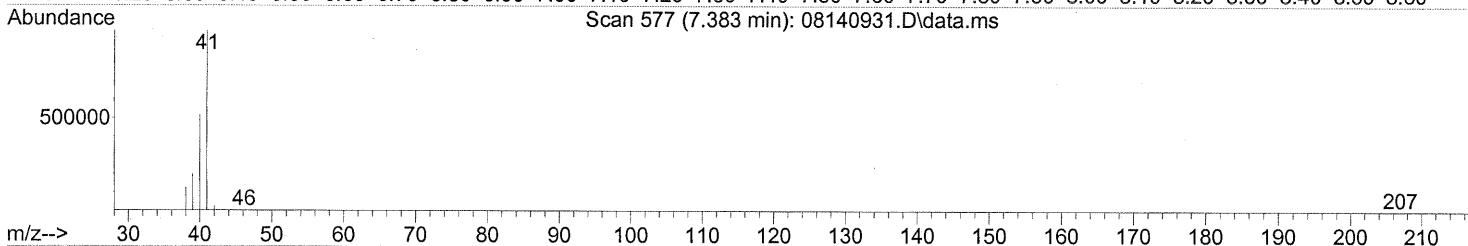
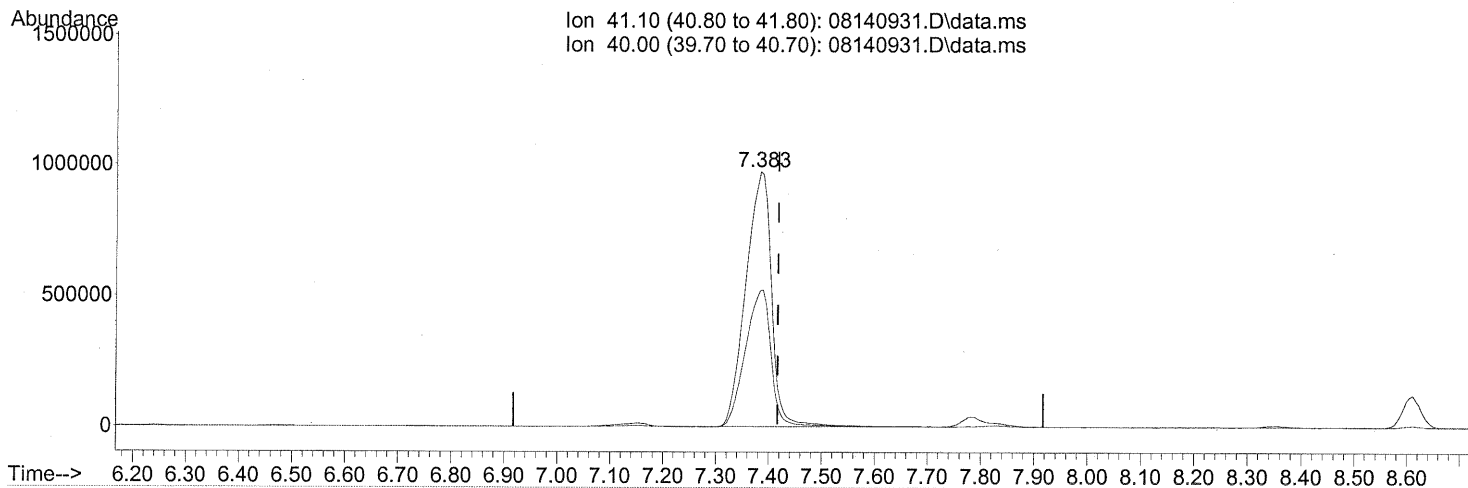
7.154min (-0.080) 315.34ng
 response 2399136

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140931.D
Acq On : 15 Aug 2009 3:02
Operator : WA
Sample : P0902721-010 (1000mL)
Misc : Env. Health & Engineering 99955
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 20 09:57:07 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(11) Acetonitrile (T)

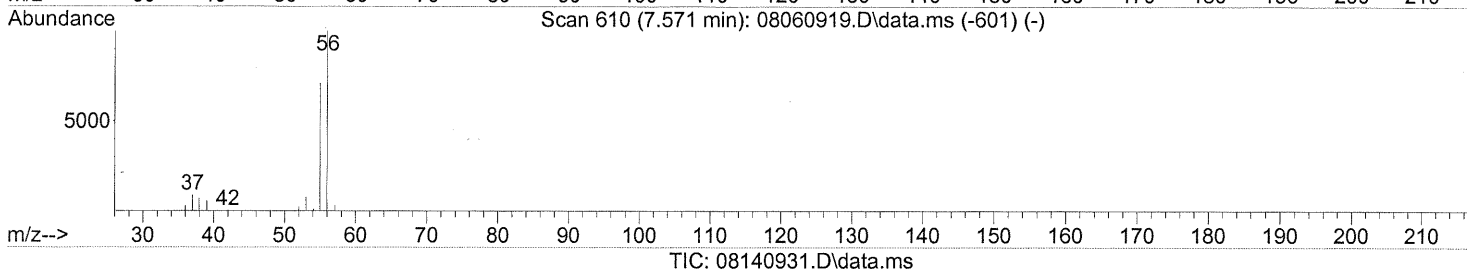
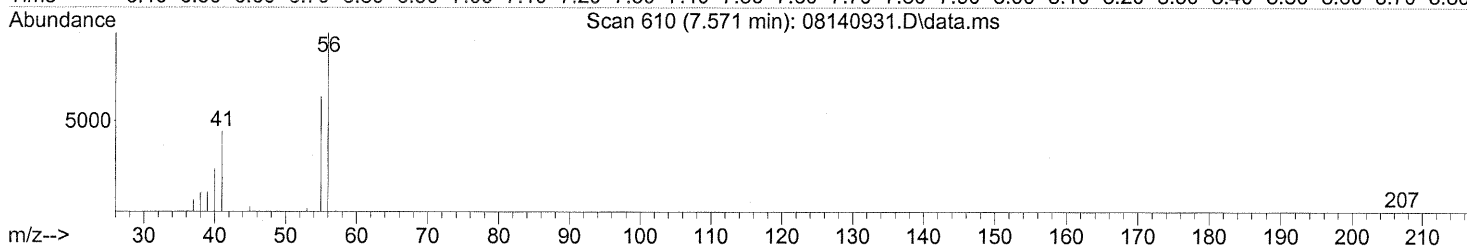
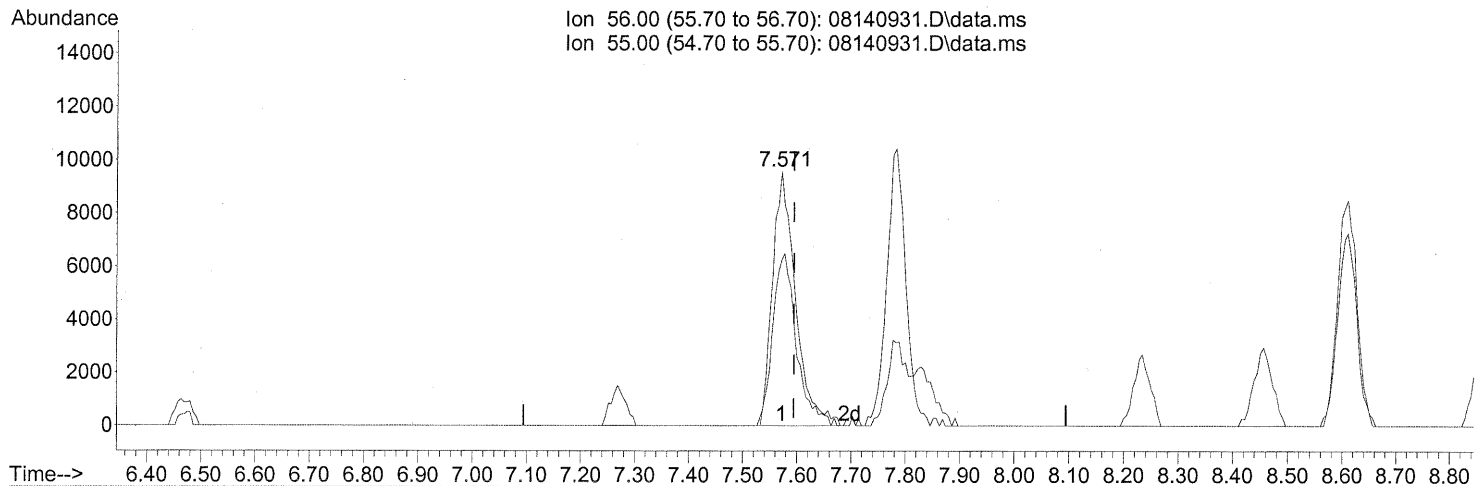
7.383min (-0.034) 149.10ng
response 3322044

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



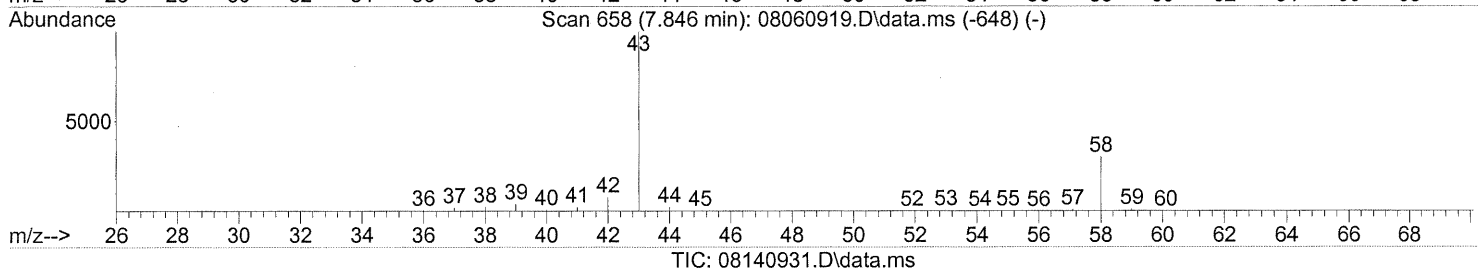
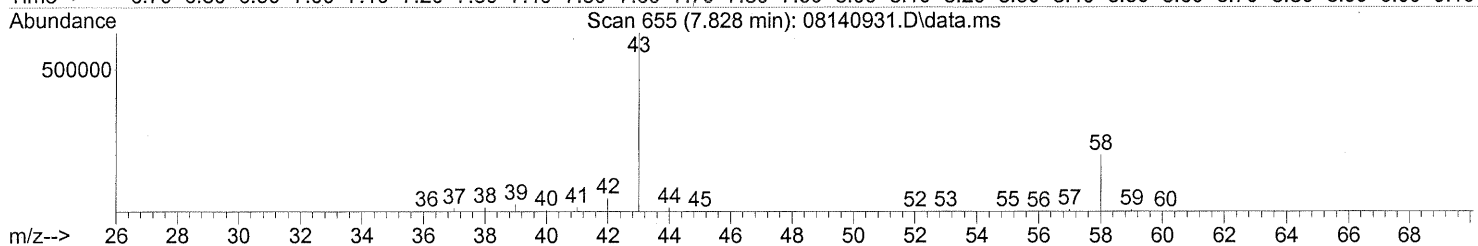
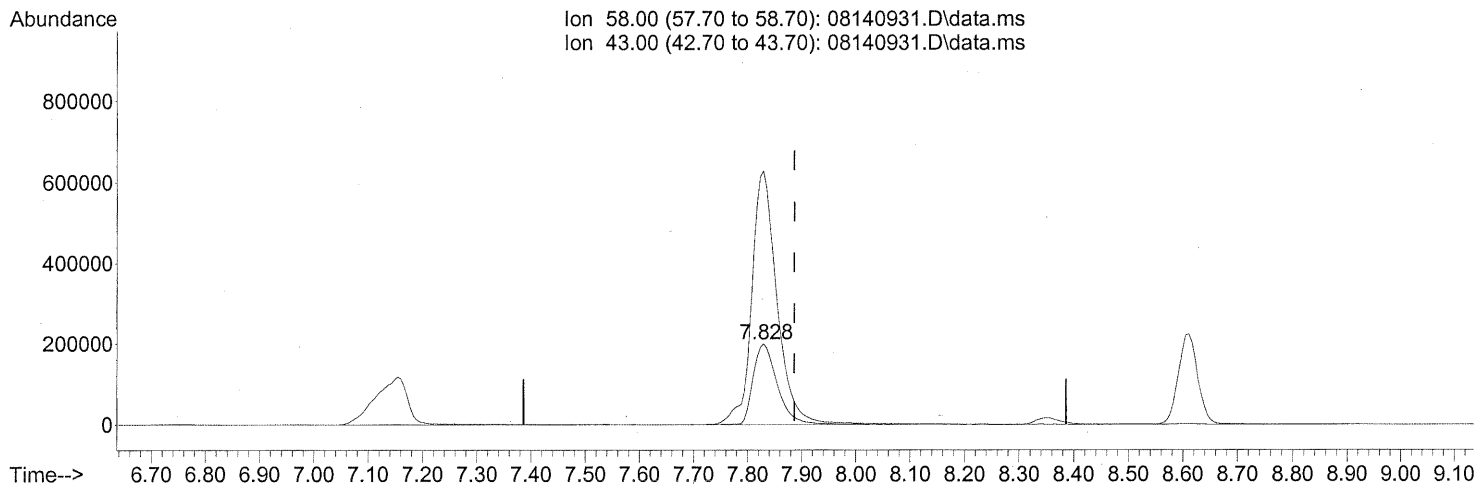
(12) Acrolein (T)
 7.571min (-0.023) 4.93ng
 response 28547

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	69.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

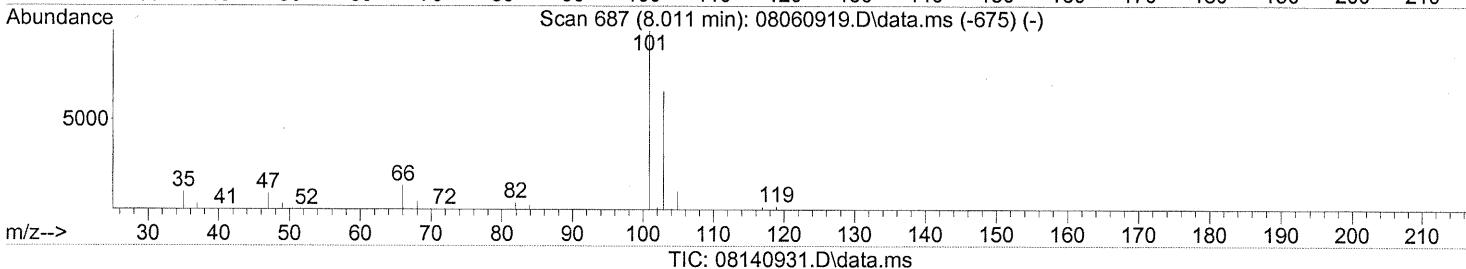
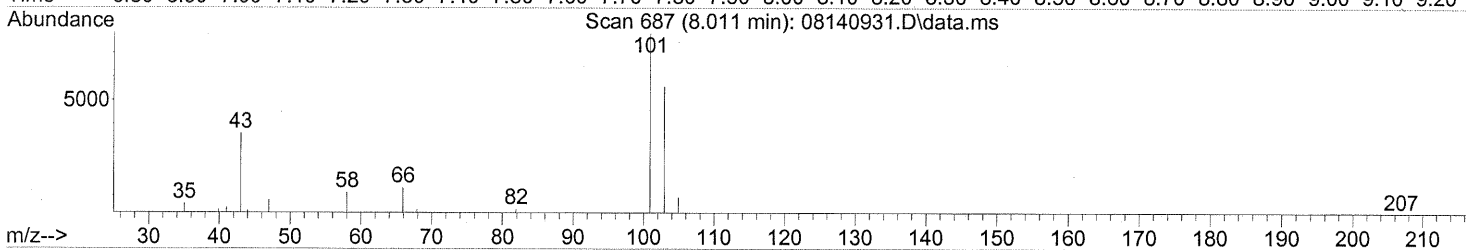
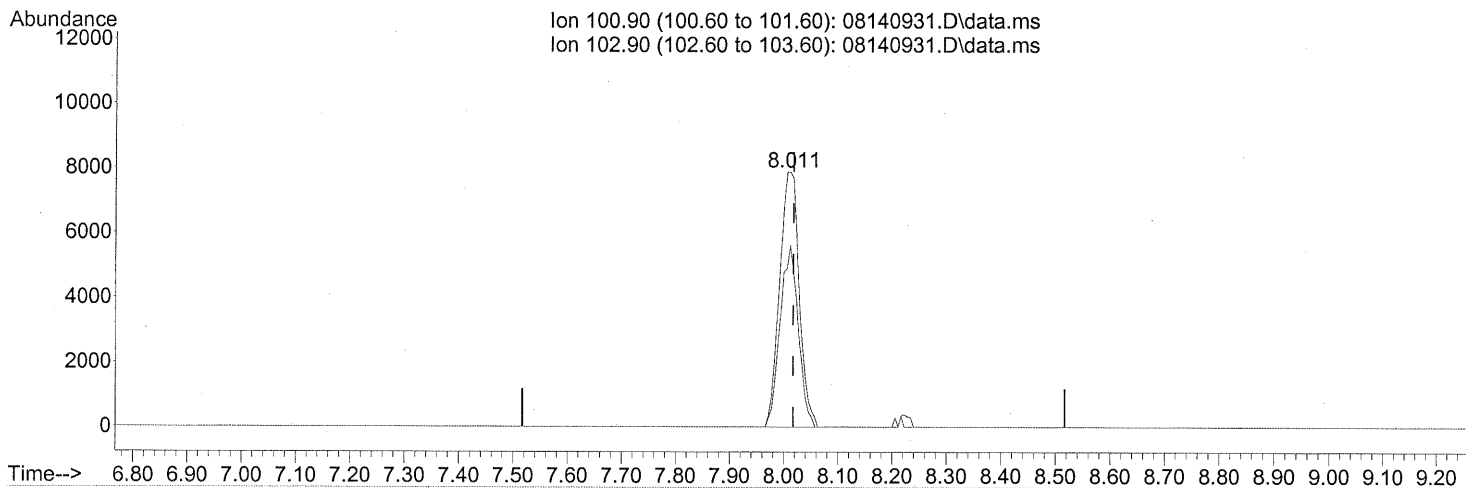
7.828min (-0.058) 86.88ng
 response 623682

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	330.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.011min (-0.006) 1.12ng

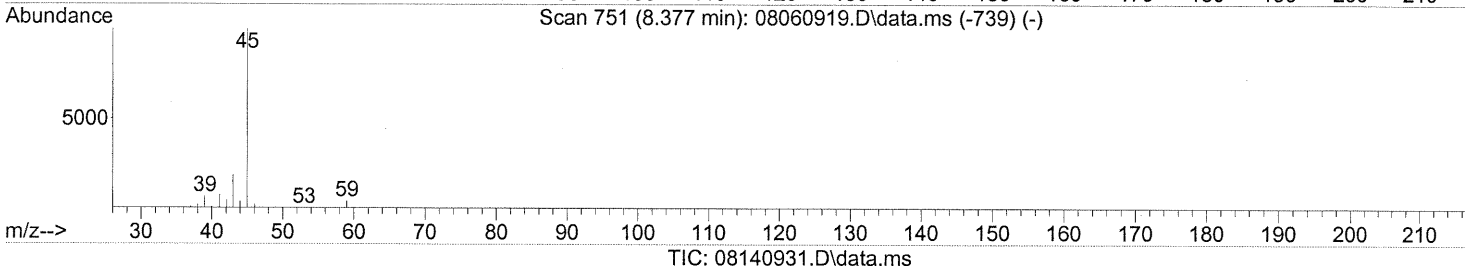
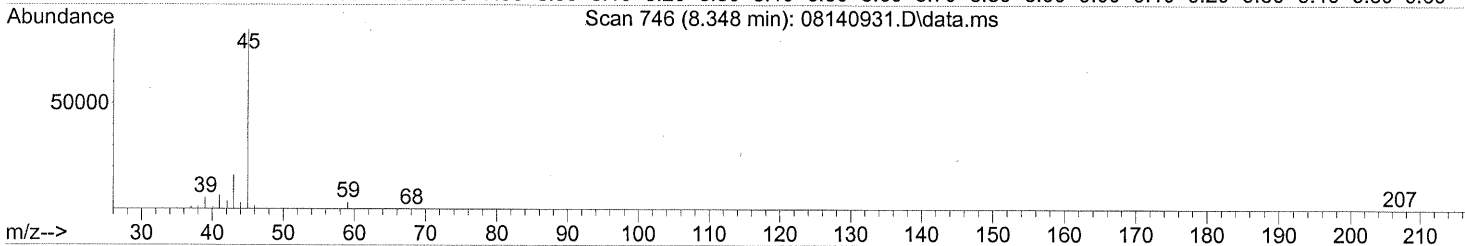
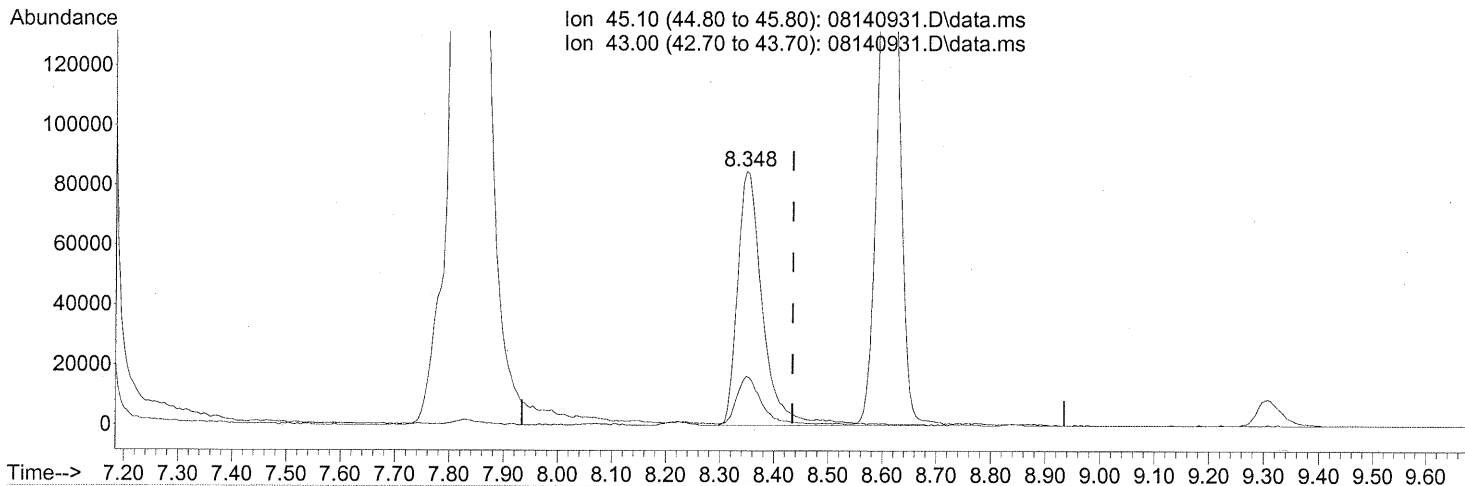
response 19815

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	65.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.348min (-0.086) 9.79ng

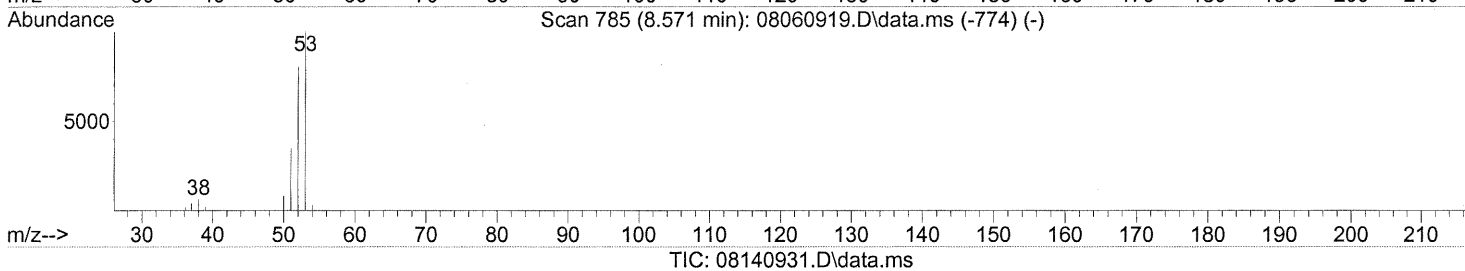
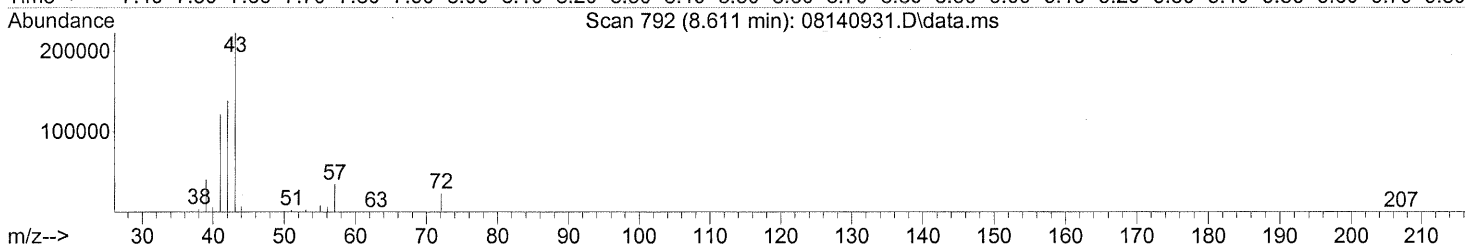
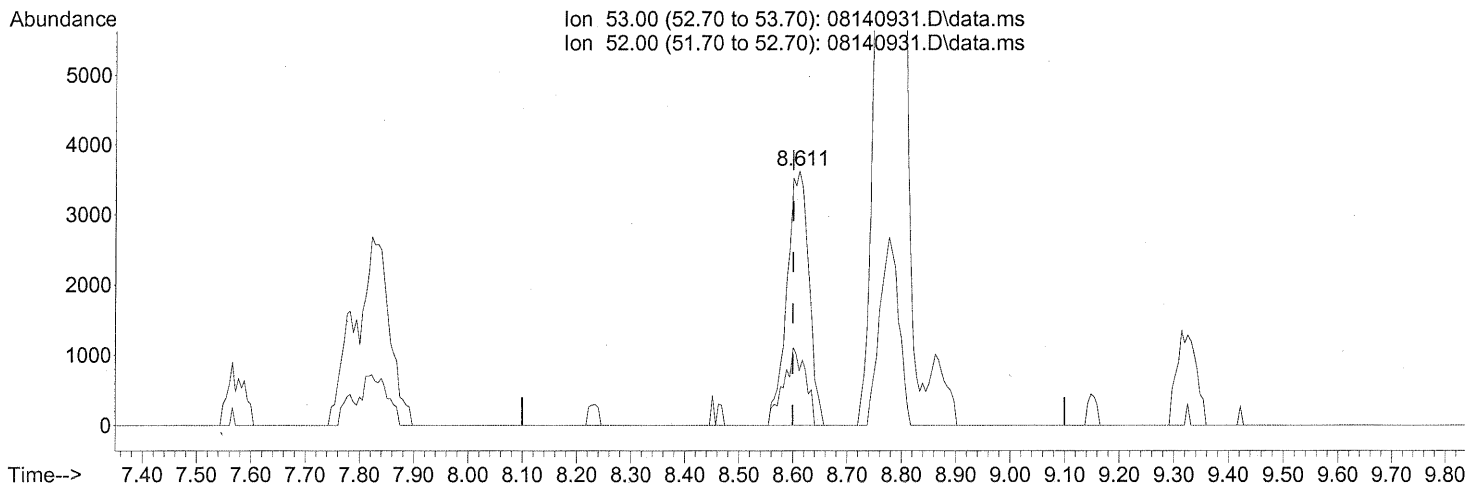
response 276081

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)

8.611min (+0.011) 0.79ng

response 10205

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	30.13#
0.00	0.00	0.00
0.00	0.00	0.00

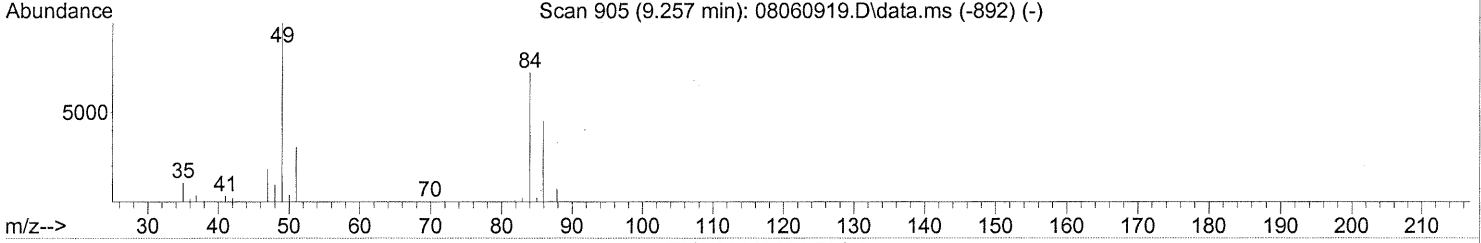
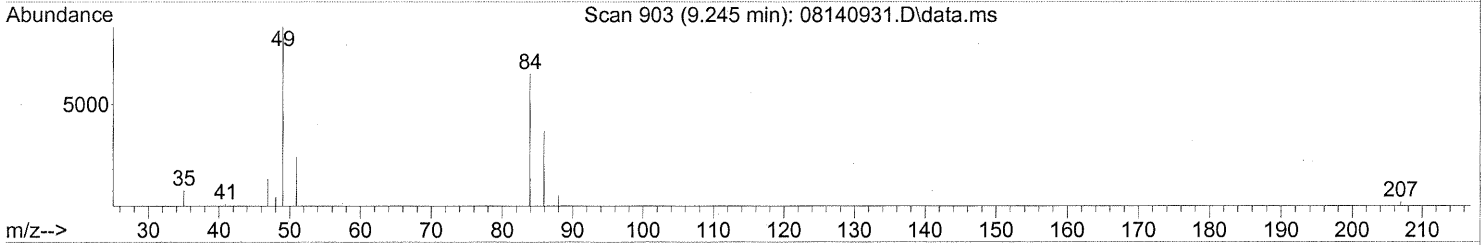
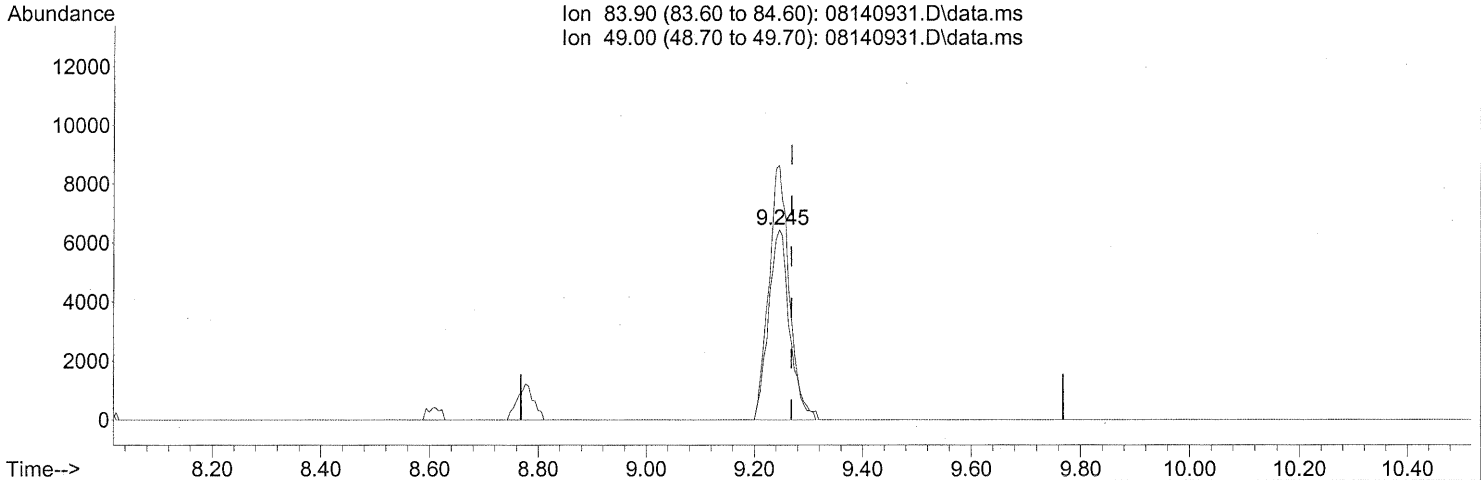
FP *UH 8/20/09*

— R 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140931.D\data.ms

(19) Methylene Chloride (T)

9.245min (-0.023) 1.80ng

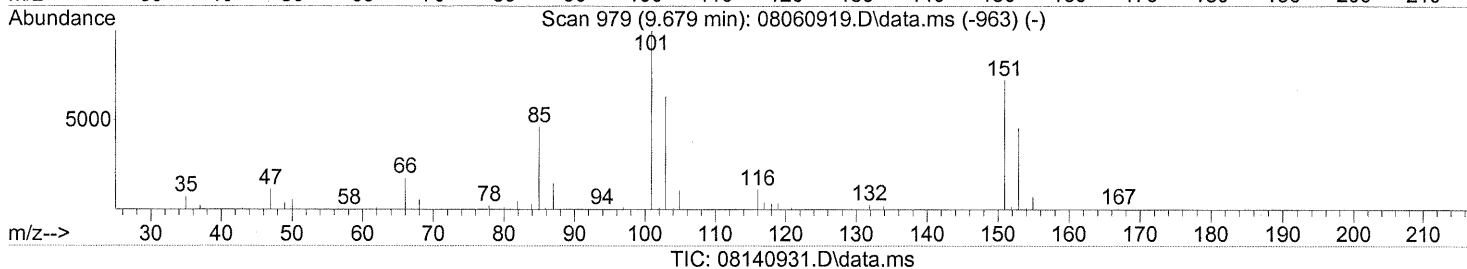
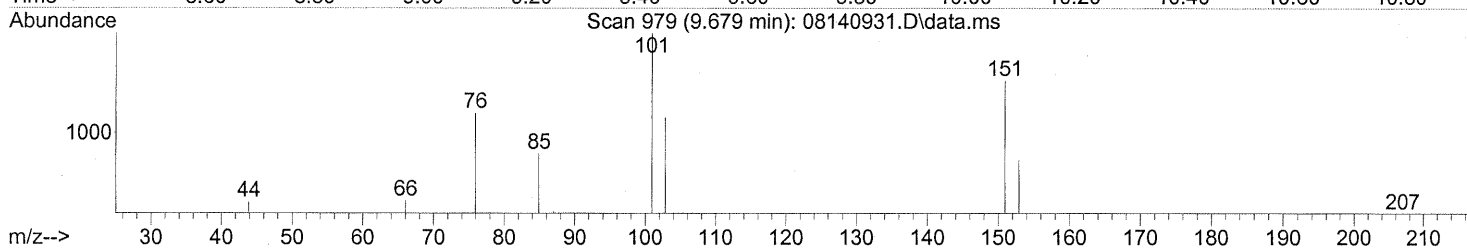
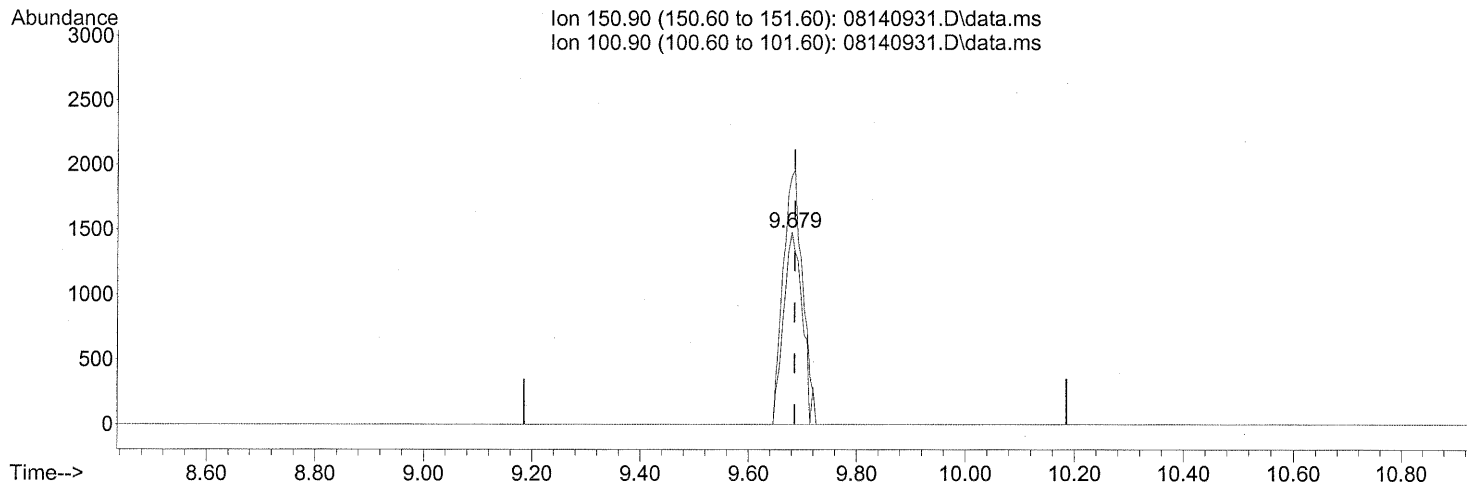
response 17334

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	130.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140931.D
Acq On : 15 Aug 2009 3:02
Operator : WA
Sample : P0902721-010 (1000mL)
Misc : Env. Health & Engineering 99955
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.56ng

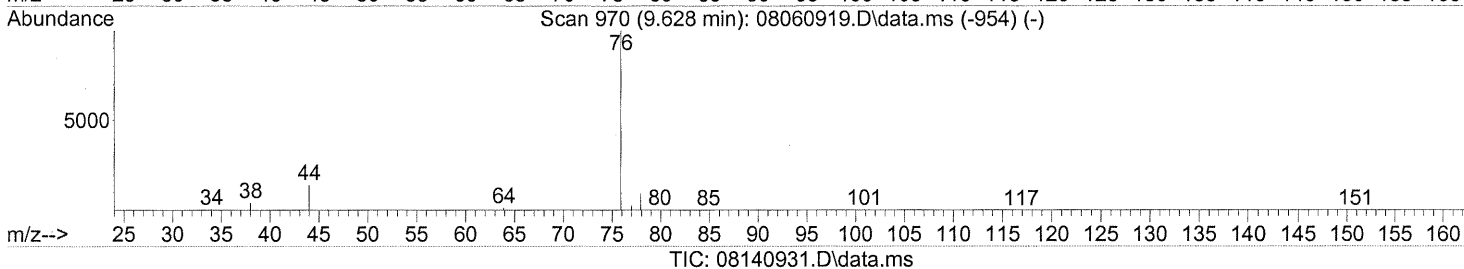
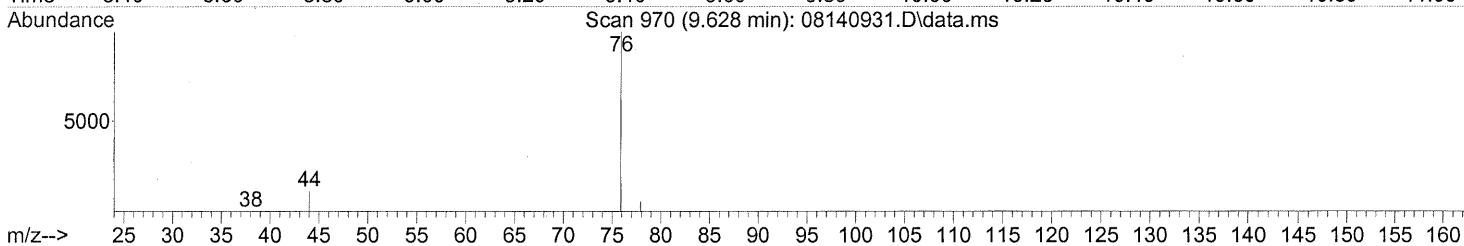
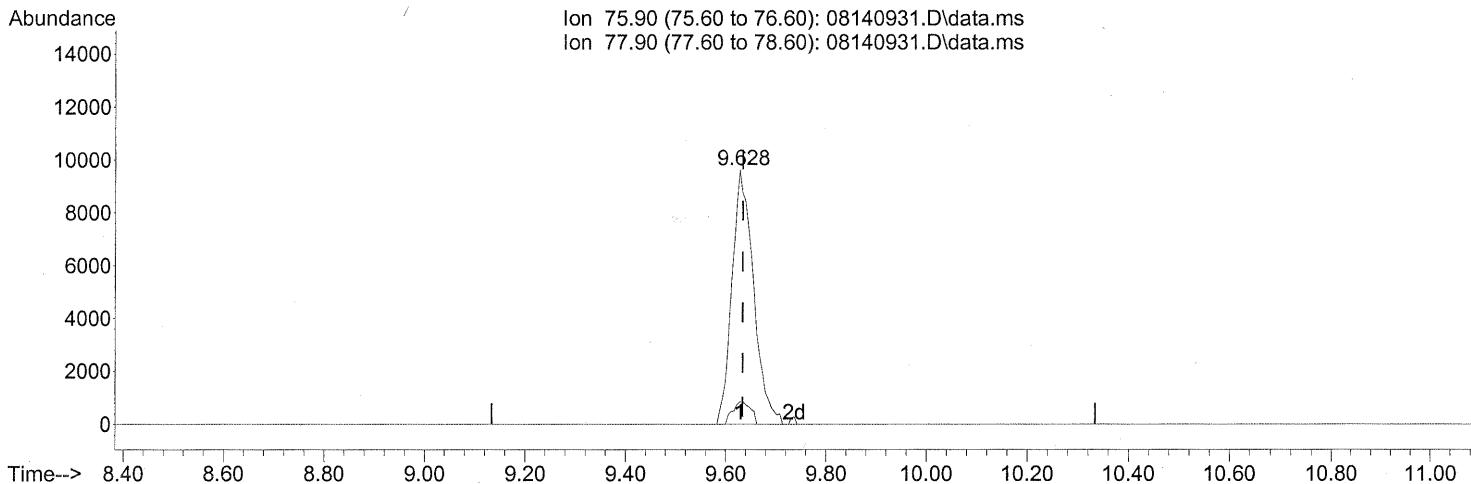
response 3583

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	136.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.628min (-0.006) 0.85ng

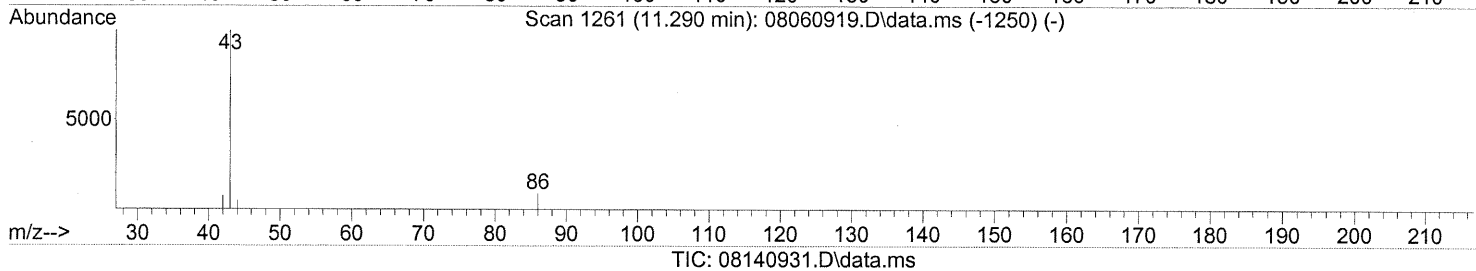
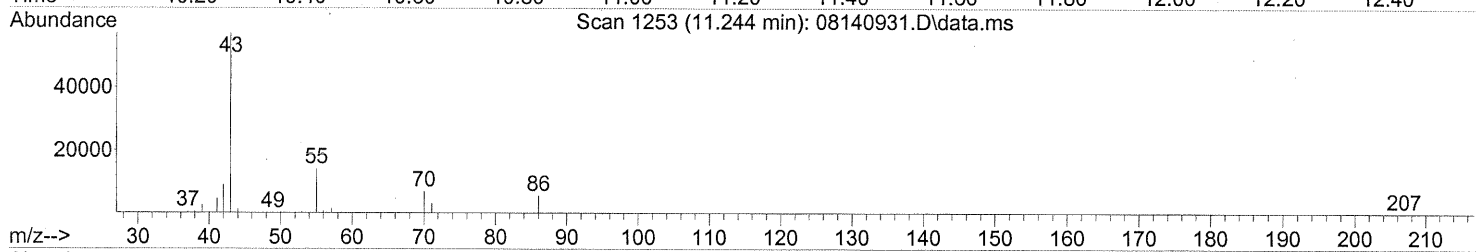
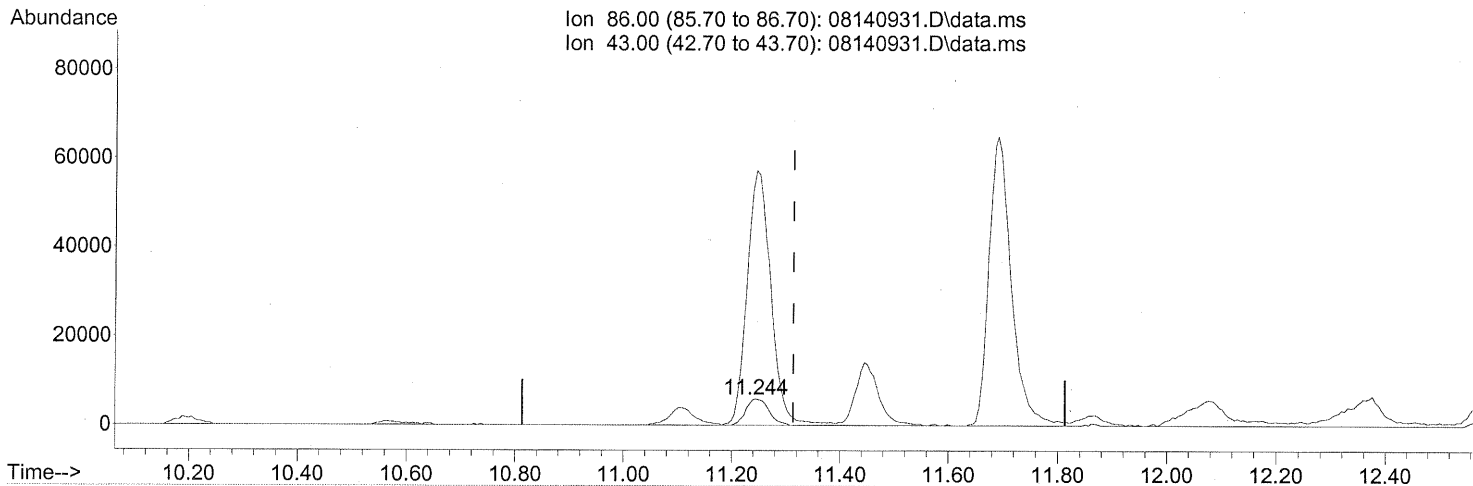
response 28726

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	7.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.244min (-0.069) 11.82ng

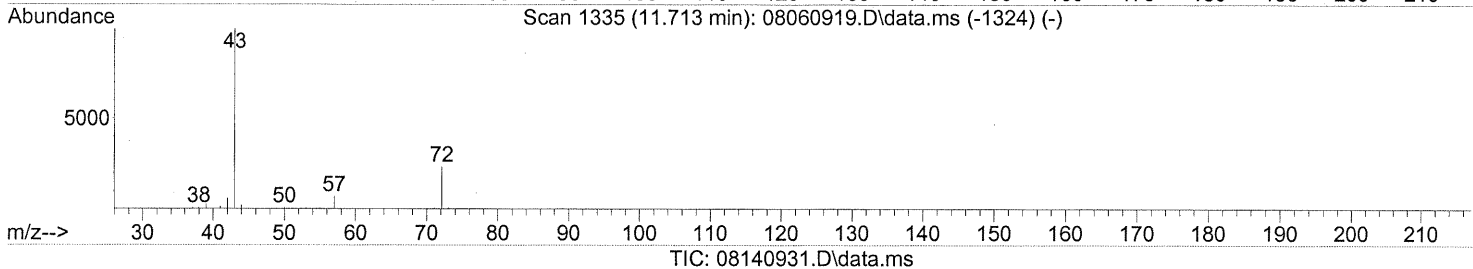
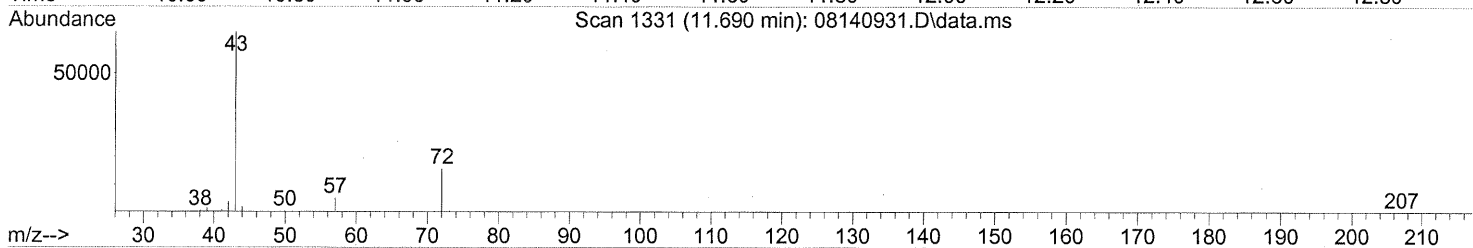
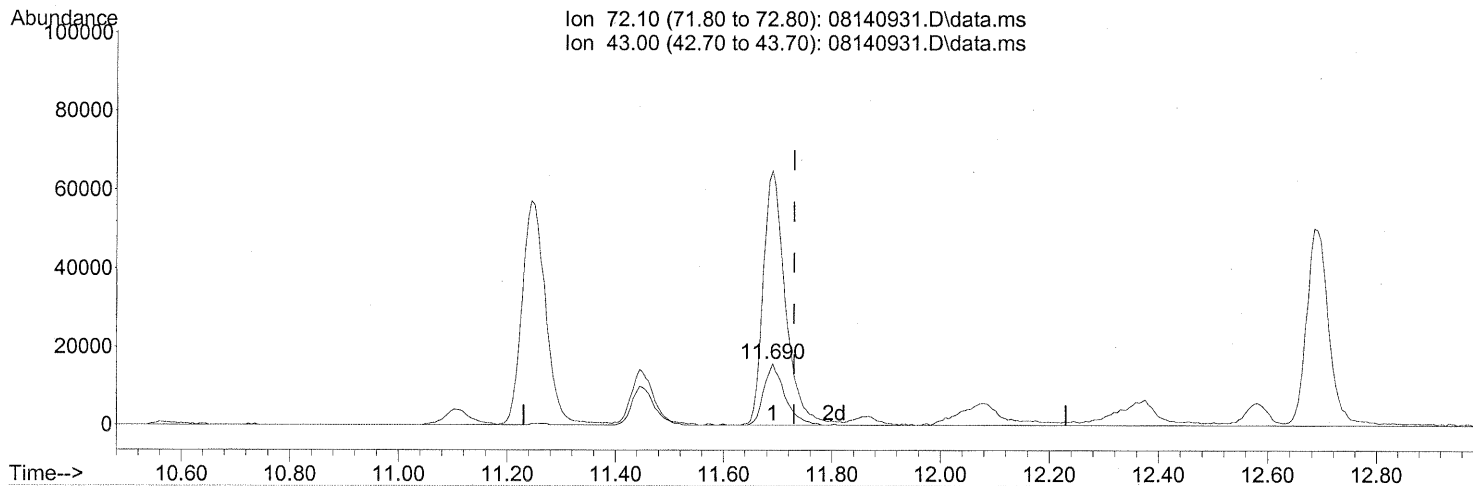
response 17268

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1006.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.690min (-0.040) 6.50ng

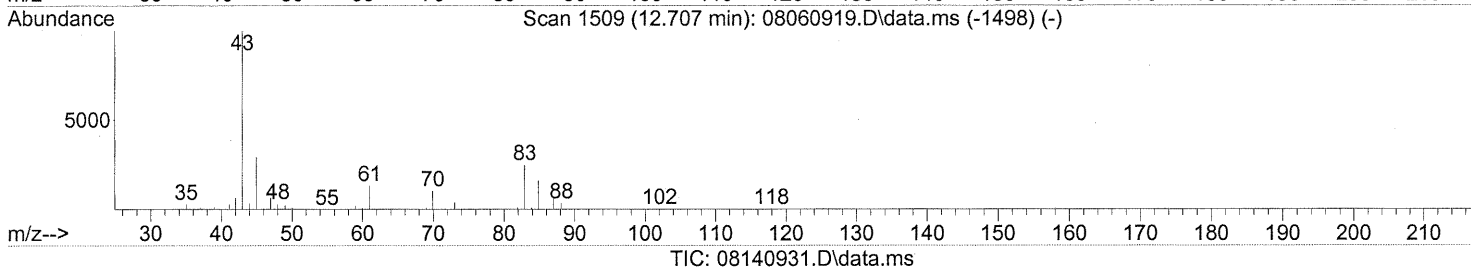
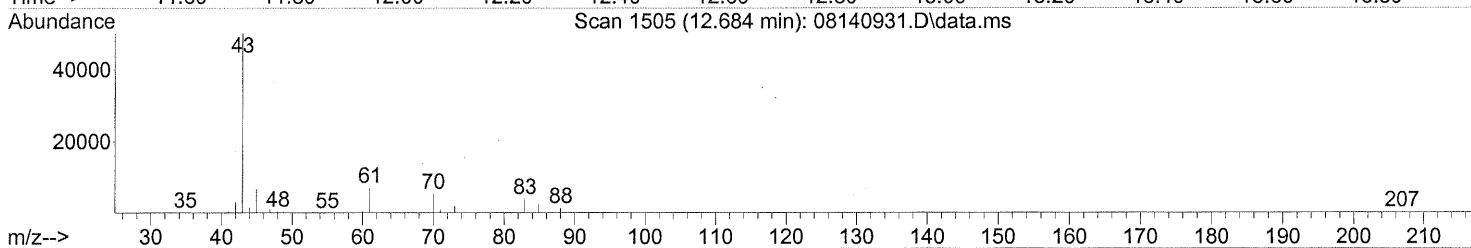
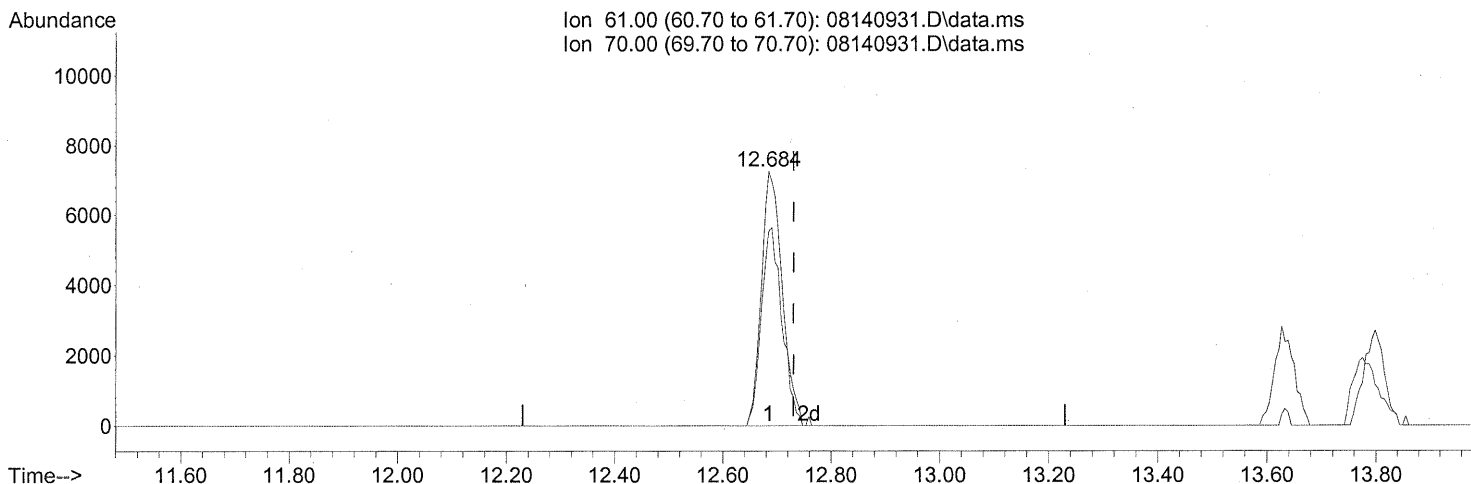
response 42120

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	440.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140931.D
Acq On : 15 Aug 2009 3:02
Operator : WA
Sample : P0902721-010 (1000mL)
Misc : Env. Health & Engineering 99955
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



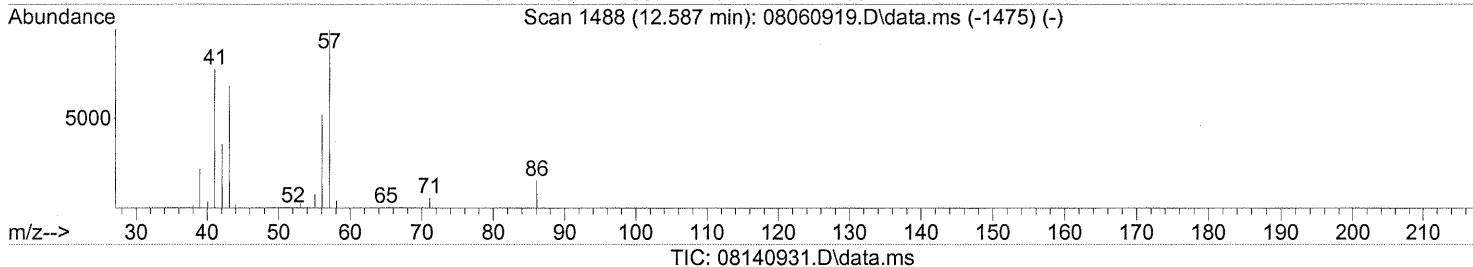
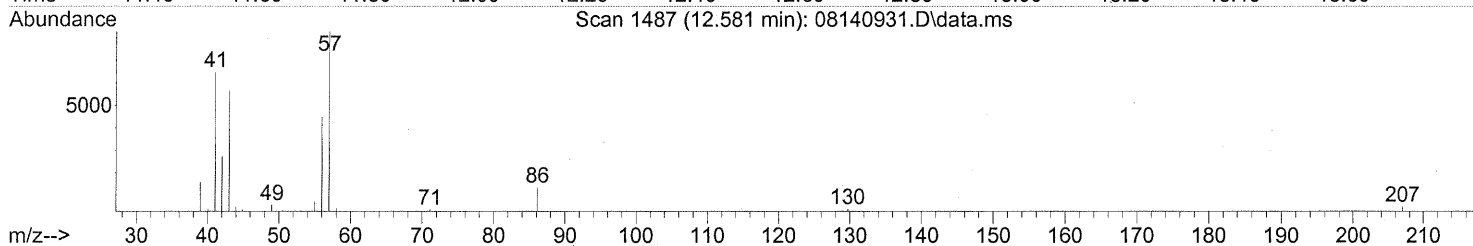
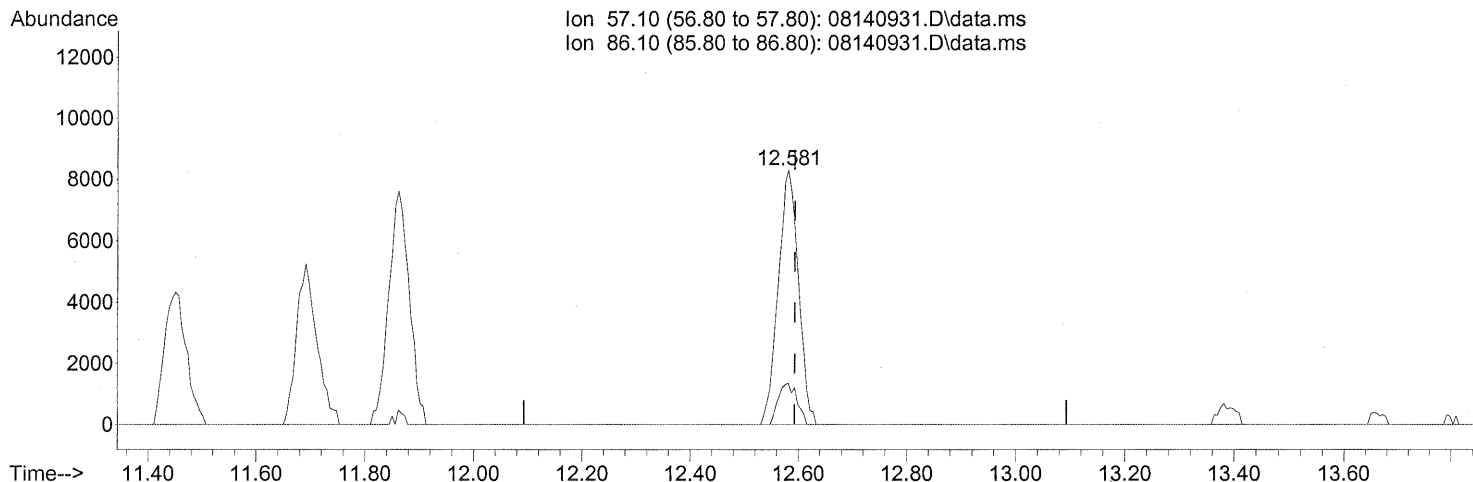
(30) Ethyl Acetate (T)
12.684min (-0.046) 5.74ng
response 19366

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	76.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(31) n-Hexane (T)

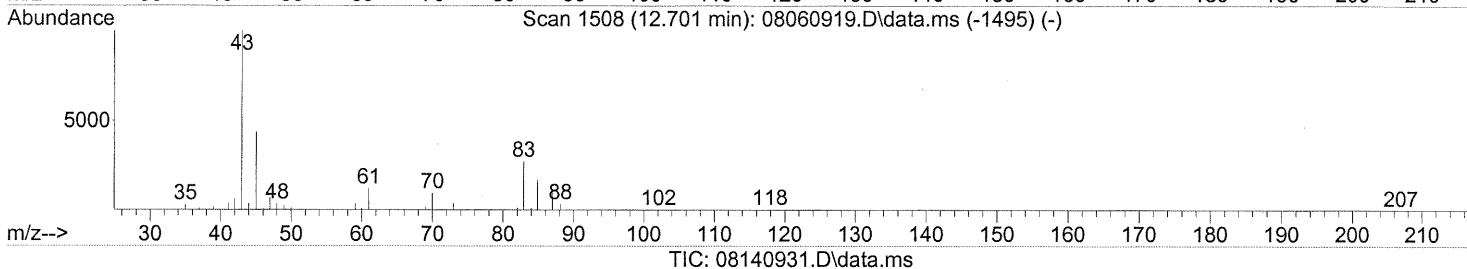
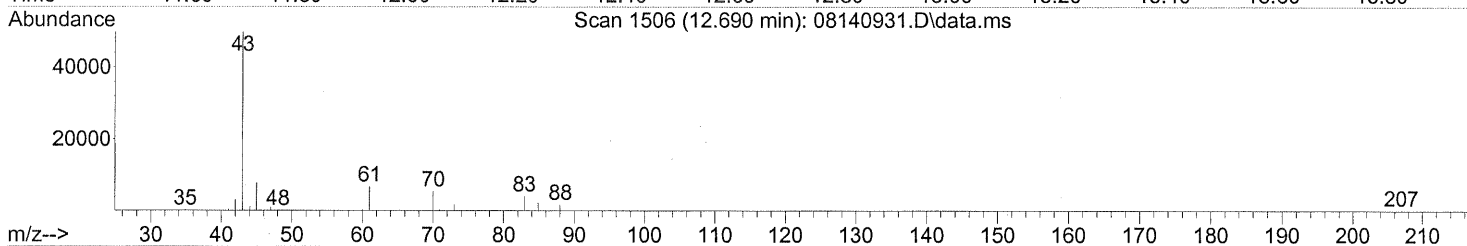
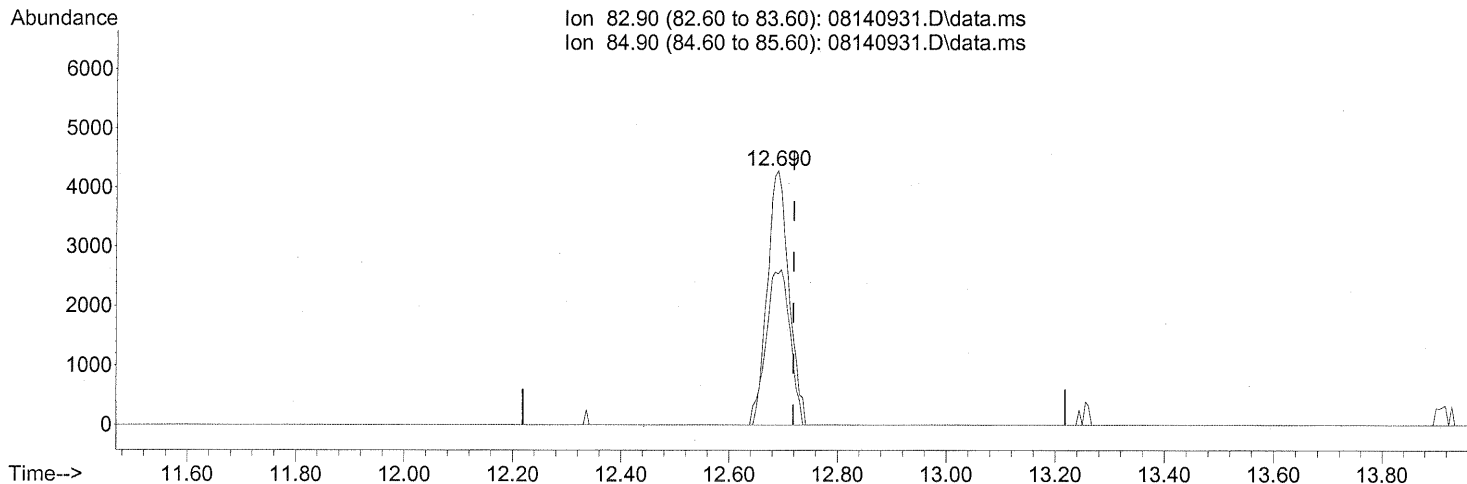
12.581min (-0.011) 1.24ng
 response 21427

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



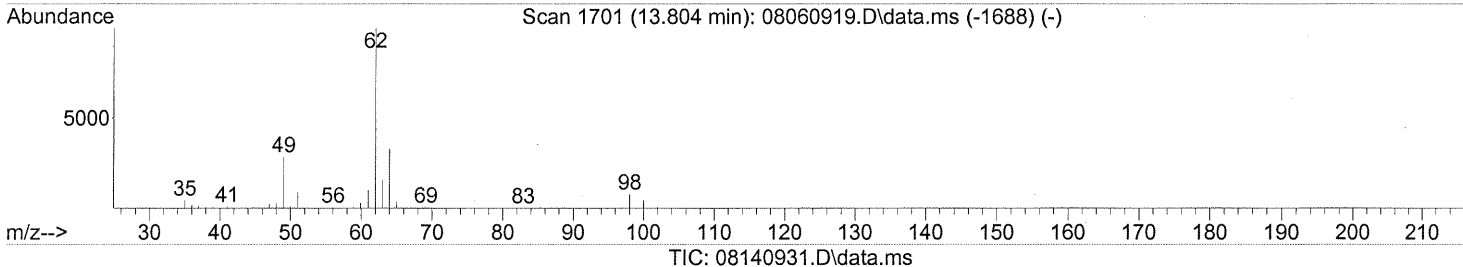
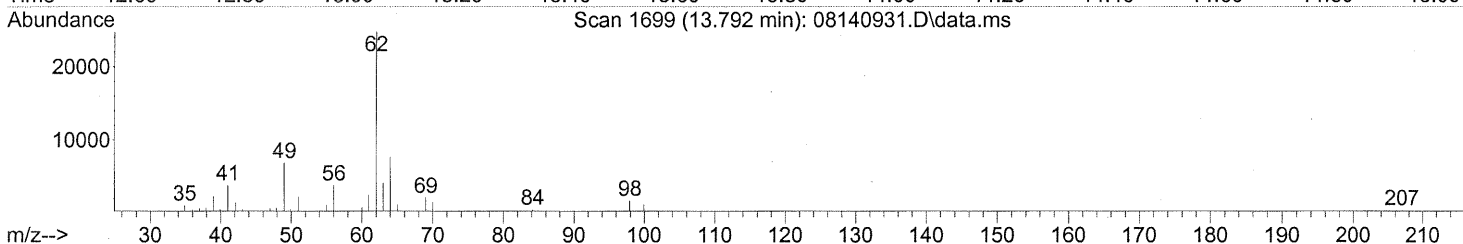
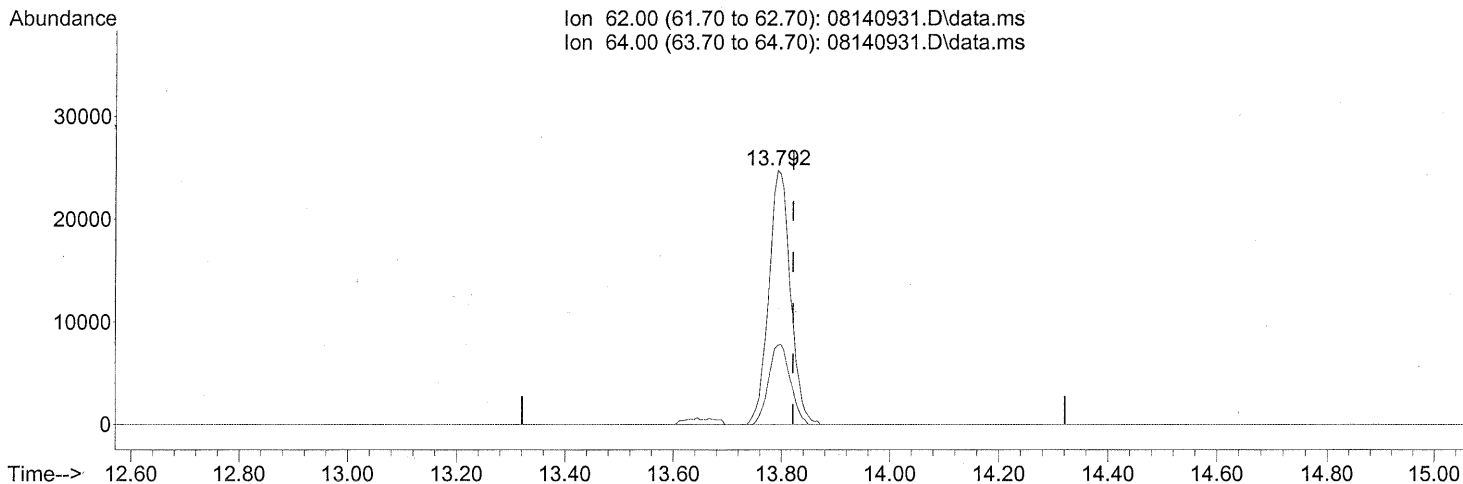
(32) Chloroform (T)
 12.690min (-0.029) 0.79ng
 response 11978

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	66.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 4.96ng

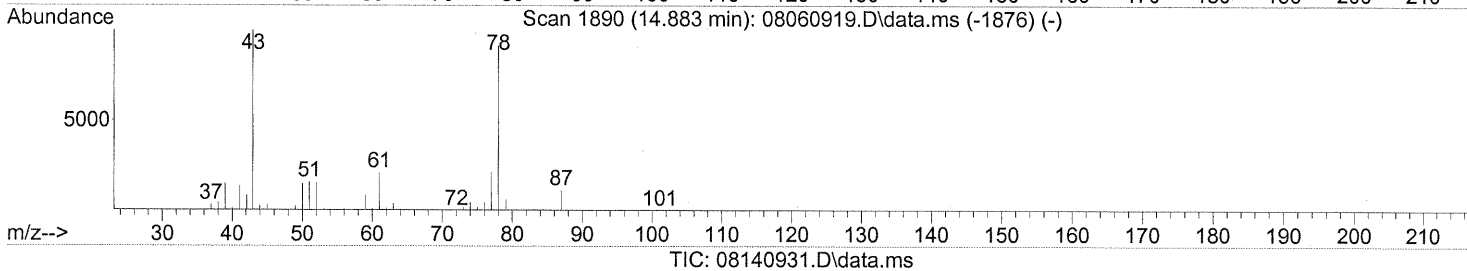
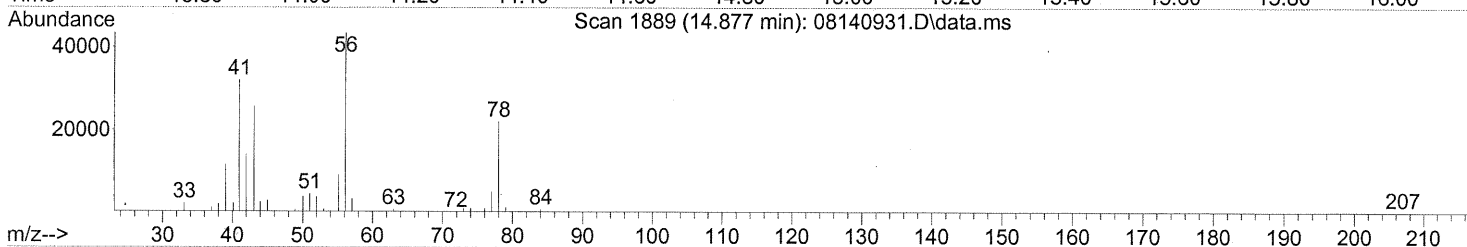
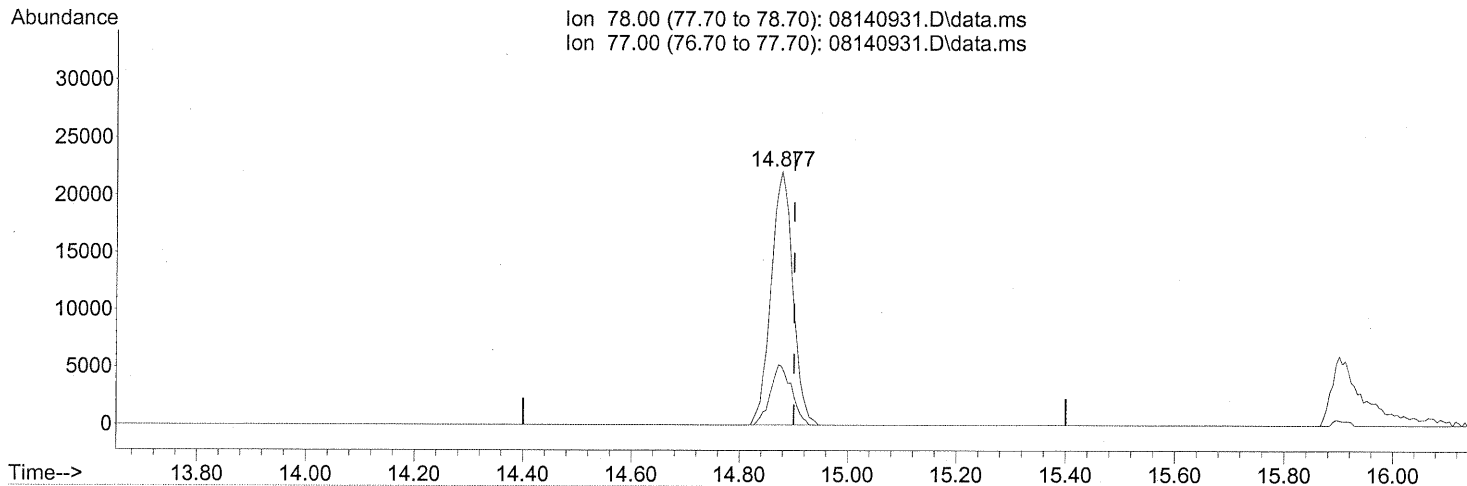
response 68970

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140931.D
Acq On : 15 Aug 2009 3:02
Operator : WA
Sample : P0902721-010 (1000mL)
Misc : Env. Health & Engineering 99955
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



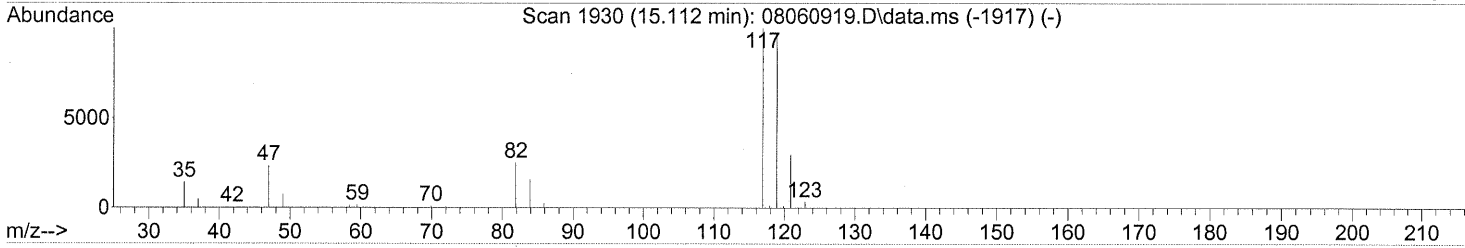
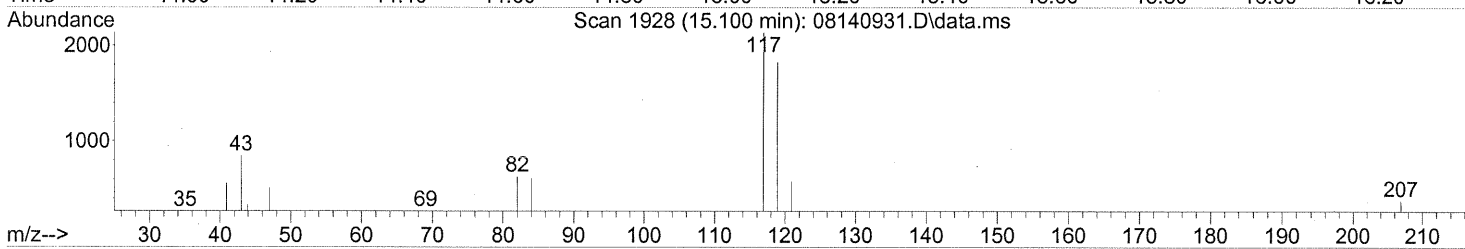
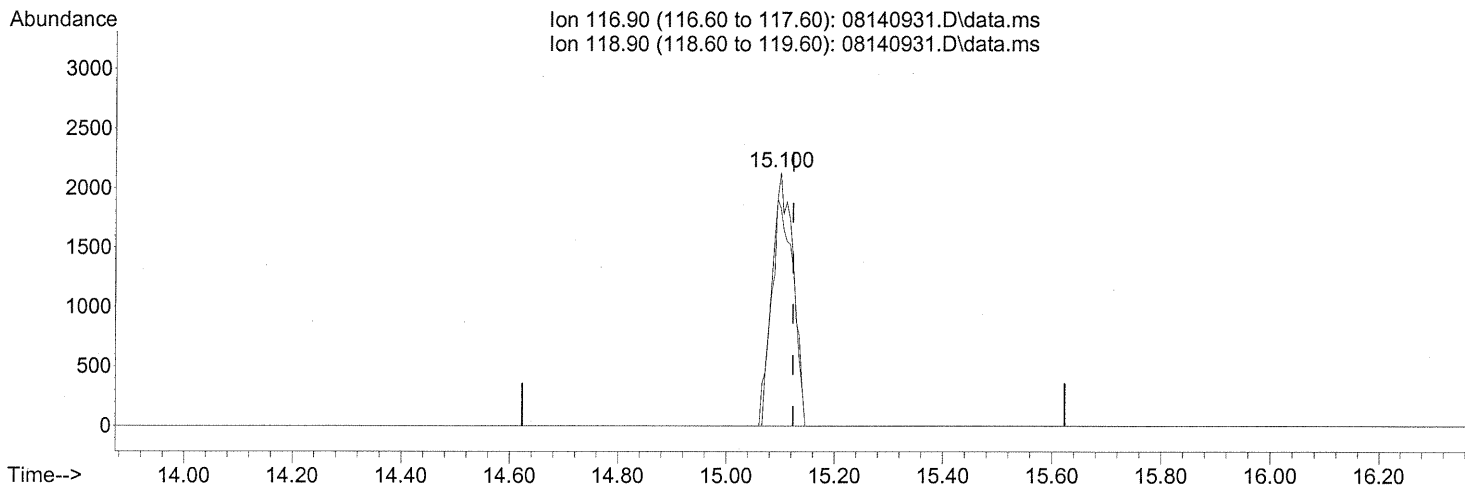
(41) Benzene (T)
14.877min (-0.023) 1.59ng
response 61805

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140931.D\data.ms

(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.47ng

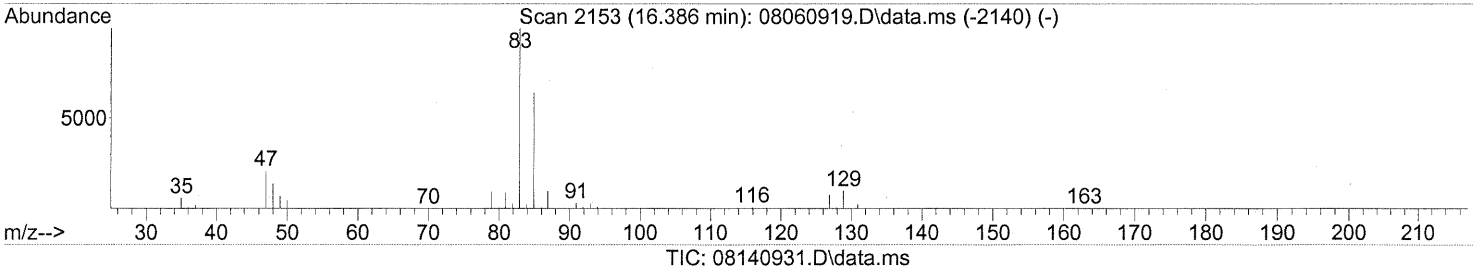
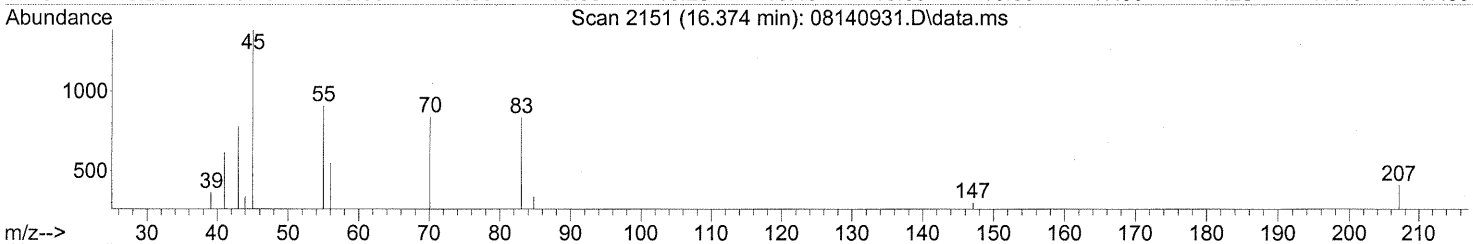
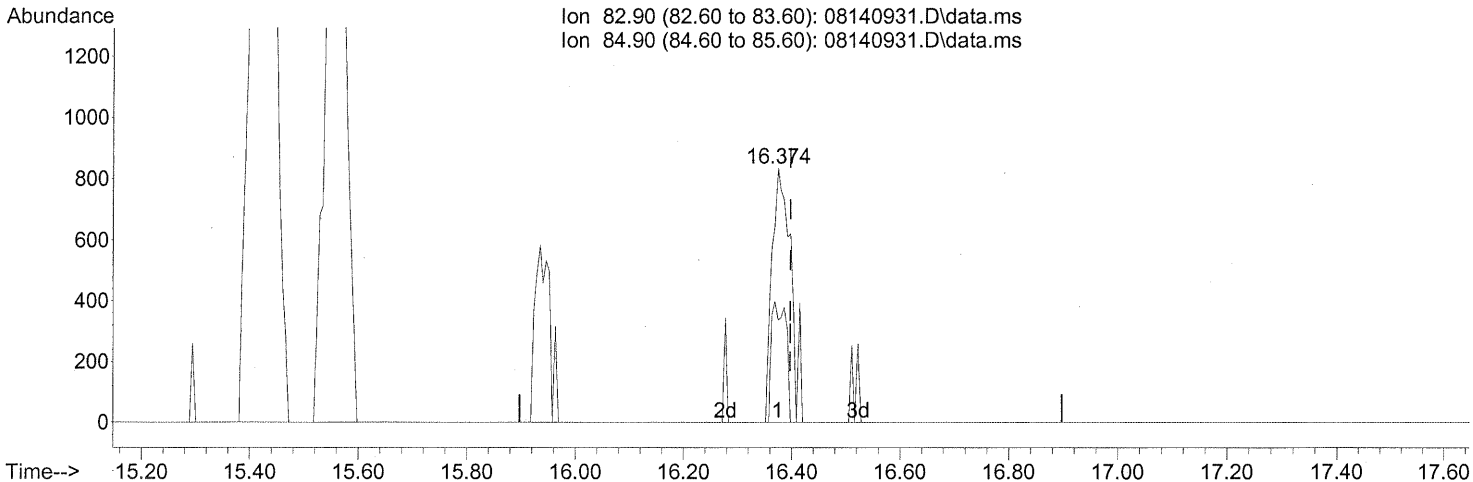
response 5759

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	92.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.374min (-0.023) 0.16ng

response 2021

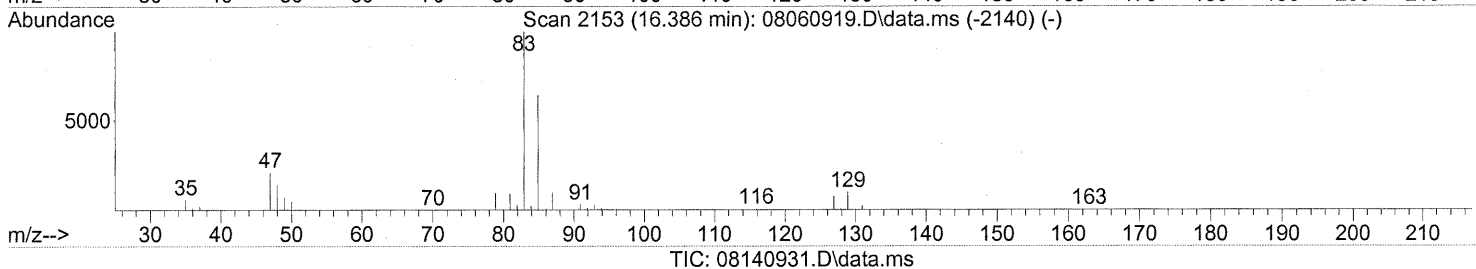
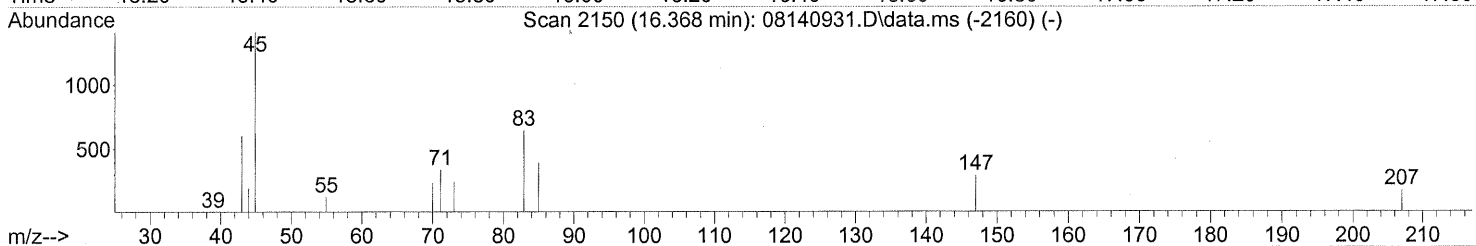
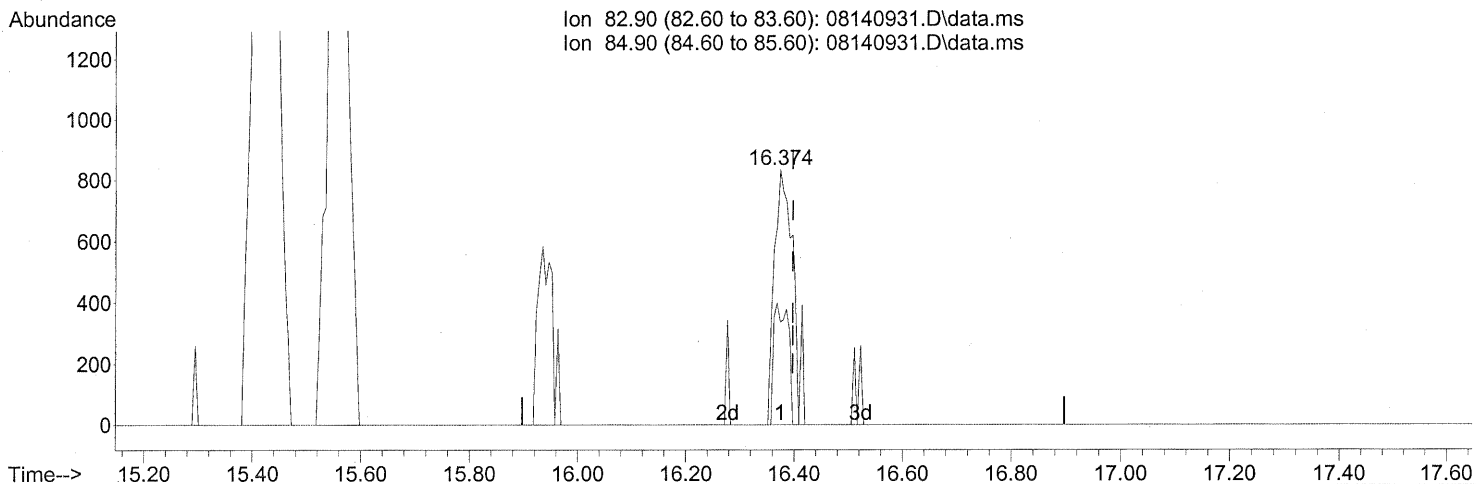
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	35.82#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.374min (-0.023) 0.16ng

AFTER SUBTRACTION

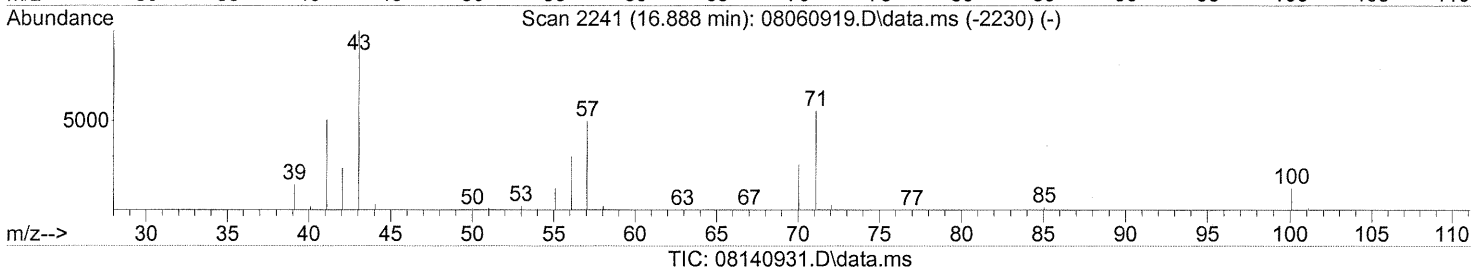
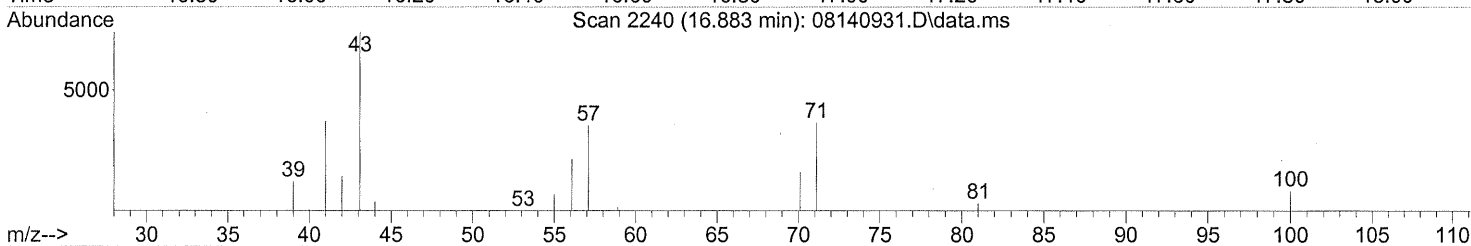
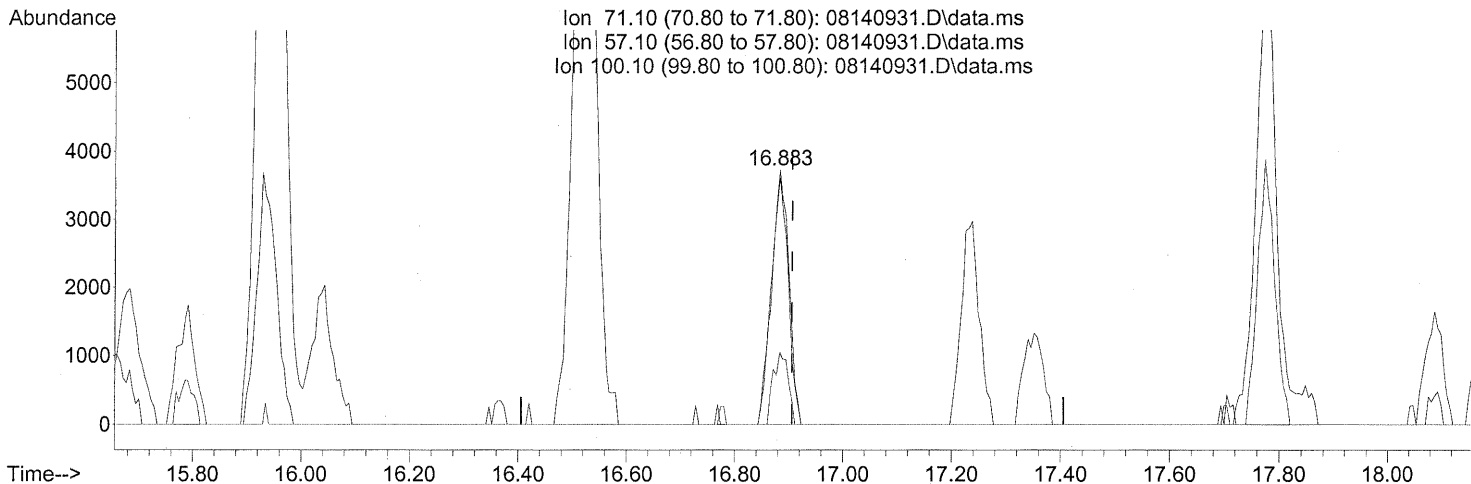
response 2021

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	35.82#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



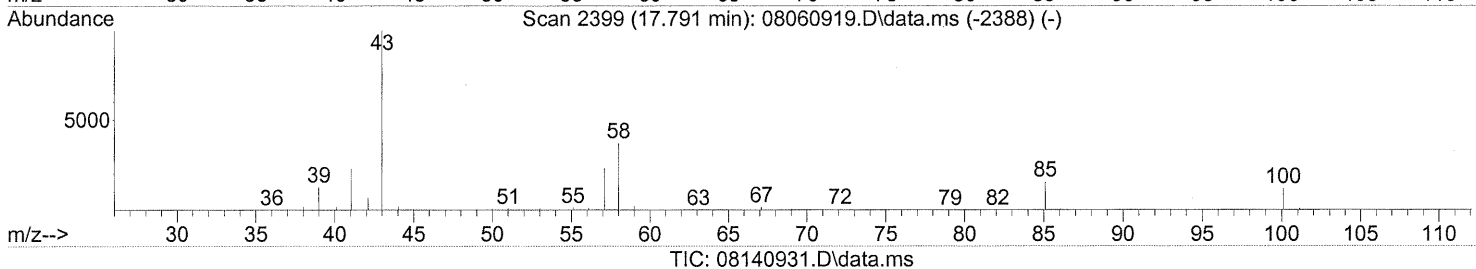
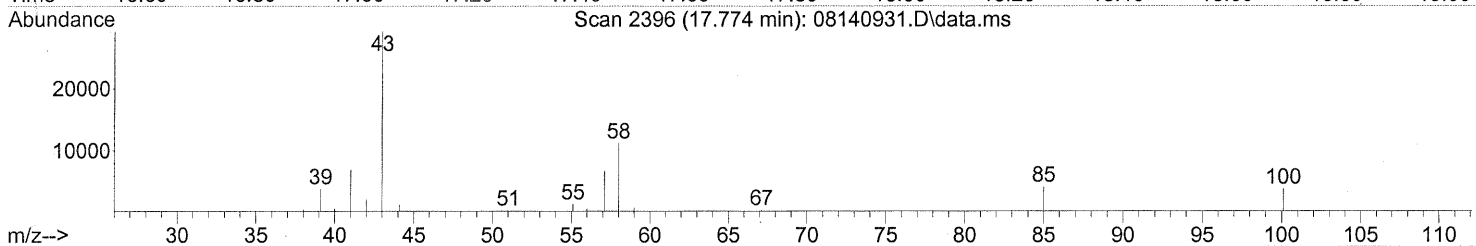
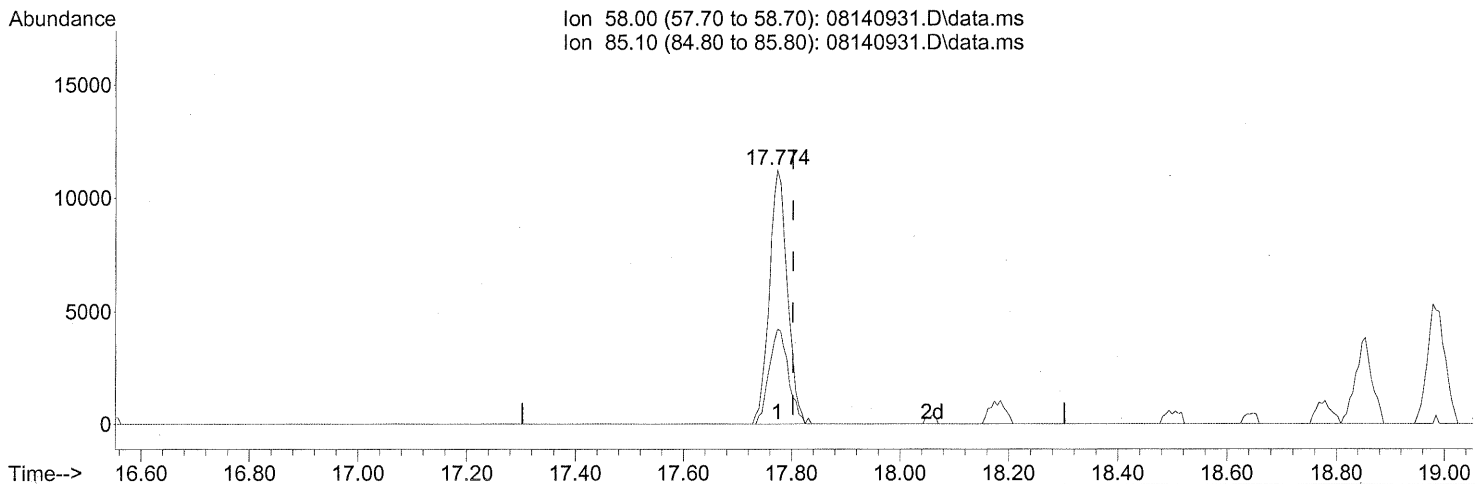
(51) n-Heptane (T)
 16.883min (-0.023) 0.80ng
 response 8383

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	92.58
100.10	26.40	24.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.774min (-0.029) 2.81ng

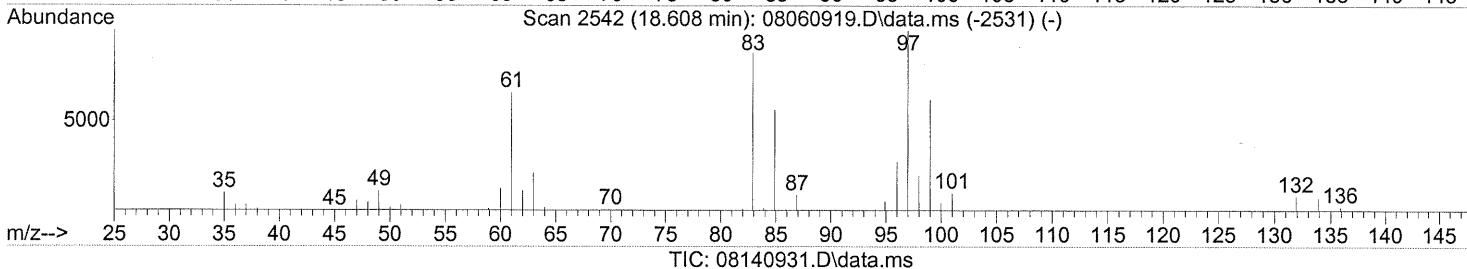
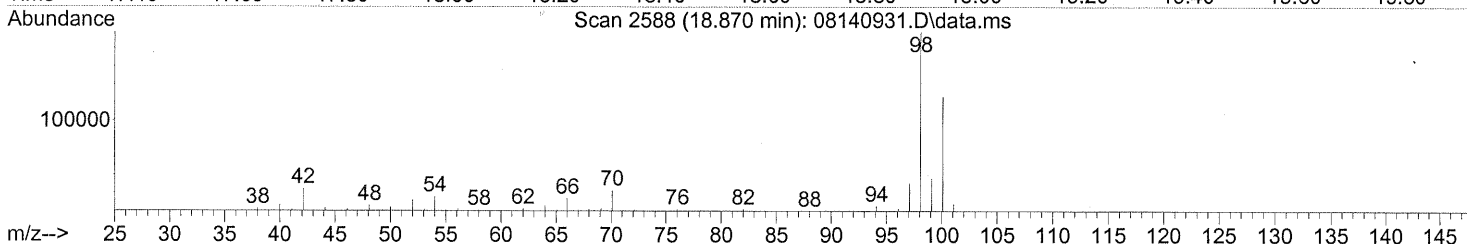
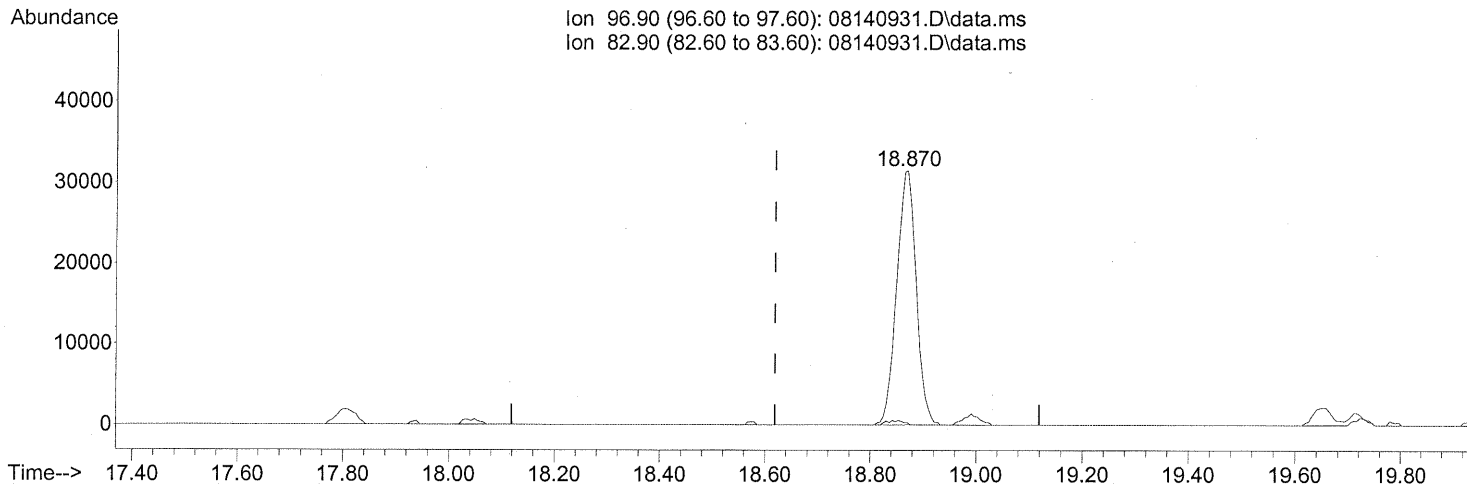
response 26218

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	39.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.870min (+0.251) 9.47ng

response 80716

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

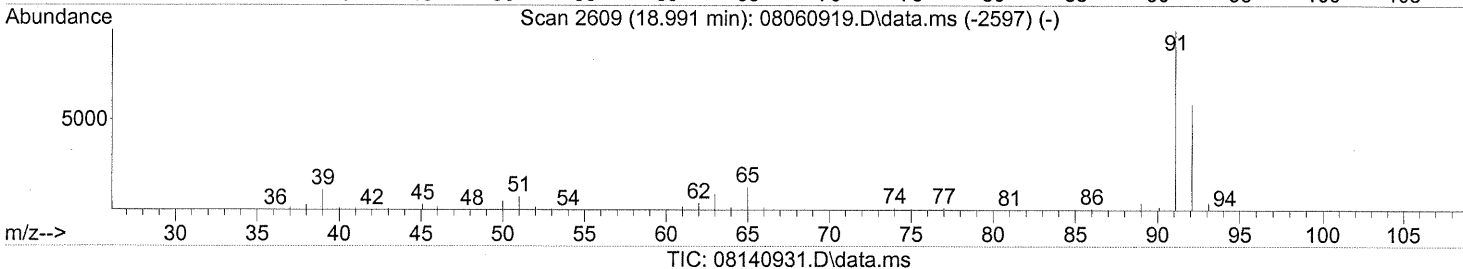
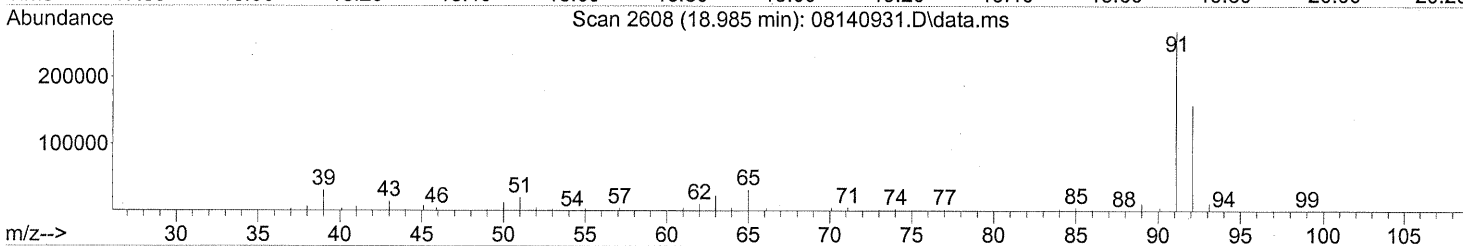
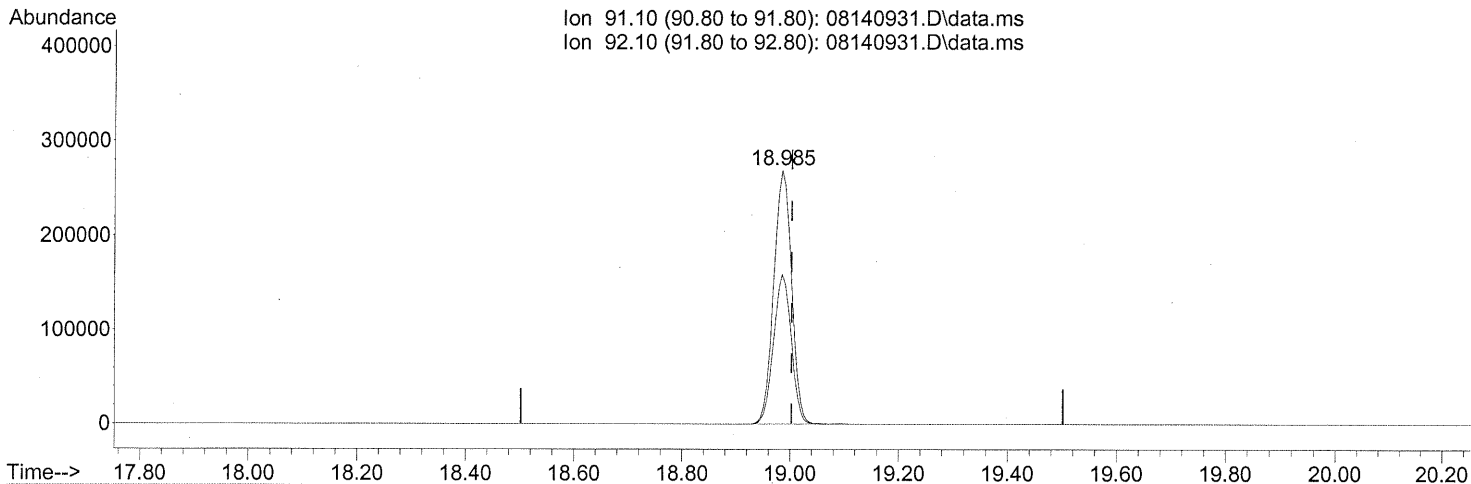
FP M 8/20/09

R 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



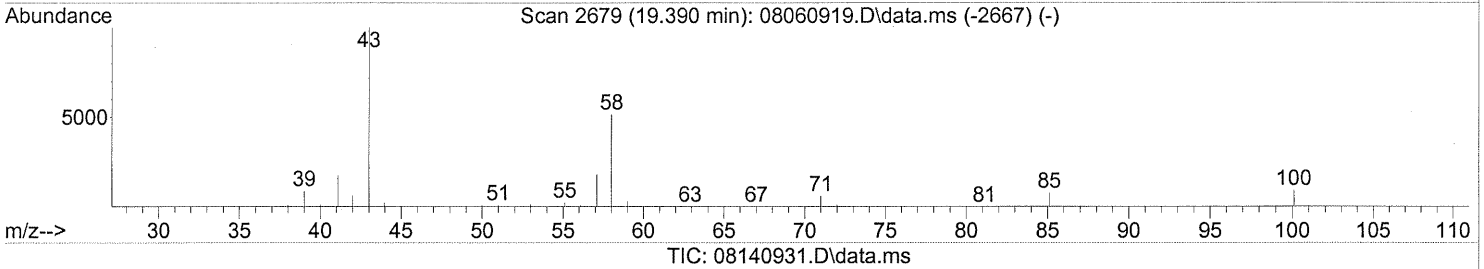
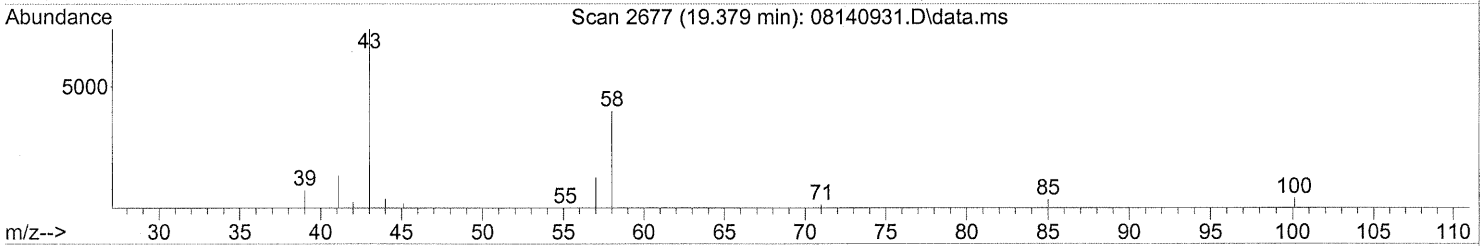
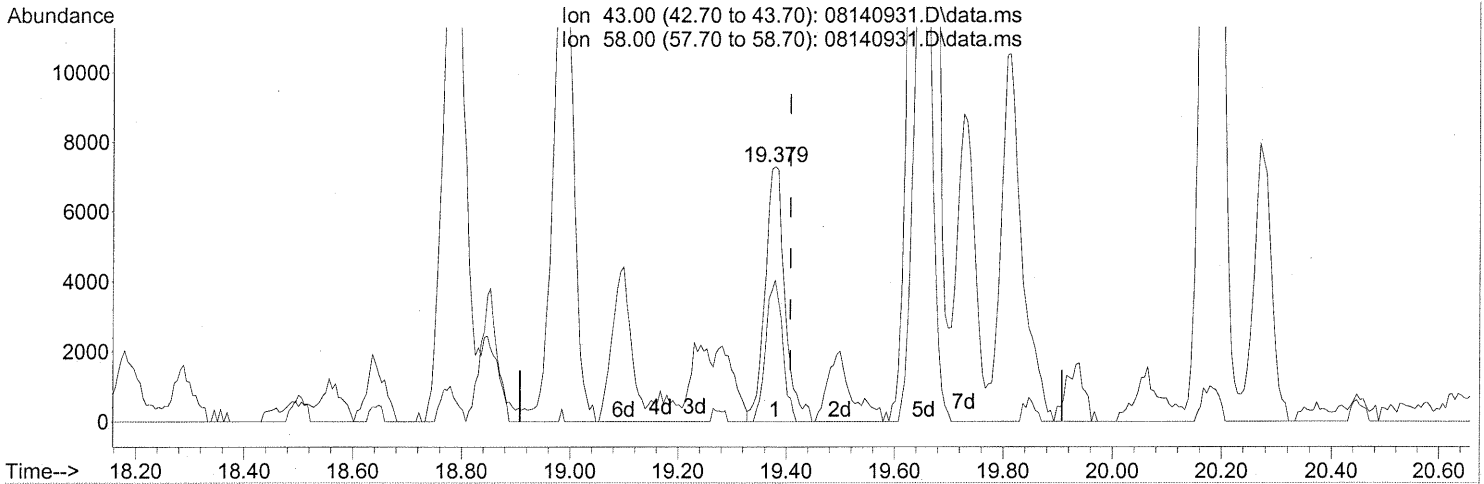
(58) Toluene (T)
 18.985min (-0.017) 16.64ng
 response 613915

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	58.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



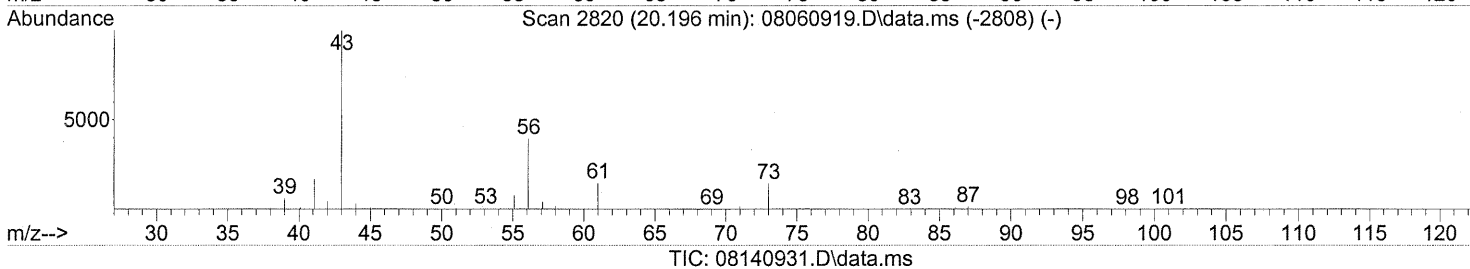
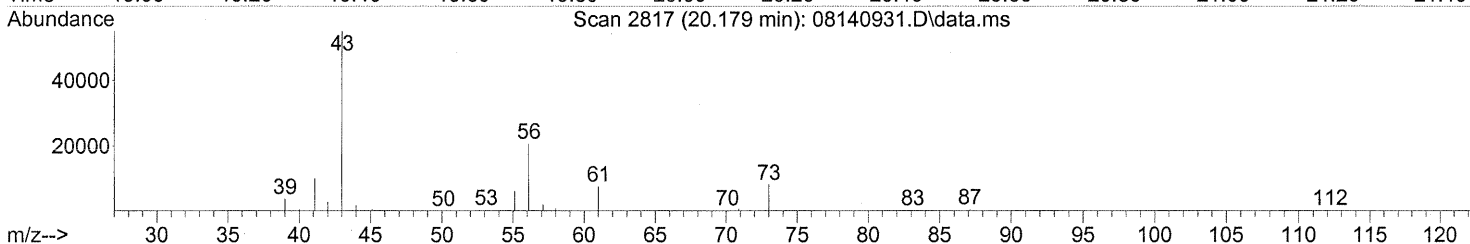
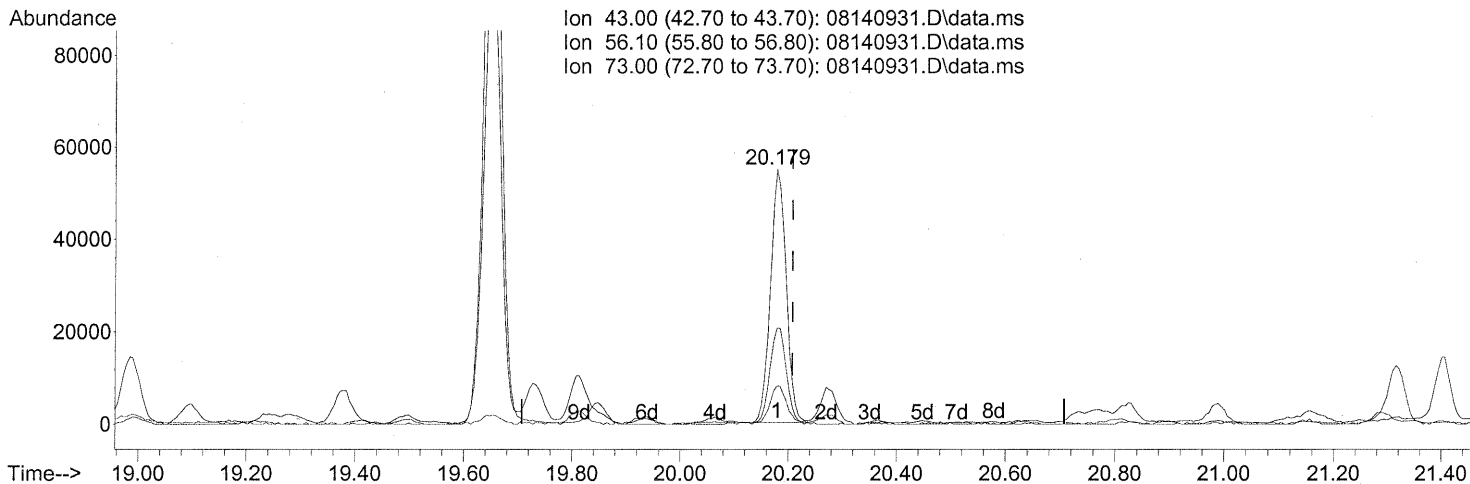
(59) 2-Hexanone (T)
 19.379min (-0.029) 0.76ng
 response 18547

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	47.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



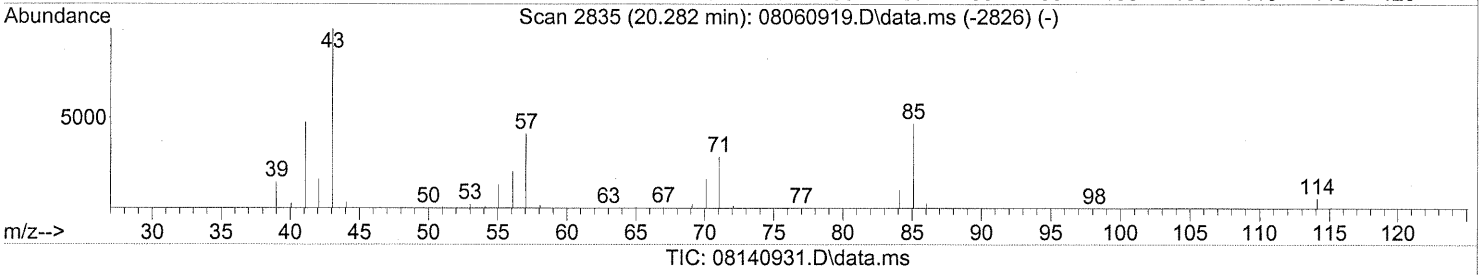
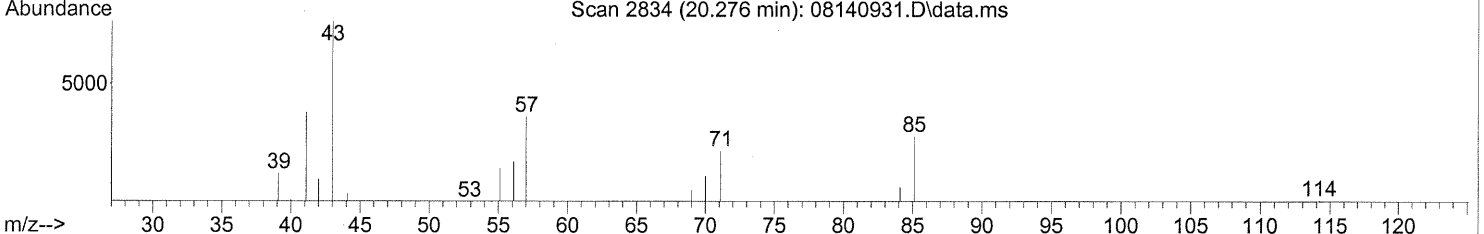
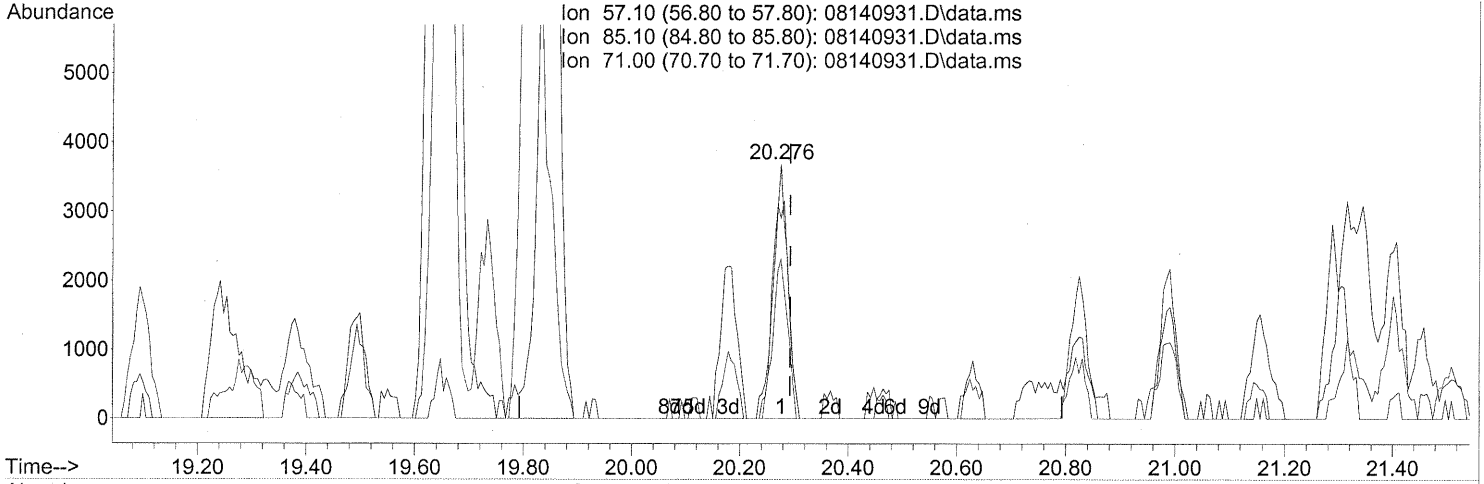
(62) n-Butyl Acetate (T)
 20.179min (-0.029) 3.82ng
 response 110608

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.56
73.00	14.80	16.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



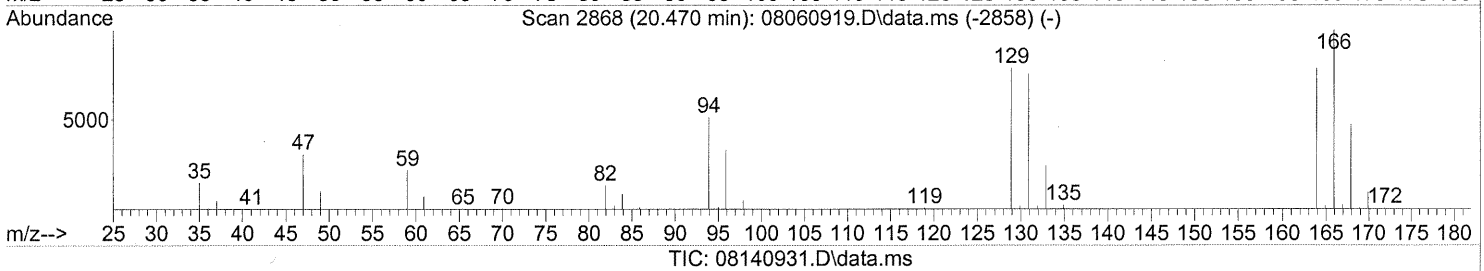
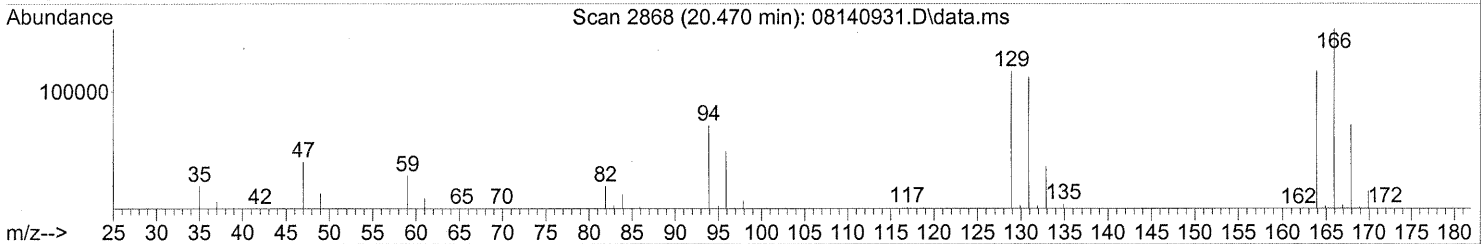
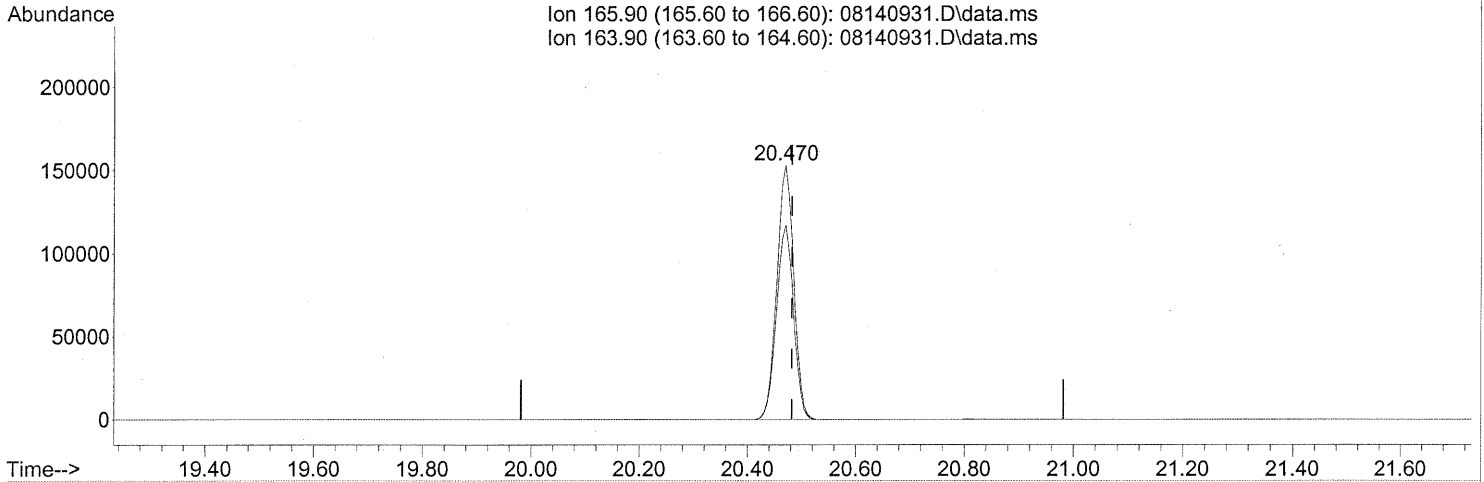
(63) n-Octane (T)
 20.276min (-0.017) 0.78ng
 response 6953

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	96.20
71.00	68.10	62.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.470min (-0.011) 38.81ng

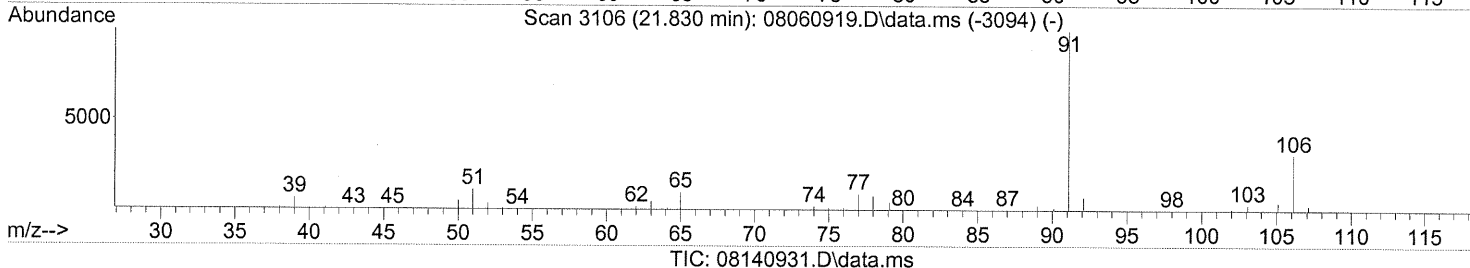
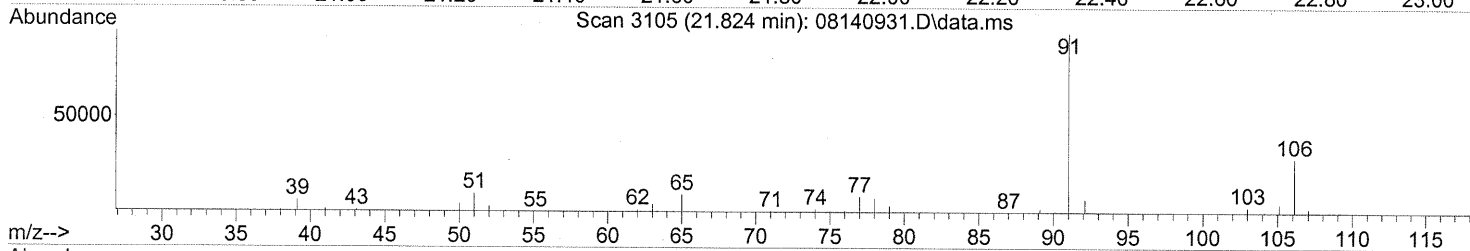
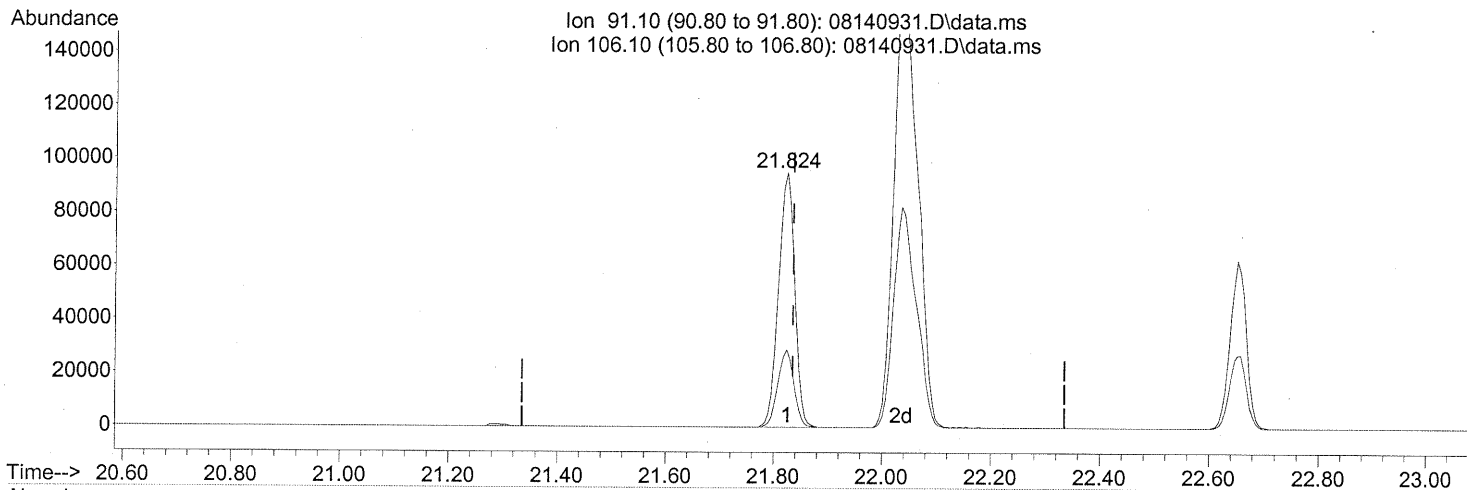
response 331382

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	77.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



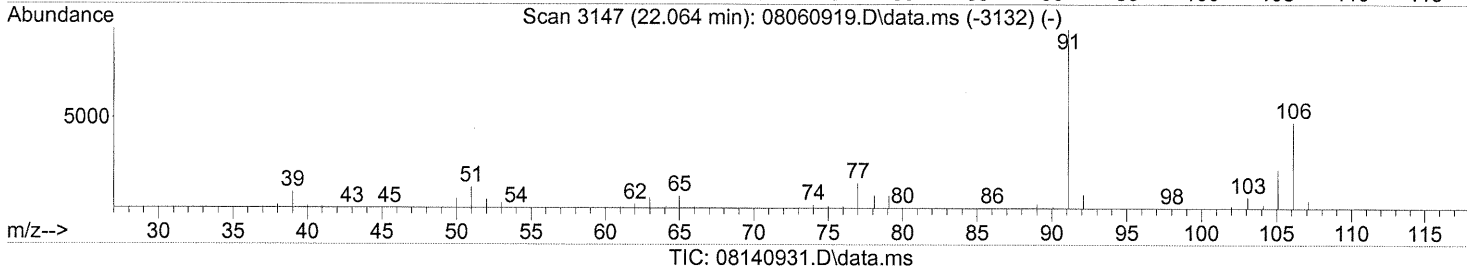
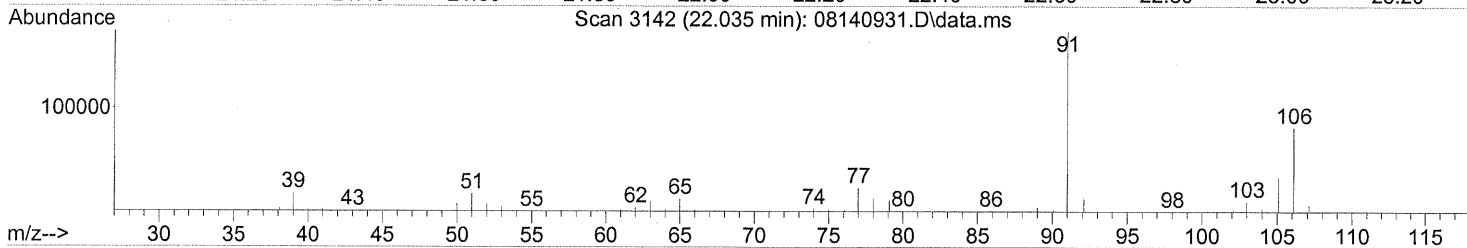
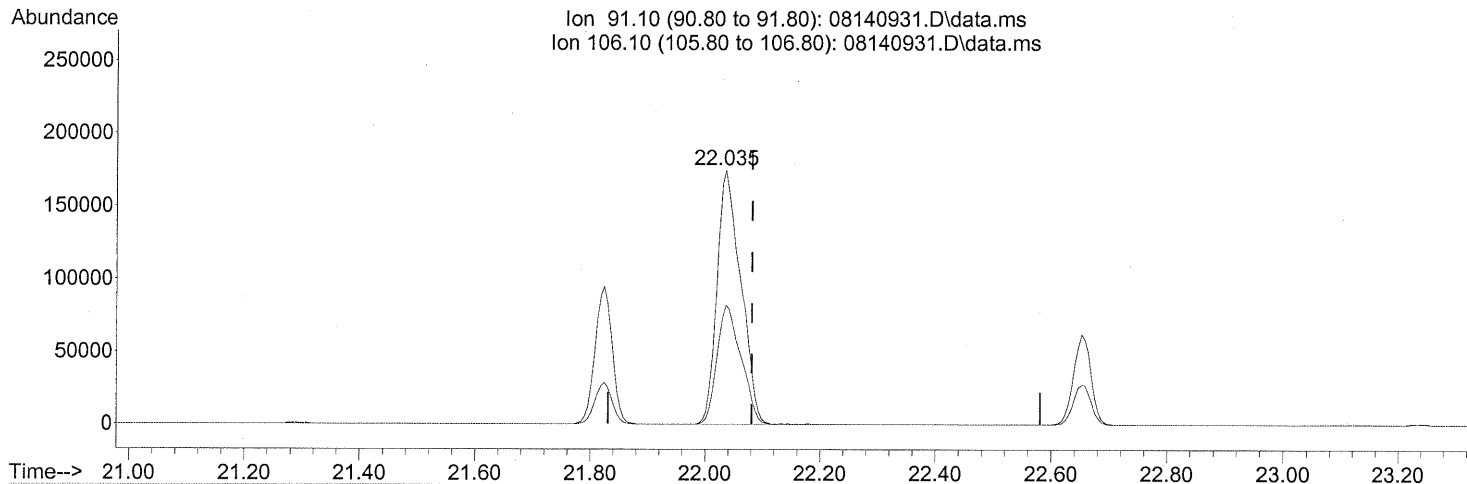
(66) Ethylbenzene (T)
 21.824min (-0.011) 4.67ng
 response 196965

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 14.67ng

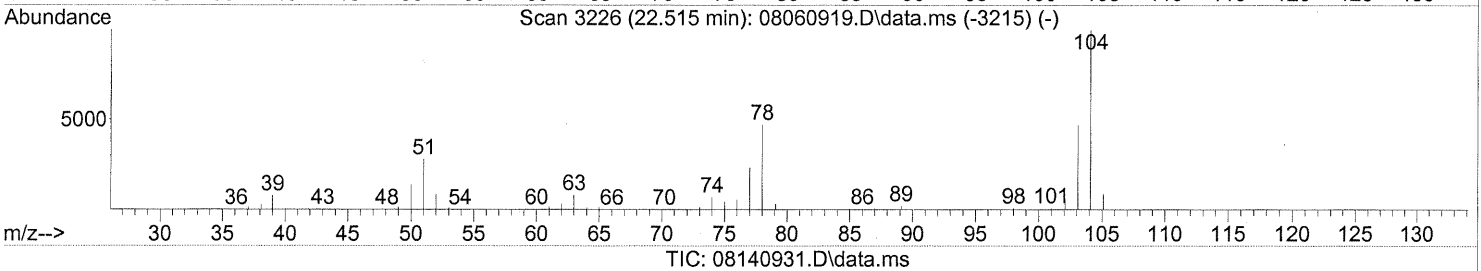
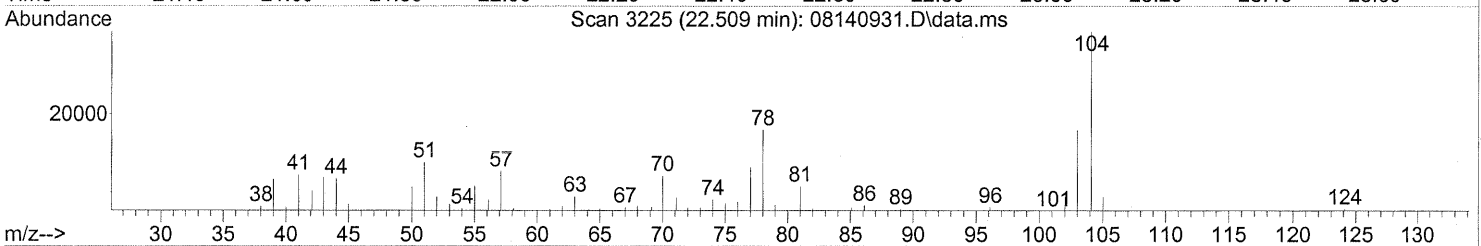
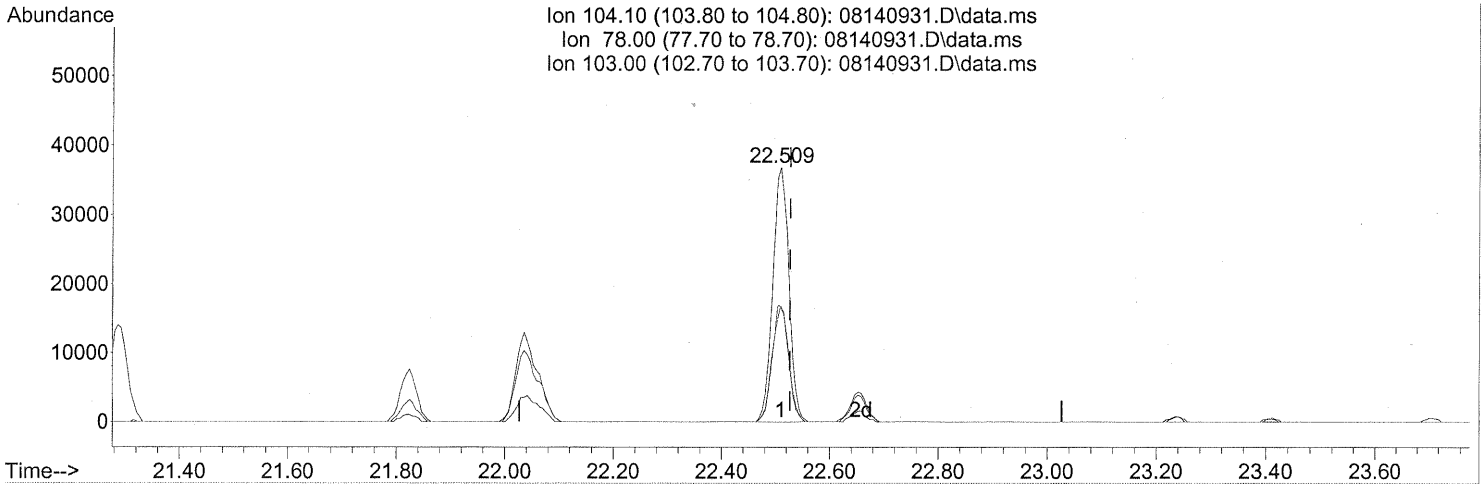
response 500561

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



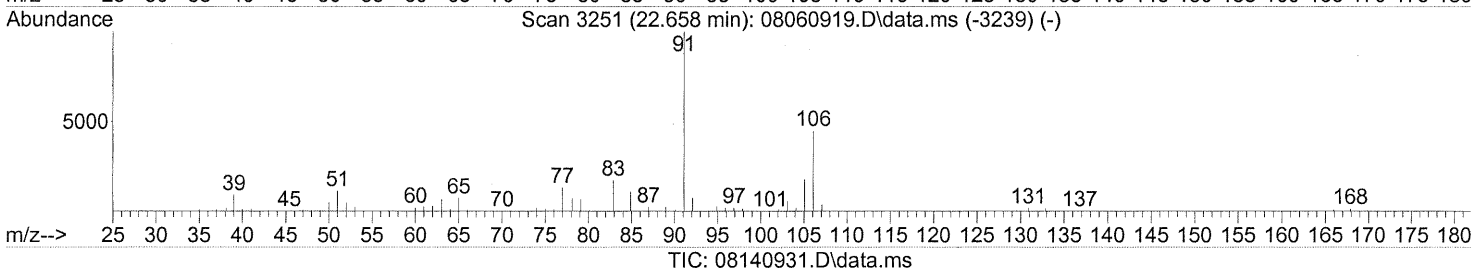
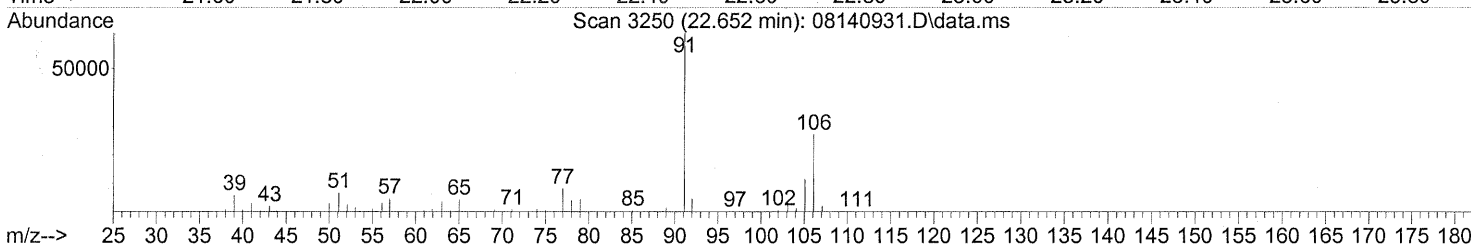
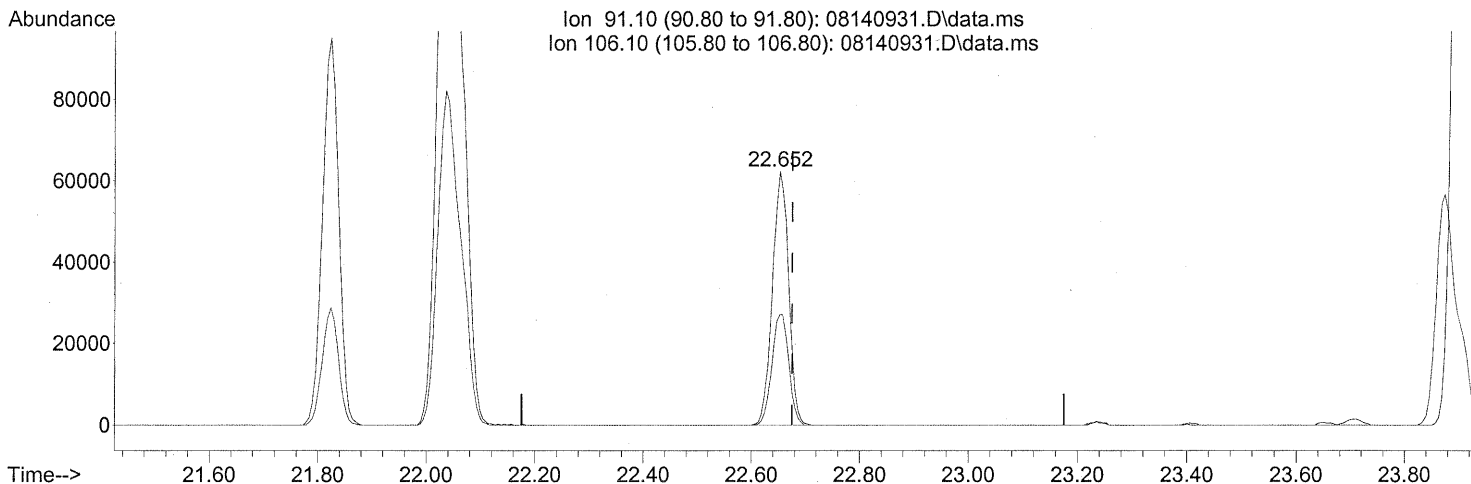
(69) Styrene (T)
 22.509min (-0.017) 3.10ng
 response 76422

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	46.98
103.00	46.20	46.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140931.D
Acq On : 15 Aug 2009 3:02
Operator : WA
Sample : P0902721-010 (1000mL)
Misc : Env. Health & Engineering 99955
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 3.79ng

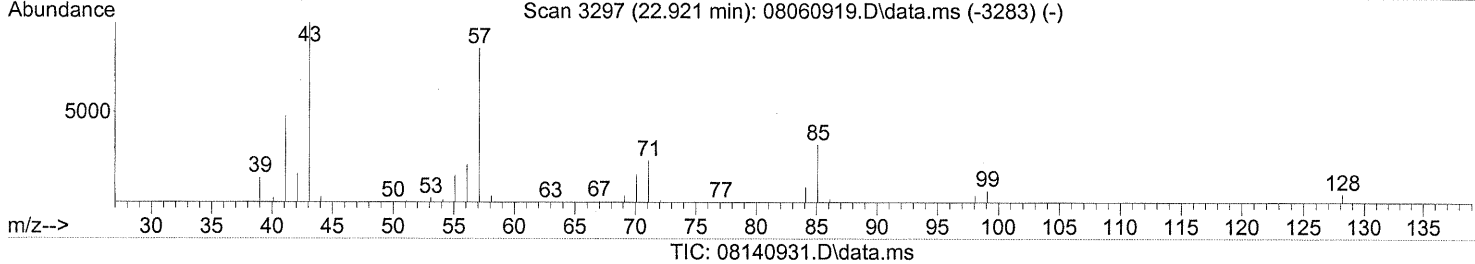
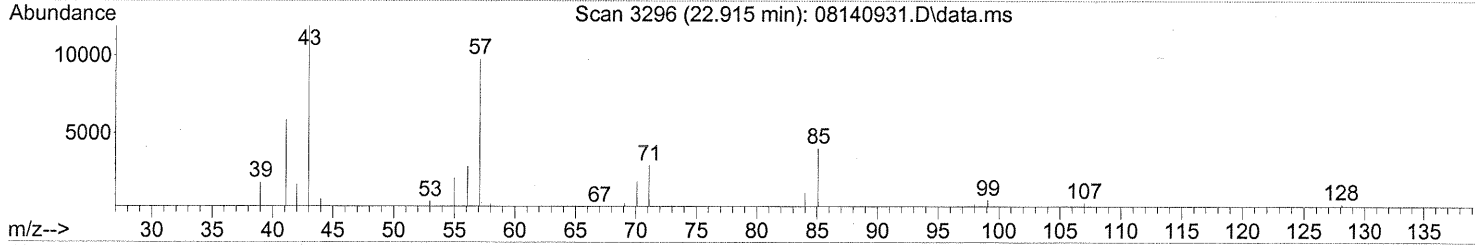
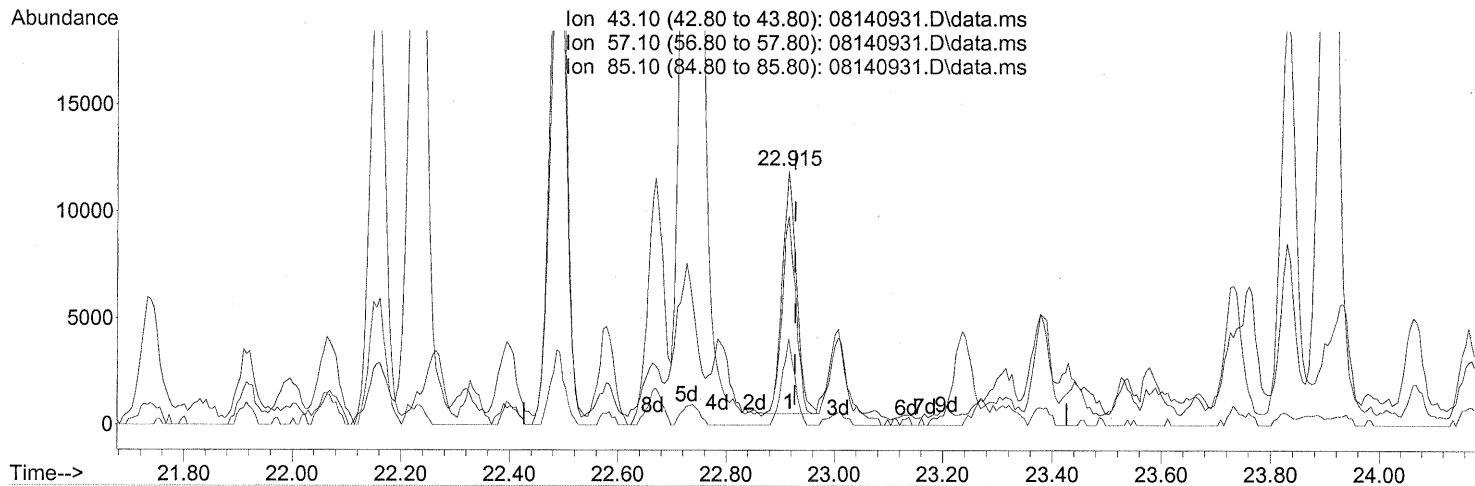
response 129568

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 20 09:57:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



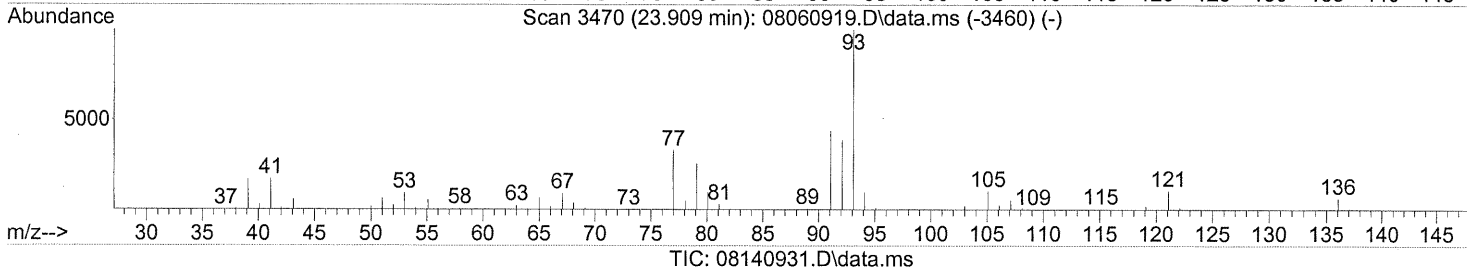
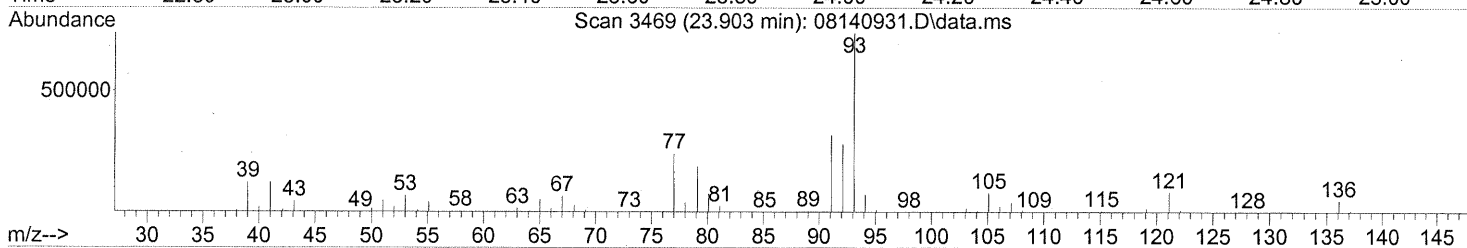
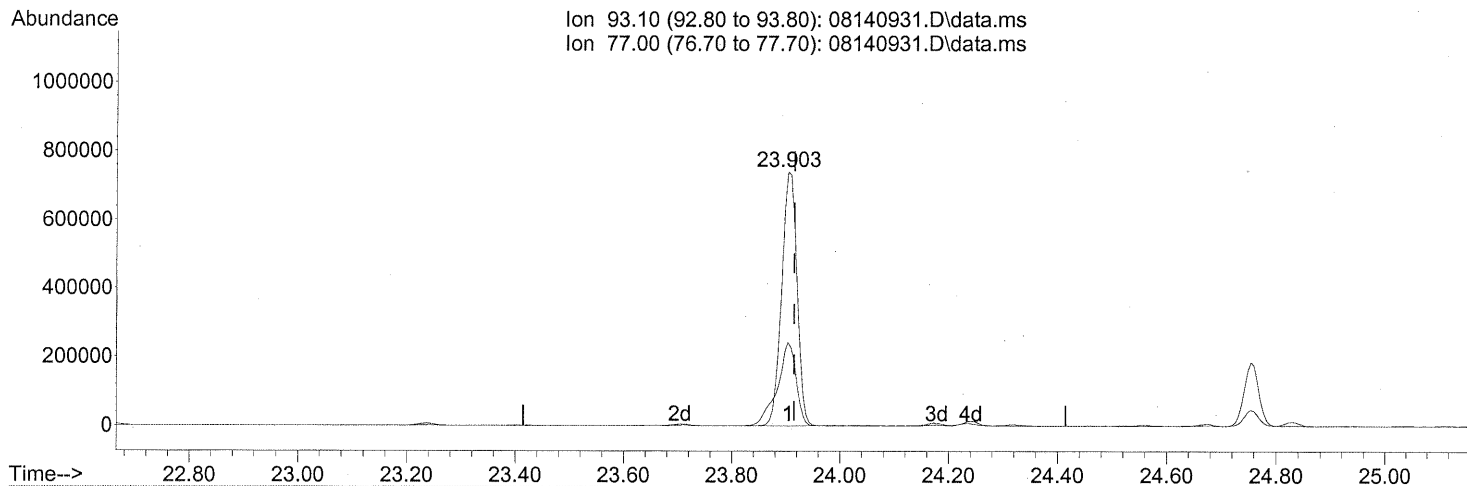
(71) n-Nonane (T)
 22.915min (-0.011) 0.93ng
 response 21048

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	79.93
85.10	30.40	31.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



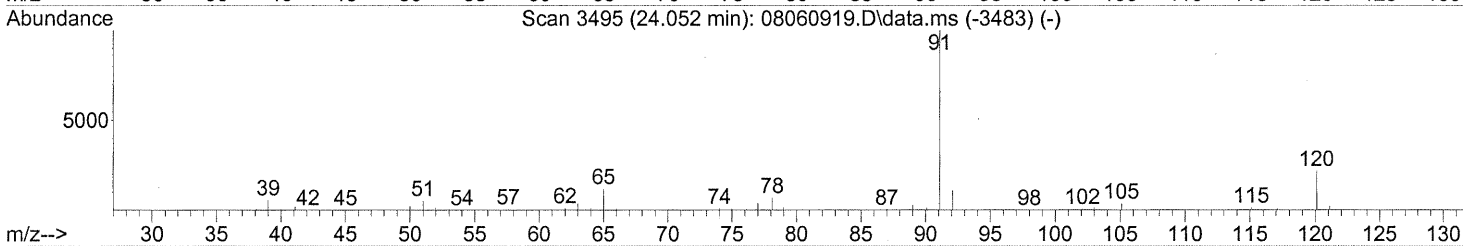
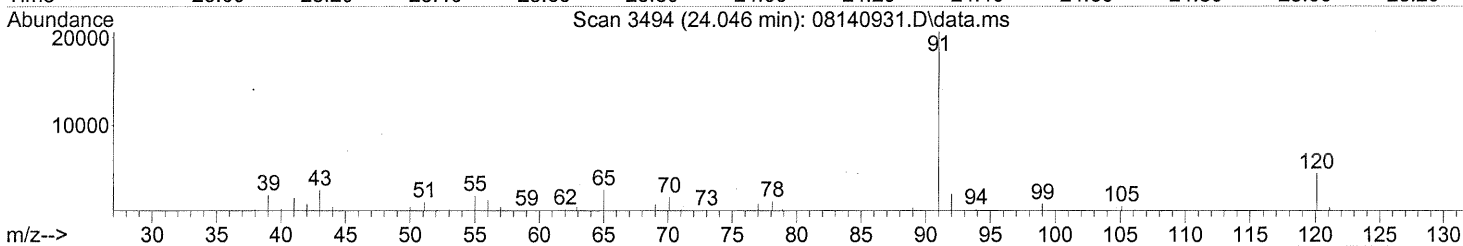
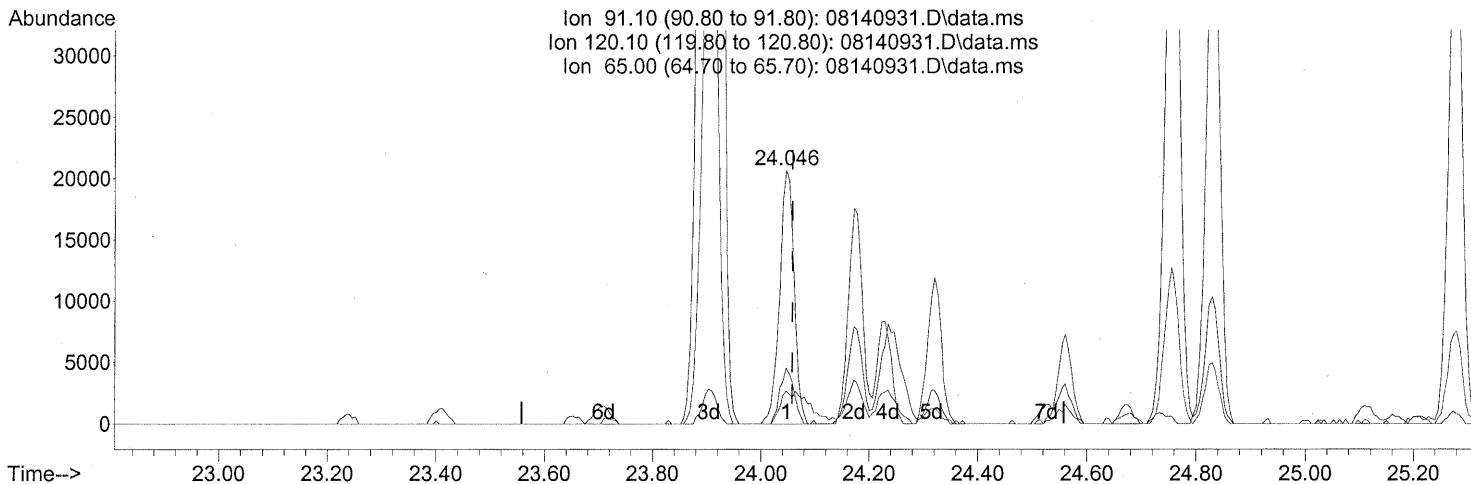
(75) alpha-Pinene (T)
 23.903min (-0.011) 65.56ng
 response 1452390

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	40.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08140931.D\data.ms

(76) n-Propylbenzene (T)

24.046min (-0.011) 0.71ng

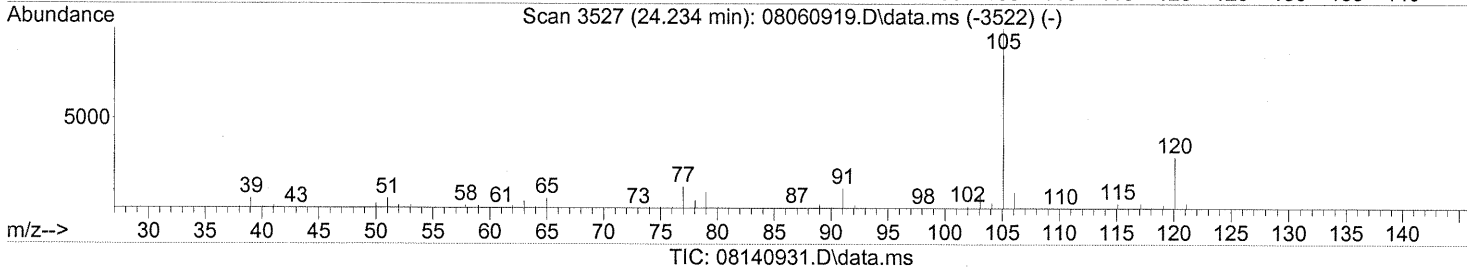
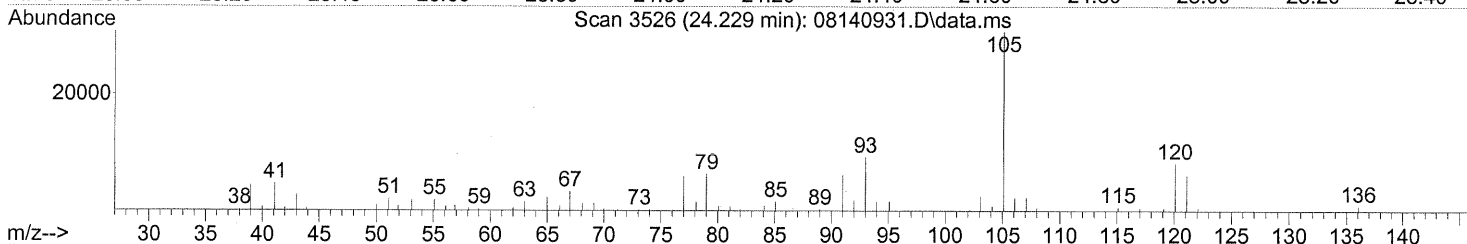
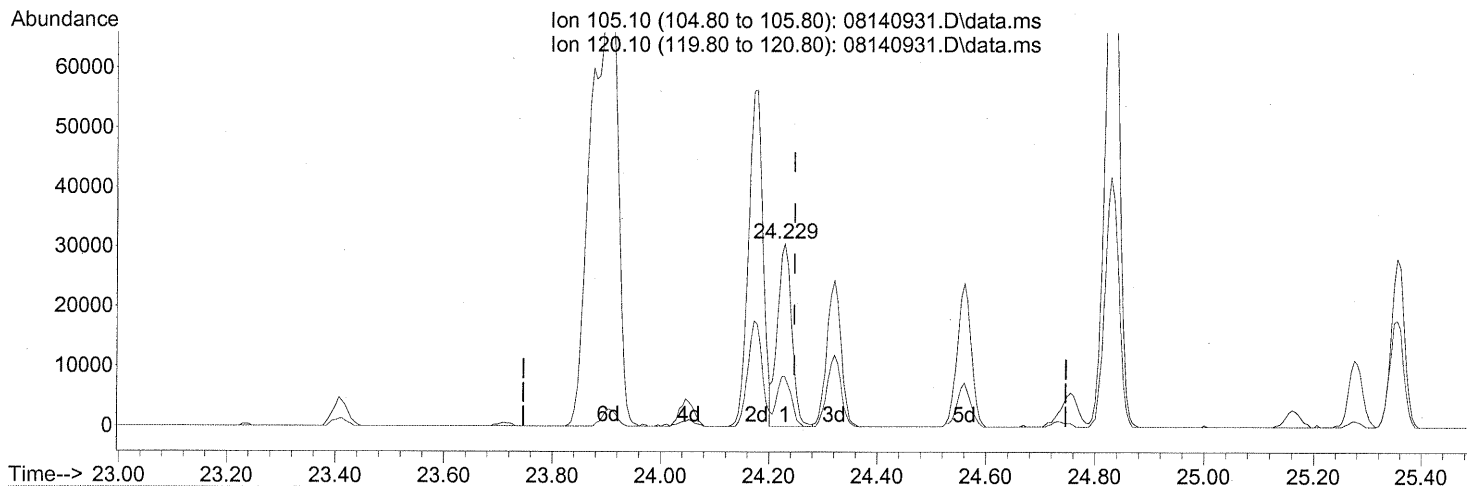
response 38454

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	21.31
65.00	12.00	25.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.229min (-0.017) 1.39ng

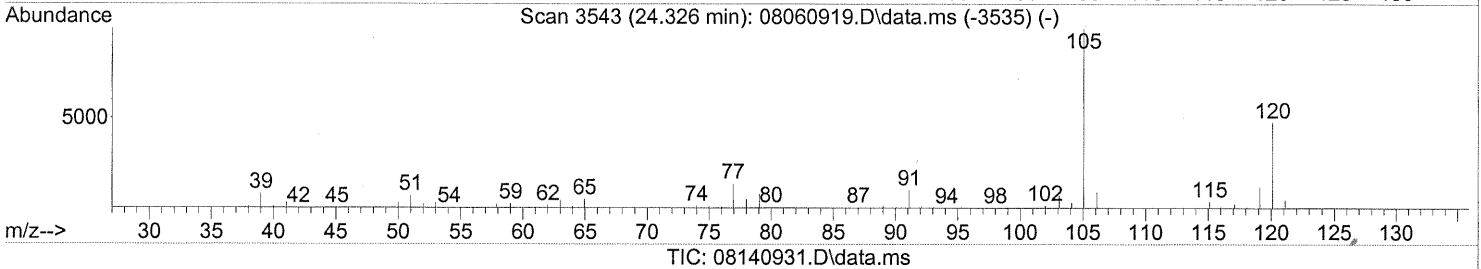
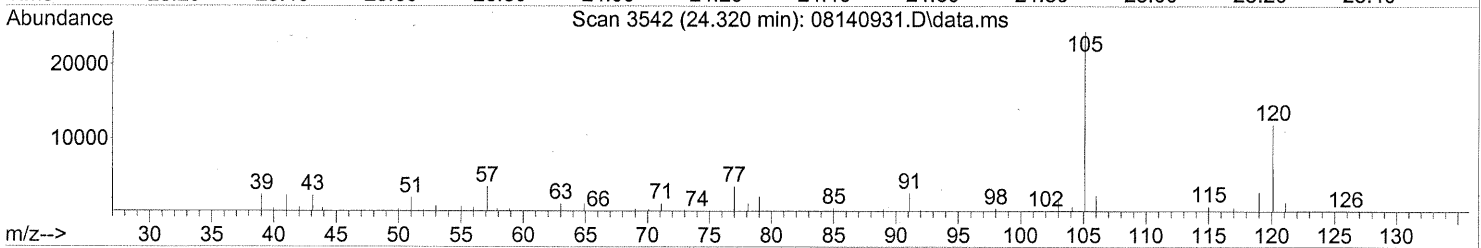
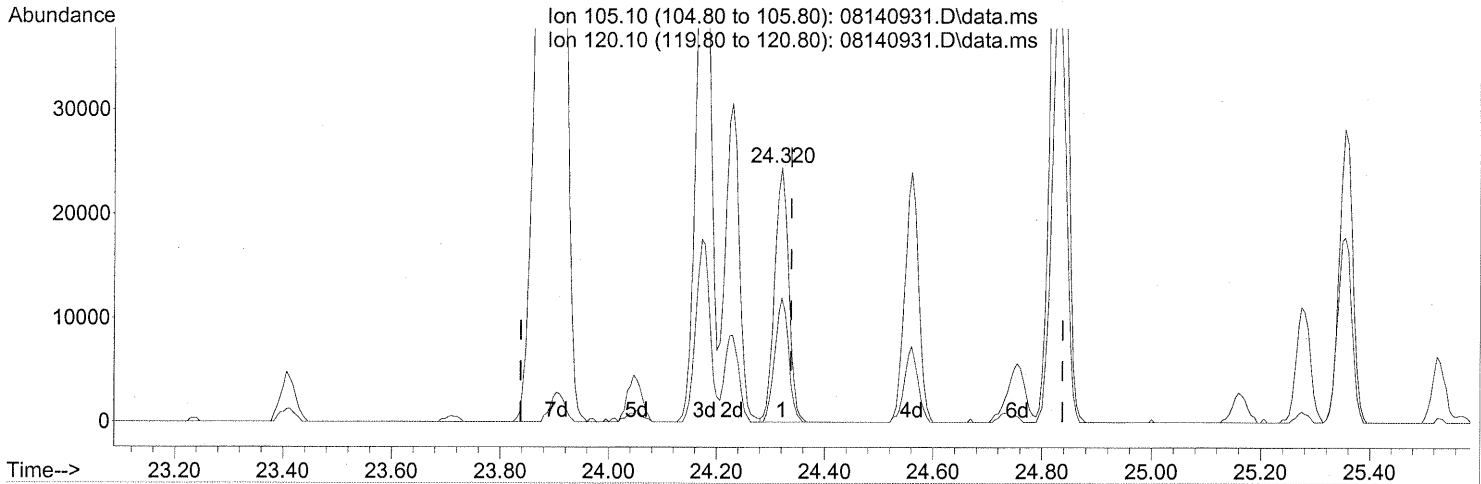
response 55815

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	26.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 1.31ng

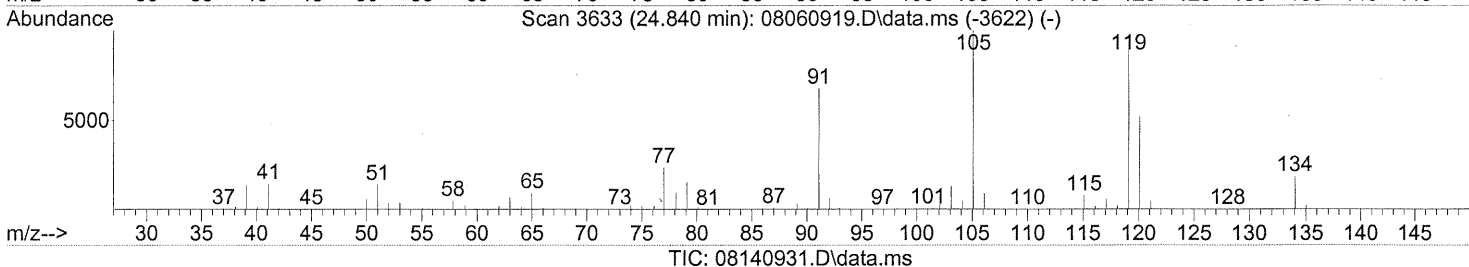
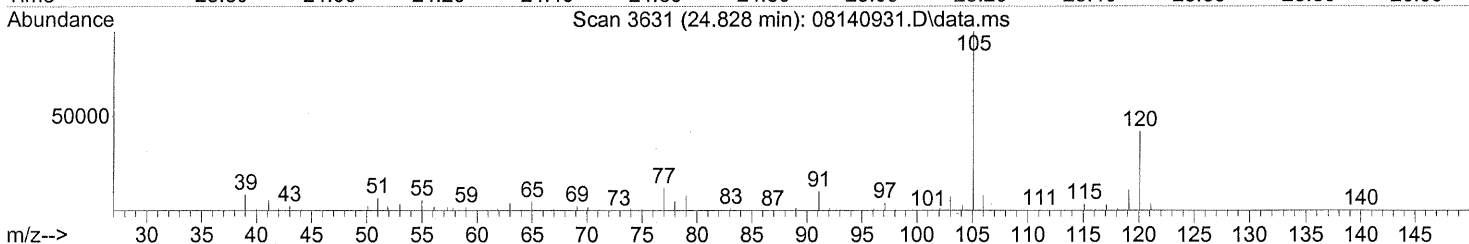
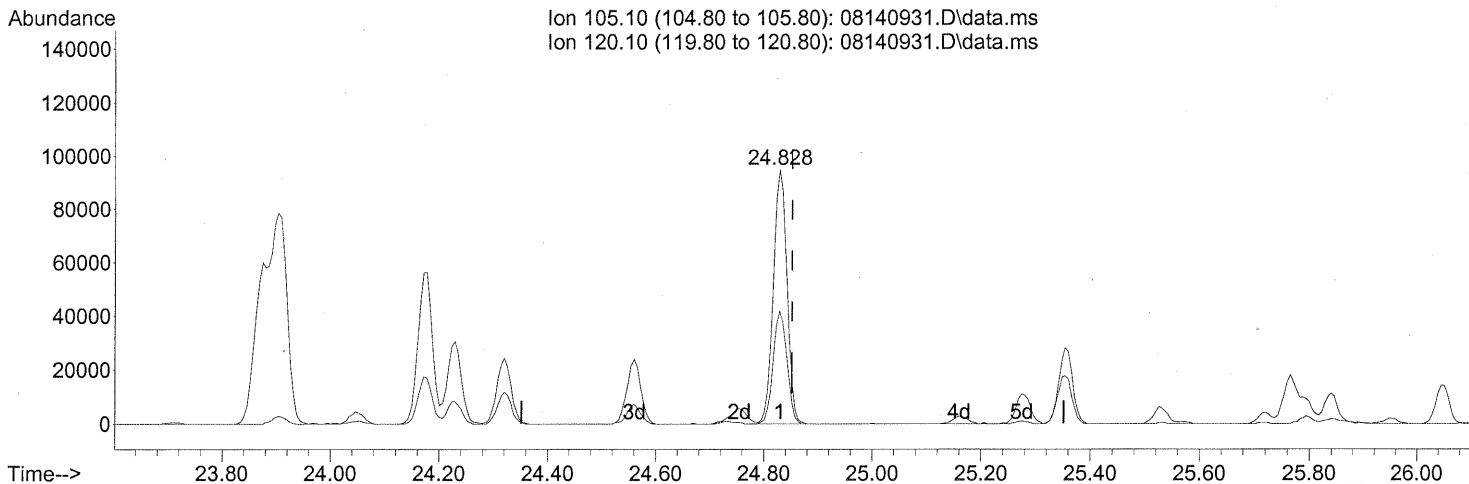
response 44381

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	47.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 4.83ng

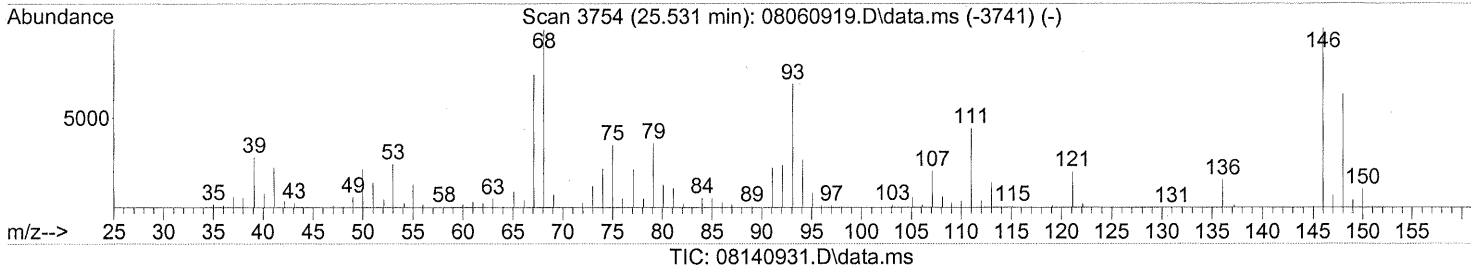
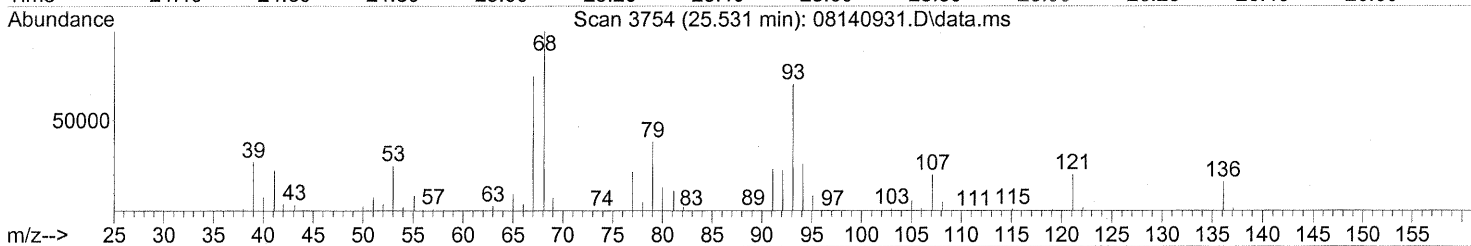
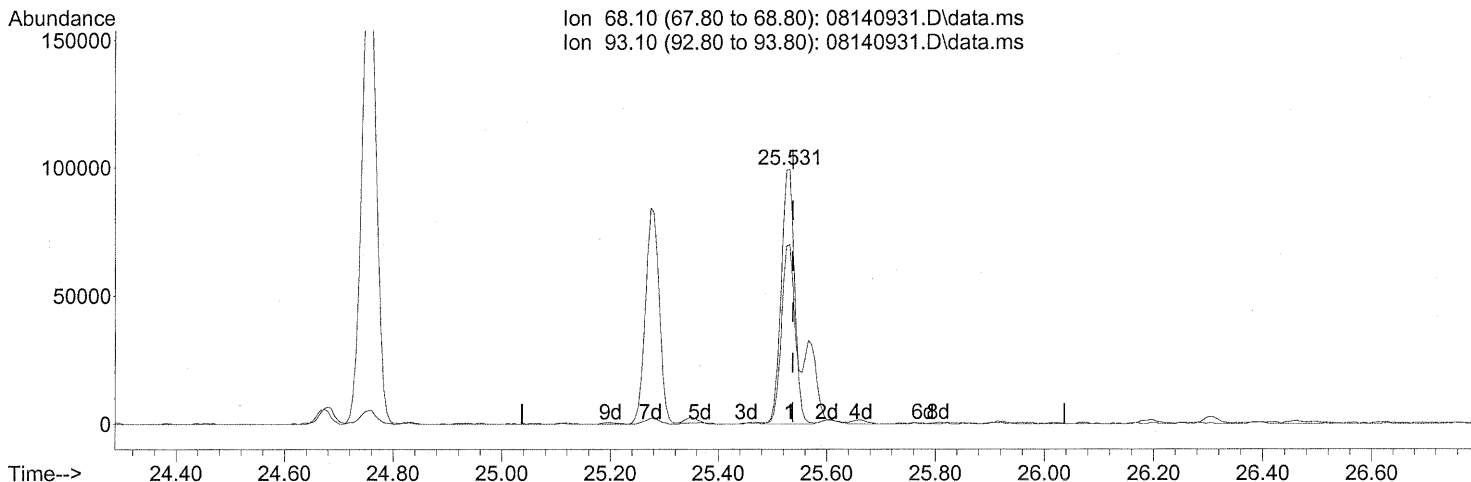
response 166105

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(91) d-Limonene (T)
 25.531min (-0.006) 11.56ng

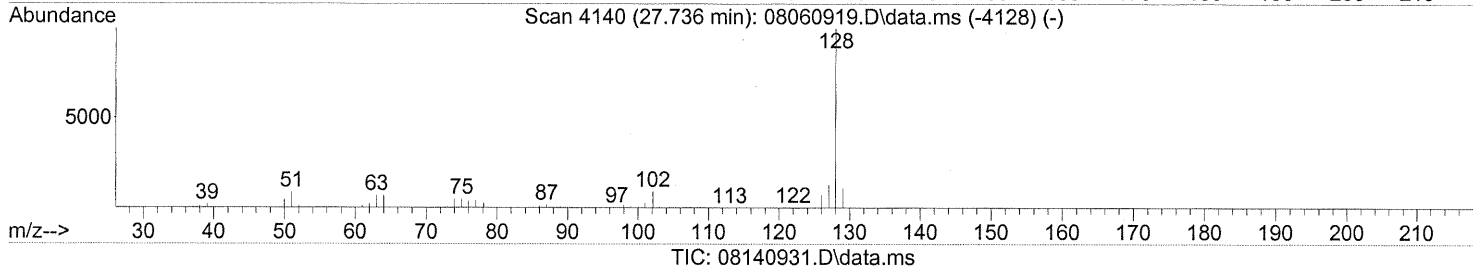
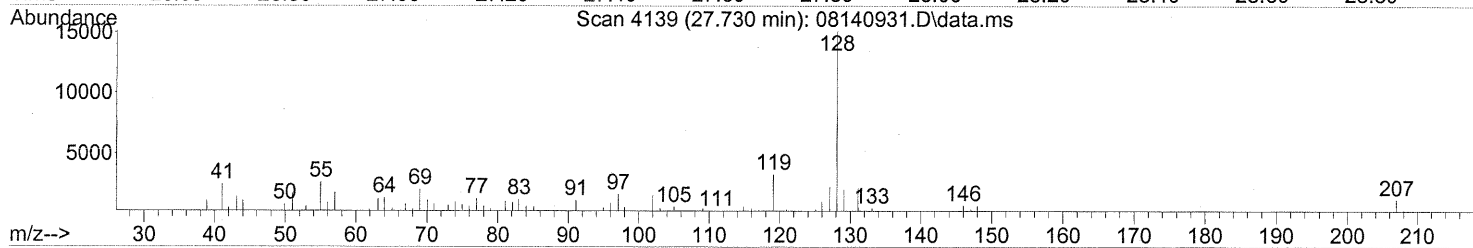
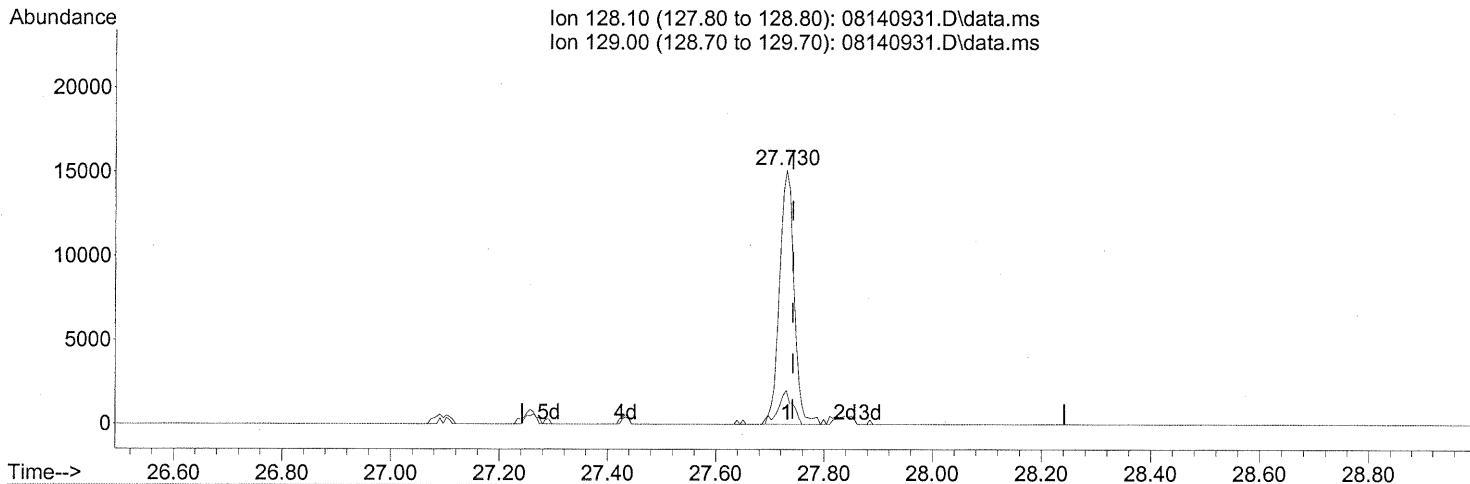
response 169258

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	74.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140931.D
 Acq On : 15 Aug 2009 3:02
 Operator : WA
 Sample : P0902721-010 (1000mL)
 Misc : Env. Health & Engineering 99955
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 15 07:18:45 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

27.730min (-0.011) 0.61ng

response 28331

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	13.08
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99956

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-011

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/7/09

Analyst: Wida Ang

Date Analyzed: 8/17/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01028

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	2.0	0.75	1.2	0.44	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.75	0.60	0.15	
74-87-3	Chloromethane	0.83	0.15	0.40	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.059	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.068	
74-83-9	Bromomethane	0.23	0.15	0.059	0.039	
75-00-3	Chloroethane	ND	0.15	ND	0.057	
64-17-5	Ethanol	370	7.5	190	4.0	
75-05-8	Acetonitrile	180	0.75	110	0.45	E
107-02-8	Acrolein	5.0	0.75	2.2	0.33	
67-64-1	Acetone	92	7.5	39	3.2	
75-69-4	Trichlorofluoromethane	1.5	0.15	0.27	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	8.4	0.75	3.4	0.31	
107-13-1	Acrylonitrile	ND	0.75	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.038	
75-09-2	Methylene Chloride	2.6	0.75	0.74	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.048	
76-13-1	Trichlorotrifluoroethane	0.78	0.15	0.10	0.020	
75-15-0	Carbon Disulfide	1.0	0.75	0.33	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.038	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.042	
108-05-4	Vinyl Acetate	7.9	7.5	2.3	2.1	
78-93-3	2-Butanone (MEK)	7.1	0.75	2.4	0.25	

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.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99956

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-011

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/7/09

Analyst: Wida Ang

Date Analyzed: 8/17/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01028

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
141-78-6	Ethyl Acetate	4.3	0.75	1.2	0.21	
110-54-3	n-Hexane	1.4	0.75	0.41	0.21	
67-66-3	Chloroform	0.93	0.15	0.19	0.031	
109-99-9	Tetrahydrofuran (THF)	ND	0.75	ND	0.25	
107-06-2	1,2-Dichloroethane	5.2	0.15	1.3	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	Benzene	1.7	0.15	0.54	0.047	
56-23-5	Carbon Tetrachloride	0.58	0.15	0.093	0.024	
110-82-7	Cyclohexane	ND	0.75	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	0.23	0.15	0.034	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.75	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.75	ND	0.18	
142-82-5	n-Heptane	0.94	0.75	0.23	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	ND	0.17	
108-10-1	4-Methyl-2-pentanone	3.0	0.75	0.74	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	19	0.75	5.0	0.20	
591-78-6	2-Hexanone	ND	0.75	ND	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	n-Butyl Acetate	4.2	0.75	0.89	0.16	

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: _____ Date: 8/24/09 **439**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99956
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-011

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: AC01028

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.0	0.75	0.22	0.16	
127-18-4	Tetrachloroethene	45	0.15	6.6	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	5.6	0.75	1.3	0.17	
179601-23-1	m,p-Xylenes	17	0.75	4.0	0.17	
75-25-2	Bromoform	ND	0.75	ND	0.073	
100-42-5	Styrene	3.9	0.75	0.92	0.18	
95-47-6	o-Xylene	4.5	0.75	1.0	0.17	
111-84-2	n-Nonane	1.1	0.75	0.21	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.75	ND	0.15	
80-56-8	alpha-Pinene	83	0.75	15	0.13	
103-65-1	n-Propylbenzene	0.85	0.75	0.17	0.15	
622-96-8	4-Ethyltoluene	1.6	0.75	0.32	0.15	
108-67-8	1,3,5-Trimethylbenzene	1.6	0.75	0.33	0.15	
95-63-6	1,2,4-Trimethylbenzene	5.7	0.75	1.2	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.029	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	18	0.75	3.3	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	ND	0.078	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	ND	0.10	
91-20-3	Naphthalene	0.94	0.75	0.18	0.14	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

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: _____

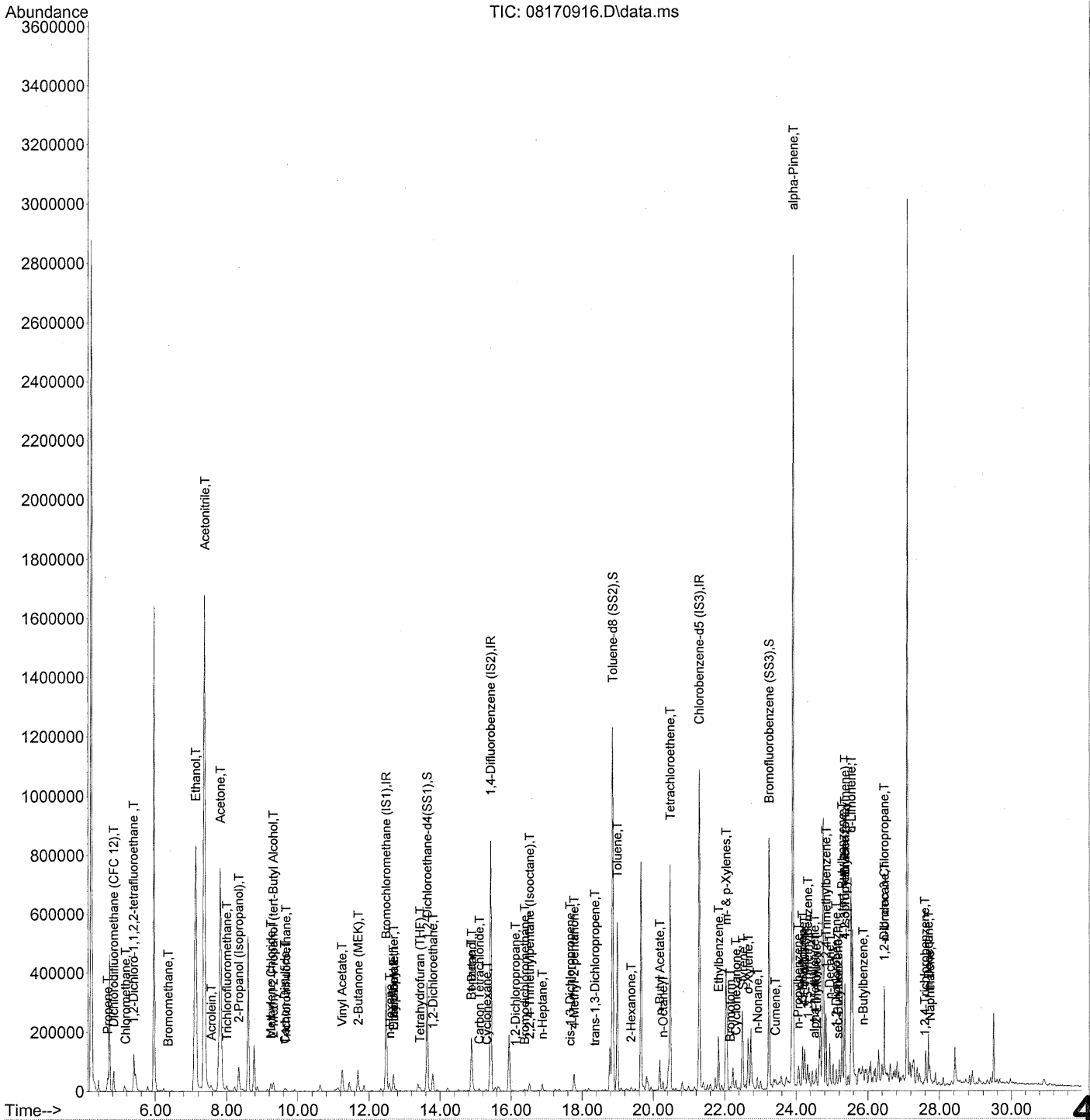
Date: _____

8/24/09

440

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 20 10:08:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956 ✓
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 20 10:08:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	184561	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	955896	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	457293	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	376710	23.484	ng	-0.03
Spiked Amount	25.000			Recovery =	93.92%	✓
57) Toluene-d8 (SS2)	18.85	98	1052135	26.332	ng	-0.01
Spiked Amount	25.000			Recovery =	105.32%	✓
73) Bromofluorobenzene (SS3)	23.24	174	272765	25.886	ng	0.00
Spiked Amount	25.000			Recovery =	103.56%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.65	42	17245	1.362	ng	94
3) Dichlorodifluoromethan...	4.83	85	40776	1.970	ng	99
4) Chloromethane	5.16	50	7728	0.556	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.38	135	662	0.079	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.	d	
8) Bromomethane	6.35	94	1239	0.152	ng	86
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	1954548	243.468	ng	100
11) Acetonitrile	7.38	41	2822192	120.039	ng	E 100
12) Acrolein	7.57	56	20432	3.344	ng	97
13) Acetone	7.82	58	464068	61.266	ng	97
14) Trichlorofluoromethane	8.01	101	18892	1.009	ng	97
15) 2-Propanol (Isopropanol)	8.34	45	167526	5.628	ng	98
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.31	59	5082	0.192	ng	# 1
19) Methylene Chloride	9.25	84	17466	1.717	ng	92
20) 3-Chloro-1-propene (Al...	9.42	41	88	N.D.		
21) Trichlorotrifluoroethane	9.67	151	3538	0.520	ng	92
22) Carbon Disulfide	9.63	76	24216	0.675	ng	93
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	11.24	86	8164	5.296	ng	97
27) 2-Butanone (MEK)	11.69	72	32413	4.739	ng	# 92
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	898	0.098	ng	# 1
30) Ethyl Acetate	12.69	61	10268	2.882	ng	94
31) n-Hexane	12.58	57	17516	0.961	ng	100

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 20 10:08:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	10002	0.623 ng		98
34) Tetrahydrofuran (THF)	13.43	72	2603	0.357 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	50742	3.460 ng		97
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	132816	10.706 ng		81
41) Benzene	14.87	78	48249	1.148 ng		99
42) Carbon Tetrachloride	15.10	117	5199	0.388 ng		94
43) Cyclohexane	15.31	84	3224	0.209 ng		89
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.12	63	637	0.060 ng	#	14
46) Bromodichloromethane	16.38	83	2122	0.153 ng	#	63
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.55	88	196	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	26034	0.526 ng		88
50) Methyl Methacrylate	16.77	100	94	N.D.		
51) n-Heptane	16.88	71	7046	0.625 ng		99
52) cis-1,3-Dichloropropene	17.66	75	1697	0.097 ng		83
53) 4-Methyl-2-pentanone	17.77	58	20380	2.018 ng		96
54) trans-1,3-Dichloropropene	18.36	75	1483	0.089 ng		94
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	492979	12.554 ng		99
59) 2-Hexanone	19.37	43	12922	0.495 ng		94
60) Dibromochloromethane	19.54	129	86	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	87150	2.831 ng		95
63) n-Octane	20.27	57	6591	0.694 ng		92
64) Tetrachloroethene	20.47	166	272067	29.940 ng		100
65) Chlorobenzene	21.36	112	741	N.D.		
66) Ethylbenzene	21.82	91	167920	3.741 ng		100
67) m- & p-Xylenes	22.04	91	416243	11.463 ng		99
68) Bromoform	22.16	173	550	0.071 ng	#	29
69) Styrene	22.51	104	68655	2.616 ng		98
70) o-Xylene	22.65	91	108114	2.969 ng		99
71) n-Nonane	22.91	43	17549	0.725 ng		96
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. d		
74) Cumene	23.41	105	7833	0.170 ng		98
75) alpha-Pinene	23.90	93	1310803	55.602 ng		84
76) n-Propylbenzene	24.05	91	32592	0.564 ng		86
77) 3-Ethyltoluene	24.17	105	87406	1.989 ng		99
78) 4-Ethyltoluene	24.23	105	44478	1.044 ng		99
79) 1,3,5-Trimethylbenzene	24.32	105	38690	1.077 ng		99

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 20 10:08:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

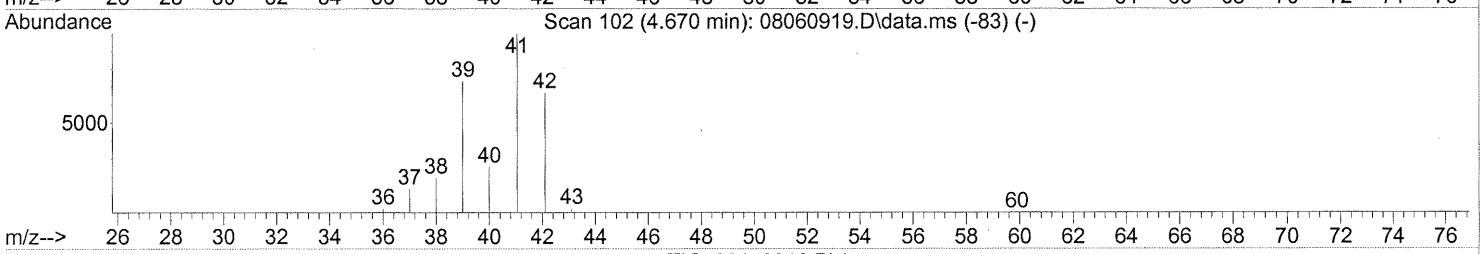
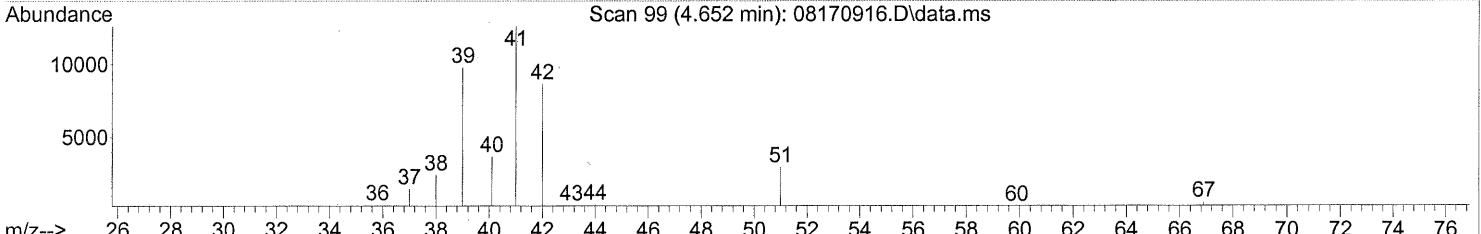
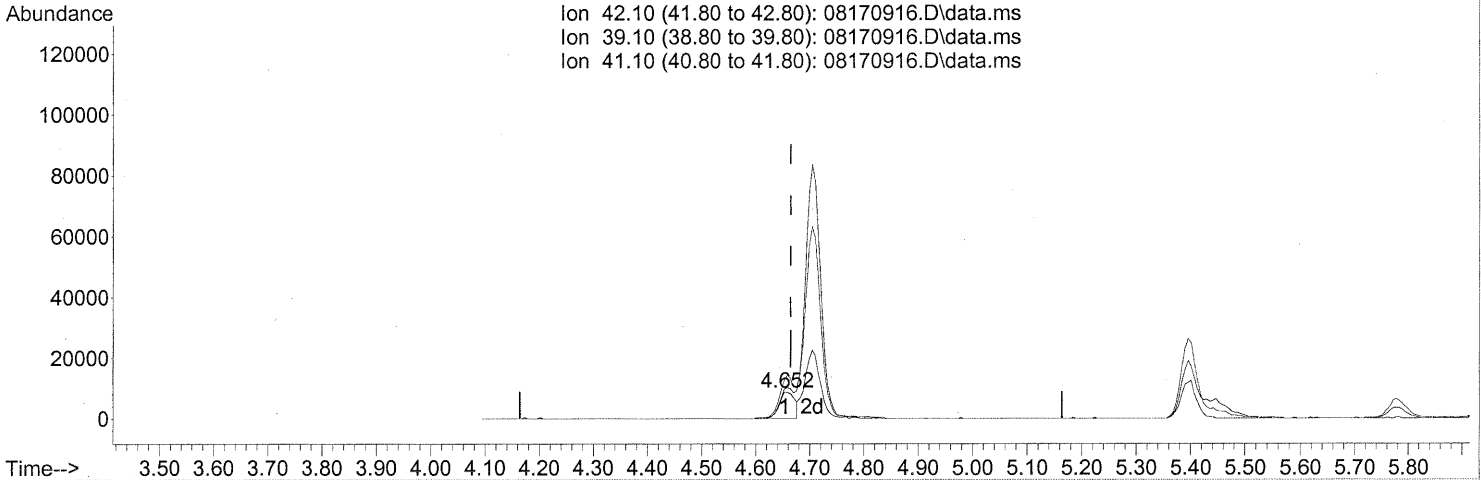
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1288	0.067	ng	# 46
81) 2-Ethyltoluene	24.56	105	37344	0.843	ng	100
82) 1,2,4-Trimethylbenzene	24.83	105	138696	3.786	ng	89
83) n-Decane	24.93	57	53135	2.231	ng	91
84) Benzyl Chloride	25.00	91	772	N.D.		
85) 1,3-Dichlorobenzene	25.03	146	116	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	985	N.D.		
87) sec-Butylbenzene	25.16	105	5133	0.104	ng	# 78
88) 4-Isopropyltoluene (p-...	25.35	119	145447	3.296	ng	96
89) 1,2,3-Trimethylbenzene	25.35	105	42484	1.138	ng	72
90) 1,2-Dichlorobenzene	25.11	146	985	0.056	ng	77
91) d-Limonene	25.53	68	188998	12.133	ng	92
92) 1,2-Dibromo-3-Chloropr...	26.45	157	497	0.082	ng	# 1
93) n-Undecane	26.46	57	107365	4.237	ng	89
94) 1,2,4-Trichlorobenzene	27.58	180	717	0.059	ng	# 84
95) Naphthalene	27.73	128	31235	0.628	ng	91
96) n-Dodecane	27.69	57	55539	1.887	ng	100
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	16189	0.995	ng	92
99) tert-Butylbenzene	25.27	119	12806	0.361	ng	97
100) n-Butylbenzene	25.86	91	18495	0.453	ng	# 59

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.652min (-0.011) 1.36ng

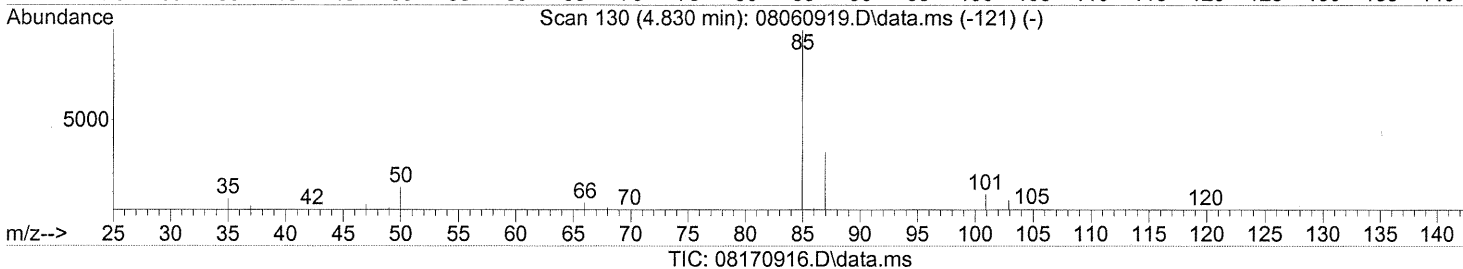
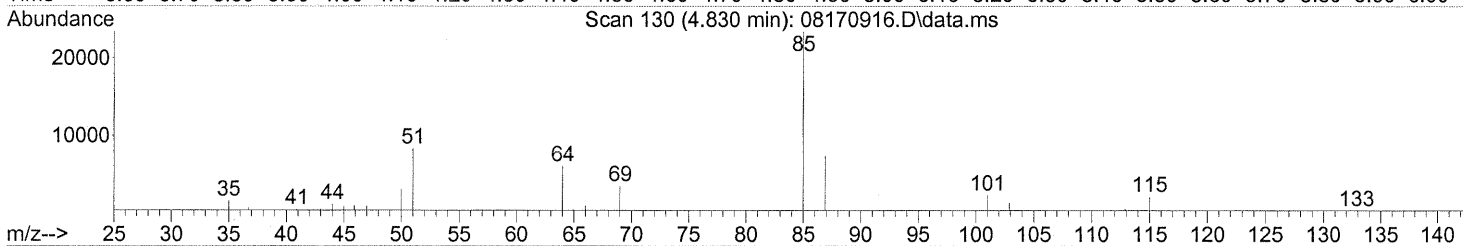
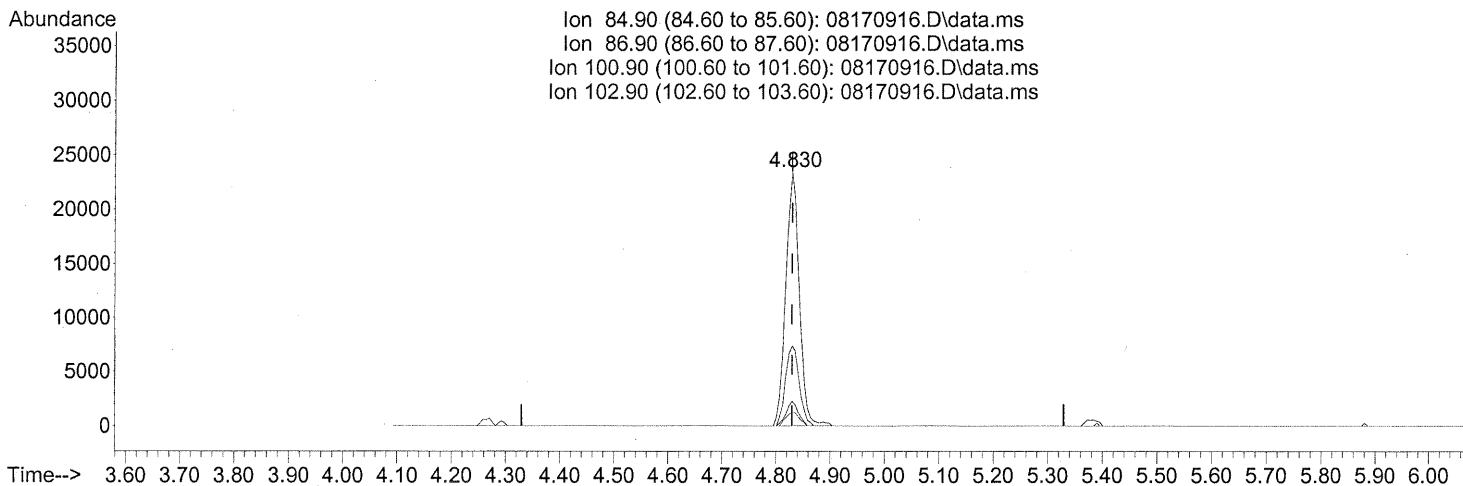
response 17245

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	104.99
41.10	150.20	142.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
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(3) Dichlorodifluoromethane (CFC 12) (T)

4.830min (+0.000) 1.97ng

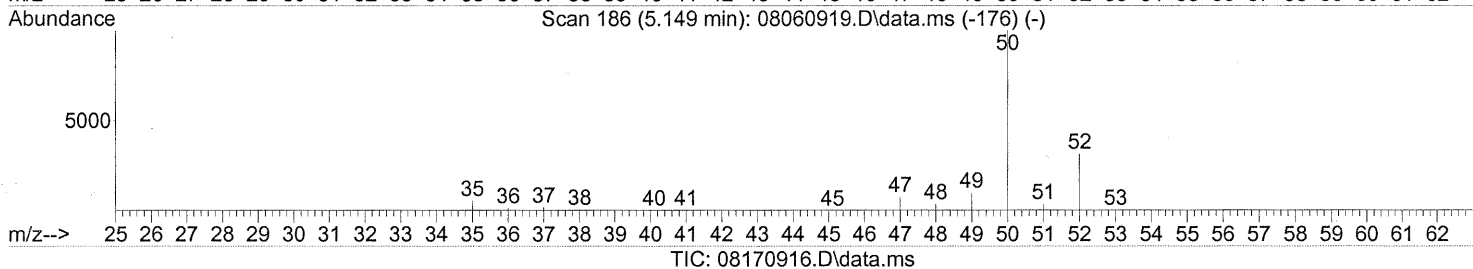
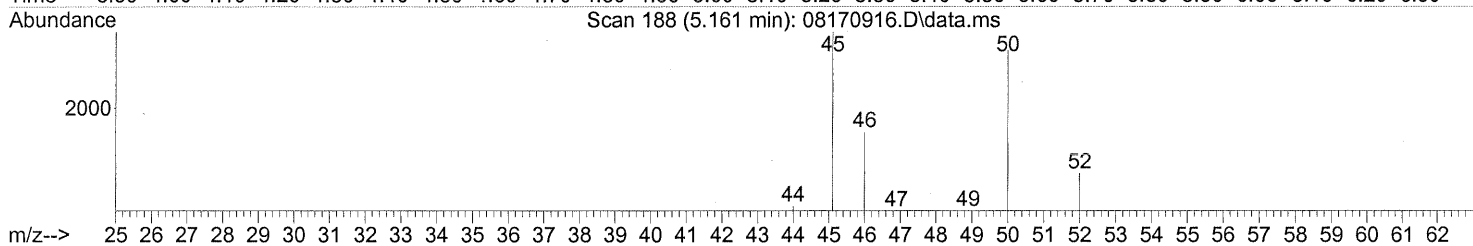
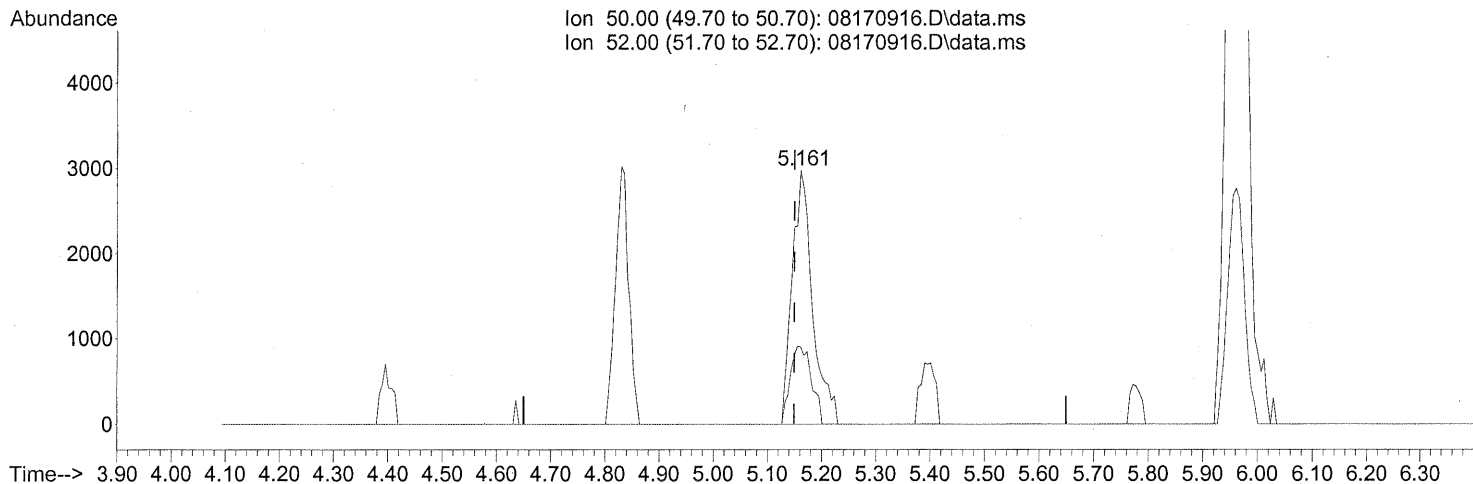
response 40776

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.97
100.90	8.80	8.65
102.90	5.20	5.33

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

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 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.161min (+0.012) 0.56ng

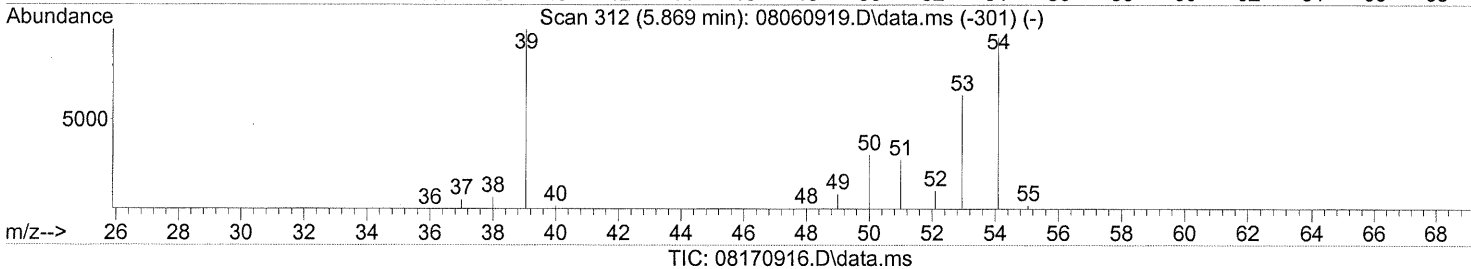
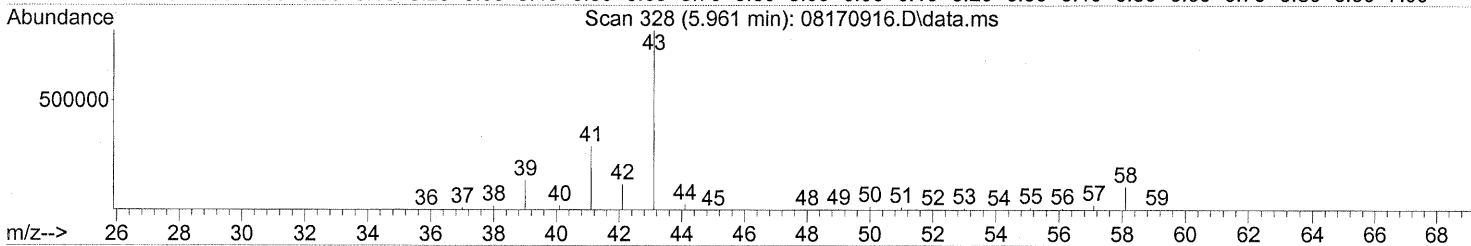
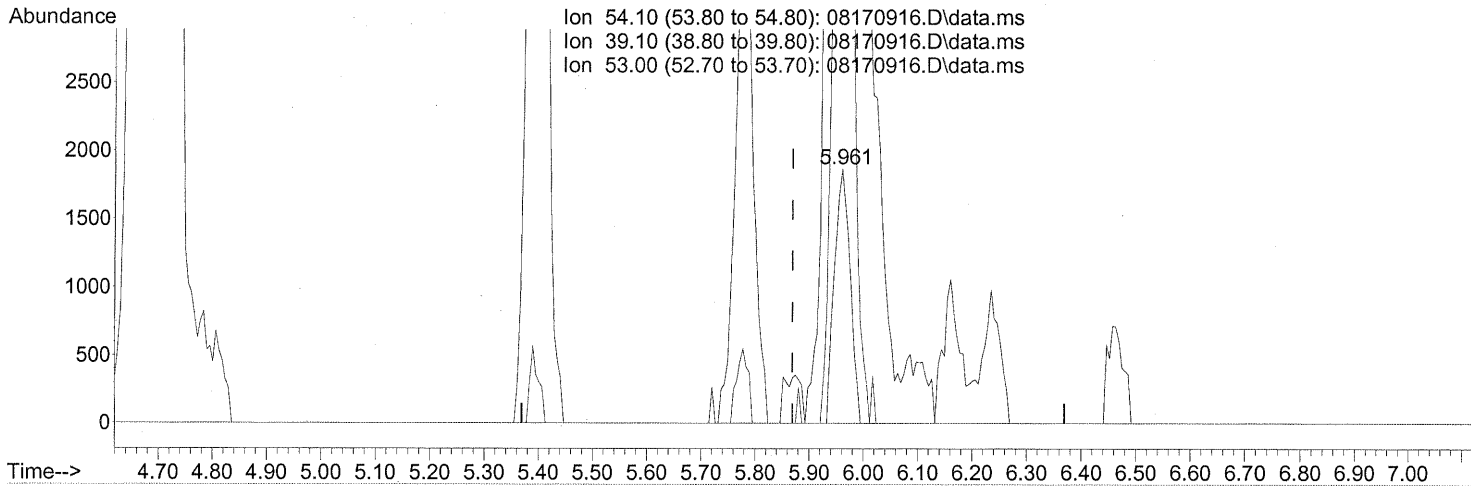
response 7728

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	31.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(7) 1,3-Butadiene (T)
5.961min (+0.091) 0.39ng
response 3768

FP UH 8/20/09

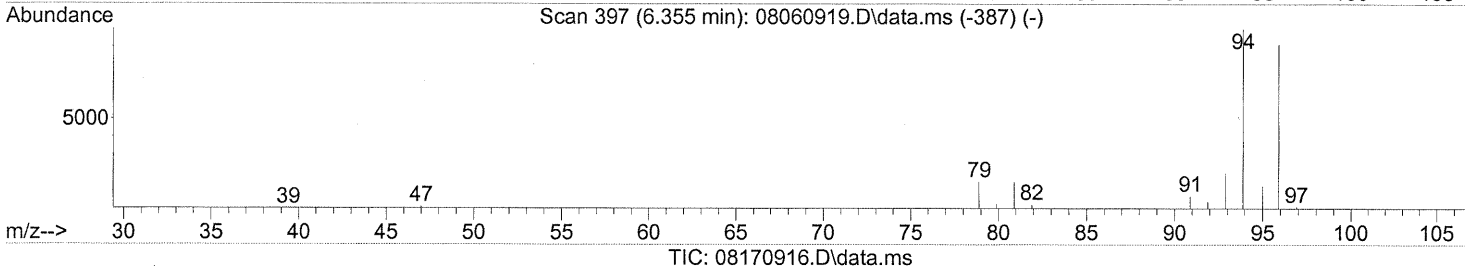
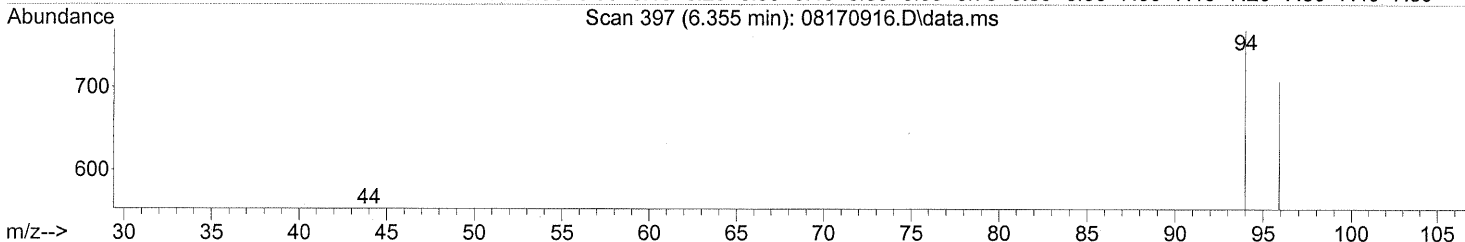
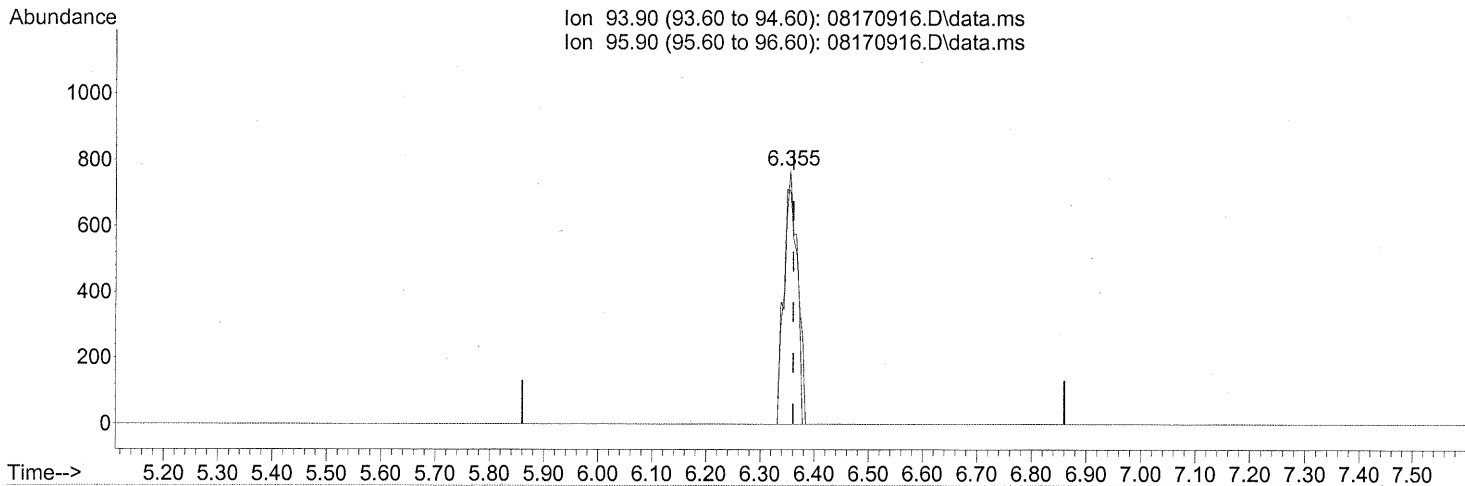
Ion	Exp%	Act%
54.10	100	100
39.10	106.70	7699.68#
53.00	69.50	487.71#
0.00	0.00	0.00

R 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
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 Misc : Env. Health & Engineering 99956
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 Response via : Initial Calibration



(8) Bromomethane (T)

6.355min (-0.006) 0.15ng

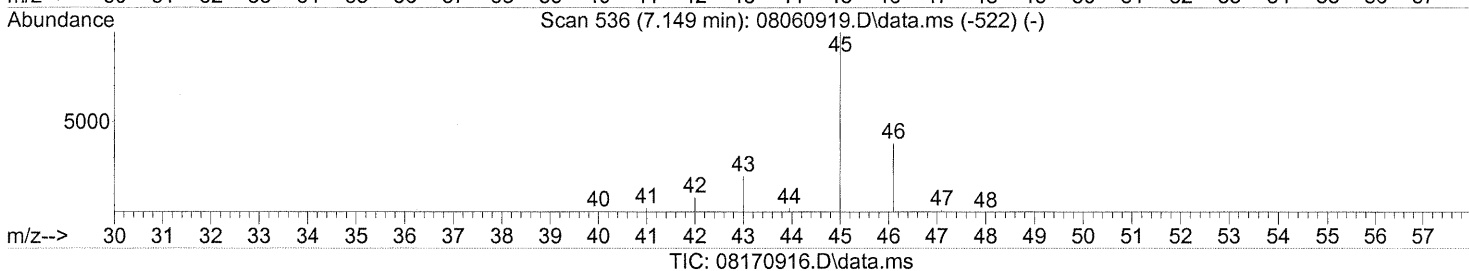
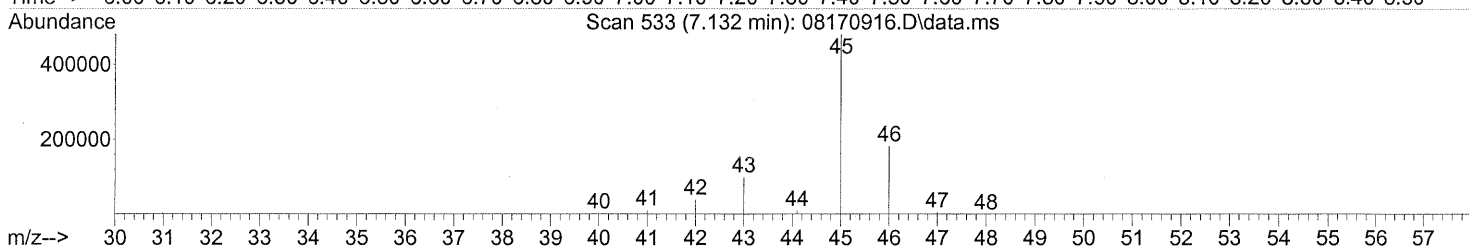
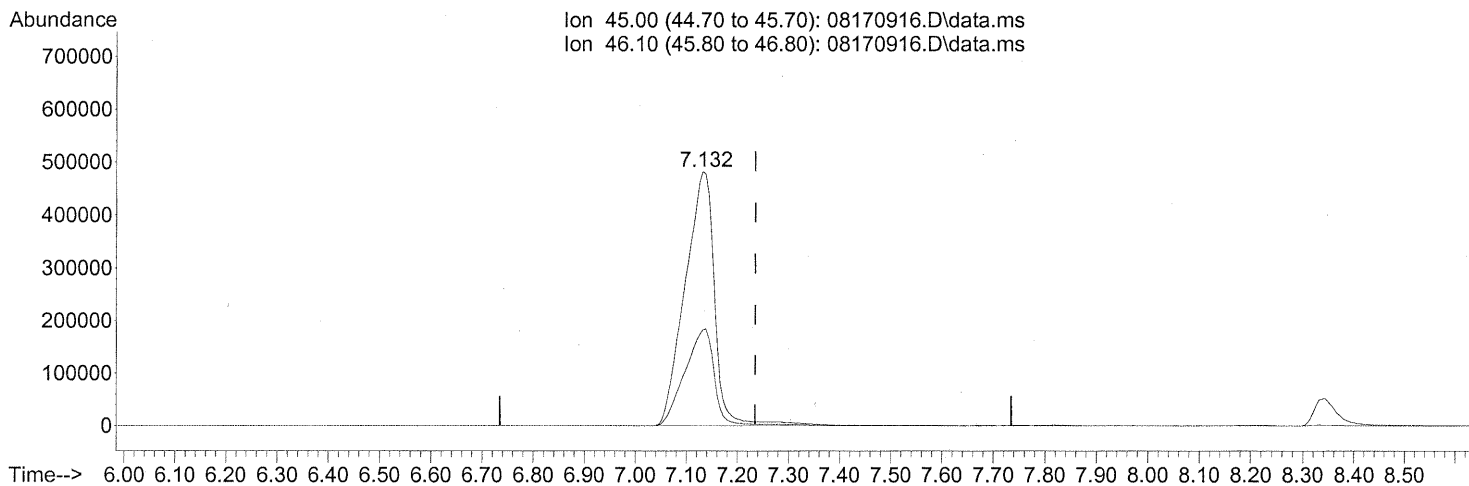
response 1239

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	105.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.132min (-0.103) 243.47ng

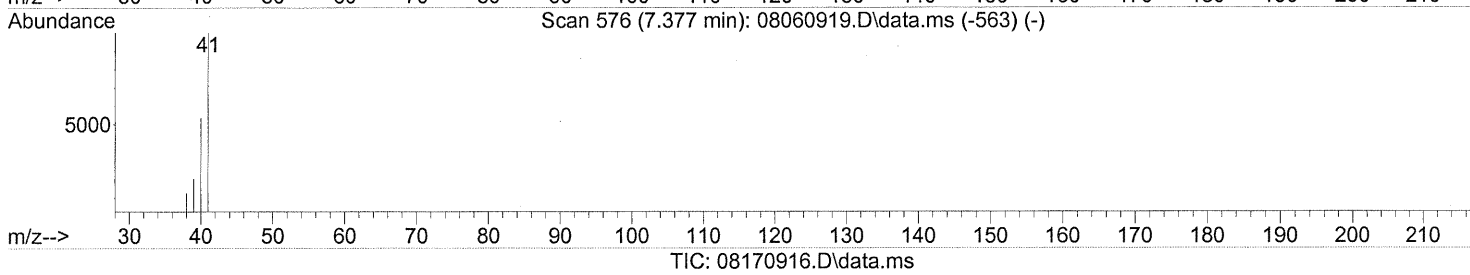
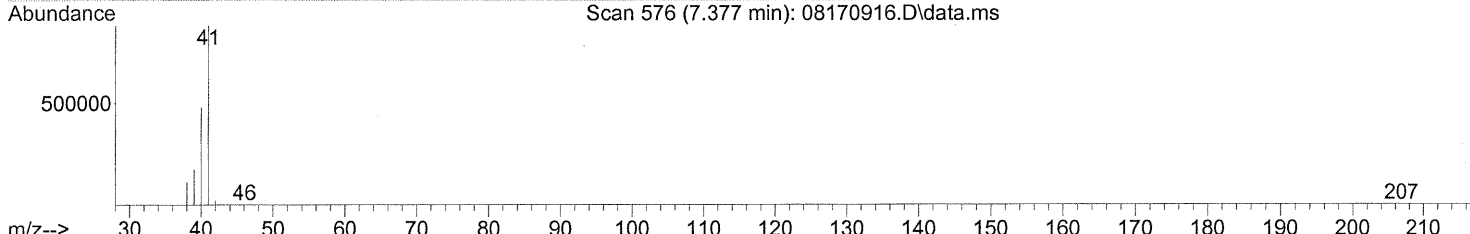
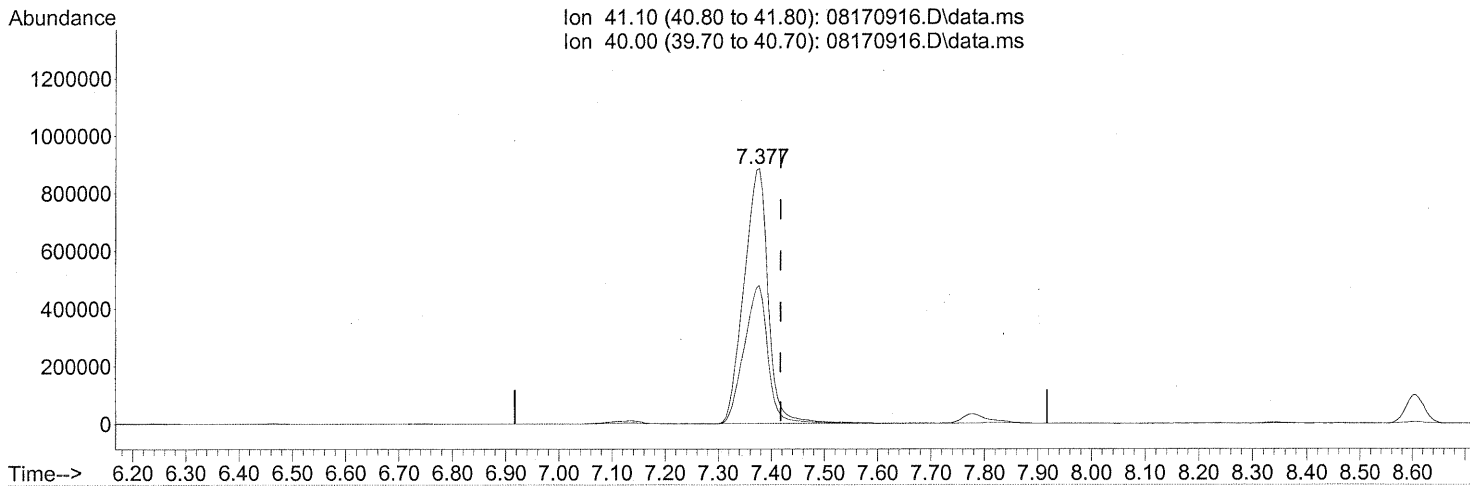
response 1954548

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 20 10:08:08 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(11) Acetonitrile (T)

7.377min (-0.040) 120.04ng

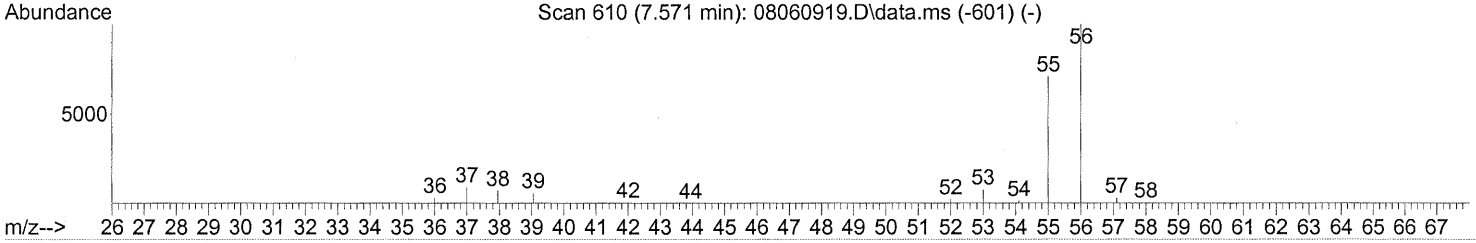
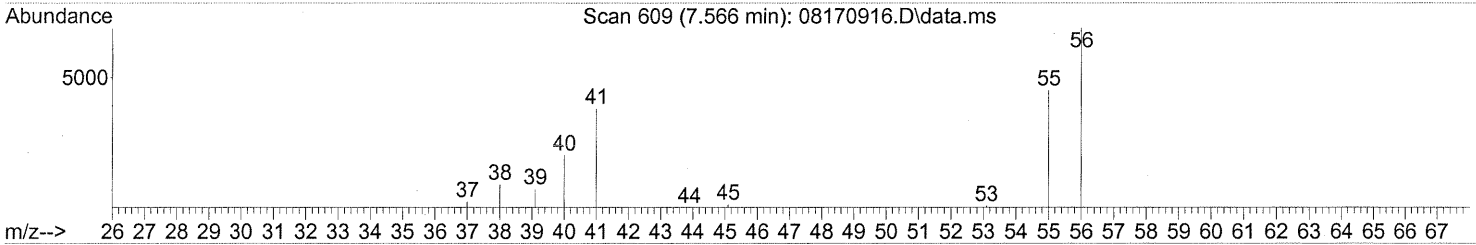
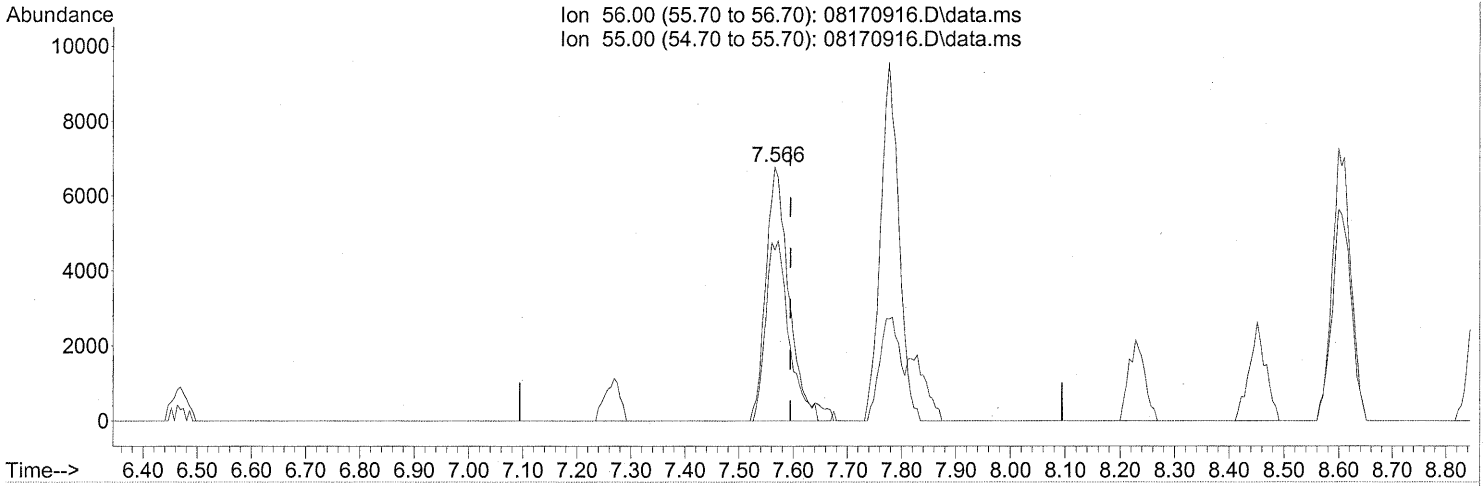
response 2822192

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170916.D\data.ms

(12) Acrolein (T)

7.566min (-0.028) 3.34ng

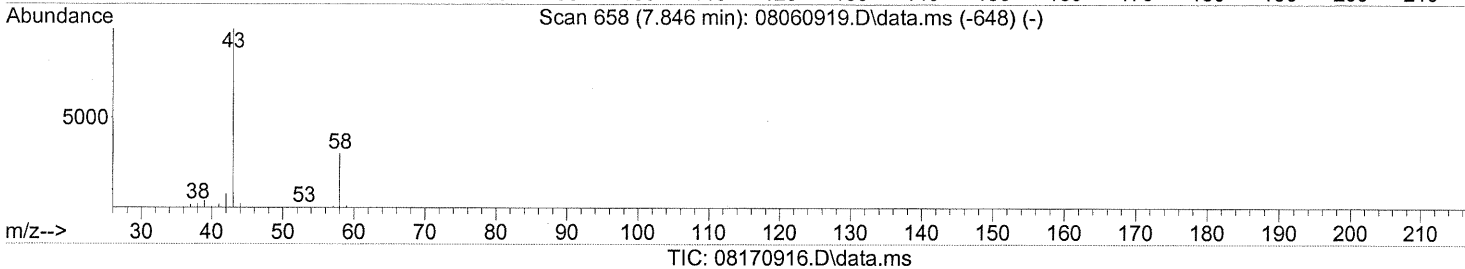
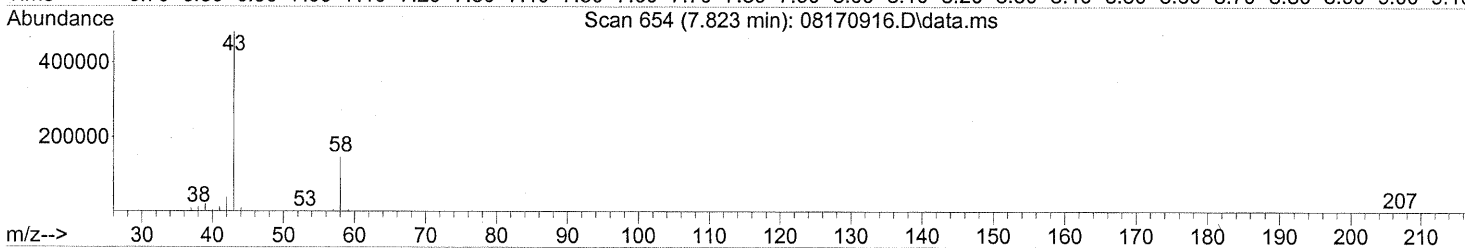
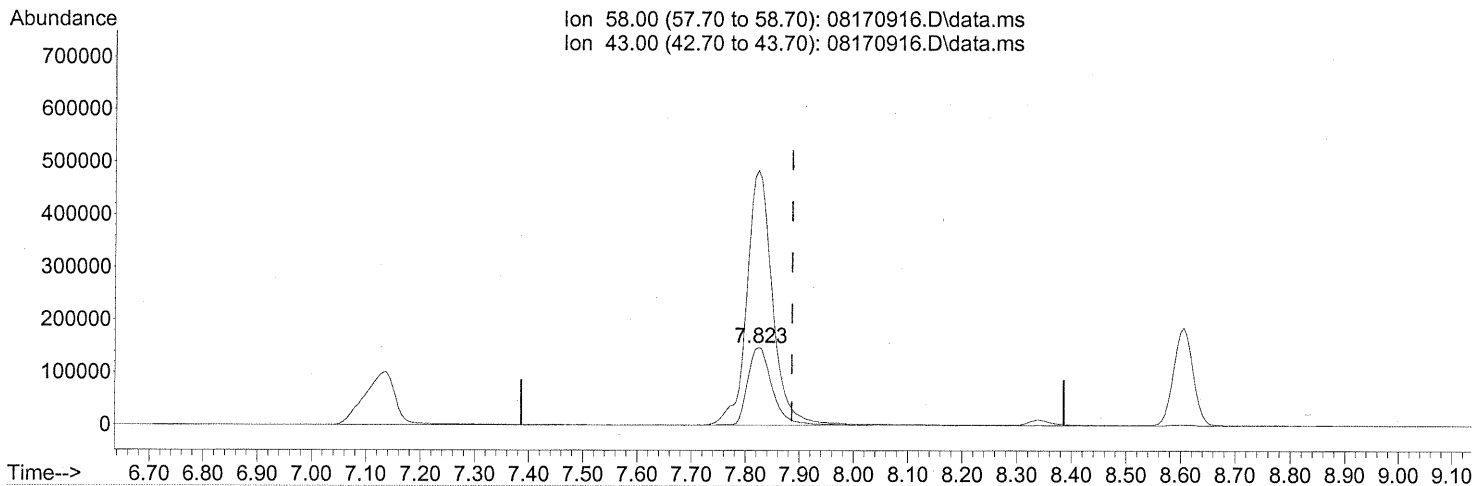
response 20432

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	70.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

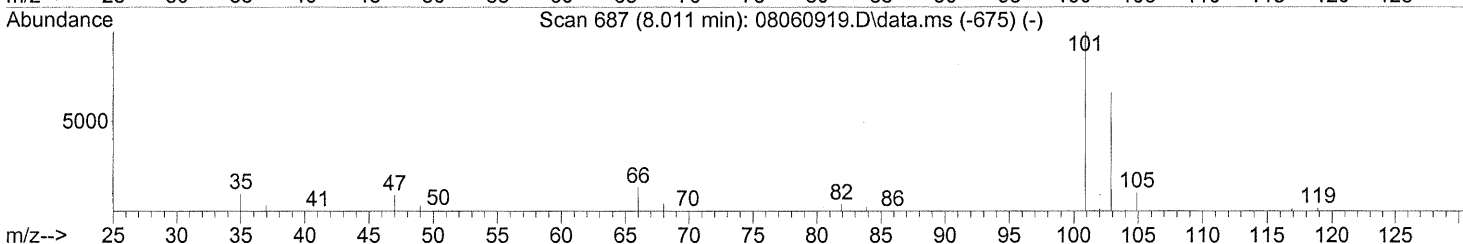
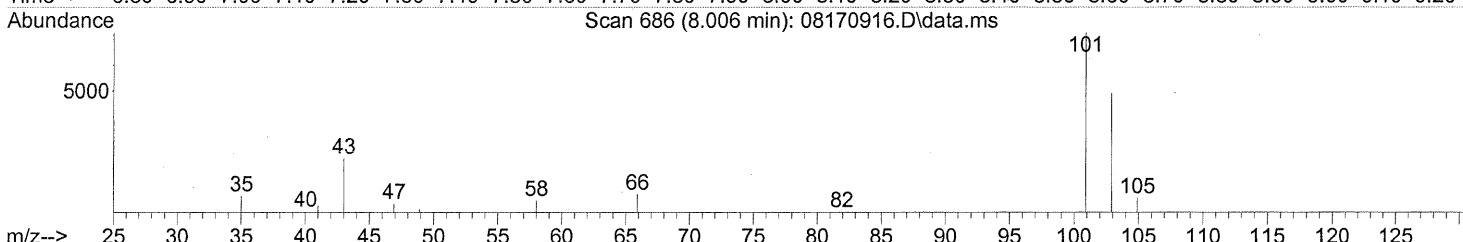
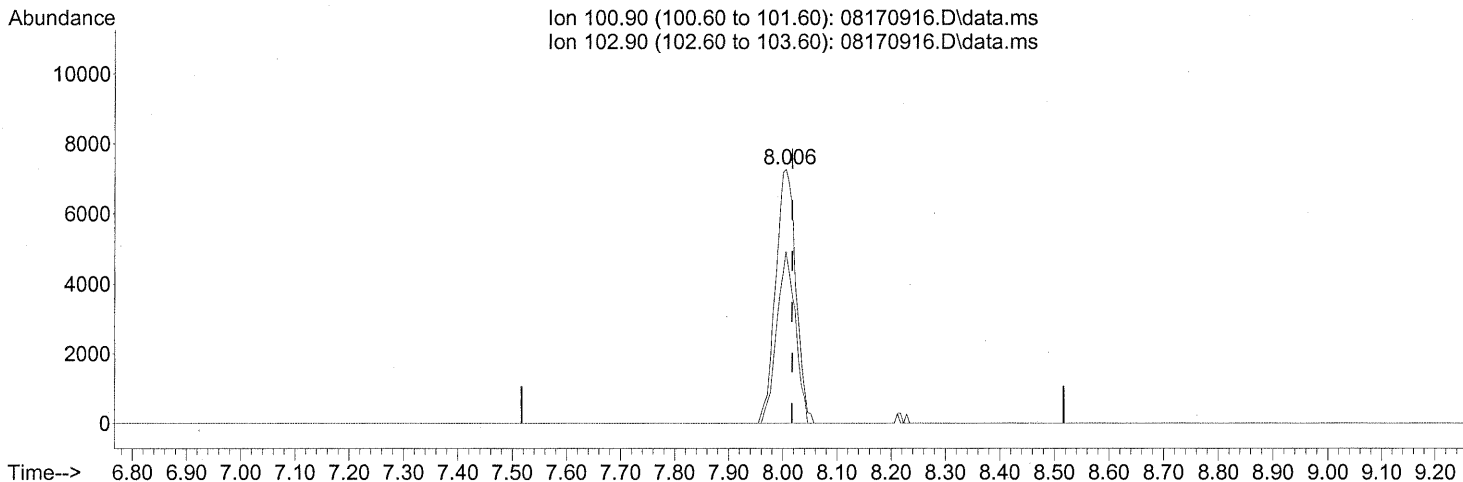
7.823min (-0.063) 61.27ng
 response 464068

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	347.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08170916.D\data.ms

(14) Trichlorofluoromethane (T)

8.006min (-0.011) 1.01ng

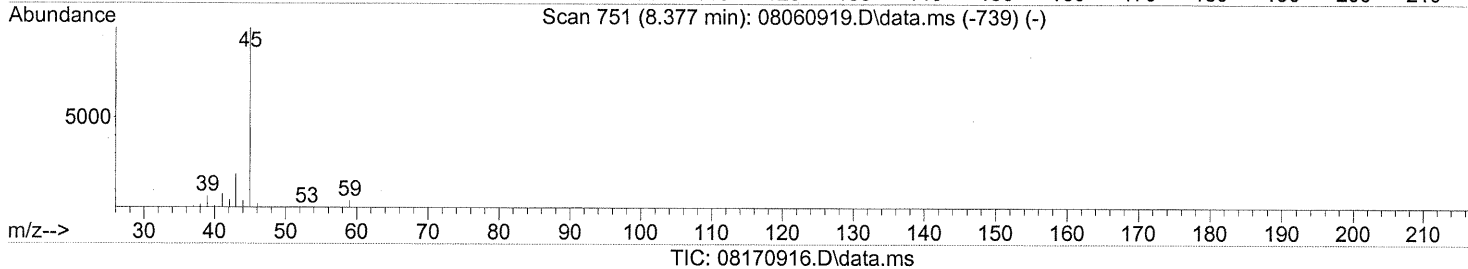
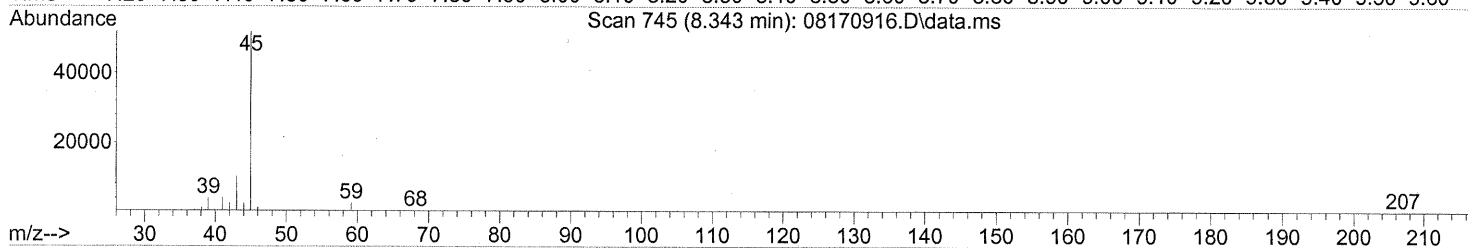
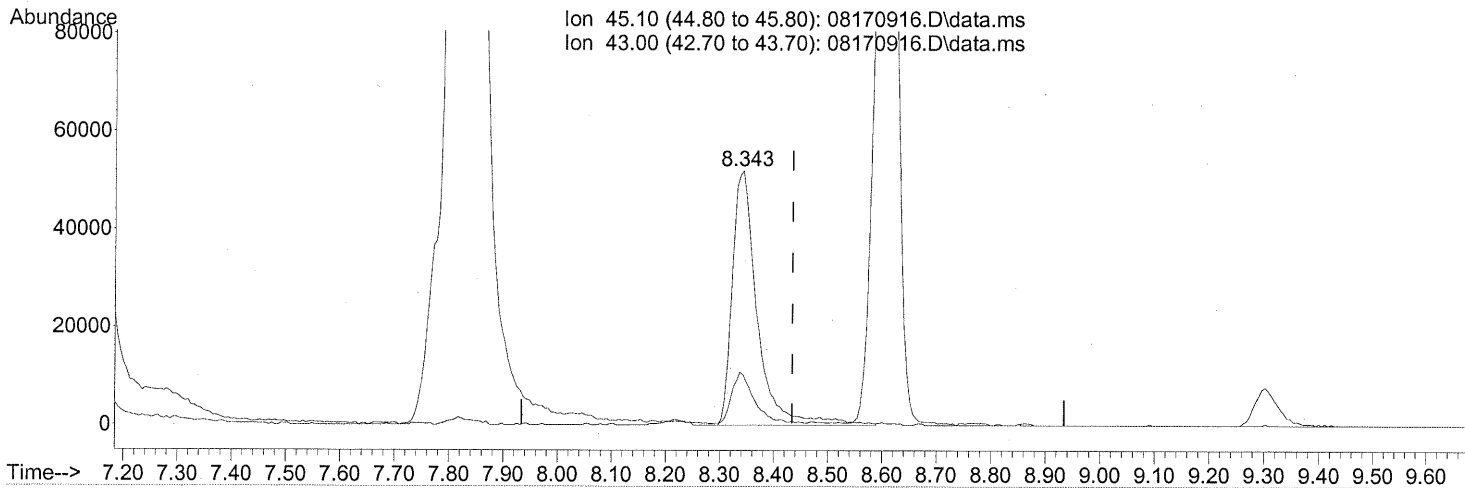
response 18892

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	62.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.343min (-0.091) 5.63ng

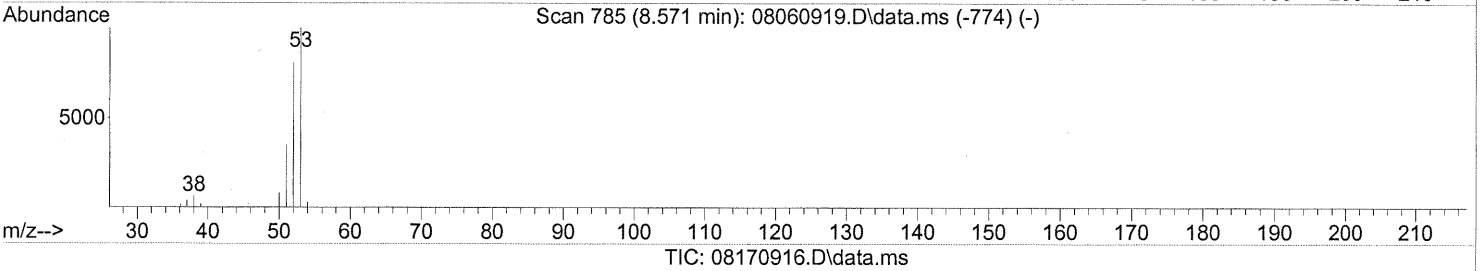
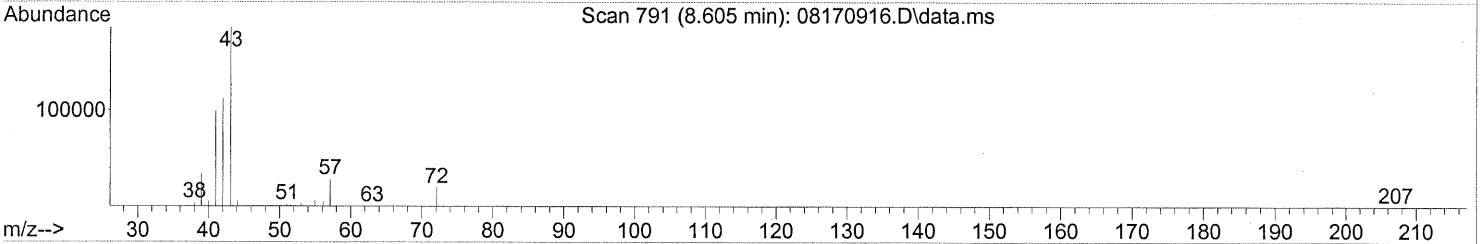
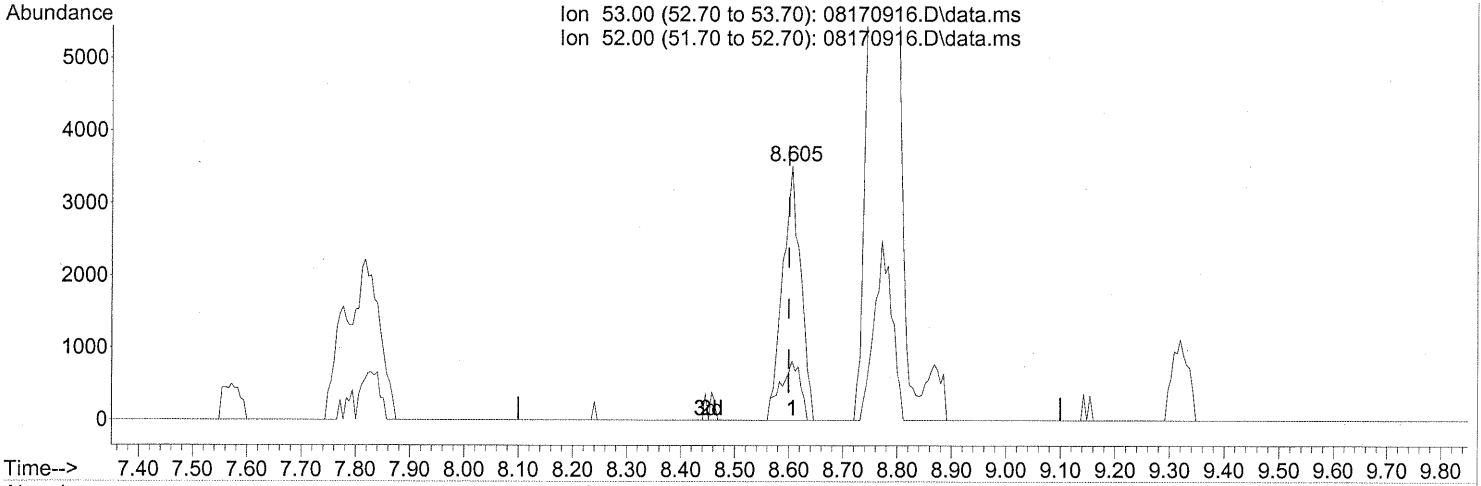
response 167526

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	17.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)
8.605min (+0.006) 0.60ng
response 8196
Ion Exp% Act%
53.00 100 100
52.00 81.20 25.84#
0.00 0.00 0.00
0.00 0.00 0.00

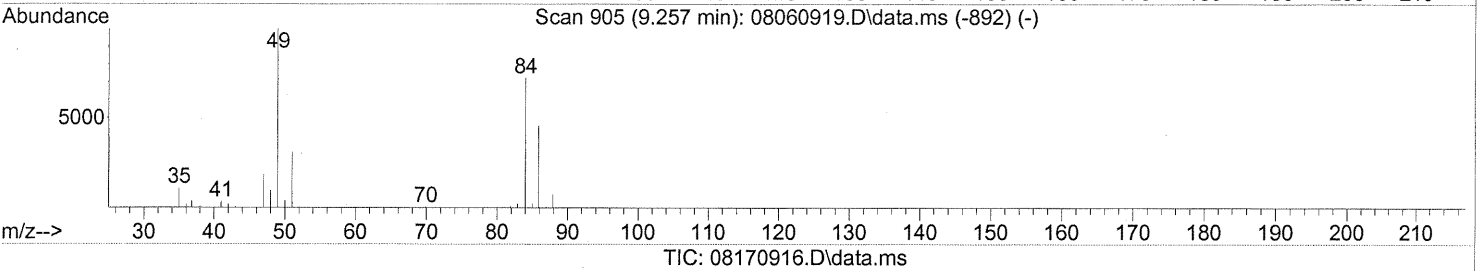
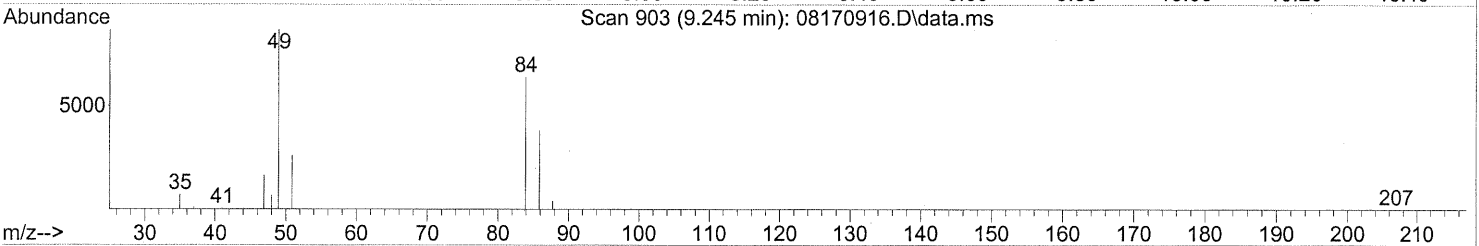
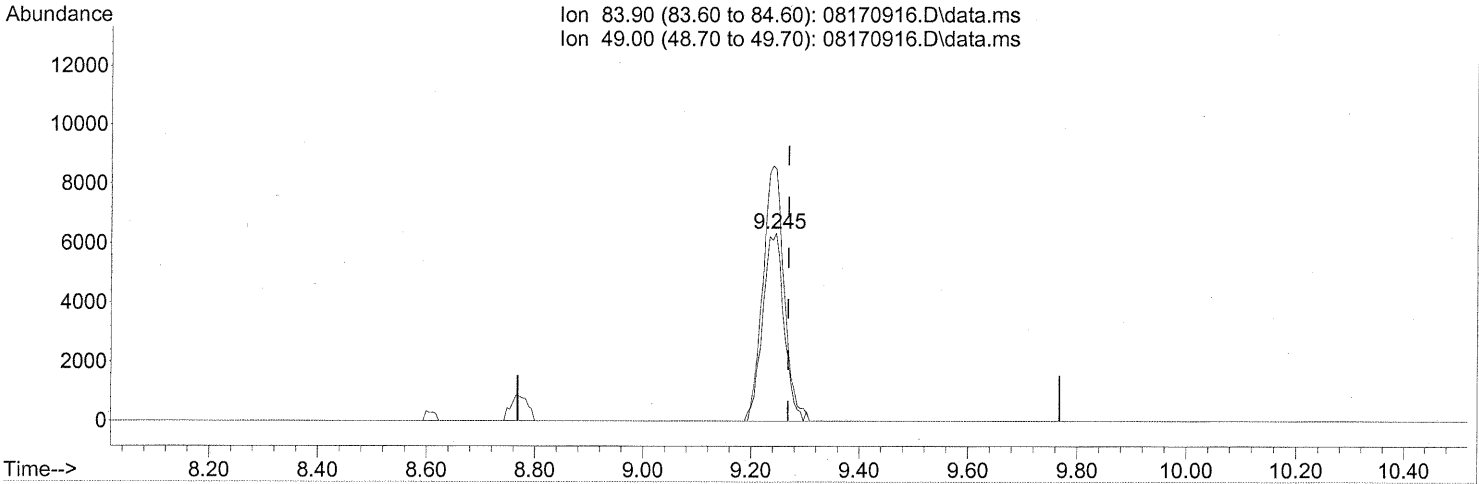
FP W 8/20/09

R 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.245min (-0.023) 1.72ng

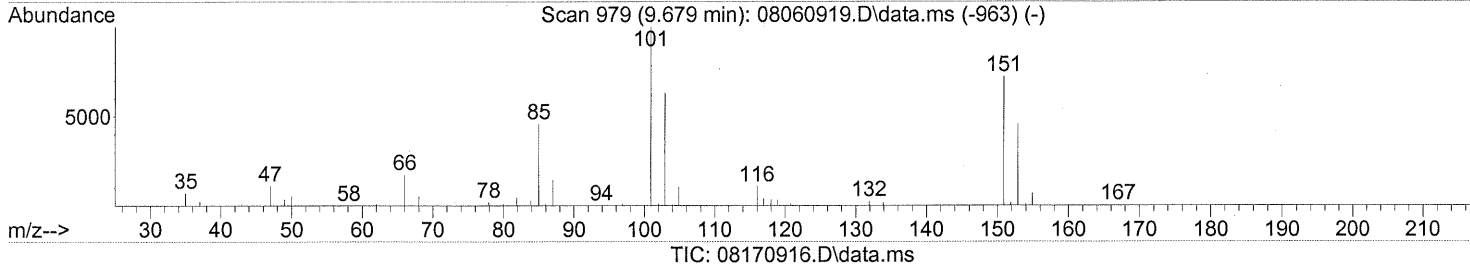
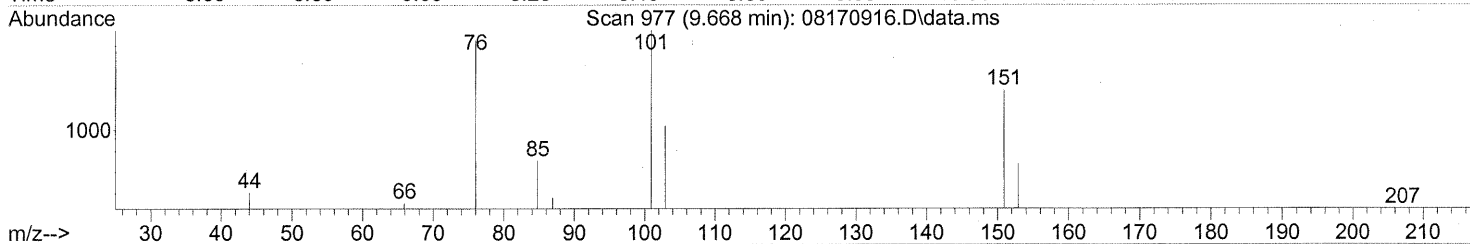
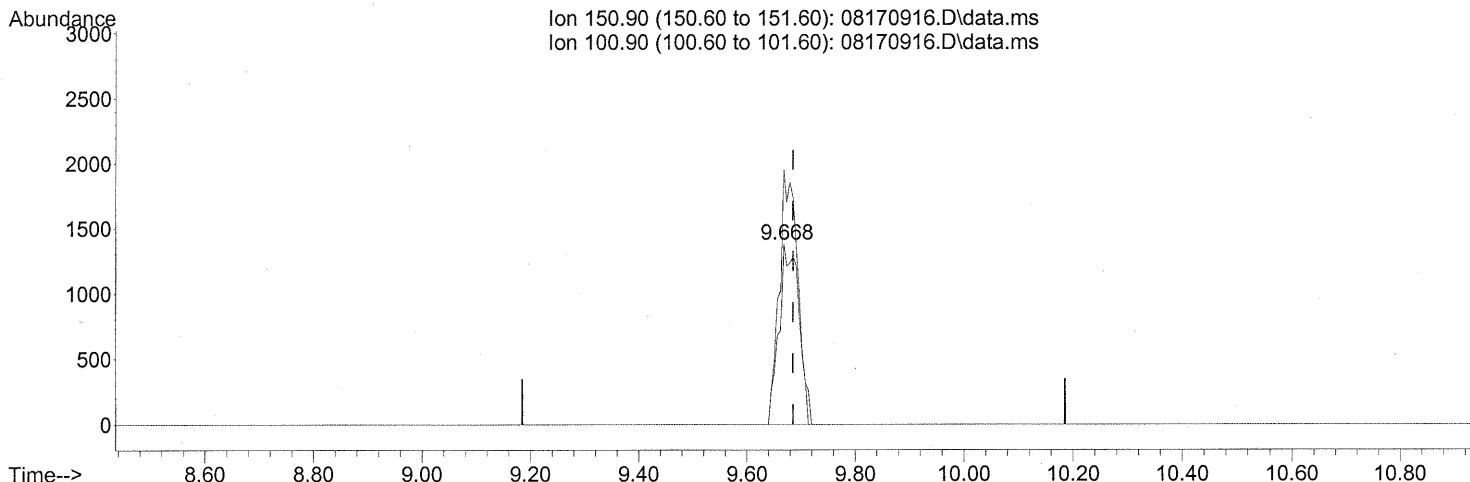
response 17466

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	134.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.668min (-0.017) 0.52ng

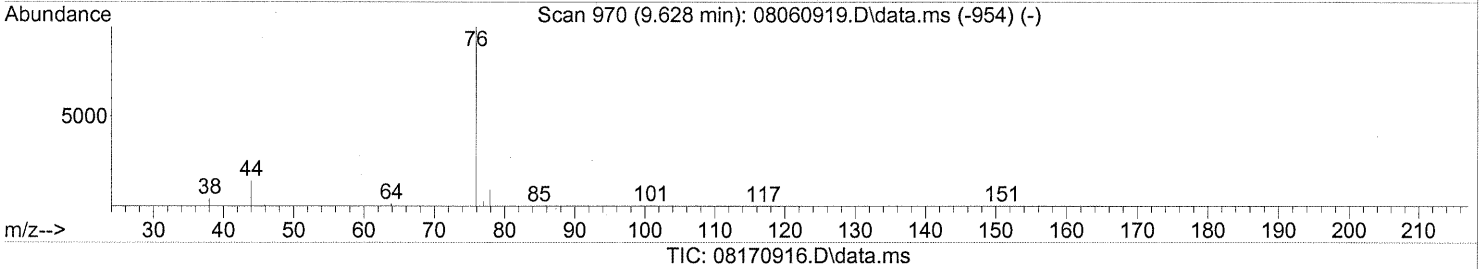
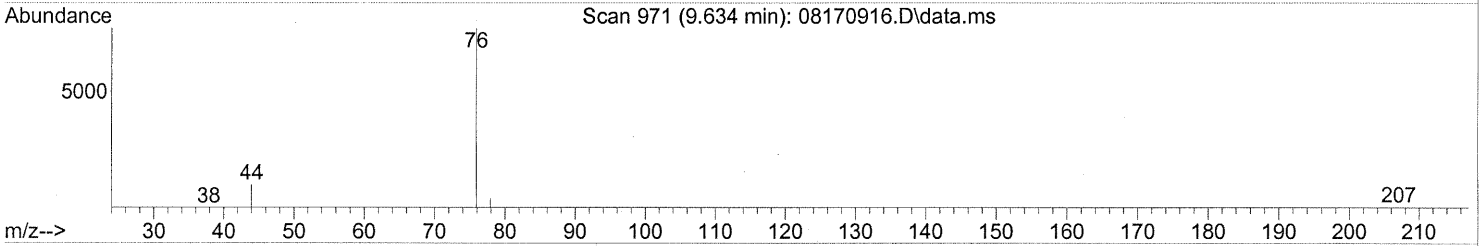
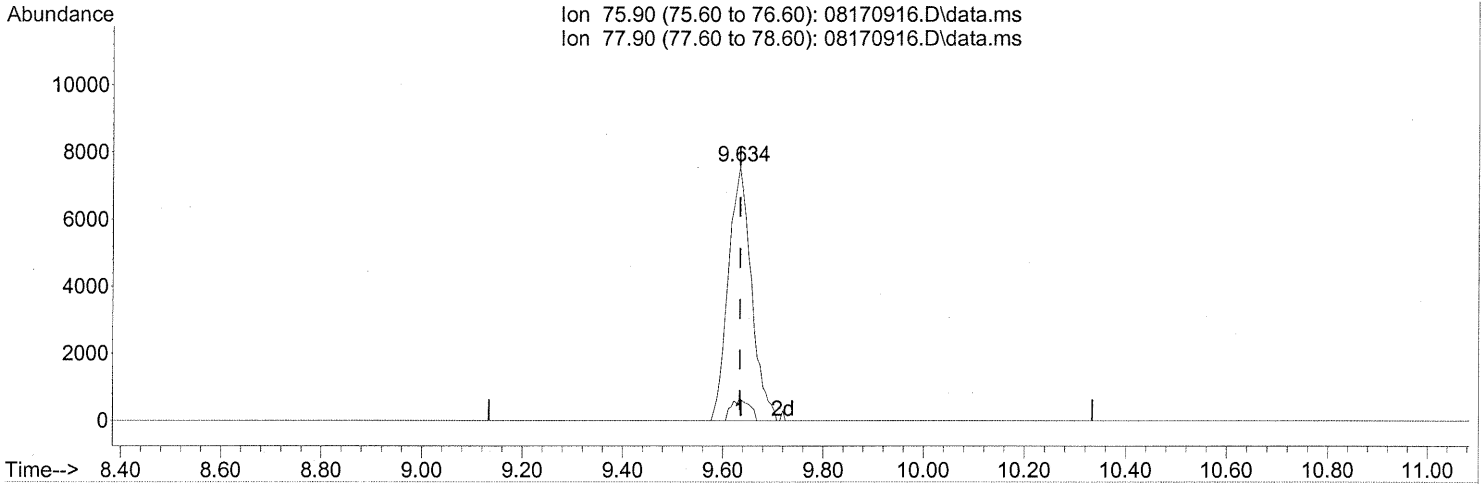
response 3538

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	128.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.634min (+0.000) 0.68ng

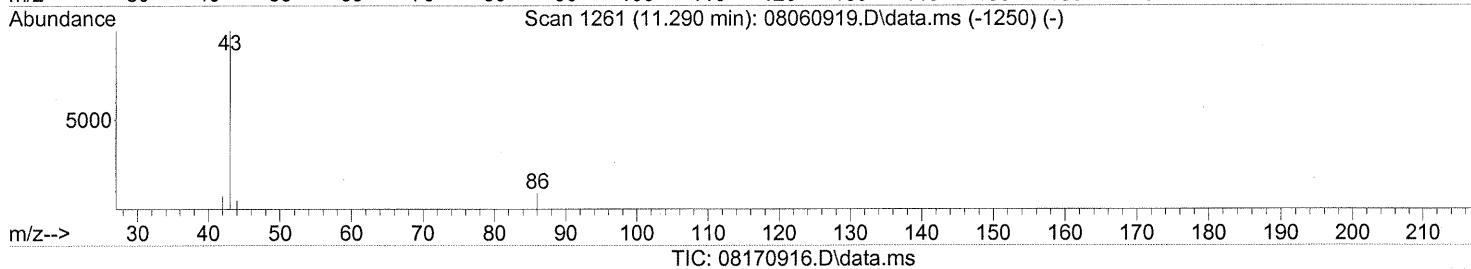
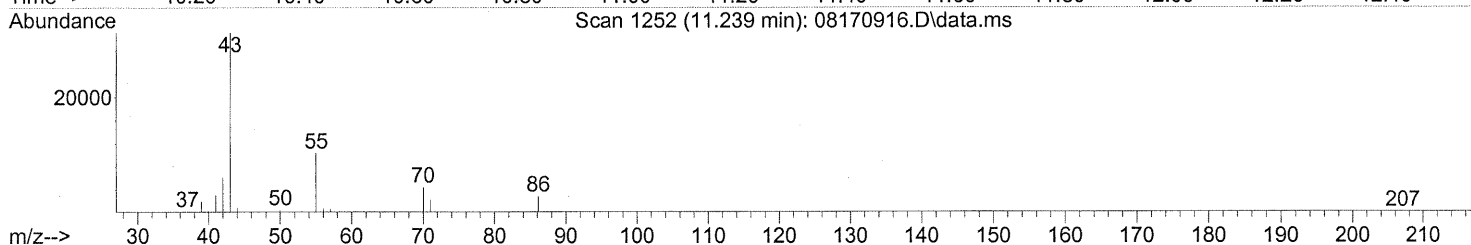
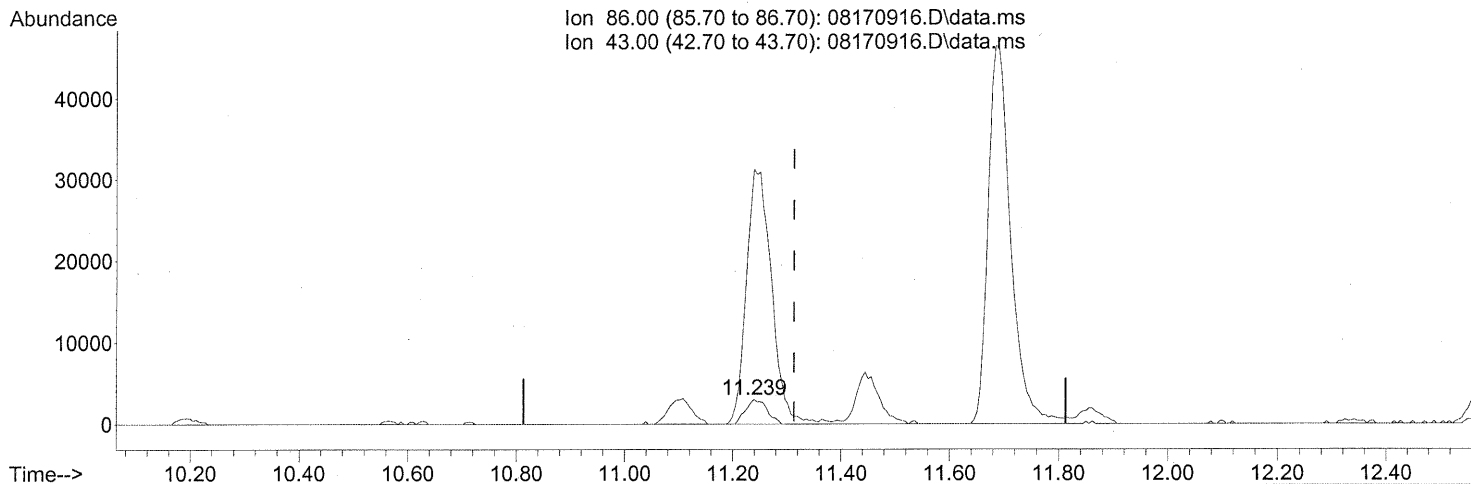
response 24216

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	6.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.239min (-0.074) 5.30ng

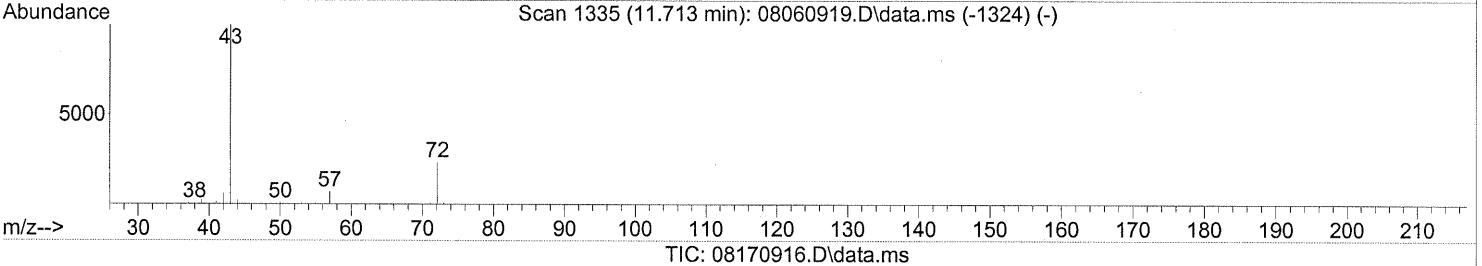
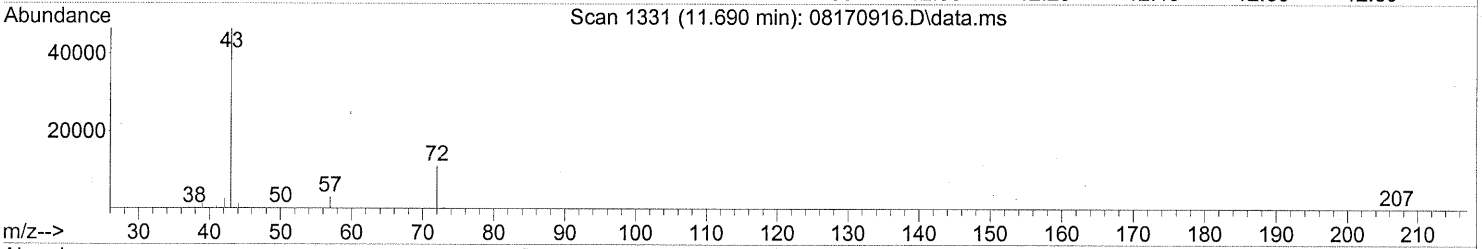
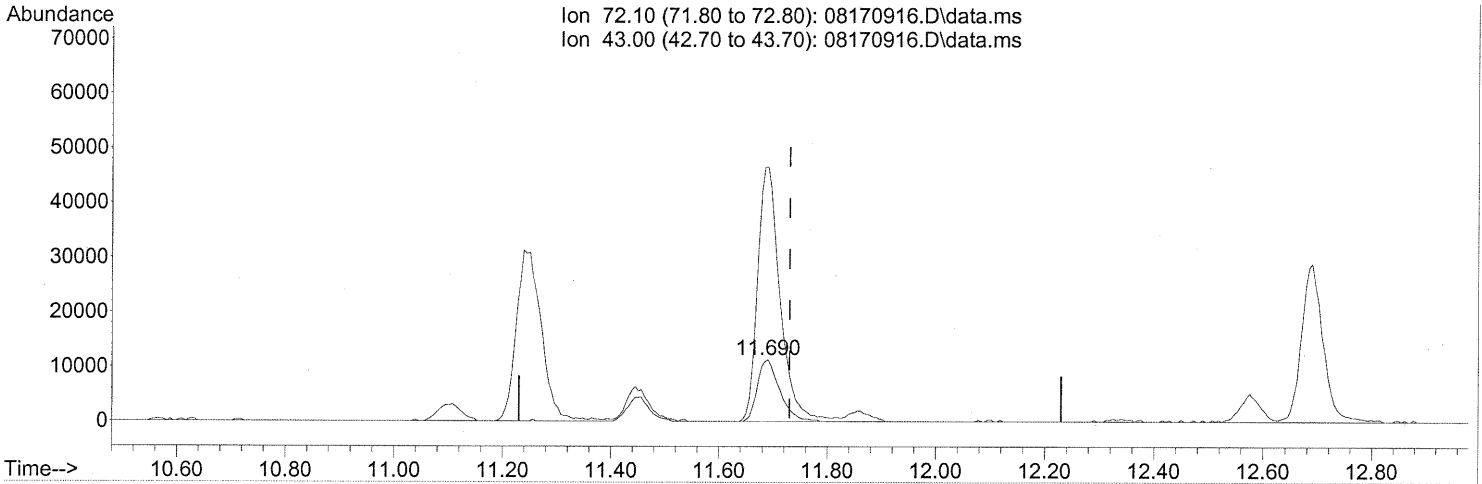
response 8164

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1227.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.690min (-0.040) 4.74ng

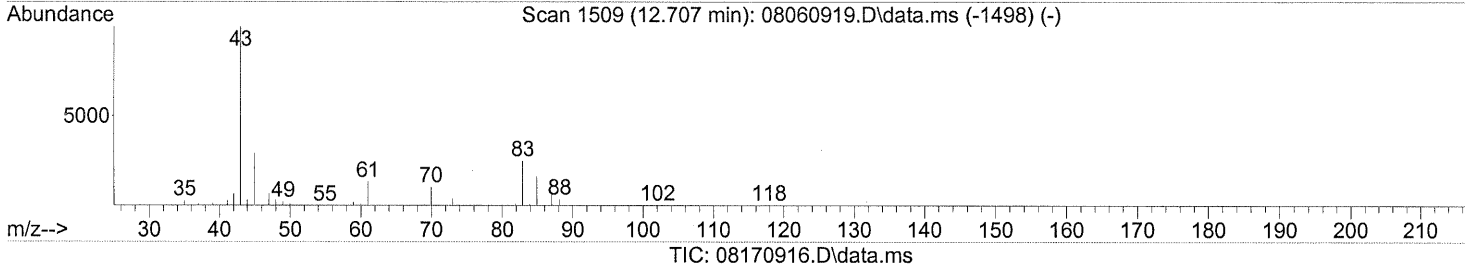
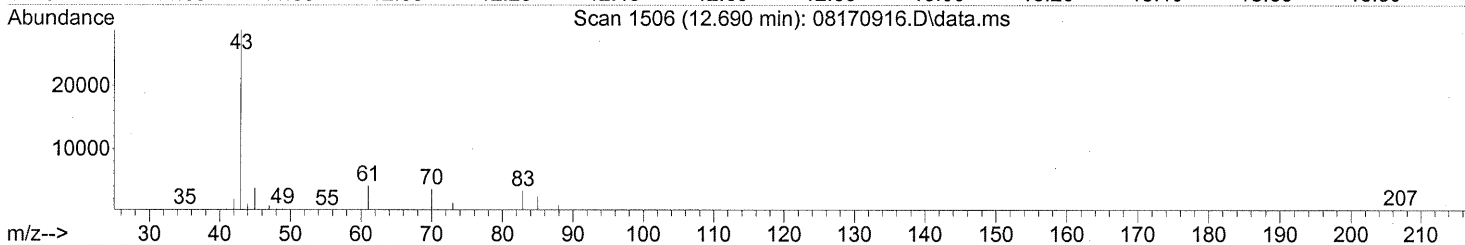
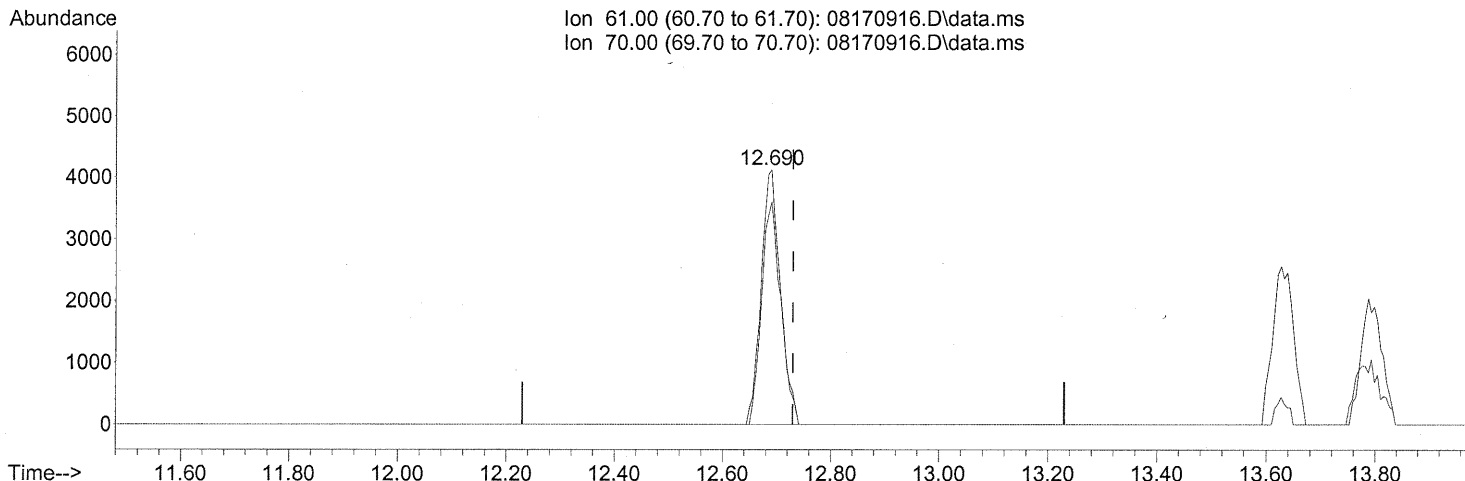
response 32413

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	416.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.690min (-0.040) 2.88ng

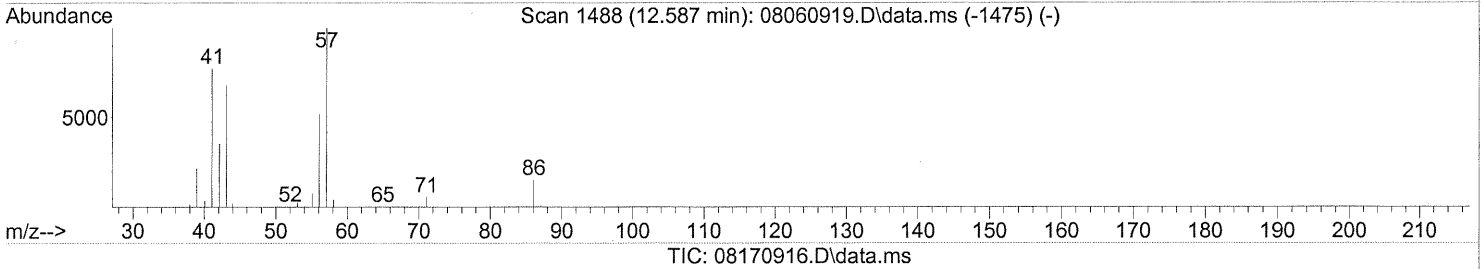
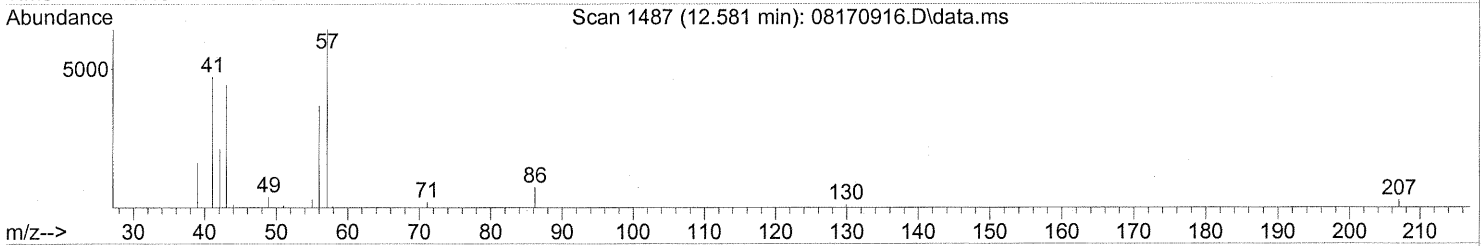
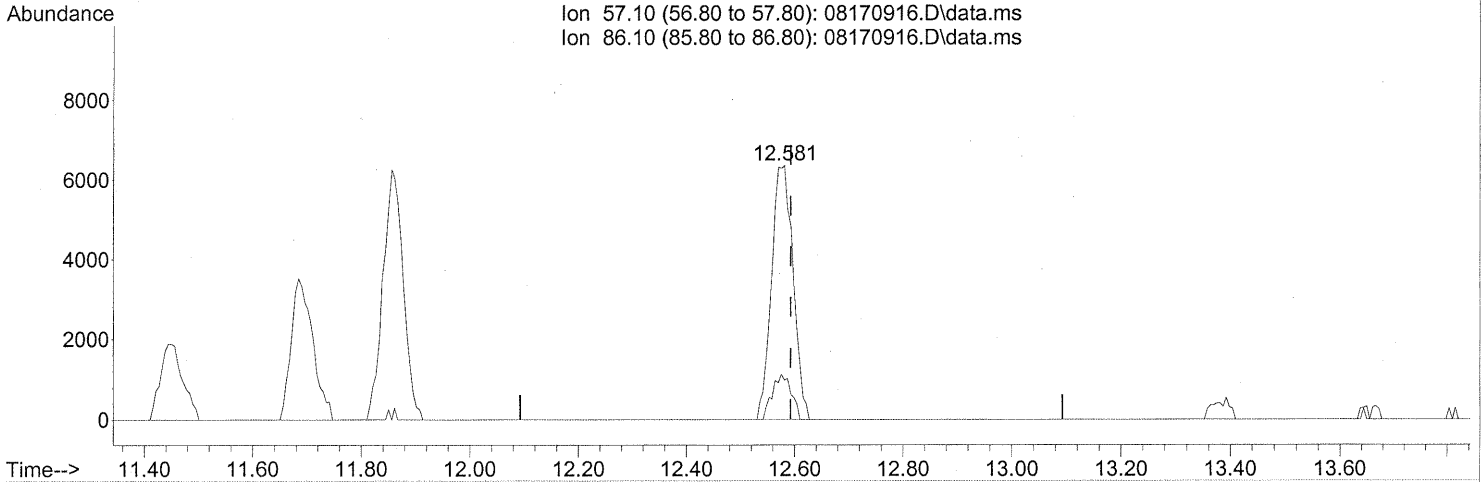
response 10268

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	87.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



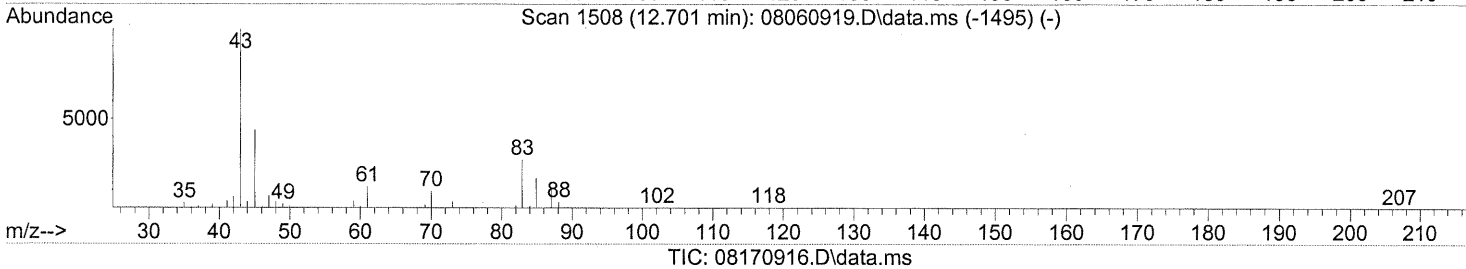
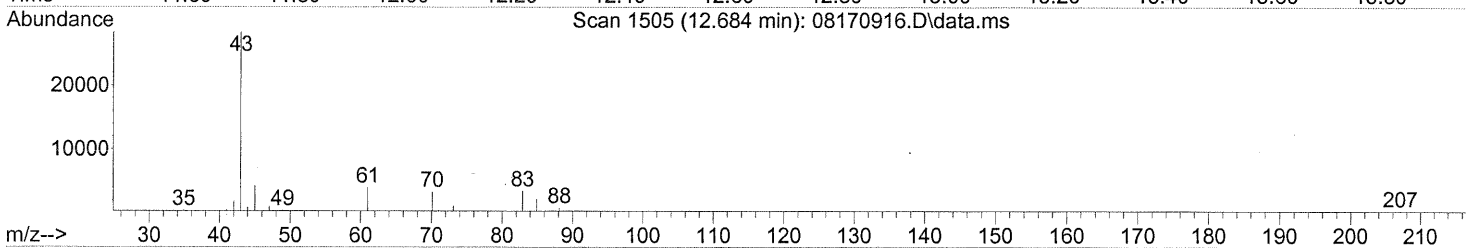
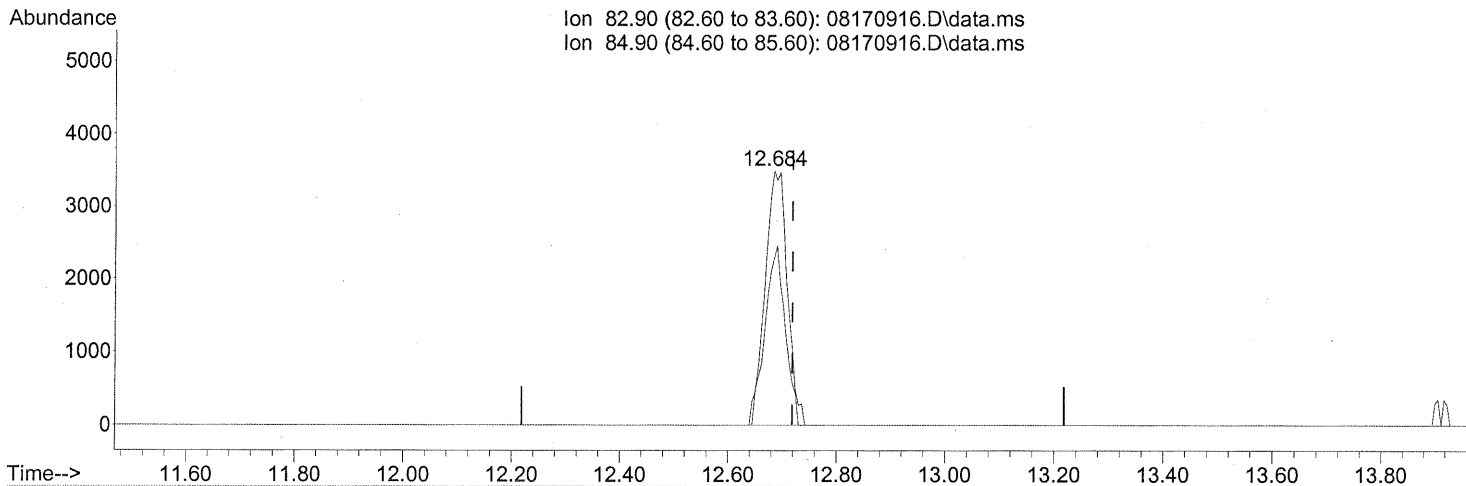
(31) n-Hexane (T)
12.581min (-0.011) 0.96ng
response 17516

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



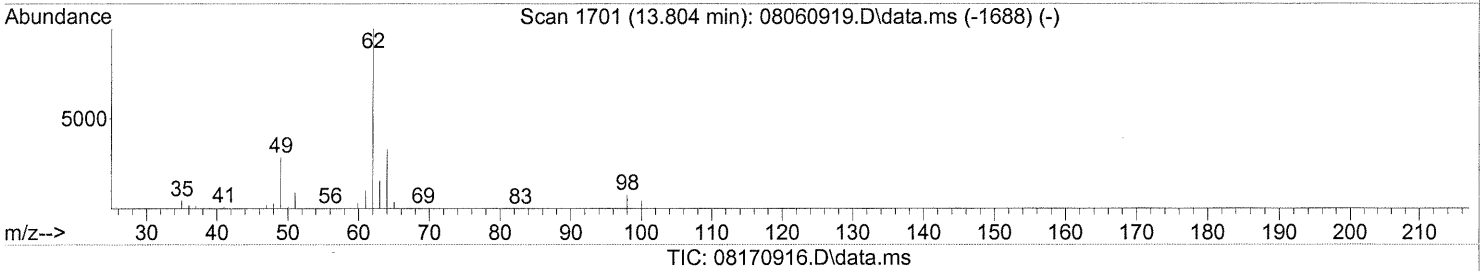
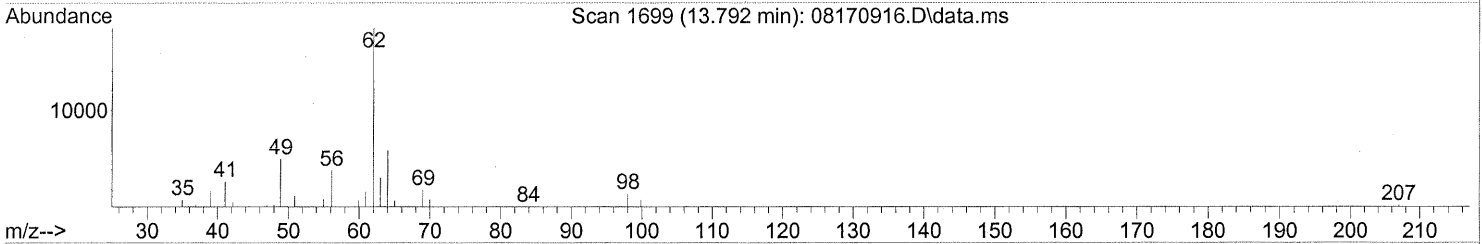
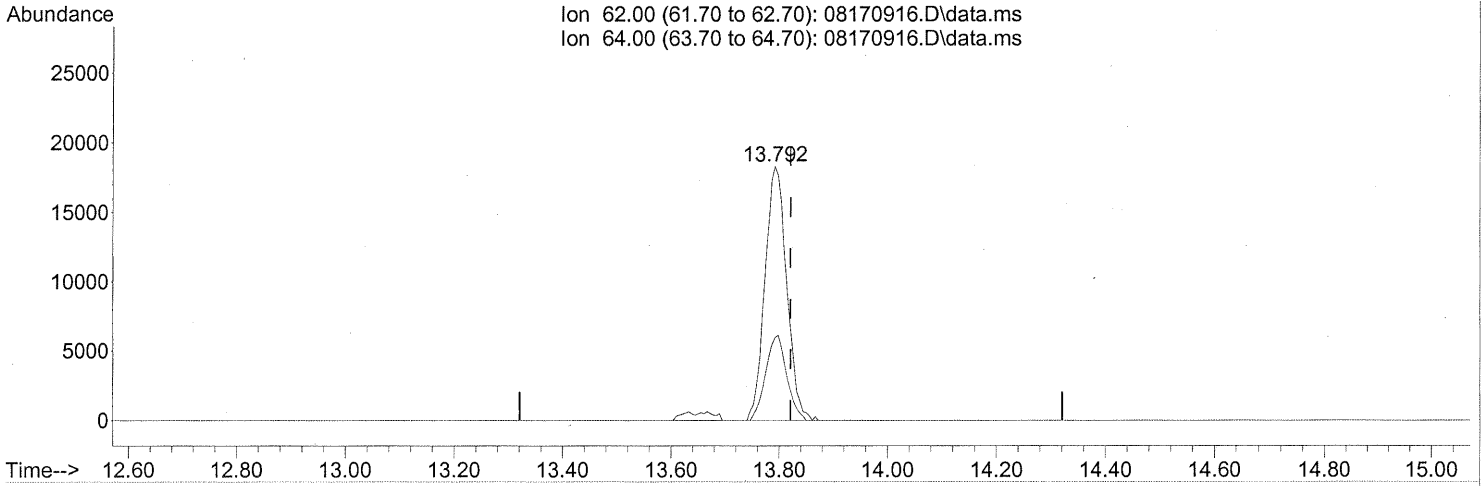
(32) Chloroform (T)
 12.684min (-0.034) 0.62ng
 response 10002

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	63.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.028) 3.46ng

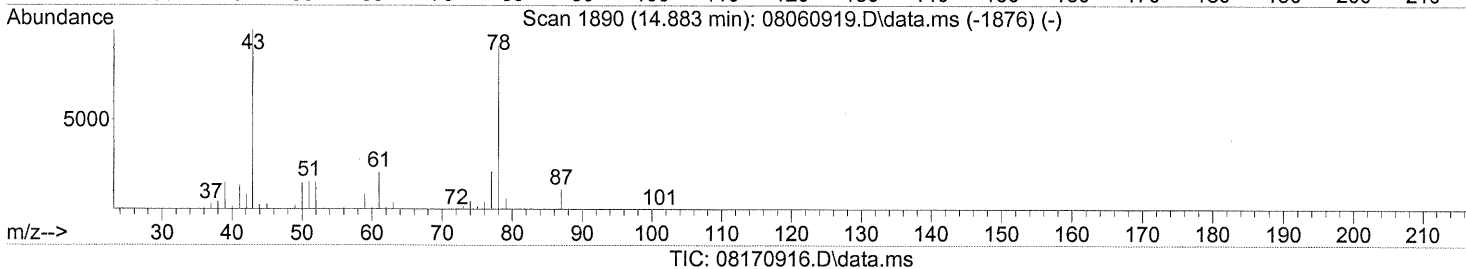
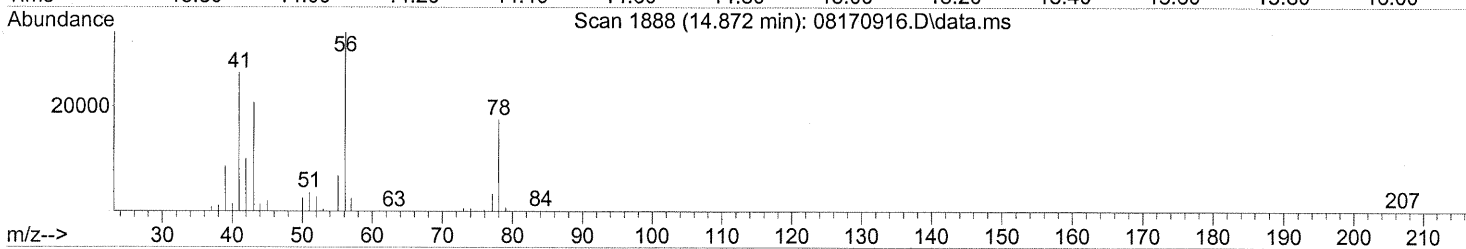
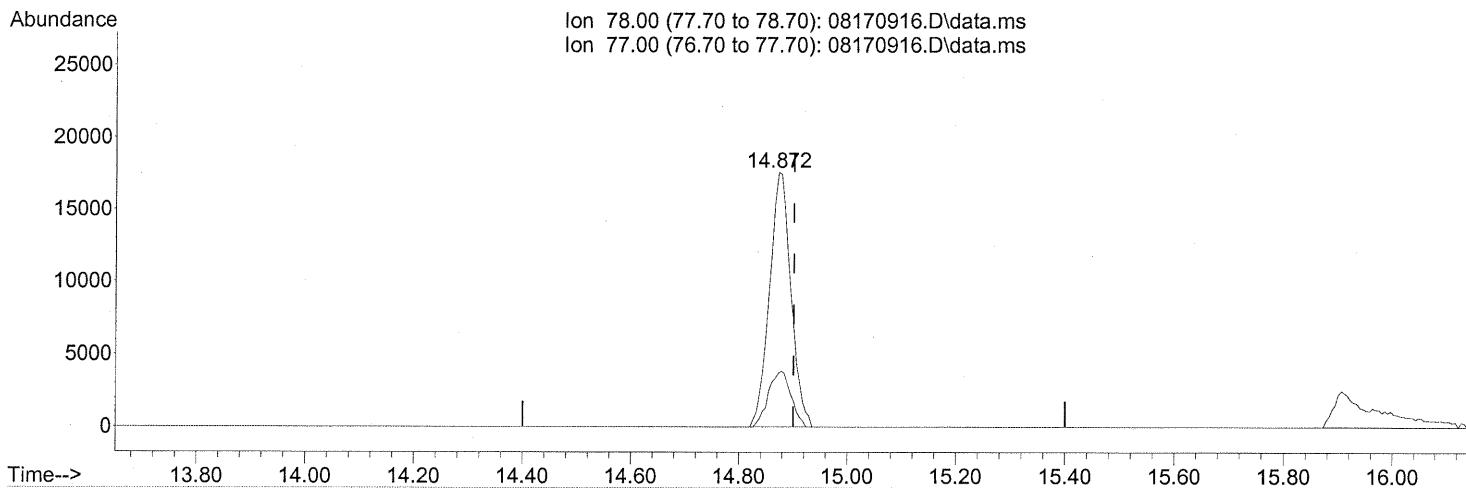
response 50742

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	32.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



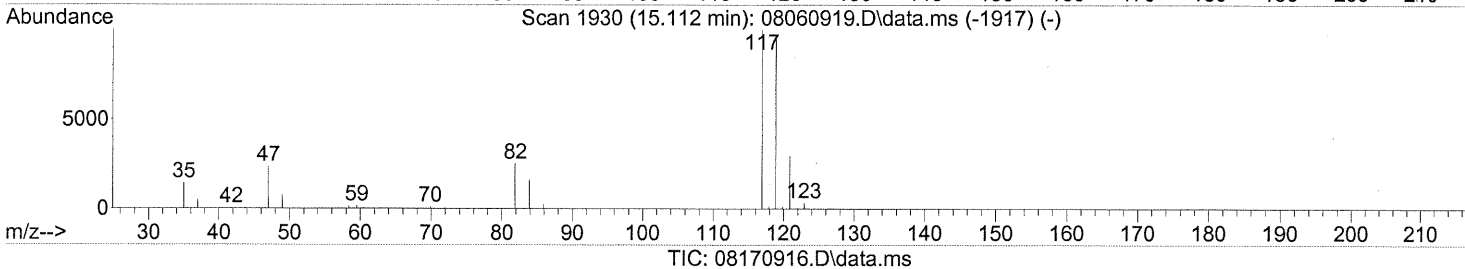
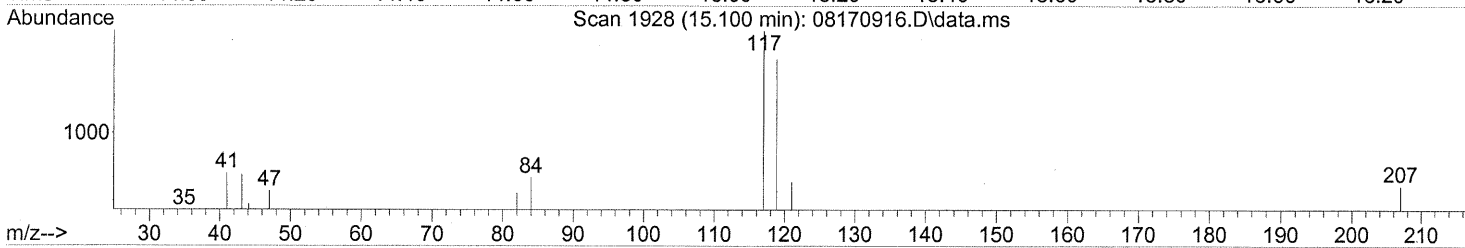
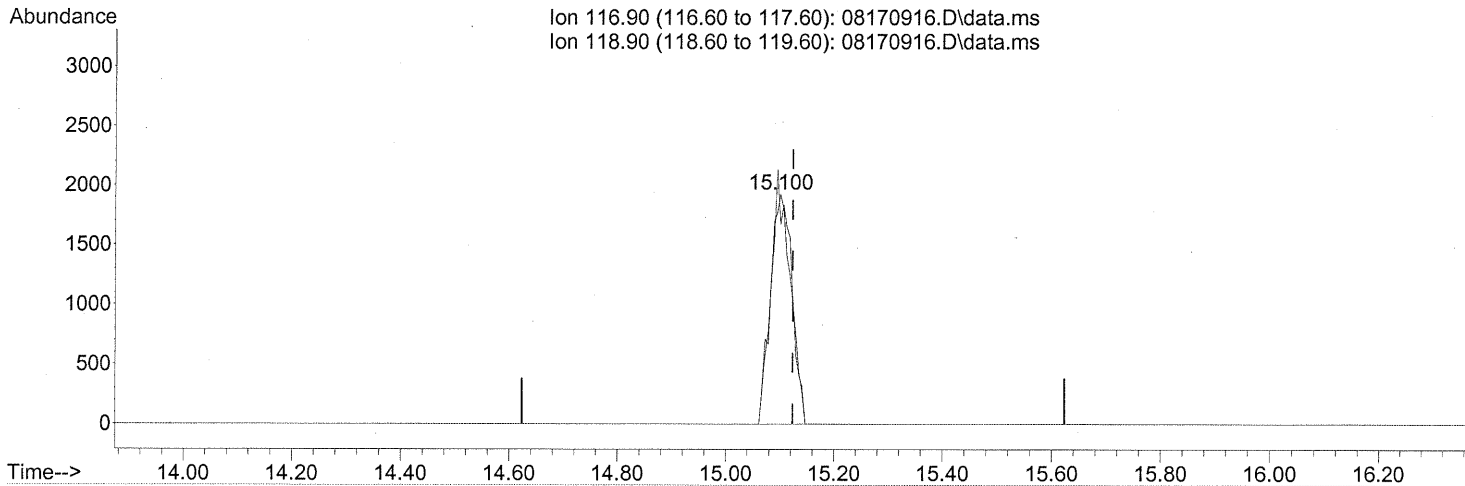
(41) Benzene (T)
 14.872min (-0.028) 1.15ng
 response 48249

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.39ng

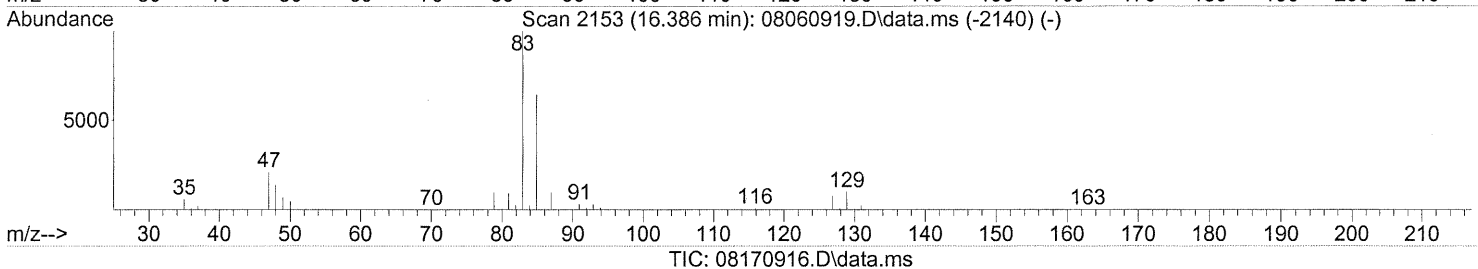
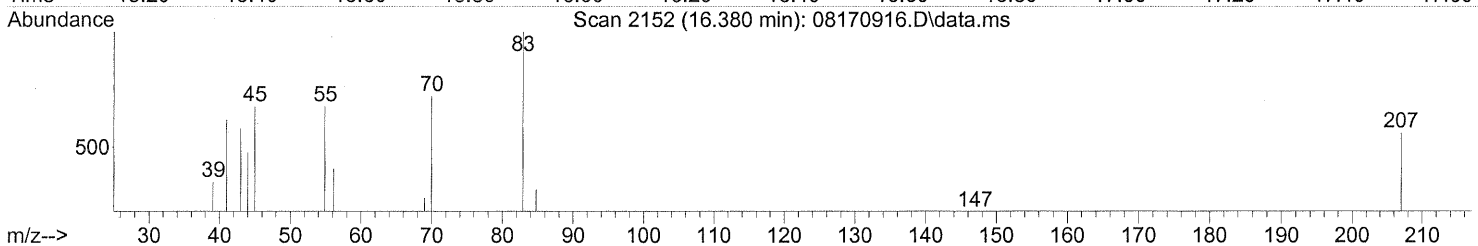
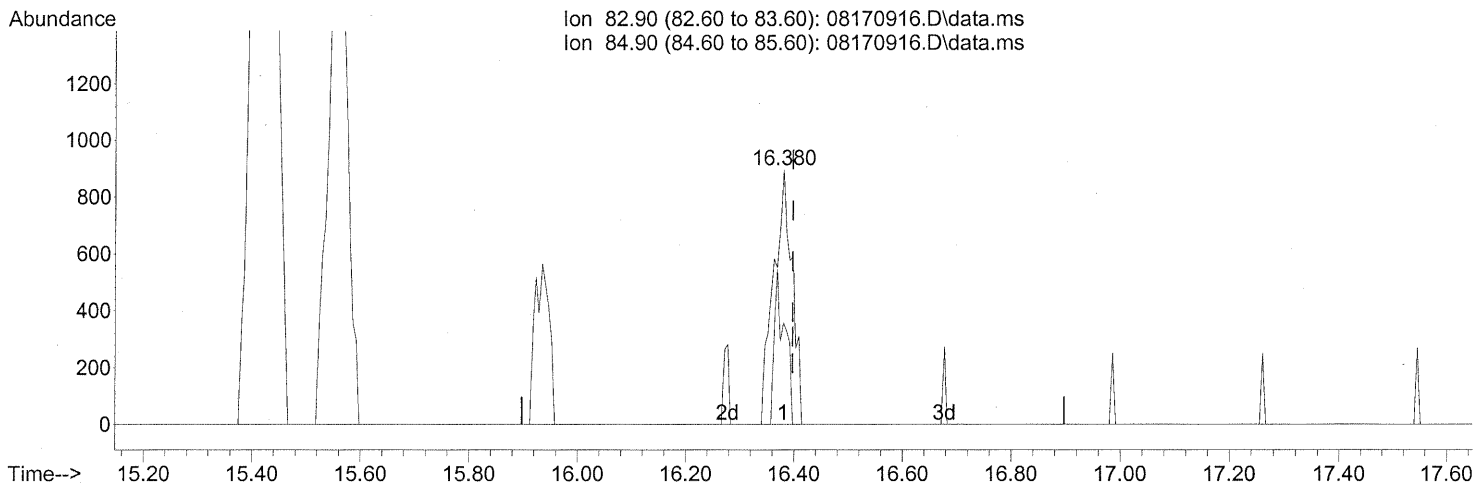
response 5199

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	102.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.15ng

response 2122

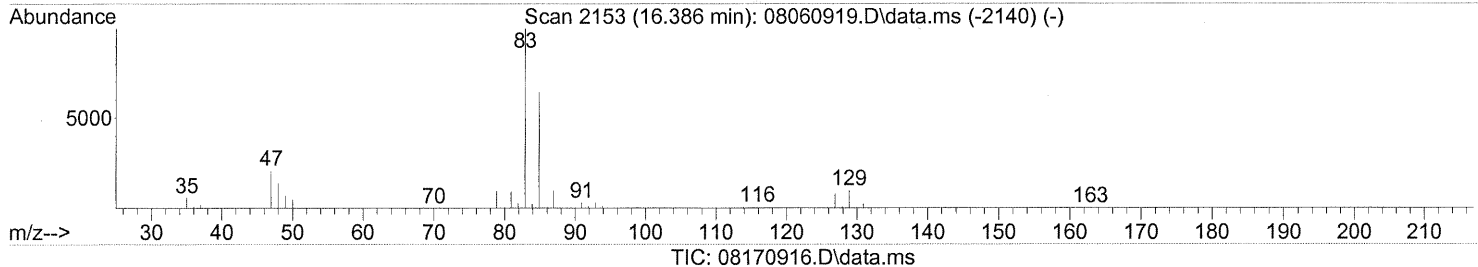
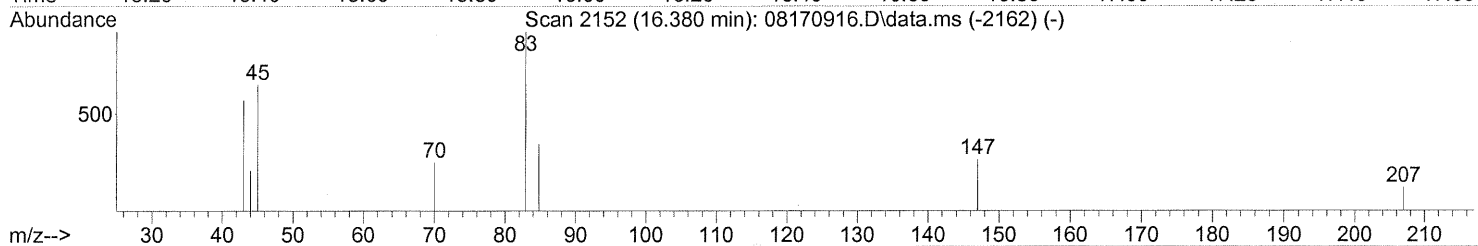
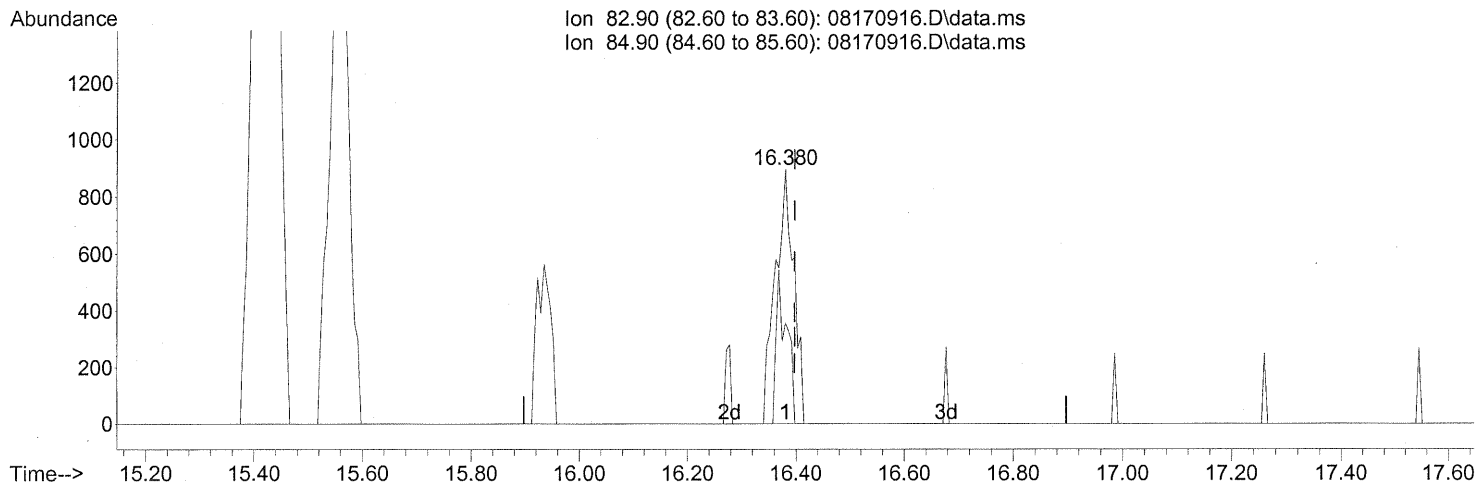
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	34.07#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.15ng

response 2122

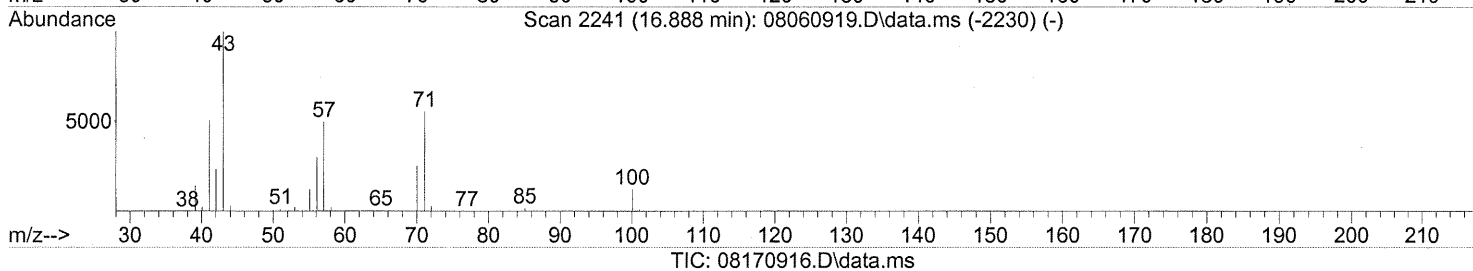
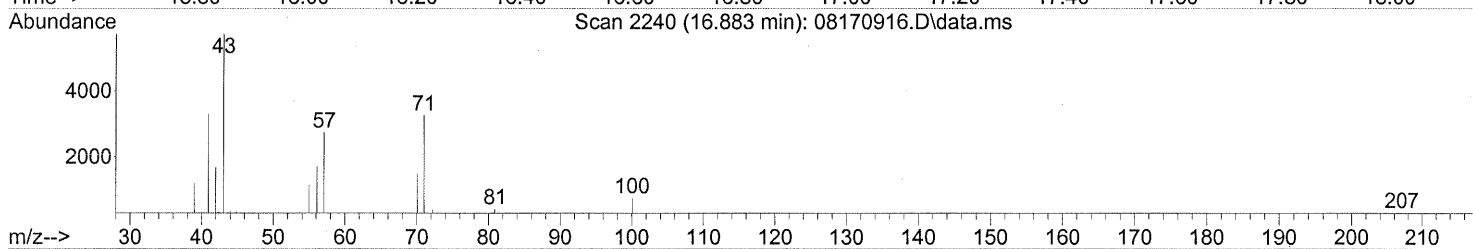
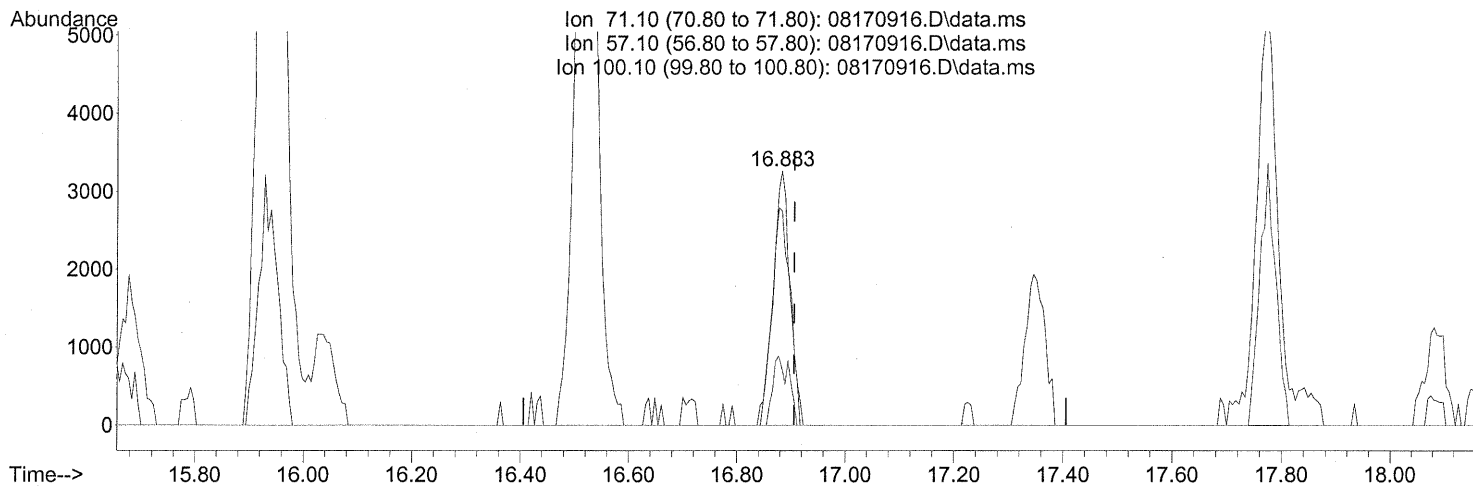
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	34.07#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



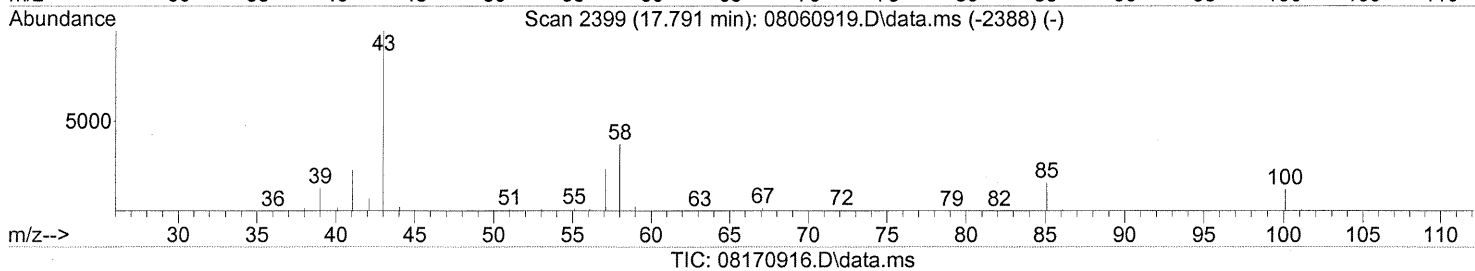
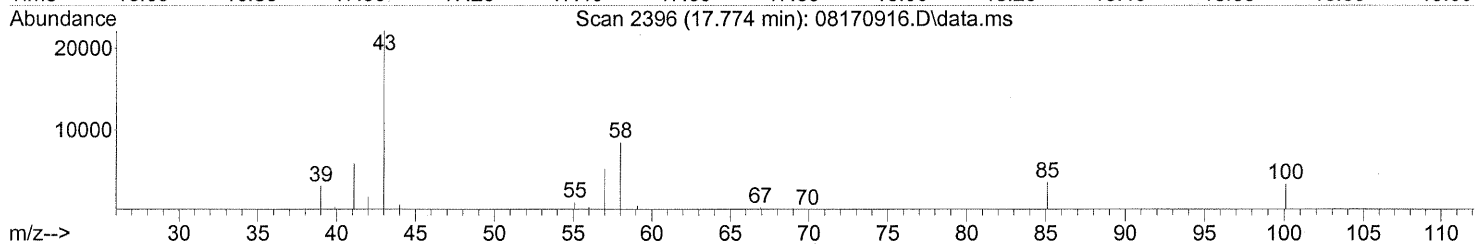
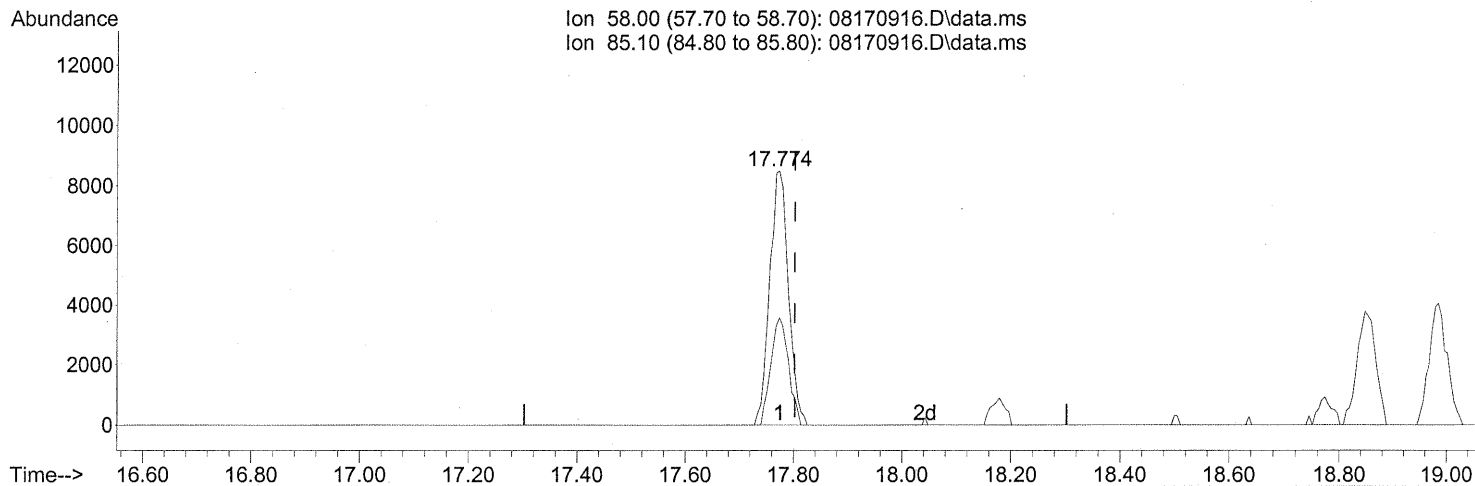
(51) n-Heptane (T)
 16.883min (-0.023) 0.62ng
 response 7046

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	93.32
100.10	26.40	25.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.774min (-0.028) 2.02ng

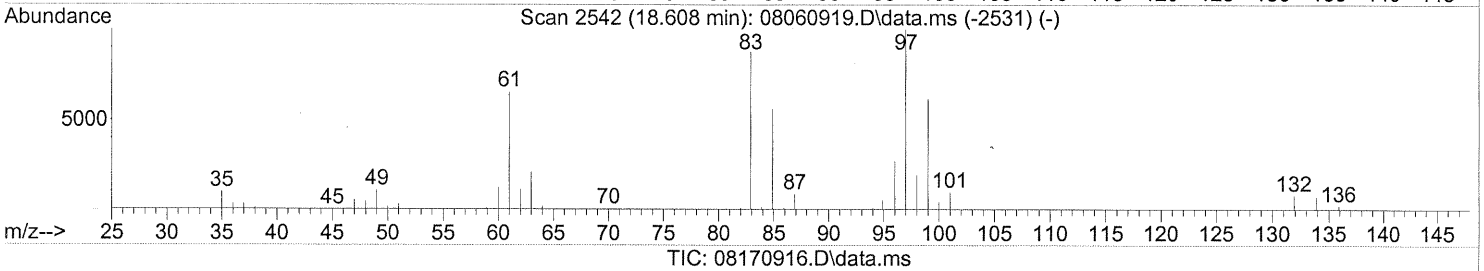
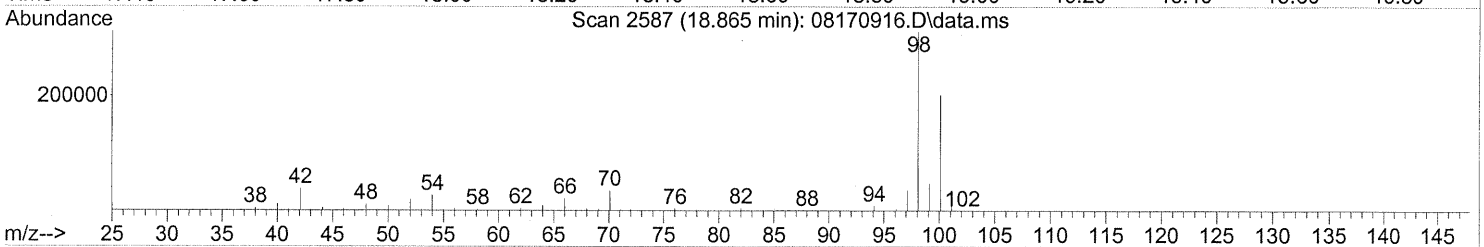
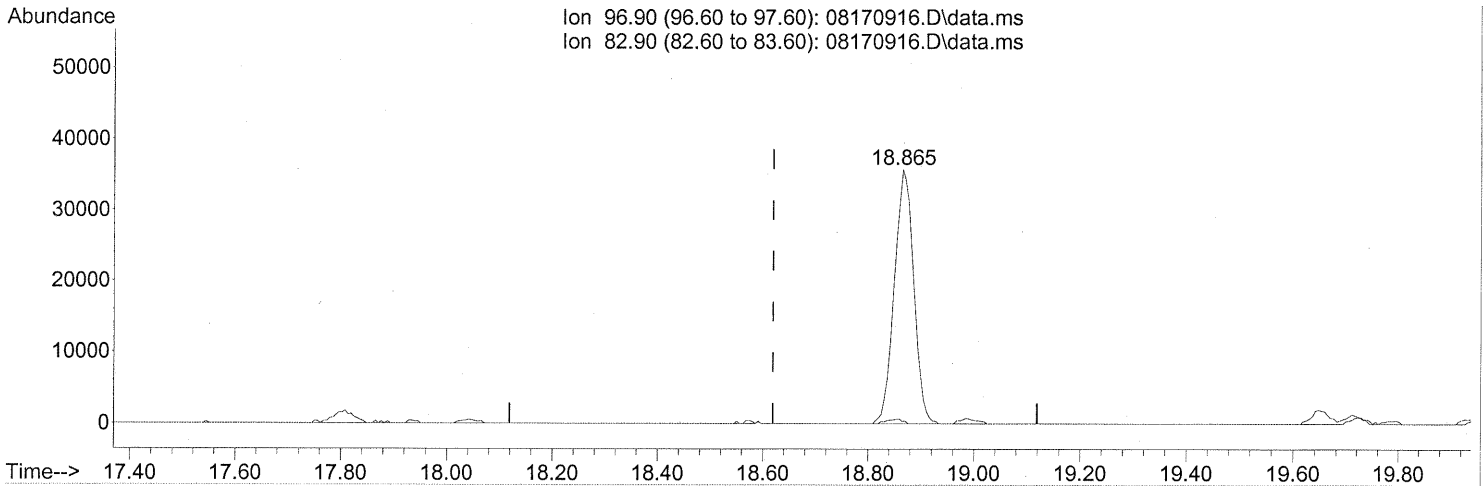
response 20380

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	39.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.87ng

response 91081

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.46#
0.00	0.00	0.00
0.00	0.00	0.00

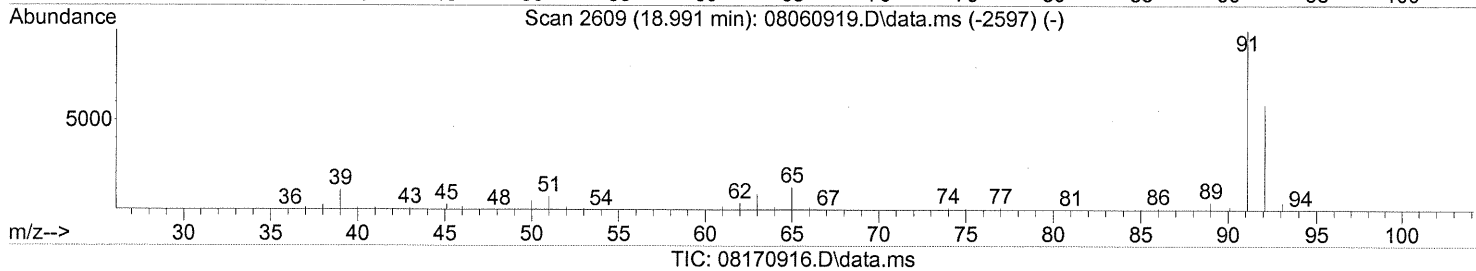
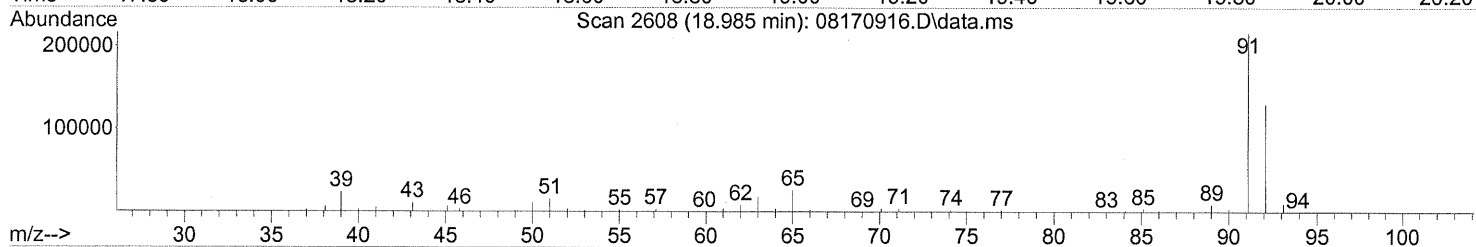
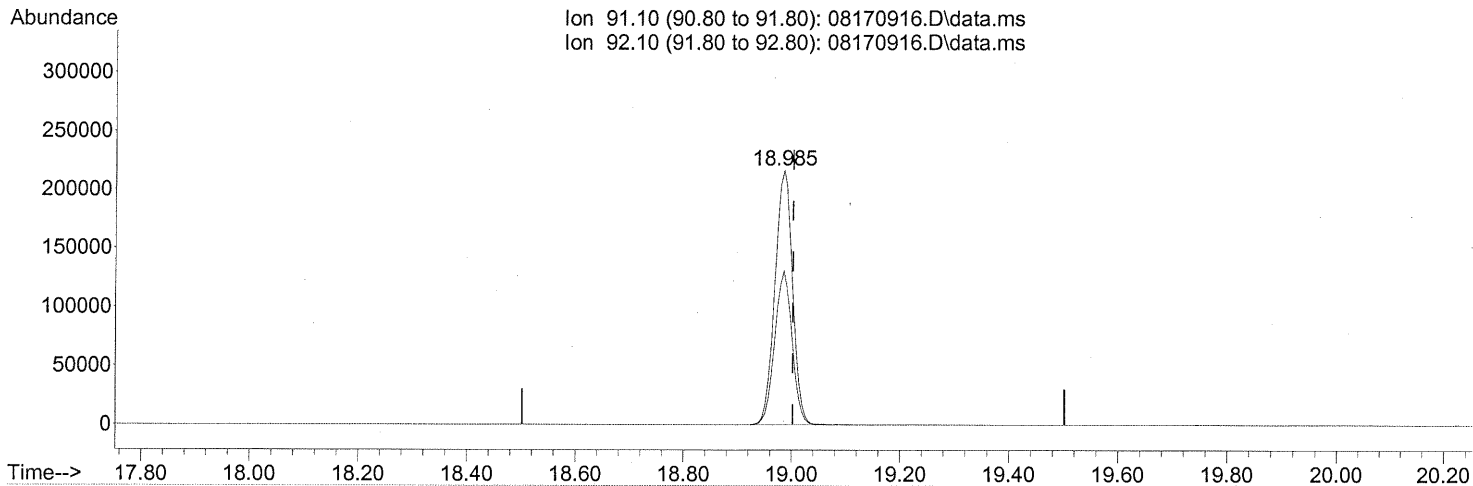
FP W 8/20/09

L 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 12.55ng

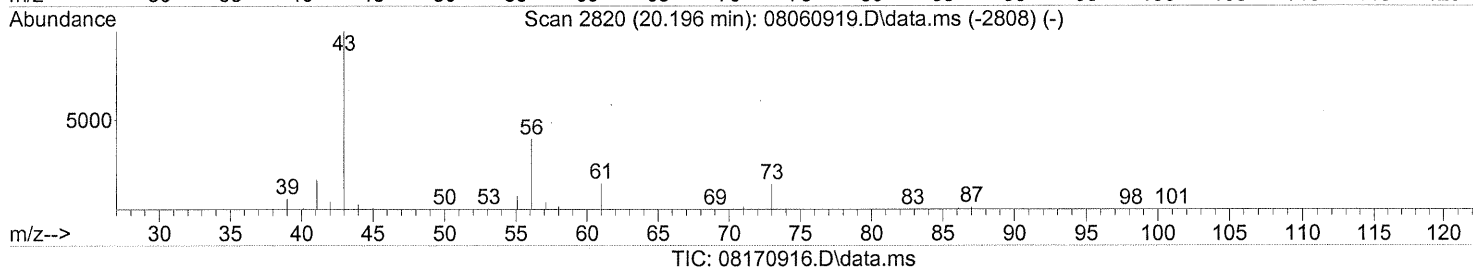
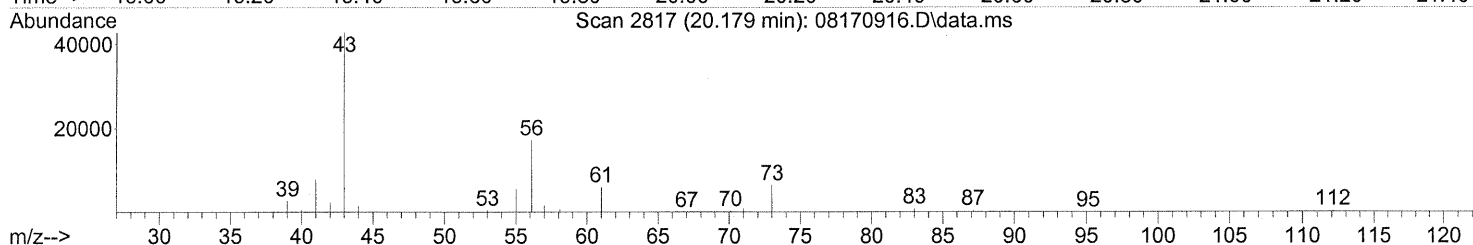
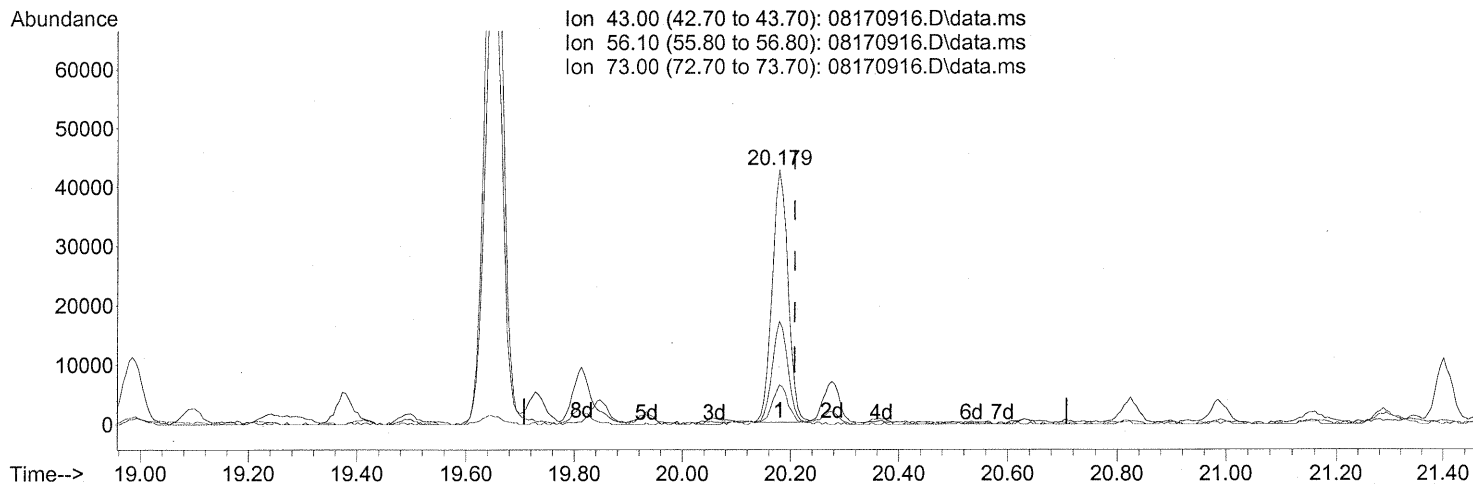
response 492979

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



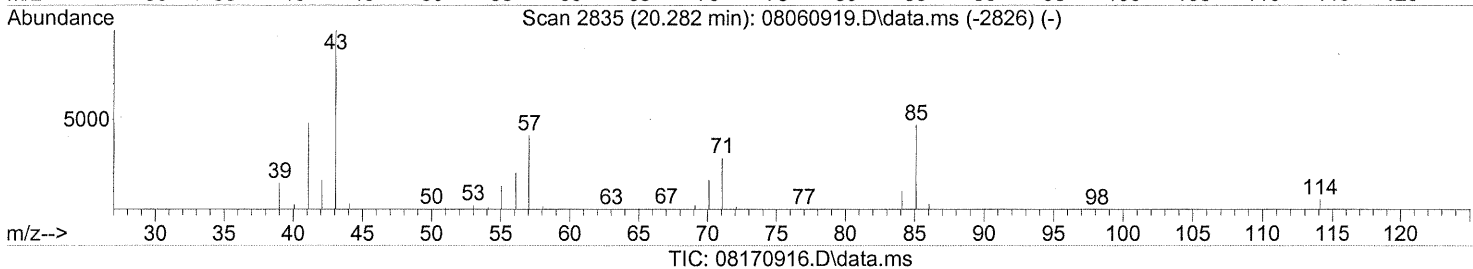
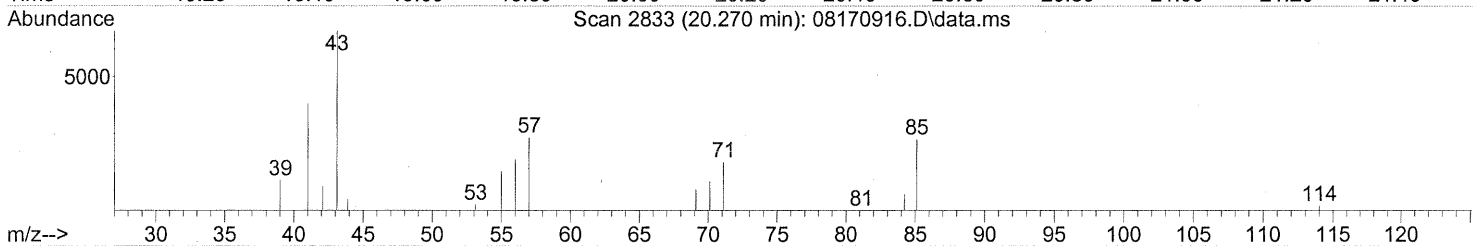
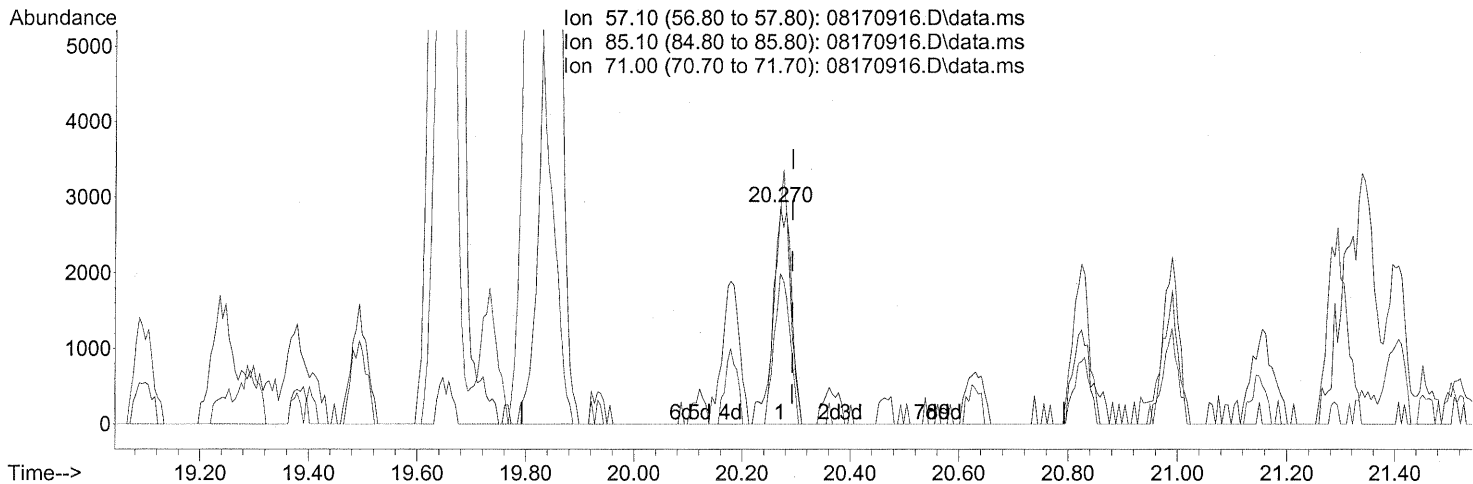
(62) n-Butyl Acetate (T)
 20.179min (-0.028) 2.83ng
 response 87150

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	41.87
73.00	14.80	16.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.270min (-0.023) 0.69ng

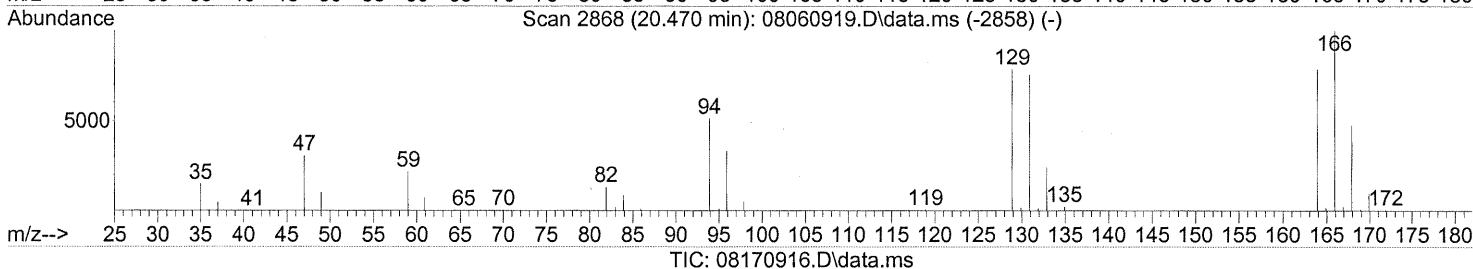
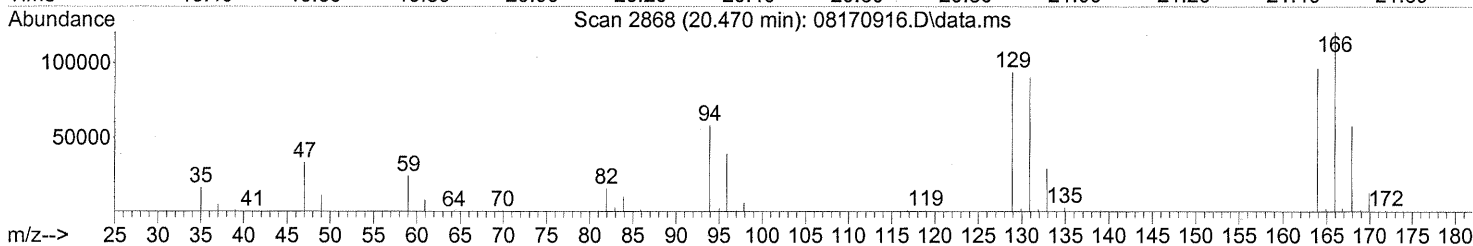
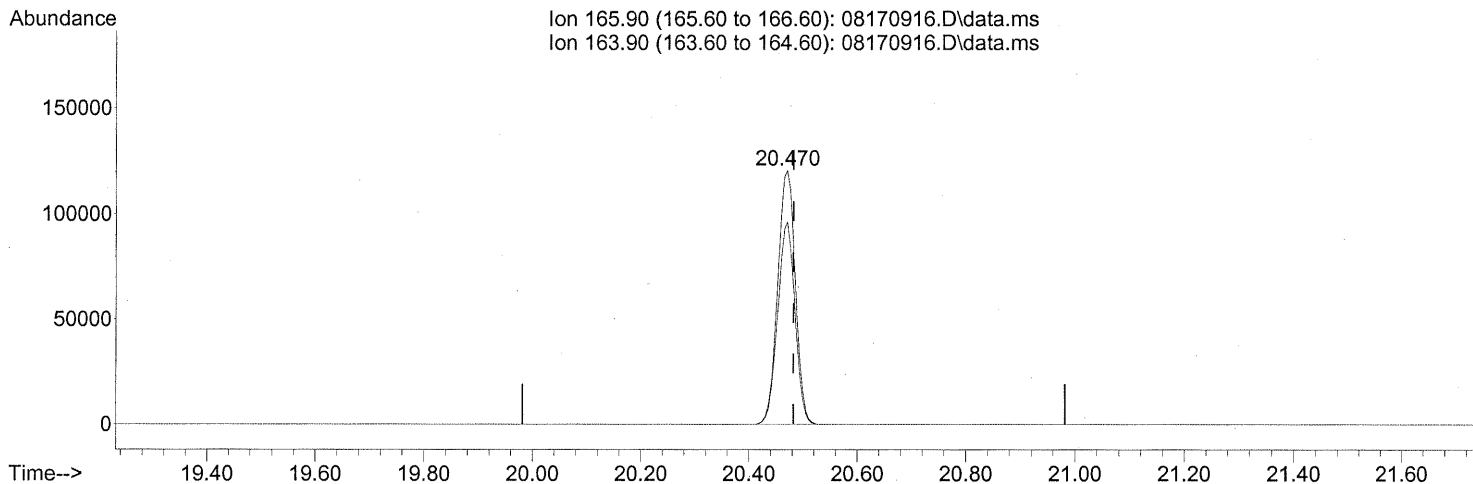
response 6591

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	98.97
71.00	68.10	60.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



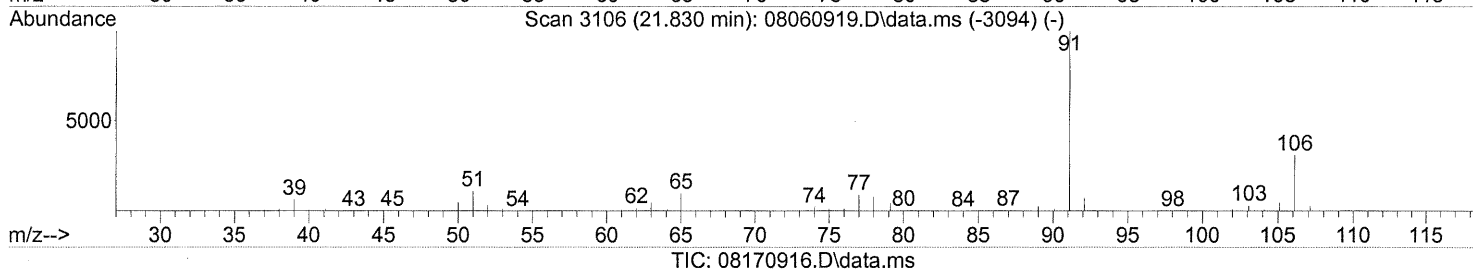
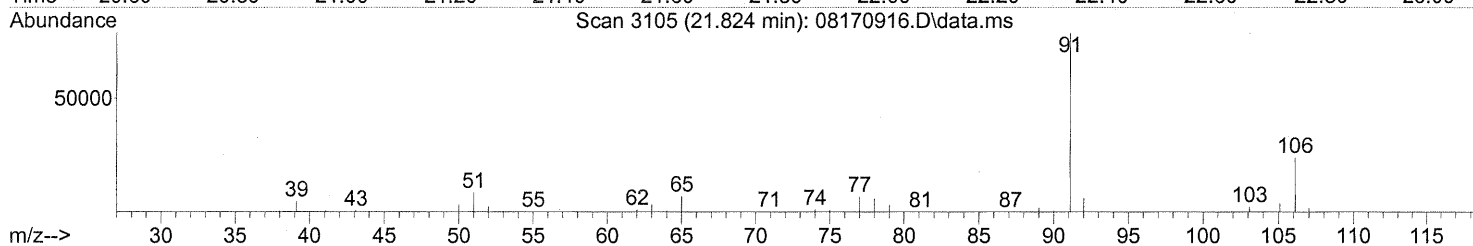
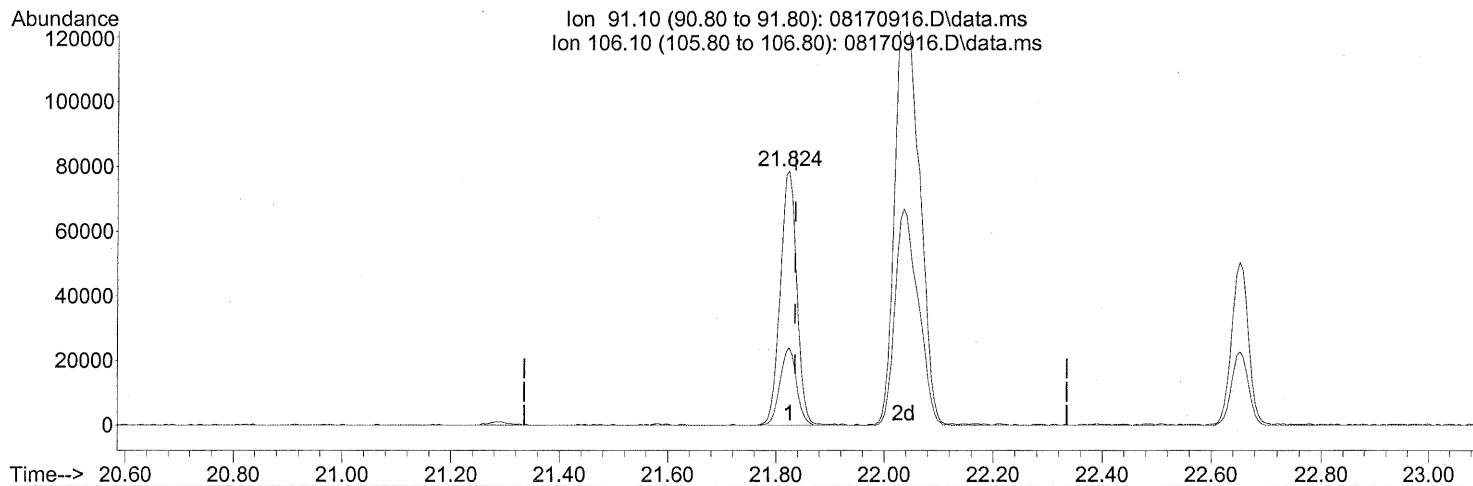
(64) Tetrachloroethene (T)
20.470min (-0.011) 29.94ng
response 272067

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	78.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(66) Ethylbenzene (T)

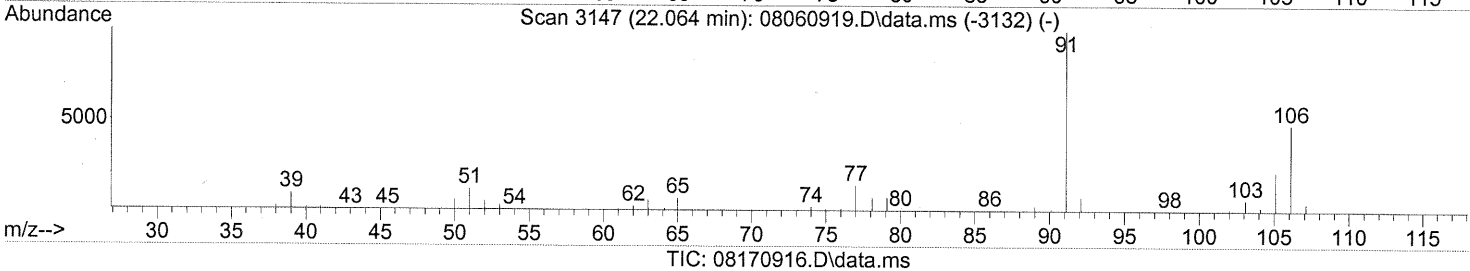
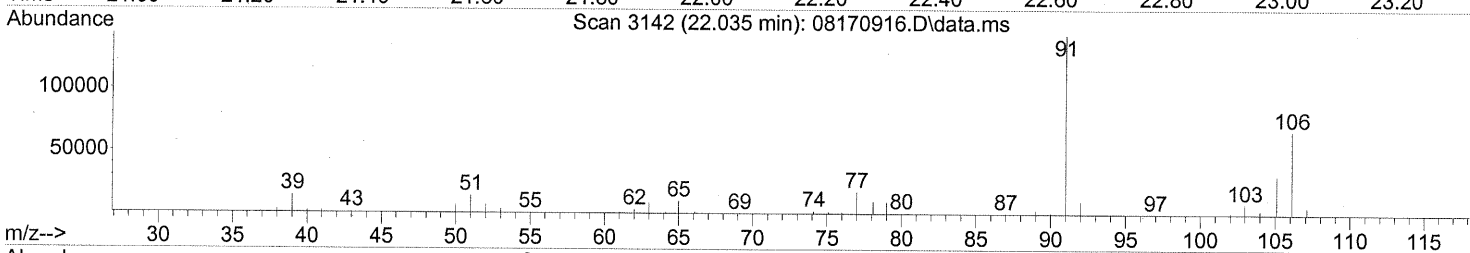
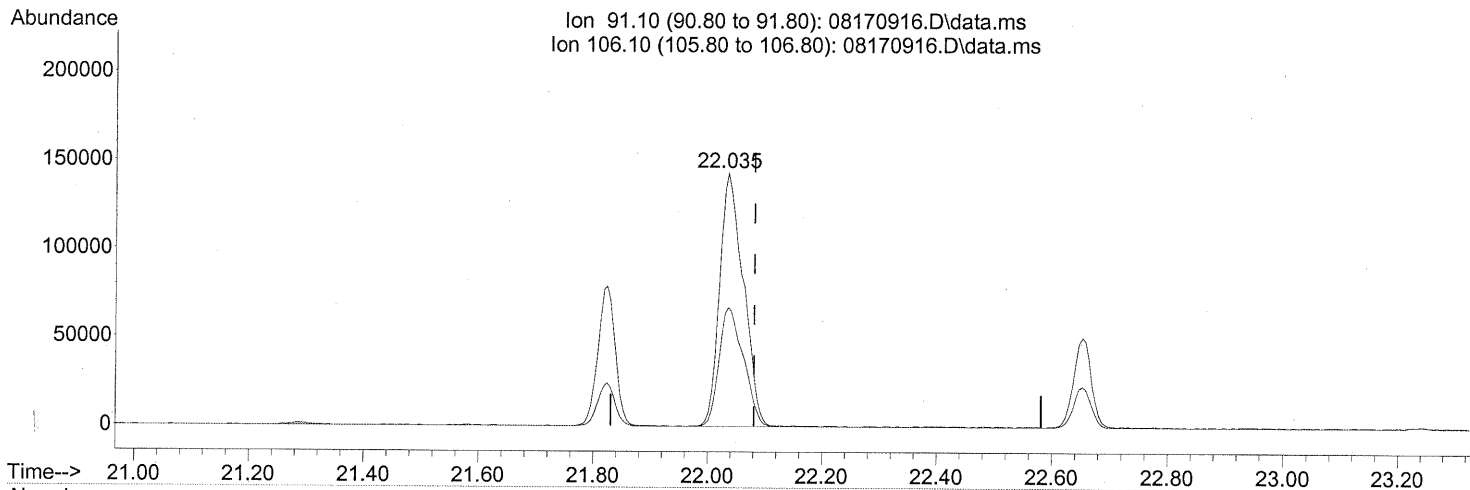
21.824min (-0.011) 3.74ng
 response 167920

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 11.46ng

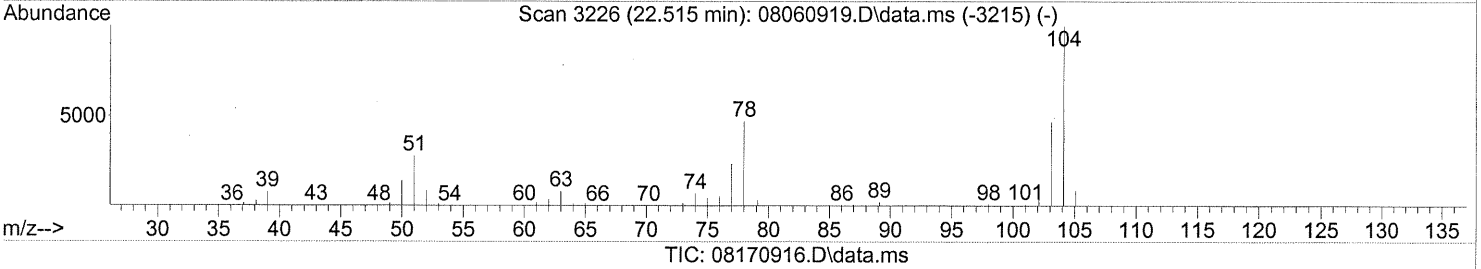
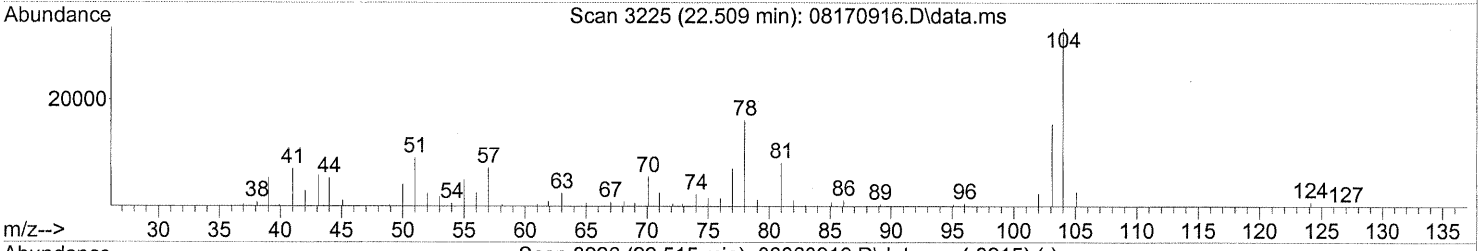
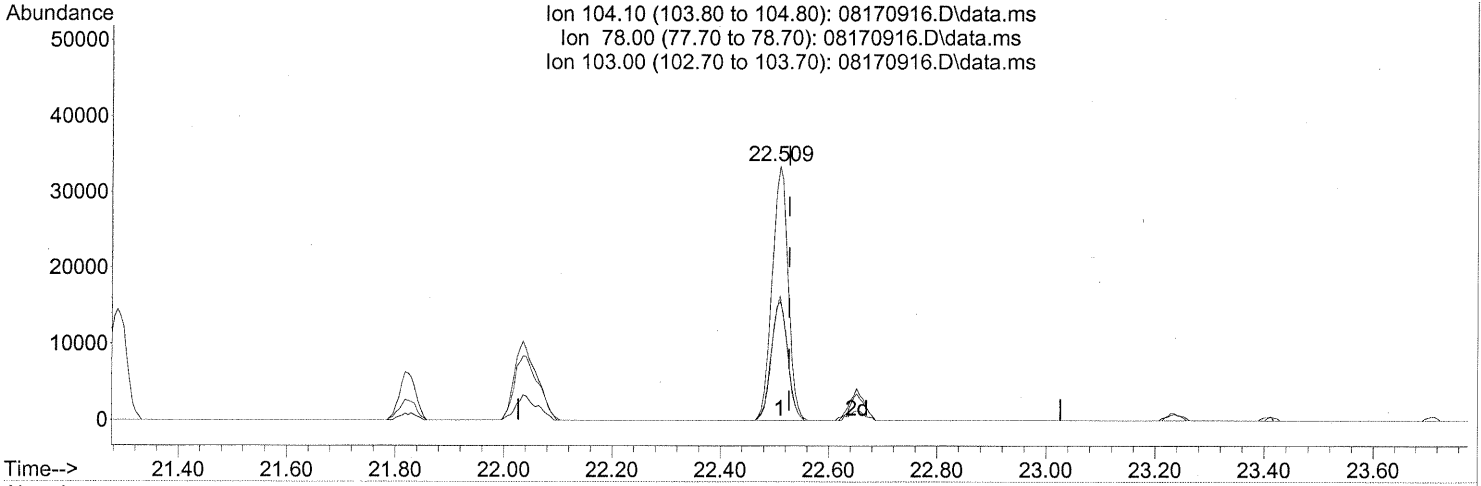
response 416243

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



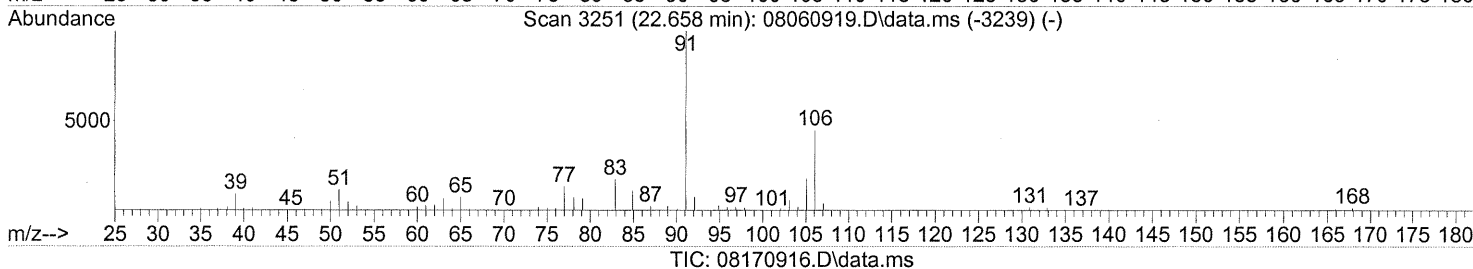
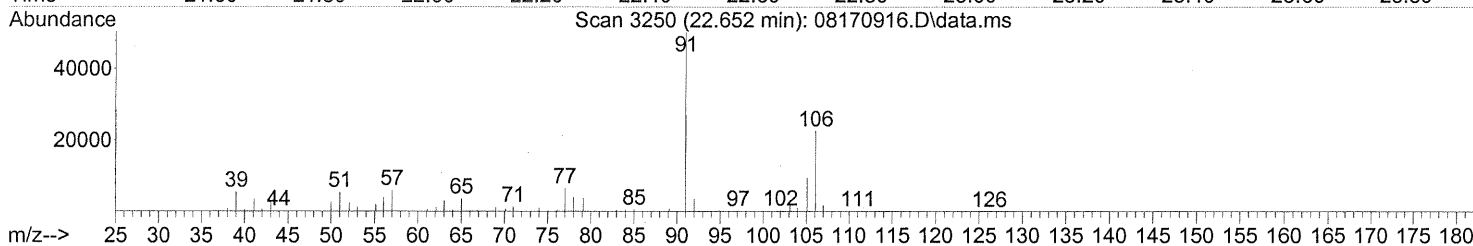
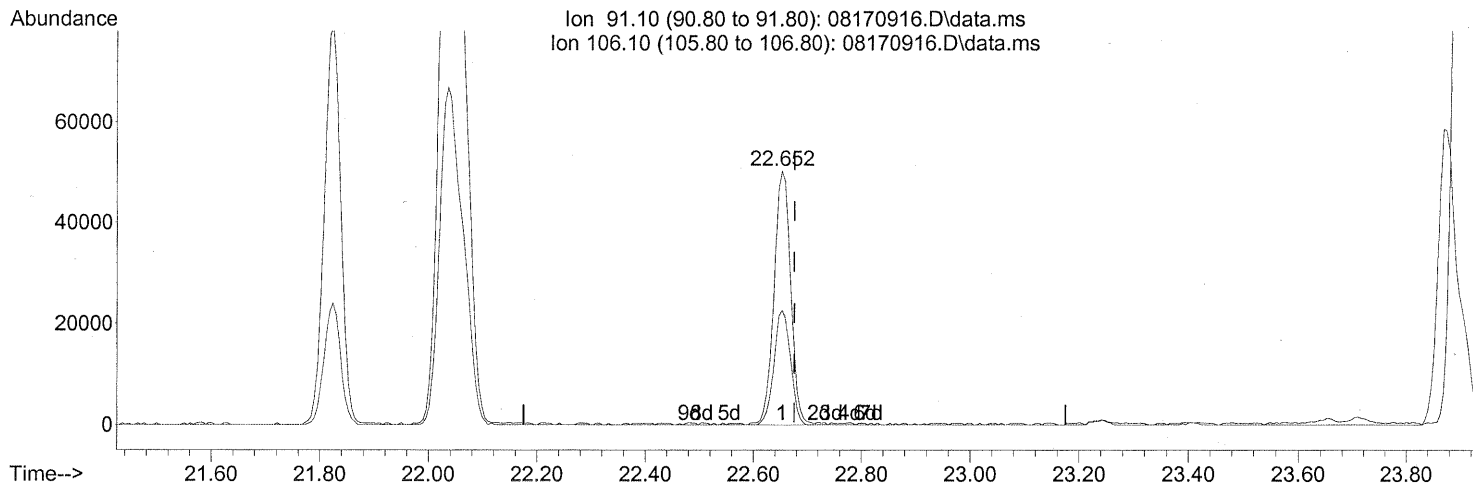
(69) Styrene (T)
 22.509min (-0.017) 2.62ng
 response 68655

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	47.98
103.00	46.20	48.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 2.97ng

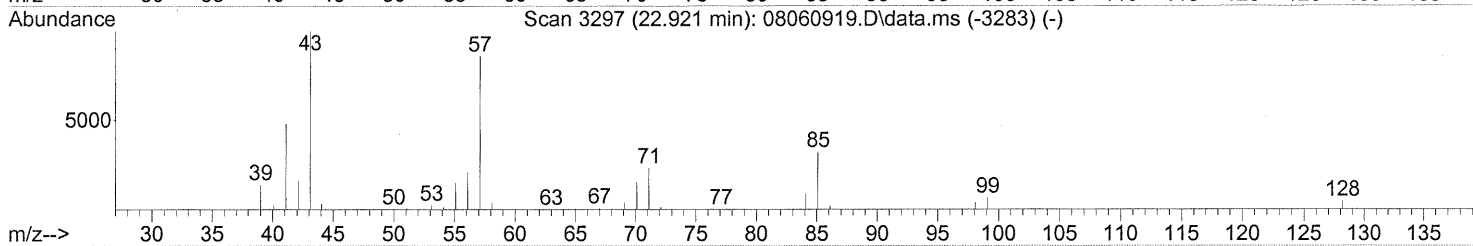
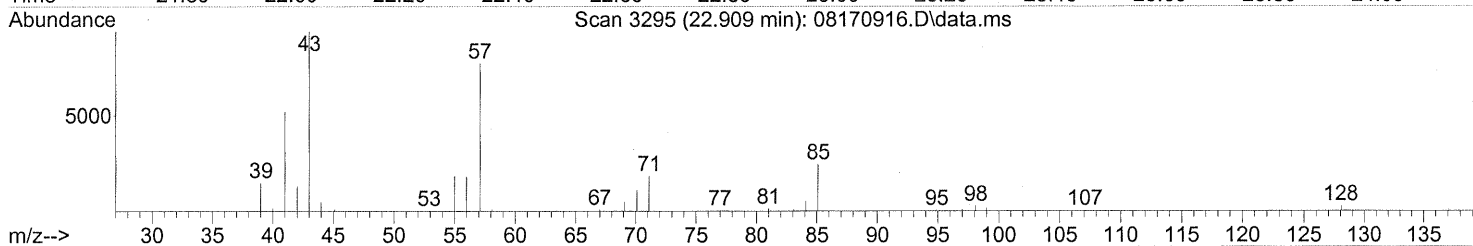
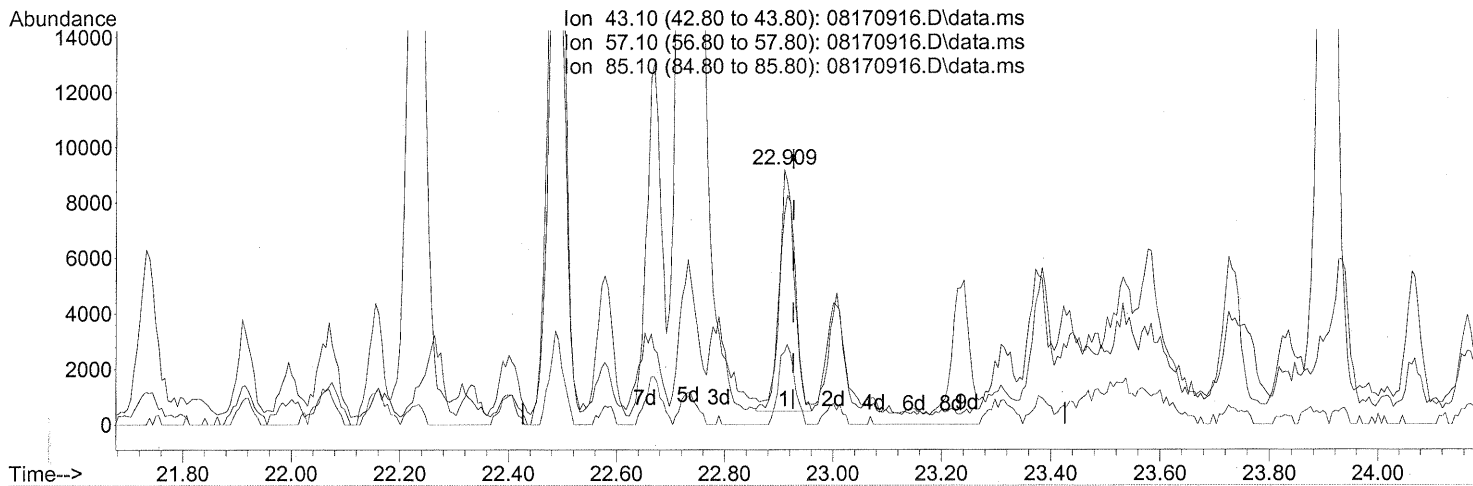
response 108114

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	44.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



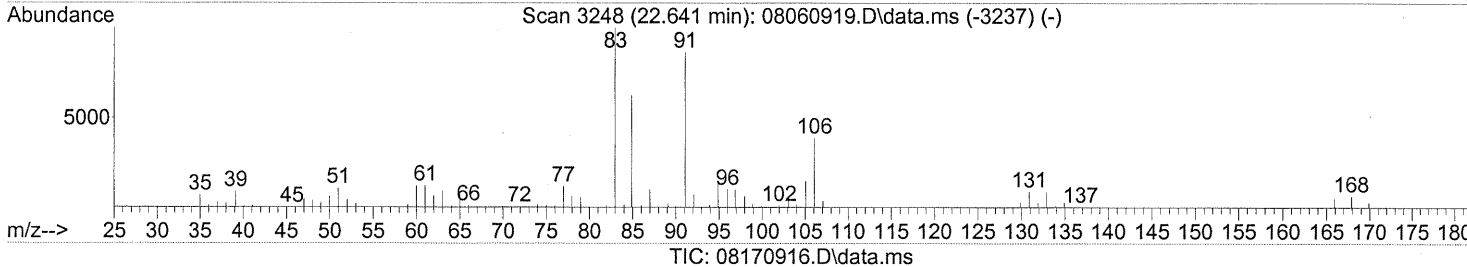
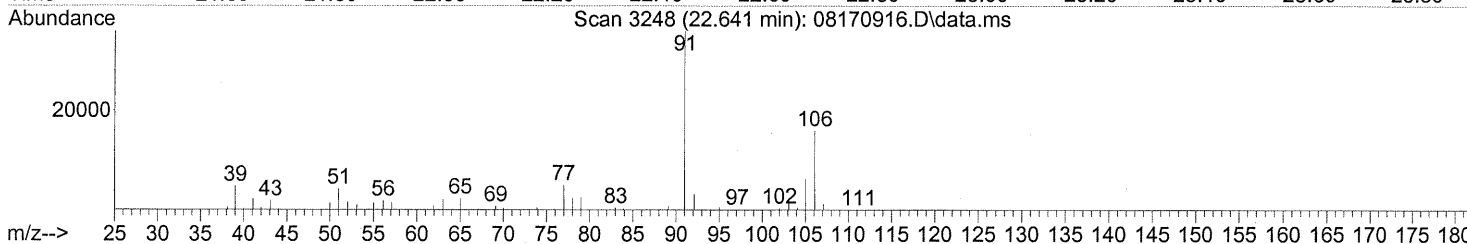
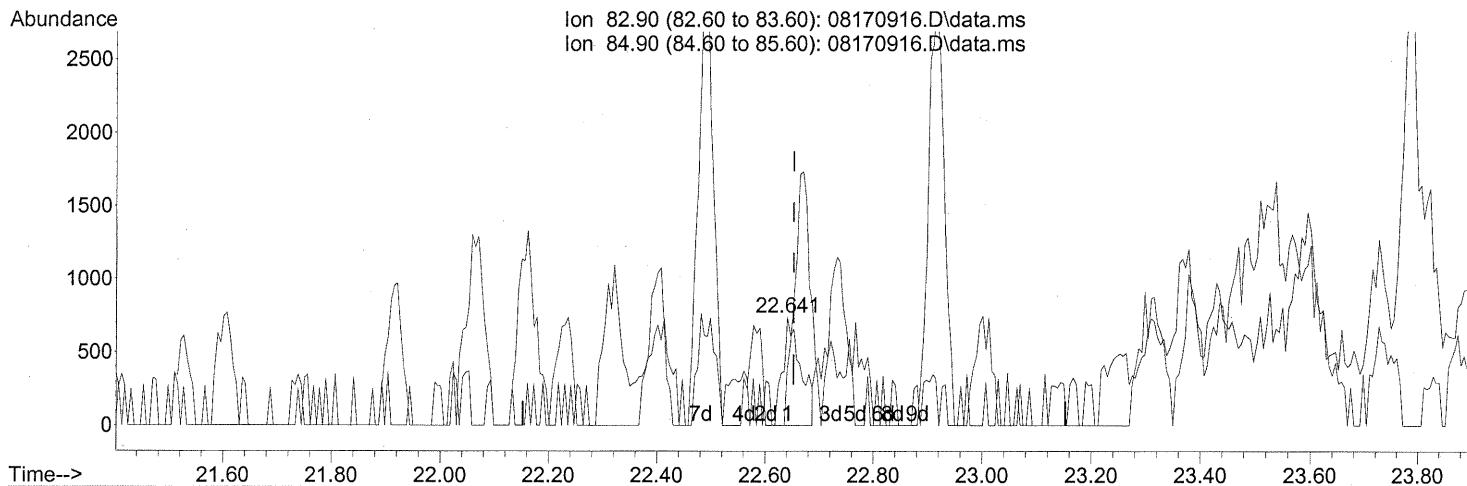
(71) n-Nonane (T)
 22.909min (-0.017) 0.73ng
 response 17549

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	82.00
85.10	30.40	33.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(72) 1,1,2,2-Tetrachloroethane (T)

22.641min (-0.011) 0.11ng

response 1730

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

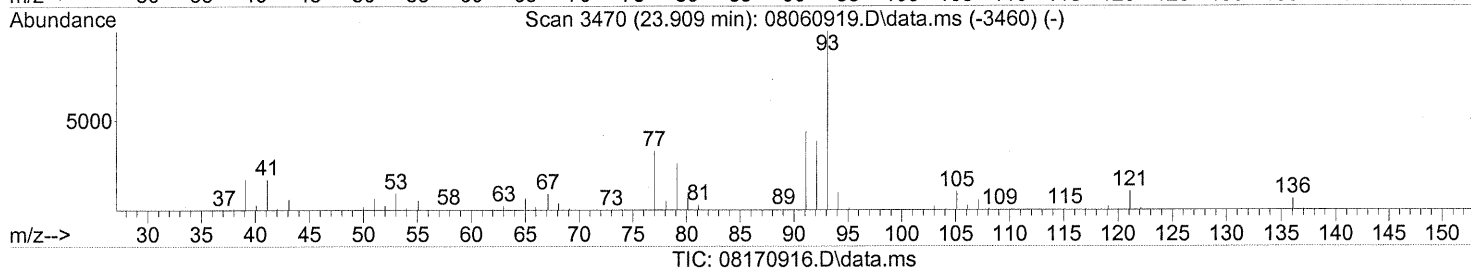
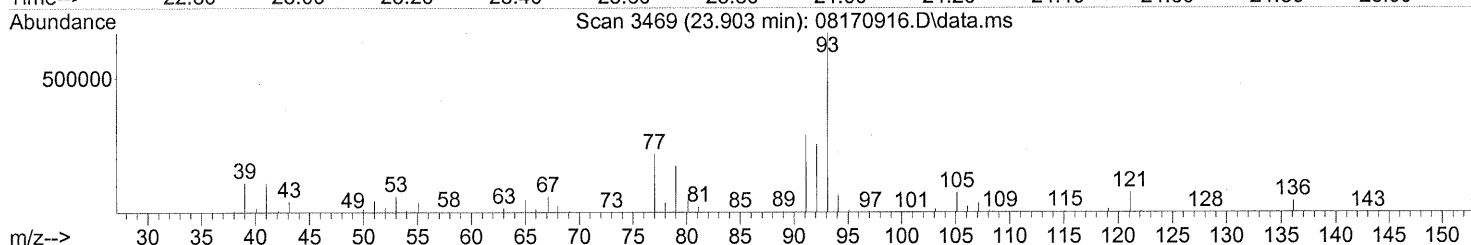
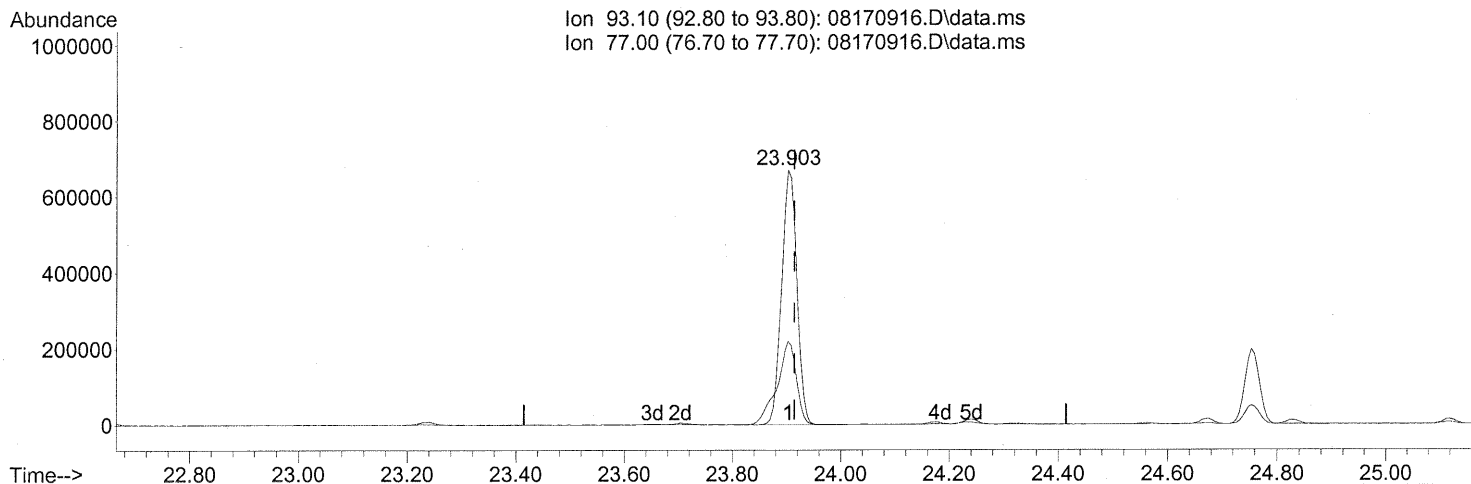
FP UM 8/20/09

R 8/22/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



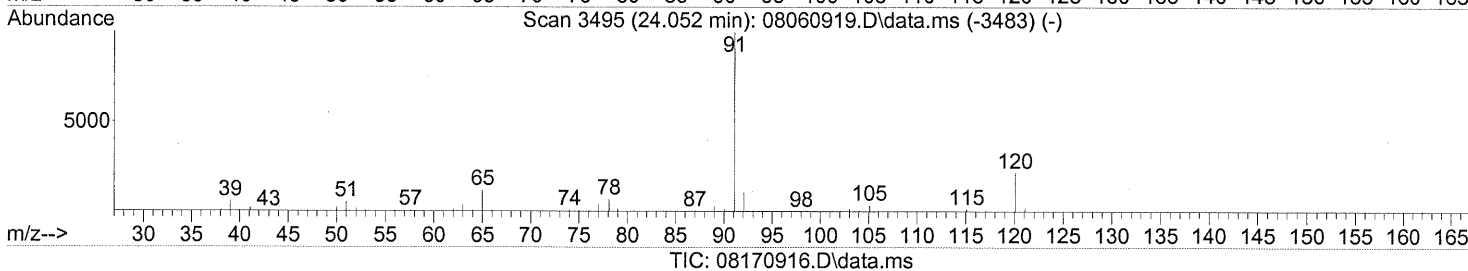
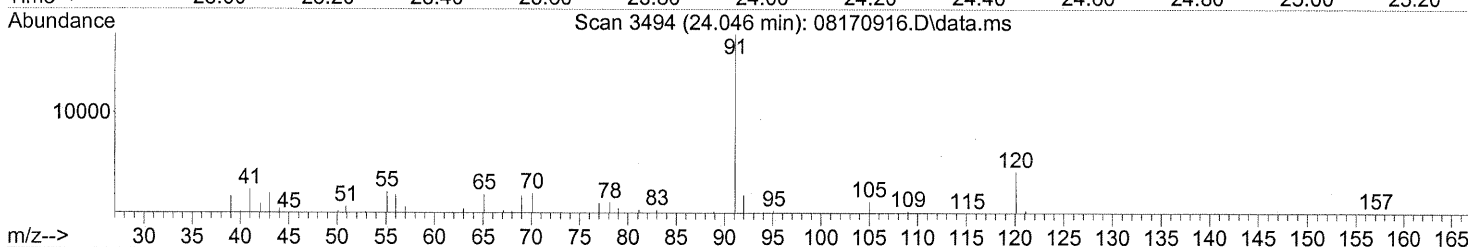
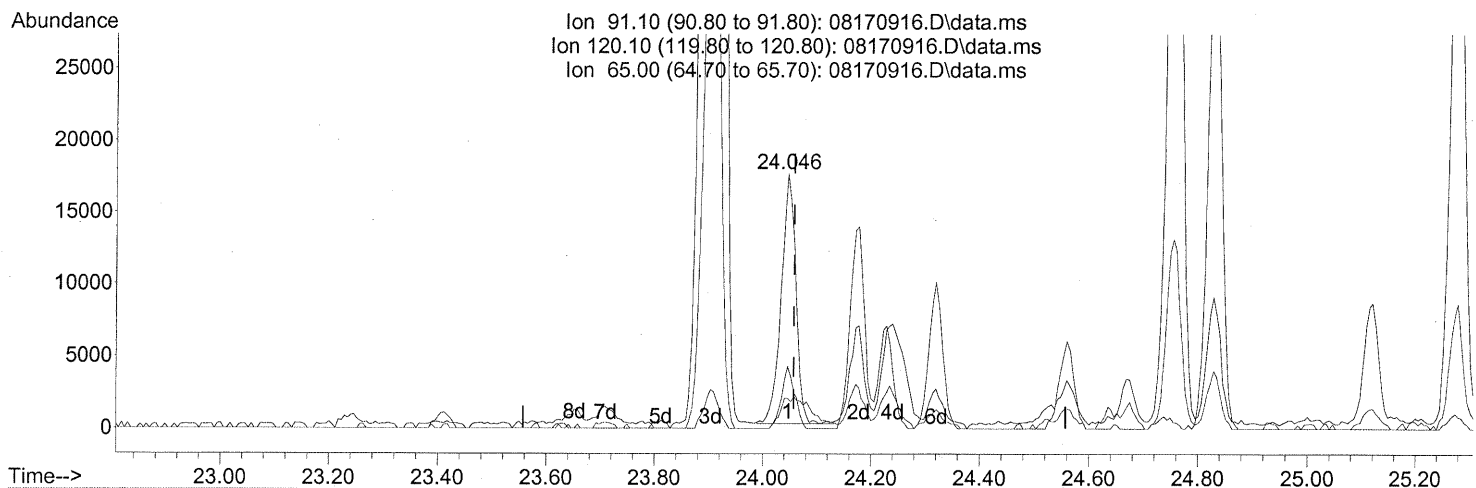
(75) alpha-Pinene (T)
 23.903min (-0.011) 55.60ng
 response 1310803

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	41.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



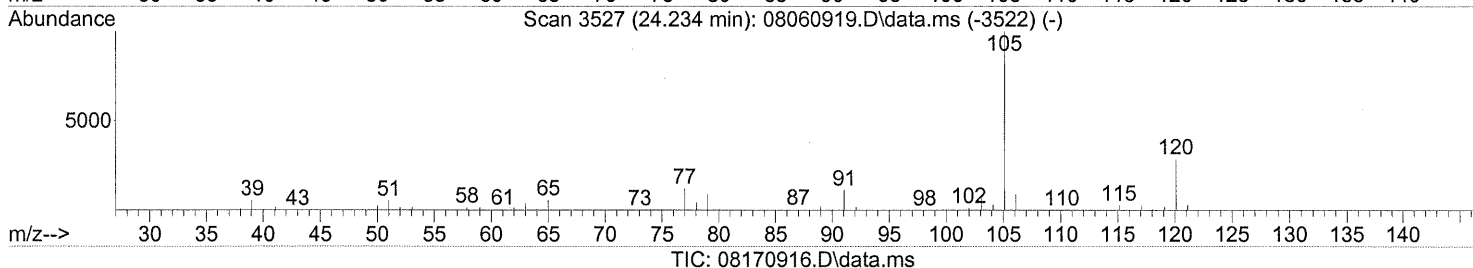
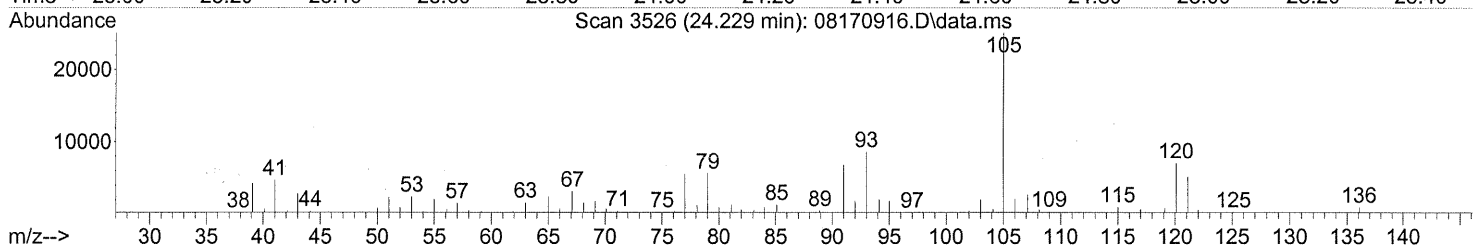
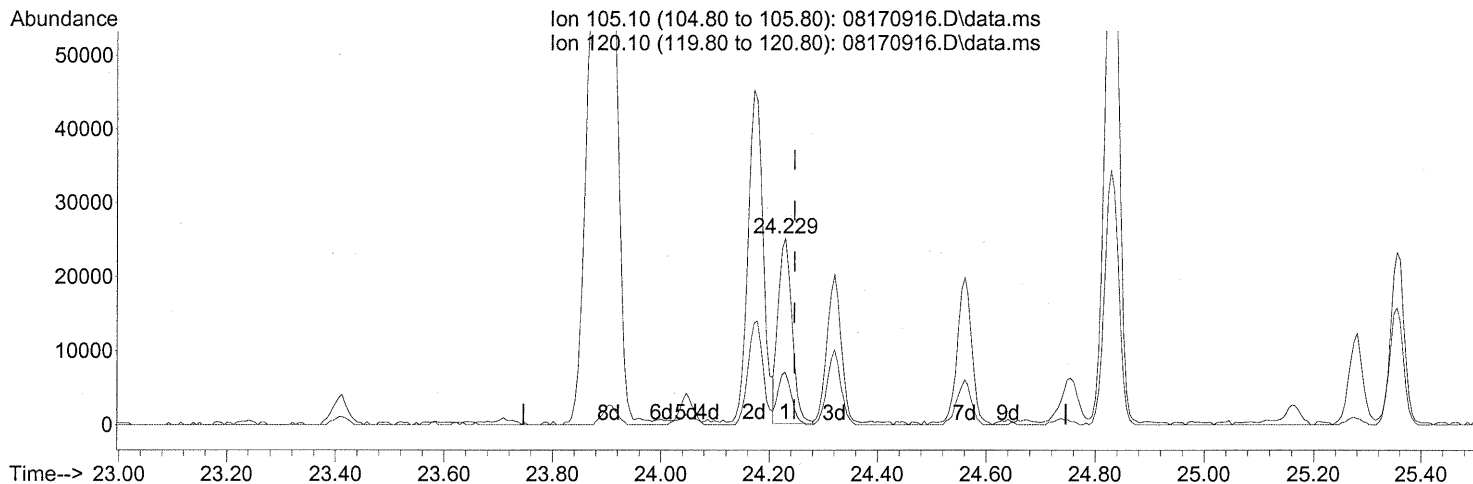
(76) n-Propylbenzene (T)
 24.046min (-0.011) 0.56ng
 response 32592

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	22.12
65.00	12.00	26.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.229min (-0.017) 1.04ng

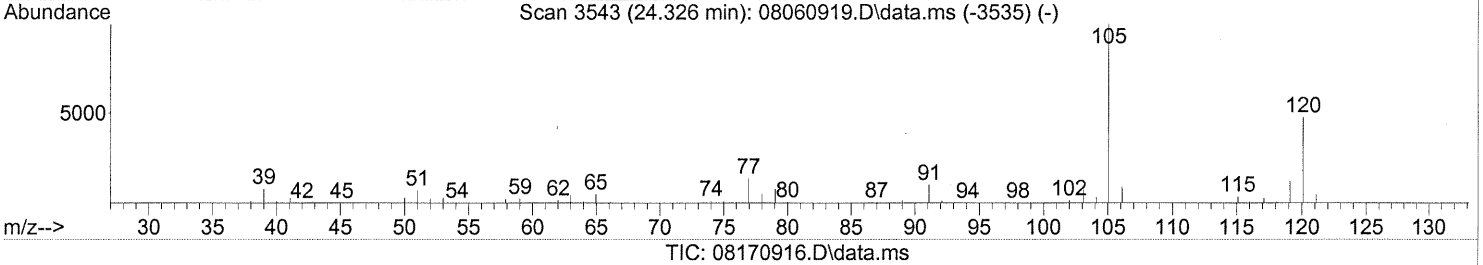
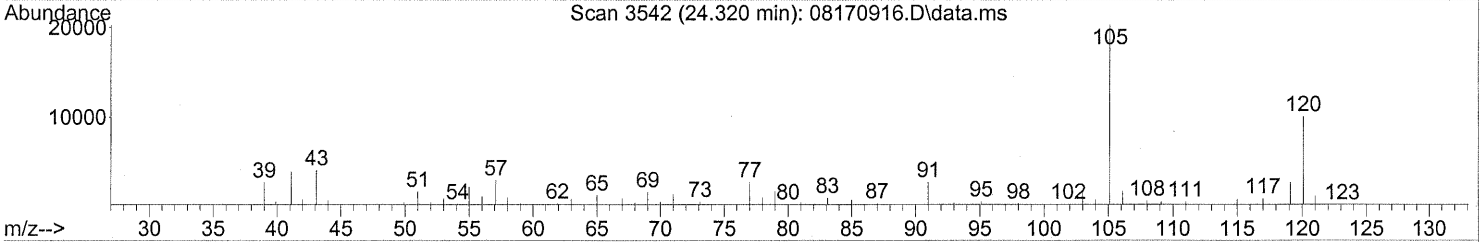
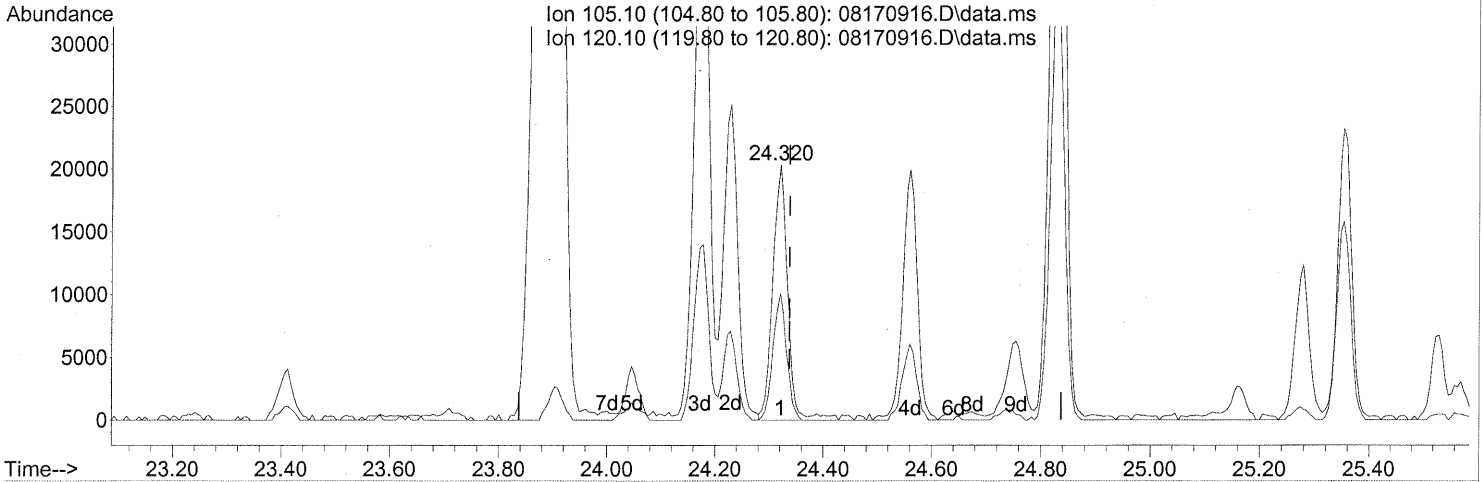
response 44478

ion	Exp%	Act%
105.10	100	100
120.10	28.40	27.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 1.08ng

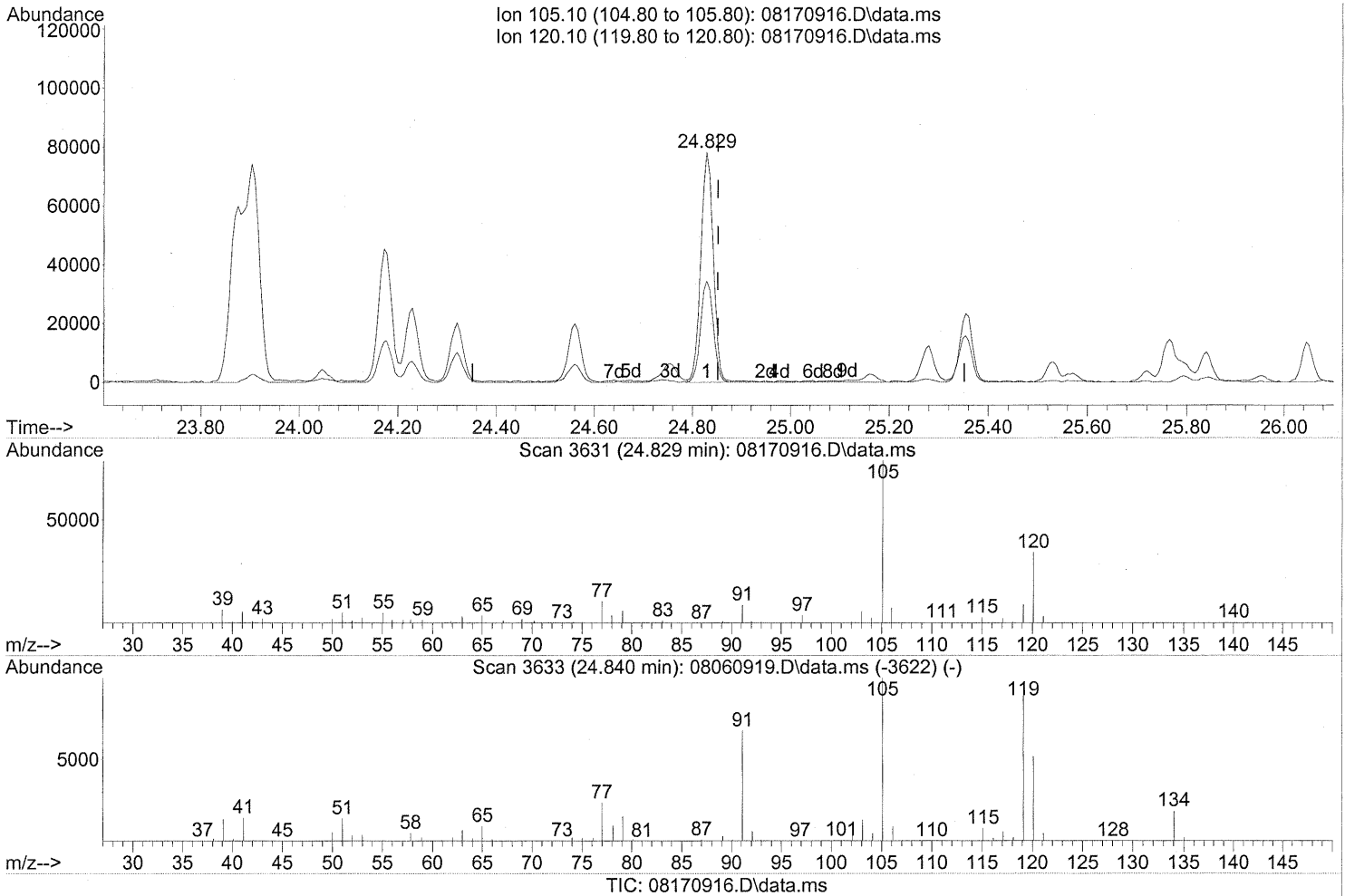
response 38690

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	45.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.829min (-0.023) 3.79ng

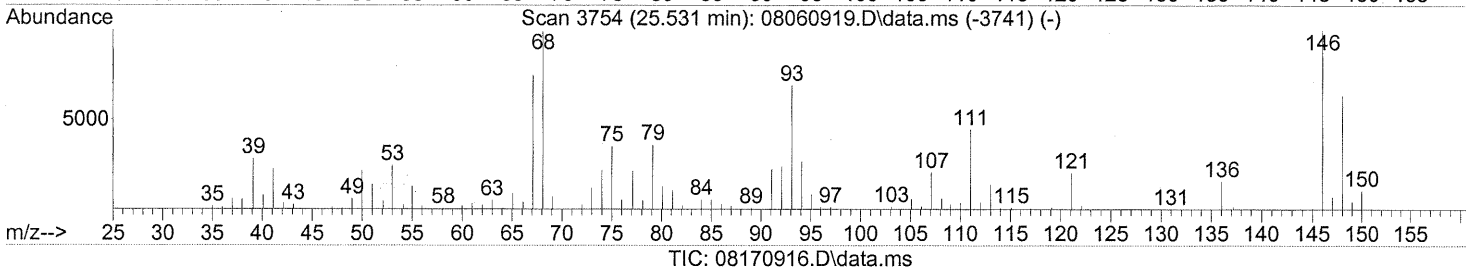
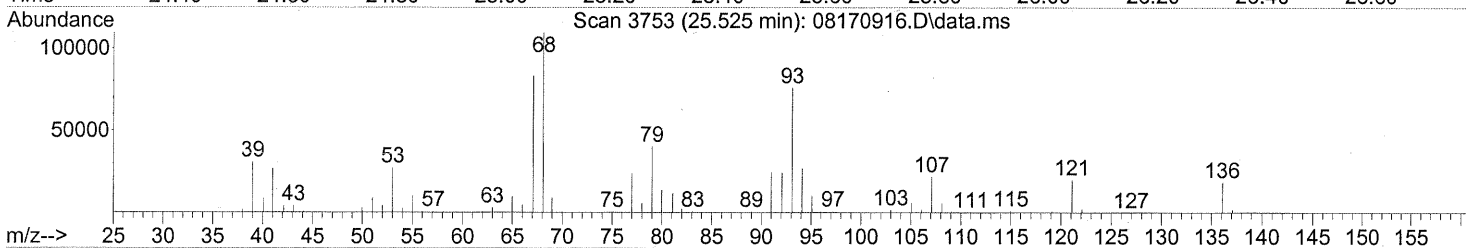
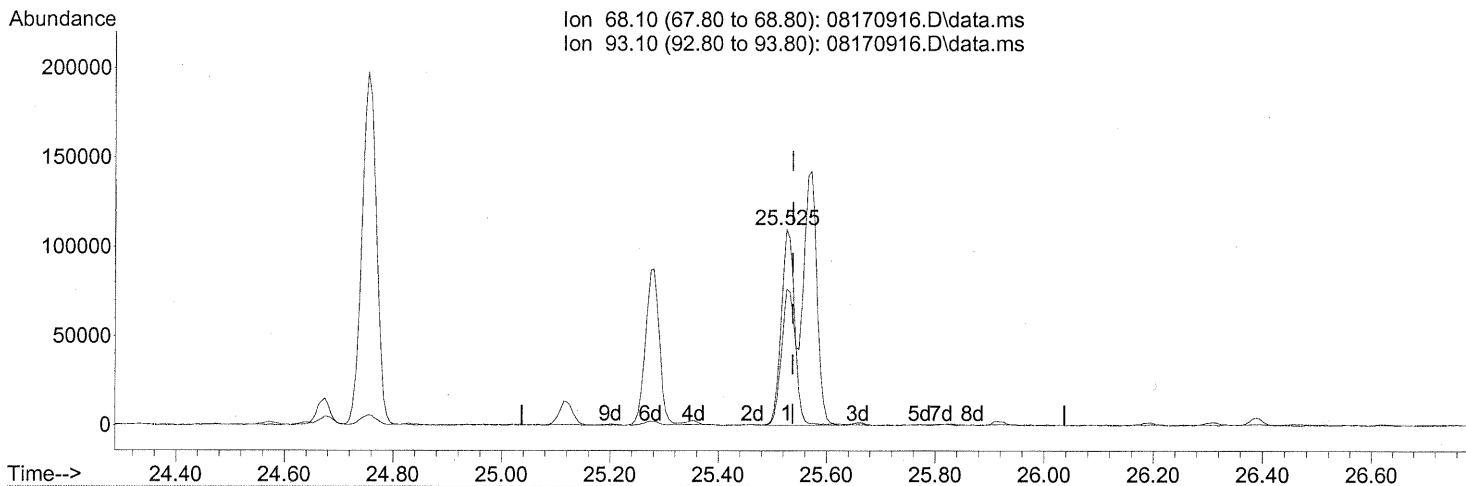
response 138696

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170916.D
 Acq On : 17 Aug 2009 15:55
 Operator : WA
 Sample : P0902721-011 (1000mL)
 Misc : Env. Health & Engineering 99956
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



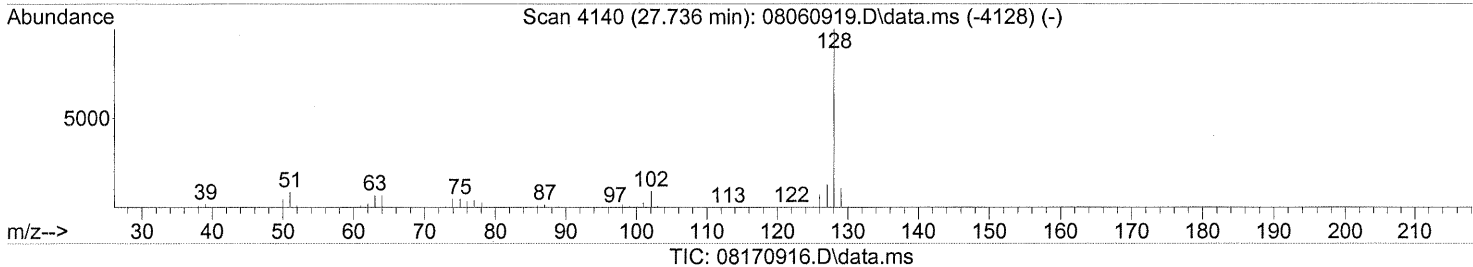
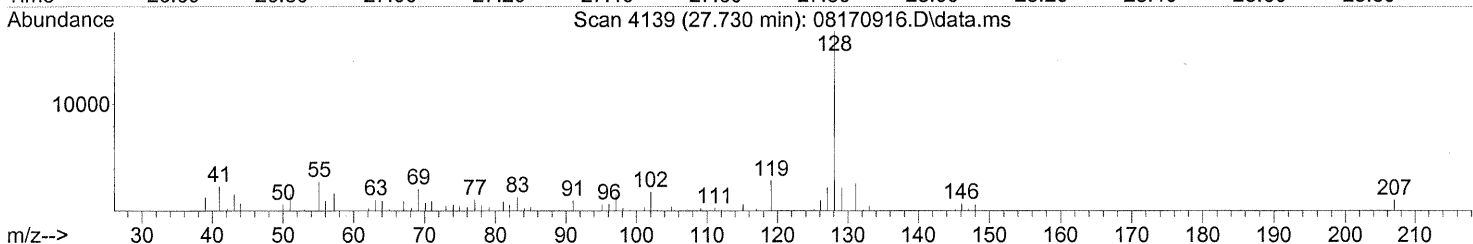
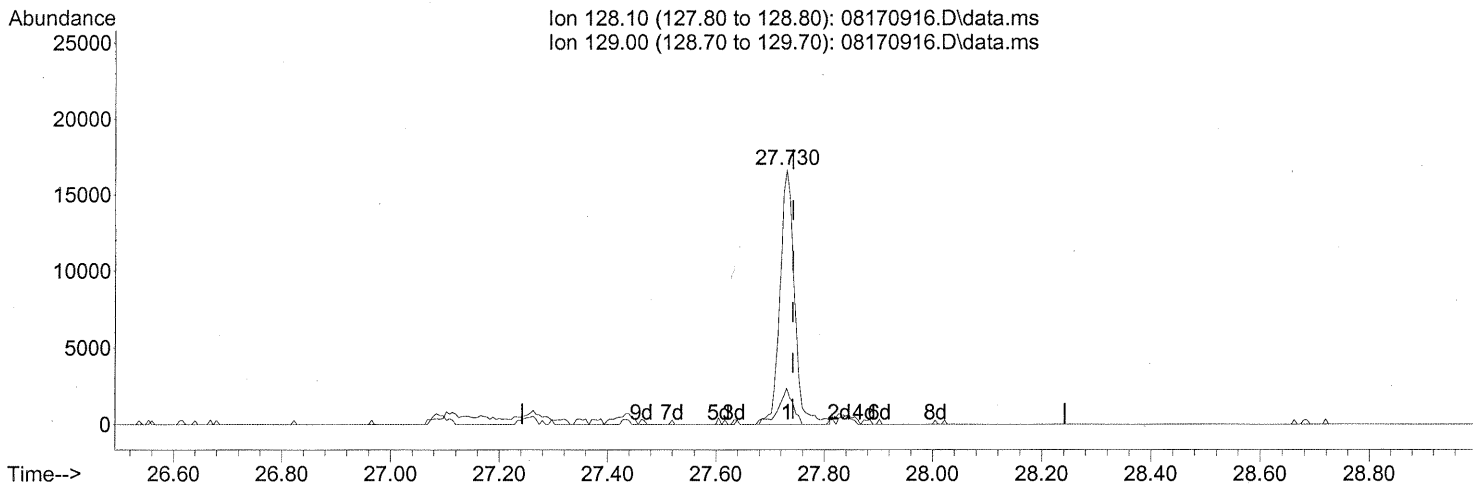
(91) d-Limonene (T)
 25.525min (-0.011) 12.13ng
 response 188998

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	74.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170916.D
Acq On : 17 Aug 2009 15:55
Operator : WA
Sample : P0902721-011 (1000mL)
Misc : Env. Health & Engineering 99956
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 17 17:29:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(95) Naphthalene (T)
27.730min (-0.011) 0.63ng
response 31235

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	14.22
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99957

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-012

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: AC01164

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/17/09

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

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: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99957
Client Project ID: 16512

CAS Project ID: P0902721
CAS Sample ID: P0902721-012

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: AC01164

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result		Result		Data Qualifier
		$\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	ppbV	MRL ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

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: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99957
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-012

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: AC01164

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

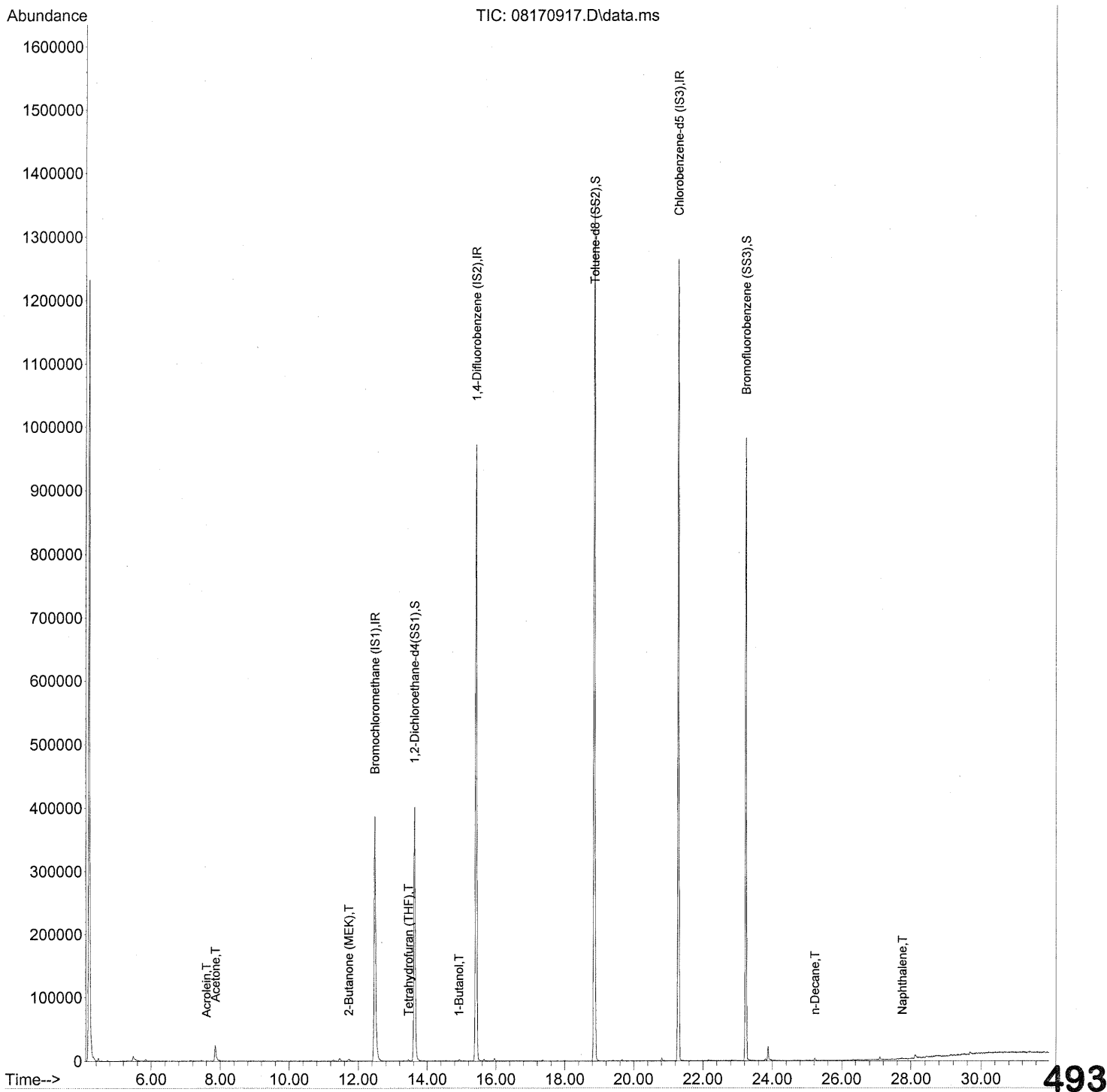
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: _____ Date: 8/24/09 **492**

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170917.D
 Acq On : 17 Aug 2009 16:37
 Operator : WA
 Sample : P0902721-012 (1000mL)
 Misc : Env. Health & Engineering 99957
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 10:11:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170917.D
 Acq On : 17 Aug 2009 16:37
 Operator : WA
 Sample : P0902721-012 (1000mL)
 Misc : Env. Health & Engineering 99957 ✓
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Quant Time: Aug 20 10:11:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	216614	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1104958	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	523479	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	436998	23.211	ng	-0.03
Spiked Amount	25.000			Recovery =	92.84%	✓
57) Toluene-d8 (SS2)	18.85	98	1192169	26.064	ng	-0.02
Spiked Amount	25.000			Recovery =	104.24%	✓
73) Bromofluorobenzene (SS3)	23.23	174	313598	25.998	ng	-0.01
Spiked Amount	25.000			Recovery =	104.00%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.74	42	311	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	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	7.22	45	207	N.D.		
11) Acetonitrile	7.43	41	901	N.D.		
12) Acrolein	7.59	56	422	0.059 ng	#	4
13) Acetone	7.86	58	17676	1.988 ng	#	80
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.40	45	91	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.35	59	93	N.D.		
19) Methylene Chloride	0.00	84	0	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.65	76	1028	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 (MEK)	11.72	72	1396	0.174 ng	#	58
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170917.D
 Acq On : 17 Aug 2009 16:37
 Operator : WA
 Sample : P0902721-012 (1000mL)
 Misc : Env. Health & Engineering 99957
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Quant Time: Aug 20 10:11:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	13.46	72	547	0.064 ng	#	47
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	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	2331	0.163 ng	#	33
41) Benzene	14.87	78	588	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	484	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) 2,2,4-Trimethylpentane...	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	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	700	N.D.		
59) 2-Hexanone	19.39	43	1478	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.04	91	86	N.D.		
67) m- & p-Xylenes	22.04	91	86	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	22.91	43	88	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.23	105	417	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.11	105	91	N.D.		
78) 4-Ethyltoluene	24.11	105	91	N.D.		
79) 1,3,5-Trimethylbenzene	24.11	105	91	N.D.		

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170917.D
 Acq On : 17 Aug 2009 16:37
 Operator : WA
 Sample : P0902721-012 (1000mL)
 Misc : Env. Health & Engineering 99957
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 10:11:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

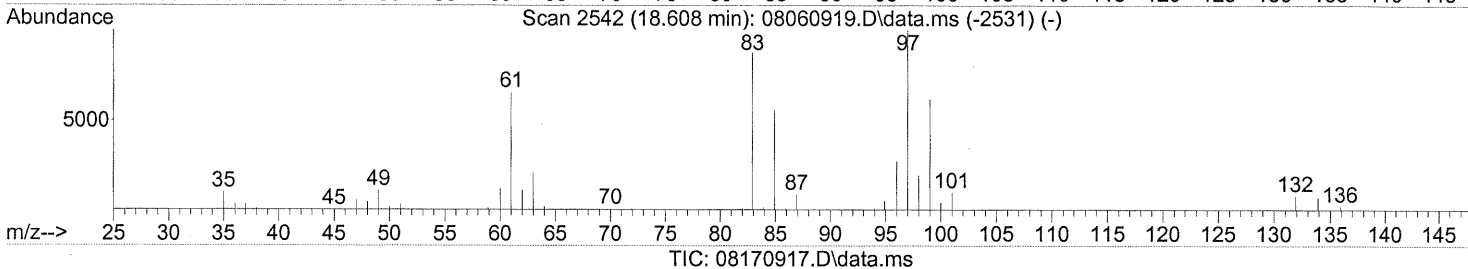
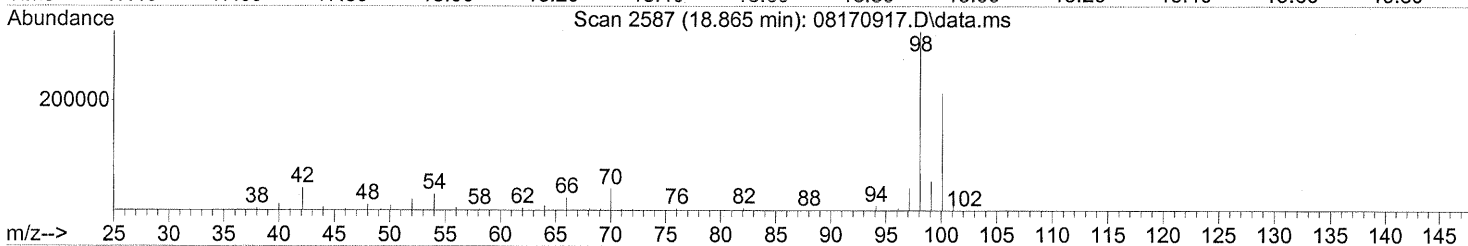
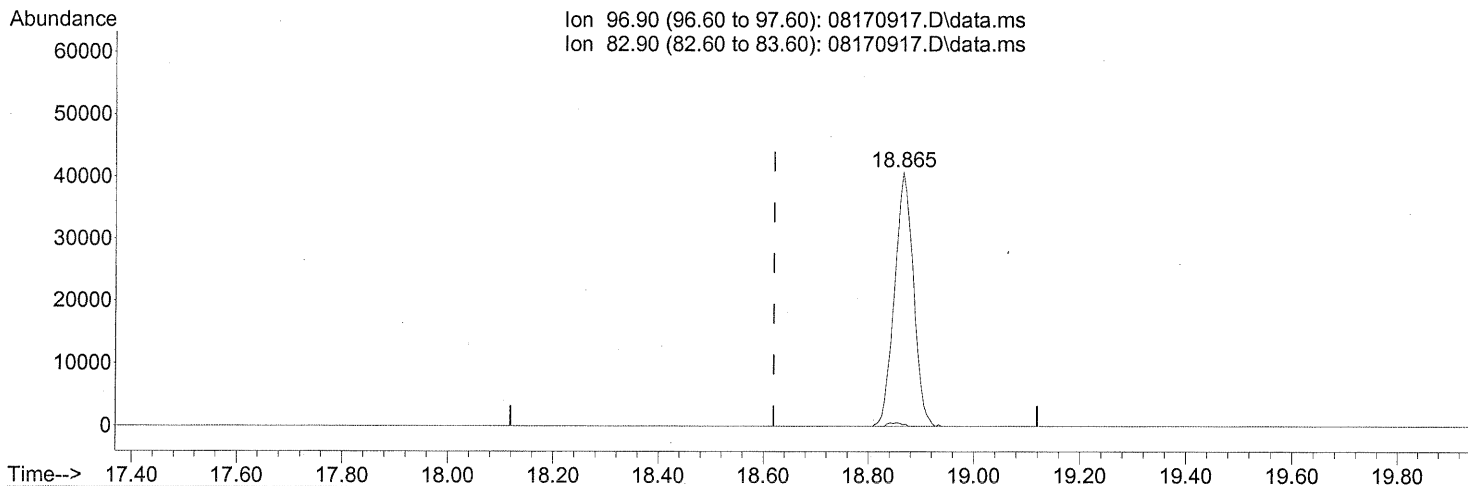
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.83	105	190	N.D.		
82) 1,2,4-Trimethylbenzene	24.83	105	190	N.D.		
83) n-Decane	25.22	57	3205	0.118	ng	# 42
84) Benzyl Chloride	25.01	91	387	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	24.83	105	190	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	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	26.48	57	107	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.74	128	3077	0.054	ng	# 71
96) n-Dodecane	27.69	57	444	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170917.D
 Acq On : 17 Aug 2009 16:37
 Operator : WA
 Sample : P0902721-012 (1000mL)
 Misc : Env. Health & Engineering 99957
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 17 17:29:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.50ng

response 101303

FP UH 8/20/09

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

— 8/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100202
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-013

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: AC01545

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17 - 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	2.1	0.74	1.2	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.74	0.60	0.15	
74-87-3	Chloromethane	1.0	0.15	0.49	0.072	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.74	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.067	
74-83-9	Bromomethane	0.38	0.15	0.098	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	Ethanol	70	7.4	37	3.9	
75-05-8	Acetonitrile	260	0.74	160	0.44	E
107-02-8	Acrolein	9.2	0.74	4.0	0.32	
67-64-1	Acetone	140	7.4	57	3.1	
75-69-4	Trichlorofluoromethane	1.5	0.15	0.27	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.7	0.74	2.3	0.30	
107-13-1	Acrylonitrile	ND	0.74	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	2.0	0.74	0.57	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.047	
76-13-1	Trichlorotrifluoroethane	0.78	0.15	0.10	0.019	
75-15-0	Carbon Disulfide	3.4	0.74	1.1	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	ND	7.4	ND	2.1	
78-93-3	2-Butanone (MEK)	9.1	0.74	3.1	0.25	

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.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100202

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-013

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: AC01545

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/17 - 8/18/09

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	ND	0.74	ND	0.21	
110-54-3	n-Hexane	7.6	0.74	2.2	0.21	
67-66-3	Chloroform	0.30	0.15	0.062	0.030	
109-99-9	Tetrahydrofuran (THF)	1.3	0.74	0.44	0.25	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	5.8	0.15	1.8	0.046	
56-23-5	Carbon Tetrachloride	0.67	0.15	0.11	0.024	
110-82-7	Cyclohexane	1.4	0.74	0.40	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.74	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.74	ND	0.18	
142-82-5	n-Heptane	5.9	0.74	1.4	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	ND	0.16	
108-10-1	4-Methyl-2-pentanone	2.0	0.74	0.48	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	55	0.74	15	0.20	
591-78-6	2-Hexanone	1.9	0.74	0.46	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	0.74	ND	0.16	

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: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100202
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-013

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: AC01545

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17 - 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	2.7	0.74	0.59	0.16	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	9.4	0.74	2.2	0.17	
179601-23-1	m,p-Xylenes	30	0.74	6.8	0.17	
75-25-2	Bromoform	ND	0.74	ND	0.072	
100-42-5	Styrene	4.6	0.74	1.1	0.17	
95-47-6	o-Xylene	13	0.74	3.0	0.17	
111-84-2	n-Nonane	8.3	0.74	1.6	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	0.99	0.74	0.20	0.15	
80-56-8	alpha-Pinene	240	0.74	44	0.13	D
103-65-1	n-Propylbenzene	3.4	0.74	0.69	0.15	
622-96-8	4-Ethyltoluene	5.7	0.74	1.2	0.15	
108-67-8	1,3,5-Trimethylbenzene	5.4	0.74	1.1	0.15	
95-63-6	1,2,4-Trimethylbenzene	20	0.74	4.0	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.029	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	44	0.74	8.0	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.74	ND	0.077	
120-82-1	1,2,4-Trichlorobenzene	ND	0.74	ND	0.10	
91-20-3	Naphthalene	1.8	0.74	0.34	0.14	
87-68-3	Hexachlorobutadiene	ND	0.74	ND	0.069	

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

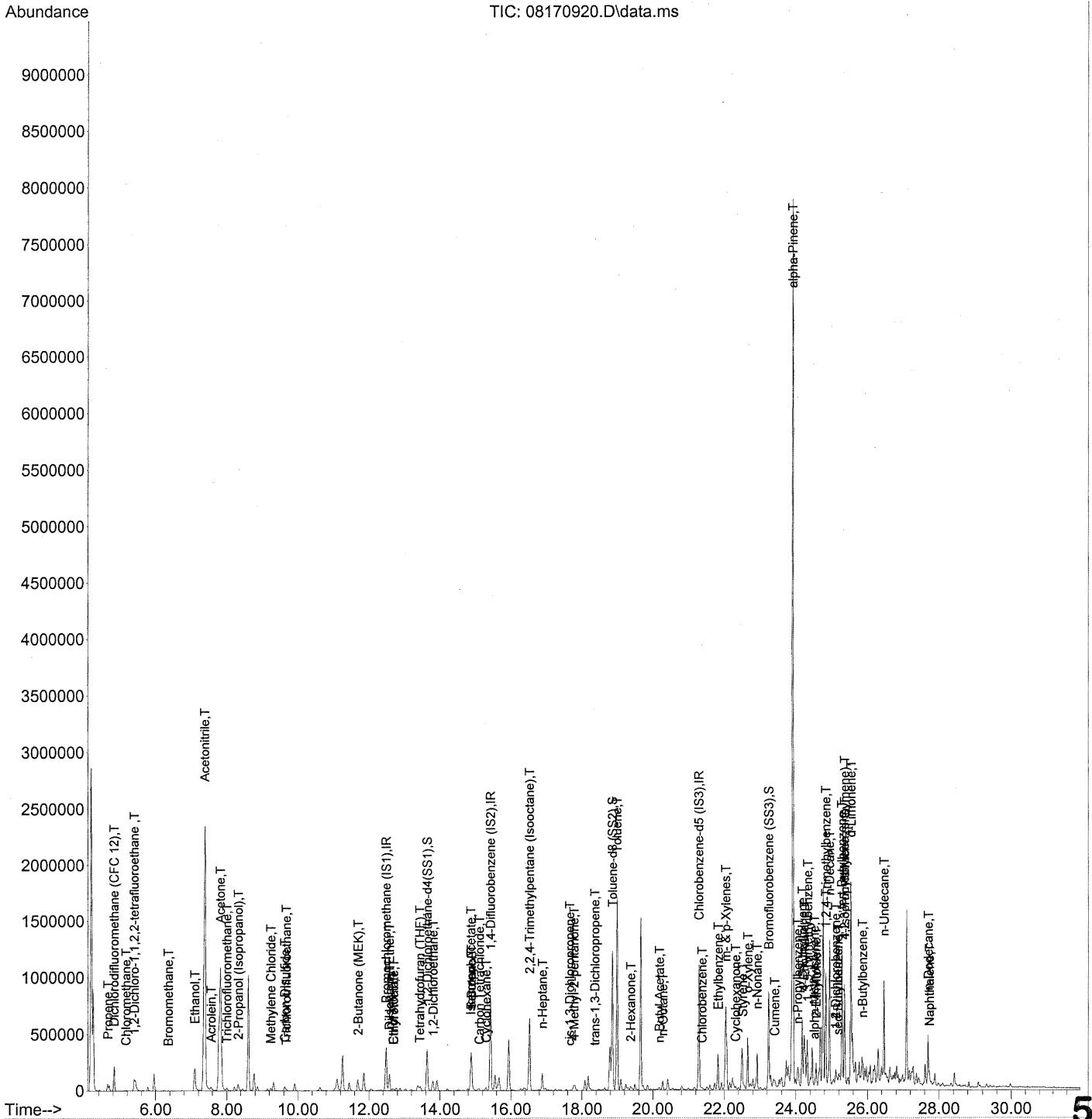
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

Verified By: _____ Date: 8/24/08 **500**

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 11:04:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202 ✓
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 11:04:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	188836	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	952288	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	458294	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	376222	22.922	ng	-0.03
Spiked Amount	25.000			Recovery =	91.68%	✓
57) Toluene-d8 (SS2)	18.85	98	1042591	26.036	ng	-0.01
Spiked Amount	25.000			Recovery =	104.16%	✓
73) Bromofluorobenzene (SS3)	23.24	174	276629	26.195	ng	0.00
Spiked Amount	25.000			Recovery =	104.80%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.65	42	18740m	1.446	ng	
3) Dichlorodifluoromethan...	4.82	85	42458	2.005	ng	98
4) Chloromethane	5.16	50	9764	0.686	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	602	0.070	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	91	N.D.		
8) Bromomethane	6.35	94	2130	0.256	ng	87
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.09	45	385873	46.978	ng	99
11) Acetonitrile	7.38	41	4265381	177.316	ng	E 100
12) Acrolein	7.56	56	38804	6.206	ng	97
13) Acetone	7.82	58	714098	92.140	ng	89
14) Trichlorofluoromethane	8.00	101	19512	1.019	ng	100
15) 2-Propanol (Isopropanol)	8.33	45	117819	3.868	ng	100
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.38	59	220	N.D.		
19) Methylene Chloride	9.24	84	13996	1.345	ng	97
20) 3-Chloro-1-propene (Al...	9.41	41	530	N.D.		
21) Trichlorotrifluoroethane	9.67	151	3681	0.529	ng	86
22) Carbon Disulfide	9.63	76	85368	2.326	ng	97
23) trans-1,2-Dichloroethene	10.60	61	91	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.	d	
27) 2-Butanone (MEK)	11.69	72	43229	6.178	ng	97
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.57	87	853	0.091	ng	# 1
30) Ethyl Acetate	12.69	61	1477	0.405	ng	# 73
31) n-Hexane	12.58	57	95960	5.146	ng	95

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 11:04:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.69	83	3371	0.205 ng		94
34) Tetrahydrofuran (THF)	13.42	72	6612	0.886 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.80	62	1489	0.099 ng	#	54
38) 1,1,1-Trichloroethane	14.18	97	213	N.D.		
39) Isopropyl Acetate	14.87	61	1054	0.149 ng	#	1
40) 1-Butanol	14.88	56	193265	15.637 ng		80
41) Benzene	14.87	78	163647	3.909 ng		99
42) Carbon Tetrachloride	15.11	117	6010	0.450 ng		94
43) Cyclohexane	15.29	84	14362	0.937 ng		99
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	15.92	63	281	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.54	88	317	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	761004	15.431 ng		99
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.88	71	44523	3.962 ng		99
52) cis-1,3-Dichloropropene	17.65	75	1028	0.059 ng		99
53) 4-Methyl-2-pentanone	17.77	58	13487	1.340 ng		99
54) trans-1,3-Dichloropropene	18.36	75	898	0.054 ng	#	44
55) 1,1,2-Trichloroethane	18.57	97	213	N.D.		
58) Toluene	18.98	91	1459571	37.087 ng		99
59) 2-Hexanone	19.37	43	33547	1.282 ng		94
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	14407	0.467 ng		75
63) n-Octane	20.28	57	17668	1.857 ng		98
64) Tetrachloroethene	20.46	166	404	N.D.		
65) Chlorobenzene	21.37	112	1468	0.060 ng	#	43
66) Ethylbenzene	21.82	91	284307	6.320 ng		99
67) m- & p-Xylenes	22.04	91	725773	19.943 ng		98
68) Bromoform	22.15	173	188	N.D.		
69) Styrene	22.51	104	81326	3.092 ng		99
70) o-Xylene	22.65	91	324277	8.887 ng		98
71) n-Nonane	22.91	43	135636	5.594 ng		96
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. d		
74) Cumene	23.41	105	30939	0.671 ng		95
75) alpha-Pinene	23.91	93	3832440	162.211 ng	see dil	94
76) n-Propylbenzene	24.05	91	131966	2.278 ng		94
77) 3-Ethyltoluene	24.18	105	340624	7.733 ng		100
78) 4-Ethyltoluene	24.23	105	164480	3.854 ng		100
79) 1,3,5-Trimethylbenzene	24.32	105	130607	3.628 ng		9

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 11:04:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

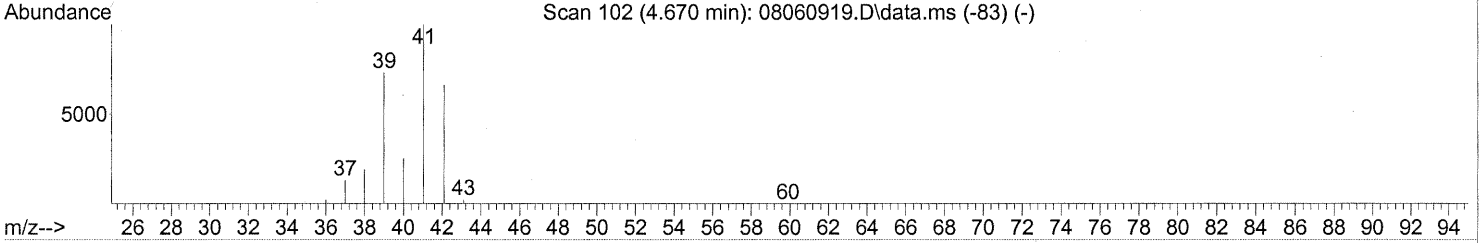
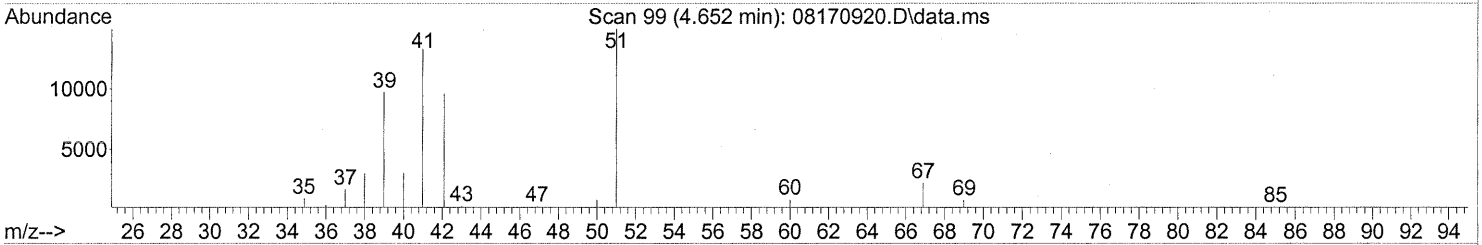
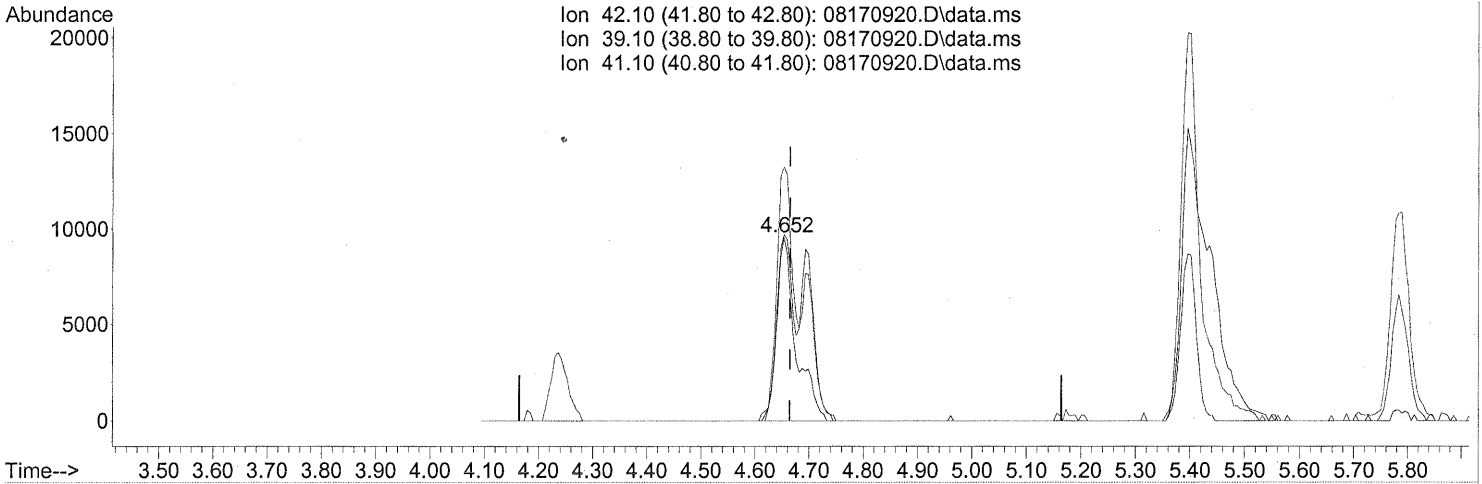
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1047	0.054	ng	# 13
81) 2-Ethyltoluene	24.56	105	141223	3.179	ng	98
82) 1,2,4-Trimethylbenzene	24.83	105	491732	13.395	ng	89
83) n-Decane	24.94	57	474119	19.864	ng	97
84) Benzyl Chloride	25.04	91	638	N.D.		
85) 1,3-Dichlorobenzene	25.02	146	87	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	1267	0.064	ng	95
87) sec-Butylbenzene	25.17	105	19369	0.391	ng	95
88) 4-Isopropyltoluene (p-...	25.35	119	251820	5.694	ng	97
89) 1,2,3-Trimethylbenzene	25.35	105	142085	3.799	ng	89
90) 1,2-Dichlorobenzene	25.10	146	1267	0.072	ng	93
91) d-Limonene	25.53	68	468199	29.992	ng	92
92) 1,2-Dibromo-3-Chloropr...	25.93	157	90	N.D.		
93) n-Undecane	26.46	57	302940	11.930	ng	93
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	59373	1.191	ng	91
96) n-Dodecane	27.70	57	142610	4.834	ng	100
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	11010	0.675	ng	# 81
99) tert-Butylbenzene	25.27	119	40641	1.144	ng	98
100) n-Butylbenzene	25.86	91	60309	1.475	ng	# 66

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.652min (-0.011) 1.79ng

SH

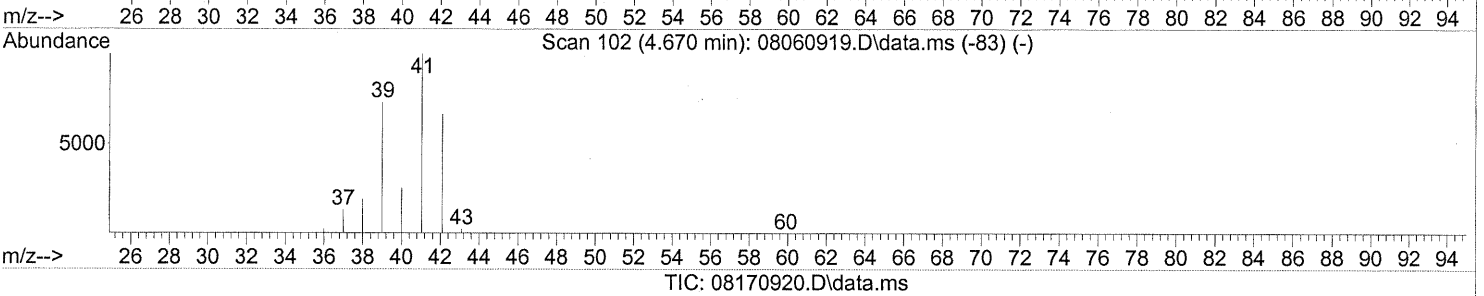
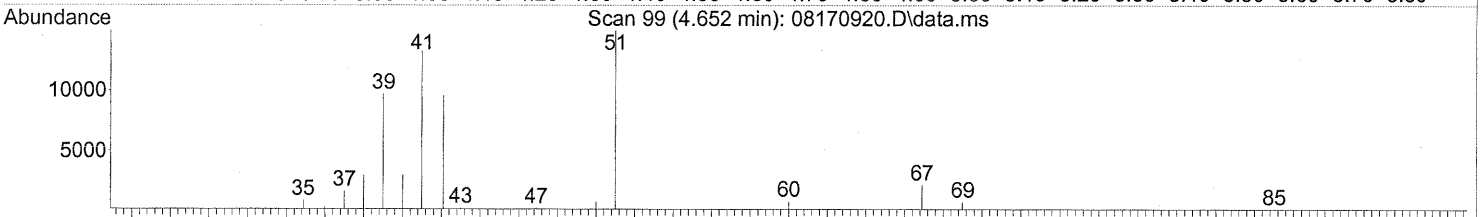
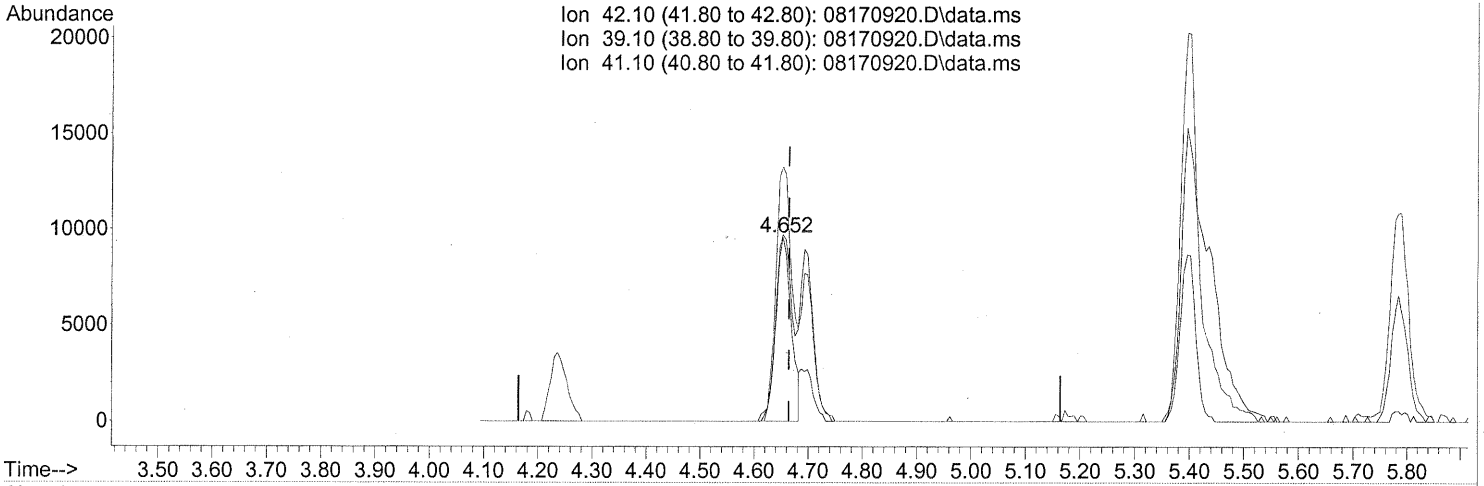
response 23256

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	86.41#
41.10	150.20	122.13#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170920.D
Acq On : 17 Aug 2009 18:41
Operator : WA
Sample : P0902721-013 (1000mL)
Misc : Env. Health & Engineering 100202
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(2) Propene (T)

4.652min (-0.011) 1.45ng m
response 18740

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	107.23
41.10	150.20	151.56
0.00	0.00	0.00

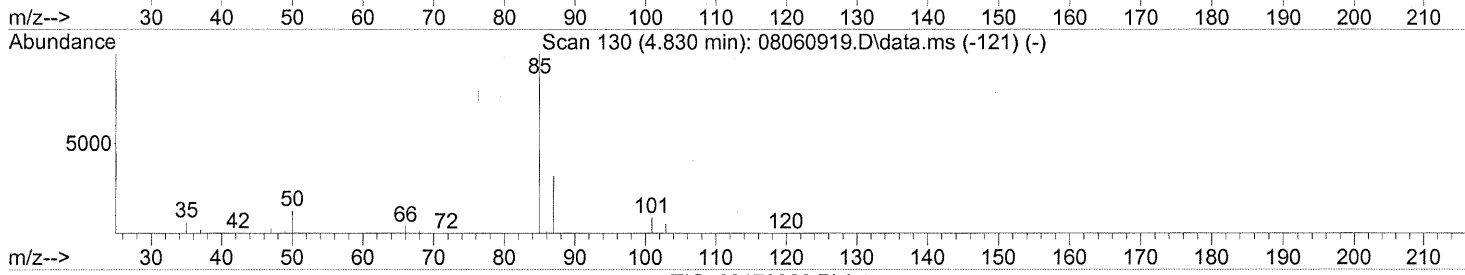
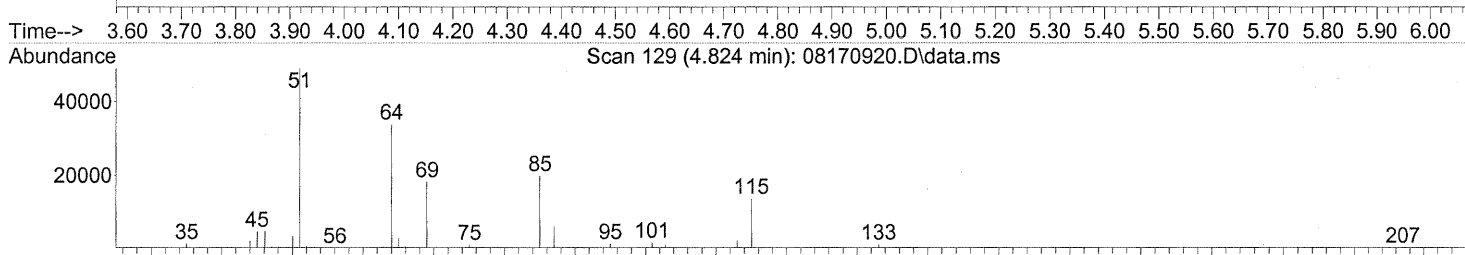
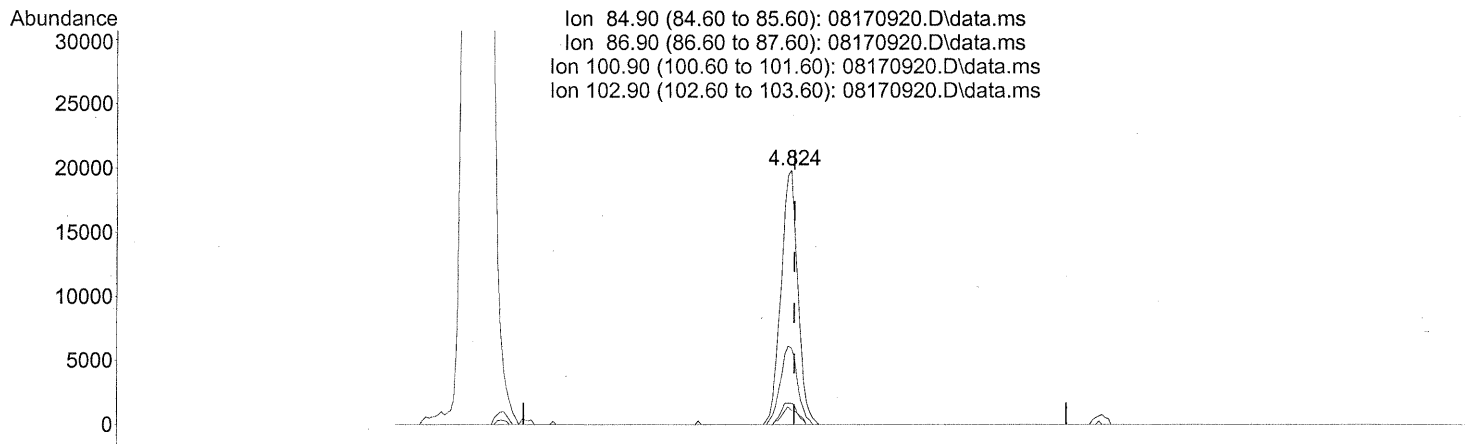
SM → IC
in 8/20/09

— R 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.824min (-0.006) 2.00ng

BEFORE SUBTRACTION

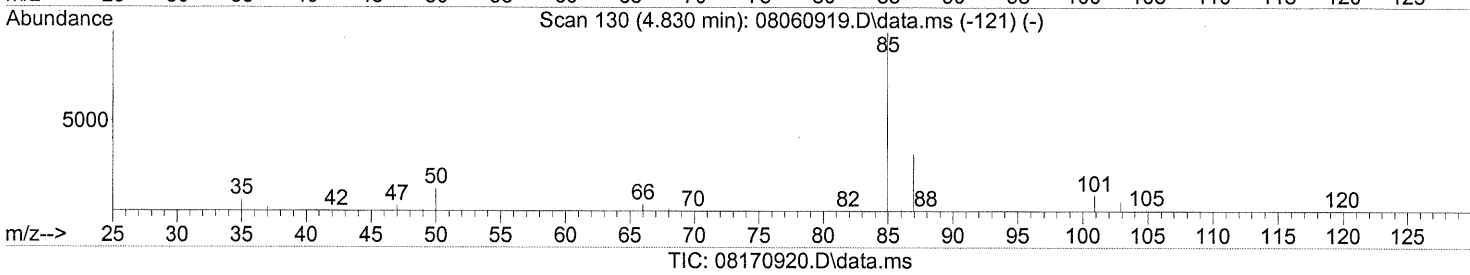
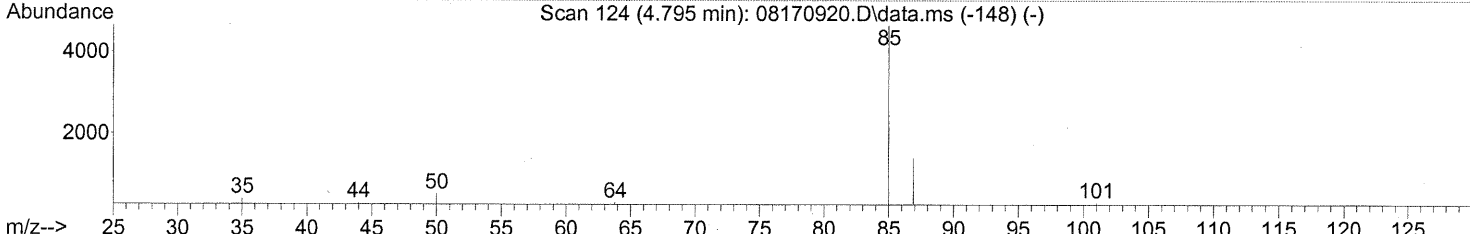
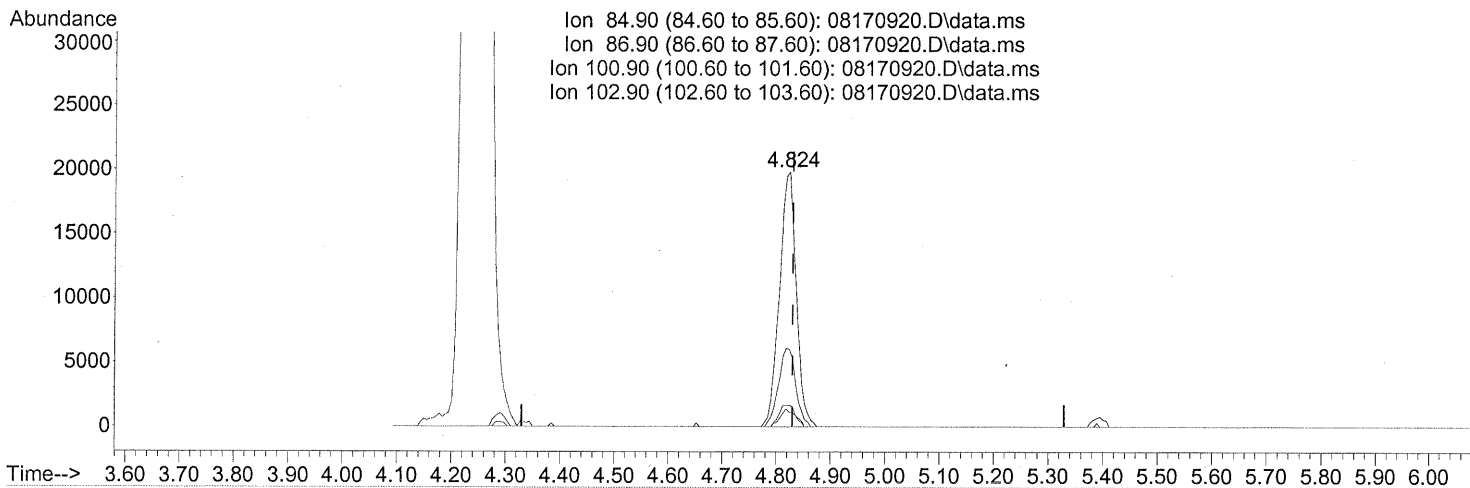
response 42458

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.69
100.90	8.80	8.48
102.90	5.20	6.14

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.824min (-0.006) 2.00ng

response 42458

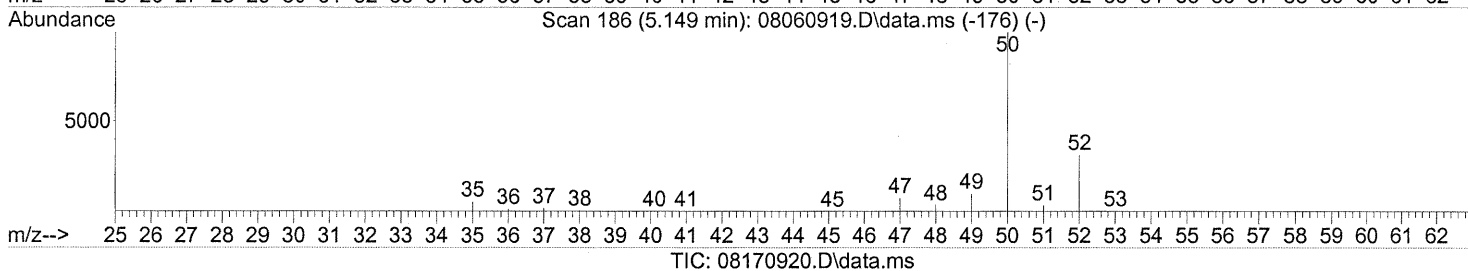
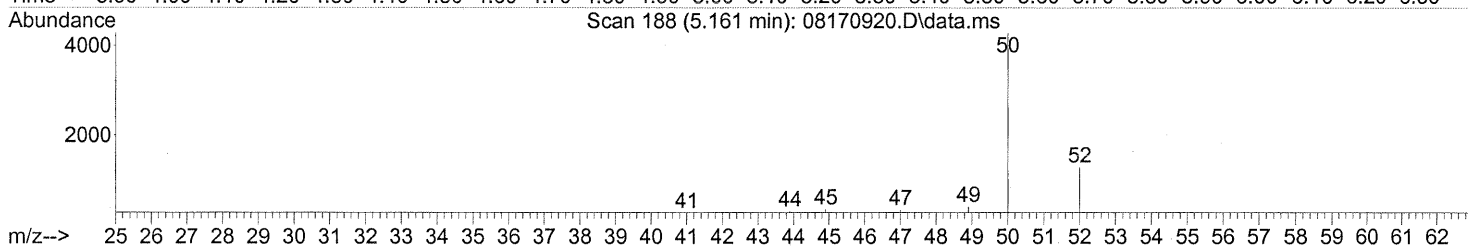
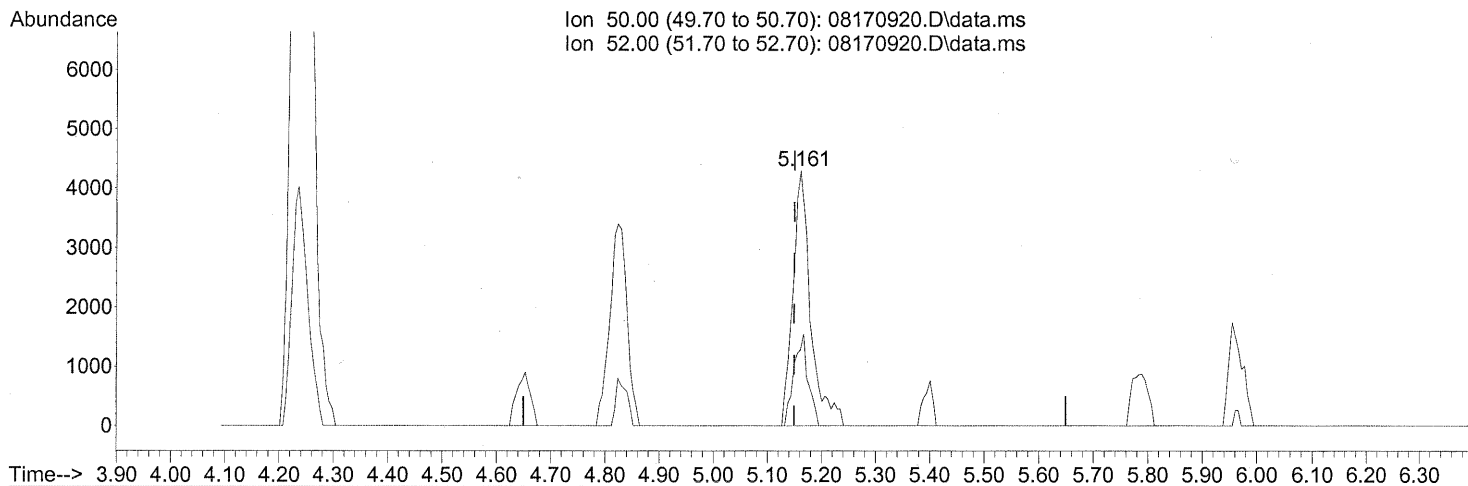
AFTER SUBTRACTION

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.69
100.90	8.80	8.48
102.90	5.20	6.14

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.161min (+0.011) 0.69ng

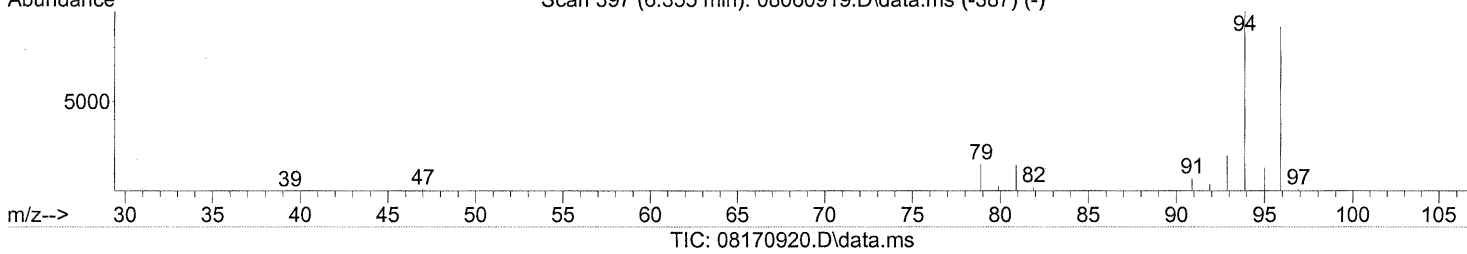
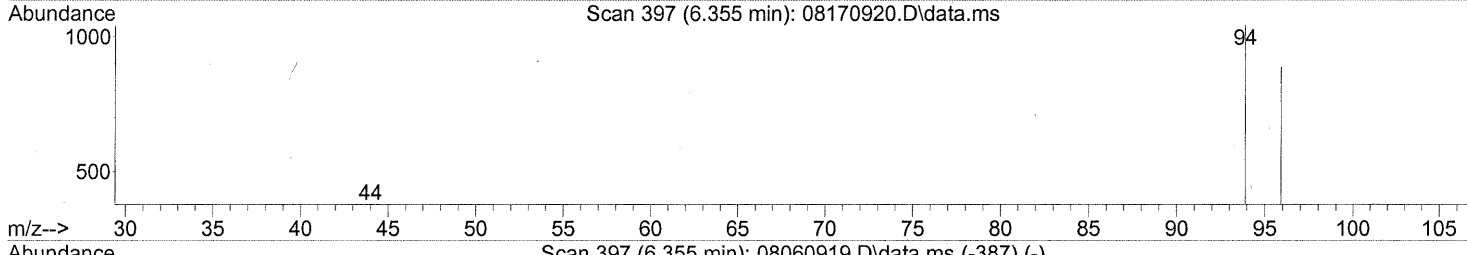
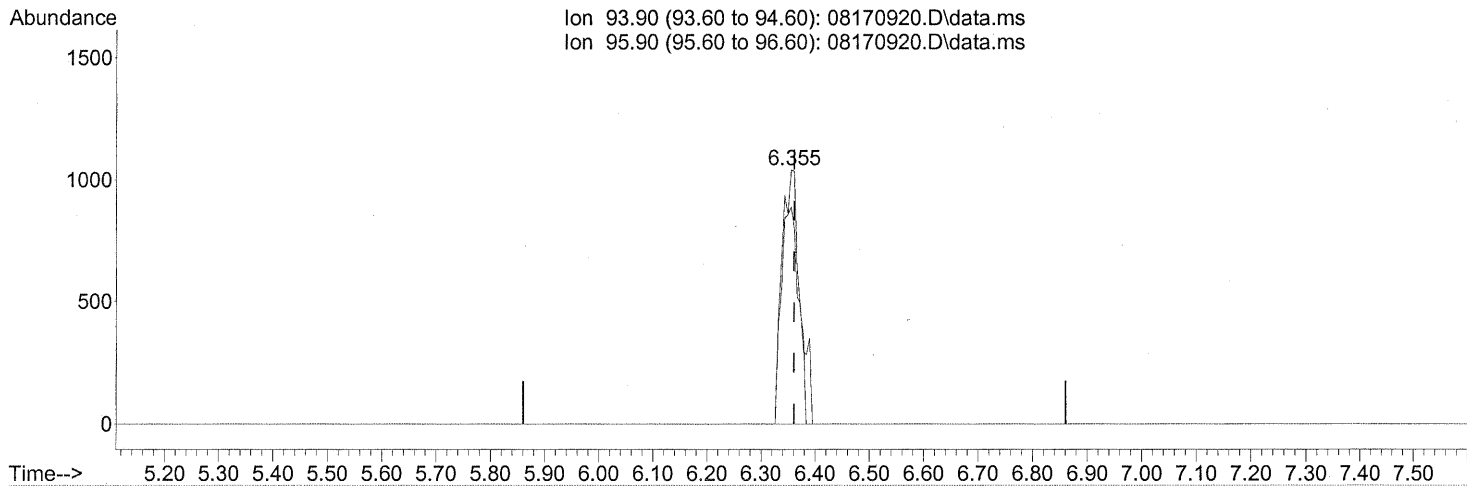
response 9764

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	28.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(8) Bromomethane (T)

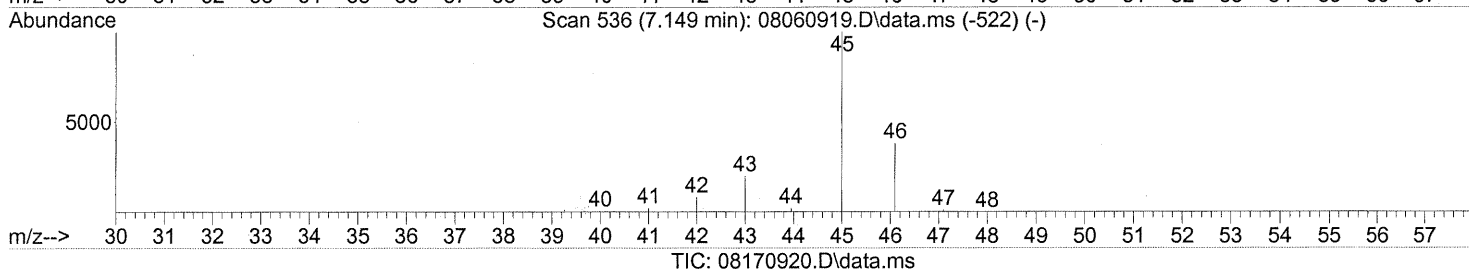
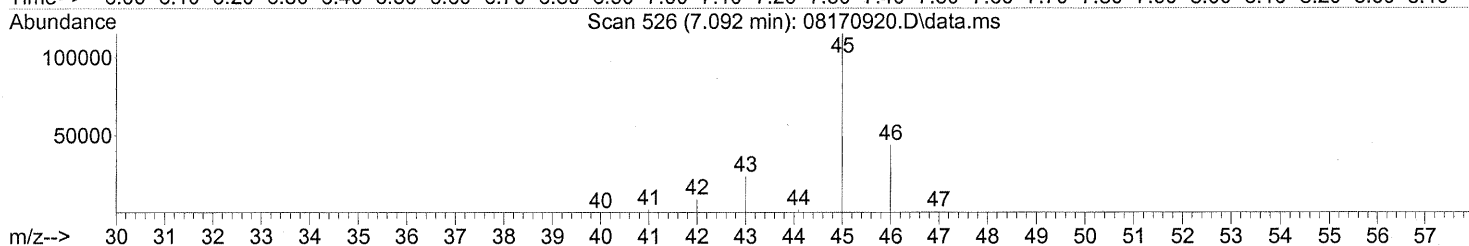
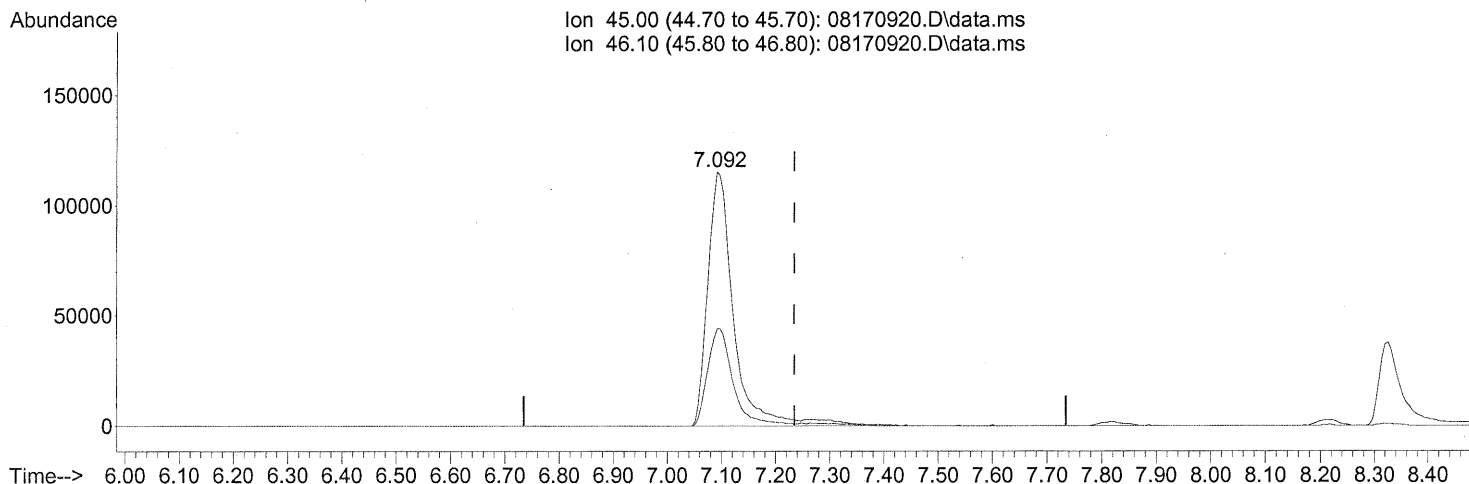
6.355min (-0.006) 0.26ng
 response 2130

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	105.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.092min (-0.143) 46.98ng

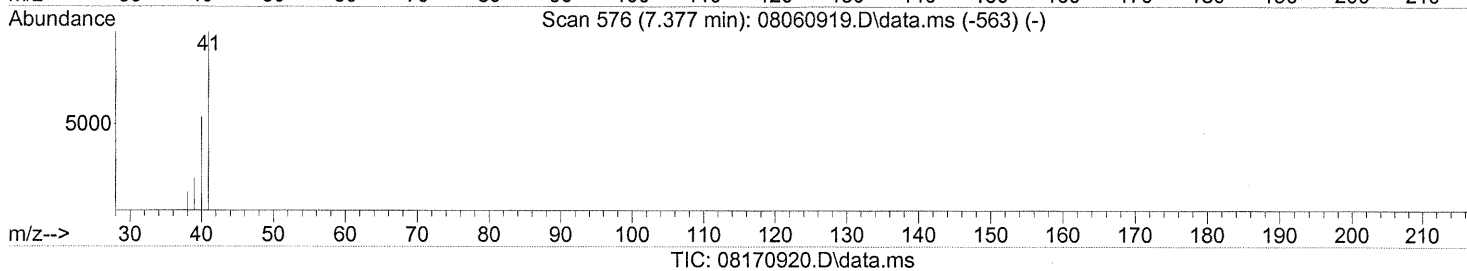
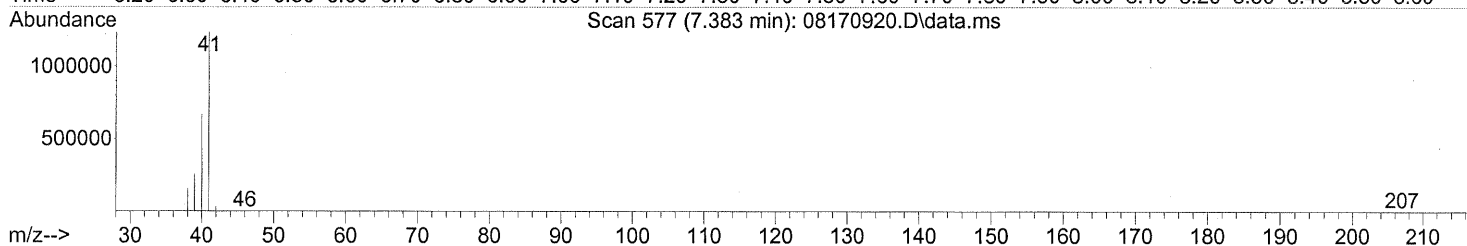
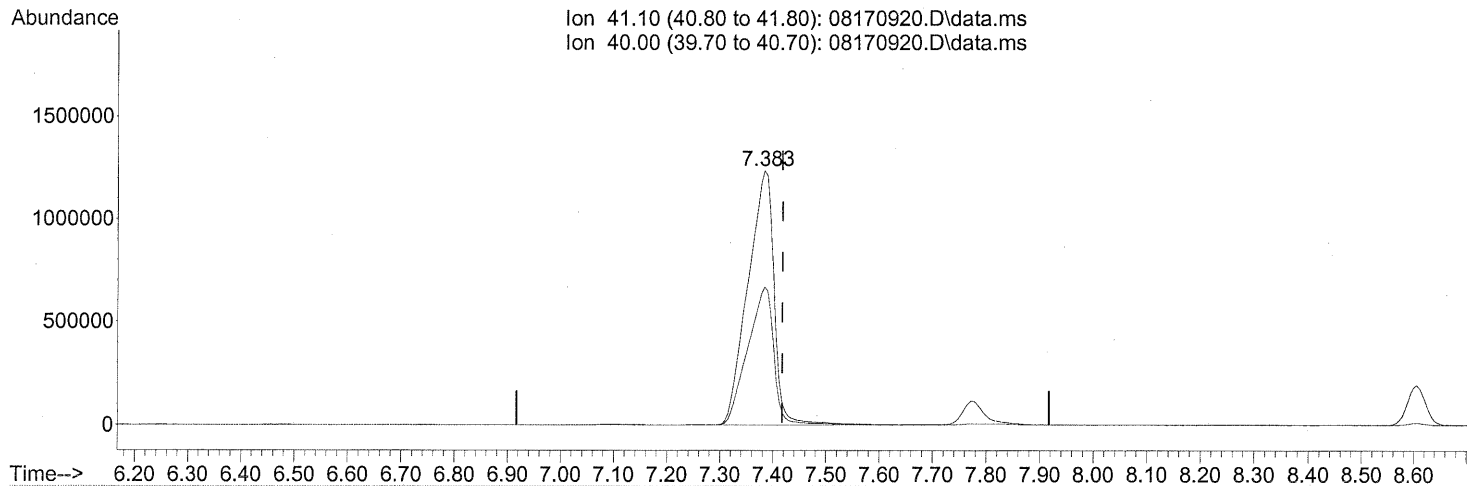
response 385873

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170920.D
Acq On : 17 Aug 2009 18:41
Operator : WA
Sample : P0902721-013 (1000mL)
Misc : Env. Health & Engineering 100202
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 11:04:08 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(11) Acetonitrile (T)

7.383min (-0.034) 177.32ng *E*

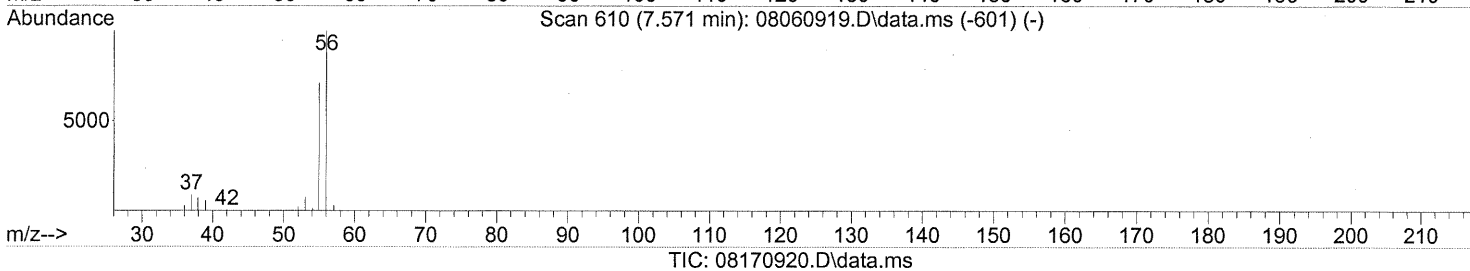
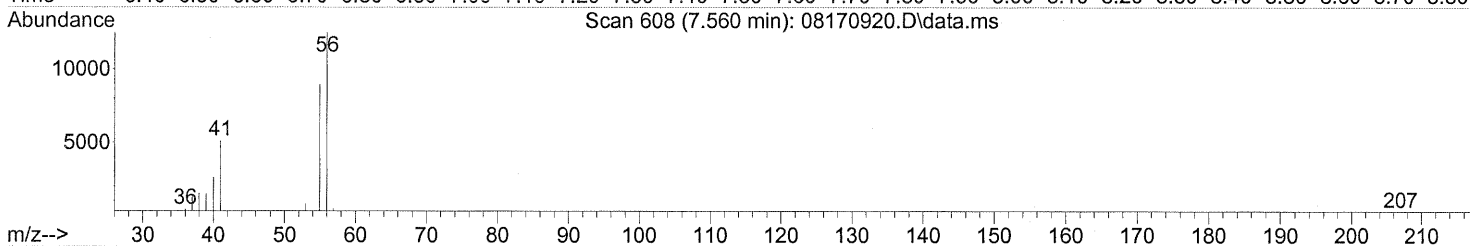
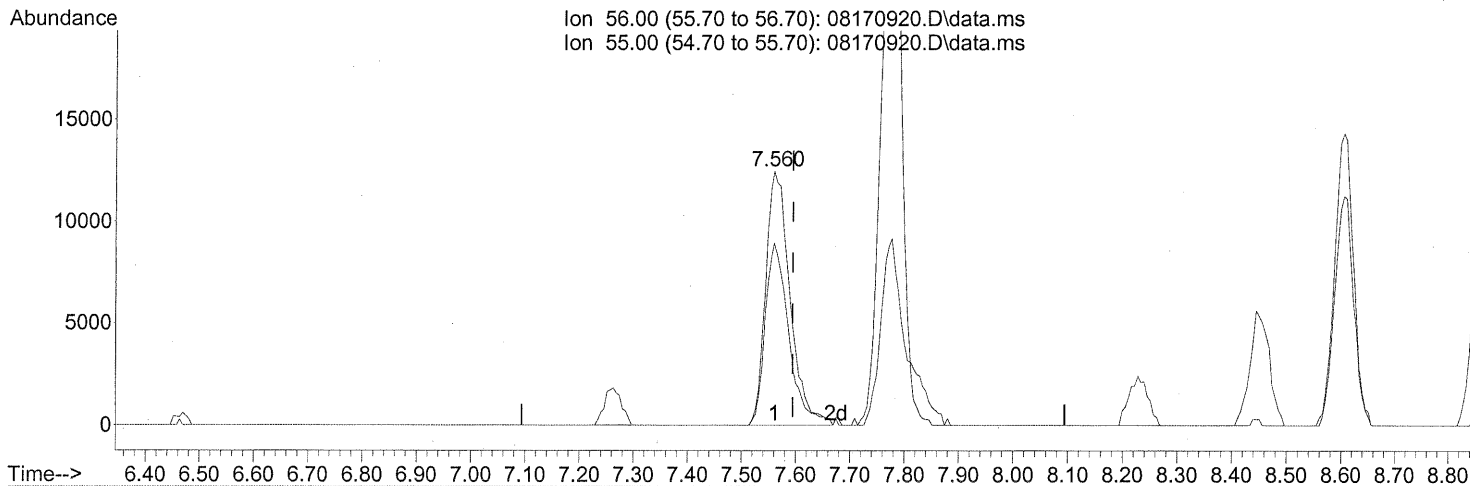
response 4265381

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.560min (-0.034) 6.21ng

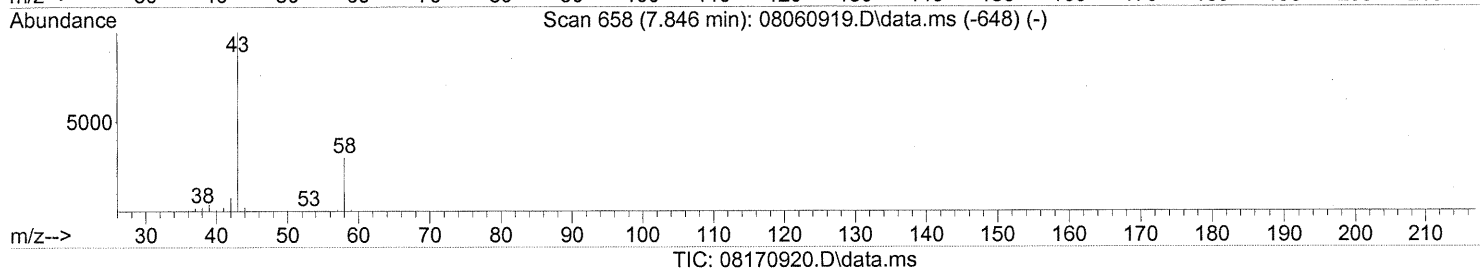
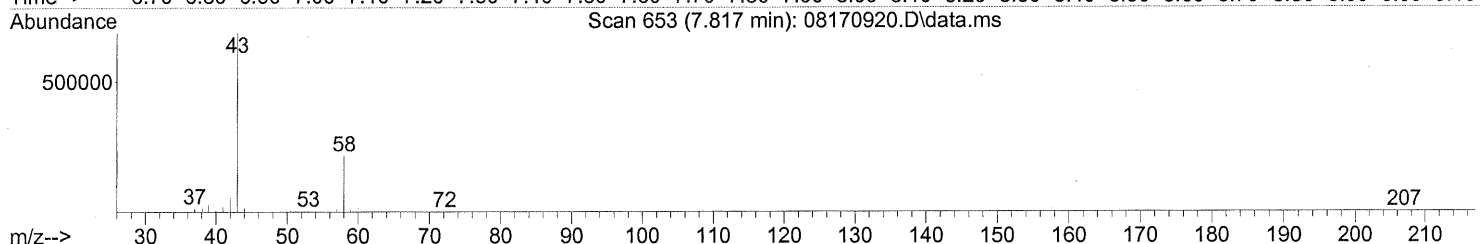
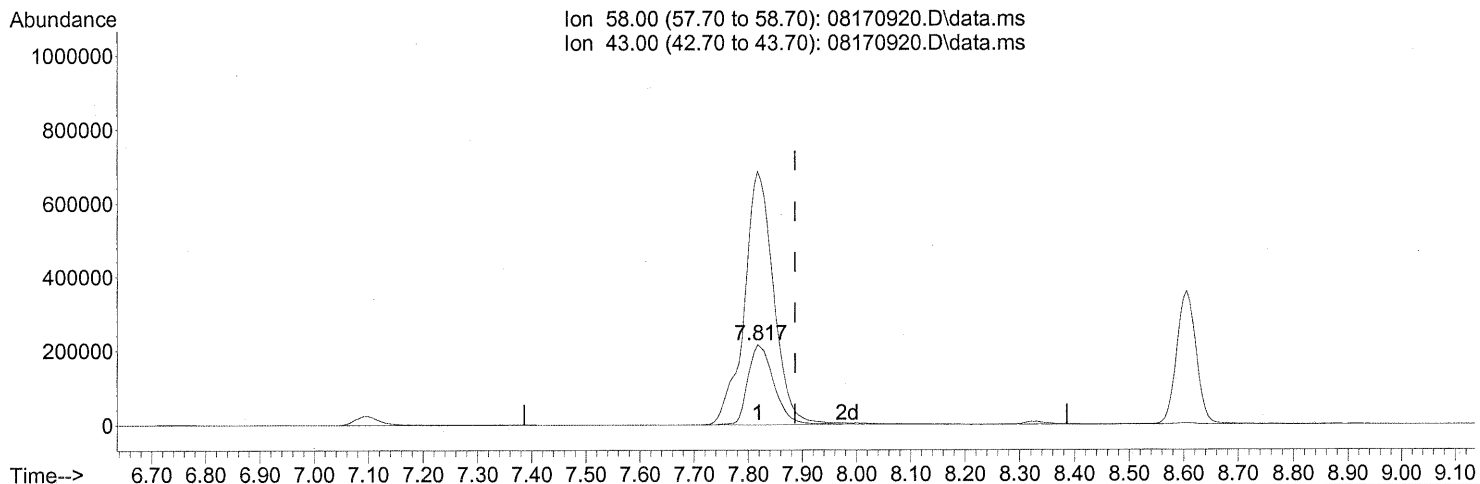
response 38804

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	70.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

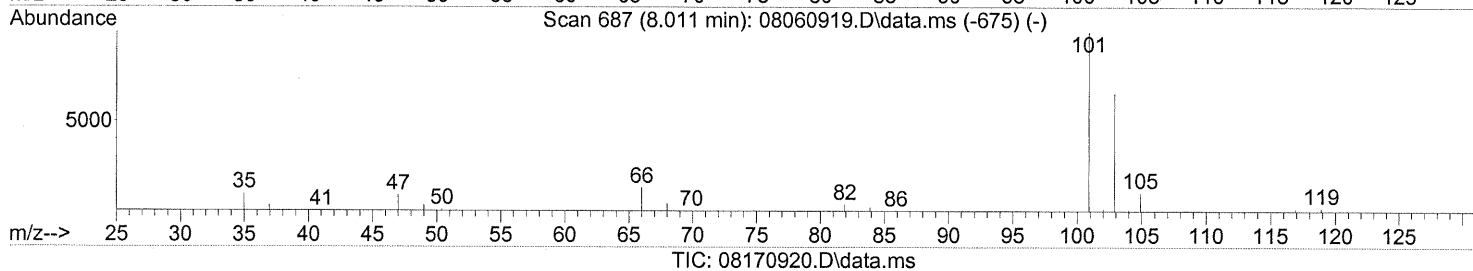
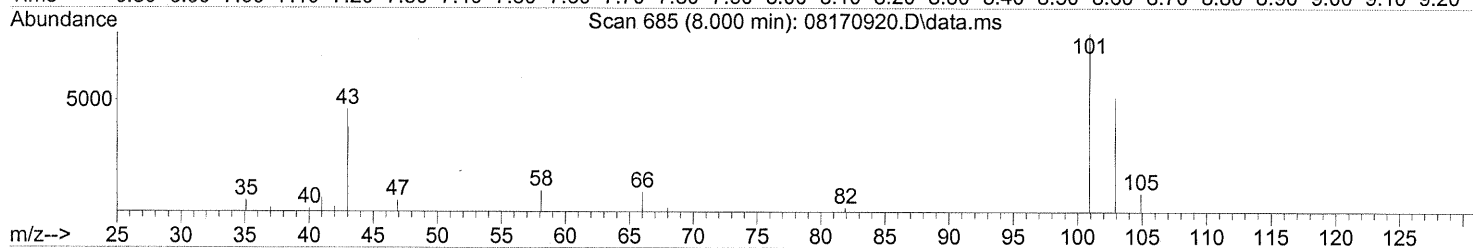
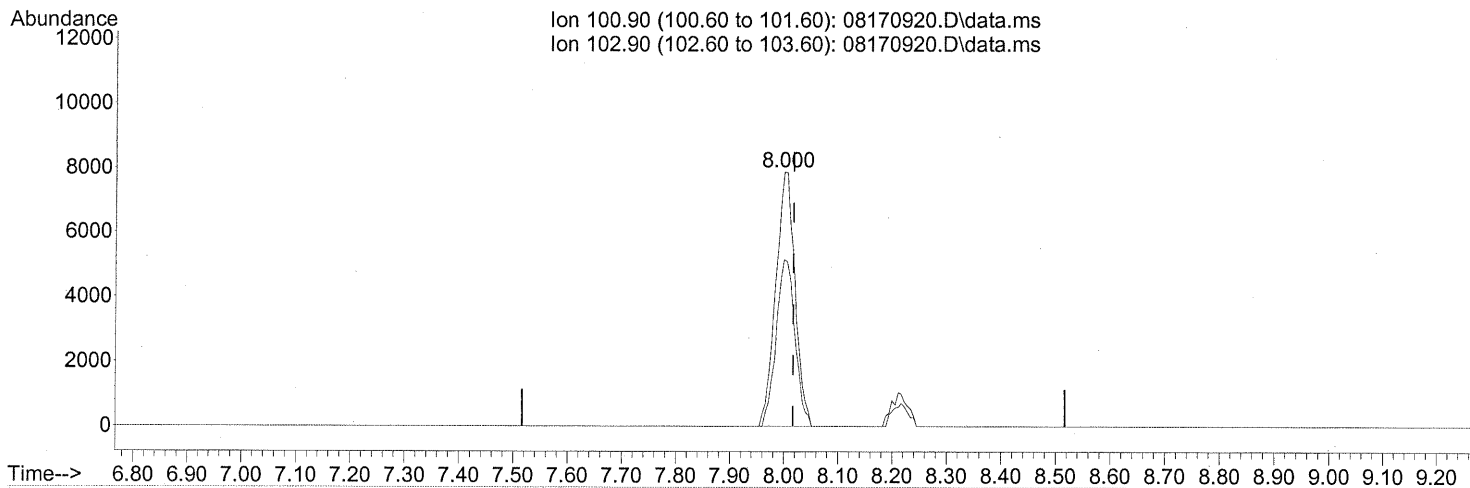
7.817min (-0.069) 92.14ng
 response 714098

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	363.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.000min (-0.017) 1.02ng

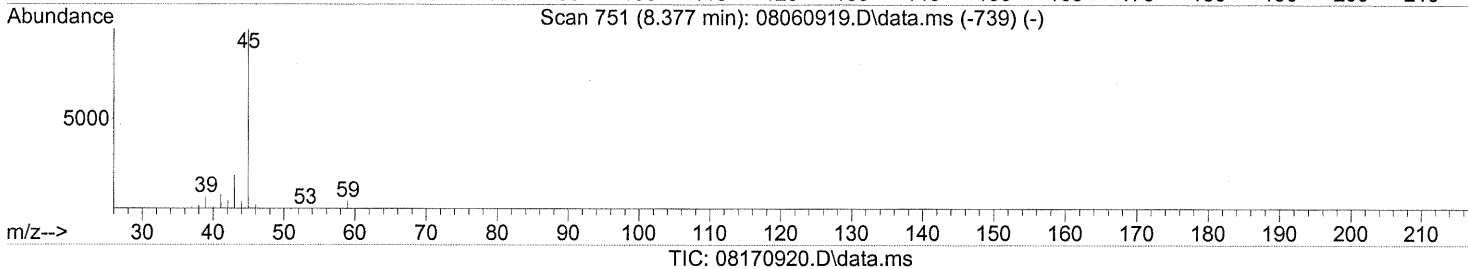
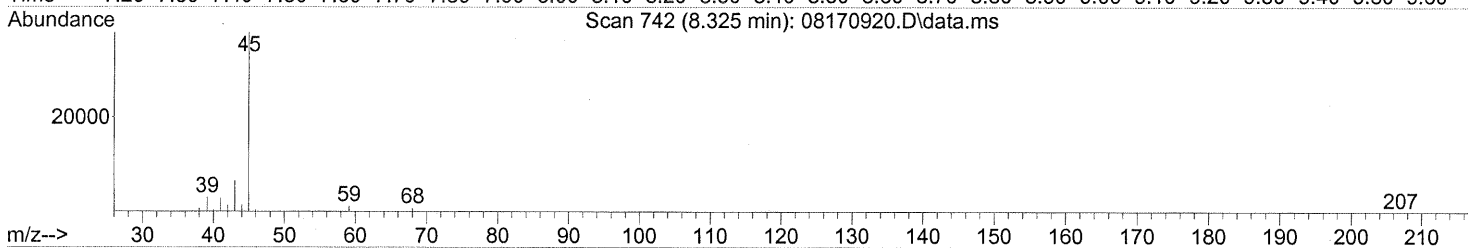
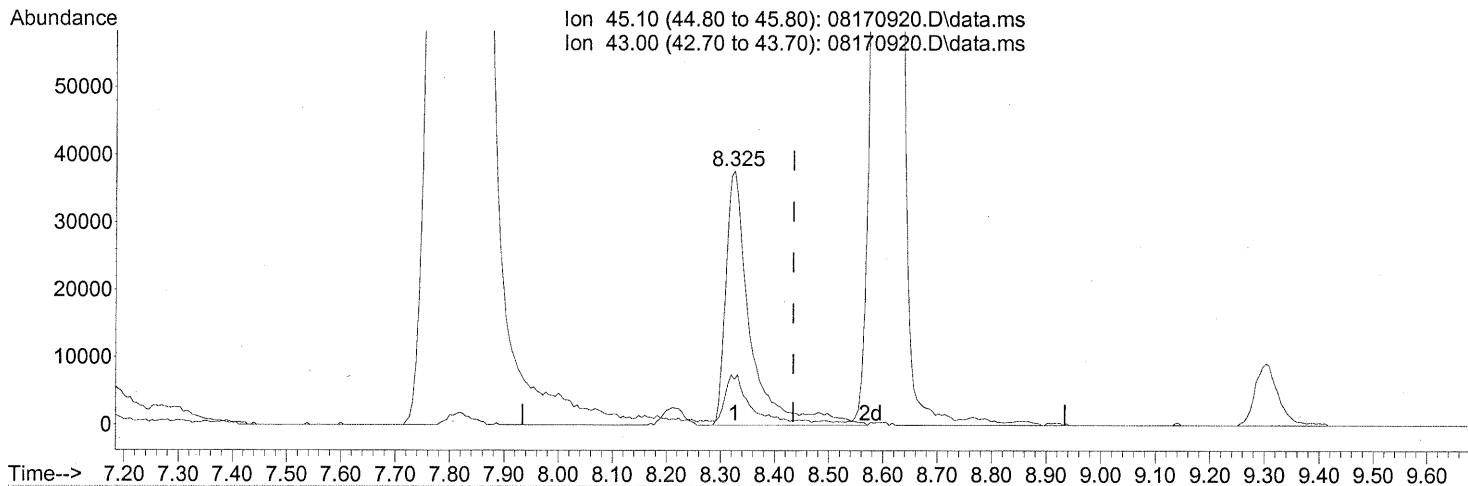
response 19512

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.325min (-0.108) 3.87ng

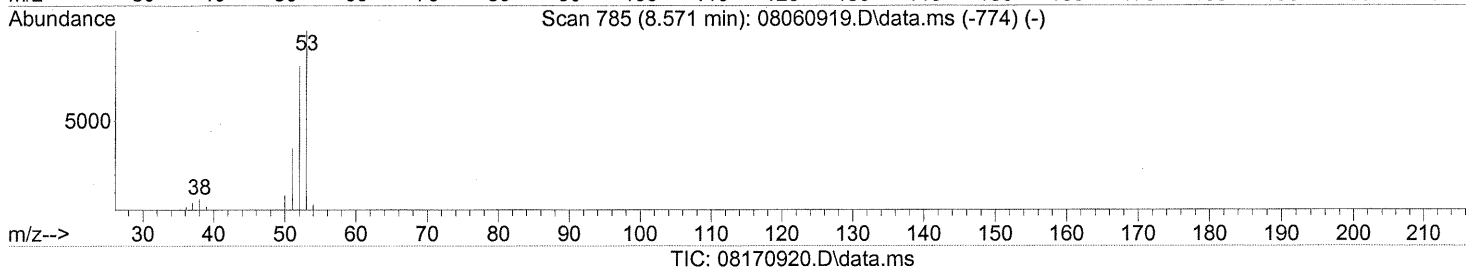
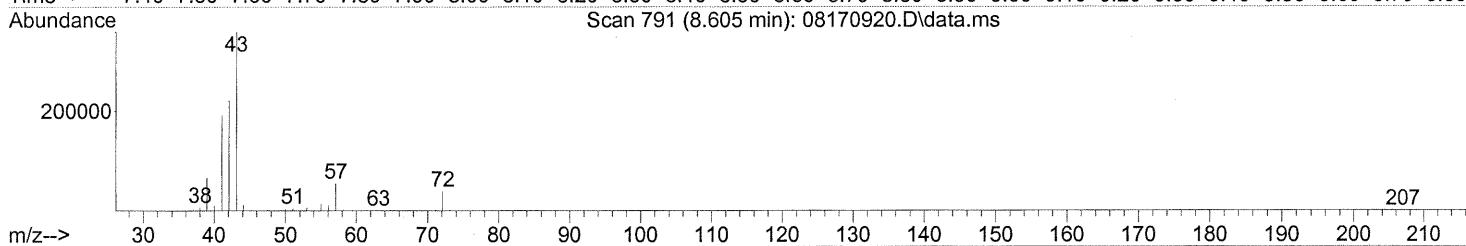
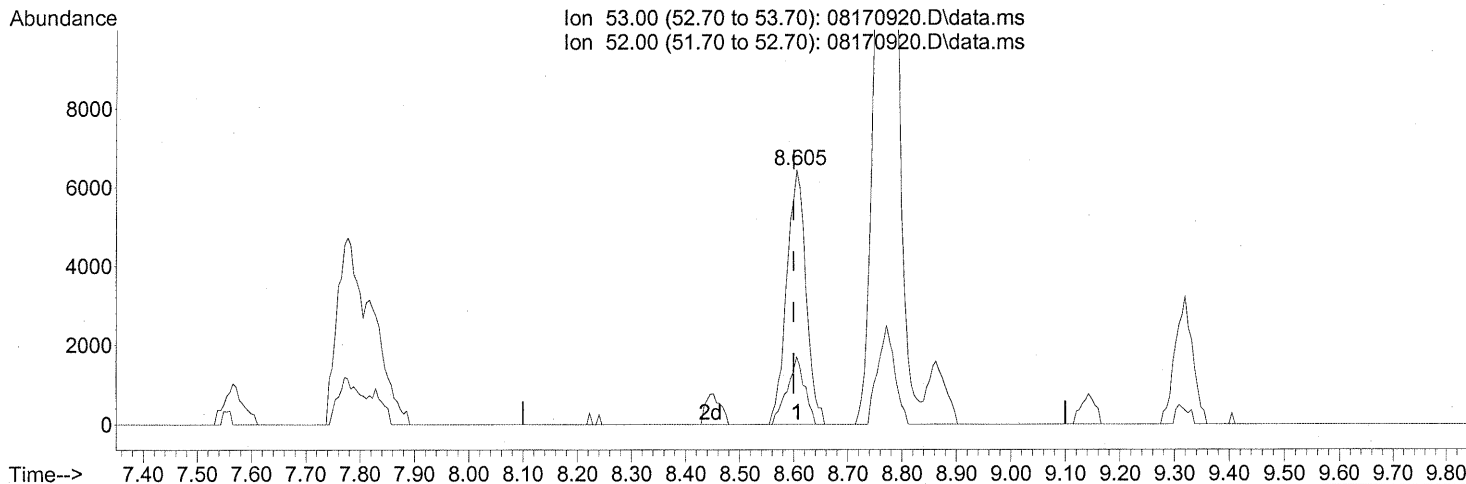
response 117819

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	19.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170920.D
Acq On : 17 Aug 2009 18:41
Operator : WA
Sample : P0902721-013 (1000mL)
Misc : Env. Health & Engineering 100202
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)
8.605min (+0.006) 1.14ng
response 16003

FP W 8/20/09

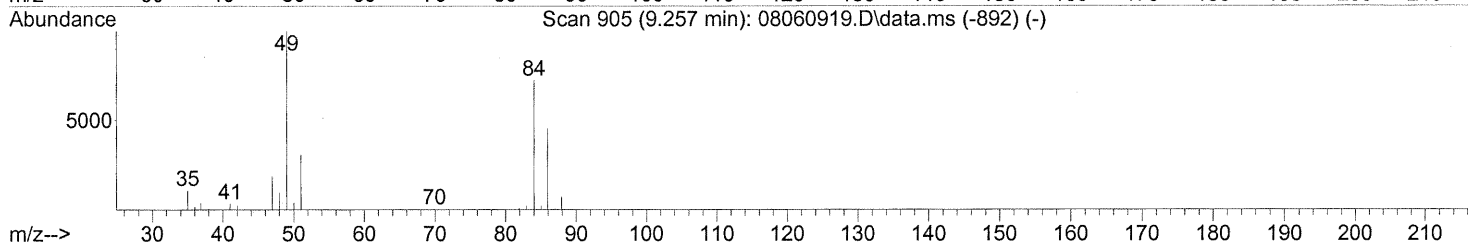
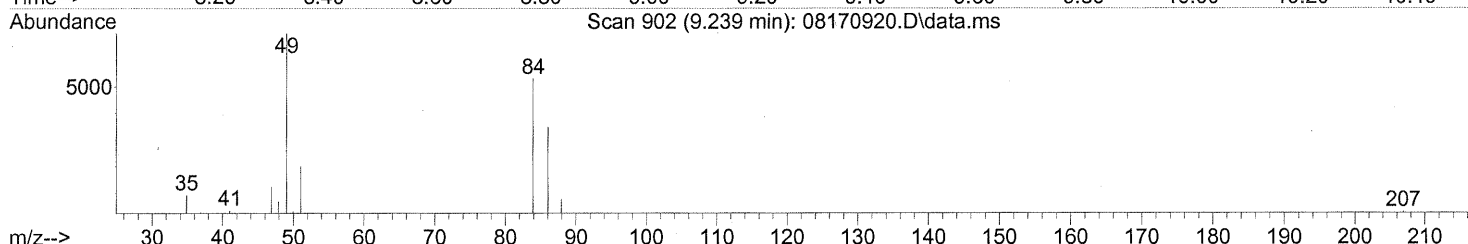
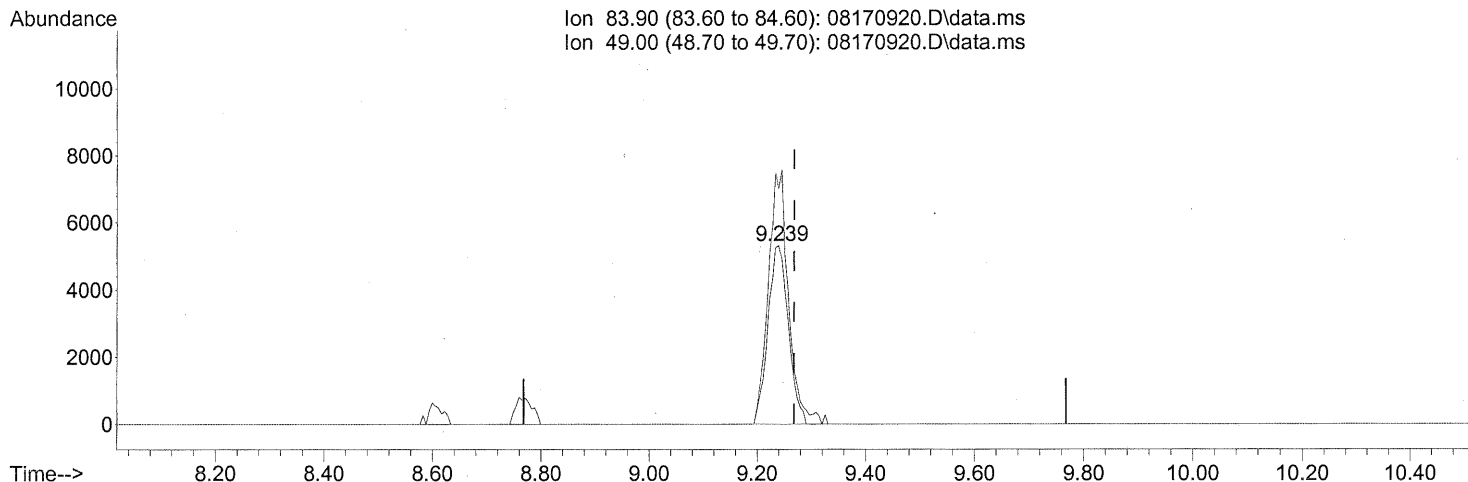
Ion	Exp%	Act%
53.00	100	100
52.00	81.20	23.86#
0.00	0.00	0.00
0.00	0.00	0.00

— R 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170920.D
Acq On : 17 Aug 2009 18:41
Operator : WA
Sample : P0902721-013 (1000mL)
Misc : Env. Health & Engineering 100202
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08170920.D\data.ms

(19) Methylene Chloride (T)

9.239min (-0.029) 1.34ng

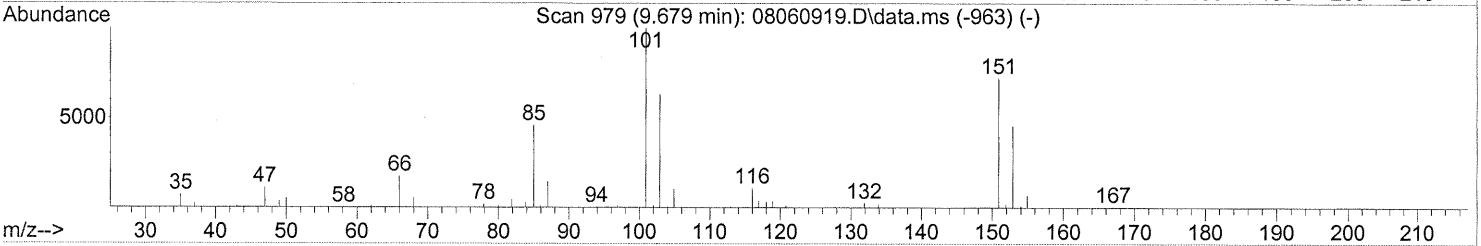
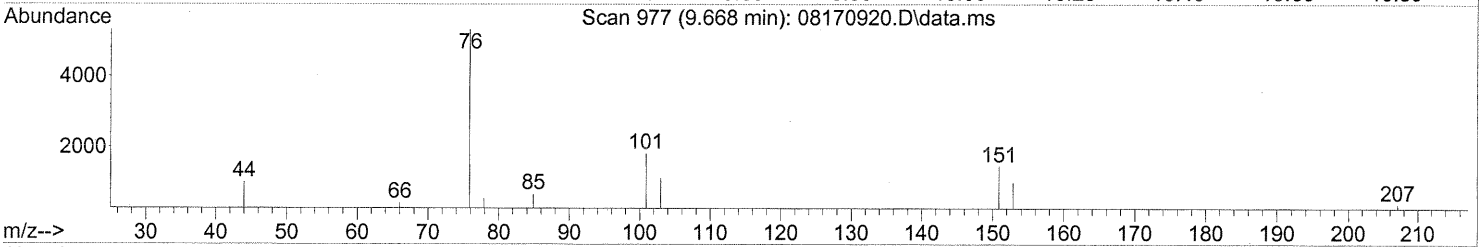
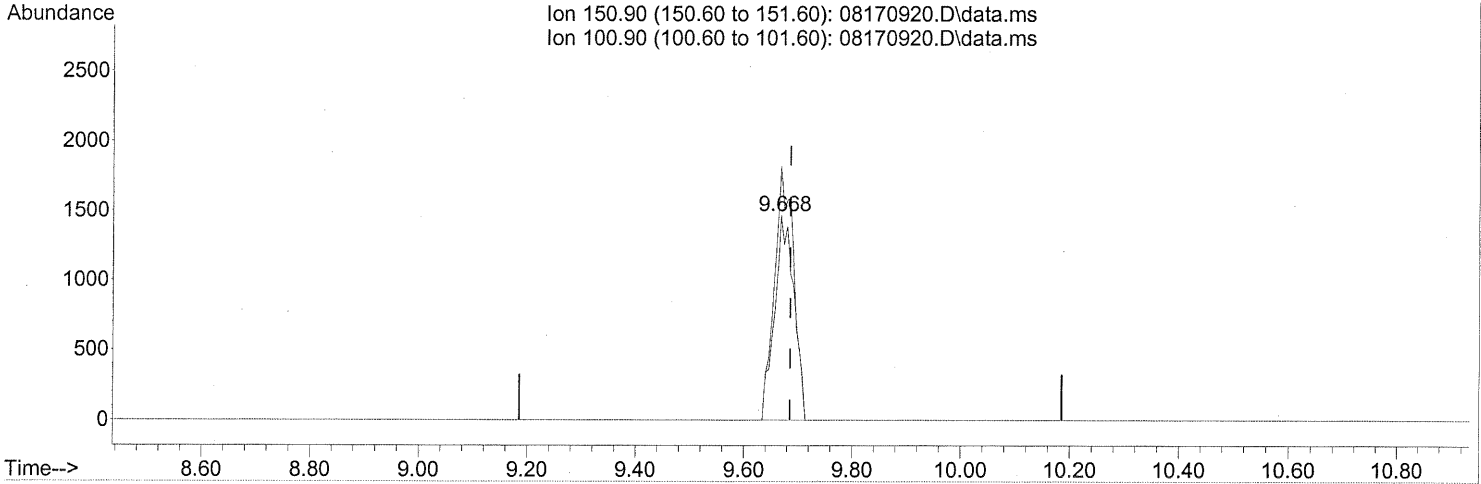
response 13996

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	140.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170920.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.668min (-0.017) 0.53ng

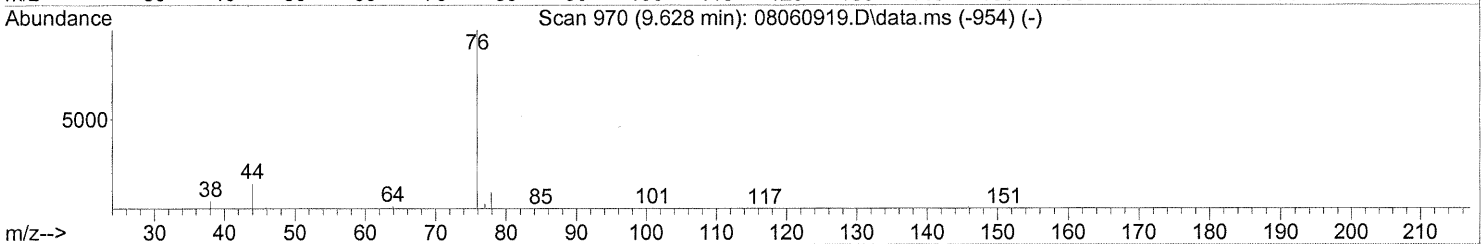
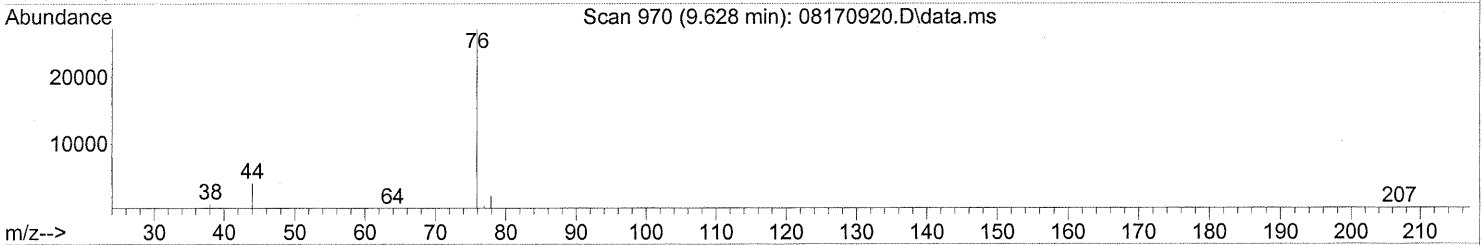
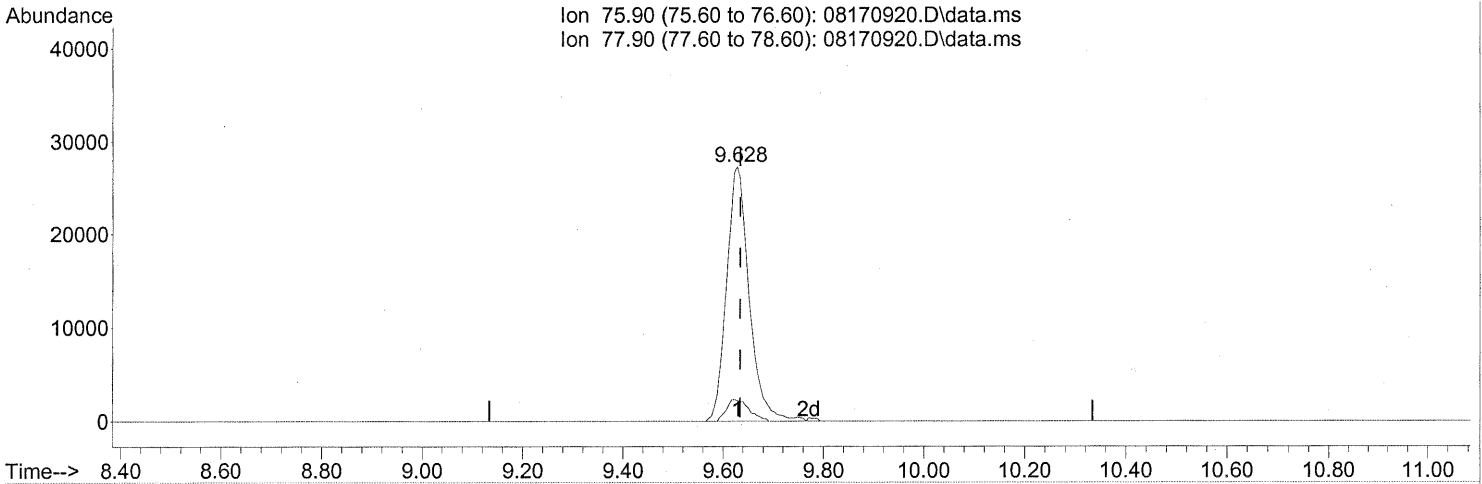
response 3681

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	121.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170920.D\data.ms

(22) Carbon Disulfide (T)

9.628min (-0.006) 2.33ng

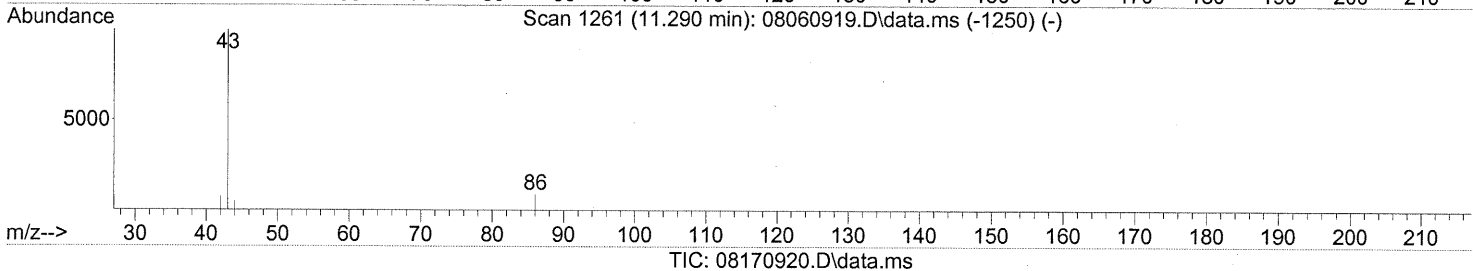
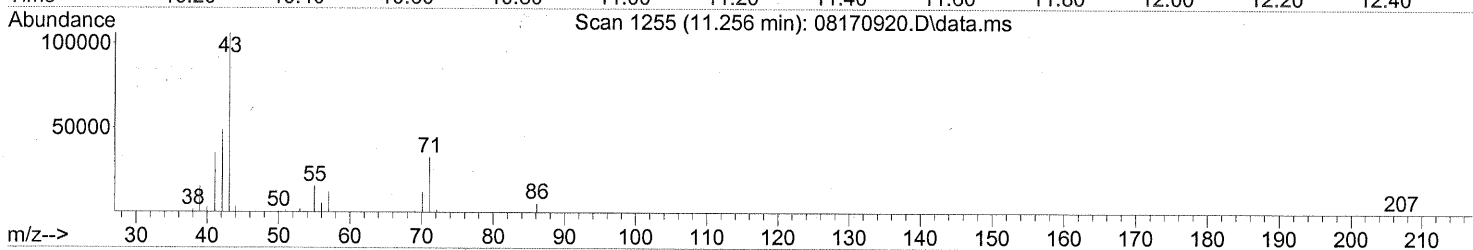
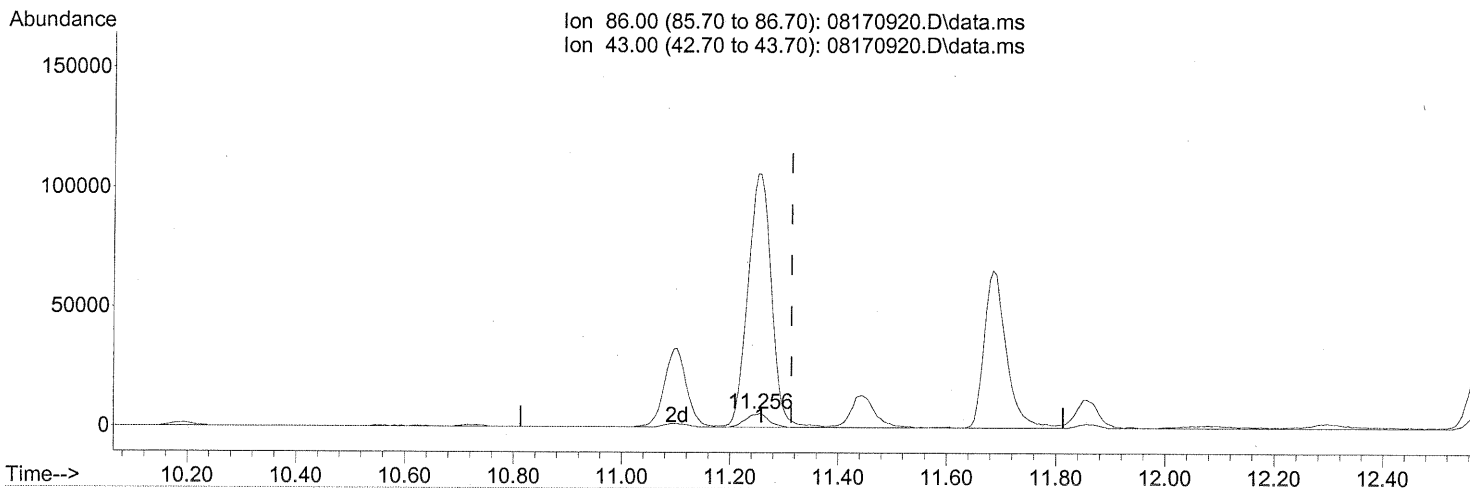
response 85368

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.256min (-0.057) 10.53ng
 response 16604

FP UA 8/20/09

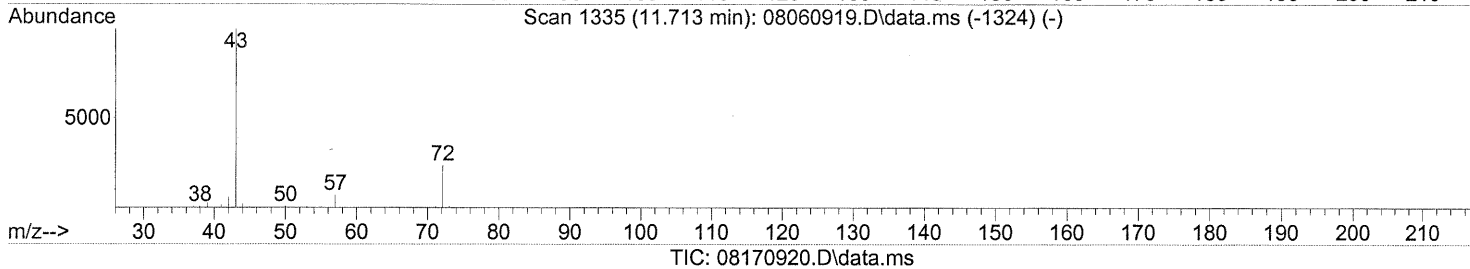
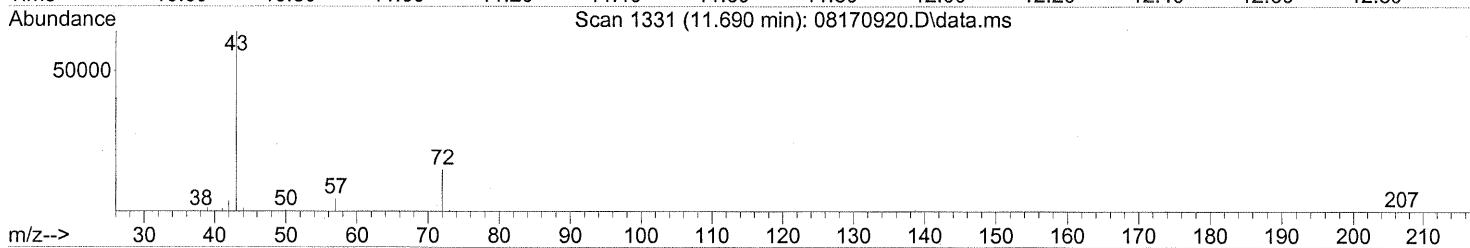
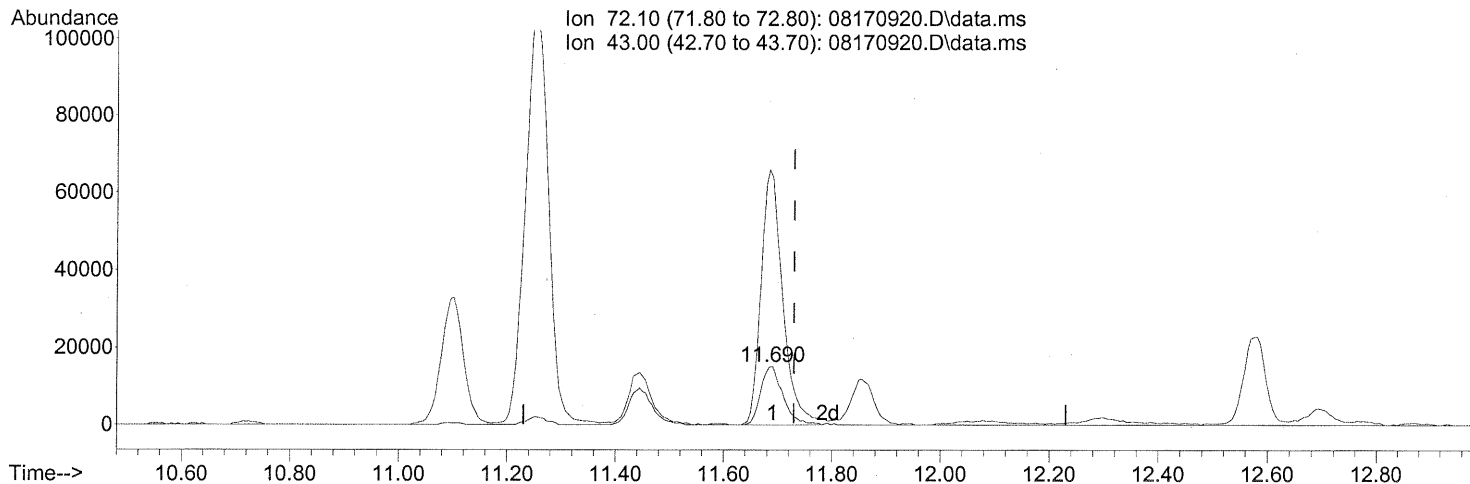
Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1904.48#
0.00	0.00	0.00
0.00	0.00	0.00

— 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.690min (-0.040) 6.18ng

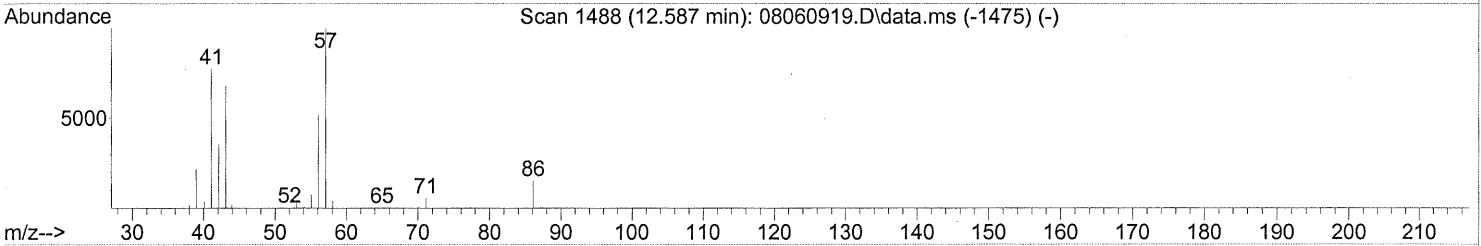
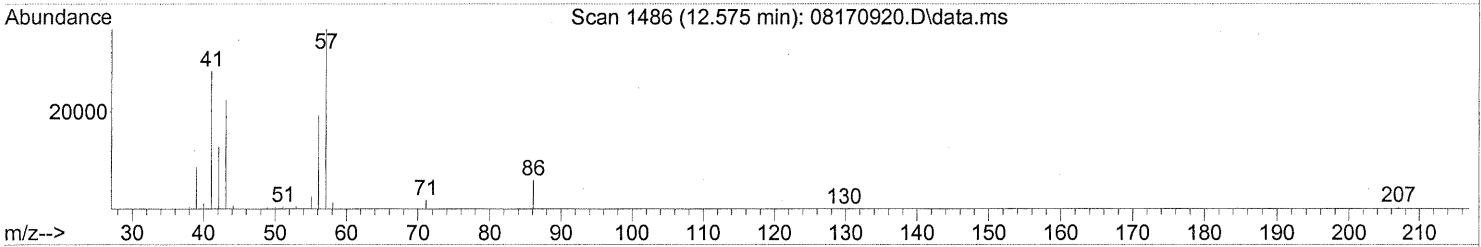
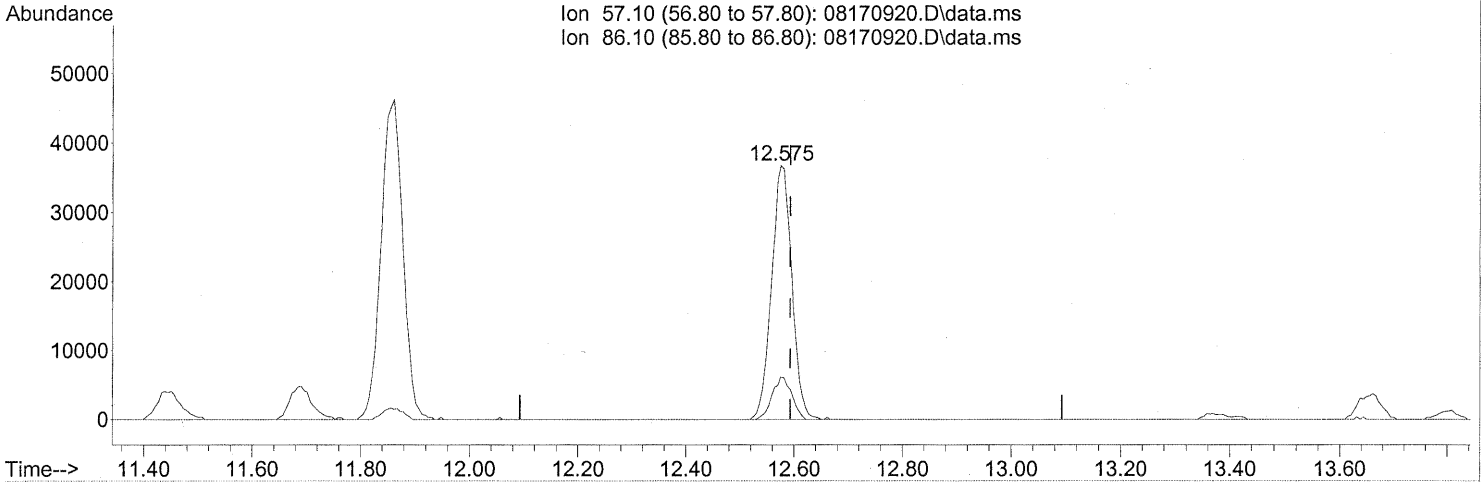
response 43229

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	429.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 20 11:04:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170920.D\data.ms

(31) n-Hexane (T)

12.575min (-0.017) 5.15ng

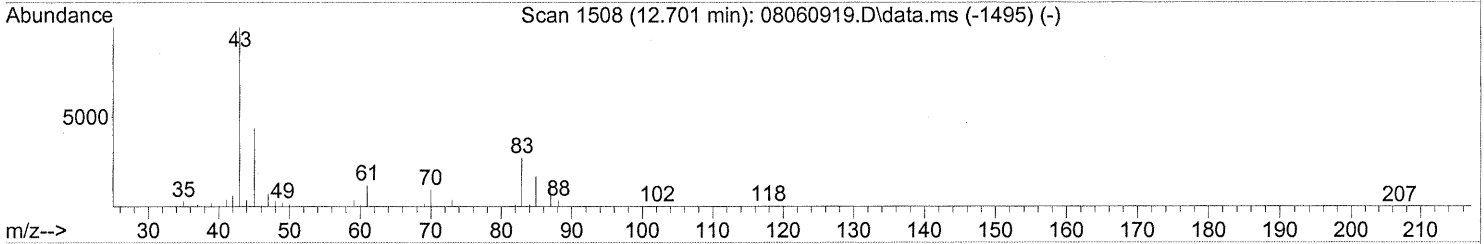
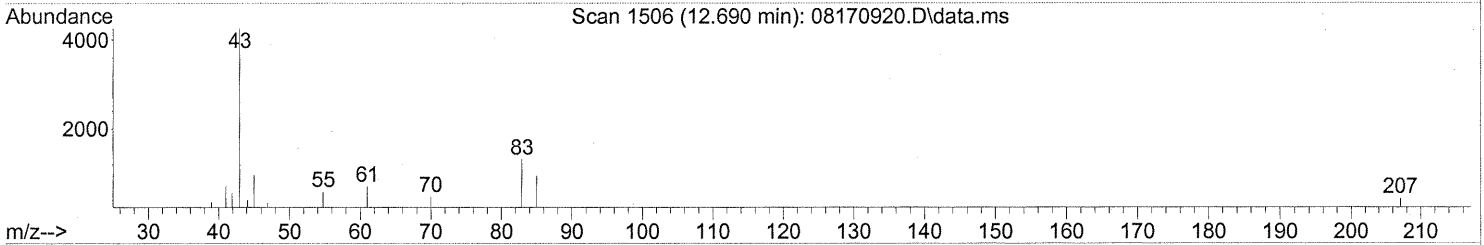
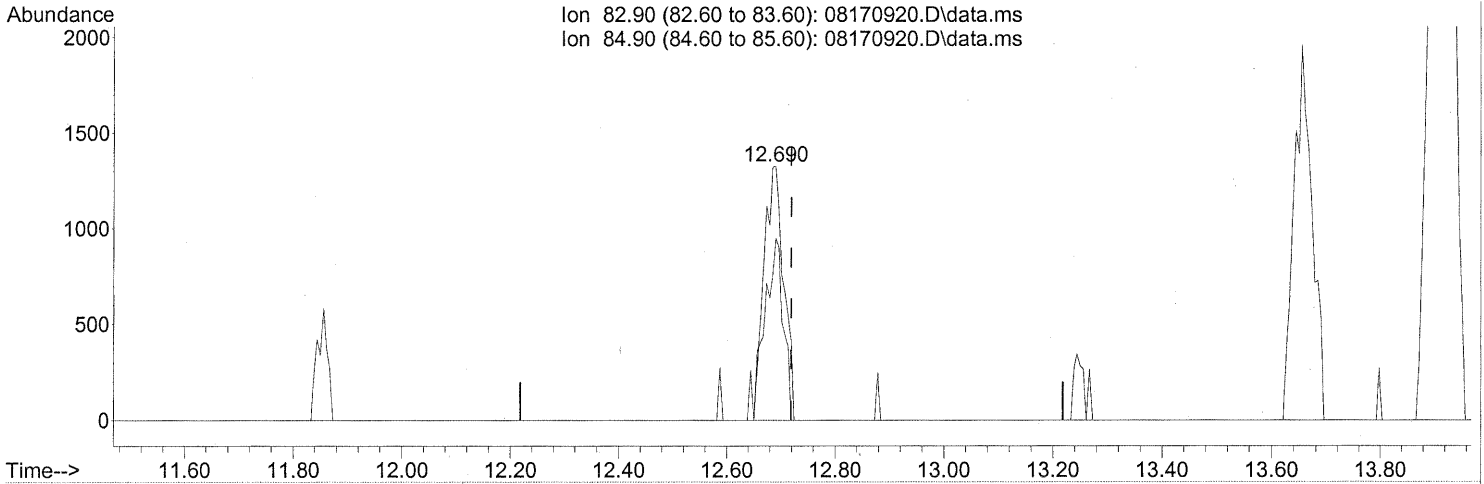
response 95960

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	16.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170920.D\data.ms

(32) Chloroform (T)

12.690min (-0.029) 0.21ng

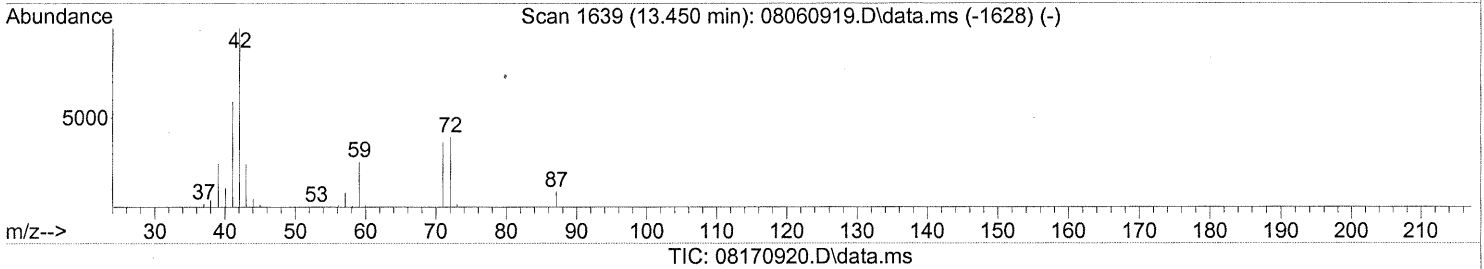
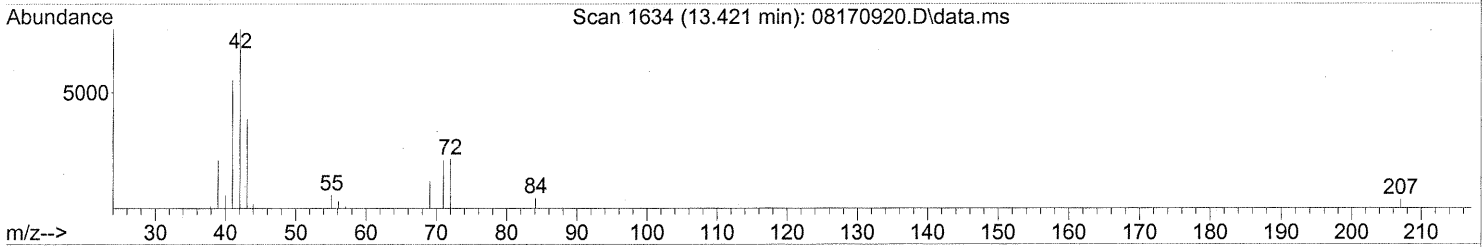
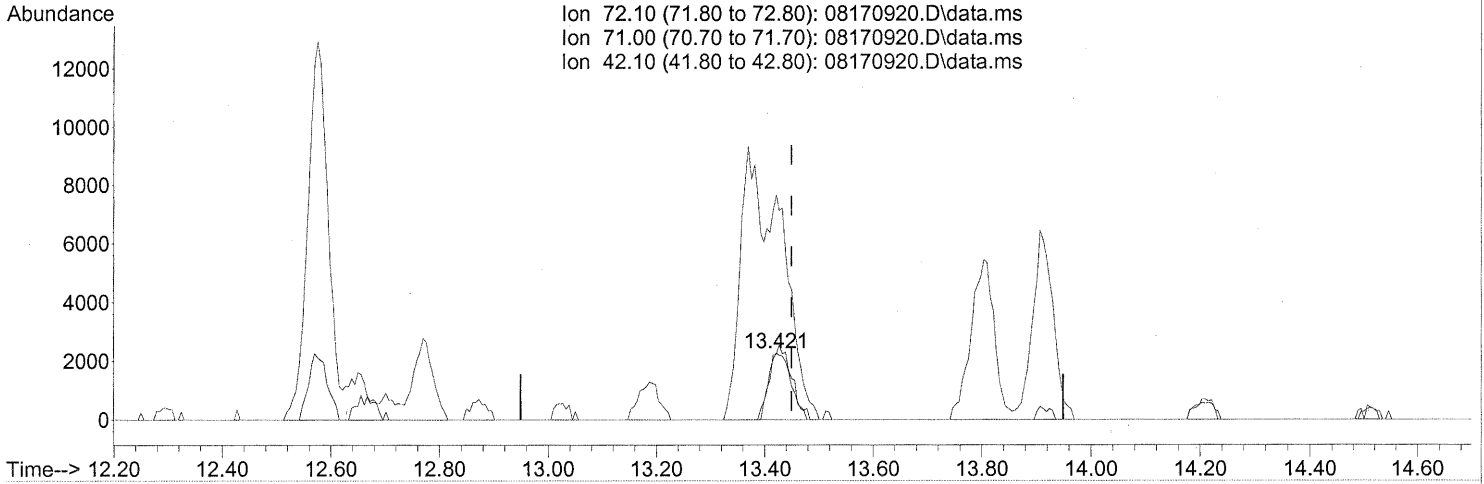
response 3371

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	68.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.421min (-0.028) 0.89ng

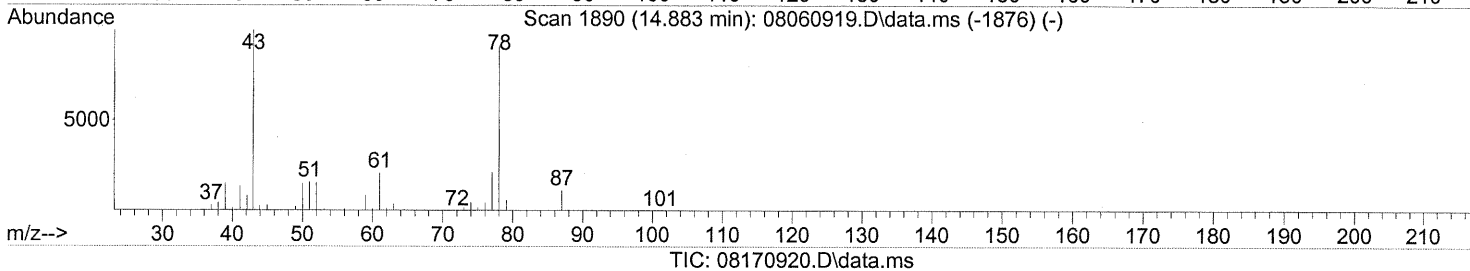
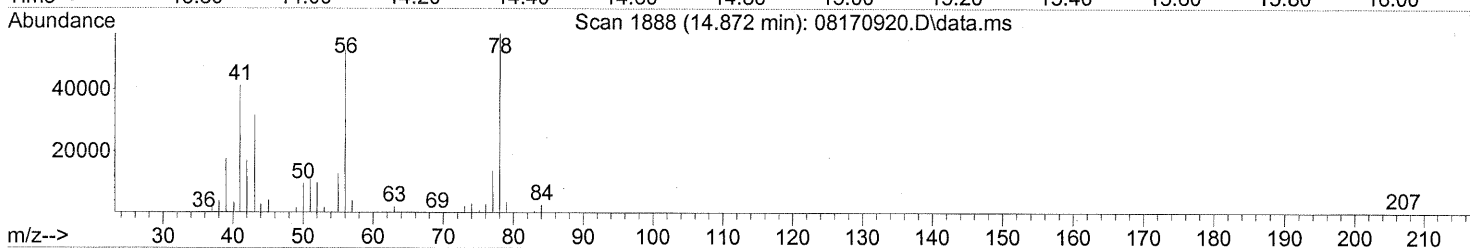
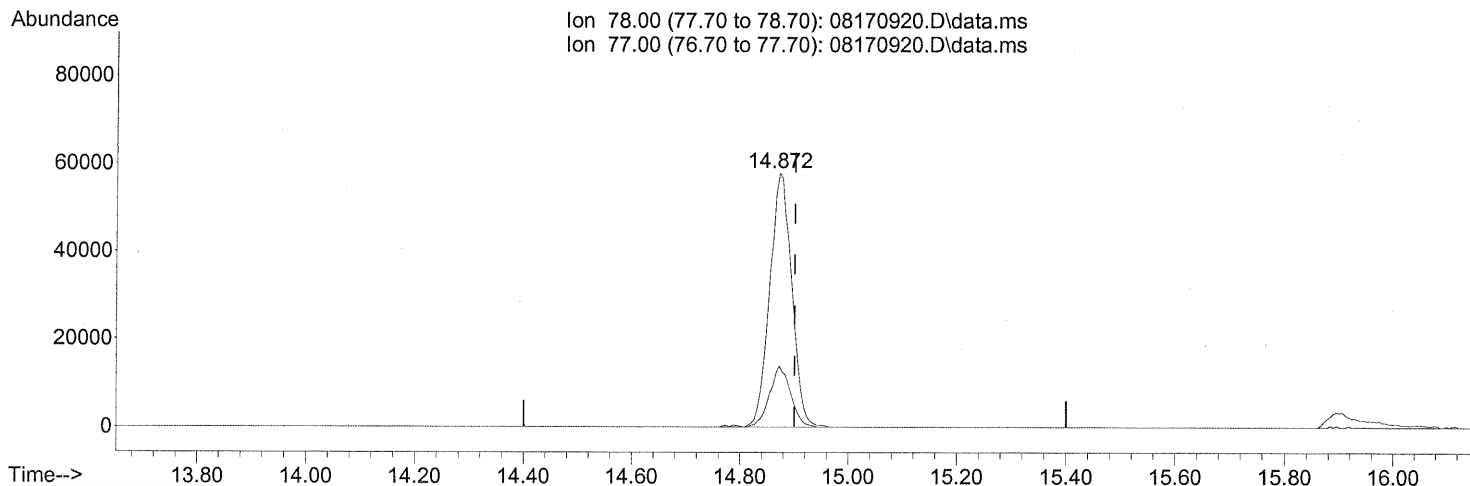
response 6612

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	107.23
42.10	253.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.872min (-0.029) 3.91ng

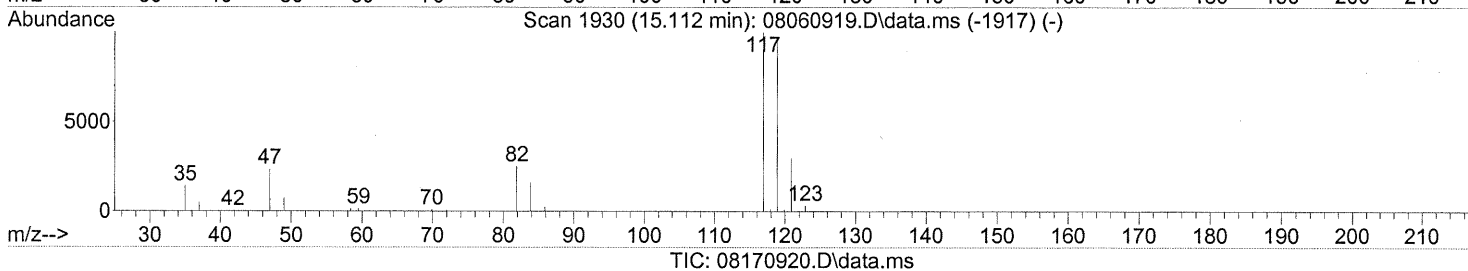
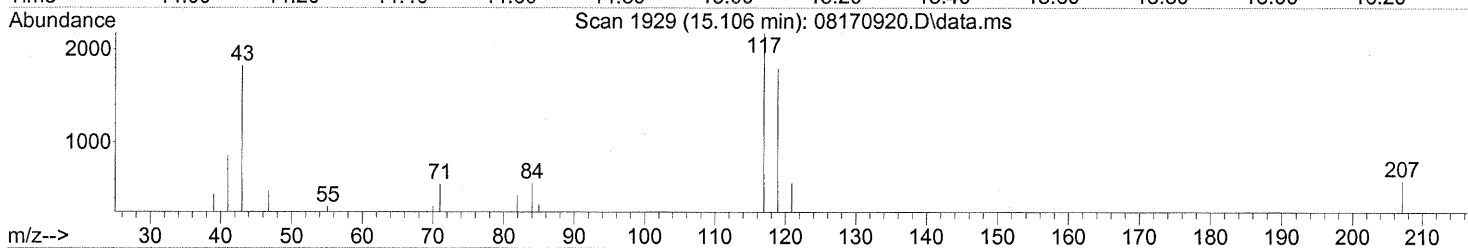
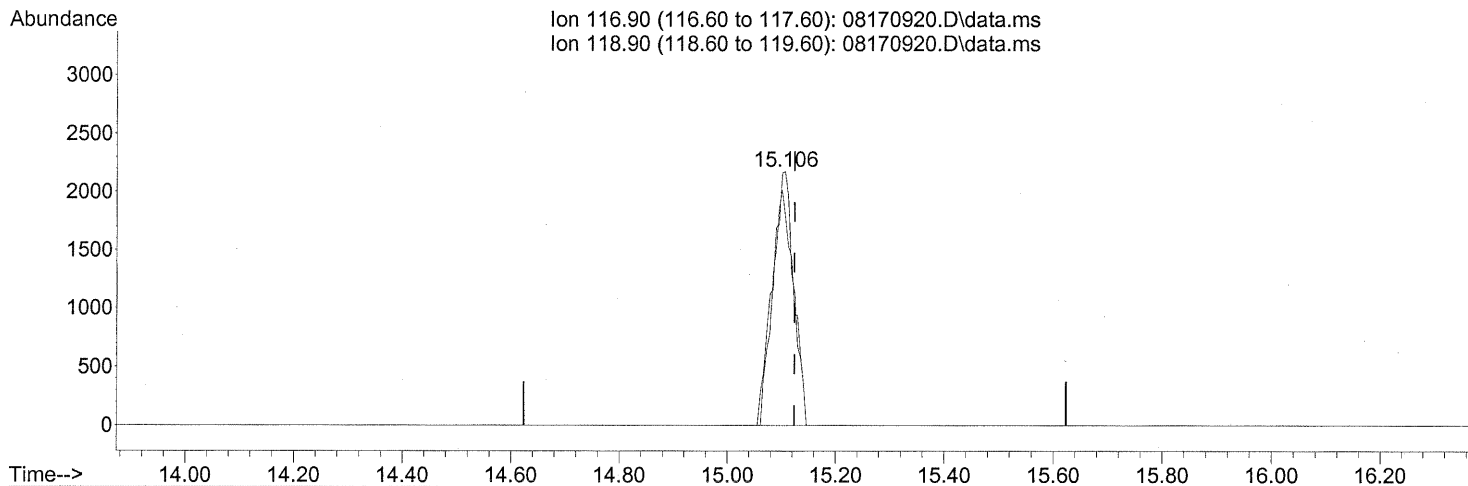
response 163647

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	22.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.45ng

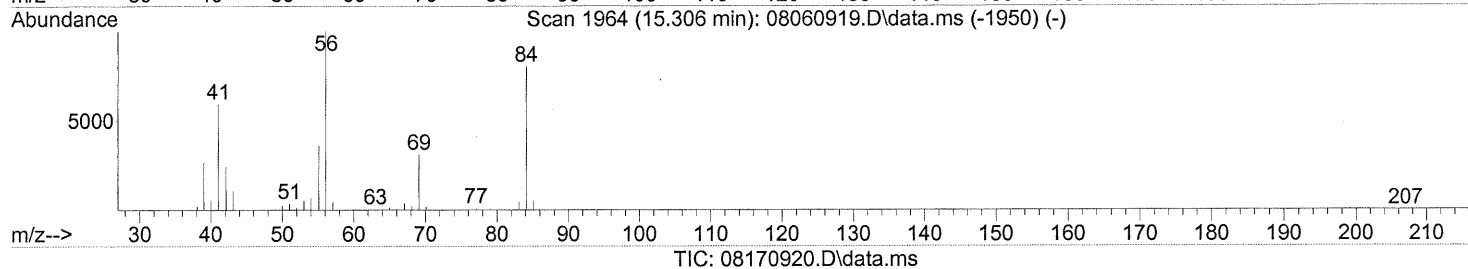
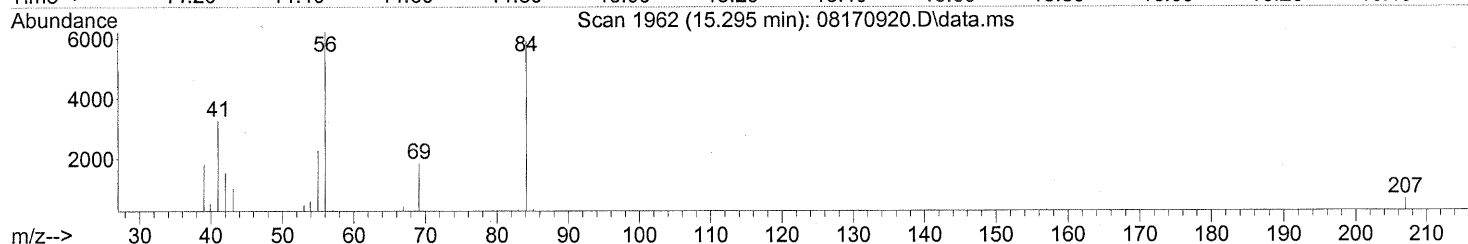
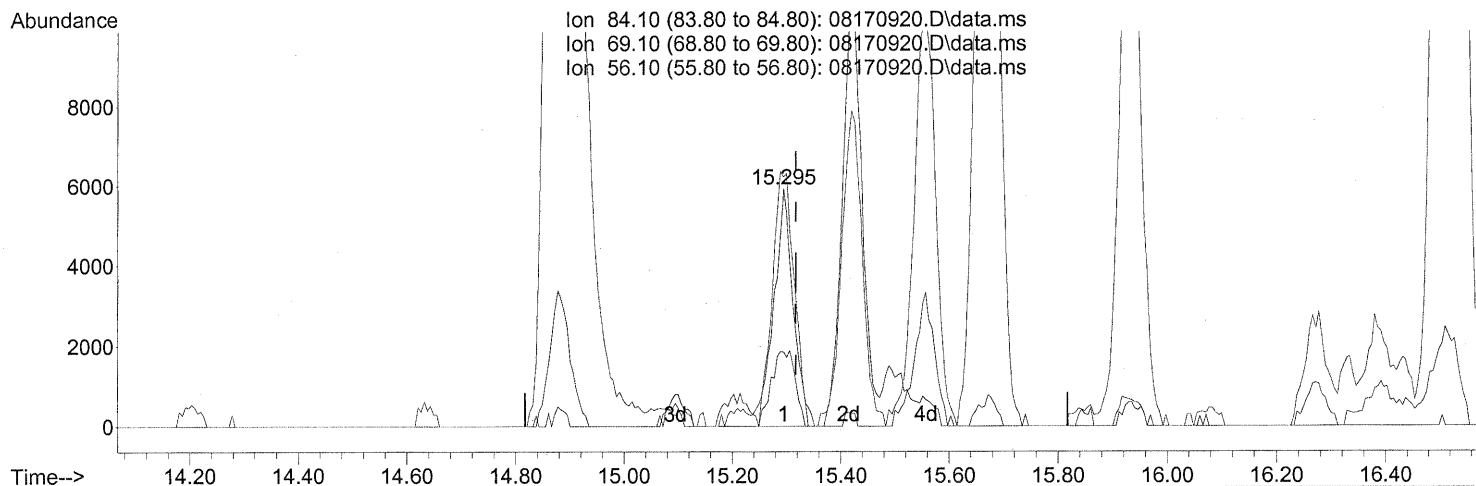
response 6010

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	91.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(43) Cyclohexane (T)

15.295min (-0.023) 0.94ng

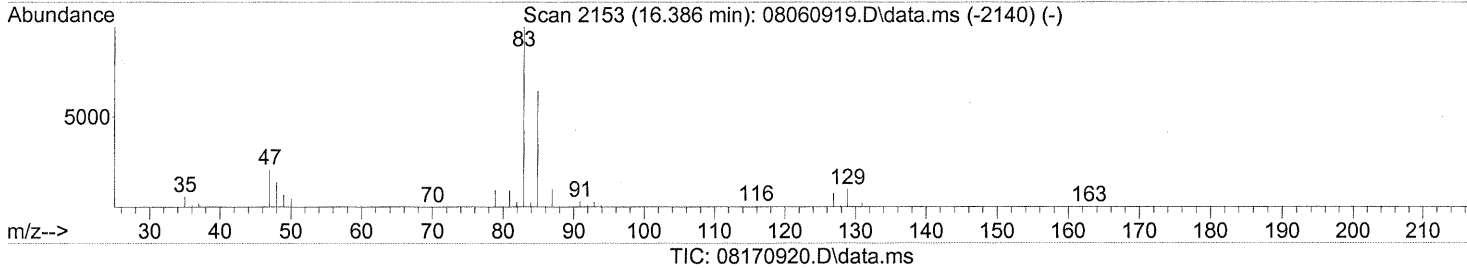
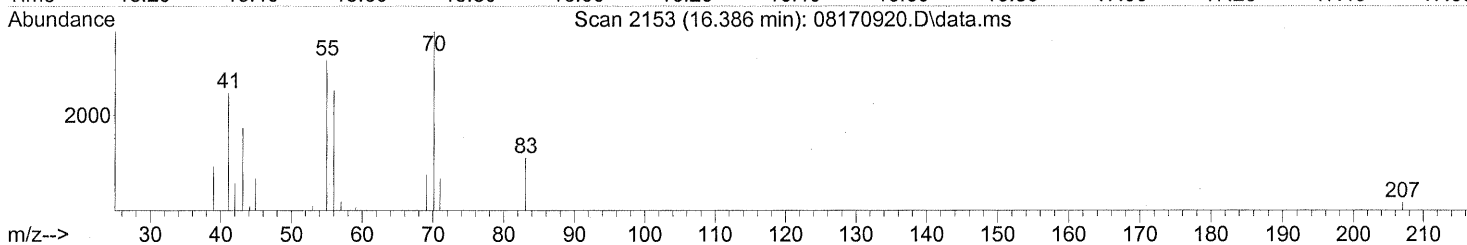
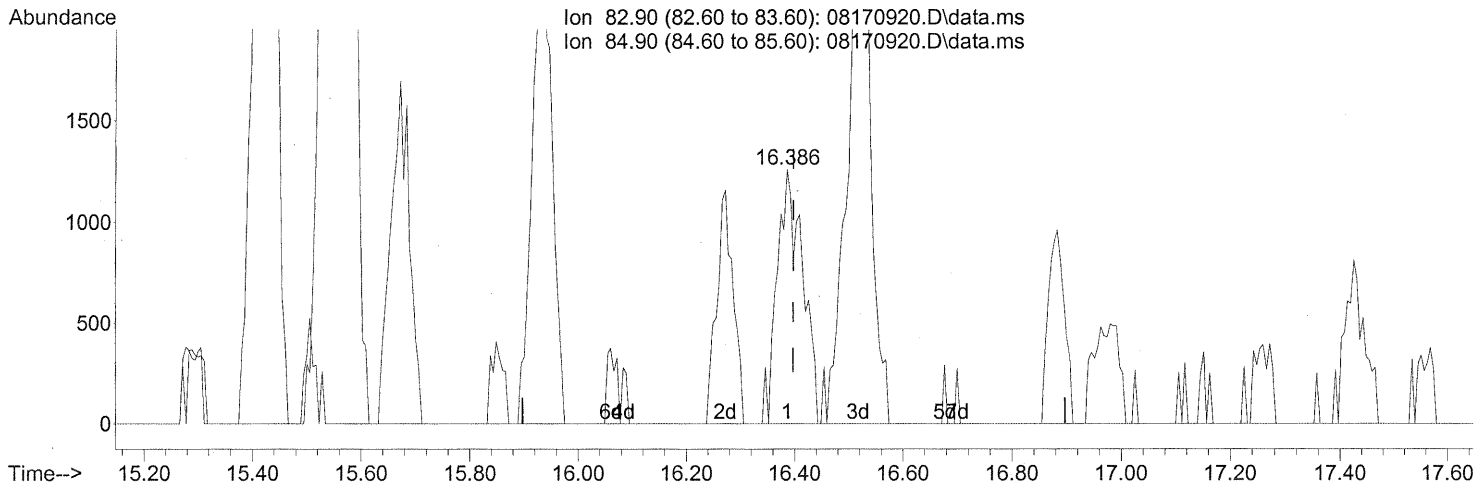
response 14362

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	39.79
56.10	127.50	128.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.386min (-0.011) 0.30ng

response 4128

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

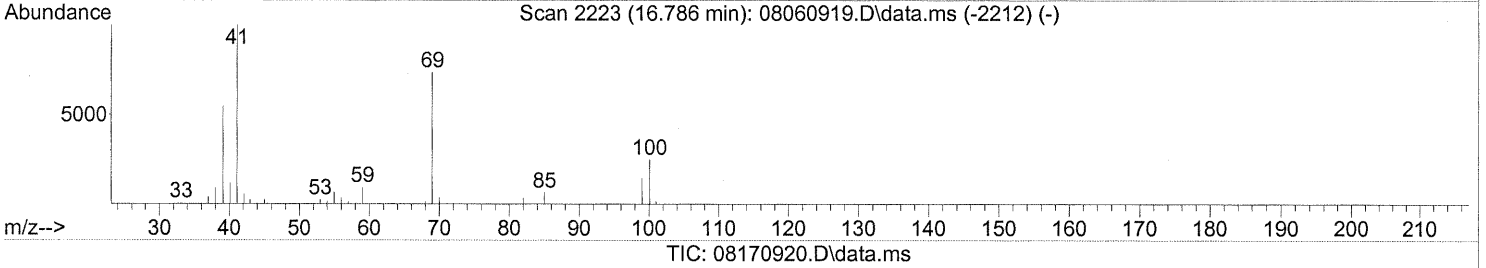
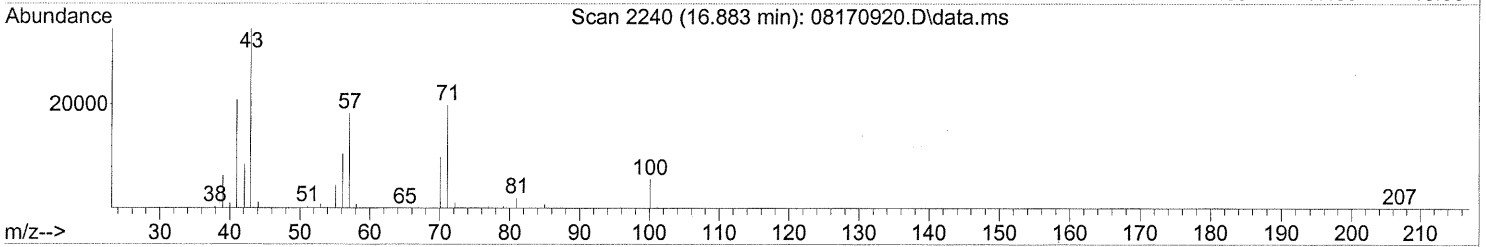
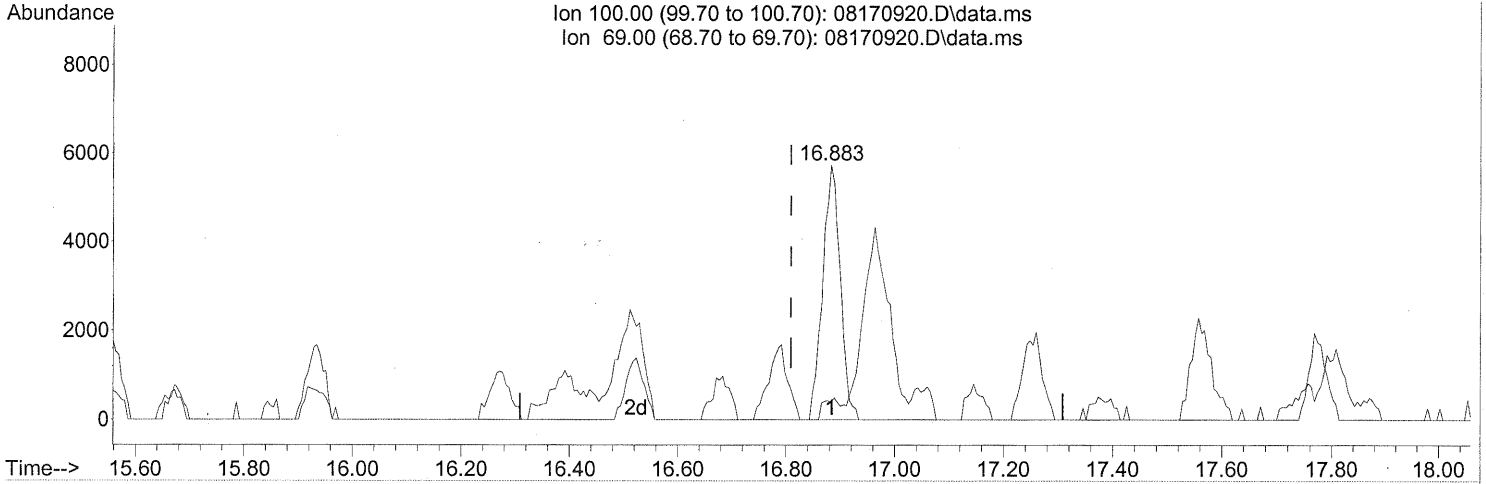
FP U 8/20/09

— 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.883min (+0.074) 3.34ng

FP LH 8/20/09

response 12882

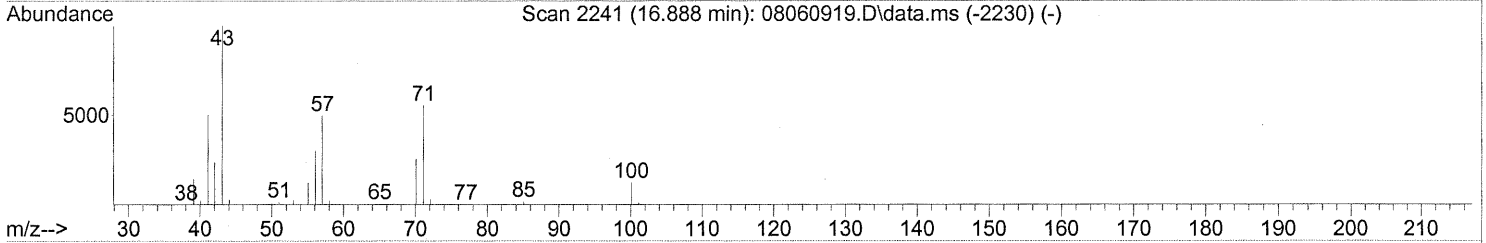
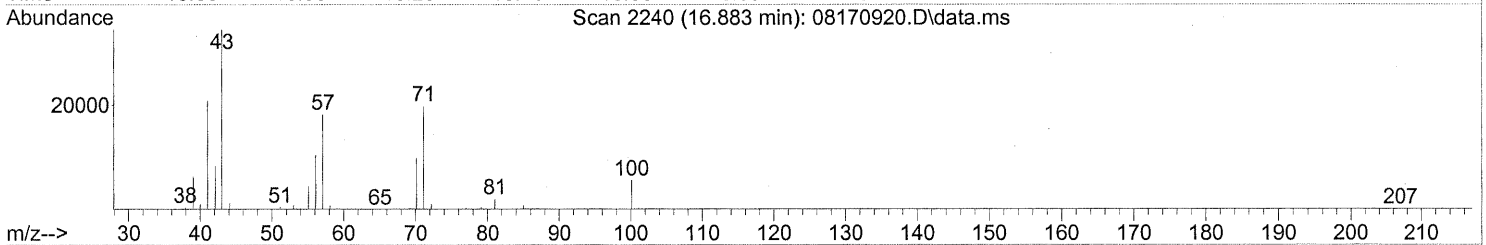
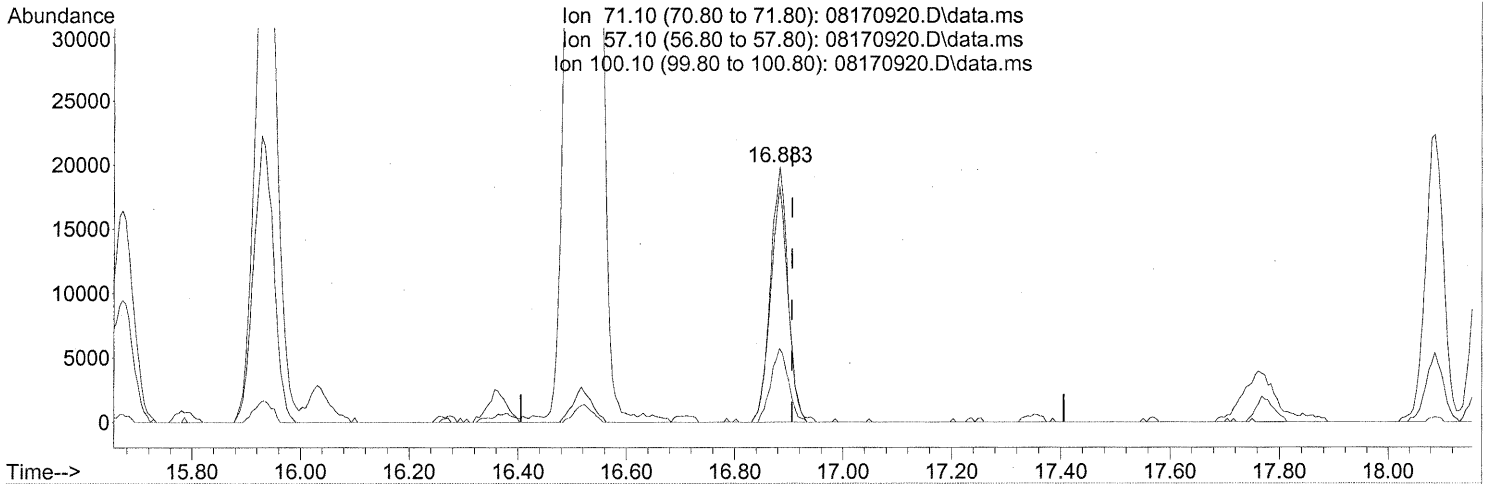
Ion	Exp%	Act%
100.00	100	100
69.00	294.80	9.08#
0.00	0.00	0.00
0.00	0.00	0.00

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



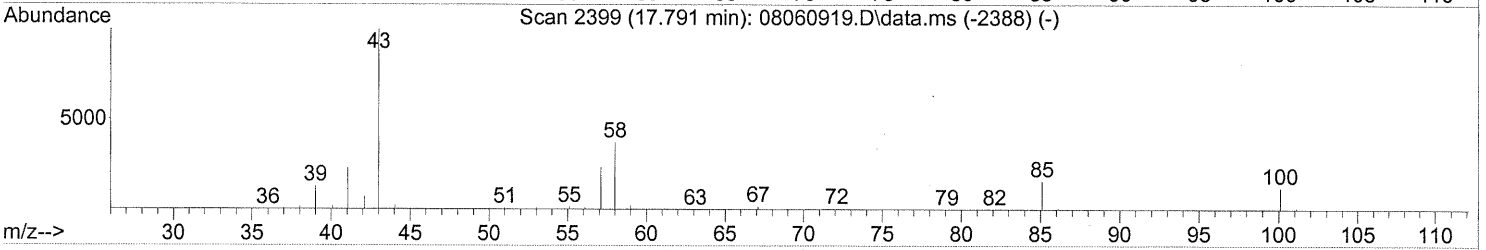
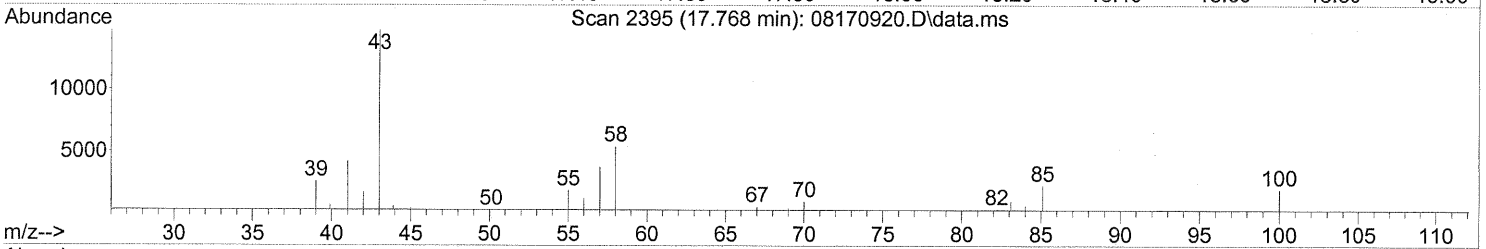
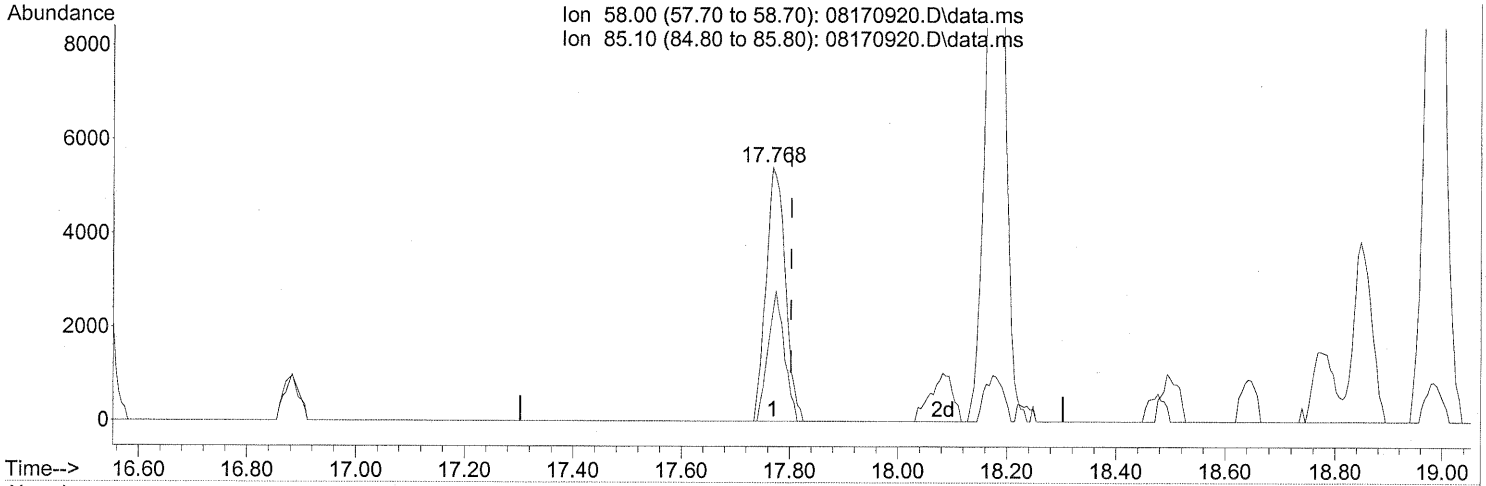
(51) n-Heptane (T)
 16.883min (-0.023) 3.96ng
 response 44523

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	92.32
100.10	26.40	28.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170920.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.768min (-0.034) 1.34ng

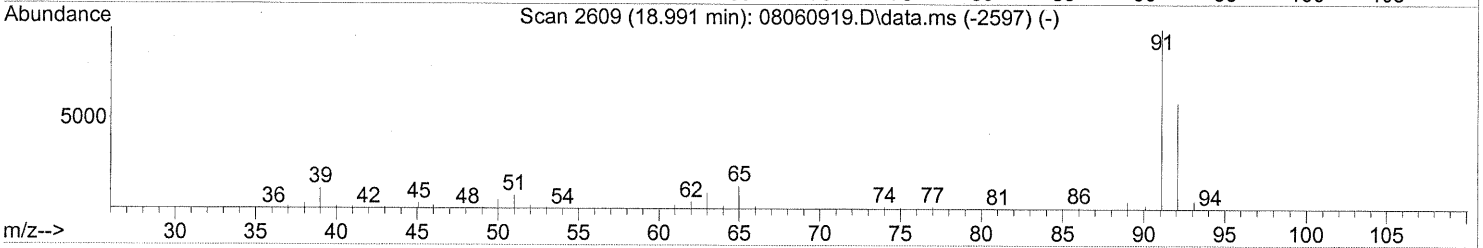
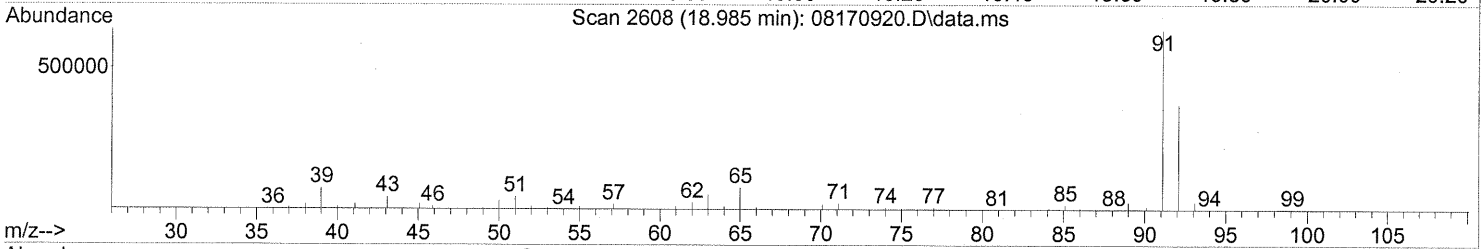
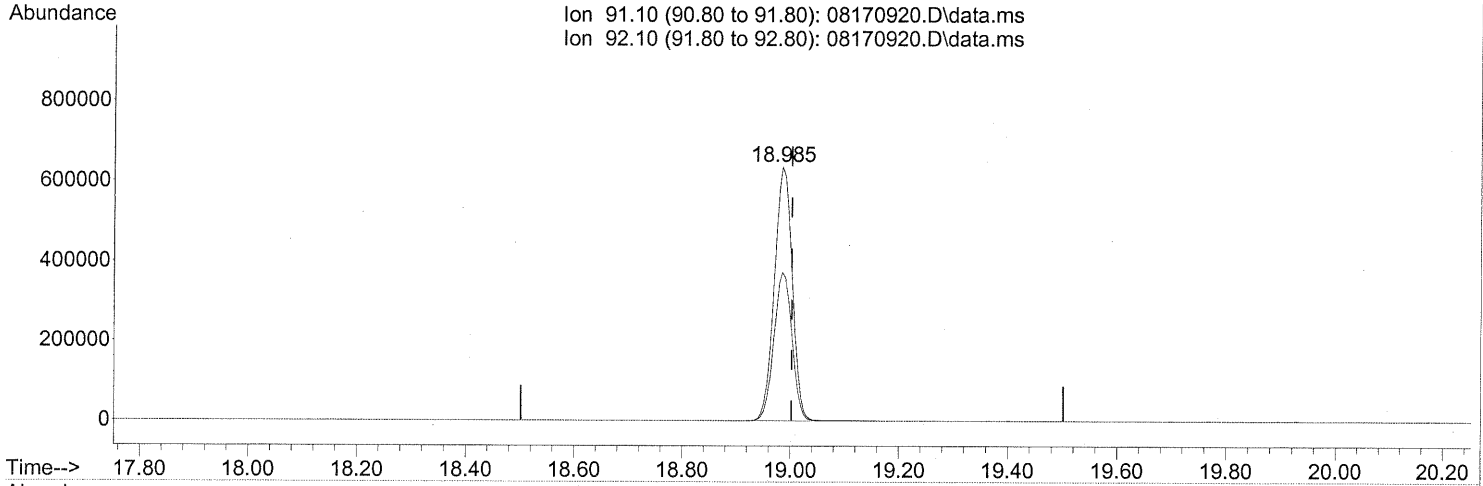
response 13487

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	43.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170920.D\data.ms

(58) Toluene (T)

18.985min (-0.017) 37.09ng

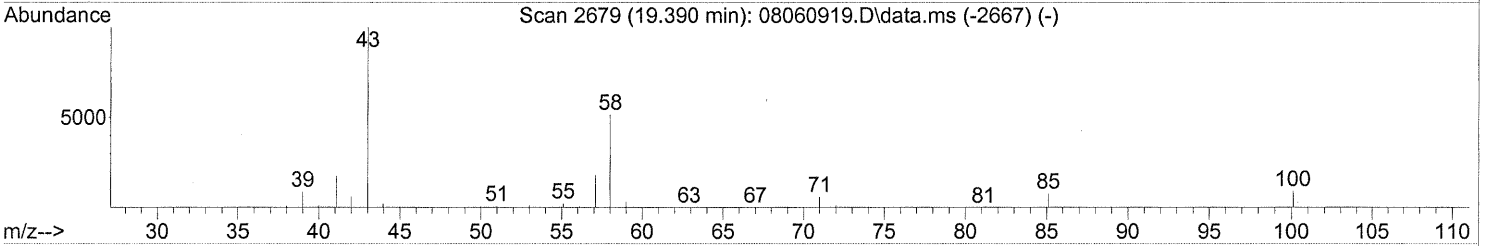
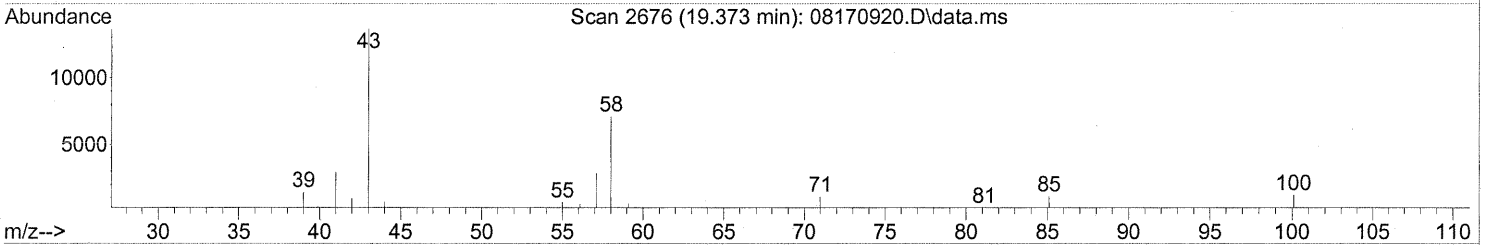
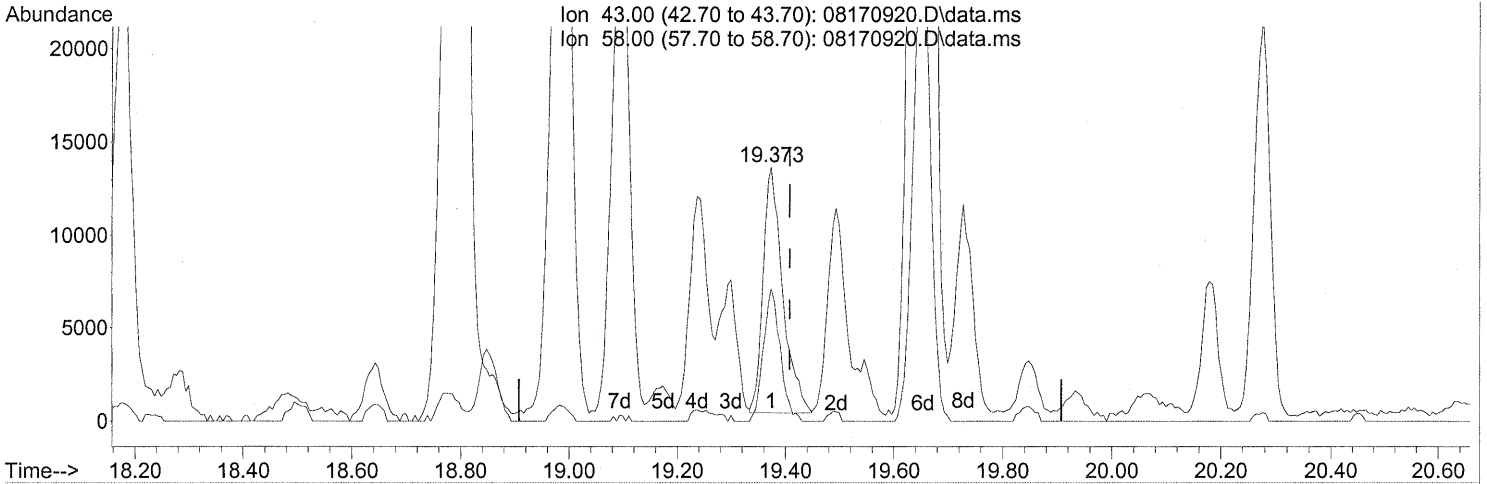
response 1459571

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170920.D\data.ms

(59) 2-Hexanone (T)

19.373min (-0.034) 1.28ng

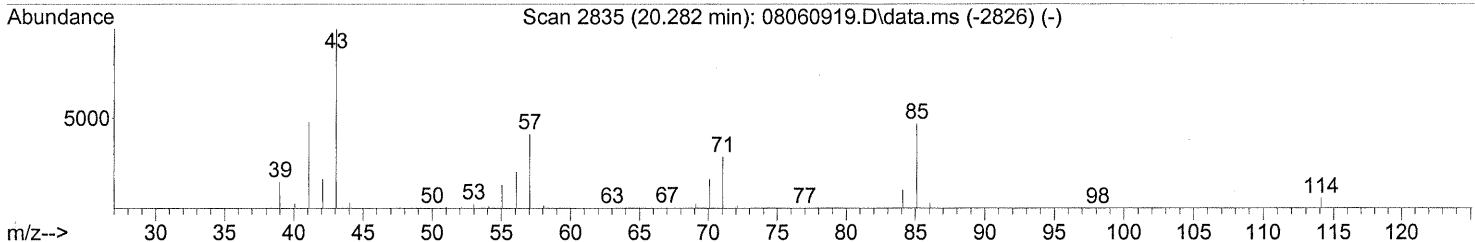
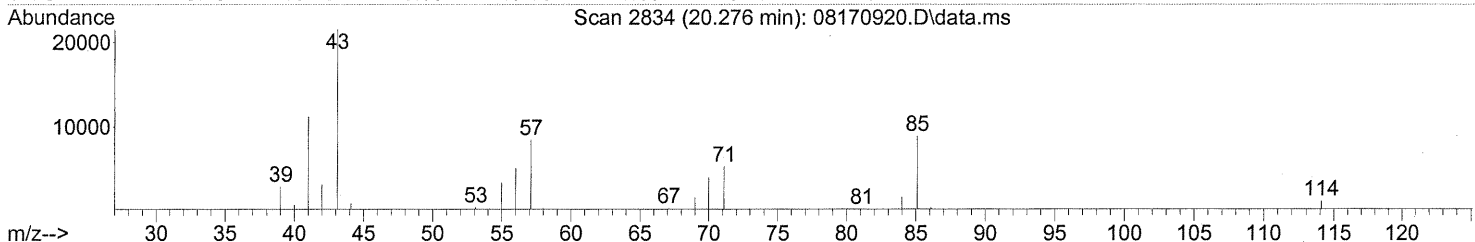
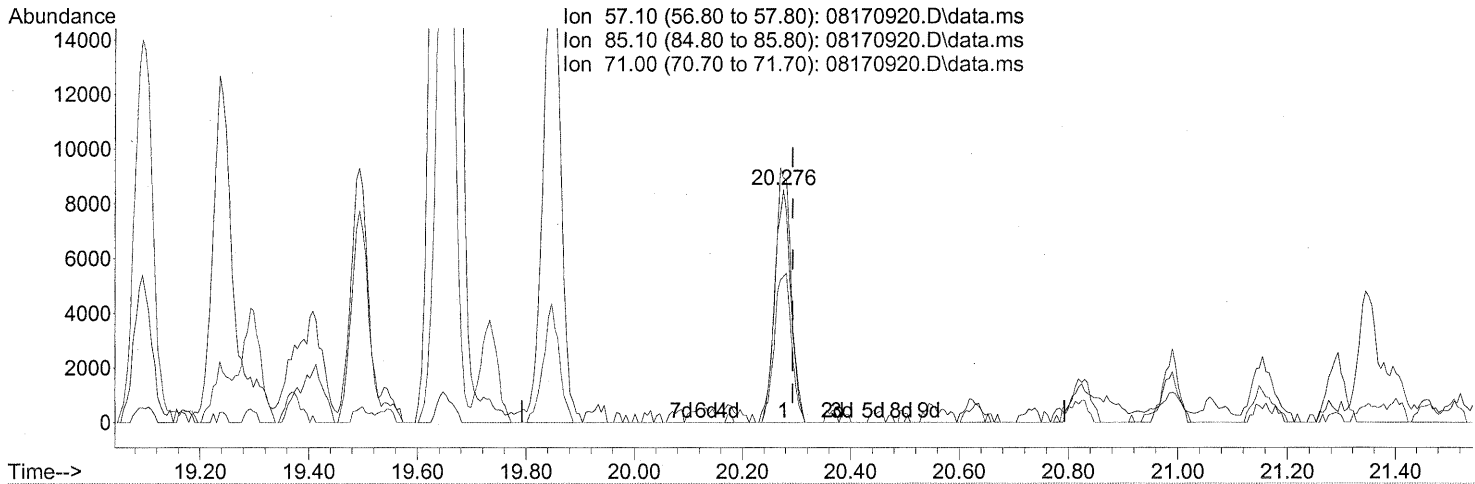
response 33547

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	46.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170920.D\data.ms

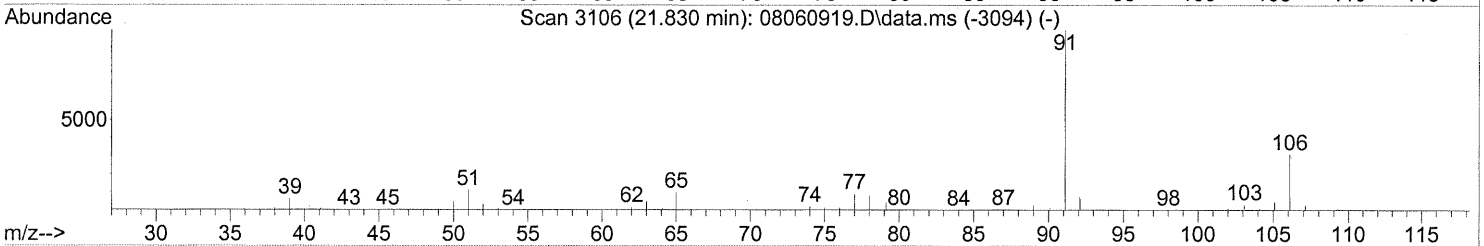
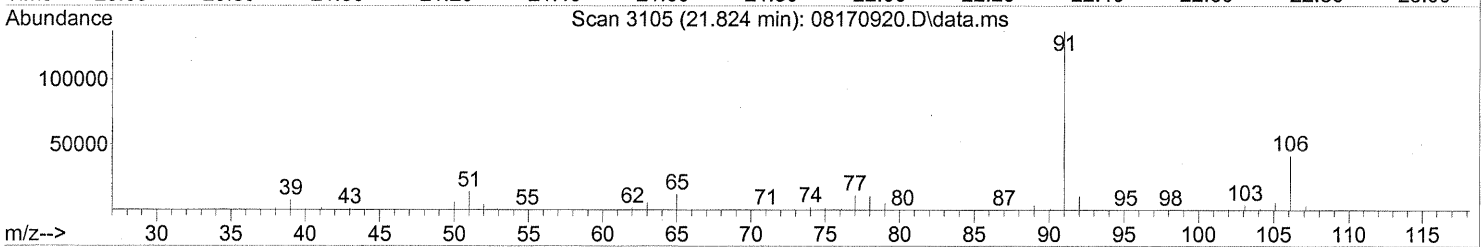
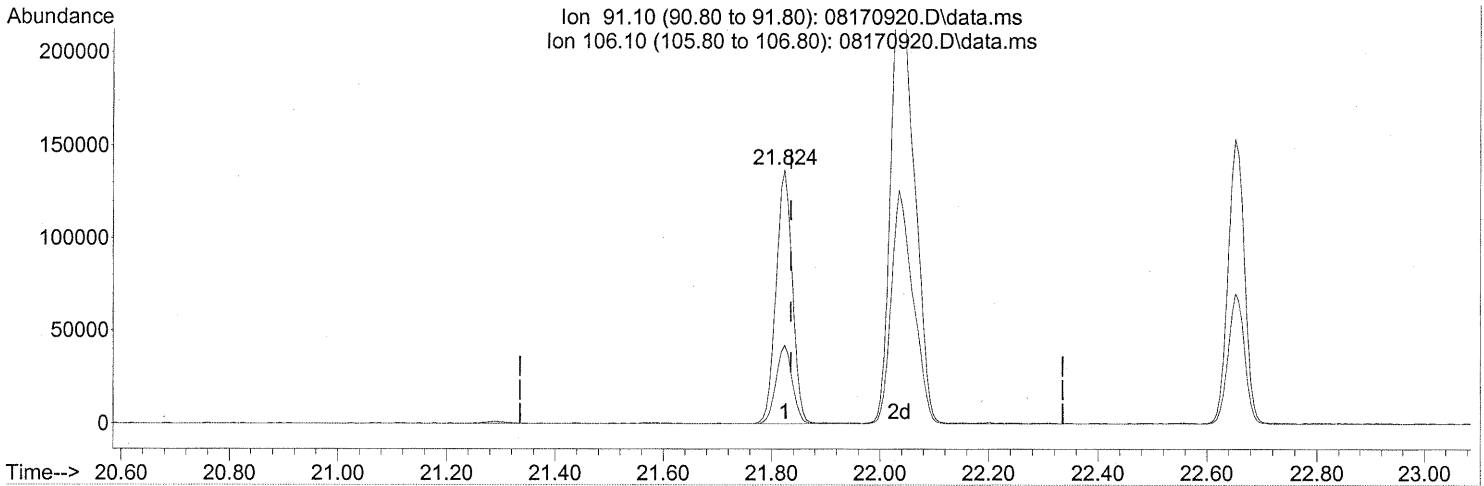
(63) n-Octane (T)
 20.276min (-0.017) 1.86ng
 response 17668

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	109.99
71.00	68.10	68.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170920.D\data.ms

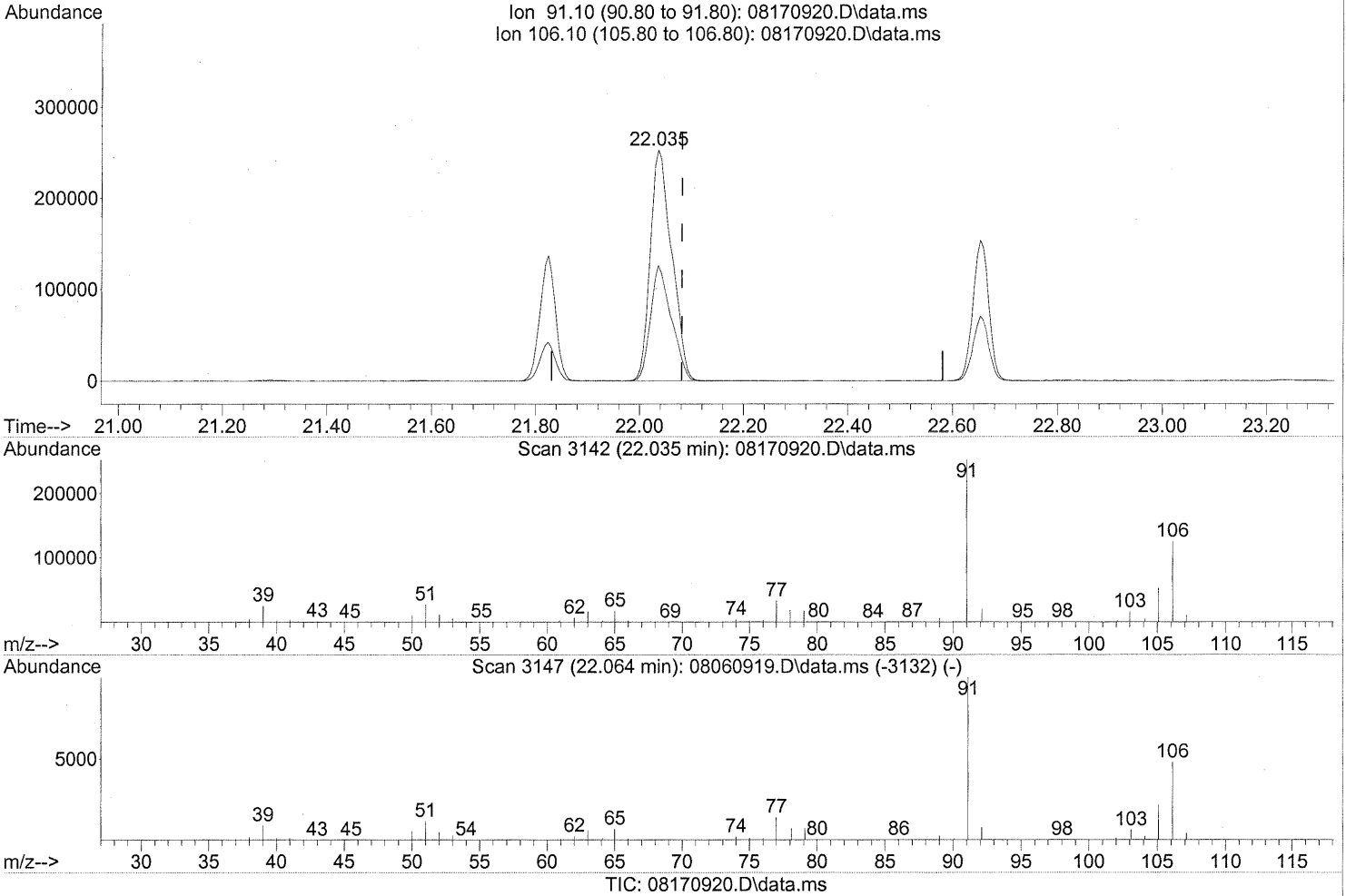
(66) Ethylbenzene (T)
 21.824min (-0.011) 6.32ng
 response 284307

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 19.94ng

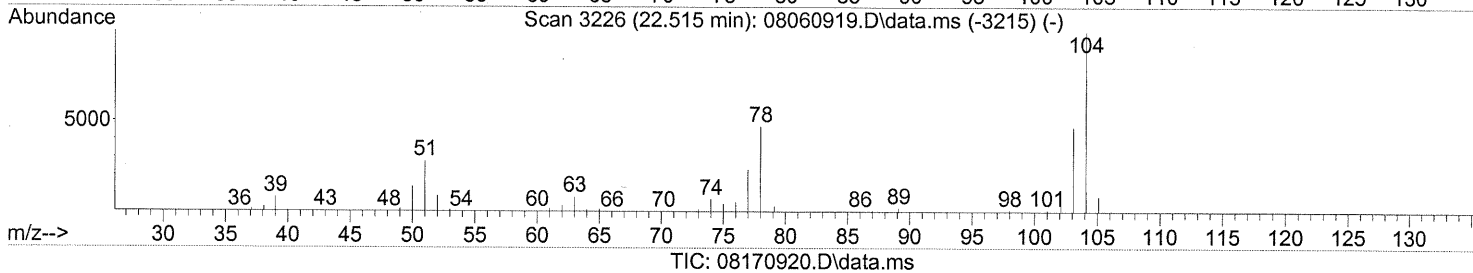
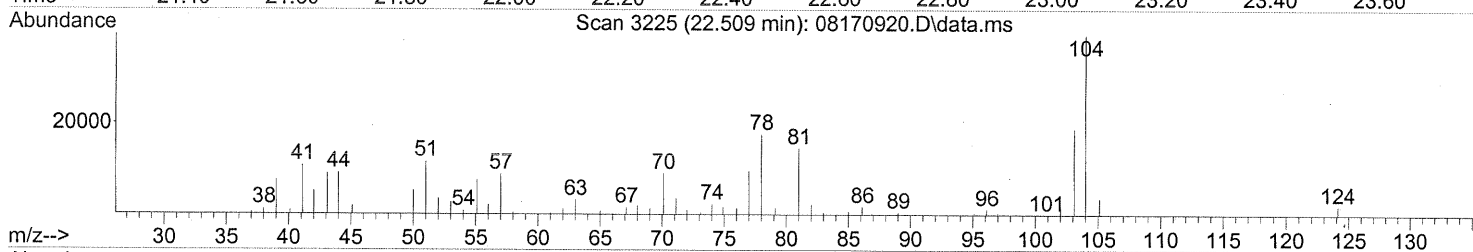
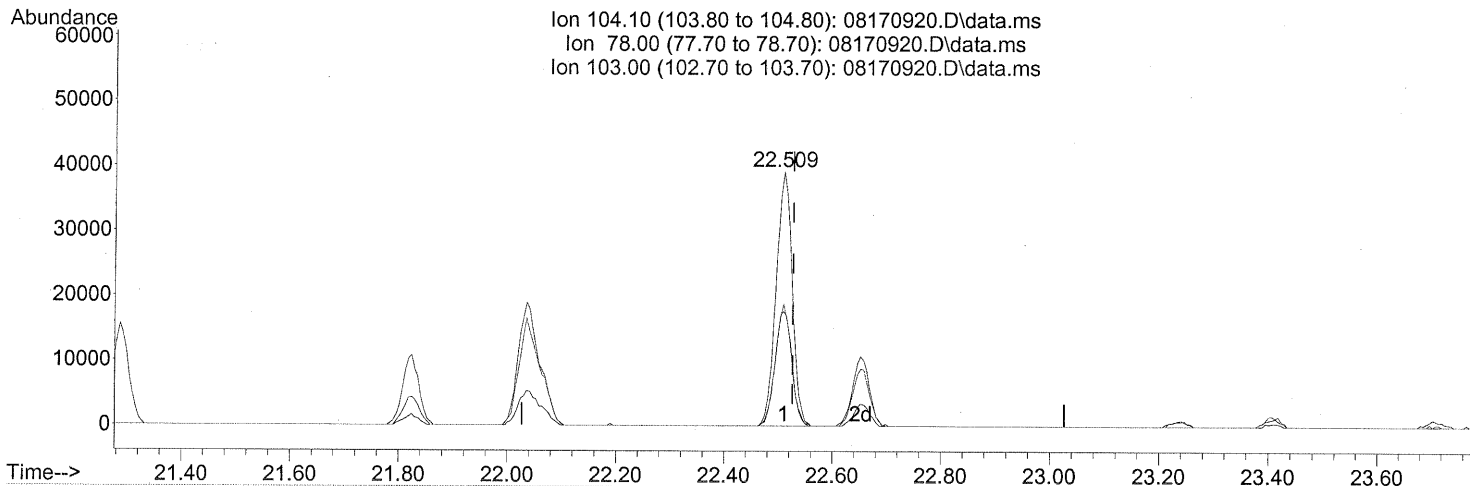
response 725773

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



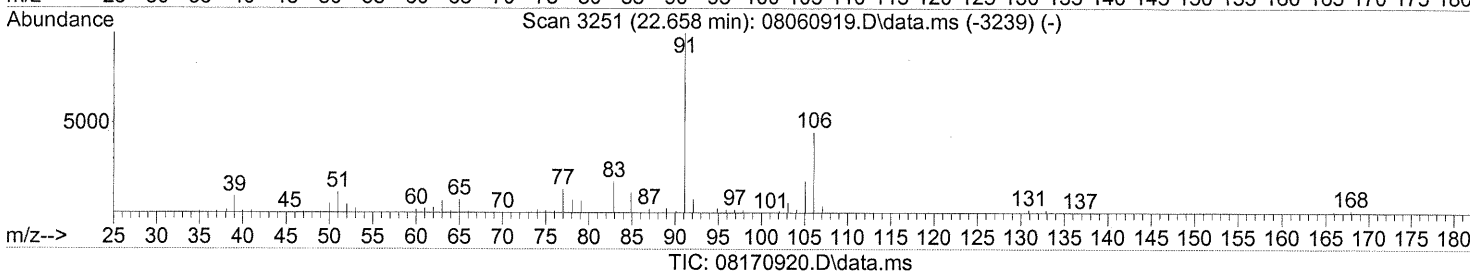
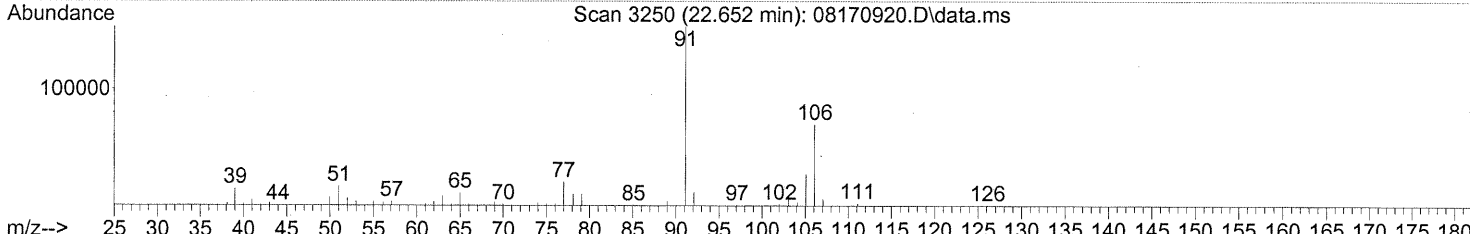
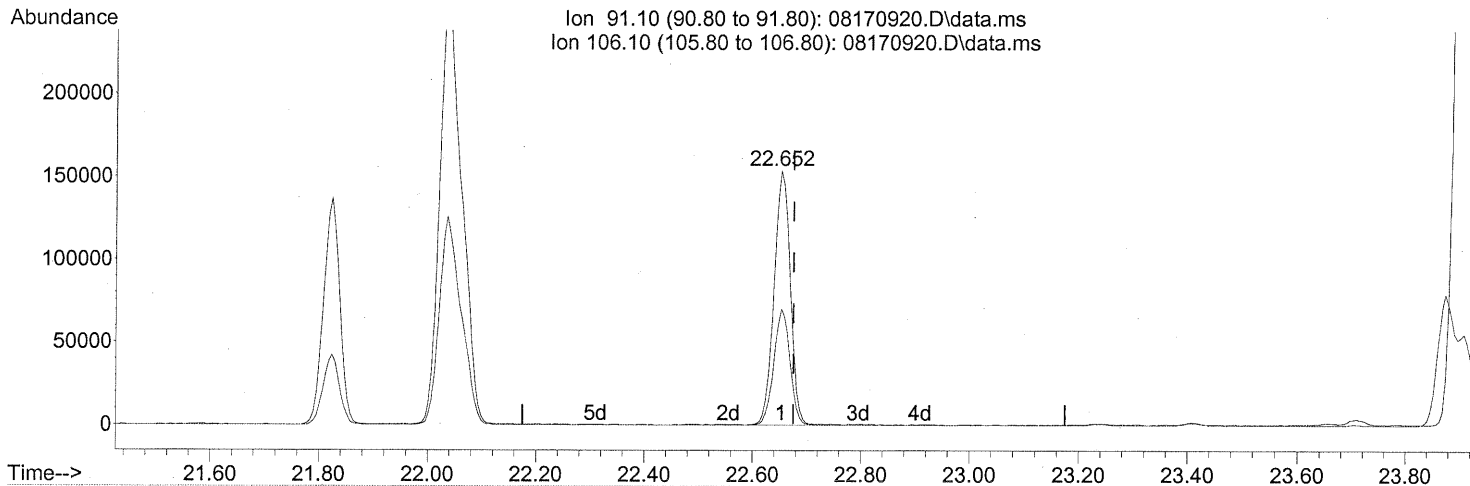
(69) Styrene (T)
 22.509min (-0.017) 3.09ng
 response 81326

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	47.31
103.00	46.20	47.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 8.89ng

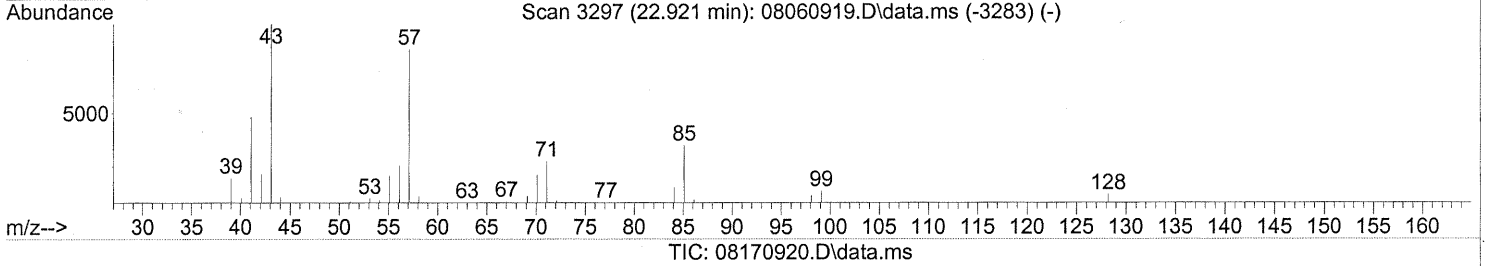
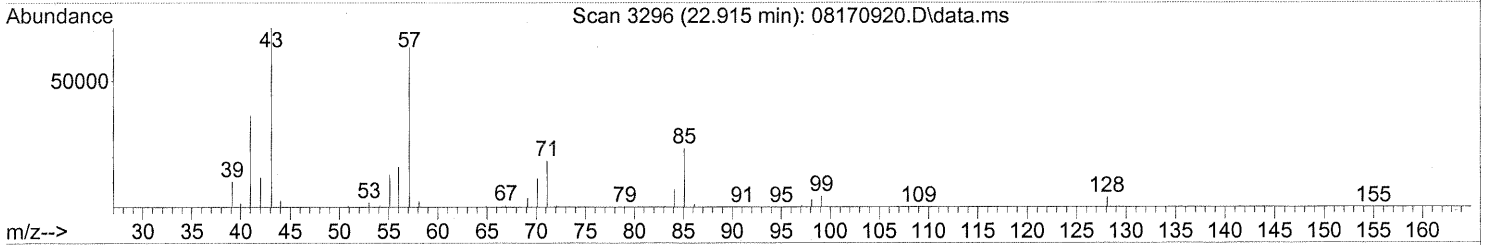
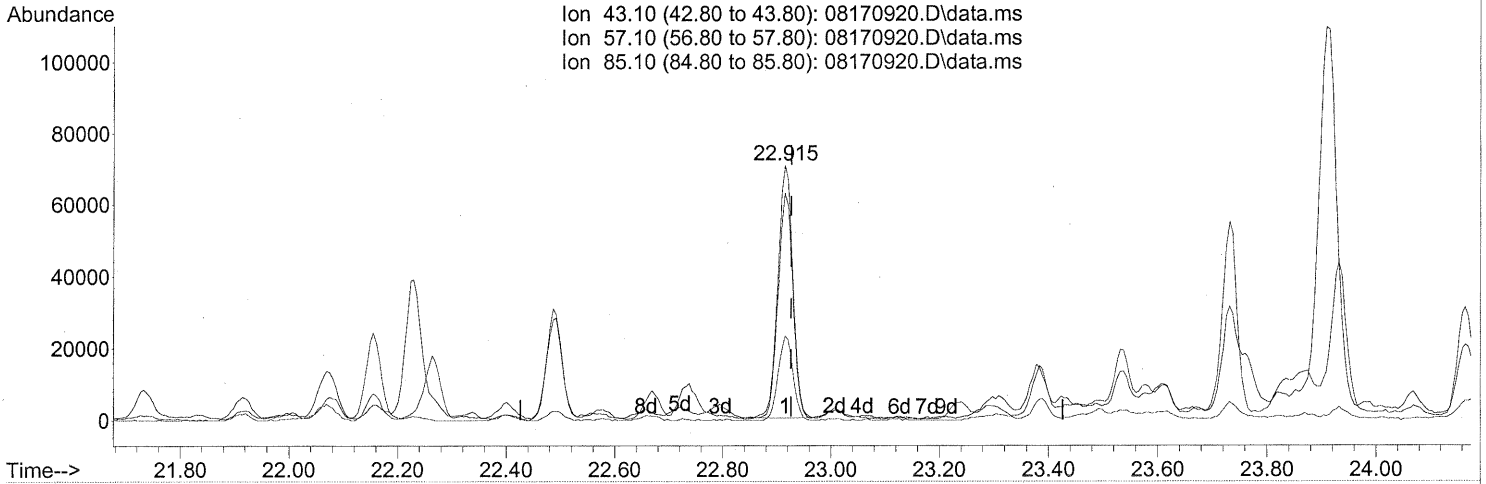
response 324277

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



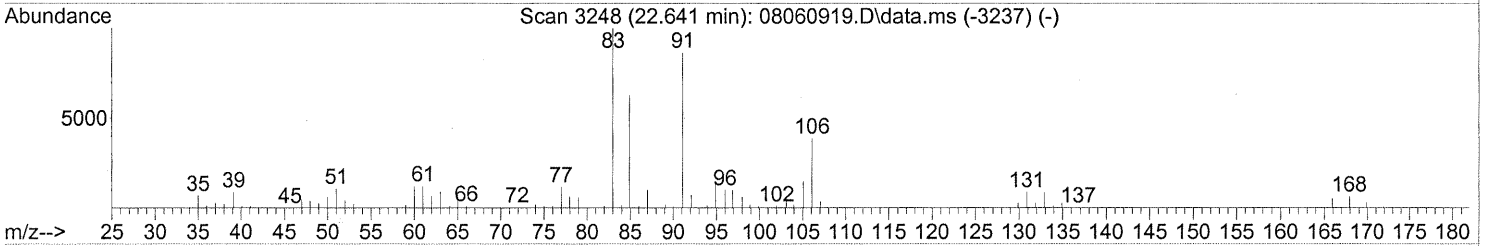
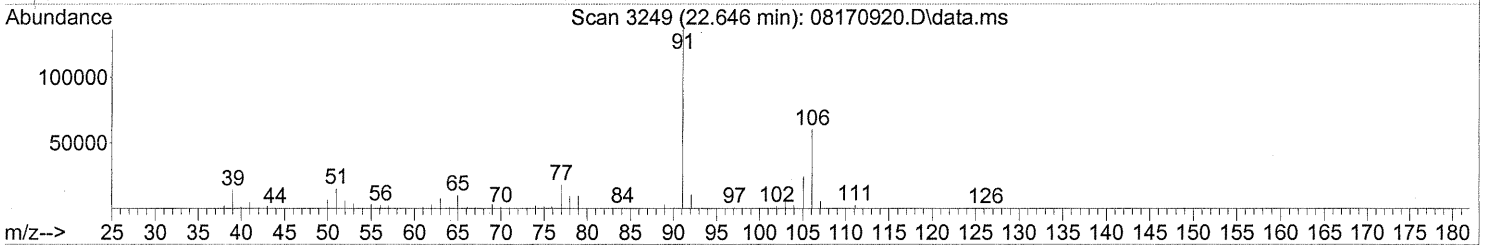
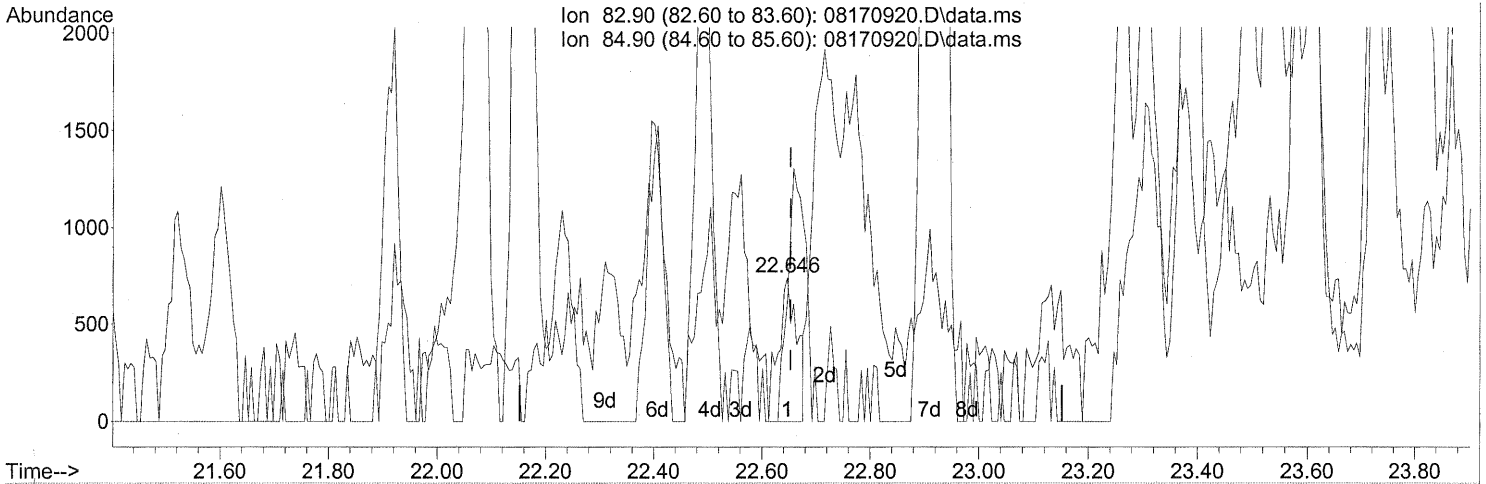
(71) n-Nonane (T)
 22.915min (-0.011) 5.59ng
 response 135636

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	88.28
85.10	30.40	32.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(72) 1,1,2,2-Tetrachloroethane (T)

22.646min (-0.006) 0.11ng

response 1771

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	170.07#
0.00	0.00	0.00
0.00	0.00	0.00

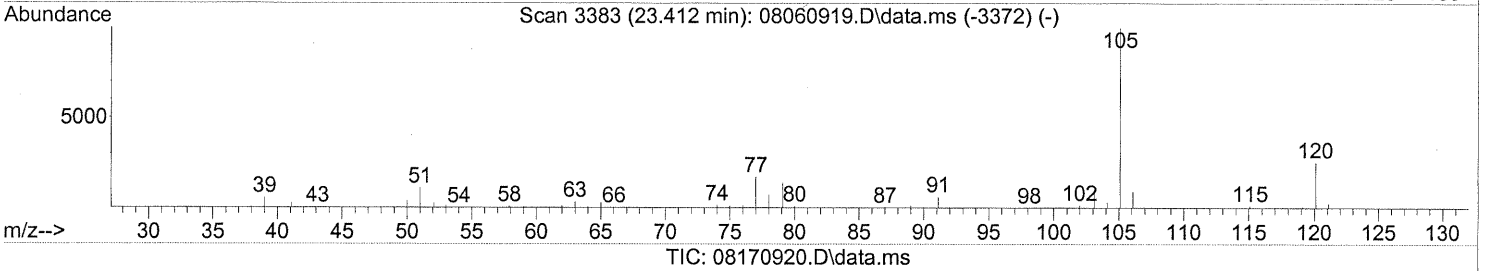
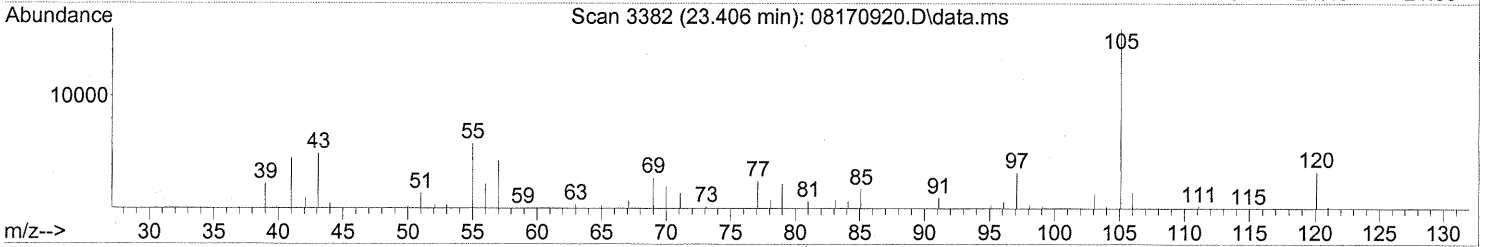
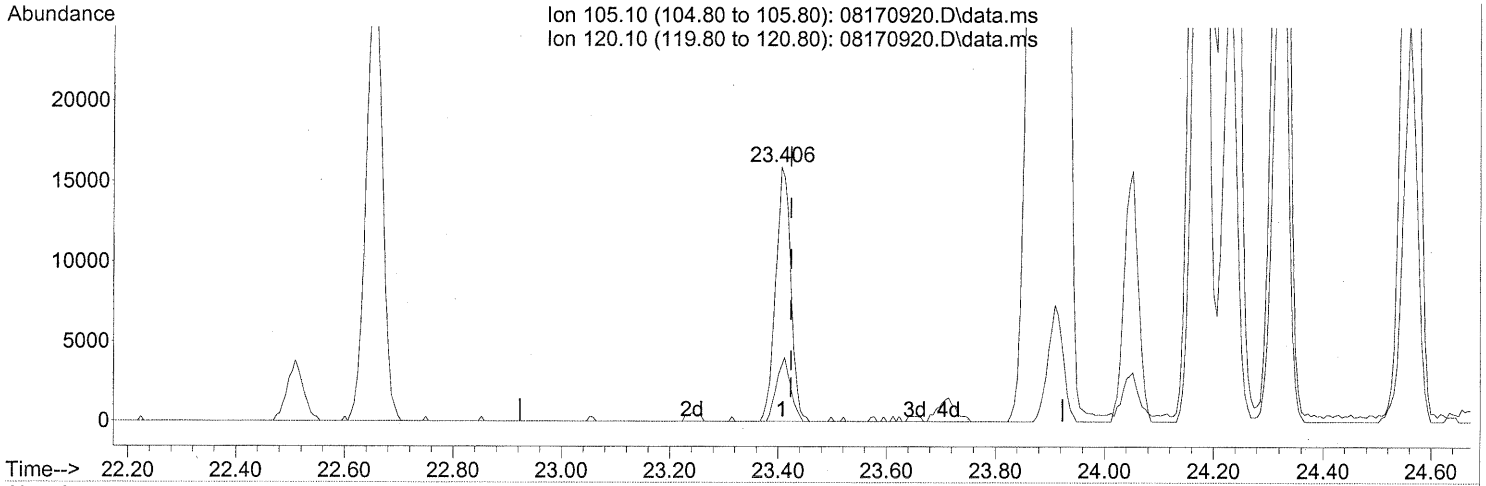
FP UN 8/20/09

— 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(74) Cumene (T)

23.406min (-0.017) 0.67ng

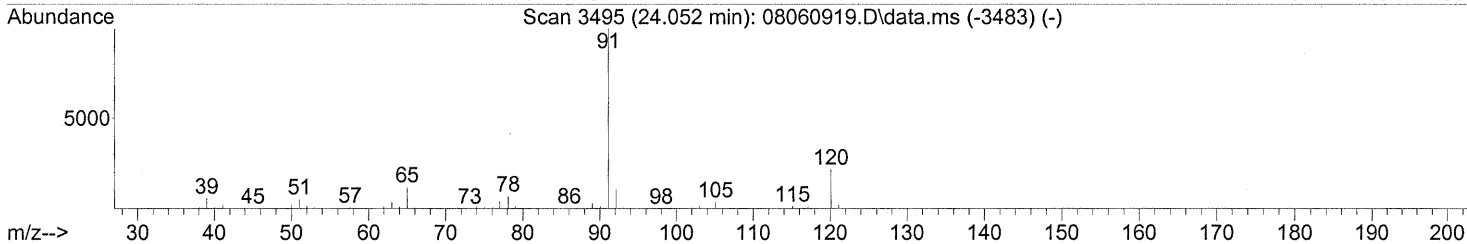
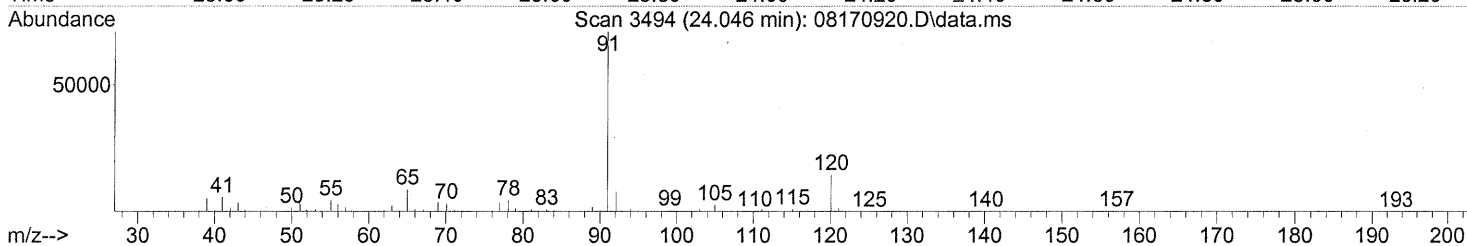
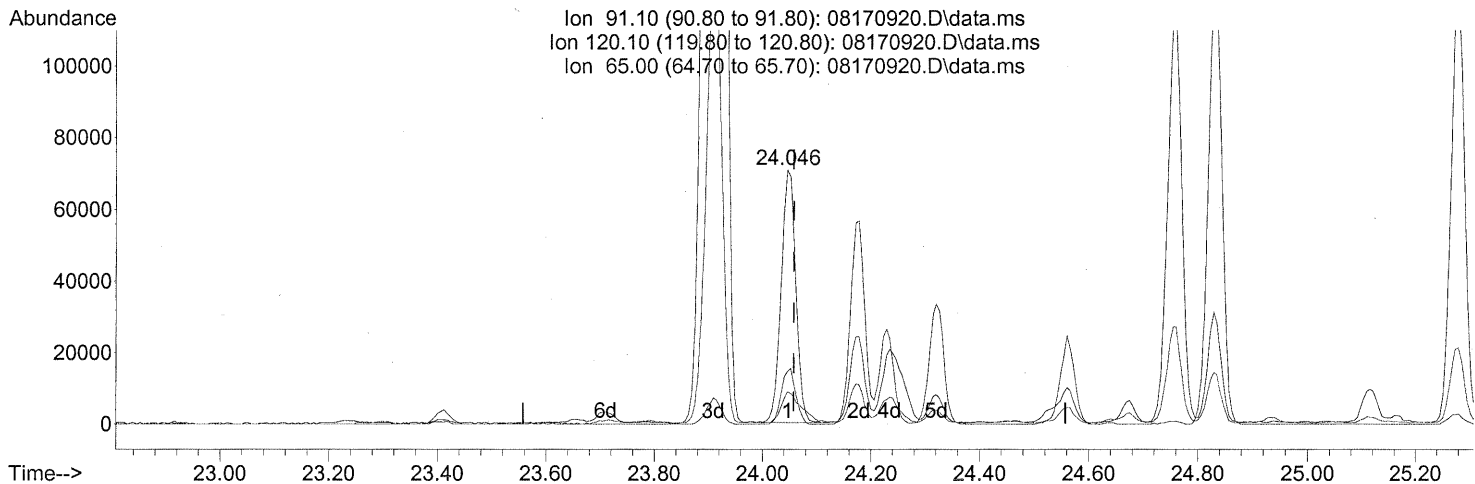
response 30939

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	23.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170920.D\data.ms

(76) n-Propylbenzene (T)

24.046min (-0.011) 2.28ng

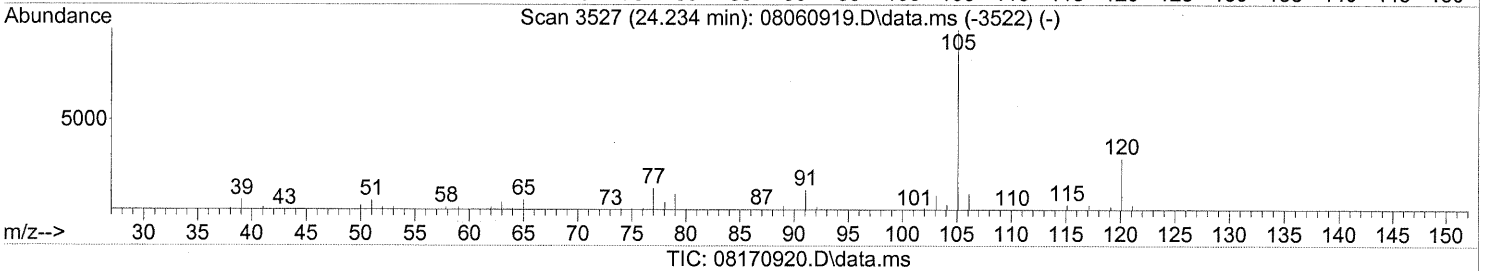
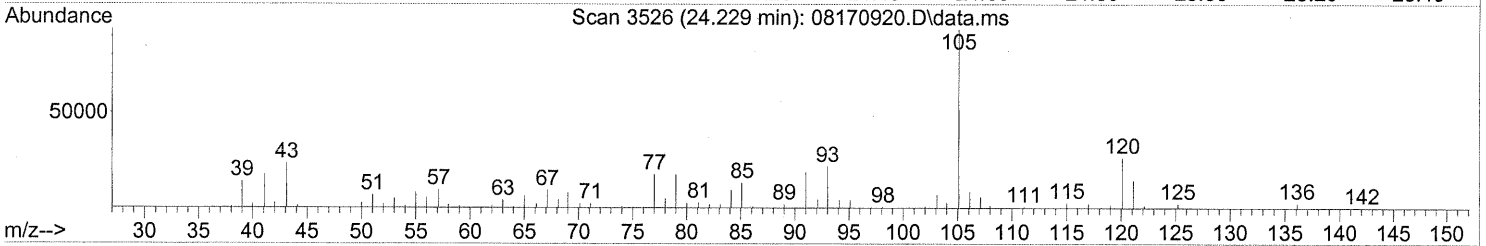
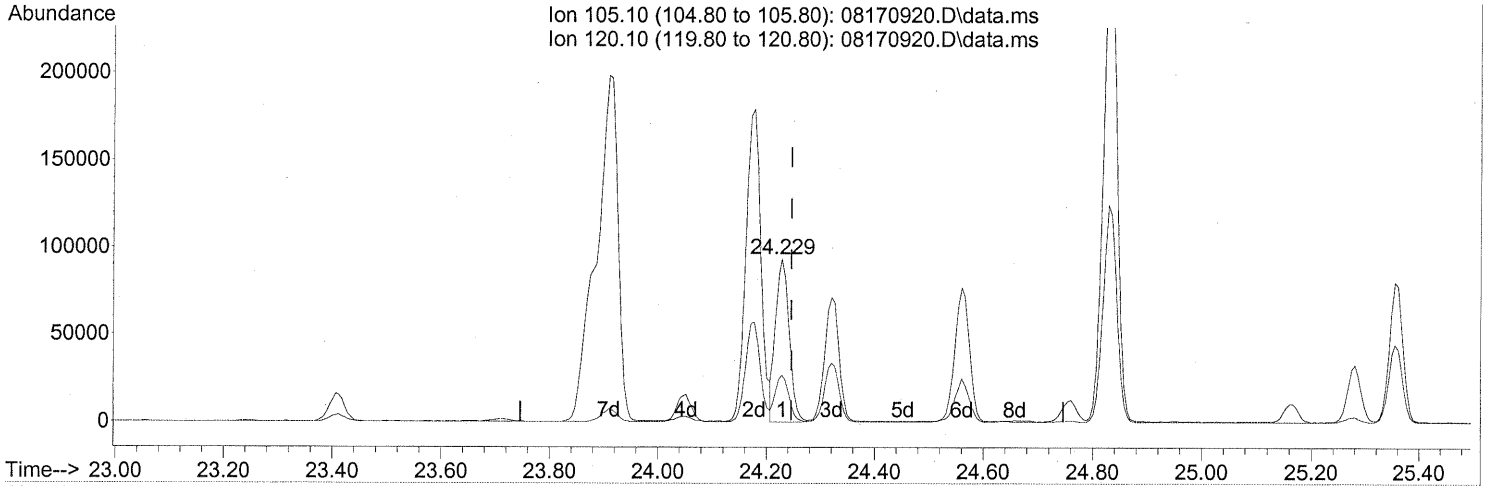
response 131966

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	21.72
65.00	12.00	17.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



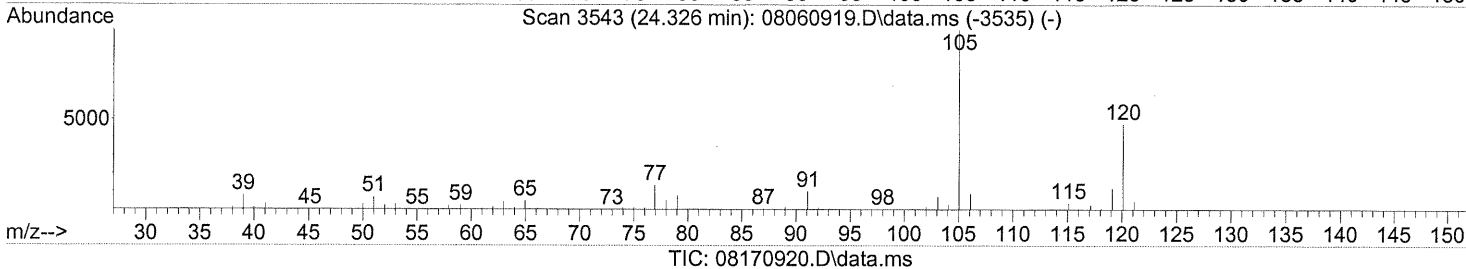
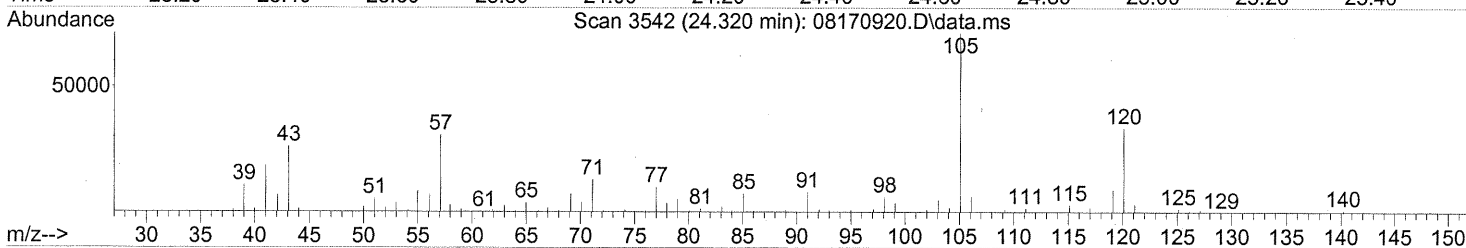
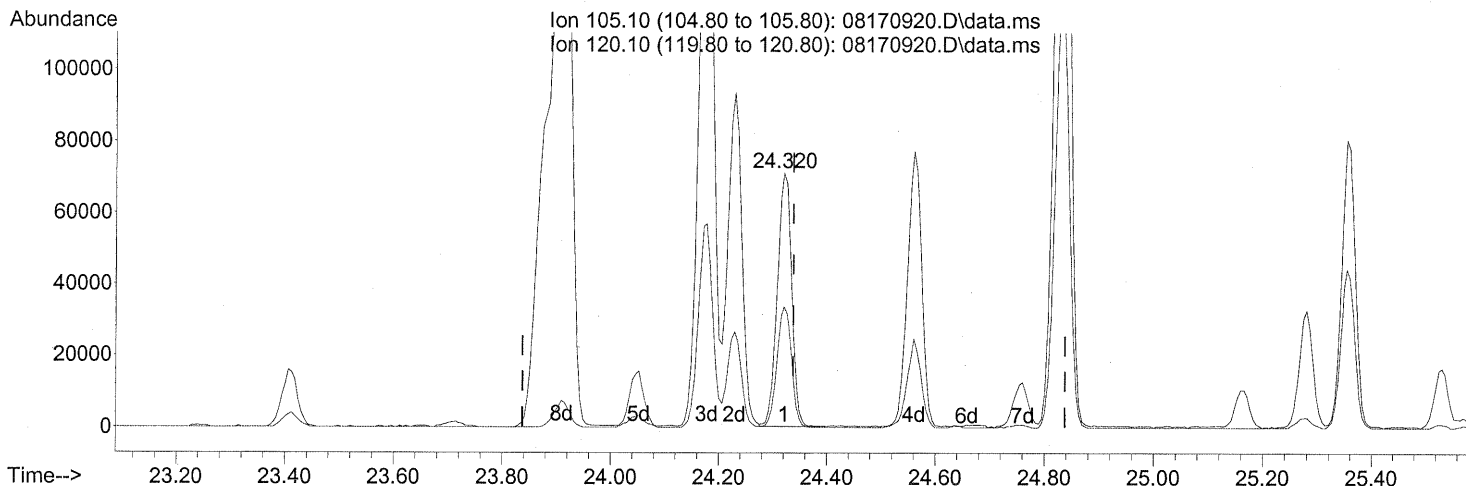
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 3.85ng
 response 164480

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	28.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 3.63ng

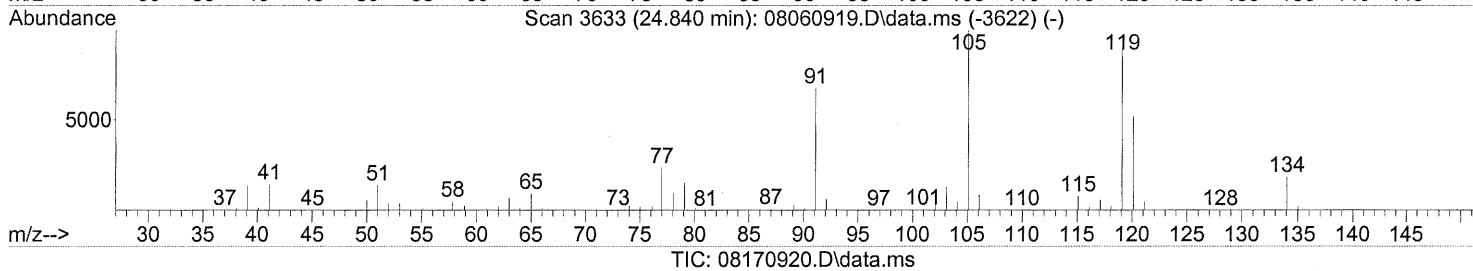
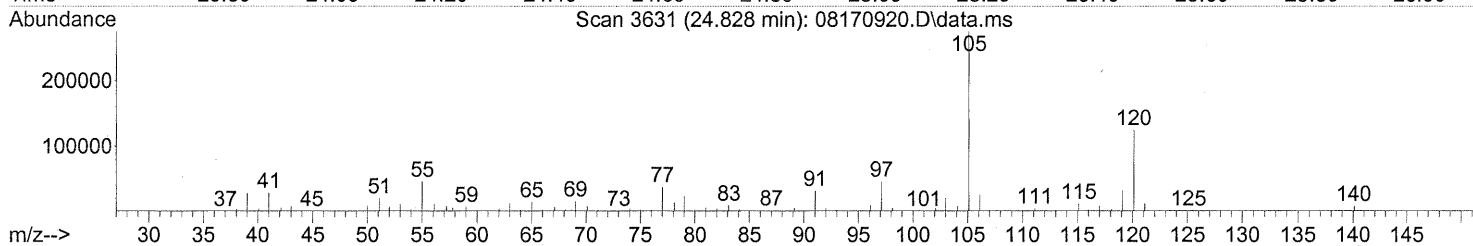
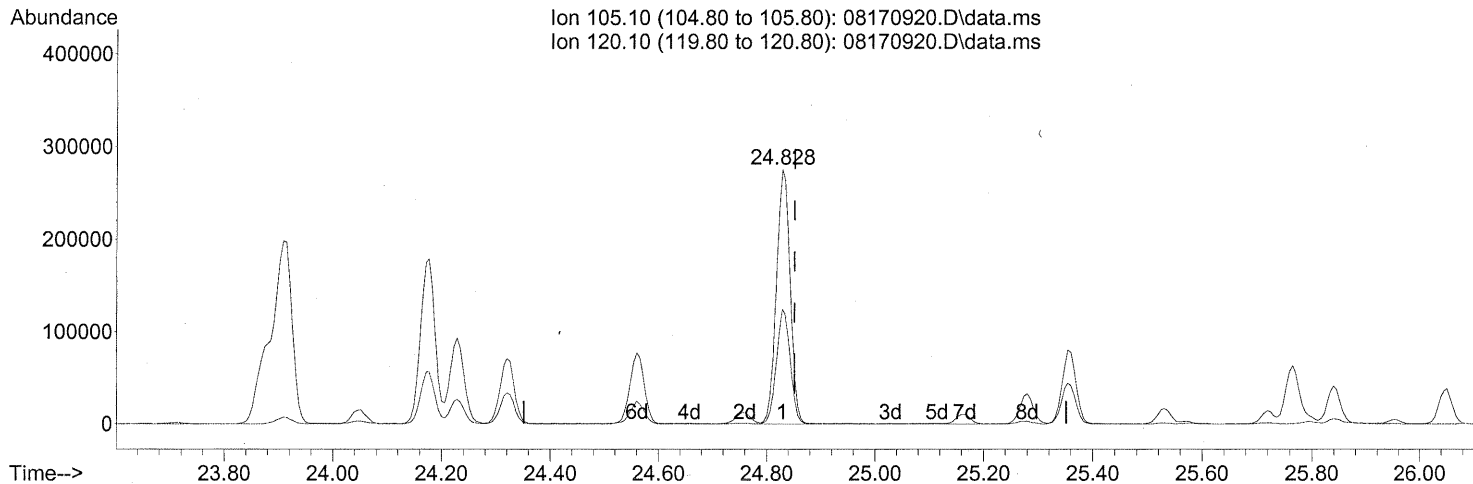
response 130607

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	47.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 13.39ng

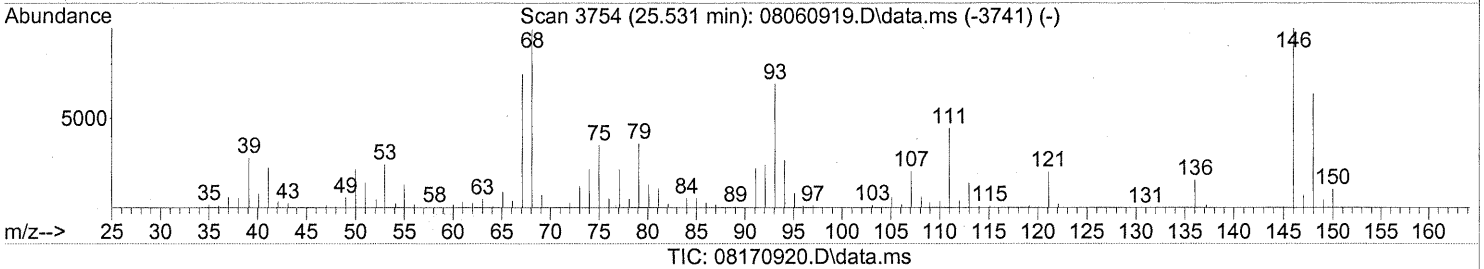
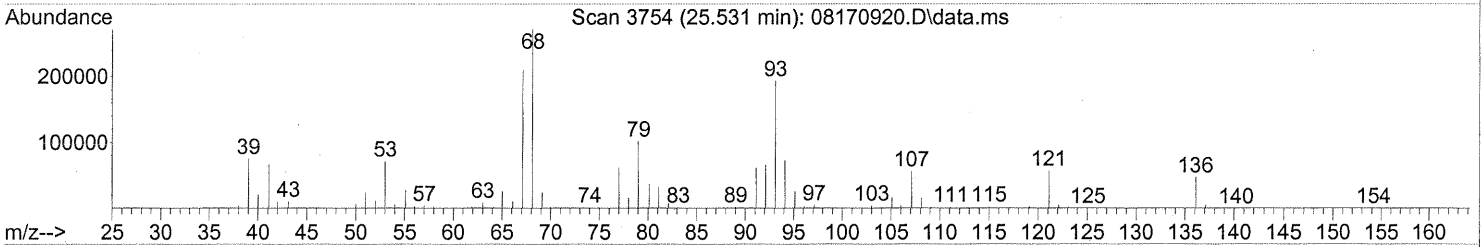
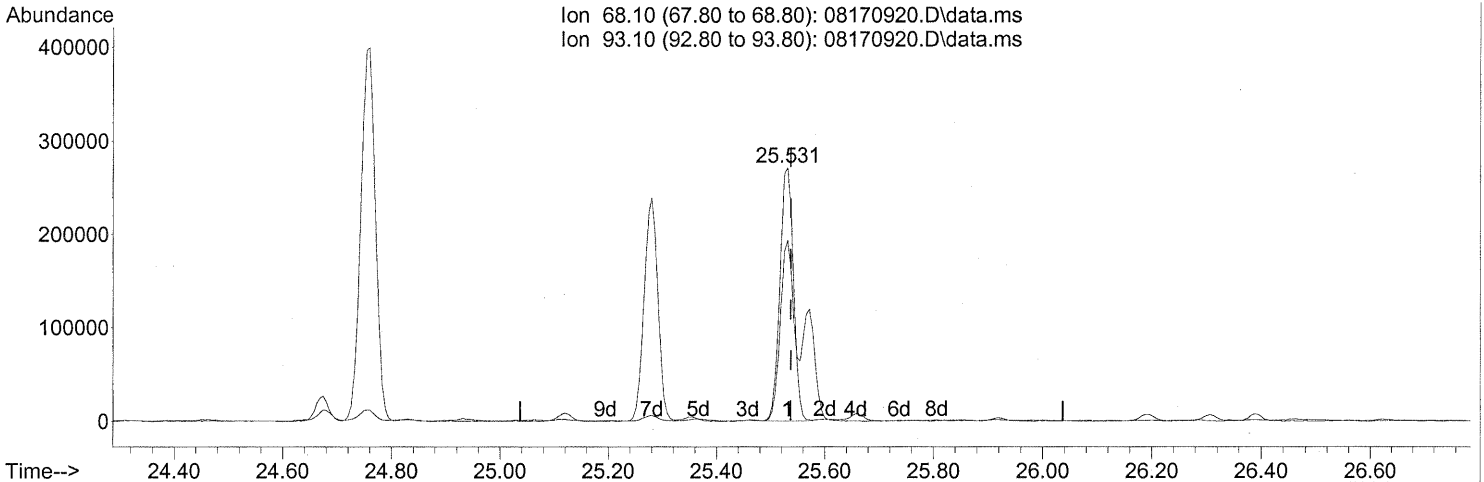
response 491732

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



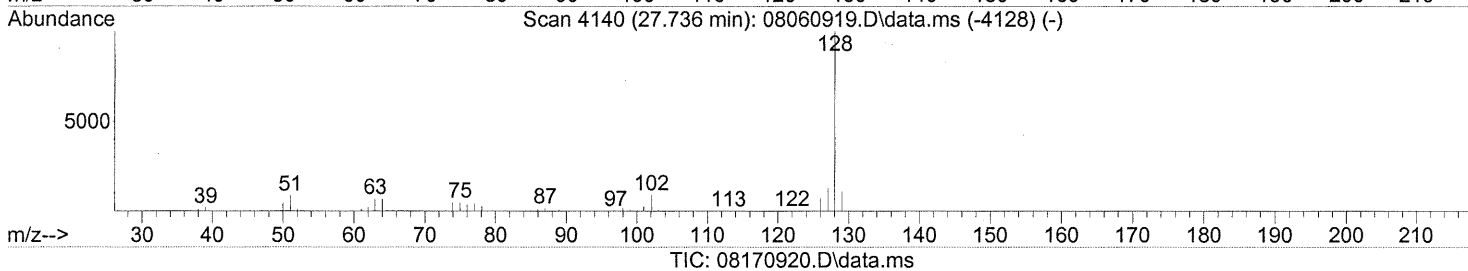
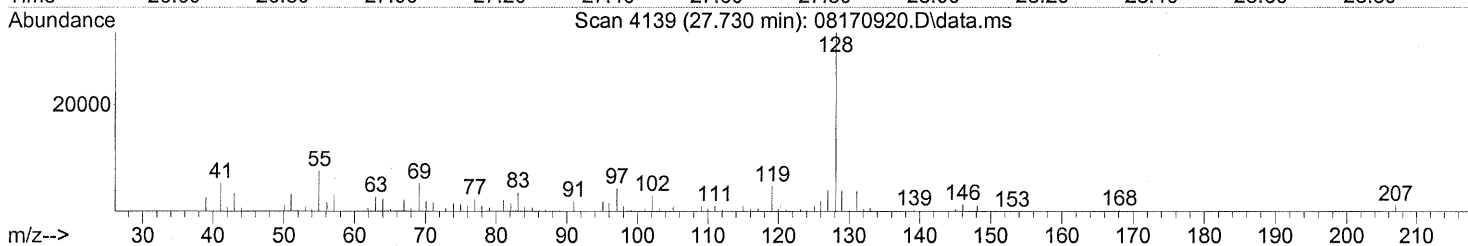
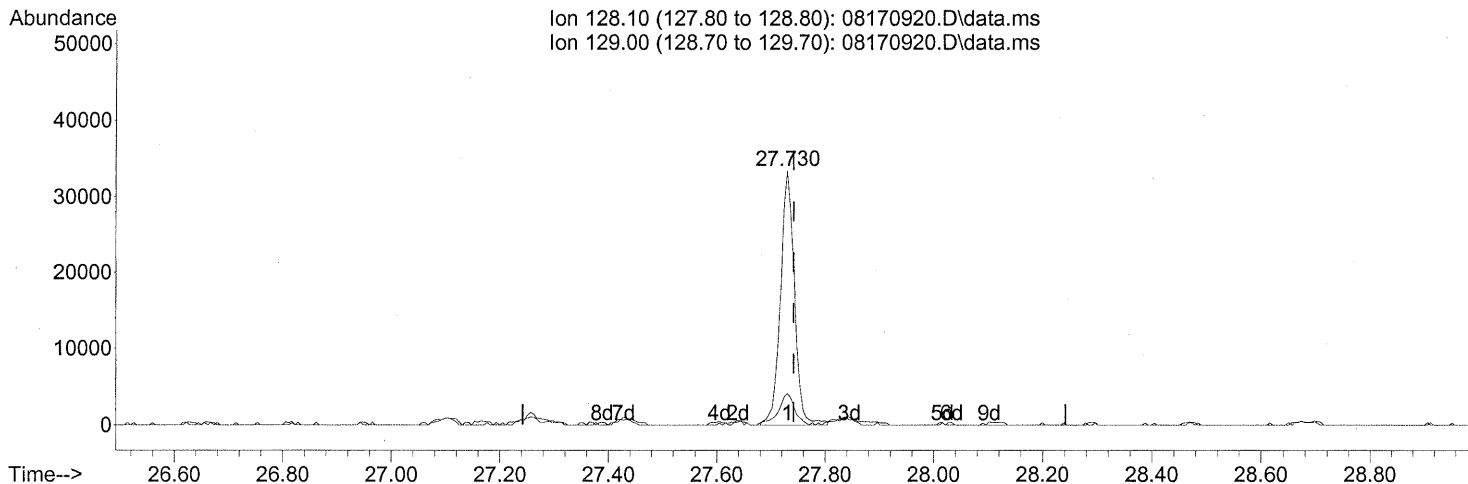
(91) d-Limonene (T)
 25.531min (-0.006) 29.99ng
 response 468199

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	74.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170920.D
 Acq On : 17 Aug 2009 18:41
 Operator : WA
 Sample : P0902721-013 (1000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 17 20:16:20 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

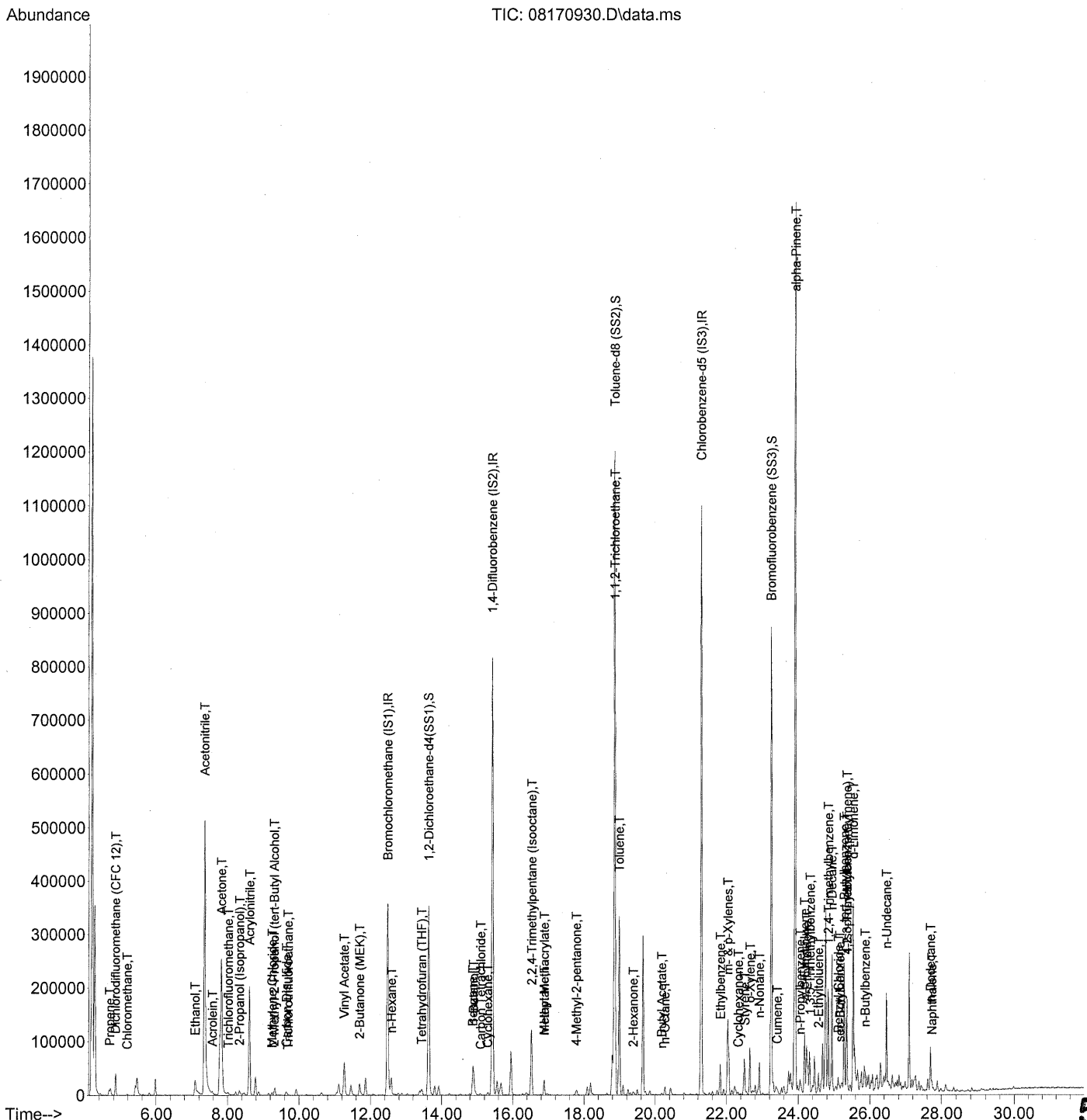
27.730min (-0.011) 1.19ng

response 59373

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	14.42
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170930.D
 Acq On : 18 Aug 2009 1:34
 Operator : WA
 Sample : P0902721-013 dil (2000 ~~μ~~ mL) *8/21/09*
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 06:49:05 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170930.D
 Acq On : 18 Aug 2009 1:34
 Operator : WA
 Sample : P0902721-013 dil (2000mL)
 Misc : Env. Health & Engineering 100202 ✓
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 06:49:05 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/20/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	181351	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	924523	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	452027	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	365611	23.195	ng	-0.03
Spiked Amount	25.000		Recovery	=	92.80%	✓
57) Toluene-d8 (SS2)	18.85	98	1016327	25.732	ng	-0.01
Spiked Amount	25.000		Recovery	=	102.92%	✓
73) Bromofluorobenzene (SS3)	23.24	174	280545	26.934	ng	0.00
Spiked Amount	25.000		Recovery	=	107.72%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.69	42	4588	0.369	ng	# 1
3) Dichlorodifluoromethan...	4.85	85	8197	0.403	ng	97
4) Chloromethane	5.18	50	3344	0.245	ng	86
5) 1,2-Dichloro-1,1,2,2-t...	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	6.37	94	102	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.09	45	75350	9.552	ng	100
11) Acetonitrile	7.35	41	843946	36.532	ng	99
12) Acrolein	7.57	56	6671	1.111	ng	94
13) Acetone	7.82	58	148745	19.985	ng	94
14) Trichlorofluoromethane	8.02	101	3383	0.184	ng	93
15) 2-Propanol (Isopropanol)	8.33	45	24084	0.823	ng	99
16) Acrylonitrile	8.62	53	3094	0.230	ng	# 23
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	5311	0.205	ng	# 1
19) Methylene Chloride	9.25	84	3215	0.322	ng	# 80
20) 3-Chloro-1-propene (Al...	9.38	41	196	N.D.		
21) Trichlorotrifluoroethane	9.69	151	451	0.067	ng	# 69
22) Carbon Disulfide	9.64	76	15860	0.450	ng	95
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	11.26	86	3855	2.545	ng	# 1
27) 2-Butanone (MEK)	11.70	72	10467	1.558	ng	96
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.58	57	18722	1.045	ng	10550

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170930.D
 Acq On : 18 Aug 2009 1:34
 Operator : WA
 Sample : P0902721-013 dil (2000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 06:49:05 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.67	83	417	N.D.		
34) Tetrahydrofuran (THF)	13.43	72	2526	0.353 ng	#	65
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	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	35899	2.992 ng		81
41) Benzene	14.87	78	32382	0.797 ng		100
42) Carbon Tetrachloride	15.09	117	983	0.076 ng		86
43) Cyclohexane	15.29	84	2599	0.175 ng		93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.40	83	132	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	145007	3.029 ng		99
50) Methyl Methacrylate	16.88	100	2285	0.611 ng	#	1
51) n-Heptane	16.88	71	8511	0.780 ng		99
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.78	58	2135	0.219 ng		91
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	88010	9.861 ng	#	6
58) Toluene	18.98	91	278283	7.169 ng		99
59) 2-Hexanone	19.38	43	6844	0.265 ng		85
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	2954	0.097 ng	#	90
63) n-Octane	20.26	57	3133	0.334 ng		99
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.82	91	53918	1.215 ng		98
67) m- & p-Xylenes	22.04	91	137879	3.841 ng		99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.51	104	14317	0.552 ng		97
70) o-Xylene	22.65	91	61966	1.722 ng		99
71) n-Nonane	22.91	43	27193	1.137 ng		98
72) 1,1,2,2-Tetrachloroethane	22.70	83	188	N.D.		
74) Cumene	23.41	105	5645	0.124 ng		99
75) alpha-Pinene	23.90	93	770804	33.077 ng		94
76) n-Propylbenzene	24.05	91	25052	0.438 ng		99
77) 3-Ethyltoluene	24.17	105	61130	1.407 ng		98
78) 4-Ethyltoluene	24.23	105	31915	0.758 ng		99
79) 1,3,5-Trimethylbenzene	24.32	105	24971	0.703 ng		96

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170930.D
 Acq On : 18 Aug 2009 1:34
 Operator : WA
 Sample : P0902721-013 dil (2000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 06:49:05 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

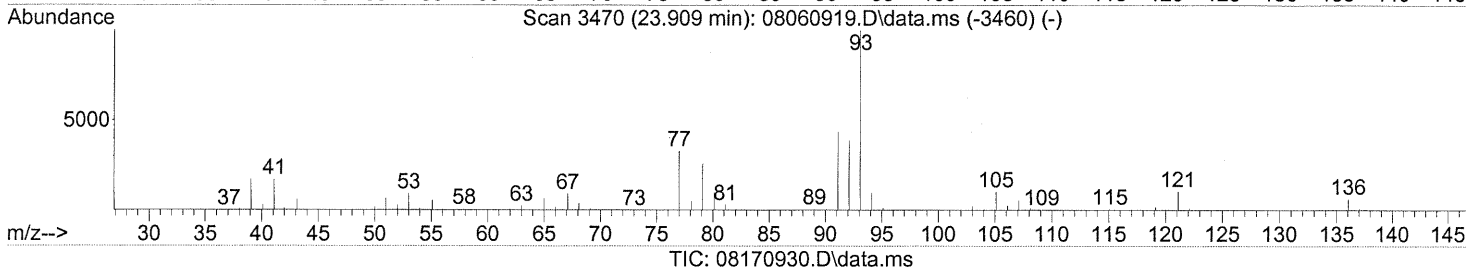
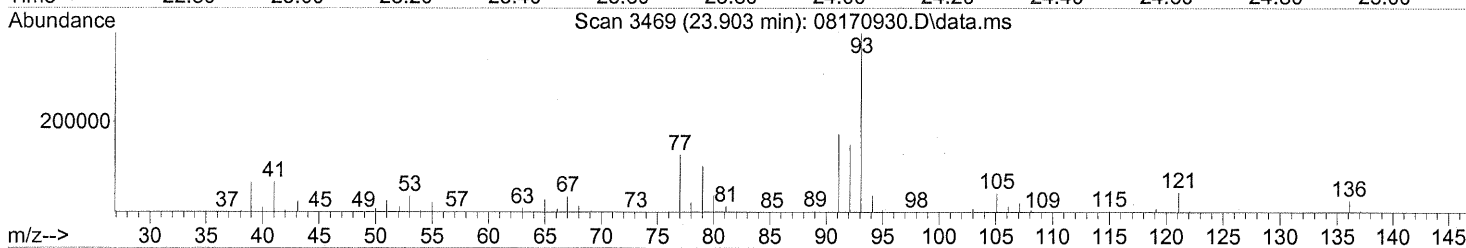
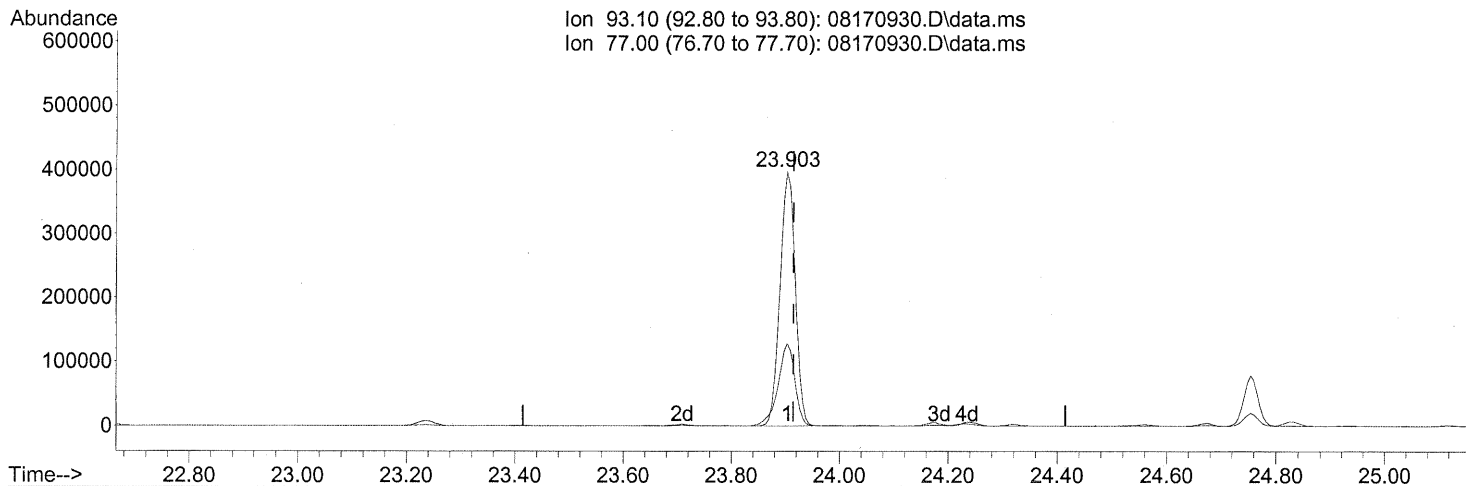
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.83	118	831	N.D.		
81) 2-Ethyltoluene	24.56	105	26536	0.606	ng	97
82) 1,2,4-Trimethylbenzene	24.83	105	92848	2.564	ng	88
83) n-Decane	24.93	57	90821	3.858	ng	98
84) Benzyl Chloride	25.11	91	4422	0.130	ng	# 57
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.16	105	3482	0.071	ng	# 75
88) 4-Isopropyltoluene (p-...	25.35	119	46574	1.068	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	26796	0.726	ng	91
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	25.53	68	90125	5.853	ng	92
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	57130	2.281	ng	89
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	10216	0.208	ng	96
96) n-Dodecane	27.69	57	27310	0.939	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.33	55	2926	0.182	ng	# 92
99) tert-Butylbenzene	25.27	119	7861	0.224	ng	99
100) n-Butylbenzene	25.86	91	11574	0.287	ng	# 65

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170930.D
 Acq On : 18 Aug 2009 1:34
 Operator : WA
 Sample : P0902721-013 dil (2000mL)
 Misc : Env. Health & Engineering 100202
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 06:49:05 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(75) alpha-Pinene (T)
 23.903min (-0.011) 33.08ng
 response 770804

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	35.51
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100203
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-014

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: AC01544

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17 - 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 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	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	2.1	0.74	1.2	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.74	0.61	0.15	
74-87-3	Chloromethane	0.96	0.15	0.47	0.071	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.74	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.066	
74-83-9	Bromomethane	0.40	0.15	0.10	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	Ethanol	69	7.4	37	3.9	
75-05-8	Acetonitrile	270	0.74	160	0.44	E
107-02-8	Acrolein	8.4	0.74	3.7	0.32	
67-64-1	Acetone	140	7.4	59	3.1	
75-69-4	Trichlorofluoromethane	1.5	0.15	0.28	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.4	0.74	2.2	0.30	
107-13-1	Acrylonitrile	ND	0.74	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	2.0	0.74	0.58	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.047	
76-13-1	Trichlorotrifluoroethane	0.70	0.15	0.091	0.019	
75-15-0	Carbon Disulfide	3.4	0.74	1.1	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	ND	7.4	ND	2.1	
78-93-3	2-Butanone (MEK)	8.9	0.74	3.0	0.25	

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.

E = Estimated; concentration exceeded calibration range.

Verified By: P Date: 8/24/09 **554**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100203

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-014

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: AC01544

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/17 - 8/18/09

Volume(s) Analyzed: 1.00 Liter(s)

0.20 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	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	0.95	0.74	0.26	0.20	
110-54-3	n-Hexane	7.7	0.74	2.2	0.21	
67-66-3	Chloroform	0.27	0.15	0.055	0.030	
109-99-9	Tetrahydrofuran (THF)	1.5	0.74	0.51	0.25	
107-06-2	1,2-Dichloroethane	0.16	0.15	0.040	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	5.7	0.15	1.8	0.046	
56-23-5	Carbon Tetrachloride	0.64	0.15	0.10	0.023	
110-82-7	Cyclohexane	1.4	0.74	0.39	0.21	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.74	ND	0.20	
80-62-6	Methyl Methacrylate	ND	0.74	ND	0.18	
142-82-5	n-Heptane	5.9	0.74	1.4	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	ND	0.16	
108-10-1	4-Methyl-2-pentanone	1.8	0.74	0.43	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	55	0.74	15	0.20	
591-78-6	2-Hexanone	1.5	0.74	0.38	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	0.75	0.74	0.16	0.15	

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: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100203
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-014

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: AC01544

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17 - 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 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	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	3.0	0.74	0.64	0.16	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	9.3	0.74	2.1	0.17	
179601-23-1	m,p-Xylenes	29	0.74	6.7	0.17	
75-25-2	Bromoform	ND	0.74	ND	0.071	
100-42-5	Styrene	4.6	0.74	1.1	0.17	
95-47-6	o-Xylene	13	0.74	3.0	0.17	
111-84-2	n-Nonane	8.2	0.74	1.6	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	0.94	0.74	0.19	0.15	
80-56-8	alpha-Pinene	210	0.74	37	0.13	D
103-65-1	n-Propylbenzene	3.4	0.74	0.68	0.15	
622-96-8	4-Ethyltoluene	5.6	0.74	1.1	0.15	
108-67-8	1,3,5-Trimethylbenzene	5.3	0.74	1.1	0.15	
95-63-6	1,2,4-Trimethylbenzene	19	0.74	3.9	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.024	
5989-27-5	d-Limonene	41	0.74	7.4	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.74	ND	0.076	
120-82-1	1,2,4-Trichlorobenzene	ND	0.74	ND	0.099	
91-20-3	Naphthalene	1.6	0.74	0.31	0.14	
87-68-3	Hexachlorobutadiene	ND	0.74	ND	0.069	

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.

D = The reported result is from a dilution.

Verified By: _____

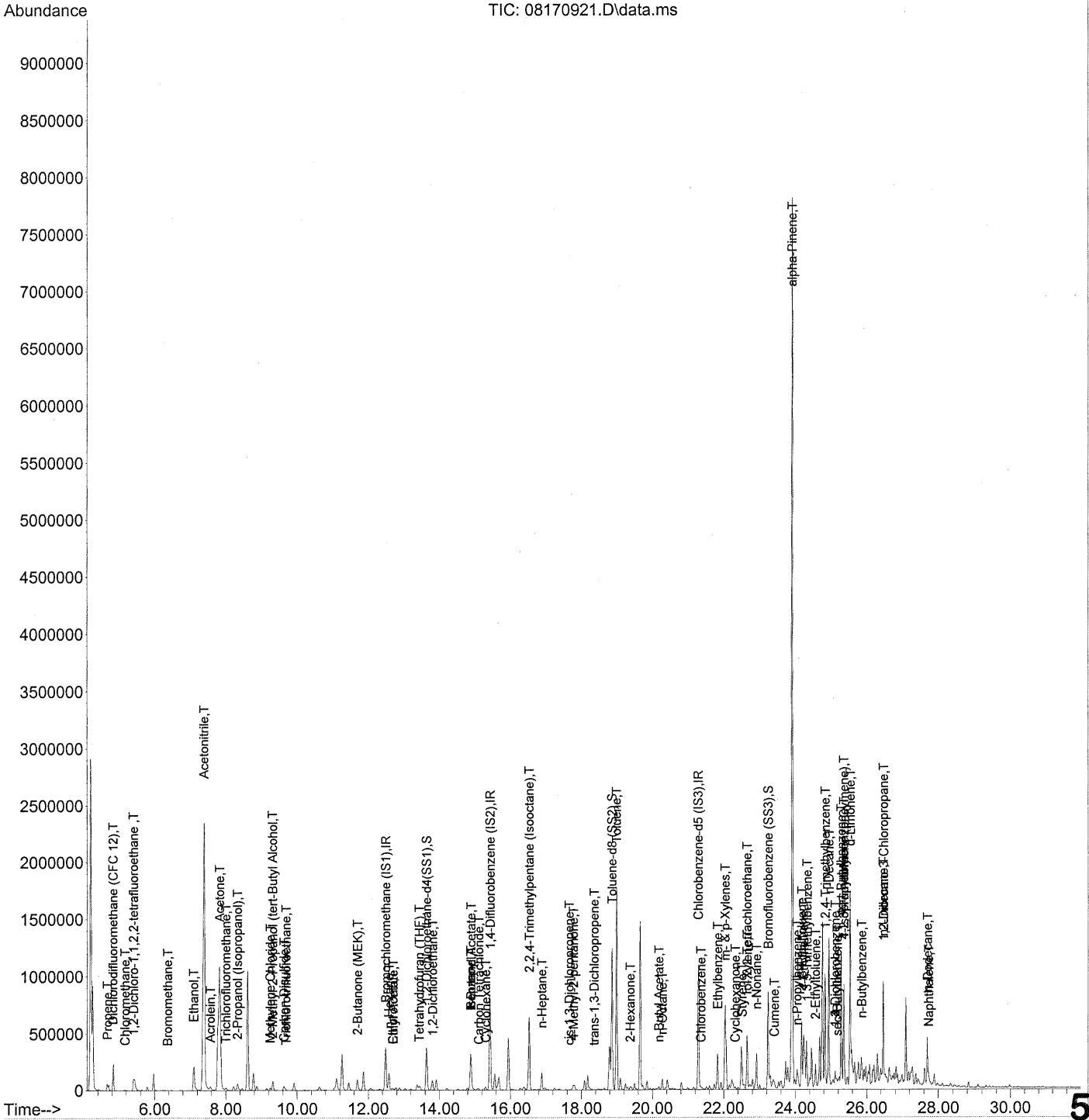
Date: _____

8/24/09

556

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 20 17:09:22 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203 ✓
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 20 17:09:22 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

WR 8/20/09

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	189789	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	965273	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	458195	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	378092	22.920	ng	-0.03
Spiked Amount	25.000			Recovery =	91.68%	✓
57) Toluene-d8 (SS2)	18.85	98	1054925	26.349	ng	-0.01
Spiked Amount	25.000			Recovery =	105.40%	✓
73) Bromofluorobenzene (SS3)	23.24	174	275982	26.140	ng	0.00
Spiked Amount	25.000			Recovery =	104.56%	✓

Target Compounds

Target Compounds	R.T.	Qion	Response	Conc	Units	Qvalue
2) Propene	4.66	42	18283m	1.404	ng	
3) Dichlorodifluoromethan...	4.83	85	43333	2.036	ng	98
4) Chloromethane	5.17	50	9376	0.656	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	734	0.085	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.81	54	330	N.D.		
8) Bromomethane	6.36	94	2304	0.275	ng	100
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.10	45	386117	46.772	ng	100
11) Acetonitrile	7.39	41	4368223	180.679	ng	E 100
12) Acrolein	7.57	56	36051	5.737	ng	95
13) Acetone	7.82	58	737640	94.700	ng	90
14) Trichlorofluoromethane	8.00	101	20259	1.053	ng	99
15) 2-Propanol (Isopropanol)	8.33	45	113067	3.694	ng	97
16) Acrylonitrile	0.00	53	0	N.D. d		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.31	59	7893	0.291	ng	# 1
19) Methylene Chloride	9.25	84	14226	1.360	ng	97
20) 3-Chloro-1-propene (Al...	9.42	41	362	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3319	0.474	ng	95
22) Carbon Disulfide	9.63	76	85606	2.321	ng	99
23) trans-1,2-Dichloroethene	10.59	61	88	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. d		
27) 2-Butanone (MEK)	11.69	72	42732	6.076	ng	94
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	102	N.D.		
30) Ethyl Acetate	12.70	61	2365	0.646	ng	92
31) n-Hexane	12.58	57	97726	5.214	ng	95

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 20 17:09:22 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	3024	0.183 ng		93
34) Tetrahydrofuran (THF)	13.43	72	7637	1.019 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.80	62	1637	0.109 ng		67
38) 1,1,1-Trichloroethane	14.18	97	101	N.D.		
39) Isopropyl Acetate	14.88	61	1006	0.140 ng	#	1
40) 1-Butanol	14.88	56	171209	13.666 ng		80
41) Benzene	14.88	78	163588	3.855 ng		99
42) Carbon Tetrachloride	15.11	117	5875	0.434 ng		97
43) Cyclohexane	15.30	84	14341	0.923 ng		94
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	15.94	63	402	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.55	88	210	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	768231	15.368 ng		99
50) Methyl Methacrylate	16.78	100	97	N.D.		
51) n-Heptane	16.88	71	45648	4.008 ng		97
52) cis-1,3-Dichloropropene	17.65	75	1252	0.071 ng	#	44
53) 4-Methyl-2-pentanone	17.77	58	12336	1.209 ng		99
54) trans-1,3-Dichloropropene	18.36	75	1087	0.065 ng	#	44
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	1481045	37.641 ng		99
59) 2-Hexanone	19.37	43	27364	1.046 ng		96
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	15678	0.508 ng		83
63) n-Octane	20.28	57	19289	2.028 ng		98
64) Tetrachloroethene	20.48	166	186	N.D.		
65) Chlorobenzene	21.36	112	1266	0.052 ng	#	43
66) Ethylbenzene	21.82	91	283496	6.303 ng		99
67) m- & p-Xylenes	22.04	91	724108	19.901 ng		98
68) Bromoform	22.14	173	203	N.D.		
69) Styrene	22.51	104	82146	3.124 ng		99
70) o-Xylene	22.65	91	320802	8.794 ng		97
71) n-Nonane	22.91	43	134597	5.553 ng		97
72) 1,1,2,2-Tetrachloroethane	22.65	83	1406	0.087 ng	#	18
74) Cumene	23.41	105	29331	0.637 ng		99
75) alpha-Pinene	23.91	93	3780804	160.061 ng	see dil	97
76) n-Propylbenzene	24.05	91	131991	2.279 ng		96
77) 3-Ethyltoluene	24.18	105	333819	7.580 ng		99
78) 4-Ethyltoluene	24.23	105	162598	3.810 ng		100
79) 1,3,5-Trimethylbenzene	24.32	105	129221	3.590 ng		9

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
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Quant Time: Aug 20 17:09:22 2009
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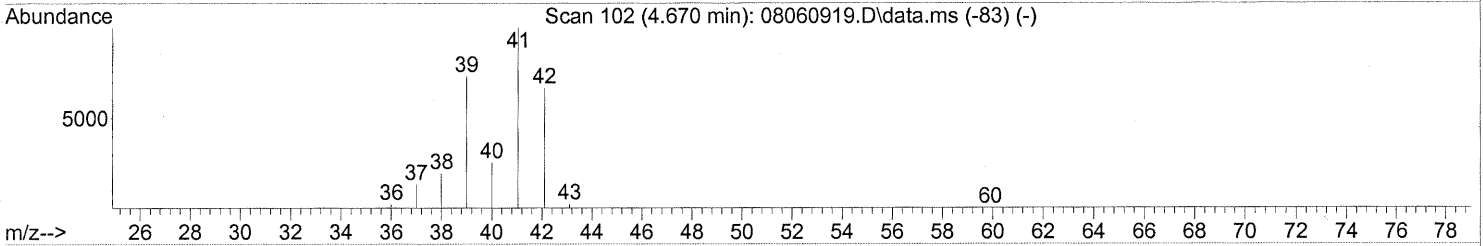
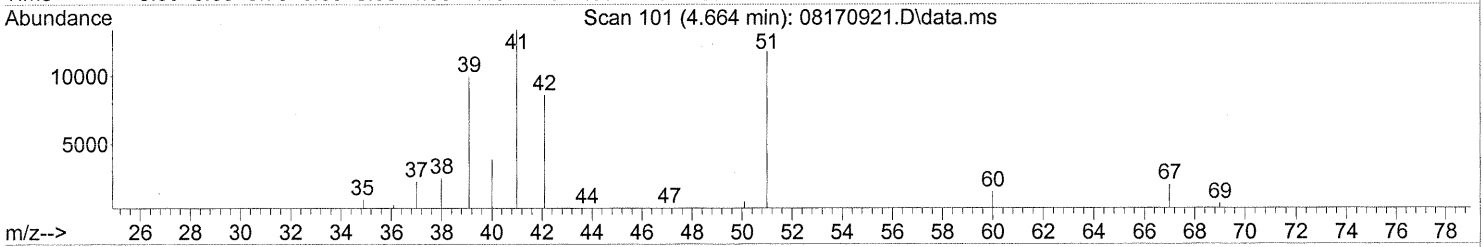
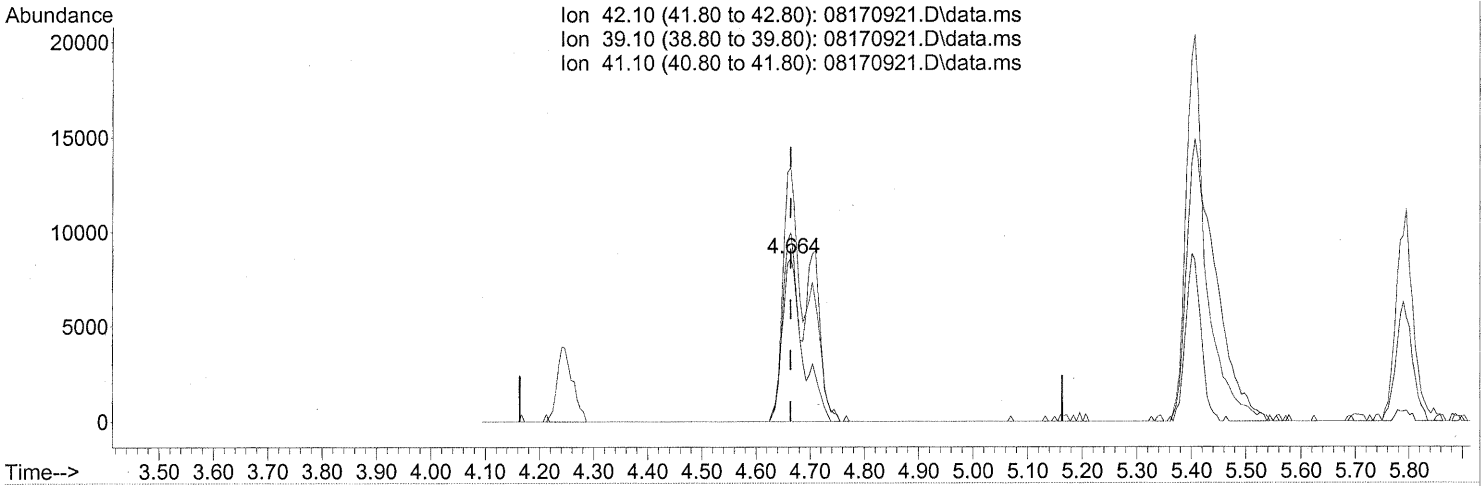
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	858	N.D.		
81) 2-Ethyltoluene	24.56	105	138228	3.113 ng		98
82) 1,2,4-Trimethylbenzene	24.83	105	482183	13.138 ng		89
83) n-Decane	24.94	57	468887	19.649 ng		96
84) Benzyl Chloride	25.02	91	775	N.D.		
85) 1,3-Dichlorobenzene	25.11	146	1100	0.059 ng		87
86) 1,4-Dichlorobenzene	25.11	146	1100	0.056 ng		88
87) sec-Butylbenzene	25.17	105	19569	0.395 ng		99
88) 4-Isopropyltoluene (p-...	25.35	119	249674	5.647 ng		96
89) 1,2,3-Trimethylbenzene	25.35	105	139570	3.733 ng		89
90) 1,2-Dichlorobenzene	25.11	146	1100	0.062 ng		90
91) d-Limonene	25.53	68	437631	28.040 ng		93
92) 1,2-Dibromo-3-Chloropr...	26.46	157	1370	0.226 ng	#	1
93) n-Undecane	26.46	57	309785	12.202 ng		93
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	55227	1.108 ng		91
96) n-Dodecane	27.70	57	139286	4.722 ng		99
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	8455	0.519 ng		89
99) tert-Butylbenzene	25.27	119	39148	1.102 ng		100
100) n-Butylbenzene	25.86	91	57564	1.408 ng	#	47

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
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 Acq On : 17 Aug 2009 19:23
 Operator : WA
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 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08170921.D\data.ms

(2) Propene (T)

4.664min (+0.000) 1.72ng

response 22441

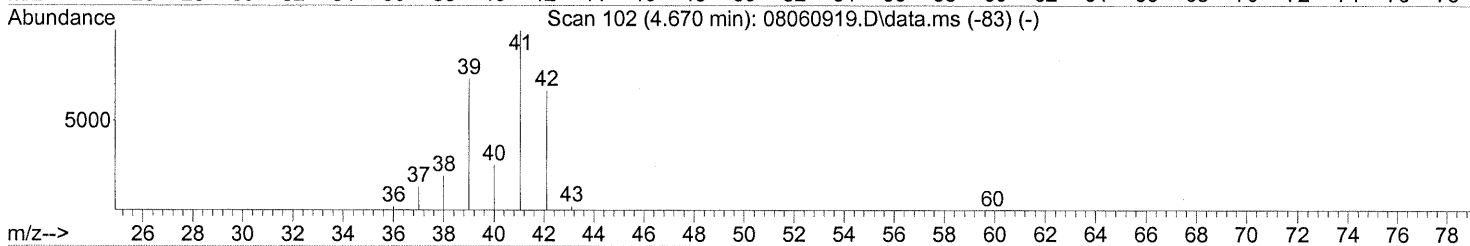
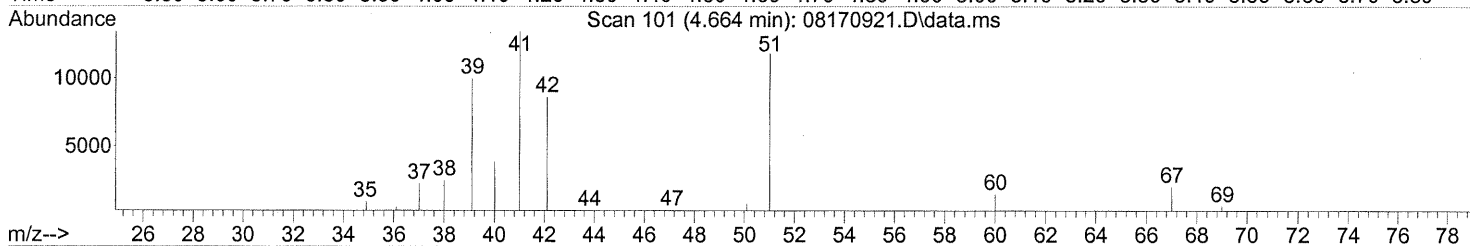
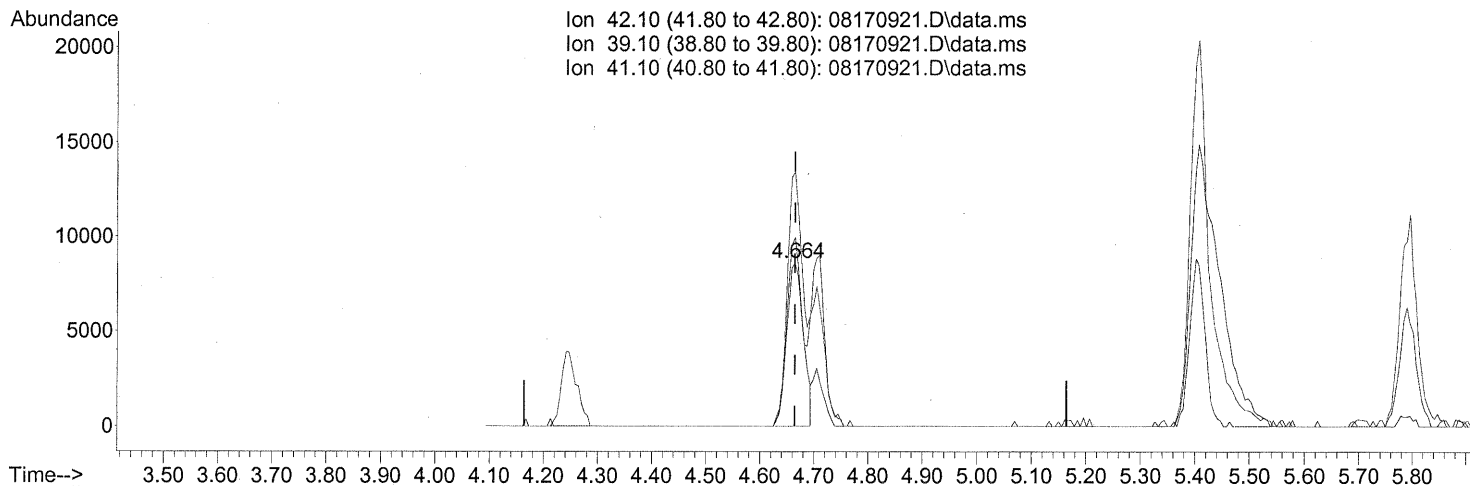
Ion	Exp%	Act%
42.10	100	100
39.10	111.90	88.63#
41.10	150.20	177.18#
0.00	0.00	0.00

SN

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
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TIC: 08170921.D\data.ms

(2) Propene (T)

4.664min (+0.000) 1.40ng m
 response 18283

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	108.78
41.10	150.20	217.47#
0.00	0.00	0.00

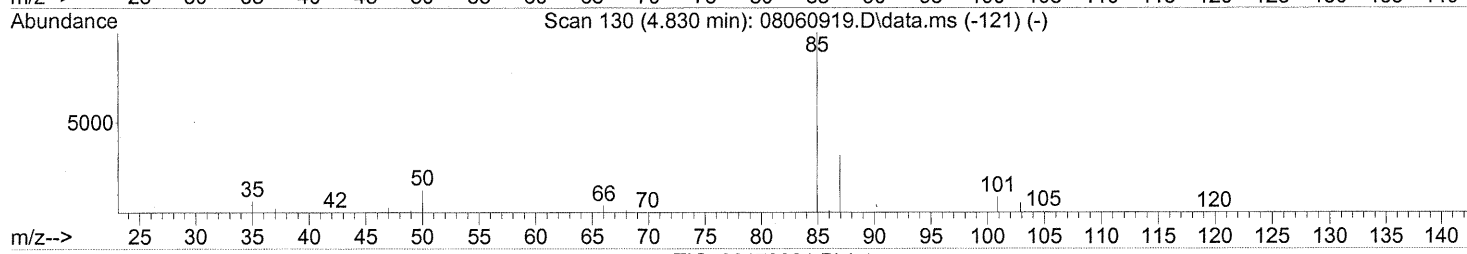
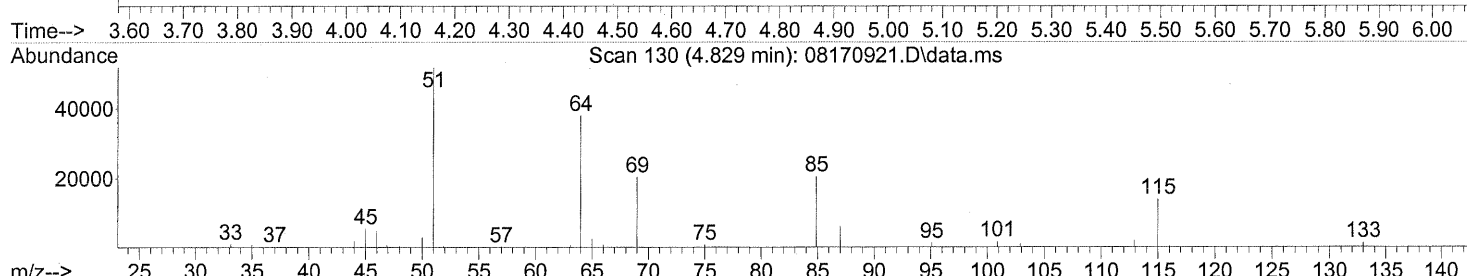
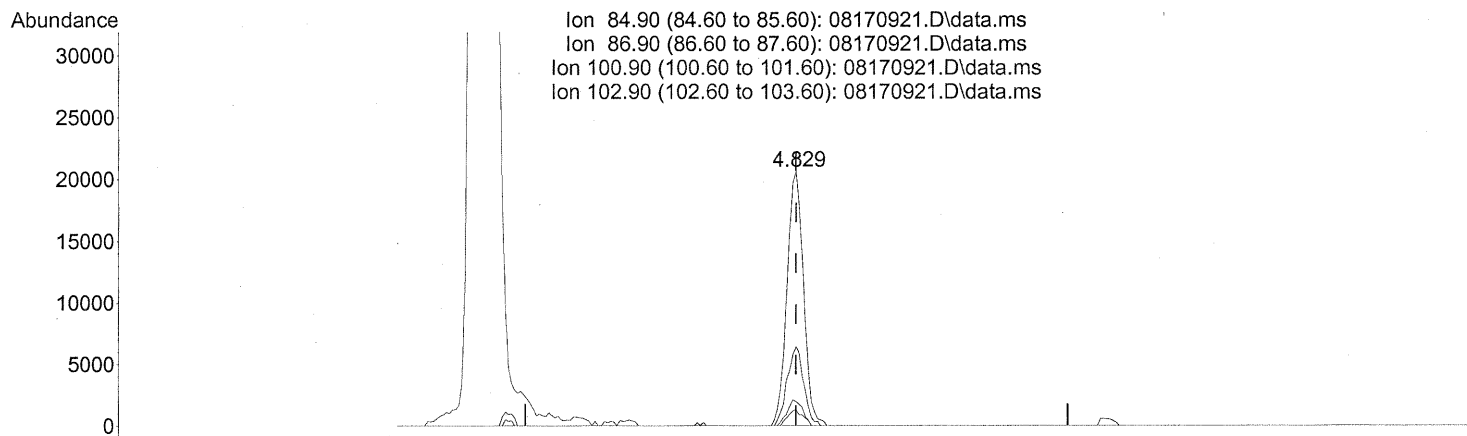
*SM → IC
 in 8/20/09*

8/21/09

Quantitation Report (Qedit)

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(3) Dichlorodifluoromethane (CFC 12) (T)

4.829min (+0.000) 2.04ng

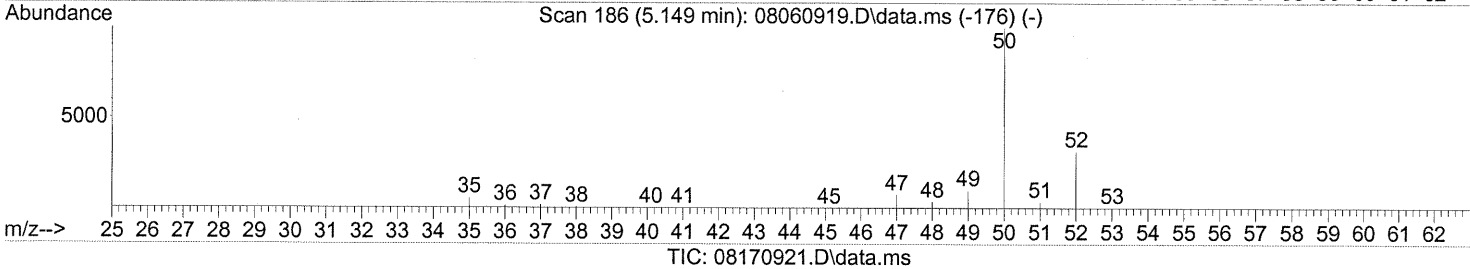
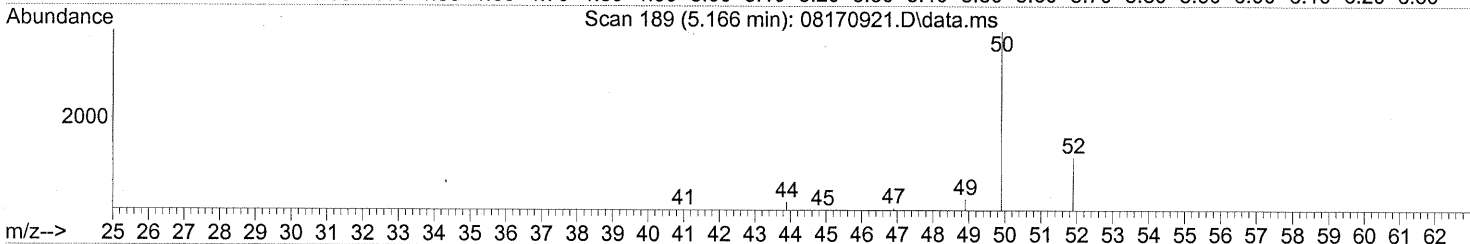
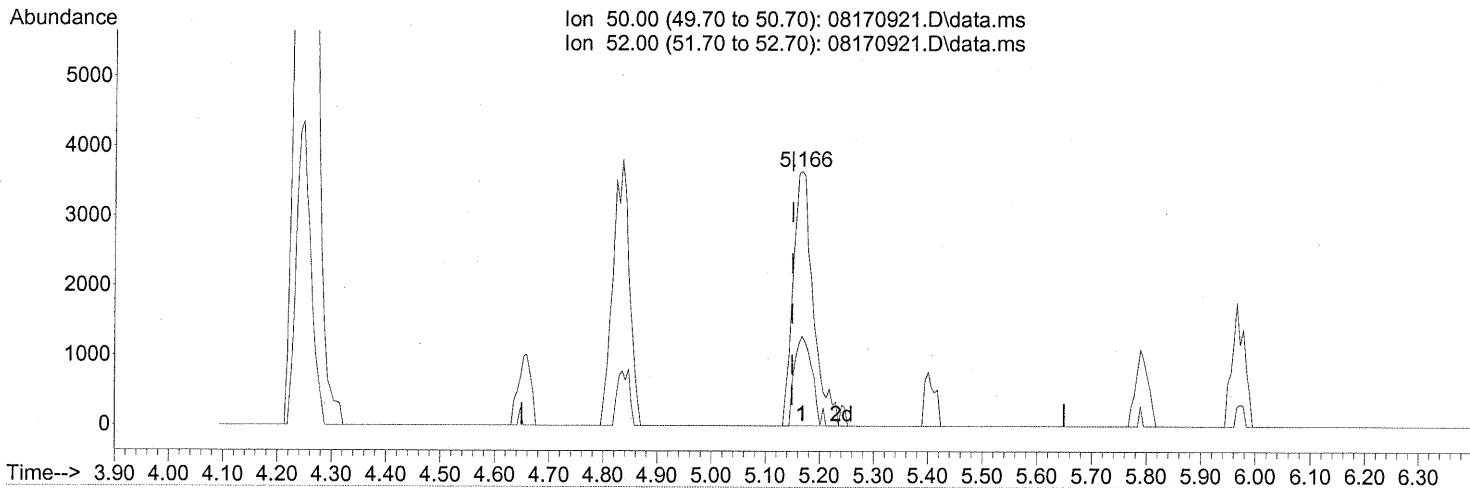
response 43333

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.14
100.90	8.80	9.36
102.90	5.20	5.63

Quantitation Report (Qedit)

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 Response via : Initial Calibration



(4) Chloromethane (T)

5.166min (+0.017) 0.66ng

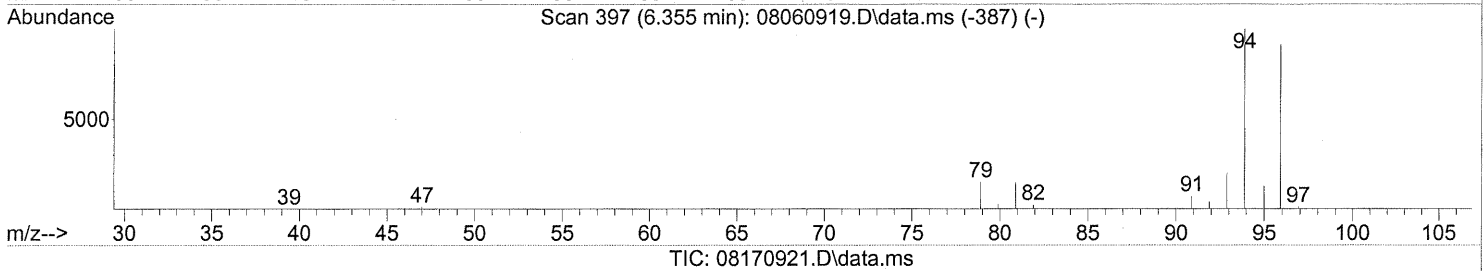
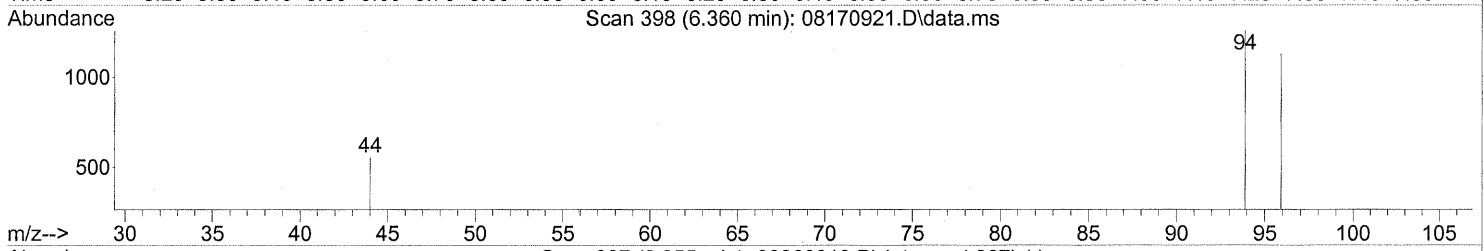
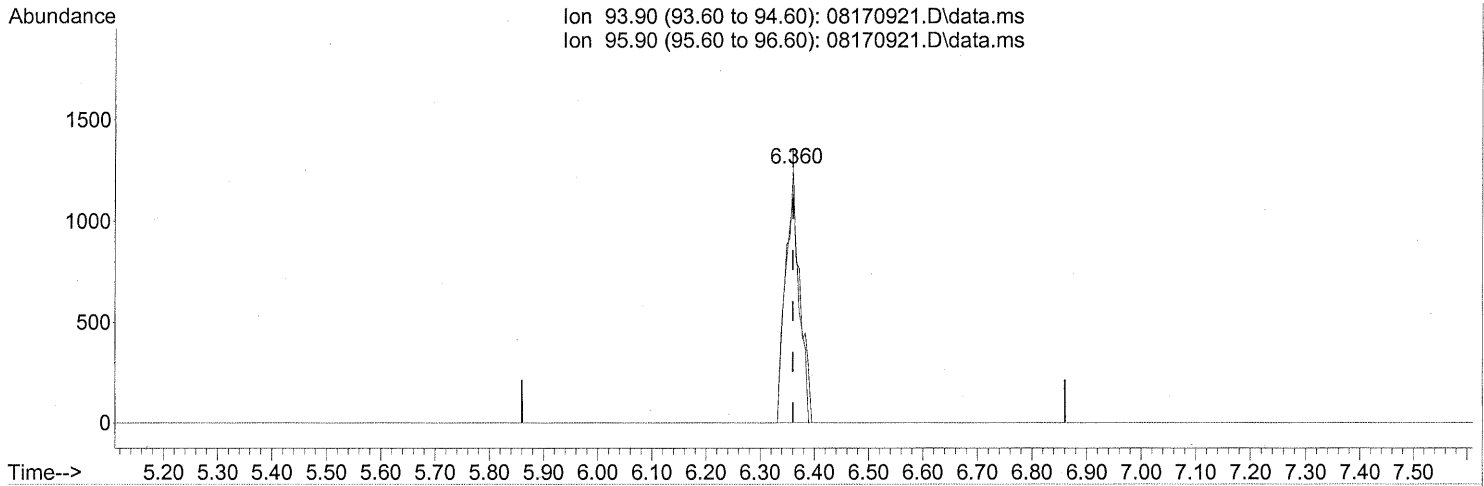
response 9376

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	30.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(8) Bromomethane (T)

6.360min (+0.000) 0.28ng

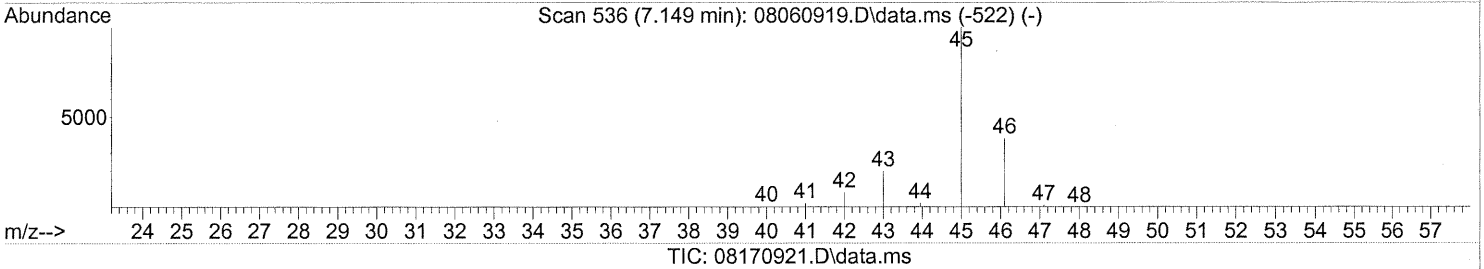
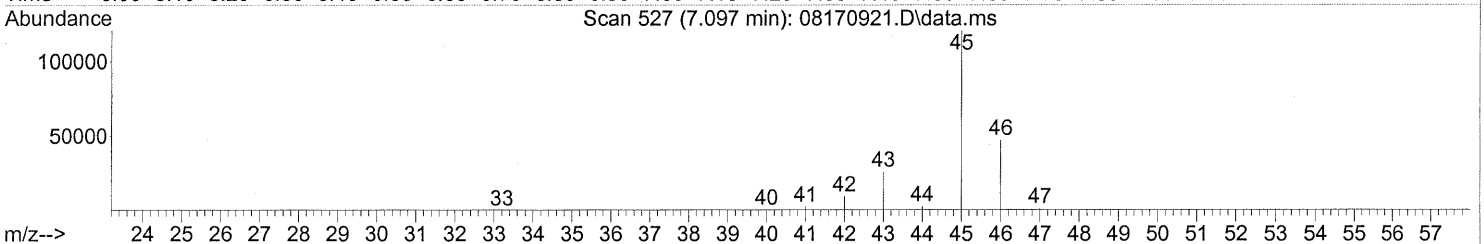
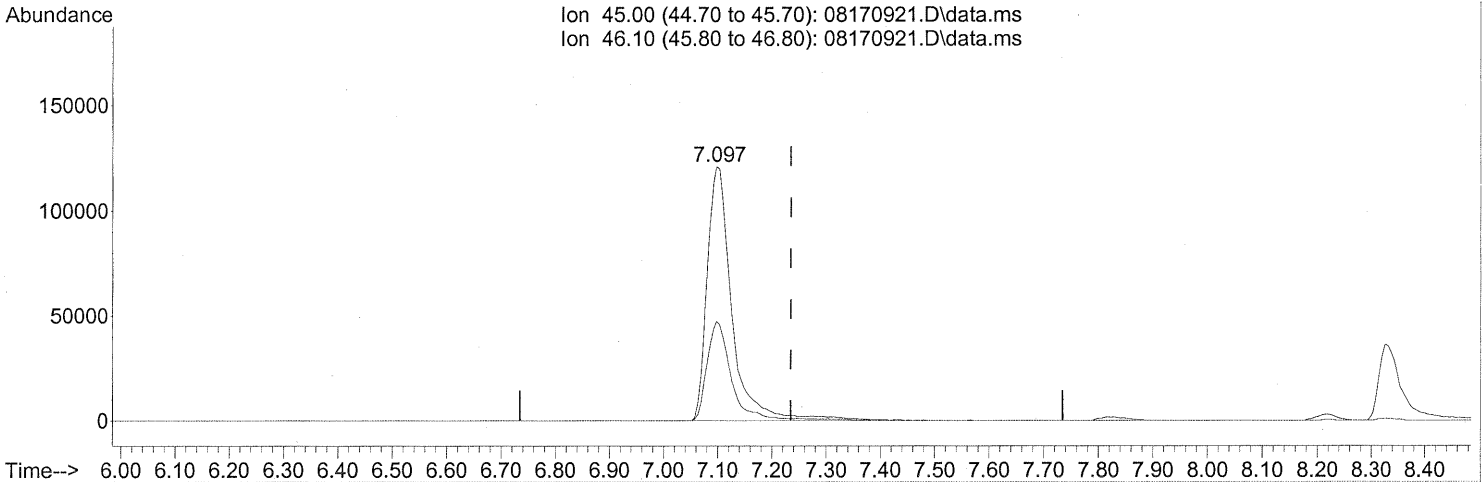
response 2304

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	92.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
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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)

7.097min (-0.137) 46.77ng

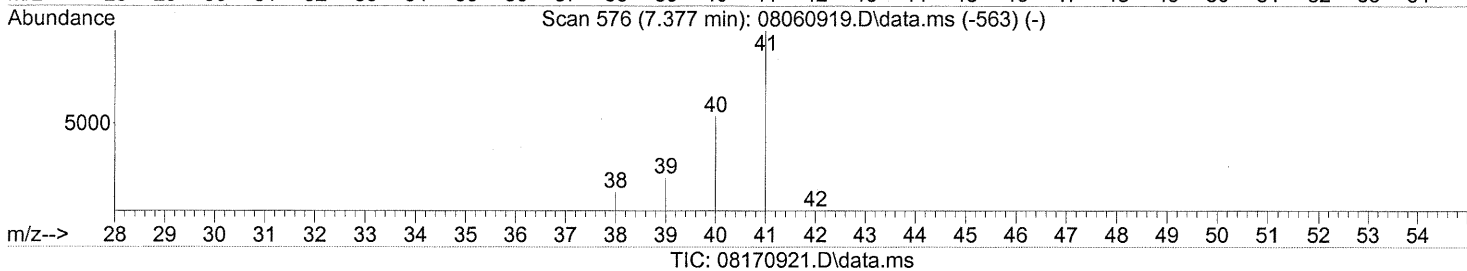
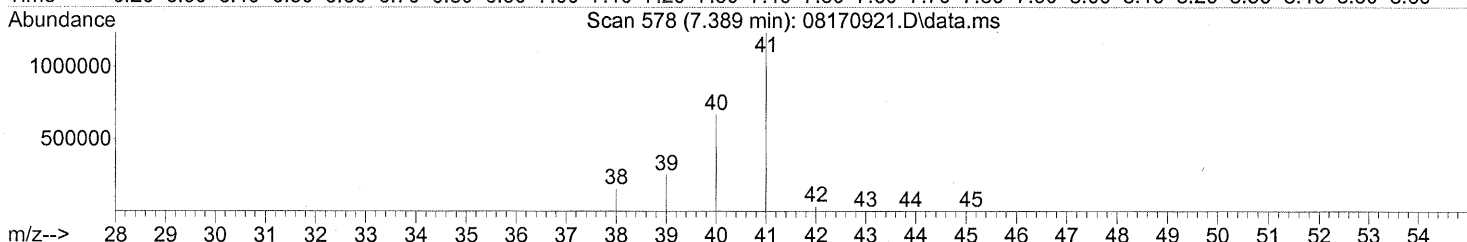
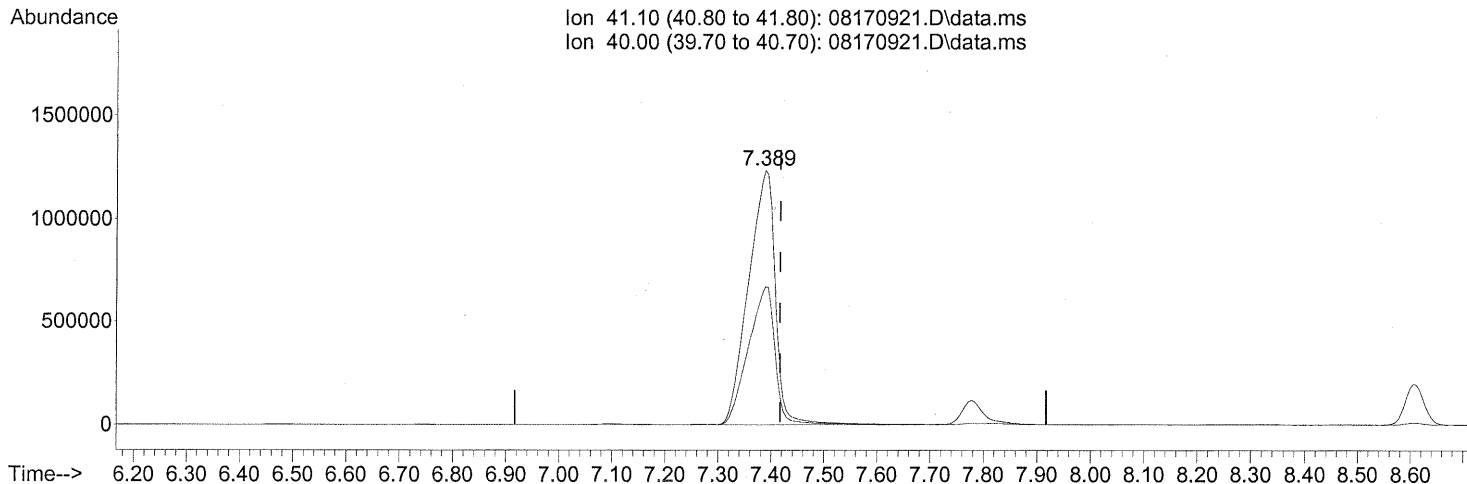
response 386117

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(11) Acetonitrile (T)

7.389min (-0.029) 180.68ng *E*

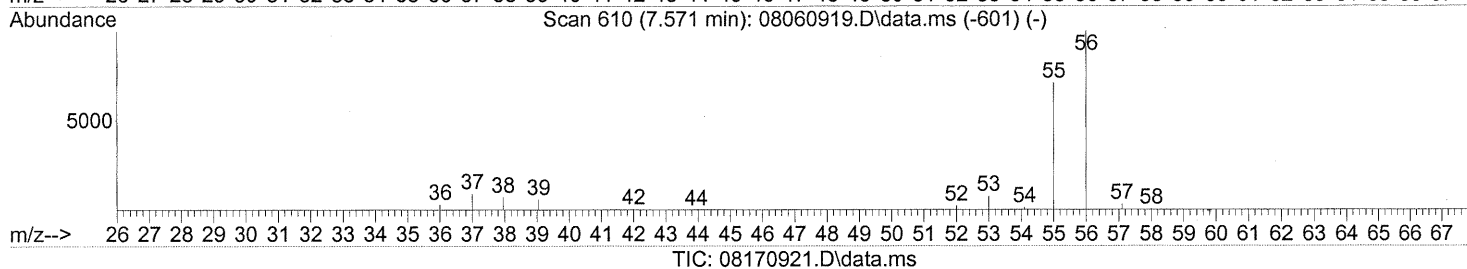
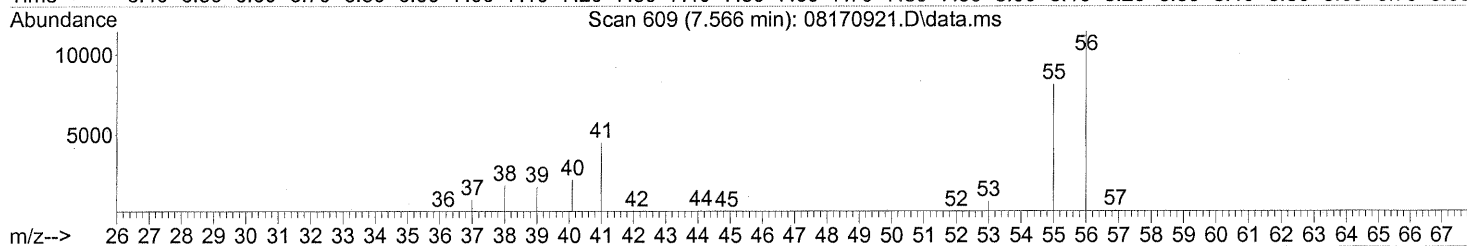
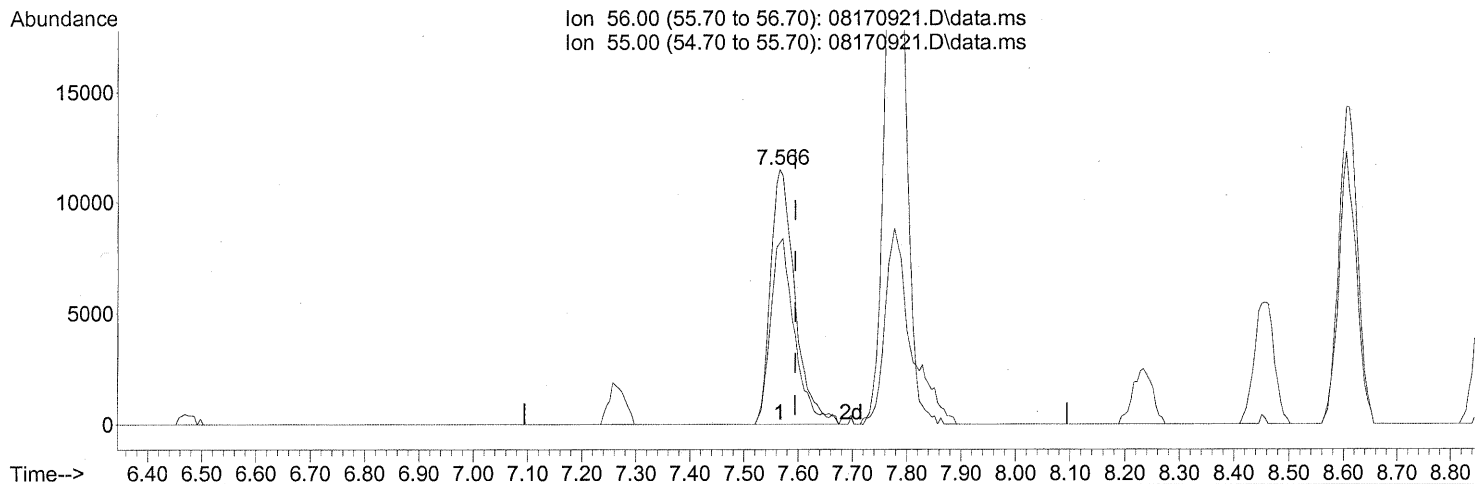
response 4368223

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Response via : Initial Calibration



(12) Acrolein (T)

7.566min (-0.029) 5.74ng

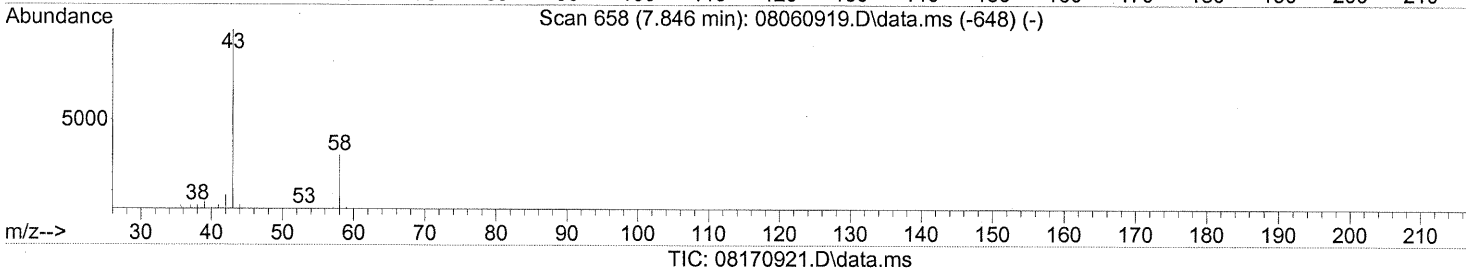
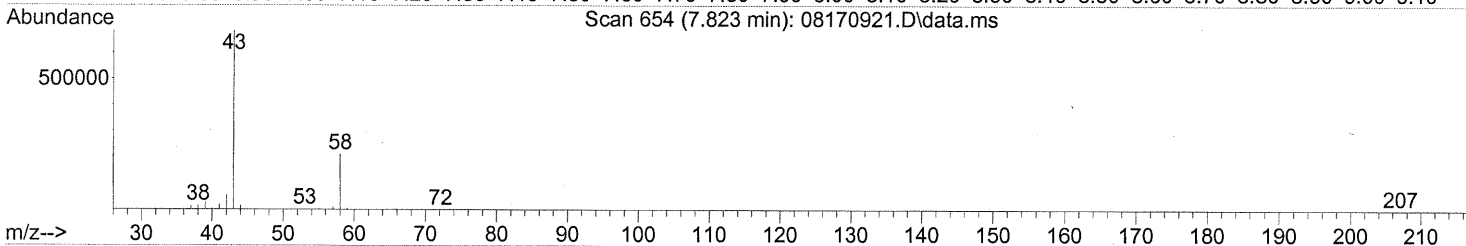
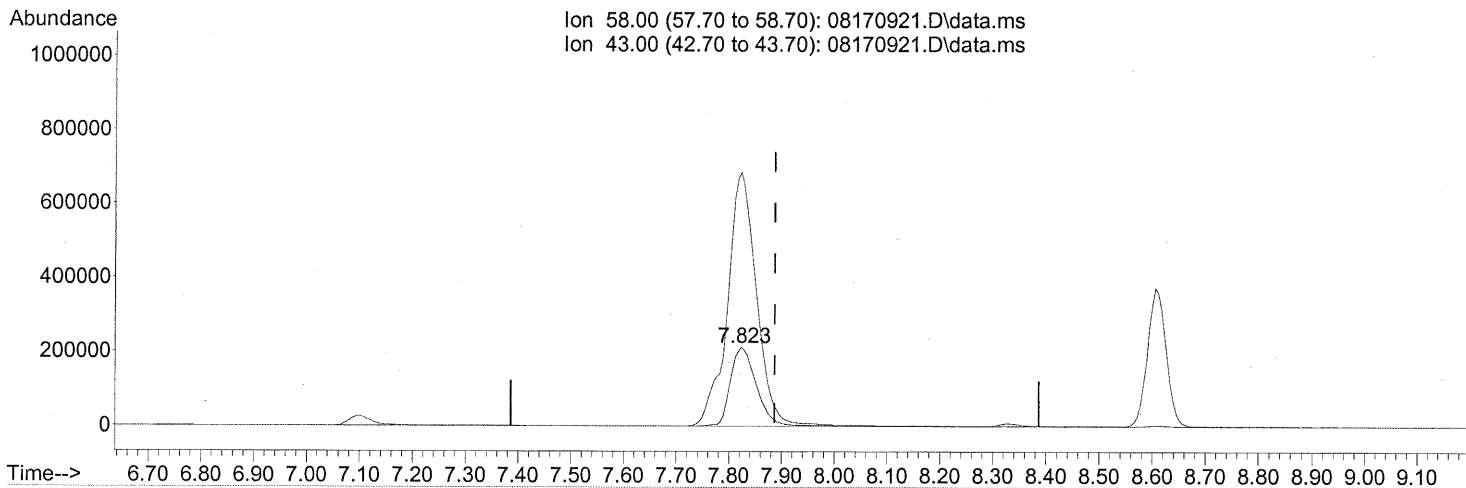
response 36051

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	71.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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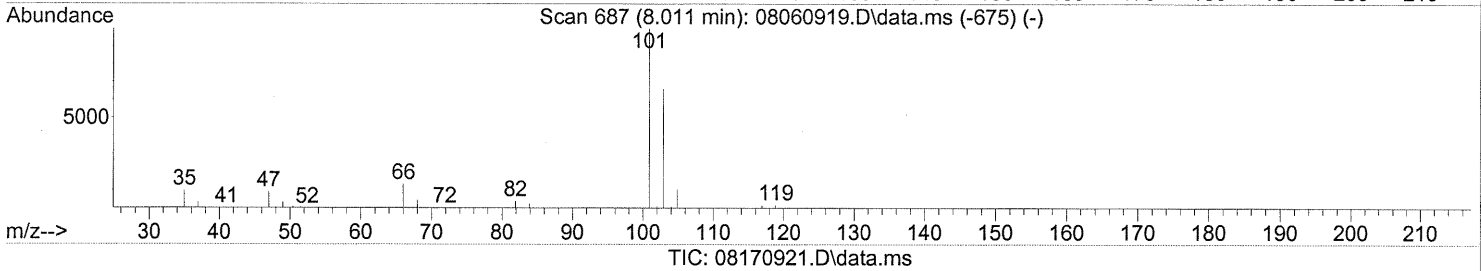
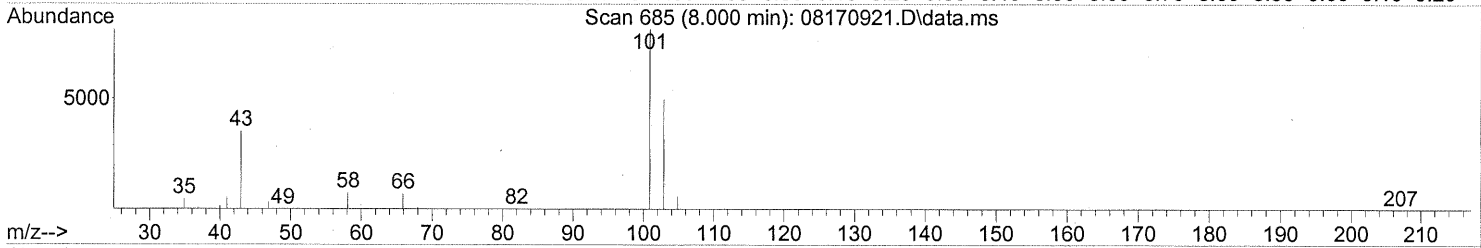
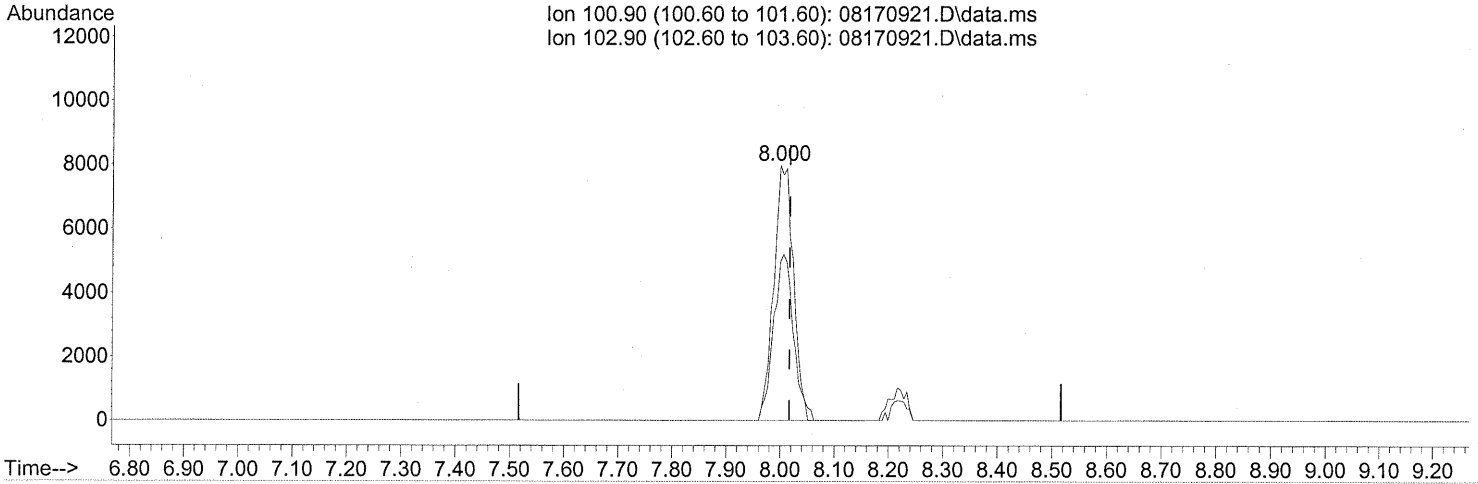
(13) Acetone (T)
 7.823min (-0.063) 94.70ng
 response 737640

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	360.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(14) Trichlorofluoromethane (T)

8.000min (-0.017) 1.05ng

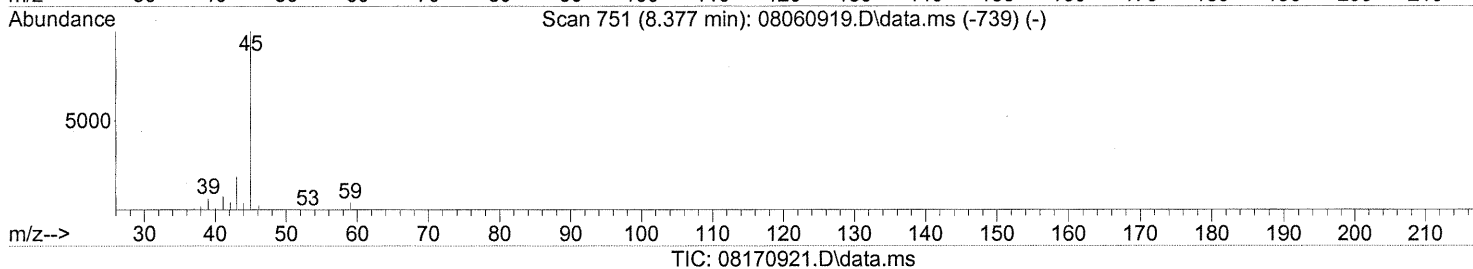
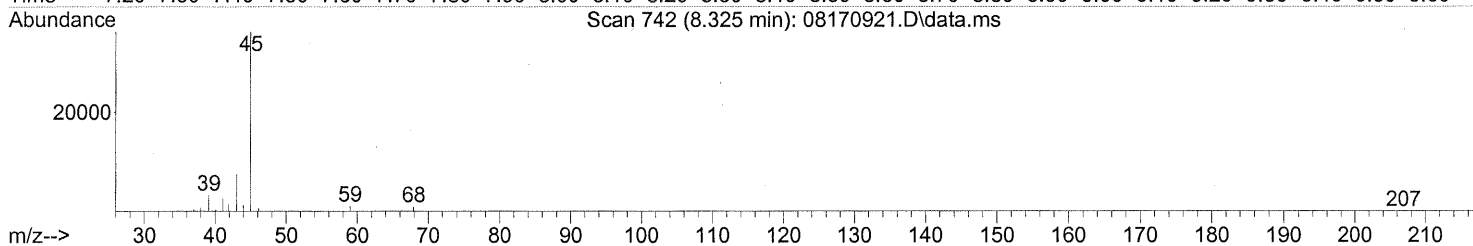
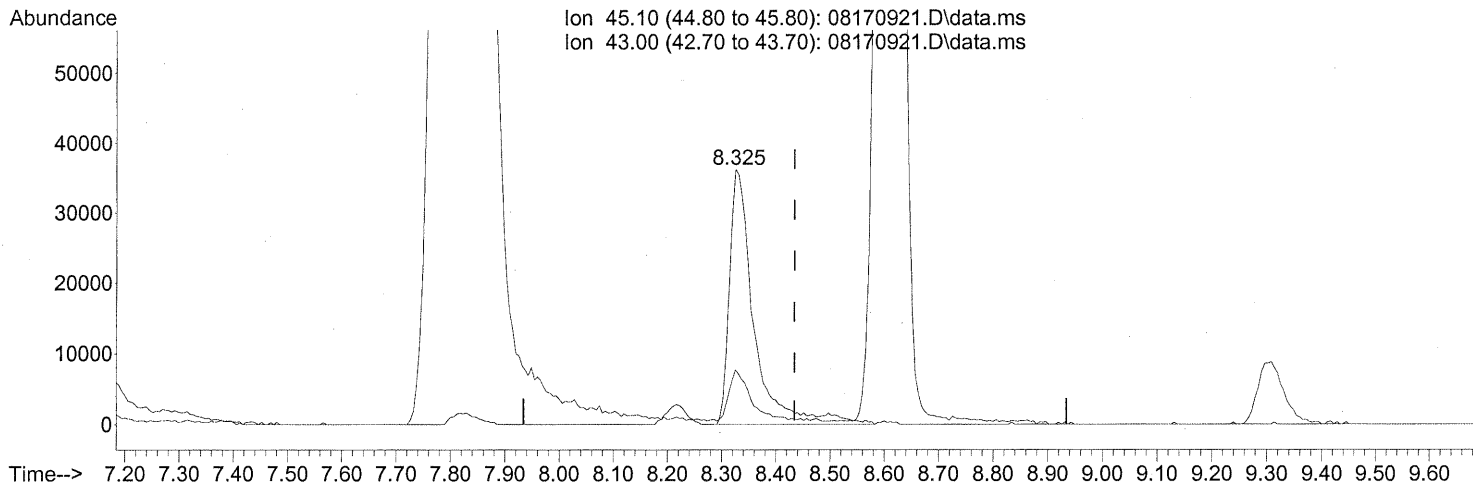
response 20259

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(15) 2-Propanol (Isopropanol) (T)

8.325min (-0.108) 3.69ng

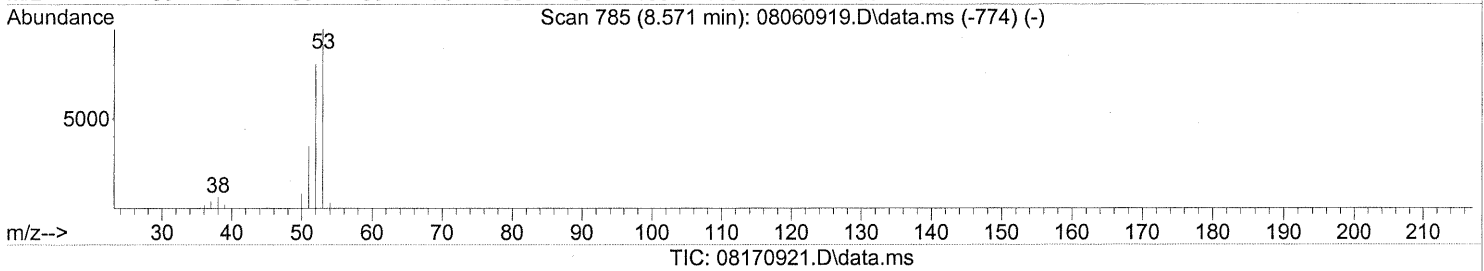
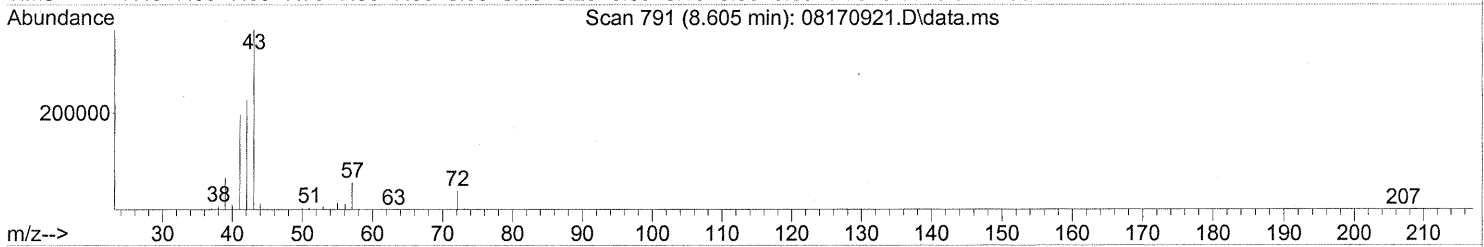
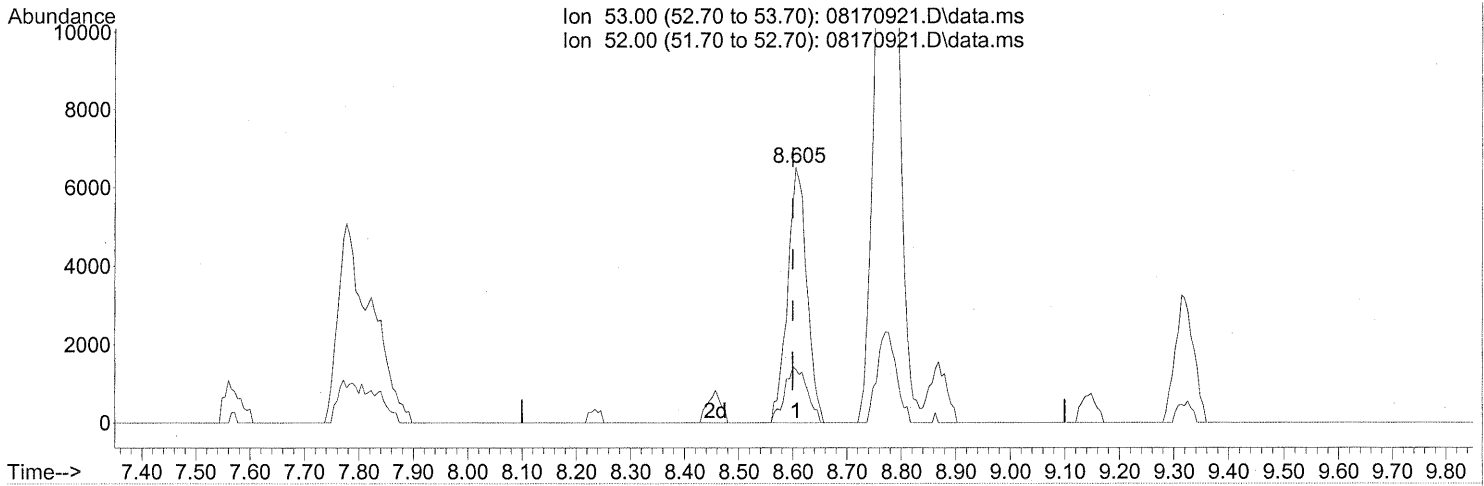
response 113067

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	20.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Sample : P0902721-014 (1000mL)
Misc : Env. Health & Engineering 100203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)
8.605min (+0.006) 1.15ng
response 16174

FP in 8/20/09

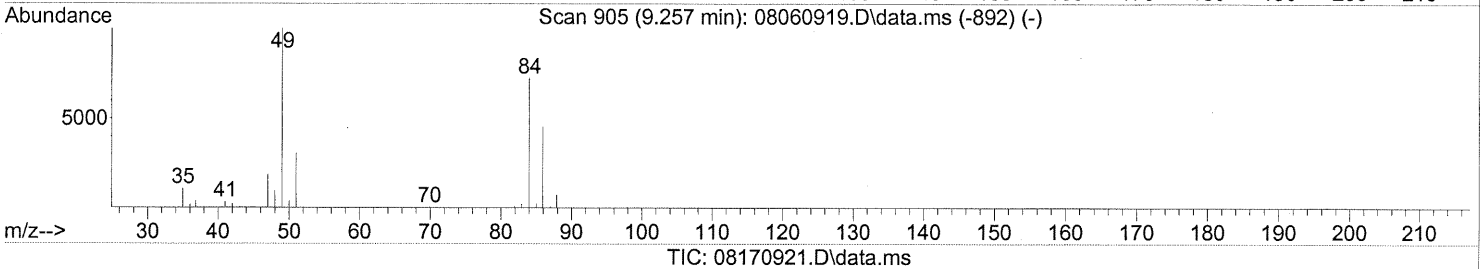
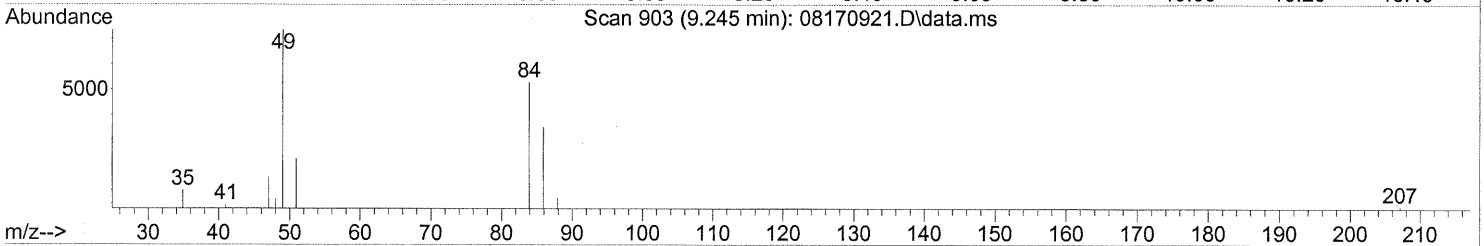
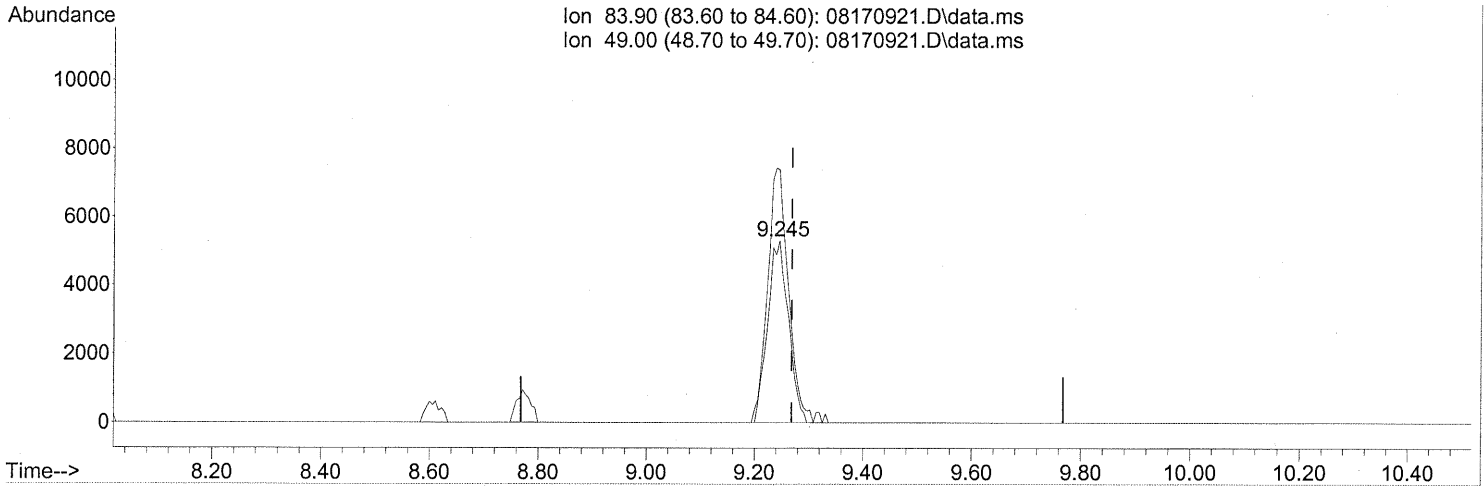
Ion	Exp%	Act%
53.00	100	100
52.00	81.20	25.57#
0.00	0.00	0.00
0.00	0.00	0.00

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.245min (-0.023) 1.36ng

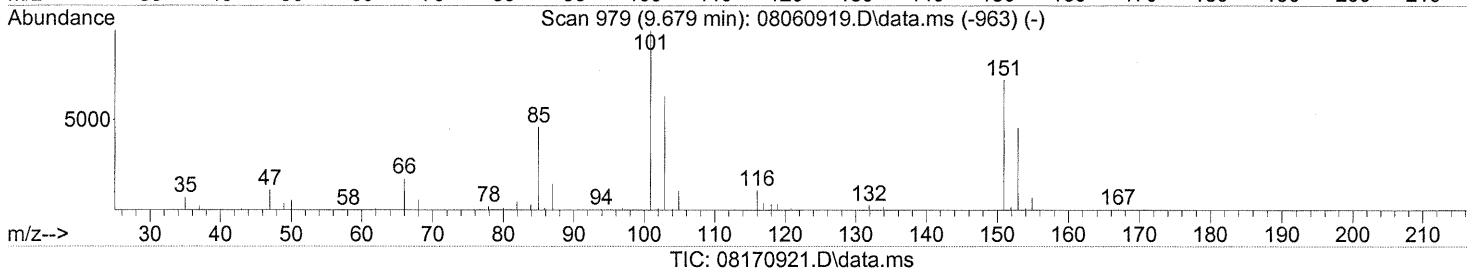
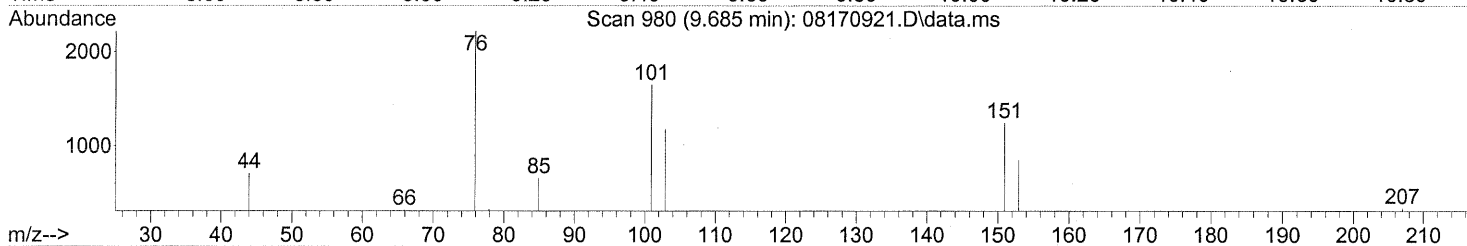
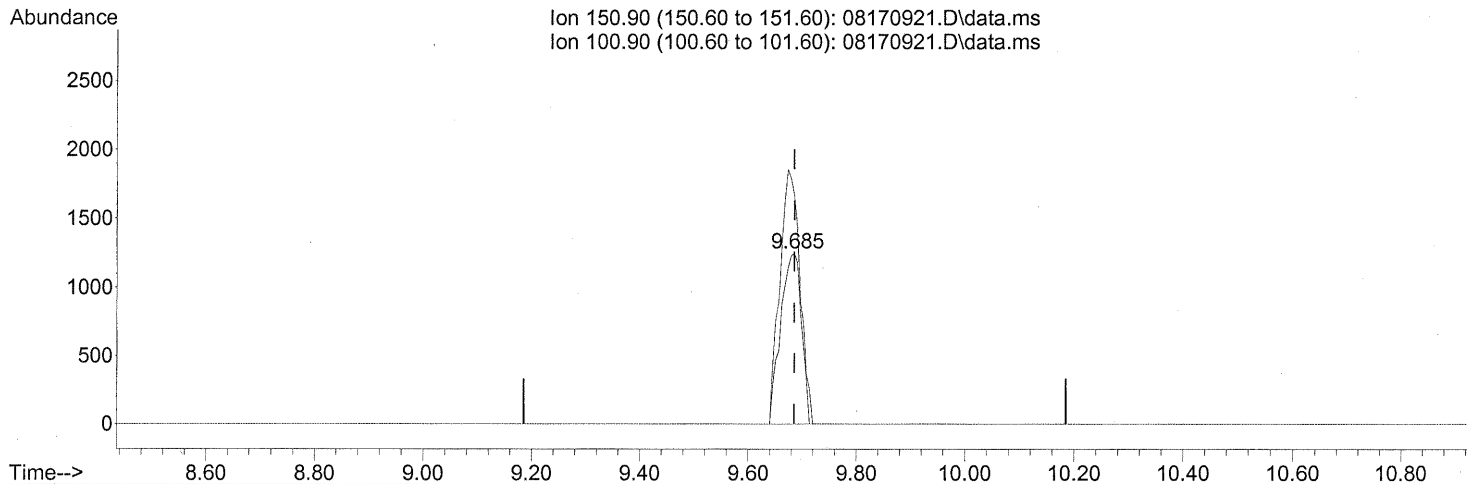
response 14226

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	140.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.685min (+0.000) 0.47ng

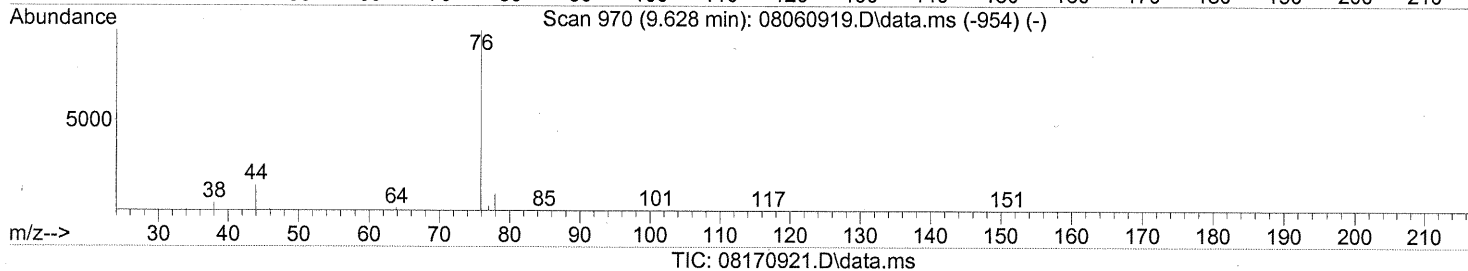
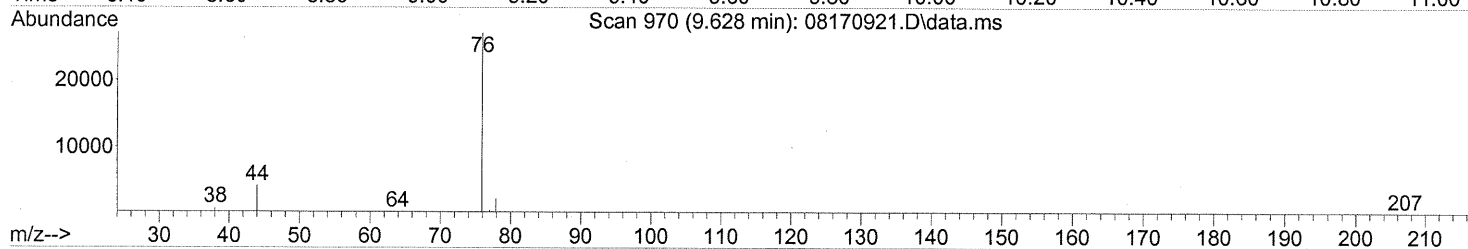
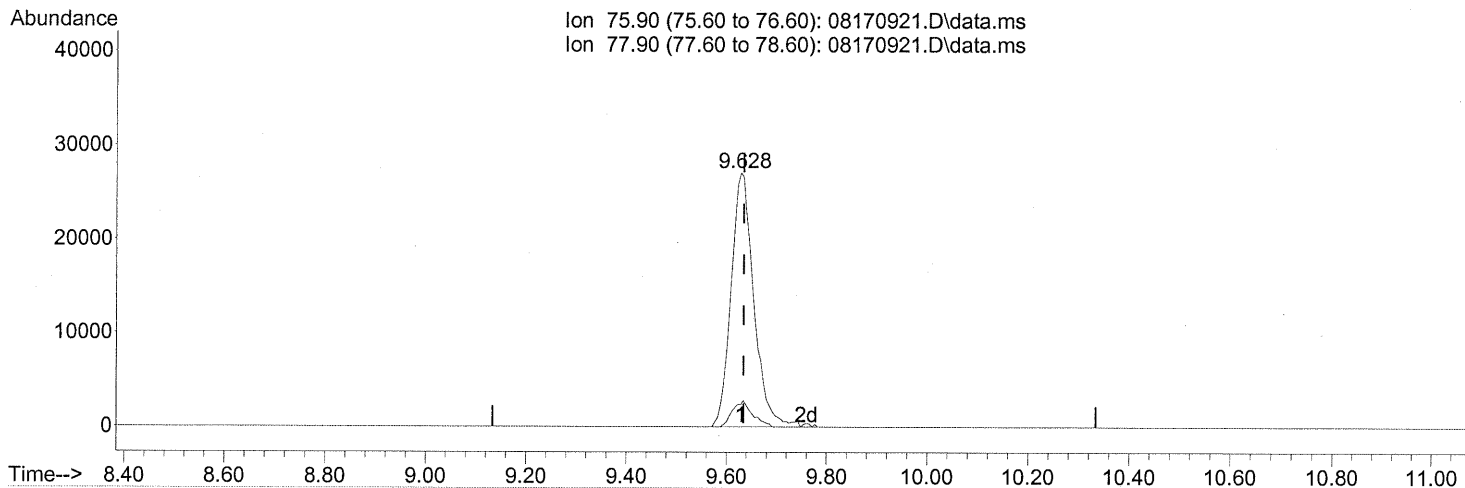
response 3319

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	144.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.628min (-0.006) 2.32ng

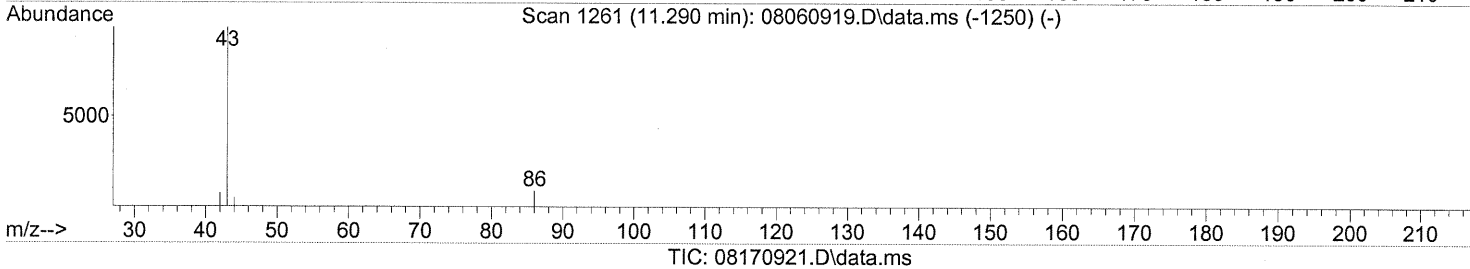
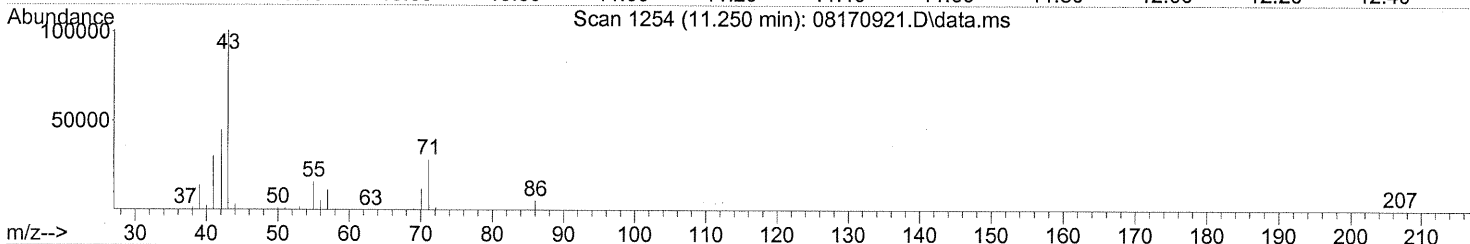
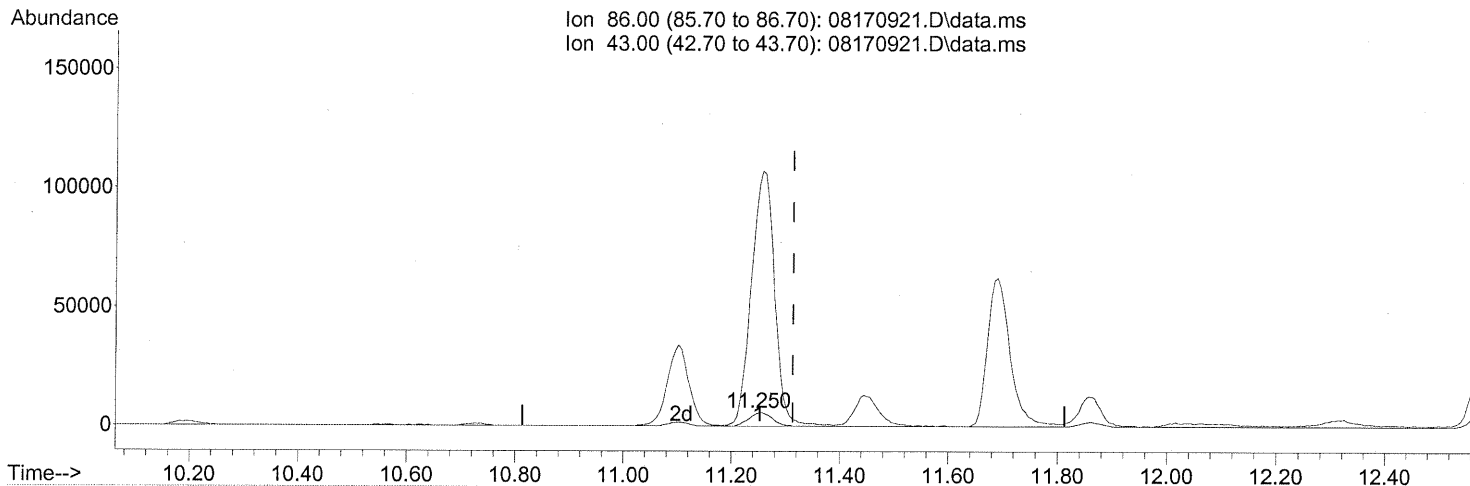
response 85606

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170921.D
Acq On : 17 Aug 2009 19:23
Operator : WA
Sample : P0902721-014 (1000mL)
Misc : Env. Health & Engineering 100203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(26) Vinyl Acetate (T)
11.250min (-0.063) 10.37ng
response 16432

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1922.01#
0.00	0.00	0.00
0.00	0.00	0.00

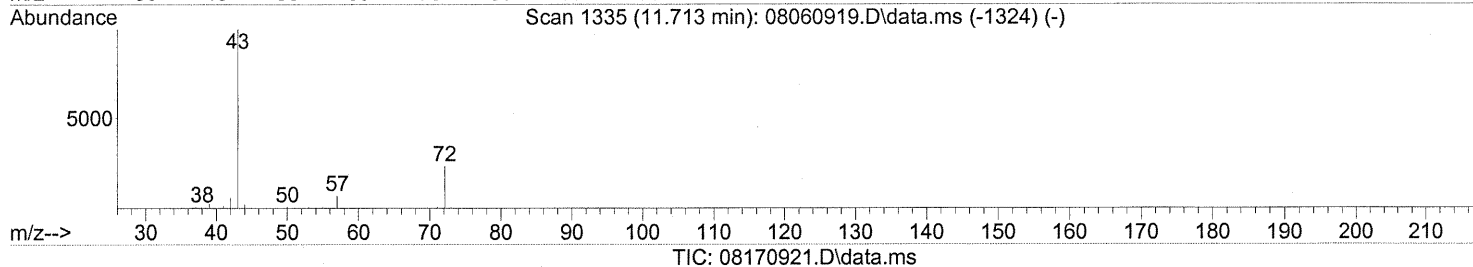
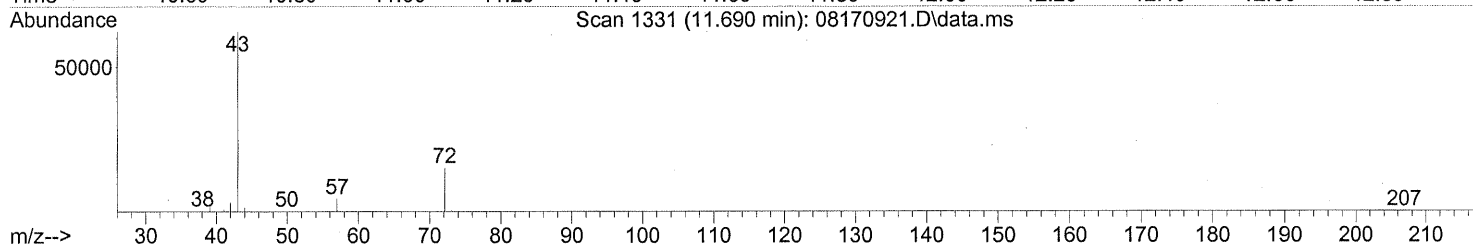
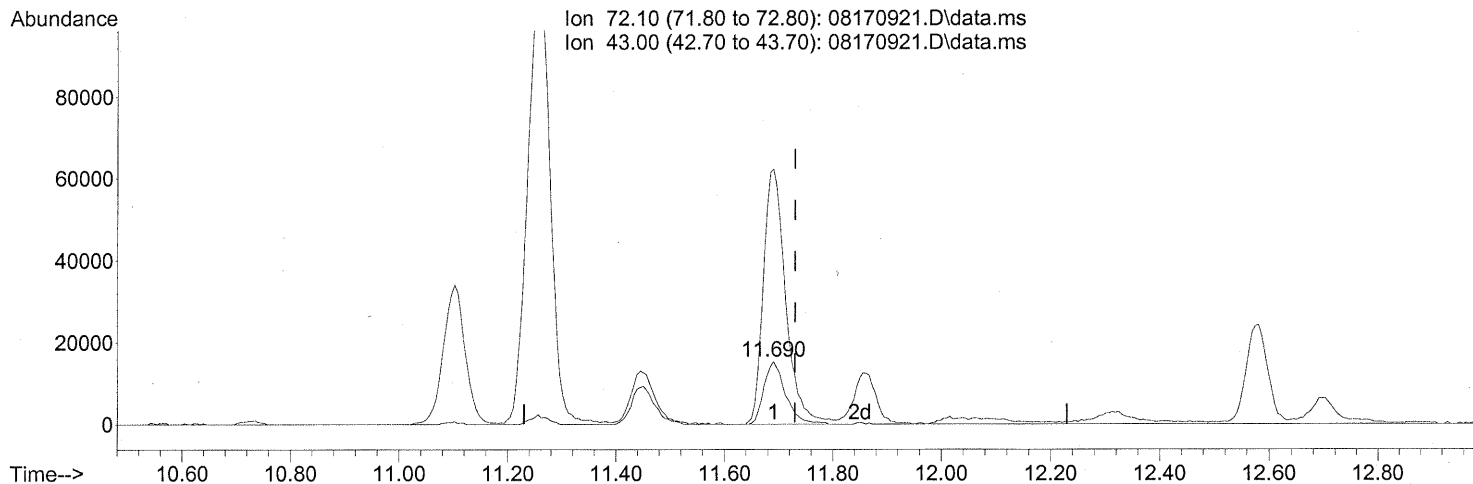
FP in 8/20/09

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.690min (-0.040) 6.08ng

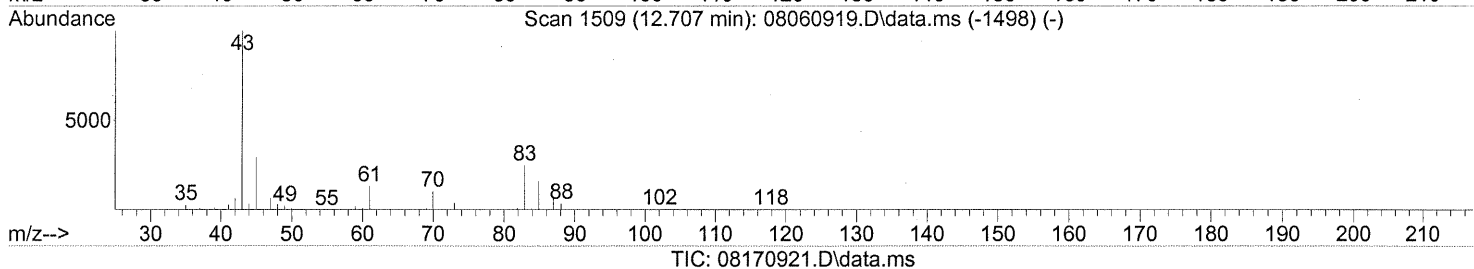
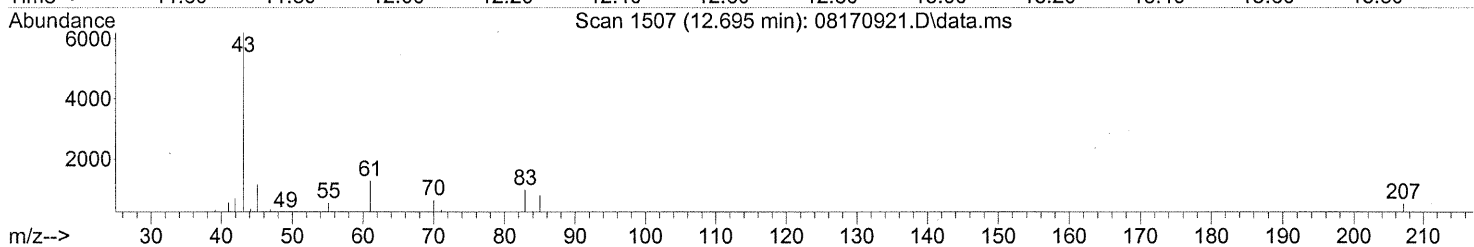
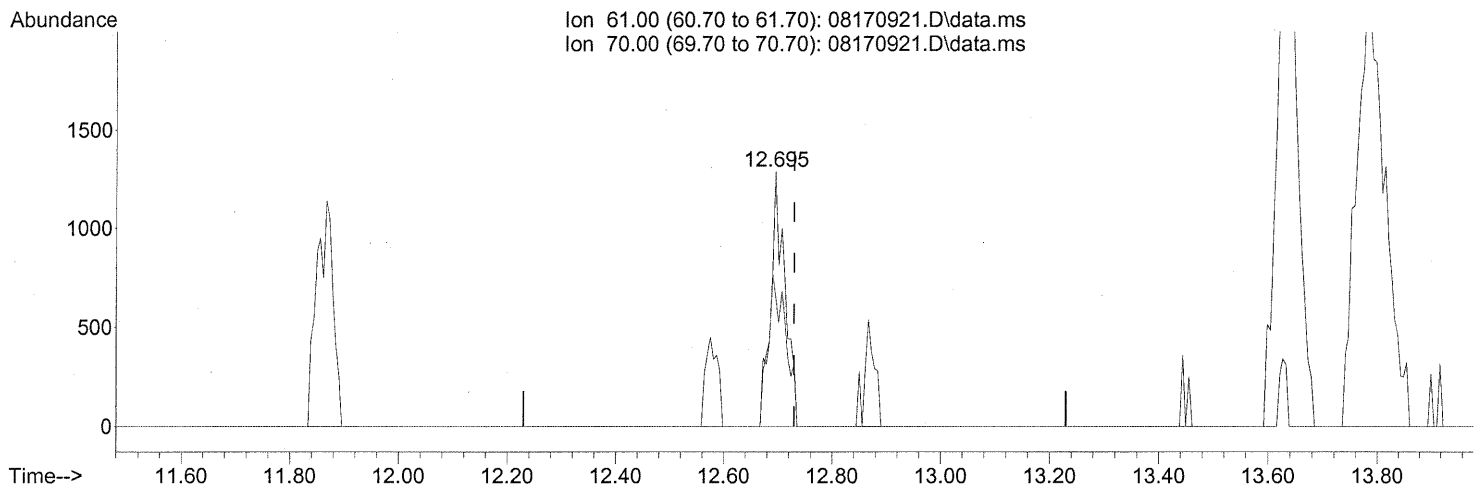
response 42732

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	422.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.695min (-0.034) 0.65ng

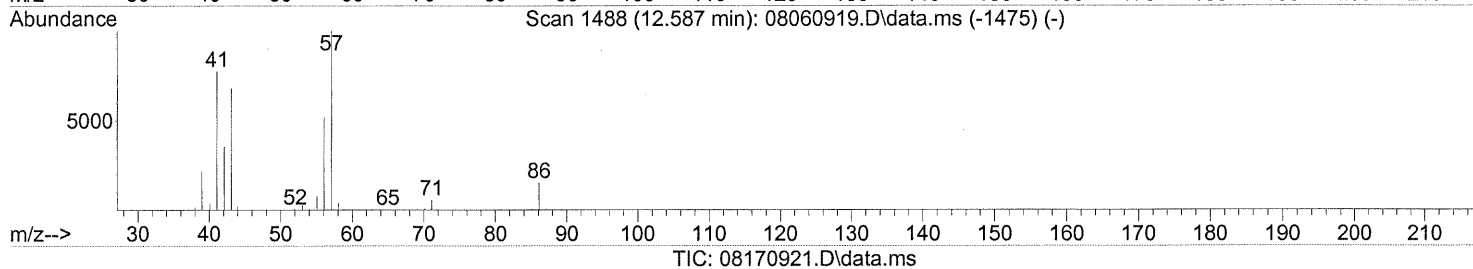
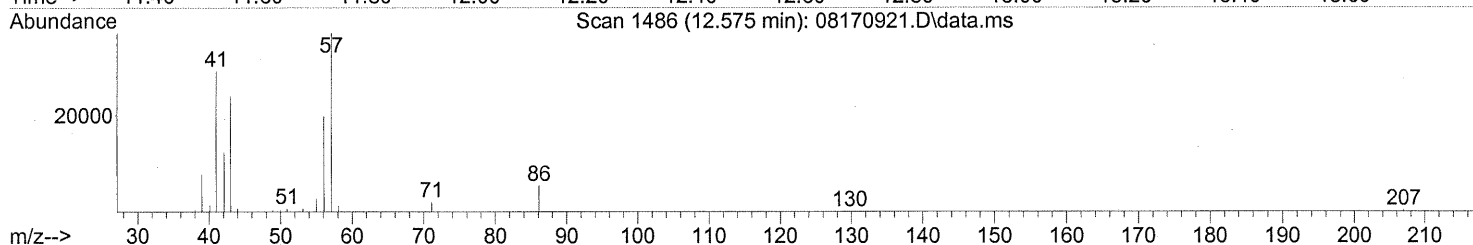
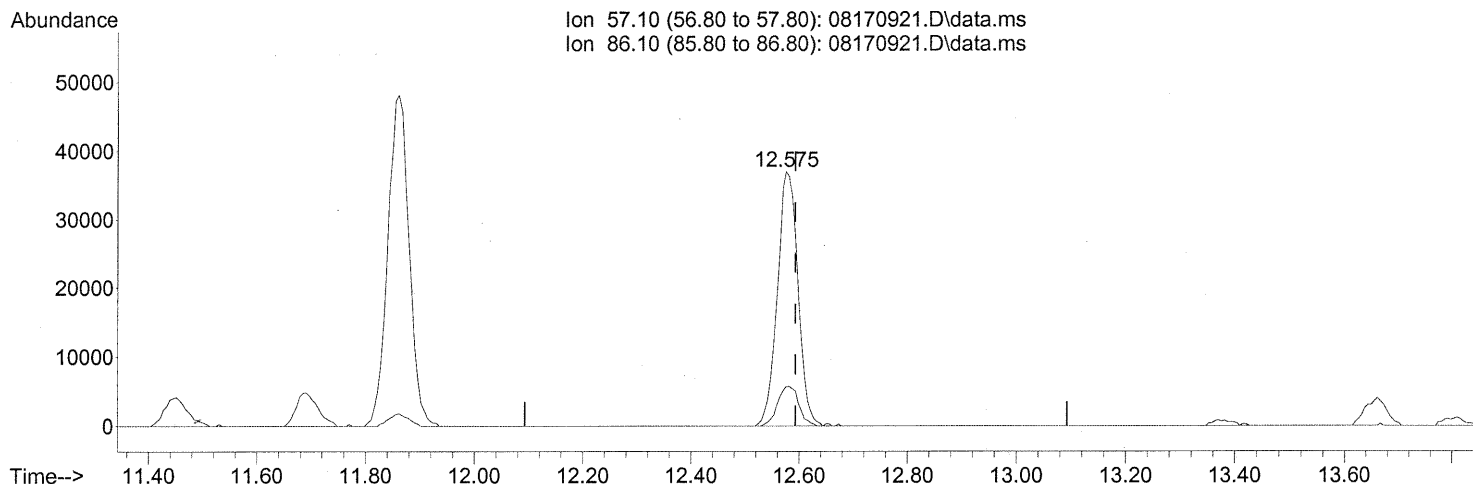
response 2365

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	75.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



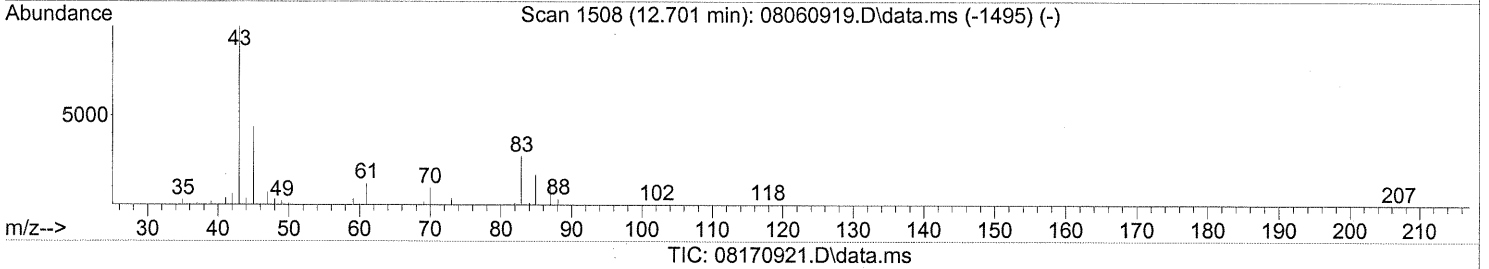
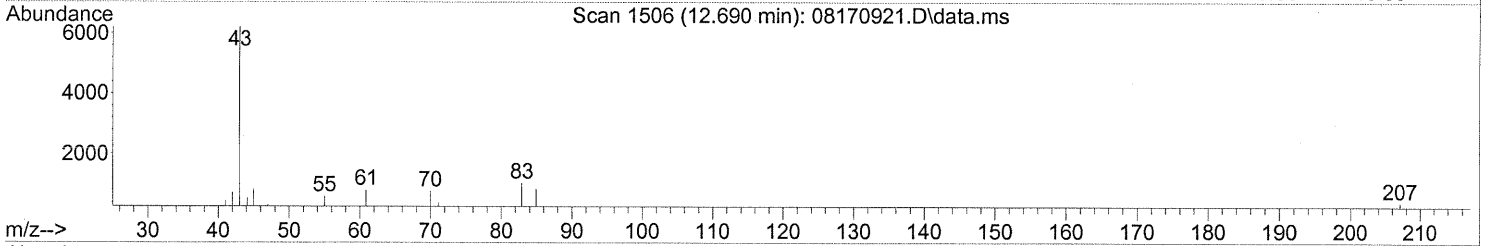
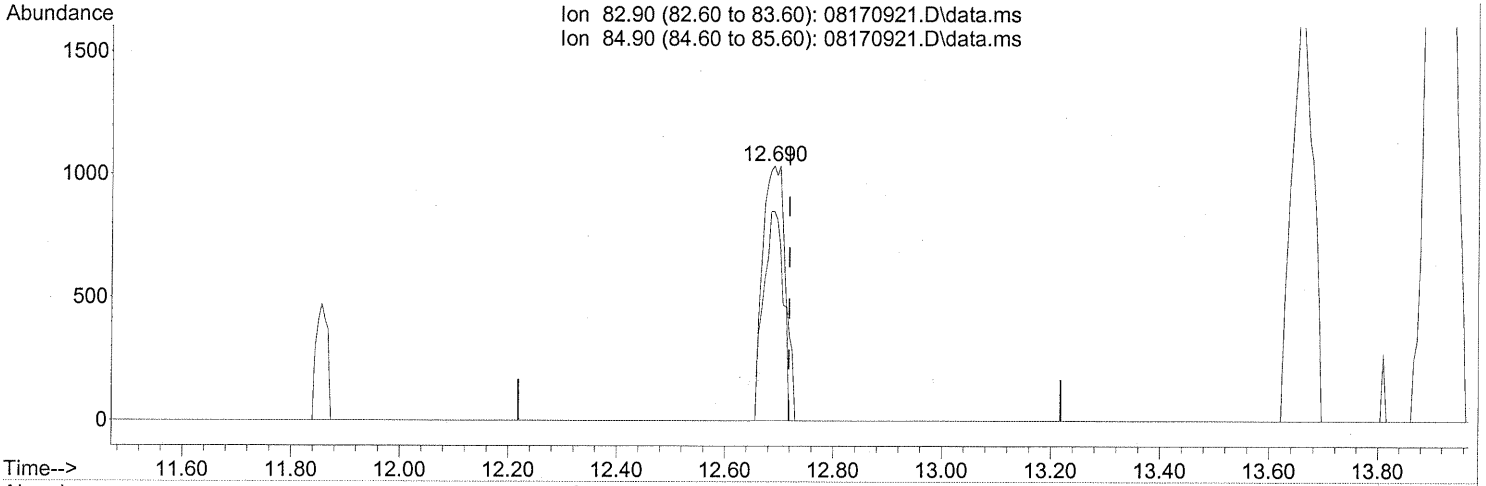
(31) n-Hexane (T)
 12.575min (-0.017) 5.21ng
 response 97726

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170921.D
Acq On : 17 Aug 2009 19:23
Operator : WA
Sample : P0902721-014 (1000mL)
Misc : Env. Health & Engineering 100203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



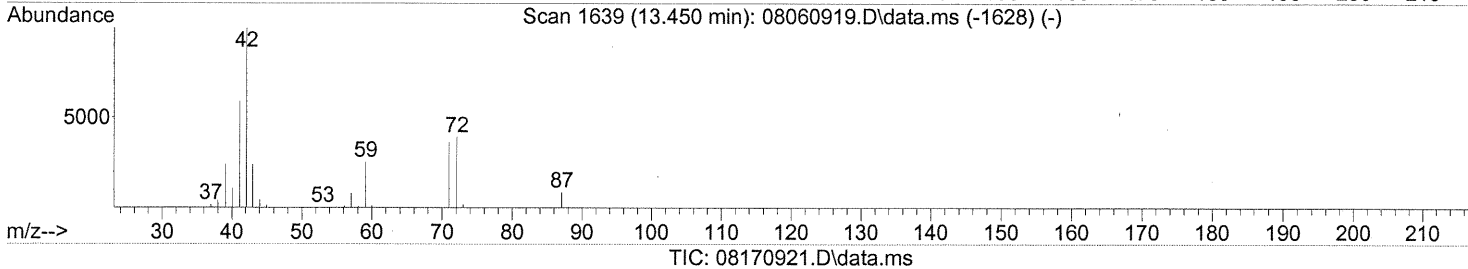
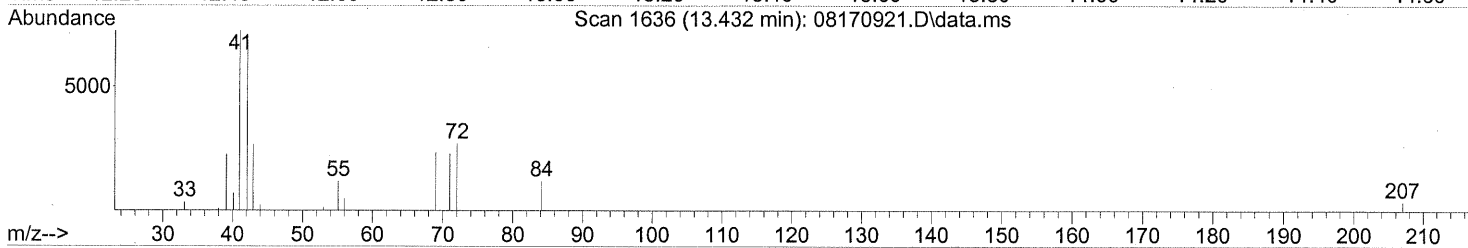
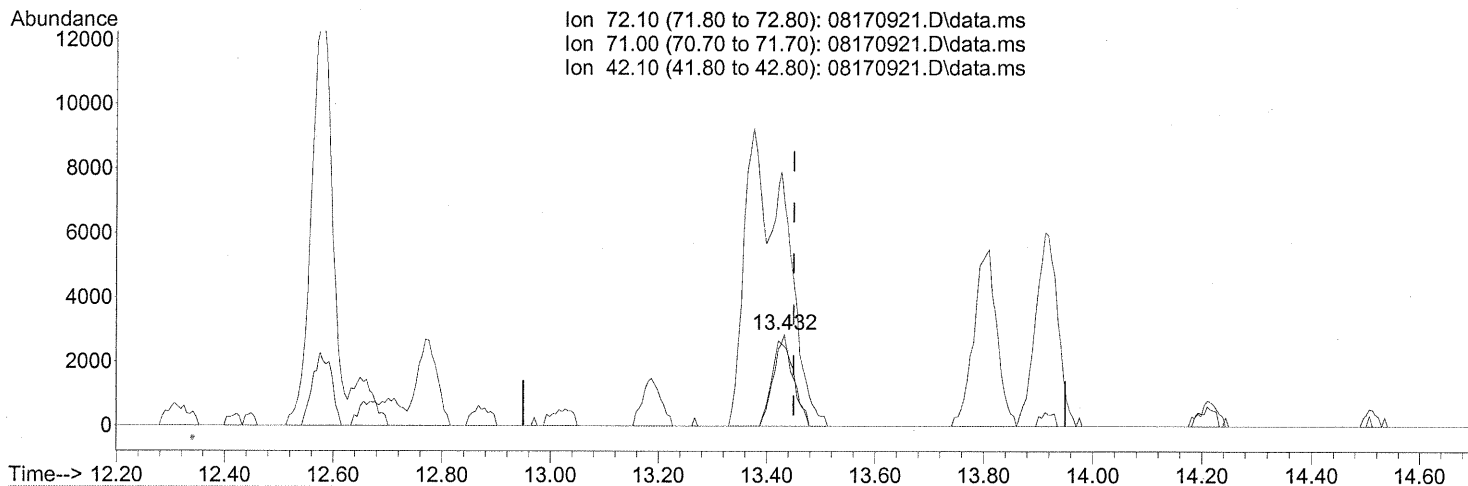
(32) Chloroform (T)
12.690min (-0.029) 0.18ng
response 3024

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	70.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170921.D
Acq On : 17 Aug 2009 19:23
Operator : WA
Sample : P0902721-014 (1000mL)
Misc : Env. Health & Engineering 100203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.432min (-0.017) 1.02ng

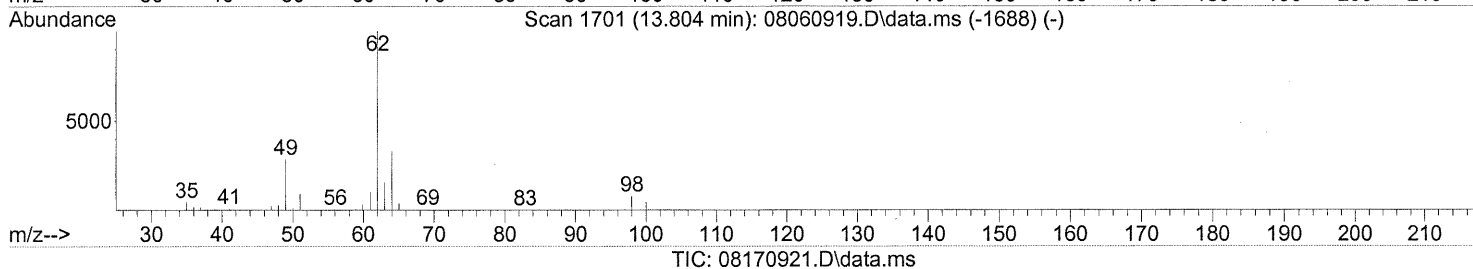
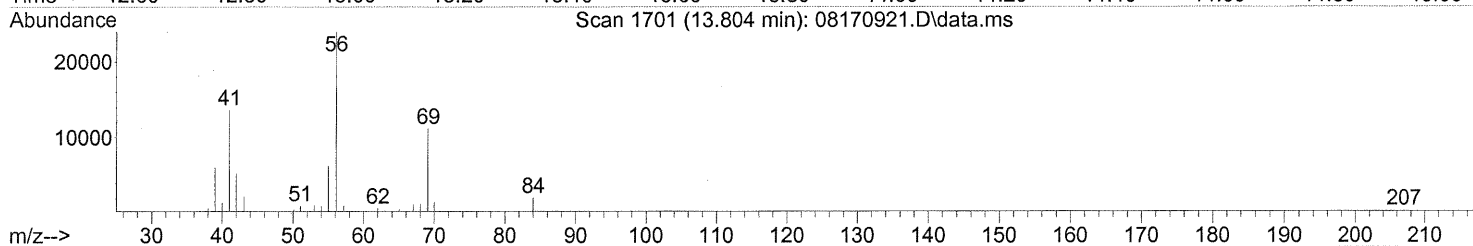
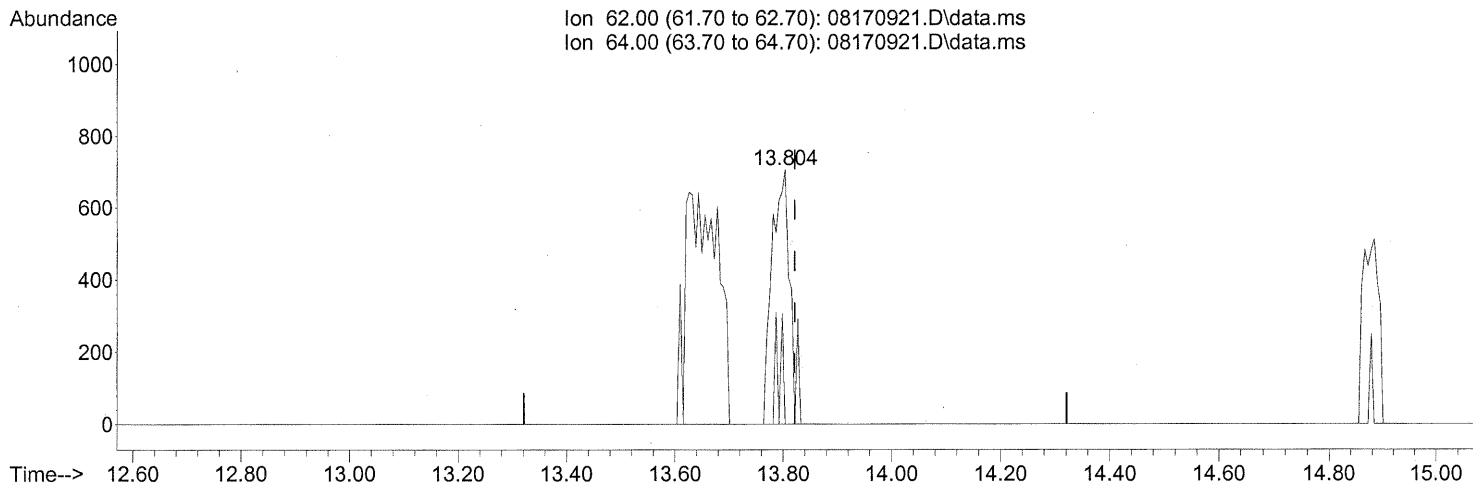
response 7637

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	92.26
42.10	253.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



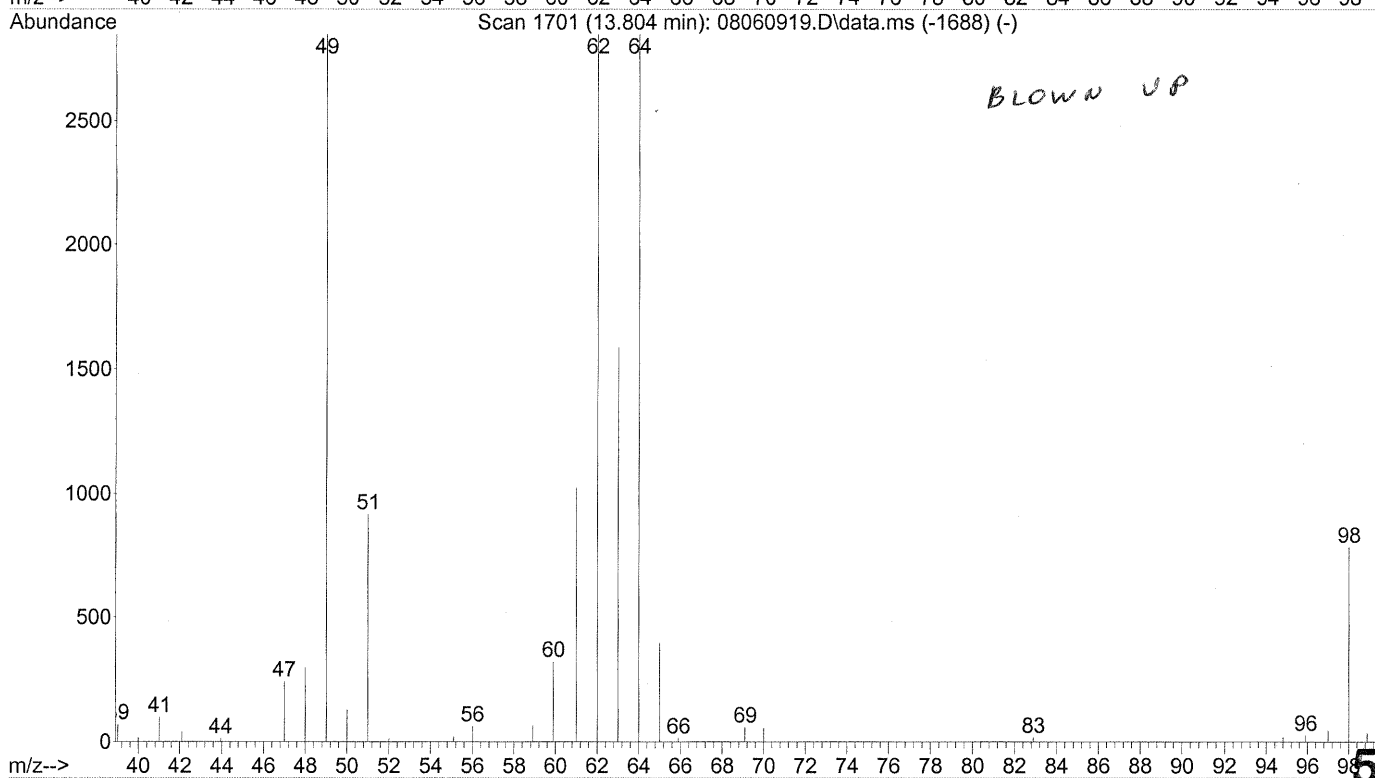
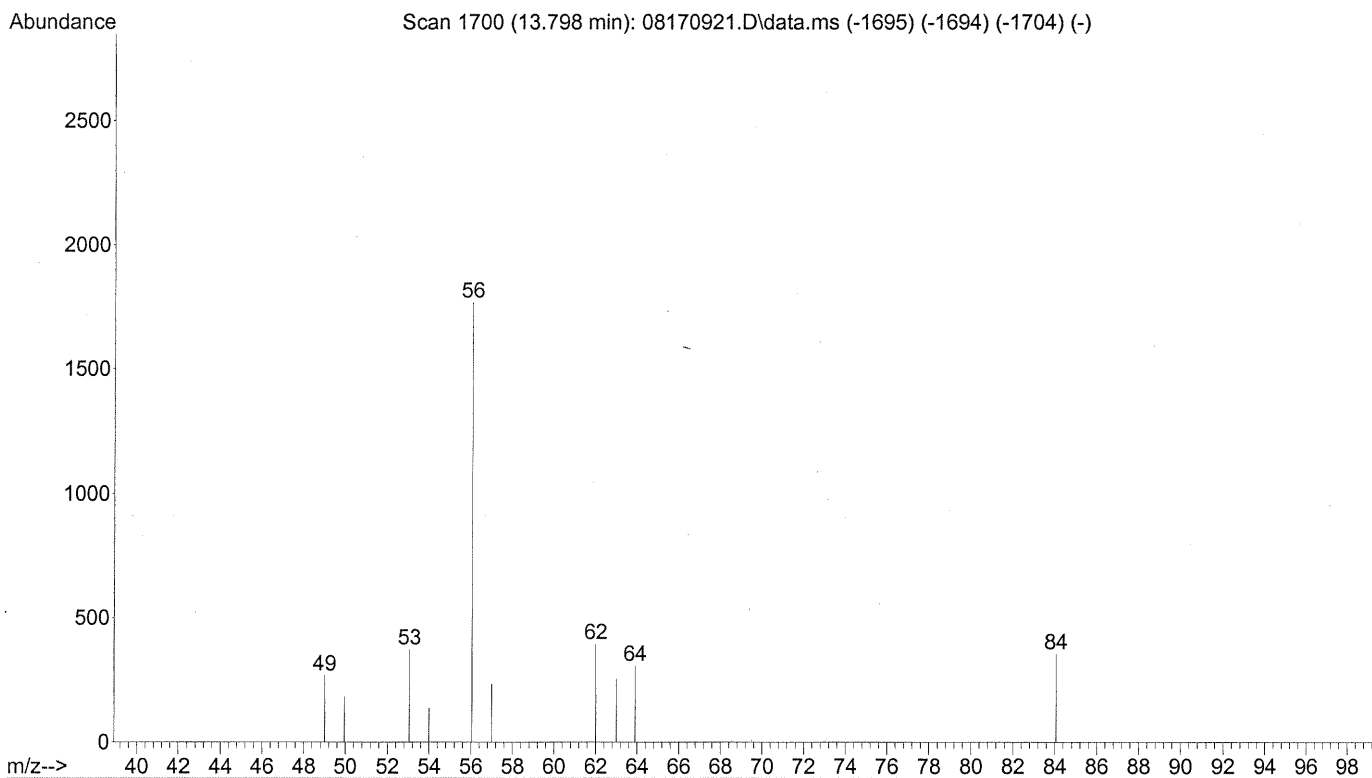
(36) 1,2-Dichloroethane (T)

13.804min (-0.017) 0.11ng

response 1637

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	12.95
0.00	0.00	0.00
0.00	0.00	0.00

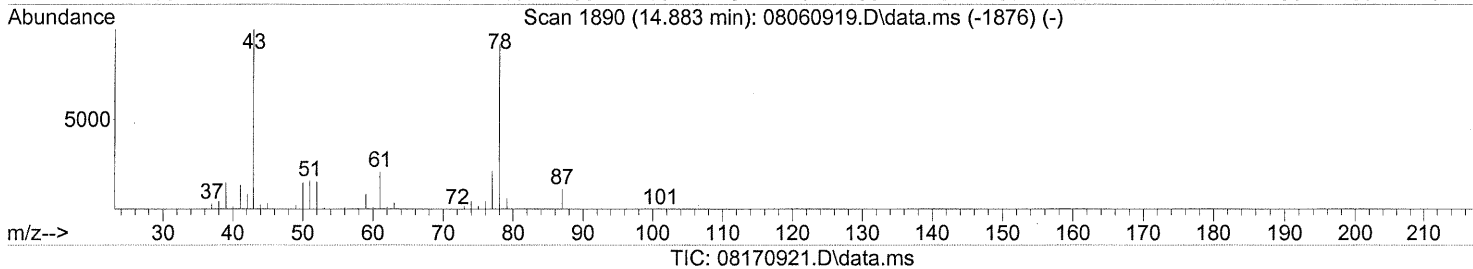
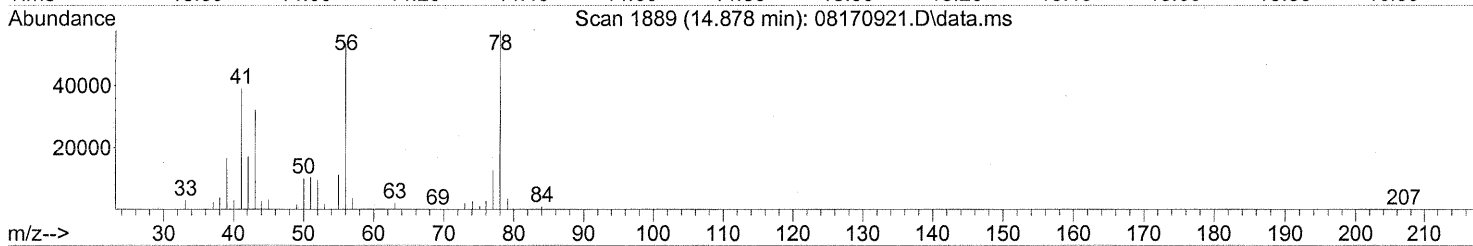
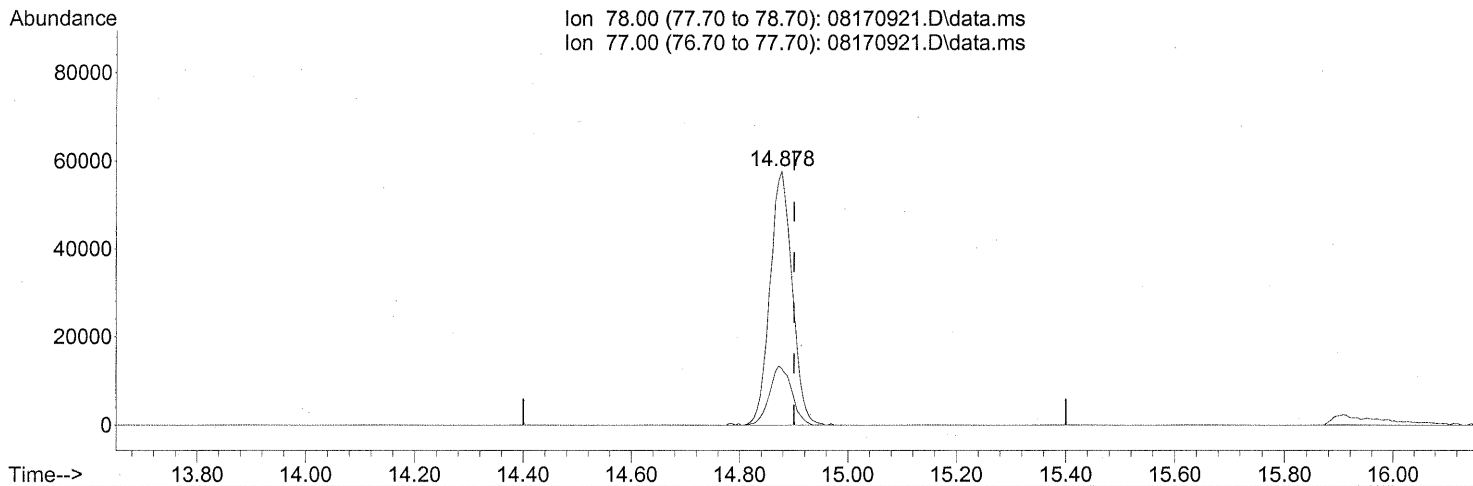
File : J:\MS13\DATA\2009_08\17\08170921.D
Operator : WA
Acquired : 17 Aug 2009 19:23 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0902721-014 (1000mL)
Misc Info : Env. Health & Engineering 100203
Vial Number: 7



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170921.D
Acq On : 17 Aug 2009 19:23
Operator : WA
Sample : P0902721-014 (1000mL)
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Quant Time: Aug 17 20:16:46 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



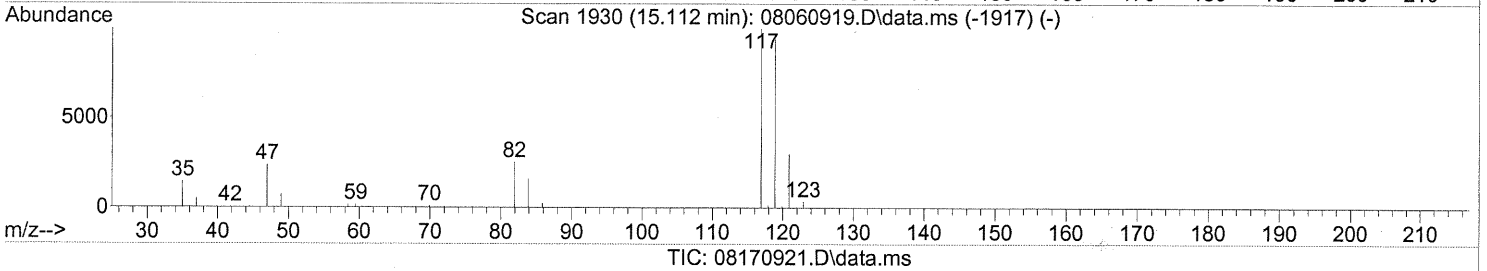
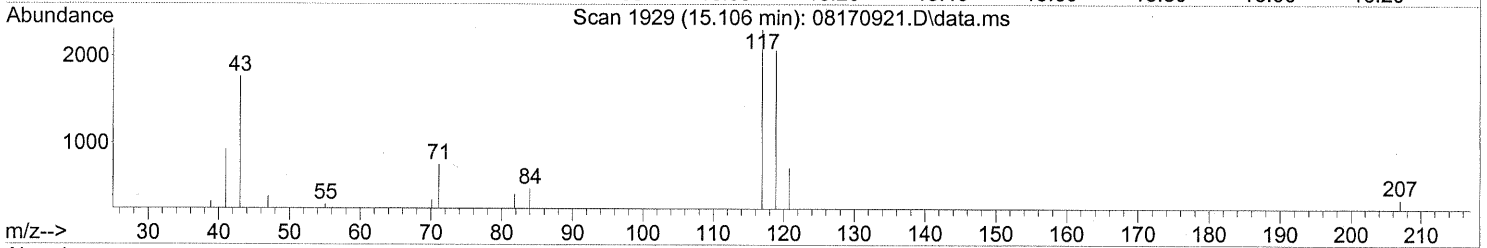
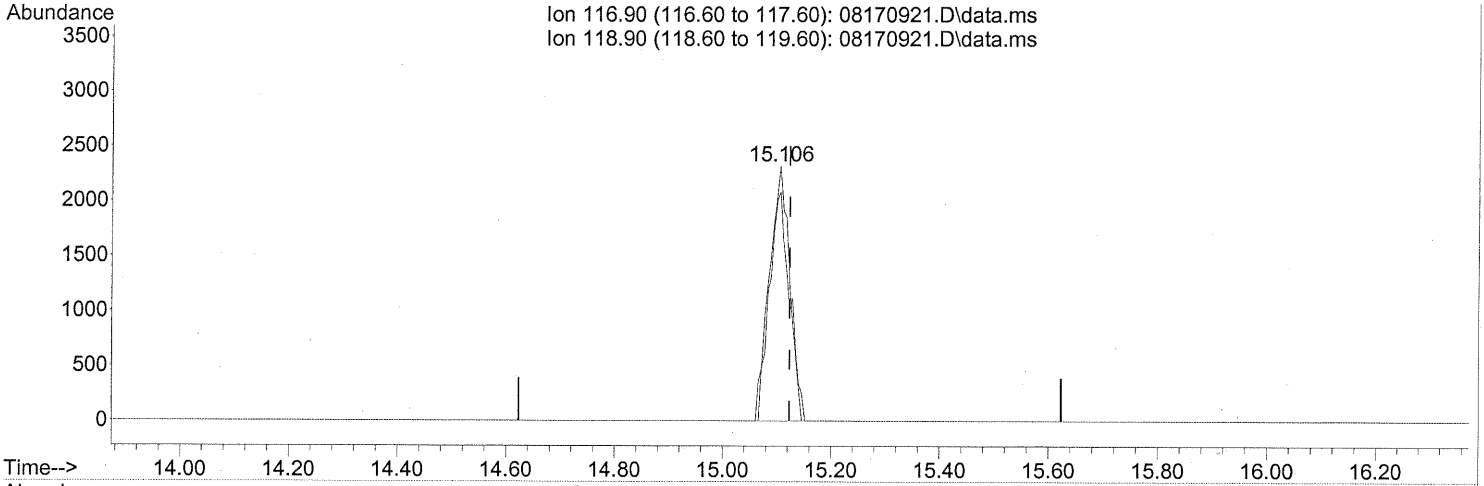
(41) Benzene (T)
14.878min (-0.023) 3.85ng
response 163588

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170921.D
Acq On : 17 Aug 2009 19:23
Operator : WA
Sample : P0902721-014 (1000mL)
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.43ng

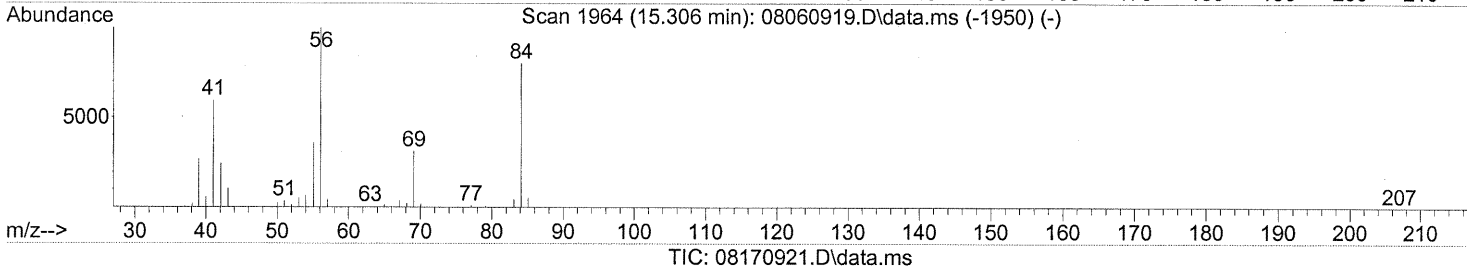
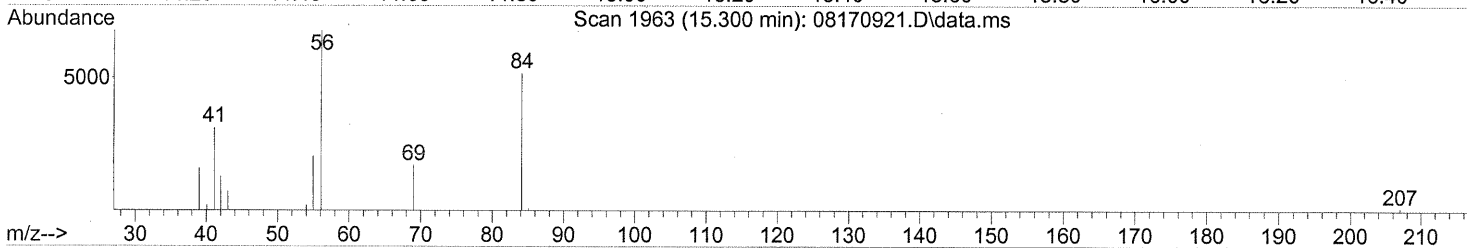
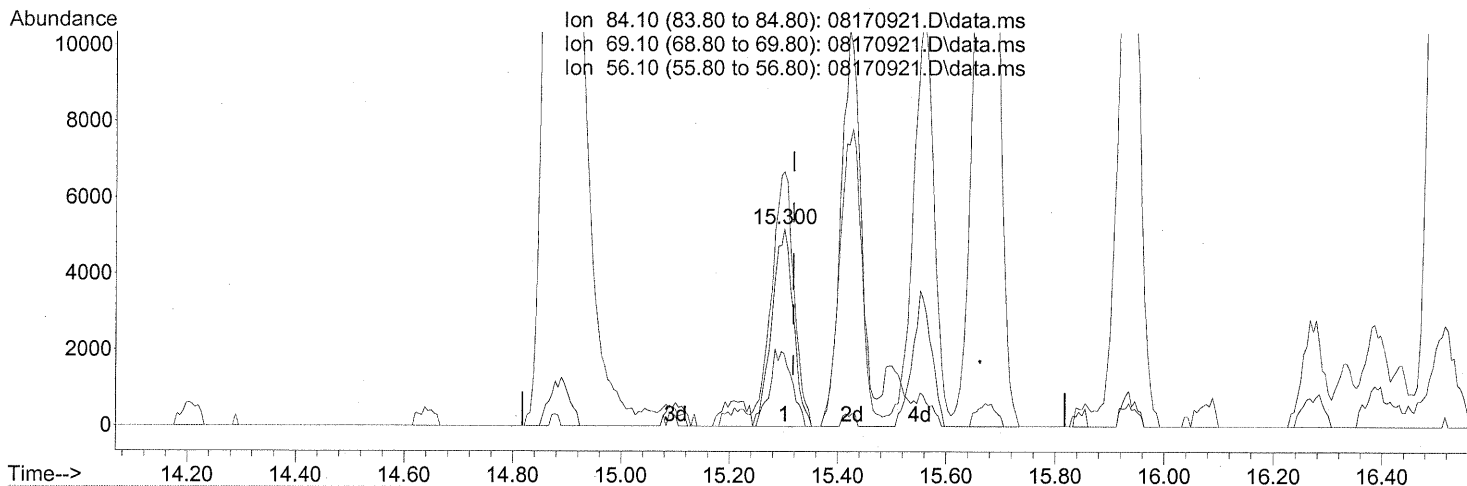
response 5875

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	93.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
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 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



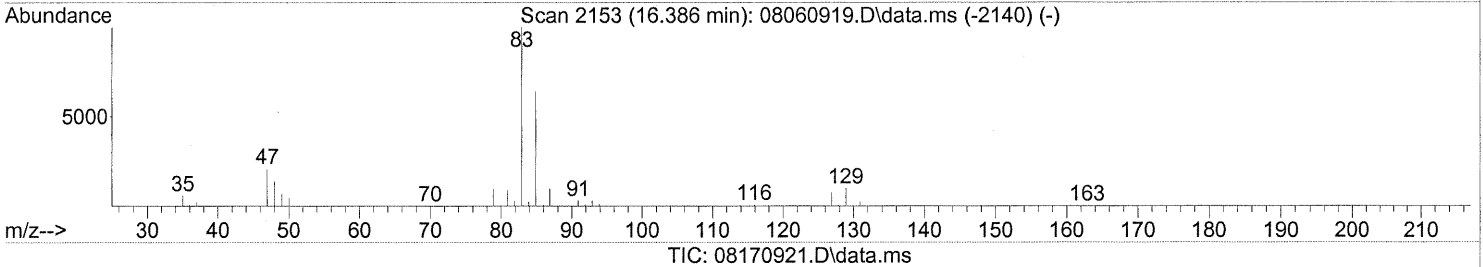
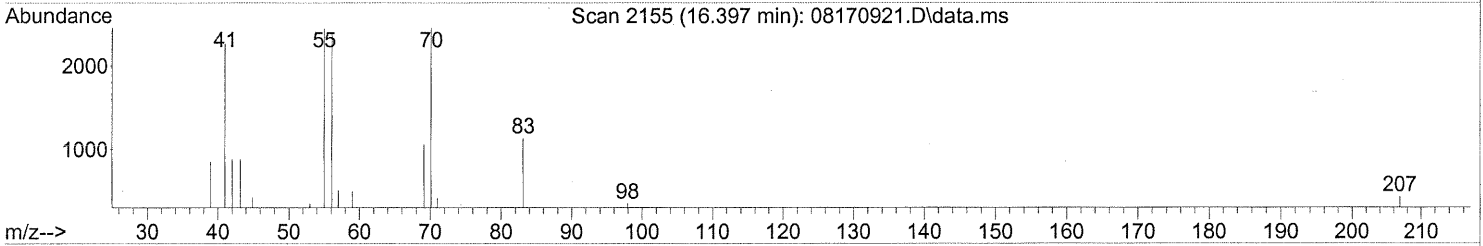
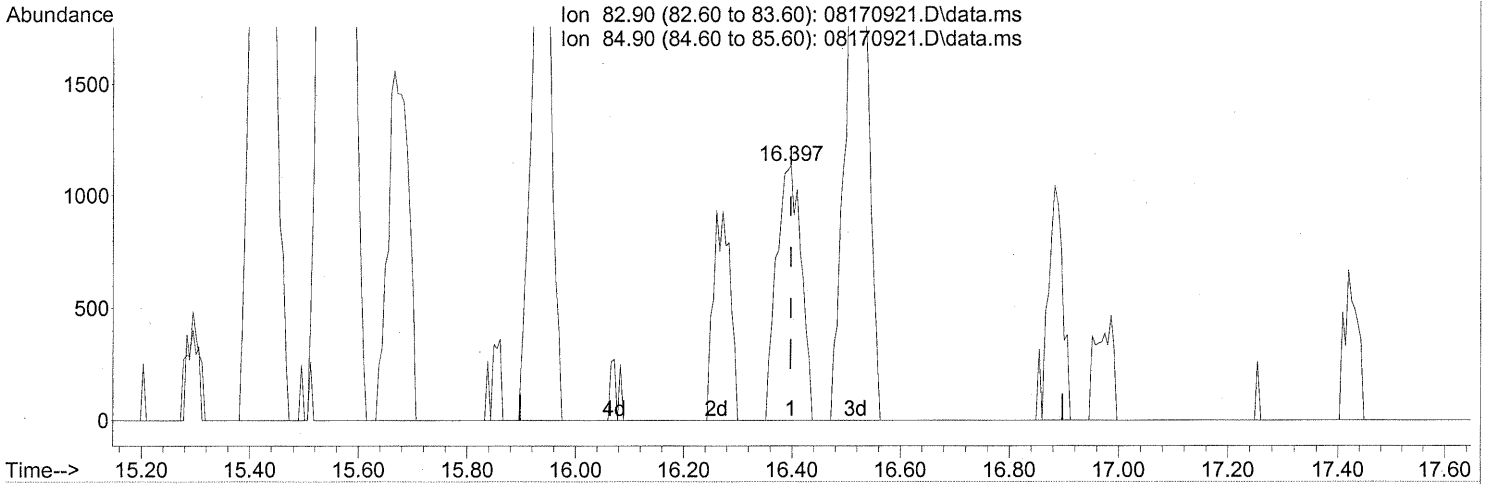
(43) Cyclohexane (T)
 15.300min (-0.017) 0.92ng
 response 14341

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	39.93
56.10	127.50	135.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170921.D
Acq On : 17 Aug 2009 19:23
Operator : WA
Sample : P0902721-014 (1000mL)
Misc : Env. Health & Engineering 100203
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Quant Time: Aug 17 20:16:46 2009
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QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.397min (+0.000) 0.26ng

response 3584

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

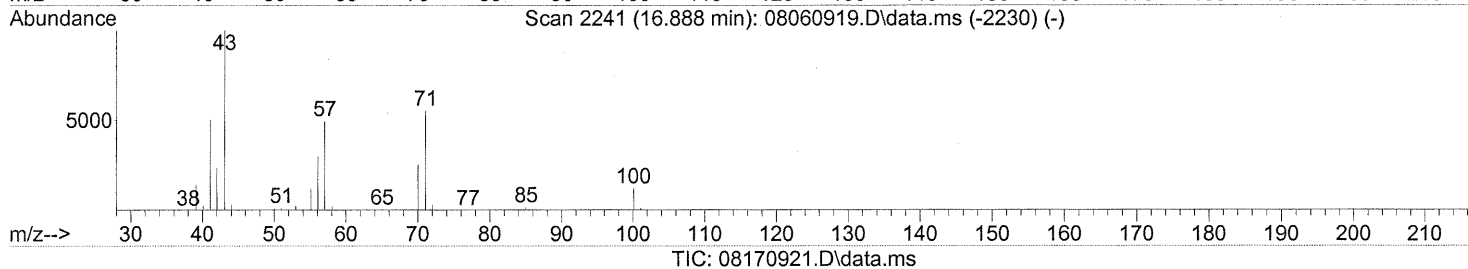
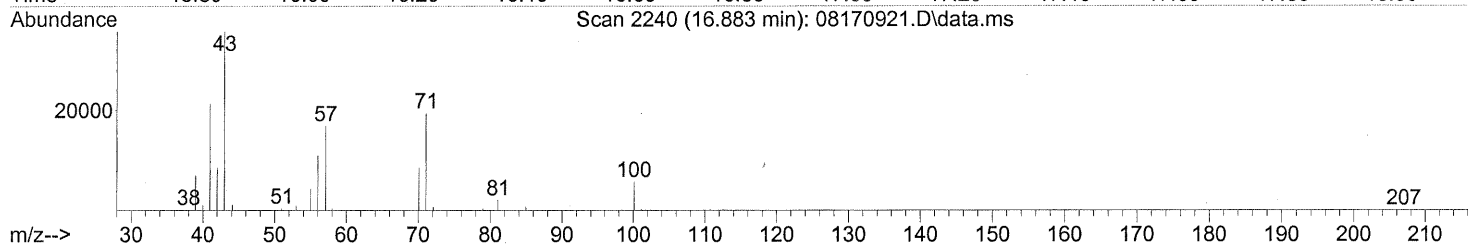
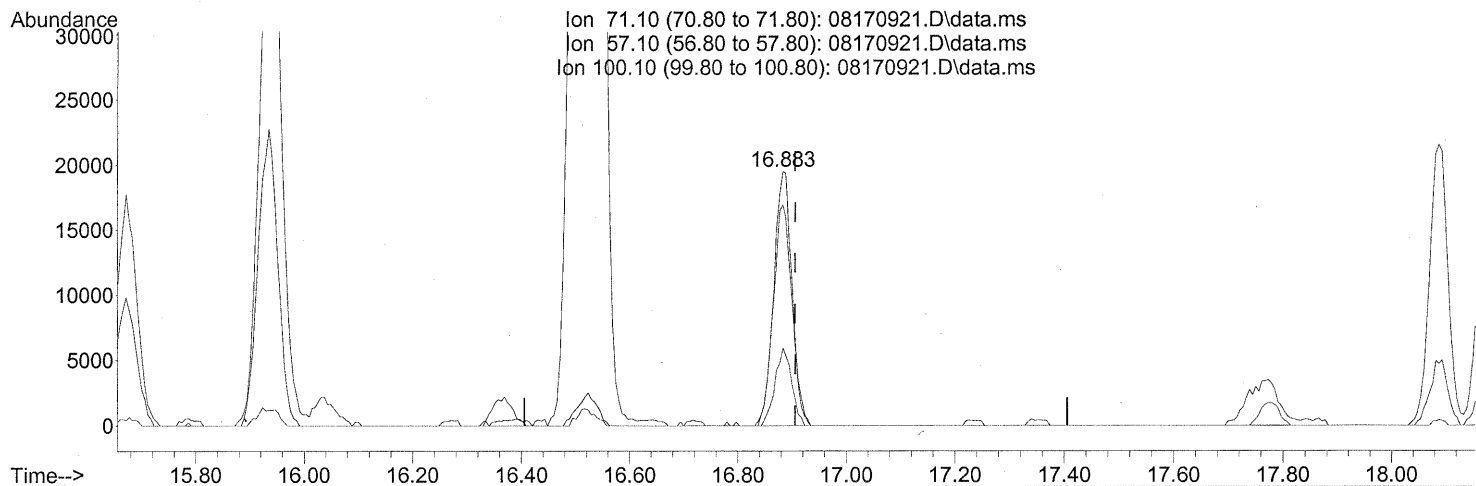
FR W 8/20/09

W 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



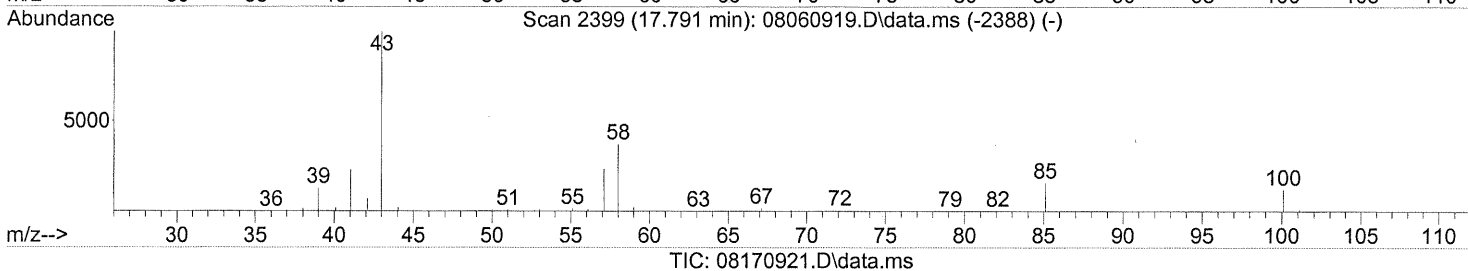
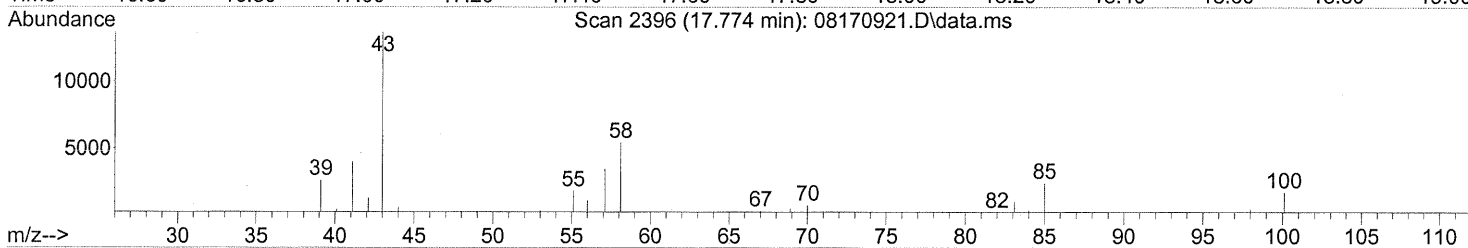
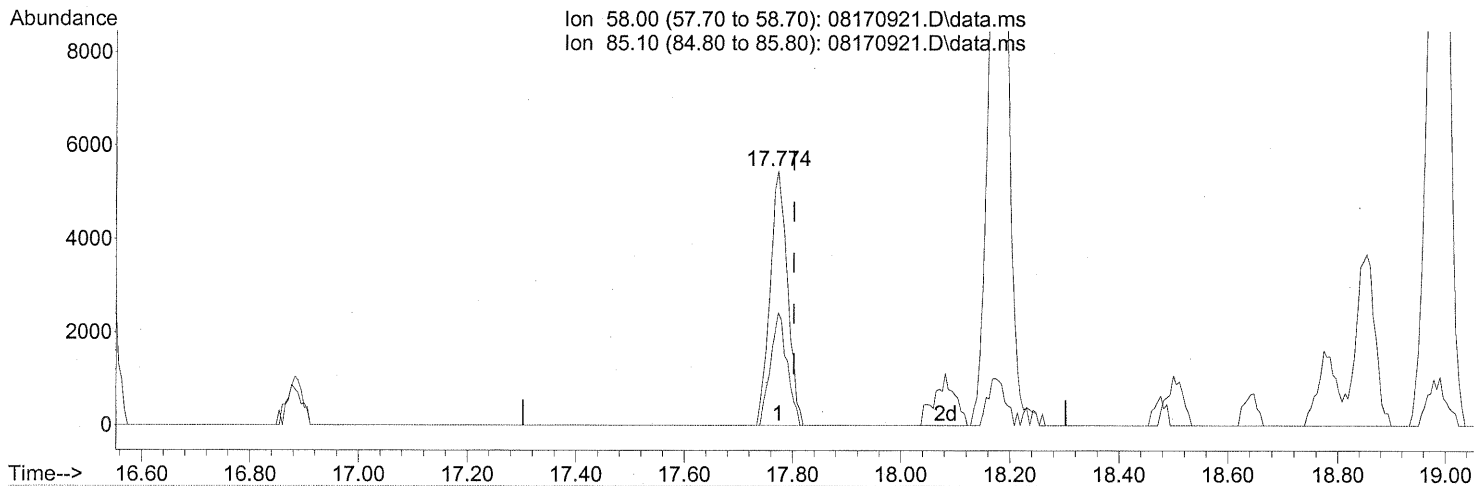
(51) n-Heptane (T)
 16.883min (-0.023) 4.01ng
 response 45648

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	88.84
100.10	26.40	27.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.774min (-0.029) 1.21ng

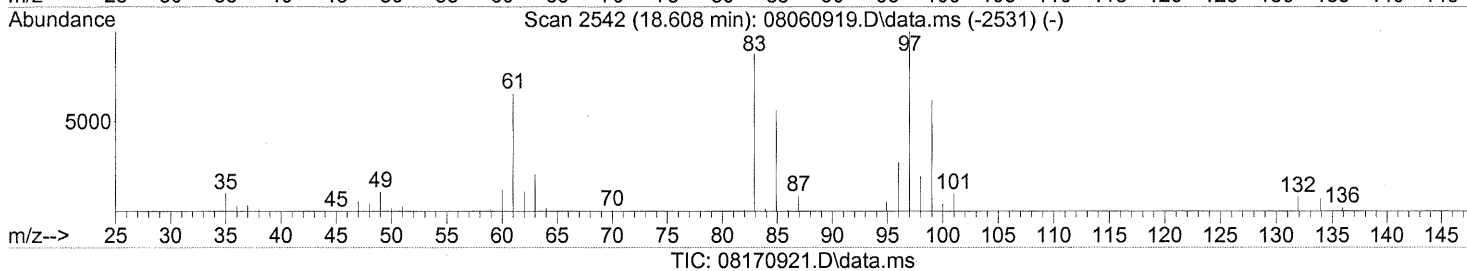
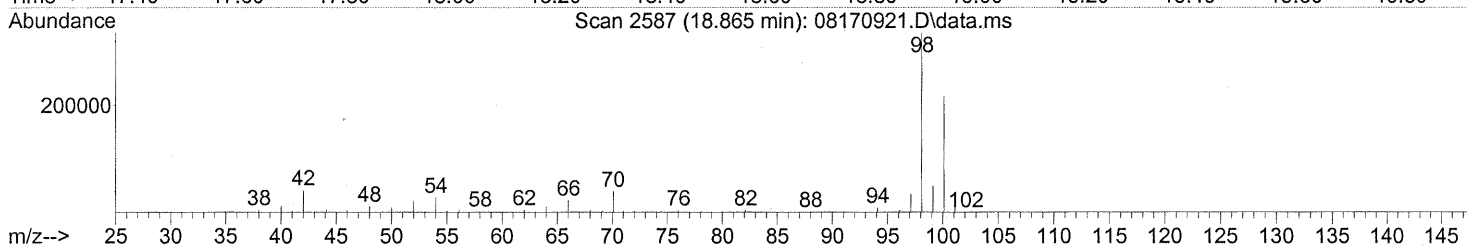
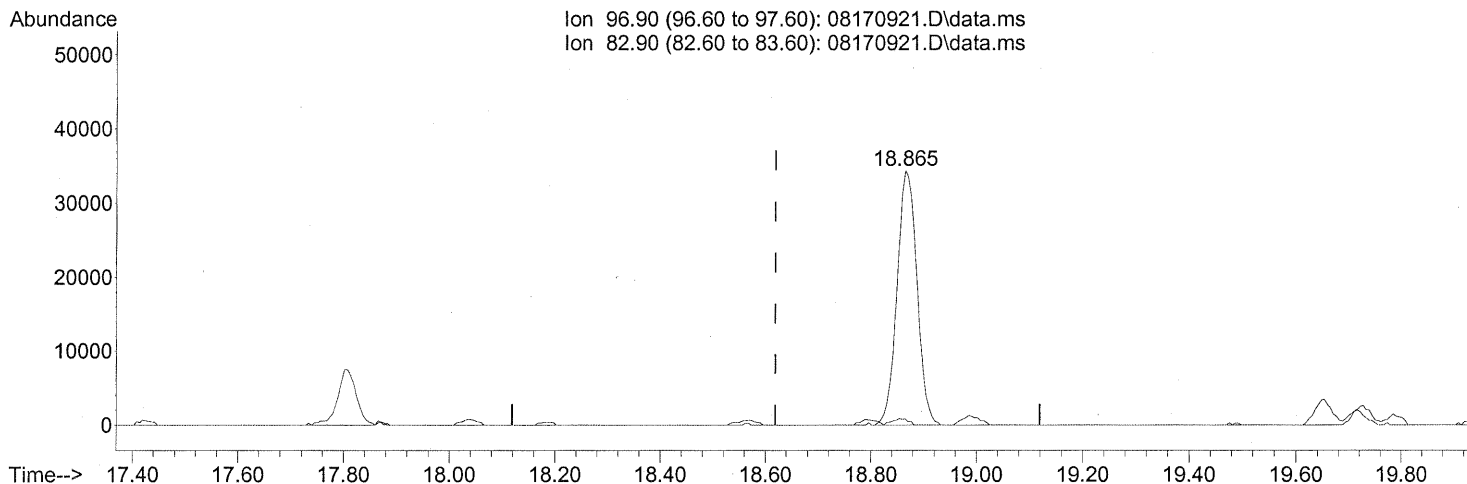
response 12336

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	42.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170921.D
Acq On : 17 Aug 2009 19:23
Operator : WA
Sample : P0902721-014 (1000mL)
Misc : Env. Health & Engineering 100203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

FP in 8/30/09

18.865min (+0.246) 9.66ng

response 90024

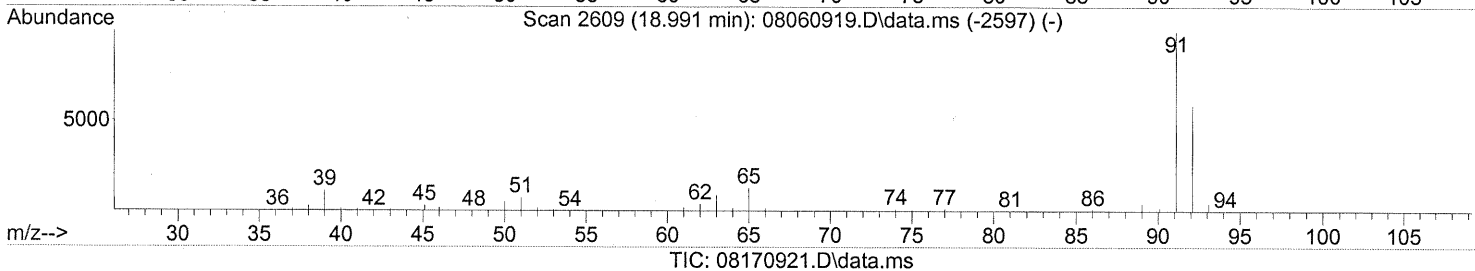
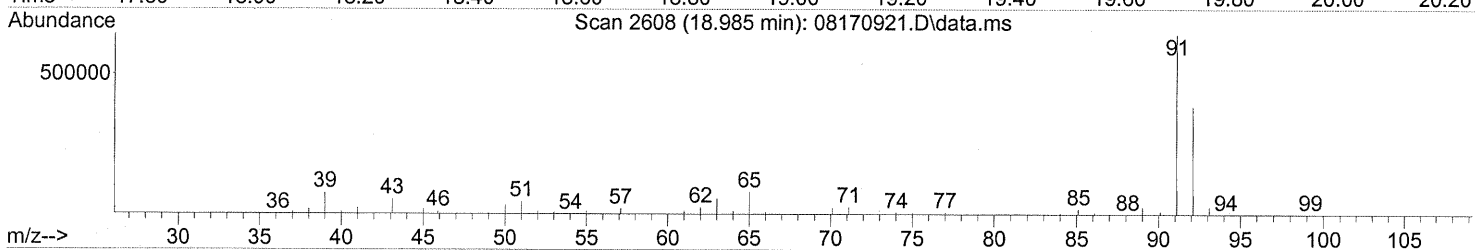
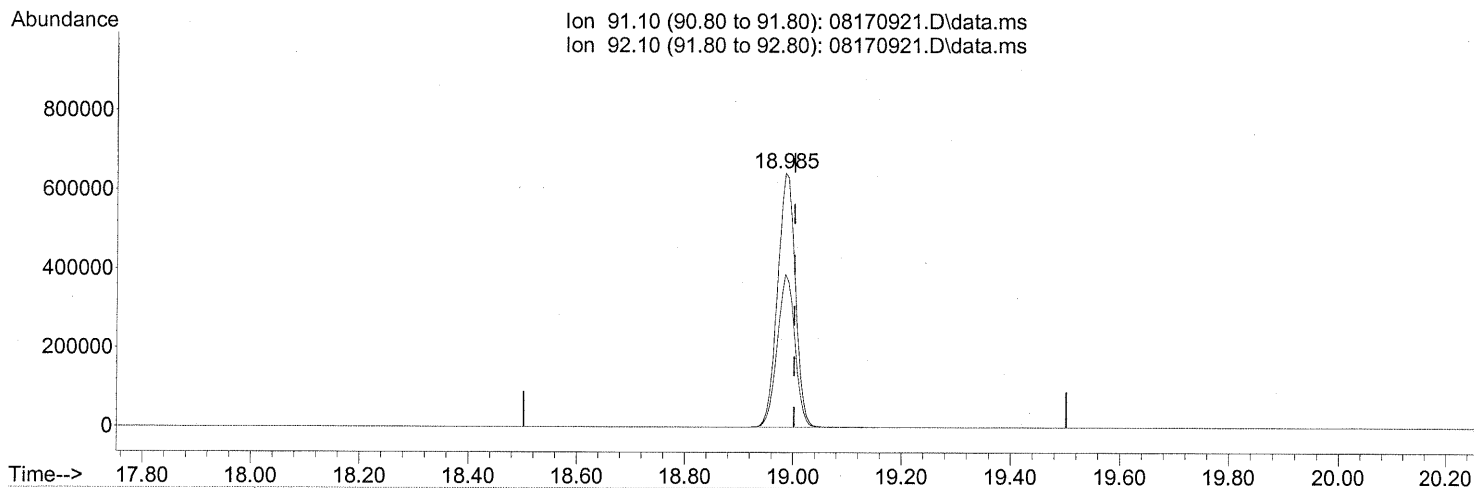
Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.98#
0.00	0.00	0.00
0.00	0.00	0.00

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170921.D
Acq On : 17 Aug 2009 19:23
Operator : WA
Sample : P0902721-014 (1000mL)
Misc : Env. Health & Engineering 100203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 37.64ng

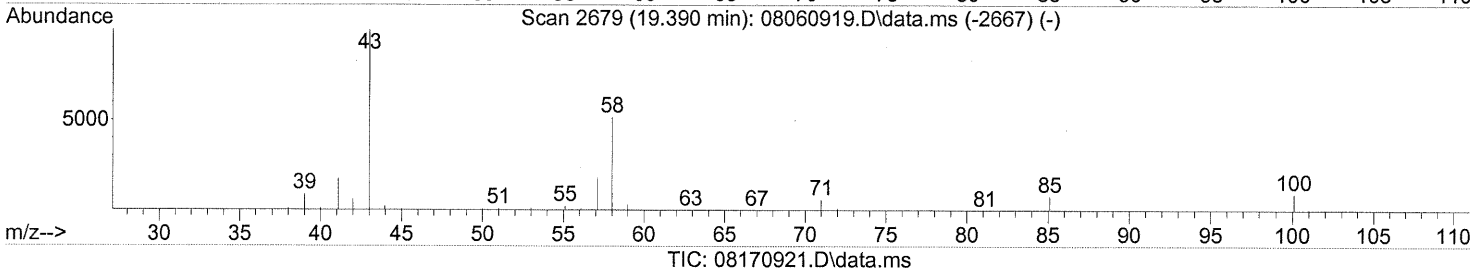
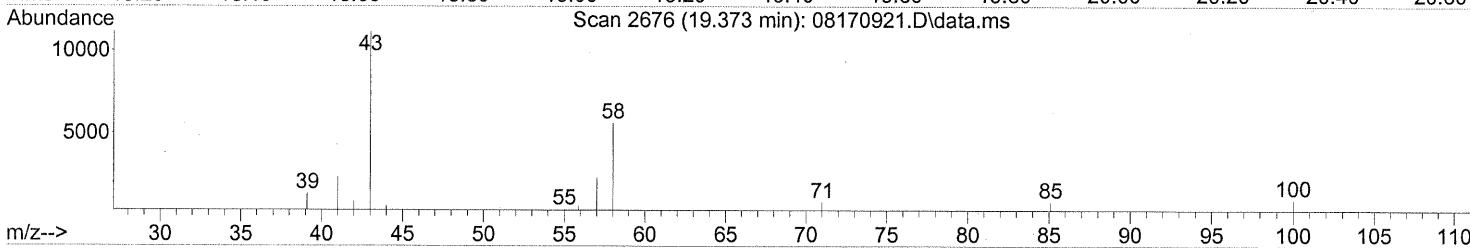
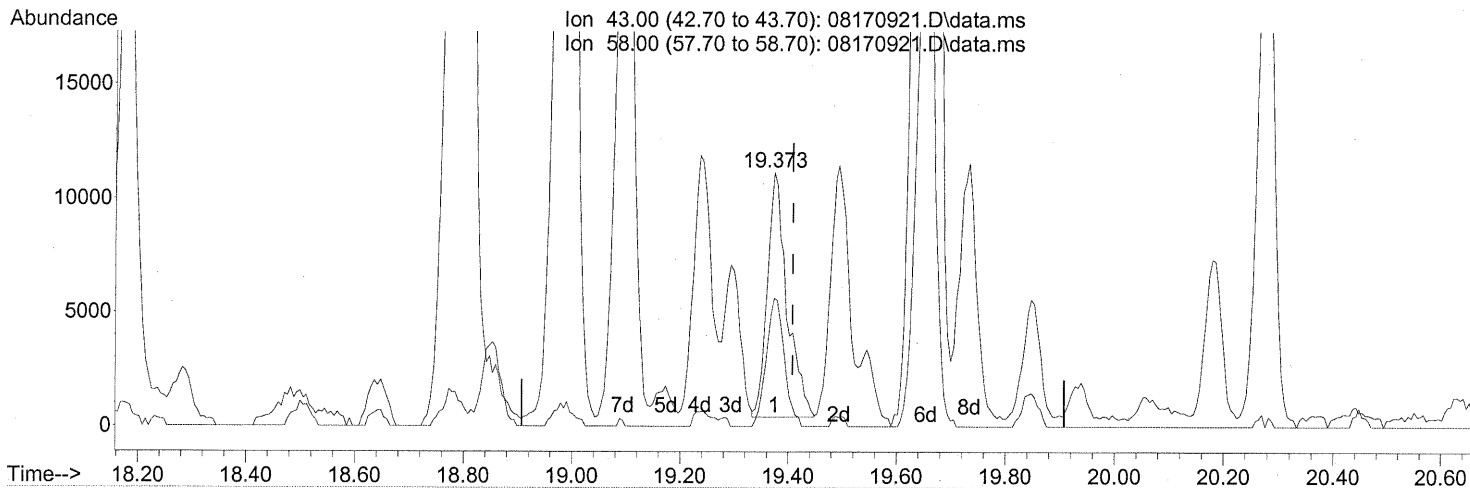
response 1481045

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



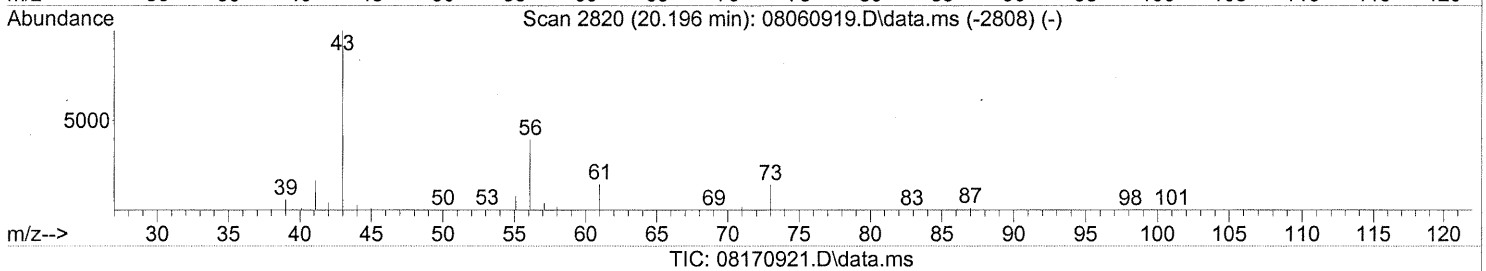
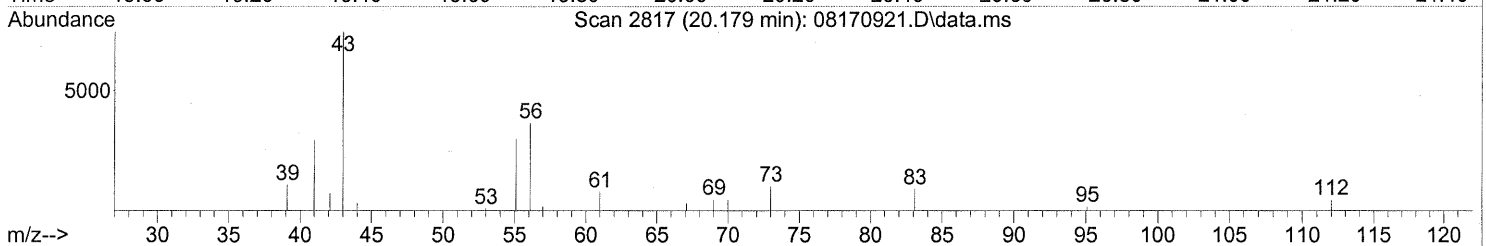
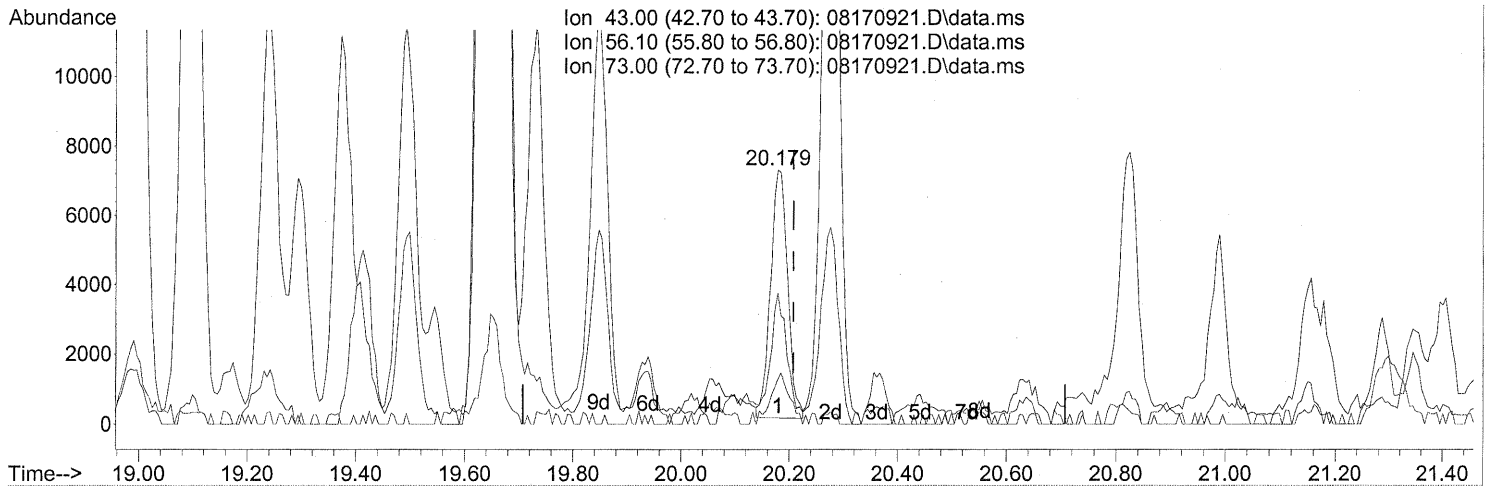
(59) 2-Hexanone (T)
 19.373min (-0.034) 1.05ng
 response 27364

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	47.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



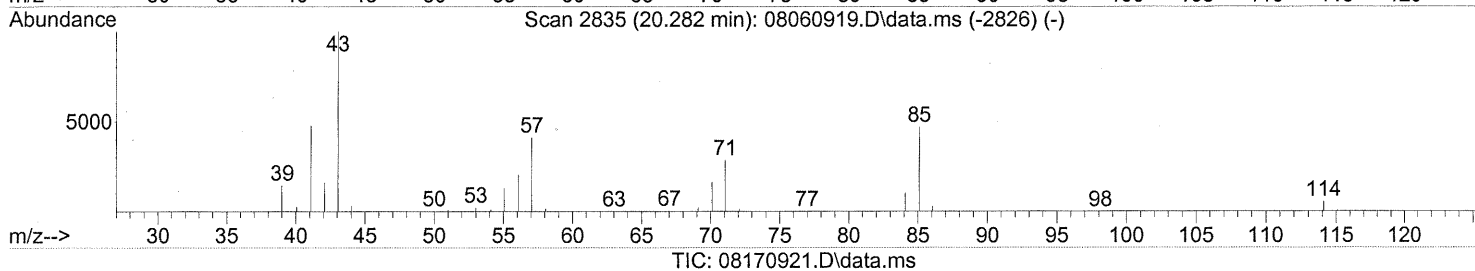
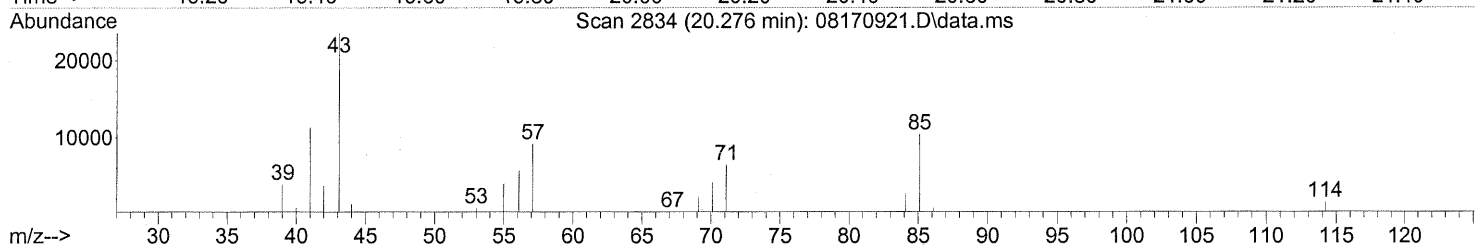
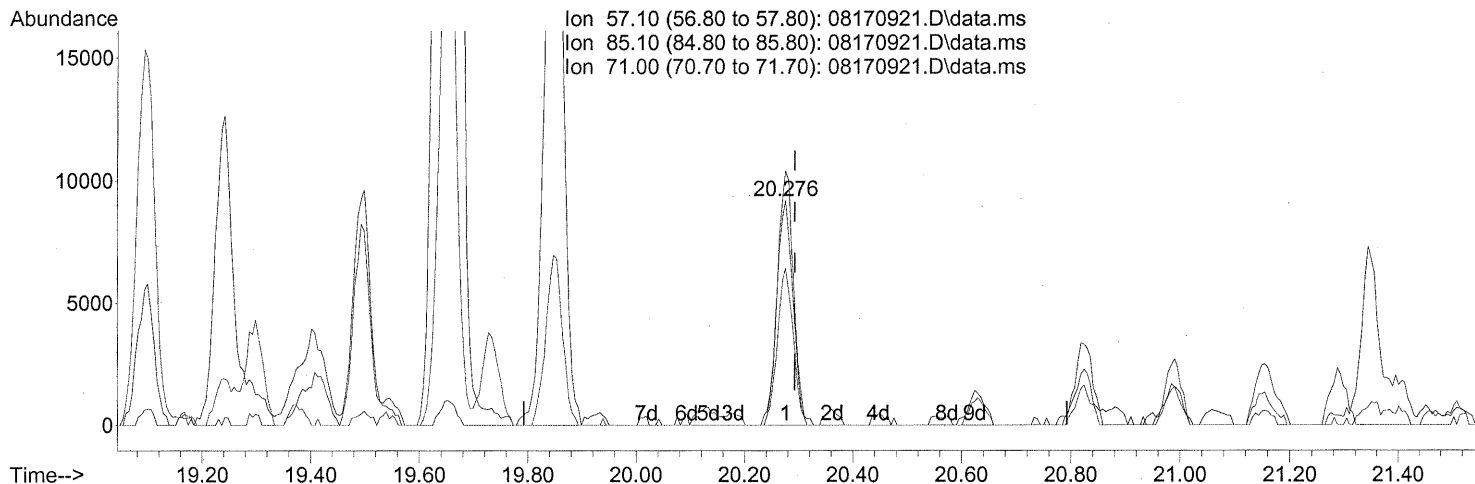
(62) n-Butyl Acetate (T)
 20.179min (-0.029) 0.51ng
 response 15678

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	47.62
73.00	14.80	23.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



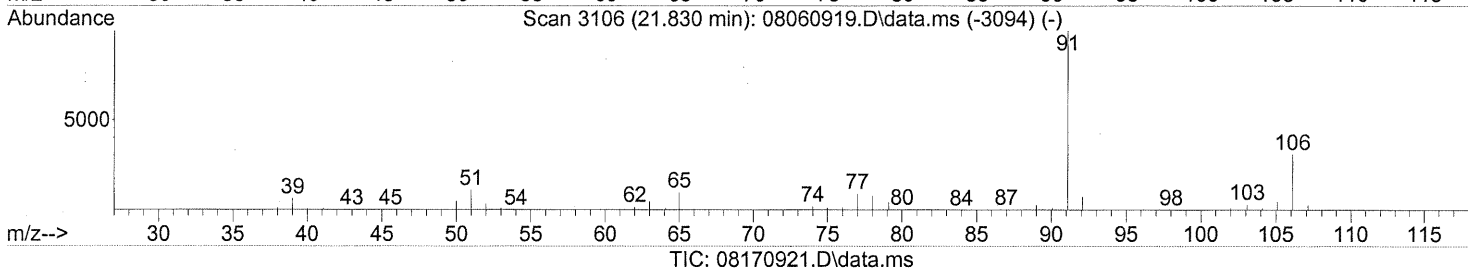
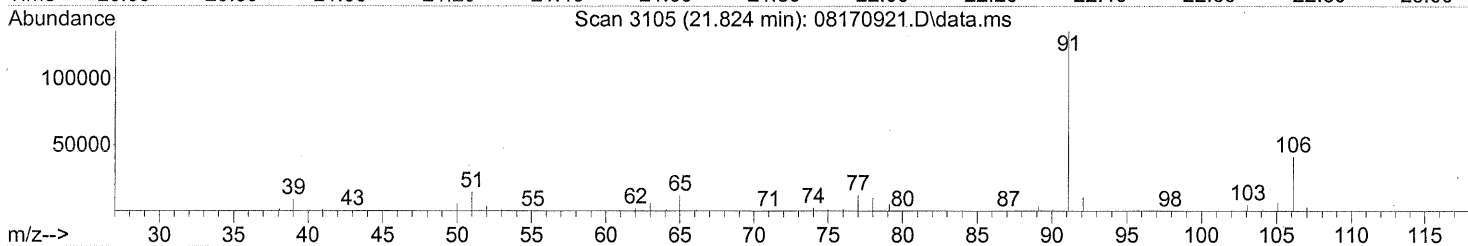
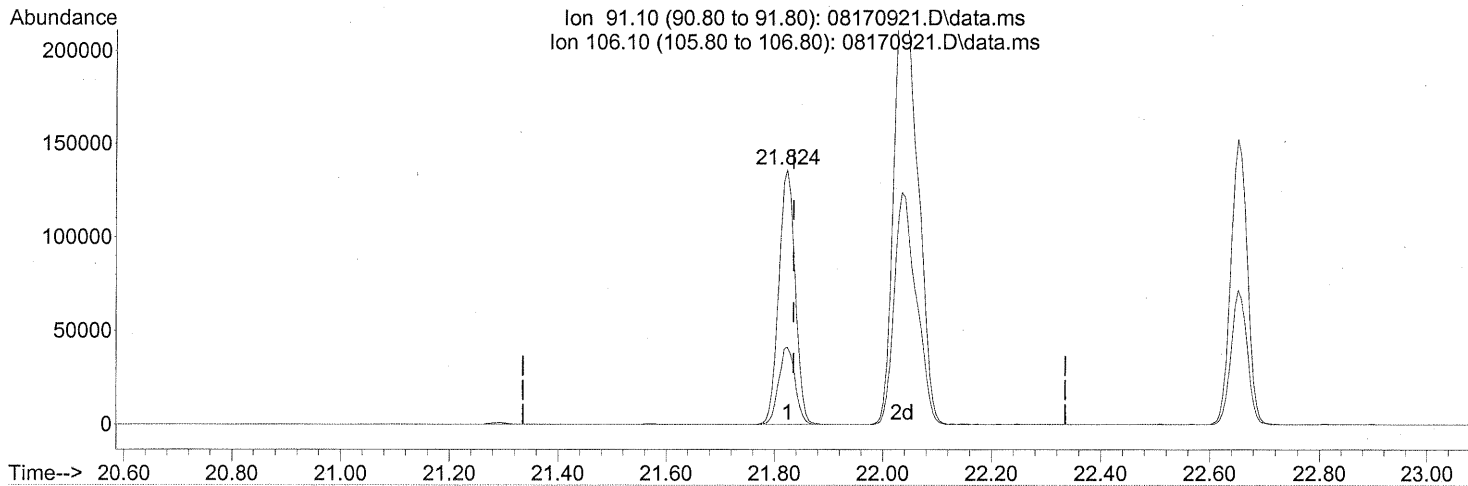
(63) n-Octane (T)
 20.276min (-0.017) 2.03ng
 response 19289

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	110.07
71.00	68.10	67.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.824min (-0.011) 6.30ng

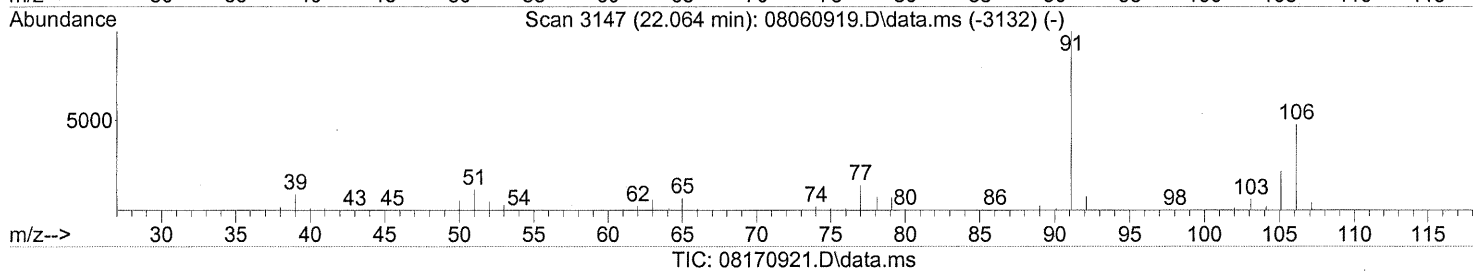
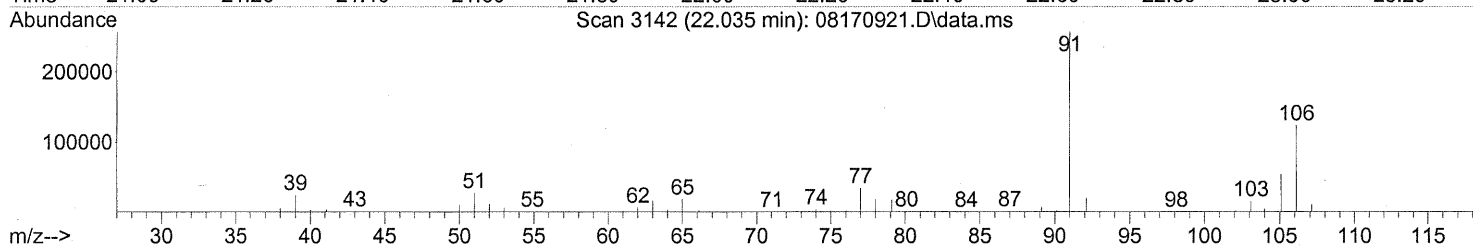
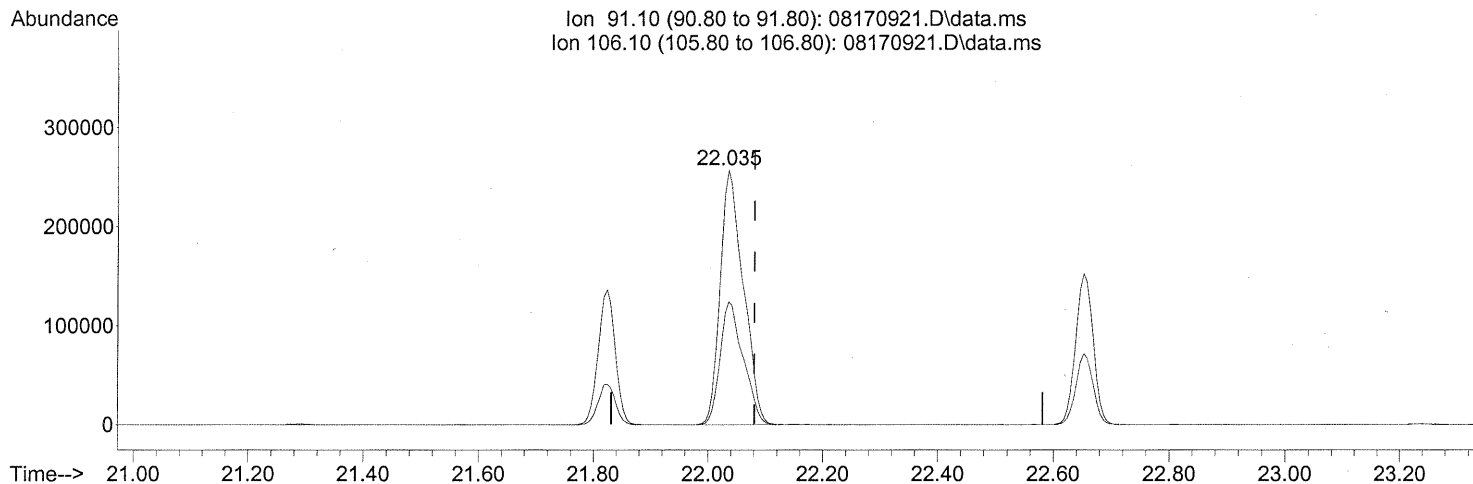
response 283496

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
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Quant Time: Aug 17 20:16:46 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 19.90ng

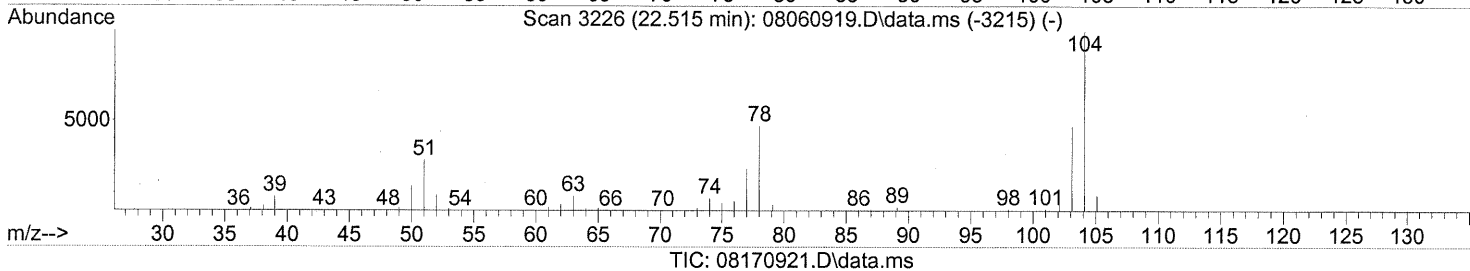
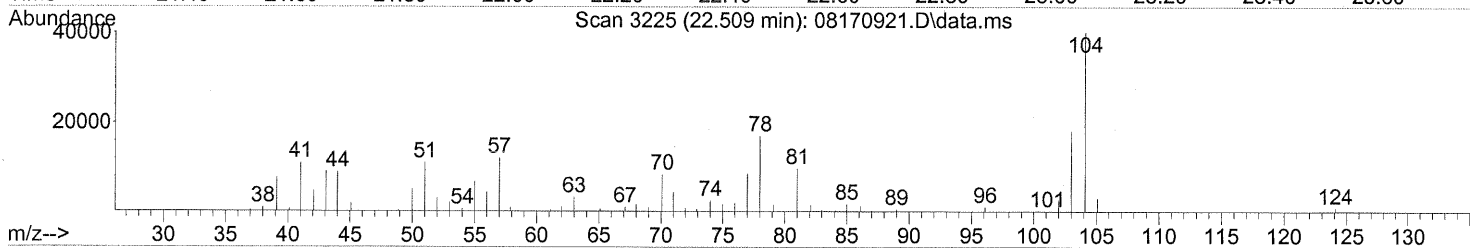
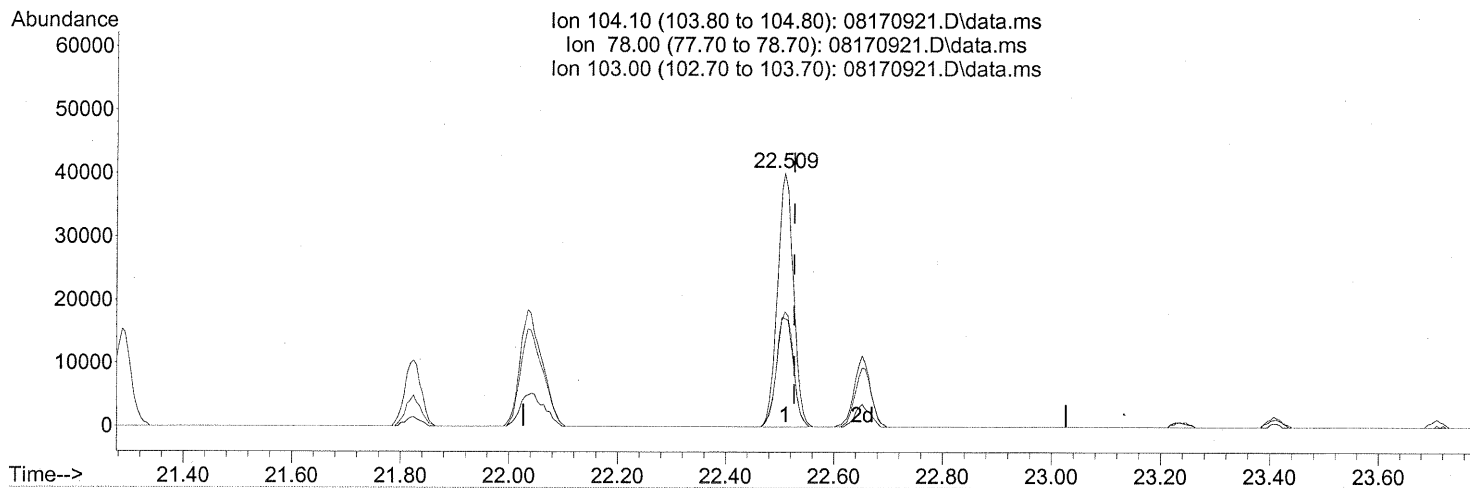
response 724108

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
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Quant Time: Aug 17 20:16:46 2009
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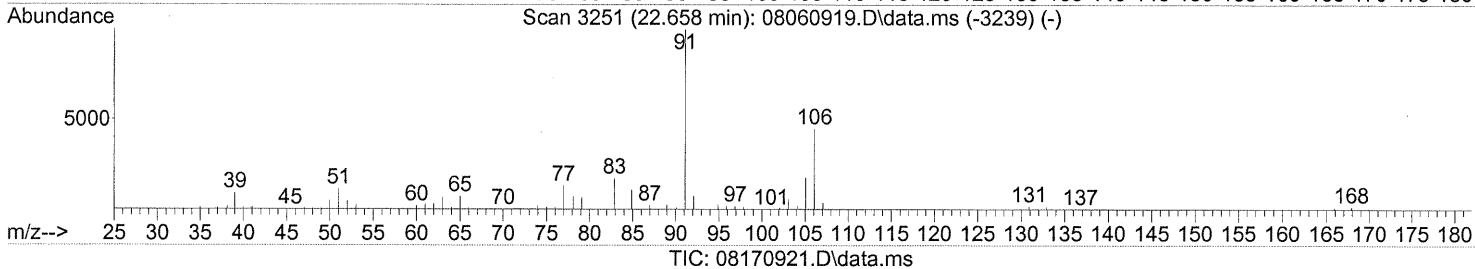
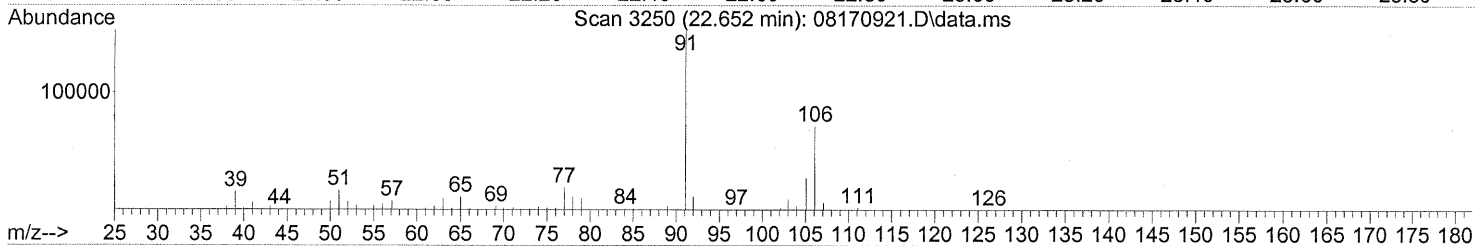
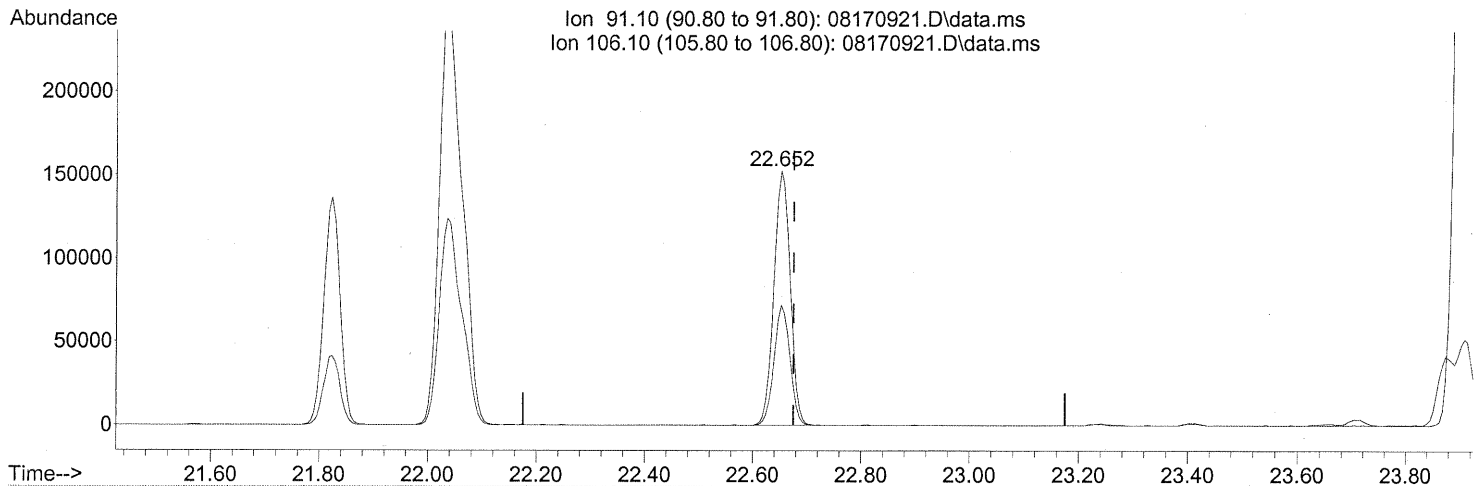
(69) Styrene (T)
 22.509min (-0.017) 3.12ng
 response 82146

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	46.31
103.00	46.20	47.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170921.D
Acq On : 17 Aug 2009 19:23
Operator : WA
Sample : P0902721-014 (1000mL)
Misc : Env. Health & Engineering 100203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 8.79ng

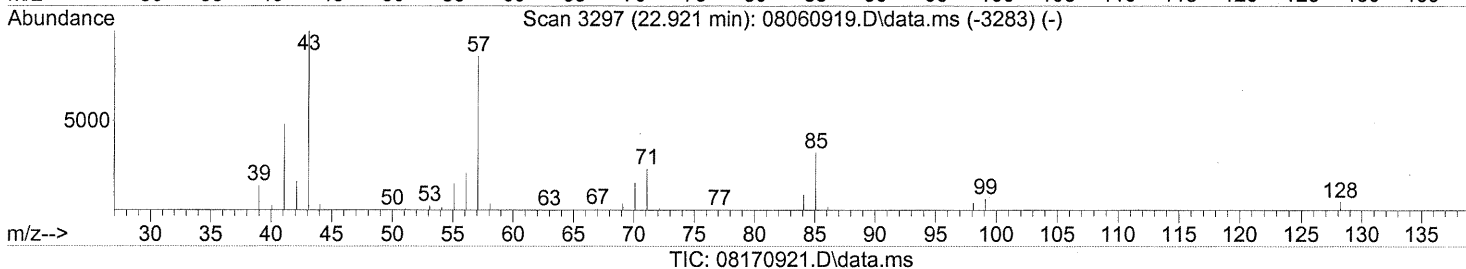
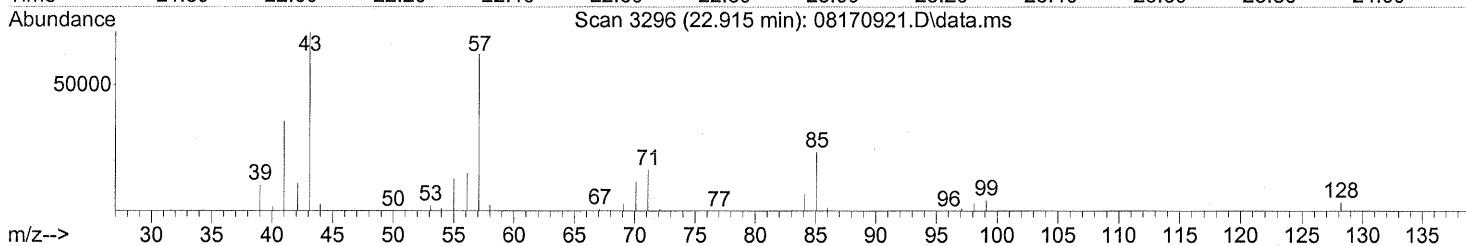
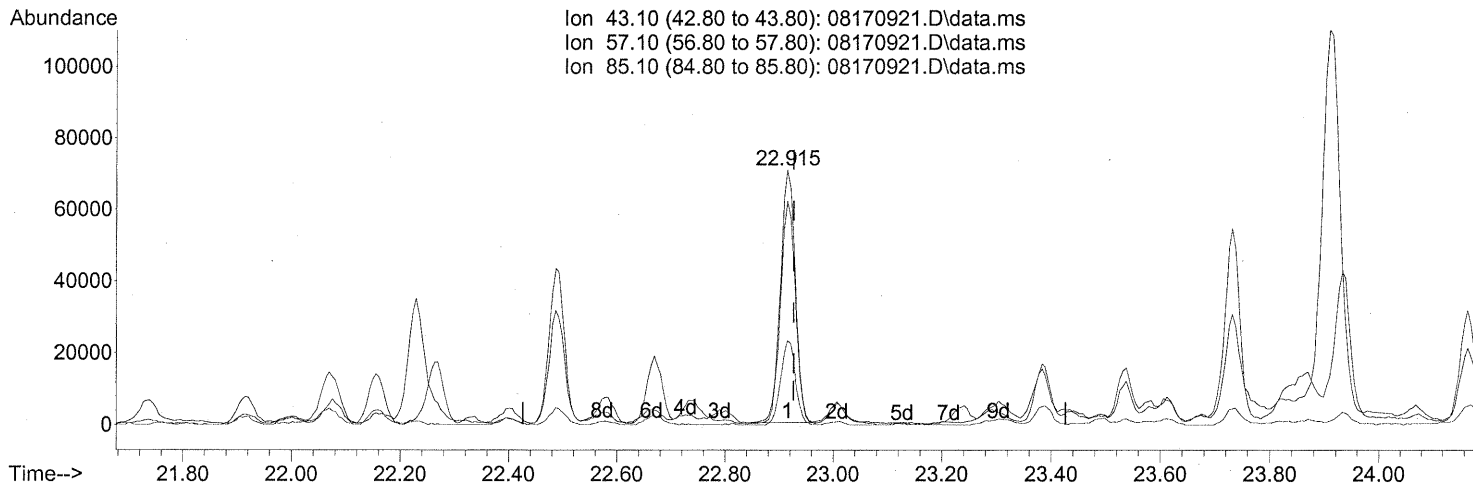
response 320802

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
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Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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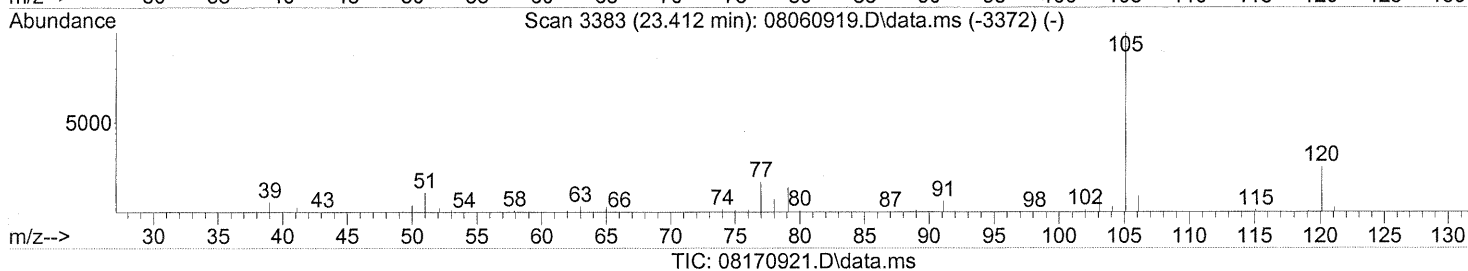
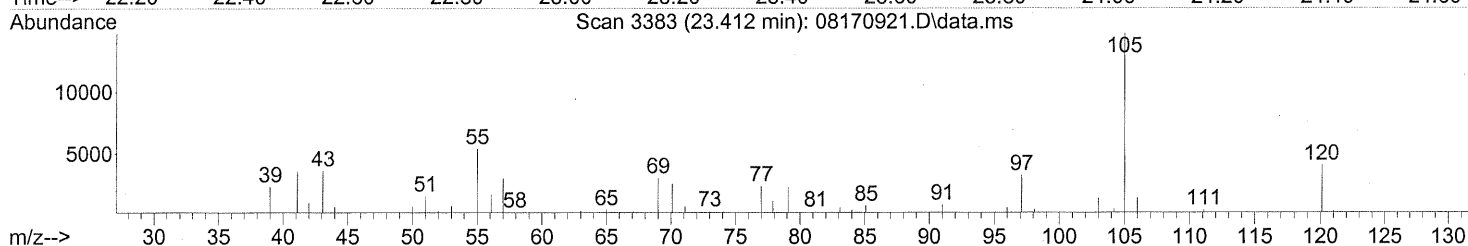
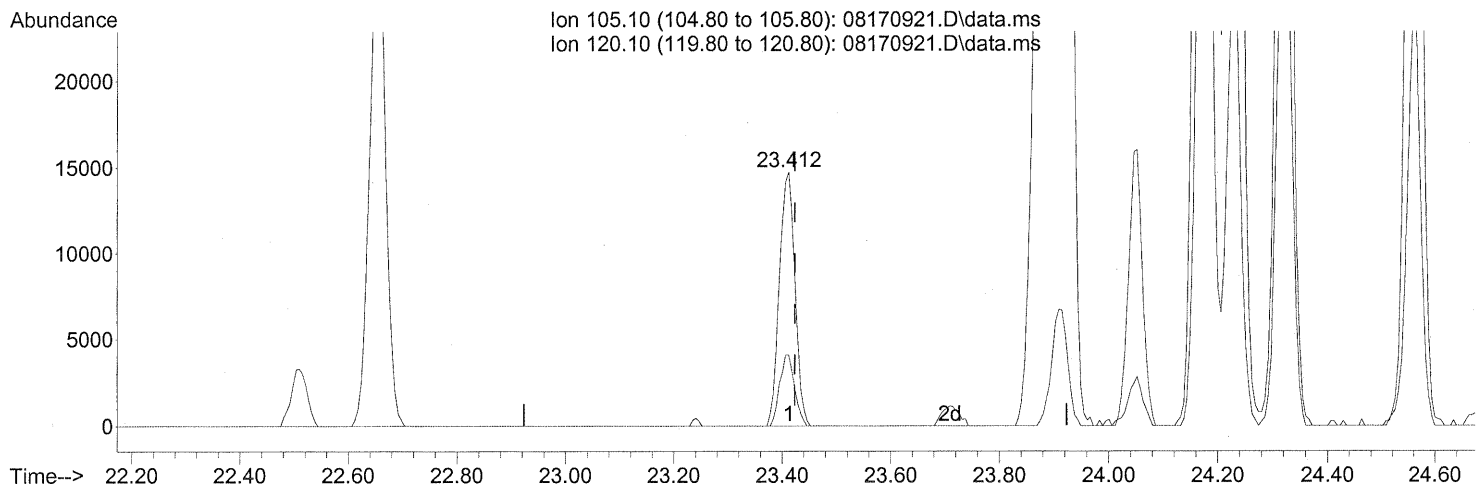
(71) n-Nonane (T)
 22.915min (-0.011) 5.55ng
 response 134597

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	87.49
85.10	30.40	32.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
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Quant Time: Aug 17 20:16:46 2009
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 Response via : Initial Calibration



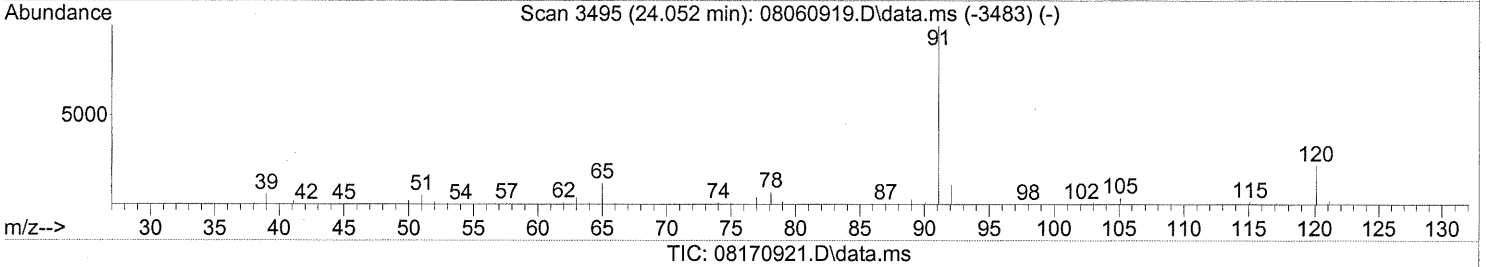
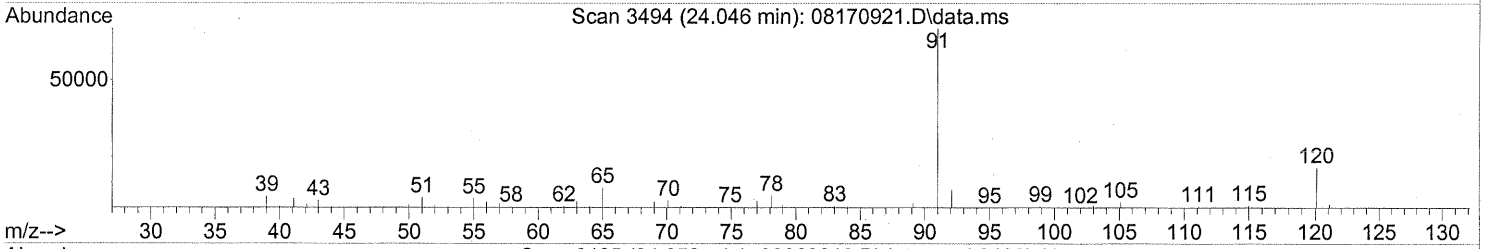
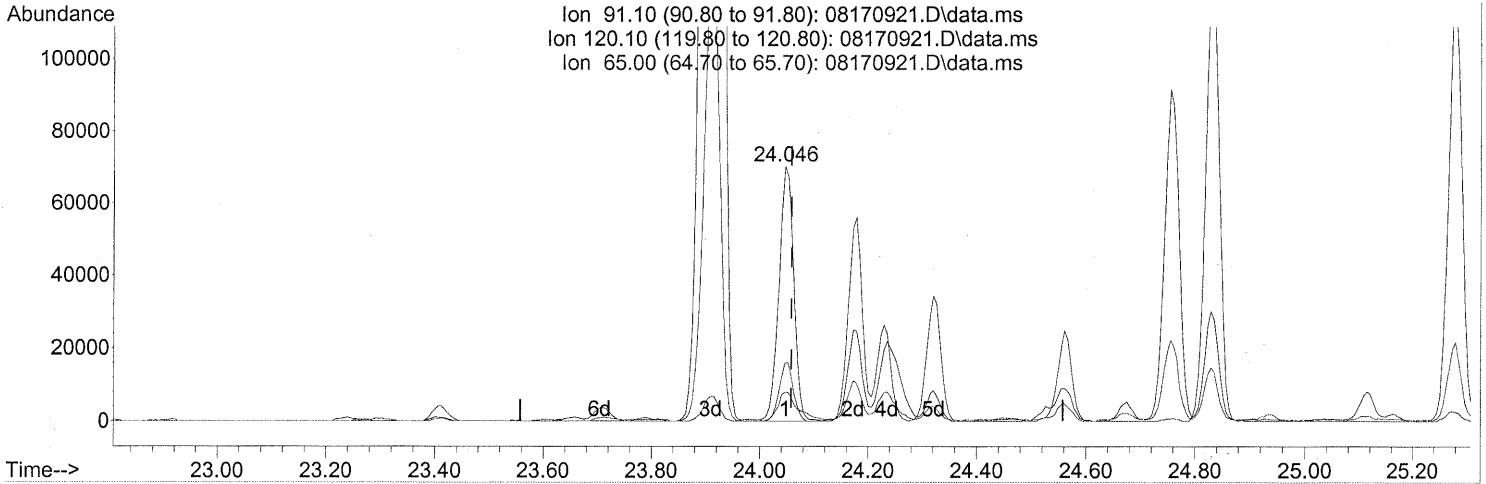
(74) Cumene (T)
 23.412min (-0.011) 0.64ng
 response 29331

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	26.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
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 Misc : Env. Health & Engineering 100203
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Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



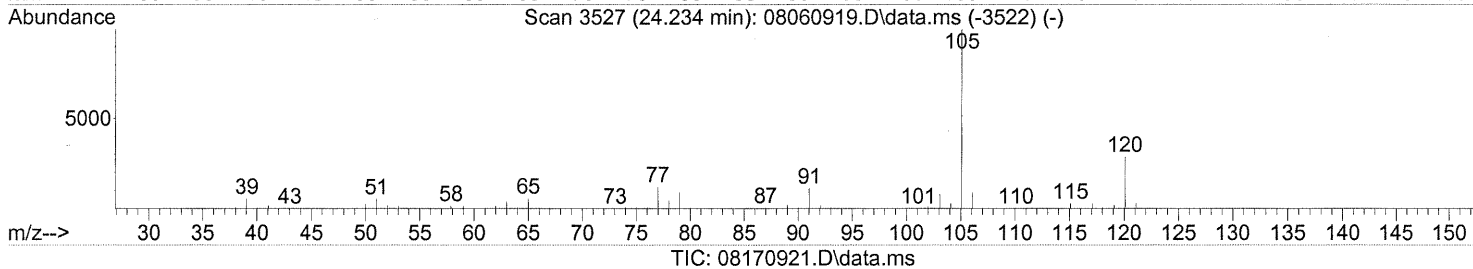
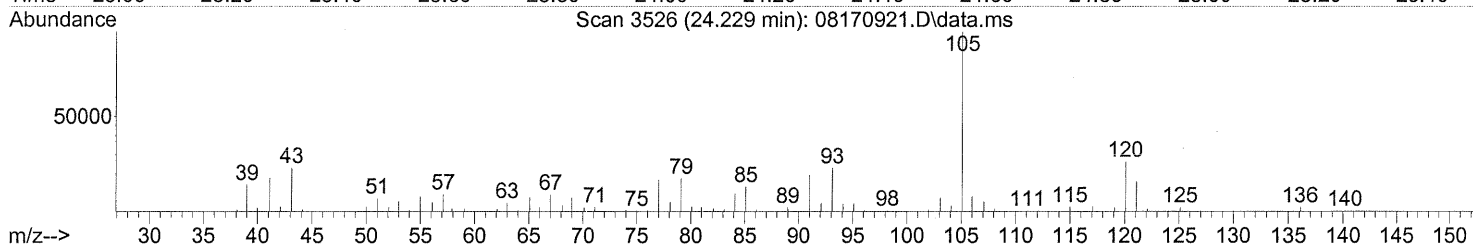
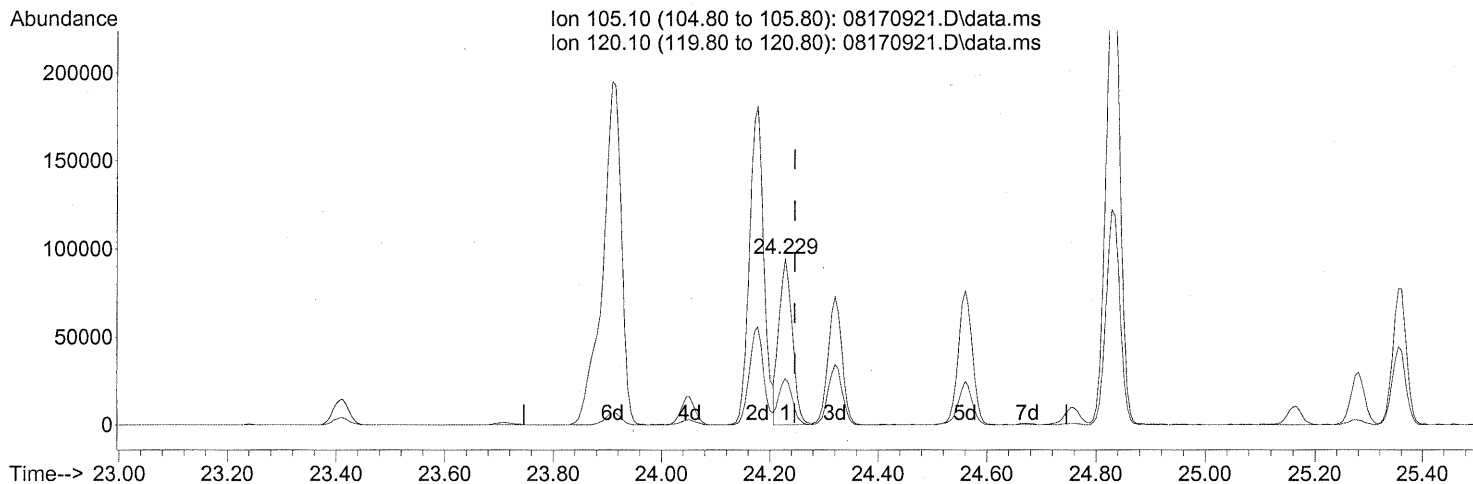
(76) n-Propylbenzene (T)
 24.046min (-0.011) 2.28ng
 response 131991

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	21.74
65.00	12.00	15.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
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Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



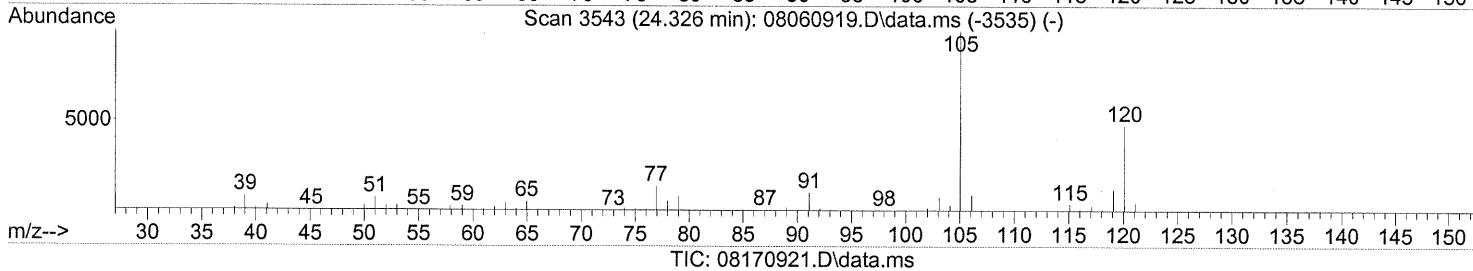
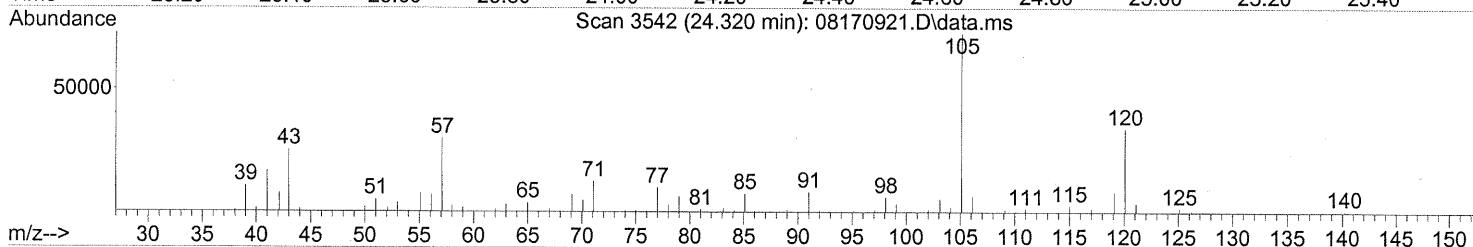
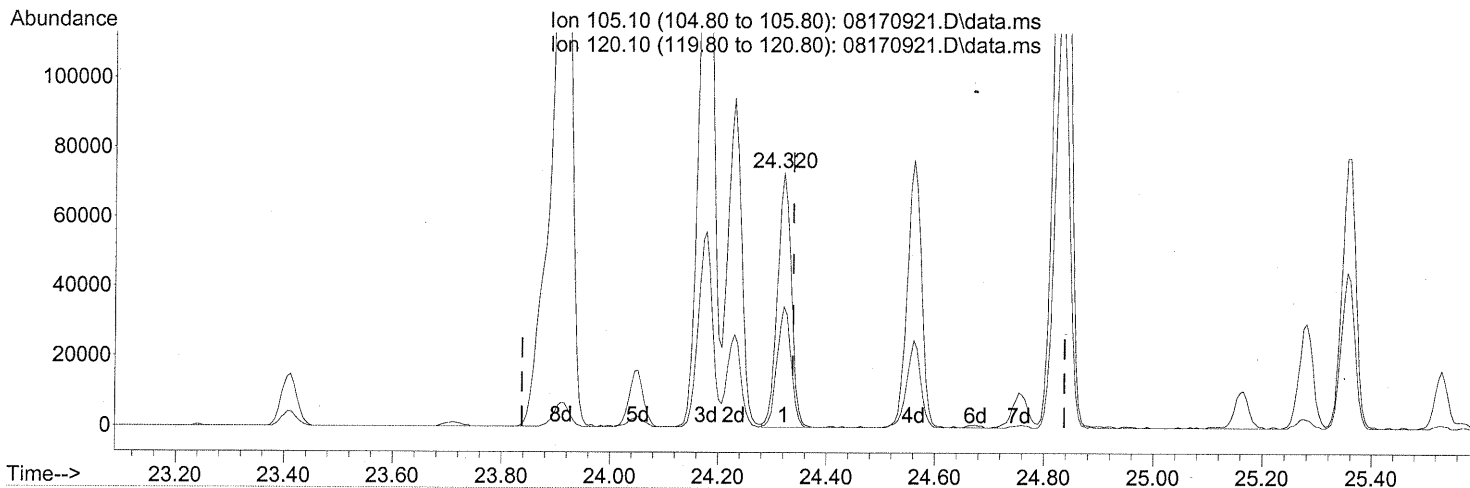
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 3.81ng
 response 162598

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	28.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 3.59ng

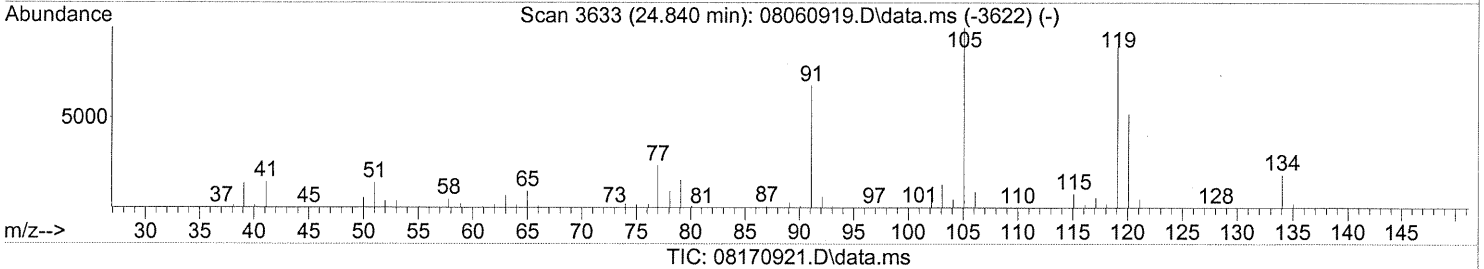
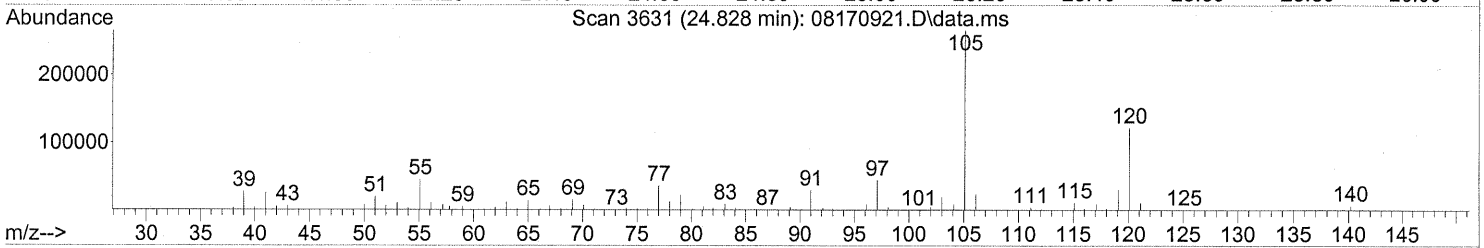
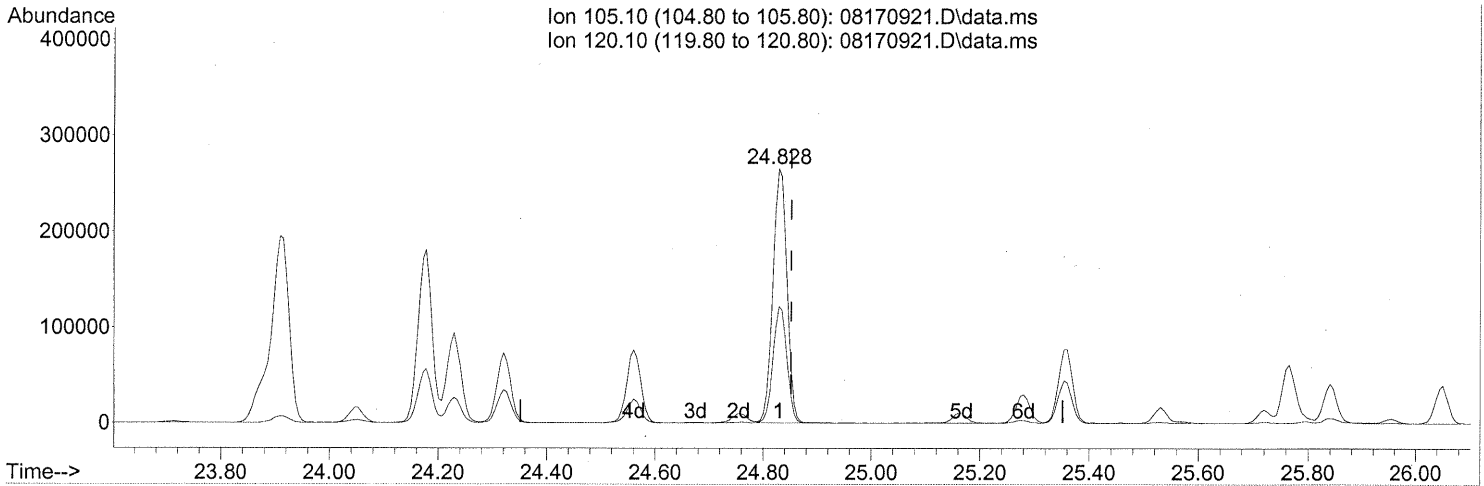
response 129221

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	47.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 13.14ng

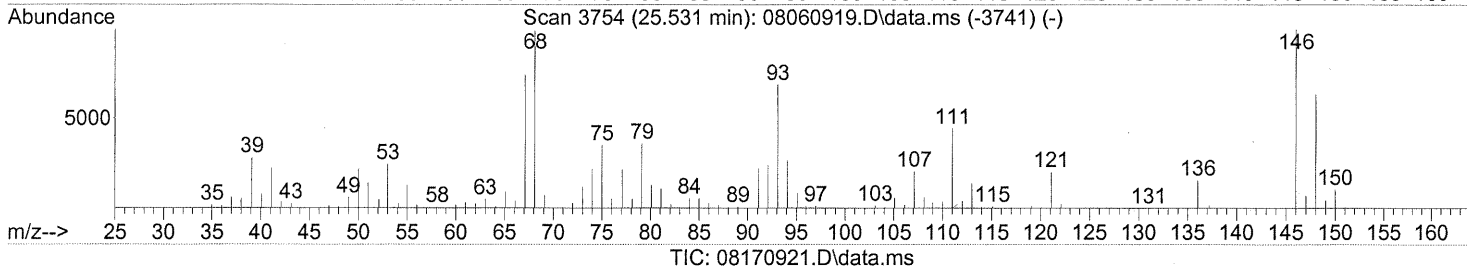
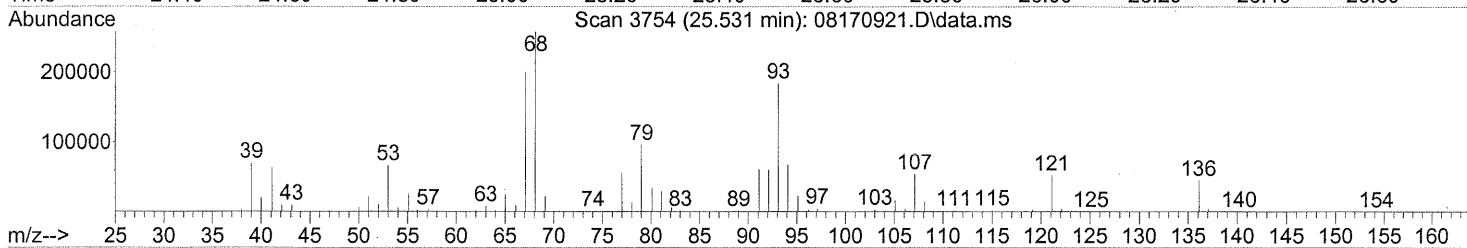
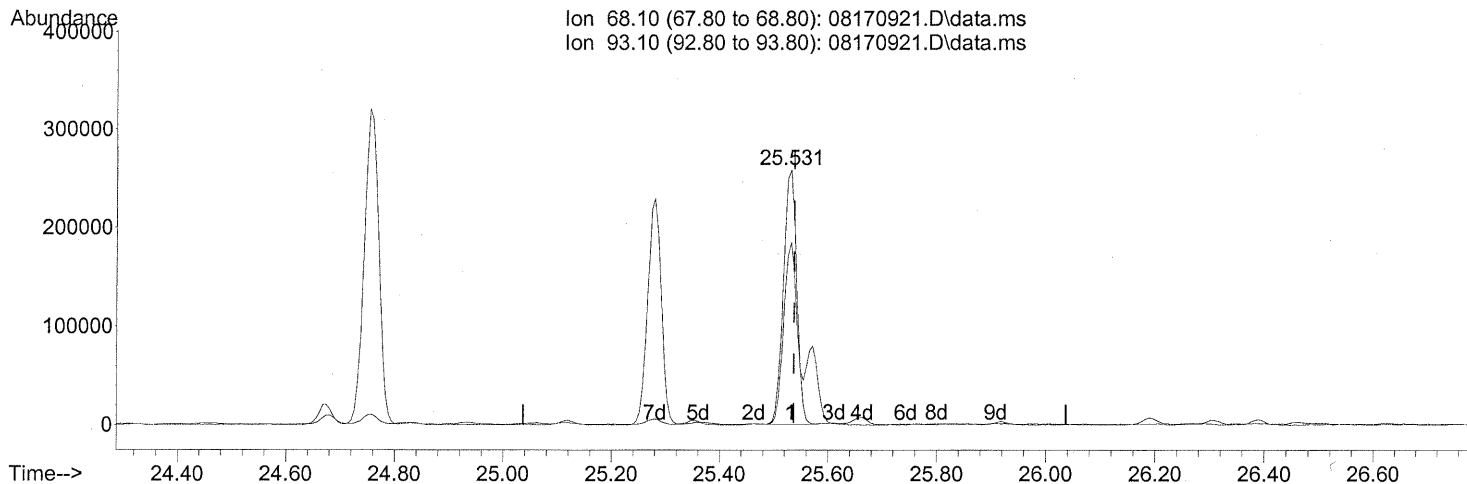
response 482183

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	45.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



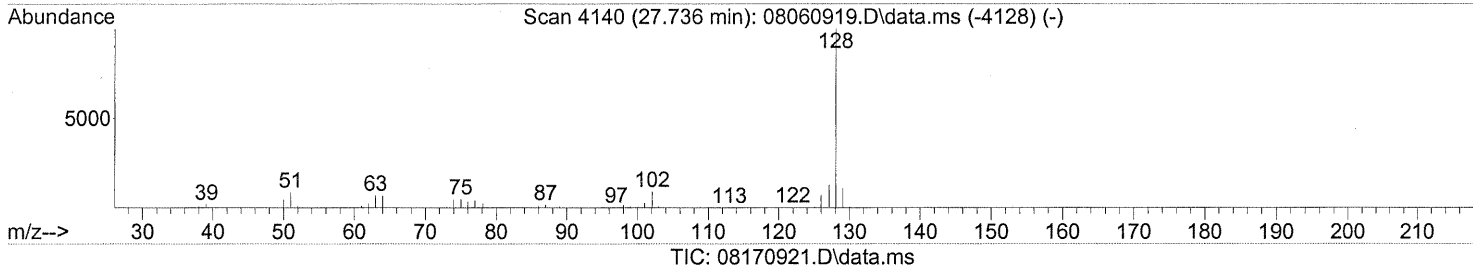
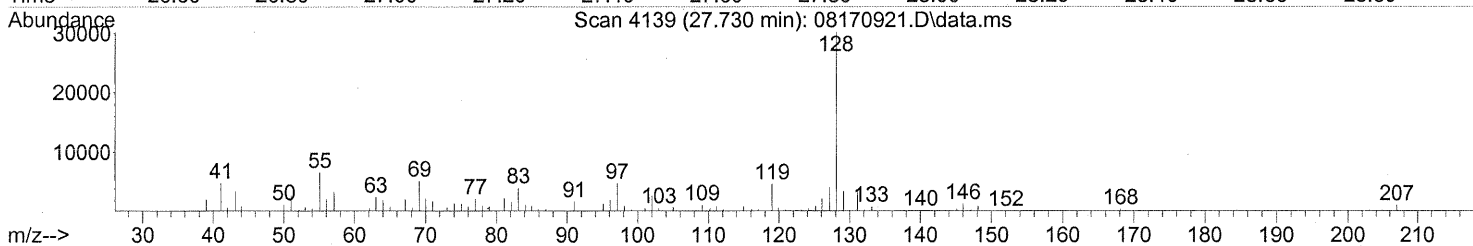
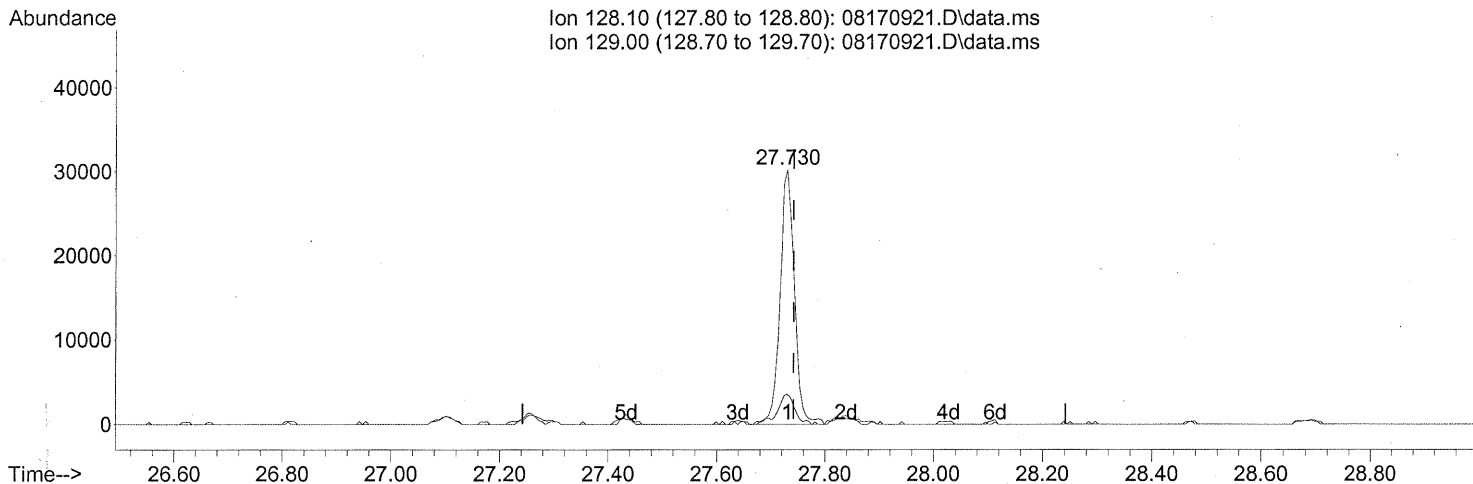
(91) d-Limonene (T)
 25.531min (-0.006) 28.04ng
 response 437631

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	73.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170921.D
 Acq On : 17 Aug 2009 19:23
 Operator : WA
 Sample : P0902721-014 (1000mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 17 20:16:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

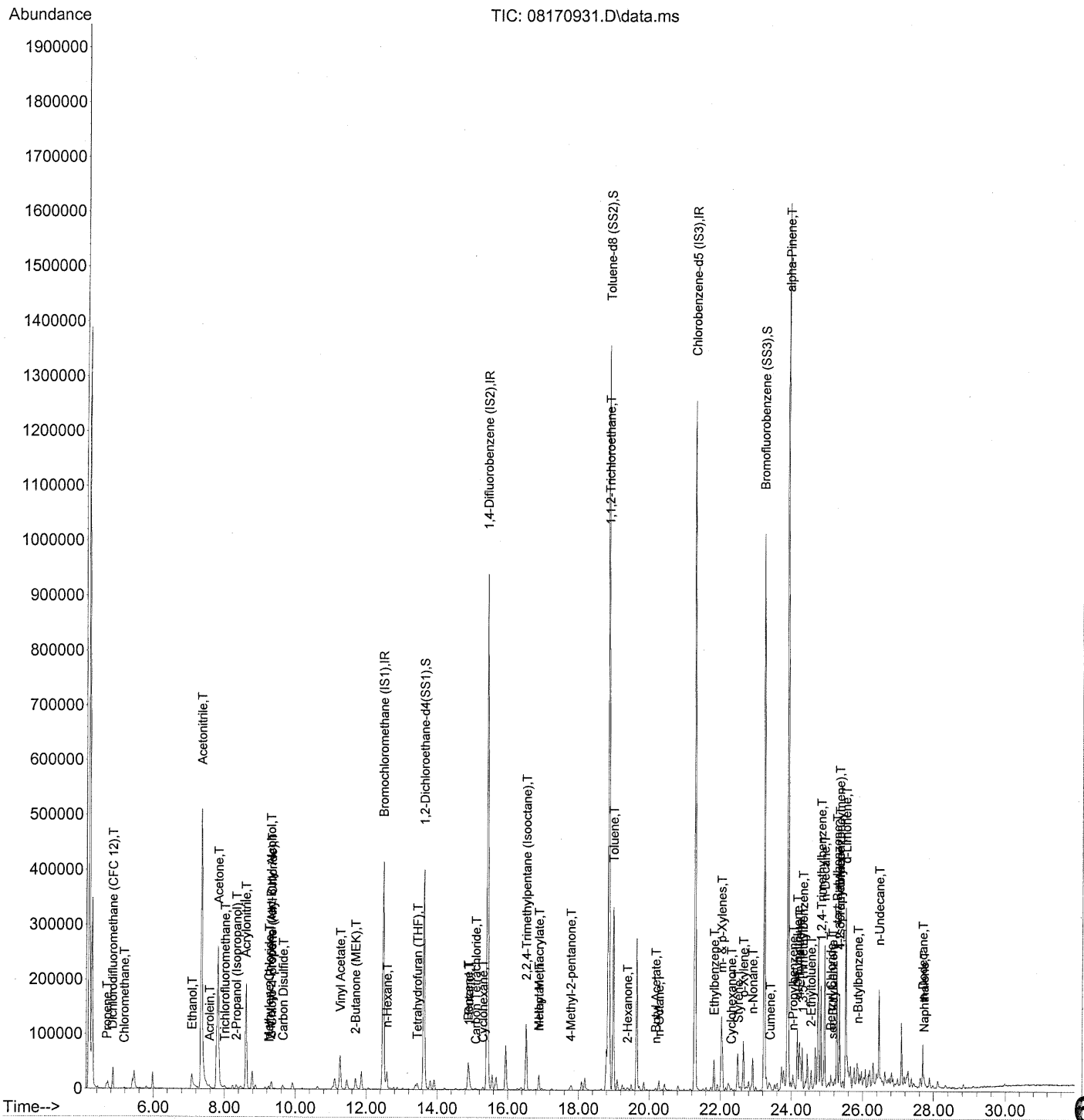


(95) Naphthalene (T)
 27.730min (-0.011) 1.11ng
 response 55227

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	14.35
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170931.D
 Acq On : 18 Aug 2009 2:15
 Operator : WA
 Sample : P0902721-014 dil (200mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 06:49:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170931.D
 Acq On : 18 Aug 2009 2:15
 Operator : WA
 Sample : P0902721-014 dil (200mL)
 Misc : Env. Health & Engineering 100203 ✓
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 06:49:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

um 8/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.47	130	209029	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1060166	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	521326	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	421721	23.212	ng	-0.03
Spiked Amount	25.000			Recovery =	92.84%	✓
57) Toluene-d8 (SS2)	18.85	98	1168088	25.643	ng	-0.01
Spiked Amount	25.000			Recovery =	102.56%	✓
73) Bromofluorobenzene (SS3)	23.23	174	322511	26.847	ng	-0.01
Spiked Amount	25.000			Recovery =	107.40%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	4015	0.280	ng	# 1
3) Dichlorodifluoromethan...	4.84	85	7946	0.339	ng	96
4) Chloromethane	5.17	50	3281	0.208	ng	84
5) 1,2-Dichloro-1,1,2,2-t...	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	7.09	45	73598	8.095	ng	98
11) Acetonitrile	7.34	41	856751	32.175	ng	100
12) Acrolein	7.58	56	6172	0.892	ng	100
13) Acetone	7.82	58	148293	17.286	ng	93
14) Trichlorofluoromethane	8.01	101	3506	0.165	ng	98
15) 2-Propanol (Isopropanol)	8.33	45	22070	0.655	ng	95
16) Acrylonitrile	8.60	53	2795	0.180	ng	# 26
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	3470	0.116	ng	# 1
19) Methylene Chloride	9.25	84	3157	0.274	ng	90
20) 3-Chloro-1-propene (Al...	9.33	41	3709	0.167	ng	# 43
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.64	76	15466	0.381	ng	95
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	11.26	86	3570	2.045	ng	# 1
27) 2-Butanone (MEK)	11.70	72	9441	1.219	ng	100
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.58	57	18205	0.882	ng	9608

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170931.D
 Acq On : 18 Aug 2009 2:15
 Operator : WA
 Sample : P0902721-014 dil (200mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 06:49:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	91	N.D.		
34) Tetrahydrofuran (THF)	13.44	72	2261	0.274 ng	#	67
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	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	31508	2.290 ng		81
41) Benzene	14.88	78	30951	0.664 ng		100
42) Carbon Tetrachloride	15.09	117	791	0.053 ng	#	61
43) Cyclohexane	15.29	84	2646	0.155 ng		96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.38	83	105	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	144006	2.623 ng		99
50) Methyl Methacrylate	16.88	100	2210	0.515 ng	#	1
51) n-Heptane	16.88	71	8735	0.698 ng		96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.78	58	2113	0.189 ng		91
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	101311	9.899 ng	#	6
58) Toluene	18.98	91	282102	6.301 ng		100
59) 2-Hexanone	19.38	43	5645	0.190 ng		84
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	3080	0.088 ng		87
63) n-Octane	20.28	57	3690	0.341 ng		98
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.82	91	52976	1.035 ng		100
67) m- & p-Xylenes	22.04	91	135467	3.272 ng		97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.51	104	14555	0.486 ng		99
70) o-Xylene	22.65	91	60234	1.451 ng		100
71) n-Nonane	22.91	43	25682	0.931 ng		94
72) 1,1,2,2-Tetrachloroethane	22.71	83	683	N.D.		
74) Cumene	23.41	105	5399	0.103 ng		93
75) alpha-Pinene	23.90	93	751450	27.960 ng		97
76) n-Propylbenzene	24.05	91	24776	0.376 ng		99
77) 3-Ethyltoluene	24.17	105	60753	1.212 ng		100
78) 4-Ethyltoluene	24.23	105	31400	0.647 ng		99
79) 1,3,5-Trimethylbenzene	24.32	105	24102	0.589 ng		100

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170931.D
 Acq On : 18 Aug 2009 2:15
 Operator : WA
 Sample : P0902721-014 dil (200mL)
 Misc : Env. Health & Engineering 100203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 06:49:09 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

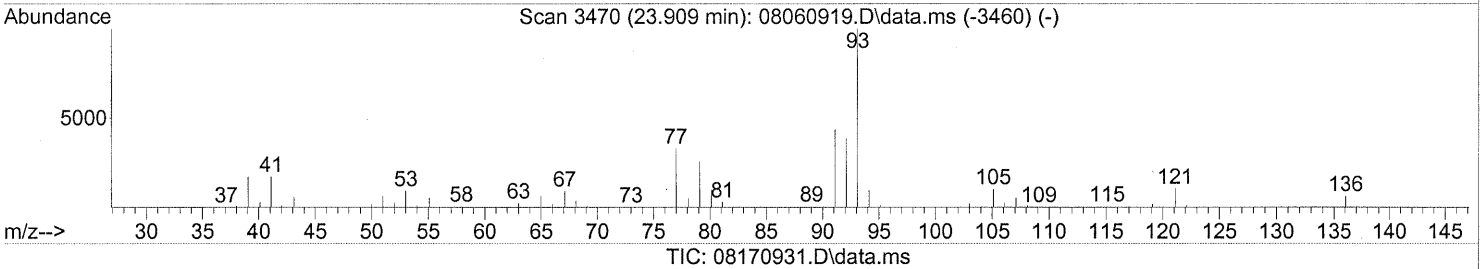
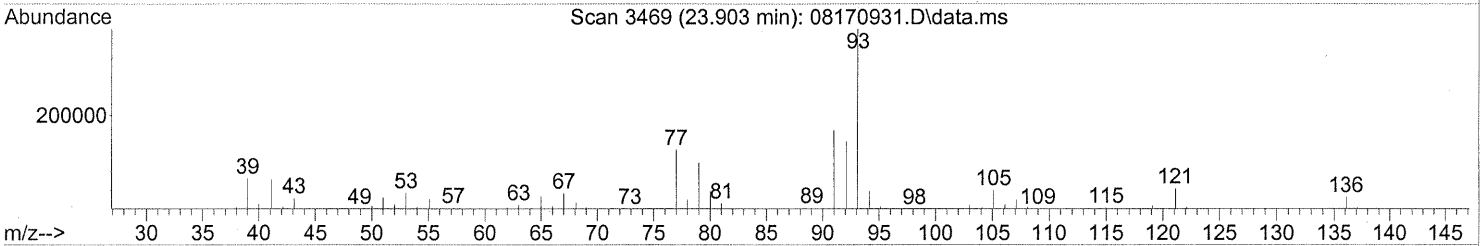
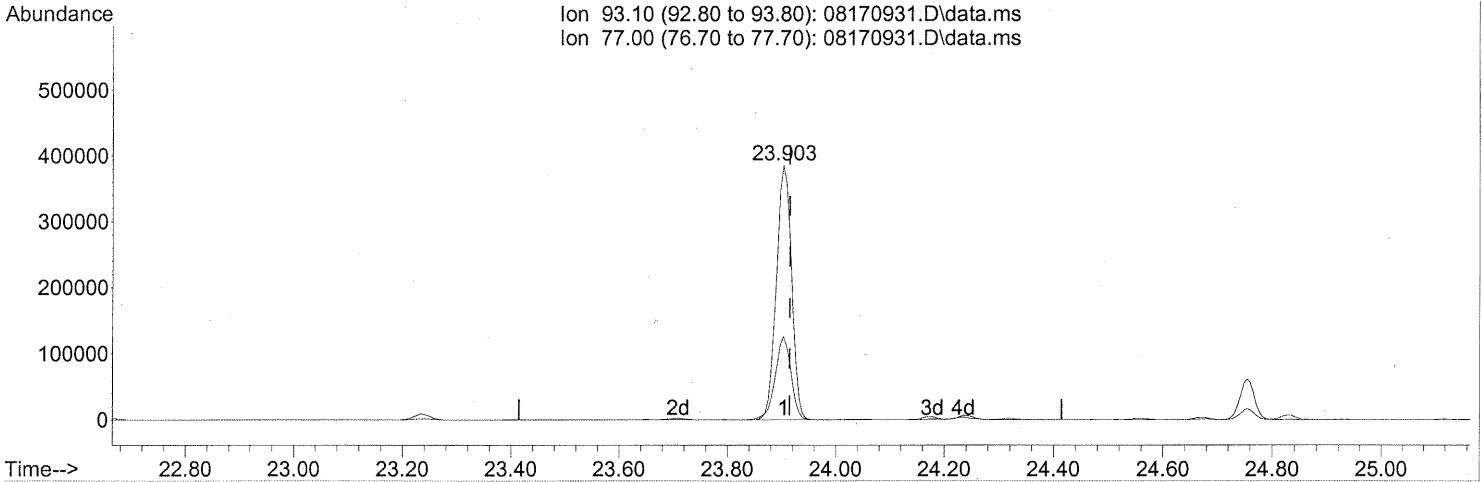
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	104	N.D.		
81) 2-Ethyltoluene	24.55	105	26301	0.521	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	91009	2.179	ng	89
83) n-Decane	24.93	57	90896	3.348	ng	97
84) Benzyl Chloride	25.11	91	2728	0.070	ng	# 57
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.16	105	3617	0.064	ng	92
88) 4-Isopropyltoluene (p-...	25.35	119	46056	0.916	ng	98
89) 1,2,3-Trimethylbenzene	25.35	105	26362	0.620	ng	90
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	25.53	68	82471	4.644	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	56610	1.960	ng	92
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	9306	0.164	ng	97
96) n-Dodecane	27.69	57	25984	0.774	ng	95
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	2392	0.129	ng	# 73
99) tert-Butylbenzene	25.27	119	7432	0.184	ng	96
100) n-Butylbenzene	25.86	91	11390	0.245	ng	# 64

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170931.D
Acq On : 18 Aug 2009 2:15
Operator : WA
Sample : P0902721-014 dil (200mL)
Misc : Env. Health & Engineering 100203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 06:49:09 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(75) alpha-Pinene (T)
23.903min (-0.011) 27.96ng
response 751450

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	33.96
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100204

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-015

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: AC01168

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/17/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.42

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.71	ND	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.71	0.52	0.14	
74-87-3	Chloromethane	0.52	0.14	0.25	0.069	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.71	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.056	
106-99-0	1,3-Butadiene	ND	0.14	ND	0.064	
74-83-9	Bromomethane	0.32	0.14	0.082	0.037	
75-00-3	Chloroethane	ND	0.14	ND	0.054	
64-17-5	Ethanol	7.3	7.1	3.9	3.8	
75-05-8	Acetonitrile	6.5	0.71	3.9	0.42	
107-02-8	Acrolein	ND	0.71	ND	0.31	
67-64-1	Acetone	9.9	7.1	4.2	3.0	
75-69-4	Trichlorofluoromethane	1.3	0.14	0.22	0.025	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.71	ND	0.29	
107-13-1	Acrylonitrile	ND	0.71	ND	0.33	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.036	
75-09-2	Methylene Chloride	ND	0.71	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	ND	0.045	
76-13-1	Trichlorotrifluoroethane	0.60	0.14	0.078	0.019	
75-15-0	Carbon Disulfide	2.7	0.71	0.87	0.23	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.036	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	ND	0.039	
108-05-4	Vinyl Acetate	ND	7.1	ND	2.0	
78-93-3	2-Butanone (MEK)	1.0	0.71	0.35	0.24	

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: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100204

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-015

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/7/09

Analyst: Wida Ang

Date Analyzed: 8/17/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01168

Initial Pressure (psig): -1.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.42

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.036	
141-78-6	Ethyl Acetate	ND	0.71	ND	0.20	
110-54-3	n-Hexane	ND	0.71	ND	0.20	
67-66-3	Chloroform	3.3	0.14	0.67	0.029	
109-99-9	Tetrahydrofuran (THF)	ND	0.71	ND	0.24	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.026	
71-43-2	Benzene	0.31	0.14	0.096	0.044	
56-23-5	Carbon Tetrachloride	0.44	0.14	0.070	0.023	
110-82-7	Cyclohexane	ND	0.71	ND	0.21	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.031	
75-27-4	Bromodichloromethane	1.0	0.14	0.15	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.71	ND	0.20	
80-62-6	Methyl Methacrylate	ND	0.71	ND	0.17	
142-82-5	n-Heptane	ND	0.71	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	0.71	ND	0.17	
10061-02-6	trans-1,3-Dichloropropene	ND	0.71	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	1.8	0.71	0.48	0.19	
591-78-6	2-Hexanone	ND	0.71	ND	0.17	
124-48-1	Dibromochloromethane	0.58	0.14	0.068	0.017	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	0.71	ND	0.15	

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: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100204
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-015

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: AC01168

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.42

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.71	ND	0.15	
127-18-4	Tetrachloroethene	ND	0.14	ND	0.021	
108-90-7	Chlorobenzene	ND	0.14	ND	0.031	
100-41-4	Ethylbenzene	ND	0.71	ND	0.16	
179601-23-1	m,p-Xylenes	0.82	0.71	0.19	0.16	
75-25-2	Bromoform	ND	0.71	ND	0.069	
100-42-5	Styrene	ND	0.71	ND	0.17	
95-47-6	o-Xylene	ND	0.71	ND	0.16	
111-84-2	n-Nonane	ND	0.71	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.021	
98-82-8	Cumene	ND	0.71	ND	0.14	
80-56-8	alpha-Pinene	3.6	0.71	0.64	0.13	
103-65-1	n-Propylbenzene	ND	0.71	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.71	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.71	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.71	ND	0.14	
100-44-7	Benzyl Chloride	ND	0.14	ND	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.14	ND	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.14	ND	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.14	ND	0.024	
5989-27-5	d-Limonene	1.0	0.71	0.18	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.71	ND	0.073	
120-82-1	1,2,4-Trichlorobenzene	ND	0.71	ND	0.096	
91-20-3	Naphthalene	ND	0.71	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.71	ND	0.067	

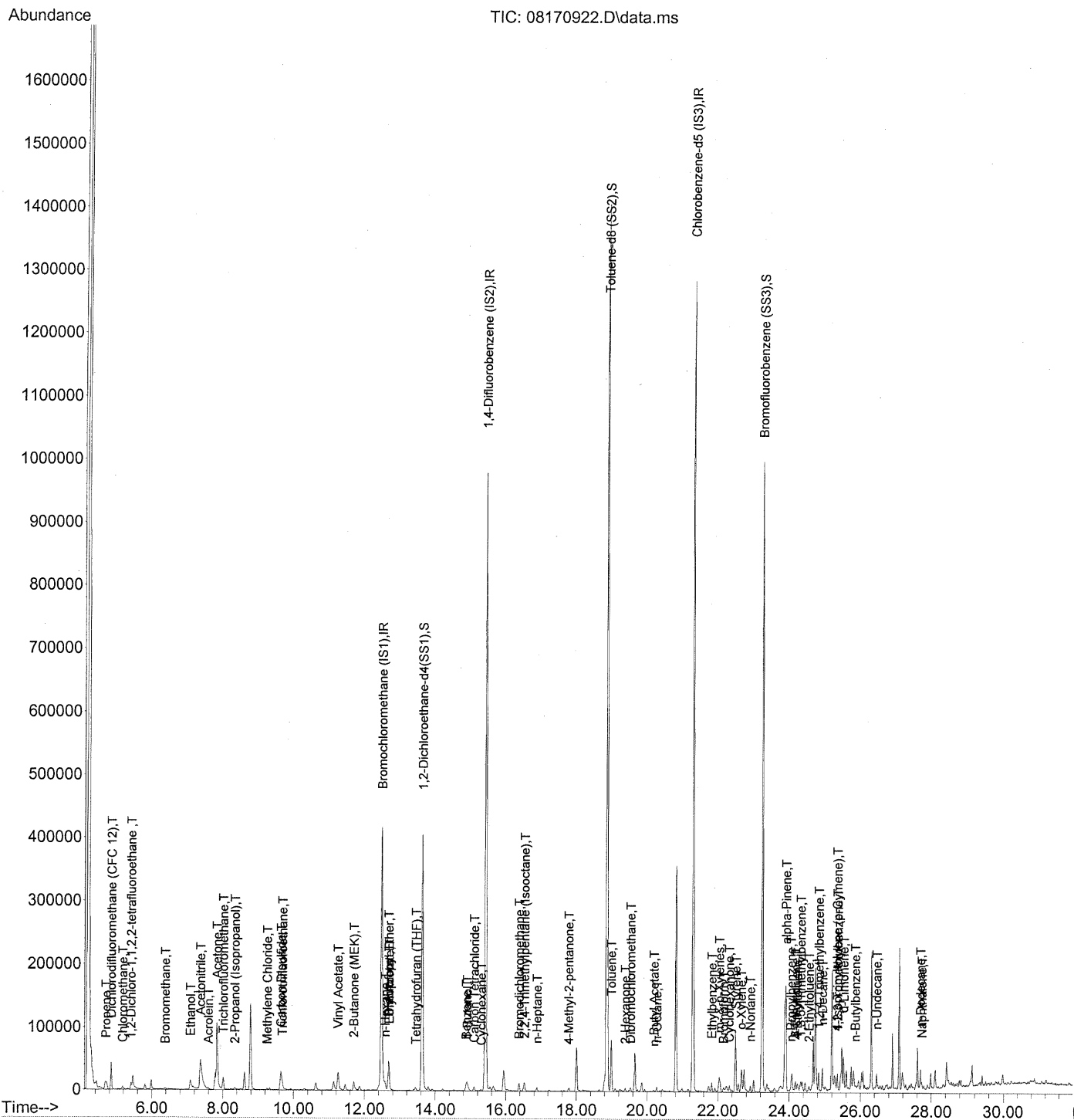
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: _____ Date: 8/24/09 **614**

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204 ✓
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 20 11:29:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204 ✓
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 20 11:29:58 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	220111	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1115782	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	537067	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	438004	22.895	ng	-0.03
Spiked Amount	25.000			Recovery =	91.56%	✓
57) Toluene-d8 (SS2)	18.85	98	1216498	25.923	ng	-0.01
Spiked Amount	25.000			Recovery =	103.68%	✓
73) Bromofluorobenzene (SS3)	23.24	174	317513	25.657	ng	0.00
Spiked Amount	25.000			Recovery =	102.64%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.69	42	4346	0.288 ng	#	74
3) Dichlorodifluoromethan...	4.85	85	44893	1.818 ng		98
4) Chloromethane	5.18	50	6101	0.368 ng		95
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	682	0.068 ng	#	44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.38	94	2181	0.225 ng		100
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.09	45	49241	5.143 ng		93
11) Acetonitrile	7.37	41	128367	4.578 ng		100
12) Acrolein	7.59	56	3097	0.425 ng		97
13) Acetone	7.83	58	62897	6.962 ng		89
14) Trichlorofluoromethane	8.01	101	19716	0.883 ng		99
15) 2-Propanol (Isopropanol)	8.34	45	11801	0.332 ng		85
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.31	59	314	N.D.		
19) Methylene Chloride	9.25	84	1185	0.098 ng		92
20) 3-Chloro-1-propene (Al...	9.33	41	222	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3415	0.421 ng		99
22) Carbon Disulfide	9.64	76	81718	1.911 ng		100
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	11.24	86	2238	1.217 ng	#	1
27) 2-Butanone (MEK)	11.70	72	5990	0.734 ng	#	89
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	4266	0.391 ng	#	1
30) Ethyl Acetate	12.70	61	1449	0.341 ng	#	67
31) n-Hexane	12.58	57	4817	0.222 ng		8

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Data Path : J:\MS13\DATA\2009_08\17\
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Quant Time: Aug 20 11:29:58 2009
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Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	12.68	83	44297	2.315 ng	99
34) Tetrahydrofuran (THF)	13.46	72	1167	0.134 ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	13.79	62	196	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	12354	0.853 ng	87
41) Benzene	14.88	78	10631	0.217 ng	98
42) Carbon Tetrachloride	15.10	117	4843	0.310 ng	94
43) Cyclohexane	15.30	84	1014	0.056 ng #	81
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	
45) 1,2-Dichloropropane	0.00	63	0	N.D.	
46) Bromodichloromethane	16.37	83	11413	0.706 ng	94
47) Trichloroethene	0.00	130	0	N.D.	
48) 1,4-Dioxane	0.00	88	0	N.D.	
49) 2,2,4-Trimethylpentane...	16.52	57	16767	0.290 ng	99
50) Methyl Methacrylate	16.88	100	86	N.D.	
51) n-Heptane	16.88	71	1628	0.124 ng #	85
52) cis-1,3-Dichloropropene	17.65	75	984	N.D.	
53) 4-Methyl-2-pentanone	17.78	58	1492	0.127 ng	71
54) trans-1,3-Dichloropropene	18.36	75	585	N.D.	
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d	
58) Toluene	18.98	91	58720	1.273 ng	99
59) 2-Hexanone	19.38	43	5409	0.176 ng	92
60) Dibromochloromethane	19.53	129	4476	0.410 ng	93
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	20.19	43	1951	0.054 ng #	52
63) n-Octane	20.28	57	1429	0.128 ng	98
64) Tetrachloroethene	0.00	166	0	N.D.	
65) Chlorobenzene	0.00	112	0	N.D.	
66) Ethylbenzene	21.82	91	12613	0.239 ng	100
67) m- & p-Xylenes	22.04	91	24705	0.579 ng	99
68) Bromoform	22.16	173	642	0.071 ng #	57
69) Styrene	22.50	104	9162	0.297 ng	99
70) o-Xylene	22.65	91	11297	0.264 ng	96
71) n-Nonane	22.91	43	5914	0.208 ng	86
72) 1,1,2,2-Tetrachloroethane	22.48	83	213	N.D.	
74) Cumene	23.41	105	1267	N.D.	
75) alpha-Pinene	23.90	93	69555	2.512 ng	# 42
76) n-Propylbenzene	24.05	91	4668	0.069 ng #	86
77) 3-Ethyltoluene	24.17	105	10181	0.197 ng	93
78) 4-Ethyltoluene	24.23	105	4905	0.098 ng	97
79) 1,3,5-Trimethylbenzene	24.33	105	3778	0.090 ng	97

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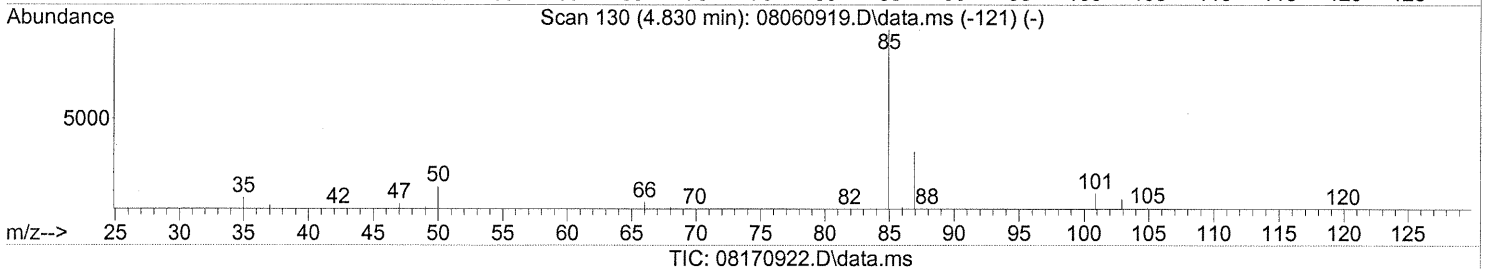
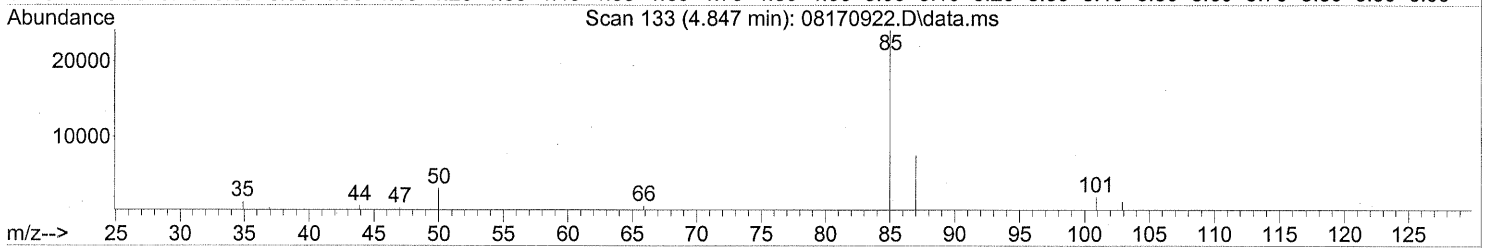
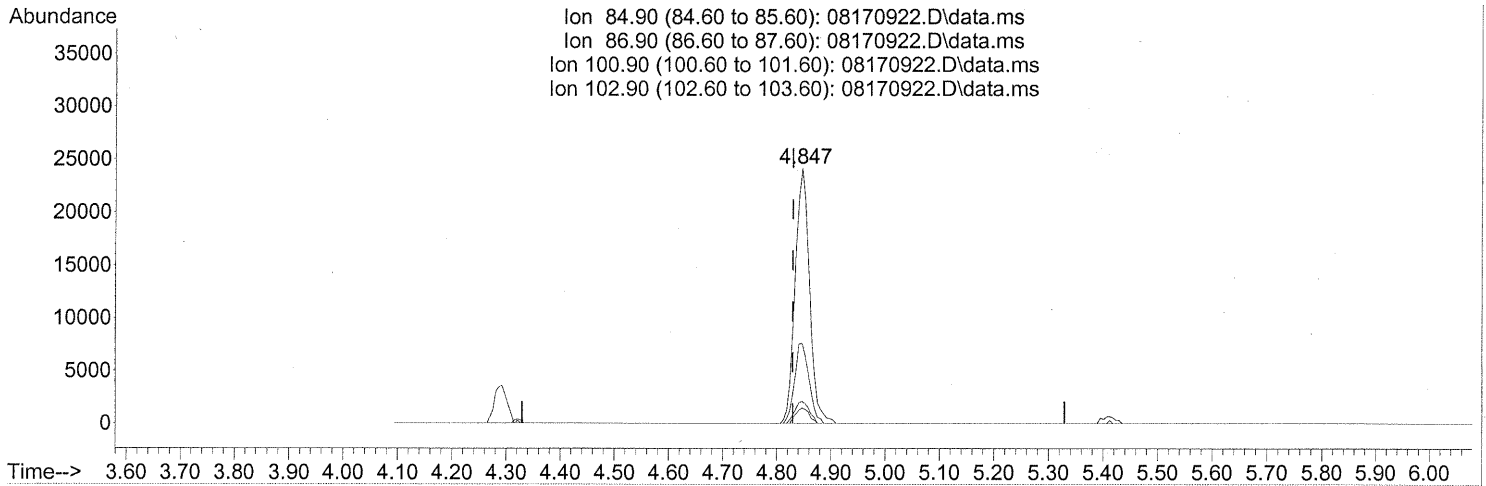
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	108	N.D.		
81) 2-Ethyltoluene	24.56	105	4355	0.084	ng	96
82) 1,2,4-Trimethylbenzene	24.83	105	12994	0.302	ng	88
83) n-Decane	24.94	57	16694	0.597	ng	93
84) Benzyl Chloride	24.99	91	94	N.D.		
85) 1,3-Dichlorobenzene	25.11	146	696	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	696	N.D.		
87) sec-Butylbenzene	25.17	105	366	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	6273	0.121	ng	92
89) 1,2,3-Trimethylbenzene	25.36	105	4142	0.095	ng	100
90) 1,2-Dichlorobenzene	25.11	146	696	N.D.		
91) d-Limonene	25.53	68	13030	0.712	ng	90
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	8701	0.292	ng	# 67
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	8026	0.137	ng	95
96) n-Dodecane	27.69	57	12726	0.368	ng	94
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	4313	0.226	ng	# 90
99) tert-Butylbenzene	24.83	119	1603	N.D.		
100) n-Butylbenzene	25.85	91	4366	0.091	ng	# 54

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.847min (+0.017) 1.82ng

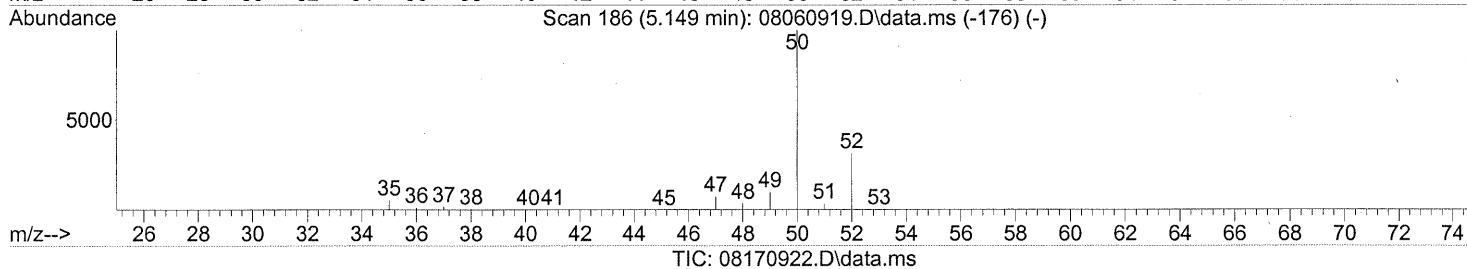
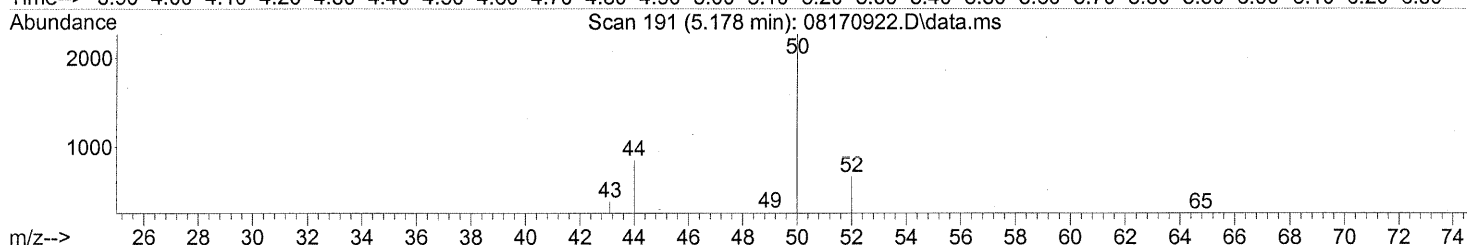
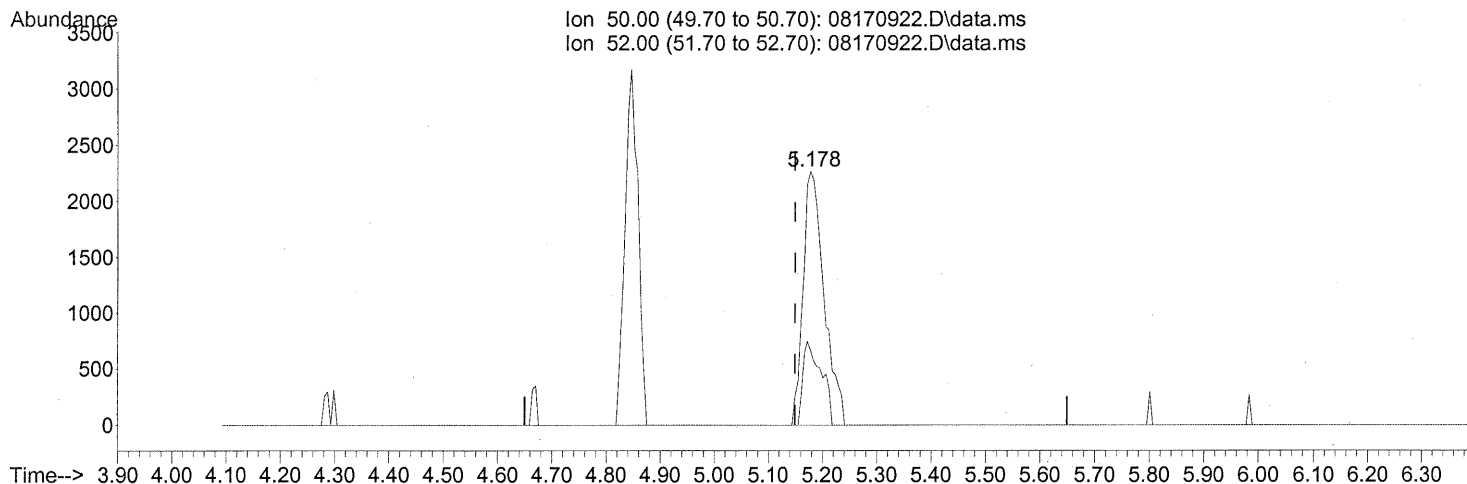
response 44893

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.39
100.90	8.80	8.58
102.90	5.20	5.57

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
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(4) Chloromethane (T)

5.178min (+0.029) 0.37ng

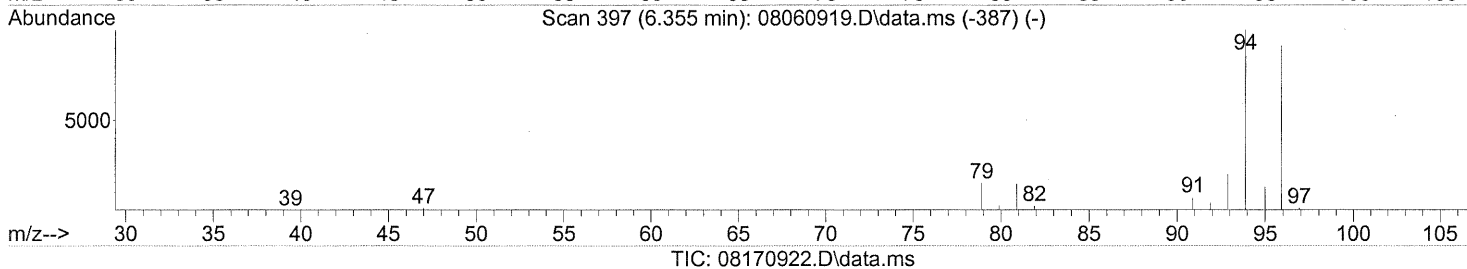
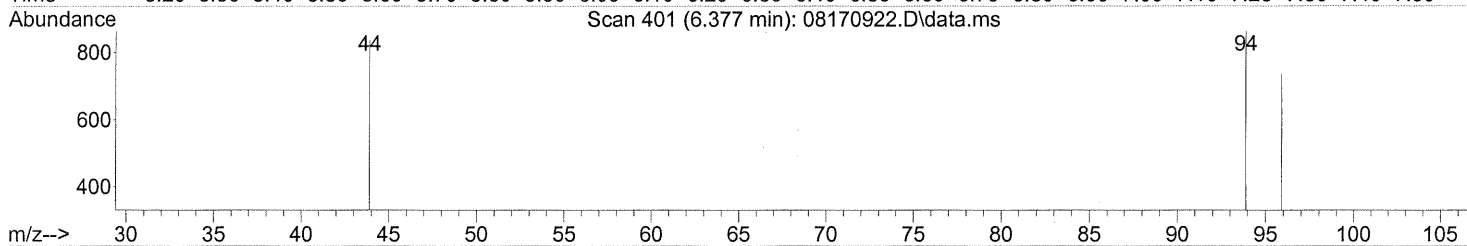
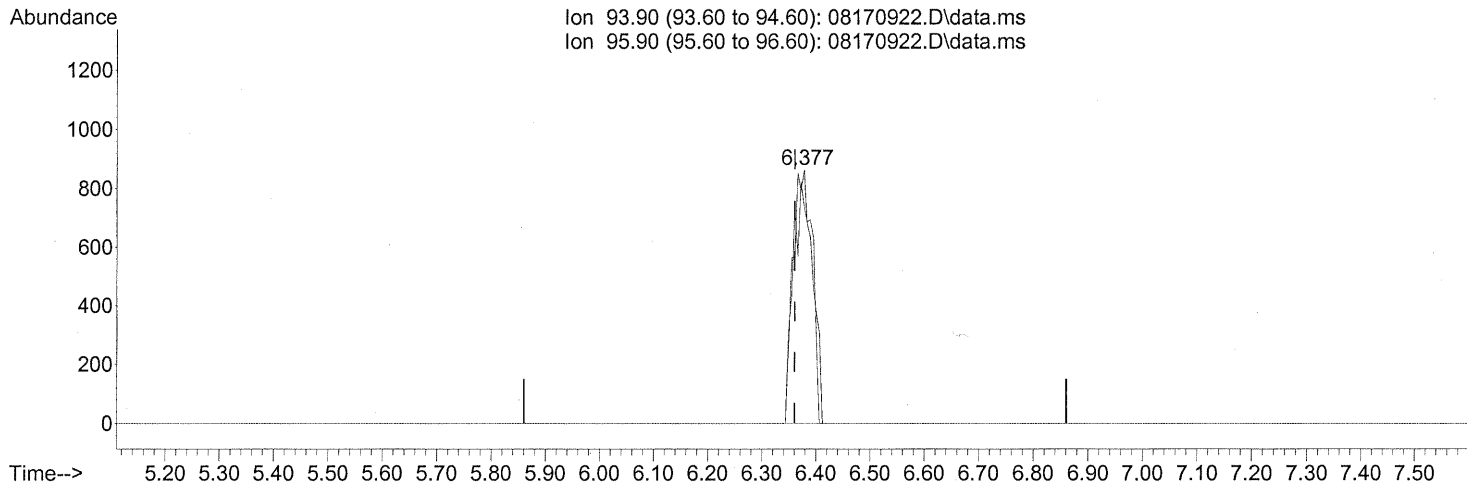
response 6101

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	28.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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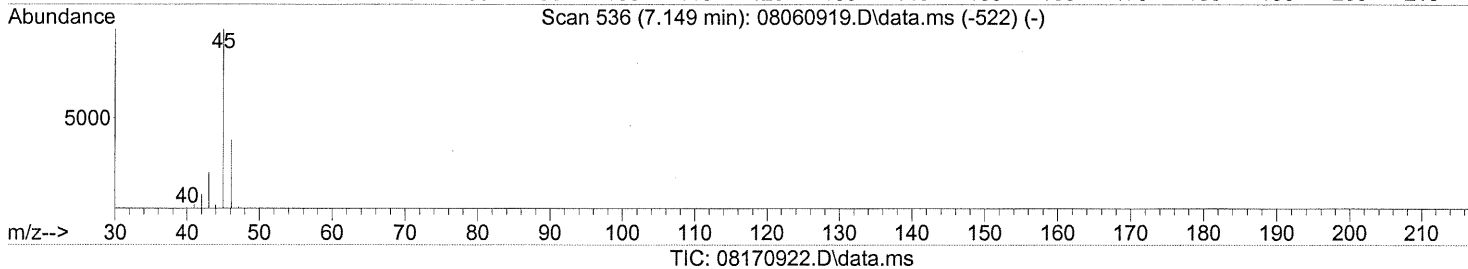
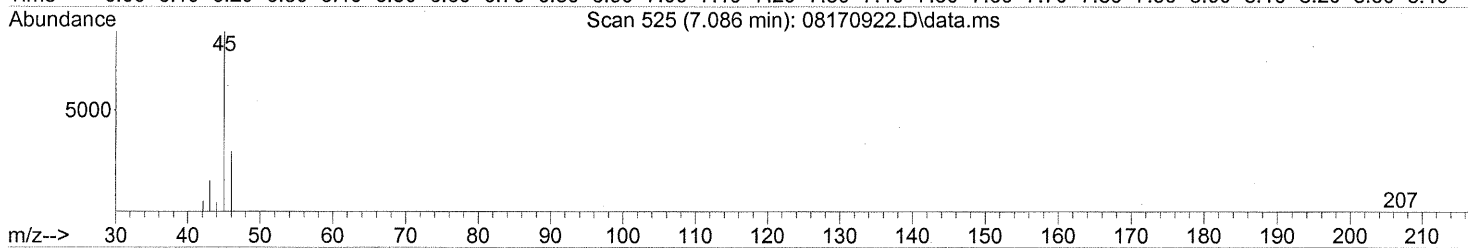
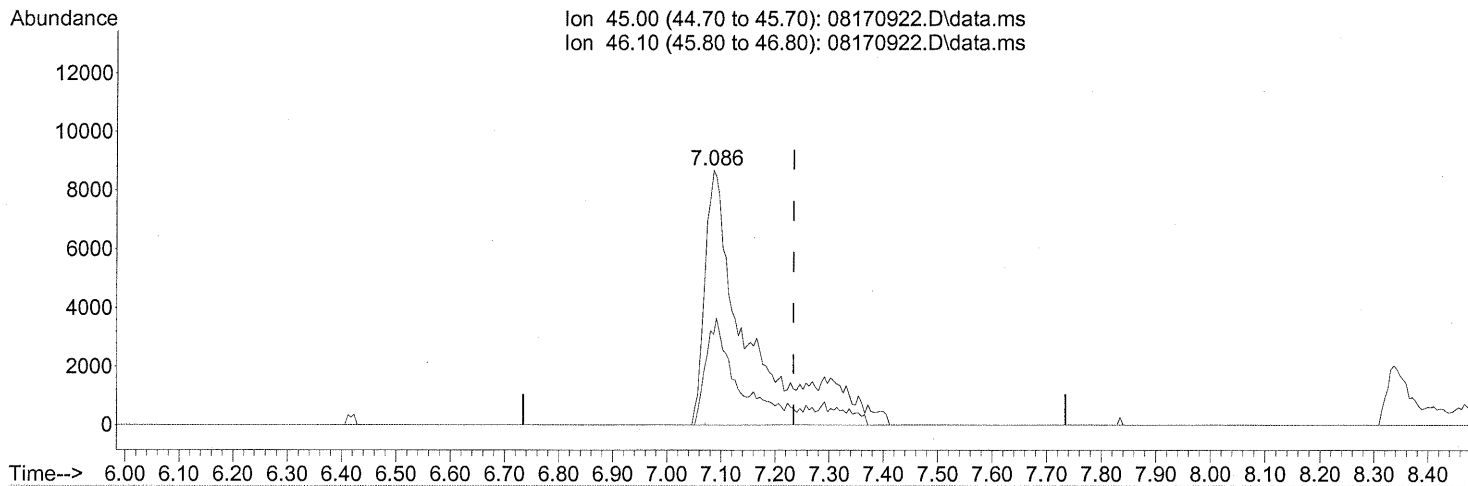
(8) Bromomethane (T)
 6.377min (+0.017) 0.22ng
 response 2181

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	93.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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QLast Update : Thu Aug 06 17:14:07 2009
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(10) Ethanol (T)

7.086min (-0.149) 5.14ng

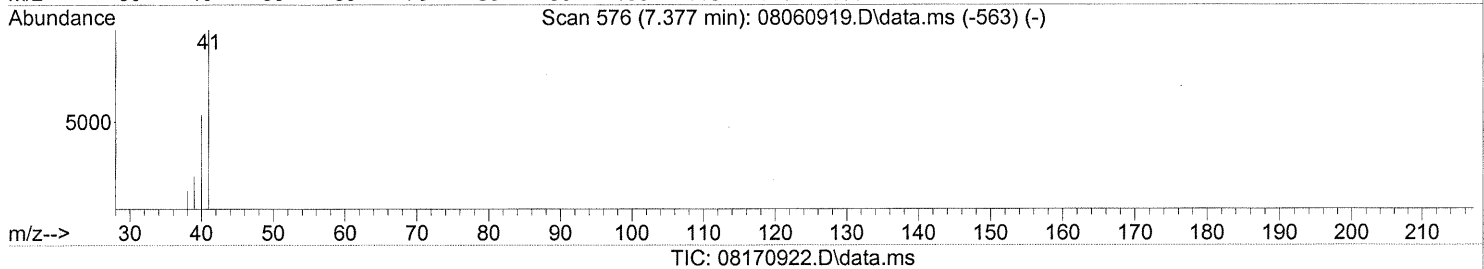
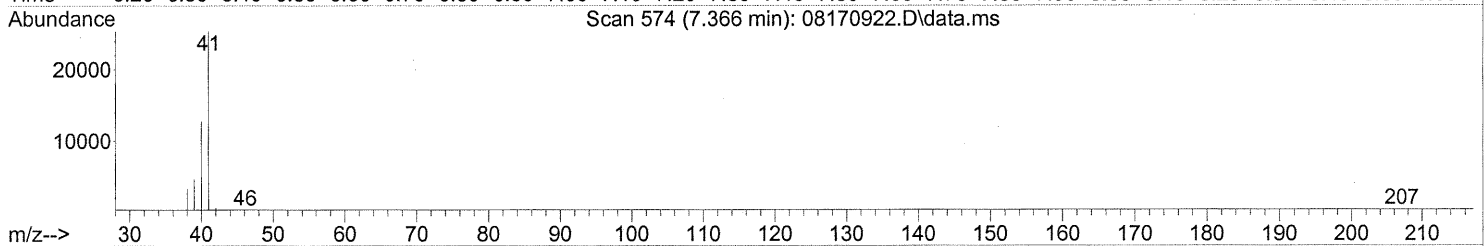
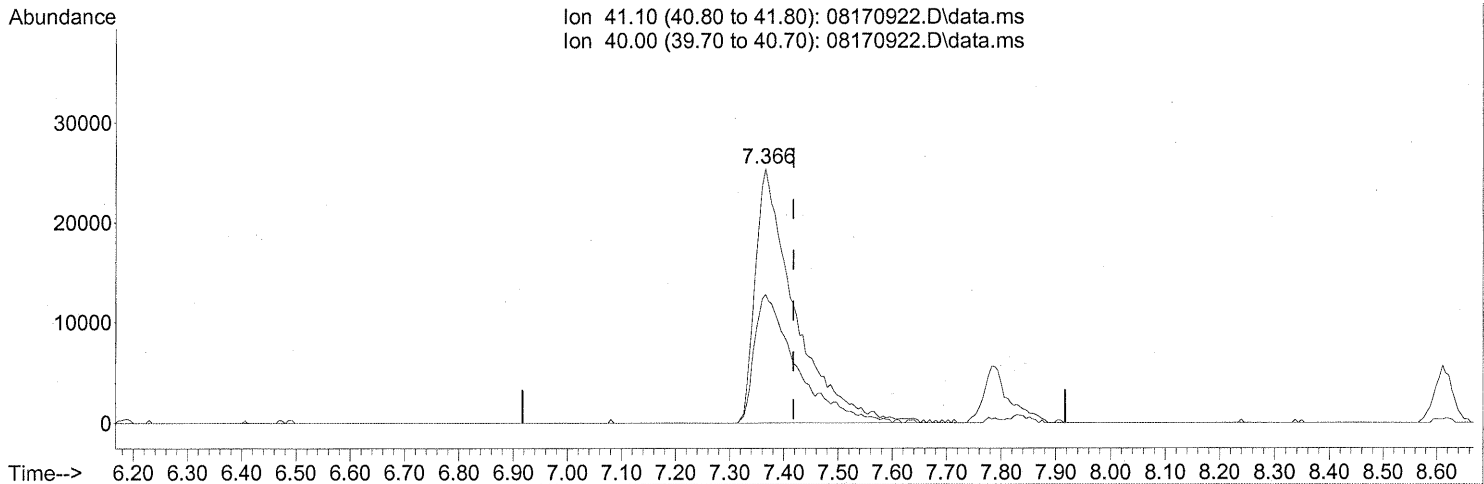
response 49241

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	34.36
0.00	0.00	0.00
0.00	0.00	0.00

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(11) Acetonitrile (T)

7.366min (-0.051) 4.58ng

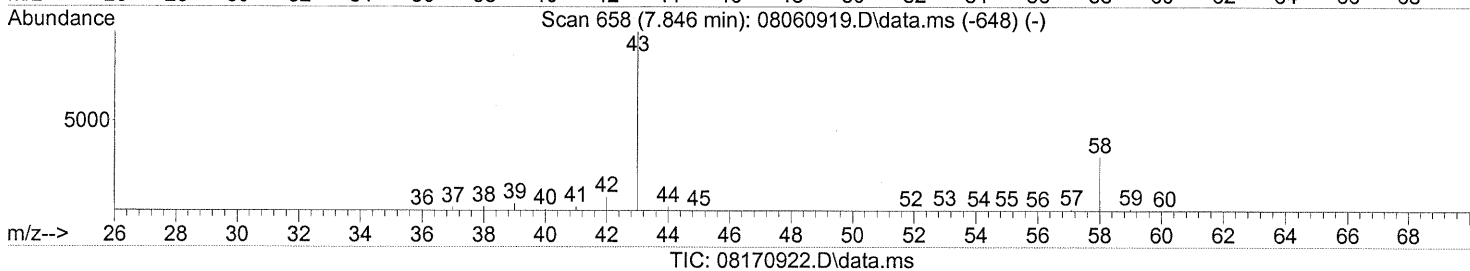
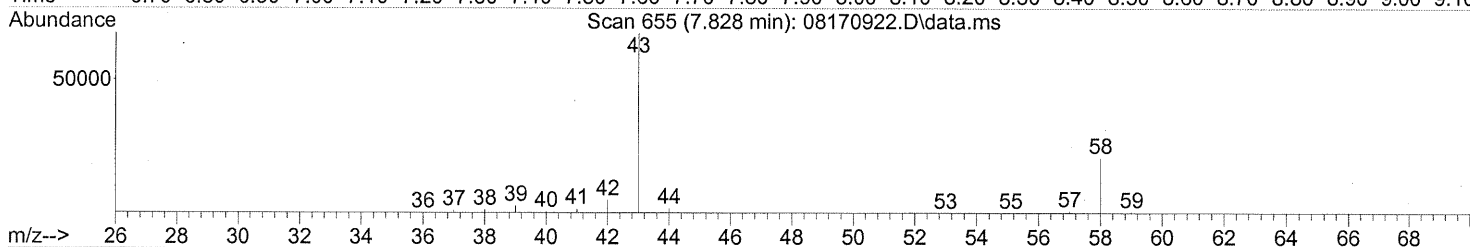
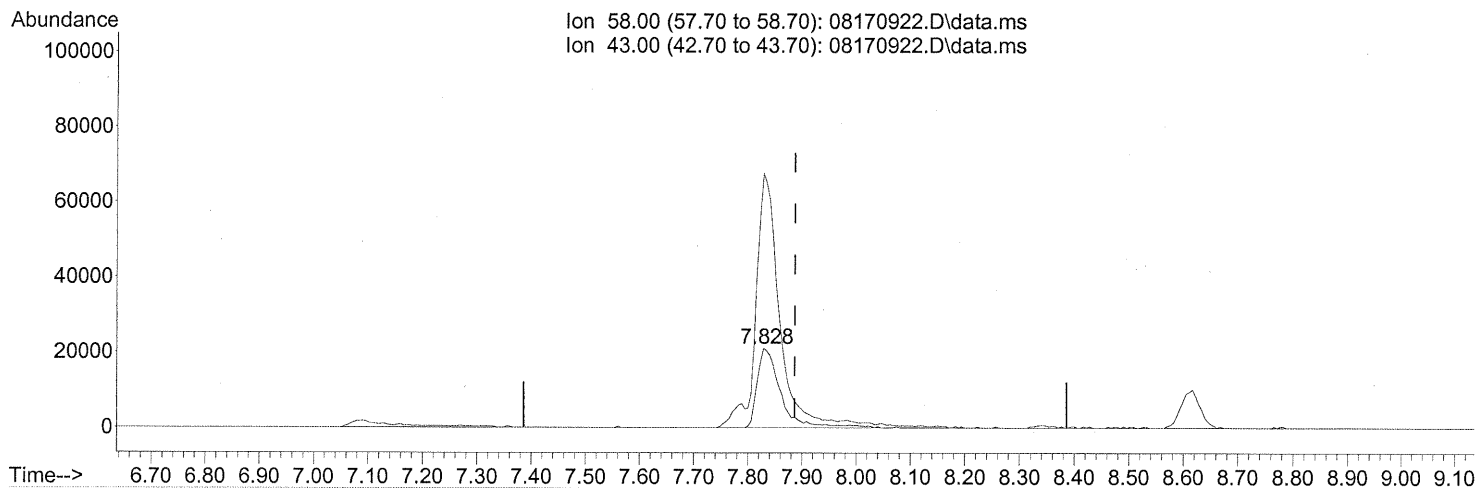
response 128367

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(13) Acetone (T)

7.828min (-0.058) 6.96ng

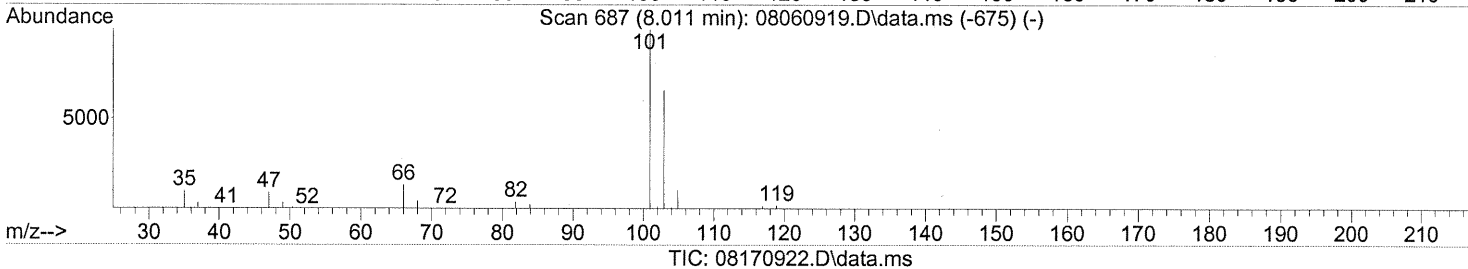
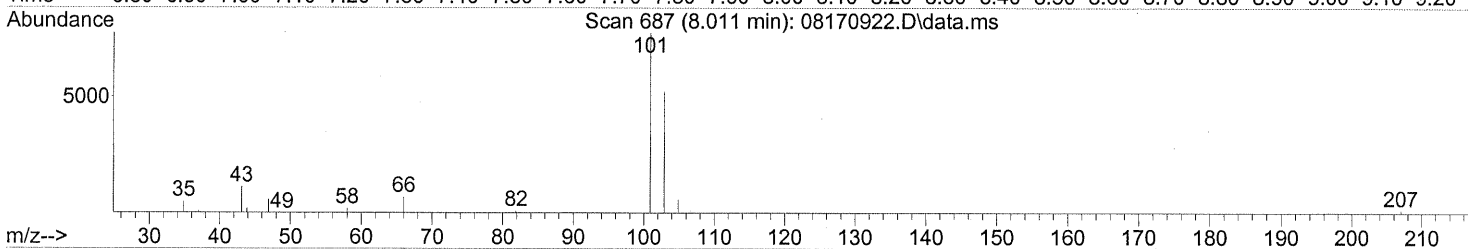
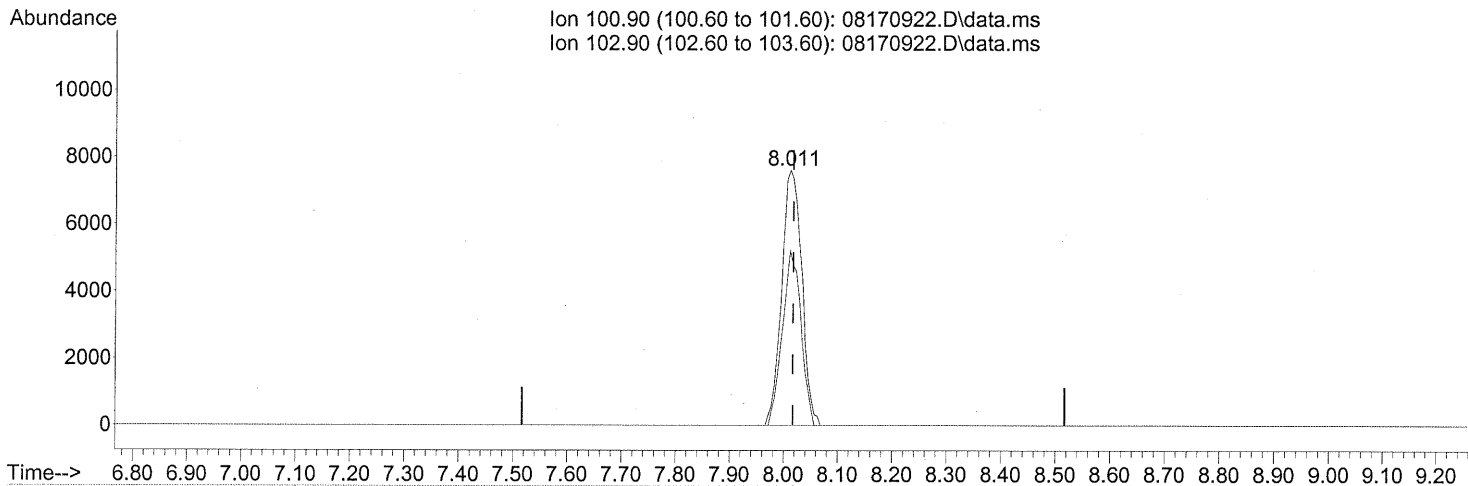
response 62897

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	317.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(14) Trichlorofluoromethane (T)

8.011min (-0.006) 0.88ng

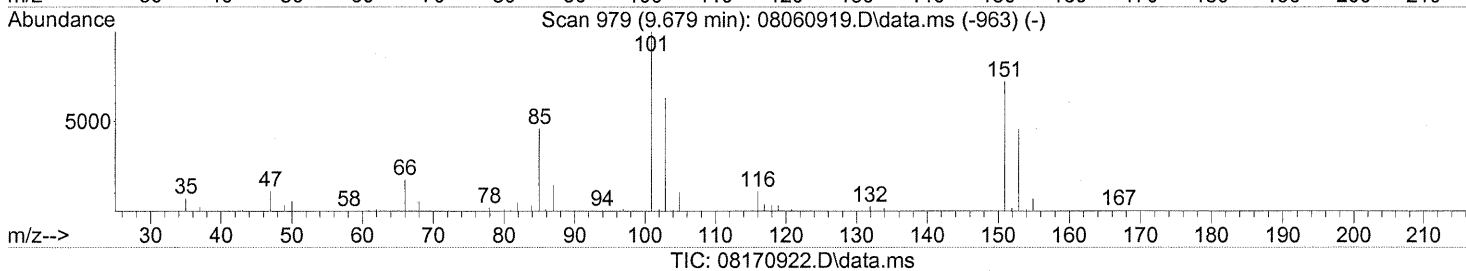
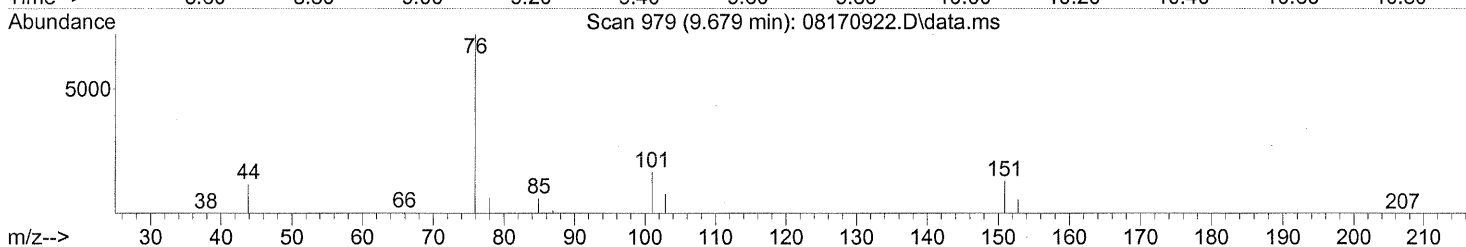
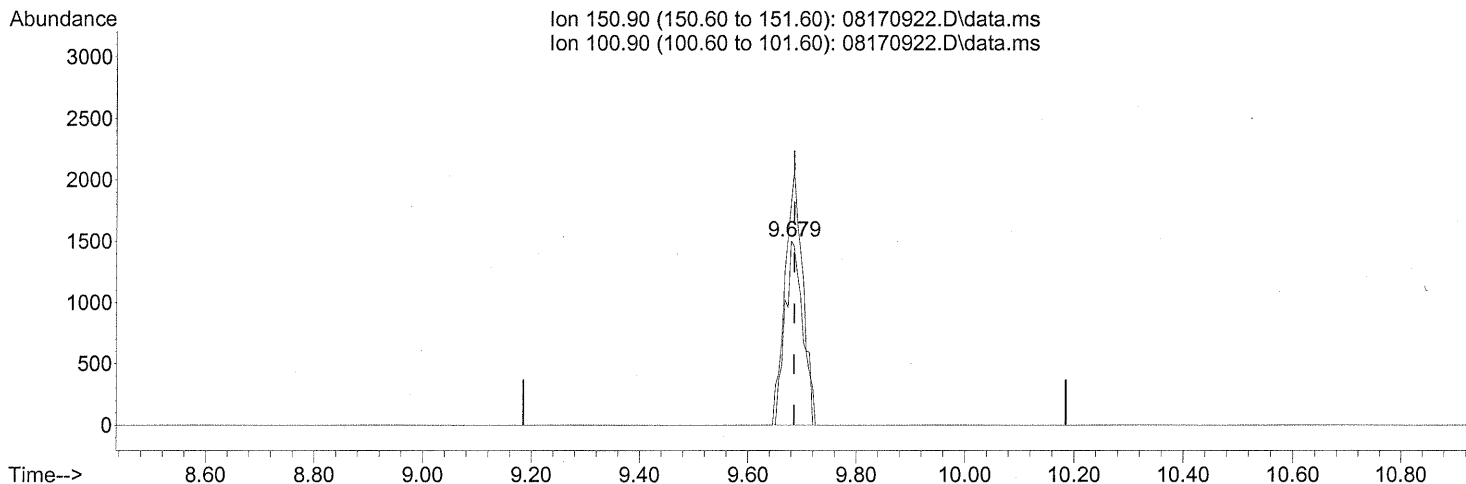
response 19716

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	63.44
0.00	0.00	0.00
0.00	0.00	0.00

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(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.42ng

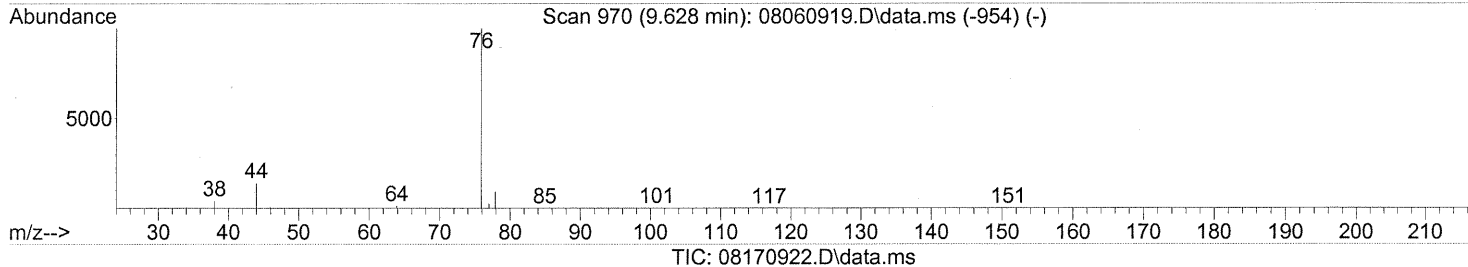
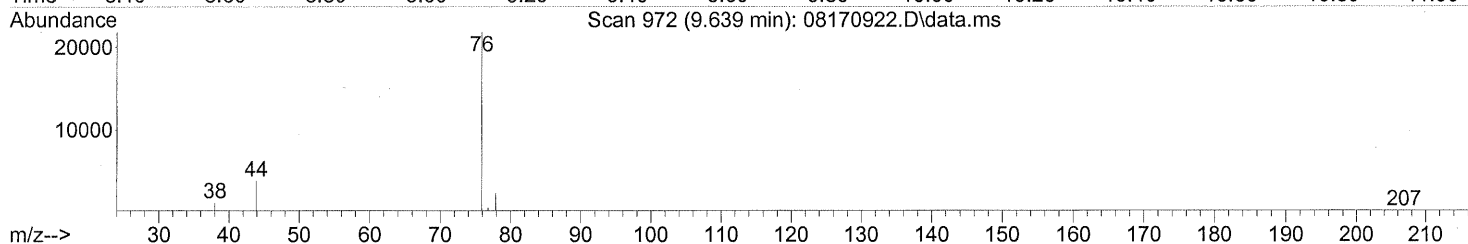
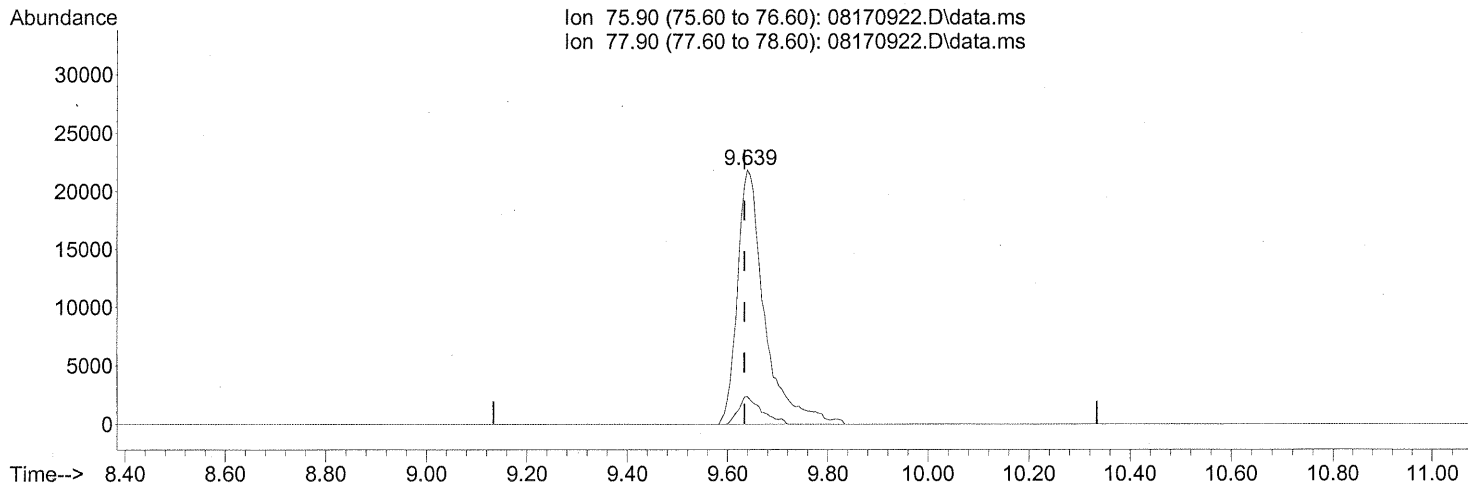
response 3415

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	137.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.639min (+0.006) 1.91ng

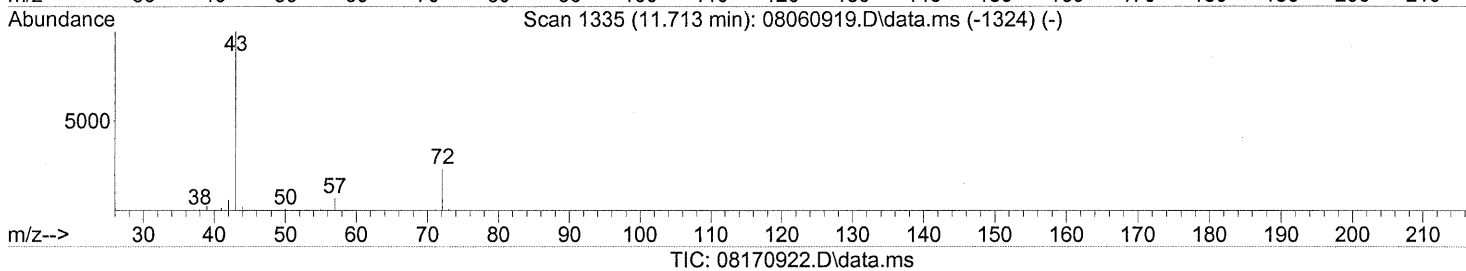
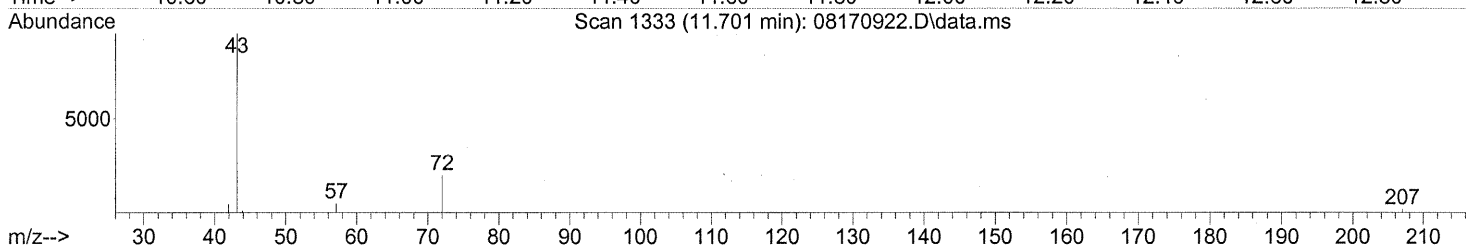
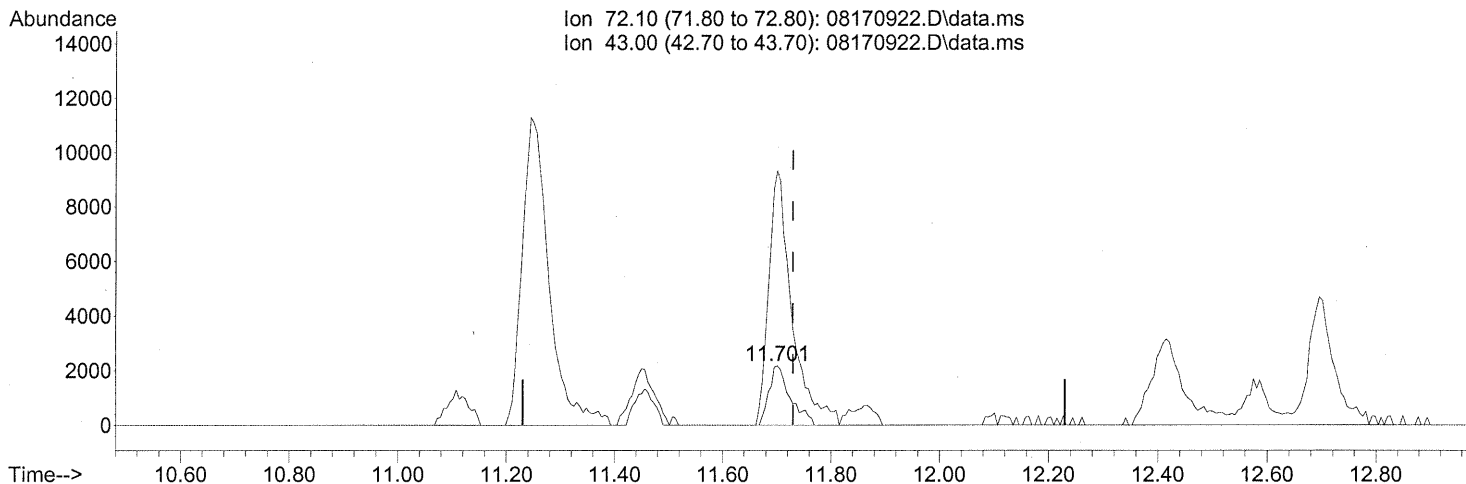
response 81718

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	9.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.701min (-0.029) 0.73ng

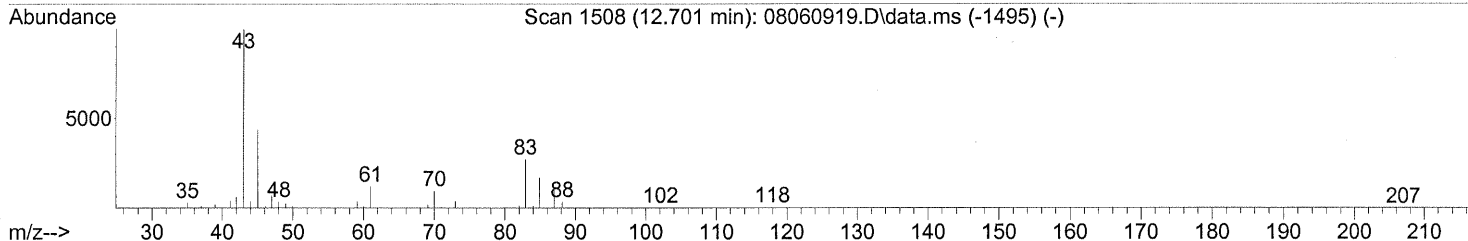
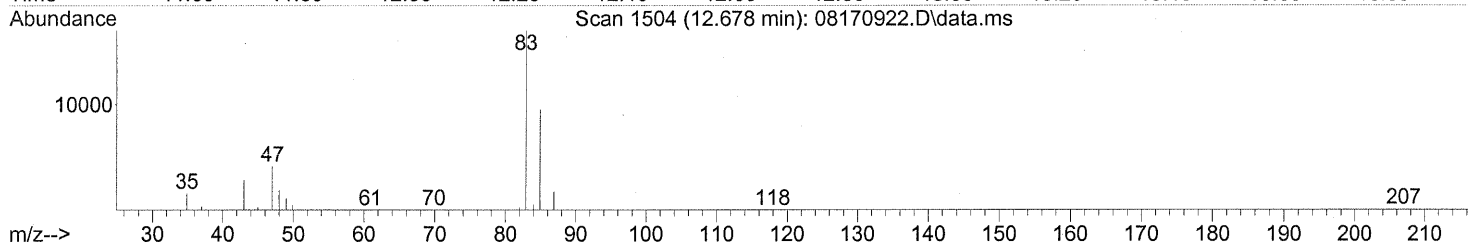
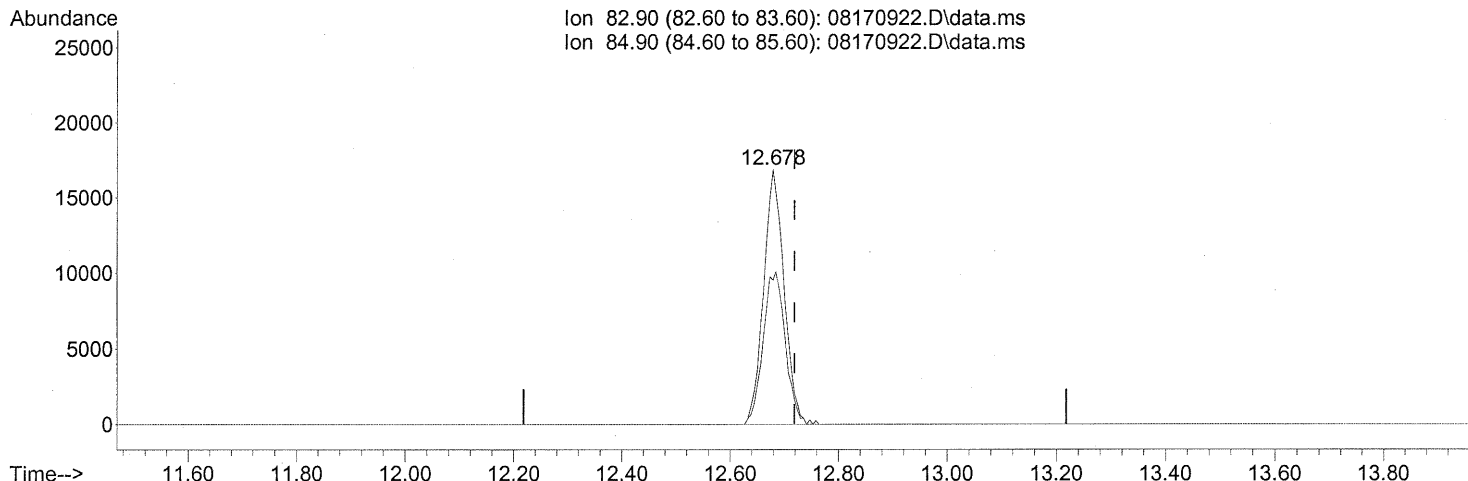
response 5990

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	465.51#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170922.D\data.ms

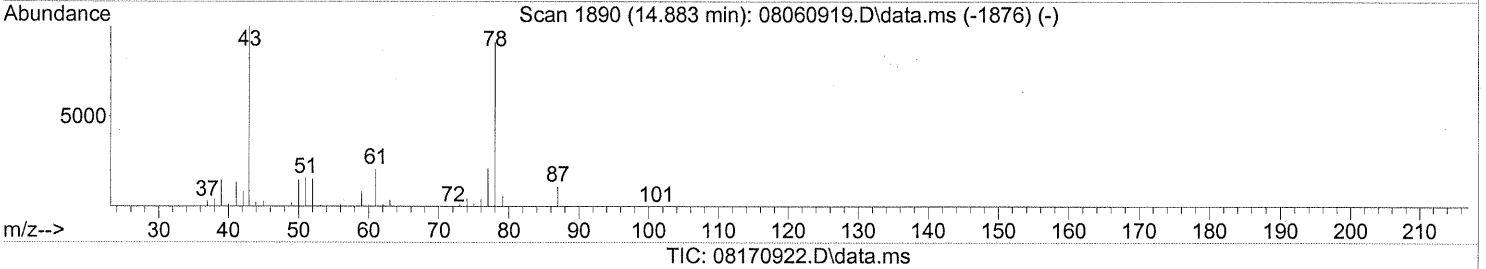
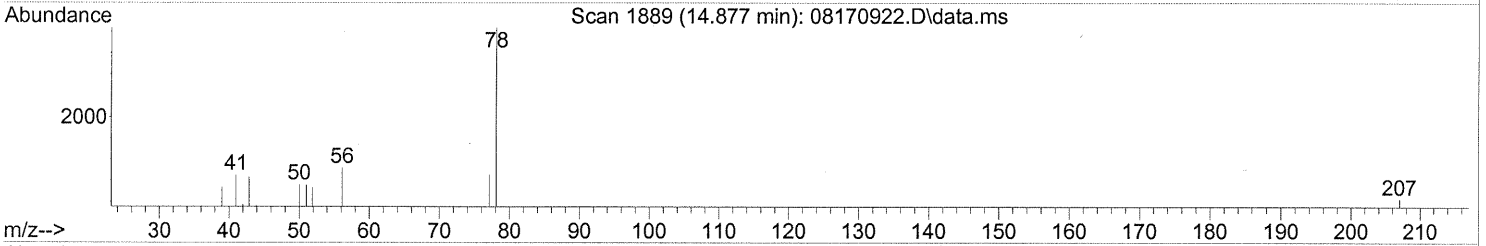
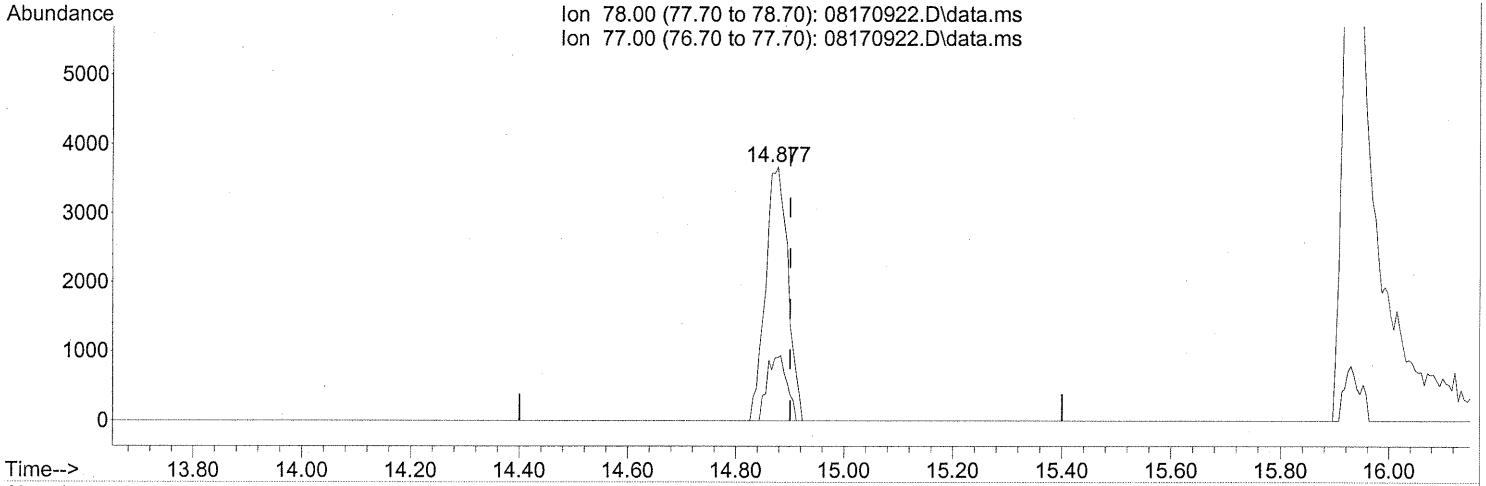
(32) Chloroform (T)
 12.678min (-0.040) 2.31ng
 response 44297

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	64.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170922.D
Acq On : 17 Aug 2009 20:05
Operator : WA
Sample : P0902721-015 (1000mL)
Misc : Env. Health & Engineering 100204
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



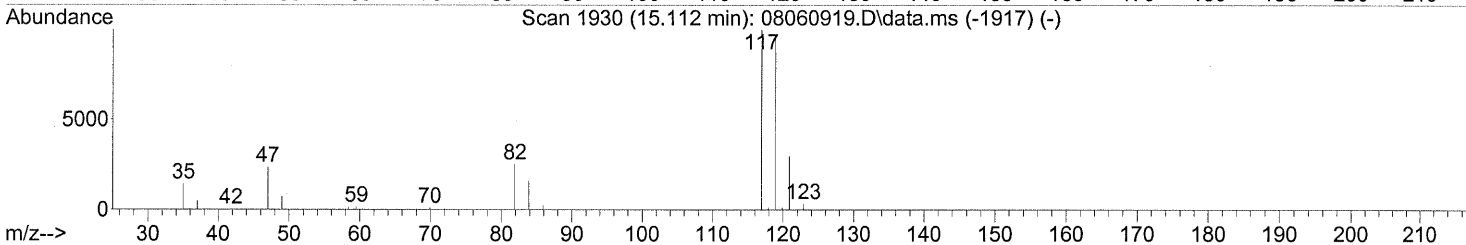
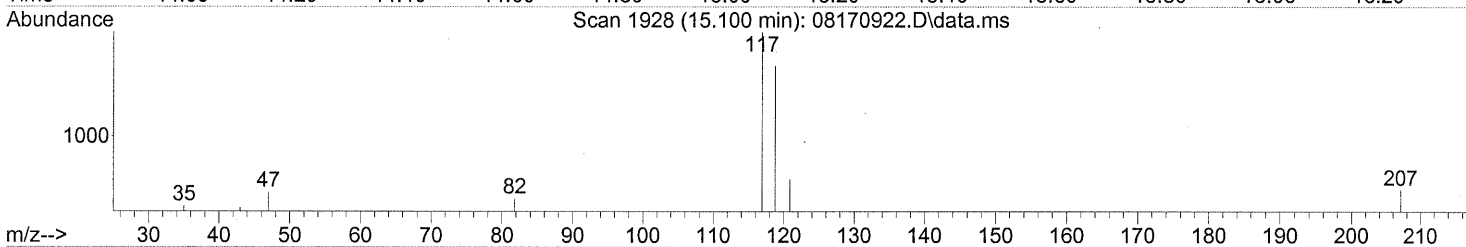
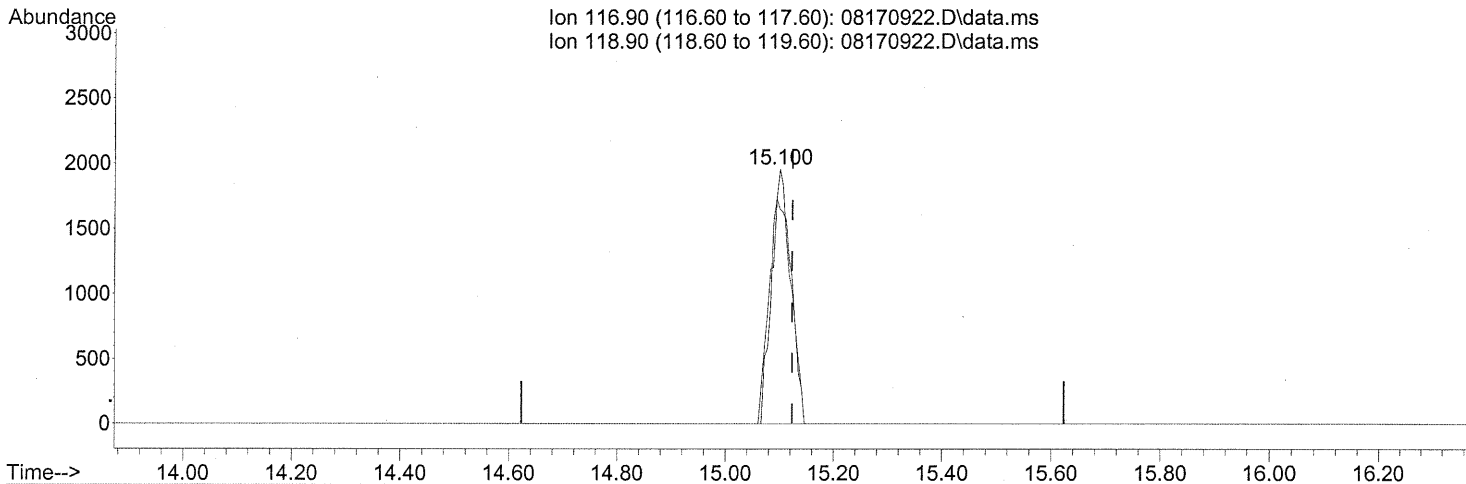
(41) Benzene (T)
14.877min (-0.023) 0.22ng
response 10631

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	22.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170922.D\data.ms

(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.31ng

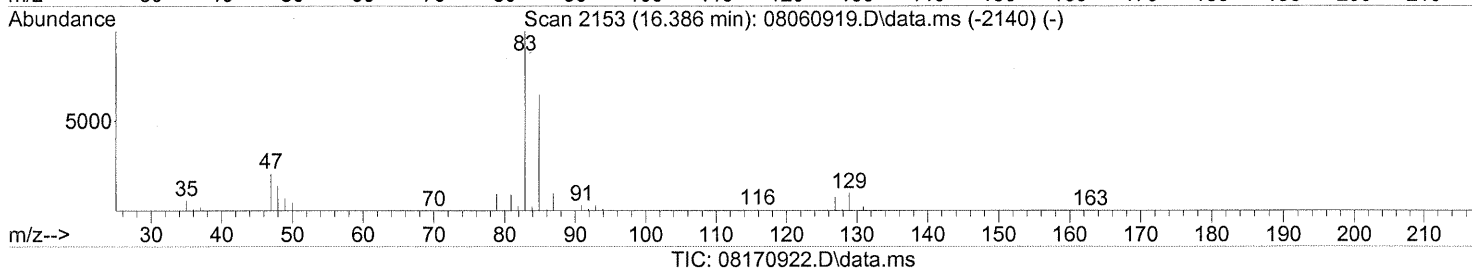
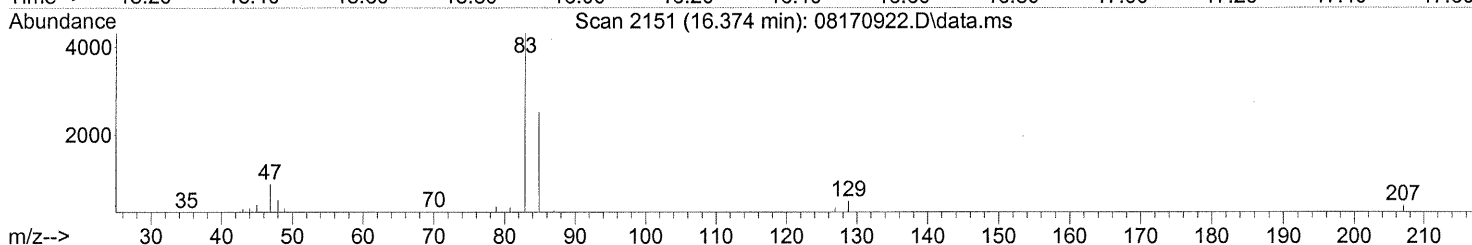
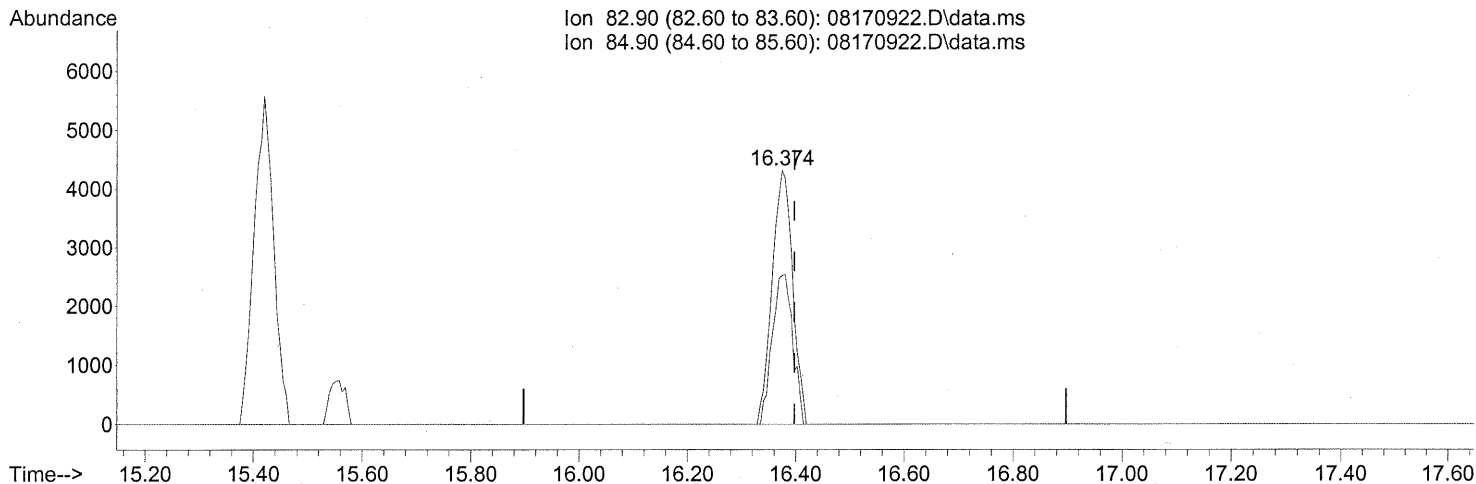
response 4843

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	103.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.374min (-0.023) 0.71ng

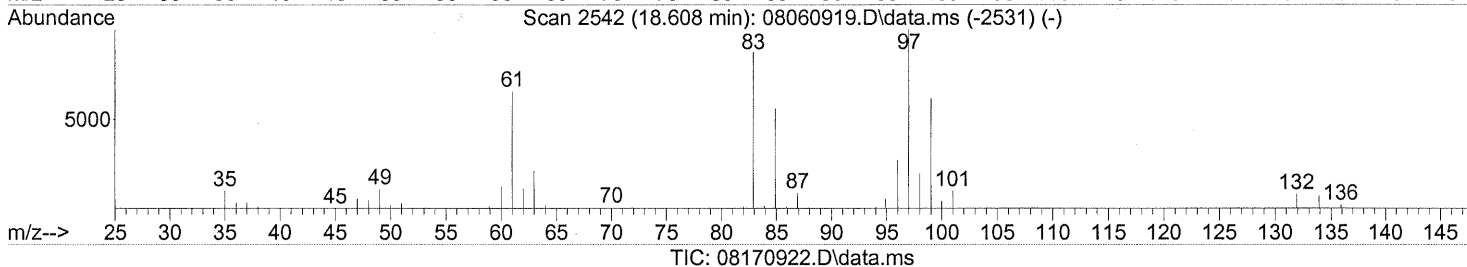
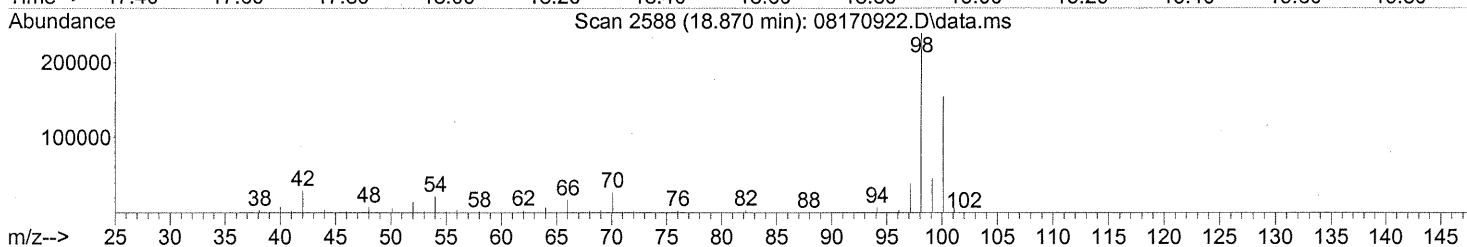
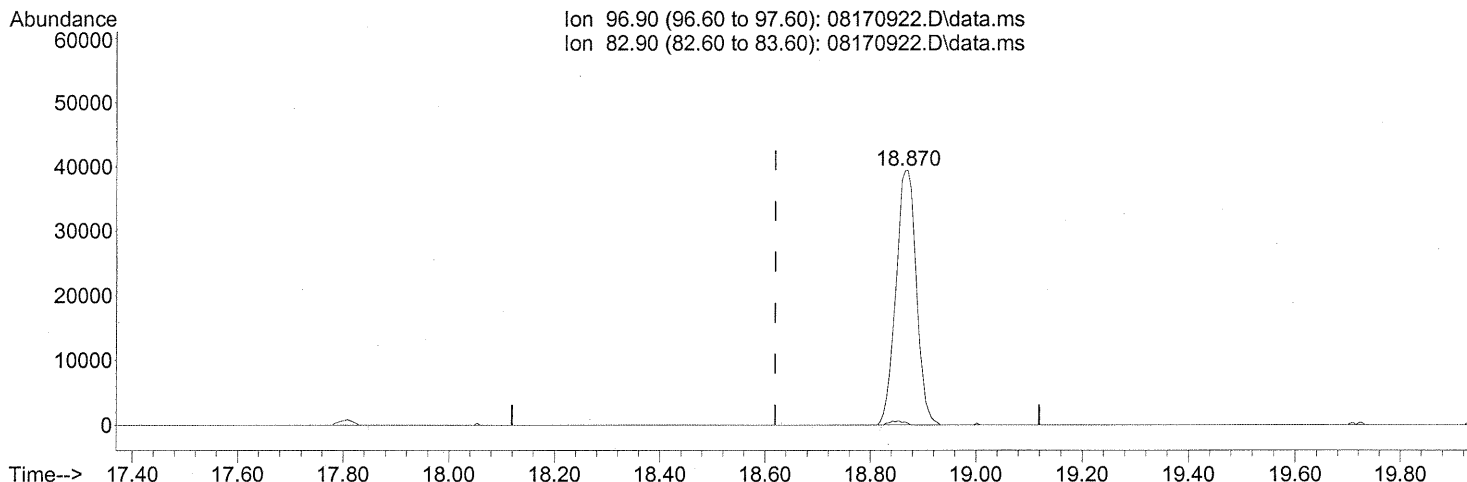
response 11413

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	58.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170922.D
Acq On : 17 Aug 2009 20:05
Operator : WA
Sample : P0902721-015 (1000mL)
Misc : Env. Health & Engineering 100204
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

FP UR 8/21/09

18.870min (+0.251) 9.77ng

response 105221

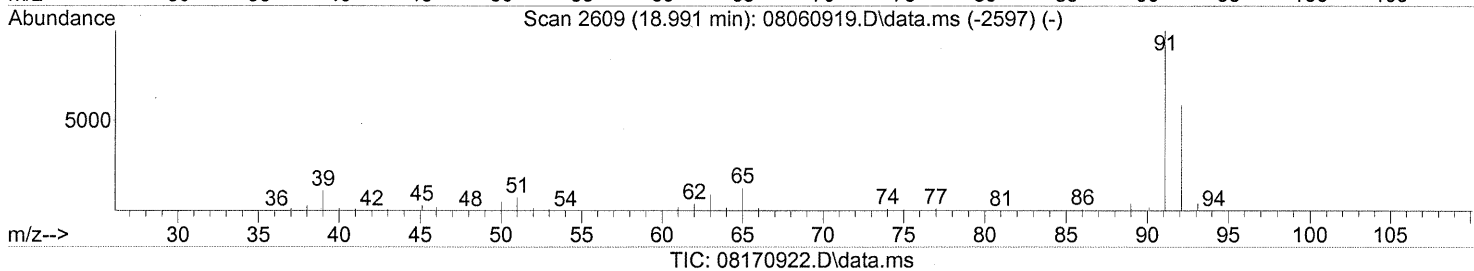
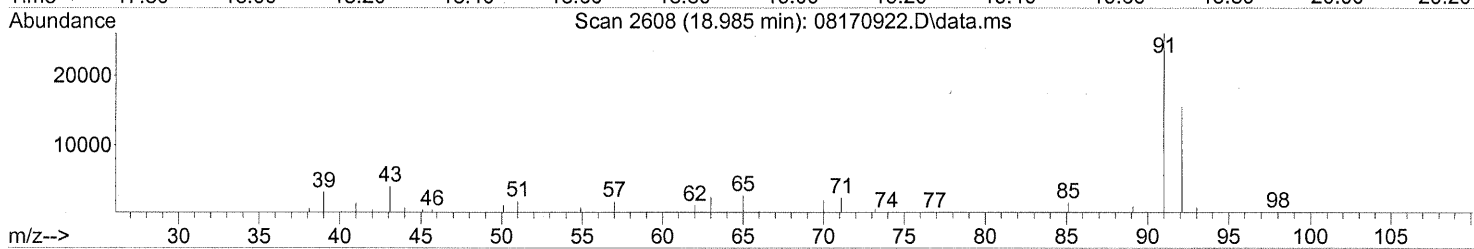
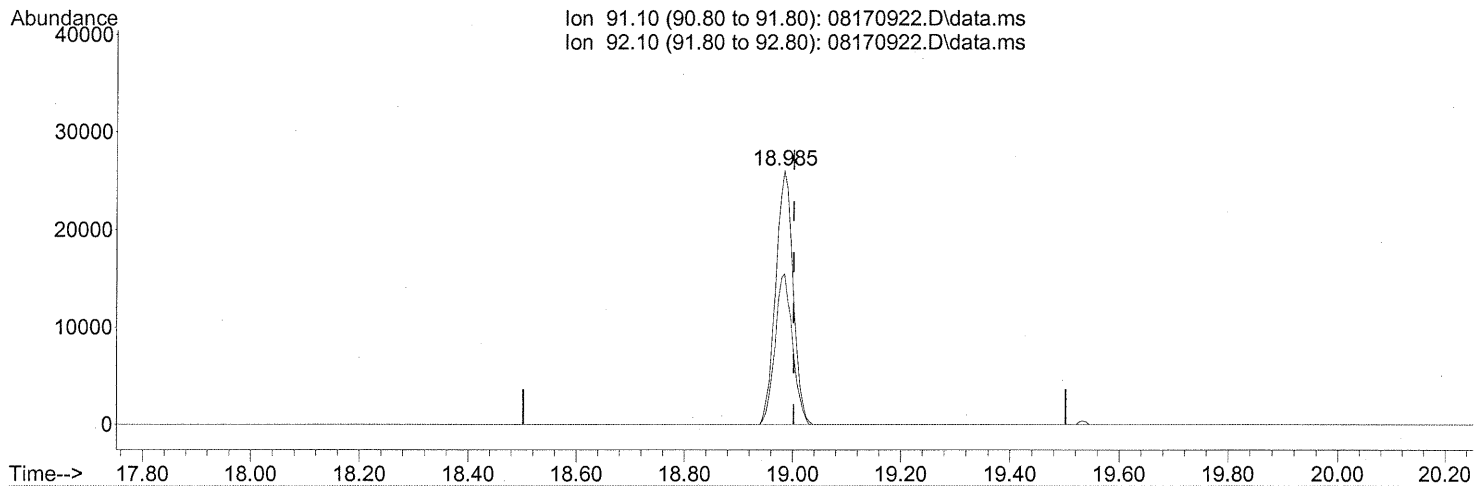
8/21/09

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.10#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 1.27ng

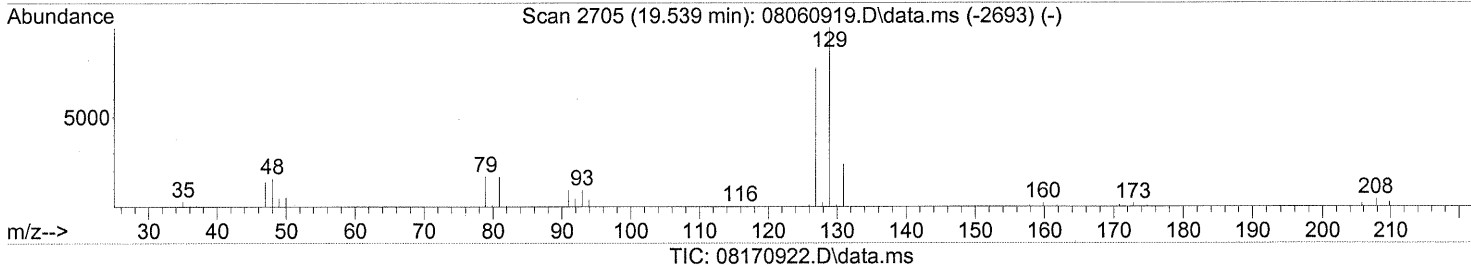
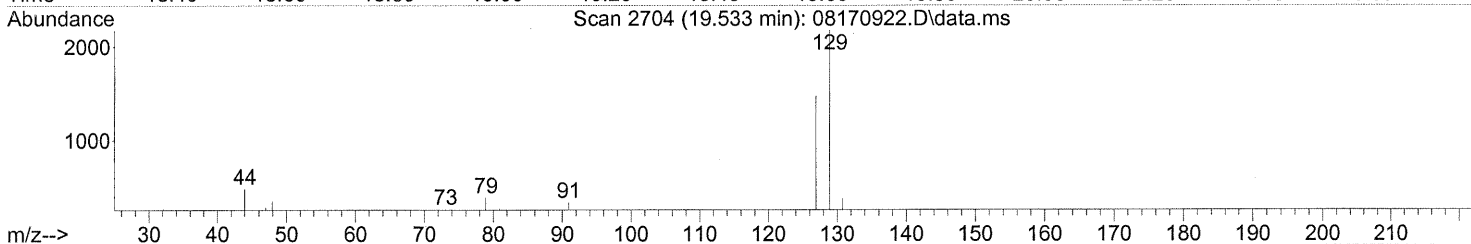
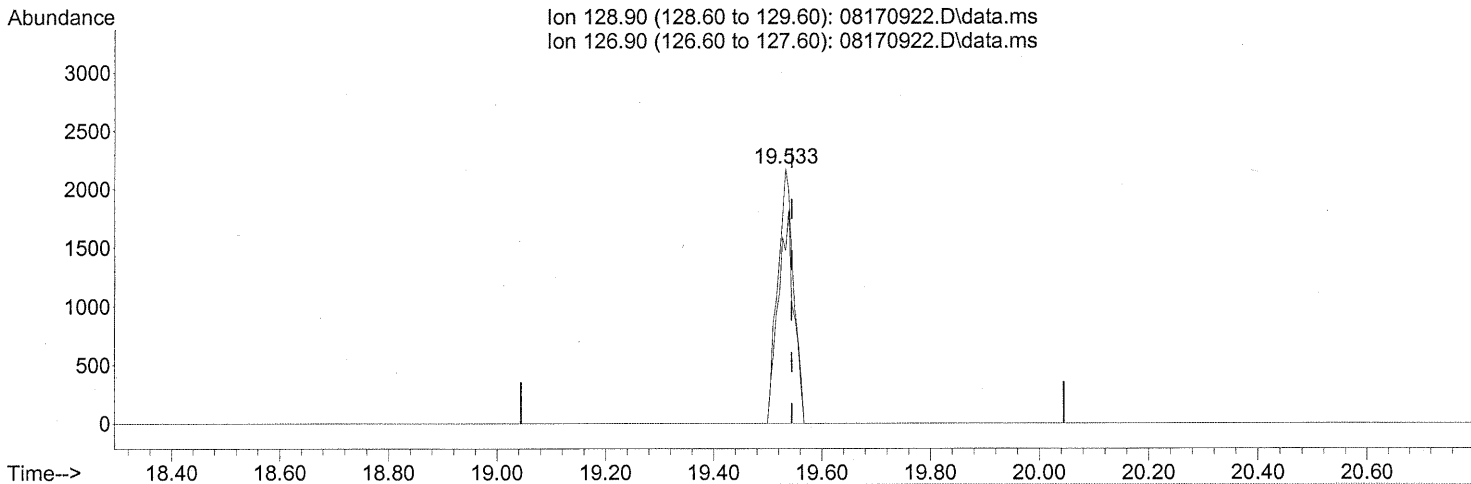
response 58720

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.533min (-0.011) 0.41ng

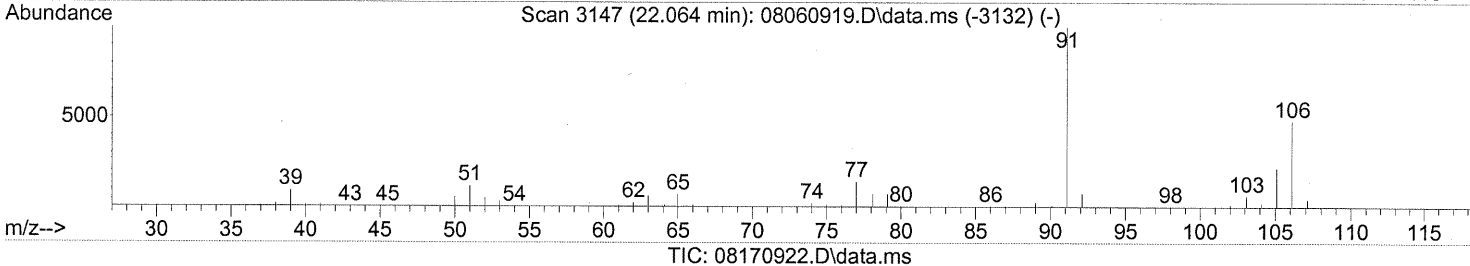
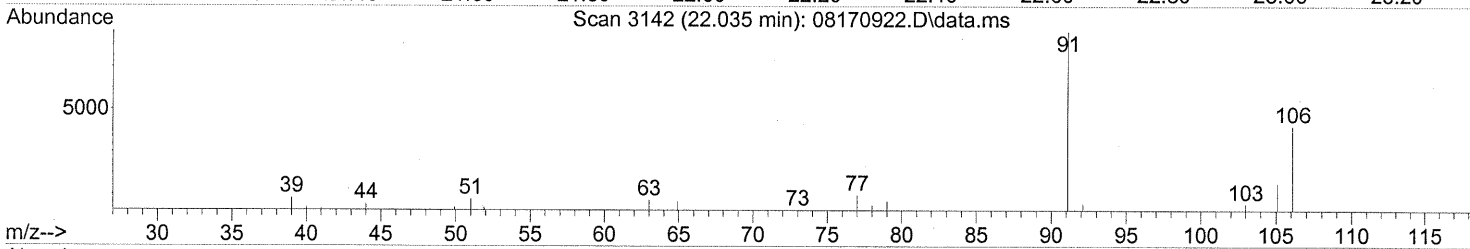
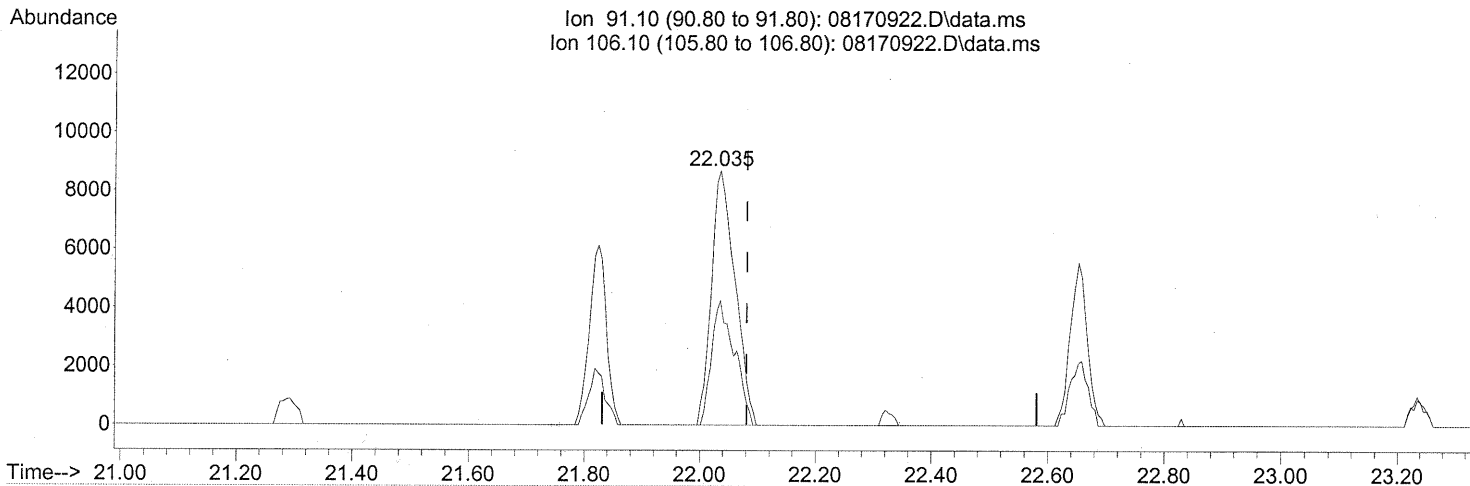
response 4476

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	82.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170922.D
Acq On : 17 Aug 2009 20:05
Operator : WA
Sample : P0902721-015 (1000mL)
Misc : Env. Health & Engineering 100204
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(67) m- & p-Xylenes (T)
22.035min (-0.046) 0.58ng

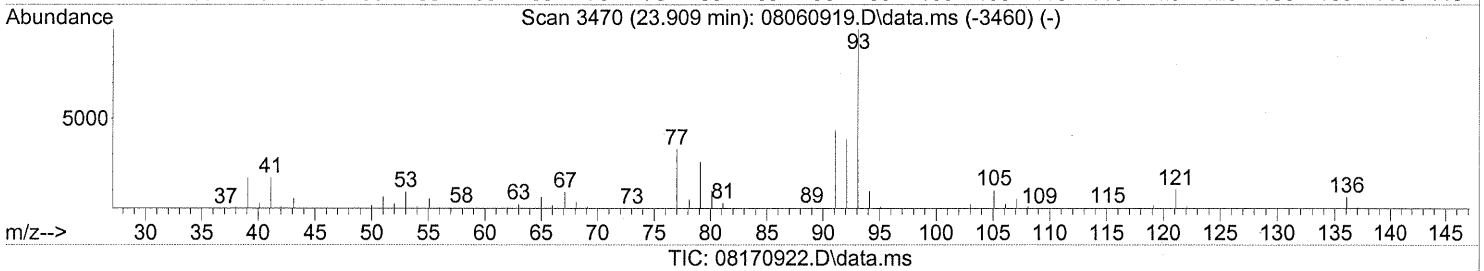
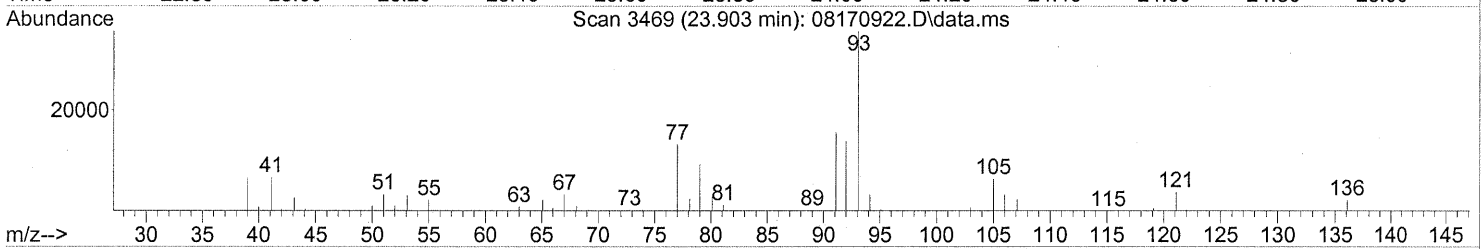
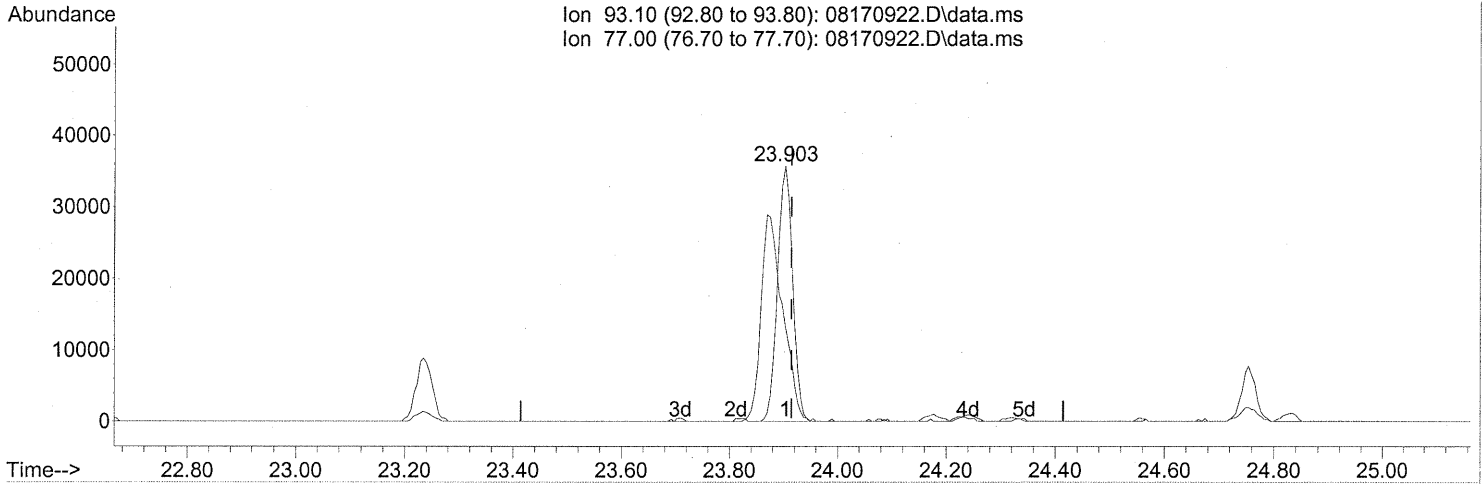
response 24705

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



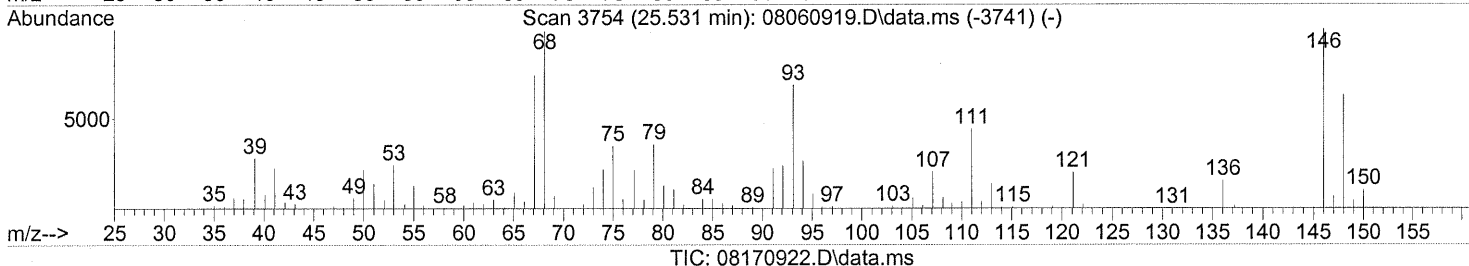
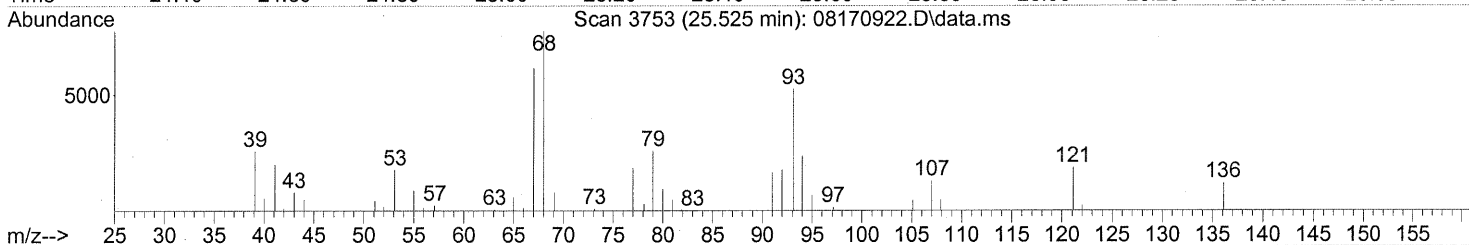
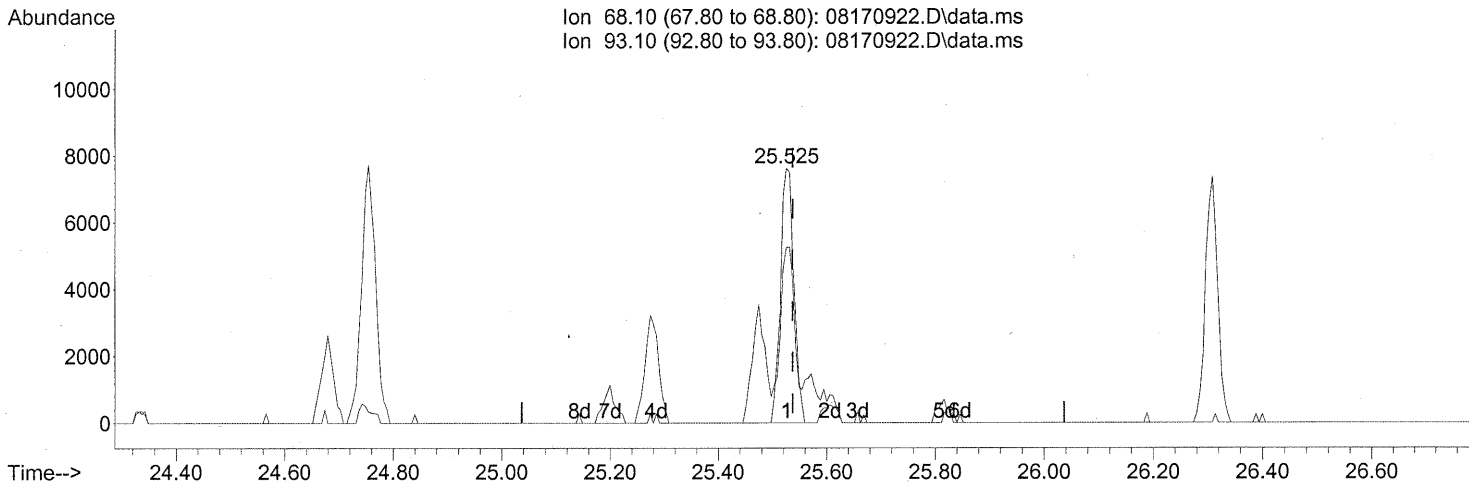
(75) alpha-Pinene (T)
 23.903min (-0.011) 2.51ng
 response 69555

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170922.D
 Acq On : 17 Aug 2009 20:05
 Operator : WA
 Sample : P0902721-015 (1000mL)
 Misc : Env. Health & Engineering 100204
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 06:48:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(91) d-Limonene (T)
 25.525min (-0.011) 0.71ng
 response 13030

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	75.98
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100205

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-016

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: AC00320

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/17 - 8/18/09

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

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

Canister Dilution Factor: 1.49

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	1.7	0.75	0.99	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.75	0.53	0.15	
74-87-3	Chloromethane	0.79	0.15	0.38	0.072	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.067	
74-83-9	Bromomethane	0.35	0.15	0.089	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	Ethanol	57	7.5	30	4.0	
75-05-8	Acetonitrile	170	0.75	100	0.44	E
107-02-8	Acrolein	6.7	0.75	2.9	0.33	
67-64-1	Acetone	110	7.5	47	3.1	
75-69-4	Trichlorofluoromethane	1.3	0.15	0.24	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.7	0.75	1.9	0.30	
107-13-1	Acrylonitrile	ND	0.75	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.038	
75-09-2	Methylene Chloride	1.6	0.75	0.47	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.048	
76-13-1	Trichlorotrifluoroethane	0.60	0.15	0.078	0.019	
75-15-0	Carbon Disulfide	2.9	0.75	0.93	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.038	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	ND	7.5	ND	2.1	
78-93-3	2-Butanone (MEK)	7.1	0.75	2.4	0.25	

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.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100205
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-016

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: AC00320

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17 - 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 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	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
141-78-6	Ethyl Acetate	0.92	0.75	0.26	0.21	
110-54-3	n-Hexane	6.1	0.75	1.7	0.21	
67-66-3	Chloroform	0.22	0.15	0.045	0.031	
109-99-9	Tetrahydrofuran (THF)	1.1	0.75	0.38	0.25	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	4.4	0.15	1.4	0.047	
56-23-5	Carbon Tetrachloride	0.50	0.15	0.080	0.024	
110-82-7	Cyclohexane	1.1	0.75	0.33	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.75	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.75	ND	0.18	
142-82-5	n-Heptane	4.5	0.75	1.1	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	ND	0.16	
108-10-1	4-Methyl-2-pentanone	1.4	0.75	0.33	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	43	0.75	11	0.20	
591-78-6	2-Hexanone	1.1	0.75	0.26	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	0.75	ND	0.16	

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: _____ Date: 8/24/09 **640**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100205
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-016

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: AC00320

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17 - 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 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	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	2.3	0.75	0.50	0.16	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	7.2	0.75	1.7	0.17	
179601-23-1	m,p-Xylenes	23	0.75	5.2	0.17	
75-25-2	Bromoform	ND	0.75	ND	0.072	
100-42-5	Styrene	3.8	0.75	0.88	0.18	
95-47-6	o-Xylene	10	0.75	2.3	0.17	
111-84-2	n-Nonane	6.1	0.75	1.2	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	0.75	0.75	0.15	0.15	
80-56-8	alpha-Pinene	210	0.75	37	0.13	D
103-65-1	n-Propylbenzene	2.6	0.75	0.53	0.15	
622-96-8	4-Ethyltoluene	4.3	0.75	0.87	0.15	
108-67-8	1,3,5-Trimethylbenzene	4.0	0.75	0.82	0.15	
95-63-6	1,2,4-Trimethylbenzene	15	0.75	3.0	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.029	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	35	0.75	6.4	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	ND	0.077	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	ND	0.10	
91-20-3	Naphthalene	1.3	0.75	0.24	0.14	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

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

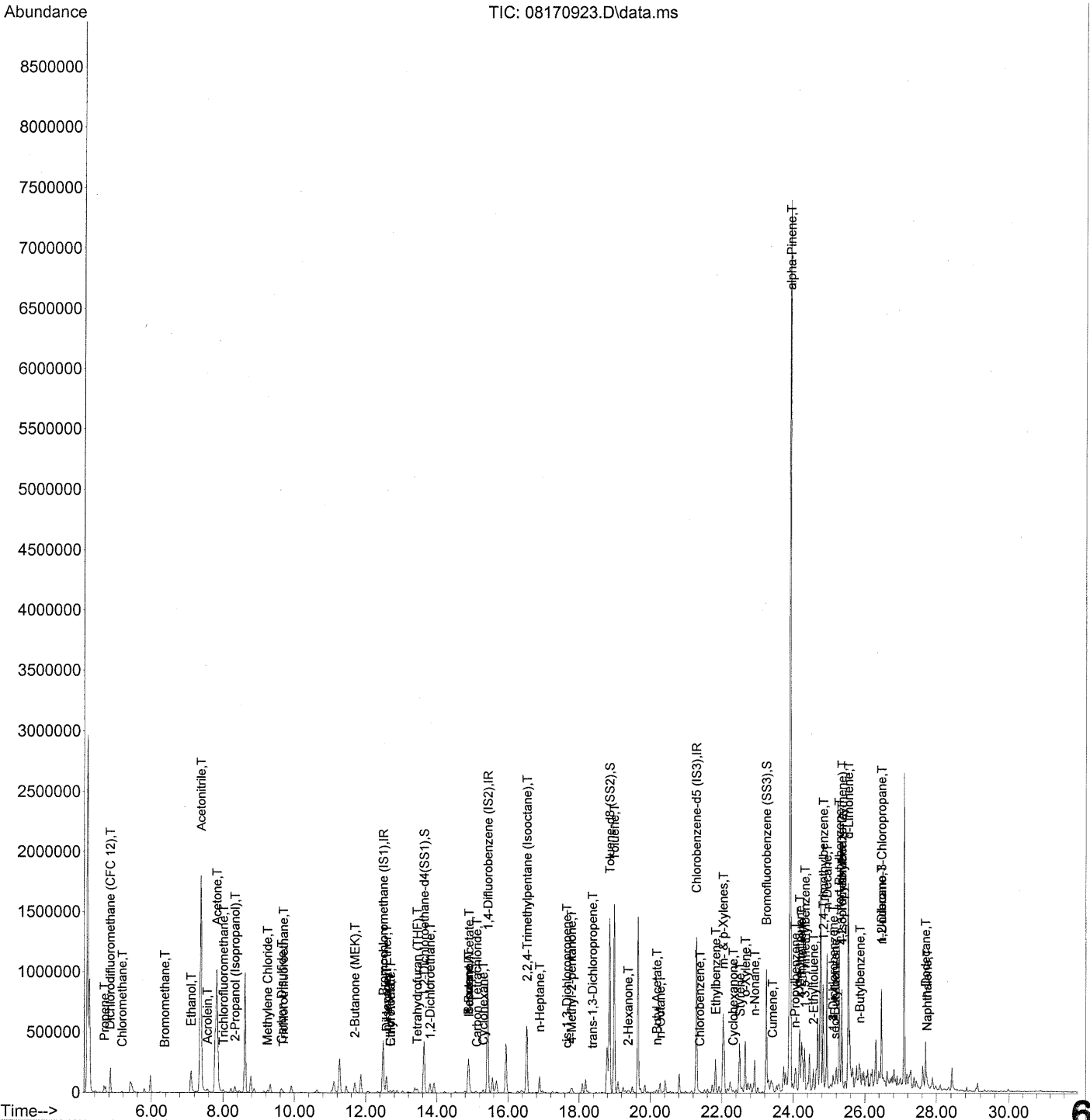
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

Verified By: _____ Date: 8/24/09 **641**

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170923.D
Acq On : 17 Aug 2009 20:47
Operator : WA
Sample : P0902721-016 (1000mL)
Misc : Env. Health & Engineering 100205 ✓
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 11:36:54 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



642

Data Path : J:\MS13\DATA\2009_08\17\
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 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205 ✓
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	217293	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1118522	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	536193	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	436509	23.112	ng	-0.03
Spiked Amount	25.000			Recovery =	92.44%	✓
57) Toluene-d8 (SS2)	18.85	98	1224809	26.142	ng	-0.01
Spiked Amount	25.000			Recovery =	104.56%	✓
73) Bromofluorobenzene (SS3)	23.24	174	326602	26.434	ng	0.00
Spiked Amount	25.000			Recovery =	105.72%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	17042m	1.143	ng	
3) Dichlorodifluoromethan...	4.83	85	42928	1.761	ng	98
4) Chloromethane	5.17	50	8686	0.530	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	486	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.79	54	500	N.D.		
8) Bromomethane	6.37	94	2217	0.232	ng	83
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.10	45	358811	37.963	ng	100
11) Acetonitrile	7.38	41	3145945	113.653	ng	E 100
12) Acrolein	7.56	56	32151	4.469	ng	99
13) Acetone	7.82	58	668766	74.990	ng	91
14) Trichlorofluoromethane	8.01	101	19538	0.887	ng	97
15) 2-Propanol (Isopropanol)	8.33	45	109435	3.123	ng	97
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.40	59	192	N.D.		
19) Methylene Chloride	9.24	84	13199	1.102	ng	94
20) 3-Chloro-1-propene (Al...	9.42	41	95	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3231	0.403	ng	95
22) Carbon Disulfide	9.63	76	82120	1.945	ng	98
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.	d	
27) 2-Butanone (MEK)	11.68	72	38169	4.740	ng	96
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.58	87	591	0.055	ng	# 1
30) Ethyl Acetate	12.69	61	2598	0.619	ng	97
31) n-Hexane	12.58	57	87446	4.075	ng	96

643

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
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 Operator : WA
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 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 11:36:54 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	2797	0.148 ng		81
34) Tetrahydrofuran (THF)	13.44	72	6536	0.761 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.80	62	1469	0.085 ng	#	44
38) 1,1,1-Trichloroethane	14.18	97	207	N.D.		
39) Isopropyl Acetate	14.89	61	901	0.109 ng	#	1
40) 1-Butanol	14.88	56	174597	12.027 ng		80
41) Benzene	14.88	78	145119	2.951 ng		99
42) Carbon Tetrachloride	15.11	117	5271	0.336 ng		99
43) Cyclohexane	15.29	84	13764	0.764 ng		97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	15.93	63	193	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.55	88	193	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	680512	11.748 ng		99
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.88	71	40005	3.031 ng		98
52) cis-1,3-Dichloropropene	17.65	75	1122	0.055 ng	#	44
53) 4-Methyl-2-pentanone	17.78	58	10795	0.913 ng		96
54) trans-1,3-Dichloropropene	18.37	75	1033	0.053 ng	#	44
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	1330928	28.905 ng		99
59) 2-Hexanone	19.37	43	22136	0.723 ng		91
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	14711	0.408 ng		87
63) n-Octane	20.28	57	17329	1.557 ng		96
64) Tetrachloroethene	20.48	166	104	N.D.		
65) Chlorobenzene	21.38	112	1617	0.057 ng	#	43
66) Ethylbenzene	21.82	91	253428	4.815 ng		100
67) m- & p-Xylenes	22.04	91	649586	15.256 ng		99
68) Bromoform	22.14	173	109	N.D.		
69) Styrene	22.51	104	77602	2.522 ng		99
70) o-Xylene	22.65	91	287934	6.745 ng		98
71) n-Nonane	22.91	43	116069	4.092 ng		95
72) 1,1,2,2-Tetrachloroethane	22.65	83	792	N.D.		
74) Cumene	23.41	105	27155	0.504 ng		99
75) alpha-Pinene	23.91	93	3605539	130.437 ng <i>see dir</i>		92
76) n-Propylbenzene	24.05	91	117760	1.737 ng		93
77) 3-Ethyltoluene	24.18	105	297854	5.780 ng		99
78) 4-Ethyltoluene	24.23	105	143026	2.864 ng		100
79) 1,3,5-Trimethylbenzene	24.32	105	113971	2.706 ng		99

Data Path : J:\MS13\DATA\2009_08\17\
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 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 11:36:54 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

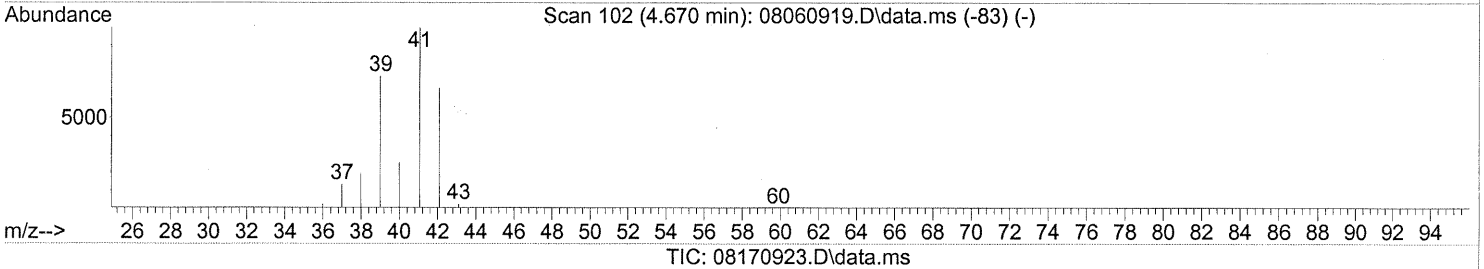
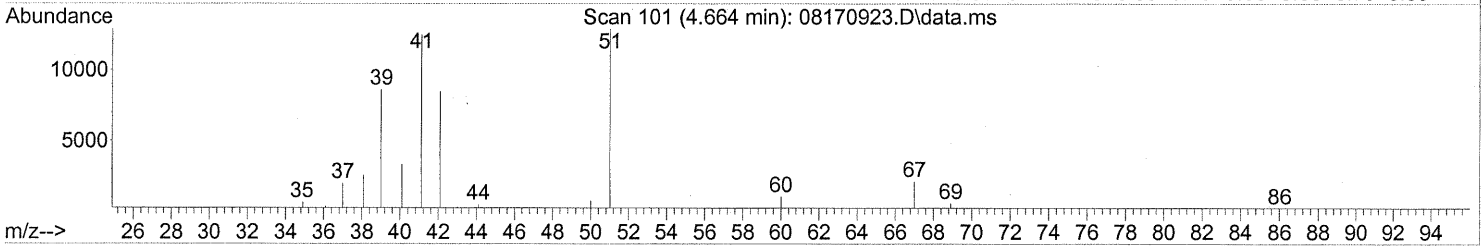
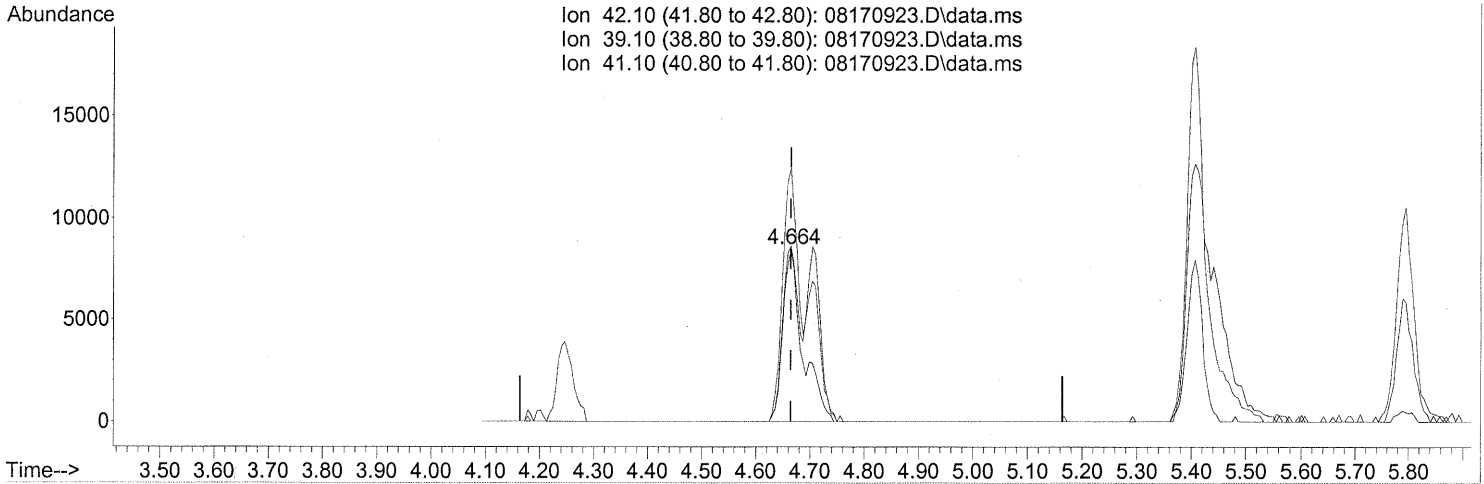
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1090	N.D.		
81) 2-Ethyltoluene	24.56	105	124314	2.392 ng		99
82) 1,2,4-Trimethylbenzene	24.83	105	427932	9.963 ng		89
83) n-Decane	24.94	57	405339	14.515 ng		96
84) Benzyl Chloride	25.03	91	841	N.D.		
85) 1,3-Dichlorobenzene	25.11	146	1232	0.057 ng		92
86) 1,4-Dichlorobenzene	25.11	146	1232	0.053 ng		91
87) sec-Butylbenzene	25.16	105	16457	0.284 ng	#	81
88) 4-Isopropyltoluene (p-...	25.35	119	245702	4.749 ng		97
89) 1,2,3-Trimethylbenzene	25.35	105	125997	2.880 ng		87
90) 1,2-Dichlorobenzene	25.11	146	1232	0.060 ng		90
91) d-Limonene	25.53	68	434153	23.770 ng		90
92) 1,2-Dibromo-3-Chloropr...	26.46	157	1191	0.168 ng	#	1
93) n-Undecane	26.46	57	265468	8.935 ng		90
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	49003	0.840 ng		91
96) n-Dodecane	27.69	57	128801	3.732 ng		99
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	7907	0.414 ng	#	89
99) tert-Butylbenzene	25.27	119	36302	0.873 ng		99
100) n-Butylbenzene	25.86	91	51389	1.074 ng	#	67

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 1.43ng

SM

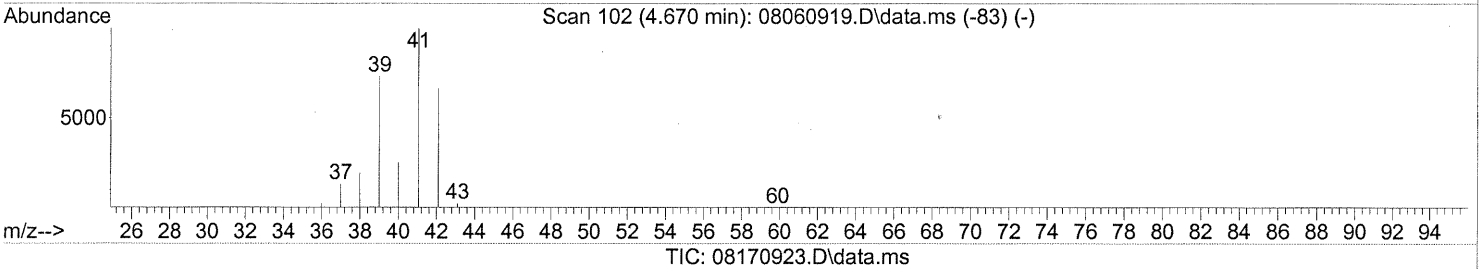
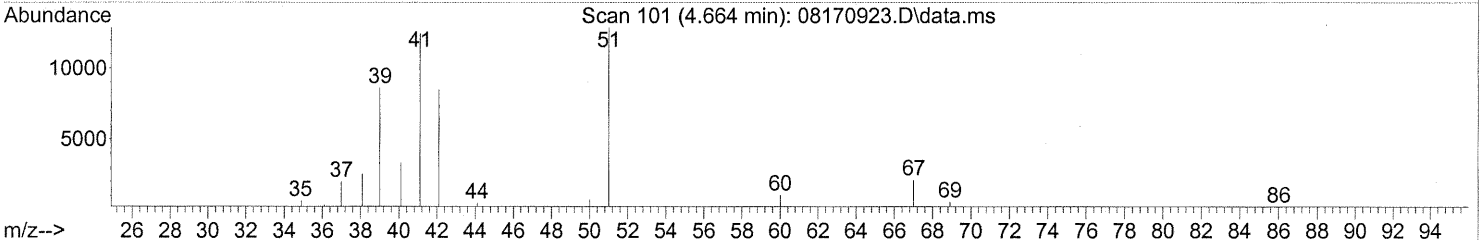
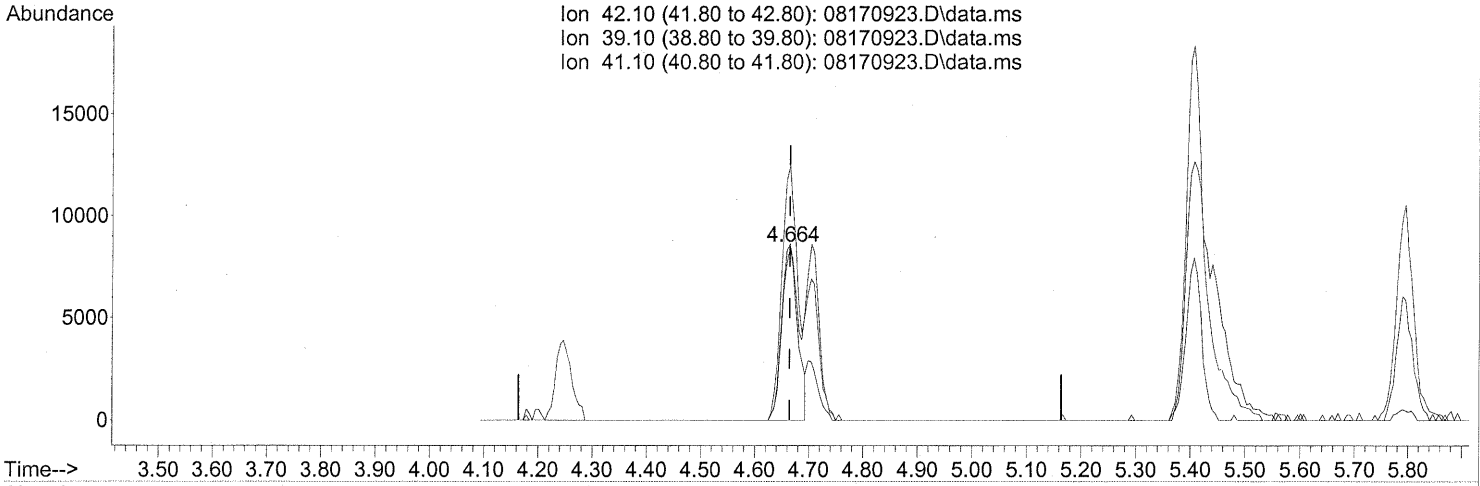
response 21333

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	84.03#
41.10	150.20	124.29#
0.00	0.00	0.00

Quantitation Report (Qedit)

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(2) Propene (T)
 4.664min (+0.000) 1.14ng m
 response 17042

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	105.19
41.10	150.20	155.58
0.00	0.00	0.00

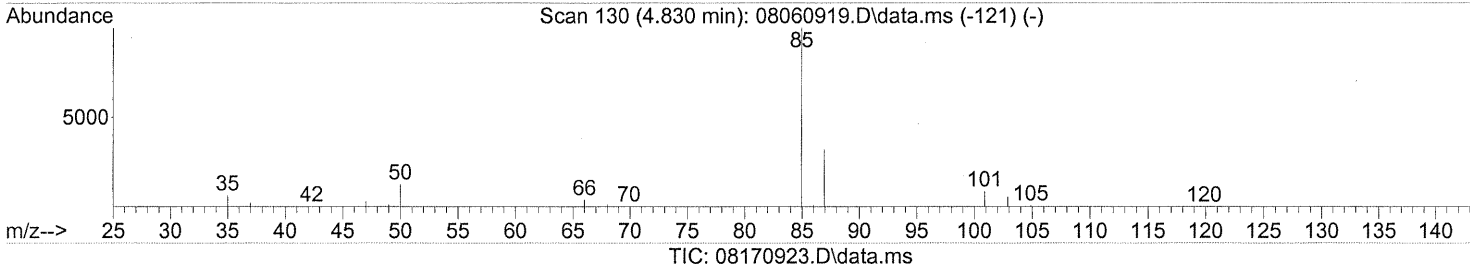
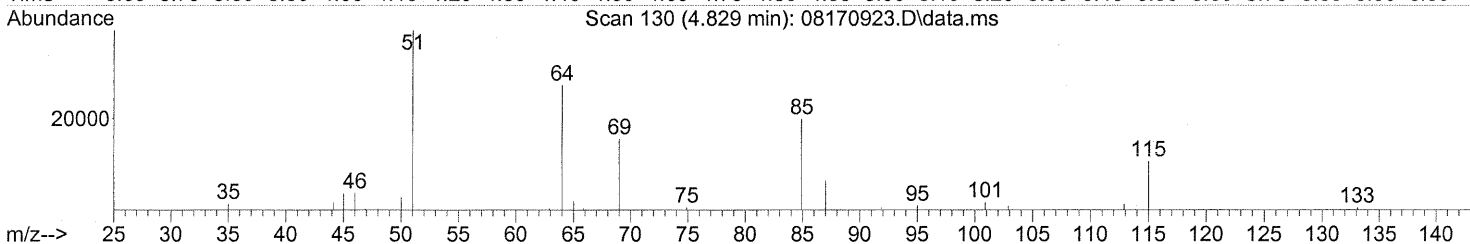
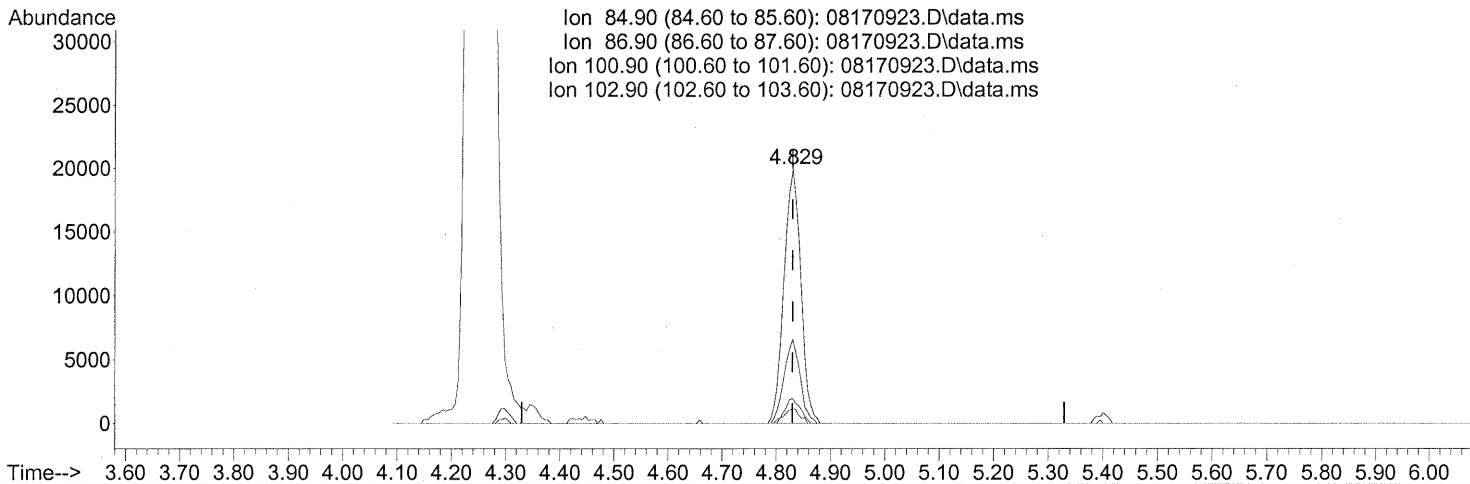
*SN → IC
 LH 8/21/09*

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
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(3) Dichlorodifluoromethane (CFC 12) (T)

4.829min (+0.000) 1.76ng

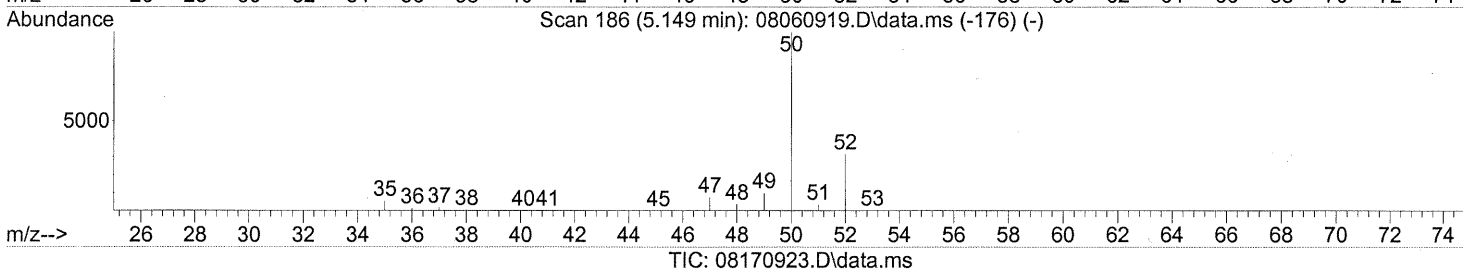
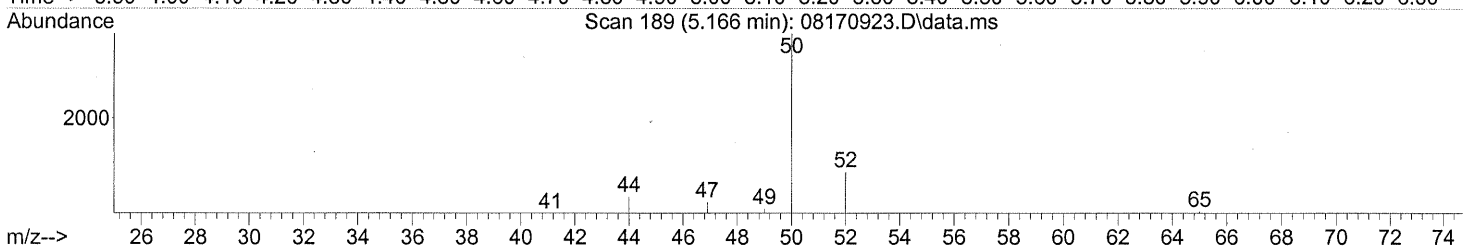
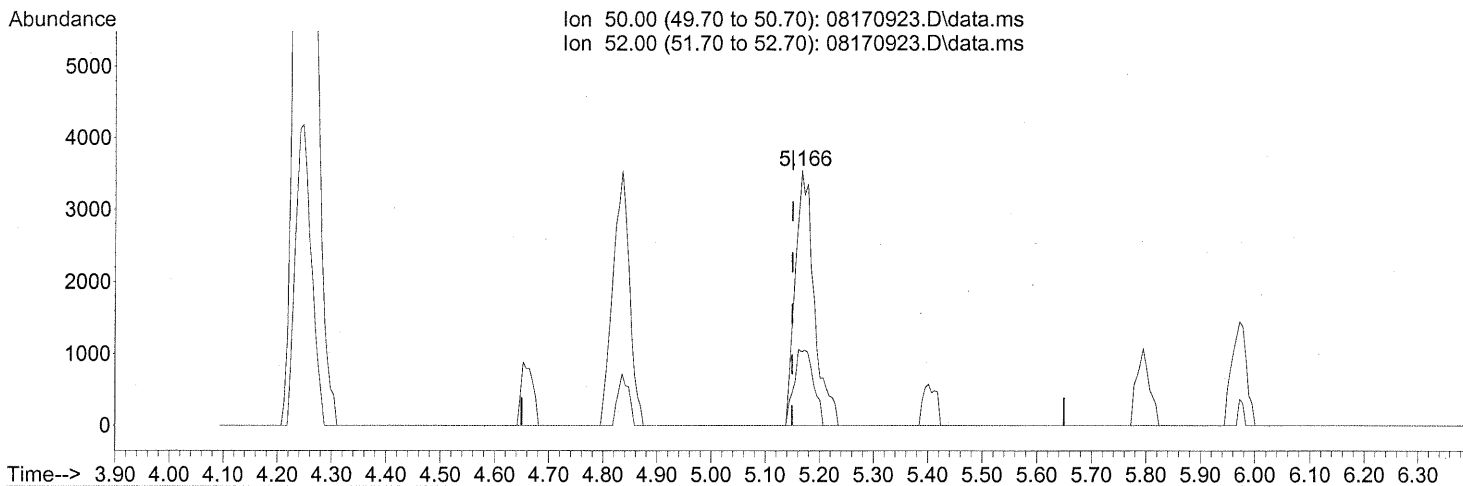
response 42928

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.54
100.90	8.80	9.11
102.90	5.20	5.14

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(4) Chloromethane (T)

5.166min (+0.017) 0.53ng

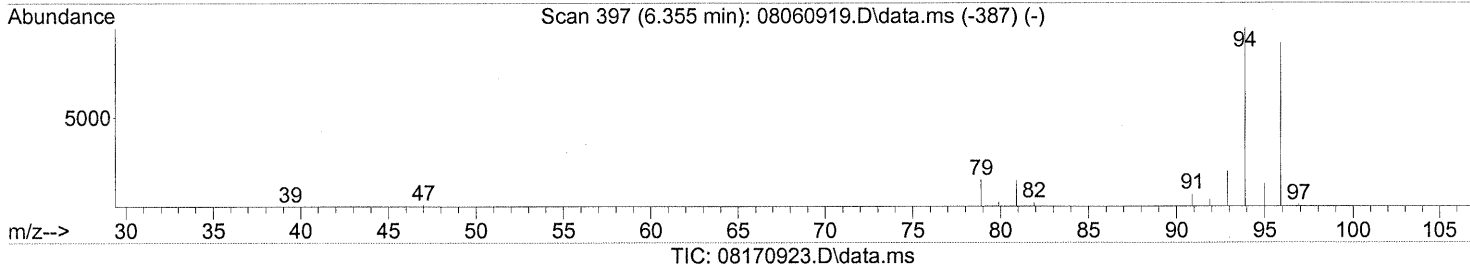
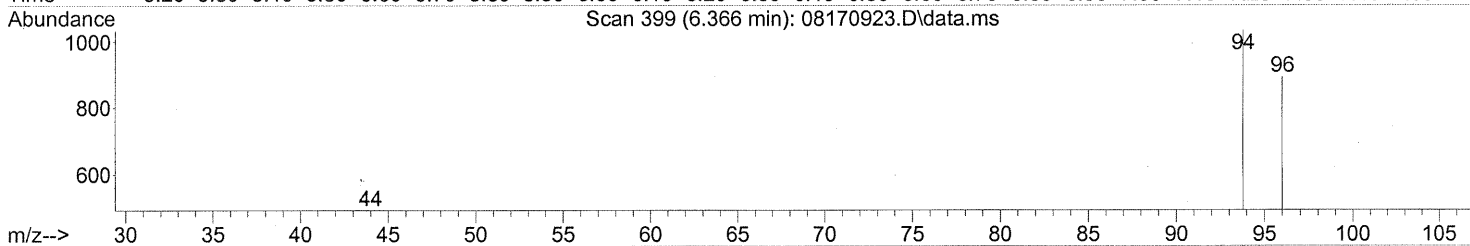
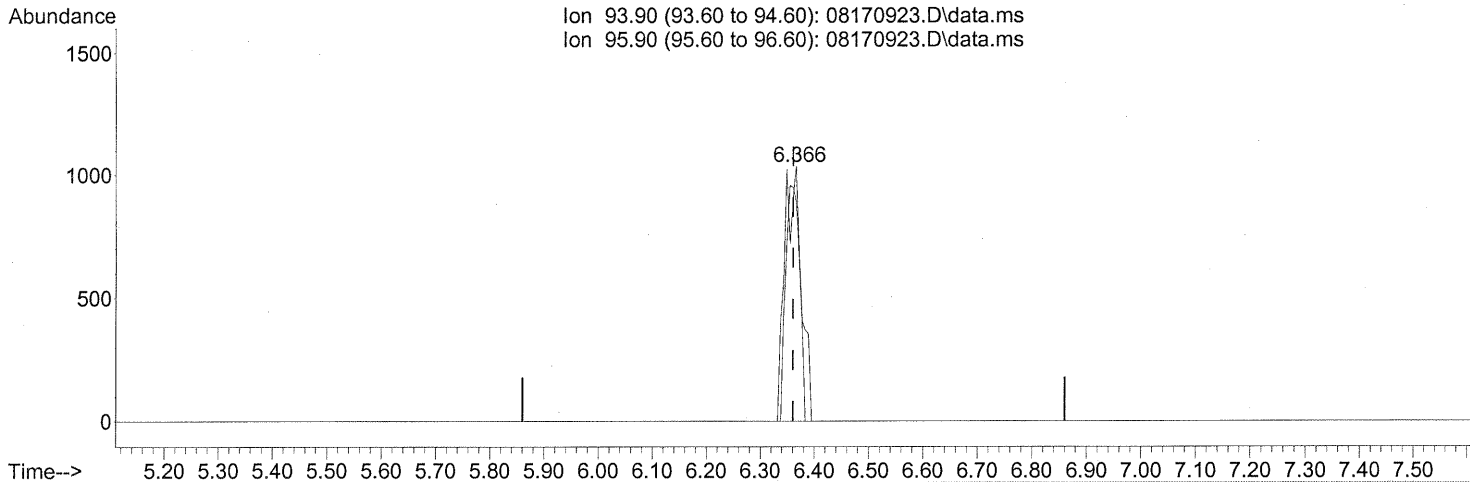
response 8686

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	30.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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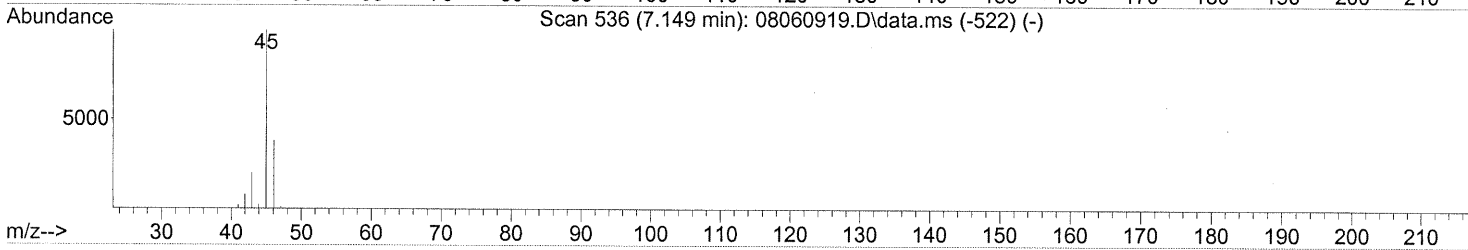
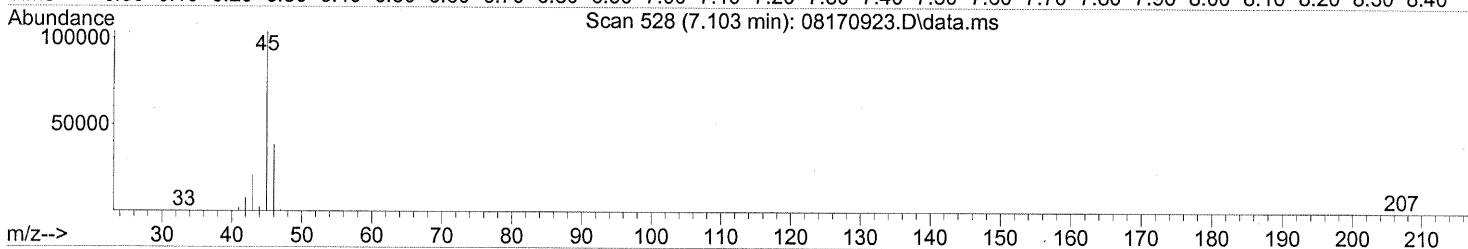
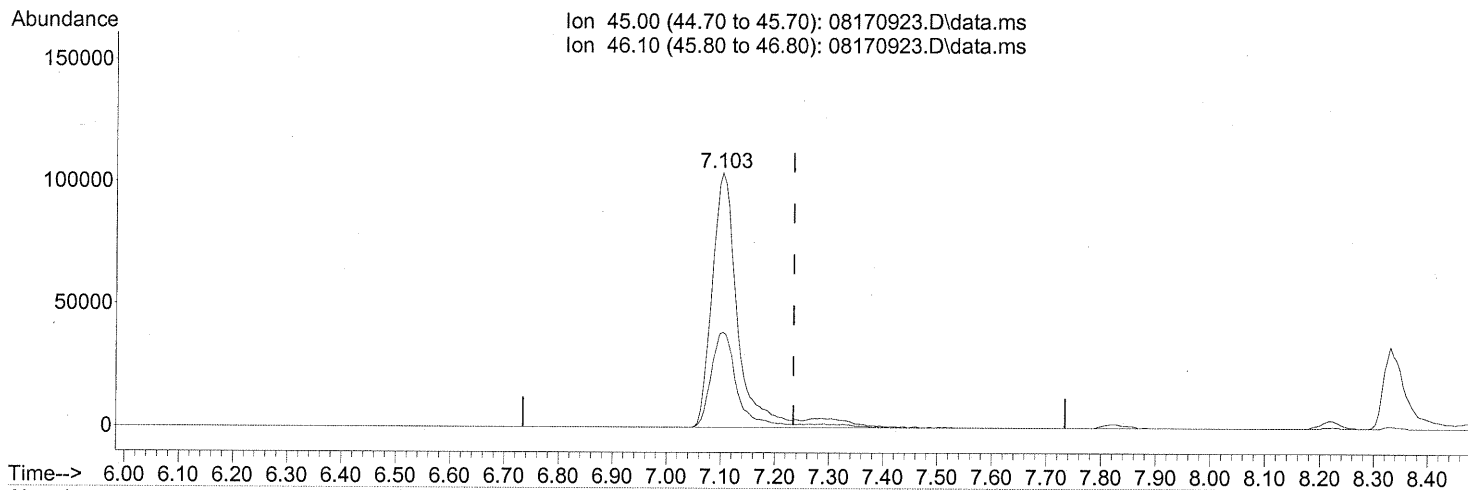
(8) Bromomethane (T)
 6.366min (+0.006) 0.23ng
 response 2217

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	76.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.131) 37.96ng

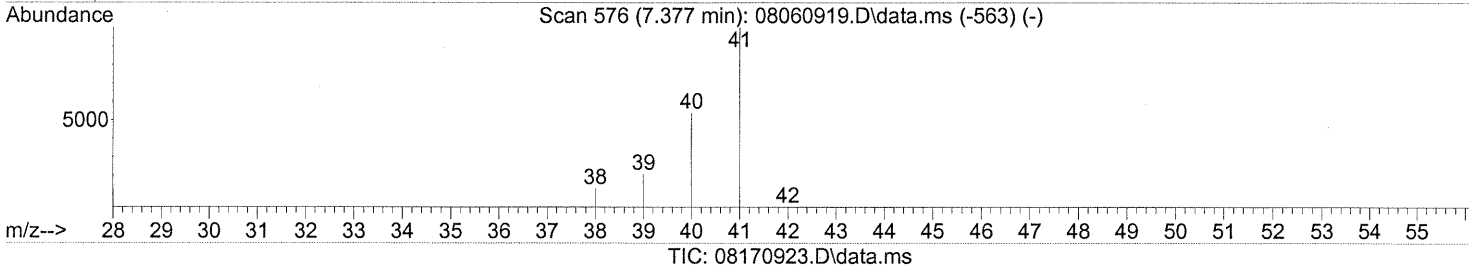
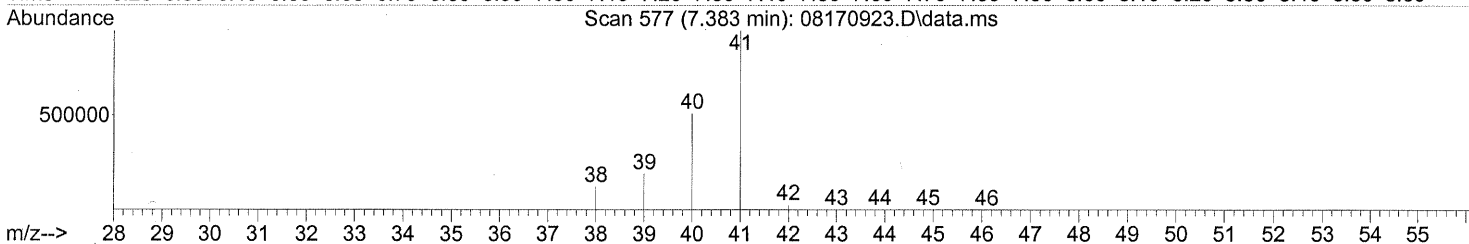
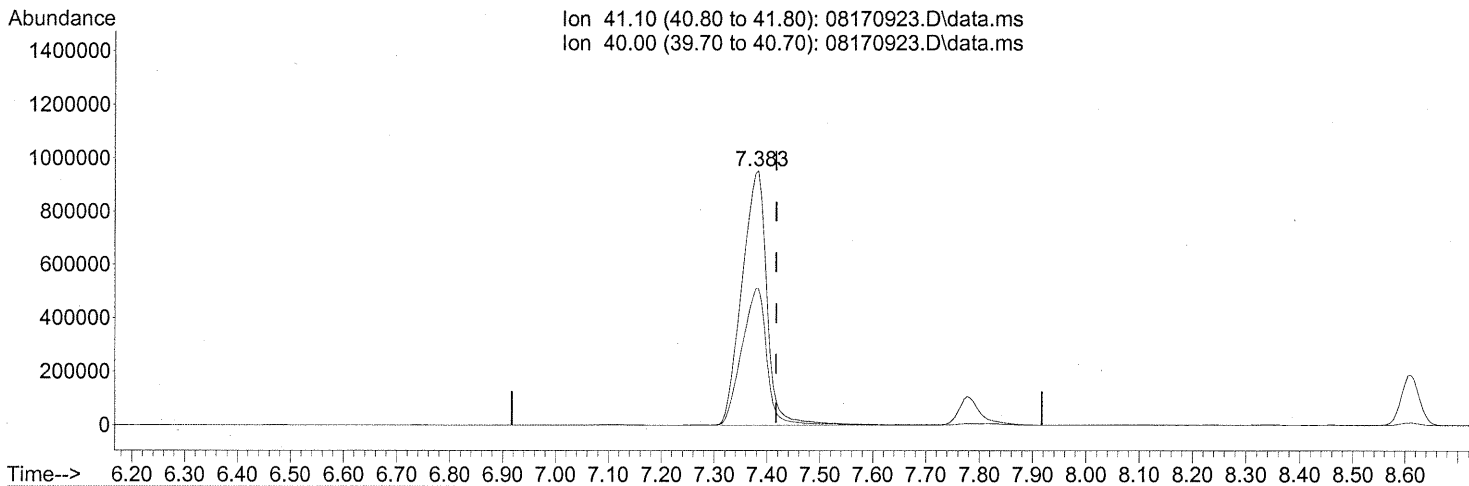
response 358811

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.383min (-0.034) 113.65ng *E*

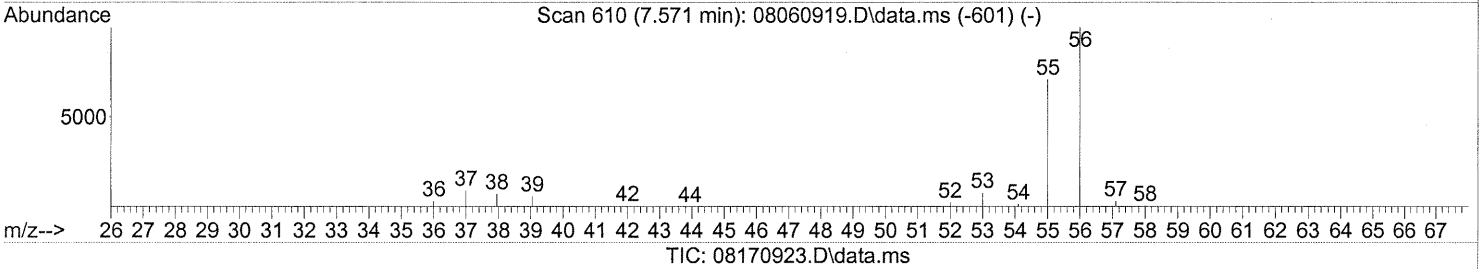
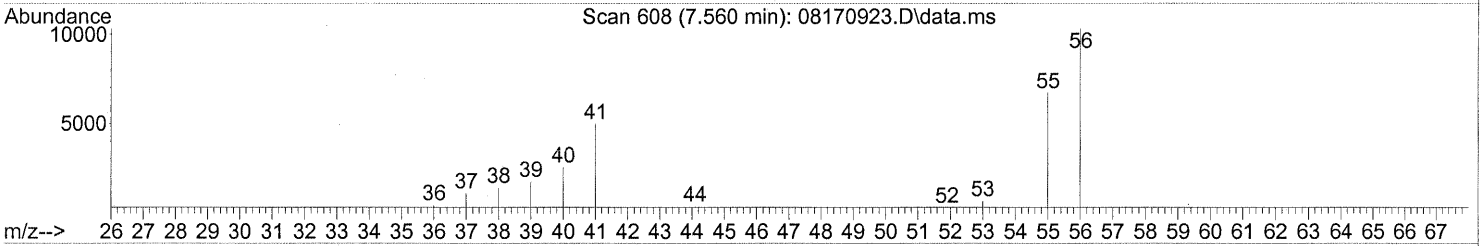
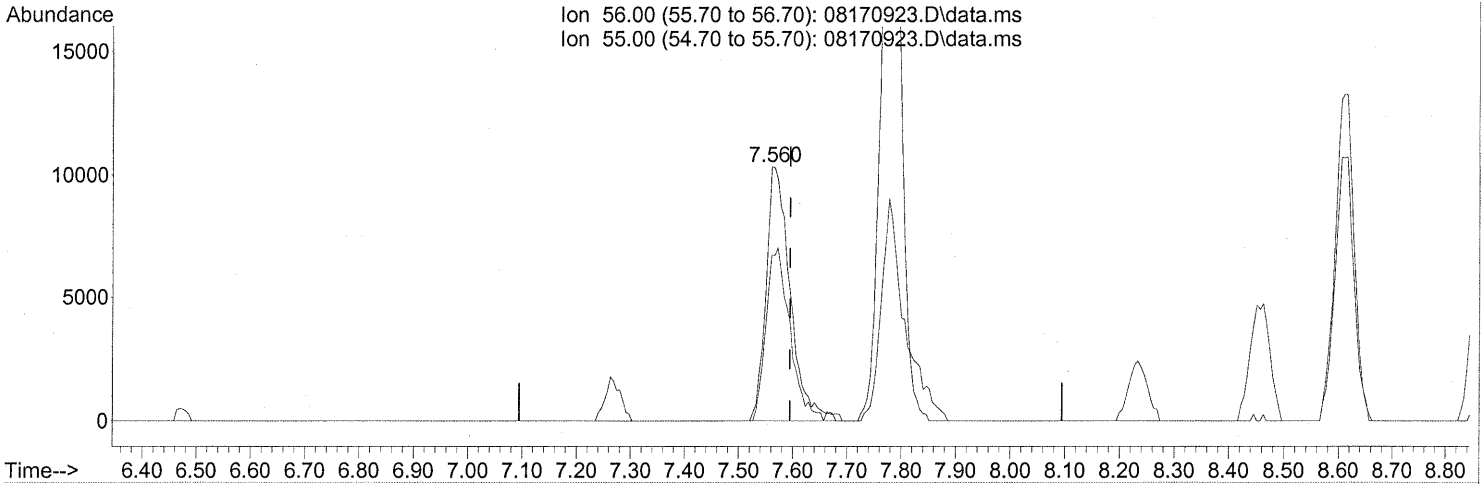
response 3145945

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.560min (-0.034) 4.47ng

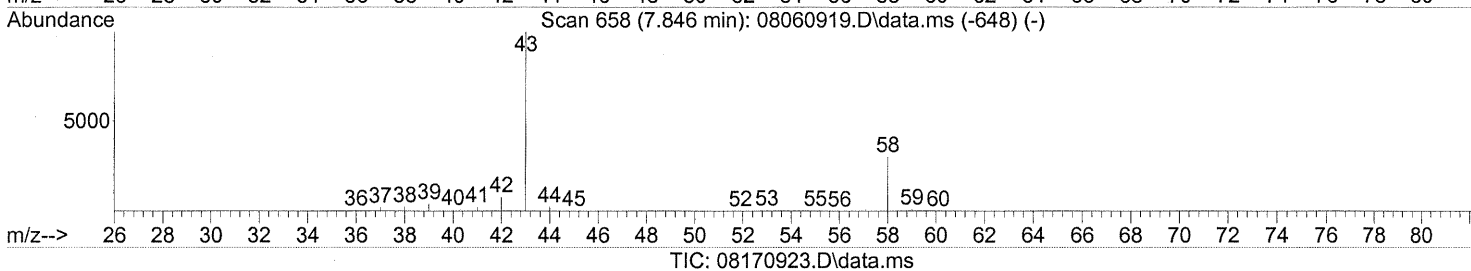
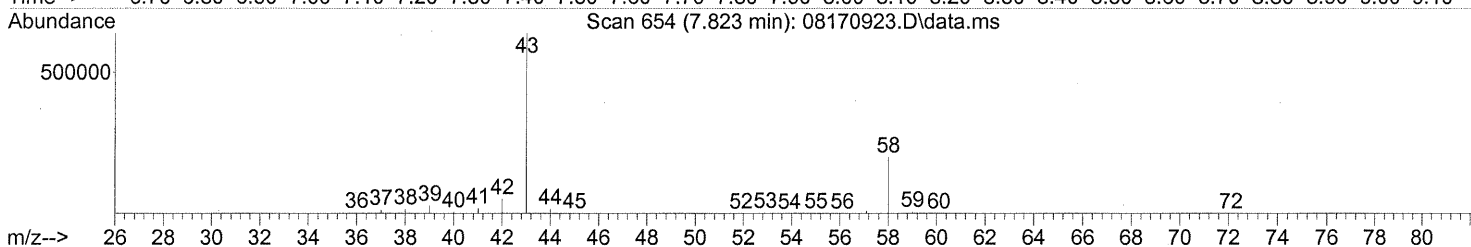
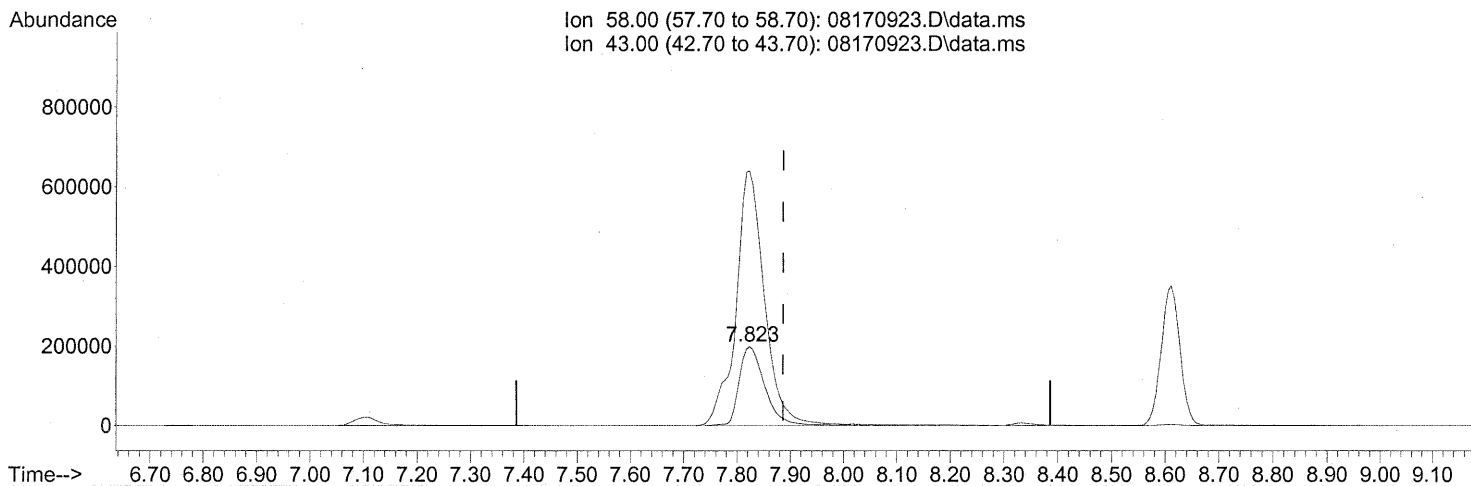
response 32151

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	67.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



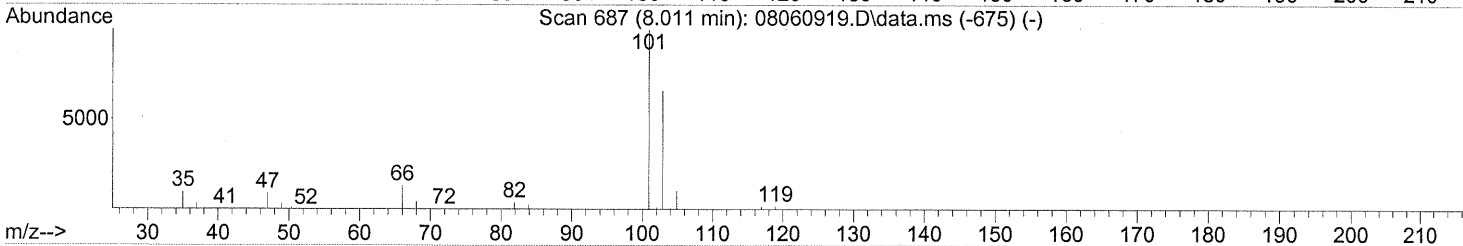
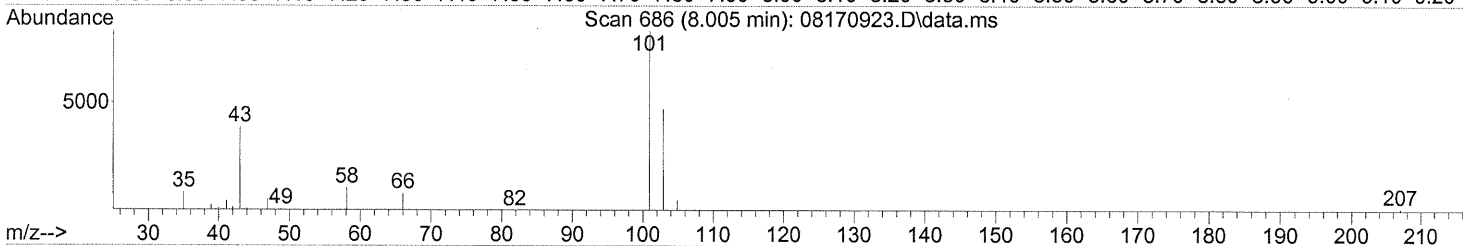
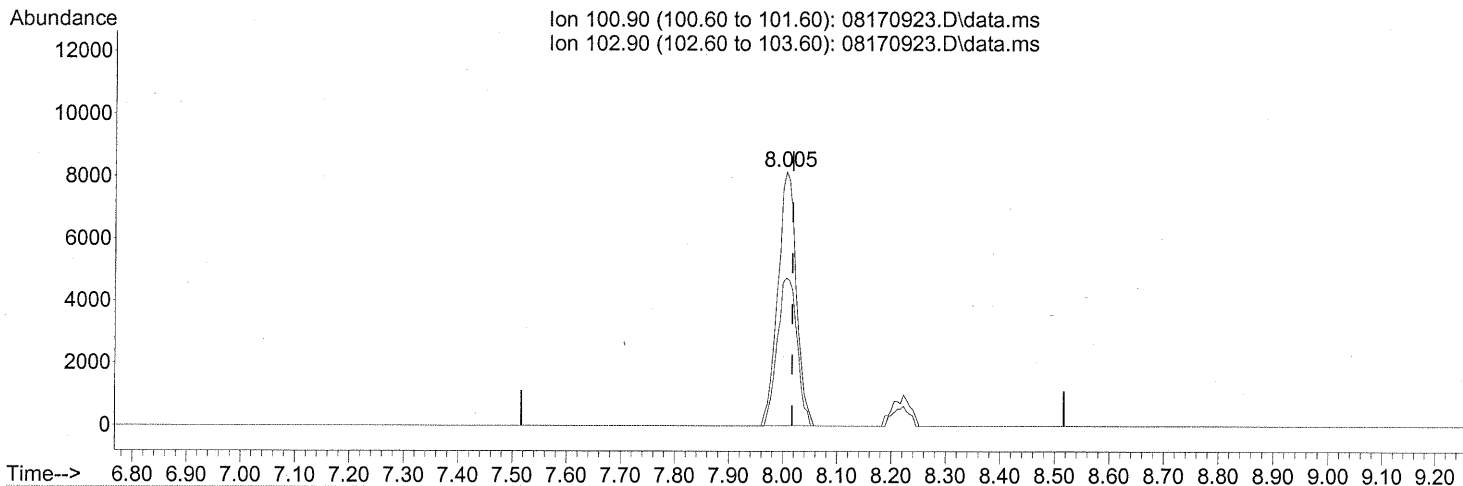
(13) Acetone (T)
 7.823min (-0.063) 74.99ng
 response 668766

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	359.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170923.D
Acq On : 17 Aug 2009 20:47
Operator : WA
Sample : P0902721-016 (1000mL)
Misc : Env. Health & Engineering 100205
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08170923.D\data.ms

(14) Trichlorofluoromethane (T)

8.005min (-0.011) 0.89ng

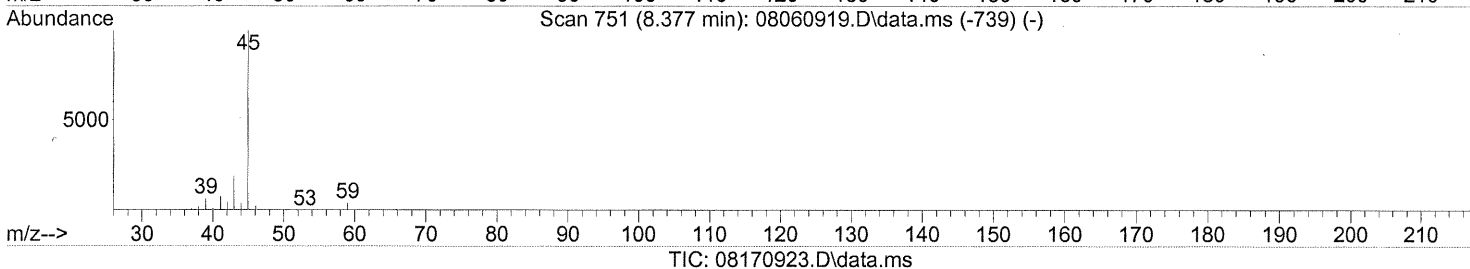
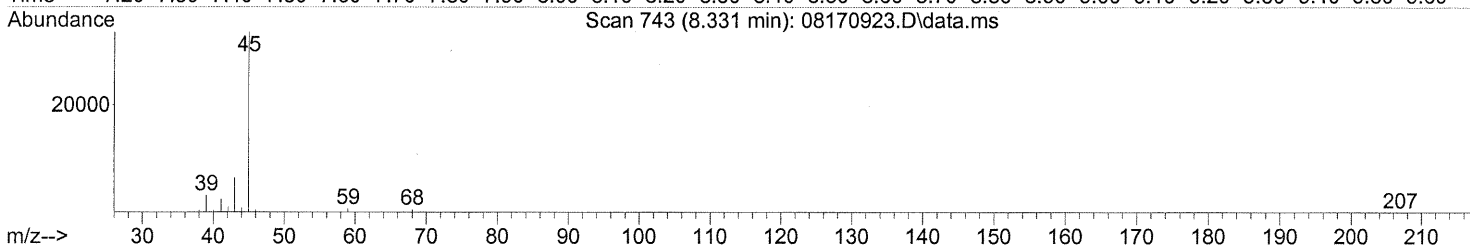
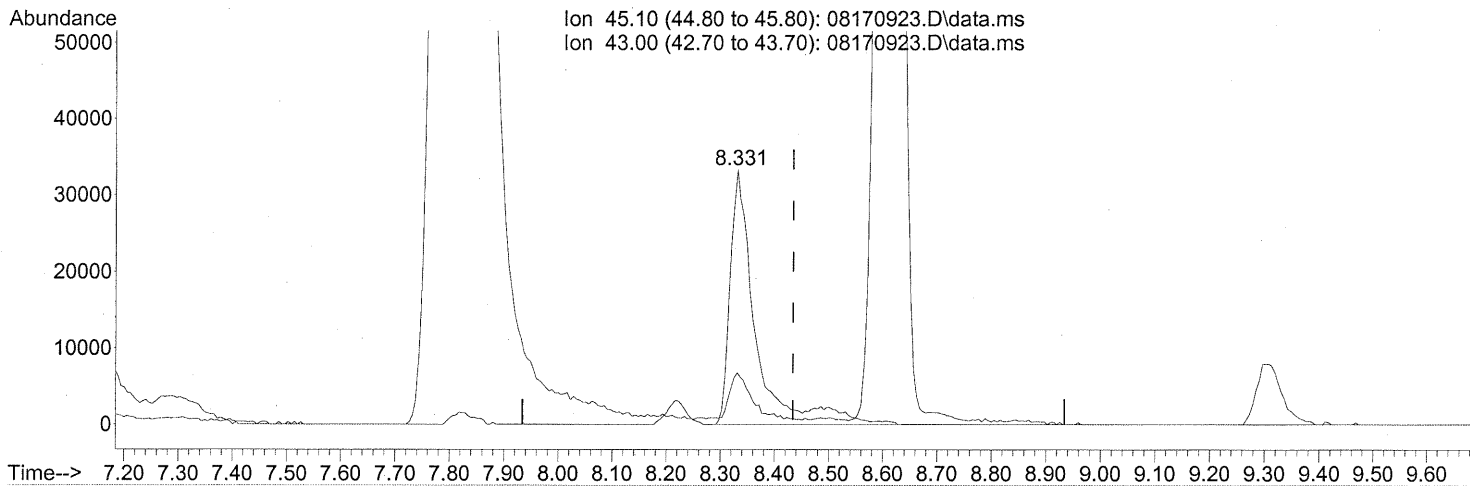
response 19538

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	61.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.331min (-0.103) 3.12ng

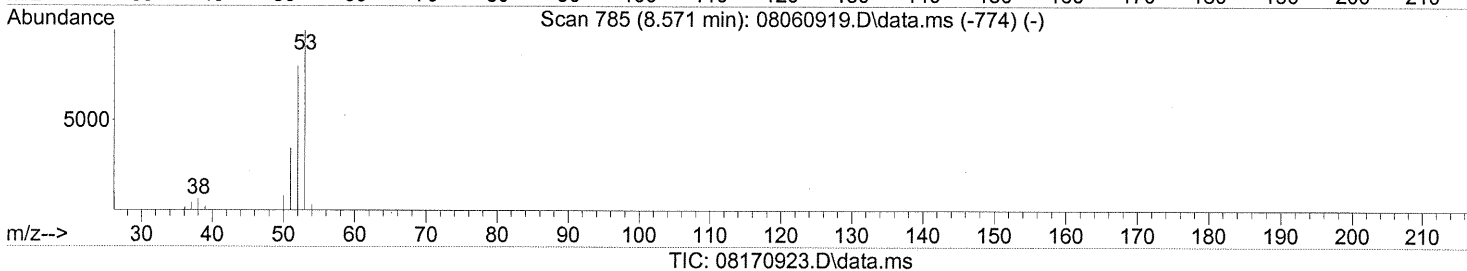
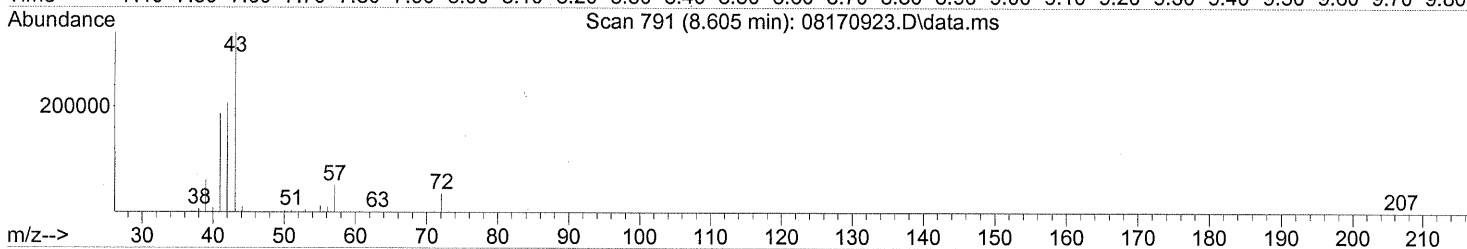
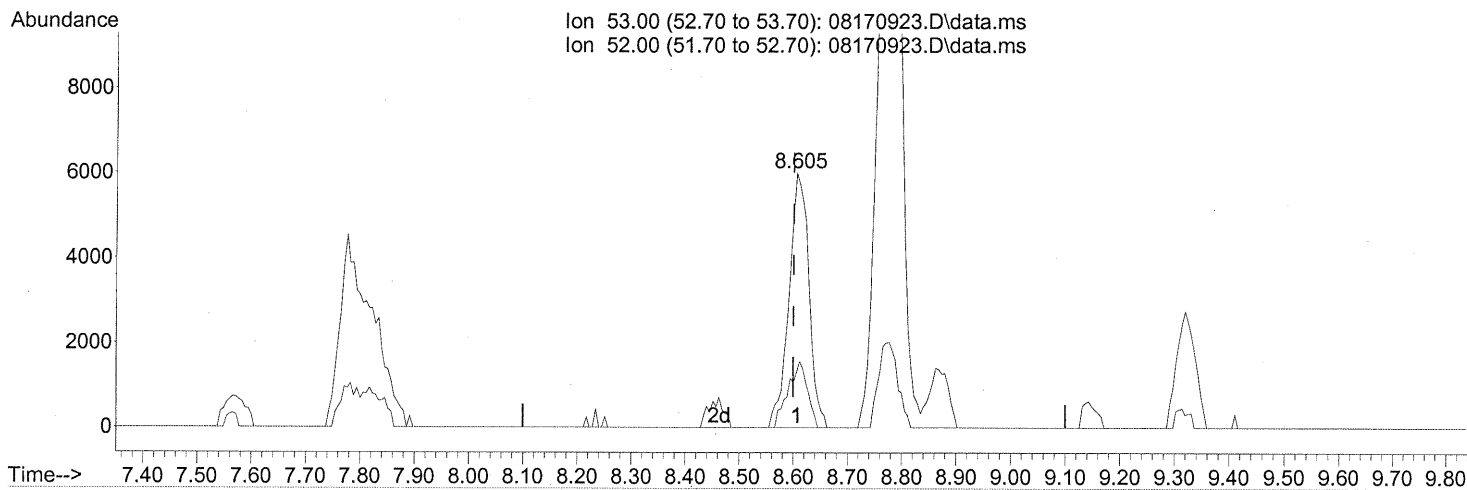
response 109435

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	17.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)

8.605min (+0.006) 0.96ng

response 15394

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	25.16#
0.00	0.00	0.00
0.00	0.00	0.00

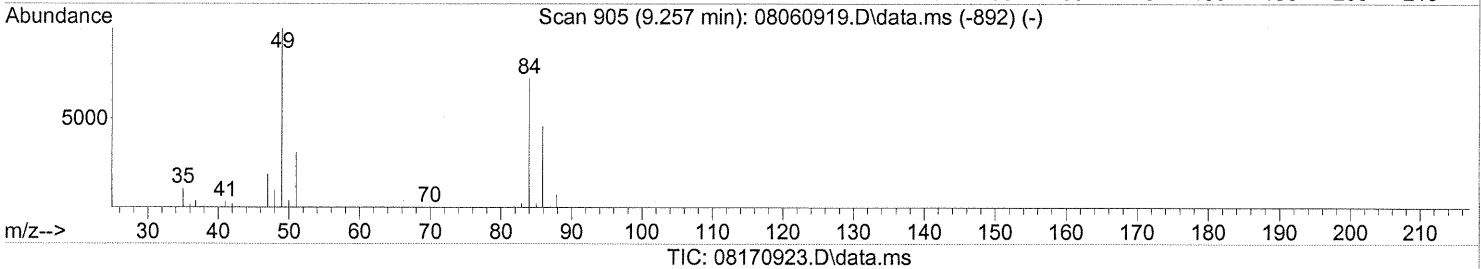
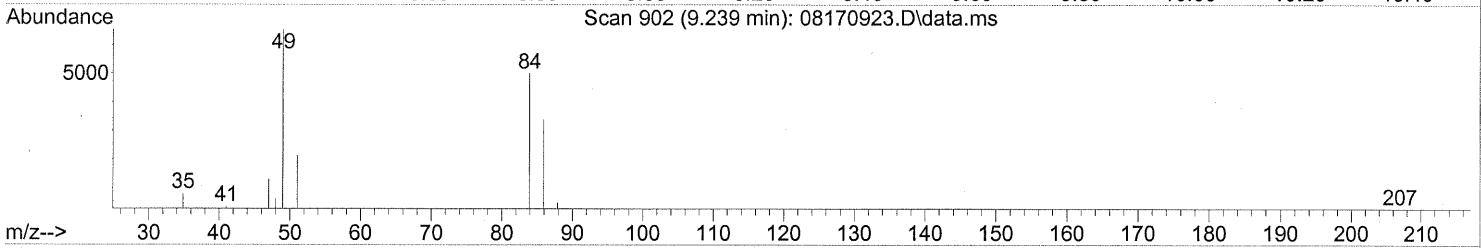
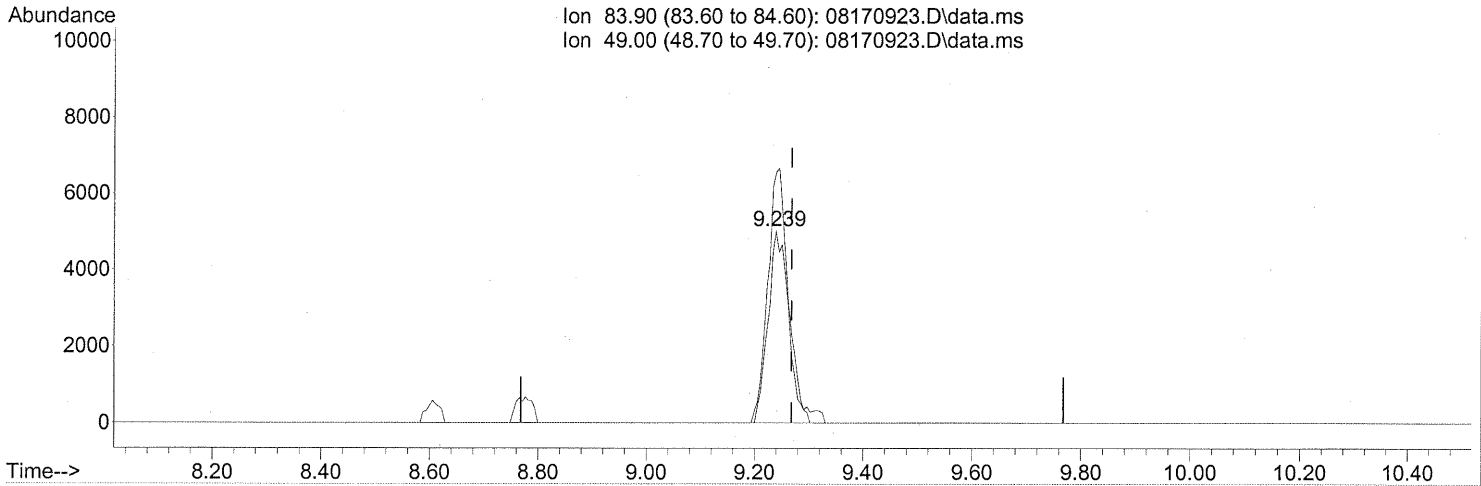
FP LH 8/21/09

Handwritten signature/initials

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170923.D
Acq On : 17 Aug 2009 20:47
Operator : WA
Sample : P0902721-016 (1000mL)
Misc : Env. Health & Engineering 100205
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.239min (-0.029) 1.10ng

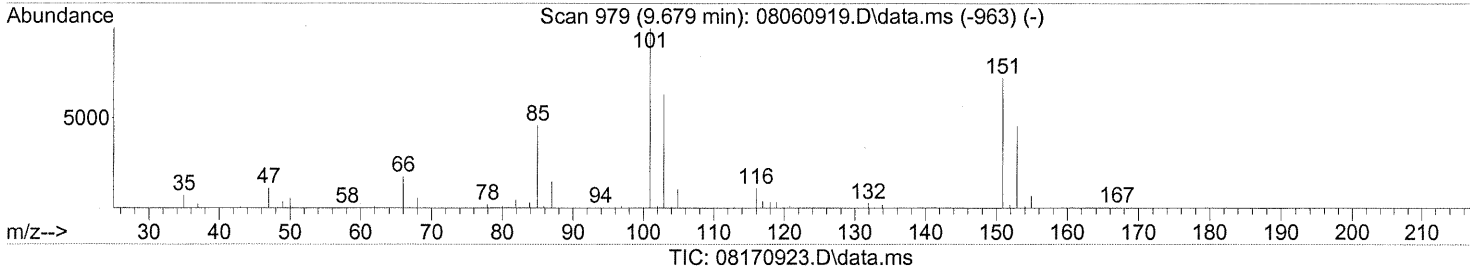
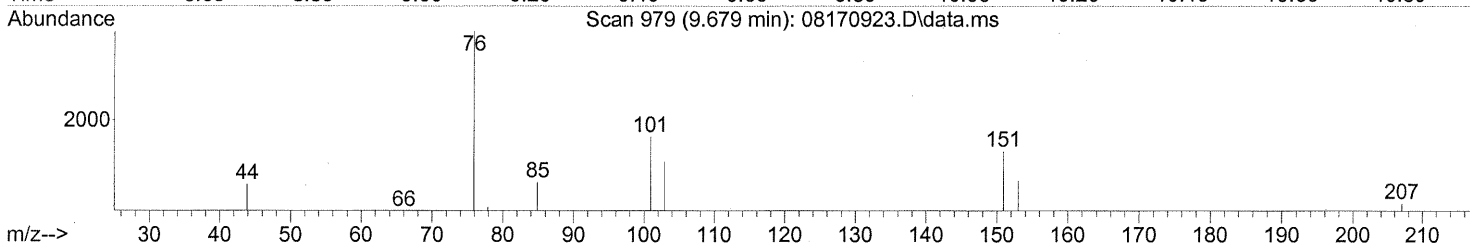
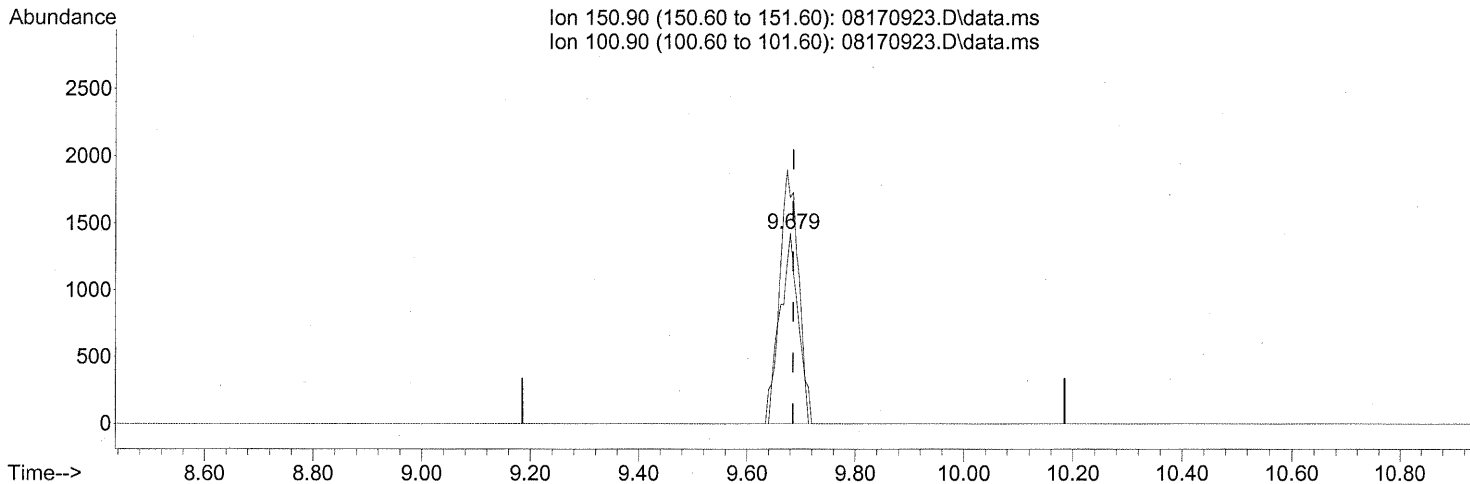
response 13199

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	136.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170923.D
Acq On : 17 Aug 2009 20:47
Operator : WA
Sample : P0902721-016 (1000mL)
Misc : Env. Health & Engineering 100205
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.40ng

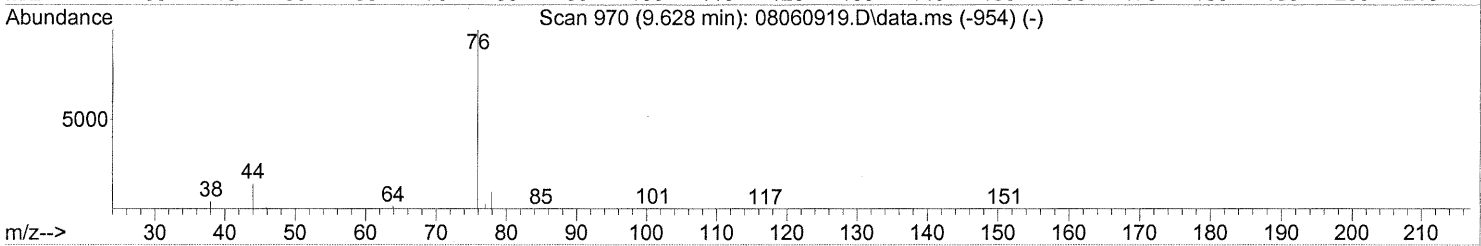
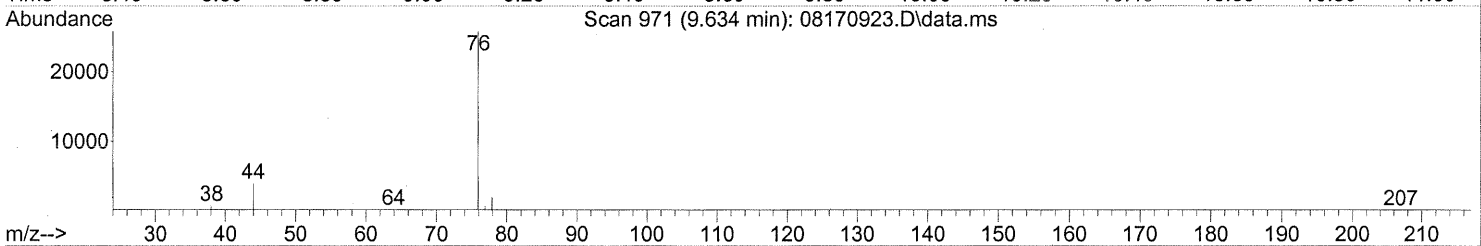
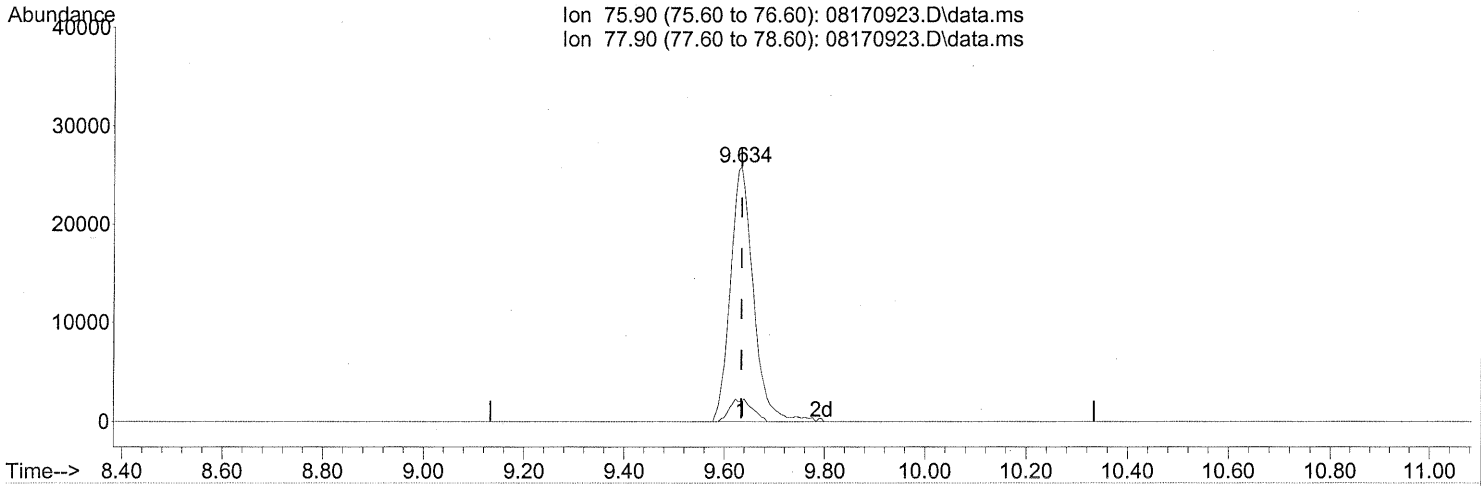
response 3231

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	144.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170923.D\data.ms

(22) Carbon Disulfide (T)

9.634min (0.000) 1.94ng

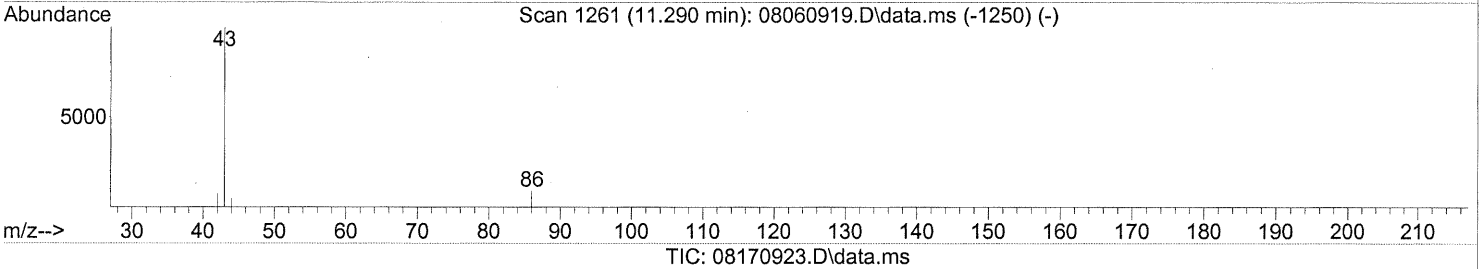
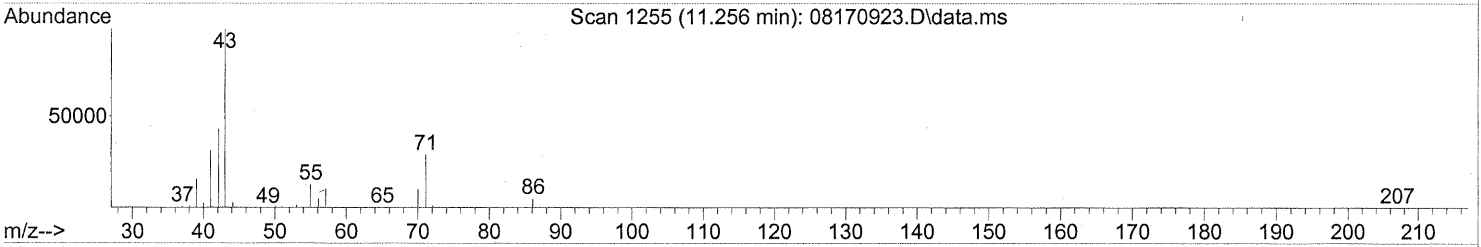
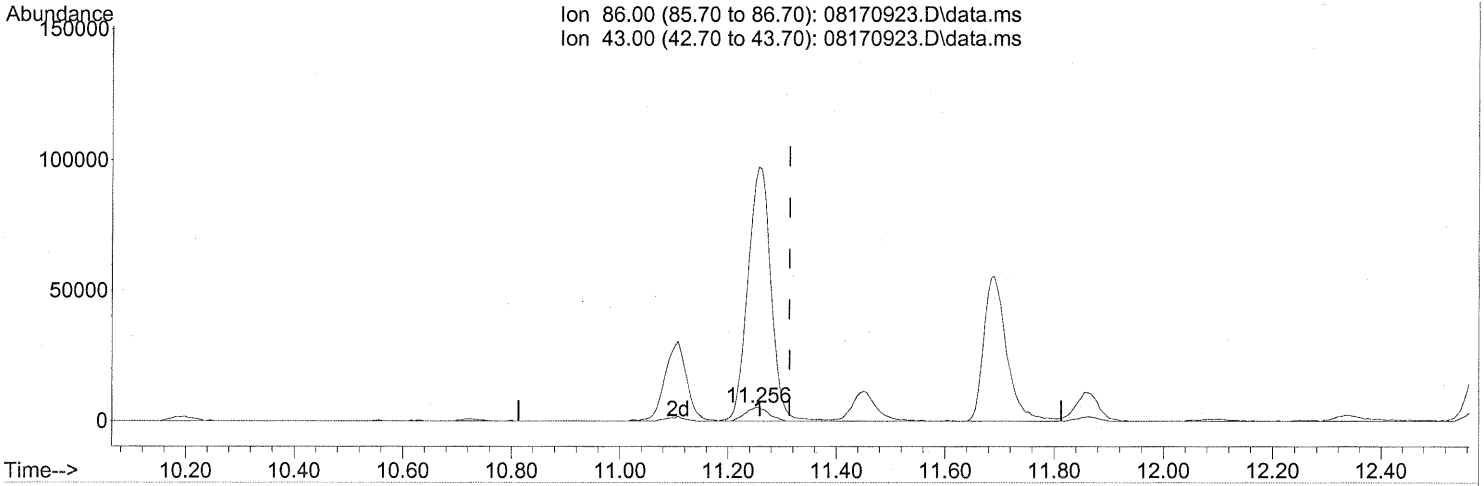
response 82120

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170923.D
Acq On : 17 Aug 2009 20:47
Operator : WA
Sample : P0902721-016 (1000mL)
Misc : Env. Health & Engineering 100205
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(26) Vinyl Acetate (T)
11.256min (-0.057) 8.39ng
response 15229

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1894.09#
0.00	0.00	0.00
0.00	0.00	0.00

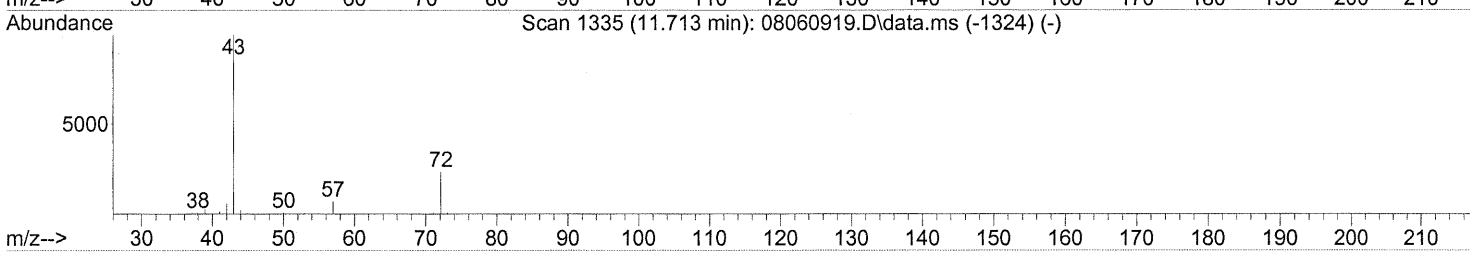
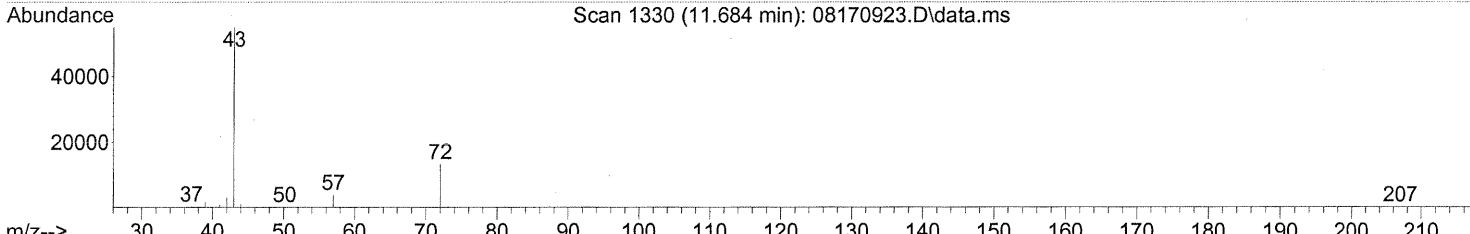
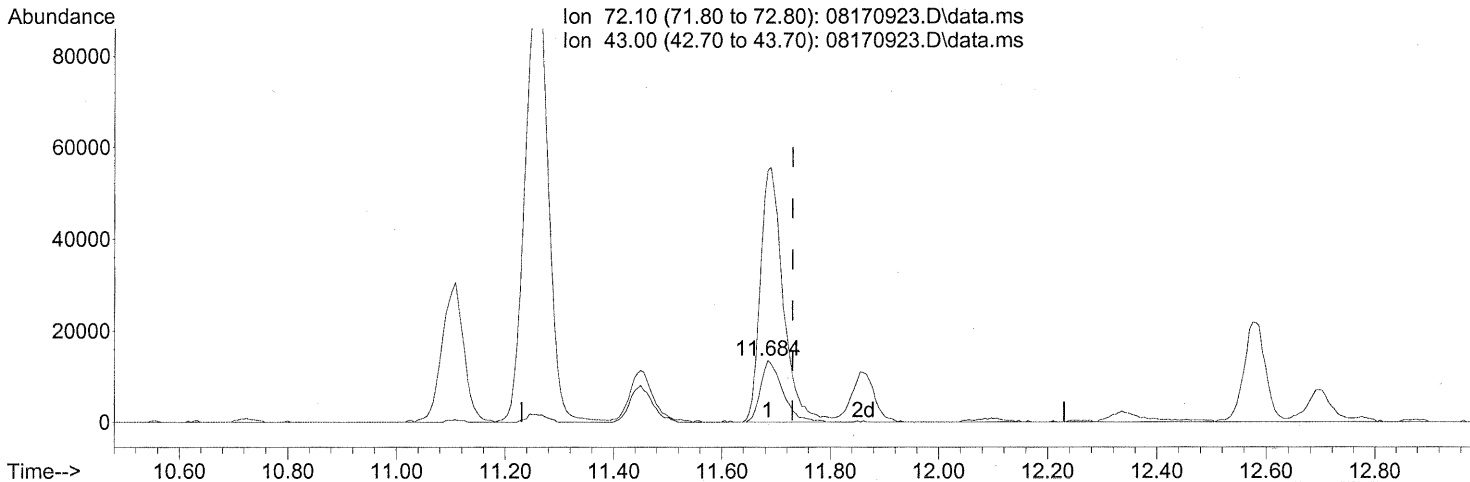
FP WH 8/21/09

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170923.D\data.ms

(27) 2-Butanone (MEK) (T)

11.684min (-0.046) 4.74ng

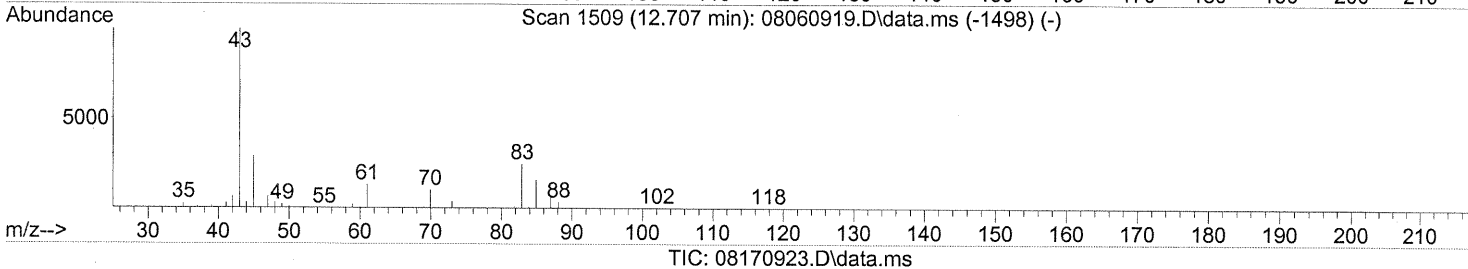
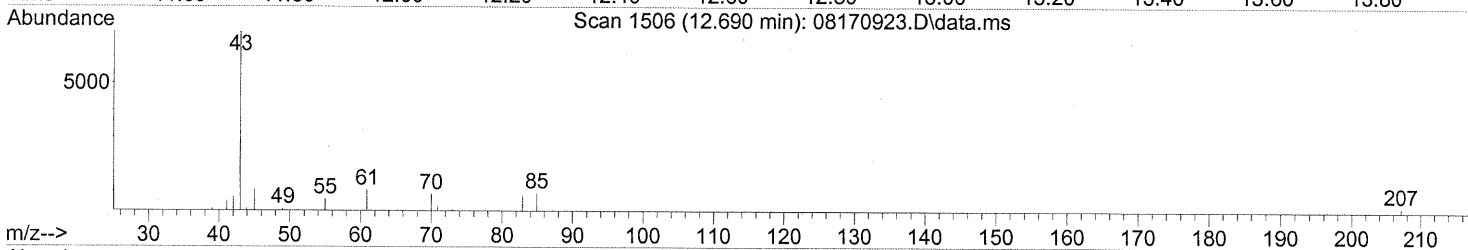
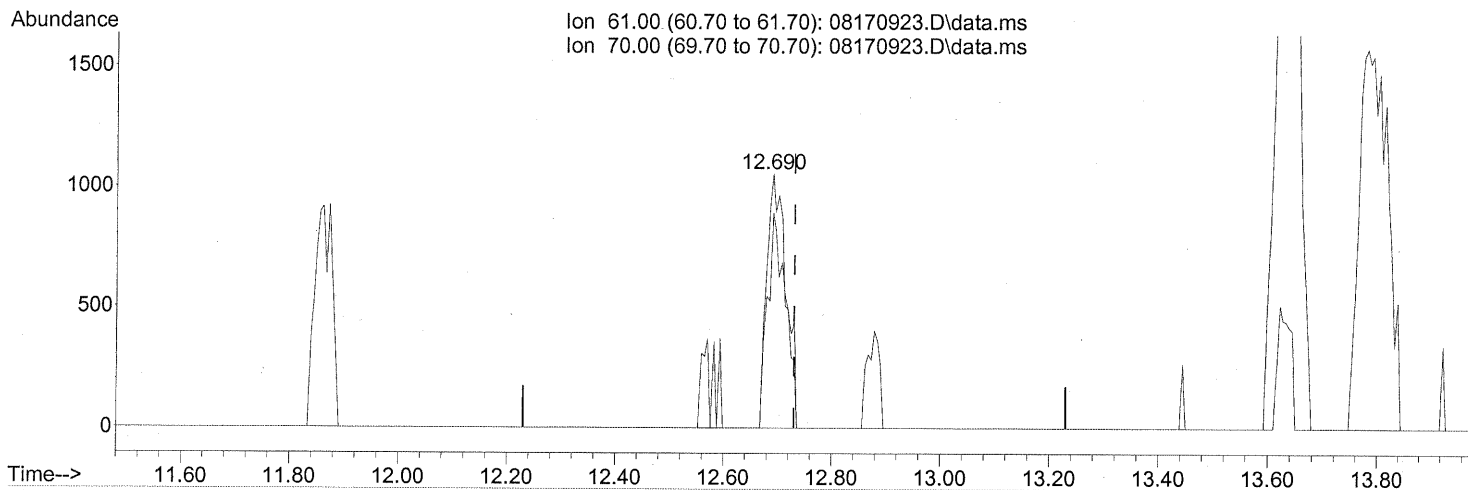
response 38169

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	426.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



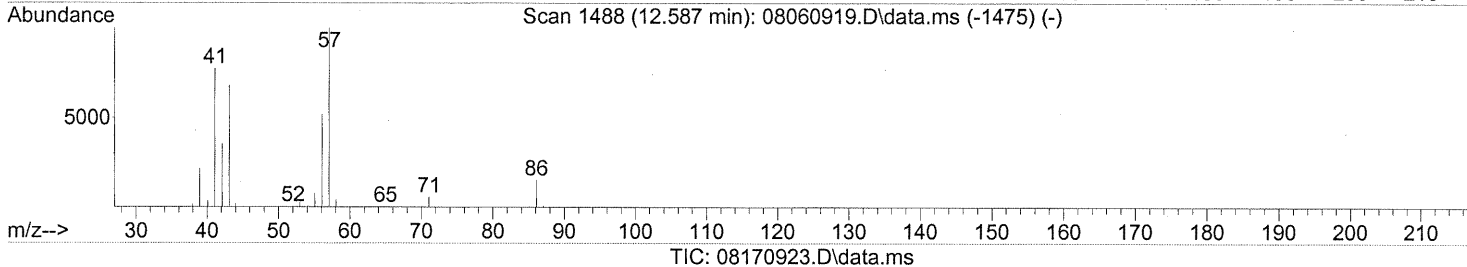
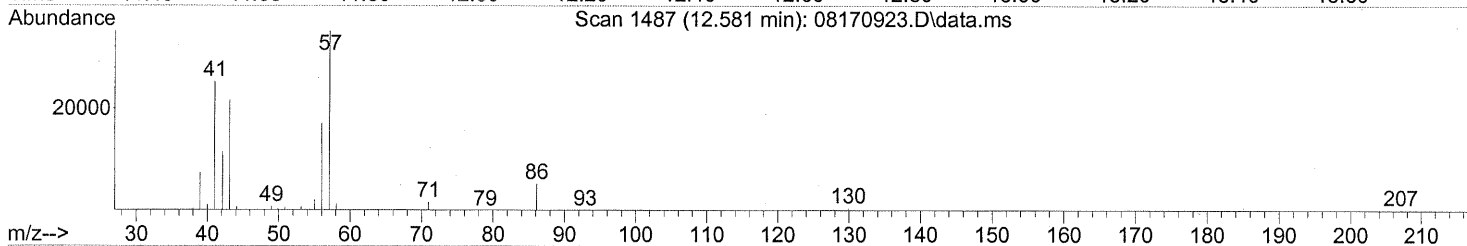
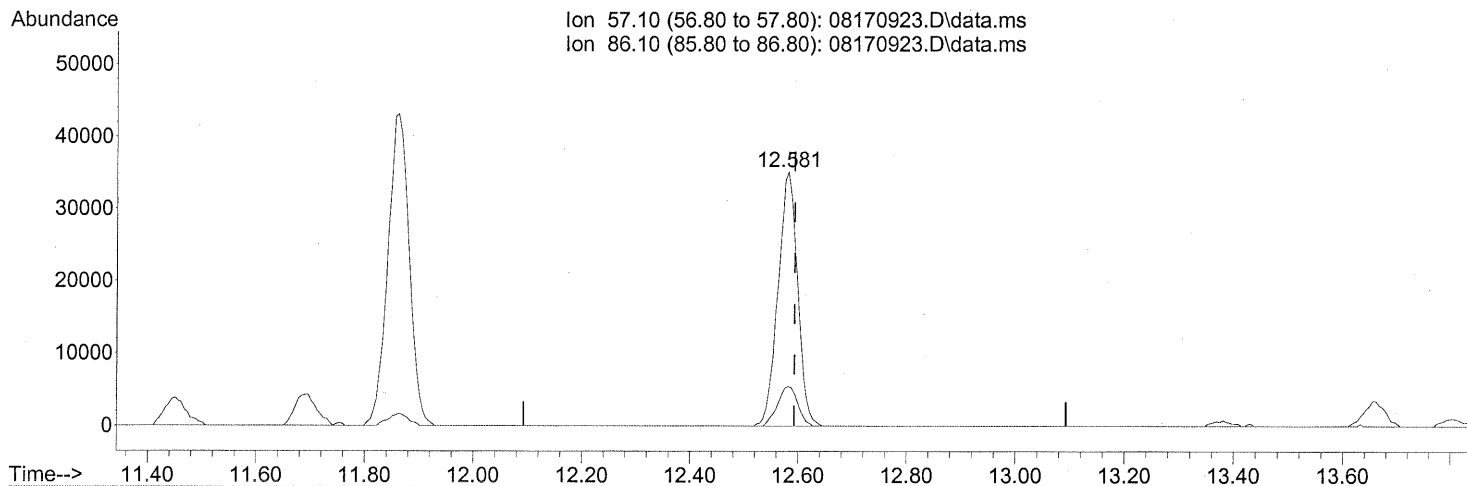
(30) Ethyl Acetate (T)
 12.690min (-0.040) 0.62ng
 response 2598

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	79.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
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Quant Time: Aug 18 06:48:39 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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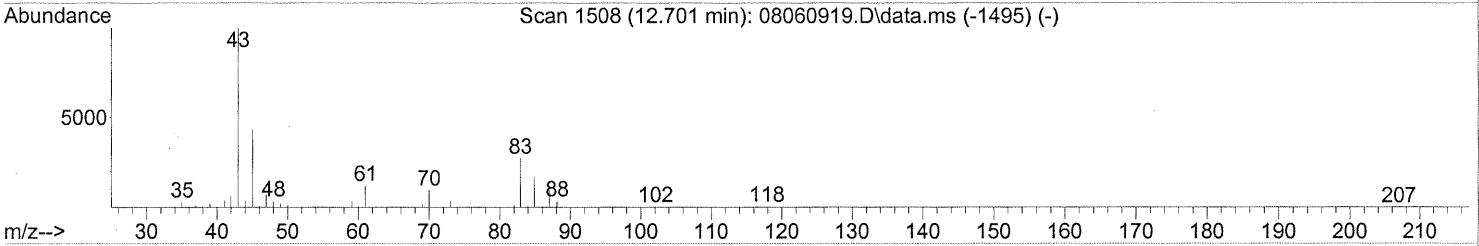
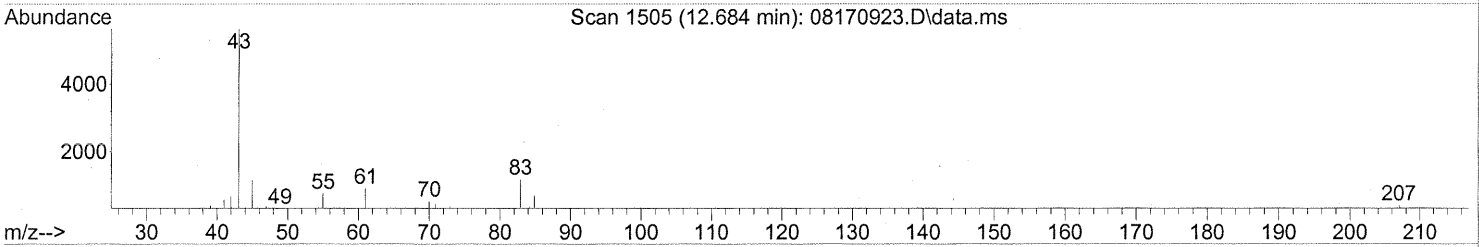
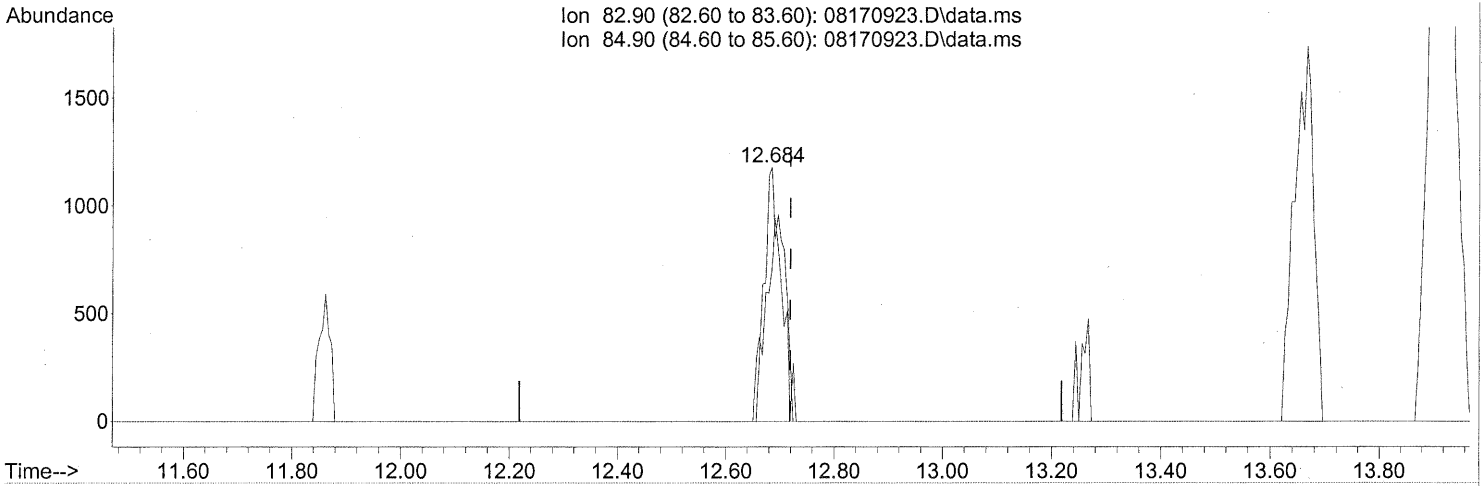
(31) n-Hexane (T)
 12.581min (-0.011) 4.08ng
 response 87446

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
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 Response via : Initial Calibration



TIC: 08170923.D\data.ms

(32) Chloroform (T)

12.684min (-0.034) 0.15ng

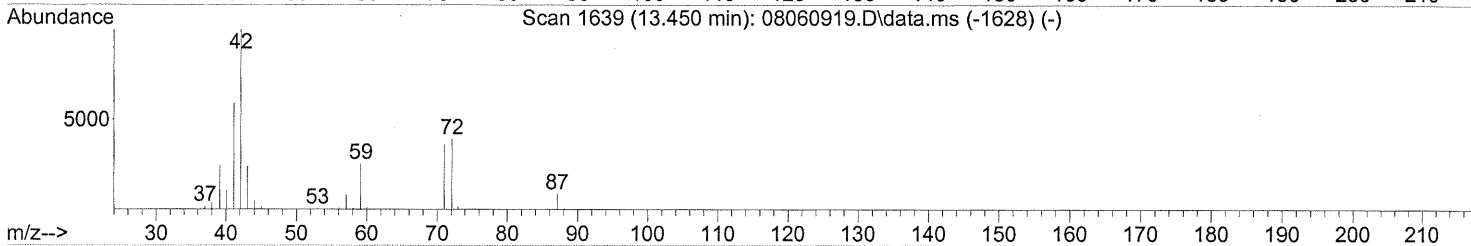
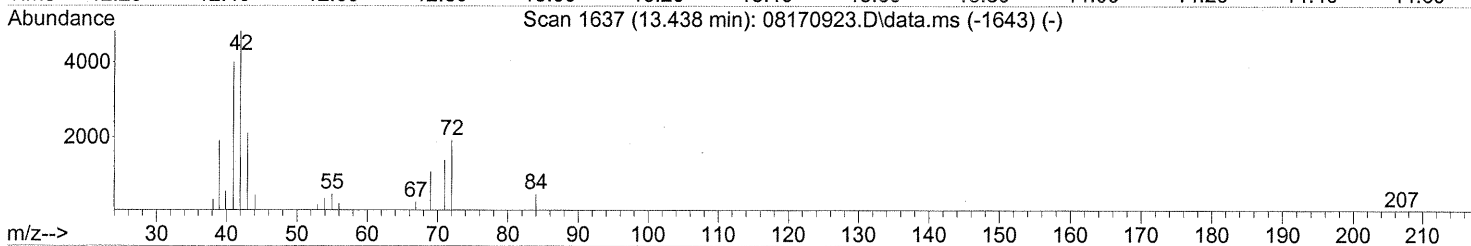
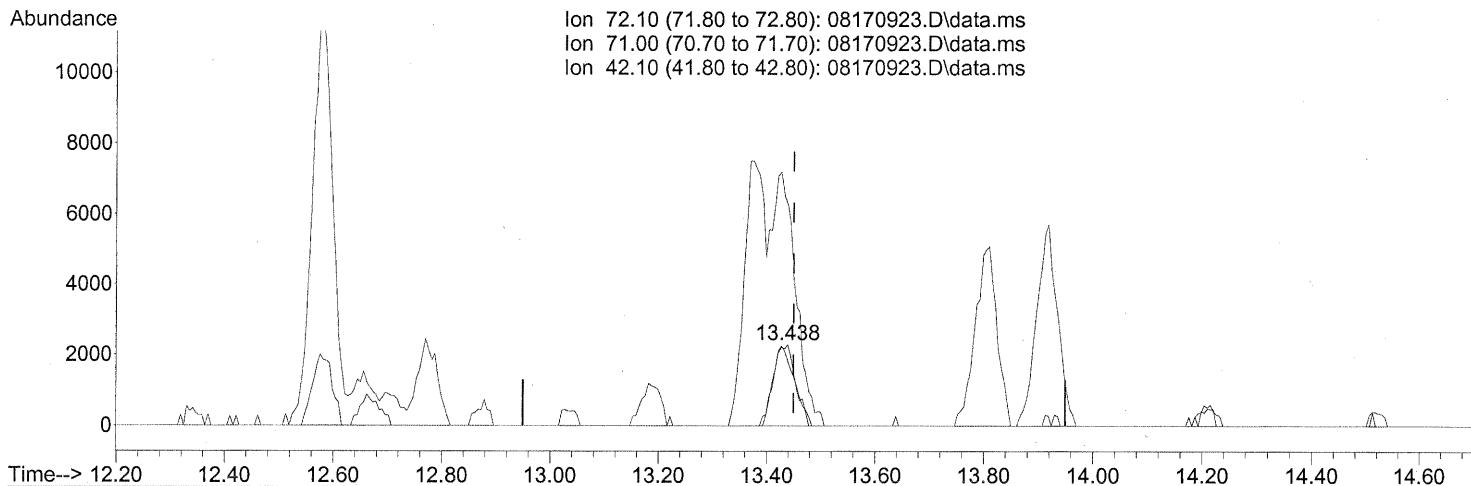
response 2797

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	79.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
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Quant Time: Aug 18 06:48:39 2009
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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



TIC: 08170923.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.438min (-0.011) 0.76ng

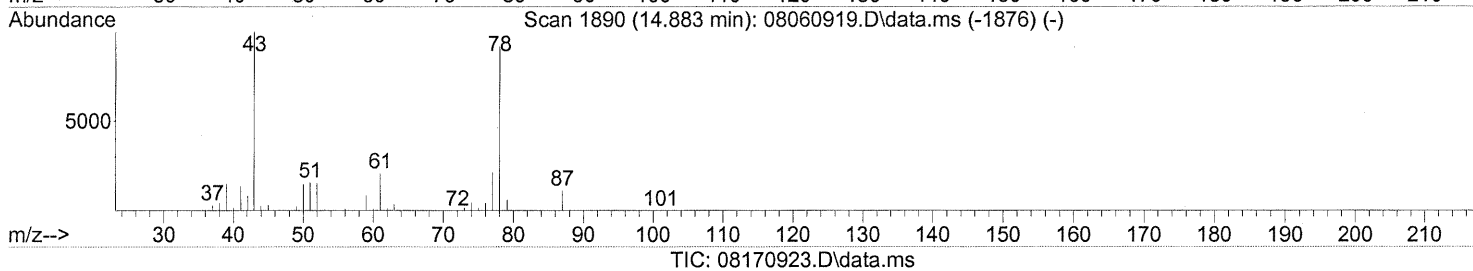
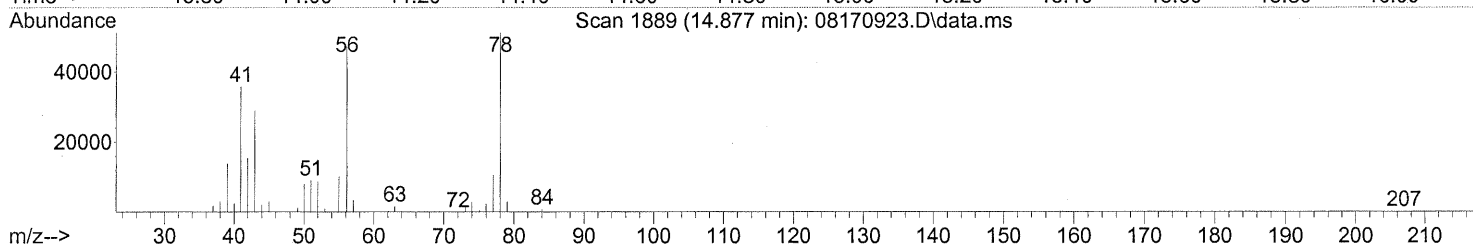
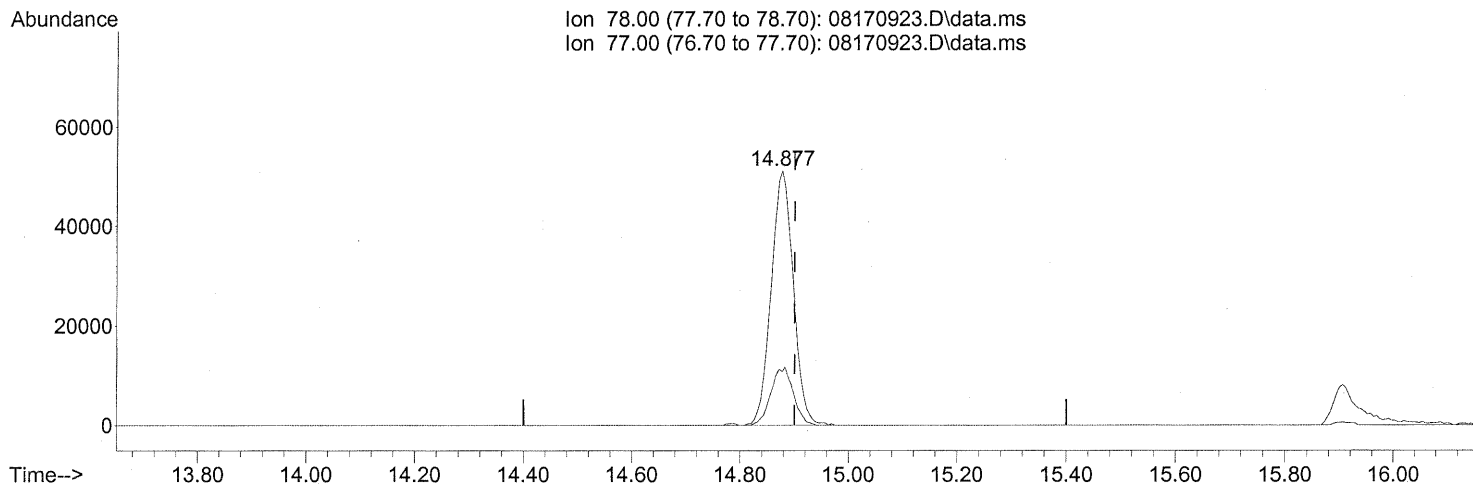
response 6536

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	95.59
42.10	253.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



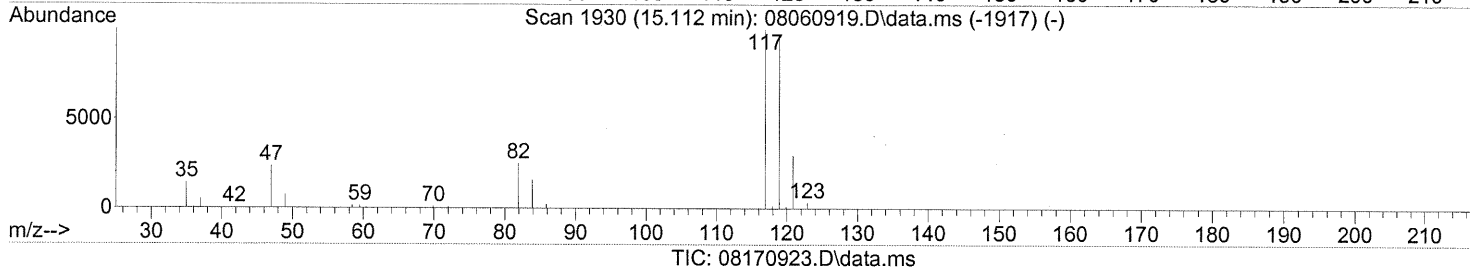
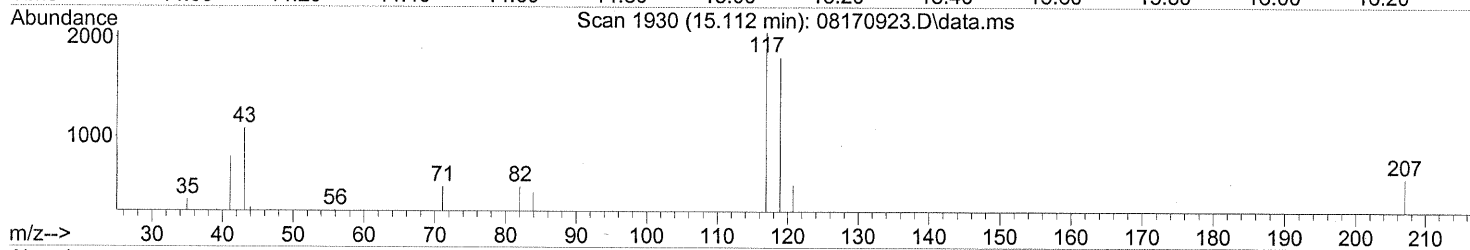
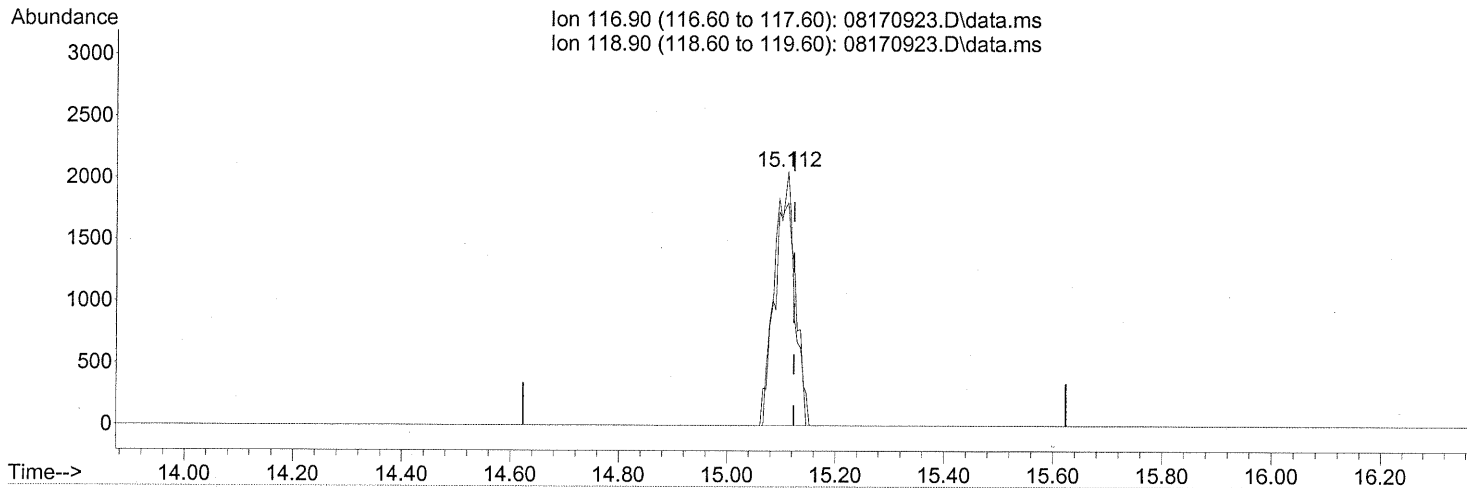
(41) Benzene (T)
 14.877min (-0.023) 2.95ng
 response 145119

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170923.D
Acq On : 17 Aug 2009 20:47
Operator : WA
Sample : P0902721-016 (1000mL)
Misc : Env. Health & Engineering 100205
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.112min (-0.011) 0.34ng

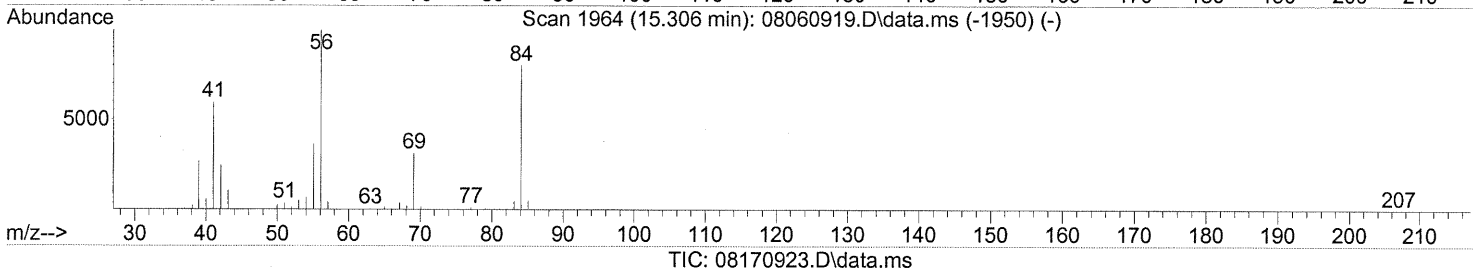
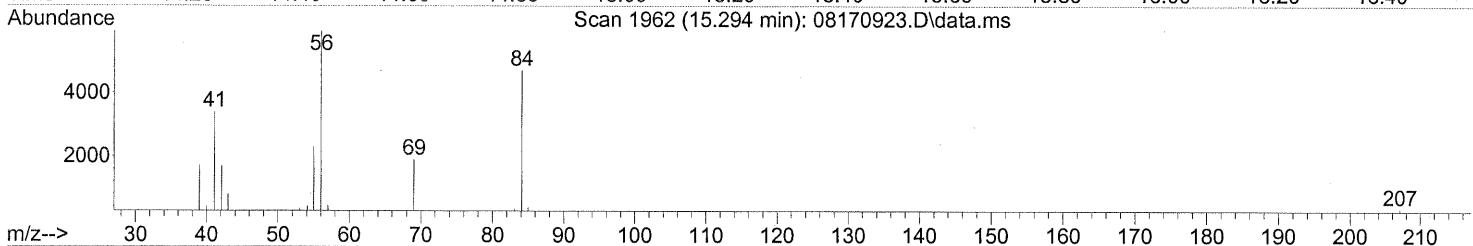
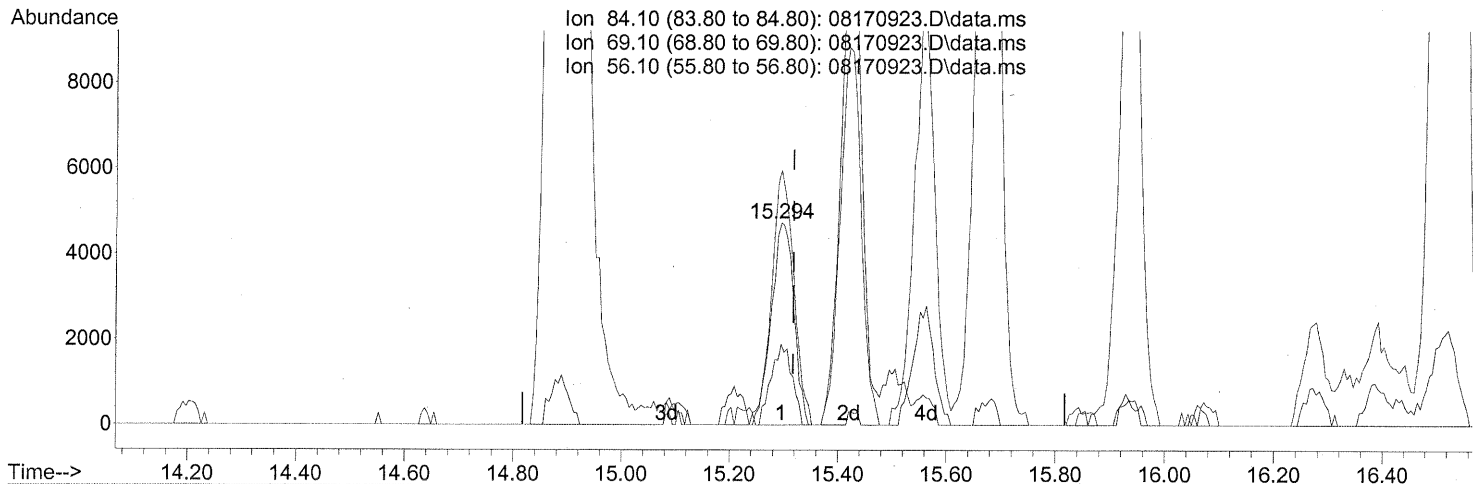
response 5271

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	98.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



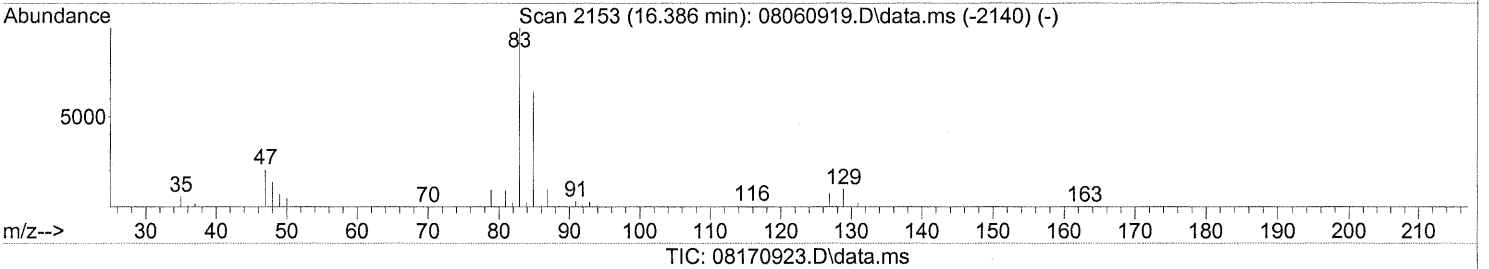
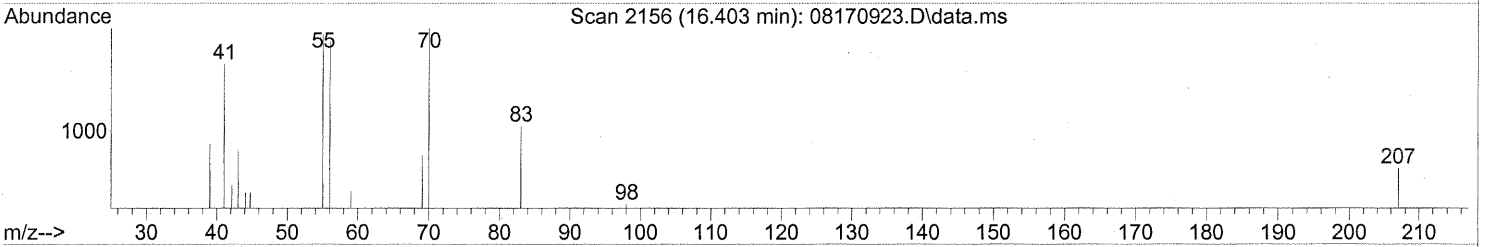
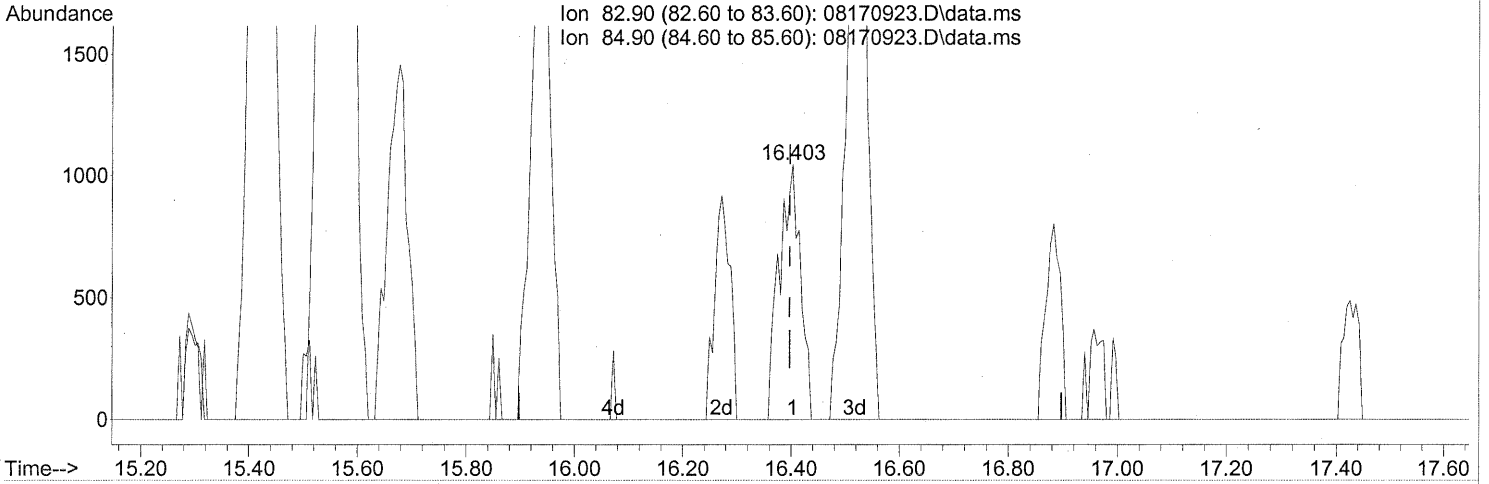
(43) Cyclohexane (T)
 15.294min (-0.023) 0.76ng
 response 13764

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	37.19
56.10	127.50	123.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

FP W 8/21/09

16.403min (+0.006) 0.18ng

response 2849

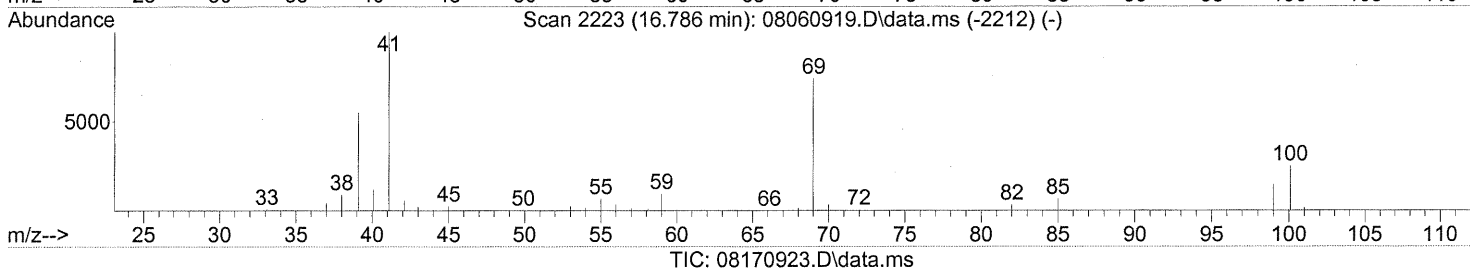
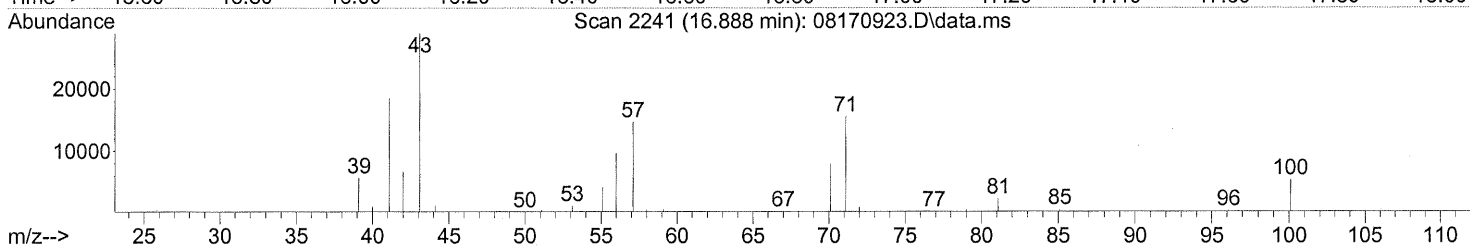
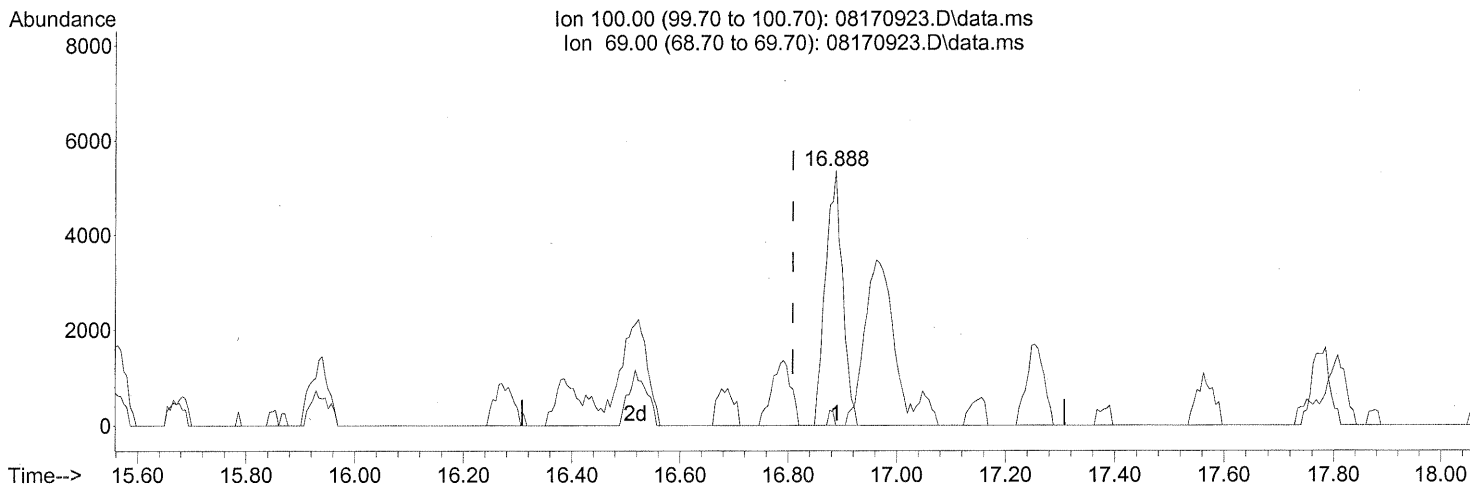
8/21/09

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.888min (+0.080) 2.59ng

response 11734

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	1.74#
0.00	0.00	0.00
0.00	0.00	0.00

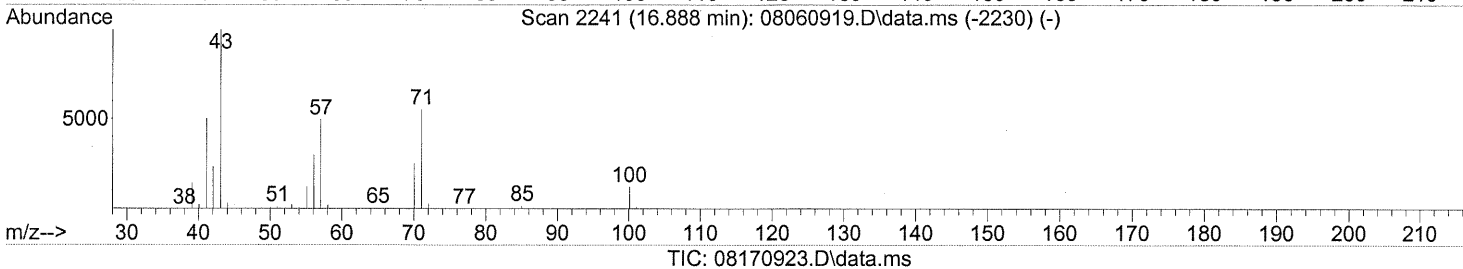
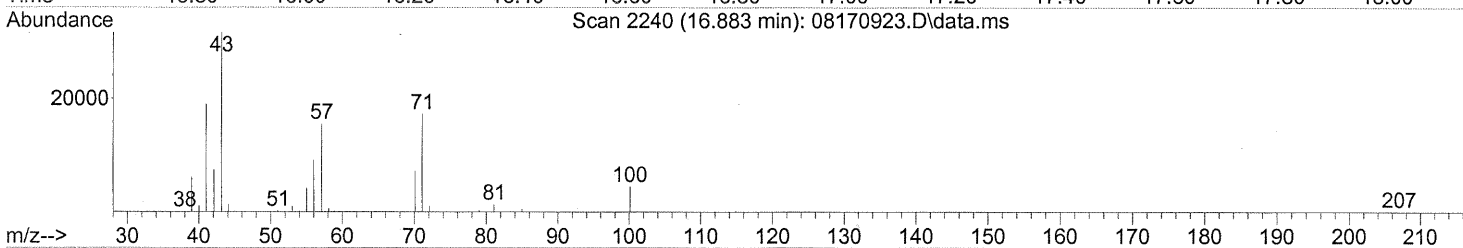
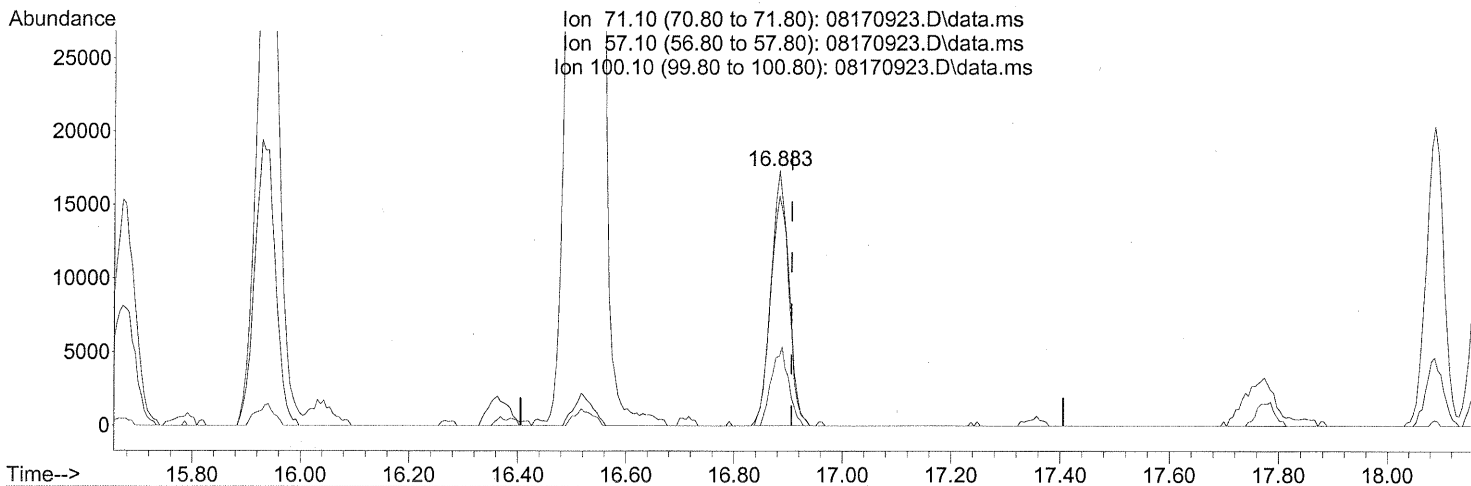
FP LH 8/21/09

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



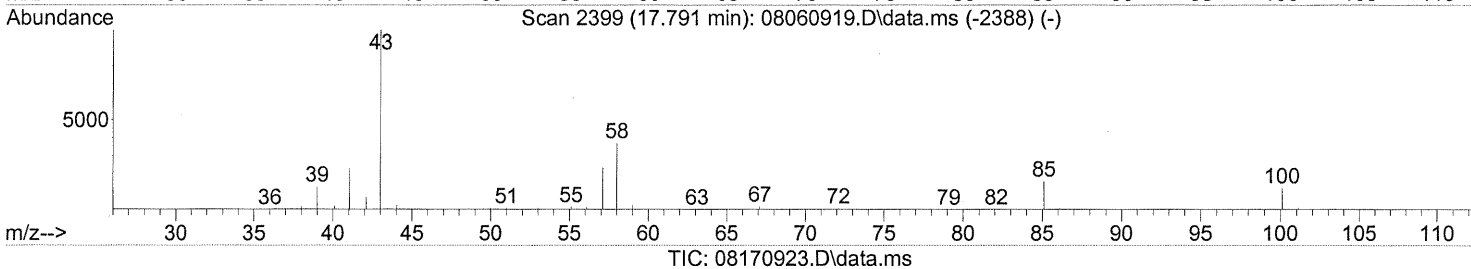
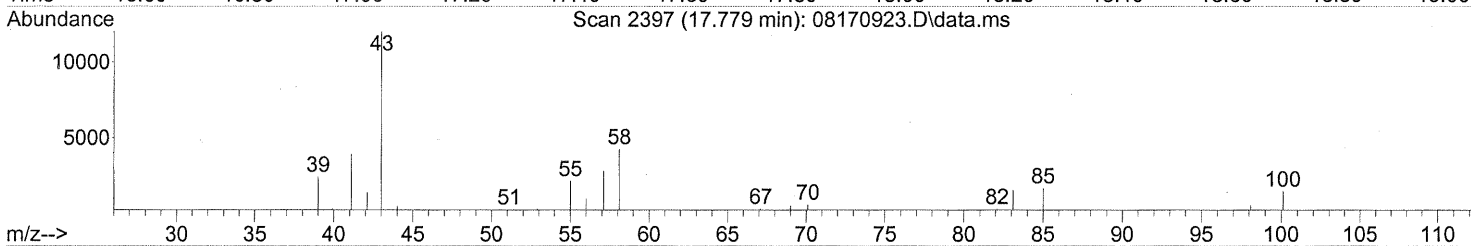
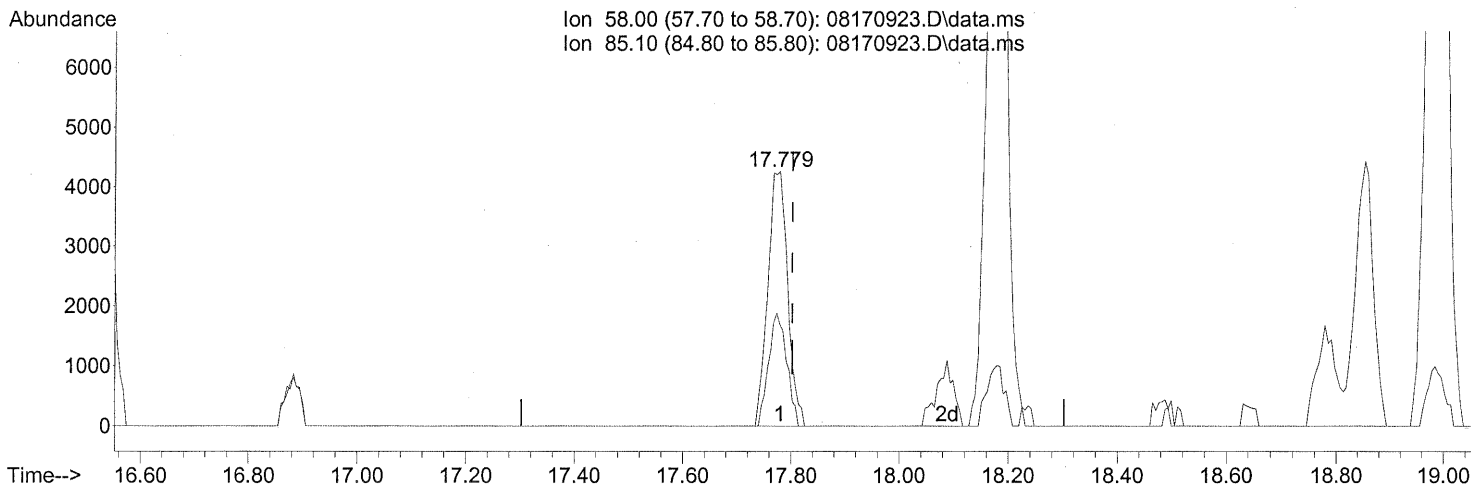
(51) n-Heptane (T)
 16.883min (-0.023) 3.03ng
 response 40005

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	93.14
100.10	26.40	29.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.779min (-0.023) 0.91ng

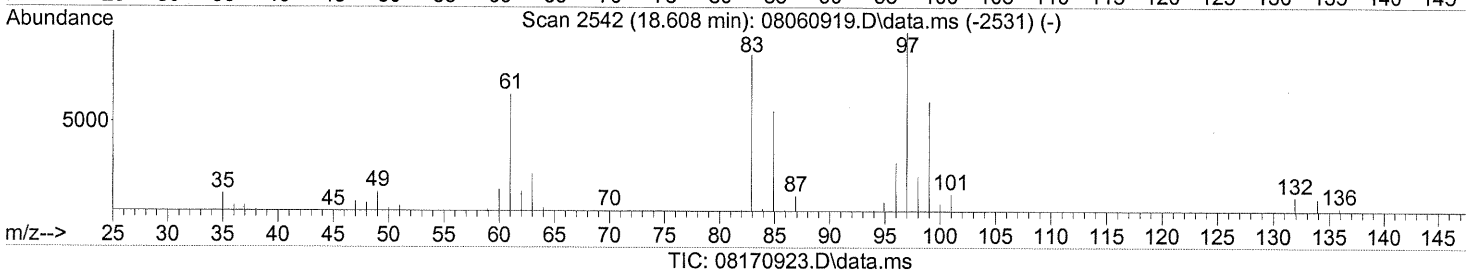
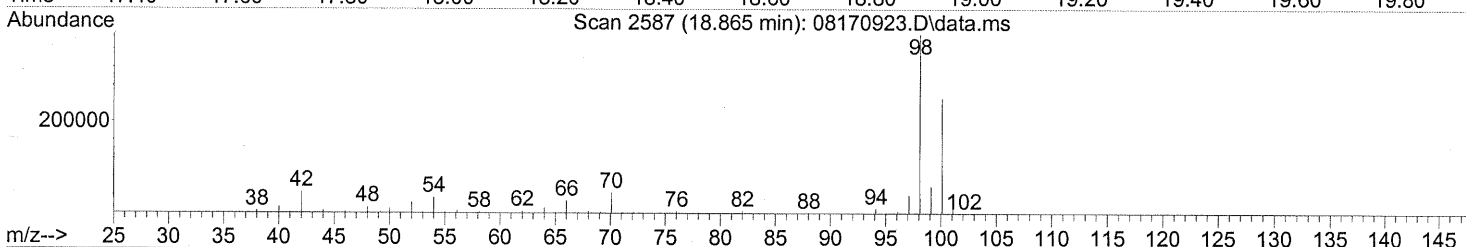
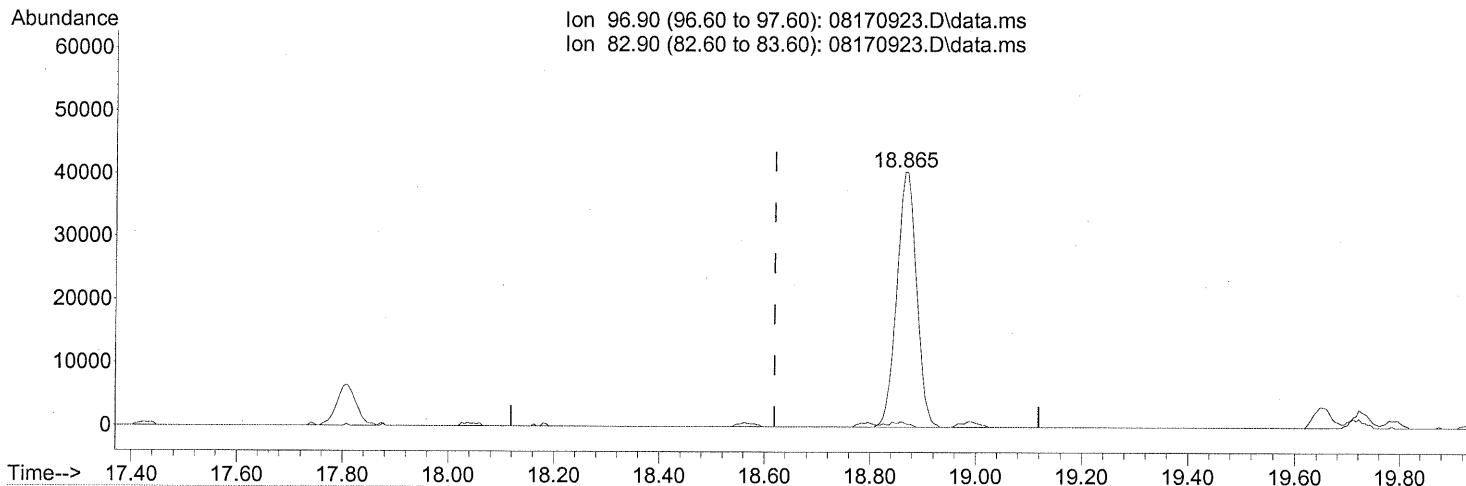
response 10795

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	40.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.74ng

response 105159

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.89#
0.00	0.00	0.00
0.00	0.00	0.00

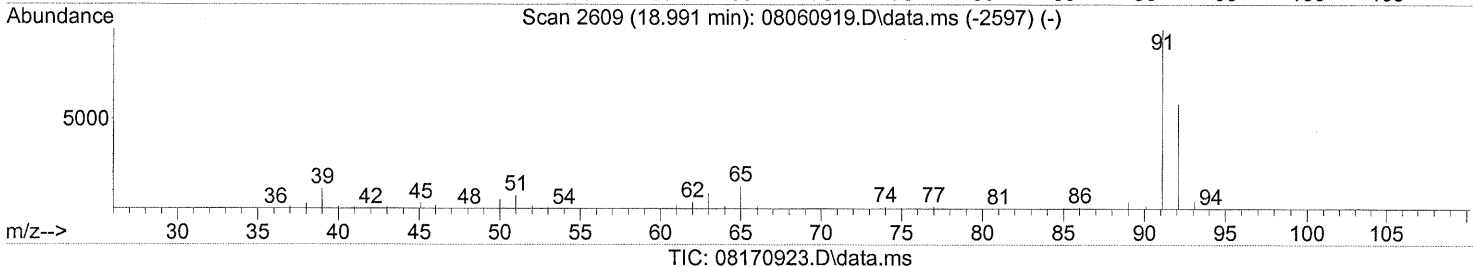
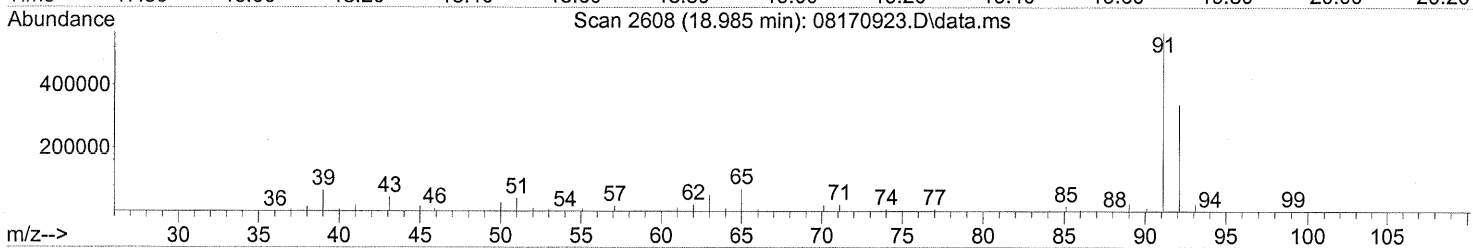
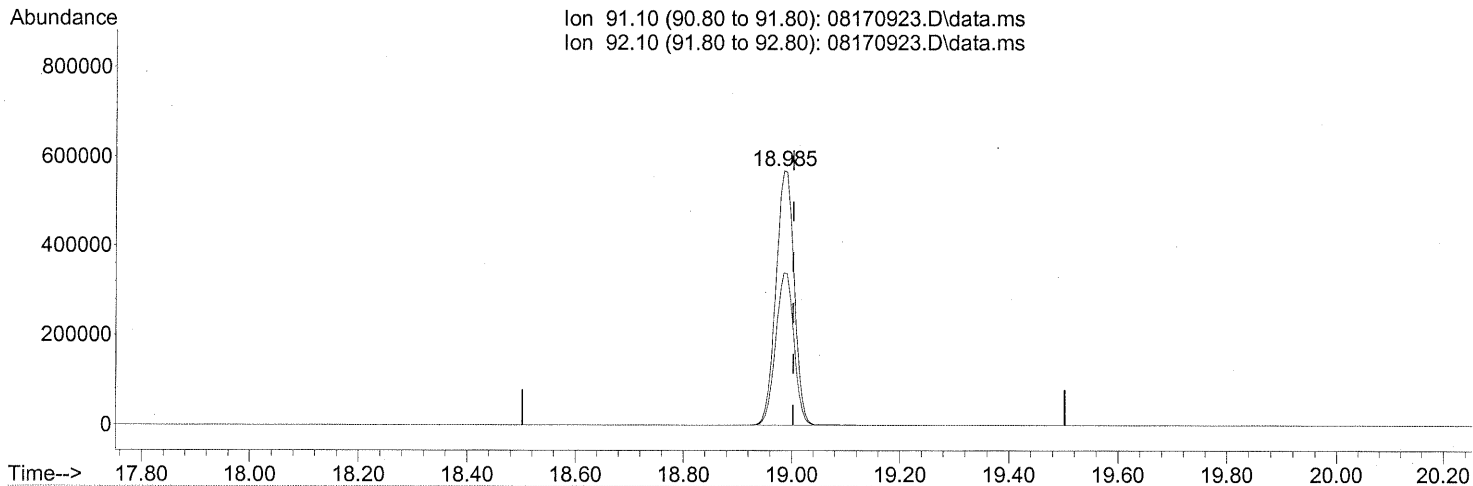
FP in 8/21/09

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170923.D
Acq On : 17 Aug 2009 20:47
Operator : WA
Sample : P0902721-016 (1000mL)
Misc : Env. Health & Engineering 100205
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 28.91ng

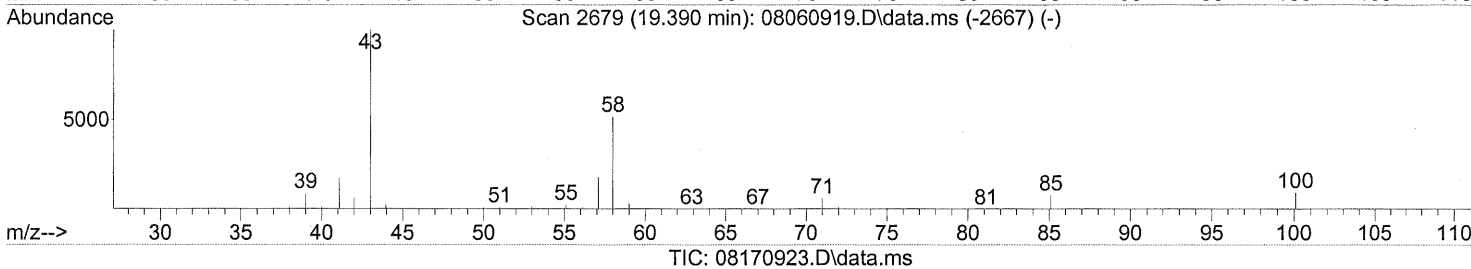
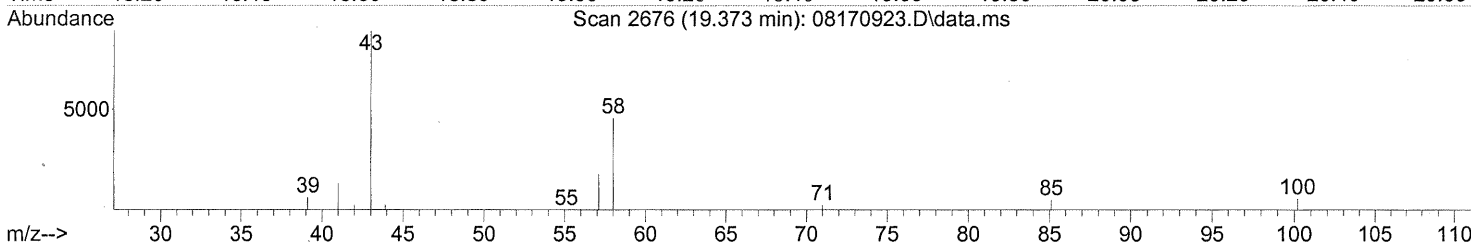
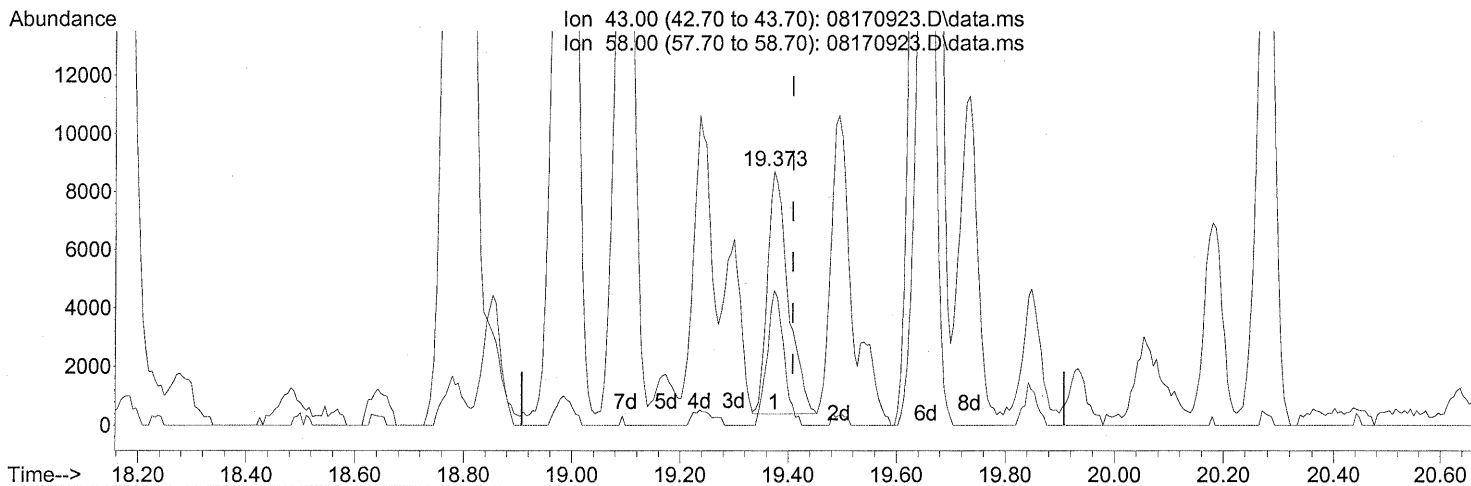
response 1330928

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



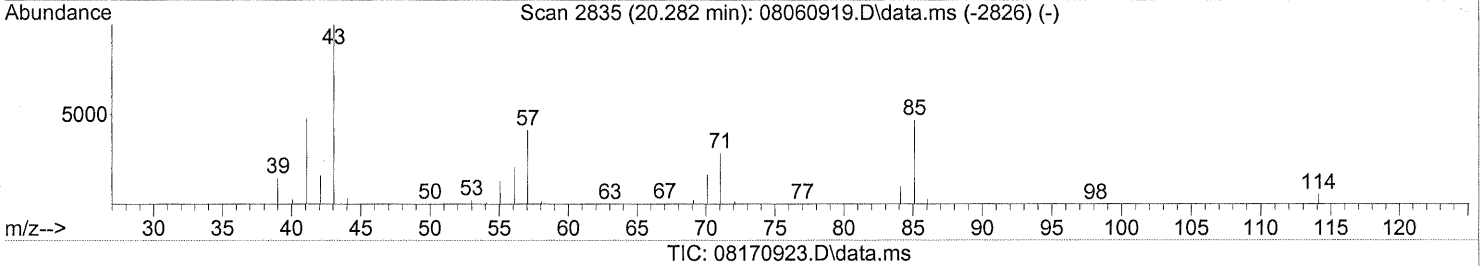
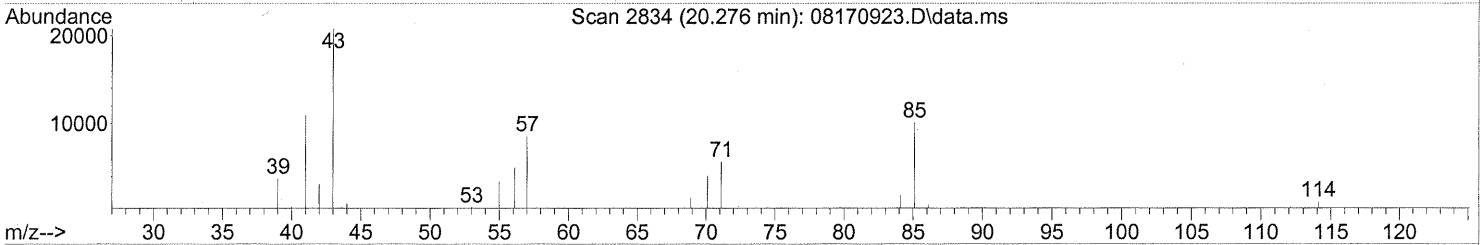
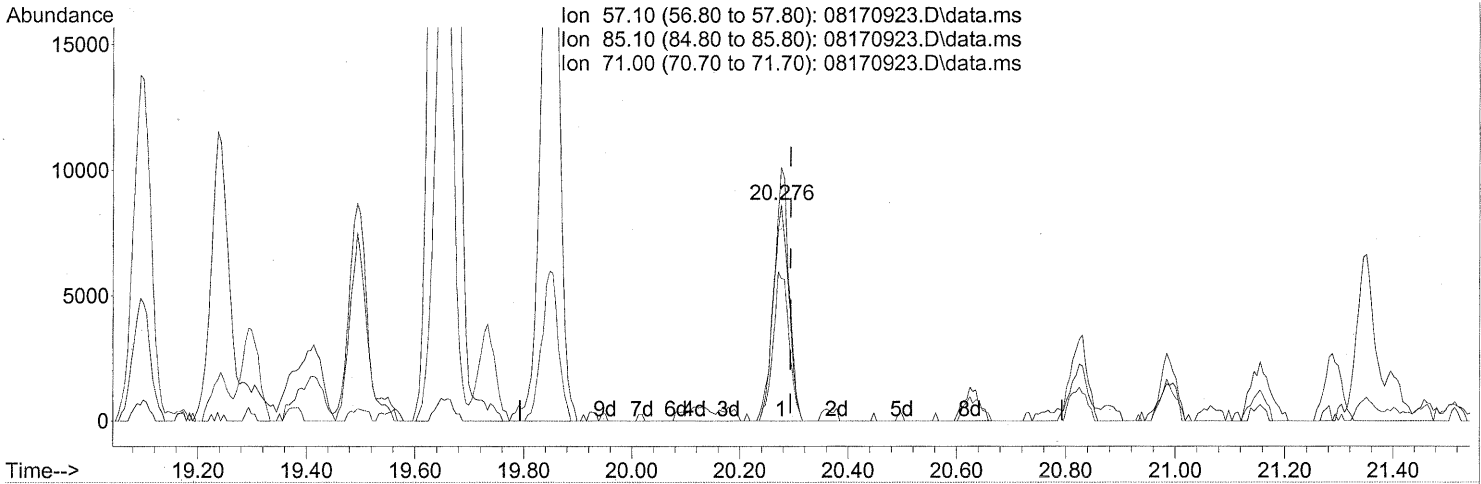
(59) 2-Hexanone (T)
 19.373min (-0.034) 0.72ng
 response 22136

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	44.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.276min (-0.017) 1.56ng

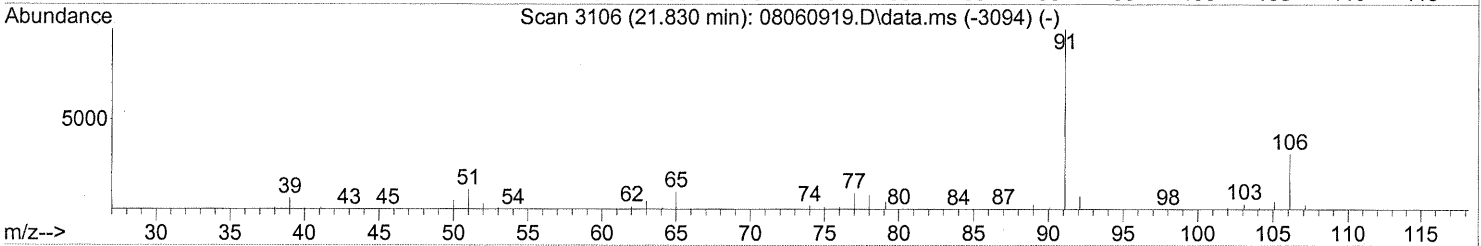
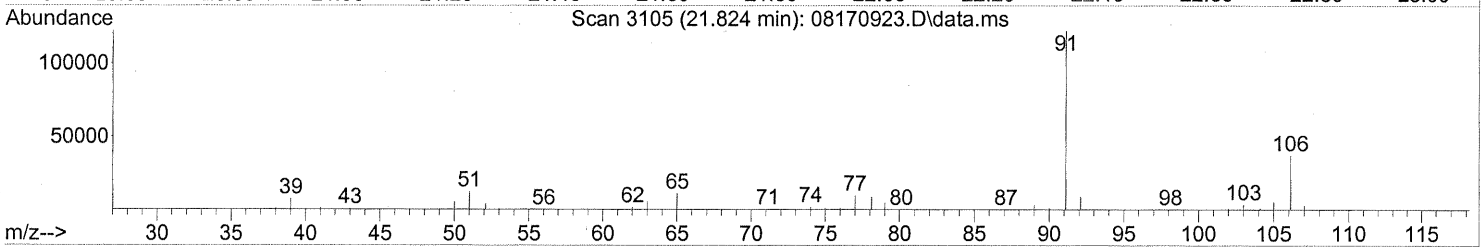
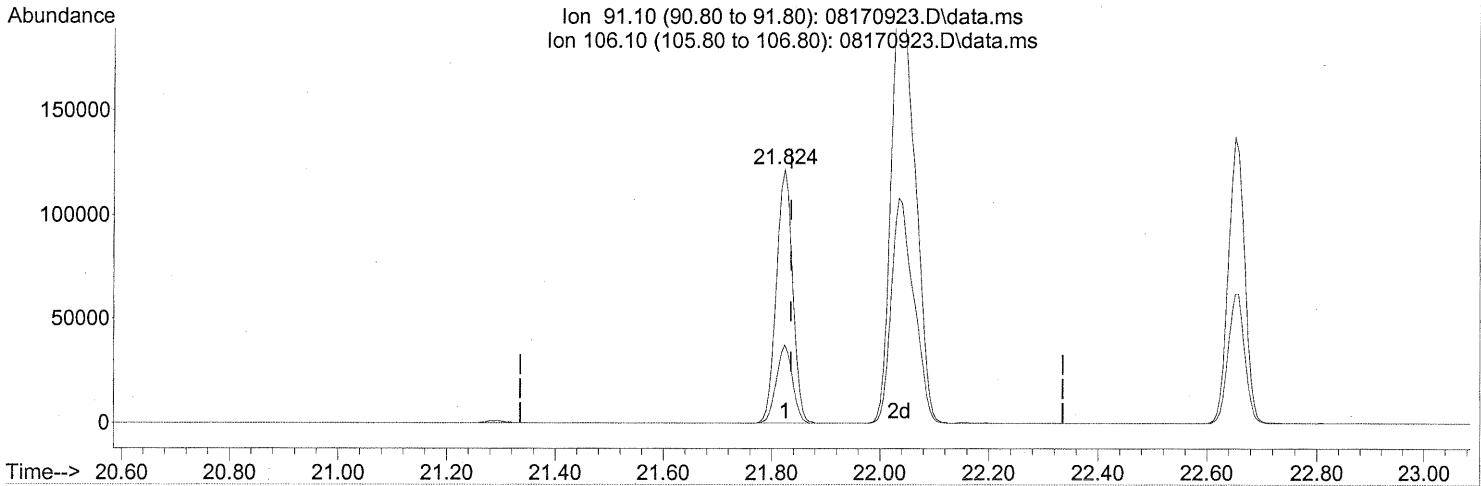
response 17329

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	112.27
71.00	68.10	69.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170923.D\data.ms

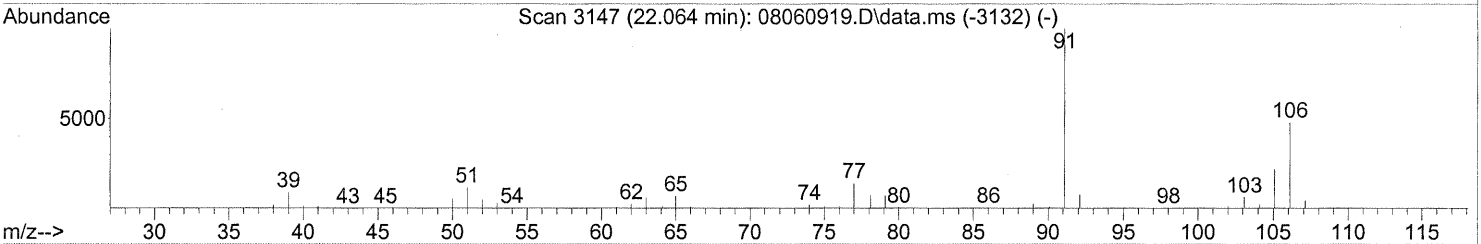
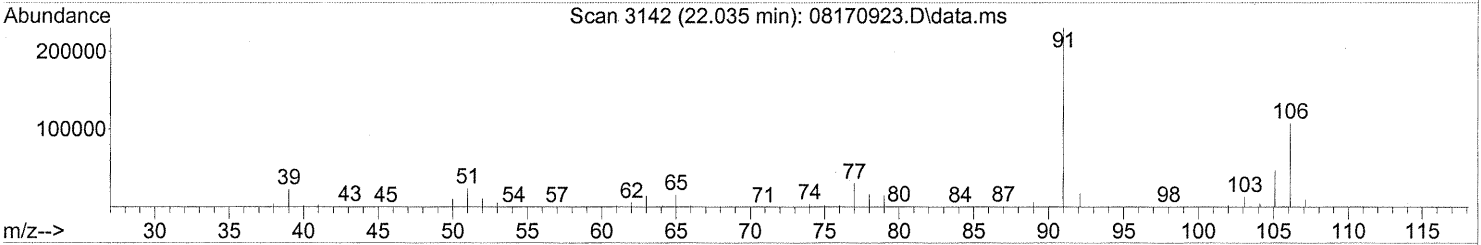
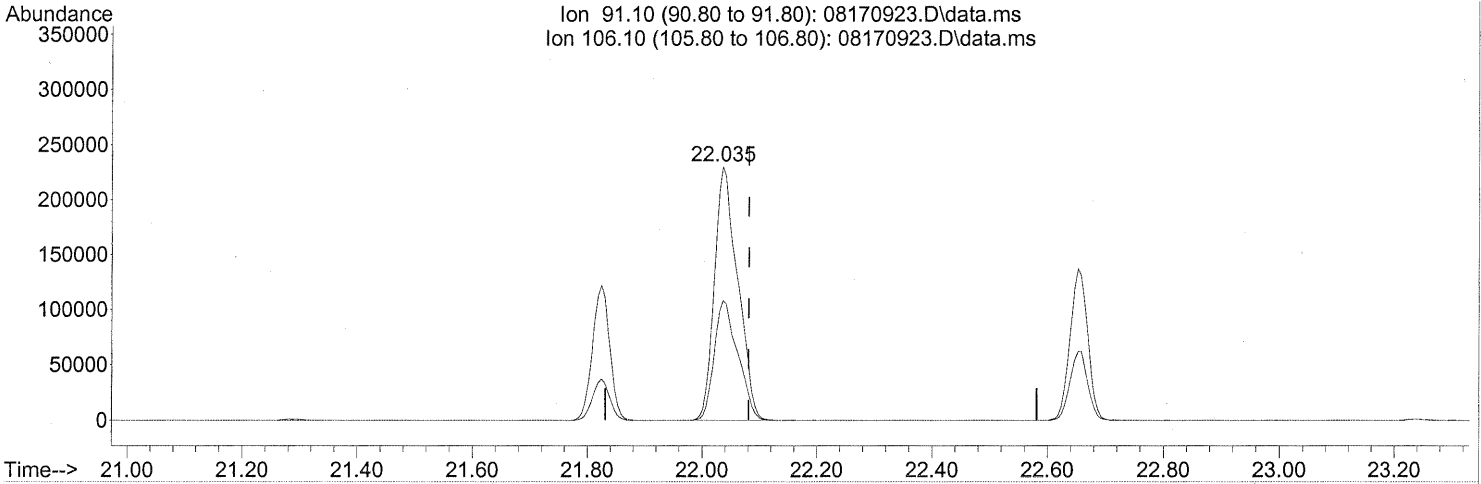
(66) Ethylbenzene (T)
 21.824min (-0.011) 4.81ng
 response 253428

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170923.D\data.ms

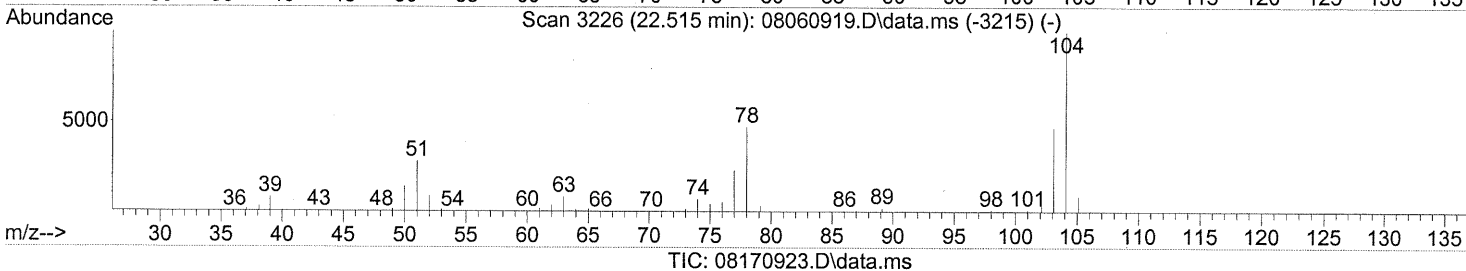
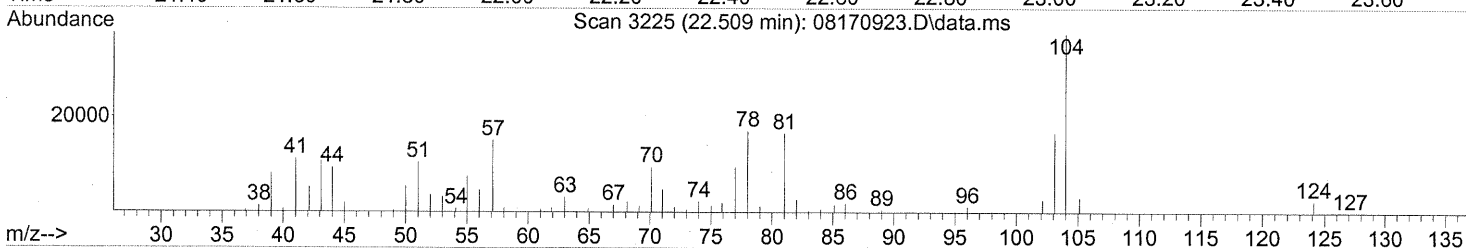
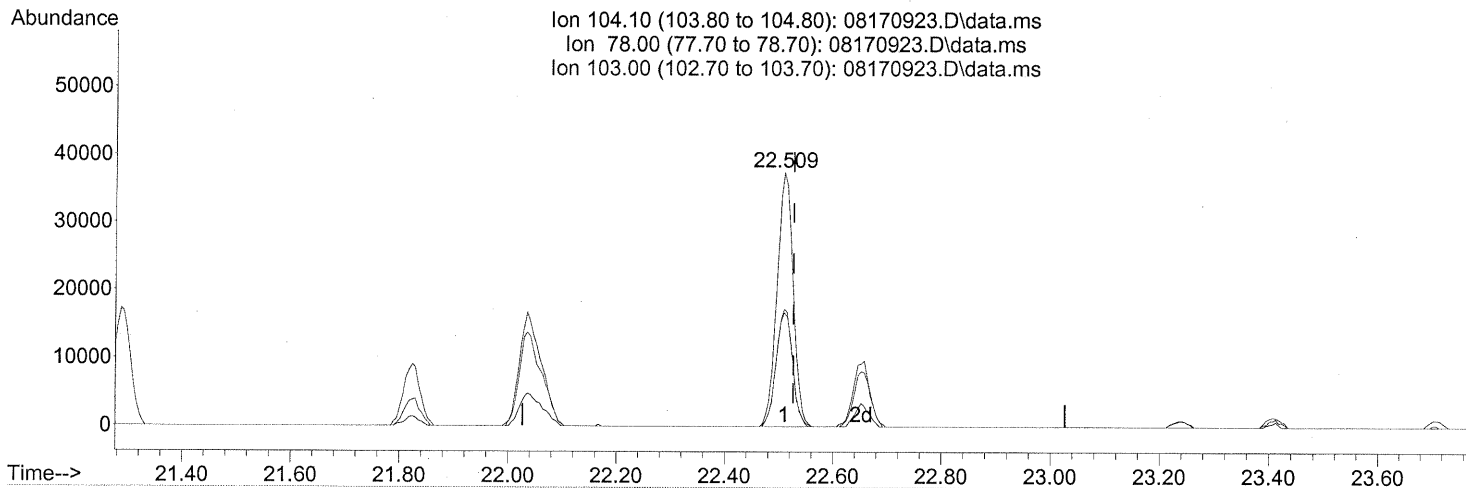
(67) m- & p-Xylenes (T)
 22.035min (-0.046) 15.26ng
 response 649586

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



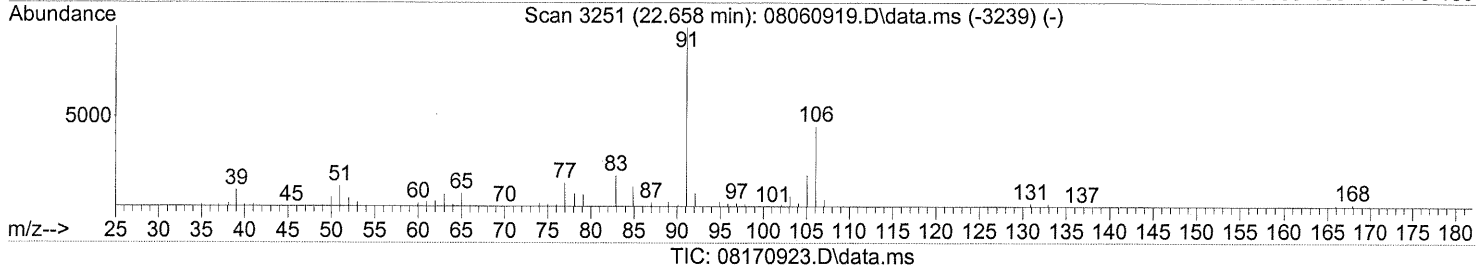
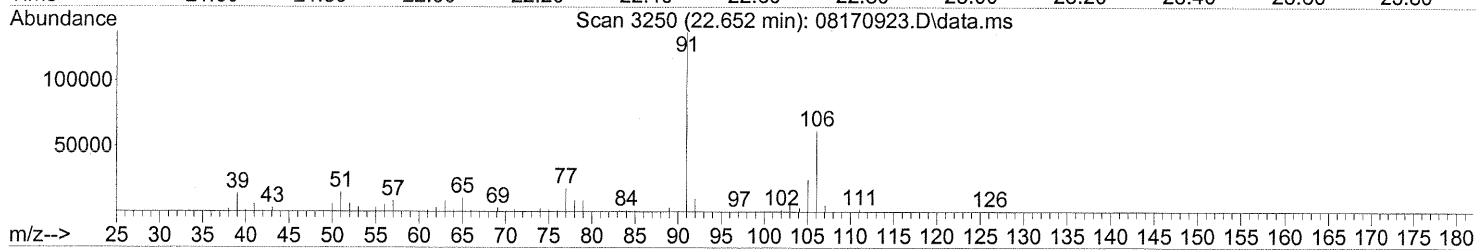
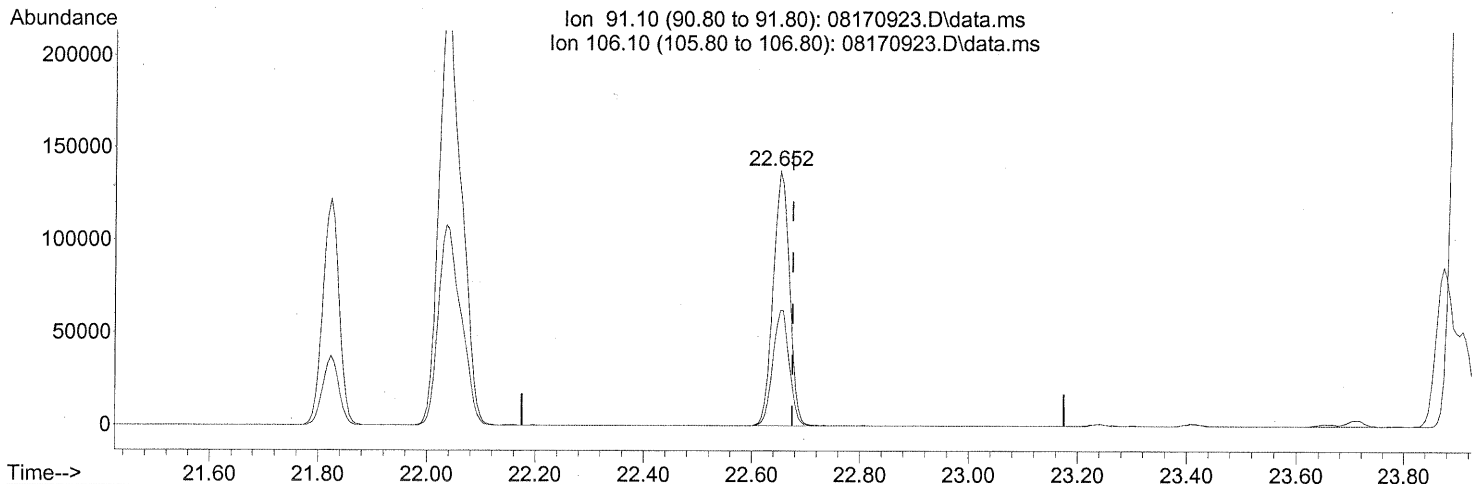
(69) Styrene (T)
 22.509min (-0.017) 2.52ng
 response 77602

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	46.50
103.00	46.20	46.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
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 Misc : Env. Health & Engineering 100205
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Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 6.74ng

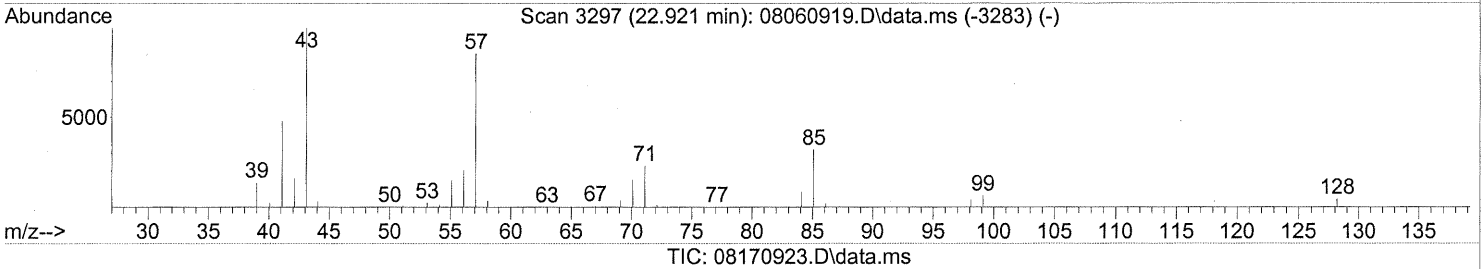
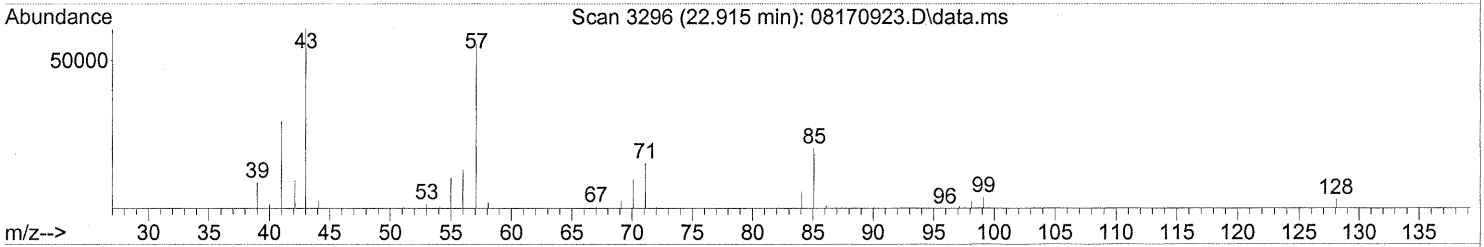
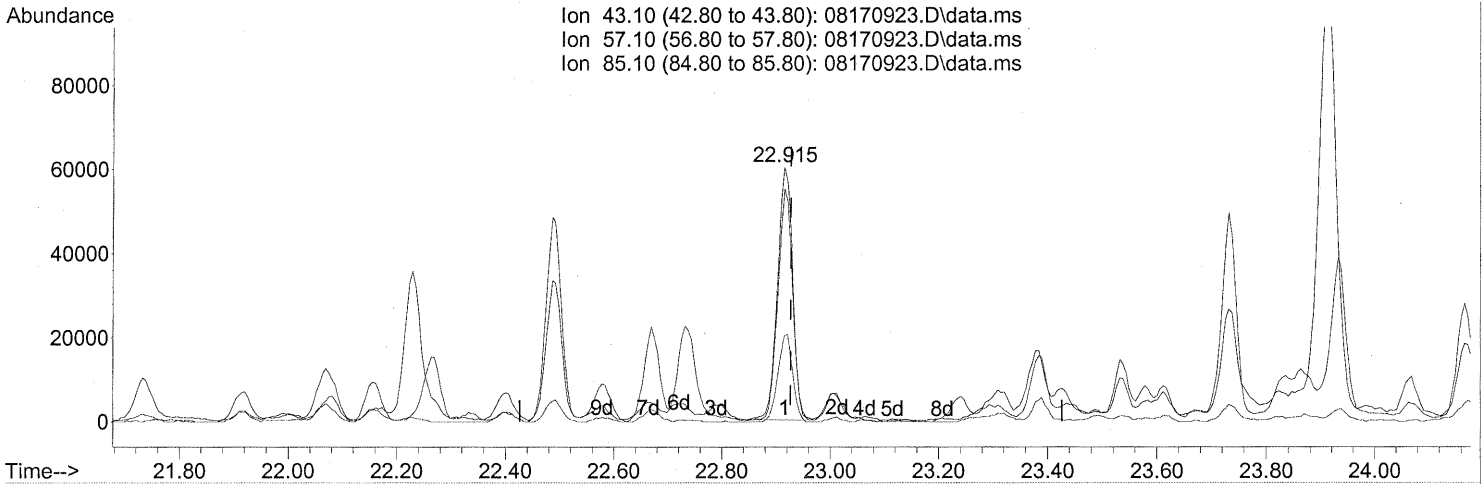
response 287934

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



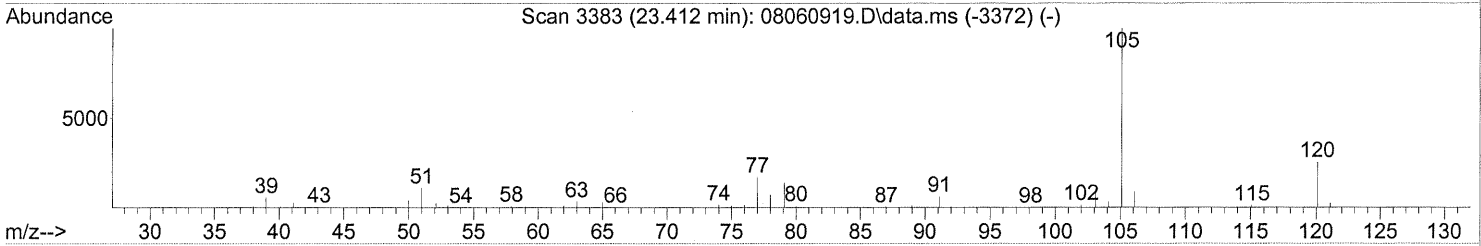
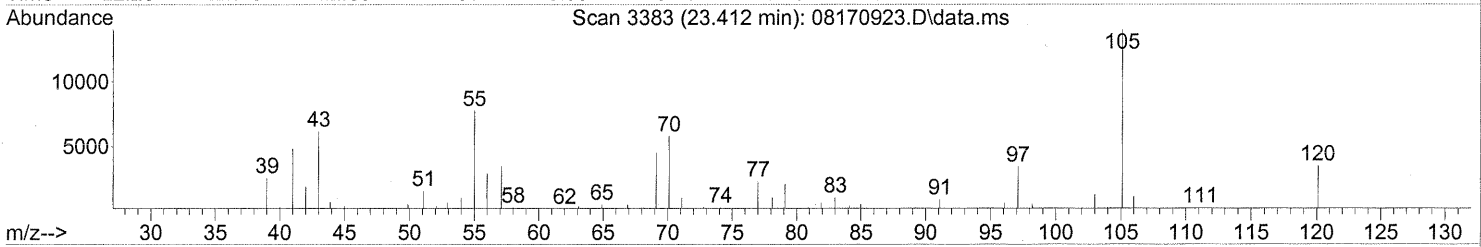
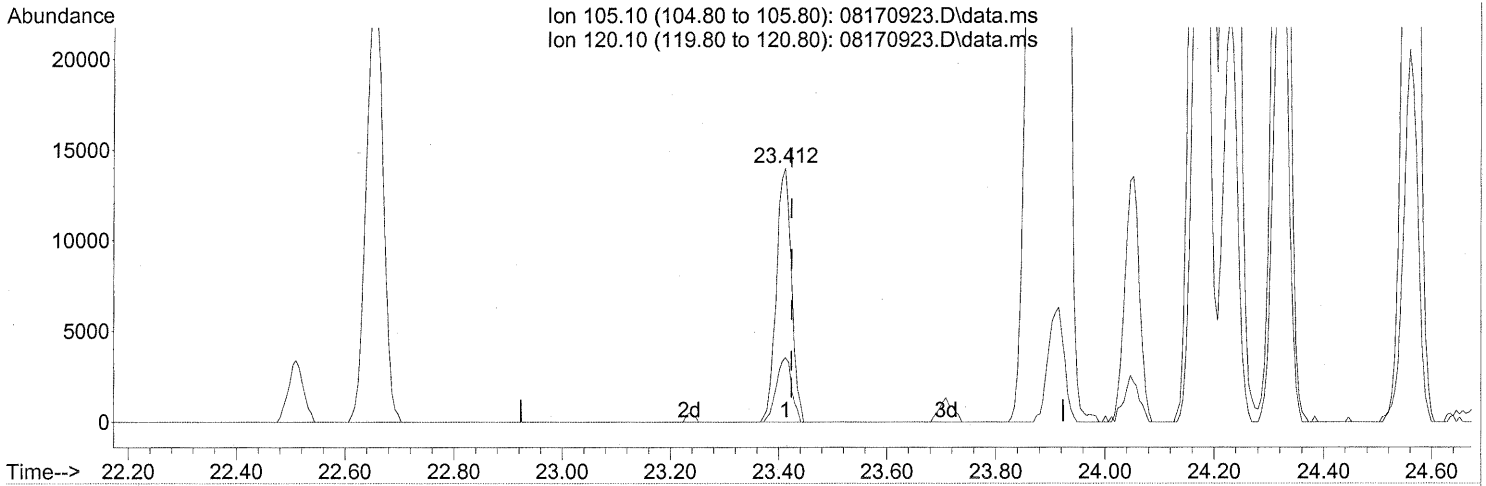
(71) n-Nonane (T)
 22.915min (-0.011) 4.09ng
 response 116069

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	88.66
85.10	30.40	33.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170923.D\data.ms

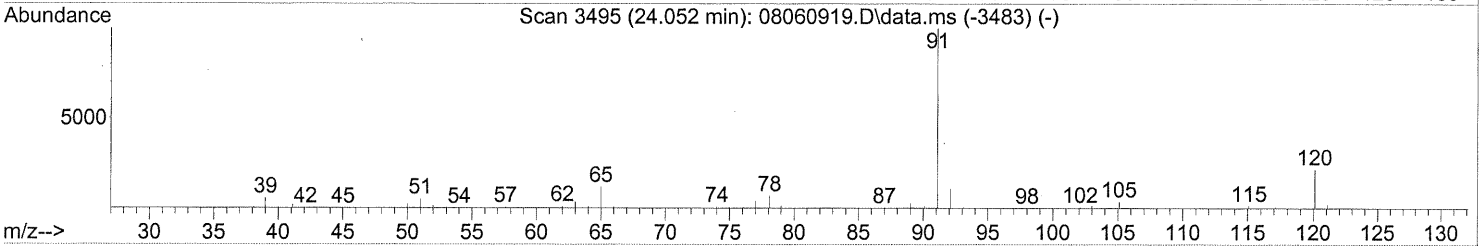
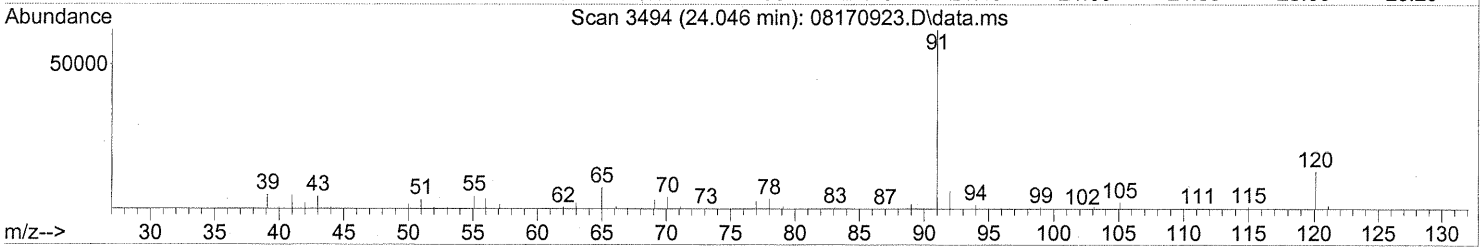
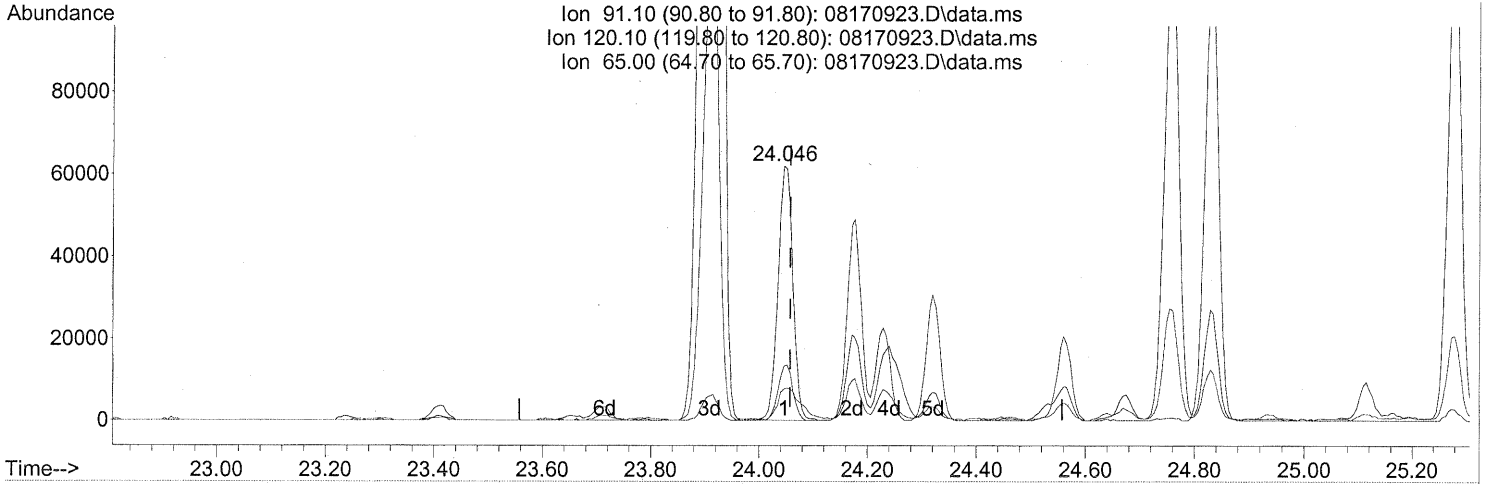
(74) Cumene (T)
 23.412min (-0.011) 0.50ng
 response 27155

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	25.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170923.D\data.ms

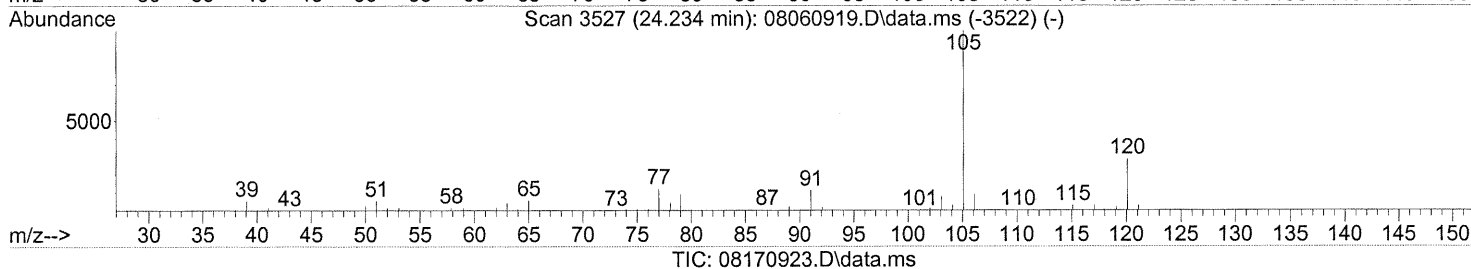
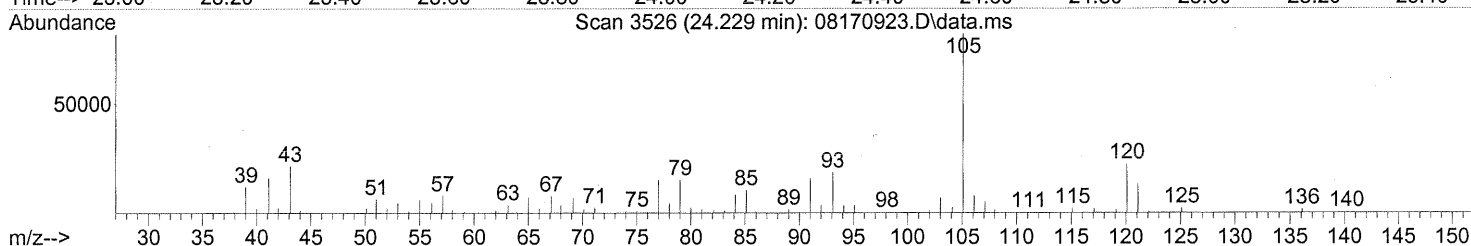
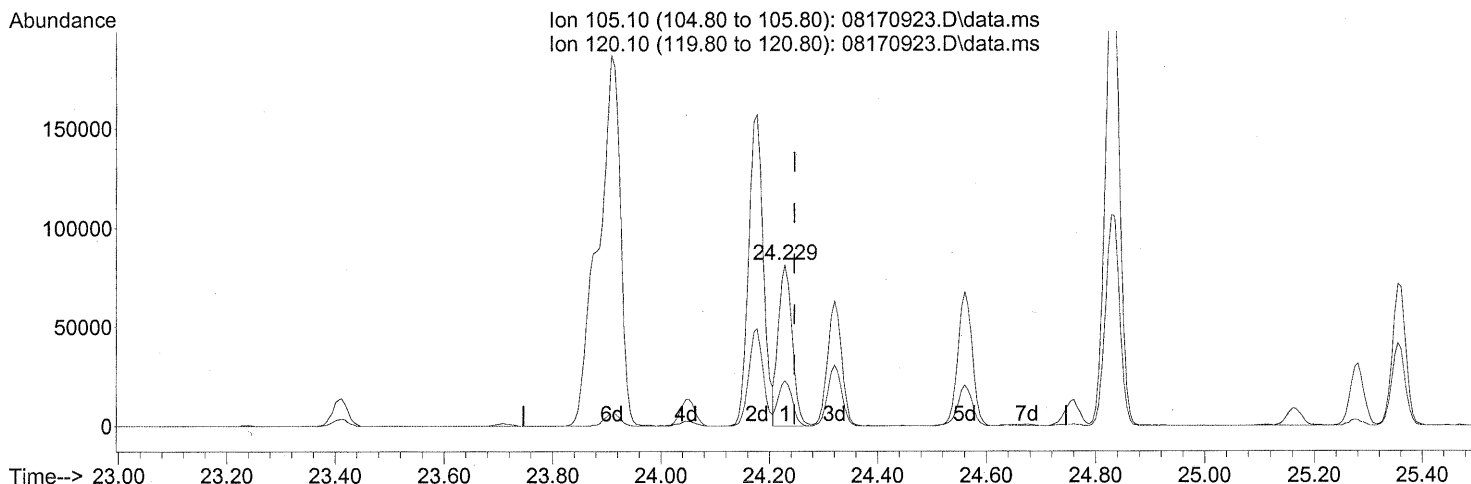
(76) n-Propylbenzene (T)
 24.046min (-0.011) 1.74ng
 response 117760

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	21.64
65.00	12.00	20.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



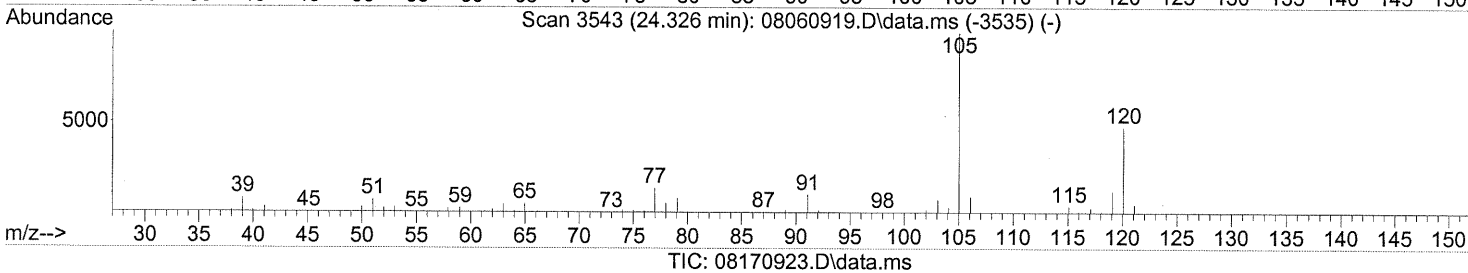
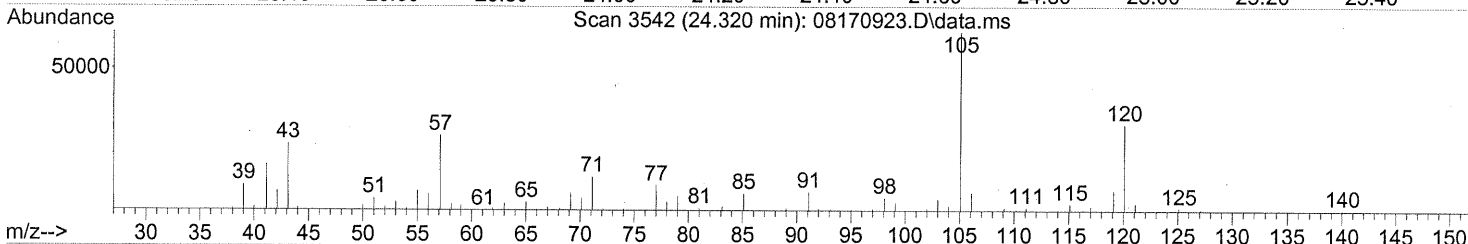
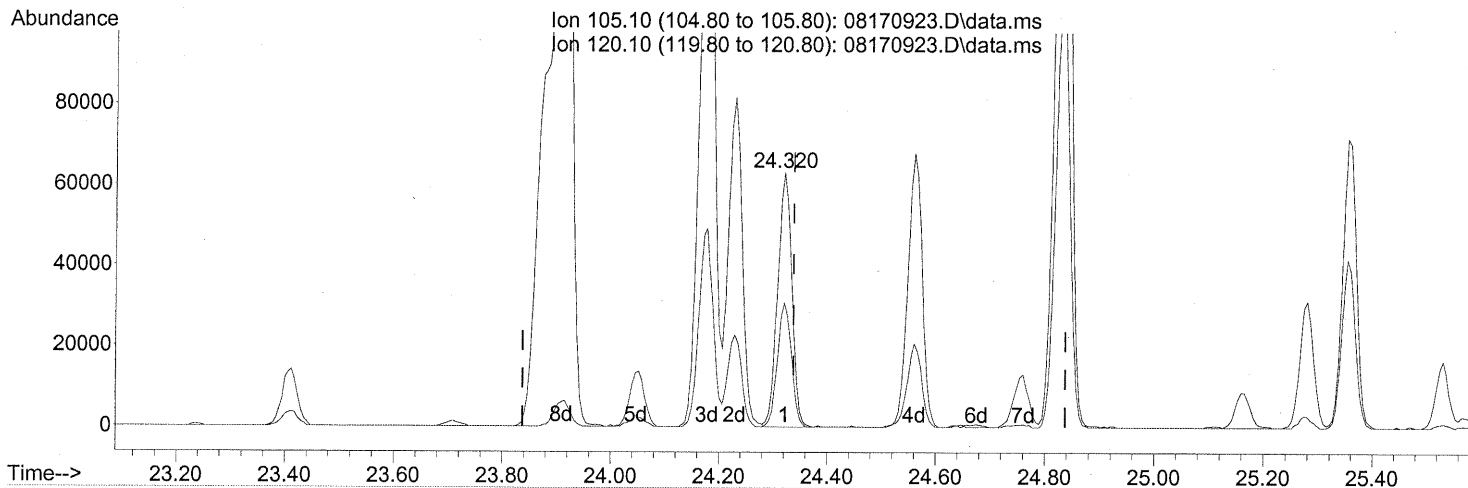
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 2.86ng
 response 143026

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	28.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 2.71ng

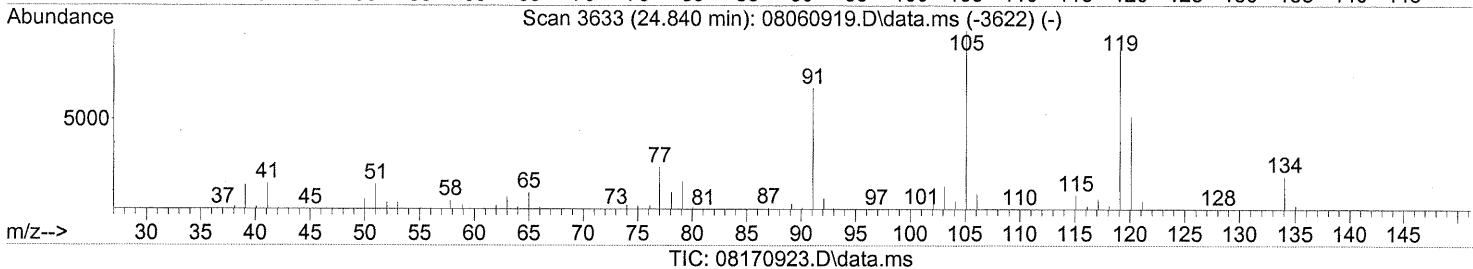
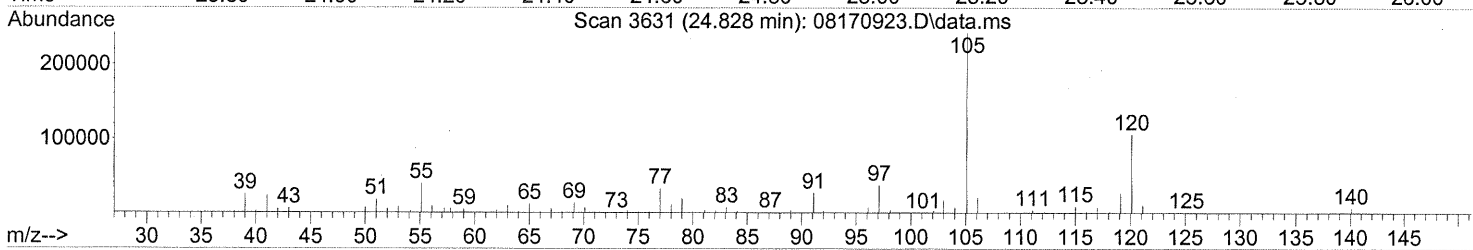
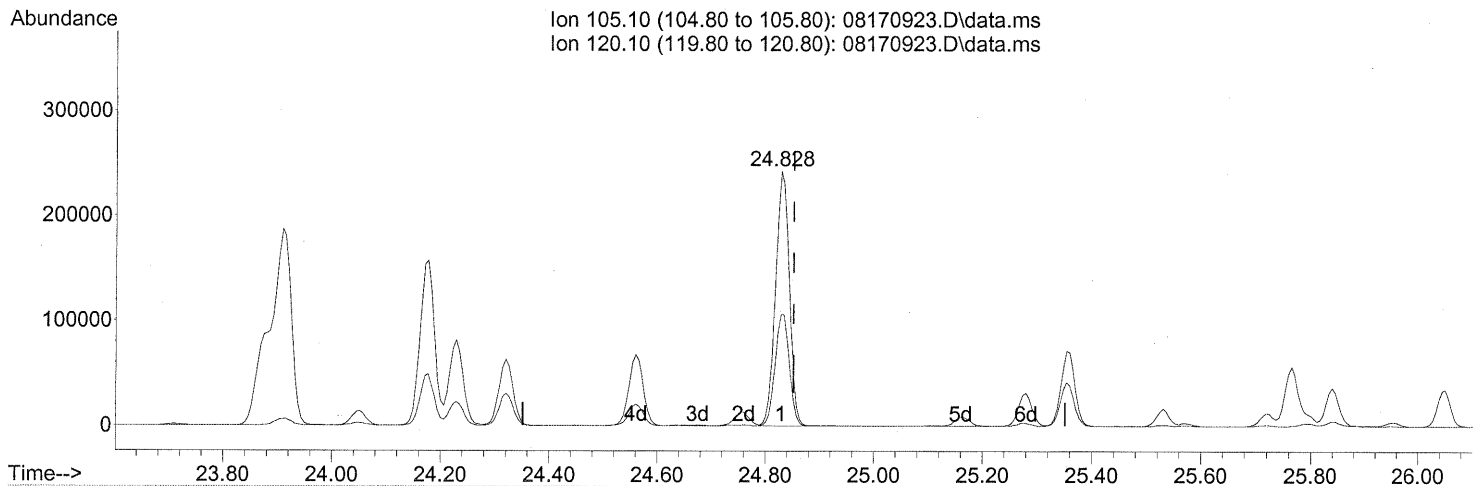
response 113971

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	48.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 9.96ng

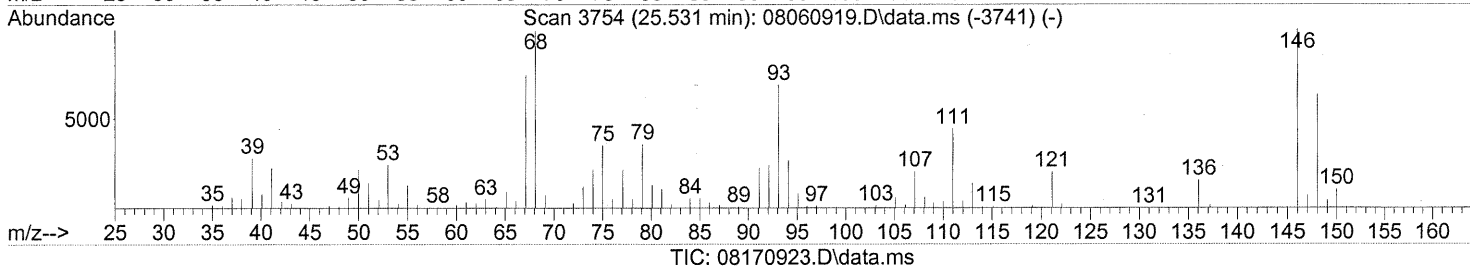
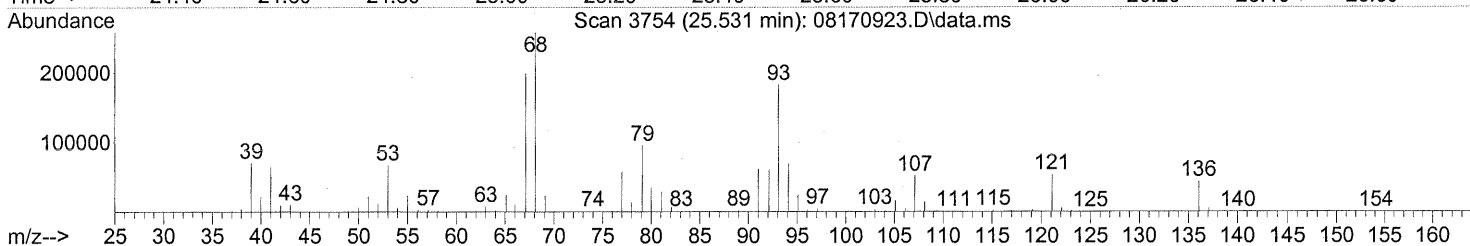
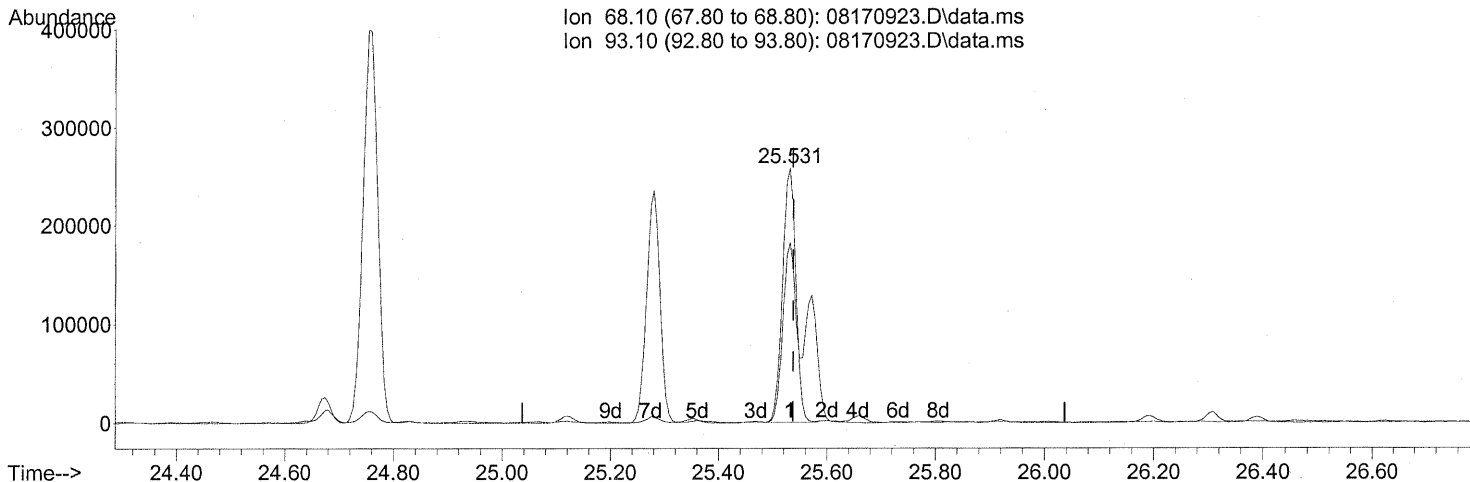
response 427932

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	45.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



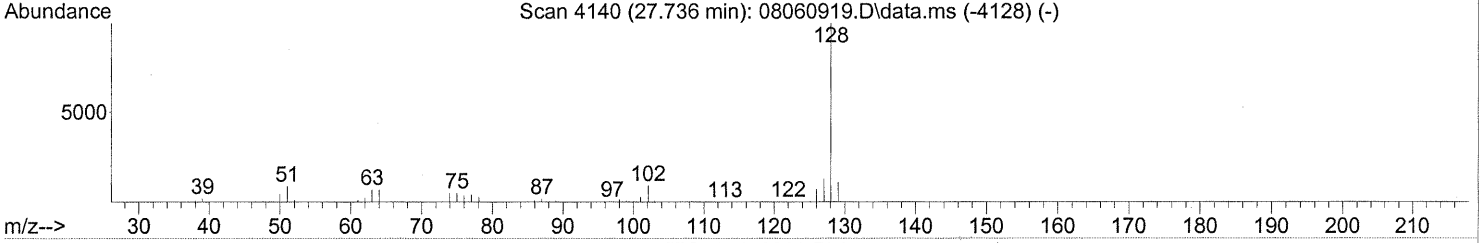
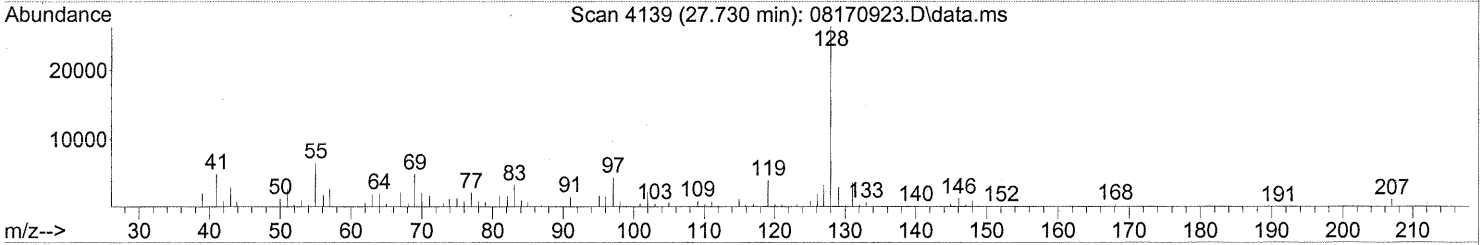
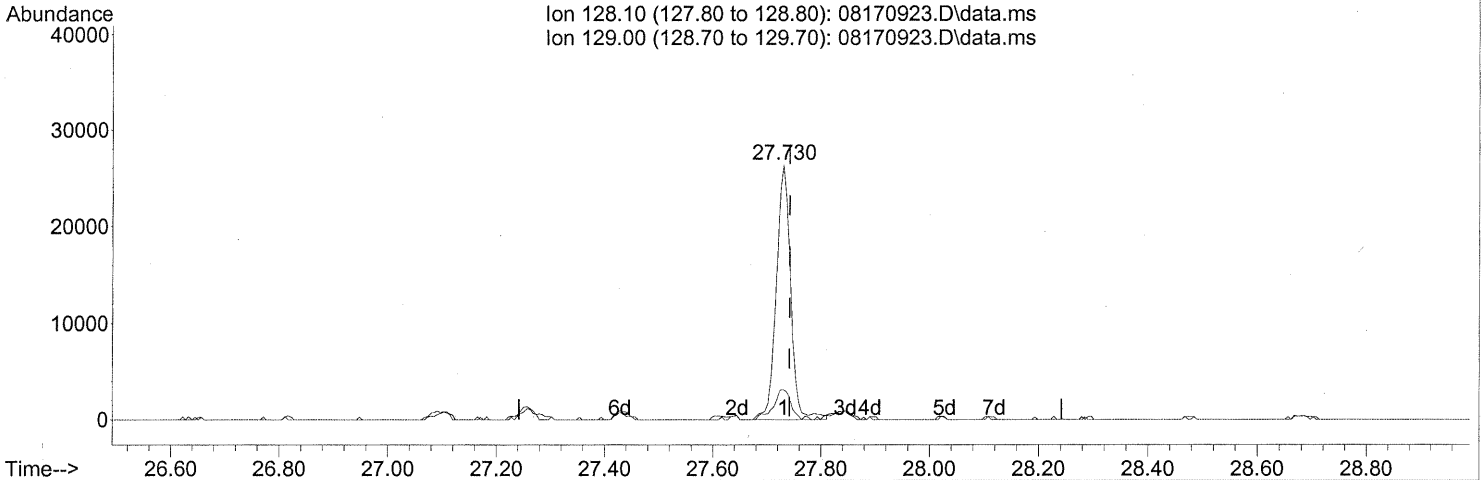
(91) d-Limonene (T)
 25.531min (-0.006) 23.77ng
 response 434153

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	75.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170923.D
 Acq On : 17 Aug 2009 20:47
 Operator : WA
 Sample : P0902721-016 (1000mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 06:48:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



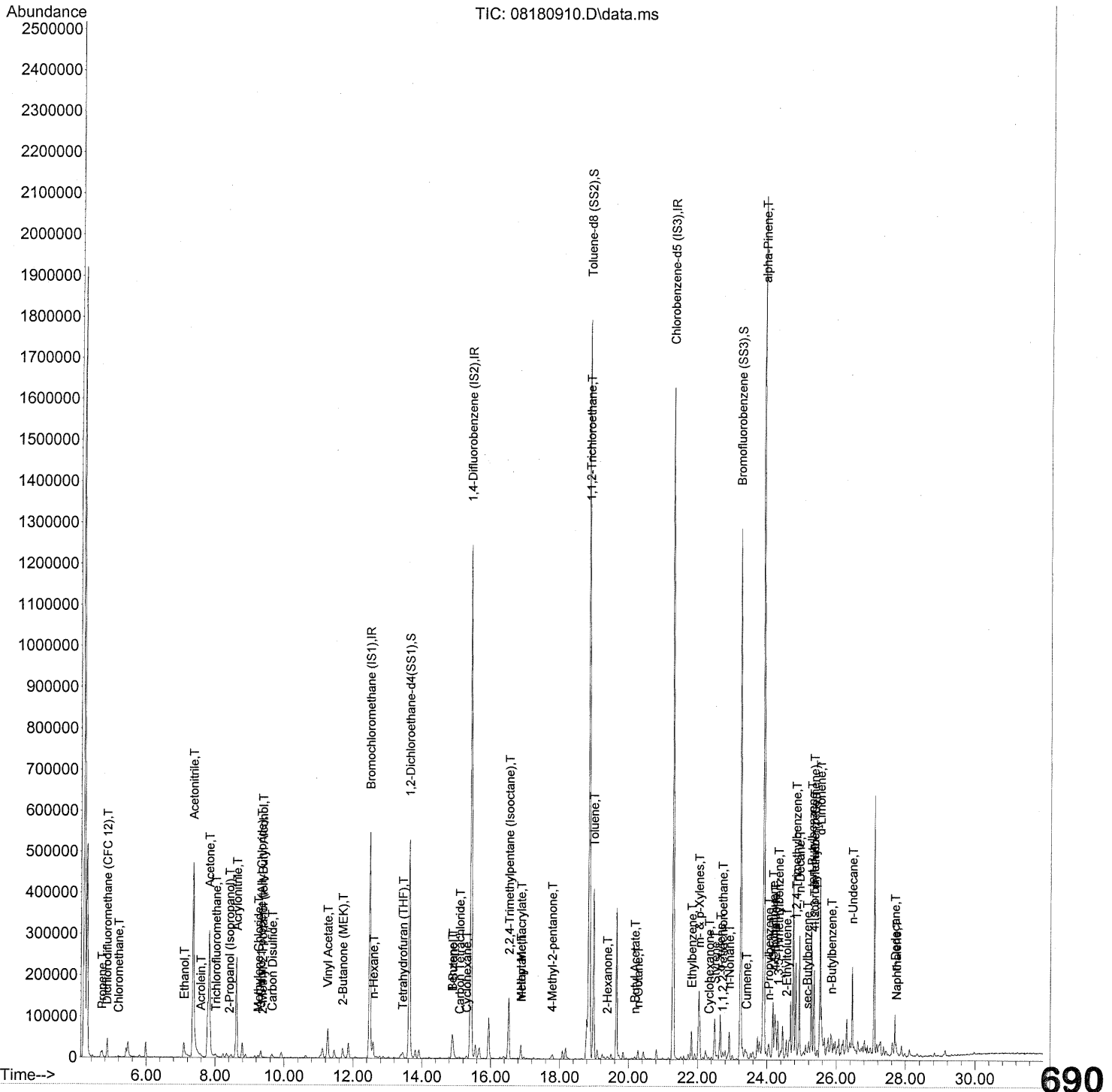
(95) Naphthalene (T)
 27.730min (-0.011) 0.84ng
 response 49003

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	14.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180910.D
 Acq On : 18 Aug 2009 20:46
 Operator : WA
 Sample : P0902721-016 dil (200mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 19 10:11:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180910.D
 Acq On : 18 Aug 2009 20:46
 Operator : WA
 Sample : P0902721-016 dil (200mL)
 Misc : Env. Health & Engineering 100205 ✓
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 19 10:11:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

UH 8/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	280583	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1420203	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	679716	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	558136	22.886	ng	-0.03
Spiked Amount	25.000		Recovery	=	91.56%	✓
57) Toluene-d8 (SS2)	18.85	98	1547122	26.049	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.20%	✓
73) Bromofluorobenzene (SS3)	23.23	174	410298	26.196	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.80%	✓

Target Compounds

						Qvalue
2) Propene	4.70	42	5353	0.278	ng	# 58
3) Dichlorodifluoromethan...	4.85	85	10877	0.346	ng	94
4) Chloromethane	5.19	50	4412	0.209	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	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	6.37	94	101	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.09	45	93810	7.686	ng	99
11) Acetonitrile	7.35	41	824449	23.066	ng	100
12) Acrolein	7.58	56	7884	0.849	ng	88
13) Acetone	7.82	58	178832	15.530	ng	93
14) Trichlorofluoromethane	8.02	101	4993	0.175	ng	100
15) 2-Propanol (Isopropanol)	8.41	45	5943	0.131	ng	# 58
16) Acrylonitrile	8.62	53	3606	0.173	ng	# 9
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.37	59	2835	0.071	ng	# 61
19) Methylene Chloride	9.25	84	3476	0.225	ng	97
20) 3-Chloro-1-propene (Al...	9.33	41	5097	0.171	ng	# 43
21) Trichlorotrifluoroethane	9.67	151	167	N.D.		
22) Carbon Disulfide	9.65	76	20547	0.377	ng	91
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	11.26	86	4453	1.900	ng	# 1
27) 2-Butanone (MEK)	11.69	72	11372	1.094	ng	98
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.70	61	236	N.D.		
31) n-Hexane	12.58	57	21486	0.775	ng	100

691

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180910.D
 Acq On : 18 Aug 2009 20:46
 Operator : WA
 Sample : P0902721-016 dil (200mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 19 10:11:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	356	N.D.		
34) Tetrahydrofuran (THF)	13.43	72	2994	0.270	ng #	75
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	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	43205	2.344	ng	81
41) Benzene	14.88	78	37481	0.600	ng	97
42) Carbon Tetrachloride	15.09	117	1103	0.055	ng #	53
43) Cyclohexane	15.29	84	3178	0.139	ng	95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.38	83	386	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	174171	2.368	ng	100
50) Methyl Methacrylate	16.88	100	3045	0.530	ng #	1
51) n-Heptane	16.88	71	9901	0.591	ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.78	58	2852	0.190	ng	85
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	135400	9.876	ng #	5
58) Toluene	18.98	91	340819	5.839	ng	100
59) 2-Hexanone	19.38	43	6483	0.167	ng	80
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	4327	0.095	ng	83
63) n-Octane	20.27	57	4269	0.303	ng	97
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.82	91	64984	0.974	ng	100
67) m- & p-Xylenes	22.04	91	164166	3.041	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	18315	0.469	ng	99
70) o-Xylene	22.65	91	73237	1.353	ng	99
71) n-Nonane	22.91	43	31381	0.873	ng	99
72) 1,1,2,2-Tetrachloroethane	22.71	83	1334	0.056	ng #	18
74) Cumene	23.41	105	6785	0.099	ng	97
75) alpha-Pinene	23.90	93	969976	27.681	ng	93
76) n-Propylbenzene	24.05	91	30006	0.349	ng	99
77) 3-Ethyltoluene	24.17	105	73699	1.128	ng	100
78) 4-Ethyltoluene	24.23	105	37801	0.597	ng	100
79) 1,3,5-Trimethylbenzene	24.32	105	29161	0.546	ng	100

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180910.D
 Acq On : 18 Aug 2009 20:46
 Operator : WA
 Sample : P0902721-016 dil (200mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 19 10:11:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration

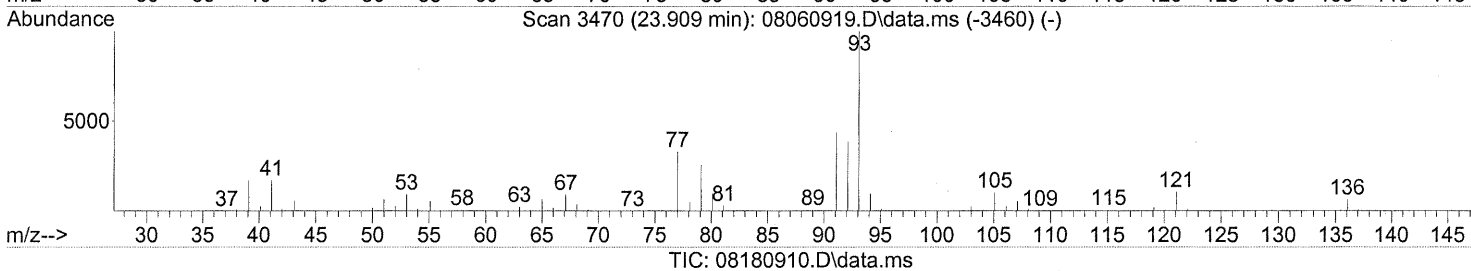
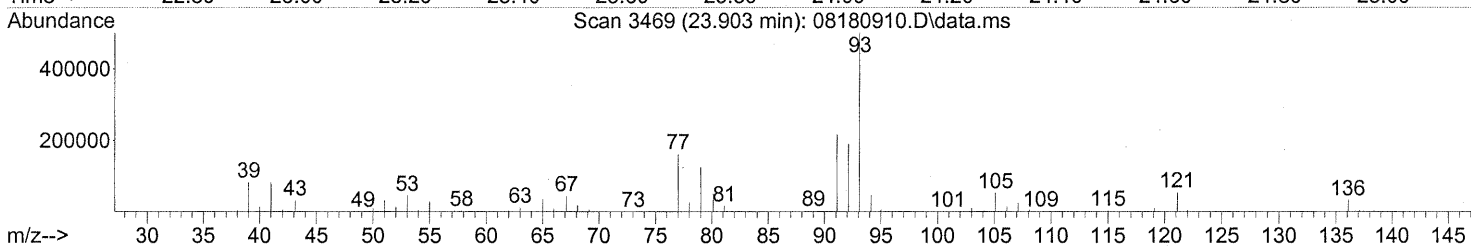
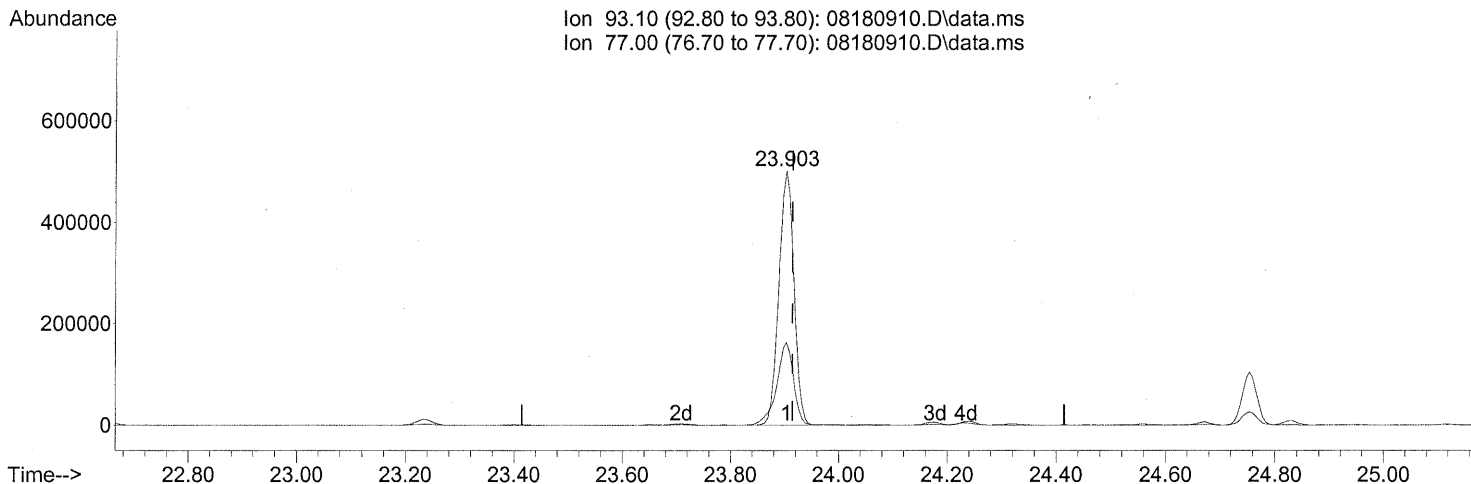
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	491	N.D.		
81) 2-Ethyltoluene	24.56	105	30990	0.470	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	107236	1.970	ng	89
83) n-Decane	24.93	57	104375	2.948	ng	95
84) Benzyl Chloride	25.00	91	118	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	295	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	295	N.D.		
87) sec-Butylbenzene	25.15	105	4211	0.057	ng	94
88) 4-Isopropyltoluene (p-...	25.35	119	62402	0.951	ng	98
89) 1,2,3-Trimethylbenzene	25.35	105	31588	0.569	ng	87
90) 1,2-Dichlorobenzene	25.10	146	295	N.D.		
91) d-Limonene	25.53	68	110005	4.751	ng	95
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	68512	1.819	ng	95
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	13492	0.182	ng	98
96) n-Dodecane	27.69	57	33885	0.774	ng	96
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.33	55	3166	0.131	ng	# 93
99) tert-Butylbenzene	25.27	119	10324	0.196	ng	96
100) n-Butylbenzene	25.86	91	13624	0.225	ng	# 49

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180910.D
 Acq On : 18 Aug 2009 20:46
 Operator : WA
 Sample : P0902721-016 dil (200mL)
 Misc : Env. Health & Engineering 100205
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 19 10:11:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(75) alpha-Pinene (T)
 23.903min (-0.011) 27.68ng
 response 969976

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	36.32
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100206

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-017

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: AC01248

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/17 - 8/18/09

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.56

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	2.0	0.78	1.1	0.45	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.78	0.62	0.16	
74-87-3	Chloromethane	0.86	0.16	0.42	0.076	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.78	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.061	
106-99-0	1,3-Butadiene	ND	0.16	ND	0.071	
74-83-9	Bromomethane	0.38	0.16	0.097	0.040	
75-00-3	Chloroethane	ND	0.16	ND	0.059	
64-17-5	Ethanol	69	7.8	37	4.1	
75-05-8	Acetonitrile	250	0.78	150	0.46	E
107-02-8	Acrolein	8.3	0.78	3.6	0.34	
67-64-1	Acetone	150	7.8	61	3.3	
75-69-4	Trichlorofluoromethane	1.5	0.16	0.27	0.028	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.7	0.78	2.3	0.32	
107-13-1	Acrylonitrile	ND	0.78	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.039	
75-09-2	Methylene Chloride	2.1	0.78	0.60	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.050	
76-13-1	Trichlorotrifluoroethane	0.69	0.16	0.090	0.020	
75-15-0	Carbon Disulfide	3.5	0.78	1.1	0.25	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.039	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	ND	0.043	
108-05-4	Vinyl Acetate	ND	7.8	ND	2.2	
78-93-3	2-Butanone (MEK)	9.1	0.78	3.1	0.26	

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.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100206

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-017

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/7/09

Analyst: Wida Ang

Date Analyzed: 8/17 - 8/18/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.20 Liter(s)

Container ID: AC01248

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.56

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.039	
141-78-6	Ethyl Acetate	ND	0.78	ND	0.22	
110-54-3	n-Hexane	7.5	0.78	2.1	0.22	
67-66-3	Chloroform	0.29	0.16	0.060	0.032	
109-99-9	Tetrahydrofuran (THF)	1.5	0.78	0.50	0.26	
107-06-2	1,2-Dichloroethane	ND	0.16	ND	0.039	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.029	
71-43-2	Benzene	5.7	0.16	1.8	0.049	
56-23-5	Carbon Tetrachloride	0.58	0.16	0.093	0.025	
110-82-7	Cyclohexane	1.5	0.78	0.43	0.23	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.034	
75-27-4	Bromodichloromethane	ND	0.16	ND	0.023	
79-01-6	Trichloroethene	ND	0.16	ND	0.029	
123-91-1	1,4-Dioxane	ND	0.78	ND	0.22	
80-62-6	Methyl Methacrylate	ND	0.78	ND	0.19	
142-82-5	n-Heptane	6.0	0.78	1.5	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	0.78	ND	0.17	
108-10-1	4-Methyl-2-pentanone	1.8	0.78	0.44	0.19	
10061-02-6	trans-1,3-Dichloropropene	ND	0.78	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.029	
108-88-3	Toluene	54	0.78	14	0.21	
591-78-6	2-Hexanone	1.5	0.78	0.38	0.19	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.020	
123-86-4	n-Butyl Acetate	ND	0.78	ND	0.16	

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: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100206
Client Project ID: 16512

CAS Project ID: P0902721
CAS Sample ID: P0902721-017

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: AC01248

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17 - 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	2.8	0.78	0.60	0.17	
127-18-4	Tetrachloroethene	ND	0.16	ND	0.023	
108-90-7	Chlorobenzene	ND	0.16	ND	0.034	
100-41-4	Ethylbenzene	9.2	0.78	2.1	0.18	
179601-23-1	m,p-Xylenes	29	0.78	6.7	0.18	
75-25-2	Bromoform	ND	0.78	ND	0.075	
100-42-5	Styrene	4.3	0.78	1.0	0.18	
95-47-6	o-Xylene	13	0.78	3.0	0.18	
111-84-2	n-Nonane	8.1	0.78	1.6	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
98-82-8	Cumene	0.97	0.78	0.20	0.16	
80-56-8	alpha-Pinene	190	0.78	35	0.14	D
103-65-1	n-Propylbenzene	3.3	0.78	0.67	0.16	
622-96-8	4-Ethyltoluene	5.5	0.78	1.1	0.16	
108-67-8	1,3,5-Trimethylbenzene	5.2	0.78	1.1	0.16	
95-63-6	1,2,4-Trimethylbenzene	19	0.78	3.9	0.16	
100-44-7	Benzyl Chloride	ND	0.16	ND	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.16	ND	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.16	ND	0.026	
5989-27-5	d-Limonene	29	0.78	5.3	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.78	ND	0.081	
120-82-1	1,2,4-Trichlorobenzene	ND	0.78	ND	0.11	
91-20-3	Naphthalene	1.5	0.78	0.29	0.15	
87-68-3	Hexachlorobutadiene	ND	0.78	ND	0.073	

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.

D = The reported result is from a dilution.

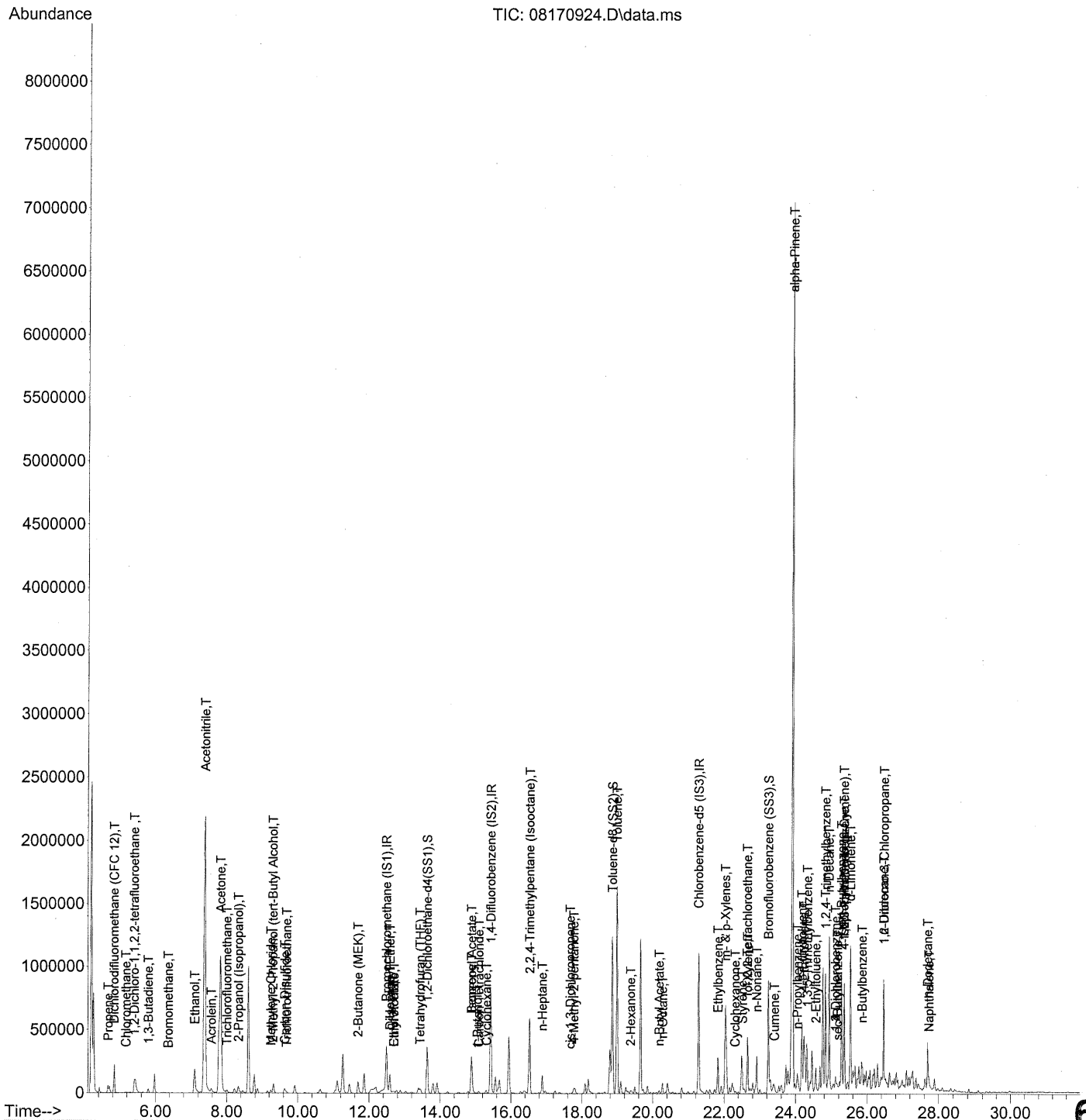
Verified By: _____

Date: 8/24/09

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 20 11:43:38 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
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 Misc : Env. Health & Engineering 100206 ✓
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Quant Time: Aug 20 11:43:38 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

in 8/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	190298	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	952791	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	461641	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	371590	22.466	ng	-0.03
Spiked Amount	25.000		Recovery	=	89.88%	✓
57) Toluene-d8 (SS2)	18.85	98	1056908	26.202	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.80%	✓
73) Bromofluorobenzene (SS3)	23.24	174	284569	26.752	ng	0.00
Spiked Amount	25.000		Recovery	=	107.00%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	16464m	1.261	ng	
3) Dichlorodifluoromethan...	4.84	85	41667	1.952	ng	99
4) Chloromethane	5.17	50	7894	0.550	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	503	0.058	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.79	54	542	0.055	ng	# 1
8) Bromomethane	6.37	94	2019	0.241	ng	96
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.10	45	367624	44.412	ng	100
11) Acetonitrile	7.39	41	3921927	161.786	ng	E 100
12) Acrolein	7.57	56	33350	5.293	ng	98
13) Acetone	7.83	58	726865	93.067	ng	93
14) Trichlorofluoromethane	8.01	101	18874	0.978	ng	99
15) 2-Propanol (Isopropanol)	8.33	45	112804	3.675	ng	96
16) Acrylonitrile	0.00	53	0	N.D. d		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	7388	0.271	ng	# 1
19) Methylene Chloride	9.25	84	14083	1.343	ng	96
20) 3-Chloro-1-propene (Al...	9.42	41	209	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3099	0.442	ng	94
22) Carbon Disulfide	9.63	76	83549	2.259	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	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D. d		
27) 2-Butanone (MEK)	11.68	72	41217	5.845	ng	93
28) cis-1,2-Dichloroethene	12.19	61	305	N.D.		
29) Diisopropyl Ether	12.58	87	929	0.098	ng	# 1
30) Ethyl Acetate	12.70	61	1794	0.488	ng	89
31) n-Hexane	12.58	57	90774	4.830	ng	9699

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 20 11:43:38 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	3122	0.189 ng		92
34) Tetrahydrofuran (THF)	13.43	72	7104	0.945 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D. d		
38) 1,1,1-Trichloroethane	14.18	97	91	N.D.		
39) Isopropyl Acetate	14.88	61	840	0.119 ng	#	1
40) 1-Butanol	15.04	56	885	0.072 ng	#	3
41) Benzene	14.88	78	154190	3.681 ng		99
42) Carbon Tetrachloride	15.09	117	4978	0.373 ng		96
43) Cyclohexane	15.30	84	14394	0.938 ng		92
44) tert-Amyl Methyl Ether	16.07	73	122	N.D.		
45) 1,2-Dichloropropane	15.94	63	285	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.55	88	303	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	717479	14.541 ng		99
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.88	71	43001	3.825 ng		99
52) cis-1,3-Dichloropropene	17.67	75	942	0.054 ng	#	44
53) 4-Methyl-2-pentanone	17.77	58	11736	1.166 ng		98
54) trans-1,3-Dichloropropene	18.37	75	818	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	1380129	34.814 ng		99
59) 2-Hexanone	19.37	43	25955	0.985 ng		89
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	13682	0.440 ng		80
63) n-Octane	20.28	57	17263	1.801 ng		97
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	21.33	112	427	N.D.		
66) Ethylbenzene	21.82	91	266493	5.881 ng		99
67) m- & p-Xylenes	22.04	91	684084	18.661 ng		98
68) Bromoform	22.15	173	101	N.D.		
69) Styrene	22.51	104	73452	2.772 ng		100
70) o-Xylene	22.65	91	306909	8.350 ng		99
71) n-Nonane	22.91	43	127521	5.222 ng		96
72) 1,1,2,2-Tetrachloroethane	22.65	83	842	0.052 ng	#	18
74) Cumene	23.41	105	28797	0.620 ng		99
75) alpha-Pinene	23.91	93	3367791	141.511 ng	see dil	85
76) n-Propylbenzene	24.05	91	123486	2.116 ng		95
77) 3-Ethyltoluene	24.18	105	318103	7.169 ng		99
78) 4-Ethyltoluene	24.23	105	152545	3.548 ng		100
79) 1,3,5-Trimethylbenzene	24.32	105	121301	3.345 ng		99

700

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 20 11:43:38 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

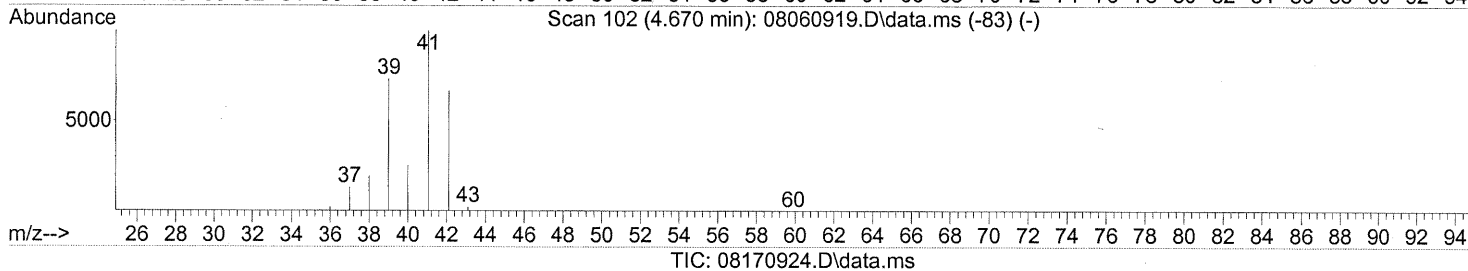
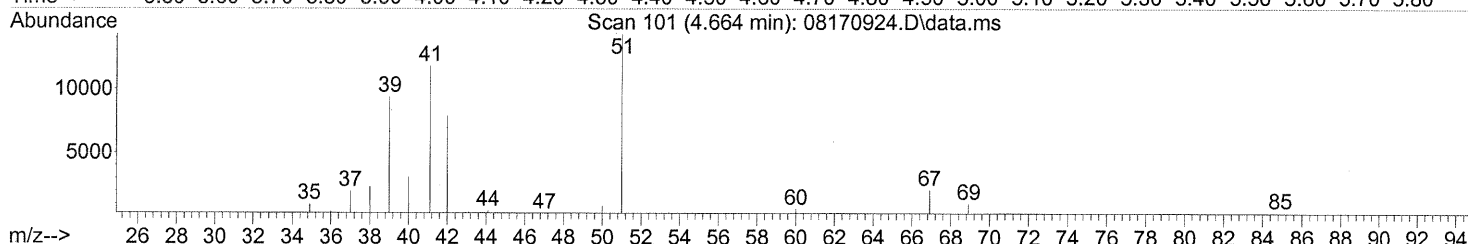
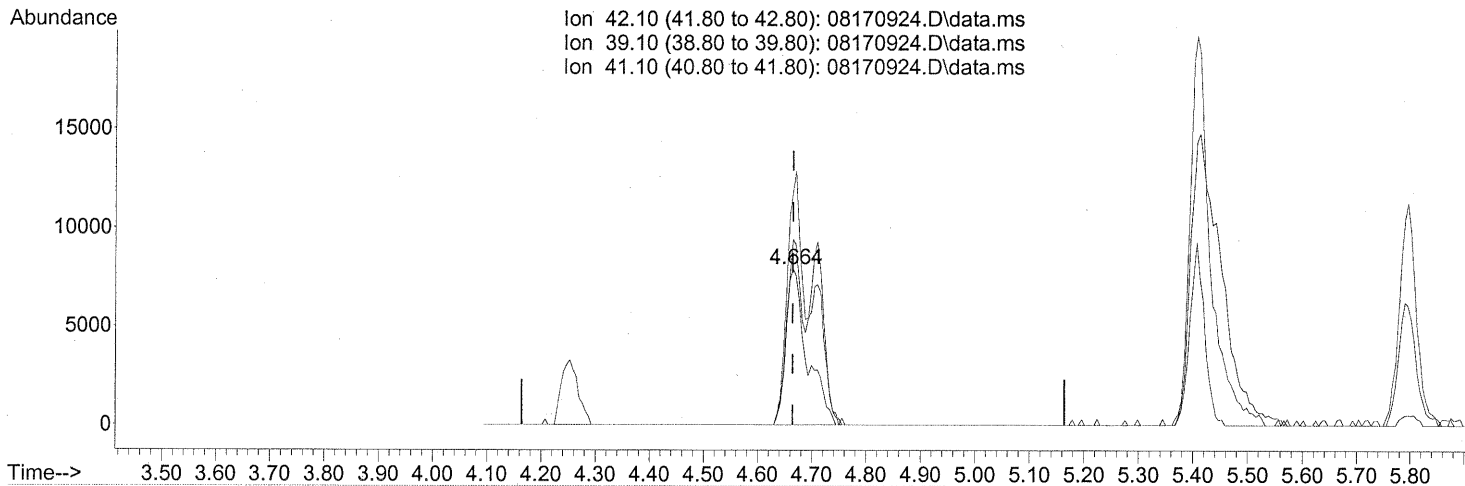
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	825	N.D.		
81) 2-Ethyltoluene	24.56	105	133003	2.973 ng		99
82) 1,2,4-Trimethylbenzene	24.83	105	453082	12.253 ng		90
83) n-Decane	24.93	57	441022	18.343 ng		97
84) Benzyl Chloride	25.02	91	344	N.D.		
85) 1,3-Dichlorobenzene	25.11	146	1124	0.060 ng		99
86) 1,4-Dichlorobenzene	25.11	146	1124	0.056 ng		98
87) sec-Butylbenzene	25.17	105	18200	0.364 ng		98
88) 4-Isopropyltoluene (p-...	25.35	119	244330	5.485 ng		97
89) 1,2,3-Trimethylbenzene	25.35	105	133693	3.549 ng		92
90) 1,2-Dichlorobenzene	25.11	146	1124	0.063 ng		96
91) d-Limonene	25.53	68	294818	18.748 ng		94
92) 1,2-Dibromo-3-Chloropr...	26.46	157	1245	0.204 ng	#	1
93) n-Undecane	26.46	57	293984	11.493 ng		96
94) 1,2,4-Trichlorobenzene	27.58	180	584	N.D.		
95) Naphthalene	27.73	128	49281	0.981 ng		93
96) n-Dodecane	27.69	57	122344	4.117 ng		99
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	10584	0.644 ng	#	84
99) tert-Butylbenzene	25.27	119	35218	0.984 ng		99
100) n-Butylbenzene	25.86	91	55808	1.355 ng	#	50

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 1.64ng

SH

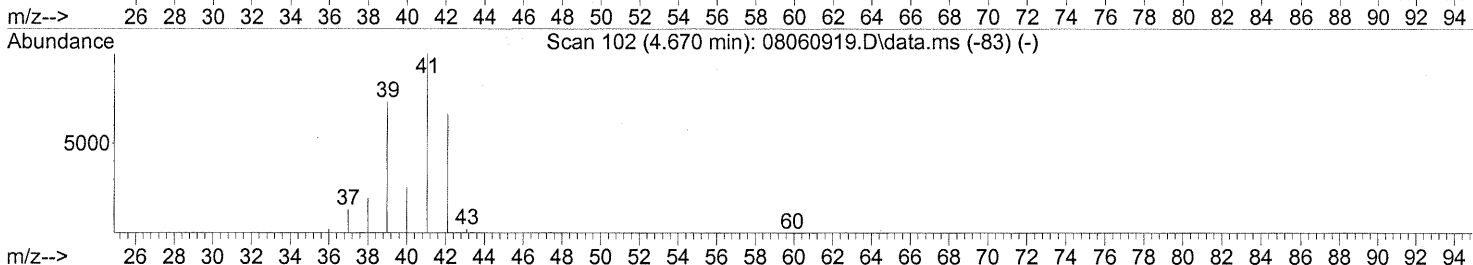
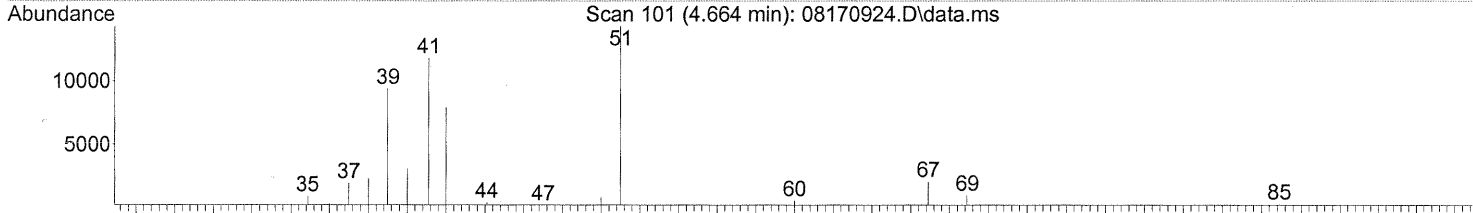
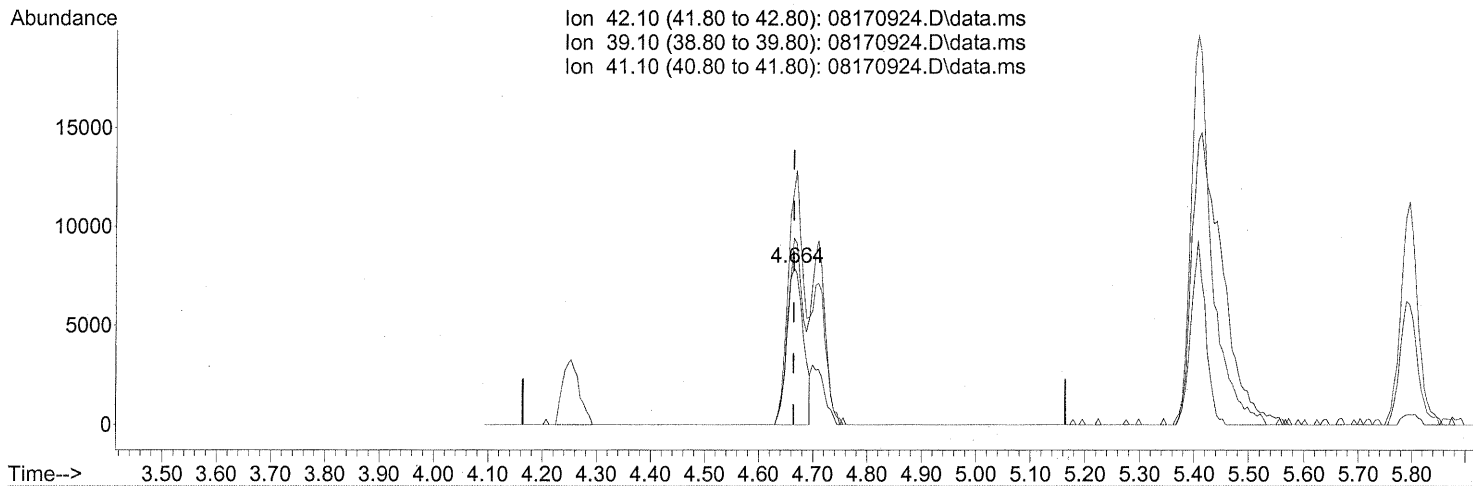
response 21476

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	84.55#
41.10	150.20	178.59#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.664min (+0.000) 1.26ng m
 response 16464

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	110.30
41.10	150.20	232.96#
0.00	0.00	0.00

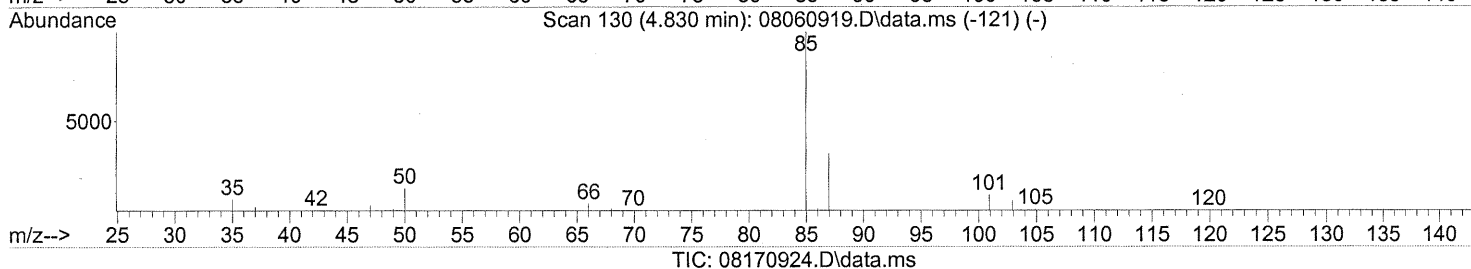
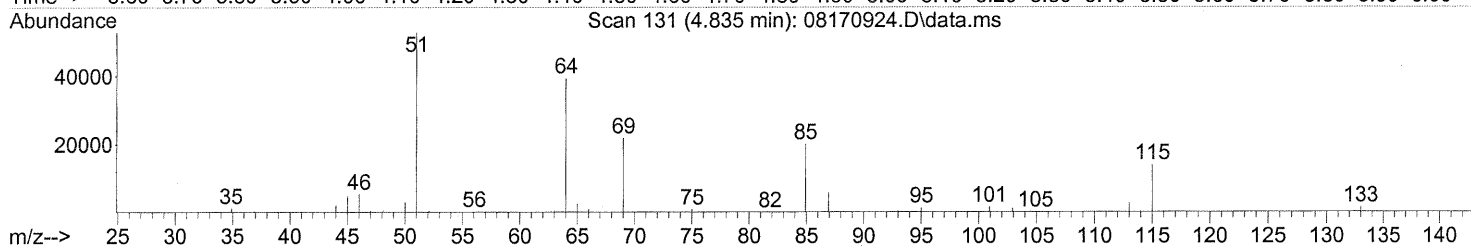
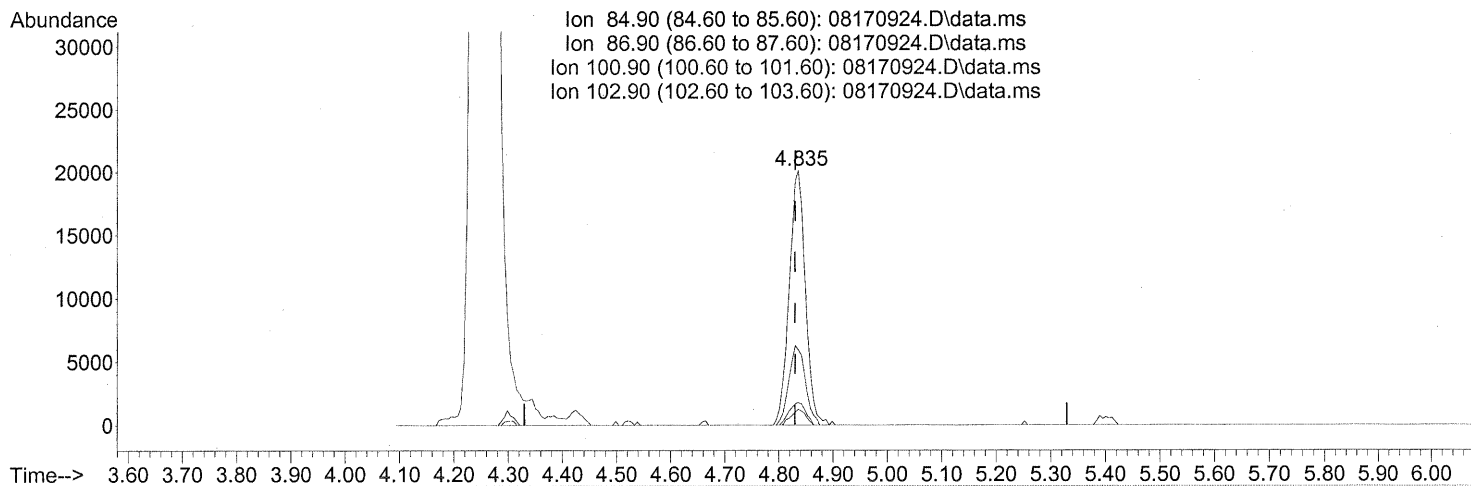
SH → IC
 WH 8/21/09

[Handwritten signature]

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.835min (+0.006) 1.95ng

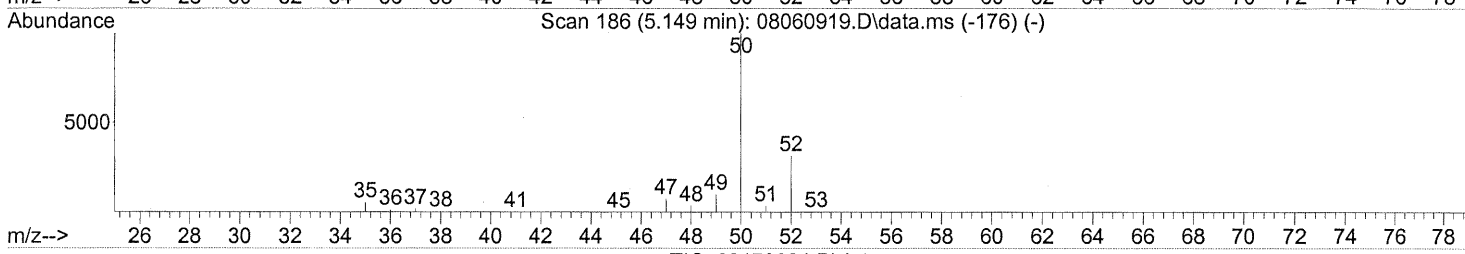
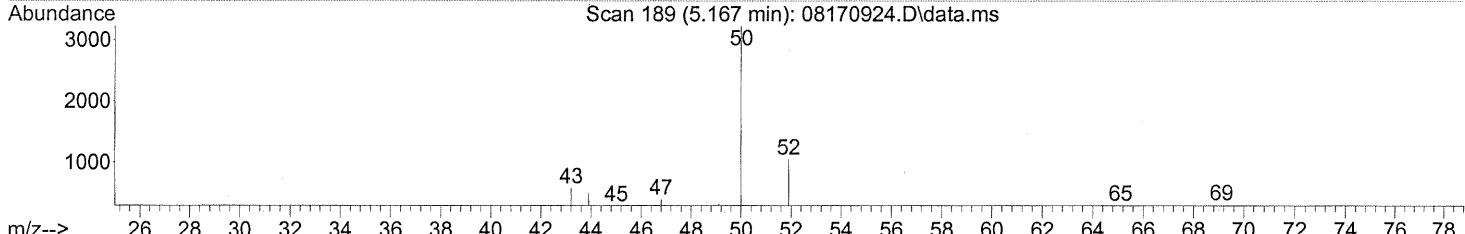
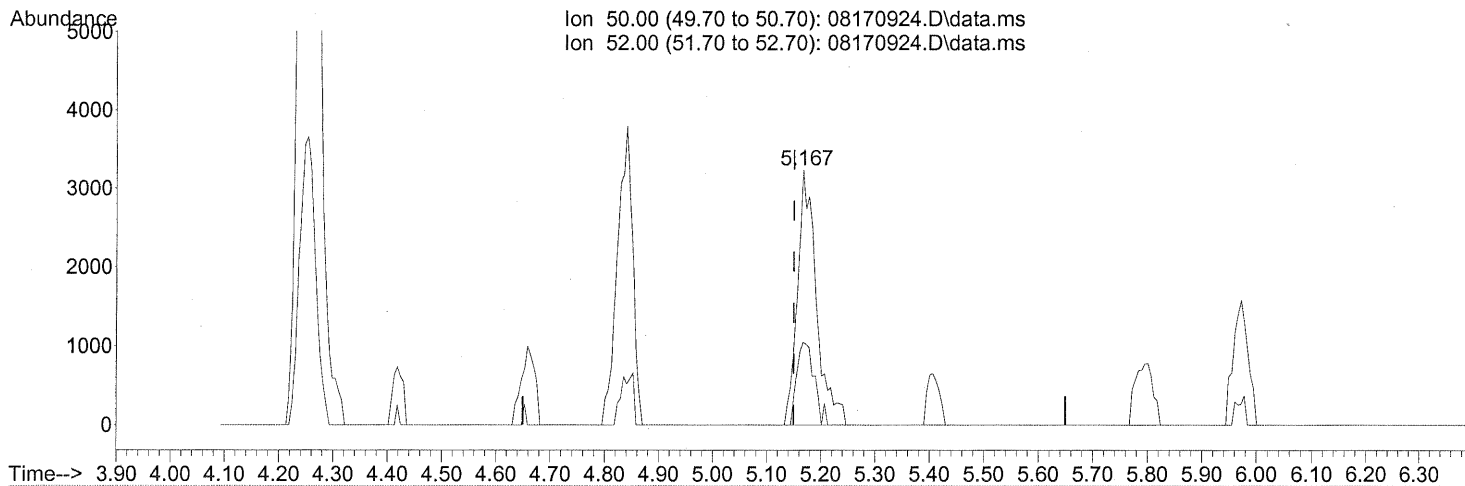
response 41667

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.80
100.90	8.80	9.00
102.90	5.20	5.56

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.167min (+0.017) 0.55ng

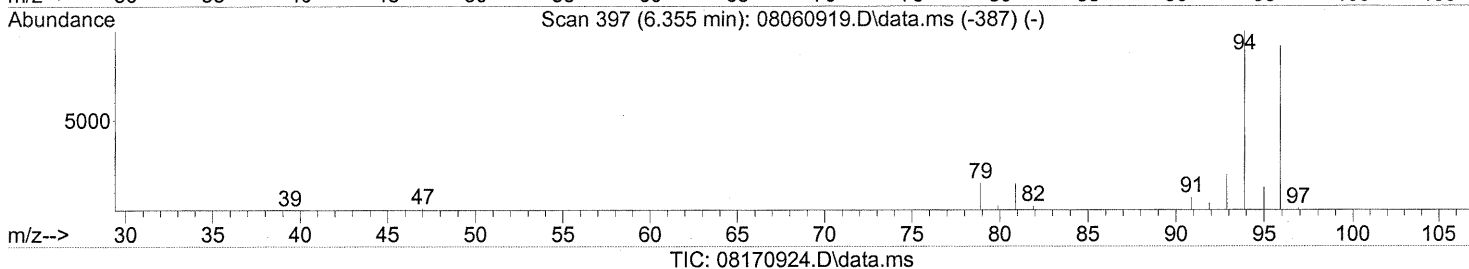
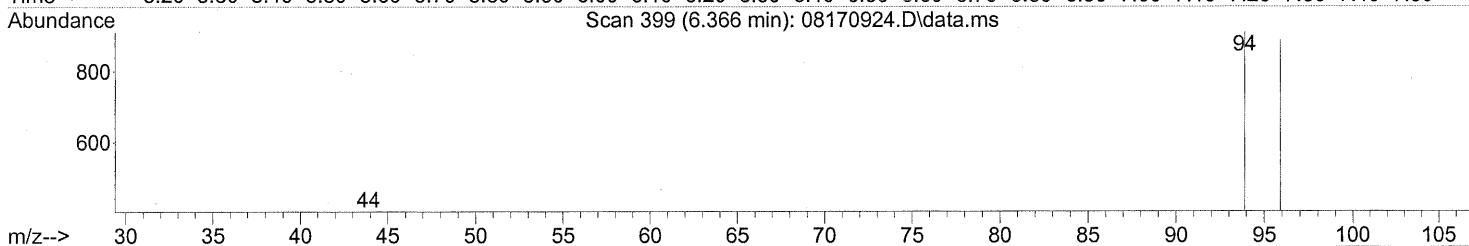
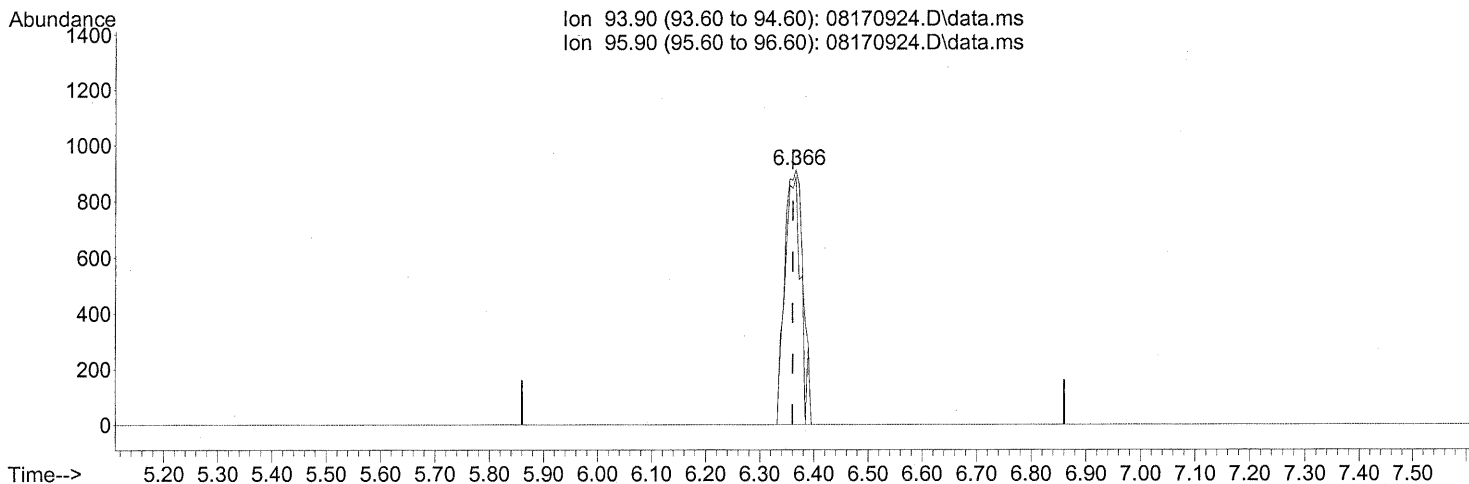
response 7894

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(8) Bromomethane (T)

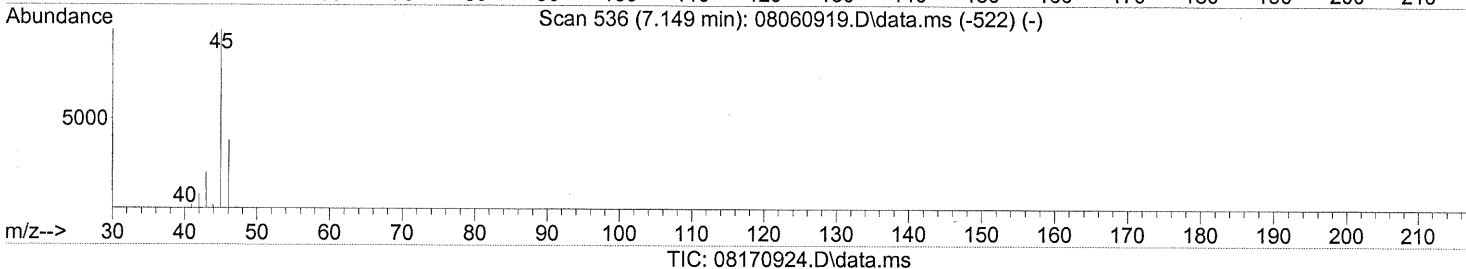
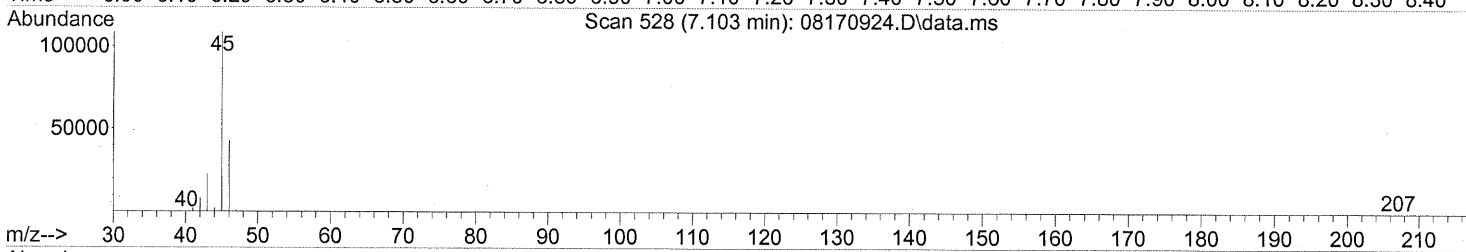
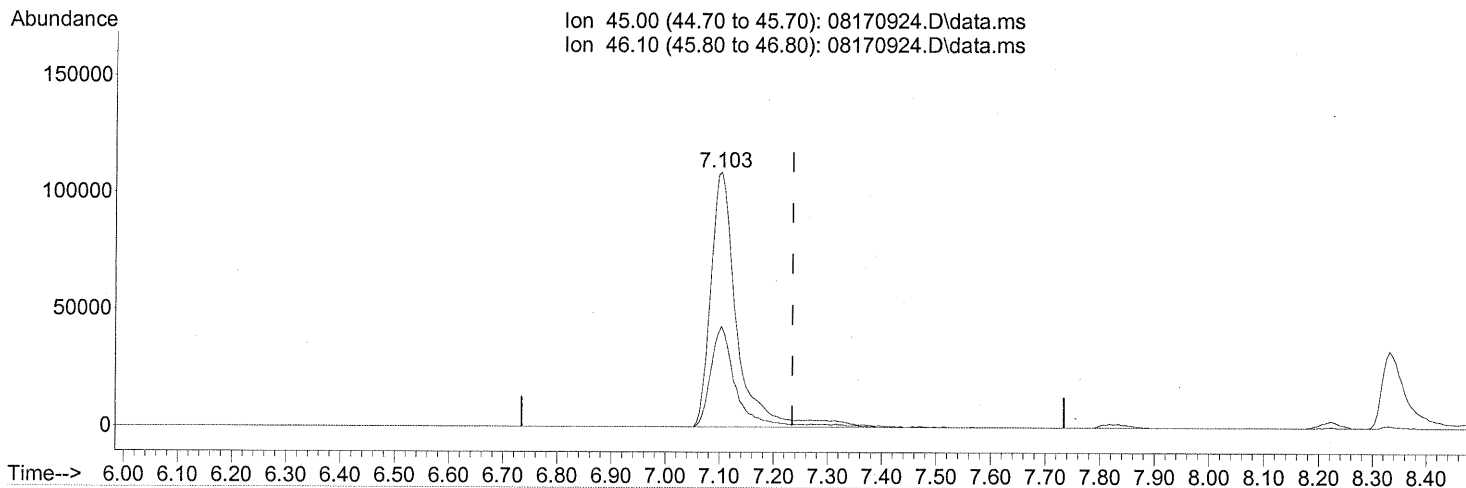
6.366min (+0.006) 0.24ng
 response 2019

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	96.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170924.D
Acq On : 17 Aug 2009 21:28
Operator : WA
Sample : P0902721-017 (1000mL)
Misc : Env. Health & Engineering 100206
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



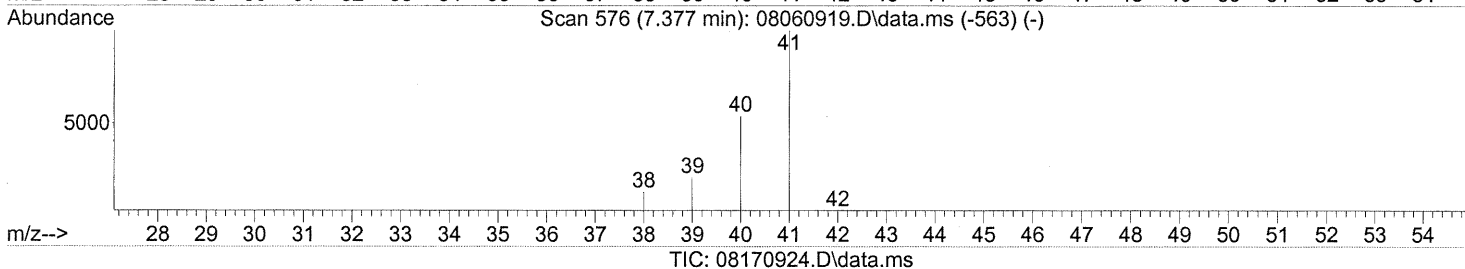
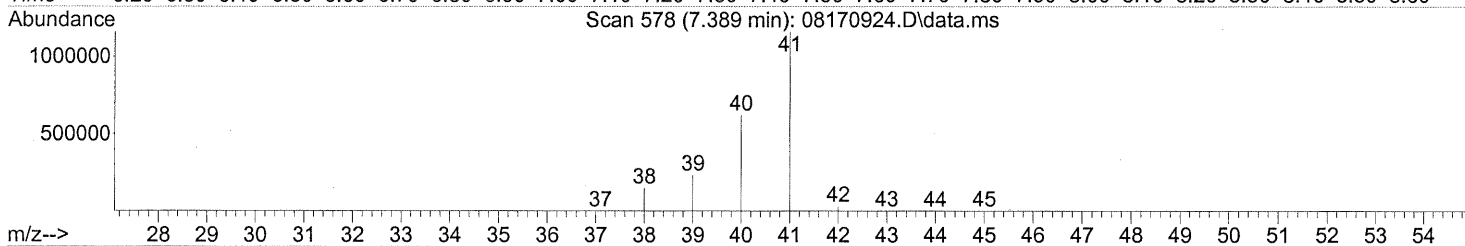
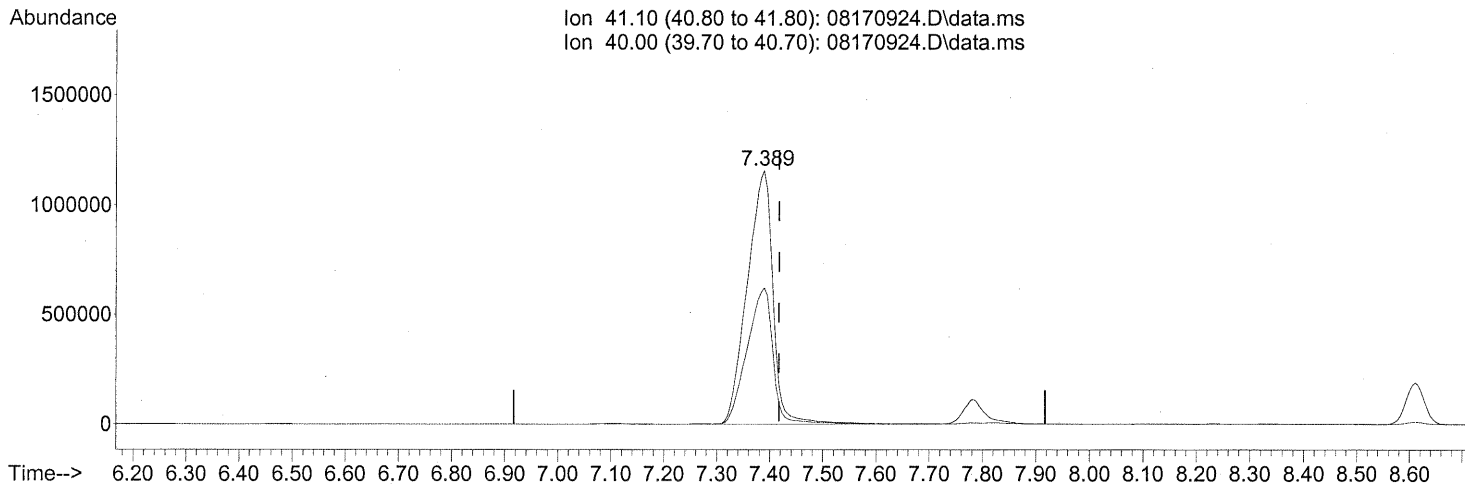
(10) Ethanol (T)
7.103min (-0.131) 44.41ng
response 367624

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.389min (-0.028) 161.79ng *E*

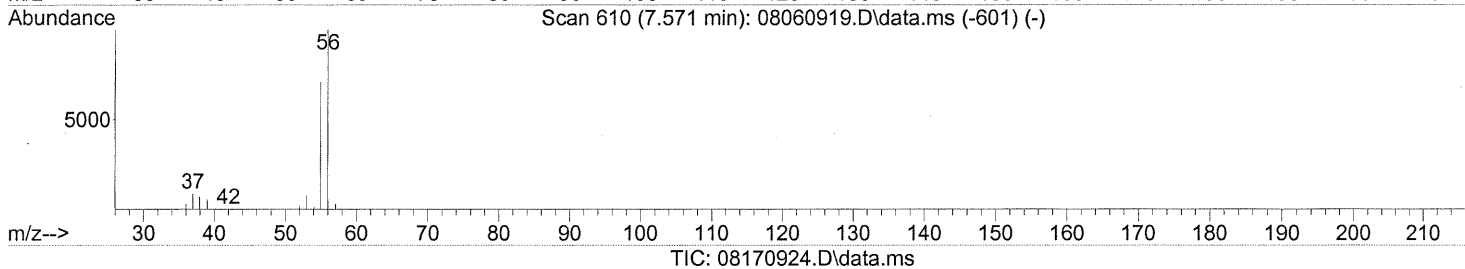
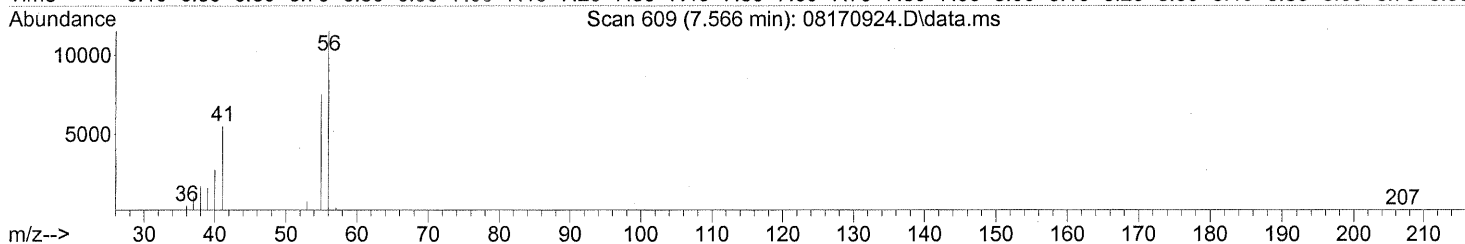
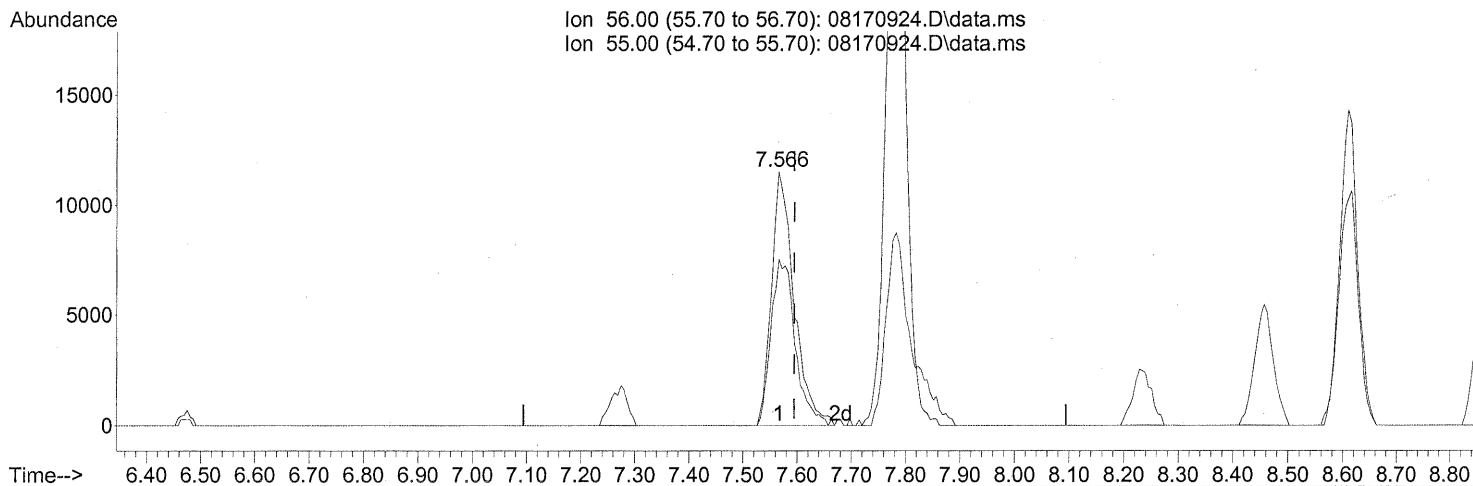
response 3921927

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.566min (-0.028) 5.29ng

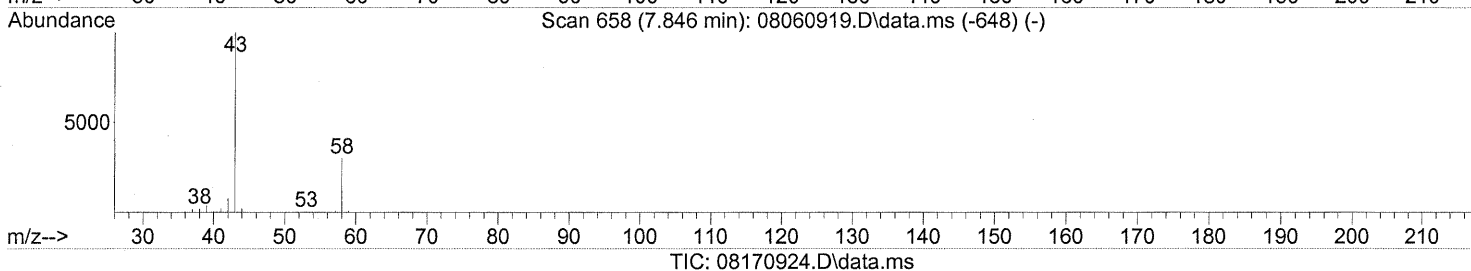
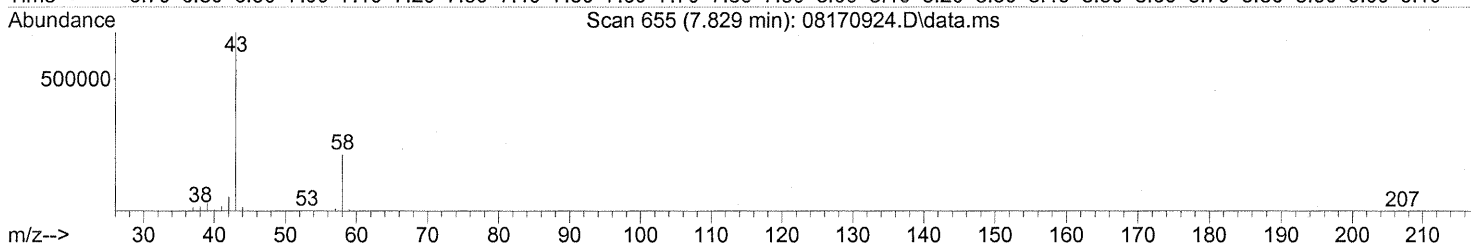
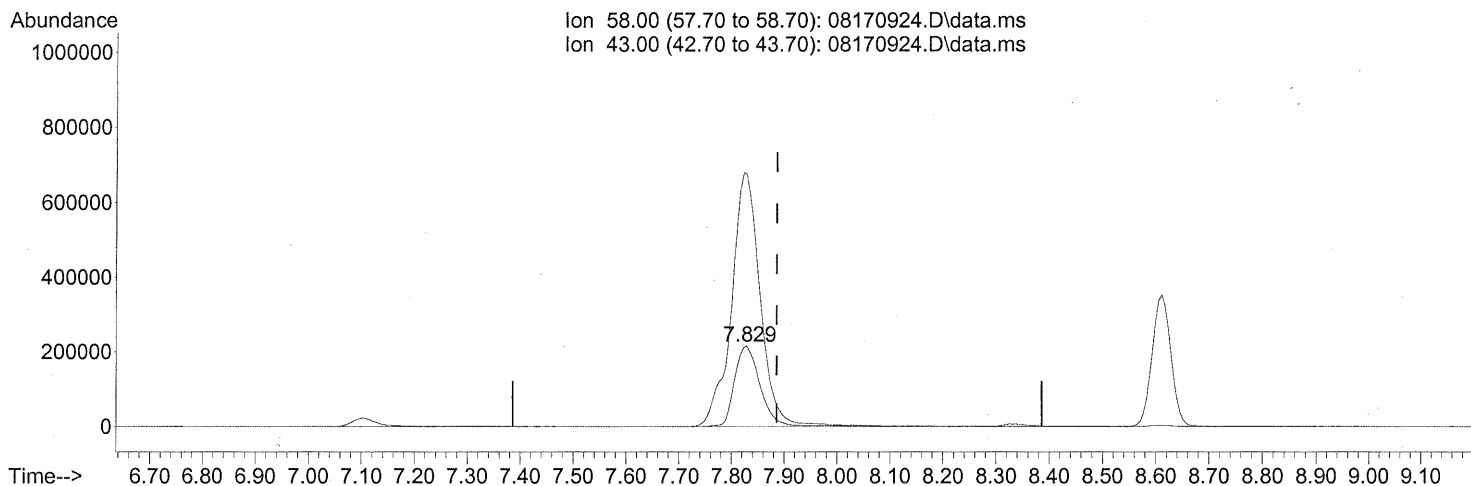
response 33350

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	69.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



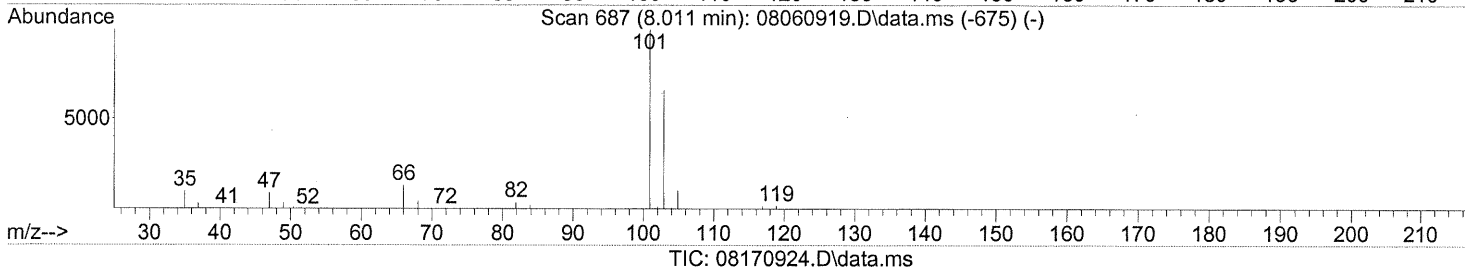
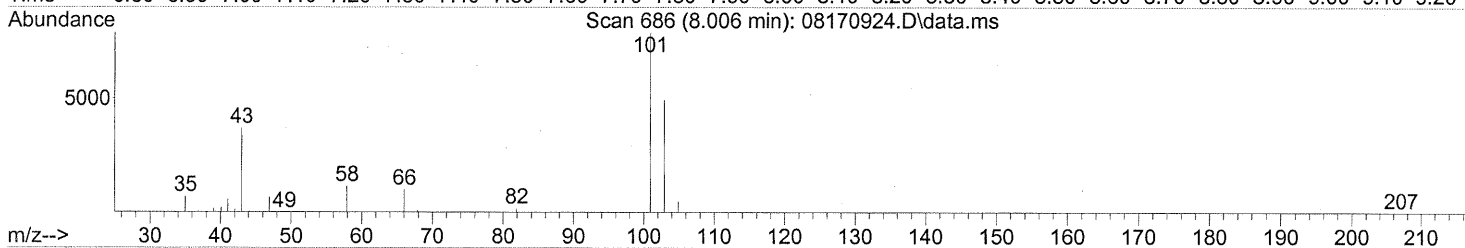
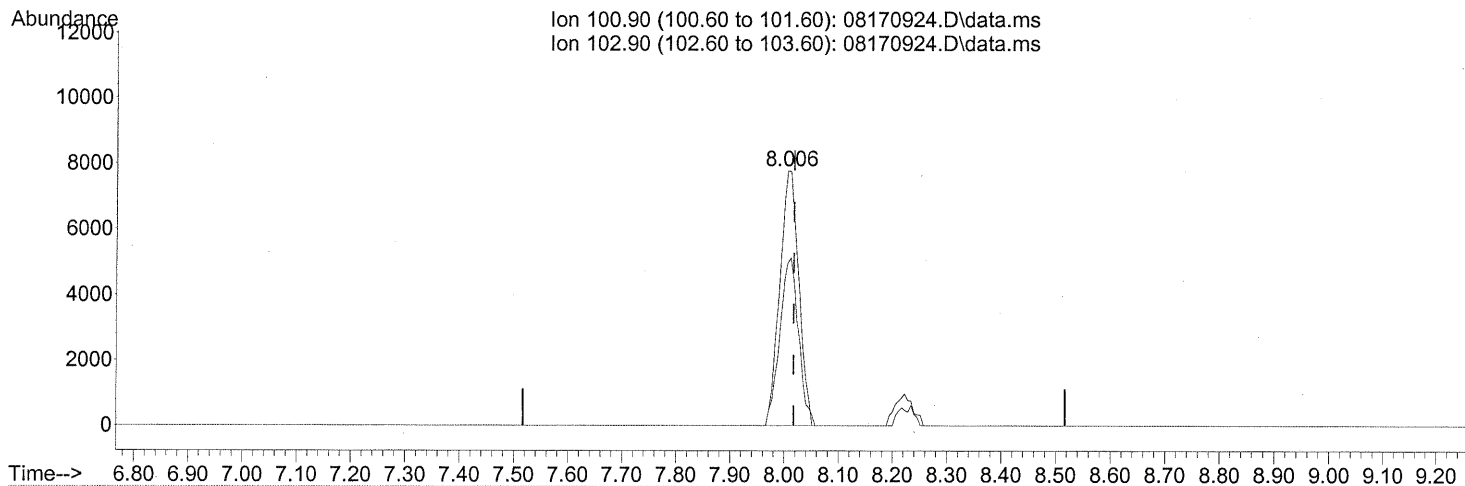
(13) Acetone (T)
 7.829min (-0.058) 93.07ng
 response 726865

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	354.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.006min (-0.011) 0.98ng

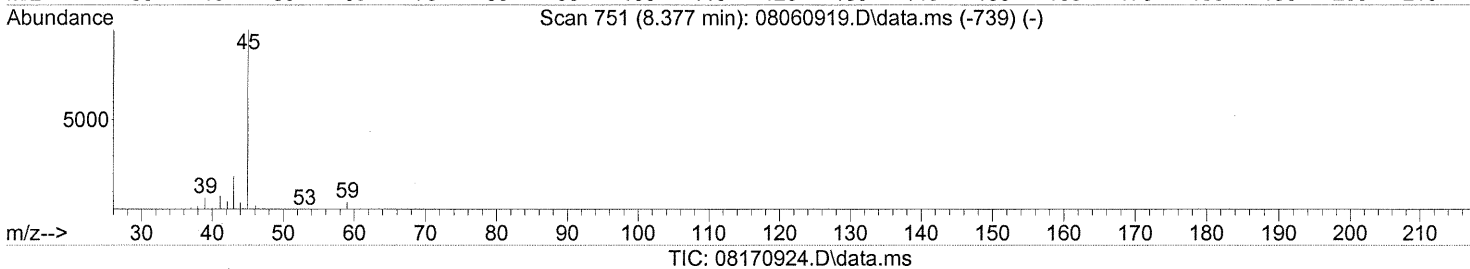
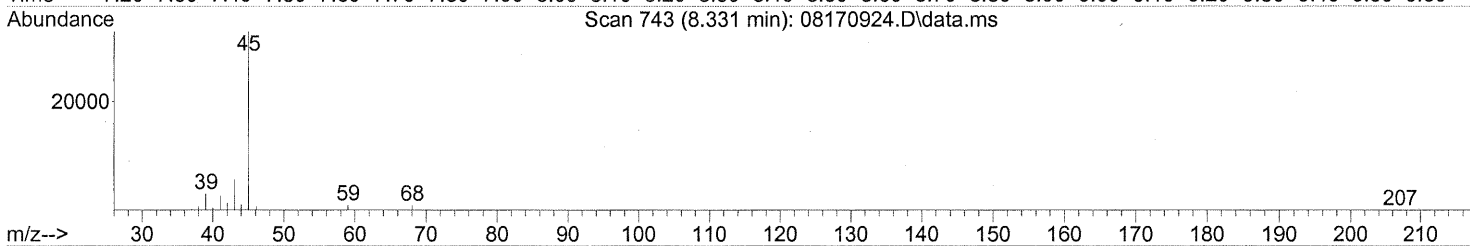
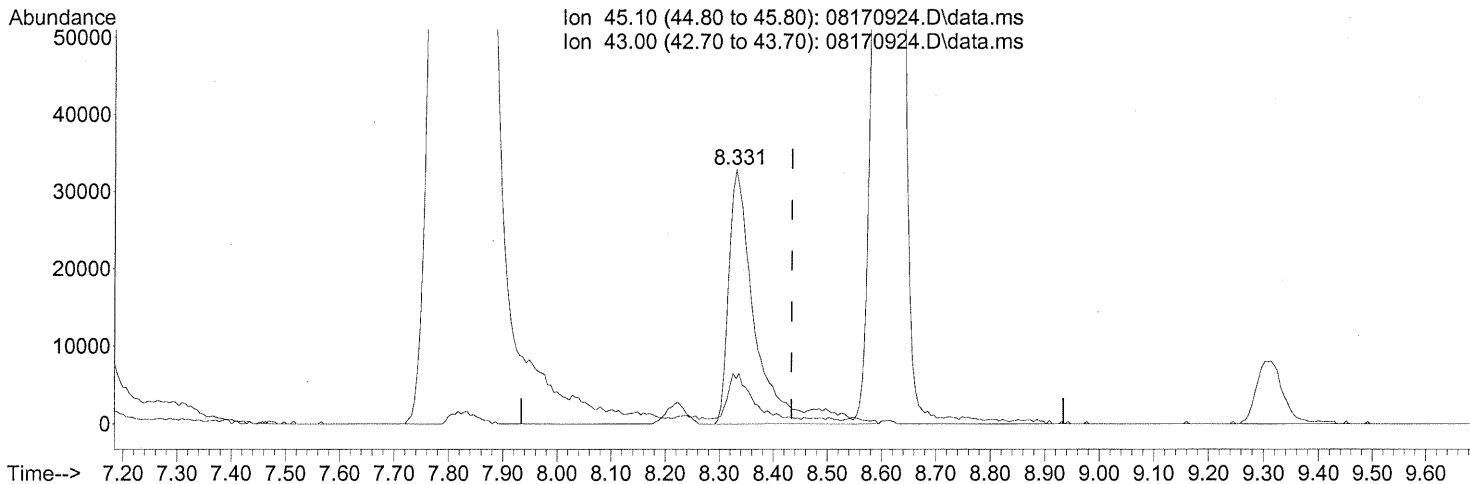
response 18874

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.331min (-0.103) 3.68ng

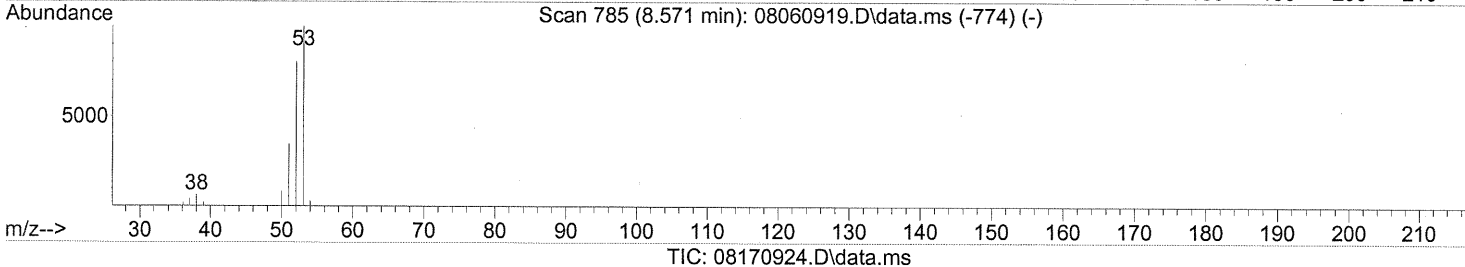
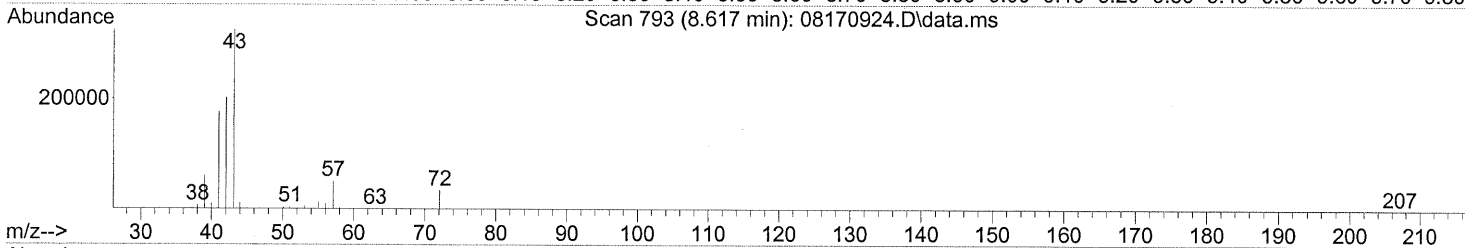
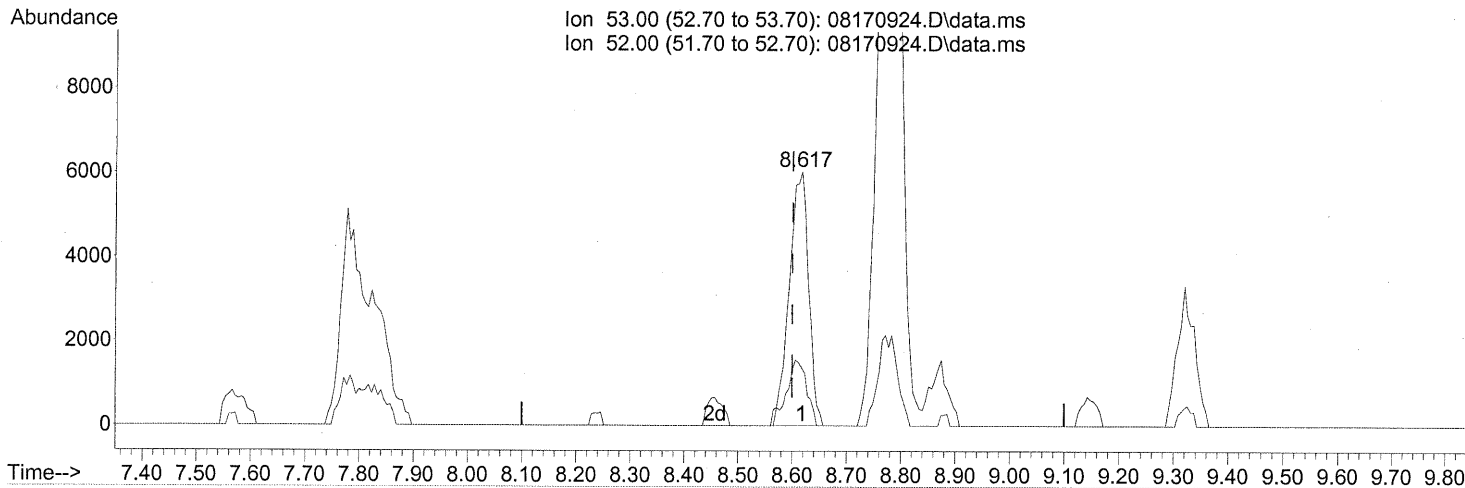
response 112804

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	17.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170924.D
Acq On : 17 Aug 2009 21:28
Operator : WA
Sample : P0902721-017 (1000mL)
Misc : Env. Health & Engineering 100206
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.617min (+0.017) 1.06ng

response 15019

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	26.29#
0.00	0.00	0.00
0.00	0.00	0.00

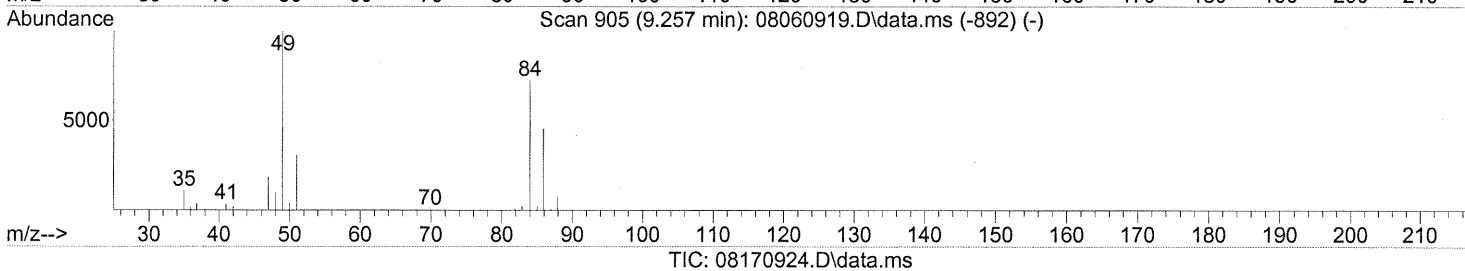
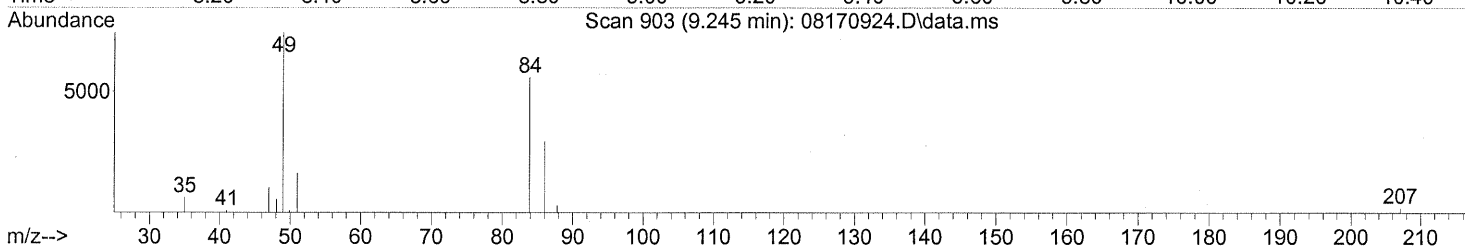
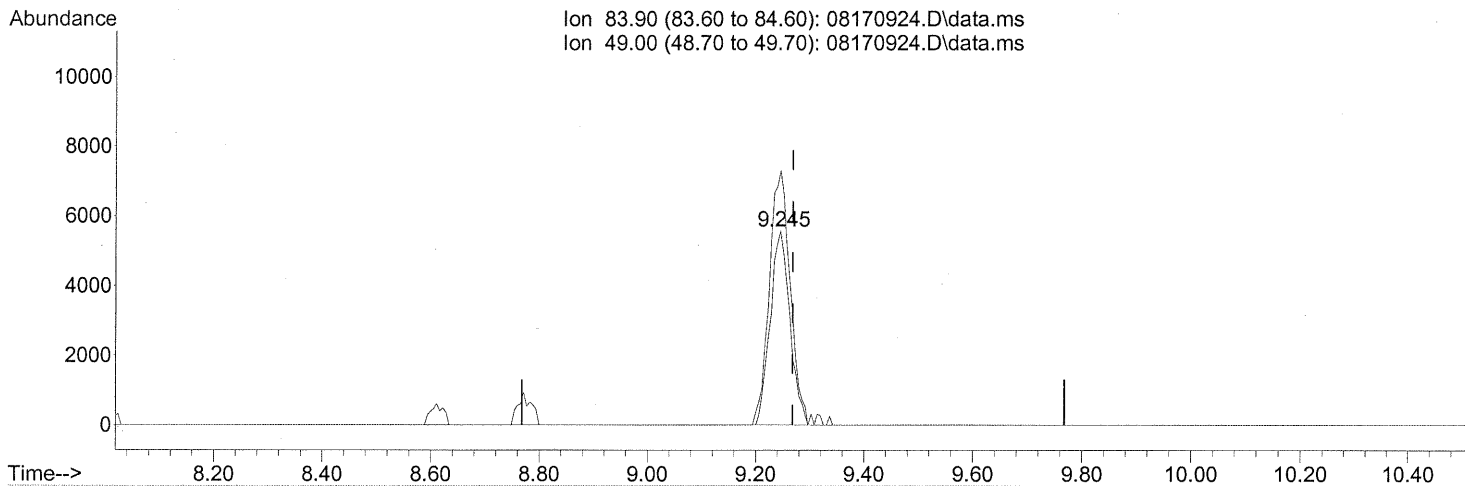
FP UM 8/21/09

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.245min (-0.023) 1.34ng

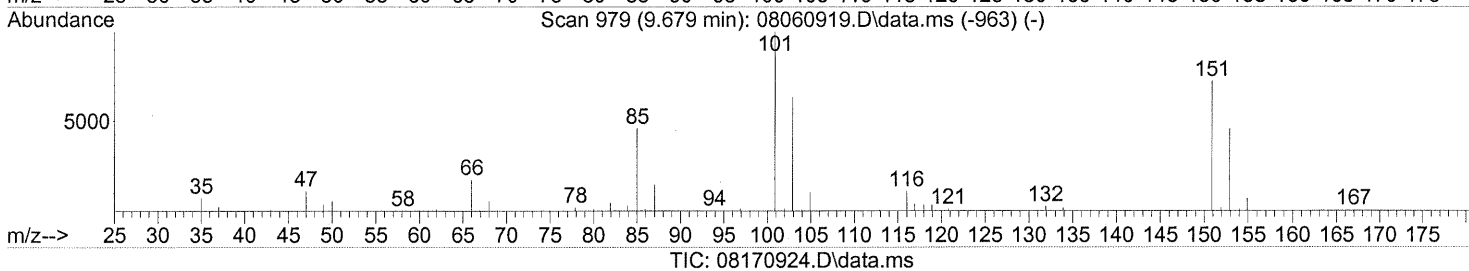
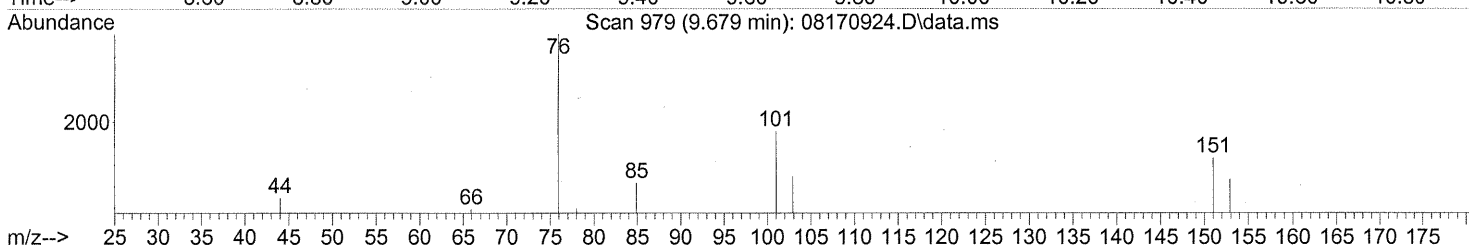
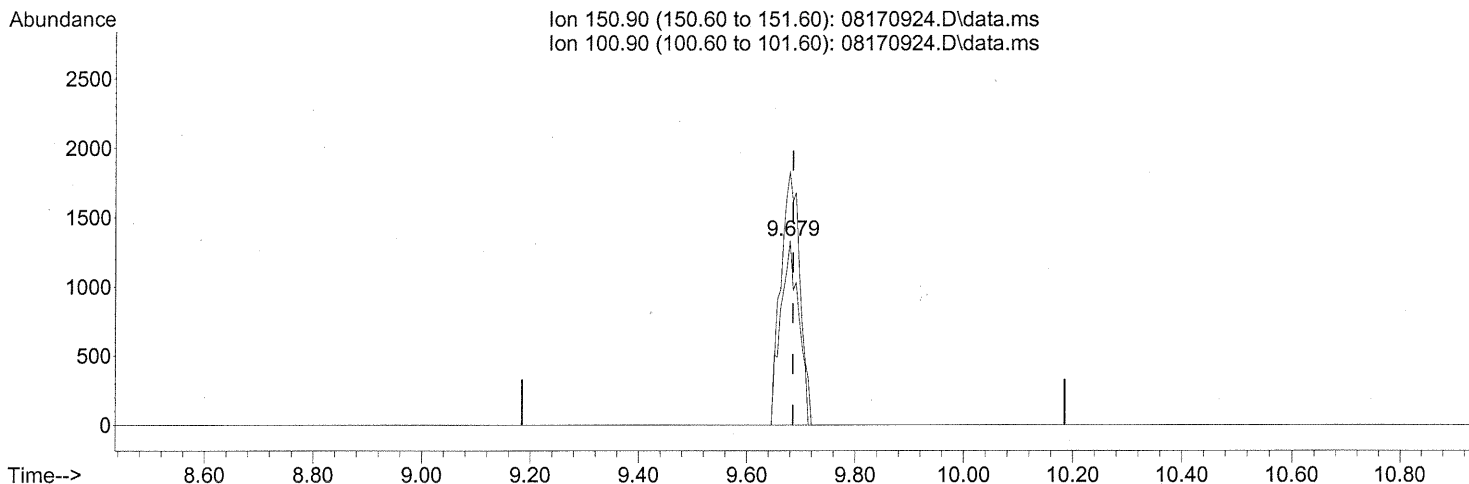
response 14083

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	139.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170924.D
Acq On : 17 Aug 2009 21:28
Operator : WA
Sample : P0902721-017 (1000mL)
Misc : Env. Health & Engineering 100206
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.44ng

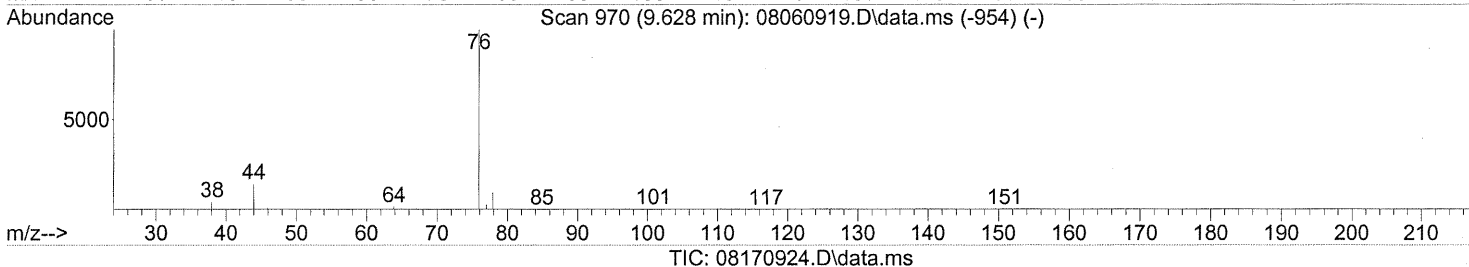
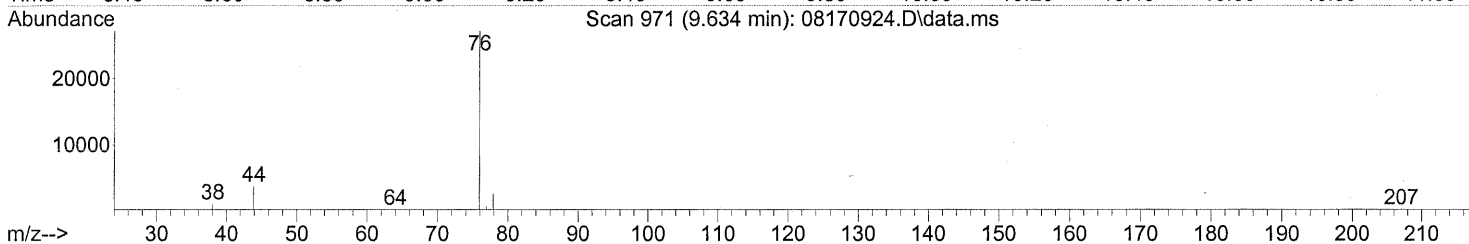
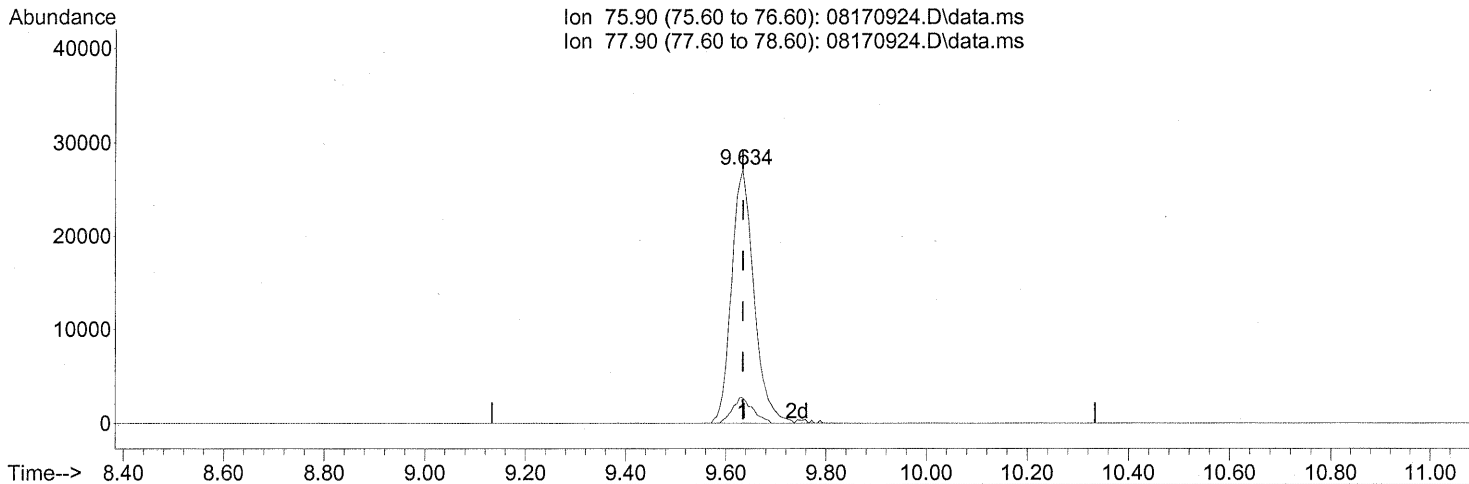
response 3099

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	145.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.634min (+0.000) 2.26ng

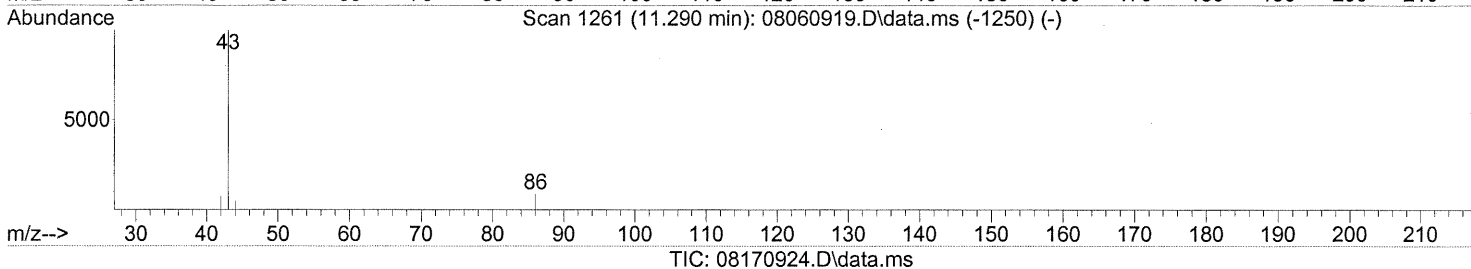
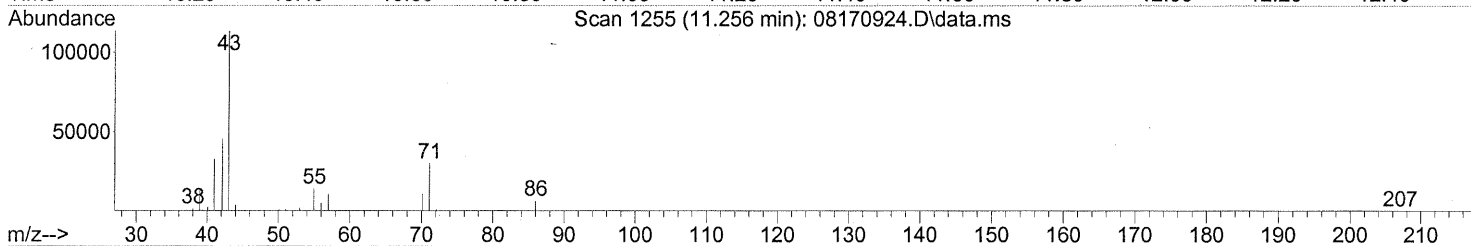
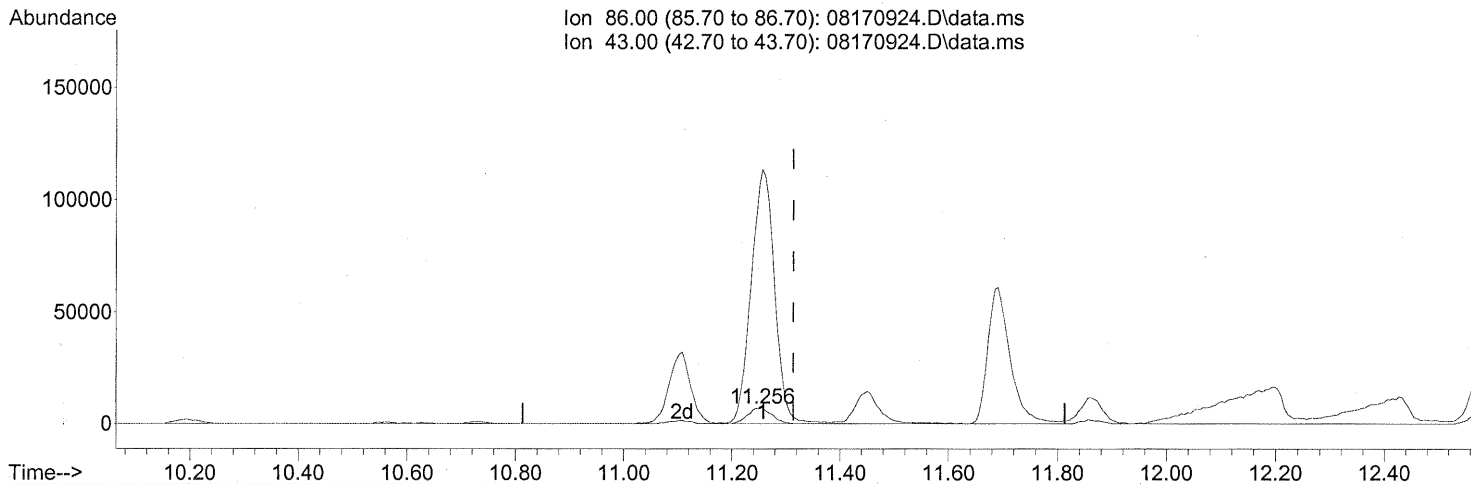
response 83549

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	9.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.256min (-0.057) 13.47ng
 response 21414

FP W 8/21/09

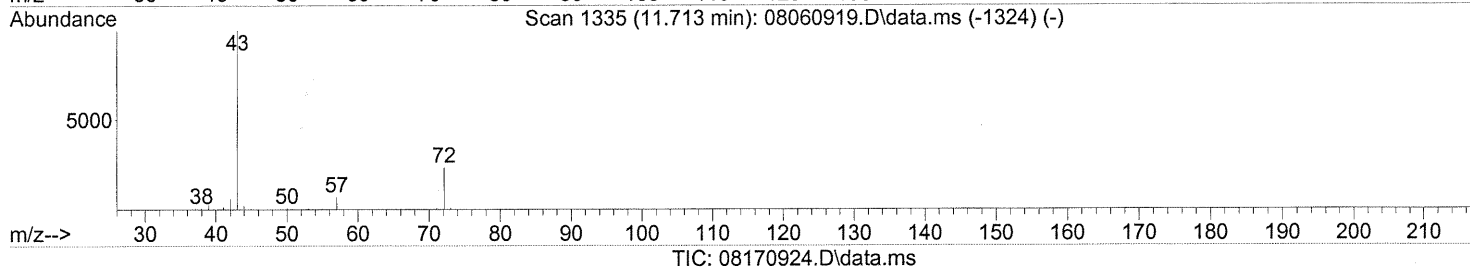
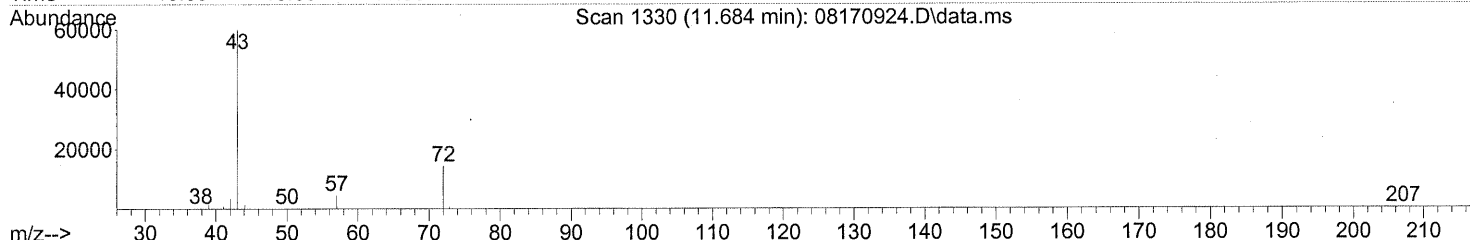
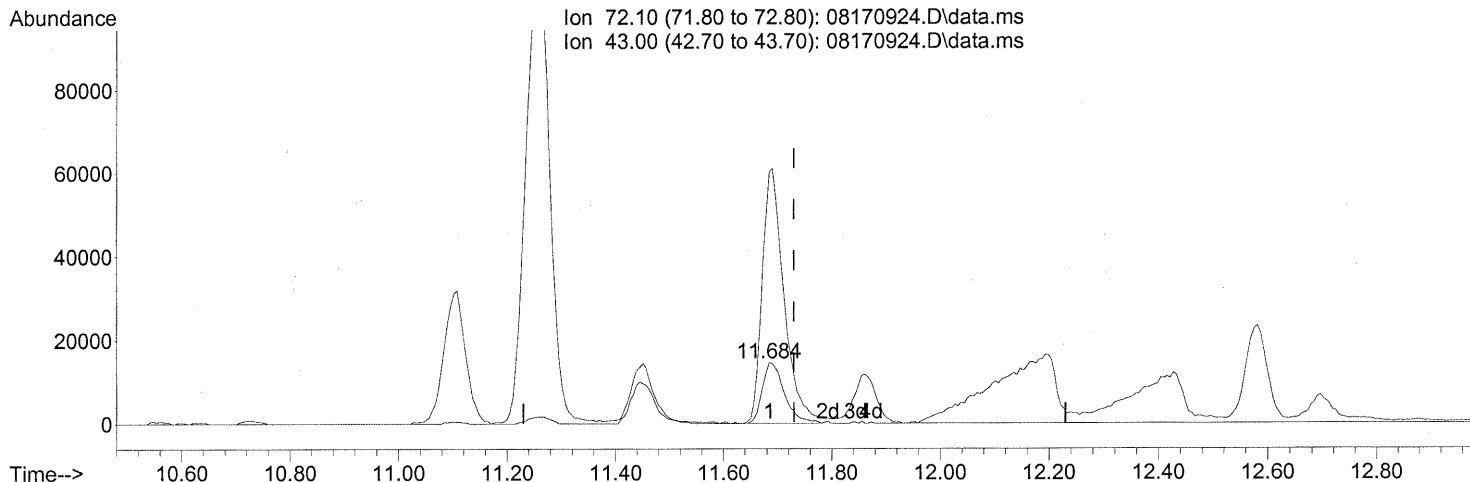
Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1594.27#
0.00	0.00	0.00
0.00	0.00	0.00

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
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 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.684min (-0.046) 5.84ng

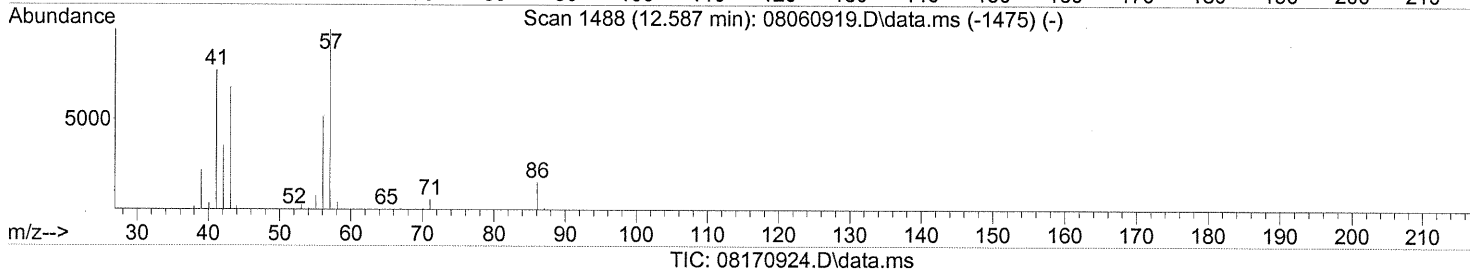
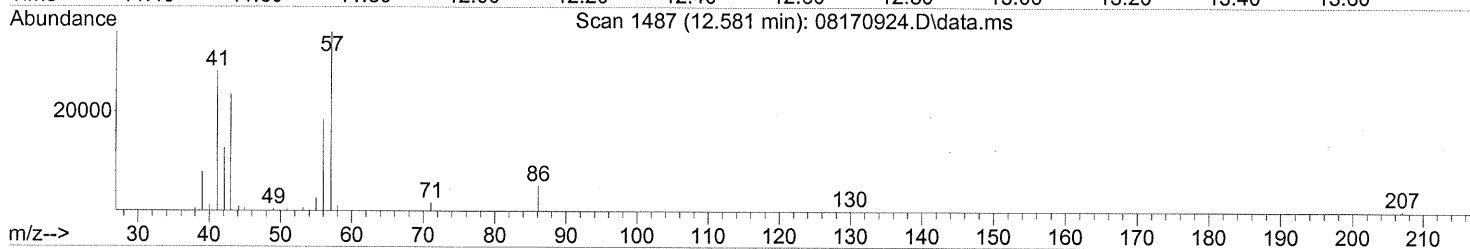
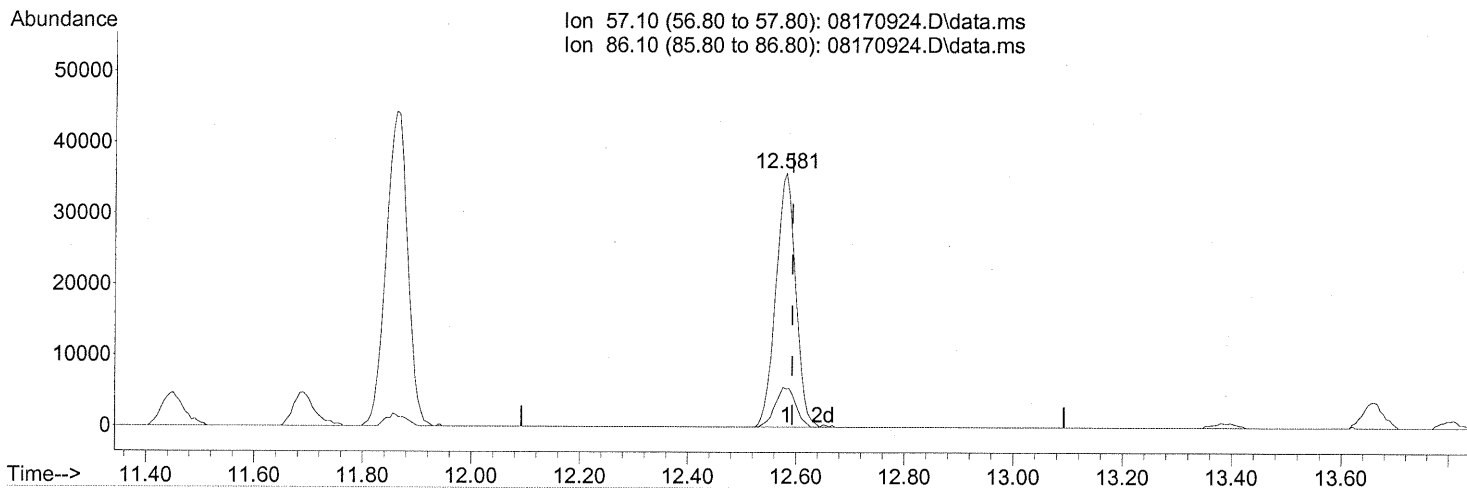
response 41217

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	420.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



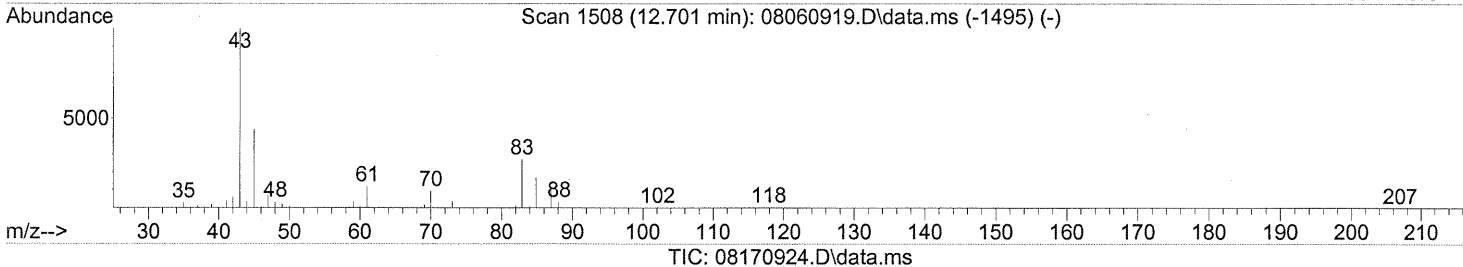
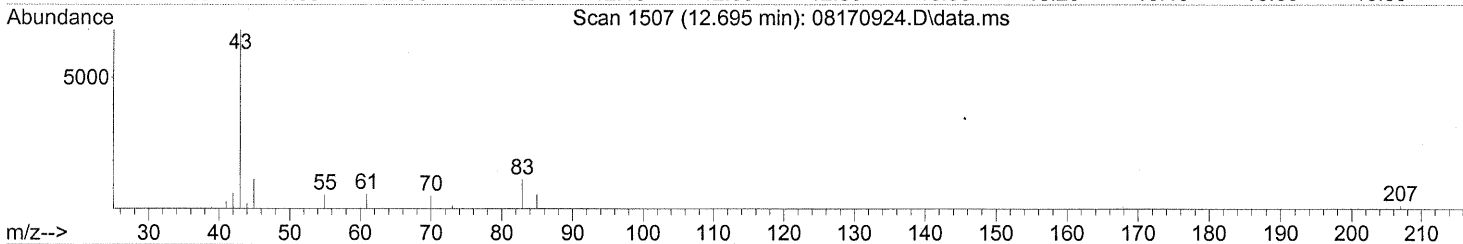
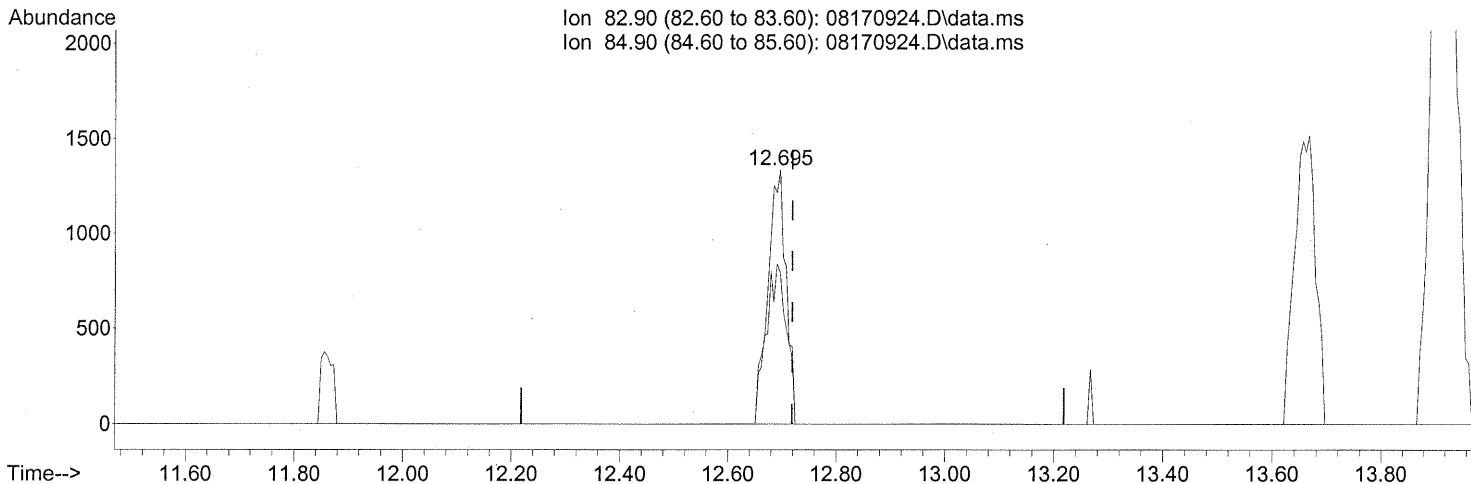
(31) n-Hexane (T)
 12.581min (-0.011) 4.83ng
 response 90774

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	16.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



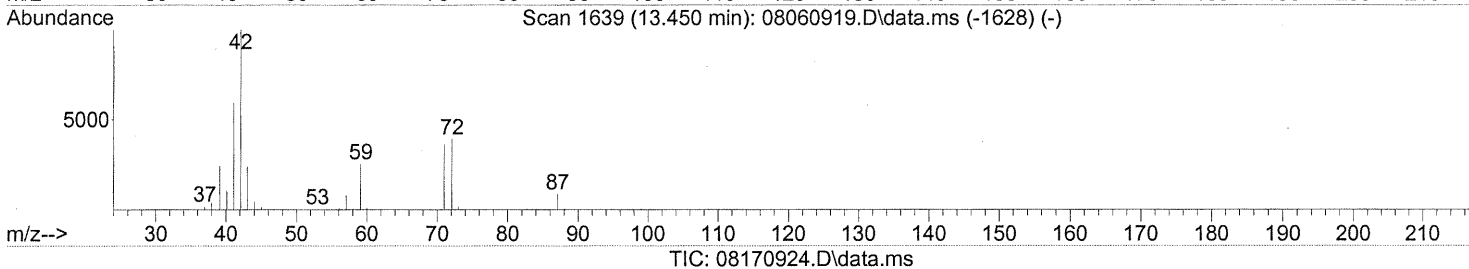
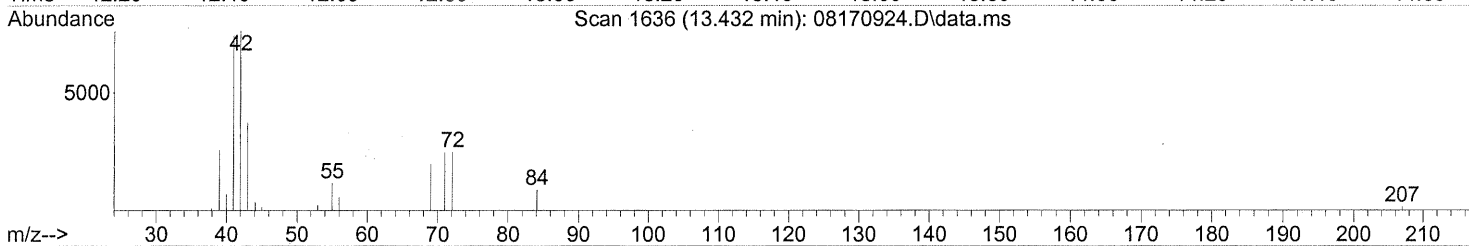
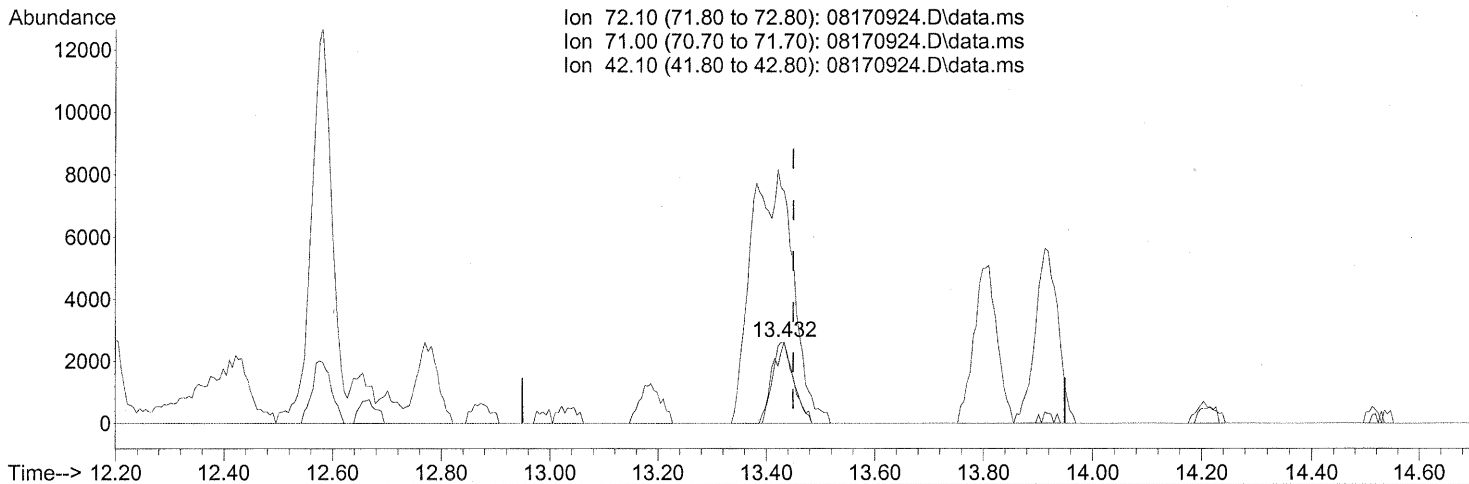
(32) Chloroform (T)
 12.695min (-0.023) 0.19ng
 response 3122

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	70.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.432min (-0.017) 0.95ng

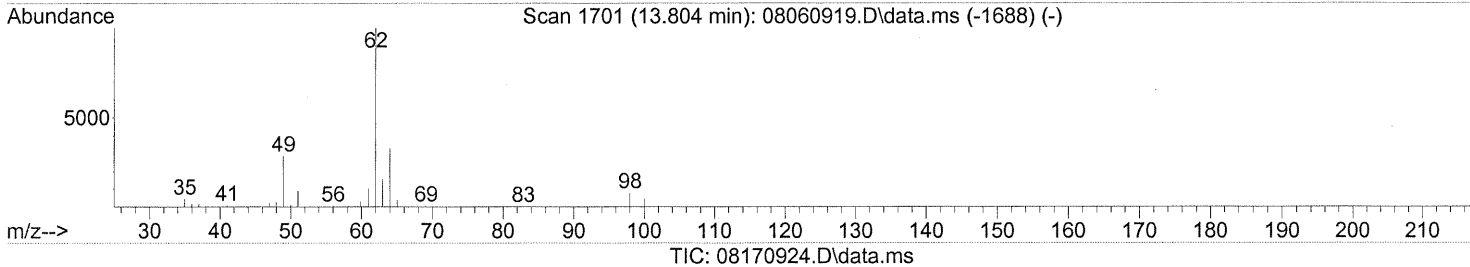
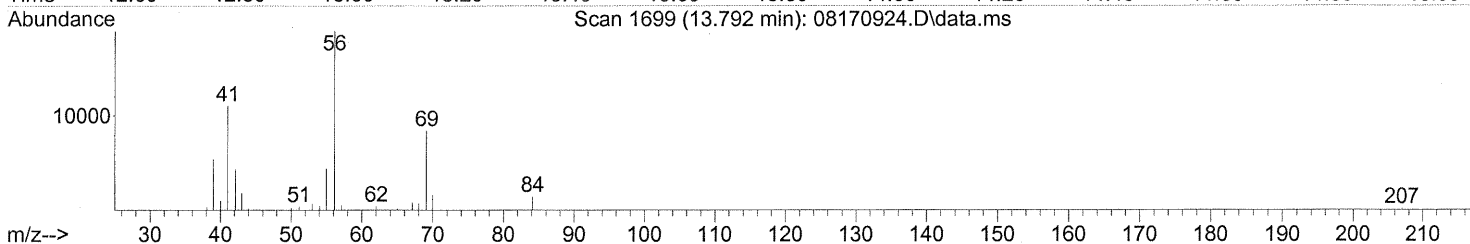
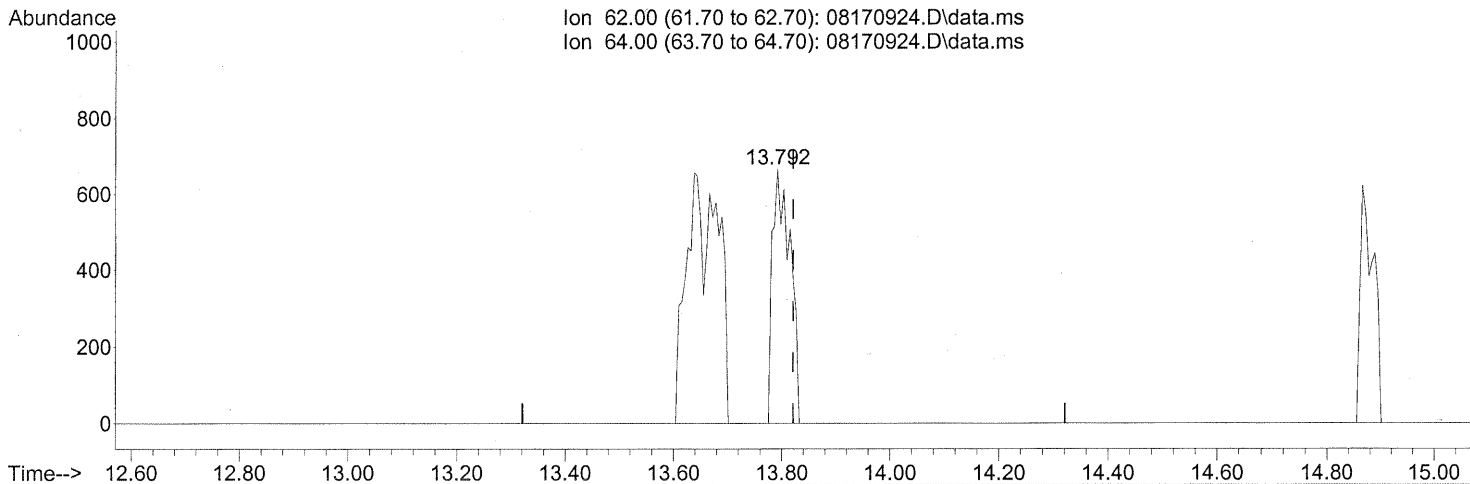
response 7104

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	99.44
42.10	253.40	619.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170924.D
Acq On : 17 Aug 2009 21:28
Operator : WA
Sample : P0902721-017 (1000mL)
Misc : Env. Health & Engineering 100206
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.028) 0.10ng

response 1512

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

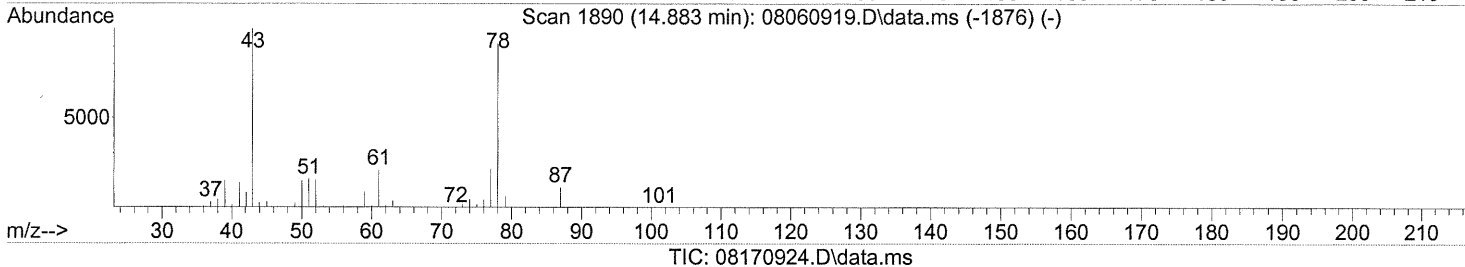
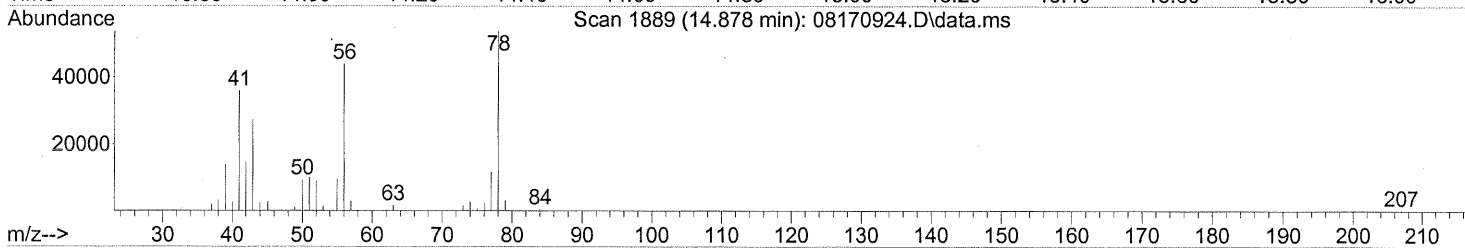
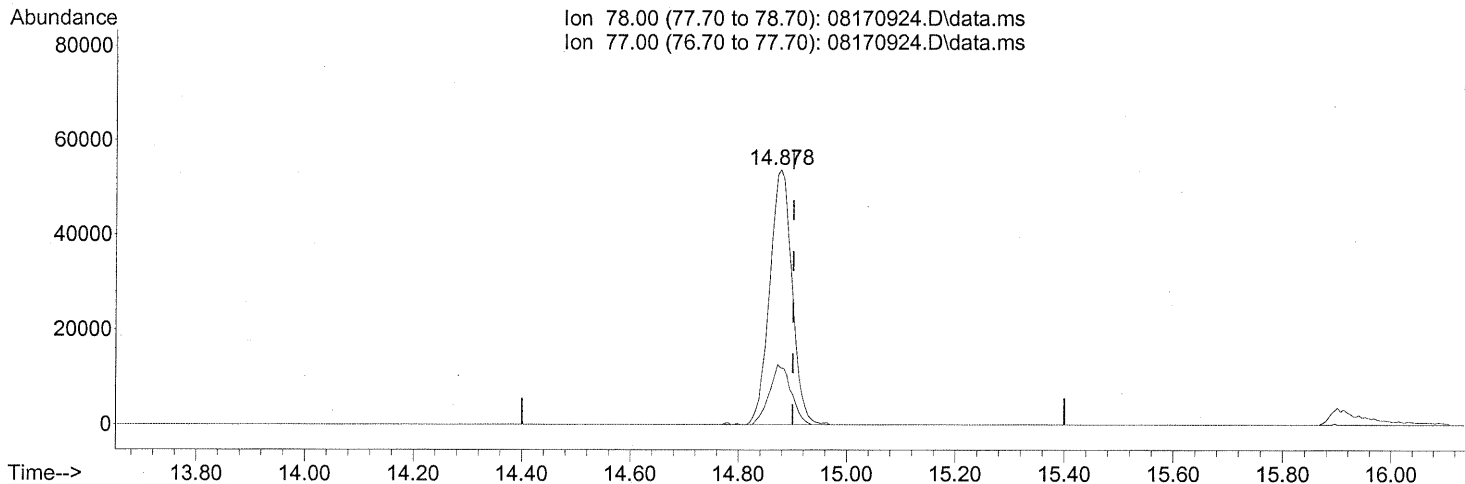
FP W 8/21/09

E. 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.878min (-0.023) 3.68ng

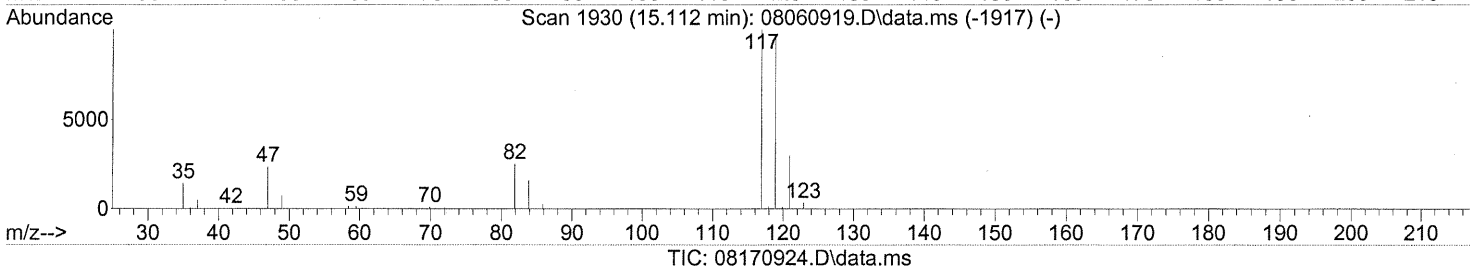
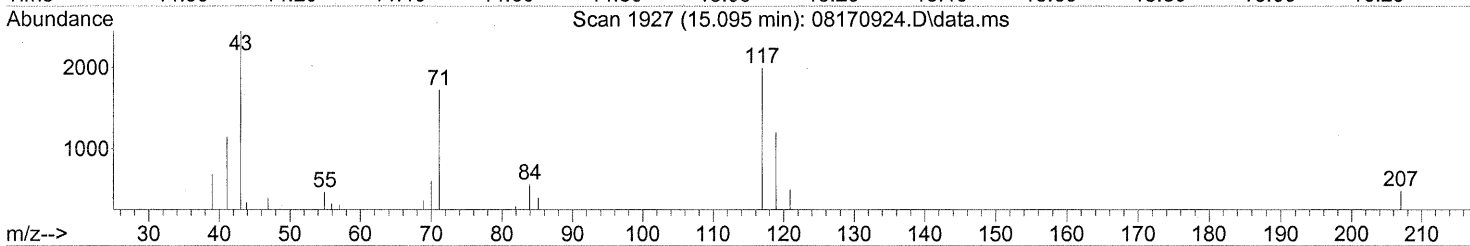
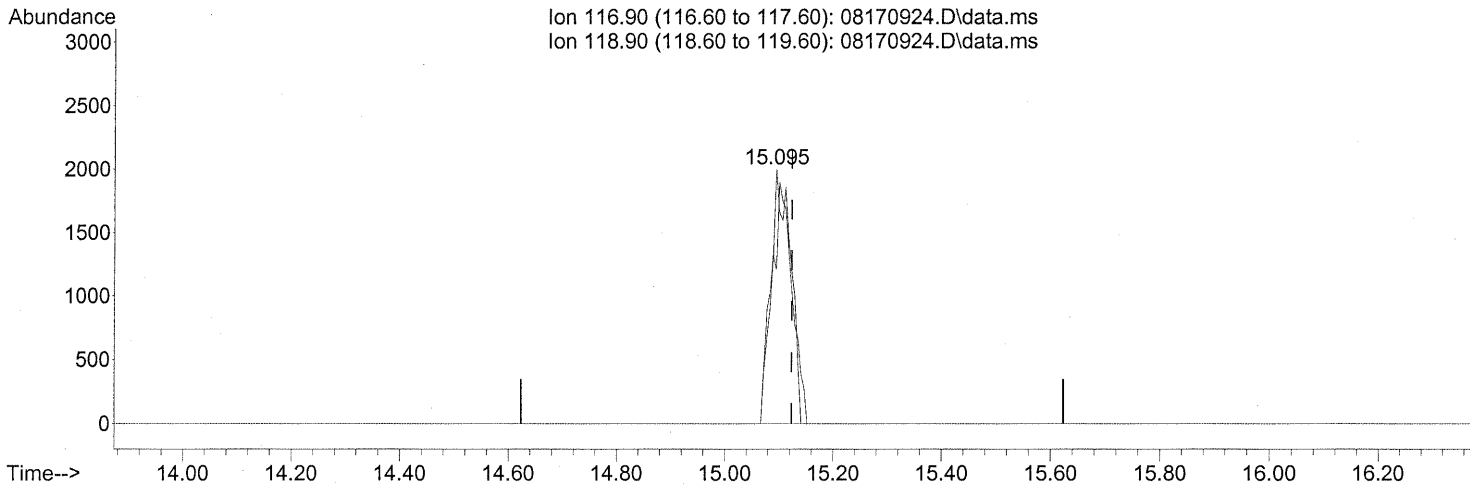
response 154190

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	22.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.095min (-0.028) 0.37ng

response 4978

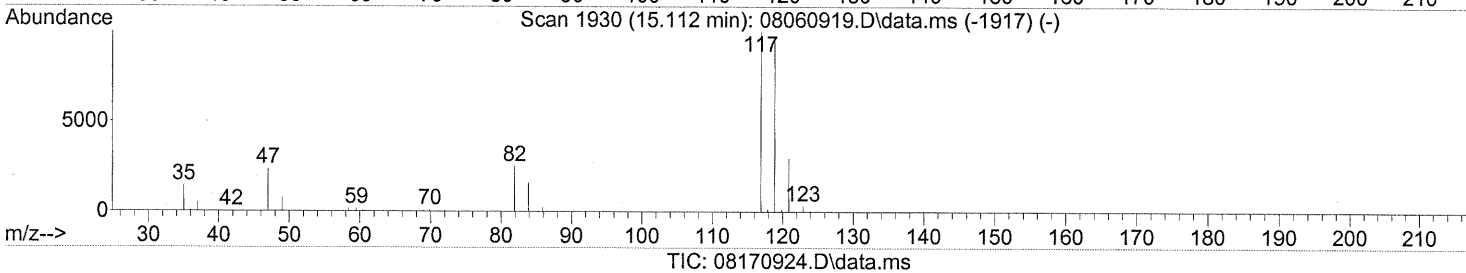
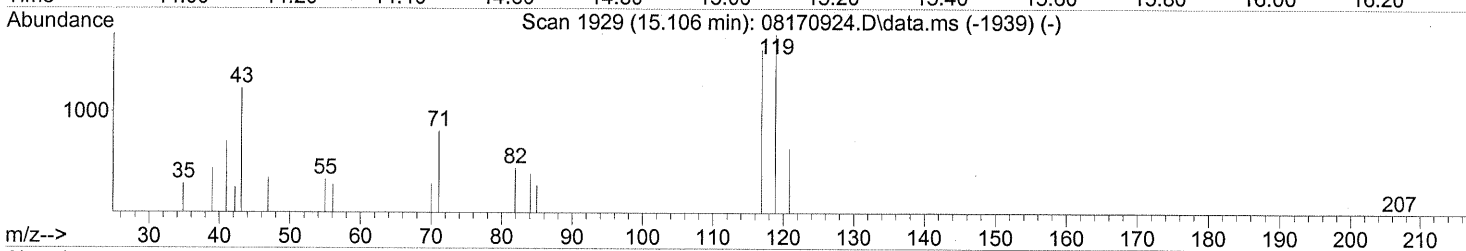
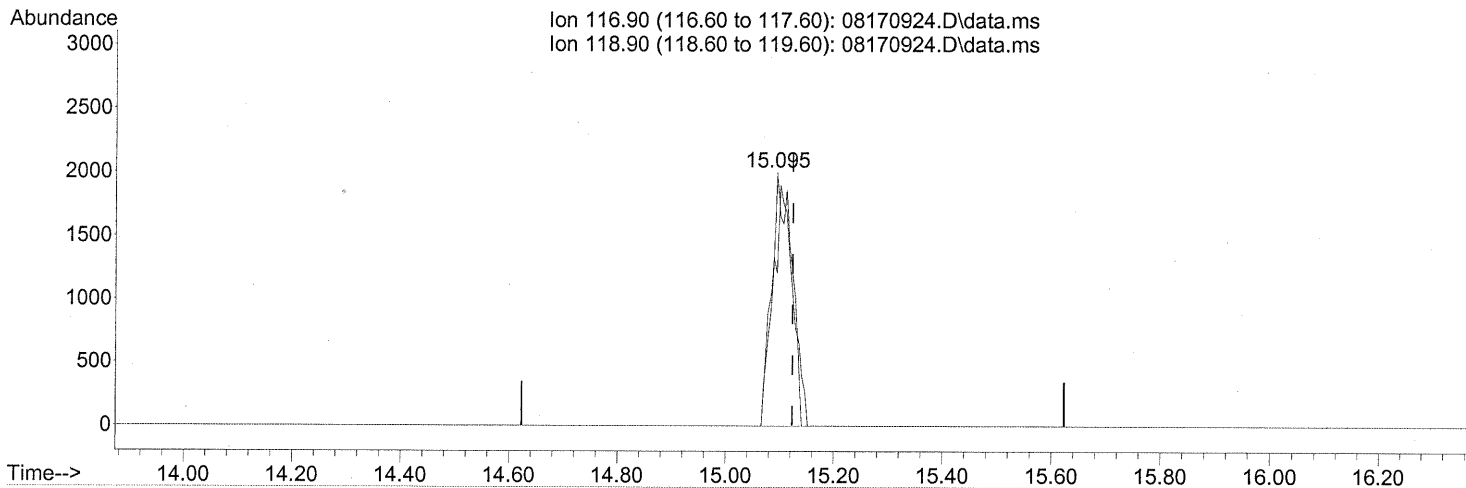
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	101.47
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.095min (-0.028) 0.37ng

response 4978

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	101.47
0.00	0.00	0.00
0.00	0.00	0.00

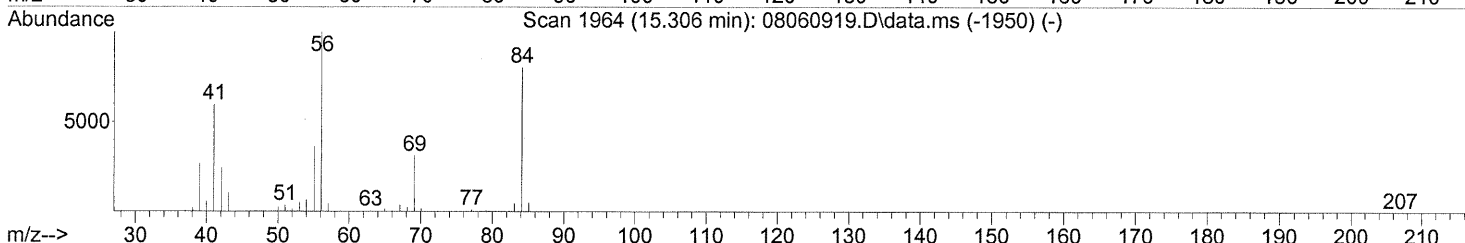
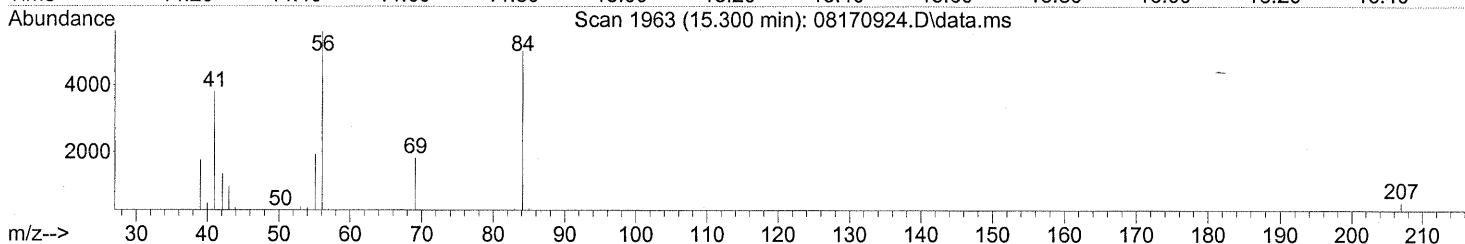
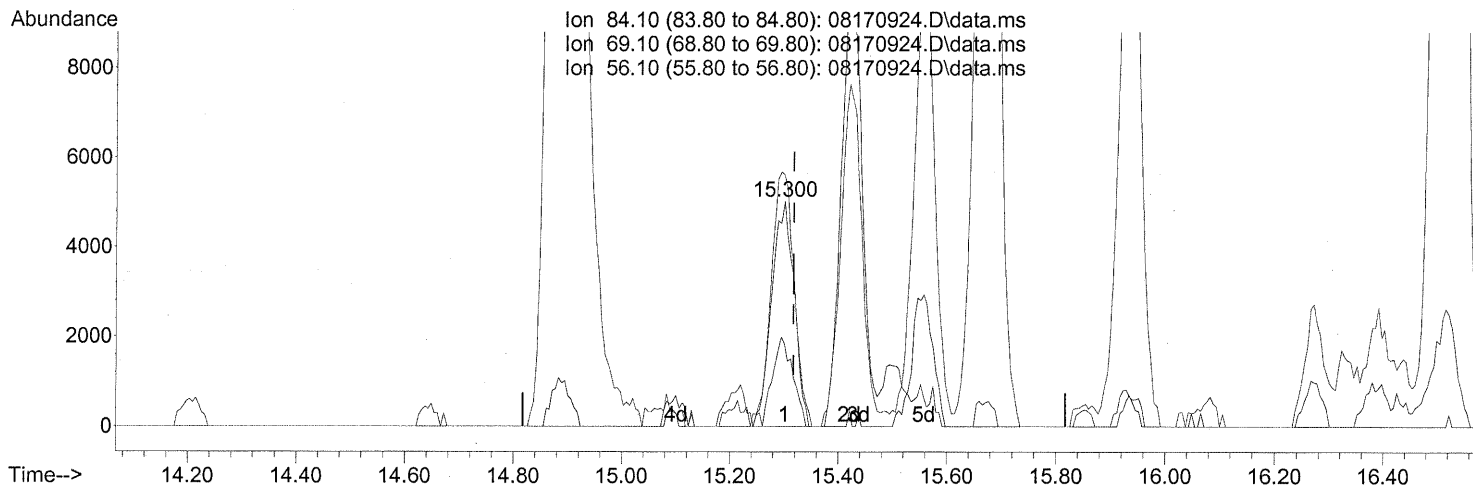
AFTER SUBTRACTION

Handwritten signature/initials

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170924.D\data.ms

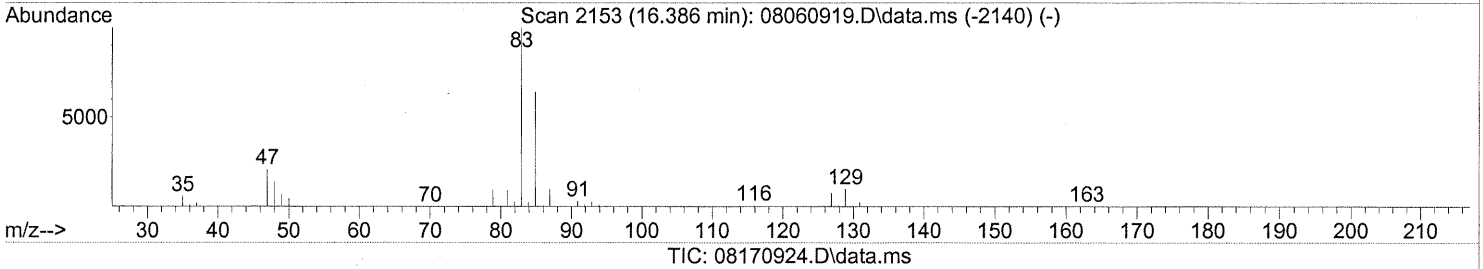
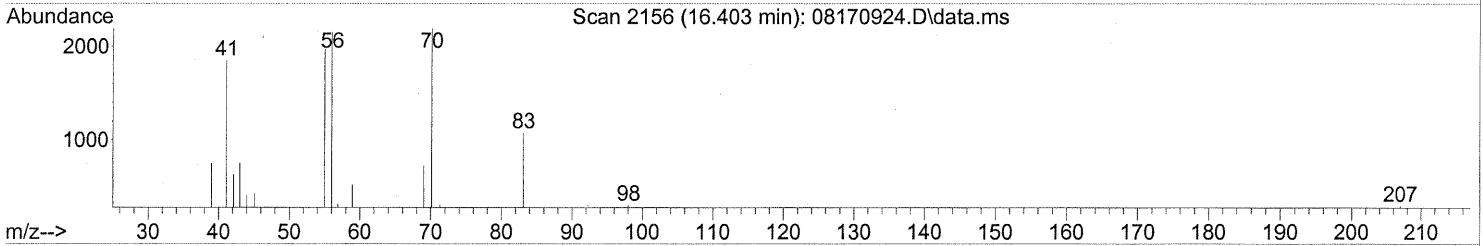
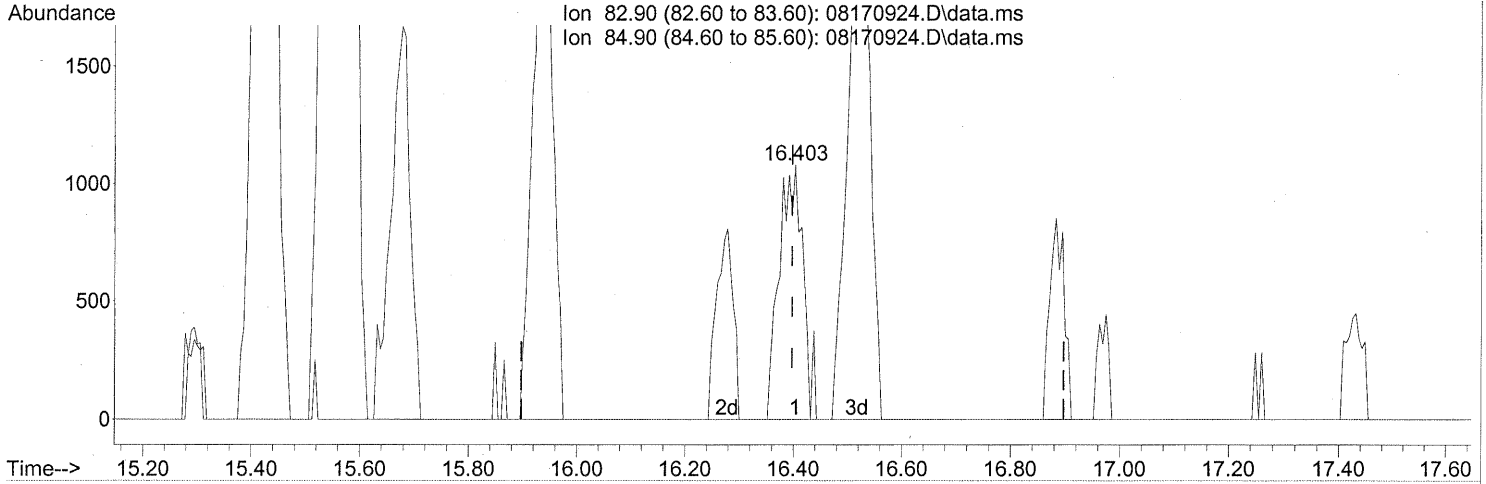
(43) Cyclohexane (T)
 15.300min (-0.017) 0.94ng
 response 14394

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	36.89
56.10	127.50	116.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.403min (+0.006) 0.23ng

response 3162

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

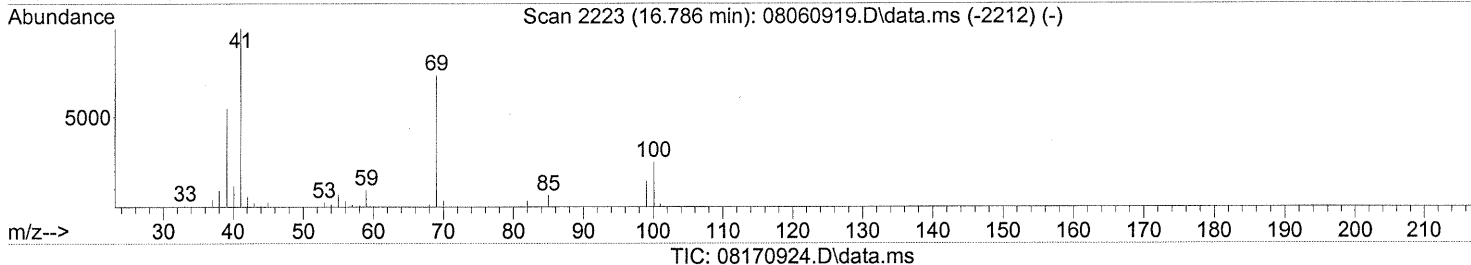
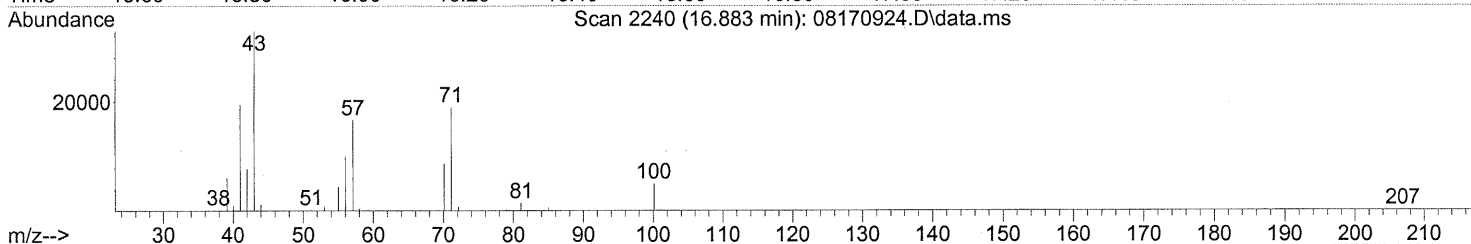
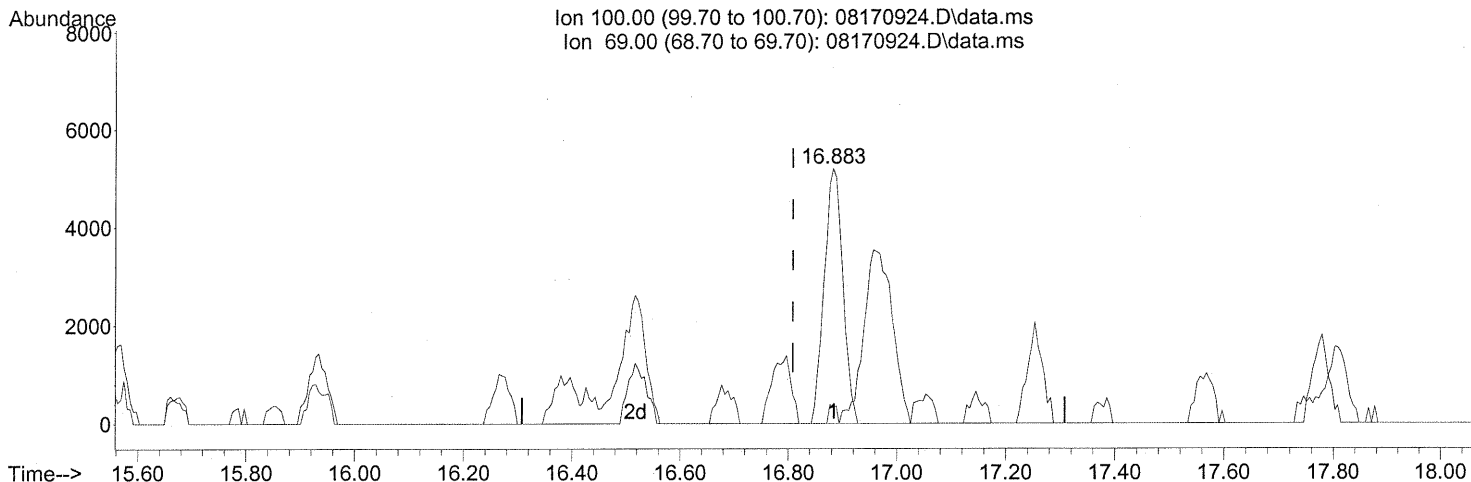
FP in 8/21/09

E 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.883min (+0.074) 3.20ng

response 12358

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	2.96#
0.00	0.00	0.00
0.00	0.00	0.00

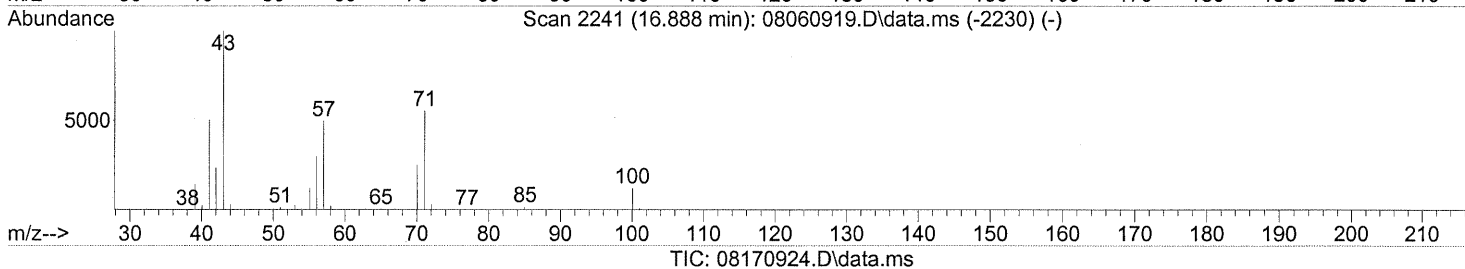
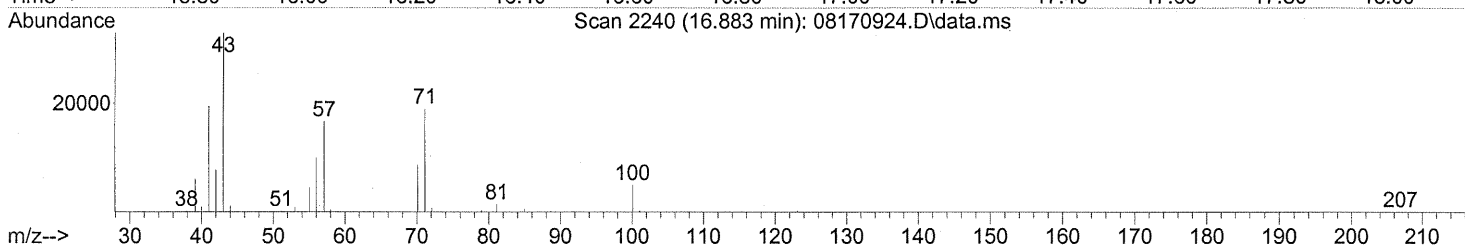
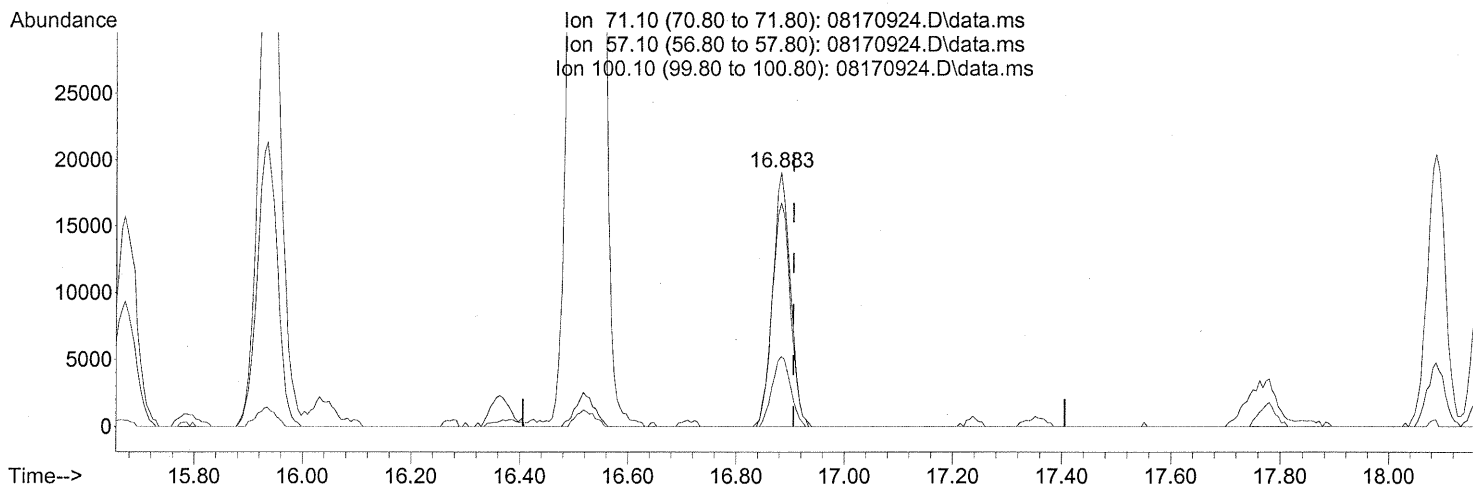
FP in 8/21/09

E 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(51) n-Heptane (T)

16.883min (-0.023) 3.82ng

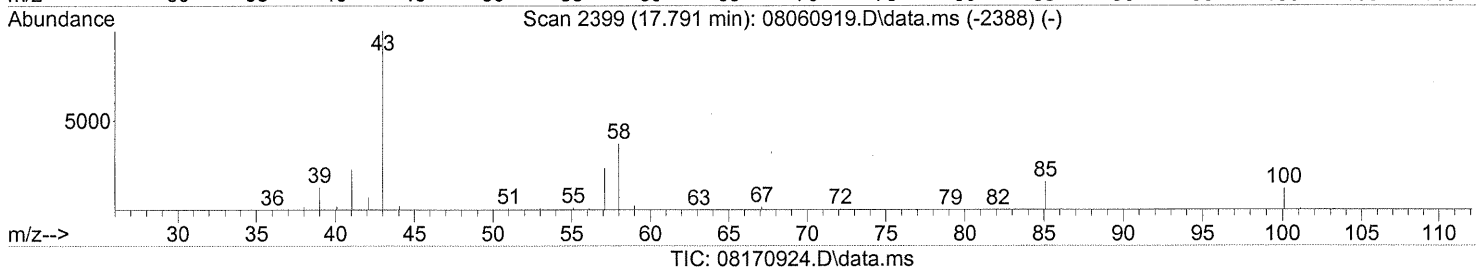
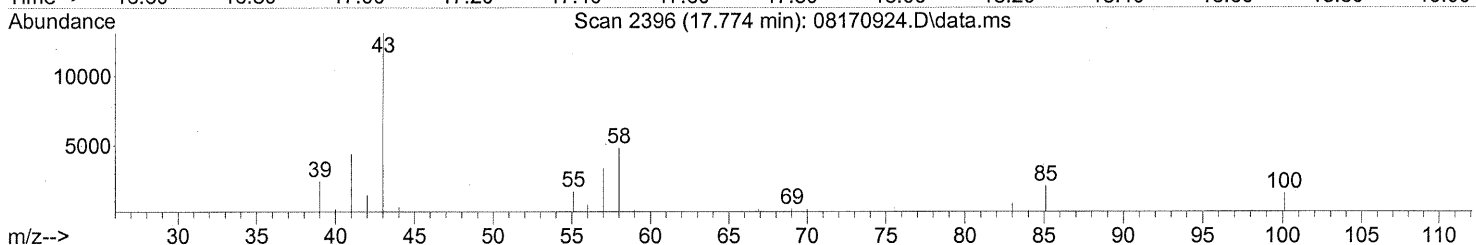
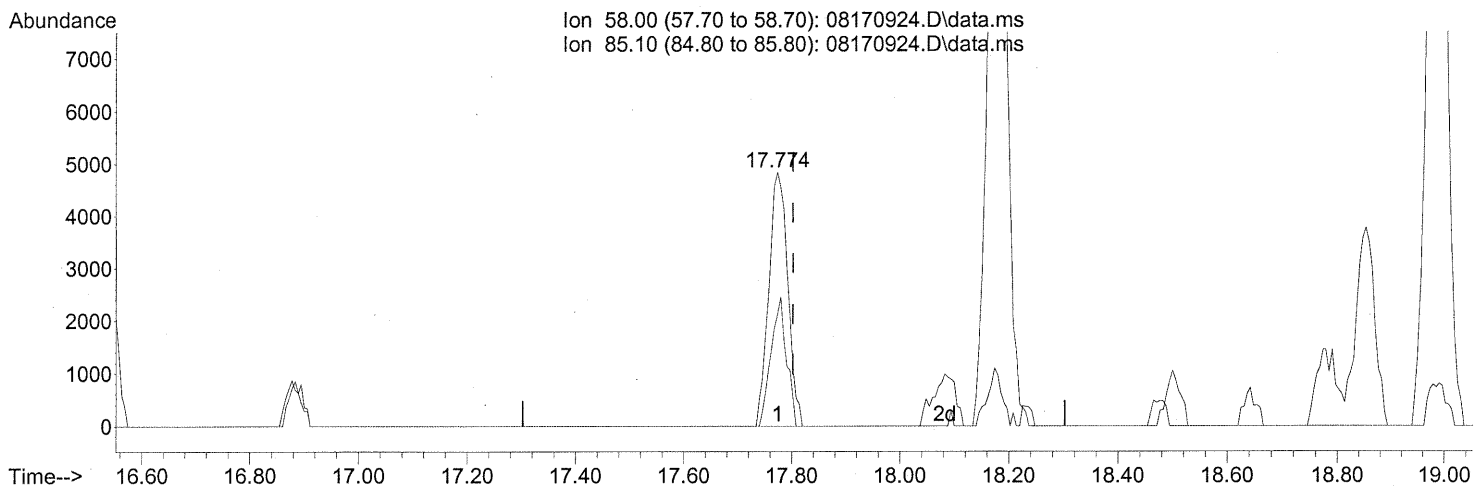
response 43001

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	92.00
100.10	26.40	28.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.774min (-0.028) 1.17ng

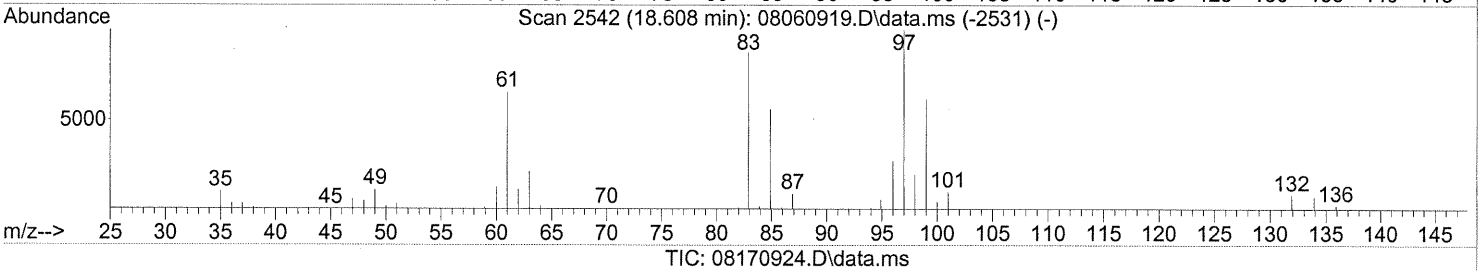
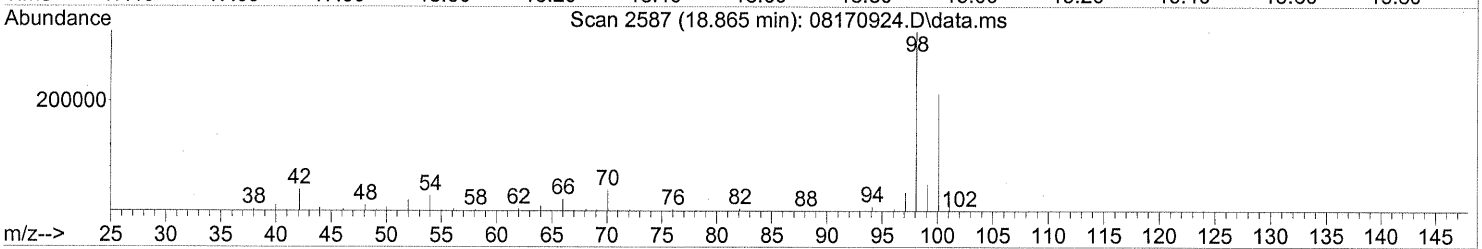
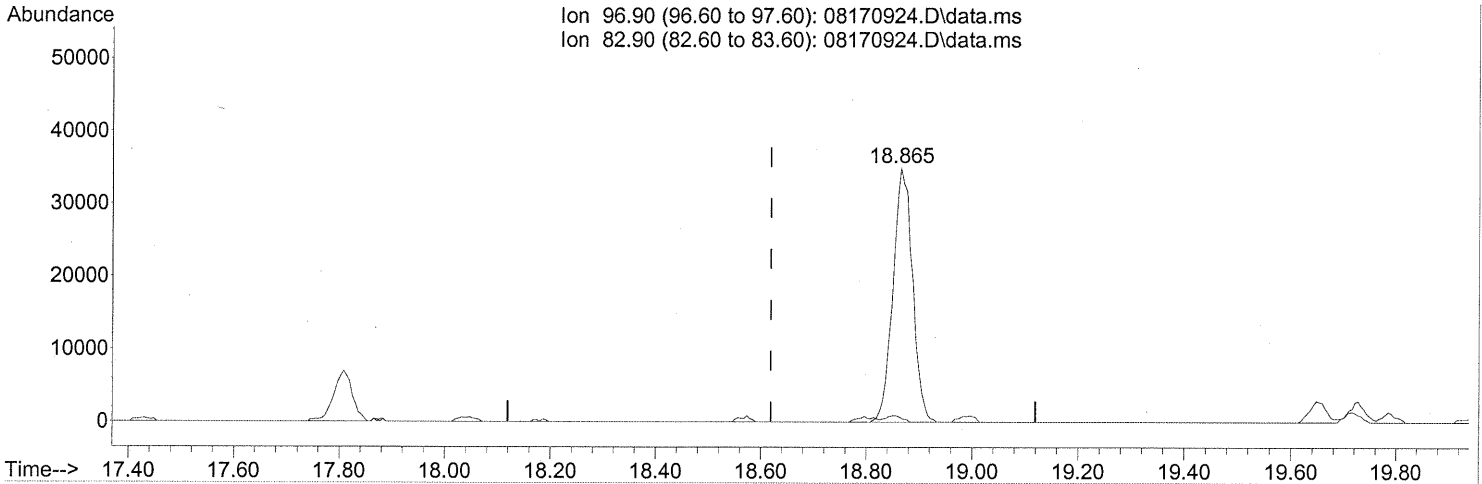
response 11736

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	41.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.865min (+0.246) 9.73ng

response 89484

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	2.04#
0.00	0.00	0.00
0.00	0.00	0.00

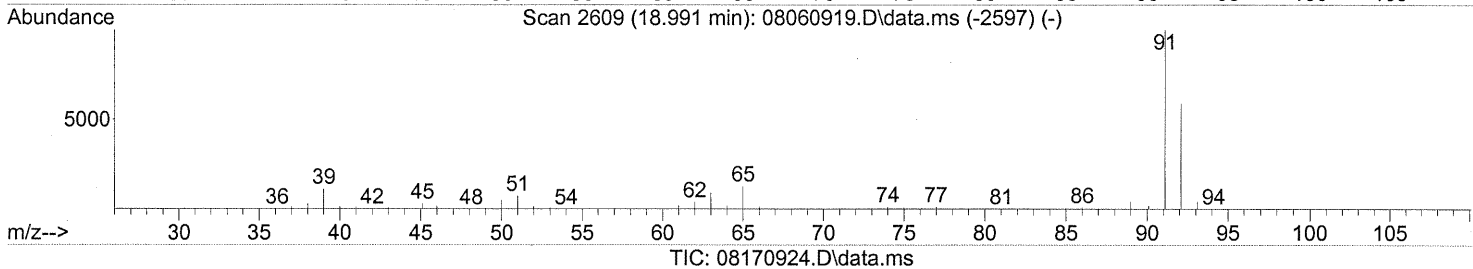
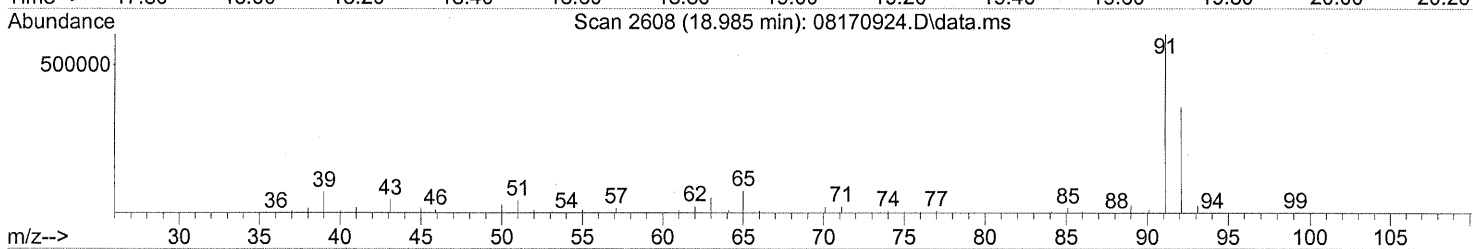
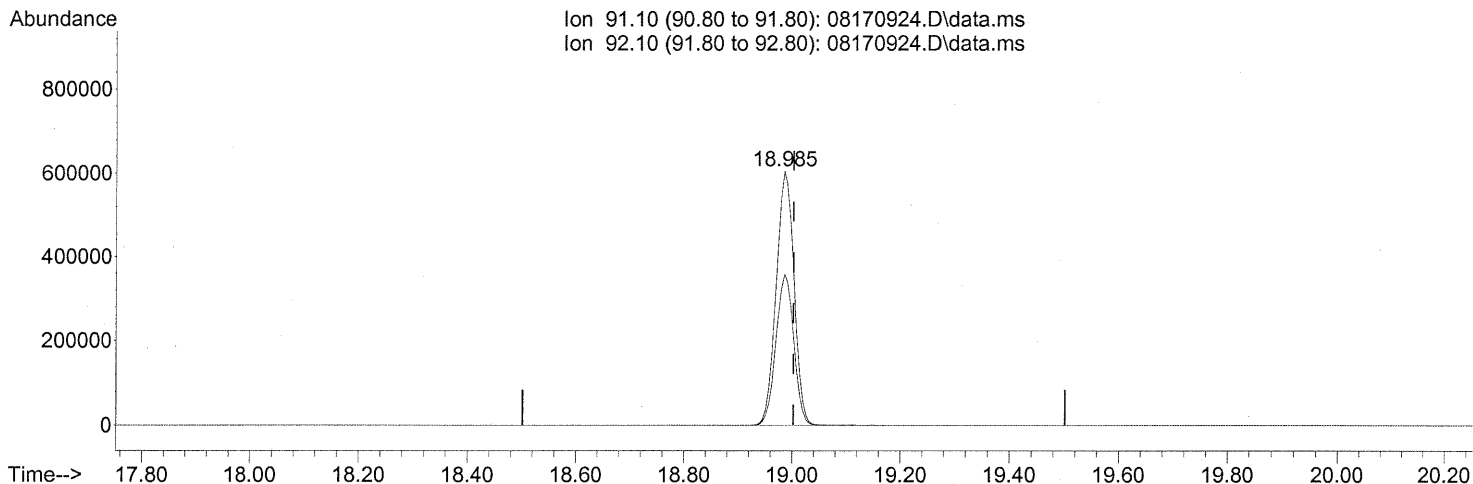
FP WH 8/21/09

8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 34.81ng

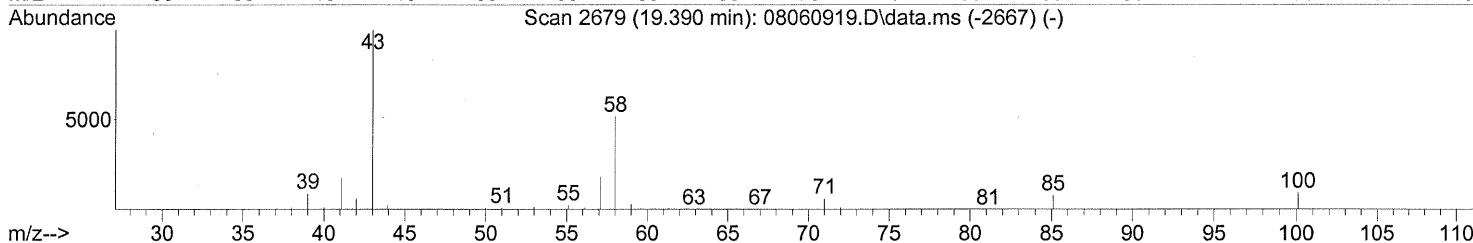
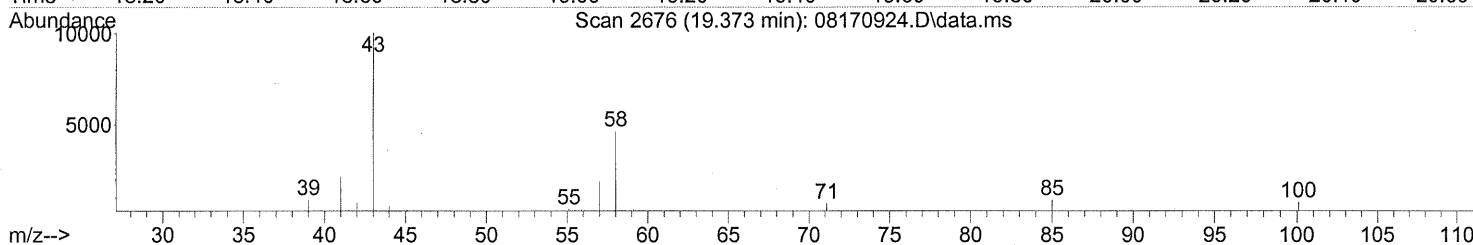
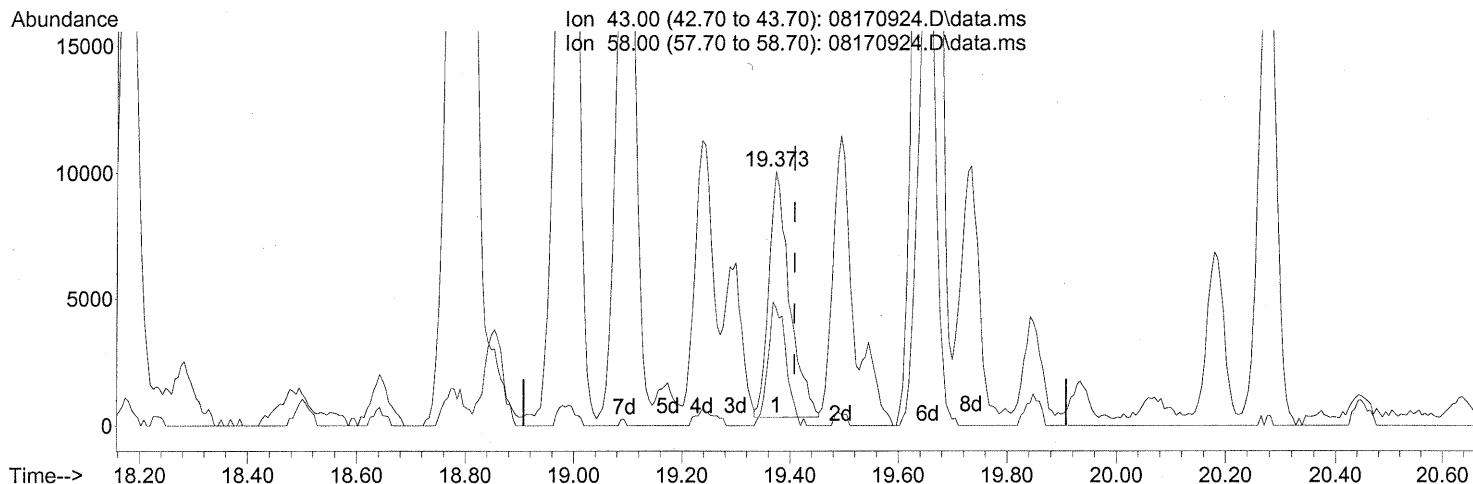
response 1380129

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170924.D\data.ms

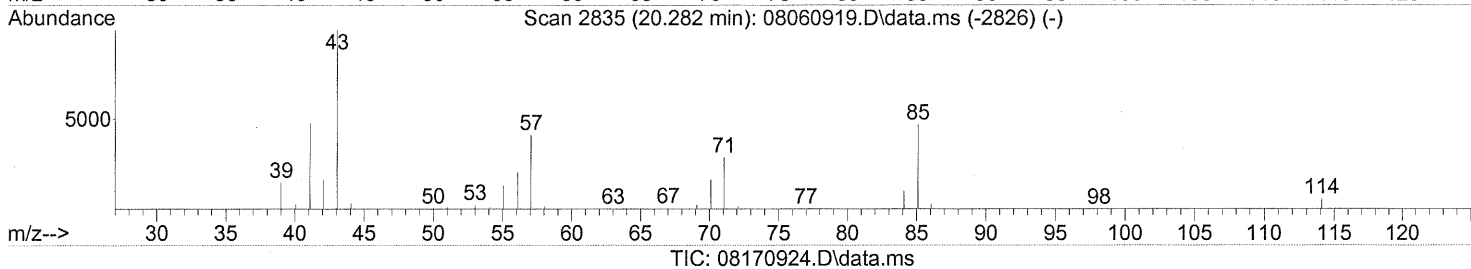
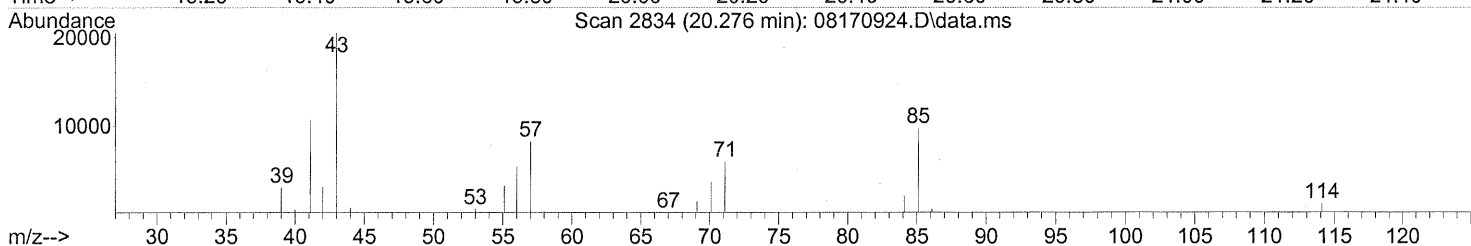
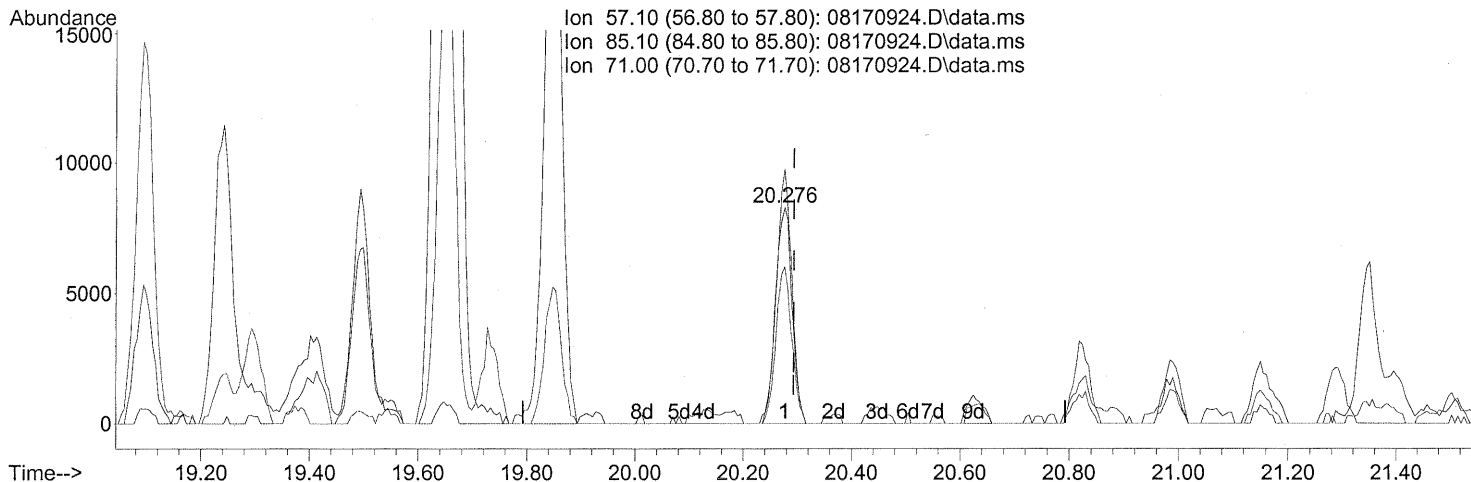
(59) 2-Hexanone (T)
 19.373min (-0.034) 0.98ng
 response 25955

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	43.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



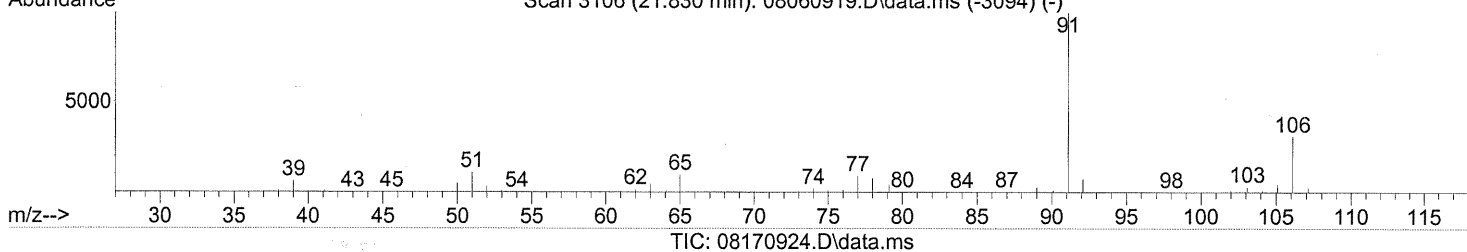
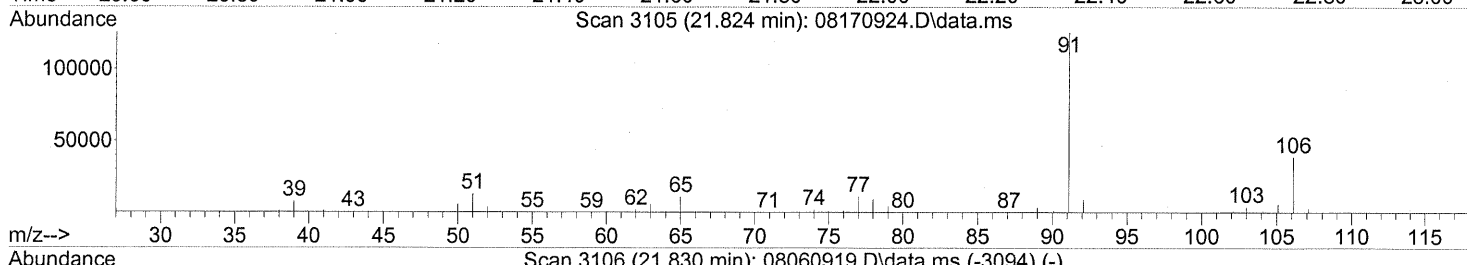
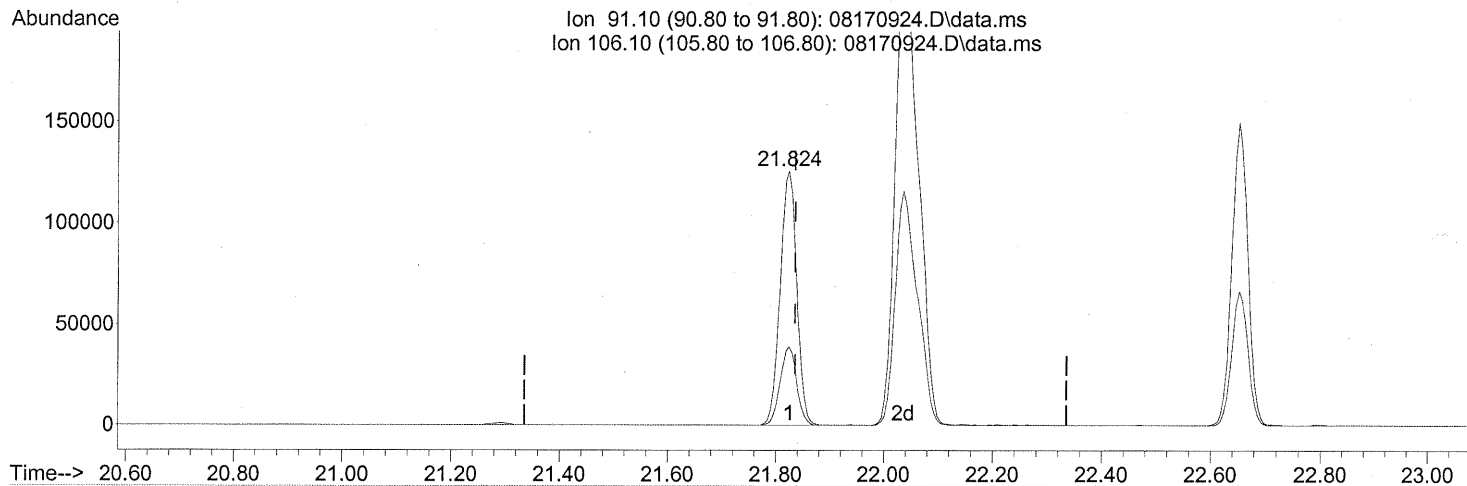
(63) n-Octane (T)
 20.276min (-0.017) 1.80ng
 response 17263

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	110.48
71.00	68.10	70.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



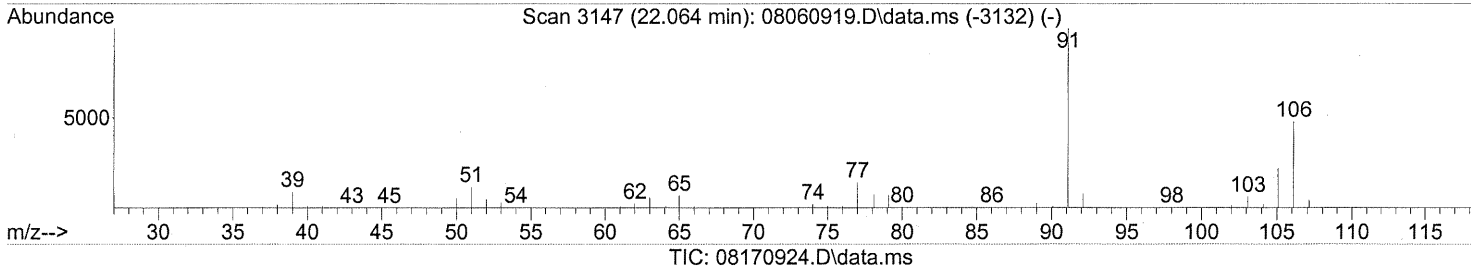
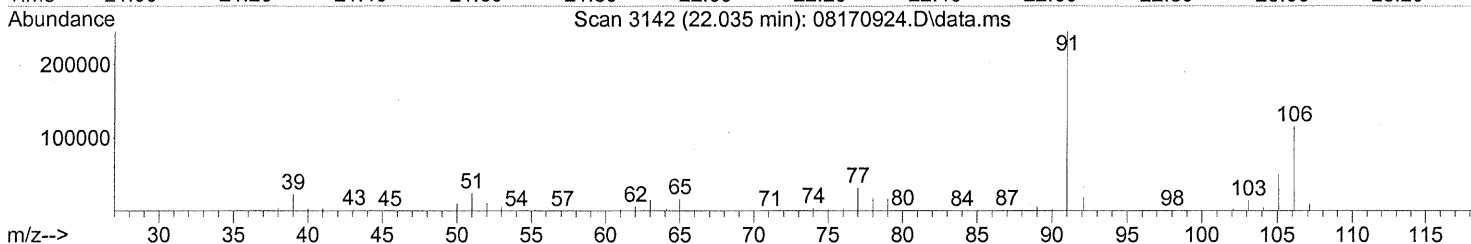
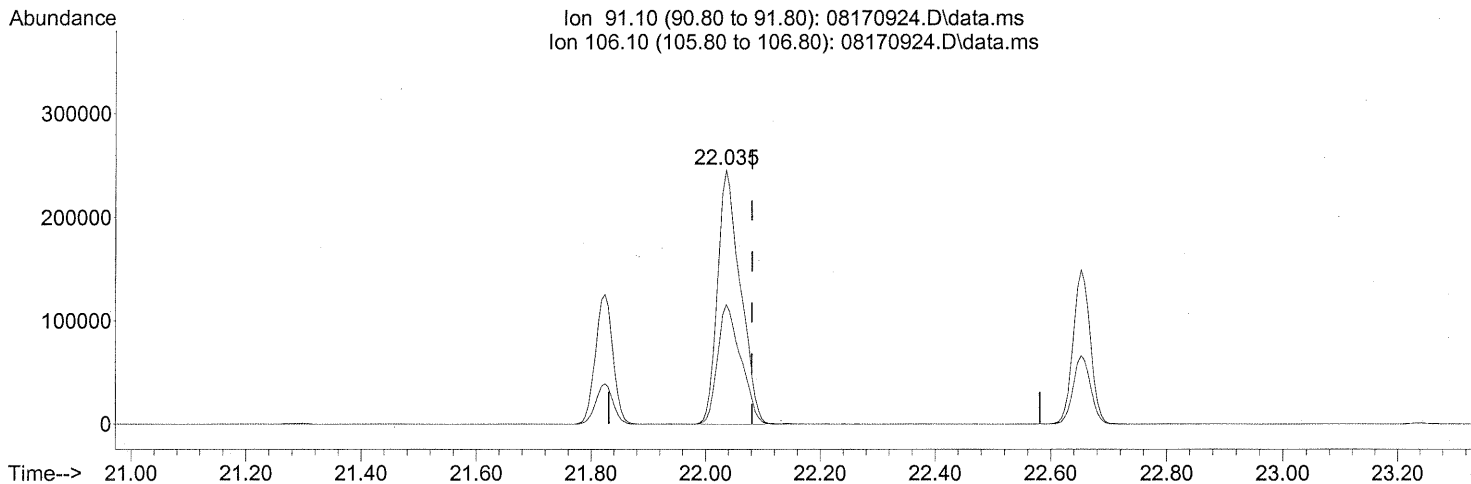
(66) Ethylbenzene (T)
 21.824min (-0.011) 5.88ng
 response 266493

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170924.D
Acq On : 17 Aug 2009 21:28
Operator : WA
Sample : P0902721-017 (1000mL)
Misc : Env. Health & Engineering 100206
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 18.66ng

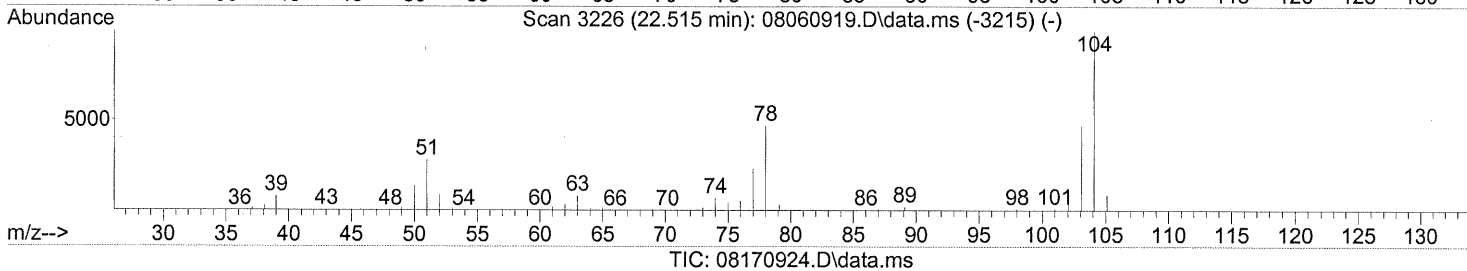
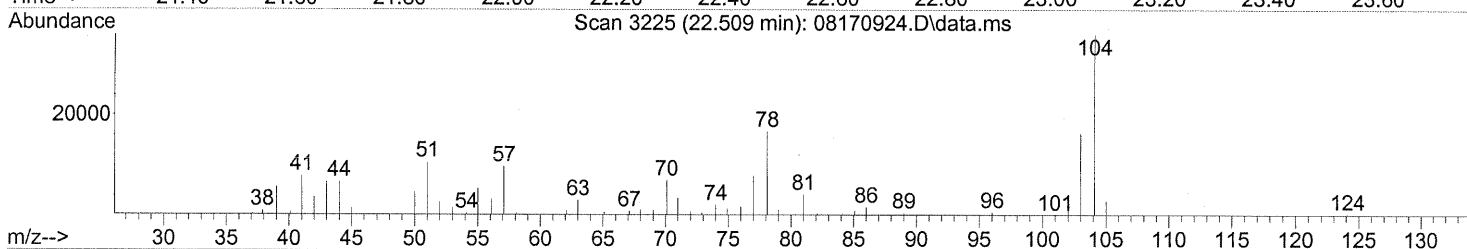
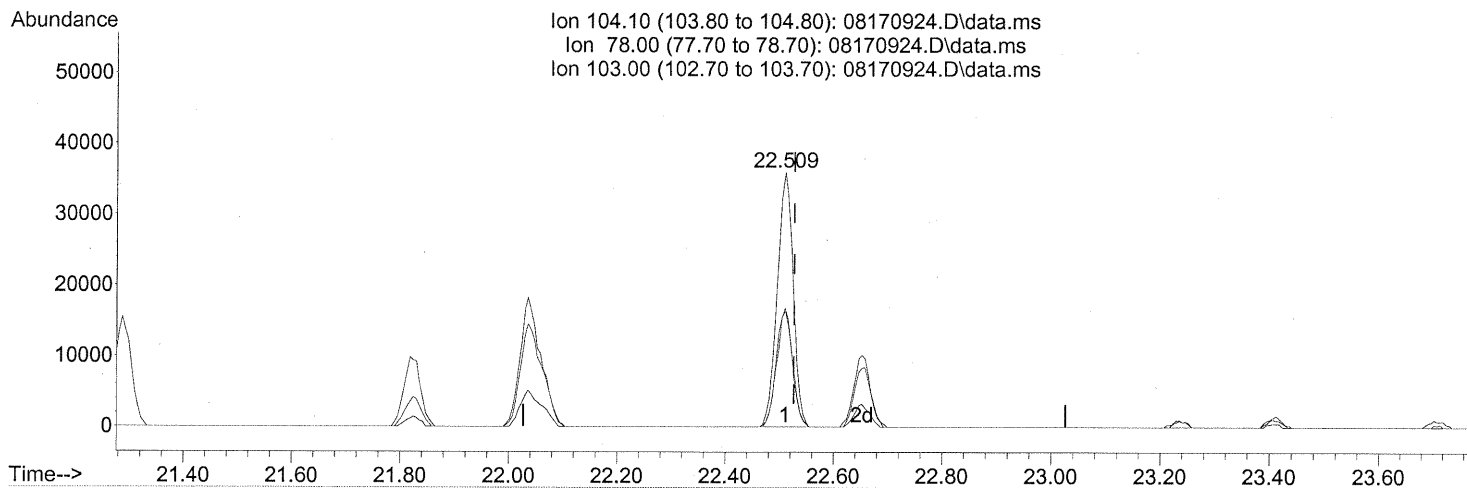
response 684084

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170924.D
Acq On : 17 Aug 2009 21:28
Operator : WA
Sample : P0902721-017 (1000mL)
Misc : Env. Health & Engineering 100206
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



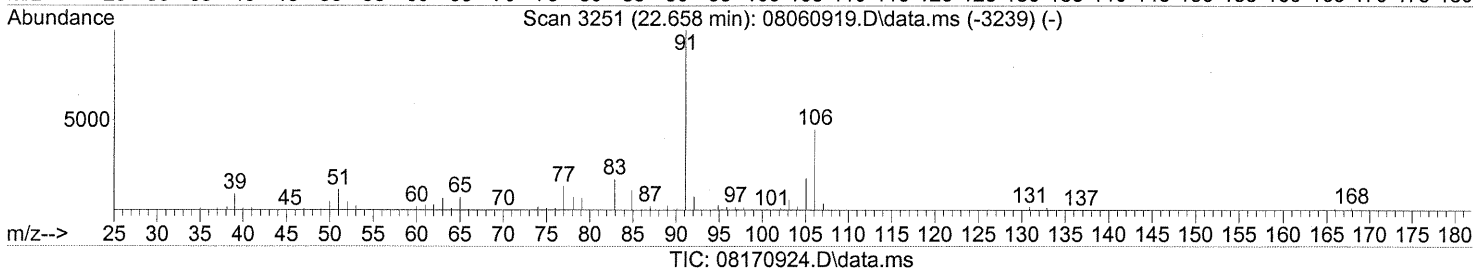
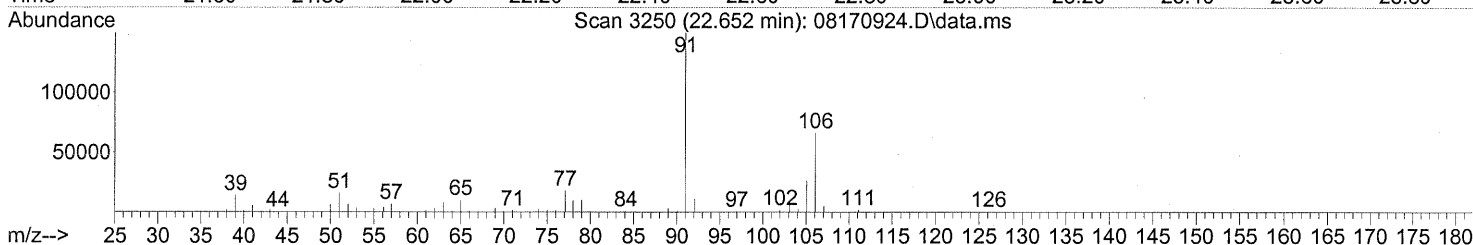
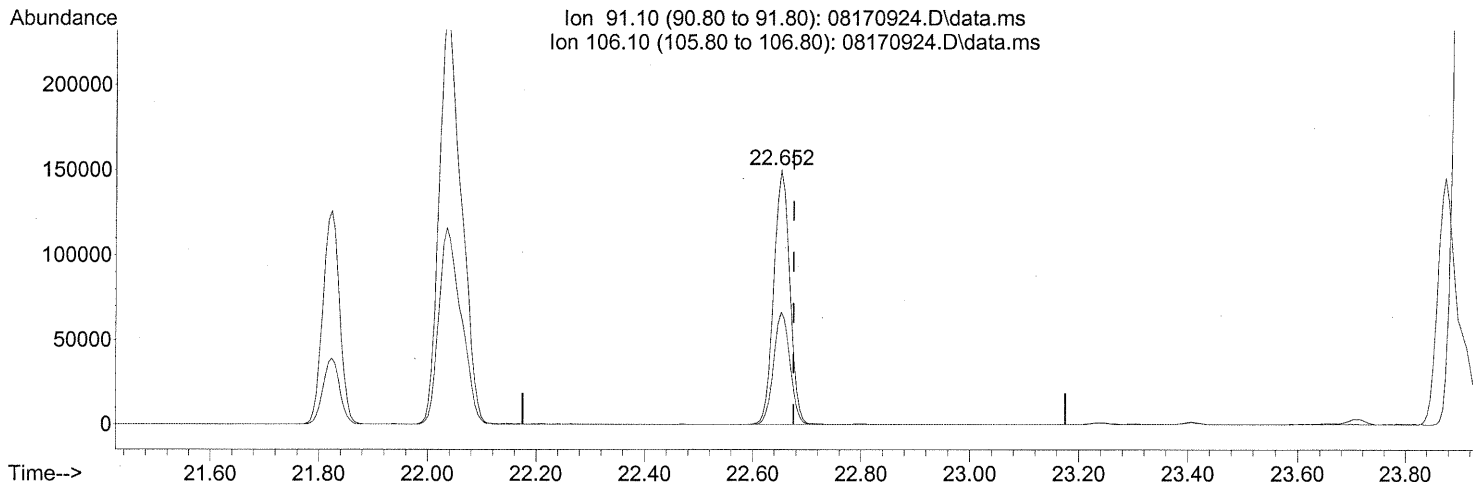
(69) Styrene (T)
22.509min (-0.017) 2.77ng
response 73452

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	47.29
103.00	46.20	46.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 8.35ng

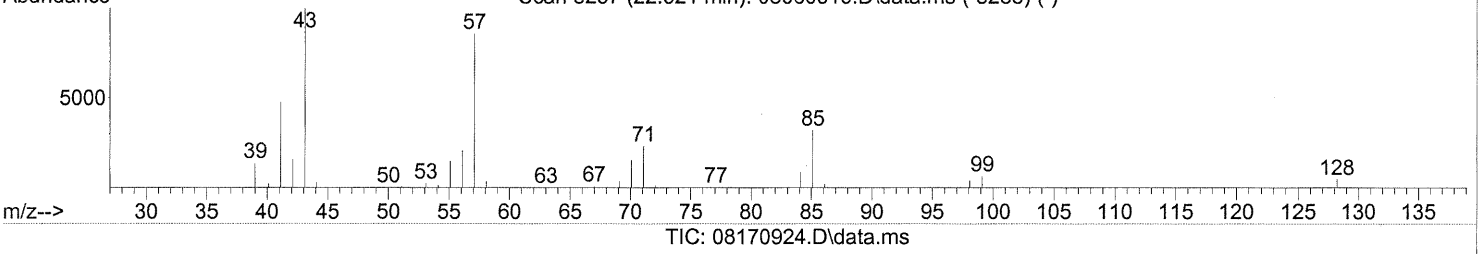
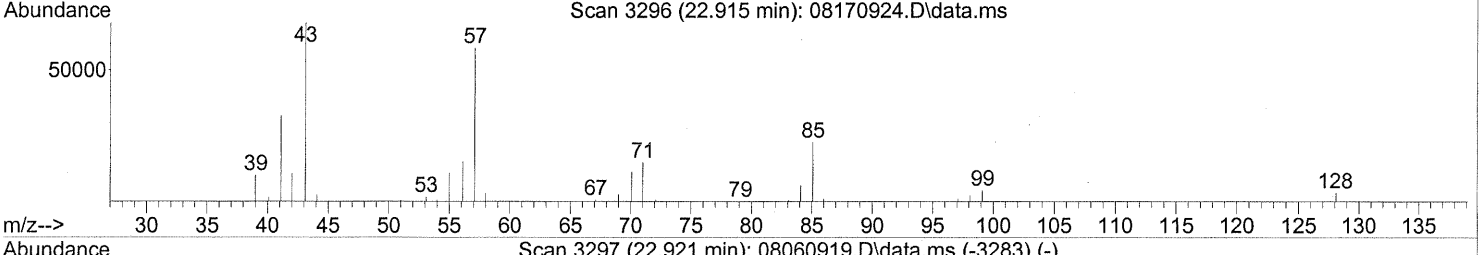
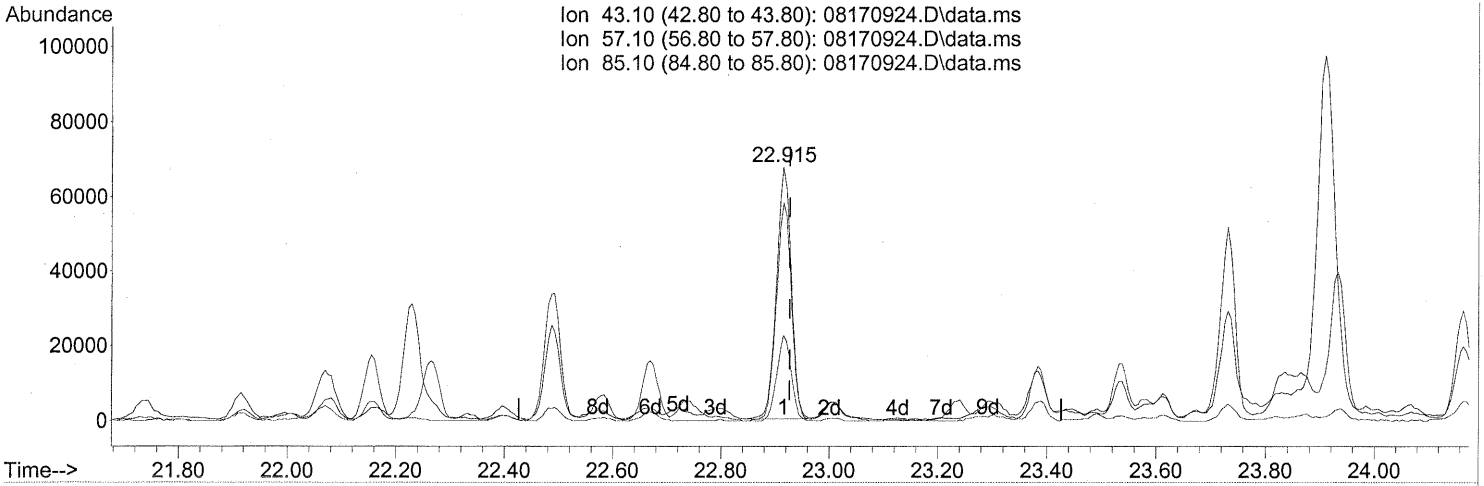
response 306909

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	44.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



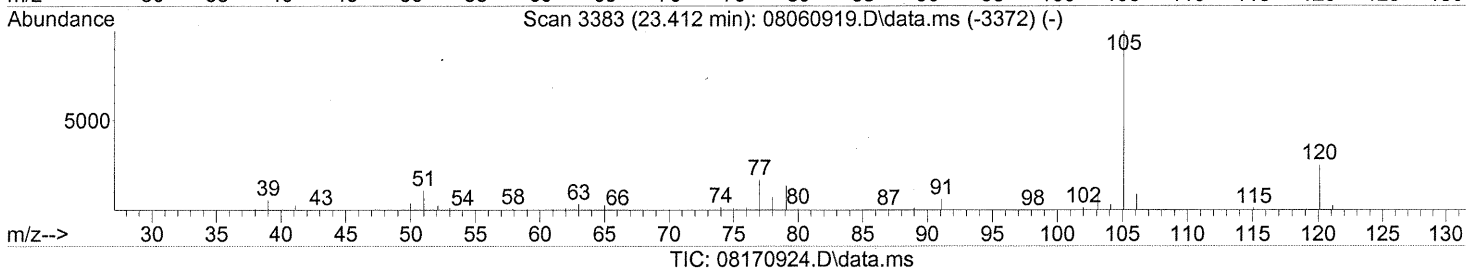
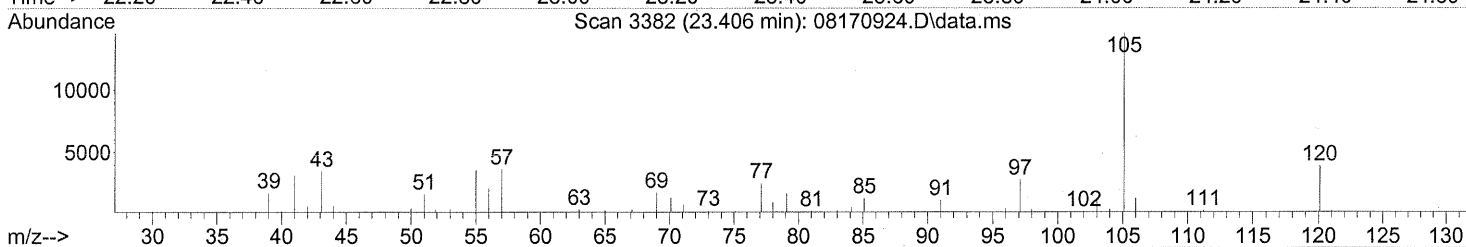
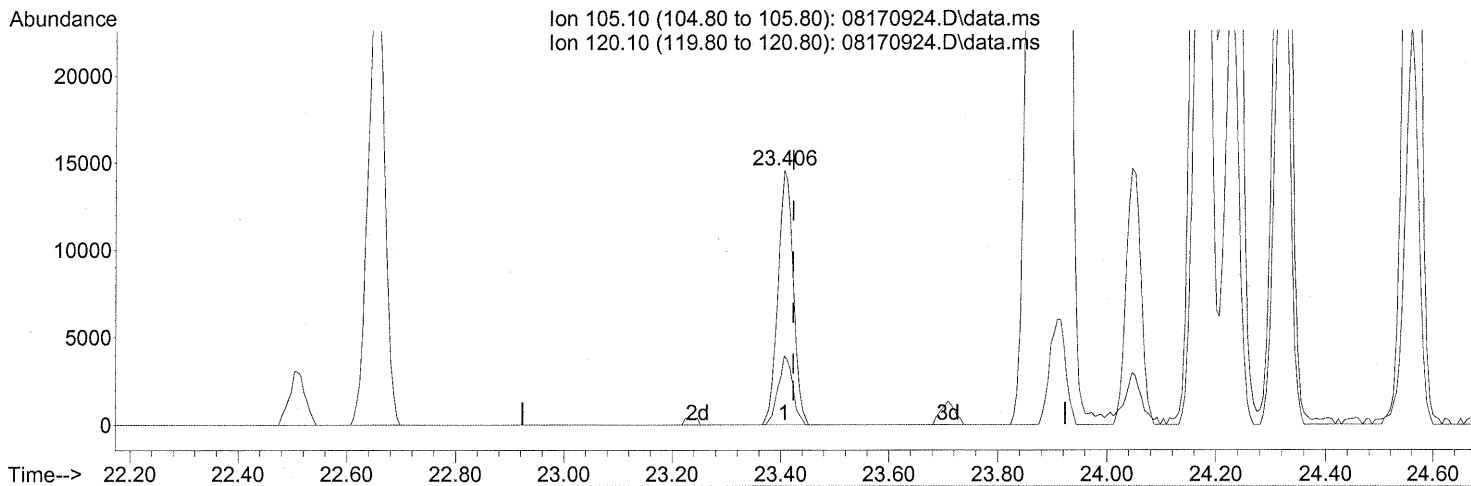
(71) n-Nonane (T)
 22.915min (-0.011) 5.22ng
 response 127521

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	88.37
85.10	30.40	32.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



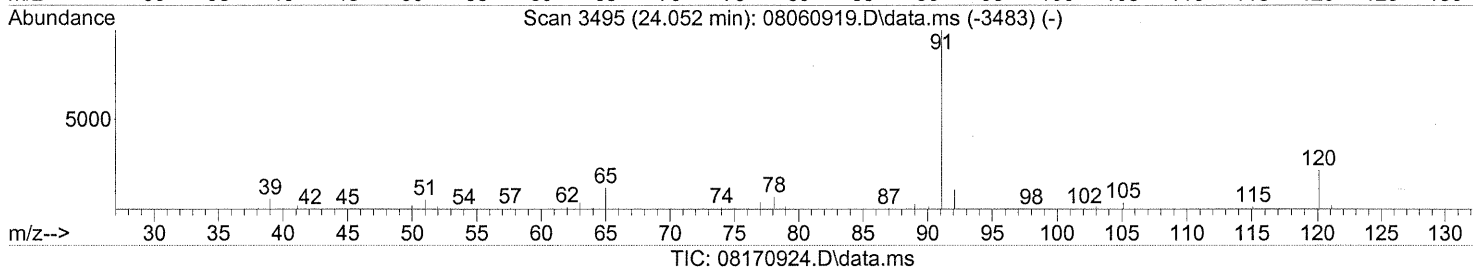
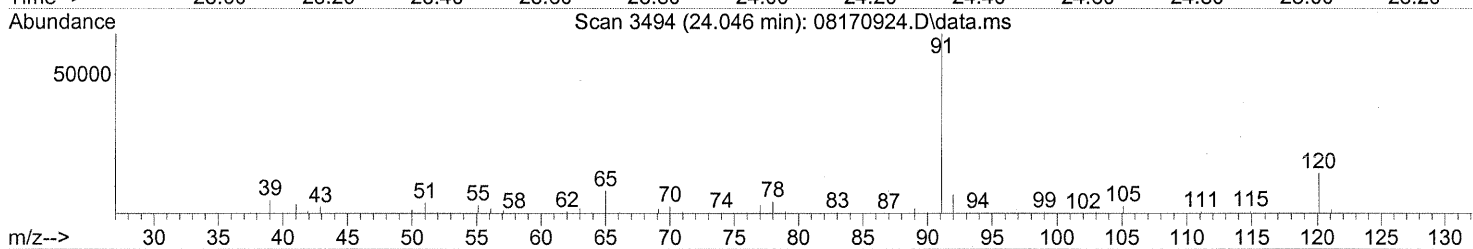
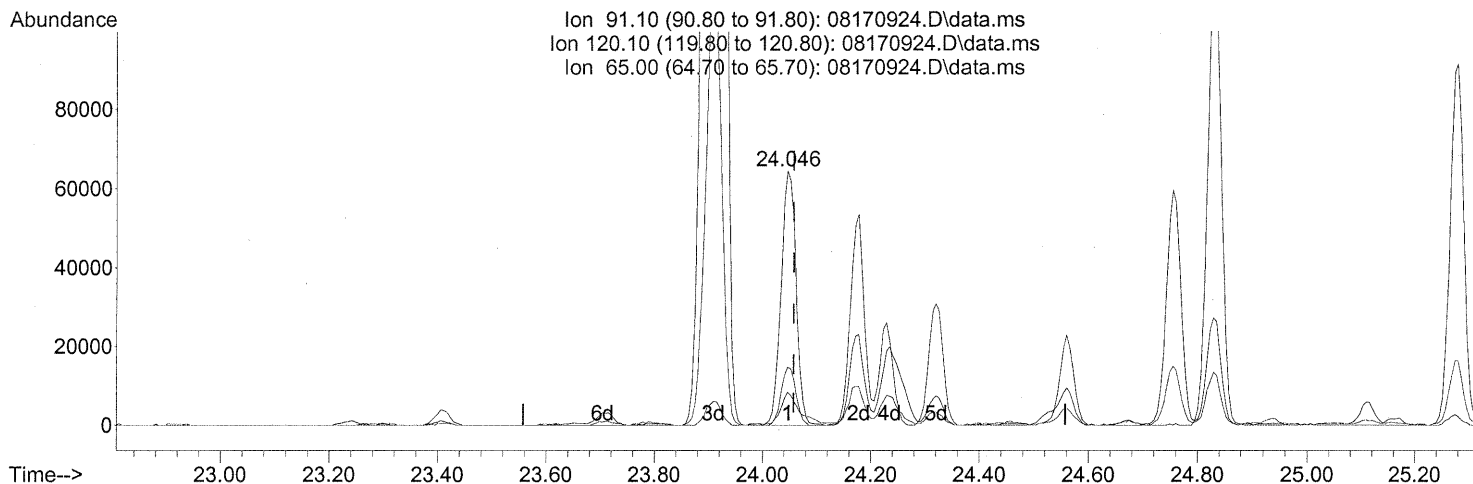
(74) Cumene (T)
 23.406min (-0.017) 0.62ng
 response 28797

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	25.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.046min (-0.011) 2.12ng

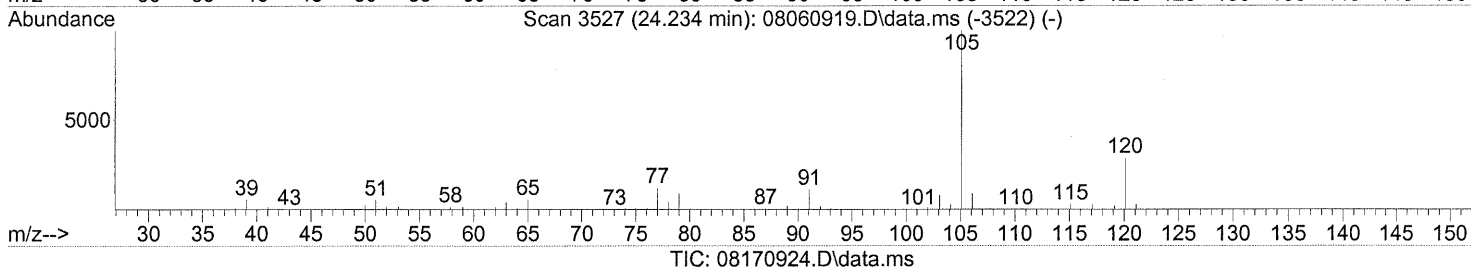
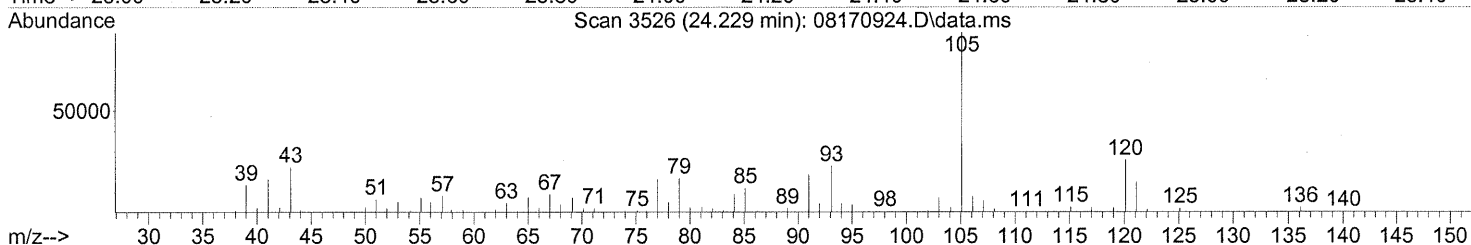
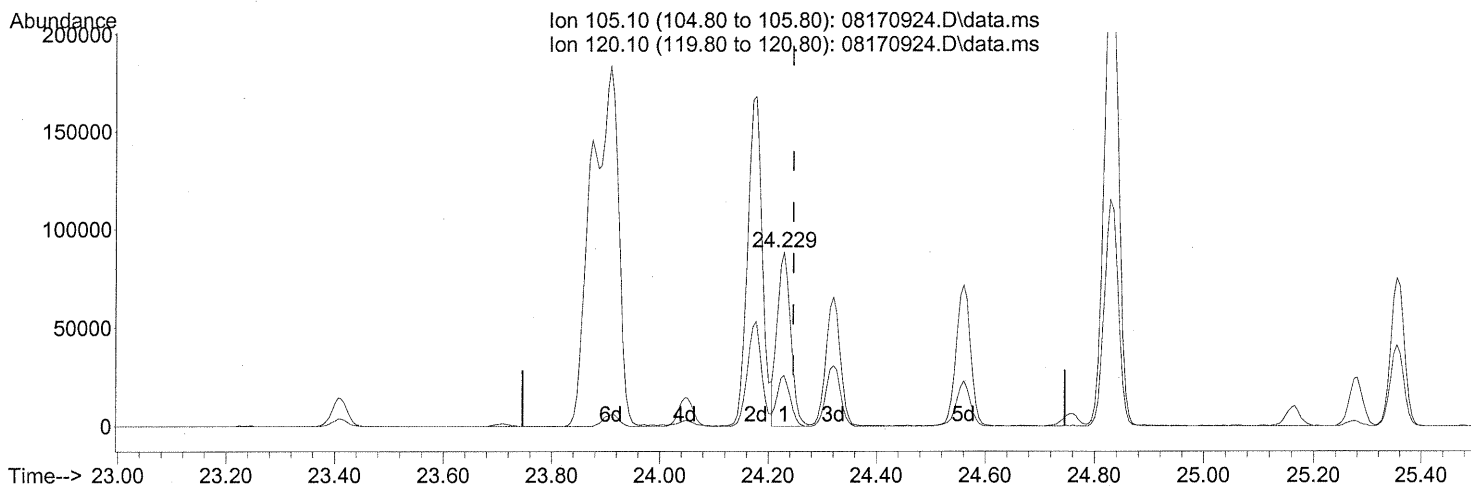
response 123486

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	22.45
65.00	12.00	16.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



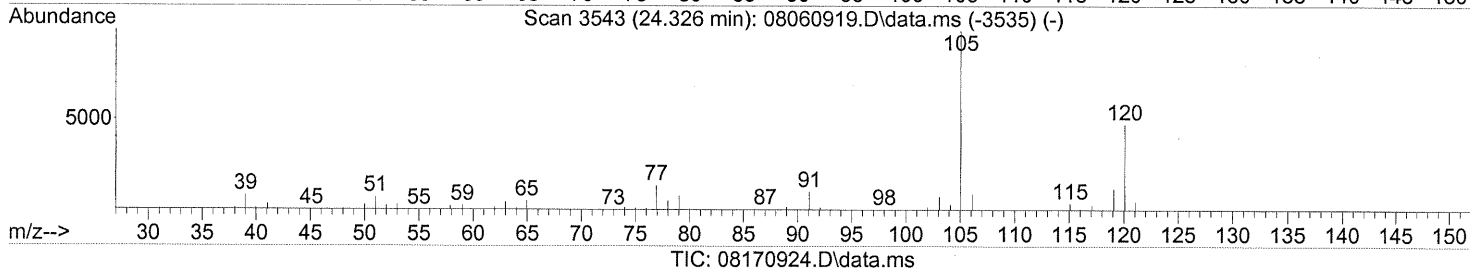
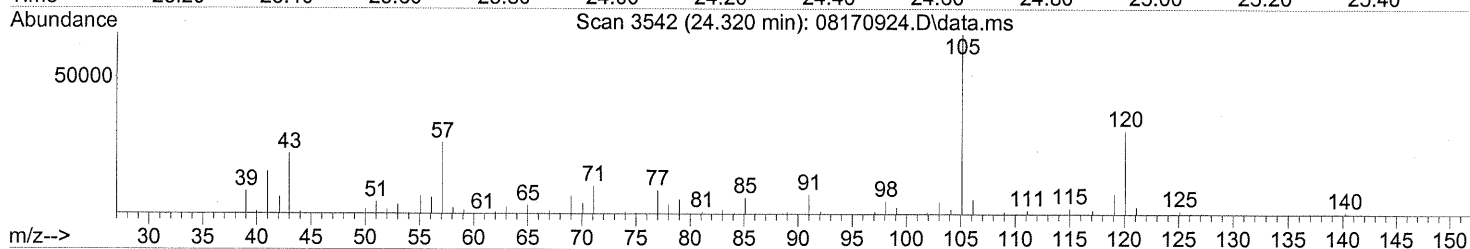
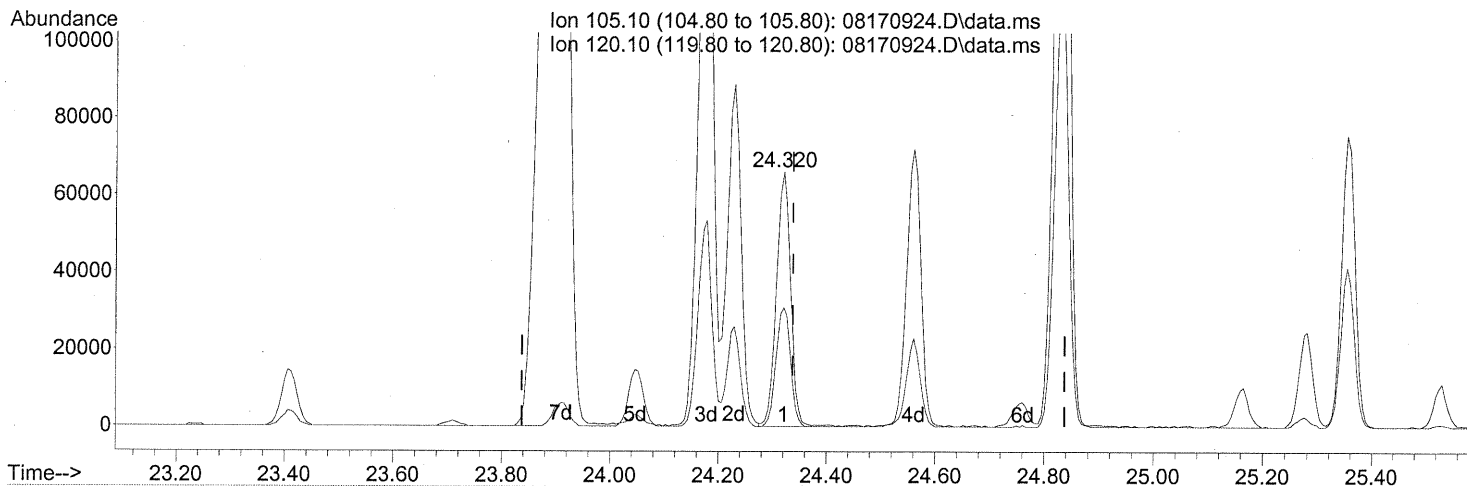
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 3.55ng
 response 152545

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	28.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 3.35ng

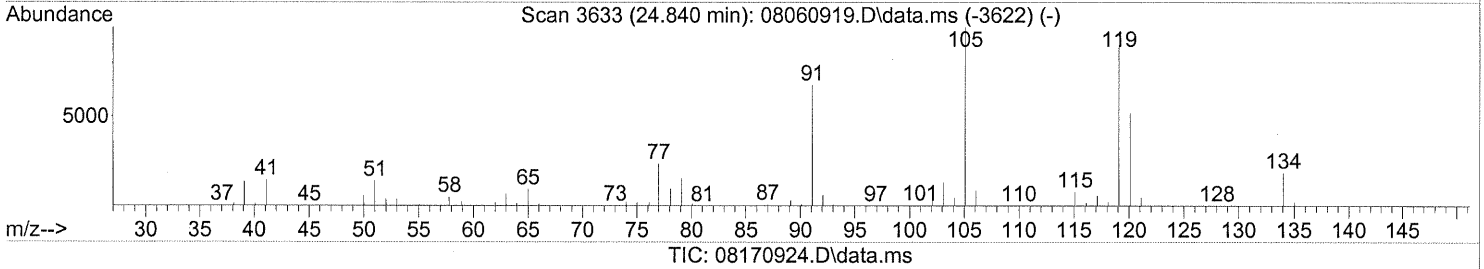
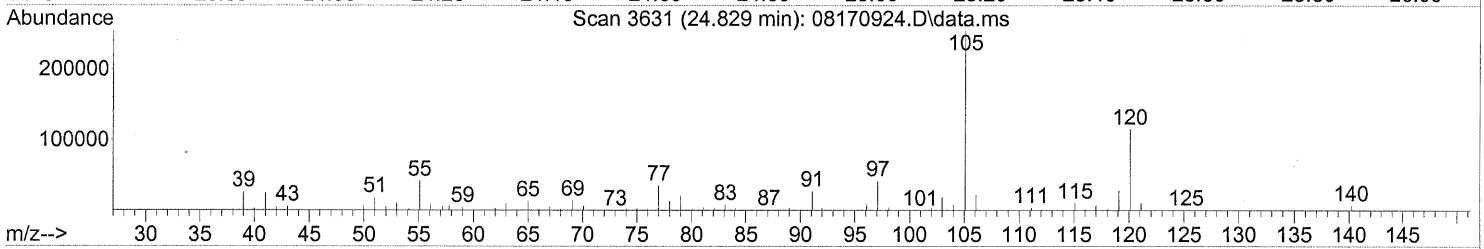
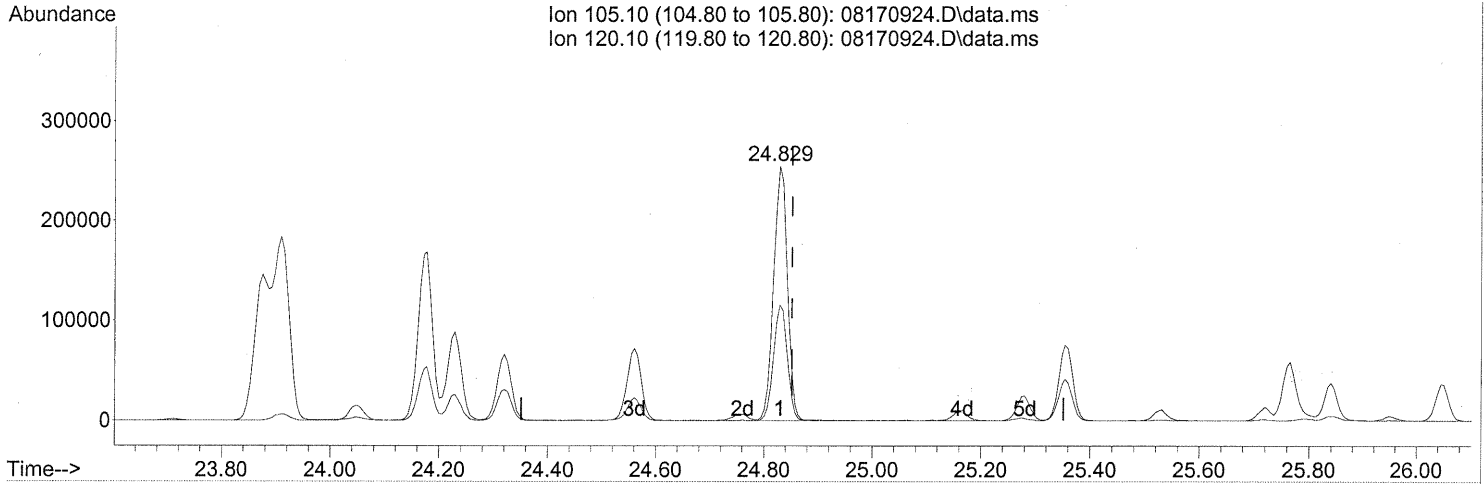
response 121301

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	47.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.829min (-0.023) 12.25ng

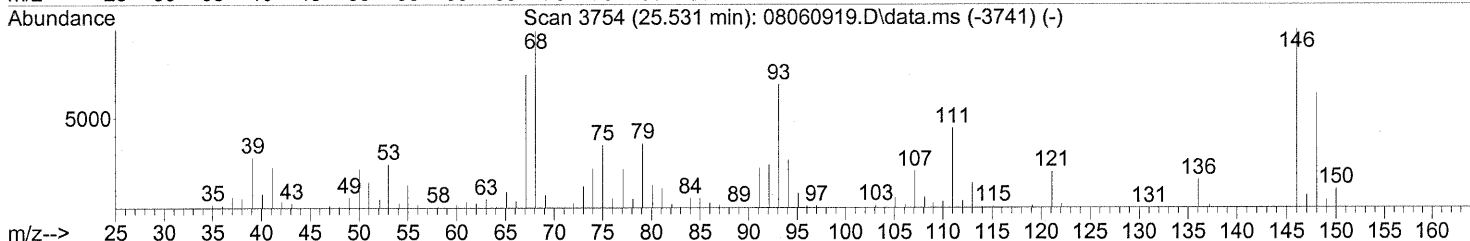
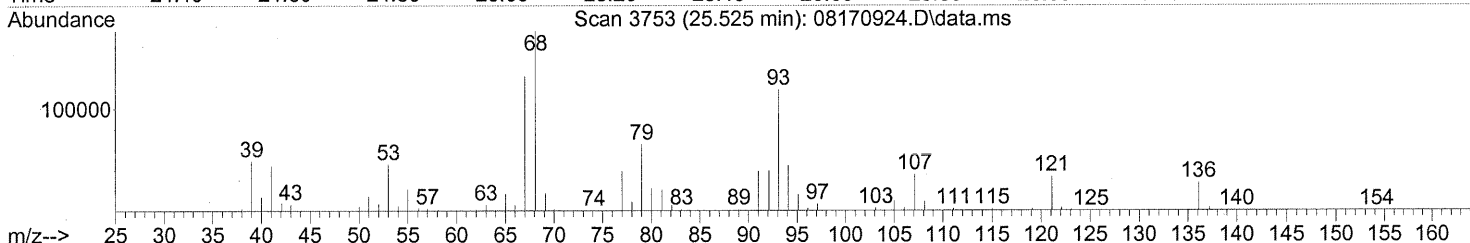
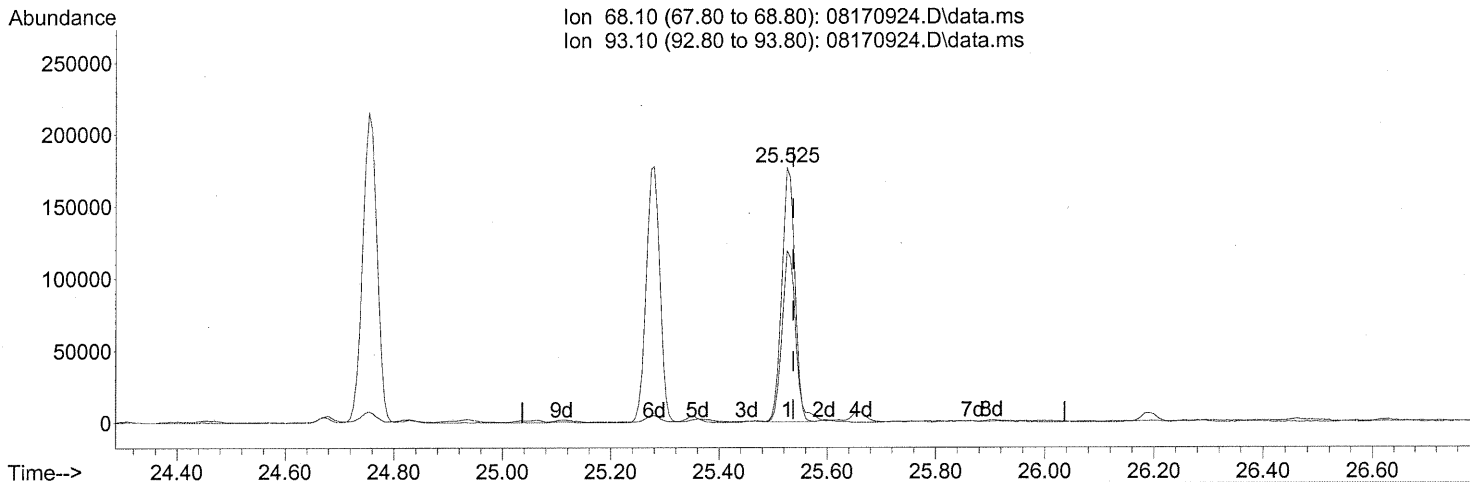
response 453082

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	45.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170924.D\data.ms

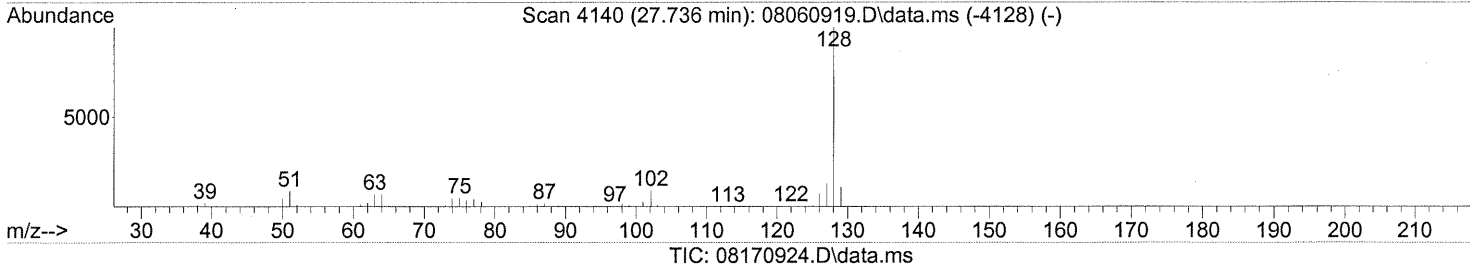
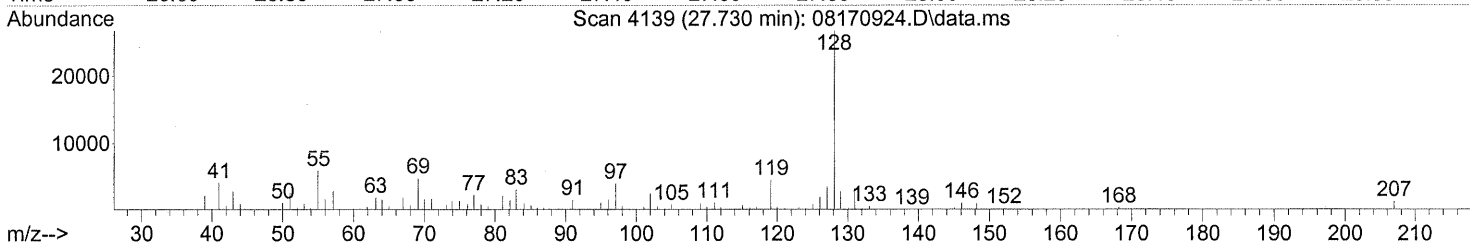
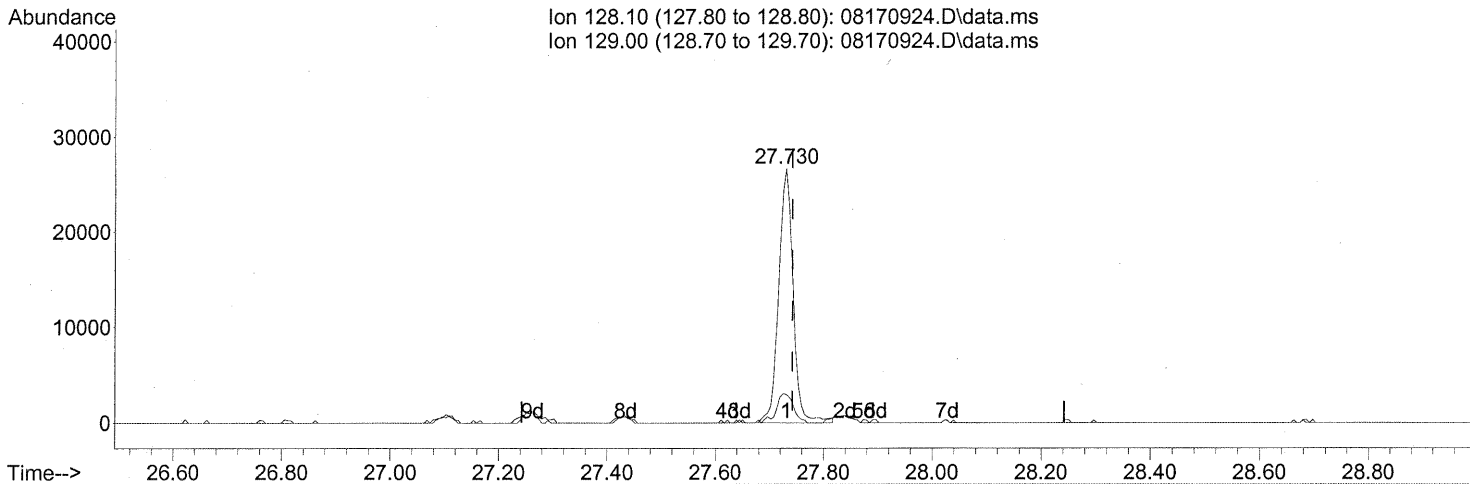
(91) d-Limonene (T)
 25.525min (-0.011) 18.75ng
 response 294818

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	72.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170924.D
 Acq On : 17 Aug 2009 21:28
 Operator : WA
 Sample : P0902721-017 (1000mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 06:48:43 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

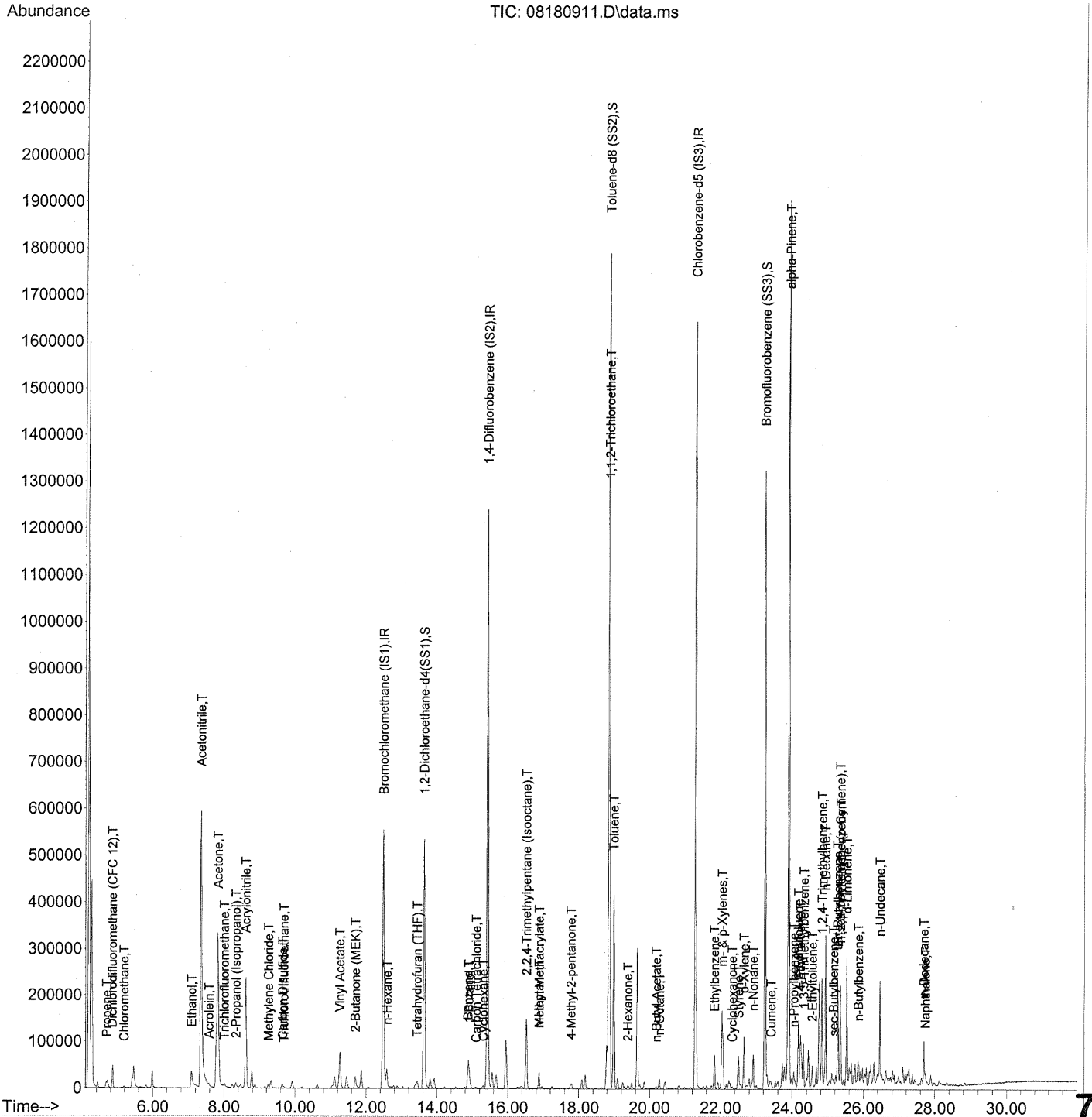


(95) Naphthalene (T)
 27.730min (-0.011) 0.98ng
 response 49281

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	13.74
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180911.D
 Acq On : 18 Aug 2009 21:26
 Operator : WA
 Sample : P0902721-017 dil (200mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:11:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180911.D
 Acq On : 18 Aug 2009 21:26
 Operator : WA
 Sample : P0902721-017 dil (200mL)
 Misc : Env. Health & Engineering 100206 ✓
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:11:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

W 8/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	281403	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1418578	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	681317	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	558667	22.841	ng	-0.03
Spiked Amount	25.000		Recovery	=	91.36%	✓
57) Toluene-d8 (SS2)	18.85	98	1540941	25.884	ng	-0.02
Spiked Amount	25.000		Recovery	=	103.52%	✓
73) Bromofluorobenzene (SS3)	23.23	174	420944	26.813	ng	-0.01
Spiked Amount	25.000		Recovery	=	107.24%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	5795	0.300	ng	# 1
3) Dichlorodifluoromethan...	4.85	85	10392	0.329	ng	99
4) Chloromethane	5.18	50	4505	0.212	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	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	6.37	94	226	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.09	45	94360	7.709	ng	100
11) Acetonitrile	7.35	41	1019935	28.452	ng	99
12) Acrolein	7.57	56	7454	0.800	ng	96
13) Acetone	7.82	58	186028	16.107	ng	89
14) Trichlorofluoromethane	8.01	101	4771	0.167	ng	98
15) 2-Propanol (Isopropanol)	8.33	45	29010	0.639	ng	100
16) Acrylonitrile	8.61	53	3461	0.166	ng	# 27
17) 1,1-Dichloroethene	9.04	96	91	N.D.		
18) 2-Methyl-2-Propanol (t...	9.36	59	675	N.D.		
19) Methylene Chloride	9.25	84	4065	0.262	ng	87
20) 3-Chloro-1-propene (Al...	9.42	41	233	N.D.		
21) Trichlorotrifluoroethane	9.68	151	681	0.066	ng	92
22) Carbon Disulfide	9.64	76	20240	0.370	ng	95
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	11.25	86	7286	3.100	ng	# 77
27) 2-Butanone (MEK)	11.69	72	12063	1.157	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.58	57	21803	0.785	ng	97

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Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180911.D
 Acq On : 18 Aug 2009 21:26
 Operator : WA
 Sample : P0902721-017 dil (200mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:11:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.69	83	278	N.D.		
34) Tetrahydrofuran (THF)	13.43	72	3263	0.294 ng	#	82
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	181	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	39881	2.166 ng		81
41) Benzene	14.87	78	40211	0.645 ng		96
42) Carbon Tetrachloride	15.10	117	1292	0.065 ng	#	77
43) Cyclohexane	15.30	84	3055	0.134 ng	#	79
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	145	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	182410	2.483 ng		99
50) Methyl Methacrylate	16.88	100	3235	0.563 ng	#	1
51) n-Heptane	16.88	71	10119	0.605 ng		95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.78	58	2451	0.164 ng		96
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	134180	9.799 ng	#	6
58) Toluene	18.98	91	349783	5.978 ng		100
59) 2-Hexanone	19.38	43	6848	0.176 ng		80
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	3849	0.084 ng	#	76
63) n-Octane	20.28	57	4263	0.301 ng		97
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.82	91	65531	0.980 ng		98
67) m- & p-Xylenes	22.04	91	169983	3.142 ng		99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	17885	0.457 ng		98
70) o-Xylene	22.65	91	76293	1.406 ng		99
71) n-Nonane	22.91	43	33767	0.937 ng		99
72) 1,1,2,2-Tetrachloroethane	22.70	83	777	N.D.		
74) Cumene	23.41	105	7025	0.103 ng		97
75) alpha-Pinene	23.90	93	875416	24.924 ng		85
76) n-Propylbenzene	24.05	91	31206	0.362 ng		99
77) 3-Ethyltoluene	24.17	105	77990	1.191 ng		99
78) 4-Ethyltoluene	24.23	105	38857	0.612 ng		99
79) 1,3,5-Trimethylbenzene	24.32	105	29917	0.559 ng		100

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Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180911.D
 Acq On : 18 Aug 2009 21:26
 Operator : WA
 Sample : P0902721-017 dil (200mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:11:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

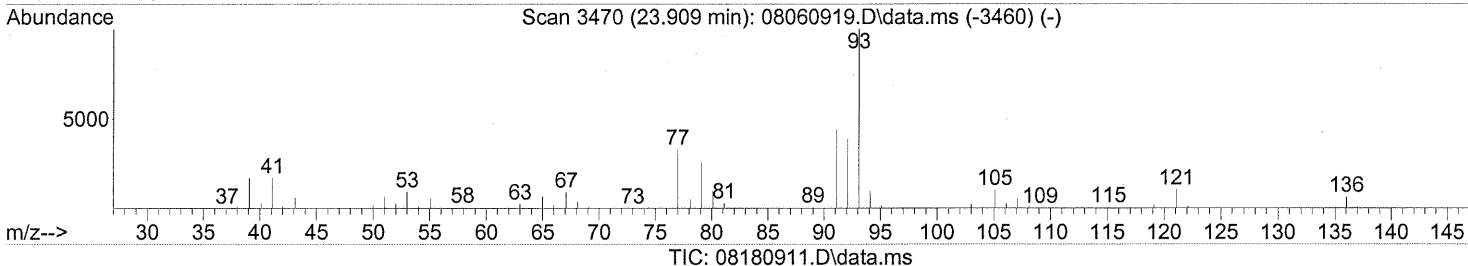
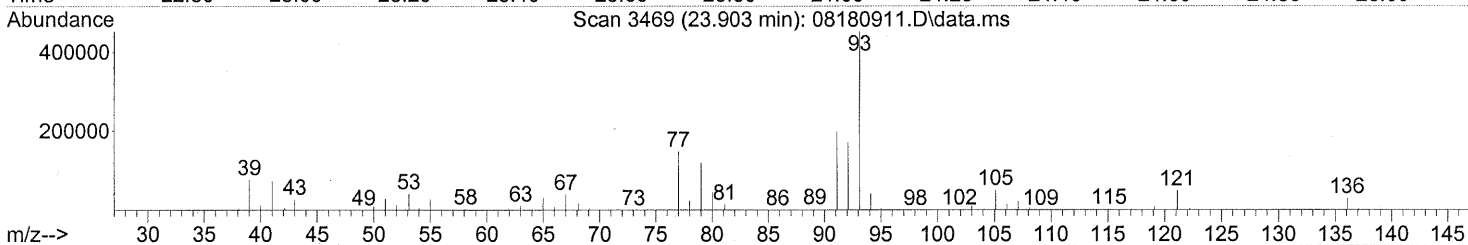
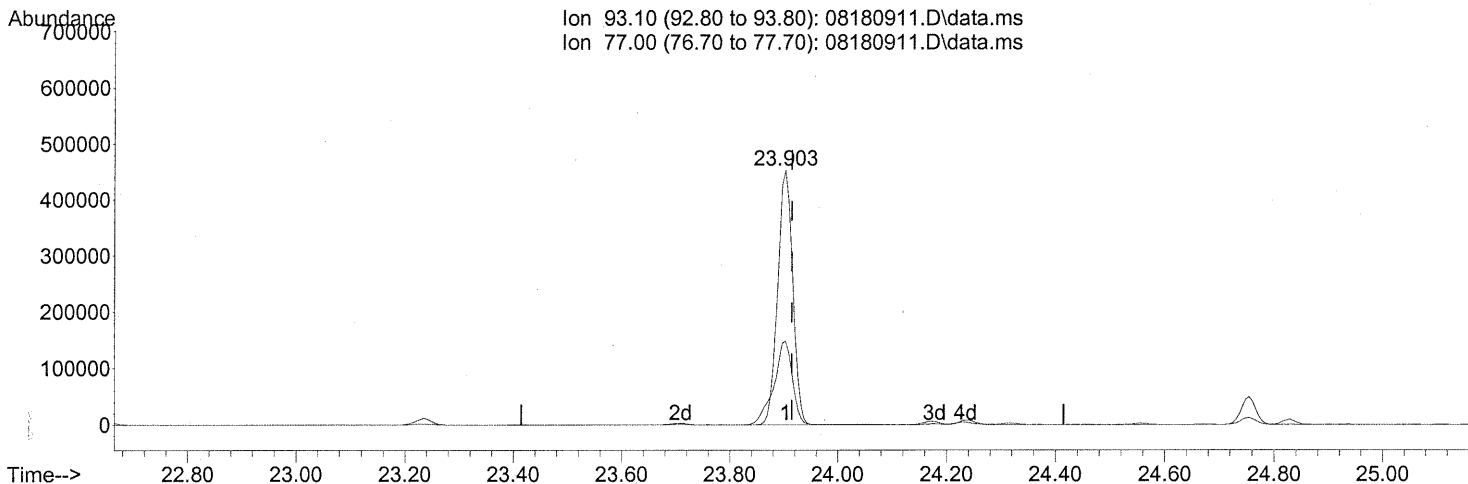
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.83	118	1023	N.D.		
81) 2-Ethyltoluene	24.56	105	31996	0.485	ng	97
82) 1,2,4-Trimethylbenzene	24.83	105	112019	2.053	ng	89
83) n-Decane	24.93	57	113062	3.186	ng	97
84) Benzyl Chloride	25.01	91	106	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	195	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	195	N.D.		
87) sec-Butylbenzene	25.16	105	4562	0.062	ng	95
88) 4-Isopropyltoluene (p-...	25.35	119	60448	0.919	ng	98
89) 1,2,3-Trimethylbenzene	25.35	105	32588	0.586	ng	89
90) 1,2-Dichlorobenzene	25.10	146	195	N.D.		
91) d-Limonene	25.53	68	68253	2.941	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	70686	1.872	ng	94
94) 1,2,4-Trichlorobenzene	27.59	180	775	N.D.		
95) Naphthalene	27.73	128	12525	0.169	ng	95
96) n-Dodecane	27.69	57	31249	0.713	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	2794	0.115	ng	94
99) tert-Butylbenzene	25.27	119	9292	0.176	ng	99
100) n-Butylbenzene	25.86	91	13097	0.215	ng	# 66

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180911.D
 Acq On : 18 Aug 2009 21:26
 Operator : WA
 Sample : P0902721-017 dil (200mL)
 Misc : Env. Health & Engineering 100206
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:11:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(75) alpha-Pinene (T)
 23.903min (-0.011) 24.92ng
 response 875416

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	40.54
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100207

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-018

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: AC00993

Date Collected: 8/6/09
 Date Received: 8/7/09
 Date Analyzed: 8/17/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

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: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100207
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-018

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: AC00993

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

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: _____ Date: 8/24/09 **753**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100207
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P0902721-018

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: AC00993

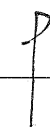
Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

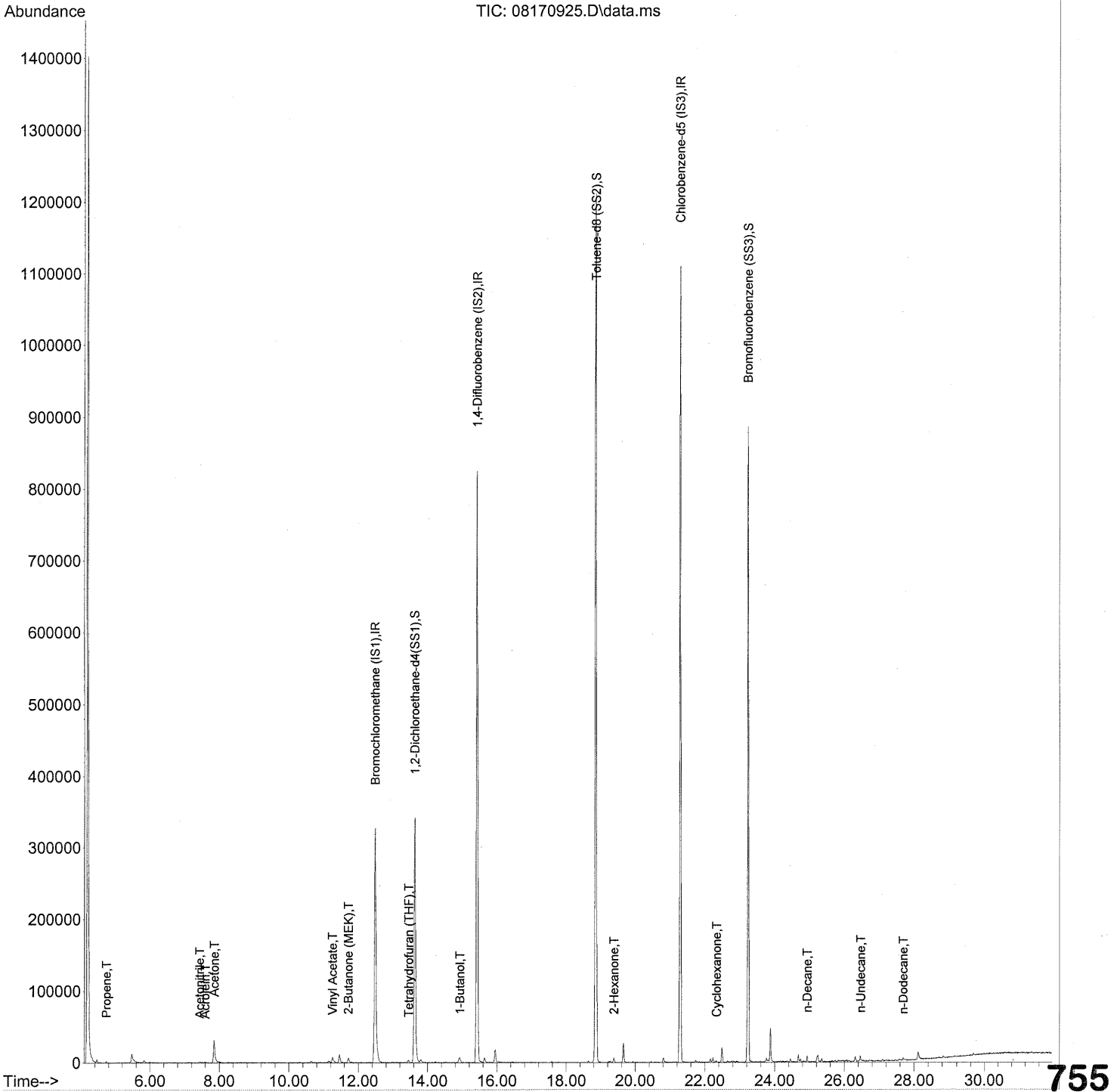
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By:  Date: 8/24/09 **754**

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170925.D
 Acq On : 17 Aug 2009 22:10
 Operator : WA
 Sample : P0902721-018 (1000mL)
 Misc : Env. Health & Engineering 100207
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 11:46:28 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170925.D
 Acq On : 17 Aug 2009 22:10
 Operator : WA
 Sample : P0902721-018 (1000mL)
 Misc : Env. Health & Engineering 100207 ✓
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 11:46:28 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

LM 8/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	185734	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	945380	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	458677	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	371812	23.032	ng	-0.03
Spiked Amount	25.000		Recovery	=	92.12%	✓
57) Toluene-d8 (SS2)	18.85	98	1041666	25.991	ng	-0.01
Spiked Amount	25.000		Recovery	=	103.96%	✓
73) Bromofluorobenzene (SS3)	23.23	174	280240	26.515	ng	-0.01
Spiked Amount	25.000		Recovery	=	106.04%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	724	0.057	ng	# 39
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	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	7.24	45	99	N.D.		
11) Acetonitrile	7.43	41	3487	0.147	ng	93
12) Acrolein	7.59	56	2784	0.453	ng	# 51
13) Acetone	7.85	58	25116	3.295	ng	# 55
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.46	45	175	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	0.00	84	0	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	0.00	76	0	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	11.24	86	1061	0.684	ng	# 68
27) 2-Butanone (MEK)	11.71	72	3234	0.470	ng	# 90
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
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\2009_08\17\
 Data File : 08170925.D
 Acq On : 17 Aug 2009 22:10
 Operator : WA
 Sample : P0902721-018 (1000mL)
 Misc : Env. Health & Engineering 100207
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 11:46:28 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	13.45	72	1078	0.147 ng	#	83
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	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	14.93	56	7389	0.602	ng	80
41) Benzene	14.88	78	675	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	94	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) 2,2,4-Trimethylpentane...	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	17.79	58	92	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	890	N.D.		
59) 2-Hexanone	19.38	43	5931	0.226 ng		99
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.27	43	200	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.04	91	97	N.D.		
67) m- & p-Xylenes	22.04	91	97	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.51	104	1309	N.D.		
70) o-Xylene	22.66	91	133	N.D.		
71) n-Nonane	22.90	43	730	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.24	105	297	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.06	91	363	N.D.		
77) 3-Ethyltoluene	24.18	105	1240	N.D.		
78) 4-Ethyltoluene	24.23	105	381	N.D.		
79) 1,3,5-Trimethylbenzene	24.33	105	319	N.D.		

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170925.D
 Acq On : 17 Aug 2009 22:10
 Operator : WA
 Sample : P0902721-018 (1000mL)
 Misc : Env. Health & Engineering 100207
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 11:46:28 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

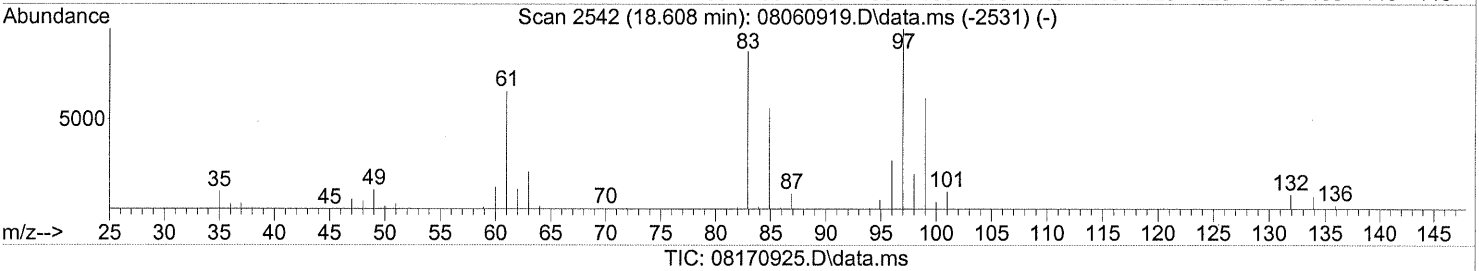
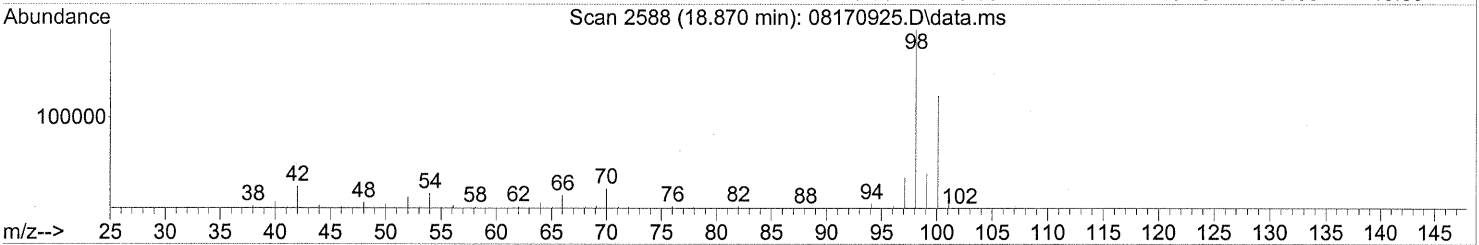
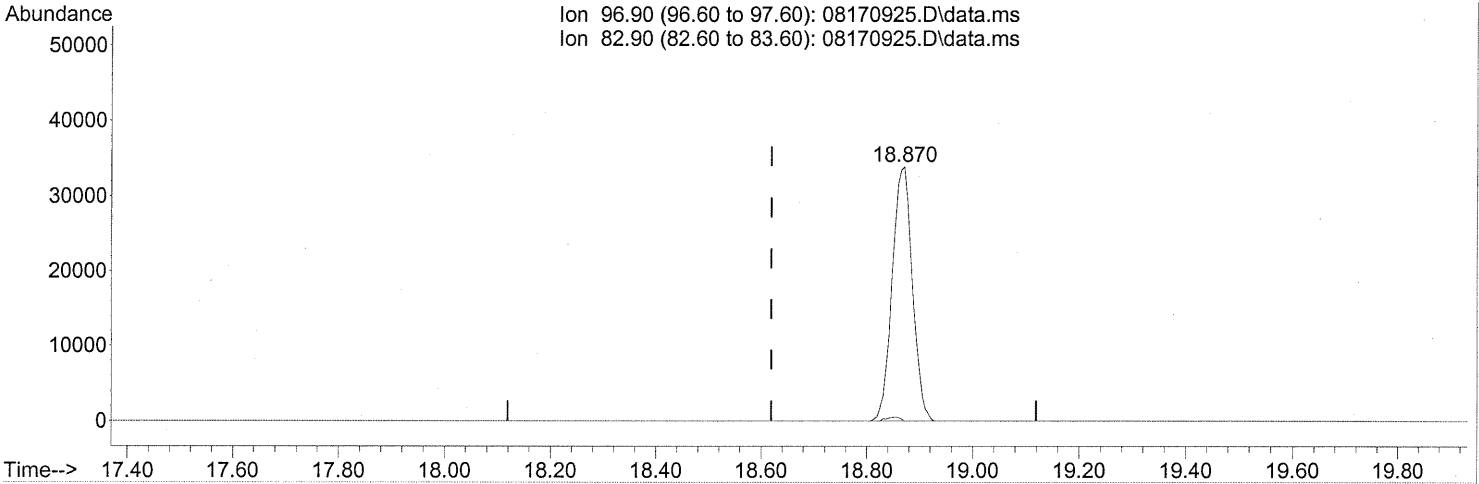
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.56	105	216	N.D.		
82) 1,2,4-Trimethylbenzene	24.83	105	1464	N.D.		
83) n-Decane	24.93	57	3487	0.146	ng	87
84) Benzyl Chloride	25.35	91	92	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.35	105	693	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	600	N.D.		
89) 1,2,3-Trimethylbenzene	25.35	105	693	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	26.46	57	3558	0.140	ng	90
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.74	128	2422	N.D.		
96) n-Dodecane	27.69	57	1481	0.050	ng	# 76
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.33	55	1500	0.092	ng	# 71
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	25.85	91	95	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170925.D
Acq On : 17 Aug 2009 22:10
Operator : WA
Sample : P0902721-018 (1000mL)
Misc : Env. Health & Engineering 100207
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 18 06:48:47 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.870min (+0.251) 9.80ng

response 89445

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP LH 8/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090814-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: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

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: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090814-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: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

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: P Date: 8/24/09 **761**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090814-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:

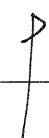
Date Collected: NA
Date Received: NA
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

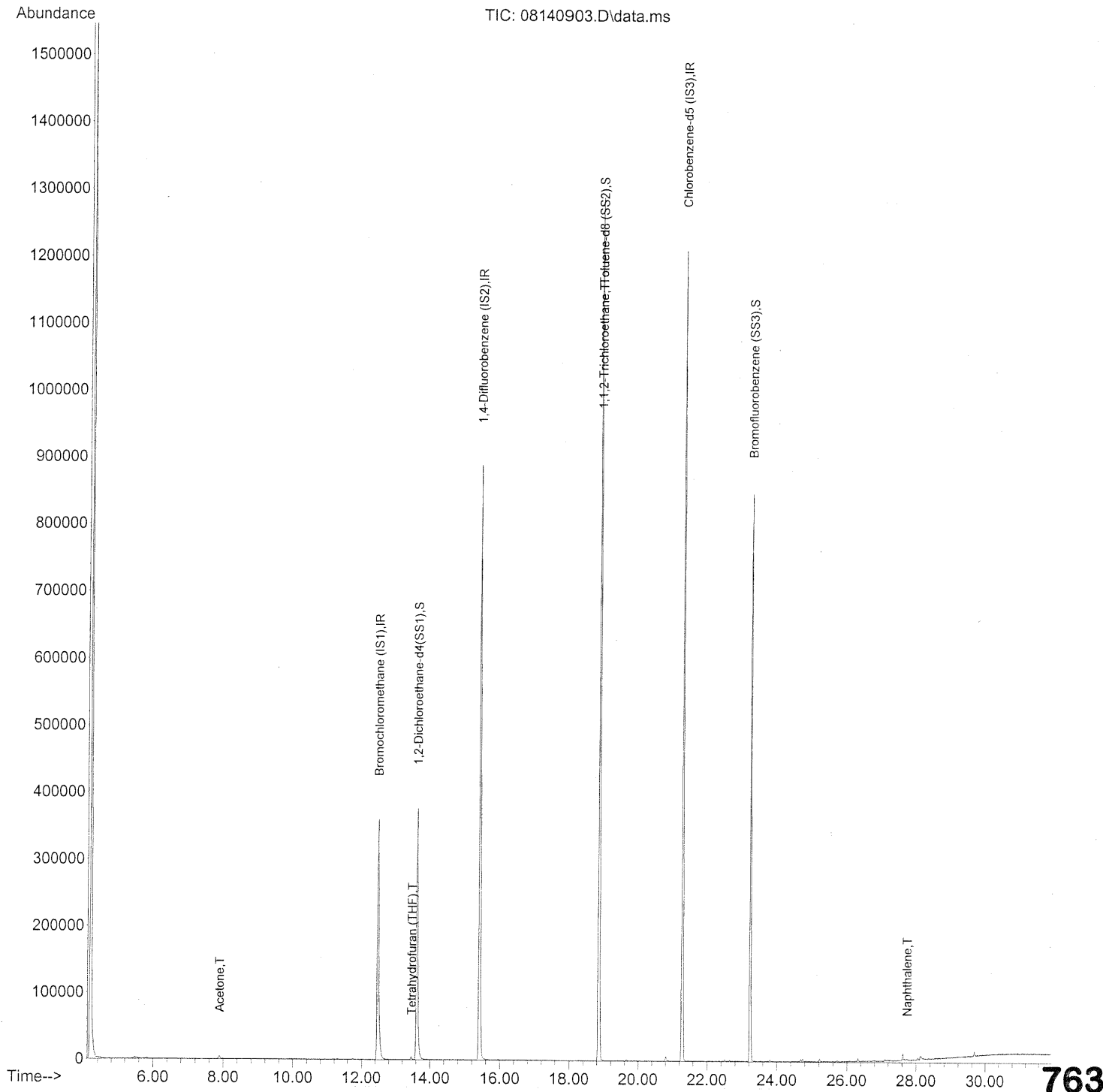
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By:  Date: 8/24/09 **762**

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140903.D
 Acq On : 14 Aug 2009 6:47
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-07200902
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 07:46:02 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140903.D
 Acq On : 14 Aug 2009 6:47
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-07200902
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 07:46:02 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	208590	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1039072	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	509577	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	413035	22.782	ng	-0.03
Spiked Amount	25.000		Recovery	= 91.12%		
57) Toluene-d8 (SS2)	18.85	98	1124028	25.245	ng	-0.01
Spiked Amount	25.000		Recovery	= 100.96%		
73) Bromofluorobenzene (SS3)	23.24	174	276768	23.571	ng	0.00
Spiked Amount	25.000		Recovery	= 94.28%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	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	0.00	45	0	N.D.		
11) Acetonitrile	0.00	41	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	7.89	58	3997	0.467	ng	# 69
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (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) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	0.00	84	0	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	0.00	76	0	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 (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
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\2009_08\14\
 Data File : 08140903.D
 Acq On : 14 Aug 2009 6:47
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-07200902
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 07:46:02 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	13.47	72	1469	0.178 ng	#	85
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	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	14.97	56	184	N.D.		
41) Benzene	14.87	78	932	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	93	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) 2,2,4-Trimethylpentane...	16.52	57	201	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	18.86	97	97383	9.709 ng	pp#	5
58) Toluene	19.00	91	213	N.D.		
59) 2-Hexanone	19.41	43	866	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.04	91	916	N.D.		
67) m- & p-Xylenes	22.04	91	916	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.66	91	930	N.D.		
71) n-Nonane	22.91	43	174	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.23	105	511	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.10	91	690	N.D.		
77) 3-Ethyltoluene	24.17	105	763	N.D.		
78) 4-Ethyltoluene	24.17	105	763	N.D.		
79) 1,3,5-Trimethylbenzene	24.33	105	606	N.D.		

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140903.D
 Acq On : 14 Aug 2009 6:47
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-07200902
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 07:46:02 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 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	24.56	105	194	N.D.		
82) 1,2,4-Trimethylbenzene	24.83	105	715	N.D.		
83) n-Decane	24.94	57	234	N.D.		
84) Benzyl Chloride	25.00	91	210	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	25.37	105	557	N.D.		
88) 4-Isopropyltoluene (p-...	25.36	119	86	N.D.		
89) 1,2,3-Trimethylbenzene	25.37	105	557	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	26.46	57	472	N.D.		
94) 1,2,4-Trichlorobenzene	27.59	180	132	N.D.		
95) Naphthalene	27.75	128	3658	0.066 ng	#	71
96) n-Dodecane	27.70	57	1075	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.33	55	184	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090817-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: 8/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

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: _____ Date: 8/24/09 **767**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902721
CAS Sample ID: P090817-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:

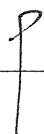
Date Collected: NA
Date Received: NA
Date Analyzed: 8/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

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:  Date: 8/24/09 **768**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090817-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: 8/17/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

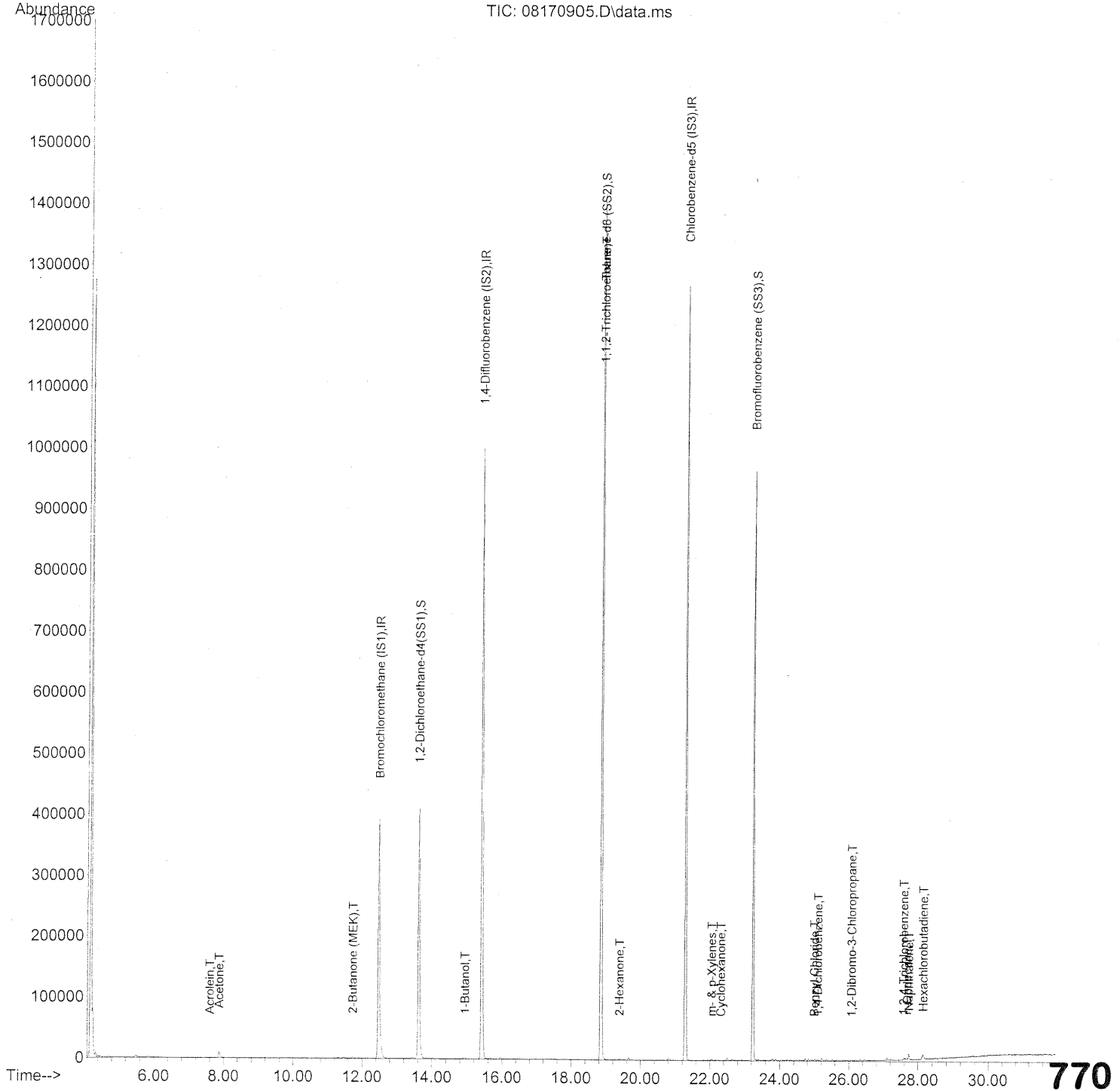
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: _____ Date: 8/24/09 **769**
 TO15scan.xls - 75 Compounds - PageNo.:

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170905.D
 Acq On : 17 Aug 2009 6:44
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 08:03:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170905.D
 Acq On : 17 Aug 2009 6:44
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 08:03:35 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	224053	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	1126881	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	537104	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	454292	23.328	ng	-0.03
Spiked Amount	25.000		Recovery	=	93.32%	✓
57) Toluene-d8 (SS2)	18.85	98	1208907	25.759	ng	-0.01
Spiked Amount	25.000		Recovery	=	103.04%	✓
73) Bromofluorobenzene (SS3)	23.24	174	316737	25.592	ng	0.00
Spiked Amount	25.000		Recovery	=	102.36%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.74	42	669	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	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	436	N.D.		
11) Acetonitrile	0.00	41	0	N.D.		
12) Acrolein	7.60	56	373	0.050 ng	#	16
13) Acetone	7.87	58	7744	<u>0.842</u> ng	#	80
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.39	45	273	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	9.25	84	329	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.66	76	937	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 (MEK)	11.73	72	712	0.086 ng	#	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
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\2009_08\17\
 Data File : 08170905.D
 Acq On : 17 Aug 2009 6:44
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 08:03:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	13.45	72	348	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	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	2050	0.140	ng	80
41) Benzene	14.87	78	1161	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	307	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) 2,2,4-Trimethylpentane...	16.52	57	93	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	18.86	97	104955	9.648 ng	#	5
58) Toluene	18.98	91	1307	N.D.		
59) 2-Hexanone	19.39	43	1866	0.061 ng		84
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.20	43	187	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	21.36	112	403	N.D.		
66) Ethylbenzene	21.82	91	811	N.D.		
67) m- & p-Xylenes	22.05	91	2447	0.057 ng	#	47
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.52	104	739	N.D.		
70) o-Xylene	22.65	91	1126	N.D.		
71) n-Nonane	22.92	43	500	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.41	105	1465	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.05	91	1425	N.D.		
77) 3-Ethyltoluene	24.18	105	2289	N.D.		
78) 4-Ethyltoluene	24.23	105	1682	N.D.		
79) 1,3,5-Trimethylbenzene	24.33	105	1397	N.D.		

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170905.D
 Acq On : 17 Aug 2009 6:44
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 08:03:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	421	N.D.		
81) 2-Ethyltoluene	24.57	105	1594	N.D.		
82) 1,2,4-Trimethylbenzene	24.83	105	2148	N.D.		
83) n-Decane	24.93	57	544	N.D.		
84) Benzyl Chloride	25.00	91	2605	0.065 ng		66
85) 1,3-Dichlorobenzene	25.03	146	844	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	1332	0.057 ng		77
87) sec-Butylbenzene	25.17	105	1016	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	927	N.D.		
89) 1,2,3-Trimethylbenzene	25.35	105	1341	N.D.		
90) 1,2-Dichlorobenzene	25.53	146	768	N.D.		
91) d-Limonene	25.53	68	111	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.07	157	376	0.053 ng		96
93) n-Undecane	26.46	57	1138	N.D.		
94) 1,2,4-Trichlorobenzene	27.59	180	1483	0.104 ng	#	78
95) Naphthalene	27.74	128	11504	0.197 ng		90
96) n-Dodecane	27.69	57	1764	0.051 ng		75
97) Hexachlorobutadiene	28.15	225	901	0.100 ng		99
98) Cyclohexanone	22.32	55	1002	0.052 ng	#	57
99) tert-Butylbenzene	24.83	119	629	N.D.		
100) n-Butylbenzene	25.87	91	1296	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902721
CAS Sample ID: P090818-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: 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

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: _____ Date: 8/24/09 **775**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902721
CAS Sample ID: P090818-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:

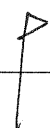
Date Collected: NA
Date Received: NA
Date Analyzed: 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

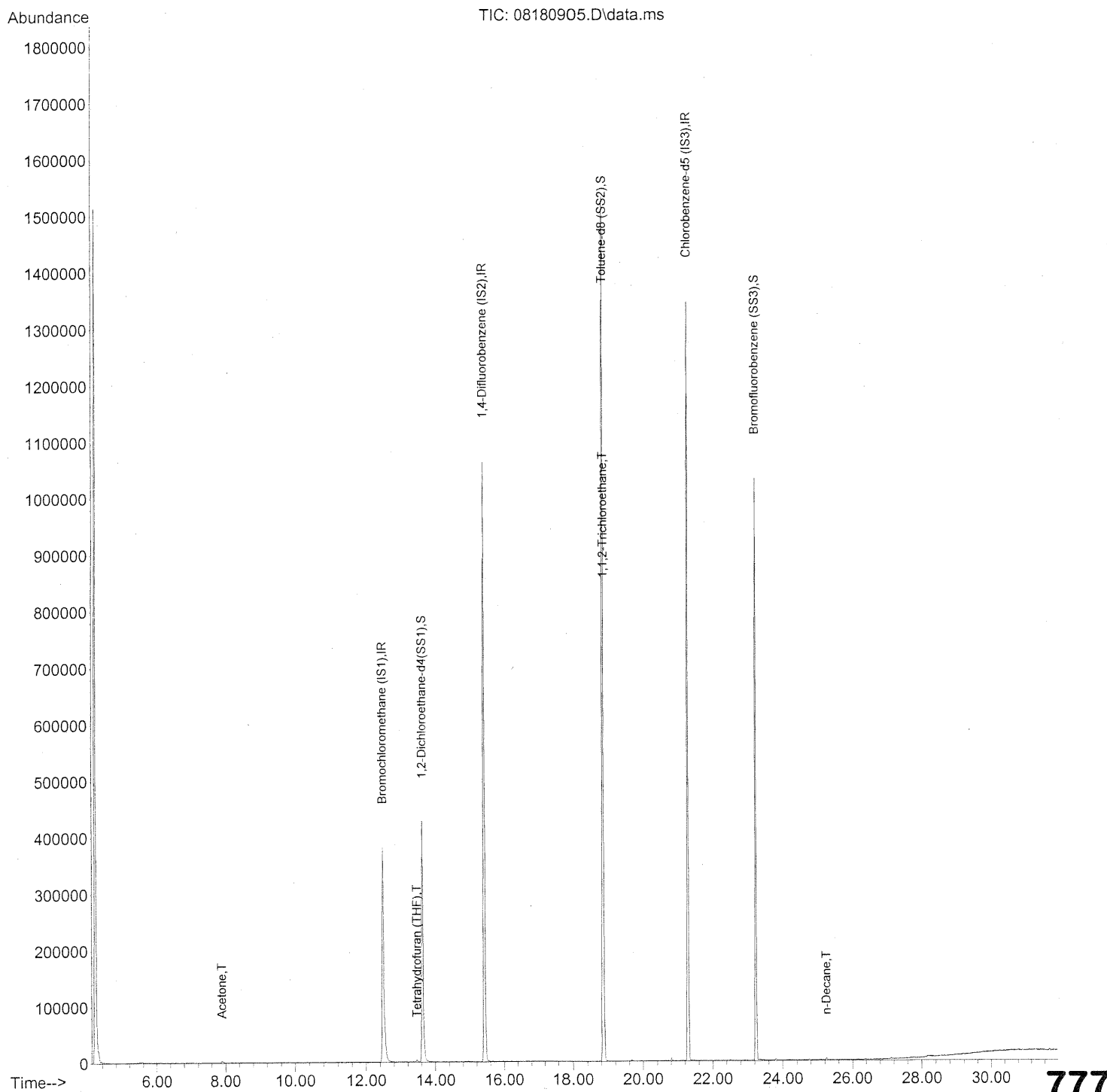
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By:  Date: 8/24/09 **776**

Data Path : J:\MS13\DATA\2009_08\18\
Data File : 08180905.D
Acq On : 18 Aug 2009 17:22
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-08140906
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 17:57:10 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180905.D
 Acq On : 18 Aug 2009 17:22
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 17:57:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	236105	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1203686	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	561375	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	478272	23.306	ng	-0.03
Spiked Amount	25.000		Recovery	=	93.24%	
57) Toluene-d8 (SS2)	18.85	98	1294113	26.383	ng	-0.01
Spiked Amount	25.000		Recovery	=	105.52%	
73) Bromofluorobenzene (SS3)	23.23	174	330455	25.546	ng	-0.01
Spiked Amount	25.000		Recovery	=	102.20%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	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	87	N.D.		
11) Acetonitrile	0.00	41	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	7.90	58	2381	0.246	ng	# 85
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (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) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	0.00	84	0	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	0.00	76	0	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 (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180905.D
 Acq On : 18 Aug 2009 17:22
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 17:57:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	13.47	72	1109	0.119 ng	#	80
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	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	14.96	56	151	N.D.		
41) Benzene	14.88	78	1018	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	729	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) 2,2,4-Trimethylpentane...	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	18.87	97	110795	9.535 ng 77#		4
58) Toluene	18.98	91	91	N.D.		
59) 2-Hexanone	19.39	43	94	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.03	91	113	N.D.		
67) m- & p-Xylenes	22.03	91	113	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	22.50	43	453	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.34	105	86	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.03	91	86	N.D.		
77) 3-Ethyltoluene	24.18	105	103	N.D.		
78) 4-Ethyltoluene	24.23	105	333	N.D.		
79) 1,3,5-Trimethylbenzene	24.32	105	148	N.D.		

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180905.D
 Acq On : 18 Aug 2009 17:22
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 17:57:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 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	24.56	105	86	N.D.		
82) 1,2,4-Trimethylbenzene	24.56	105	86	N.D.		
83) n-Decane	25.25	57	3350	0.115	ng	# 42
84) Benzyl Chloride	24.95	91	93	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) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	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	26.40	57	100	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.77	128	1948	N.D.		
96) n-Dodecane	27.70	57	326	N.D.		
97) Hexachlorobutadiene	28.15	225	96	N.D.		
98) Cyclohexanone	22.33	55	575	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		

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

QC SUMMARY FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Environmental Health & Engineering, Incorporated
Client Project ID: 16512

CAS Project ID: P0902721

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:

Date(s) Collected: 8/6/09
Date(s) Received: 8/7/09
Date(s) Analyzed: 8/14 - 8/18/09

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	P090814-MB	91	70-130	101	70-130	94	70-130	
Method Blank	P090817-MB	93	70-130	103	70-130	102	70-130	
Method Blank	P090818-MB	93	70-130	106	70-130	102	70-130	
Lab Control Sample	P090814-LCS	91	70-130	101	70-130	97	70-130	
Lab Control Sample	P090817-LCS	94	70-130	105	70-130	105	70-130	
Lab Control Sample	P090818-LCS	92	70-130	105	70-130	105	70-130	
100214	P0902721-001	93	70-130	104	70-130	105	70-130	
100214	P0902721-001DUP	94	70-130	104	70-130	104	70-130	
100215	P0902721-002	93	70-130	100	70-130	93	70-130	
100216	P0902721-003	93	70-130	100	70-130	95	70-130	
100217	P0902721-004	93	70-130	101	70-130	95	70-130	
100218	P0902721-005	92	70-130	99	70-130	93	70-130	
100219	P0902721-006	92	70-130	101	70-130	94	70-130	
99952	P0902721-007	92	70-130	100	70-130	94	70-130	
99953	P0902721-008	91	70-130	100	70-130	94	70-130	
99954	P0902721-009	92	70-130	100	70-130	94	70-130	
99955	P0902721-010	93	70-130	100	70-130	95	70-130	
99956	P0902721-011	94	70-130	105	70-130	104	70-130	
99957	P0902721-012	93	70-130	104	70-130	104	70-130	
100202	P0902721-013	92	70-130	104	70-130	105	70-130	
100203	P0902721-014	92	70-130	105	70-130	105	70-130	
100204	P0902721-015	92	70-130	104	70-130	103	70-130	
100205	P0902721-016	92	70-130	105	70-130	106	70-130	
100206	P0902721-017	90	70-130	105	70-130	107	70-130	
100207	P0902721-018	92	70-130	104	70-130	106	70-130	

Verified By: _____ Date: 8/24/09 **782**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090814-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: 8/14/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	26.3	24.0	91	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	24.4	94	61-118	
74-87-3	Chloromethane	25.0	27.6	110	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	27.3	105	65-122	
75-01-4	Vinyl Chloride	25.3	26.3	104	57-132	
106-99-0	1,3-Butadiene	26.8	29.6	110	66-161	
74-83-9	Bromomethane	25.8	30.4	118	67-130	
75-00-3	Chloroethane	25.5	25.7	101	68-123	
64-17-5	Ethanol	130	130	100	50-155	
75-05-8	Acetonitrile	26.0	23.2	89	48-148	
107-02-8	Acrolein	26.3	26.3	100	67-138	
67-64-1	Acetone	132	135	102	59-121	
75-69-4	Trichlorofluoromethane	26.3	26.2	100	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	45.2	94	54-126	
107-13-1	Acrylonitrile	25.8	28.3	110	65-134	
75-35-4	1,1-Dichloroethene	27.5	30.1	109	70-123	
75-09-2	Methylene Chloride	26.8	25.6	96	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	23.0	85	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	31.9	116	69-126	
75-15-0	Carbon Disulfide	26.0	26.6	102	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	26.7	105	69-125	
75-34-3	1,1-Dichloroethane	26.5	26.9	102	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	27.0	103	72-132	
108-05-4	Vinyl Acetate	126	117	93	73-158	
78-93-3	2-Butanone (MEK)	26.8	28.0	104	68-126	

Verified By: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090814-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: 8/14/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	27.8	103	69-124	
141-78-6	Ethyl Acetate	52.0	55.4	107	65-126	
110-54-3	n-Hexane	26.0	25.1	97	63-125	
67-66-3	Chloroform	27.5	28.6	104	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	25.4	96	65-124	
107-06-2	1,2-Dichloroethane	26.3	26.3	100	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	27.5	106	69-127	
71-43-2	Benzene	25.8	26.2	102	68-122	
56-23-5	Carbon Tetrachloride	26.3	29.2	111	68-137	
110-82-7	Cyclohexane	51.8	54.9	106	68-121	
78-87-5	1,2-Dichloropropane	26.0	27.4	105	69-128	
75-27-4	Bromodichloromethane	26.3	27.7	105	71-131	
79-01-6	Trichloroethene	25.8	30.1	117	72-122	
123-91-1	1,4-Dioxane	26.0	28.4	109	73-127	
80-62-6	Methyl Methacrylate	52.8	61.1	116	80-133	
142-82-5	n-Heptane	25.8	27.0	105	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	26.3	107	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	28.0	104	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	28.9	107	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	28.5	110	76-125	
108-88-3	Toluene	26.8	29.2	109	74-119	
591-78-6	2-Hexanone	27.0	27.6	102	64-118	
124-48-1	Dibromochloromethane	28.3	33.2	117	79-129	
106-93-4	1,2-Dibromoethane	26.3	30.6	116	79-125	
123-86-4	n-Butyl Acetate	27.5	25.2	92	70-136	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090814-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: 8/14/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	27.7	105	75-126	
127-18-4	Tetrachloroethene	25.3	30.7	121	72-125	
108-90-7	Chlorobenzene	26.5	30.4	115	74-121	
100-41-4	Ethylbenzene	26.3	29.4	112	76-120	
179601-23-1	m,p-Xylenes	51.5	56.6	110	75-120	
75-25-2	Bromoform	26.5	31.7	120	76-143	
100-42-5	Styrene	26.3	30.8	117	78-124	
95-47-6	o-Xylene	26.0	29.0	112	76-121	
111-84-2	n-Nonane	25.8	25.9	100	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	29.7	110	77-126	
98-82-8	Cumene	25.3	28.1	111	78-125	
80-56-8	alpha-Pinene	24.8	27.8	112	78-125	
103-65-1	n-Propylbenzene	25.3	28.2	111	80-127	
622-96-8	4-Ethyltoluene	26.3	29.3	111	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	30.3	114	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	29.8	117	76-123	
100-44-7	Benzyl Chloride	26.8	29.9	112	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	31.5	121	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	30.2	115	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	31.3	121	75-124	
5989-27-5	d-Limonene	26.5	29.5	111	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	34.5	128	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	33.7	123	70-139	
91-20-3	Naphthalene	25.0	29.6	118	69-141	
87-68-3	Hexachlorobutadiene	26.8	30.3	113	68-138	

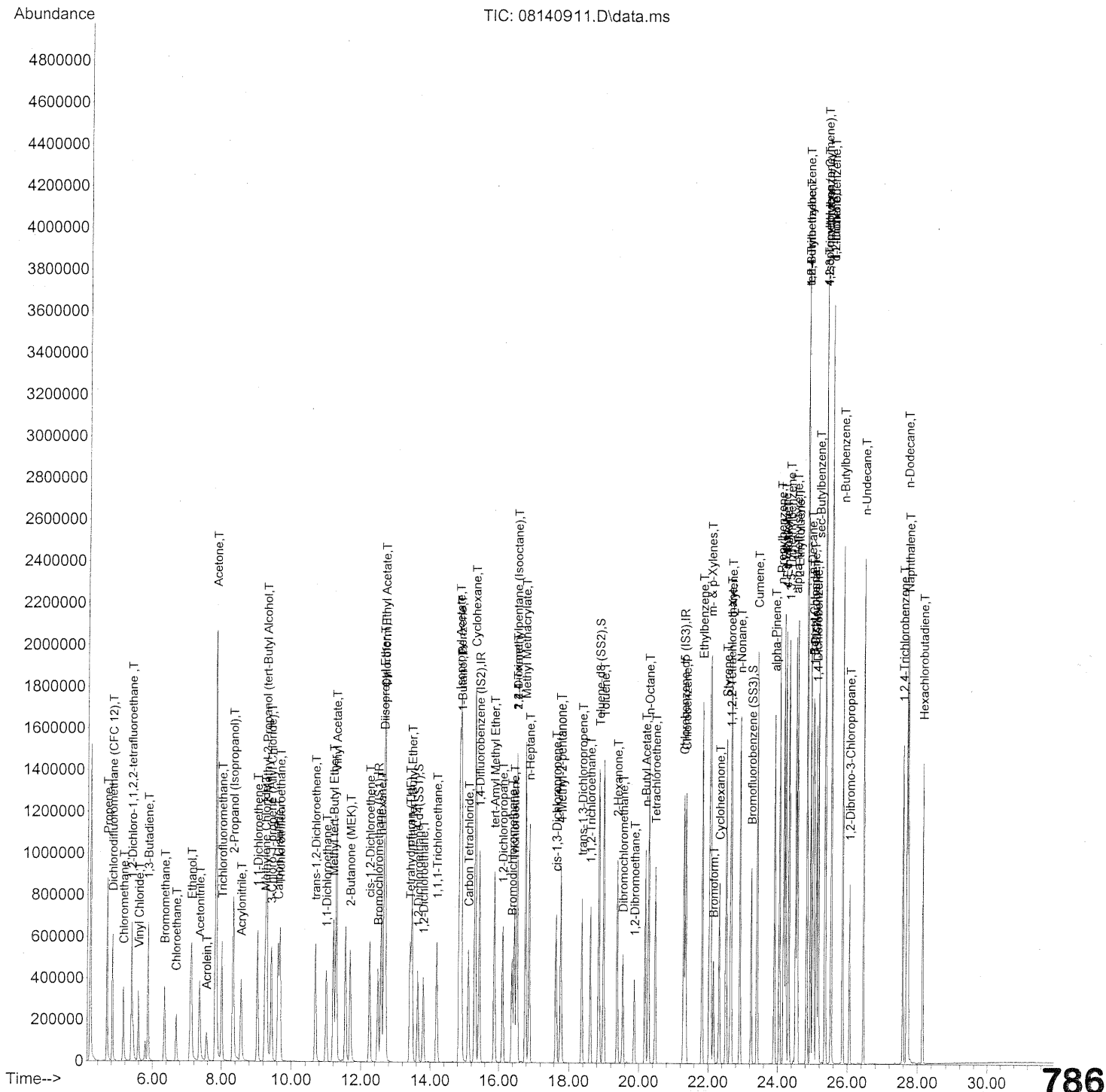
Verified By: _____

Date: 8/24/09

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Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140911.D
Acq On : 14 Aug 2009 12:37
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-07200902/S20-07270906
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:06:16 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140911.D
 Acq On : 14 Aug 2009 12:37
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-07200902/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:06:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.49	130	230799	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1147987	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	553587	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.64	65	455390	22.701	ng	-0.02
Spiked Amount	25.000		Recovery	=	90.80%	
57) Toluene-d8 (SS2)	18.85	98	1218934	25.200	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.80%	
73) Bromofluorobenzene (SS3)	23.24	174	309171	24.237	ng	0.00
Spiked Amount	25.000		Recovery	=	96.96%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	379776	23.979	ng	99
3) Dichlorodifluoromethan...	4.83	85	631382	24.391	ng	99
4) Chloromethane	5.14	50	480345	27.618	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	287002	27.289	ng	97
6) Vinyl Chloride	5.59	62	440009	26.333	ng	98
7) 1,3-Butadiene	5.86	54	354449	29.595	ng	99
8) Bromomethane	6.35	94	308830	30.361	ng	99
9) Chloroethane	6.69	64	249551	25.695	ng	98
10) Ethanol	7.13	45	1305163	130.007	ng	100
11) Acetonitrile	7.37	41	680675	23.152	ng	100
12) Acrolein	7.57	56	200839	26.282	ng	98
13) Acetone	7.83	58	1278304	134.951	ng	95
14) Trichlorofluoromethane	8.01	101	613137	26.199	ng	100
15) 2-Propanol (Isopropanol)	8.34	45	1682990	45.212	ng	100
16) Acrylonitrile	8.56	53	483504	28.250	ng	98
17) 1,1-Dichloroethene	9.03	96	327025	30.094	ng	87
18) 2-Methyl-2-Propanol (t...	9.29	59	1748616	52.923	ng	98
19) Methylene Chloride	9.25	84	326039	25.630	ng	93
20) 3-Chloro-1-propene (Al...	9.43	41	564167	23.006	ng	96
21) Trichlorotrifluoroethane	9.67	151	271810	31.942	ng	96
22) Carbon Disulfide	9.62	76	1194449	26.633	ng	99
23) trans-1,2-Dichloroethene	10.68	61	513015	26.680	ng	94
24) 1,1-Dichloroethane	10.99	63	627261	26.901	ng	100
25) Methyl tert-Butyl Ether	11.20	73	967704	27.000	ng	100
26) Vinyl Acetate	11.28	86	225562	117.012	ng	# 90
27) 2-Butanone (MEK)	11.68	72	239887	28.048	ng	96
28) cis-1,2-Dichloroethene	12.25	61	497649	27.804	ng	93
29) Diisopropyl Ether	12.66	87	332612	29.060	ng	# 1
30) Ethyl Acetate	12.68	61	246849	55.404	ng	100
31) n-Hexane	12.58	57	572876	25.135	ng	97

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140911.D
 Acq On : 14 Aug 2009 12:37
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-07200902/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:06:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	574316	28.621	ng	100
34) Tetrahydrofuran (THF)	13.41	72	231488	25.392	ng	98
35) Ethyl tert-Butyl Ether	13.47	87	382454	25.830	ng	93
36) 1,2-Dichloroethane	13.80	62	482885	26.331	ng	97
38) 1,1,1-Trichloroethane	14.19	97	535470	27.497	ng	97
39) Isopropyl Acetate	14.84	61	459595	53.969	ng	# 90
40) 1-Butanol	14.90	56	731969	49.129	ng	# 73
41) Benzene	14.88	78	1322748	26.207	ng	99
42) Carbon Tetrachloride	15.11	117	469684	29.198	ng	99
43) Cyclohexane	15.31	84	1014249	54.864	ng	95
44) tert-Amyl Methyl Ether	15.87	73	989529	26.107	ng	98
45) 1,2-Dichloropropane	16.11	63	347334	27.400	ng	100
46) Bromodichloromethane	16.38	83	461062	27.720	ng	98
47) Trichloroethene	16.45	130	342534	30.089	ng	99
48) 1,4-Dioxane	16.52	88	274345	28.441	ng	78
49) 2,2,4-Trimethylpentane...	16.52	57	1546469	26.012	ng	95
50) Methyl Methacrylate	16.77	100	283763	61.072	ng	92
51) n-Heptane	16.89	71	365487	26.982	ng	97
52) cis-1,3-Dichloropropene	17.65	75	553291	26.336	ng	100
53) 4-Methyl-2-pentanone	17.77	58	339274	27.969	ng	100
54) trans-1,3-Dichloropropene	18.36	75	578204	28.946	ng	98
55) 1,1,2-Trichloroethane	18.60	97	316232	28.536	ng	97
58) Toluene	18.99	91	1389092	29.220	ng	99
59) 2-Hexanone	19.37	43	871074	27.555	ng	97
60) Dibromochloromethane	19.54	129	373263	33.186	ng	99
61) 1,2-Dibromoethane	19.87	107	364810	30.593	ng	99
62) n-Butyl Acetate	20.18	43	939956	25.226	ng	99
63) n-Octane	20.28	57	318390	27.703	ng	94
64) Tetrachloroethene	20.47	166	337389	30.670	ng	99
65) Chlorobenzene	21.35	112	893468	30.378	ng	100
66) Ethylbenzene	21.82	91	1595412	29.358	ng	99
67) m- & p-Xylenes	22.06	91	2486295	56.558	ng	97
68) Bromoform	22.15	173	296403	31.738	ng	100
69) Styrene	22.51	104	978200	30.786	ng	99
70) o-Xylene	22.66	91	1276877	28.970	ng	97
71) n-Nonane	22.92	43	757706	25.872	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	580766	29.692	ng	100
74) Cumene	23.41	105	1567158	28.148	ng	100
75) alpha-Pinene	23.90	93	792717	27.777	ng	99
76) n-Propylbenzene	24.05	91	1974153	28.207	ng	99
77) 3-Ethyltoluene	24.18	105	1599482	30.061	ng	99
78) 4-Ethyltoluene	24.23	105	1513038	29.347	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	1316189	30.269	ng	97

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140911.D
 Acq On : 14 Aug 2009 12:37
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-07200902/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:06:16 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	714453	30.690	ng	96
81) 2-Ethyltoluene	24.57	105	1553820	28.959	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1321423	29.800	ng	99
83) n-Decane	24.94	57	785896	27.259	ng	98
84) Benzyl Chloride	25.01	91	1243378	29.913	ng	98
85) 1,3-Dichlorobenzene	25.03	146	707932	31.545	ng	98
86) 1,4-Dichlorobenzene	25.11	146	722964	30.212	ng	98
87) sec-Butylbenzene	25.17	105	1743537	29.106	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1575397	29.493	ng	98
89) 1,2,3-Trimethylbenzene	25.36	105	1334676	29.545	ng	96
90) 1,2-Dichlorobenzene	25.53	146	666533	31.325	ng	99
91) d-Limonene	25.53	68	555624	29.465	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.06	157	252715	34.532	ng	86
93) n-Undecane	26.46	57	838749	27.345	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	493098	33.705	ng	99
95) Naphthalene	27.73	128	1784325	29.629	ng	100
96) n-Dodecane	27.70	57	844652	23.703	ng	99
97) Hexachlorobutadiene	28.15	225	281493	30.251	ng	99
98) Cyclohexanone	22.32	55	477473	24.242	ng	97
99) tert-Butylbenzene	24.83	119	1270467	29.603	ng	99
100) n-Butylbenzene	25.86	91	1479110	29.946	ng	99

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090817-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: 8/17/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	26.3	23.1	88	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	23.6	91	61-118	
74-87-3	Chloromethane	25.0	25.0	100	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	25.1	97	65-122	
75-01-4	Vinyl Chloride	25.3	23.8	94	57-132	
106-99-0	1,3-Butadiene	26.8	22.7	85	66-161	
74-83-9	Bromomethane	25.8	27.5	107	67-130	
75-00-3	Chloroethane	25.5	23.3	91	68-123	
64-17-5	Ethanol	130	117	90	50-155	
75-05-8	Acetonitrile	26.0	20.9	80	48-148	
107-02-8	Acrolein	26.3	22.1	84	67-138	
67-64-1	Acetone	132	116	88	59-121	
75-69-4	Trichlorofluoromethane	26.3	24.5	93	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	41.1	86	54-126	
107-13-1	Acrylonitrile	25.8	25.6	99	65-134	
75-35-4	1,1-Dichloroethene	27.5	27.6	100	70-123	
75-09-2	Methylene Chloride	26.8	23.2	87	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	20.8	77	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	29.1	106	69-126	
75-15-0	Carbon Disulfide	26.0	24.5	94	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	24.4	96	69-125	
75-34-3	1,1-Dichloroethane	26.5	24.8	94	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	24.3	92	72-132	
108-05-4	Vinyl Acetate	126	103	82	73-158	
78-93-3	2-Butanone (MEK)	26.8	25.3	94	68-126	

Verified By: _____ Date: 8/24/09 **790**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090817-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: 8/17/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	26.0	96	69-124	
141-78-6	Ethyl Acetate	52.0	50.3	97	65-126	
110-54-3	n-Hexane	26.0	22.5	87	63-125	
67-66-3	Chloroform	27.5	27.0	98	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	23.5	89	65-124	
107-06-2	1,2-Dichloroethane	26.3	24.8	94	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	25.2	97	69-127	
71-43-2	Benzene	25.8	23.9	93	68-122	
56-23-5	Carbon Tetrachloride	26.3	27.0	103	68-137	
110-82-7	Cyclohexane	51.8	48.7	94	68-121	
78-87-5	1,2-Dichloropropane	26.0	24.8	95	69-128	
75-27-4	Bromodichloromethane	26.3	25.8	98	71-131	
79-01-6	Trichloroethene	25.8	27.5	107	72-122	
123-91-1	1,4-Dioxane	26.0	25.9	100	73-127	
80-62-6	Methyl Methacrylate	52.8	55.4	105	80-133	
142-82-5	n-Heptane	25.8	24.1	93	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	23.9	98	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	25.5	95	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	26.5	98	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	26.1	100	76-125	
108-88-3	Toluene	26.8	27.2	101	74-119	
591-78-6	2-Hexanone	27.0	25.3	94	64-118	
124-48-1	Dibromochloromethane	28.3	31.4	111	79-129	
106-93-4	1,2-Dibromoethane	26.3	28.7	109	79-125	
123-86-4	n-Butyl Acetate	27.5	22.7	83	70-136	

Verified By: _____ Date: 8/24/09 **791**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090817-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: 8/17/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	25.8	98	75-126	
127-18-4	Tetrachloroethene	25.3	28.8	114	72-125	
108-90-7	Chlorobenzene	26.5	28.3	107	74-121	
100-41-4	Ethylbenzene	26.3	27.3	104	76-120	
179601-23-1	m,p-Xylenes	51.5	52.8	103	75-120	
75-25-2	Bromoform	26.5	30.1	114	76-143	
100-42-5	Styrene	26.3	28.4	108	78-124	
95-47-6	o-Xylene	26.0	27.1	104	76-121	
111-84-2	n-Nonane	25.8	23.8	92	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	28.2	104	77-126	
98-82-8	Cumene	25.3	26.3	104	78-125	
80-56-8	alpha-Pinene	24.8	25.8	104	78-125	
103-65-1	n-Propylbenzene	25.3	26.6	105	80-127	
622-96-8	4-Ethyltoluene	26.3	27.5	105	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	28.4	107	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	28.3	111	76-123	
100-44-7	Benzyl Chloride	26.8	28.3	106	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	30.0	115	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	28.6	109	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	29.6	115	75-124	
5989-27-5	d-Limonene	26.5	27.8	105	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	32.9	122	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	32.7	120	70-139	
91-20-3	Naphthalene	25.0	28.5	114	69-141	
87-68-3	Hexachlorobutadiene	26.8	28.7	107	68-138	

Verified By: _____

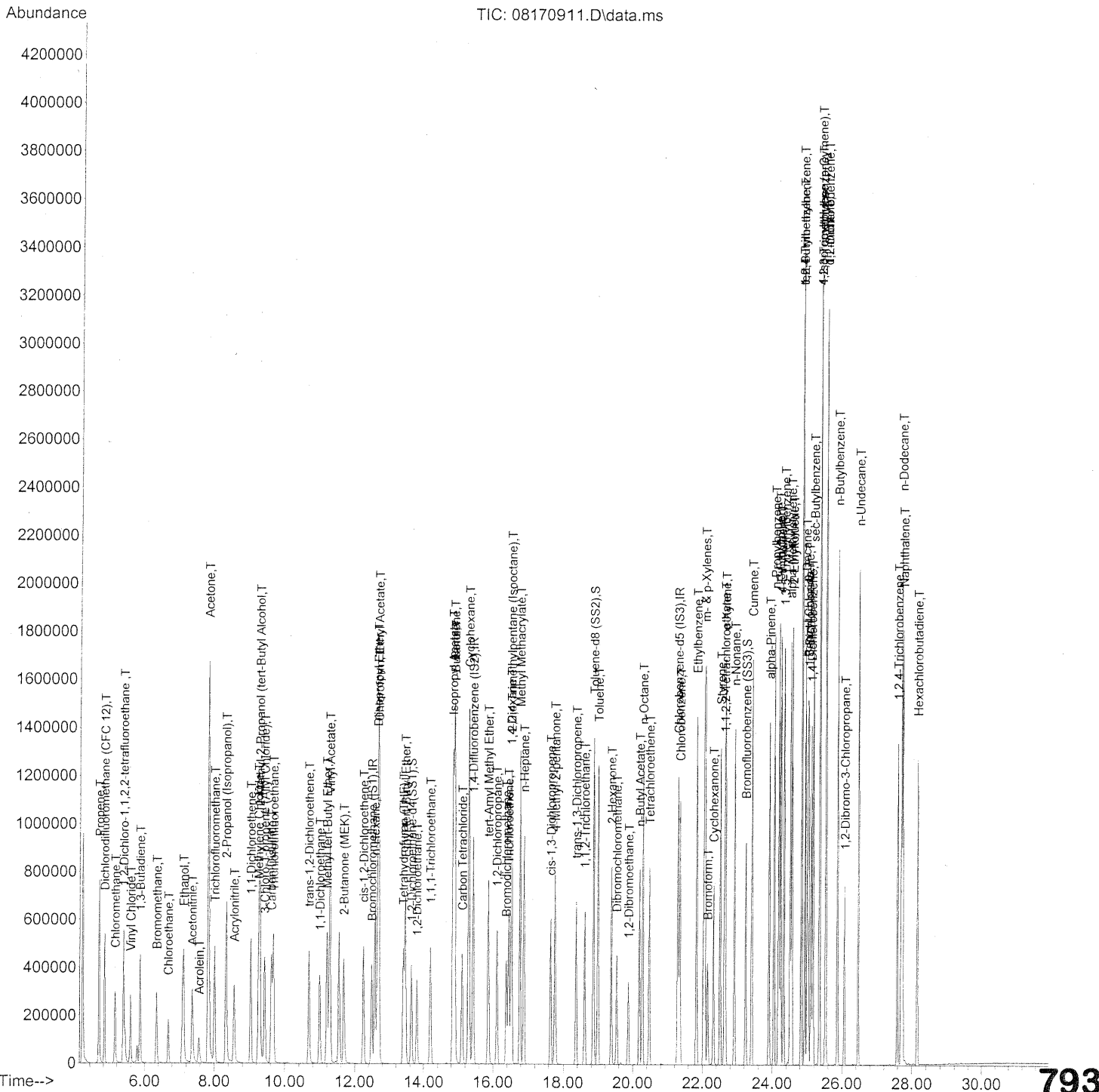
Date: 8/24/09

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Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170911.D
 Acq On : 17 Aug 2009 11:47
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 17 13:12:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170911.D
 Acq On : 17 Aug 2009 11:47
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 17 13:12:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.49	130	208872	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1062061	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	500842	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.64	65	425512	23.438	ng	-0.02
Spiked Amount	25.000		Recovery	=	93.76%	
57) Toluene-d8 (SS2)	18.85	98	1153027	26.347	ng	-0.01
Spiked Amount	25.000		Recovery	=	105.40%	
73) Bromofluorobenzene (SS3)	23.24	174	303901	26.333	ng	0.00
Spiked Amount	25.000		Recovery	=	105.32%	

Target Compounds

						Qvalue
2) Propene	4.66	42	331719	23.143	ng	99
3) Dichlorodifluoromethan...	4.83	85	552238	23.573	ng	99
4) Chloromethane	5.14	50	394224	25.046	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	238623	25.071	ng	98
6) Vinyl Chloride	5.59	62	359887	23.799	ng	98
7) 1,3-Butadiene	5.86	54	246574	22.749	ng	100
8) Bromomethane	6.35	94	253188	27.504	ng	98
9) Chloroethane	6.69	64	204555	23.273	ng	97
10) Ethanol	7.12	45	1062131	116.905	ng	100
11) Acetonitrile	7.37	41	555168	20.865	ng	100
12) Acrolein	7.57	56	153088	22.136	ng	97
13) Acetone	7.82	58	991933	115.712	ng	97
14) Trichlorofluoromethane	8.01	101	519377	24.522	ng	99
15) 2-Propanol (Isopropanol)	8.33	45	1384898	41.110	ng	99
16) Acrylonitrile	8.56	53	396962	25.628	ng	99
17) 1,1-Dichloroethene	9.03	96	271582	27.615	ng	# 86
18) 2-Methyl-2-Propanol (t...	9.29	59	1459663	48.816	ng	99
19) Methylene Chloride	9.25	84	266992	23.192	ng	94
20) 3-Chloro-1-propene (Al...	9.43	41	460822	20.765	ng	97
21) Trichlorotrifluoroethane	9.68	151	224200	29.113	ng	97
22) Carbon Disulfide	9.62	76	992508	24.453	ng	99
23) trans-1,2-Dichloroethene	10.68	61	423790	24.354	ng	93
24) 1,1-Dichloroethane	10.99	63	523517	24.809	ng	100
25) Methyl tert-Butyl Ether	11.20	73	787565	24.281	ng	100
26) Vinyl Acetate	11.28	86	180080	103.225	ng	# 91
27) 2-Butanone (MEK)	11.68	72	195602	25.271	ng	95
28) cis-1,2-Dichloroethene	12.25	61	420571	25.965	ng	93
29) Diisopropyl Ether	12.66	87	278873	26.923	ng	# 39
30) Ethyl Acetate	12.68	61	202994	50.344	ng	99
31) n-Hexane	12.58	57	463908	22.491	ng	99

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170911.D
 Acq On : 17 Aug 2009 11:47
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 17 13:12:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	491073	27.042	ng	99
34) Tetrahydrofuran (THF)	13.40	72	194228	23.541	ng	96
35) Ethyl tert-Butyl Ether	13.47	87	324338	24.204	ng	94
36) 1,2-Dichloroethane	13.80	62	411159	24.774	ng	97
38) 1,1,1-Trichloroethane	14.19	97	453201	25.155	ng	98
39) Isopropyl Acetate	14.84	61	383412	48.665	ng	# 89
40) 1-Butanol	14.89	56	602530	43.713	ng	# 75
41) Benzene	14.88	78	1114538	23.869	ng	99
42) Carbon Tetrachloride	15.11	117	402352	27.035	ng	98
43) Cyclohexane	15.31	84	833398	48.728	ng	95
44) tert-Amyl Methyl Ether	15.87	73	837510	23.884	ng	98
45) 1,2-Dichloropropane	16.11	63	290470	24.768	ng	100
46) Bromodichloromethane	16.38	83	396814	25.787	ng	99
47) Trichloroethene	16.45	130	290093	27.544	ng	99
48) 1,4-Dioxane	16.52	88	231334	25.923	ng	79
49) 2,2,4-Trimethylpentane...	16.53	57	1288838	23.433	ng	96
50) Methyl Methacrylate	16.77	100	238296	55.435	ng	93
51) n-Heptane	16.89	71	302163	24.112	ng	97
52) cis-1,3-Dichloropropene	17.65	75	464976	23.923	ng	99
53) 4-Methyl-2-pentanone	17.77	58	286168	25.500	ng	98
54) trans-1,3-Dichloropropene	18.36	75	490282	26.530	ng	98
55) 1,1,2-Trichloroethane	18.60	97	267948	26.135	ng	98
58) Toluene	18.99	91	1171525	27.239	ng	99
59) 2-Hexanone	19.37	43	723174	25.285	ng	97
60) Dibromochloromethane	19.53	129	319821	31.429	ng	98
61) 1,2-Dibromoethane	19.87	107	309235	28.664	ng	97
62) n-Butyl Acetate	20.18	43	764683	22.684	ng	99
63) n-Octane	20.28	57	268054	25.780	ng	93
64) Tetrachloroethene	20.47	166	286616	28.798	ng	99
65) Chlorobenzene	21.35	112	751754	28.252	ng	99
66) Ethylbenzene	21.82	91	1343101	27.318	ng	99
67) m- & p-Xylenes	22.06	91	2100721	52.820	ng	98
68) Bromoform	22.15	173	253944	30.055	ng	99
69) Styrene	22.52	104	816834	28.415	ng	99
70) o-Xylene	22.66	91	1081545	27.123	ng	98
71) n-Nonane	22.92	43	631275	23.825	ng	96
72) 1,1,2,2-Tetrachloroethane	22.64	83	498841	28.189	ng	100
74) Cumene	23.41	105	1324546	26.296	ng	100
75) alpha-Pinene	23.90	93	664938	25.753	ng	100
76) n-Propylbenzene	24.05	91	1681833	26.561	ng	99
77) 3-Ethyltoluene	24.18	105	1350009	28.044	ng	100
78) 4-Ethyltoluene	24.23	105	1281386	27.471	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	1117752	28.413	ng	97

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170911.D
 Acq On : 17 Aug 2009 11:47
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 17 13:12:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	605612	28.754	ng	96
81) 2-Ethyltoluene	24.57	105	1325571	27.307	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1136761	28.335	ng	100
83) n-Decane	24.94	57	660295	25.314	ng	98
84) Benzyl Chloride	25.01	91	1063780	28.287	ng	99
85) 1,3-Dichlorobenzene	25.03	146	608276	29.958	ng	97
86) 1,4-Dichlorobenzene	25.11	146	619157	28.599	ng	98
87) sec-Butylbenzene	25.17	105	1499034	27.659	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1347520	27.883	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	1149418	28.124	ng	97
90) 1,2-Dichlorobenzene	25.53	146	569079	29.562	ng	100
91) d-Limonene	25.53	68	473967	27.782	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	218152	32.949	ng	87
93) n-Undecane	26.46	57	720003	25.945	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	432649	32.687	ng	100
95) Naphthalene	27.73	128	1551299	28.472	ng	100
96) n-Dodecane	27.70	57	736507	22.845	ng	99
97) Hexachlorobutadiene	28.15	225	241273	28.660	ng	98
98) Cyclohexanone	22.32	55	398055	22.338	ng	97
99) tert-Butylbenzene	24.83	119	1076303	27.720	ng	99
100) n-Butylbenzene	25.86	91	1281093	28.668	ng	99

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090818-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: 8/18/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount	Result	% Recovery	CAS Acceptance	Data
		ng	ng		Limits	Qualifier
115-07-1	Propene	26.3	24.6	94	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	24.1	93	61-118	
74-87-3	Chloromethane	25.0	25.4	102	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	26.3	101	65-122	
75-01-4	Vinyl Chloride	25.3	24.8	98	57-132	
106-99-0	1,3-Butadiene	26.8	27.0	101	66-161	
74-83-9	Bromomethane	25.8	28.9	112	67-130	
75-00-3	Chloroethane	25.5	24.6	96	68-123	
64-17-5	Ethanol	130	121	93	50-155	
75-05-8	Acetonitrile	26.0	21.8	84	48-148	
107-02-8	Acrolein	26.3	24.3	92	67-138	
67-64-1	Acetone	132	127	96	59-121	
75-69-4	Trichlorofluoromethane	26.3	25.3	96	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	39.0	81	54-126	
107-13-1	Acrylonitrile	25.8	26.5	103	65-134	
75-35-4	1,1-Dichloroethene	27.5	28.7	104	70-123	
75-09-2	Methylene Chloride	26.8	24.6	92	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	21.6	80	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	30.2	110	69-126	
75-15-0	Carbon Disulfide	26.0	25.4	98	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	25.4	100	69-125	
75-34-3	1,1-Dichloroethane	26.5	25.6	97	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	25.8	98	72-132	
108-05-4	Vinyl Acetate	126	93.1	74	73-158	
78-93-3	2-Butanone (MEK)	26.8	26.4	99	68-126	

Verified By: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090818-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: 8/18/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	26.5	98	69-124	
141-78-6	Ethyl Acetate	52.0	52.2	100	65-126	
110-54-3	n-Hexane	26.0	23.9	92	63-125	
67-66-3	Chloroform	27.5	27.5	100	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	24.2	91	65-124	
107-06-2	1,2-Dichloroethane	26.3	25.2	96	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	25.9	100	69-127	
71-43-2	Benzene	25.8	24.6	95	68-122	
56-23-5	Carbon Tetrachloride	26.3	27.6	105	68-137	
110-82-7	Cyclohexane	51.8	51.8	100	68-121	
78-87-5	1,2-Dichloropropane	26.0	26.0	100	69-128	
75-27-4	Bromodichloromethane	26.3	26.5	101	71-131	
79-01-6	Trichloroethene	25.8	28.5	110	72-122	
123-91-1	1,4-Dioxane	26.0	26.8	103	73-127	
80-62-6	Methyl Methacrylate	52.8	56.6	107	80-133	
142-82-5	n-Heptane	25.8	25.0	97	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	24.5	100	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	25.8	96	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	27.3	101	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	26.7	103	76-125	
108-88-3	Toluene	26.8	27.8	104	74-119	
591-78-6	2-Hexanone	27.0	26.0	96	64-118	
124-48-1	Dibromochloromethane	28.3	32.4	114	79-129	
106-93-4	1,2-Dibromoethane	26.3	29.6	113	79-125	
123-86-4	n-Butyl Acetate	27.5	23.0	84	70-136	

Verified By: _____ Date: 8/24/09 **798**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902721
 CAS Sample ID: P090818-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: 8/18/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount	Result	% Recovery	CAS Acceptance	Data
		ng	ng		Limits	Qualifier
111-65-9	n-Octane	26.3	26.4	100	75-126	
127-18-4	Tetrachloroethene	25.3	29.4	116	72-125	
108-90-7	Chlorobenzene	26.5	29.1	110	74-121	
100-41-4	Ethylbenzene	26.3	28.0	106	76-120	
179601-23-1	m,p-Xylenes	51.5	53.9	105	75-120	
75-25-2	Bromoform	26.5	30.5	115	76-143	
100-42-5	Styrene	26.3	29.3	111	78-124	
95-47-6	o-Xylene	26.0	27.8	107	76-121	
111-84-2	n-Nonane	25.8	24.5	95	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	29.0	107	77-126	
98-82-8	Cumene	25.3	26.9	106	78-125	
80-56-8	alpha-Pinene	24.8	26.5	107	78-125	
103-65-1	n-Propylbenzene	25.3	27.0	107	80-127	
622-96-8	4-Ethyltoluene	26.3	27.9	106	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	29.1	110	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	28.6	112	76-123	
100-44-7	Benzyl Chloride	26.8	28.4	106	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	30.2	116	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	29.2	111	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	30.1	117	75-124	
5989-27-5	d-Limonene	26.5	28.1	106	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	33.6	124	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	33.7	123	70-139	
91-20-3	Naphthalene	25.0	29.1	116	69-141	
87-68-3	Hexachlorobutadiene	26.8	29.5	110	68-138	

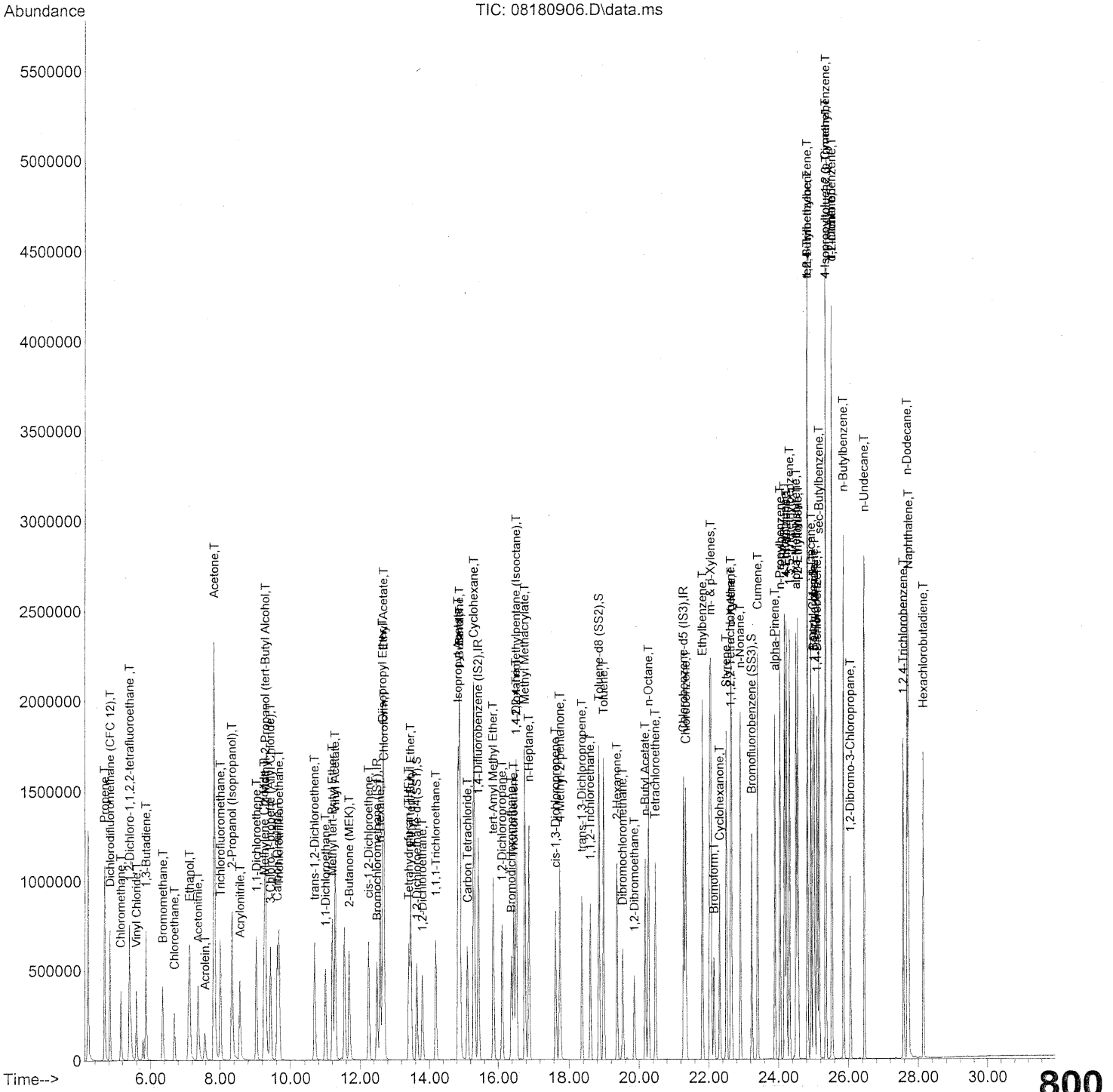
Verified By: _____

Date: 8/24/09

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Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180906.D
 Acq On : 18 Aug 2009 18:02
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 20:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180906.D
 Acq On : 18 Aug 2009 18:02
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 20:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.50	130	278885	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1403311	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	663251	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.64	65	555373	22.912	ng	-0.02
Spiked Amount	25.000		Recovery	=	91.64%	
57) Toluene-d8 (SS2)	18.85	98	1515977	26.159	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.64%	
73) Bromofluorobenzene (SS3)	23.24	174	401738	26.287	ng	0.00
Spiked Amount	25.000		Recovery	=	105.16%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	470904	24.606	ng	100
3) Dichlorodifluoromethan...	4.84	85	755155	24.142	ng	99
4) Chloromethane	5.15	50	533305	25.376	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	334021	26.283	ng	99
6) Vinyl Chloride	5.59	62	501615	24.844	ng	97
7) 1,3-Butadiene	5.87	54	390910	27.012	ng	100
8) Bromomethane	6.35	94	355819	28.949	ng	98
9) Chloroethane	6.69	64	288769	24.606	ng	98
10) Ethanol	7.13	45	1469522	121.139	ng	100
11) Acetonitrile	7.37	41	772755	21.752	ng	99
12) Acrolein	7.57	56	224526	24.315	ng	97
13) Acetone	7.83	58	1449235	126.616	ng	95
14) Trichlorofluoromethane	8.01	101	714621	25.270	ng	100
15) 2-Propanol (Isopropanol)	8.34	45	1752309	38.958	ng	99
16) Acrylonitrile	8.57	53	548227	26.508	ng	99
17) 1,1-Dichloroethene	9.03	96	376387	28.664	ng	# 86
18) 2-Methyl-2-Propanol (t...	9.29	59	1978847	49.565	ng	99
19) Methylene Chloride	9.26	84	378823	24.645	ng	93
20) 3-Chloro-1-propene (Al...	9.43	41	639758	21.591	ng	96
21) Trichlorotrifluoroethane	9.68	151	310570	30.204	ng	96
22) Carbon Disulfide	9.63	76	1376479	25.399	ng	99
23) trans-1,2-Dichloroethene	10.68	61	590405	25.411	ng	93
24) 1,1-Dichloroethane	11.00	63	722505	25.643	ng	99
25) Methyl tert-Butyl Ether	11.20	73	1118894	25.836	ng	100
26) Vinyl Acetate	11.28	86	216898	93.117	ng	# 89
27) 2-Butanone (MEK)	11.68	72	272943	26.410	ng	95
28) cis-1,2-Dichloroethene	12.25	61	573520	26.518	ng	93
29) Diisopropyl Ether	12.66	87	379059	27.408	ng	# 1
30) Ethyl Acetate	12.68	61	281015	52.197	ng	99
31) n-Hexane	12.59	57	658444	23.908	ng	99

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Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180906.D
 Acq On : 18 Aug 2009 18:02
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 20:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	667787	27.541	ng	100
34) Tetrahydrofuran (THF)	13.40	72	266392	24.182	ng	96
35) Ethyl tert-Butyl Ether	13.46	87	440627	24.627	ng	93
36) 1,2-Dichloroethane	13.80	62	558727	25.214	ng	97
38) 1,1,1-Trichloroethane	14.19	97	616715	25.907	ng	98
39) Isopropyl Acetate	14.84	61	520314	49.982	ng	# 90
40) 1-Butanol	14.89	56	819266	44.983	ng	# 74
41) Benzene	14.88	78	1518422	24.611	ng	99
42) Carbon Tetrachloride	15.11	117	542311	27.579	ng	100
43) Cyclohexane	15.30	84	1170081	51.778	ng	94
44) tert-Amyl Methyl Ether	15.86	73	1123548	24.249	ng	98
45) 1,2-Dichloropropane	16.12	63	403444	26.036	ng	100
46) Bromodichloromethane	16.38	83	538677	26.494	ng	99
47) Trichloroethene	16.45	130	396108	28.464	ng	99
48) 1,4-Dioxane	16.52	88	315529	26.759	ng	79
49) 2,2,4-Trimethylpentane...	16.52	57	1760979	24.231	ng	96
50) Methyl Methacrylate	16.77	100	321520	56.608	ng	94
51) n-Heptane	16.89	71	414394	25.026	ng	96
52) cis-1,3-Dichloropropene	17.65	75	629277	24.503	ng	99
53) 4-Methyl-2-pentanone	17.77	58	382843	25.818	ng	99
54) trans-1,3-Dichloropropene	18.36	75	666241	27.285	ng	98
55) 1,1,2-Trichloroethane	18.60	97	361214	26.665	ng	99
58) Toluene	18.99	91	1585586	27.839	ng	99
59) 2-Hexanone	19.37	43	983918	25.978	ng	97
60) Dibromochloromethane	19.53	129	436252	32.373	ng	99
61) 1,2-Dibromoethane	19.86	107	422553	29.577	ng	98
62) n-Butyl Acetate	20.18	43	1028456	23.038	ng	99
63) n-Octane	20.28	57	362851	26.352	ng	92
64) Tetrachloroethene	20.47	166	387490	29.400	ng	98
65) Chlorobenzene	21.34	112	1024129	29.063	ng	100
66) Ethylbenzene	21.82	91	1822653	27.994	ng	99
67) m- & p-Xylenes	22.06	91	2837502	53.875	ng	97
68) Bromoform	22.15	173	341480	30.519	ng	99
69) Styrene	22.51	104	1115214	29.295	ng	99
70) o-Xylene	22.66	91	1468614	27.811	ng	97
71) n-Nonane	22.91	43	859251	24.489	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	679392	28.991	ng	99
74) Cumene	23.41	105	1791976	26.864	ng	100
75) alpha-Pinene	23.90	93	906584	26.514	ng	100
76) n-Propylbenzene	24.05	91	2263204	26.990	ng	99
77) 3-Ethyltoluene	24.18	105	1842457	28.902	ng	100
78) 4-Ethyltoluene	24.23	105	1722527	27.886	ng	97
79) 1,3,5-Trimethylbenzene	24.32	105	1515208	29.085	ng	98

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180906.D
 Acq On : 18 Aug 2009 18:02
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 20:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	813978	29.184	ng	96
81) 2-Ethyltoluene	24.56	105	1782971	27.735	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1521470	28.638	ng	100
83) n-Decane	24.94	57	893103	25.855	ng	98
84) Benzyl Chloride	25.01	91	1415027	28.413	ng	98
85) 1,3-Dichlorobenzene	25.03	146	812400	30.214	ng	96
86) 1,4-Dichlorobenzene	25.11	146	837918	29.227	ng	99
87) sec-Butylbenzene	25.17	105	2011801	28.031	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1800648	28.136	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	1537708	28.411	ng	97
90) 1,2-Dichlorobenzene	25.53	146	766602	30.071	ng	100
91) d-Limonene	25.53	68	635302	28.120	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.06	157	294310	33.567	ng	86
93) n-Undecane	26.46	57	965718	26.278	ng	97
94) 1,2,4-Trichlorobenzene	27.59	180	589890	33.654	ng	100
95) Naphthalene	27.73	128	2099531	29.099	ng	100
96) n-Dodecane	27.70	57	996010	23.329	ng	99
97) Hexachlorobutadiene	28.15	225	328431	29.460	ng	99
98) Cyclohexanone	22.32	55	533779	22.620	ng	97
99) tert-Butylbenzene	24.83	119	1449940	28.198	ng	98
100) n-Butylbenzene	25.86	91	1724074	29.134	ng	99

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100214

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-001DUP

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: AC00972

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/17/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.2

Final Pressure (psig): 3.9

Canister Dilution Factor: 1.62

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Propene	2.02	1.17	1.89	1.10	1.955	7	25	
Dichlorodifluoromethane (CFC 12)	2.55	0.517	2.69	0.544	2.62	5	25	
Chloromethane	0.910	0.441	0.721	0.349	0.8155	23	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	0.468	0.121	0.458	0.118	0.463	2	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	167	88.9	168	89.3	167.5	0.6	25	
Acetonitrile	269	160	274	163	271.5	2	25	E
Acrolein	3.88	1.69	3.71	1.62	3.795	4	25	
Acetone	53.7	22.6	54.5	22.9	54.1	1	25	
Trichlorofluoromethane	1.27	0.226	1.29	0.229	1.28	2	25	
2-Propanol (Isopropyl Alcohol)	4.83	1.97	5.08	2.07	4.955	5	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	ND	ND	ND	ND	-	-	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.700	0.0914	0.582	0.0759	0.641	18	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)	2.96	1.00	3.03	1.03	2.995	2	25	

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

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: 8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100214

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-001DUP

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: AC00972

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/17/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.2

Final Pressure (psig): 3.9

Canister Dilution Factor: 1.62

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	1.31	0.364	1.09	0.301	1.2	18	25	
n-Hexane	4.03	1.14	4.09	1.16	4.06	1	25	
Chloroform	0.779	0.160	0.774	0.159	0.7765	0.6	25	
Tetrahydrofuran (THF)	0.967	0.328	0.967	0.328	0.967	0	25	
1,2-Dichloroethane	0.238	0.0589	0.233	0.0577	0.2355	2	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	3.36	1.05	3.28	1.03	3.32	2	25	
Carbon Tetrachloride	0.514	0.0817	0.434	0.0690	0.474	17	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	0.321	0.0479	0.288	0.0431	0.3045	11	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	1.37	0.333	1.37	0.334	1.37	0	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	12.9	3.42	12.9	3.42	12.9	0	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	1.22	0.258	1.16	0.245	1.19	5	25	

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

Verified By: _____

Date: 8/24/09

805

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100214

Client Project ID: 16512

CAS Project ID: P0902721

CAS Sample ID: P0902721-001DUP

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: AC00972

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/17/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.2

Final Pressure (psig): 3.9

Canister Dilution Factor: 1.62

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
n-Octane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	ND	ND	-	-	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	2.61	0.602	2.55	0.587	2.58	2	25	
m,p-Xylenes	9.06	2.09	8.88	2.04	8.97	2	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	1.04	0.244	0.983	0.231	1.0115	6	25	
o-Xylene	4.61	1.06	4.52	1.04	4.565	2	25	
n-Nonane	1.51	0.288	1.45	0.276	1.48	4	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	60.9	10.9	60.6	10.9	60.75	0.5	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	1.10	0.224	1.09	0.222	1.095	0.9	25	
1,3,5-Trimethylbenzene	1.24	0.252	1.02	0.208	1.13	19	25	
1,2,4-Trimethylbenzene	3.84	0.781	3.71	0.755	3.775	3	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	17.4	3.12	17.1	3.07	17.25	2	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	16.7	3.19	16.0	3.06	16.35	4	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

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

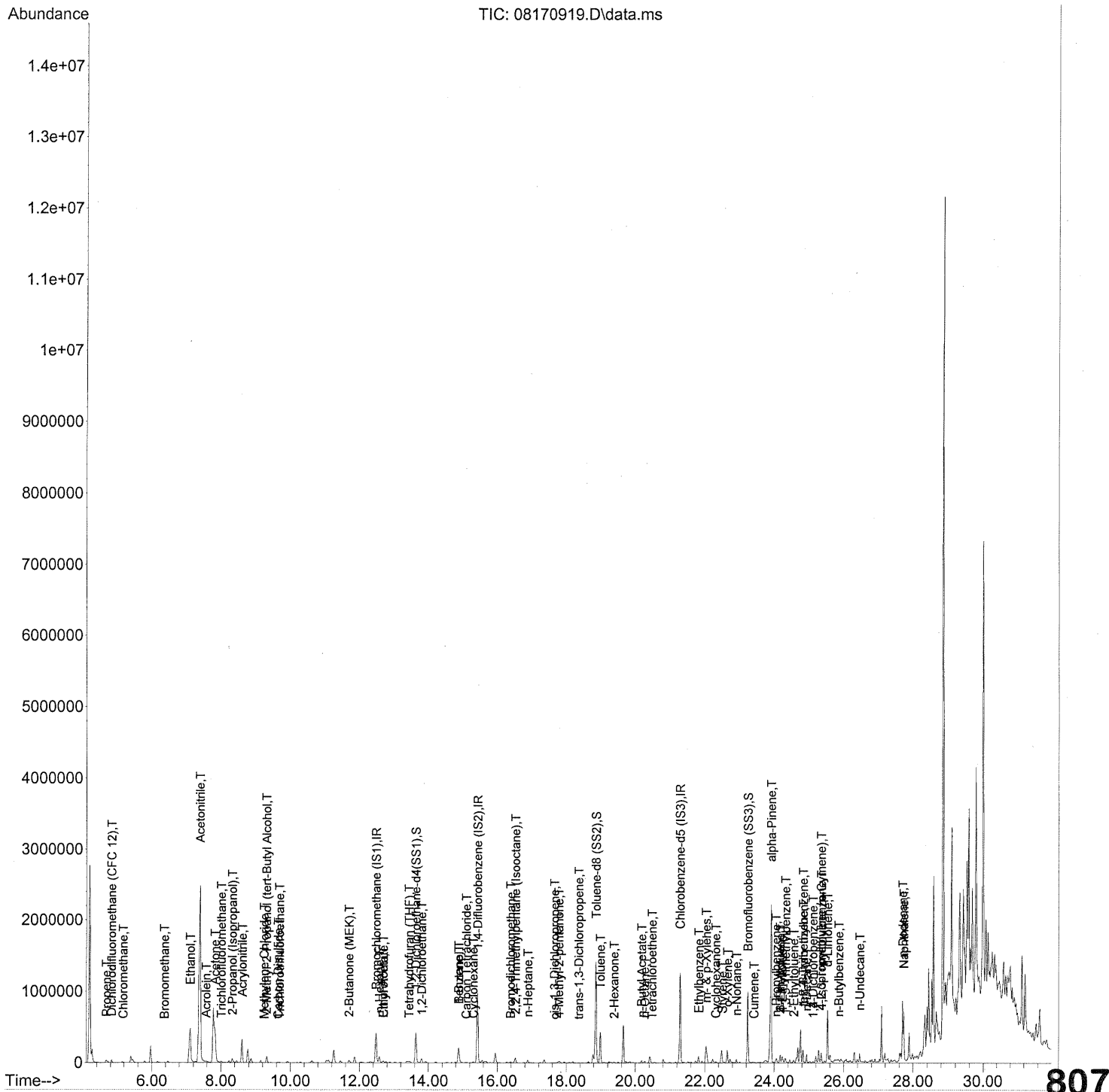
Verified By: _____

Date: 8/24/09

806

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 15:02:55 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214 ✓ ✓
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 15:02:55 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

WR 8/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	215219	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1098787	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	530975	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	438490	23.441	ng	-0.03
Spiked Amount	25.000			Recovery =	93.76%	✓
57) Toluene-d8 (SS2)	18.85	98	1204849	25.969	ng	-0.01
Spiked Amount	25.000			Recovery =	103.88%	✓
73) Bromofluorobenzene (SS3)	23.24	174	317060	25.914	ng	0.00
Spiked Amount	25.000			Recovery =	103.64%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	17241	1.167	ng	90
3) Dichlorodifluoromethan...	4.83	85	40057	1.659	ng	97
4) Chloromethane	5.17	50	7220	0.445	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	453	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	416	N.D.		
8) Bromomethane	6.37	94	2686	0.283	ng	99
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.11	45	971943	103.823	ng	100
11) Acetonitrile	7.39	41	4632153	168.957	ng	100
12) Acrolein	7.57	56	16318	2.290	ng	96
13) Acetone	7.82	58	297095m	33.635	ng	
14) Trichlorofluoromethane	8.01	101	17344	0.795	ng	100
15) 2-Propanol (Isopropanol)	8.33	45	108864	3.136	ng	94
16) Acrylonitrile	8.61	53	5419	0.340	ng	# 41
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.31	59	3056	0.099	ng	# 1
19) Methylene Chloride	9.23	84	1589	0.134	ng	92
20) 3-Chloro-1-propene (Al...	9.40	41	497	N.D.		
21) Trichlorotrifluoroethane	9.68	151	2851	0.359	ng	91
22) Carbon Disulfide	9.64	76	14533	0.347	ng	93
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.	d	
27) 2-Butanone (MEK)	11.70	72	14938	1.873	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.69	87	437	N.D.		
30) Ethyl Acetate	12.69	61	2785	0.670	ng	93
31) n-Hexane	12.58	57	53635	2.524	ng	93

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 15:02:55 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	8947	0.478 ng		96
34) Tetrahydrofuran (THF)	13.43	72	5076	0.597 ng	#	88
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.80	62	2468	0.144 ng		89
38) 1,1,1-Trichloroethane	14.18	97	90	N.D.		
39) Isopropyl Acetate	14.87	61	212	N.D.		
40) 1-Butanol	14.88	56	126347	8.860 ng		80
41) Benzene	14.88	78	97730	2.023 ng		100
42) Carbon Tetrachloride	15.09	117	4125	0.268 ng		94
43) Cyclohexane	15.29	84	8631	0.488 ng		95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.38	83	2840	0.178 ng	#	57
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	81245	1.428 ng		95
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.88	71	10947	0.844 ng		96
52) cis-1,3-Dichloropropene	17.65	75	3993	0.199 ng		91
53) 4-Methyl-2-pentanone	17.78	58	4648	0.400 ng		90
54) trans-1,3-Dichloropropene	18.36	75	3720	0.195 ng		93
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	362201	7.944 ng		99
59) 2-Hexanone	19.38	43	13540	0.447 ng		94
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	25623	0.717 ng		95
63) n-Octane	20.27	57	5112	0.464 ng		95
64) Tetrachloroethene	20.48	166	857	0.081 ng		91
65) Chlorobenzene	21.34	112	88	N.D.		
66) Ethylbenzene	21.82	91	81951	1.572 ng		99
67) m- & p-Xylenes	22.03	91	231060	5.480 ng		99
68) Bromoform	22.14	173	90	N.D.		
69) Styrene	22.51	104	18493	0.607 ng		99
70) o-Xylene	22.65	91	117863	2.788 ng		98
71) n-Nonane	22.91	43	25043	0.892 ng		97
72) 1,1,2,2-Tetrachloroethane	22.65	83	631	N.D.		
74) Cumene	23.41	105	7997	0.150 ng		87
75) alpha-Pinene	23.90	93	1023626	37.395 ng		68
76) n-Propylbenzene	24.05	91	26433	0.394 ng	#	86
77) 3-Ethyltoluene	24.17	105	67873	1.330 ng		98
78) 4-Ethyltoluene	24.23	105	33227	0.672 ng		98
79) 1,3,5-Trimethylbenzene	24.32	105	26345	0.632 ng		10

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 15:02:55 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

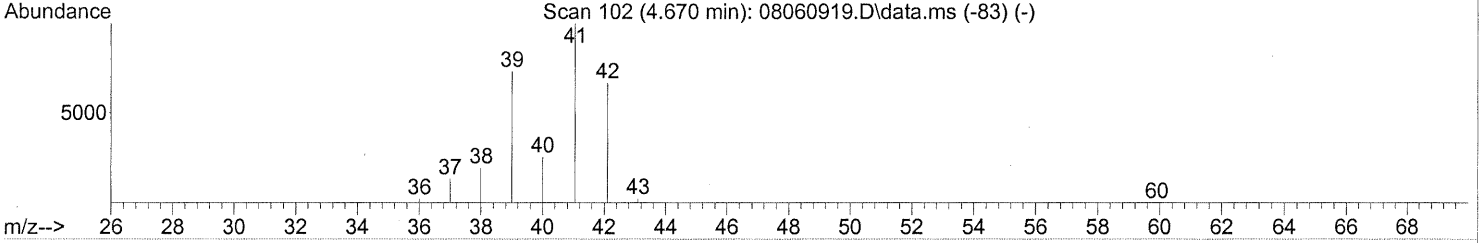
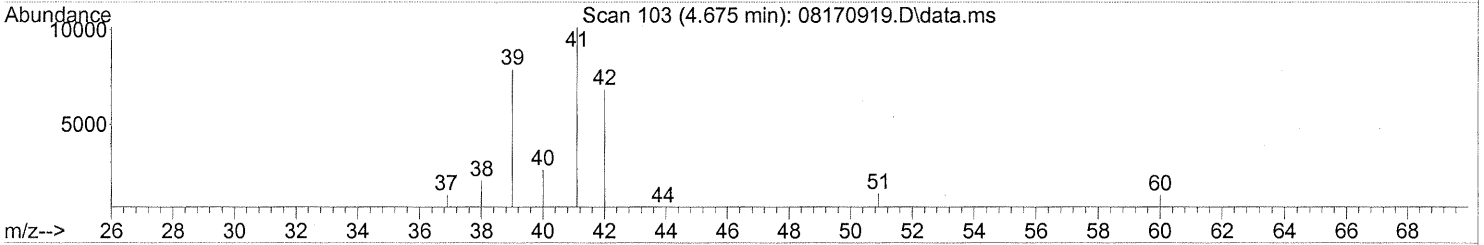
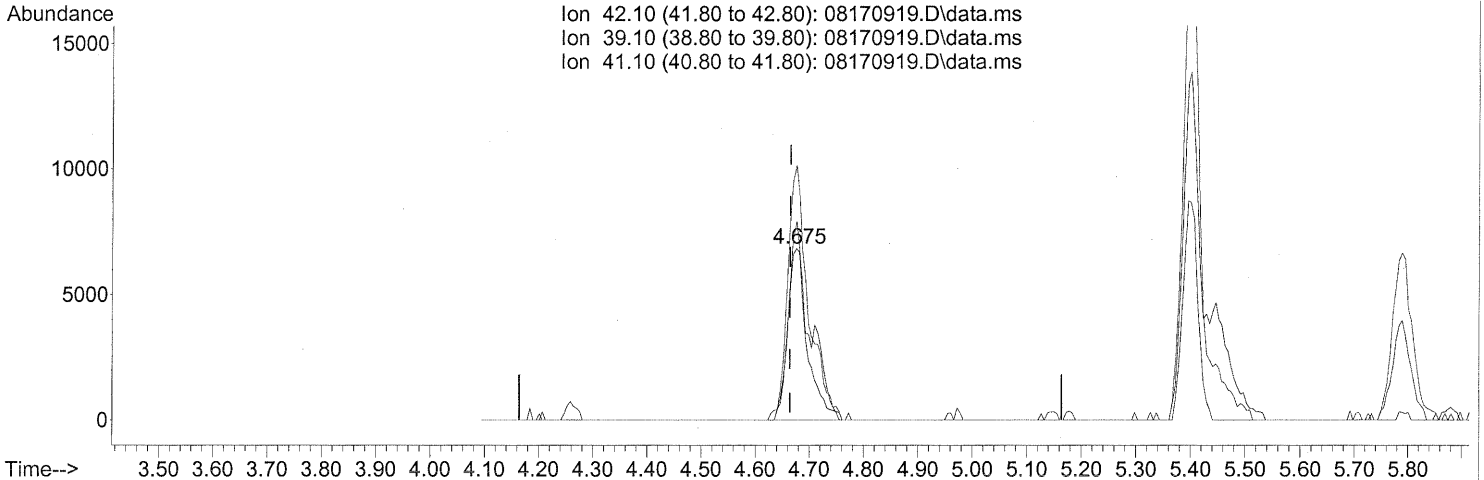
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	528	N.D.		
81) 2-Ethyltoluene	24.56	105	23054	0.448 ng		99
82) 1,2,4-Trimethylbenzene	24.83	105	97363	2.289 ng		88
83) n-Decane	24.93	57	45018	1.628 ng		96
84) Benzyl Chloride	25.00	91	408	N.D.		
85) 1,3-Dichlorobenzene	25.11	146	1179	0.055 ng	#	74
86) 1,4-Dichlorobenzene	25.11	146	1179	0.051 ng	#	73
87) sec-Butylbenzene	25.16	105	2697	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	42444	0.828 ng		99
89) 1,2,3-Trimethylbenzene	25.35	105	28698	0.662 ng		98
90) 1,2-Dichlorobenzene	25.11	146	1179	0.058 ng	#	71
91) d-Limonene	25.53	68	191164	10.569 ng		81
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	41989	1.427 ng		92
94) 1,2,4-Trichlorobenzene	27.58	180	89	N.D.		
95) Naphthalene	27.73	128	571538	9.895 ng		100
96) n-Dodecane	27.70	57	280820	8.216 ng		98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	11528	0.610 ng	#	81
99) tert-Butylbenzene	24.83	119	11401	0.277 ng	#	56
100) n-Butylbenzene	25.86	91	17154	0.362 ng	#	53

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170919.D\data.ms

(2) Propene (T)

4.675min (+0.011) 1.17ng

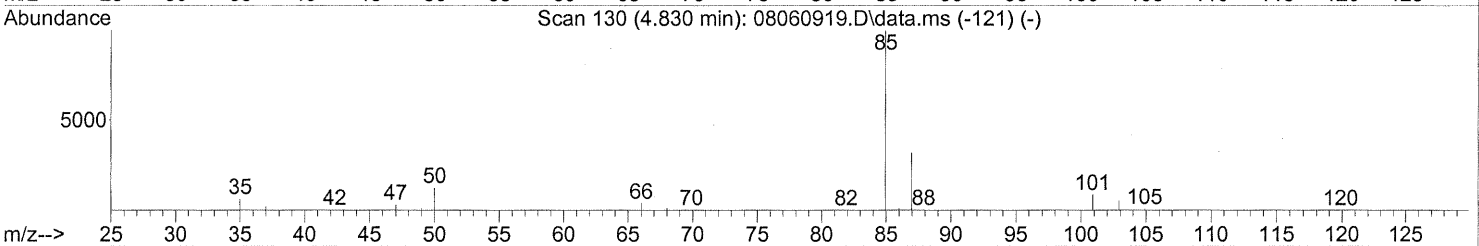
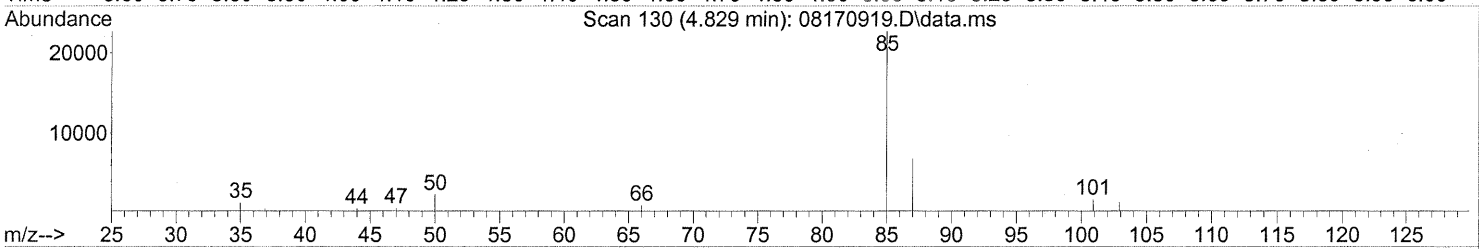
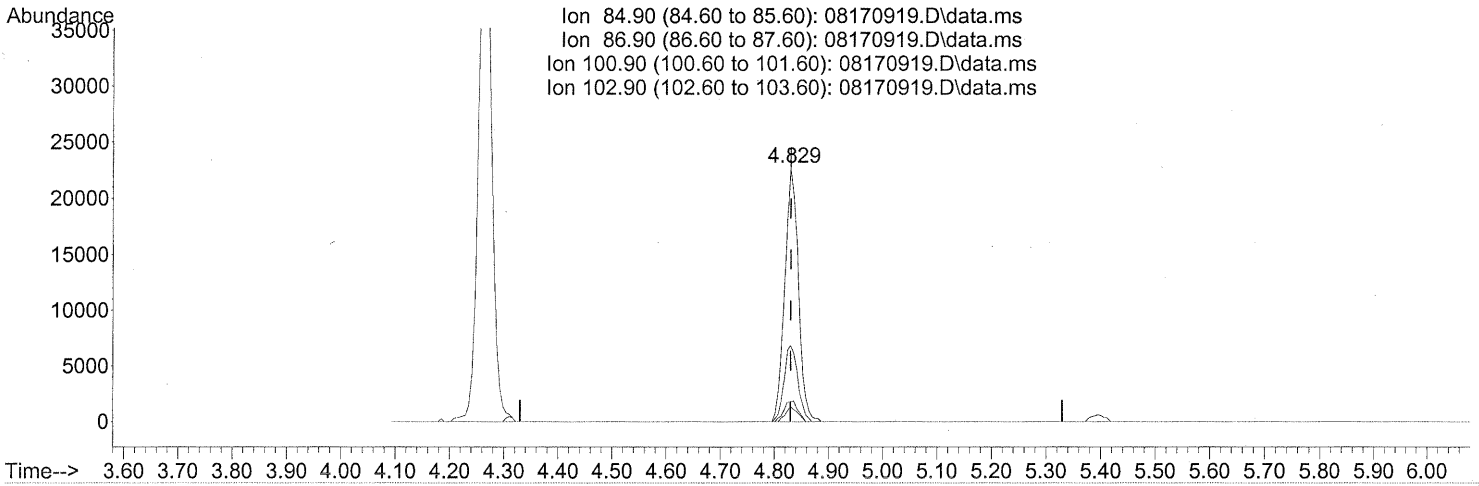
response 17241

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	126.72
41.10	150.20	158.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170919.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.829min (-0.000) 1.66ng

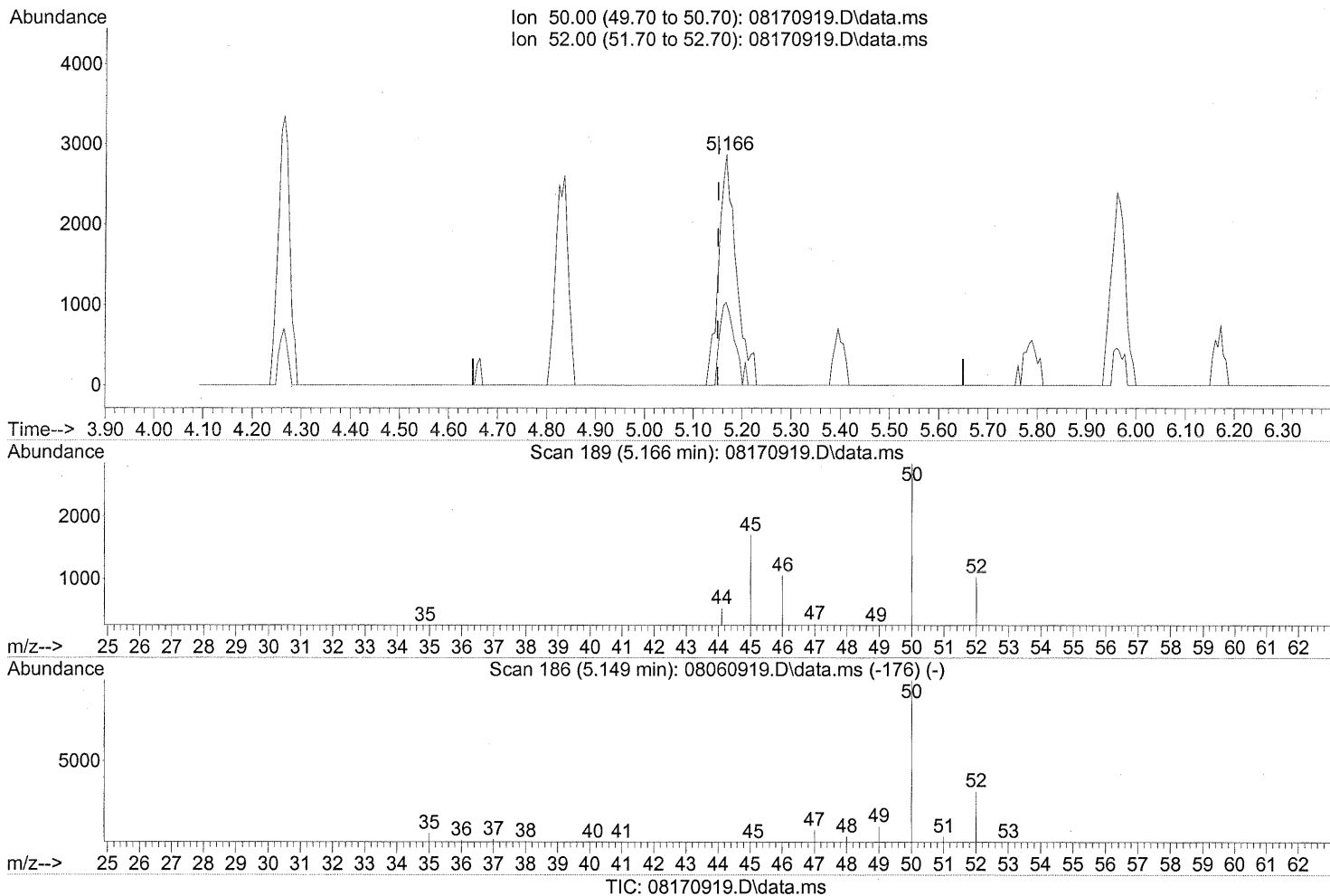
response 40057

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	30.57
100.90	8.80	8.31
102.90	5.20	5.19

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 15:02:55 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.166min (+0.017) 0.45ng

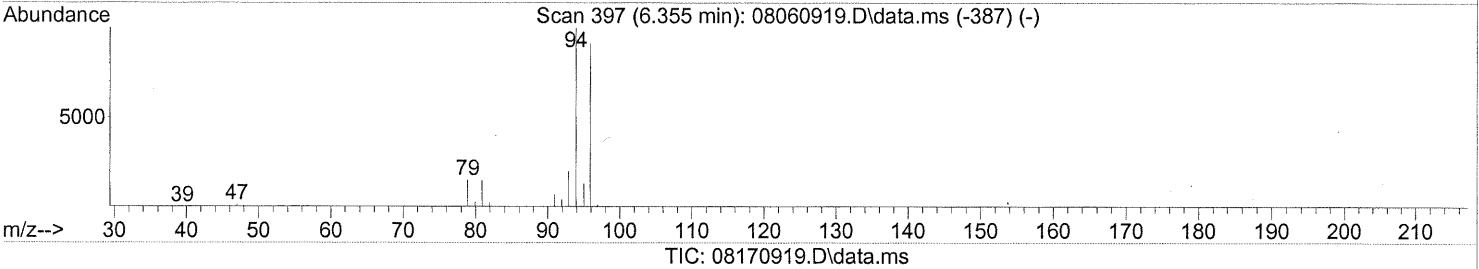
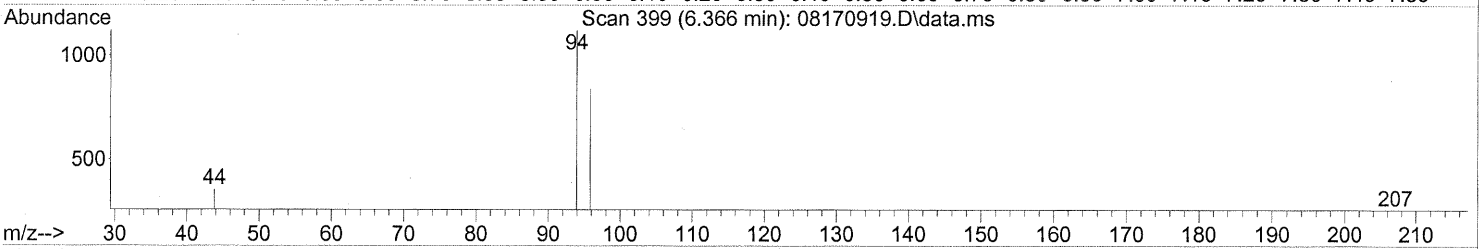
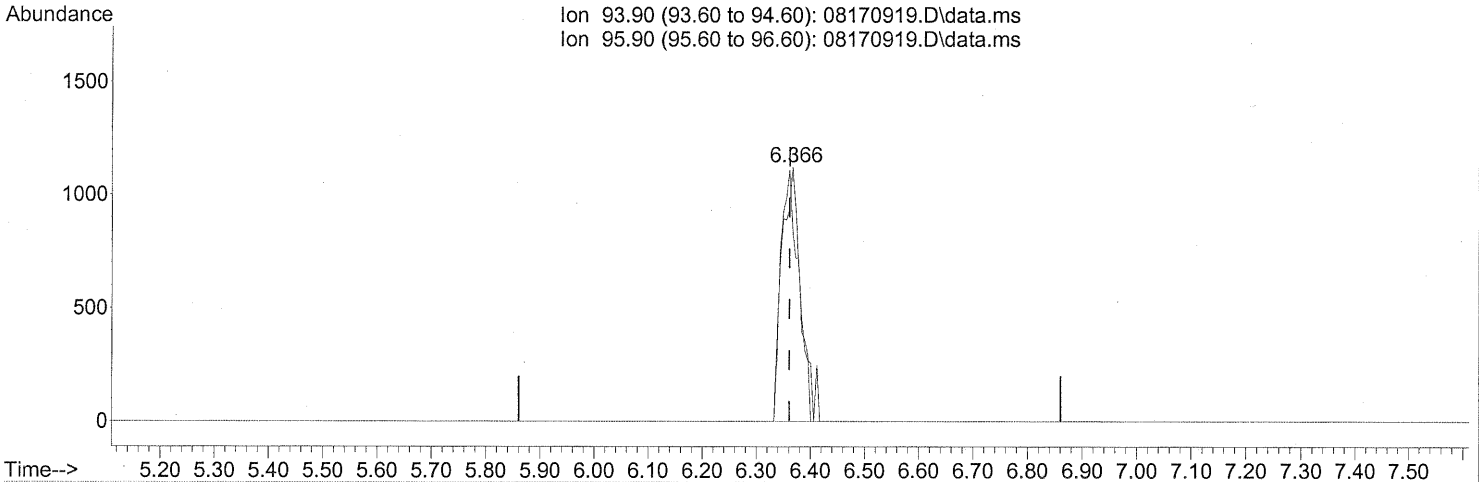
response 7220

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	30.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170919.D
Acq On : 17 Aug 2009 17:59
Operator : WA
Sample : P0902721-001 dup (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



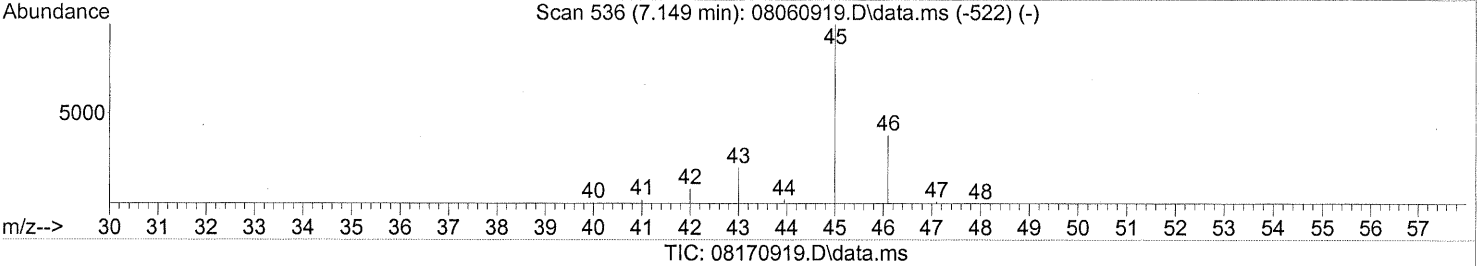
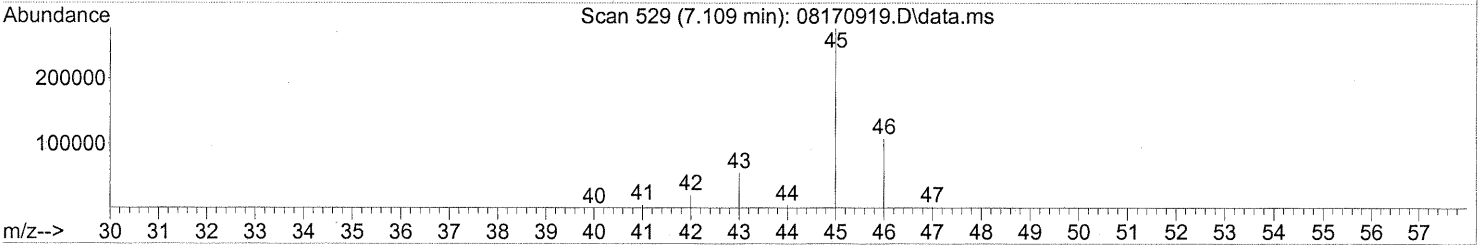
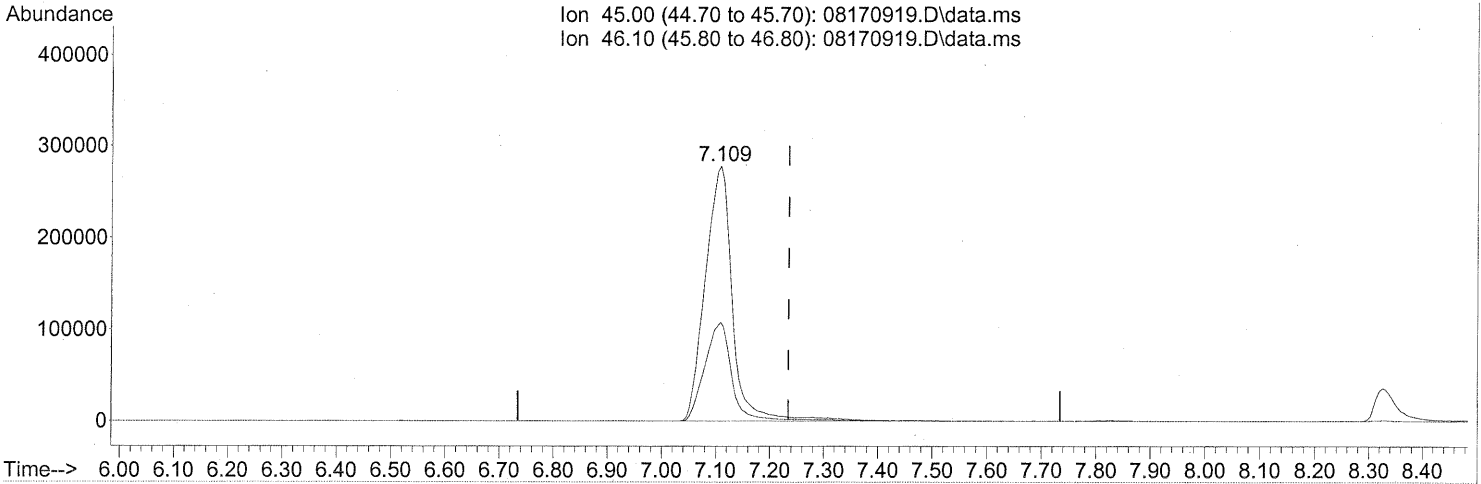
(8) Bromomethane (T)
6.366min (+0.006) 0.28ng
response 2686

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	94.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.109min (-0.126) 103.82ng

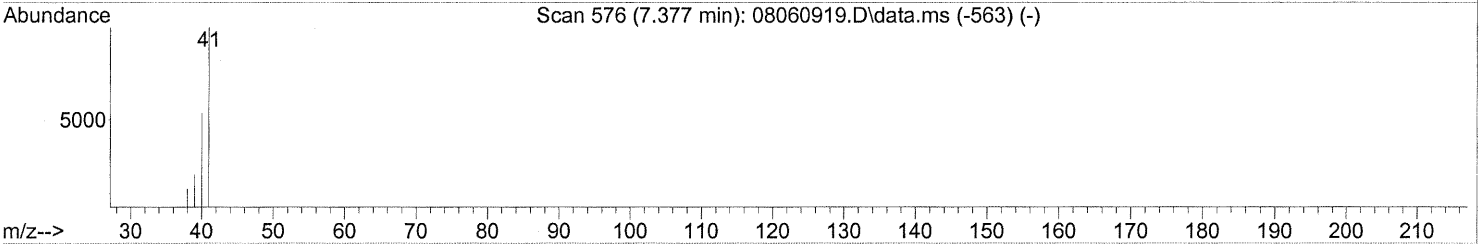
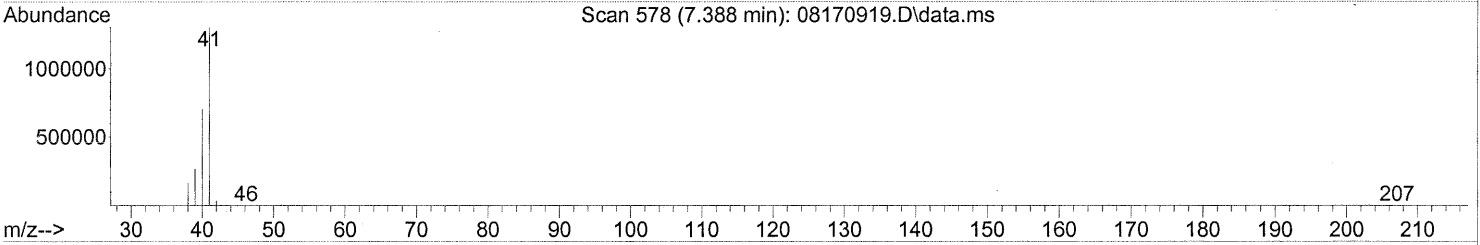
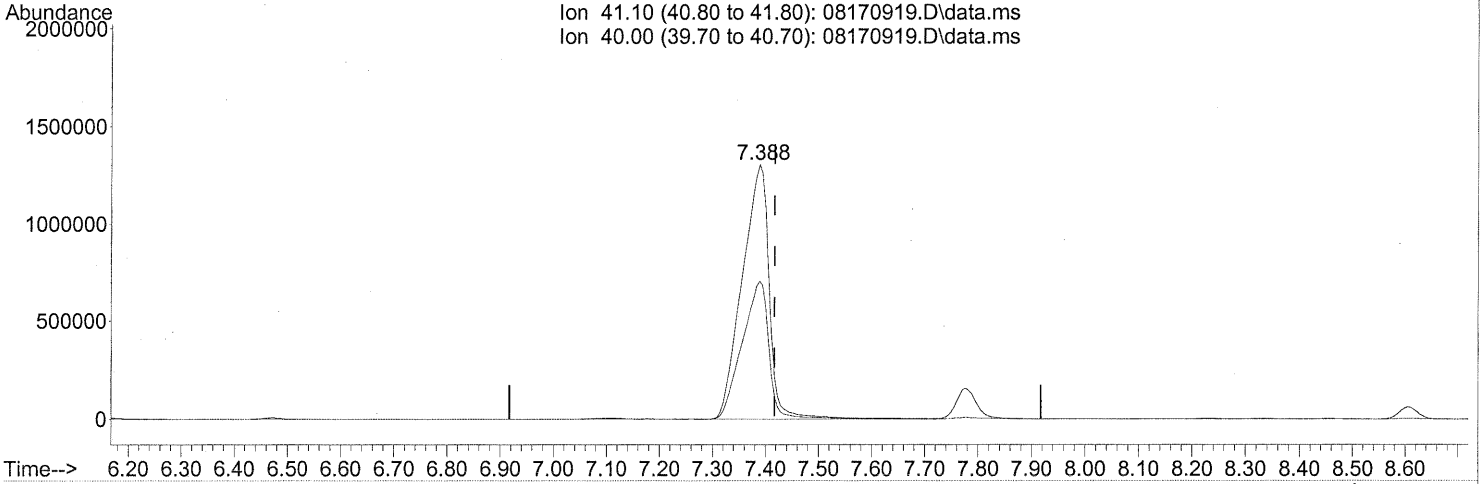
response 971943

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170919.D
Acq On : 17 Aug 2009 17:59
Operator : WA
Sample : P0902721-001 dup (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 15:02:55 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08170919.D\data.ms

(11) Acetonitrile (T)
7.388min (-0.029) 168.96ng
response 4632153

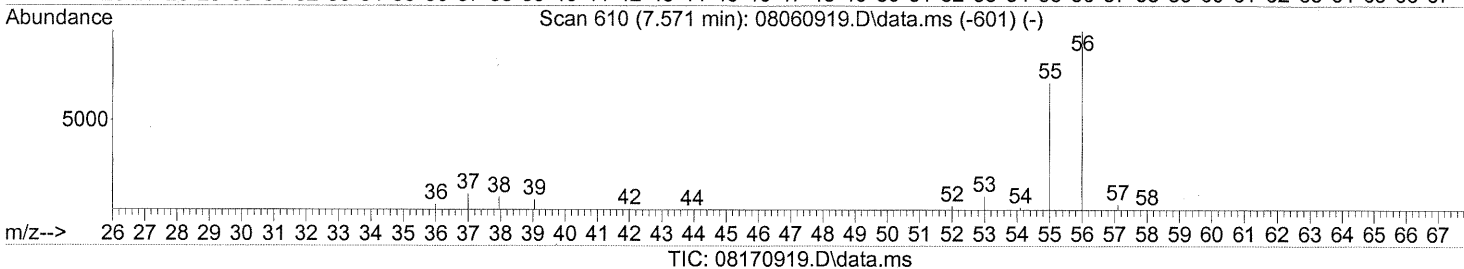
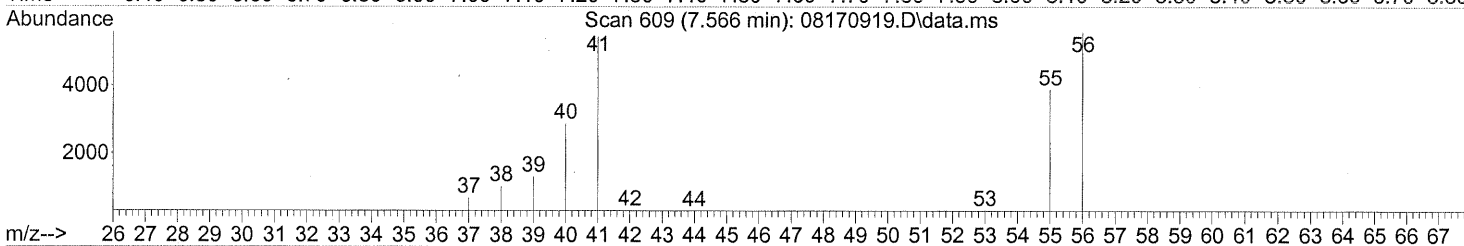
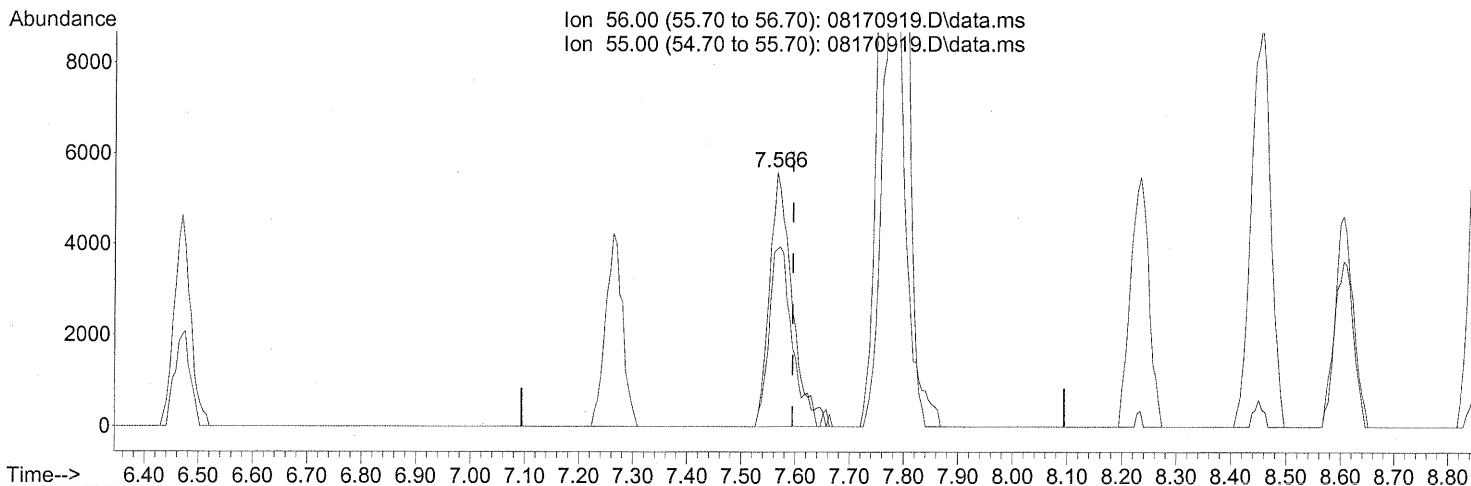
E

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.566min (-0.029) 2.29ng

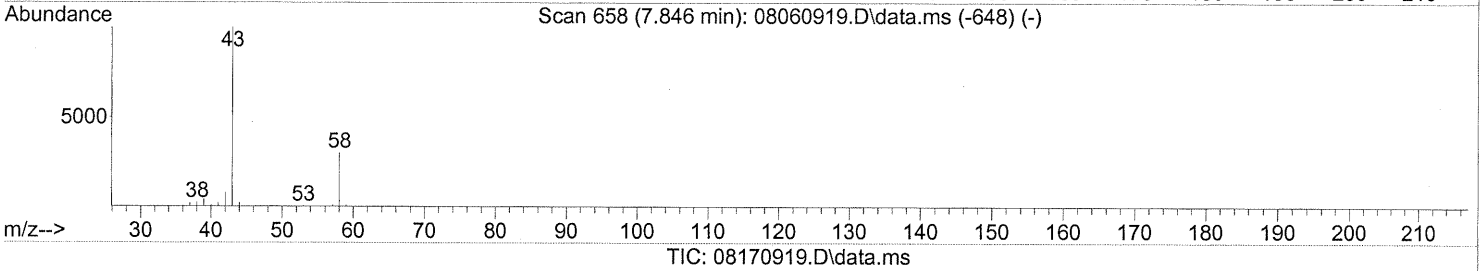
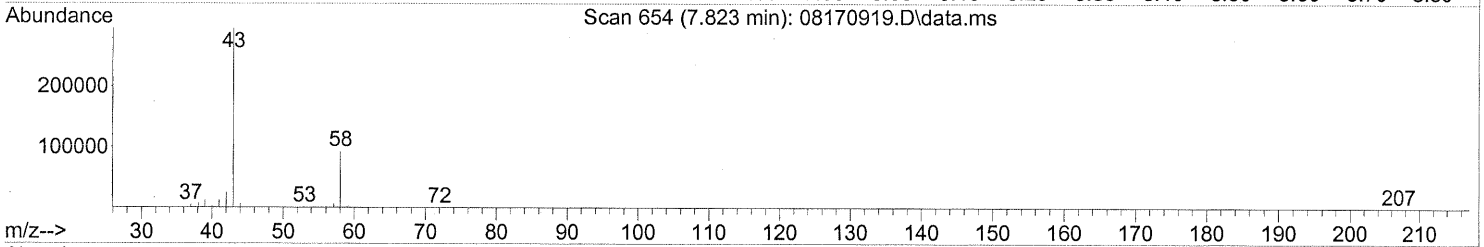
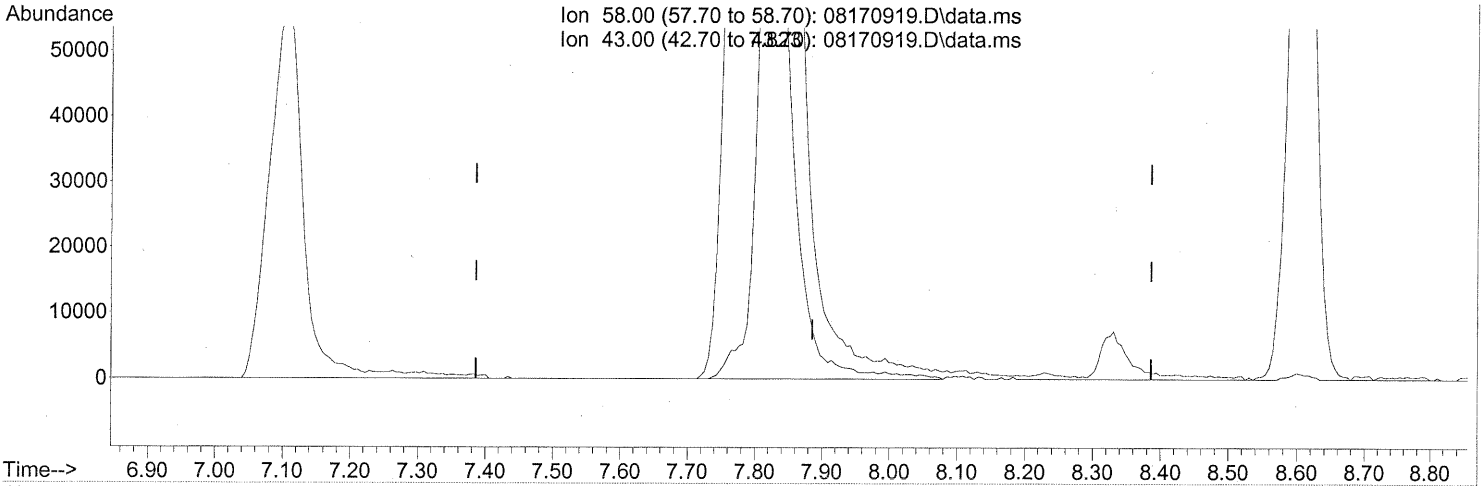
response 16318

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	71.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.823min (-0.063) 34.26ng

response 302583

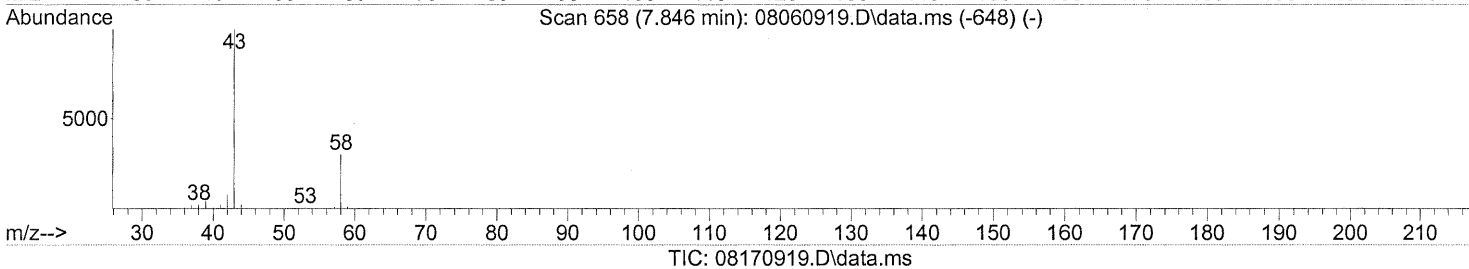
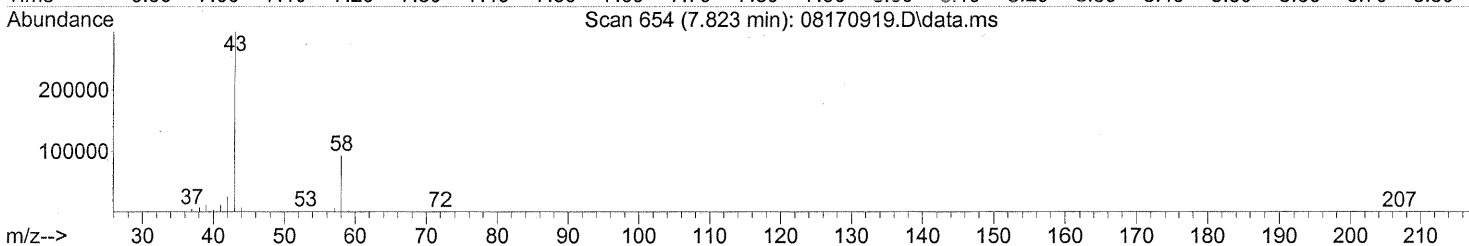
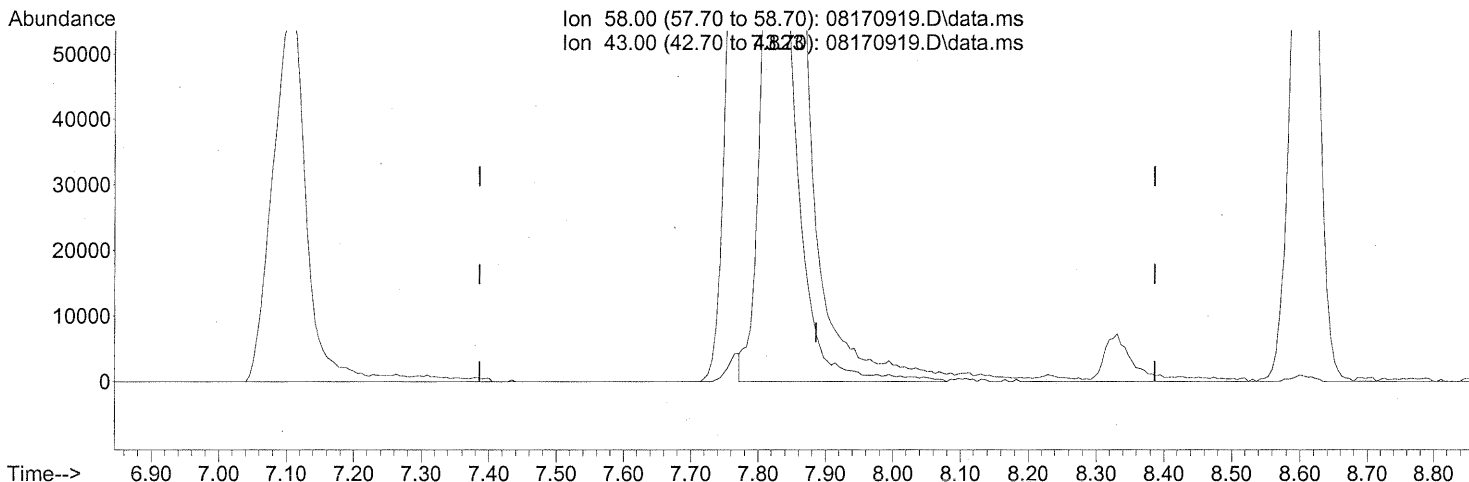
Ion	Exp%	Act%
58.00	100	100
43.00	340.40	316.16
0.00	0.00	0.00
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)
 7.823min (-0.063) 33.63ng m
 response 297095

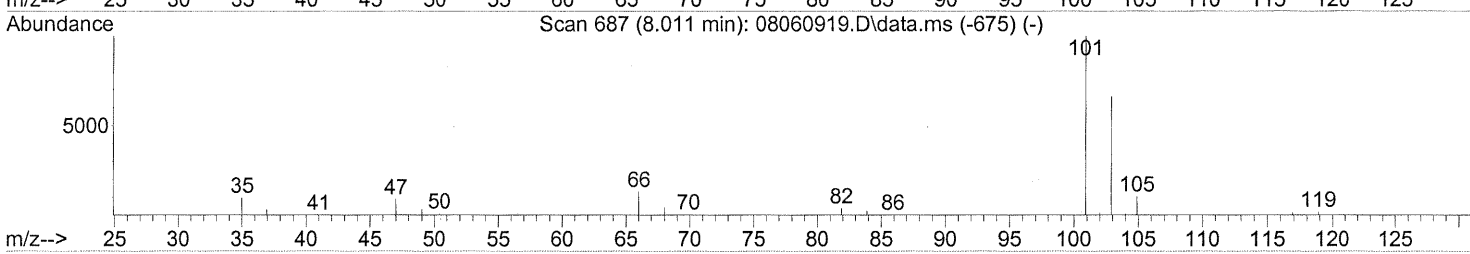
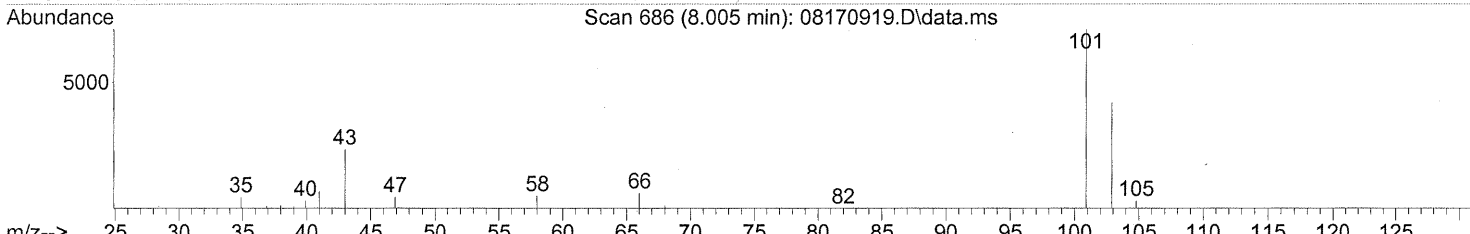
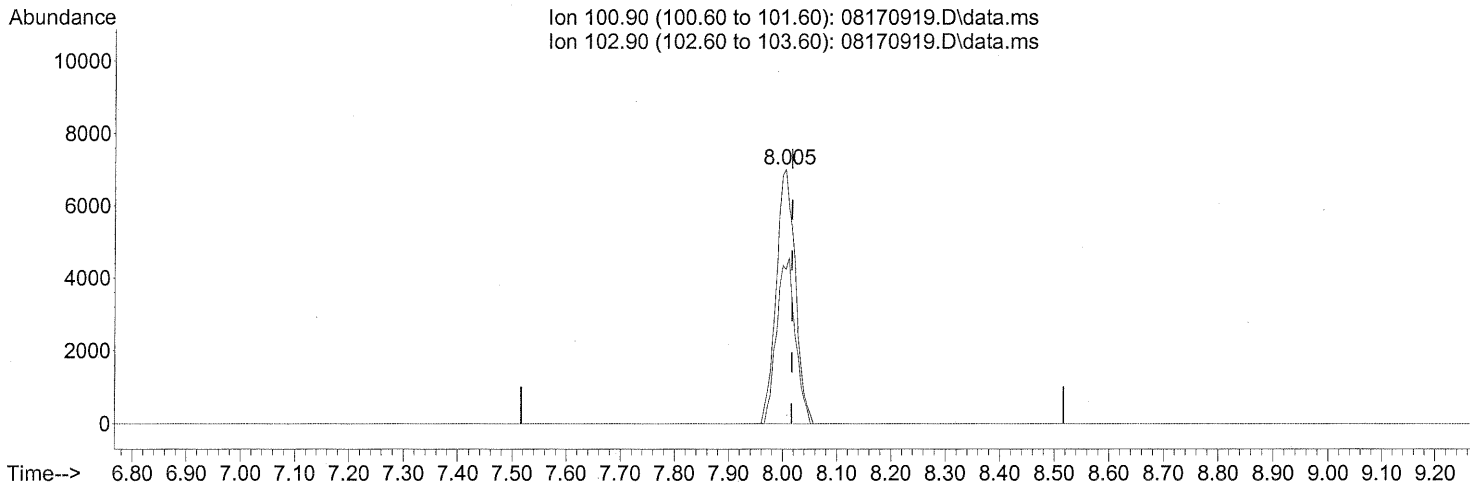
Ion	Exp%	Act%
58.00	100	100
43.00	340.40	322.00
0.00	0.00	0.00
0.00	0.00	0.00

SH → IC
 W 8/20/09
 em 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170919.D\data.ms

(14) Trichlorofluoromethane (T)

8.005min (-0.012) 0.79ng

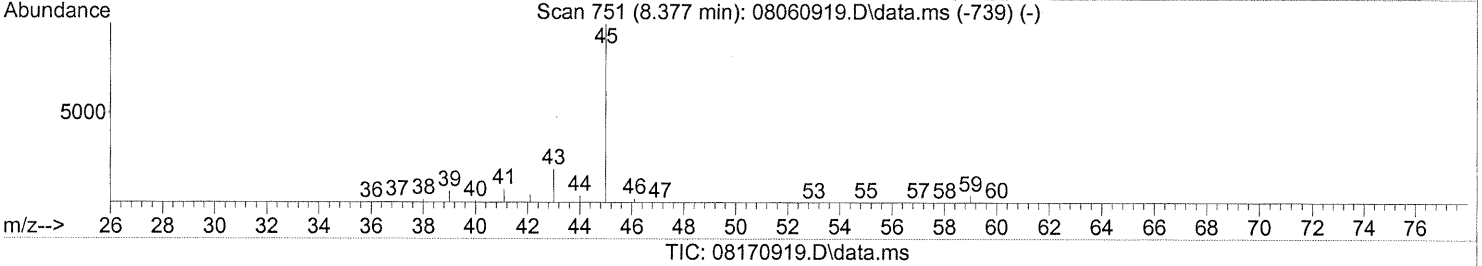
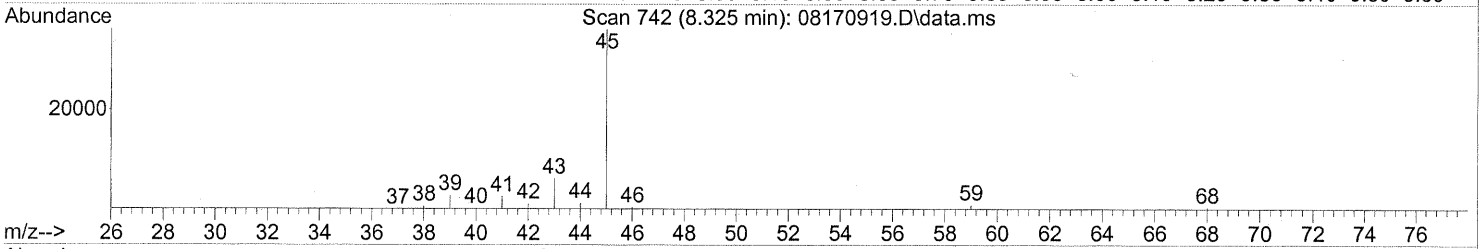
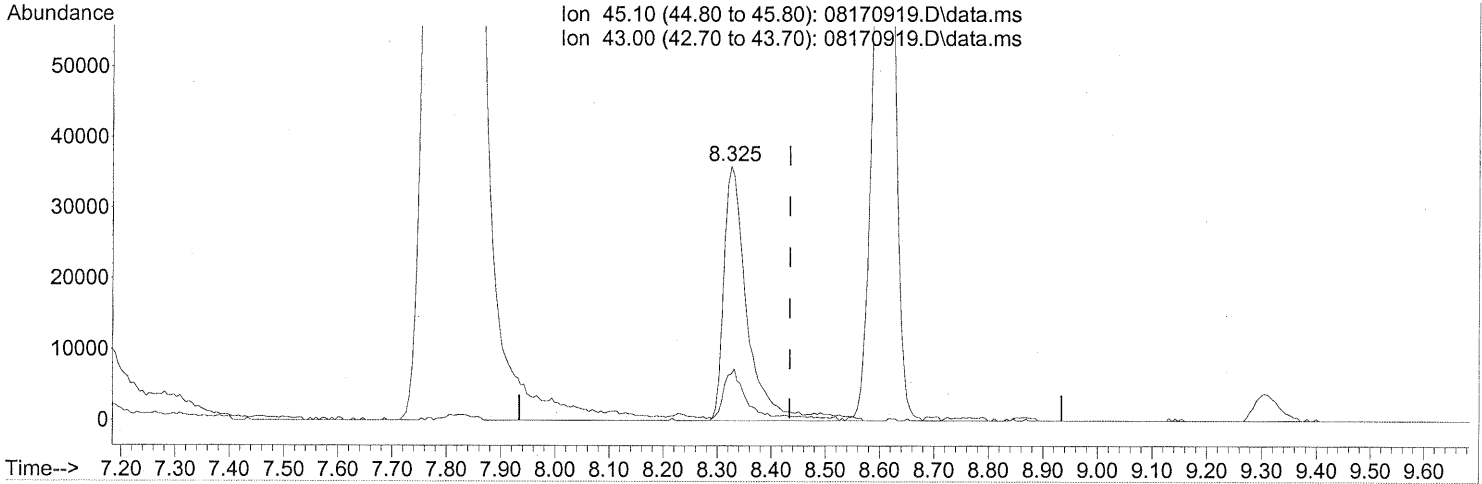
response 17344

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.325min (-0.109) 3.14ng

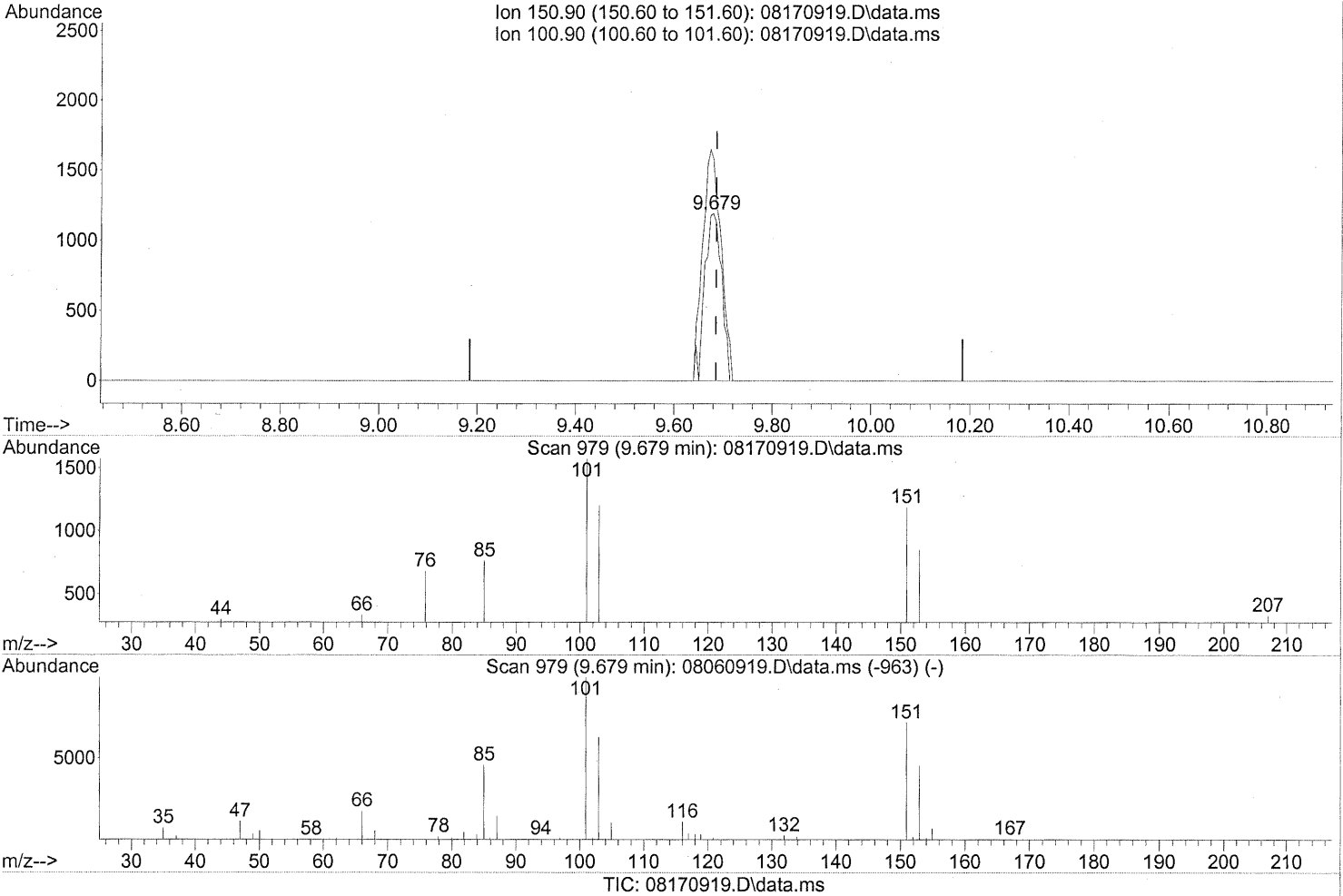
response 108864

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	21.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170919.D
Acq On : 17 Aug 2009 17:59
Operator : WA
Sample : P0902721-001 dup (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.36ng

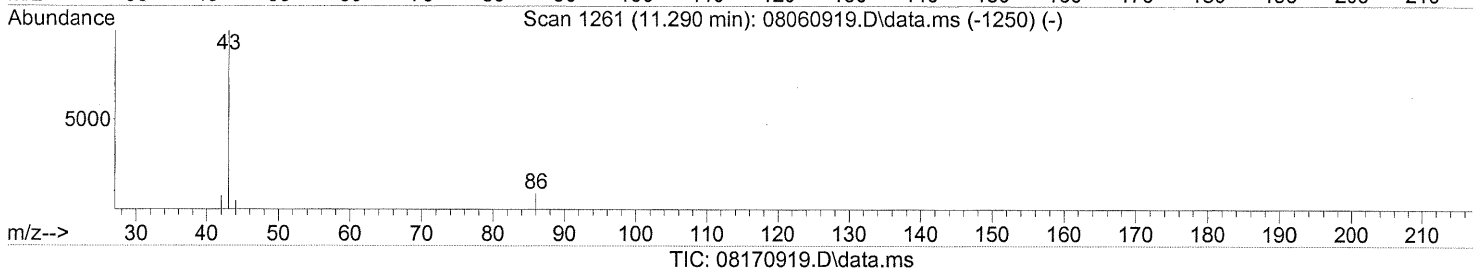
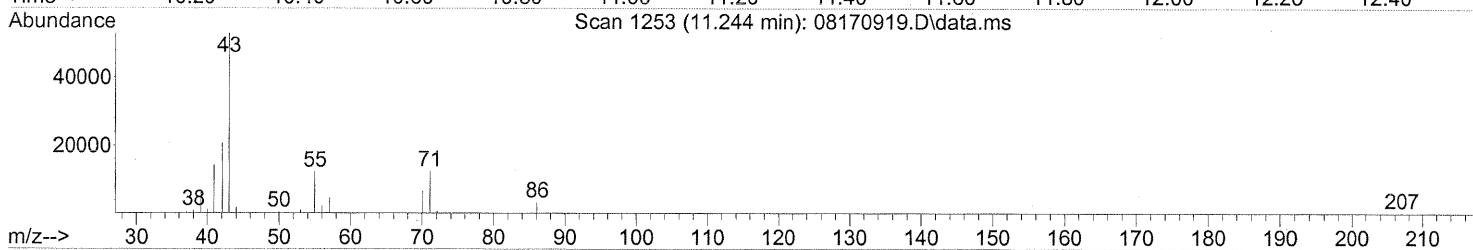
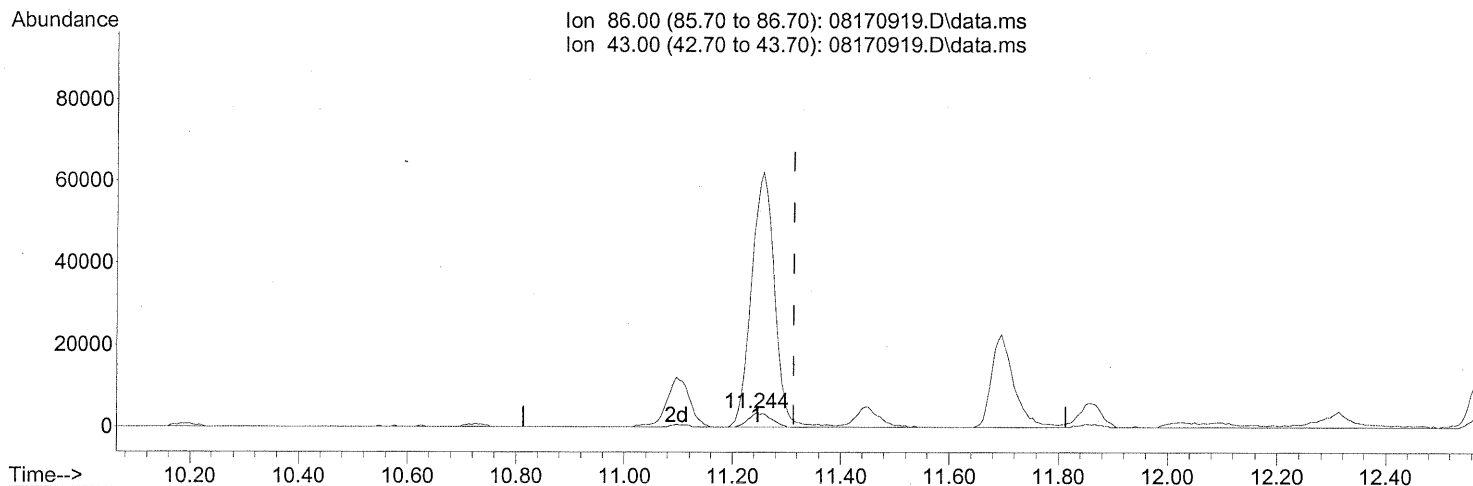
response 2851

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	149.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170919.D
Acq On : 17 Aug 2009 17:59
Operator : WA
Sample : P0902721-001 dup (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(26) Vinyl Acetate (T)
11.244min (-0.069) 5.45ng

FP LR 8/20/09

response 9793

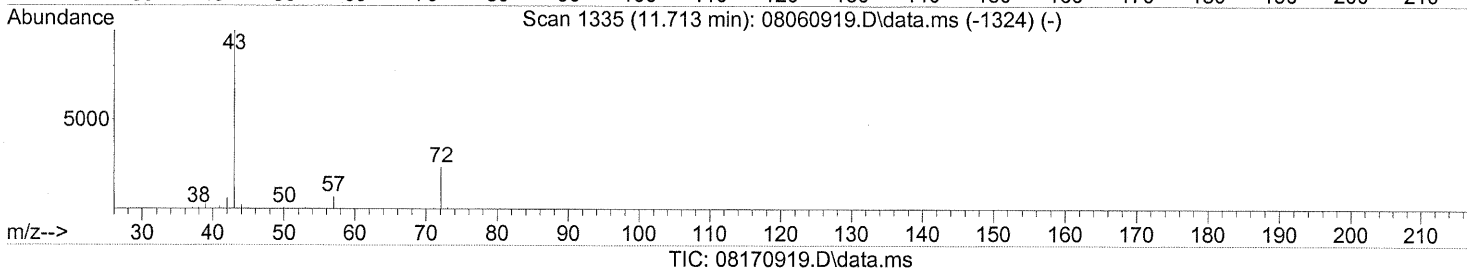
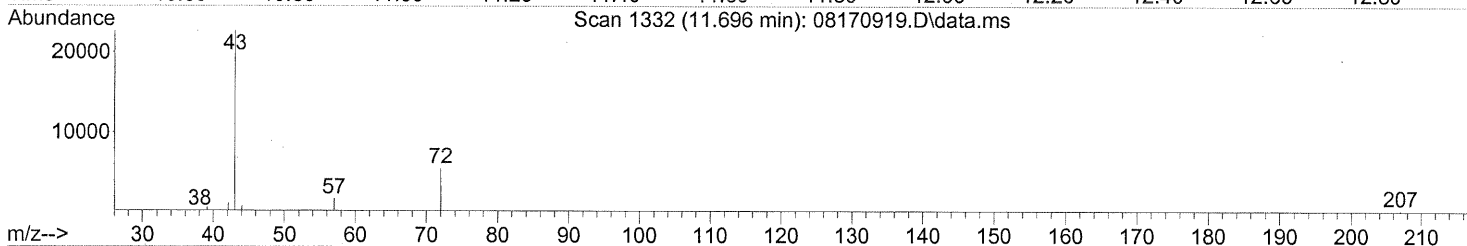
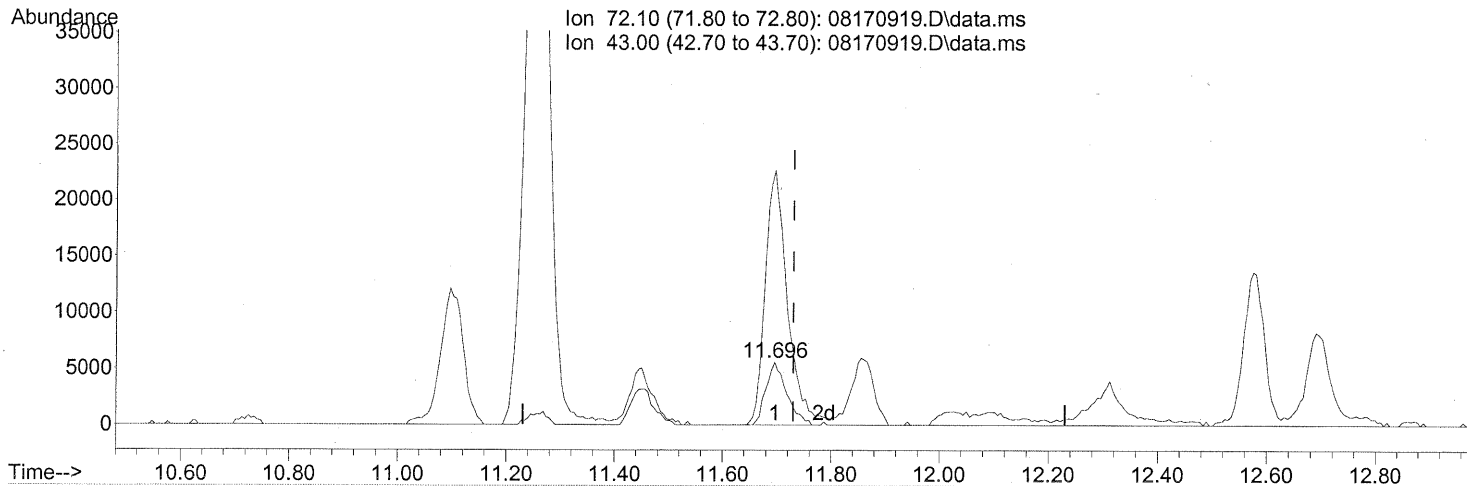
com 8/21/09

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1869.22#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.696min (-0.034) 1.87ng

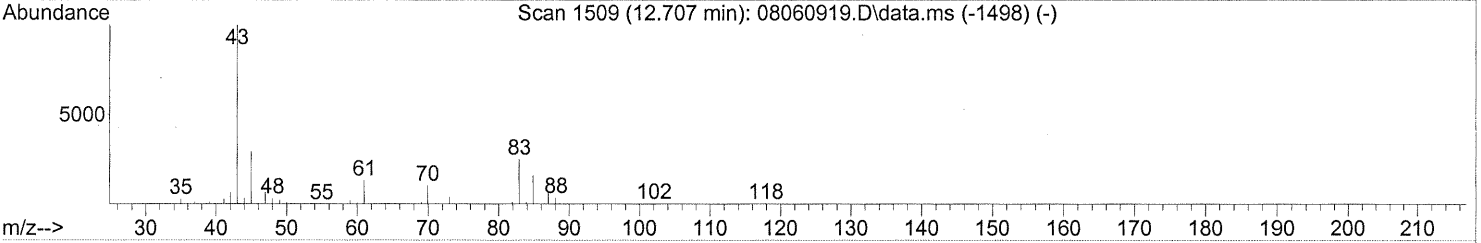
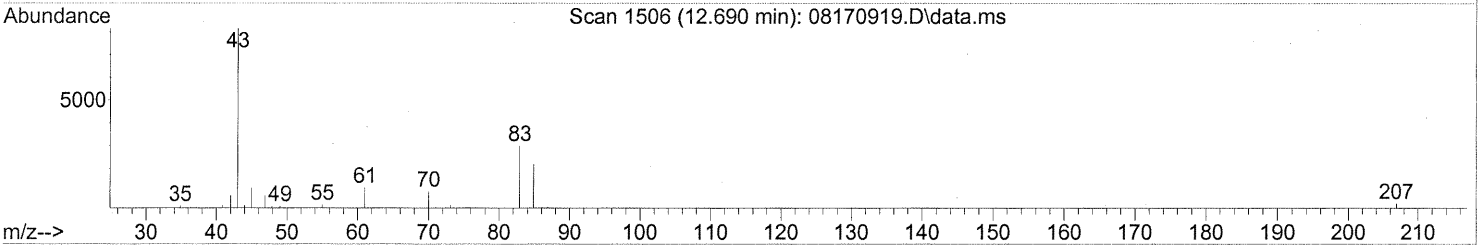
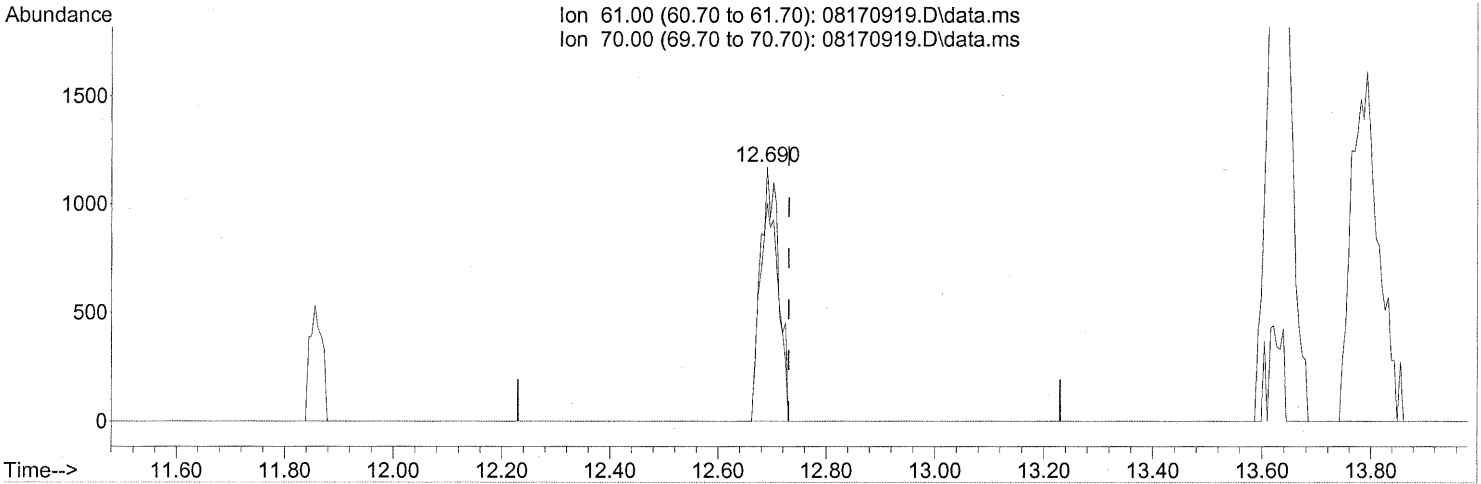
response 14938

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	435.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170919.D\data.ms

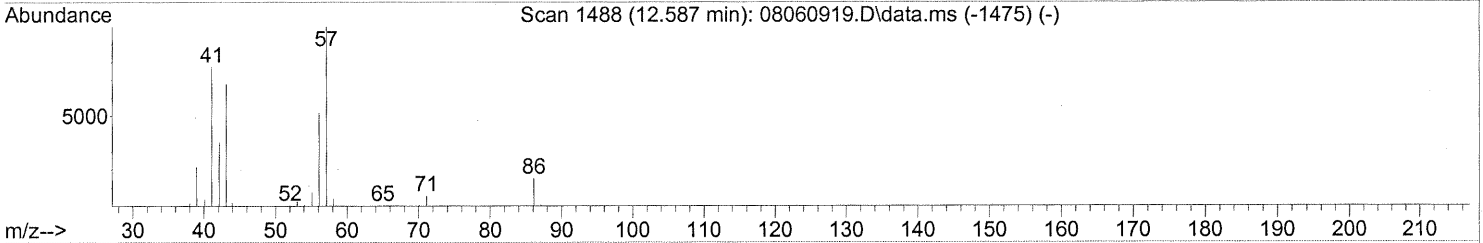
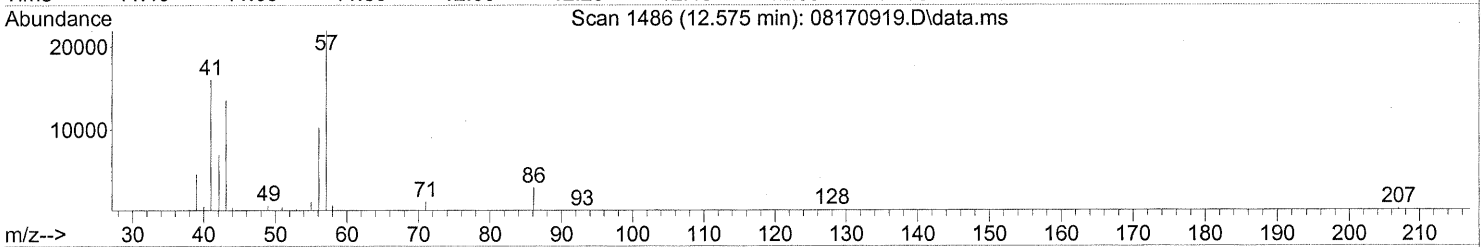
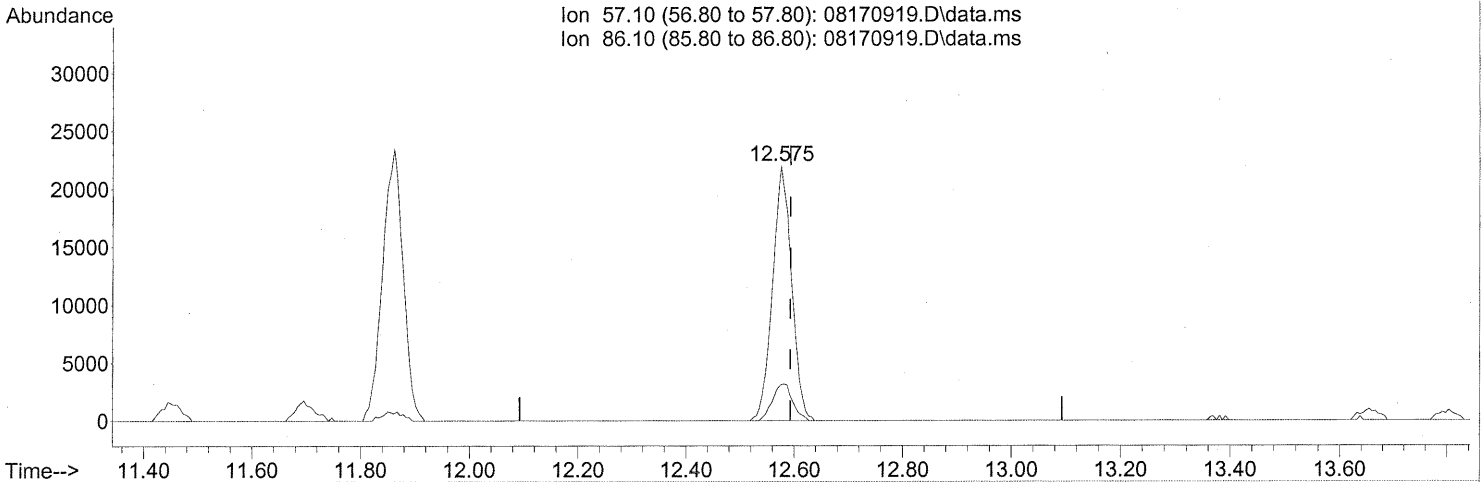
(30) Ethyl Acetate (T)
 12.690min (-0.040) 0.67ng
 response 2785

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	88.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08170919.D\data.ms

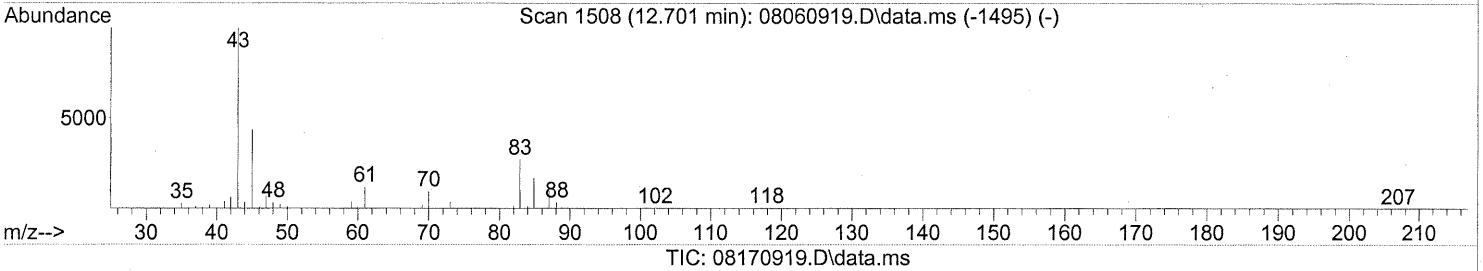
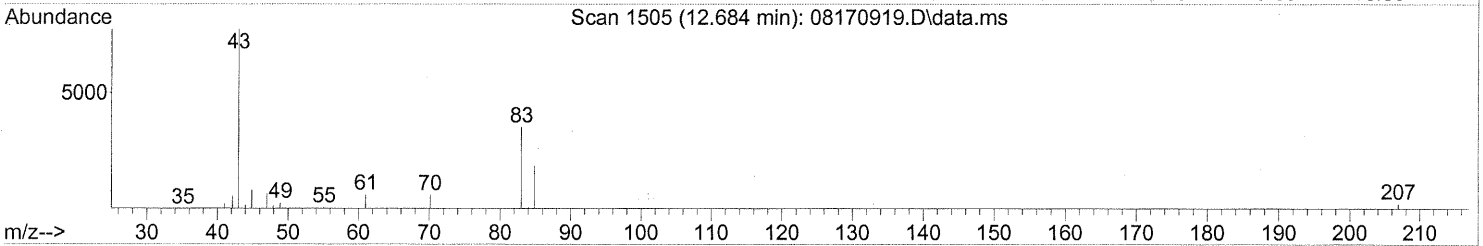
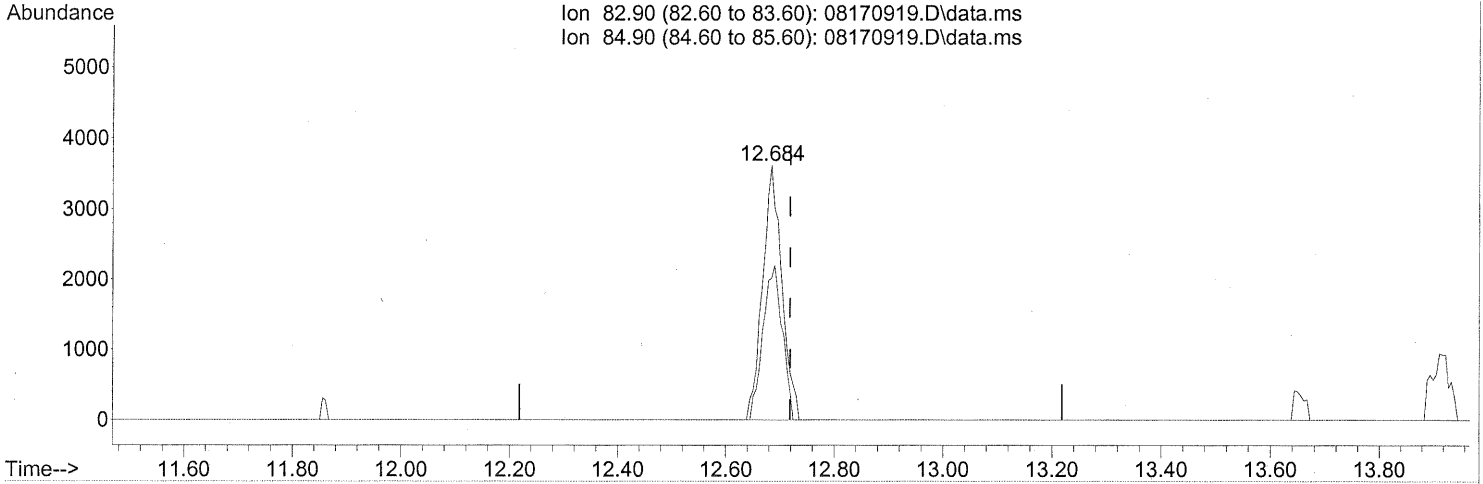
(31) n-Hexane (T)
 12.575min (-0.017) 2.52ng
 response 53635

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



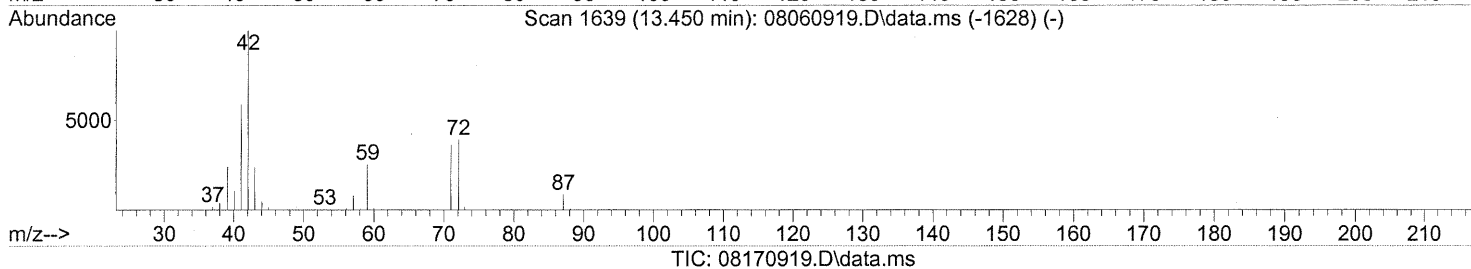
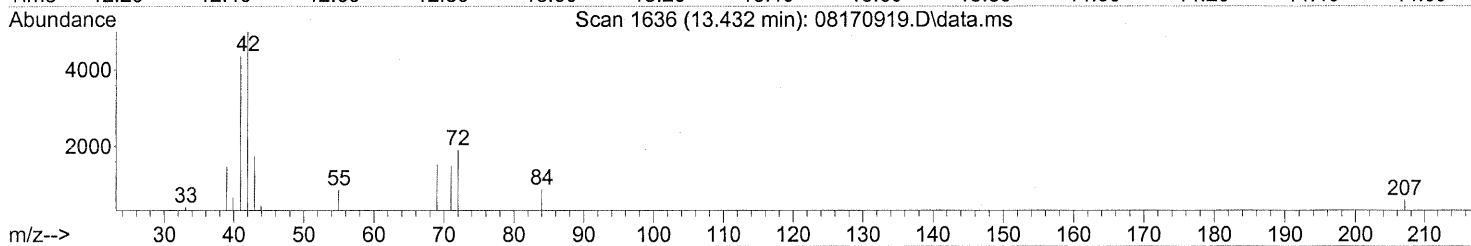
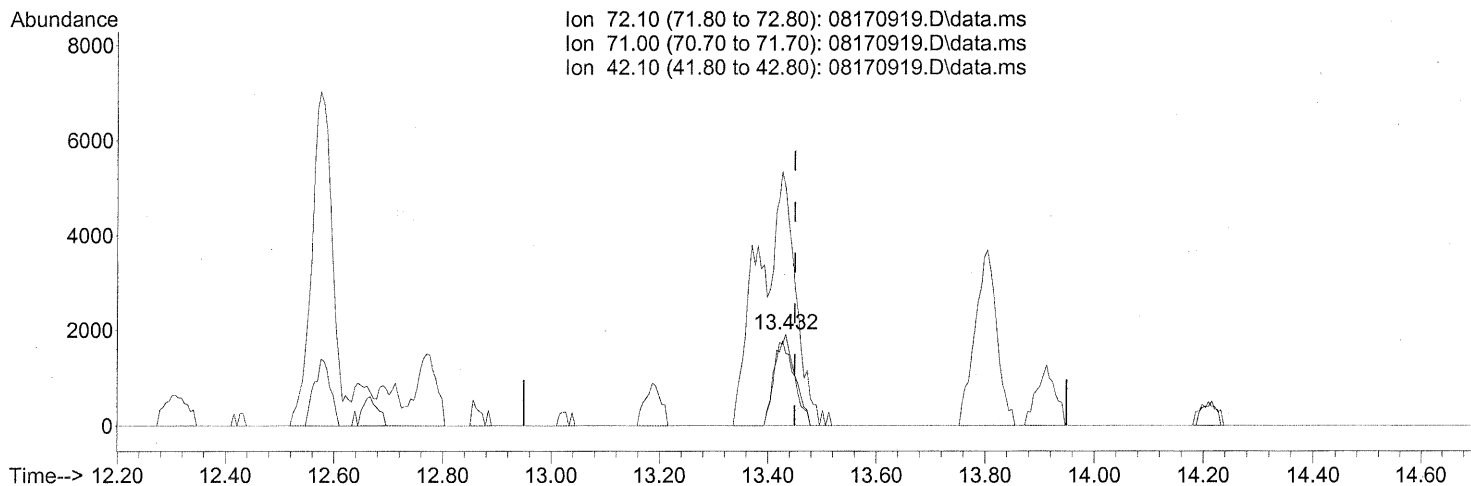
(32) Chloroform (T)
 12.684min (-0.034) 0.48ng
 response 8947

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	60.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.432min (-0.017) 0.60ng

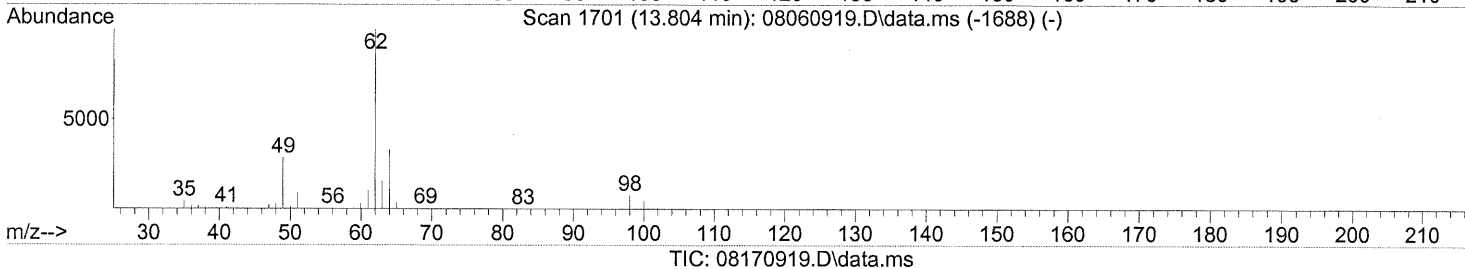
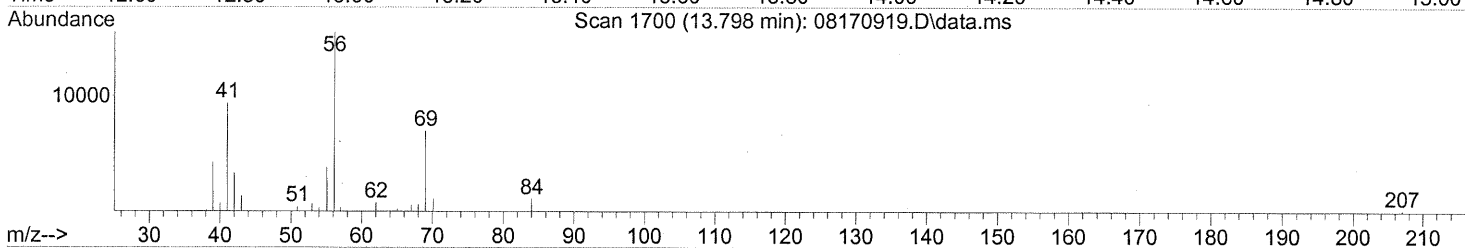
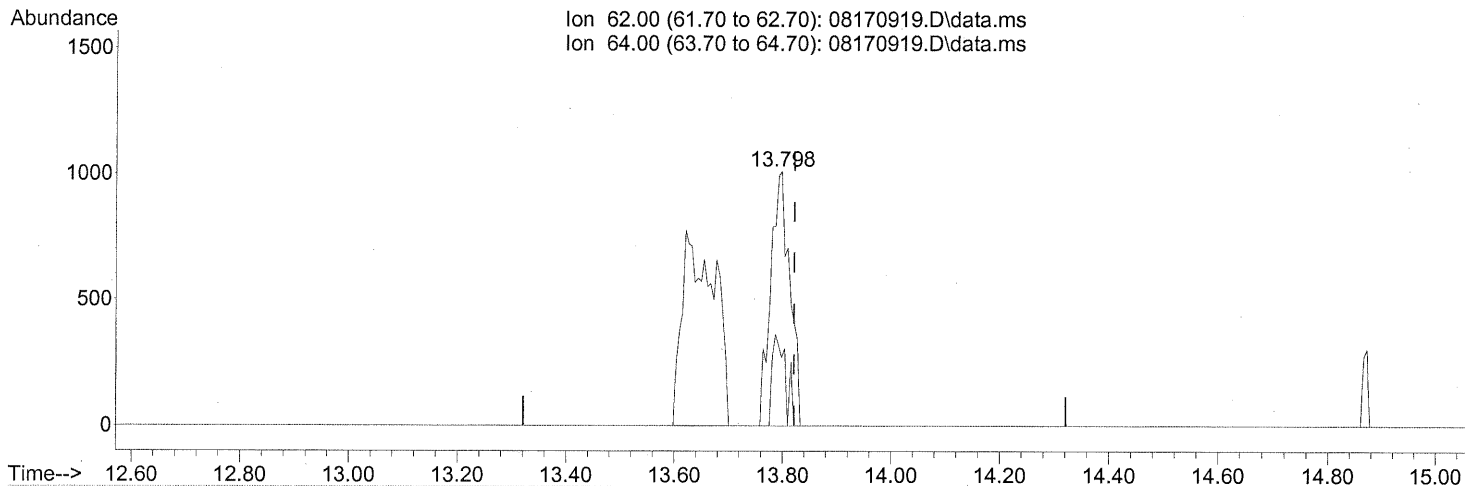
response 5076

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	90.45
42.10	253.40	279.63#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



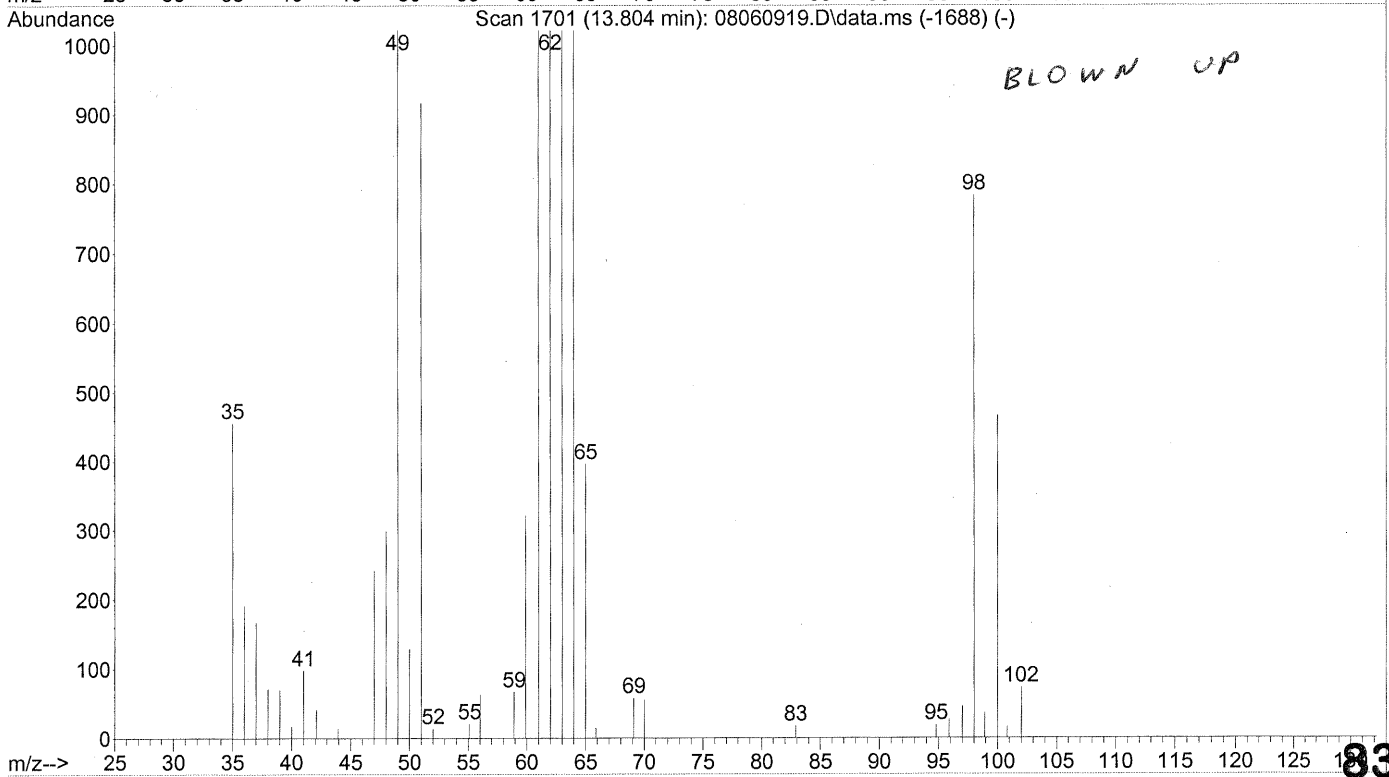
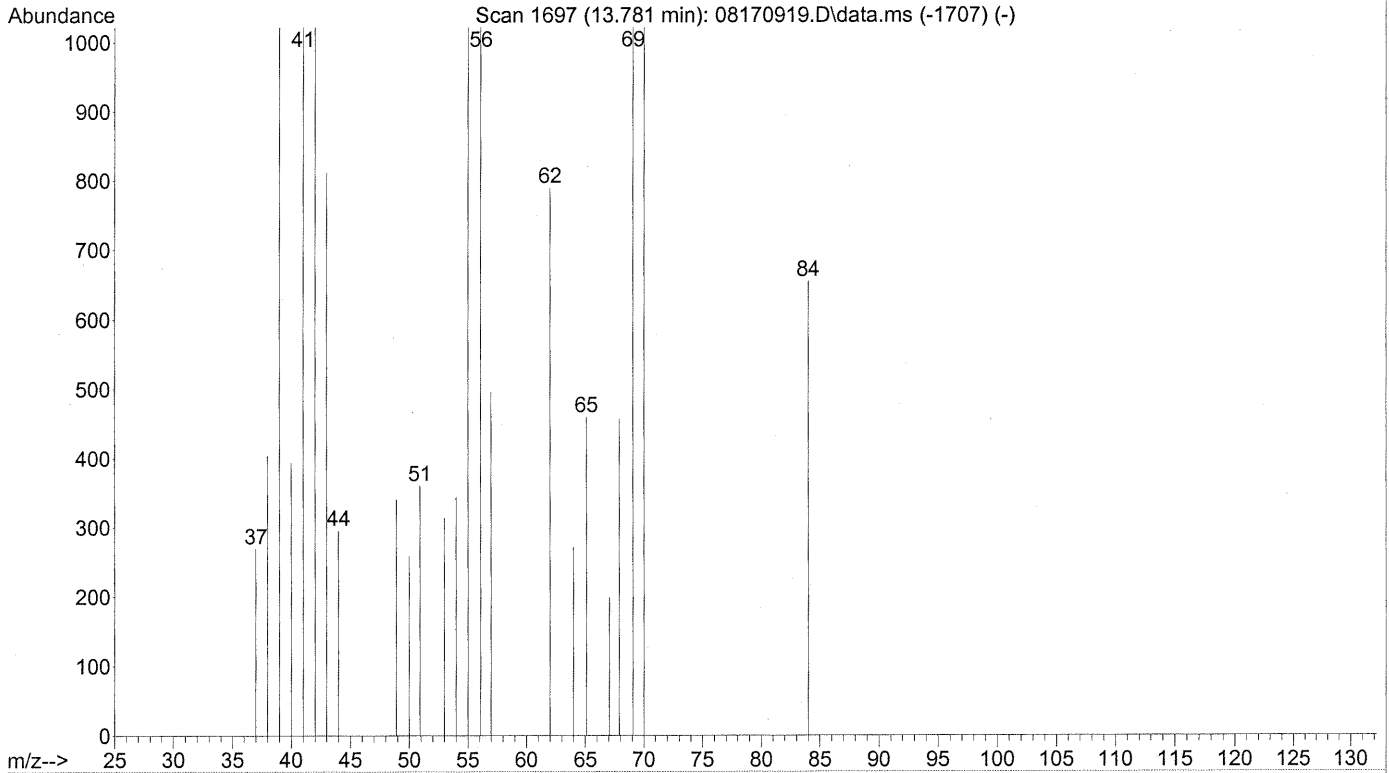
(36) 1,2-Dichloroethane (T)

13.798min (-0.023) 0.14ng

response 2468

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	24.76
0.00	0.00	0.00
0.00	0.00	0.00

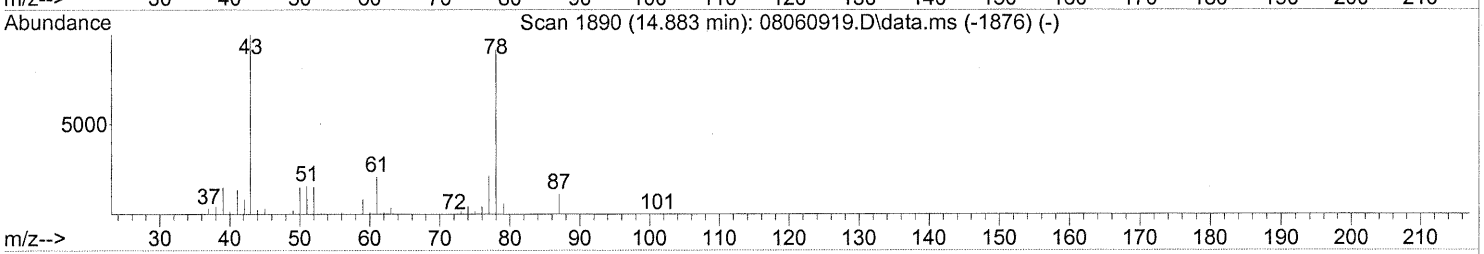
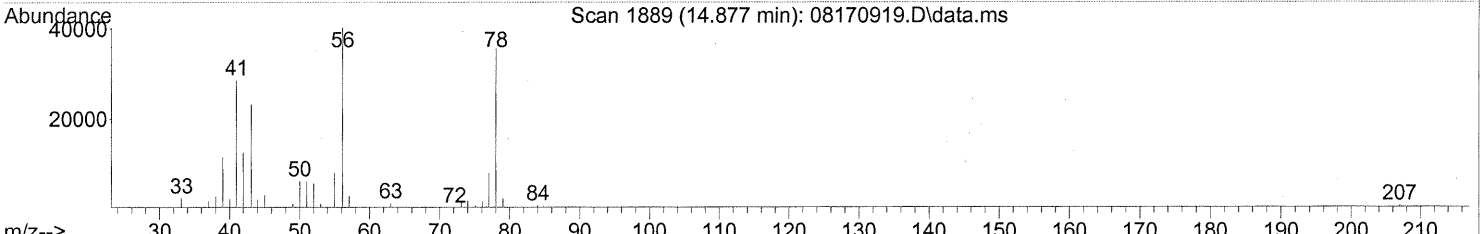
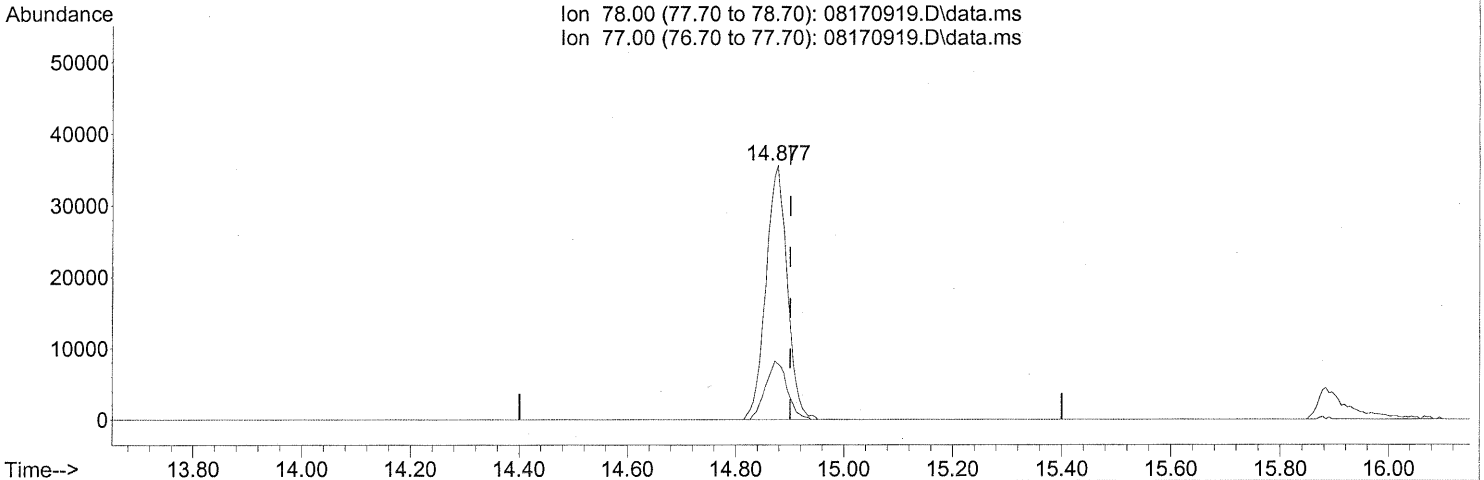
File :J:\MS13\DATA\2009_08\17\08170919.D
Operator : WA
Acquired : 17 Aug 2009 17:59 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0902721-001 dup (1000mL)
Misc Info : Env. Health & Engineering 100214
Vial Number: 5



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.877min (-0.023) 2.02ng

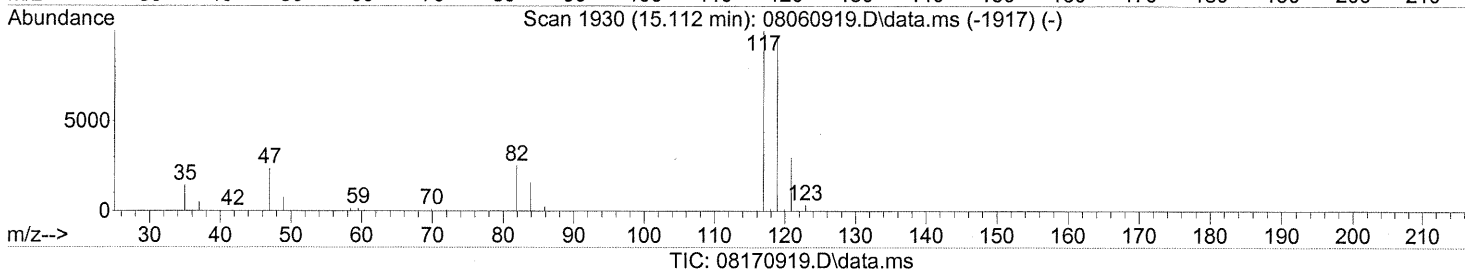
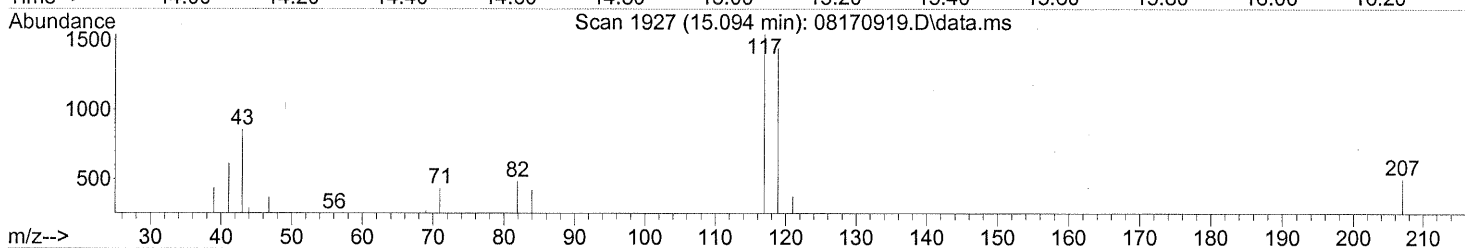
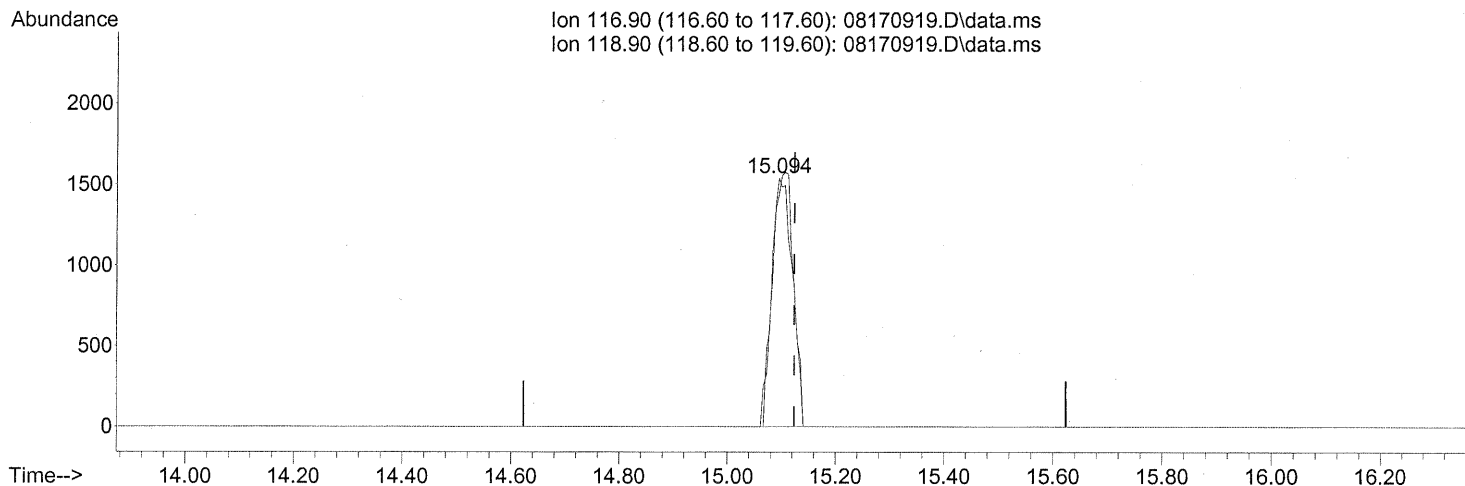
response 97730

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170919.D
Acq On : 17 Aug 2009 17:59
Operator : WA
Sample : P0902721-001 dup (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.094min (-0.029) 0.27ng

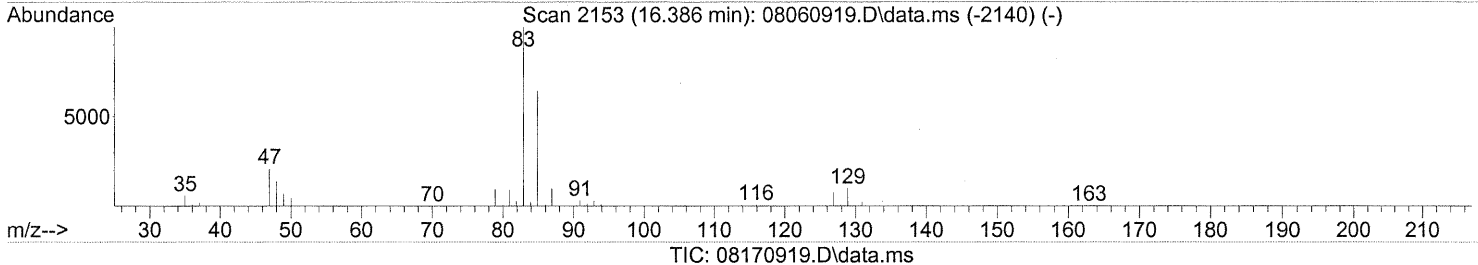
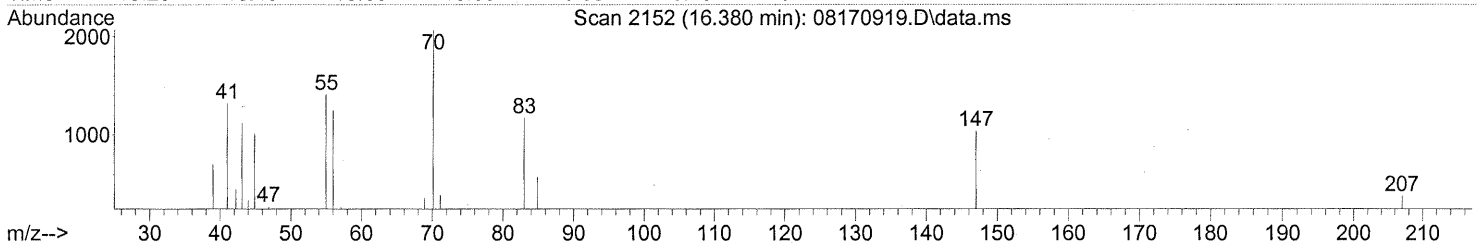
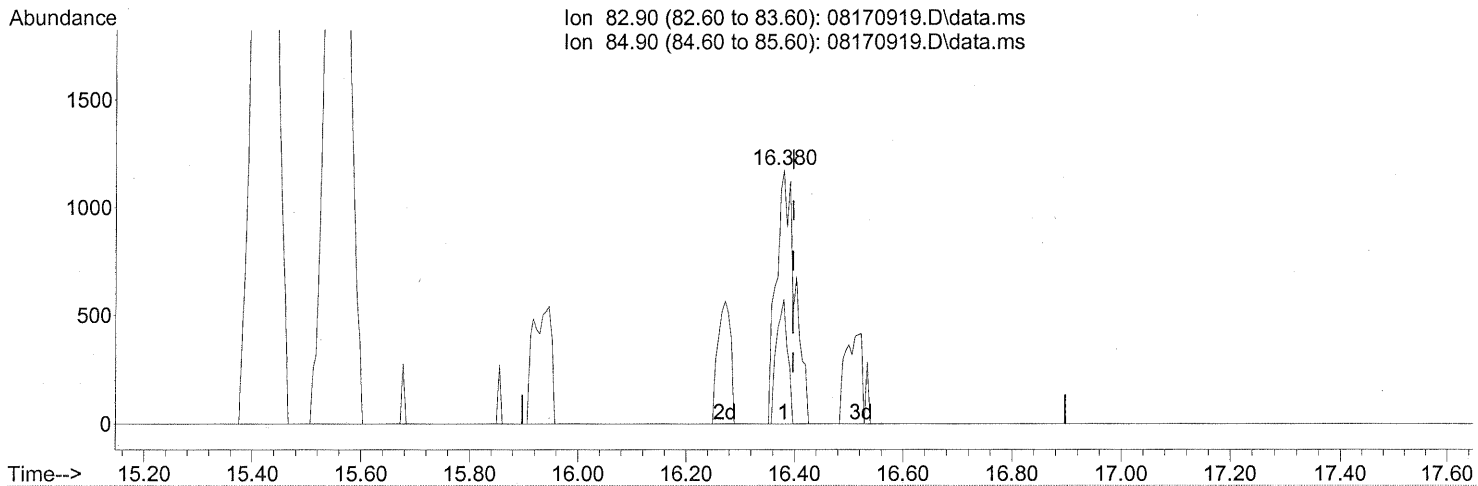
response 4125

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	103.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170919.D
Acq On : 17 Aug 2009 17:59
Operator : WA
Sample : P0902721-001 dup (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.18ng

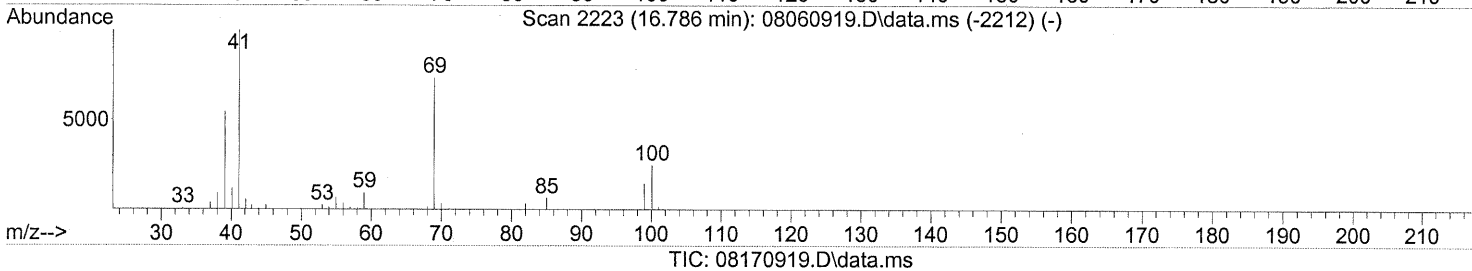
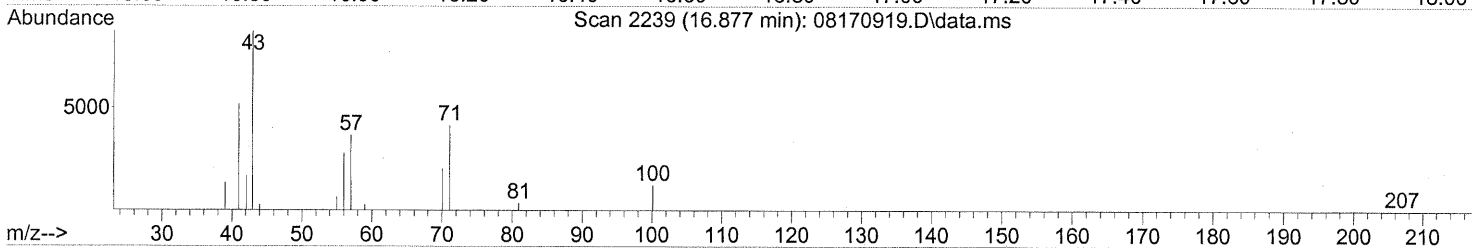
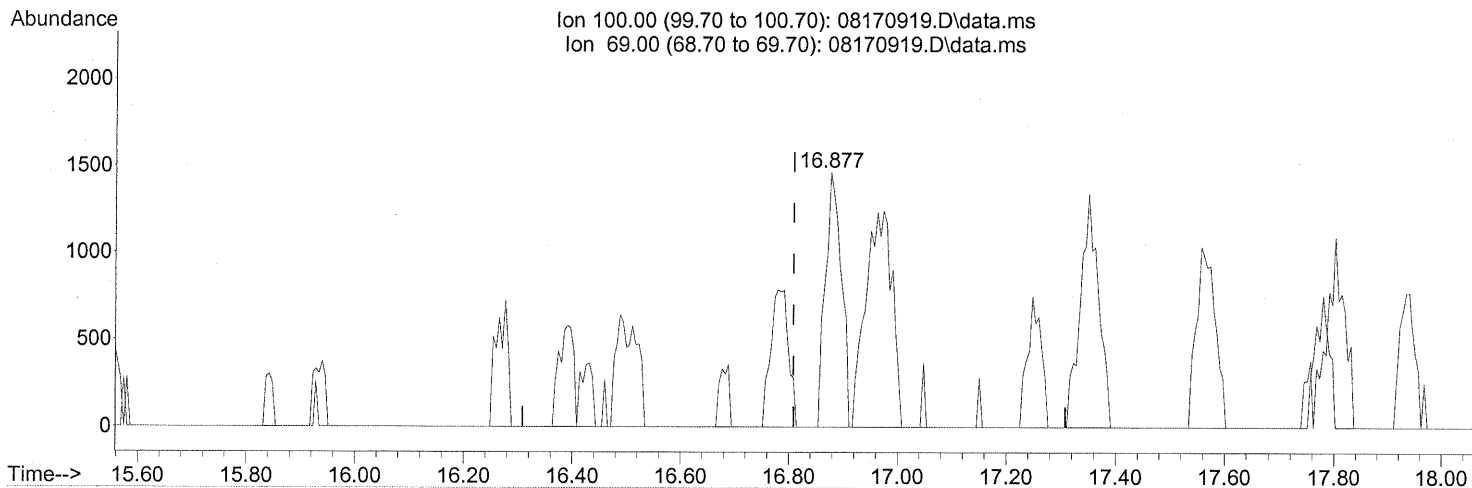
response 2840

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	29.23#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.877min (+0.068) 0.67ng

response 2981

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

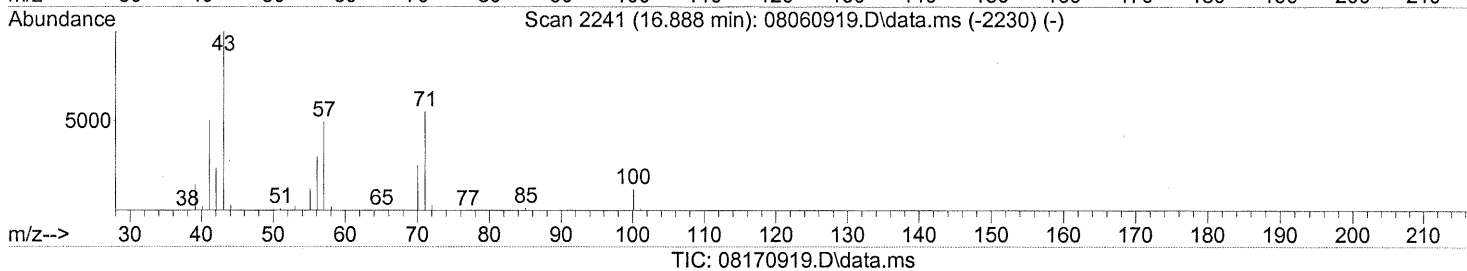
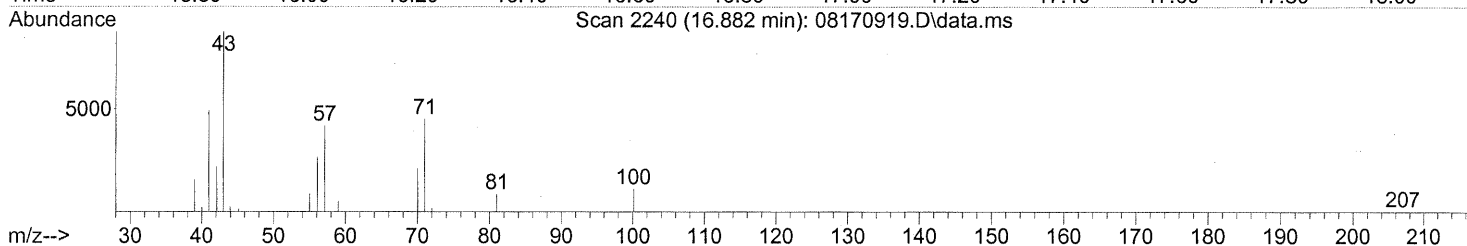
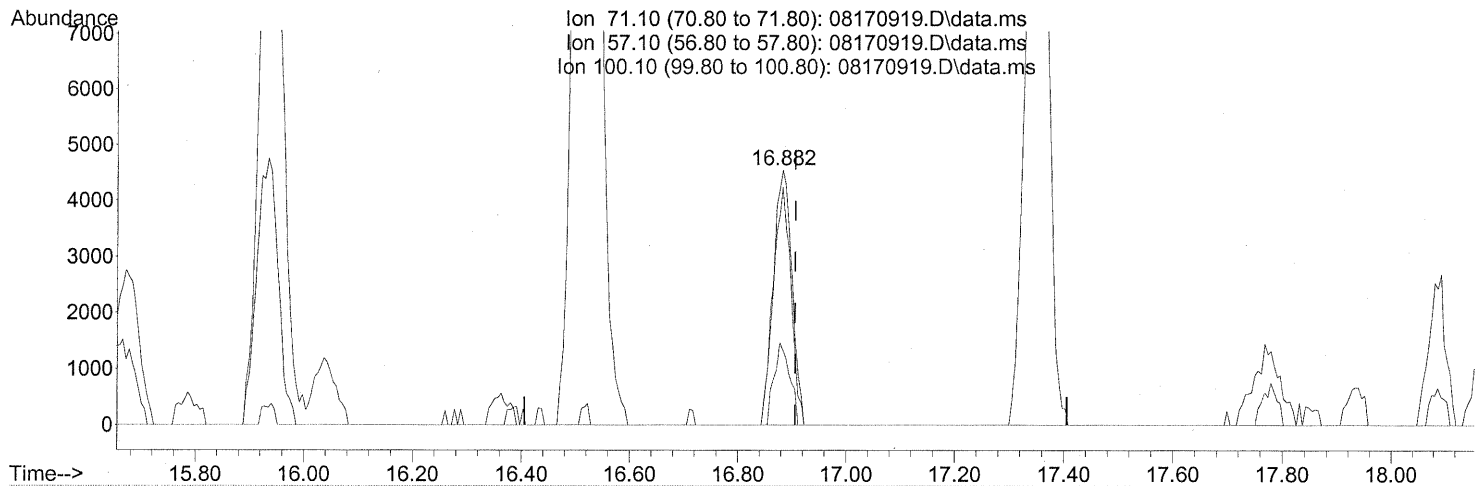
FP LH 8/20/09

Sam 8/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(51) n-Heptane (T)

16.882min (-0.023) 0.84ng

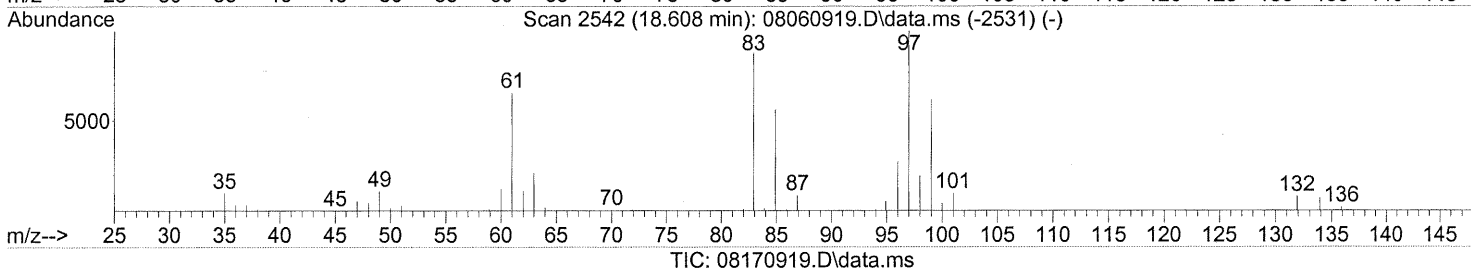
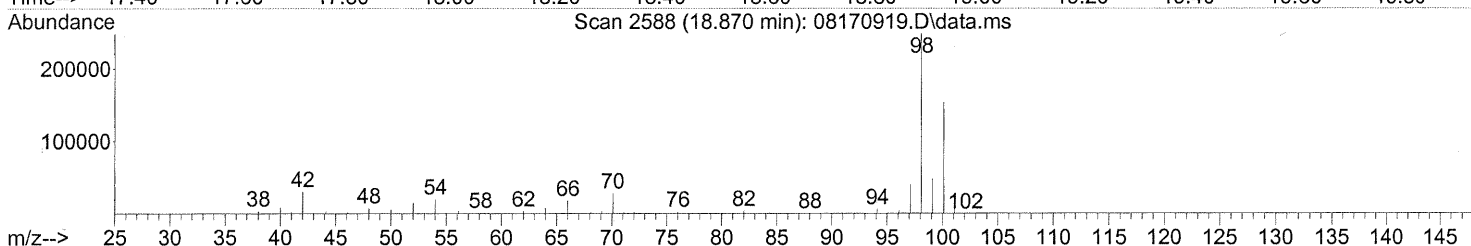
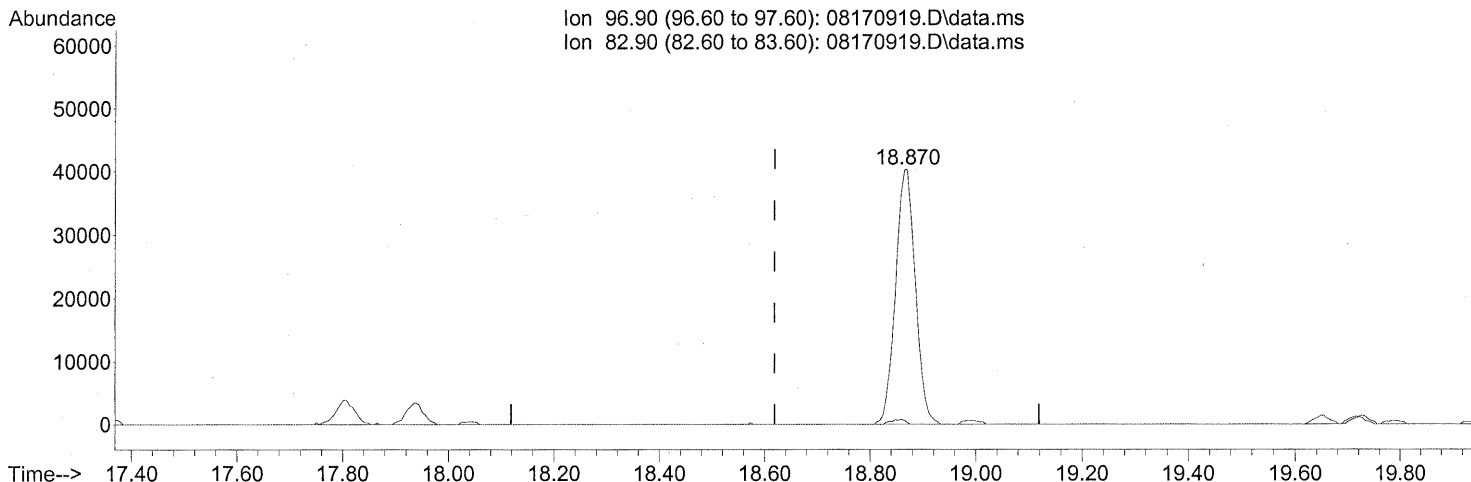
response 10947

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	87.52
100.10	26.40	27.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
Data File : 08170919.D
Acq On : 17 Aug 2009 17:59
Operator : WA
Sample : P0902721-001 dup (1000mL)
Misc : Env. Health & Engineering 100214
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

FP in 8/20/09

18.870min (+0.251) 9.85ng

response 104475

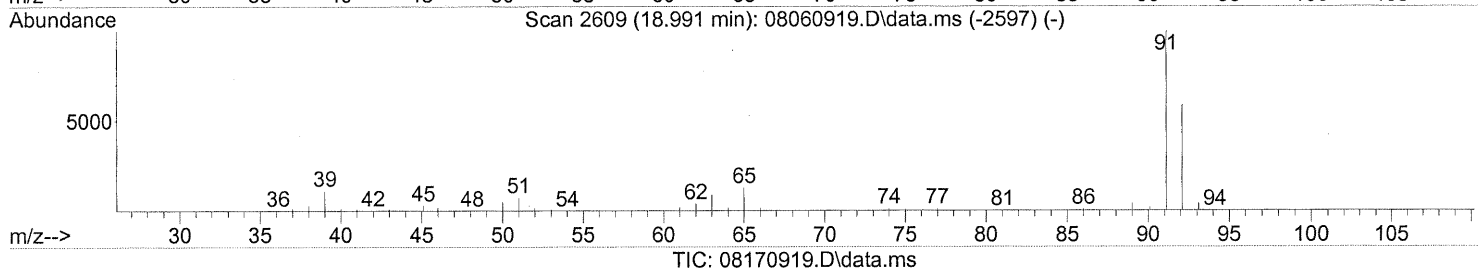
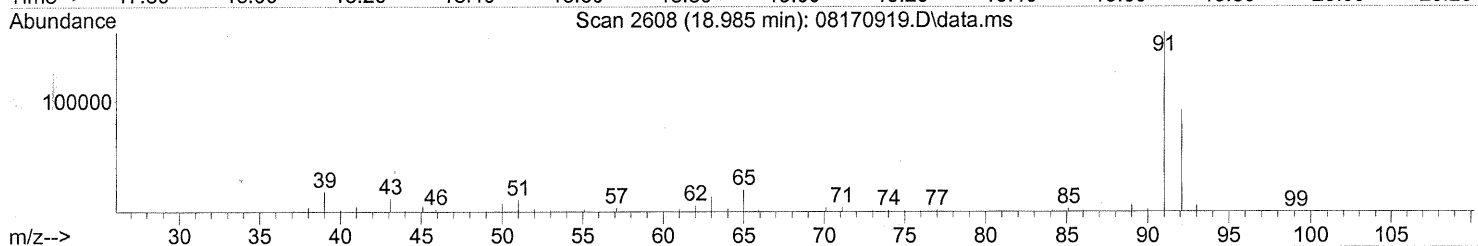
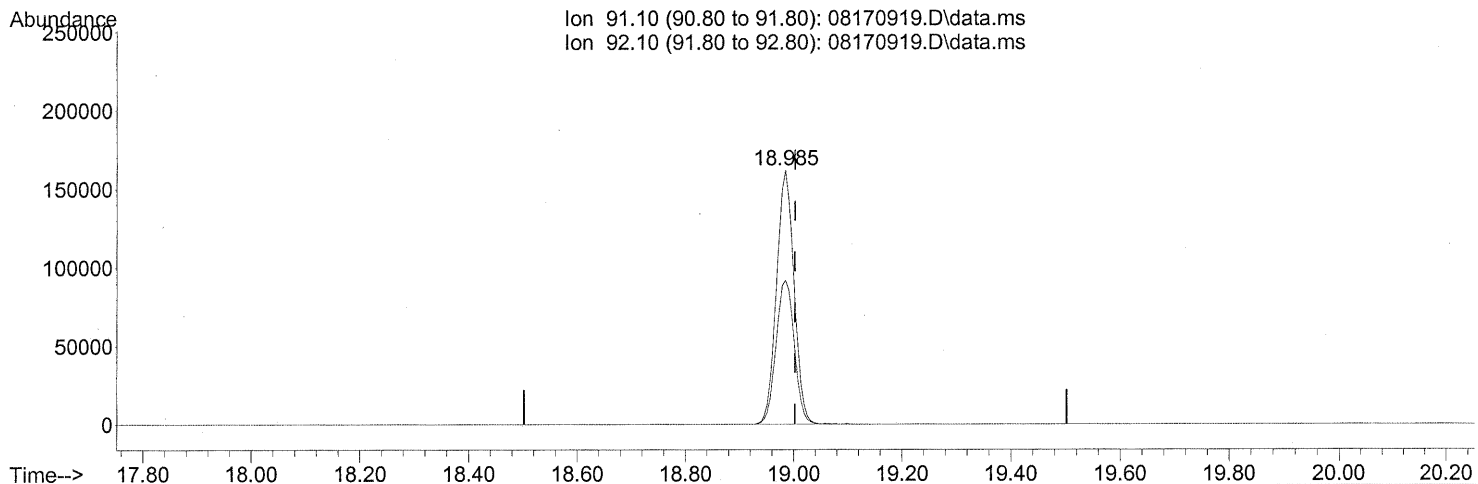
com 8/21/09

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.33#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 7.94ng

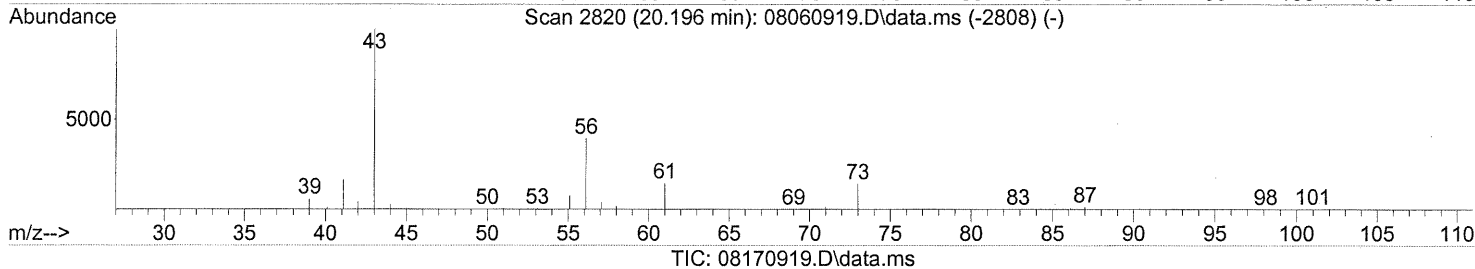
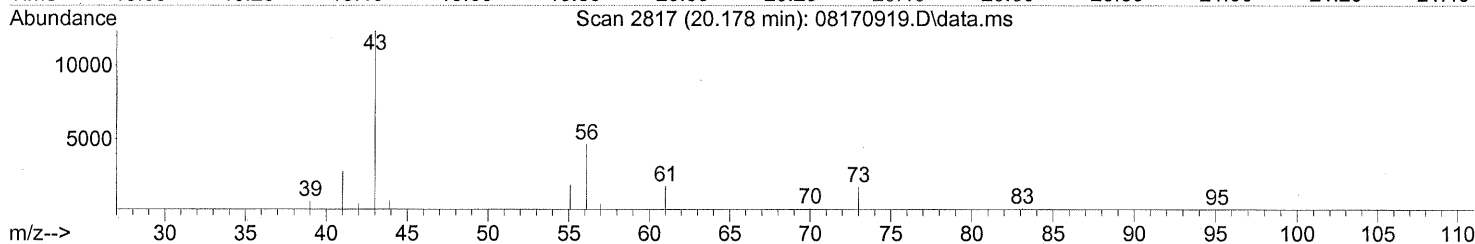
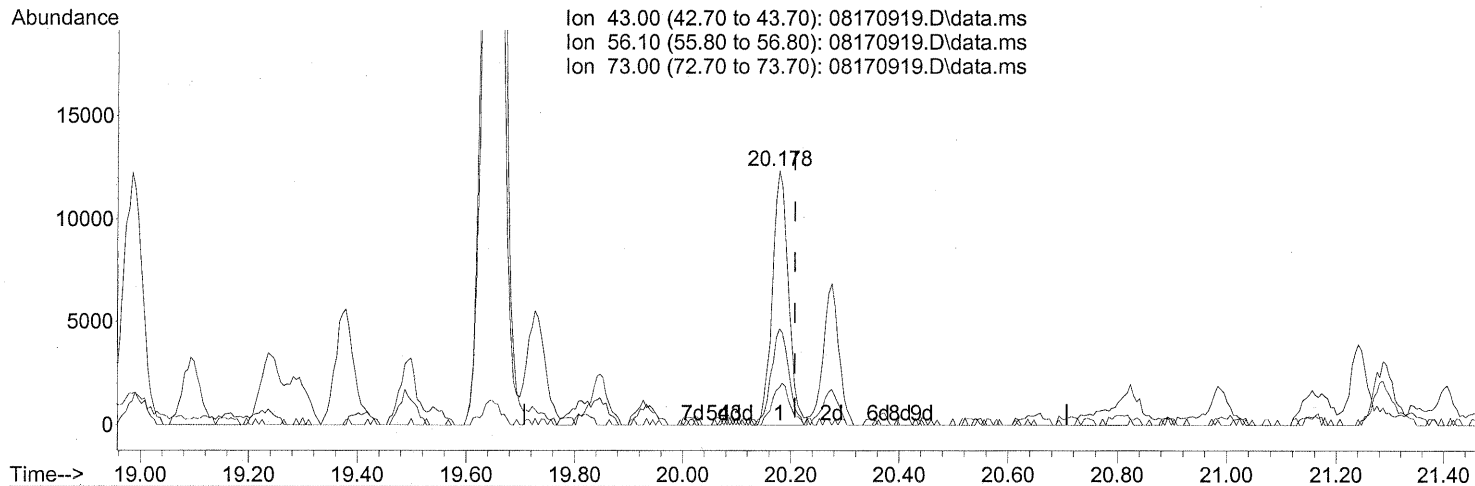
response 362201

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(62) n-Butyl Acetate (T)

20.178min (-0.029) 0.72ng

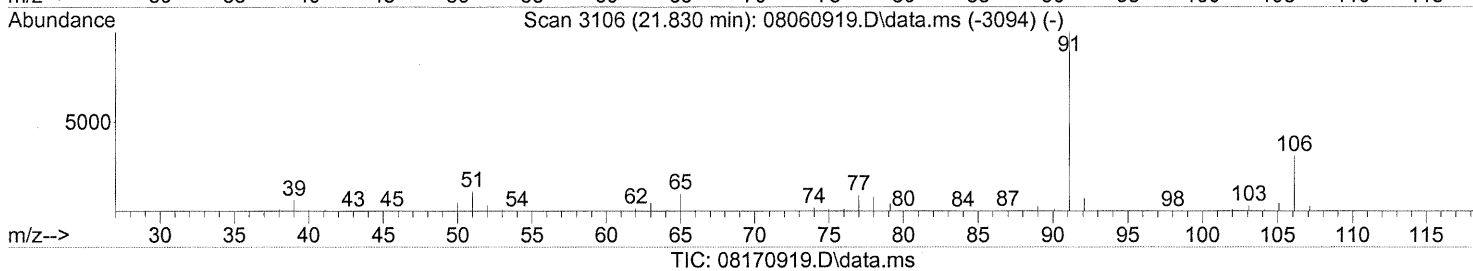
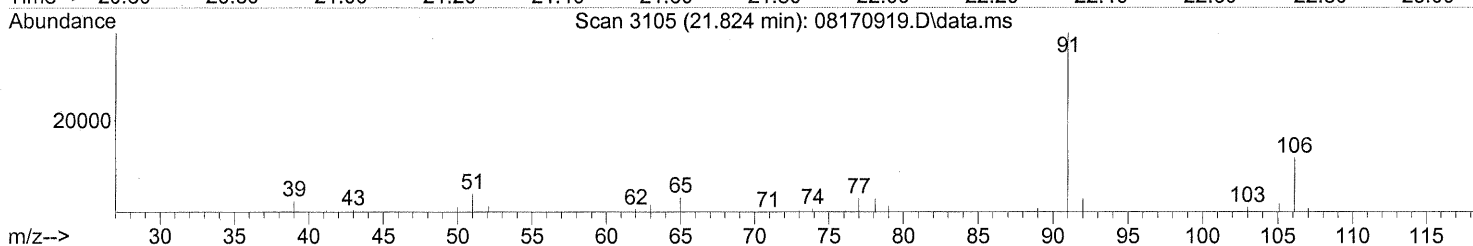
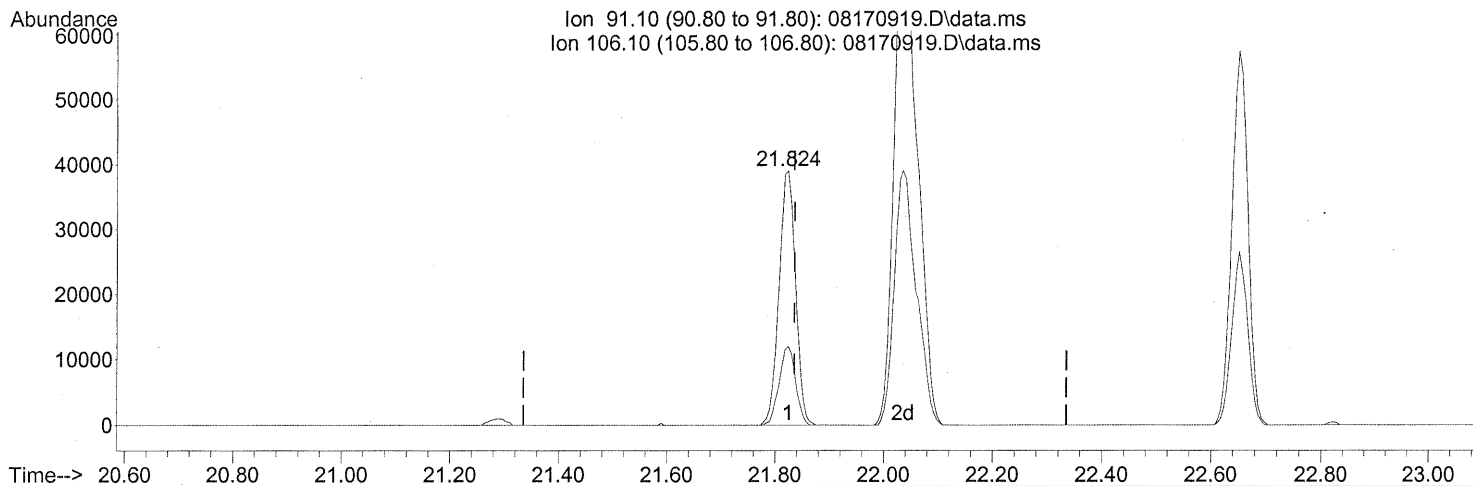
response 25623

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	41.15
73.00	14.80	17.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



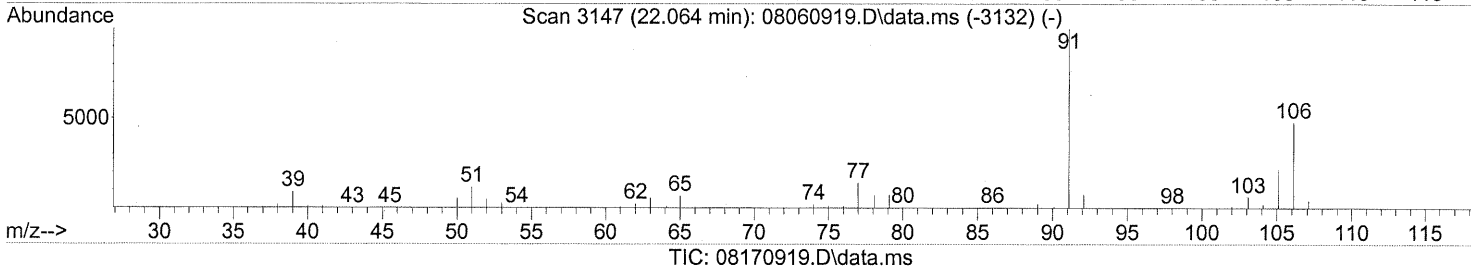
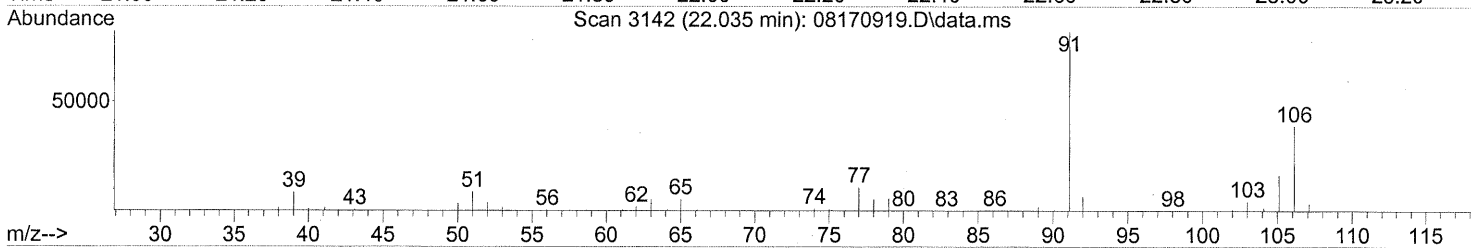
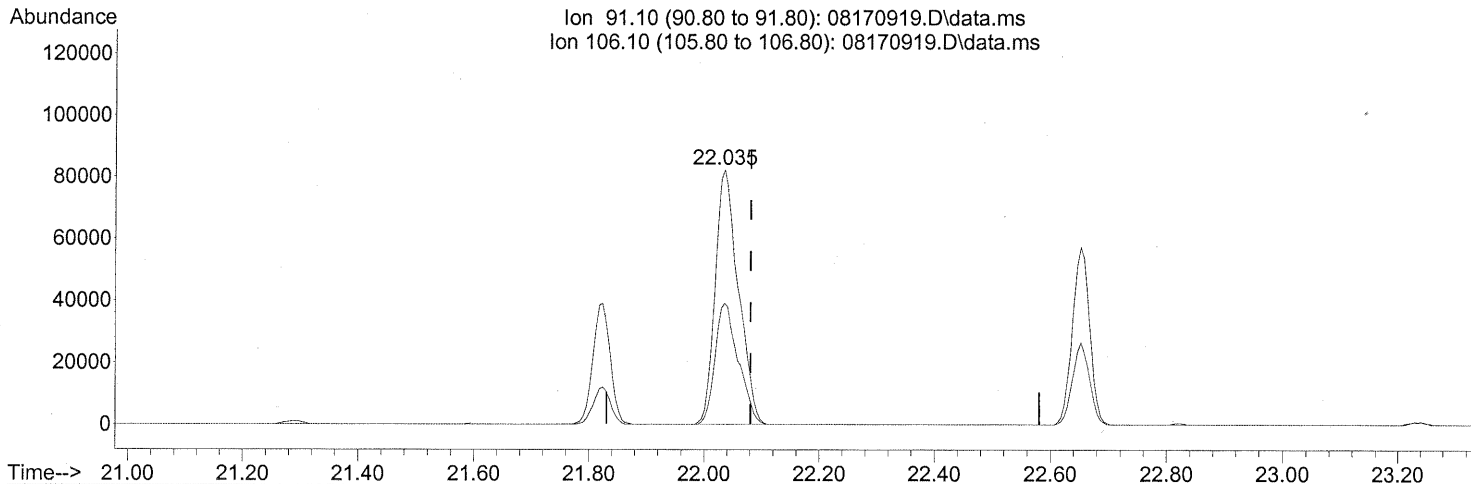
(66) Ethylbenzene (T)
 21.824min (-0.012) 1.57ng
 response 81951

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

22.035min (-0.046) 5.48ng

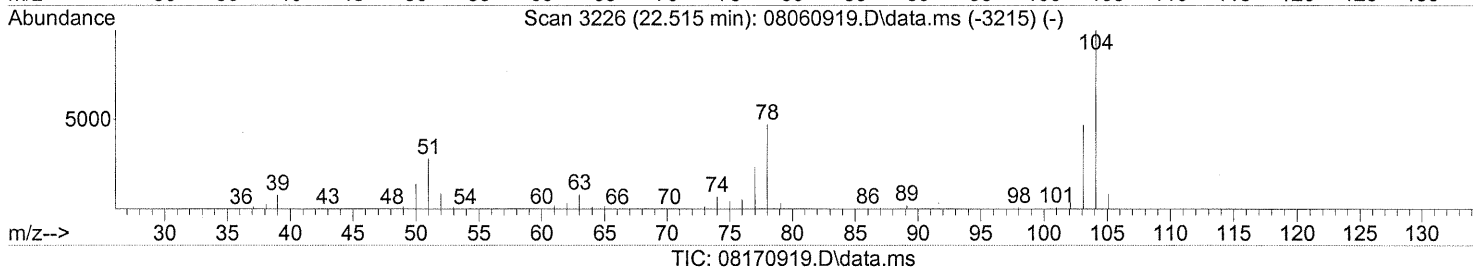
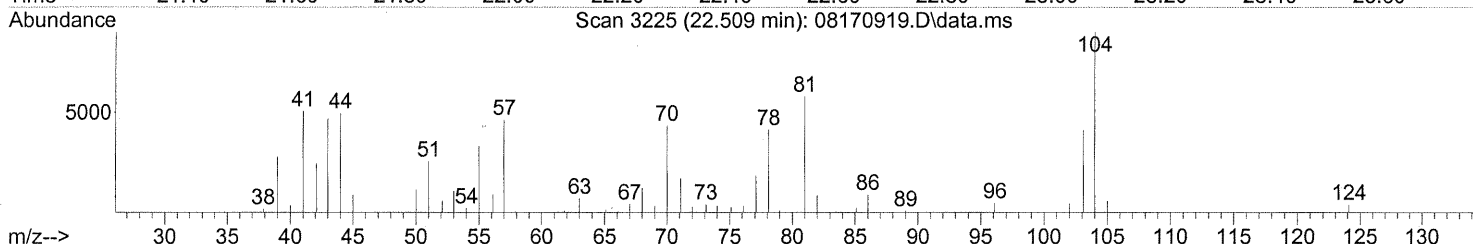
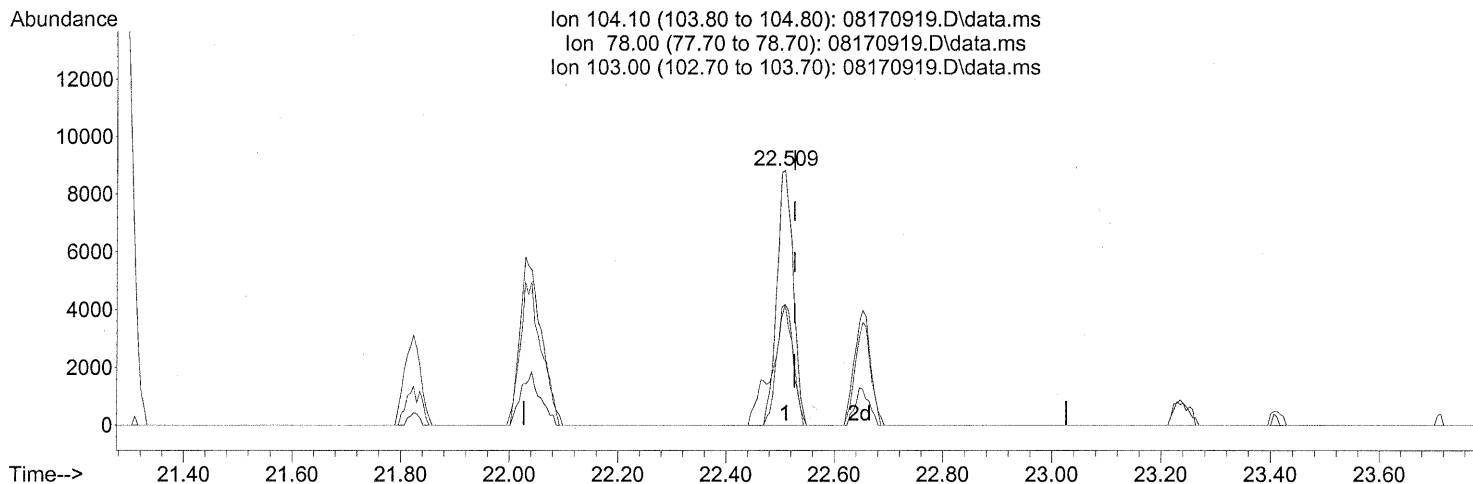
response 231060

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.509min (-0.017) 0.61ng

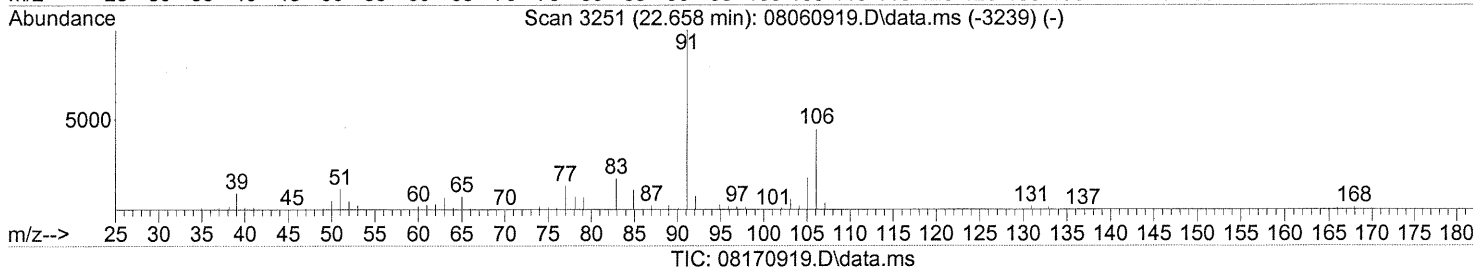
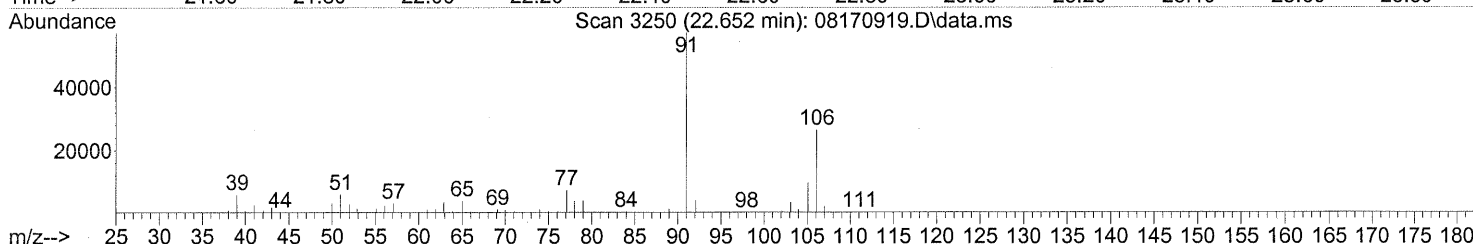
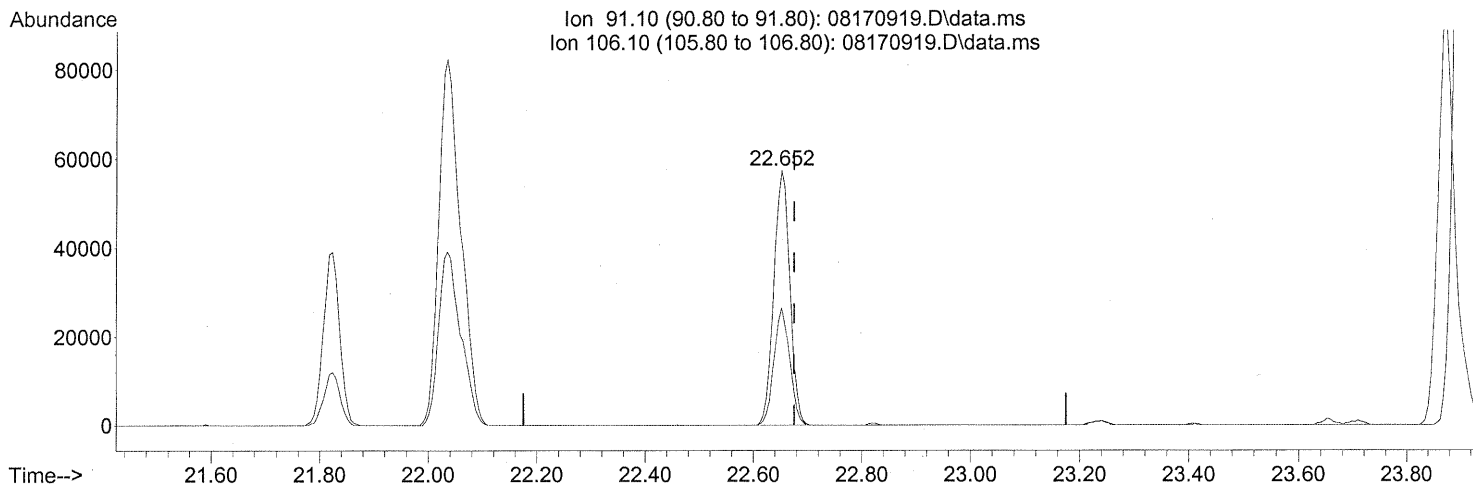
response 18493

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	48.15
103.00	46.20	47.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 2.79ng

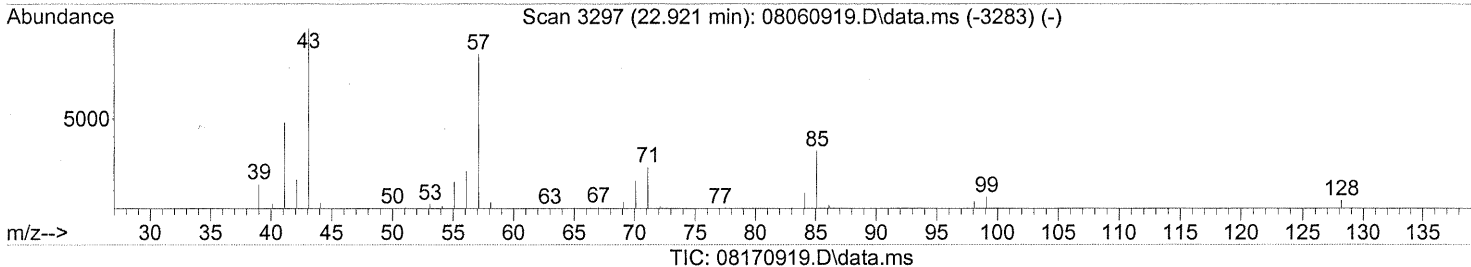
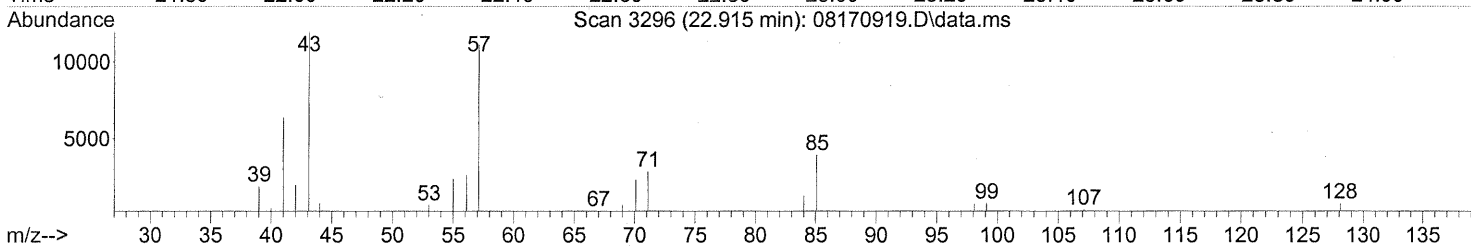
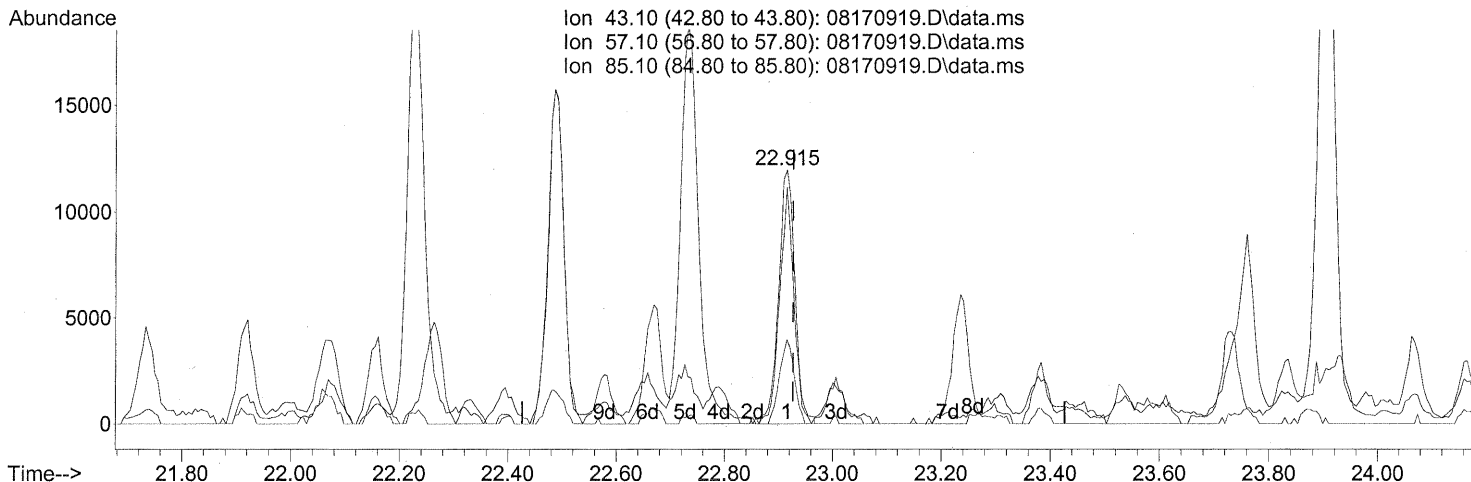
response 117863

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



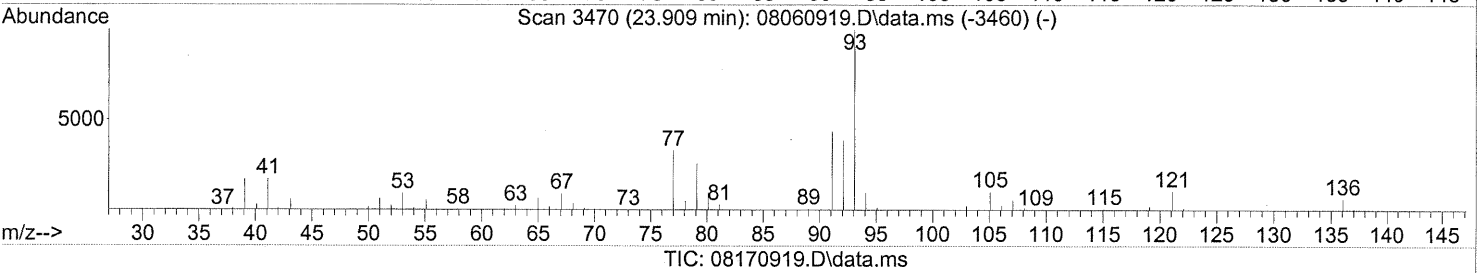
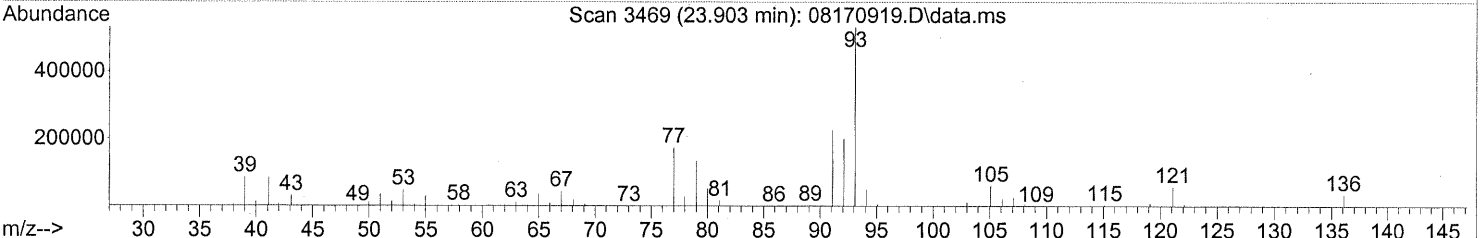
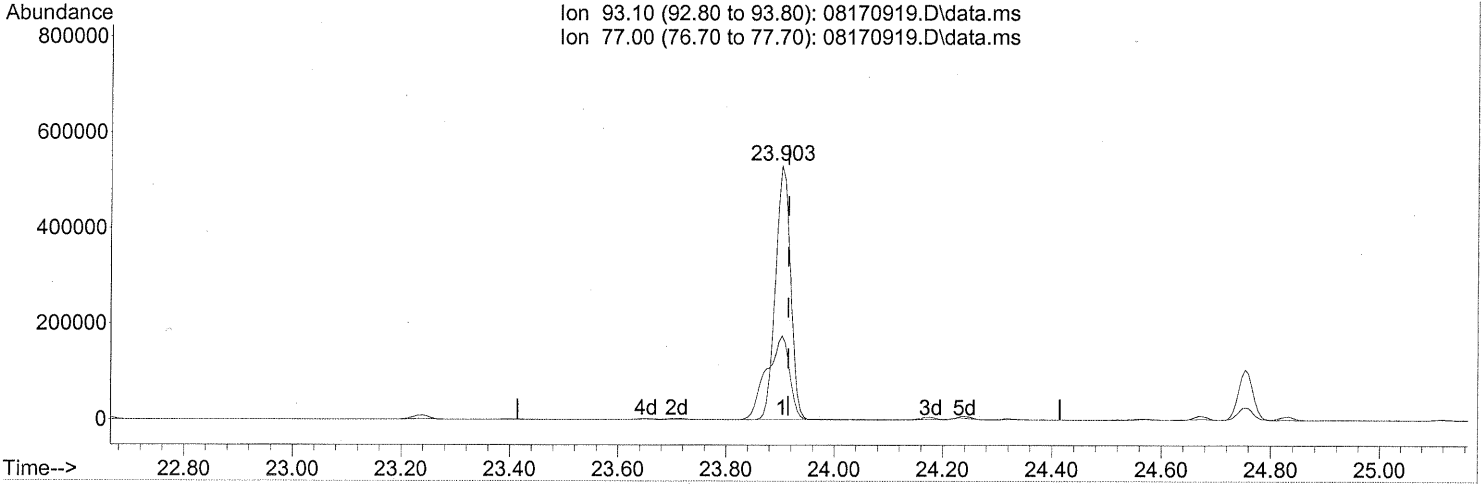
(71) n-Nonane (T)
 22.915min (-0.012) 0.89ng
 response 25043

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	81.02
85.10	30.40	30.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



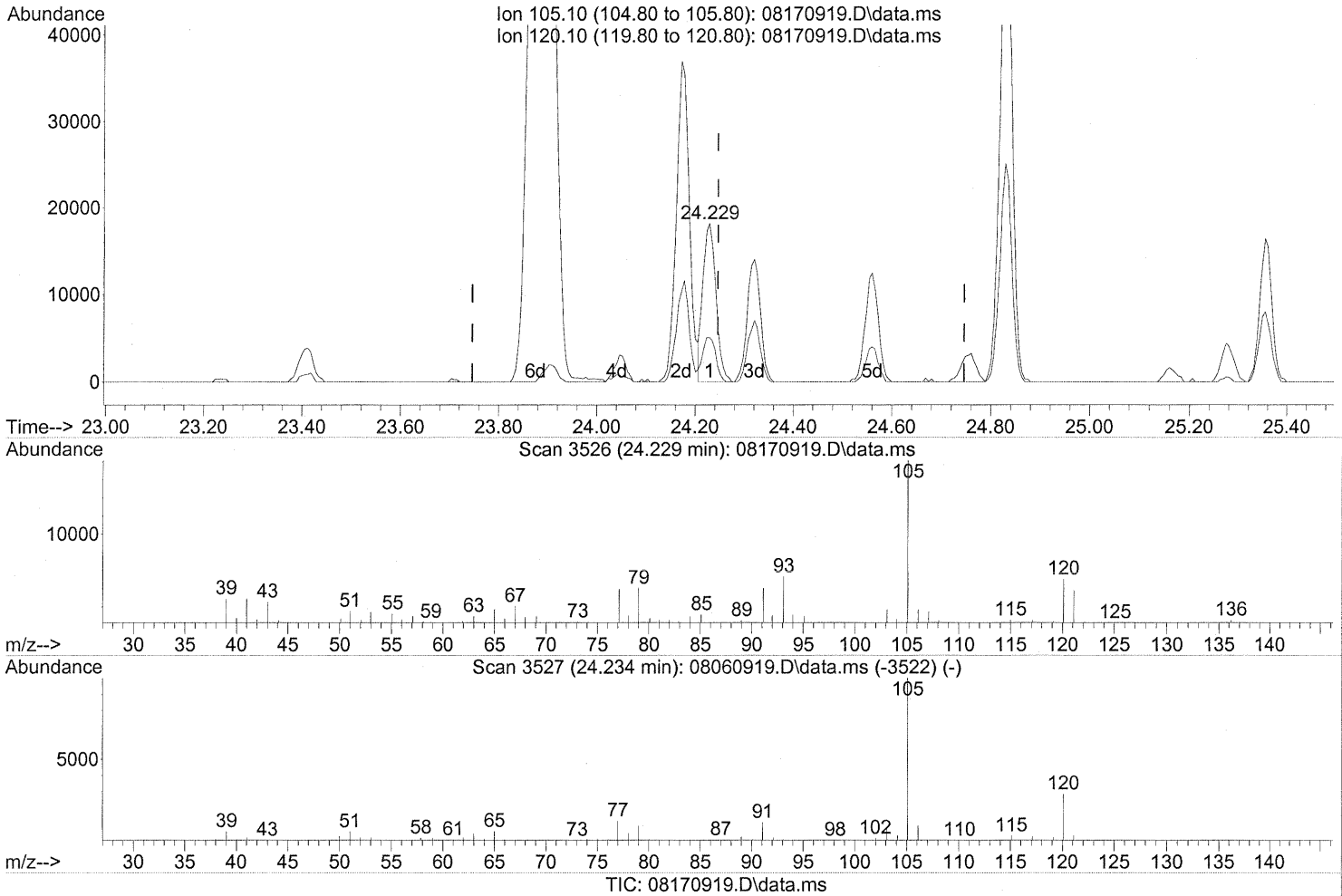
(75) alpha-Pinene (T)
 23.903min (-0.012) 37.40ng
 response 1023626

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	50.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



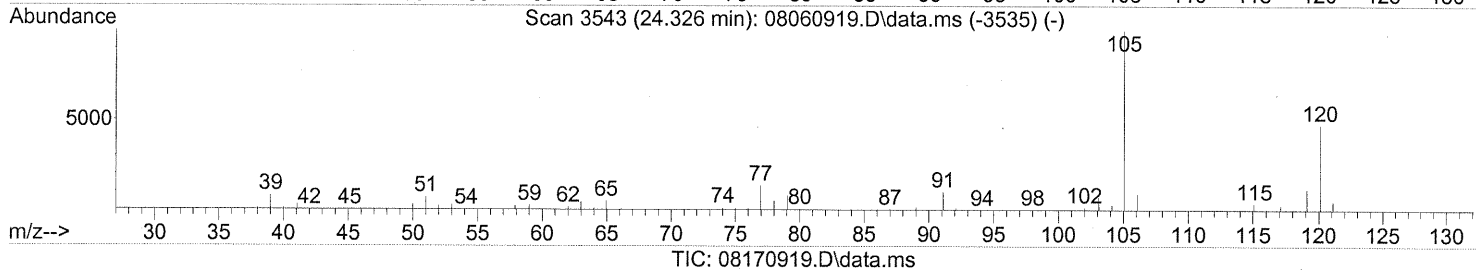
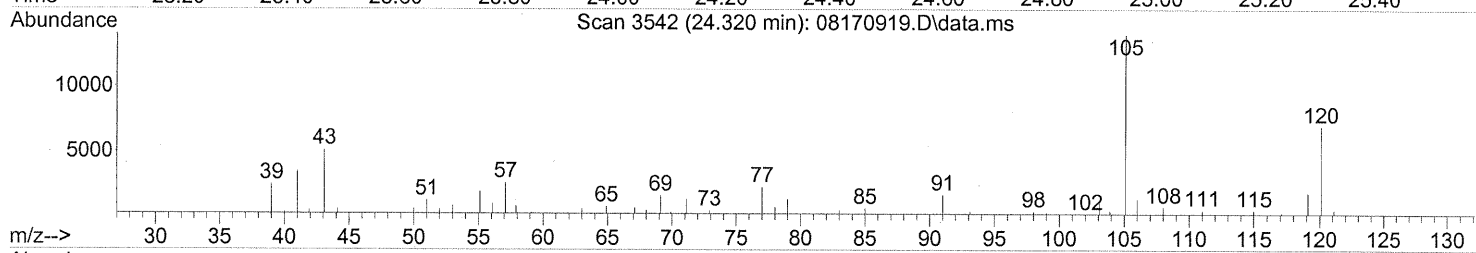
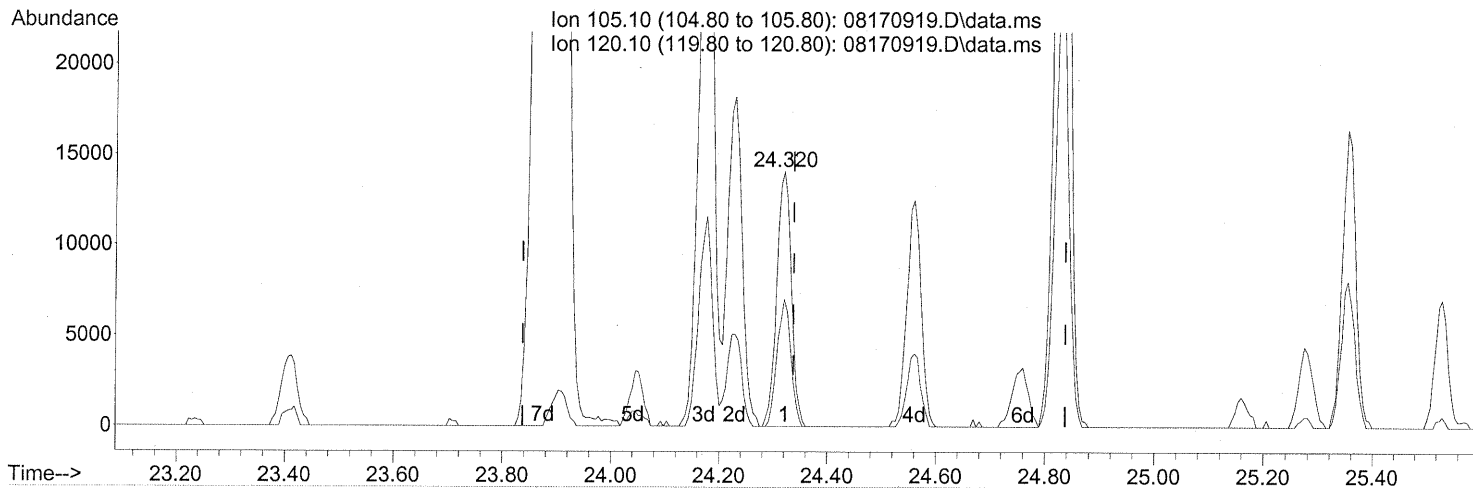
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 0.67ng
 response 33227

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	29.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.320min (-0.017) 0.63ng

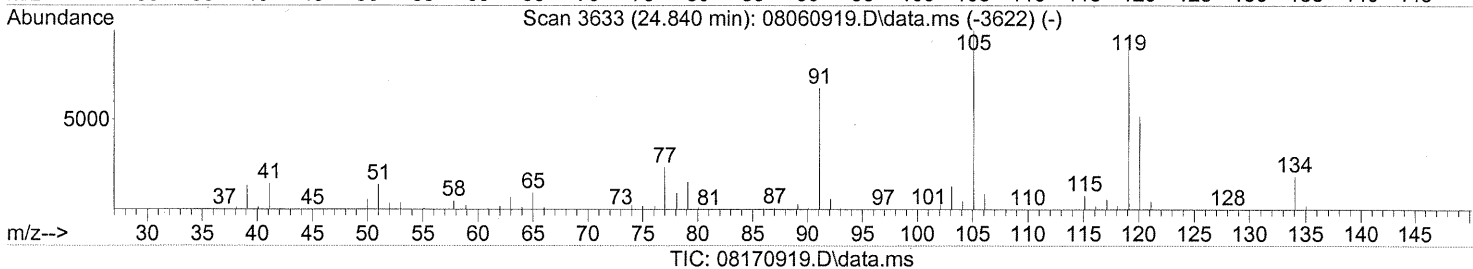
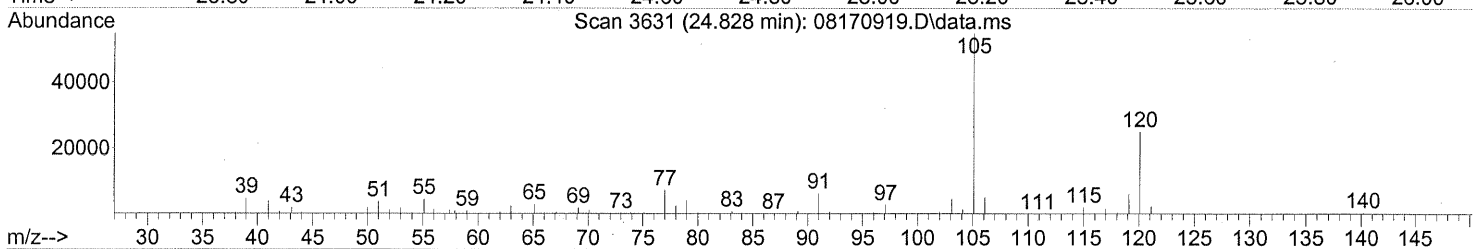
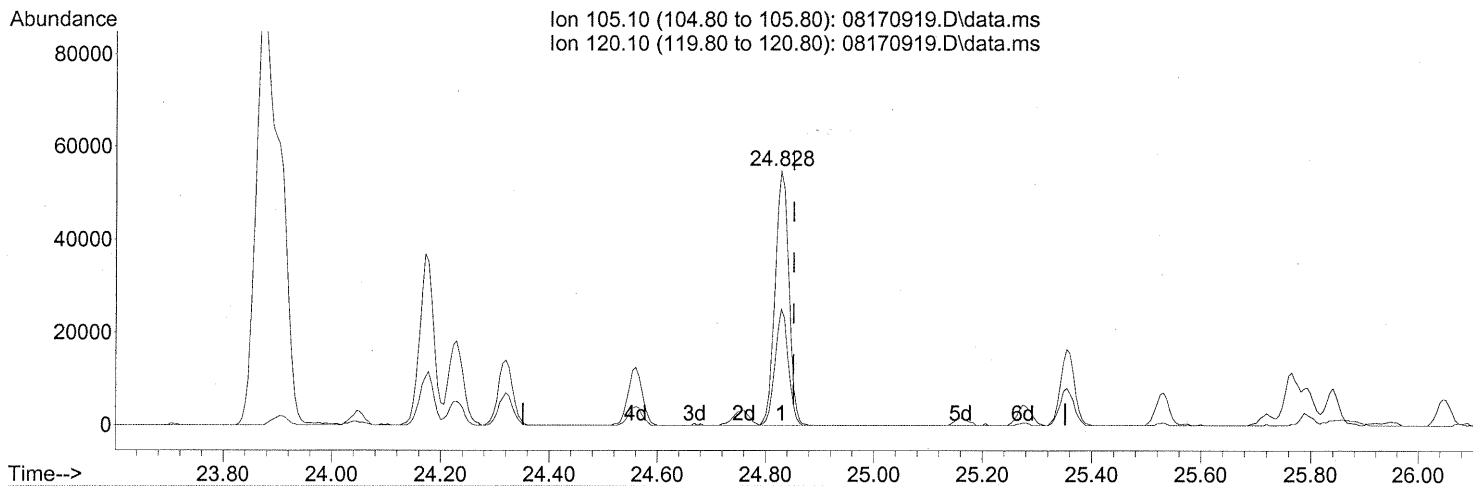
response 26345

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	47.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.828min (-0.023) 2.29ng

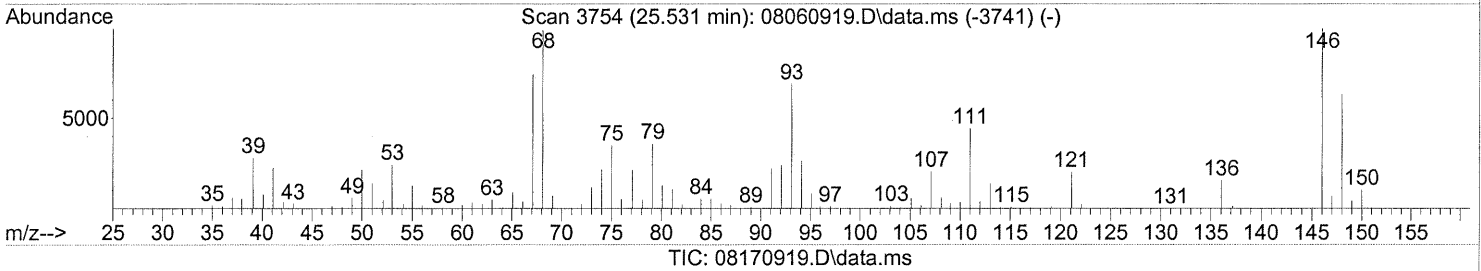
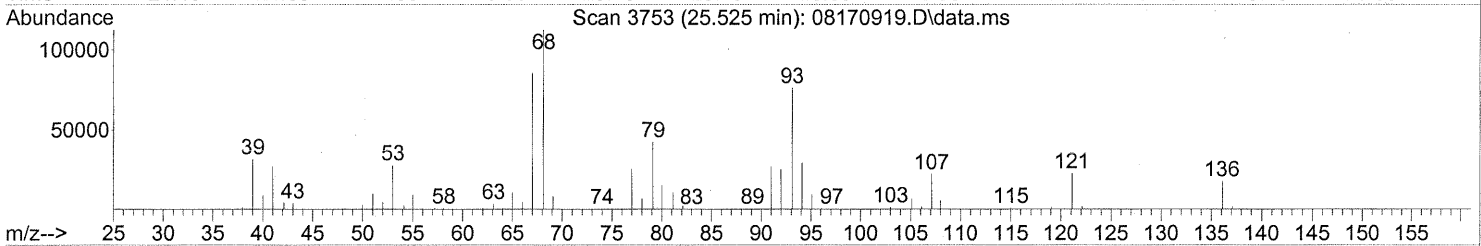
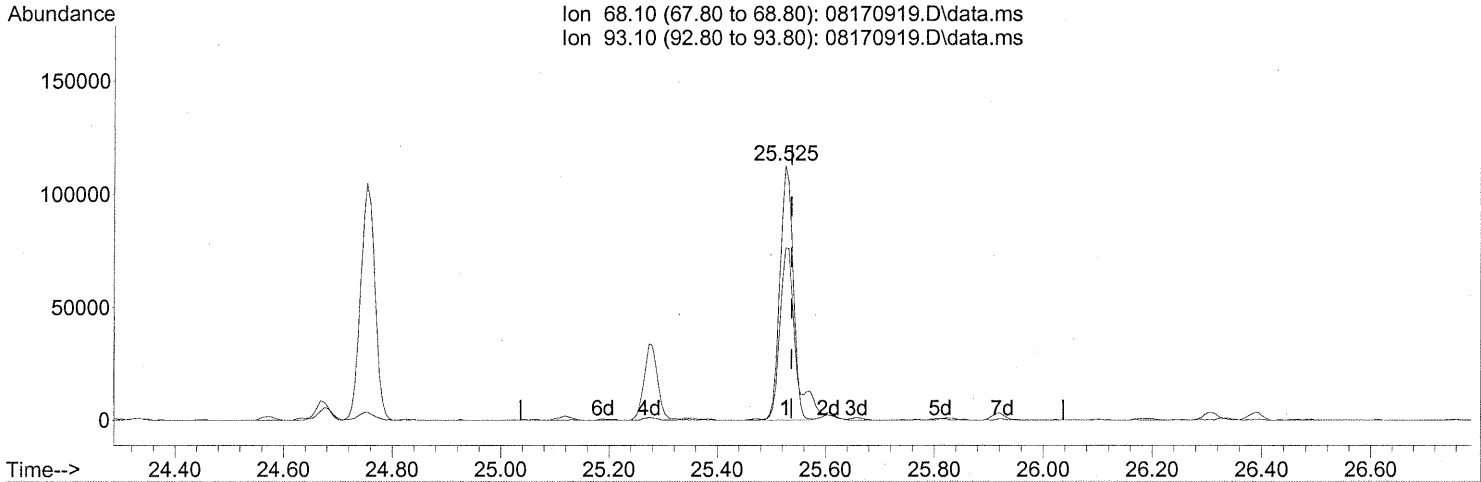
response 97363

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	43.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



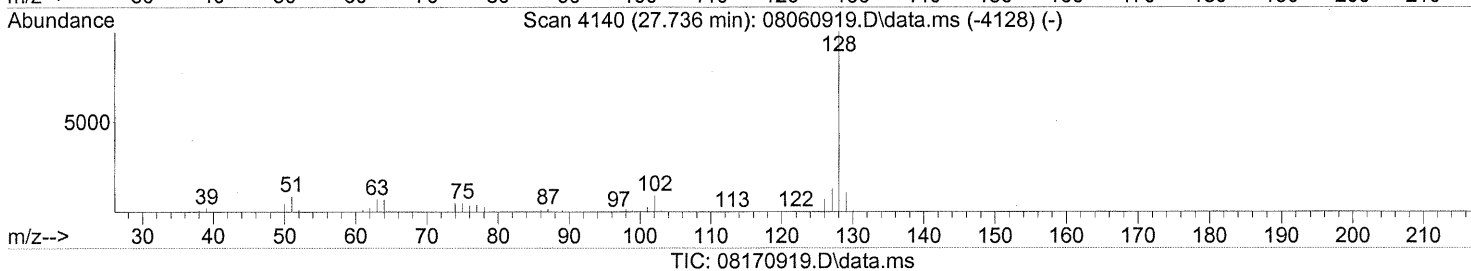
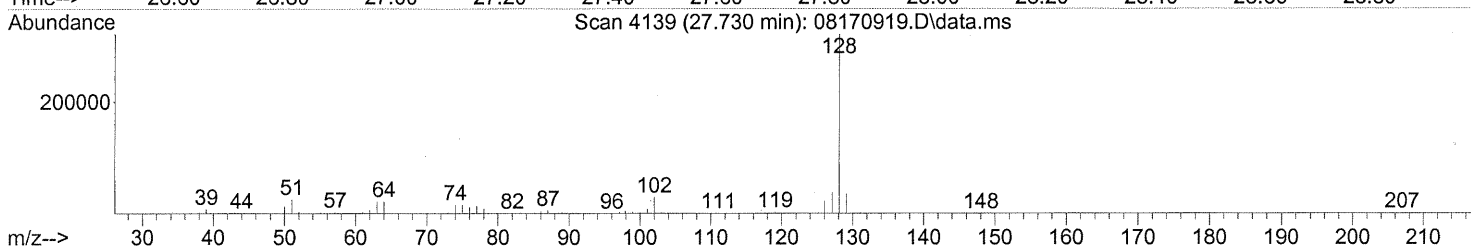
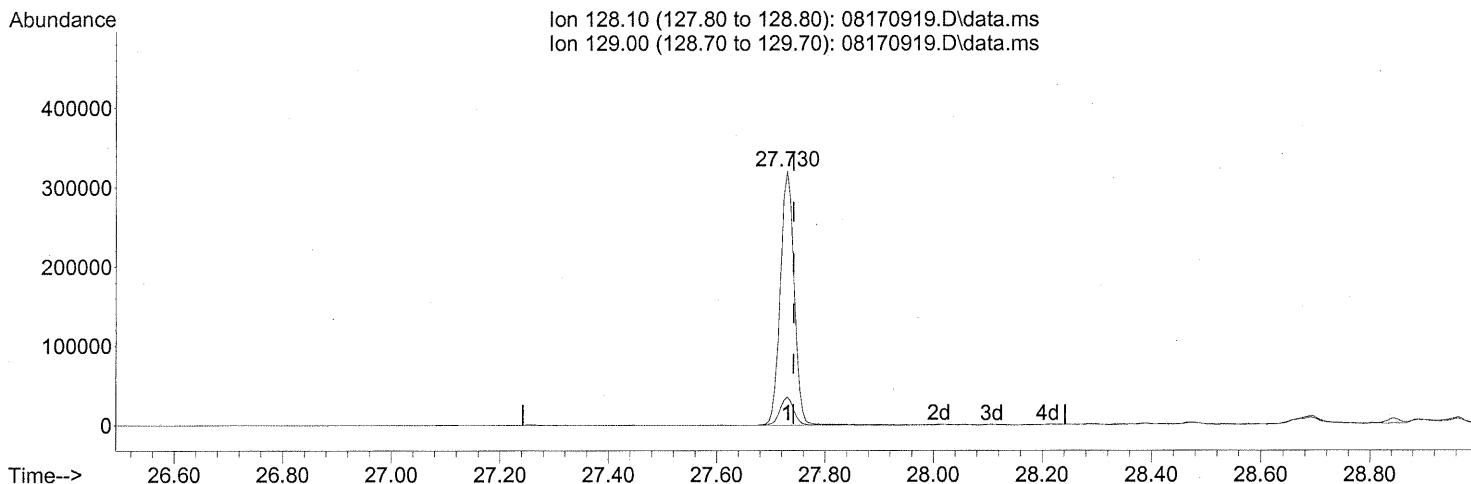
(91) d-Limonene (T)
 25.525min (-0.012) 10.57ng
 response 191164

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	83.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170919.D
 Acq On : 17 Aug 2009 17:59
 Operator : WA
 Sample : P0902721-001 dup (1000mL)
 Misc : Env. Health & Engineering 100214
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 17 20:14:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(95) Naphthalene (T)
 27.730min (-0.012) 9.89ng
 response 571538

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.81
0.00	0.00	0.00
0.00	0.00	0.00

INITIAL CALIBRATION STANDARDS

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethan										
2) T Propene	2.083	2.046	1.527	1.452	1.677	1.785	1.456	1.699	1.716	14.33
3) T Dichlorodifluorom	3.199	3.005	2.791	2.724	2.691	2.912	2.335	2.776	2.804	9.02
4) T Chloromethane	1.963	2.024	1.872	1.893	1.705	2.186	1.722	1.706	1.884	9.13
5) T 1,2-Dichloro-1,1,	1.177	1.316	1.196	1.051	1.039	1.184	0.985	1.166	1.139	9.39
6) T Vinyl Chloride	1.724	1.755	1.687	1.750	1.769	2.054	1.707	2.034	1.810	8.12
7) T 1,3-Butadiene	1.207	1.292	1.234	1.222	1.230	1.502	1.236	1.455	1.297	8.89
8) T Bromomethane	1.264	1.072	1.027	1.044	1.036	1.293	0.980	1.098	1.102	10.39
9) T Chloroethane	1.075	1.160	0.919	1.000	1.033	1.173	0.945	1.112	1.052	9.00
10) T Ethanol	1.345	1.232	1.028	1.032	0.995	1.126	0.909	1.031	1.087	12.94
11) T Acetonitrile	3.791	3.815	3.200	2.940	2.879	3.247	2.591	3.014	3.185	13.55
12) T Acrolein	0.735	0.915	0.767	0.793	0.825	0.940	0.758	0.890	0.828	9.42
13) T Acetone			1.167	1.074	1.016	1.100	0.854	0.946	1.026	11.02
14) T Trichlorofluorome	2.730	2.602	2.531	2.419	2.360	2.816	2.244	2.579	2.535	7.48
15) T 2-Propanol (Isopr	5.316	4.773	4.266	4.079	3.198	4.177	3.091	3.356	4.032	19.47
16) T Acrylonitrile	1.226	1.941	1.770	1.848	1.903	2.263	1.804	2.077	1.854	16.20
17) T 1,1-Dichloroethen	1.098	1.161	1.131	1.150	1.132	1.359	1.091	1.293	1.177	8.20
18) T 2-Methyl-2-Propan	4.615	4.098	3.719	3.708	3.575	4.214	3.280	1.423	3.579	26.97
19) T Methylene Chlorid	1.722	1.622	1.254	1.259	1.232	1.428	1.151	1.356	1.378	14.59
20) T 3-Chloro-1-propen	2.983	2.989	2.818	2.826	2.401	2.664	2.134	2.435	2.656	11.56
21) T Trichlorotrifluor	0.856	0.905	0.889	0.896	0.873	1.064	0.870	1.021	0.922	8.37
22) T Carbon Disulfide	5.485	5.227	4.603	4.594	4.557	5.329	4.218	4.851	4.858	9.16
23) T trans-1,2-Dichlor	1.848	2.189	1.929	2.047	2.041	2.440	1.938	2.230	2.083	9.32
24) T 1,1-Dichloroethan	2.670	2.757	2.264	2.426	2.360	2.850	2.271	2.607	2.526	8.94
25) T Methyl tert-Butyl	4.114	4.046	3.646	3.595	3.643	4.360	3.538	4.115	3.882	8.02
26) T Vinyl Acetate	0.230	0.243	0.237	0.239	0.177	0.222	0.165	0.156	0.209	17.35
27) T 2-Butanone (MEK)	0.989	1.007	0.915	0.892	0.915	1.072	0.855	0.766	0.926	10.32
28) T cis-1,2-Dichloroe	1.913	1.980	1.790	1.854	1.890	2.244	1.789	2.049	1.939	7.84
29) T Diisopropyl Ether	1.013	1.376	1.212	1.246	1.214	1.425	1.129	1.303	1.240	10.65

851 (#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:25 2009

DA 8/6/09

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
30) T Ethyl Acetate	0.395	0.513	0.492	0.479	0.491	0.561	0.439	0.491	0.483	10.18
31) T n-Hexane	2.766	2.862	2.319	2.390	2.266	2.624	2.095	2.429	2.469	10.60
32) T Chloroform	2.301	2.230	2.080	2.148	2.129	2.436	1.910	2.154	2.174	7.16
33) S 1,2-Dichloroethan	2.180	2.200	2.208	2.191	2.172	2.156	2.144	2.133	2.173	1.24
34) T Tetrahydrofuran (1.393	1.027	0.901	0.860	1.025	0.804	0.903	0.903	0.988	19.90
35) T Ethyl tert-Butyl	1.747	1.639	1.589	1.578	1.501	1.752	1.405	1.621	1.604	7.26
36) T 1,2-Dichloroethan	2.106	2.083	1.937	1.868	1.850	2.232	1.788	2.028	1.986	7.62
37) IR 1,4-Difluorobenze	-----ISTD-----									
38) T 1,1,1-Trichloroet	0.493	0.438	0.396	0.402	0.392	0.469	0.380	0.422	0.424	9.47
39) T Isopropyl Acetate	0.199	0.203	0.176	0.176	0.176	0.207	0.163	0.183	0.185	8.43
40) T 1-Butanol	0.444	0.385	0.301	0.293	0.285	0.330	0.265	0.291	0.324	18.74
41) T Benzene	1.390	1.294	1.057	1.020	0.989	1.140	0.898	1.005	1.099	15.15
42) T Carbon Tetrachlor	0.346	0.351	0.327	0.329	0.336	0.408	0.329	0.377	0.350	8.13
43) T Cyclohexane	0.465	0.420	0.379	0.382	0.383	0.440	0.351	0.401	0.403	9.21
44) T tert-Amyl Methyl	0.924	0.905	0.814	0.799	0.775	0.901	0.707	0.778	0.825	9.32
45) T 1,2-Dichloropropa	0.283	0.286	0.260	0.268	0.261	0.313	0.251	0.286	0.276	7.20
46) T Bromodichlorometh	0.375	0.388	0.340	0.344	0.339	0.408	0.331	0.371	0.362	7.63
47) T Trichloroethene	0.255	0.248	0.231	0.233	0.233	0.283	0.230	0.270	0.248	8.13
48) T 1,4-Dioxane	0.211	0.210	0.217	0.202	0.205	0.235	0.190	0.211	0.210	6.08
49) T 2,2,4-Trimethylpe	1.459	1.421	1.232	1.243	1.233	1.428	1.112	1.229	1.295	9.62
50) T Methyl Methacryla	0.084	0.106	0.097	0.096	0.098	0.118	0.098	0.112	0.101	10.64
51) T n-Heptane	0.330	0.309	0.283	0.282	0.275	0.328	0.259	0.294	0.295	8.56
52) T cis-1,3-Dichlorop	0.492	0.469	0.422	0.433	0.431	0.517	0.421	0.476	0.458	7.87
53) T 4-Methyl-2-pentan	0.262	0.275	0.257	0.255	0.252	0.302	0.239	0.271	0.264	7.19
54) T trans-1,3-Dichlor	0.492	0.436	0.391	0.413	0.408	0.489	0.399	0.452	0.435	9.06
55) T 1,1,2-Trichloroet	0.248	0.251	0.226	0.234	0.227	0.270	0.220	0.254	0.241	7.12
56) IR Chlorobenzene-d5	-----ISTD-----									
57) S Toluene-d8 (SS2)	2.196	2.196	2.181	2.184	2.176	2.177	2.188	2.177	2.184	0.37

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(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:25 2009

5/6/09

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
58) T Toluene	2.598	2.282	2.011	2.028	1.956	2.323	1.860	2.115	2.147	11.21
59) T 2-Hexanone	1.631	1.475	1.347	1.365	1.367	1.586	1.255	1.396	1.428	8.91
60) T Dibromochlorometh	0.488	0.496	0.473	0.476	0.482	0.597	0.487	0.566	0.508	9.17
61) T 1,2-Dibromoethane	0.567	0.548	0.480	0.512	0.510	0.617	0.496	0.577	0.539	8.68
62) T n-Butyl Acetate	1.970	1.781	1.544	1.562	1.554	1.839	1.464	1.748	1.683	10.51
63) T n-Octane	0.560	0.571	0.505	0.499	0.491	0.570	0.450	0.506	0.519	8.42
64) T Tetrachloroethene	0.482	0.483	0.476	0.481	0.458	0.568	0.469	0.556	0.497	8.29
65) T Chlorobenzene	1.590	1.363	1.215	1.270	1.217	1.454	1.169	1.348	1.328	10.63
66) T Ethylbenzene	2.854	2.575	2.315	2.330	2.298	2.695	2.145	2.421	2.454	9.60
67) T m- & p-Xylenes	2.378	2.159	1.844	1.903	1.829	2.151	1.706	1.913	1.985	11.21
68) T Bromoform	0.336	0.384	0.393	0.381	0.411	0.521	0.432	0.516	0.422	15.56
69) T Styrene	1.591	1.461	1.301	1.326	1.336	1.629	1.314	1.522	1.435	9.31
70) T o-Xylene	2.315	2.130	1.894	1.892	1.861	2.164	1.722	1.945	1.990	9.78
71) T n-Nonane	1.652	1.463	1.265	1.289	1.228	1.399	1.084	1.200	1.323	13.39
72) T 1,1,2,2-Tetrachlo	0.950	0.931	0.839	0.860	0.839	0.977	0.776	0.894	0.883	7.62
73) S Bromofluorobenzen	0.571	0.566	0.563	0.563	0.577	0.579	0.594	0.595	0.576	2.23
74) T Cumene	3.046	2.701	2.336	2.364	2.307	2.723	2.181	2.456	2.514	11.39
75) T alpha-Pinene	1.405	1.389	1.184	1.219	1.220	1.431	1.152	1.311	1.289	8.49
76) T n-Propylbenzene	3.730	3.286	2.971	3.088	2.984	3.473	2.742	3.012	3.161	10.05
77) T 3-Ethyltoluene	2.856	2.585	2.264	2.204	2.239	2.593	2.105	2.377	2.403	10.55
78) T 4-Ethyltoluene	2.821	2.428	2.122	2.235	2.150	2.576	2.035	2.260	2.328	11.34
79) T 1,3,5-Trimethylbe	2.371	1.981	1.833	1.859	1.835	2.153	1.724	1.953	1.964	10.62
80) T alpha-Methylstyre	1.173	1.018	0.919	0.971	1.006	1.205	0.983	1.135	1.051	9.98
81) T 2-Ethyltoluene	2.866	2.524	2.246	2.299	2.267	2.666	2.132	2.386	2.423	10.14
82) T 1,2,4-Trimethylbe	2.204	2.160	1.885	1.969	1.896	2.217	1.758	1.932	2.003	8.49
83) T n-Decane	1.505	1.419	1.273	1.281	1.242	1.408	1.089	1.199	1.302	10.36
84) T Benzyl Chloride	1.924	1.912	1.669	1.773	1.834	2.197	1.749	1.959	1.877	8.66
85) T 1,3-Dichlorobenze	1.163	0.993	0.903	0.959	0.940	1.131	0.925	1.094	1.013	9.96
86) T 1,4-Dichlorobenze	1.251	1.103	0.995	0.996	0.980	1.192	0.979	1.149	1.081	9.99
87) T sec-Butylbenzene	3.139	2.866	2.554	2.575	2.546	2.985	2.364	2.613	2.705	9.71

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(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:26 2009

8/6/09

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
88) T 4-Isopropyltoluen	2.658	2.459	2.338	2.329	2.319	2.712	2.154	2.330	2.412	7.80
89) T 1,2,3-Trimethylbe	2.247	2.205	1.983	1.961	1.936	2.249	1.789	1.951	2.040	8.39
90) T 1,2-Dichlorobenze	1.053	0.935	0.895	0.923	0.908	1.091	0.885	0.997	0.961	8.06
91) T d-Limonene	0.947	0.884	0.819	0.808	0.816	0.953	0.756	0.831	0.852	8.22
92) T 1,2-Dibromo-3-Chl	0.255	0.322	0.281	0.316	0.334	0.407	0.333	0.395	0.330	15.52
93) T n-Undecane	1.637	1.515	1.310	1.387	1.321	1.489	1.157	1.266	1.385	11.15
94) T 1,2,4-Trichlorobe	0.633	0.617	0.569	0.628	0.635	0.782	0.647	0.775	0.661	11.53
95) T Naphthalene	3.212	2.782	2.370	2.515	2.600	3.038	2.466	2.774	2.720	10.71
96) T n-Dodecane	2.008	1.787	1.580	1.604	1.487	1.664	1.312	1.433	1.609	13.47
97) T Hexachlorobutadie	0.508	0.450	0.382	0.370	0.364	0.452	0.378	0.458	0.420	12.69
98) T Cyclohexanone	1.058	0.930	0.839	0.840	0.827	0.975	0.777	0.870	0.889	10.33
99) T tert-Butylbenzene	2.338	1.994	1.824	1.861	1.804	2.116	1.695	1.873	1.938	10.59
100) T n-Butylbenzene	2.495	2.246	2.121	2.16	2.160	2.504	1.975	2.174	2.231	8.20

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240912
20ng/L Std. ID: S20-07310903

200ng/L Std. ID: S20-07310901
Dilution Factors: 5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L): ICAL Points:	ICAL Concentrations (Primary Source)									
		200ng/L	20ng/L	4ng/L		4	4	20	20	20	200	200	200		
		0.025	0.05	0.025		0.050	0.25	0.125	0.25	0.50	0.1ng	0.2ng	0.5ng	1ng	5ng
Propene	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107			
Dichlorodifluoromethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105			
Chloromethane	1.00	200	20.0	4.00	0.100	0.200	0.500	1.00	5.00	25.0	50.0	100			
Freon-114	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106			
Vinyl Chloride	1.01	202	20.2	4.04	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101			
1,3-Butadiene	1.20	240	24.0	4.80	0.120	0.240	0.600	1.20	6.00	30.0	60.0	120			
Bromomethane	1.02	204	20.4	4.08	0.102	0.204	0.510	1.02	5.10	25.5	51.0	102			
Chloroethane	1.01	202	20.2	4.04	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101			
Ethanol	5.20	1040	104	20.8	0.520	1.040	2.60	5.20	26.0	130	260	520			
Acetonitrile	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105			
Acrolein	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108			
Acetone	5.50	1100	110	22.0	0.550	1.100	2.75	5.50	27.5	138	275	550			
Trichlorofluoromethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105			
Isopropanol	1.89	378	37.8	7.56	0.189	0.378	0.945	1.89	9.45	47.3	94.5	189			
Acrylonitrile	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106			
1,1-Dichloroethene	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110			
tert-Butanol	2.02	404	40.4	8.08	0.202	0.404	1.01	2.02	10.1	50.5	101	202			
Methylene Chloride	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107			
Allyl Chloride	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108			
Trichlorotrifluoroethane	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110			
Carbon Disulfide	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107			
trans-1,2-Dichloroethene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106			
1,1-Dichloroethane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106			
Methyl tert-Butyl Ether	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109			
Vinyl Acetate	5.02	1004	100	20.1	0.502	1.004	2.51	5.02	25.1	126	251	502			
2-Butanone	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110			
cis-1,2-Dichloroethene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109			
Diisopropyl Ether	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107			
Ethyl Acetate	2.13	426	42.6	8.52	0.213	0.426	1.07	2.13	10.7	53.3	107	213			
n-Hexane	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109			
Chloroform	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107			
Tetrahydrofuran	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110			
Ethyl tert-Butyl Ether	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103			
1,2-Dichloroethane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106			
1,1,1-Trichloroethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105			
Isopropyl Acetate	2.09	418	41.8	8.36	0.209	0.418	1.05	2.09	10.5	52.3	105	209			
1-Butanol	2.07	414	41.4	8.28	0.207	0.414	1.04	2.07	10.4	51.8	104	207			
Benzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106			
Carbon Tetrachloride	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108			
Cyclohexane	2.15	430	43.0	8.60	0.215	0.430	1.08	2.15	10.8	53.8	108	215			
tert-Amyl Methyl Ether	1.04	208	20.8	4.16	0.104	0.208	0.520	1.04	5.20	26.0	52.0	104			
1,2-Dichloropropane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105			
Bromodichloromethane	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108			
Trichloroethene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106			
1,4-Dioxane	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107			
Isooctane	1.04	208	20.8	4.16	0.104	0.208	0.520	1.04	5.20	26.0	52.0	104			
Methyl Methacrylate	2.13	426	42.6	8.52	0.213	0.426	1.07	2.13	10.7	53.3	107	213			
n-Heptane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106			
cis-1,3-Dichloropropene	0.99	198	19.8	3.96	0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0			
4-Methyl-2-pentanone	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110			
trans-1,3-Dichloropropene	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110			
1,1,2-Trichloroethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105			
Toluene	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108			
2-Hexanone	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110			
Dibromochloromethane	1.15	230	23.0	4.60	0.115	0.230	0.575	1.15	5.75	28.8	57.5	115			
1,2-Dibromoethane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106			
n-Butyl Acetate	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110			
n-Octane	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107			
Tetrachloroethene	1.02	204	20.4	4.08	0.102	0.204	0.510	1.02	5.10	25.5	51.0	102			
Chlorobenzene	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108			
Ethylbenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106			
m-&p-Xylene	2.08	416	41.6	8.32	0.208	0.416	1.04	2.08	10.4	52.0	104	208			

DA 8/11/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240912
20ng/L Std. ID:

200ng/L Std. ID:
Dilution Factors: 5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L): ICAL Points:	ICAL Concentrations (Primary Source)							
		200ng/L	20ng/L	4ng/L		4	4	20	20	20	200	200	200
		0.025	0.050	0.025		0.05	0.25	0.125	0.25	0.50			
Bromoform	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103	
Styrene	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
o-Xylene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
n-Nonane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
1,1,2,2-Tetrachloroethane	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
Cumene	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103	
alpha-Pinene	1.01	202	20.2	4.04	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101	
n-Propylbenzene	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103	
3-Ethyltoluene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
4-Ethyltoluene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
1,3,5-Trimethylbenzene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
alpha-Methylstyrene	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
2-Ethyltoluene	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105	
1,2,4-Trimethylbenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
n-Decane	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108	
Benzyl Chloride	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
1,3-Dichlorobenzene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
1,4-Dichlorobenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
sec-Butylbenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
p-Isopropyltoluene	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103	
1,2,3-Trimethylbenzene	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
1,2-Dichlorobenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
d-Limonene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
chloropropane	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
n-Undecane	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
1,2,4-Trichlorobenzene	1.12	224	22.4	4.48	0.112	0.224	0.560	1.12	5.60	28.0	56.0	112	
Naphthalene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
n-Dodecane	0.99	198	19.8	3.96	0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0	
Hexachloro-1,3-butadiene	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
Methacrylonitrile	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
Cyclohexanone	0.98	196	19.6	3.92	0.098	0.196	0.490	0.980	4.90	24.5	49.0	98.0	
tert-Butylbenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
n-Butylbenzene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	

*Enter information in the Solid Shaded Areas ONLY.

DA 8/11/09

Calibration Status Report GCMS13

Method Path : J:\MS13\METHODS\
 Method File : R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS13\DATA\2009_08\06\08060914.D
2	0.2	0	25	J:\MS13\DATA\2009_08\06\08060915.D
3	0.5	1	25	J:\MS13\DATA\2009_08\06\08060916.D
4	1.0	1	25	J:\MS13\DATA\2009_08\06\08060917.D
5	5.0	5	25	J:\MS13\DATA\2009_08\06\08060918.D
6	25	27	25	J:\MS13\DATA\2009_08\06\08060919.D
7	50	54	25	J:\MS13\DATA\2009_08\06\08060920.D
8	100	107	25	J:\MS13\DATA\2009_08\06\08060921.D

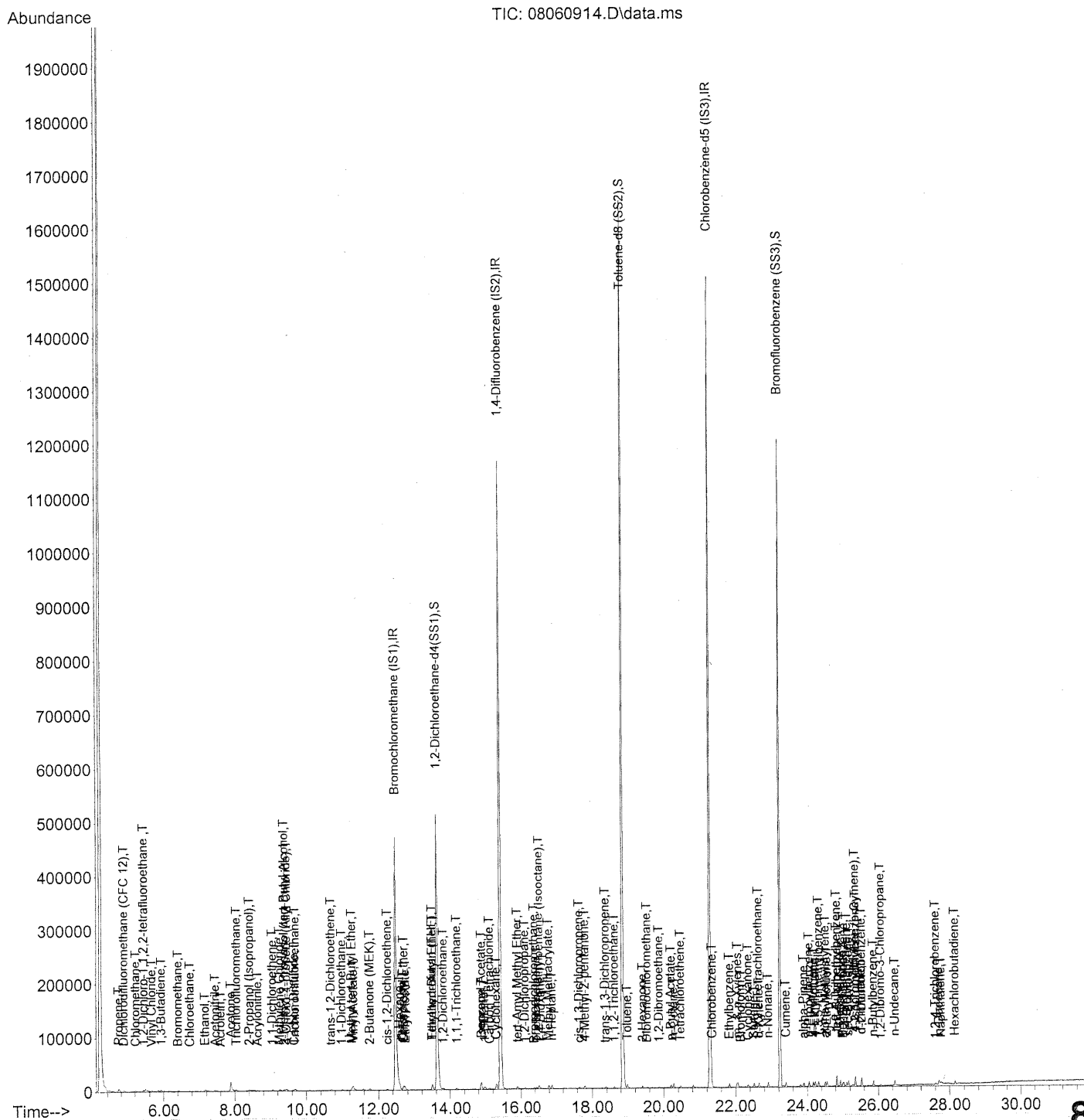
#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 06 17:09 2009	Aug 06 13:44 2009	06 Aug 2009 11:55
2	0.2	Aug 06 17:10 2009	Aug 06 13:51 2009	06 Aug 2009 12:36
3	0.5	Aug 06 17:10 2009	Aug 06 13:52 2009	06 Aug 2009 13:17
4	1.0	Aug 06 17:10 2009	Aug 06 14:32 2009	06 Aug 2009 13:57
5	5.0	Aug 06 17:10 2009	Aug 06 15:06 2009	06 Aug 2009 14:38
6	25	Aug 06 17:11 2009	Aug 06 16:11 2009	06 Aug 2009 15:18
7	50	Aug 06 17:13 2009	Aug 06 17:00 2009	06 Aug 2009 15:59
8	100	Aug 06 17:14 2009	Aug 06 17:08 2009	06 Aug 2009 16:39

R13080609.M Thu Aug 06 17:33:51 2009

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	255549	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.42	114	1302832	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	644252	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4(...)	13.63	65	557049	23.882	ng	0.00
Spiked Amount				25.000		
				Recovery	=	95.52%
57) Toluene-d8 (SS2)	18.85	98	1414545	25.331	ng	0.00
Spiked Amount				25.000		
				Recovery	=	101.32%
73) Bromofluorobenzene (SS3)	23.24	174	367818	25.794	ng	0.00
Spiked Amount				25.000		
				Recovery	=	103.16%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	2278m	0.115	ng	
3) Dichlorodifluoromethan...	4.88	85	3433	0.104	ng	# 94
4) Chloromethane	5.22	50	2007	0.097	ng	65
5) 1,2-Dichloro-1,1,2,2-t...	5.44	135	1275	0.099	ng	# 57
6) Vinyl Chloride	5.66	62	1780	0.088	ng	74
7) 1,3-Butadiene	5.93	54	1480	0.102	ng	# 57
8) Bromomethane	6.41	94	1318	0.141	ng	87
9) Chloroethane	6.74	64	1110	0.099	ng	# 41
10) Ethanol	7.16	45	7147	0.588	ng	69
11) Acetonitrile	7.45	41	4069	0.095	ng	91
12) Acrolein	7.61	56	811	0.069	ng	# 31
13) Acetone	7.89	58	11564	0.833	ng	96
14) Trichlorofluoromethane	8.05	101	2930	0.103	ng	93
15) 2-Propanol (Isopropanol)	8.41	45	10270	0.224	ng	74
16) Acrylonitrile	8.64	53	1328m	0.066	ng	
17) 1,1-Dichloroethene	9.05	96	1235	0.096	ng	87
18) 2-Methyl-2-Propanol (t...	9.38	59	9529	0.242	ng	# 74
19) Methylene Chloride	9.25	84	1883	0.126	ng	97
20) 3-Chloro-1-propene (Al...	9.45	41	3293m	0.136	ng	
21) Trichlorotrifluoroethane	9.69	151	962	0.092	ng	# 76
22) Carbon Disulfide	9.66	76	5999	0.117	ng	# 74
23) trans-1,2-Dichloroethene	10.68	61	2002	0.090	ng	97
24) 1,1-Dichloroethane	10.98	63	2893	0.104	ng	89
25) Methyl tert-Butyl Ether	11.26	73	4584	0.102	ng	94
26) Vinyl Acetate	11.31	86	1182	0.392	ng	# 1
27) 2-Butanone (MEK)	11.76	72	1112	0.111	ng	# 28
28) cis-1,2-Dichloroethene	12.25	61	2132	0.099	ng	90
29) Diisopropyl Ether	12.70	87	1108	0.091	ng	# 1
30) Ethyl Acetate	12.74	61	860	0.165	ng	# 73
31) n-Hexane	12.59	57	3082	0.112	ng	70

859

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	2517	0.100	ng	93
34) Tetrahydrofuran (THF)	13.49	72	2071	0.175	ng #	78
35) Ethyl tert-Butyl Ether	13.50	87	1839	0.099	ng #	87
36) 1,2-Dichloroethane	13.80	62	2282	0.103	ng #	62
38) 1,1,1-Trichloroethane	14.19	97	2700	0.112	ng	89
39) Isopropyl Acetate	14.88	61	2167	0.217	ng #	92
40) 1-Butanol	14.97	56	4795	0.282	ng #	79
41) Benzene	14.88	78	7680	0.120	ng	96
42) Carbon Tetrachloride	15.11	117	1945	0.096	ng	94
43) Cyclohexane	15.30	84	5207	0.231	ng	98
44) tert-Amyl Methyl Ether	15.91	73	5009	0.107	ng	91
45) 1,2-Dichloropropane	16.11	63	1549	0.100	ng	99
46) Bromodichloromethane	16.37	83	2109	0.107	ng	98
47) Trichloroethene	16.45	130	1409	0.106	ng	98
48) 1,4-Dioxane	16.57	88	1174	0.103	ng #	56
49) 2,2,4-Trimethylpentane...	16.52	57	7907	0.112	ng	98
50) Methyl Methacrylate	16.79	100	927	0.171	ng #	35
51) n-Heptane	16.89	71	1821	0.109	ng #	88
52) cis-1,3-Dichloropropene	17.66	75	2536	0.105	ng	86
53) 4-Methyl-2-pentanone	17.81	58	1504	0.104	ng	85
54) trans-1,3-Dichloropropene	18.36	75	2818	0.128	ng	86
55) 1,1,2-Trichloroethane	18.61	97	1358	0.101	ng	92
58) Toluene	18.98	91	7232	0.125	ng	97
59) 2-Hexanone	19.41	43	4623	0.119	ng	91
60) Dibromochloromethane	19.53	129	1445	0.107	ng	97
61) 1,2-Dibromoethane	19.87	107	1548	0.111	ng	98
62) n-Butyl Acetate	20.21	43	5583	0.127	ng	97
63) n-Octane	20.28	57	1545	0.106	ng	95
64) Tetrachloroethene	20.47	166	1267	0.096	ng	98
65) Chlorobenzene	21.35	112	4424	0.127	ng	91
66) Ethylbenzene	21.82	91	7796	0.119	ng	99
67) m- & p-Xylenes	22.06	91	12746	0.242	ng #	30
68) Bromoform	22.15	173	892	0.081	ng	95
69) Styrene	22.51	104	4388	0.119	ng	97
70) o-Xylene	22.66	91	6325	0.119	ng	98
71) n-Nonane	22.91	43	4513	0.122	ng	93
72) 1,1,2,2-Tetrachloroethane	22.64	83	2620	0.112	ng	100
74) Cumene	23.41	105	8086	0.125	ng	97
75) alpha-Pinene	23.91	93	3657	0.107	ng	94
76) n-Propylbenzene	24.05	91	9900	0.119	ng	97
77) 3-Ethyltoluene	24.18	105	8022	0.131	ng	93
78) 4-Ethyltoluene	24.23	105	7924	0.128	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	6660	0.126	ng	87

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

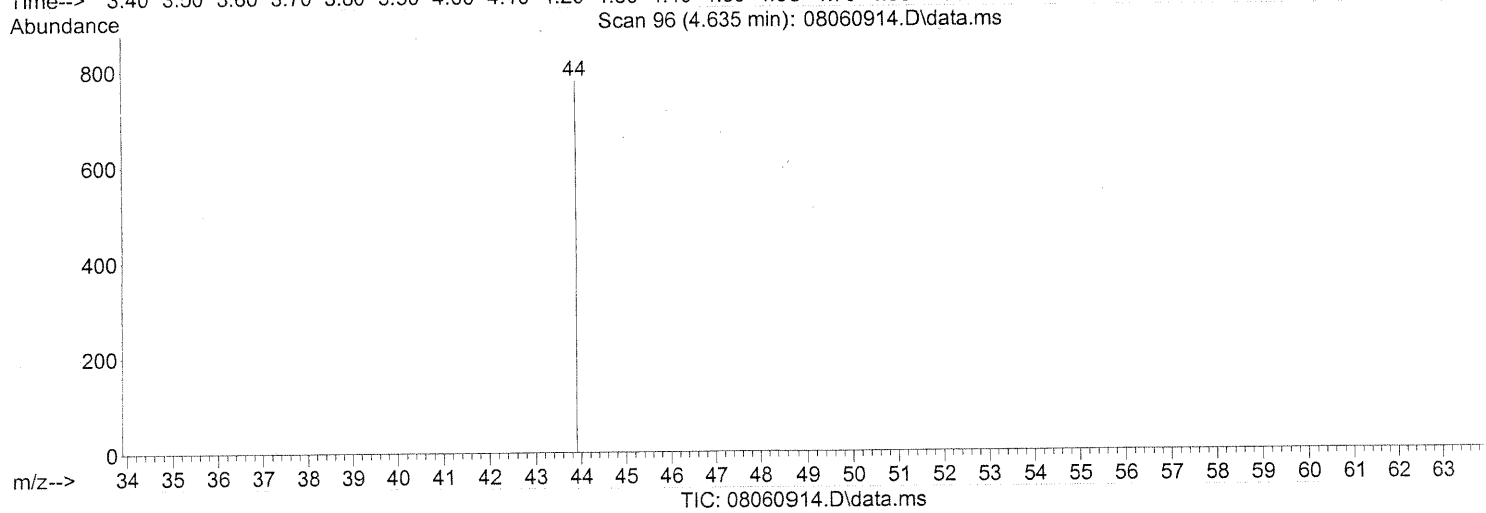
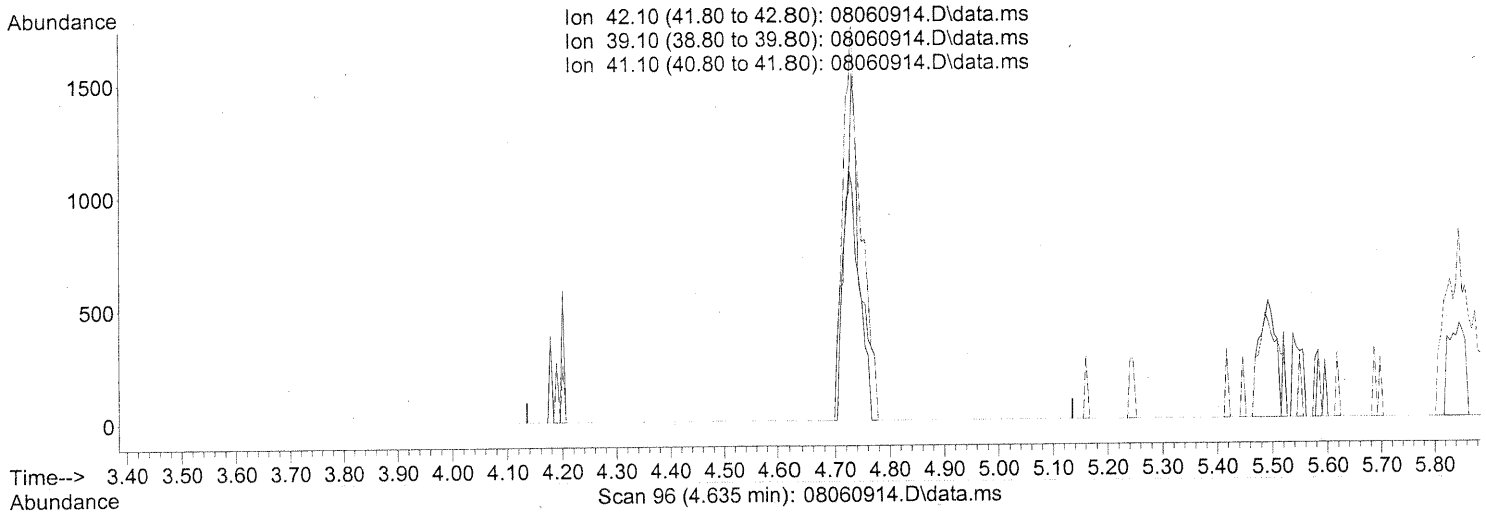
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	3235	0.121	ng	93
81) 2-Ethyltoluene	24.56	105	7755	0.121	ng	95
82) 1,2,4-Trimethylbenzene	24.83	105	6020	0.114	ng	98
83) n-Decane	24.93	57	4190	0.120	ng	96
84) Benzyl Chloride	25.01	91	5455	0.120	ng	96
85) 1,3-Dichlorobenzene	25.03	146	3266	0.129	ng	95
86) 1,4-Dichlorobenzene	25.11	146	3418	0.127	ng	96
87) sec-Butylbenzene	25.17	105	8575	0.121	ng	94
88) 4-Isopropyltoluene (p-...	25.35	119	7056	0.112	ng	94
89) 1,2,3-Trimethylbenzene	25.36	105	6195	0.115	ng	95
90) 1,2-Dichlorobenzene	25.53	146	2877	0.118	ng	94
91) d-Limonene	25.53	68	2659	0.116	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	724	0.093	ng	# 73
93) n-Undecane	26.46	57	4598	0.129	ng	92
94) 1,2,4-Trichlorobenzene	27.61	180	1826	0.118	ng	# 75
95) Naphthalene	27.77	128	8775	0.145	ng	72
96) n-Dodecane	27.71	57	5122m	0.135	ng	
97) Hexachlorobutadiene	28.15	225	1439	0.145	ng	94
98) Cyclohexanone	22.35	55	2671	0.101	ng	91
99) tert-Butylbenzene	24.83	119	6387	0.126	ng	92
100) n-Butylbenzene	25.86	91	7008	0.122	ng	96

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(2) Propene (T)

4.635min (-4.635) 0.00ng

response 0

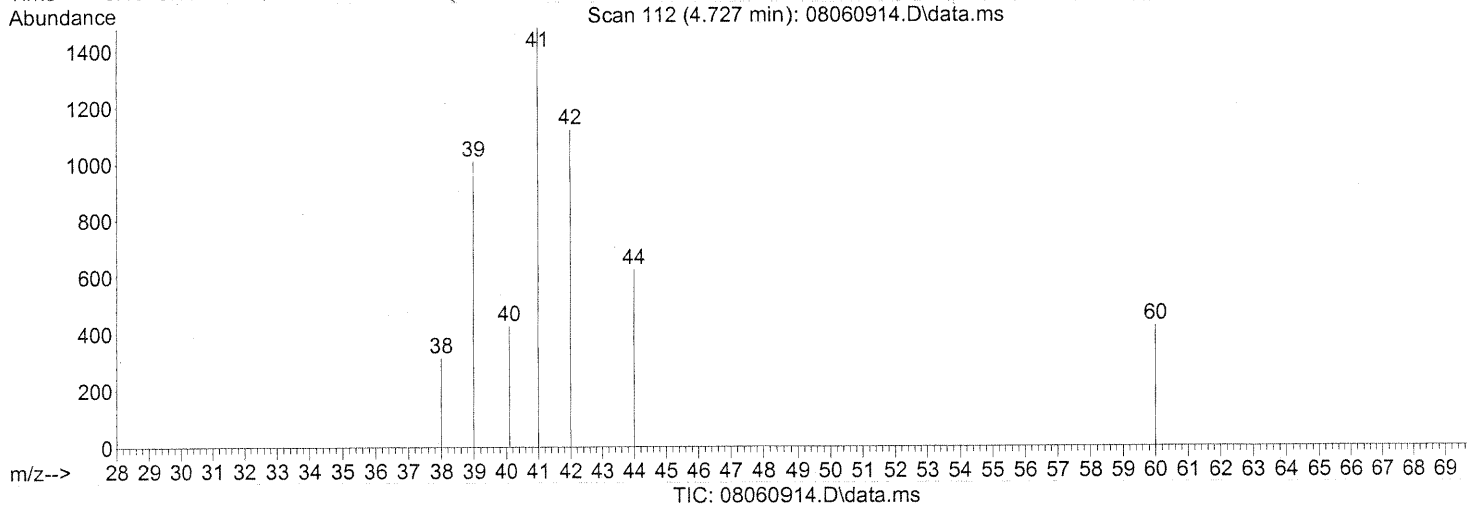
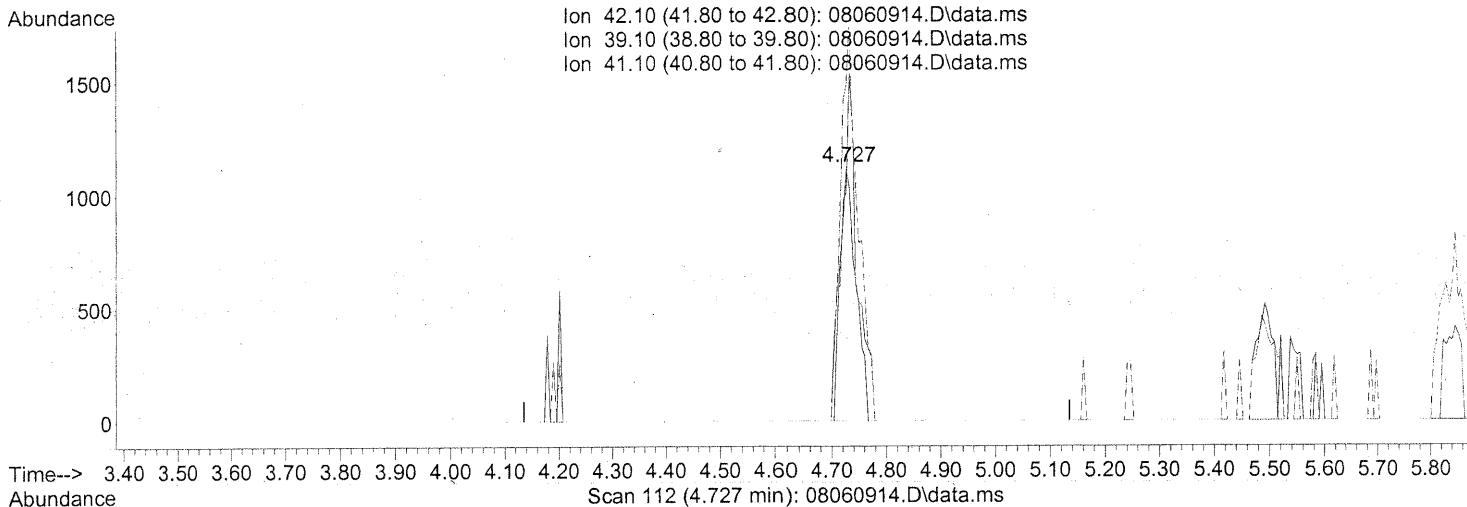
Ion	Exp%	Act%
42.10	100	0.00
39.10	111.90	0.00#
41.10	150.20	0.00#
0.00	0.00	0.00

MP

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(2) Propene (T)

4.727min (+0.092) 0.12ng m

response 2278

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	0.00#
41.10	150.20	0.00#
0.00	0.00	0.00

HP → IC

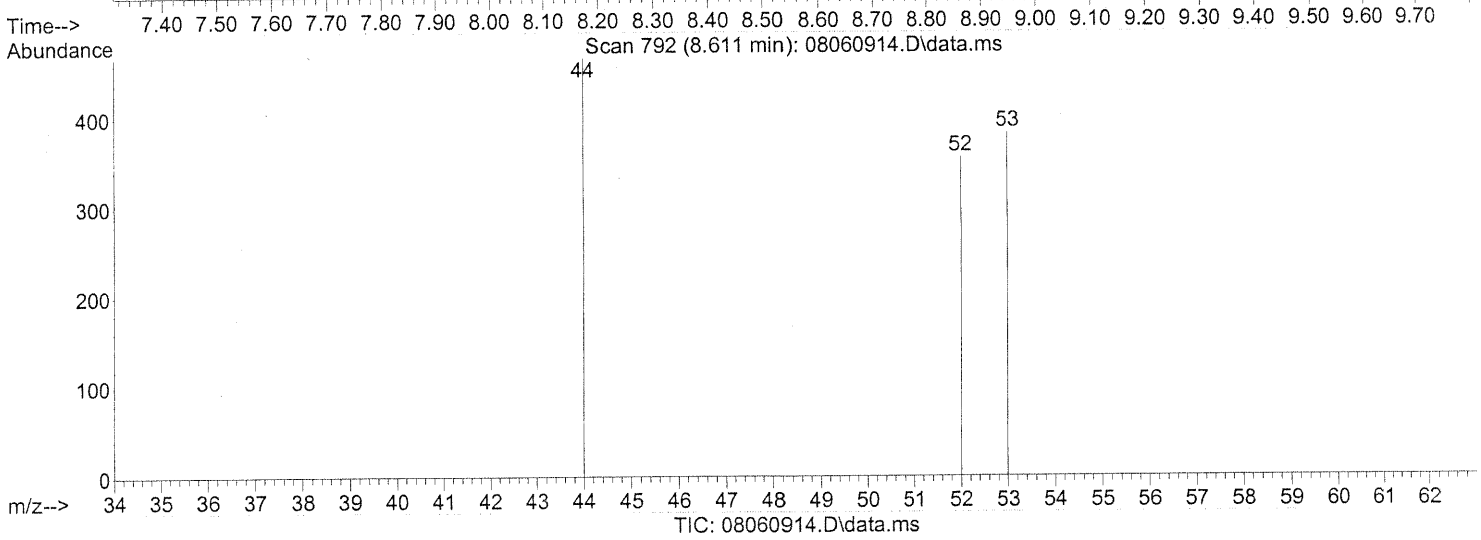
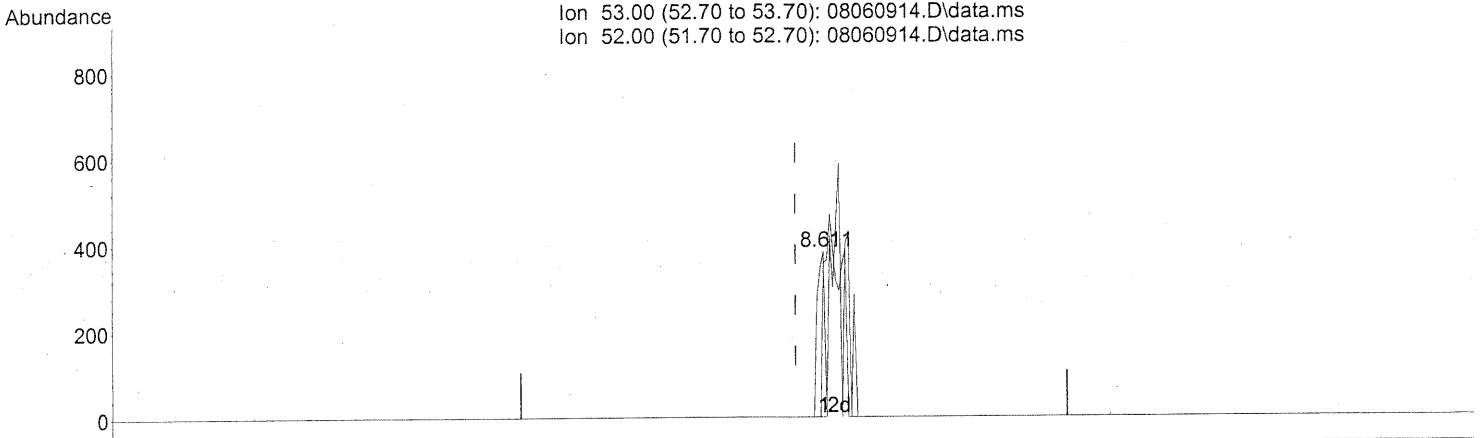
WA 8/16/09

WA 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.611min (+0.052) 0.02ng

response 347

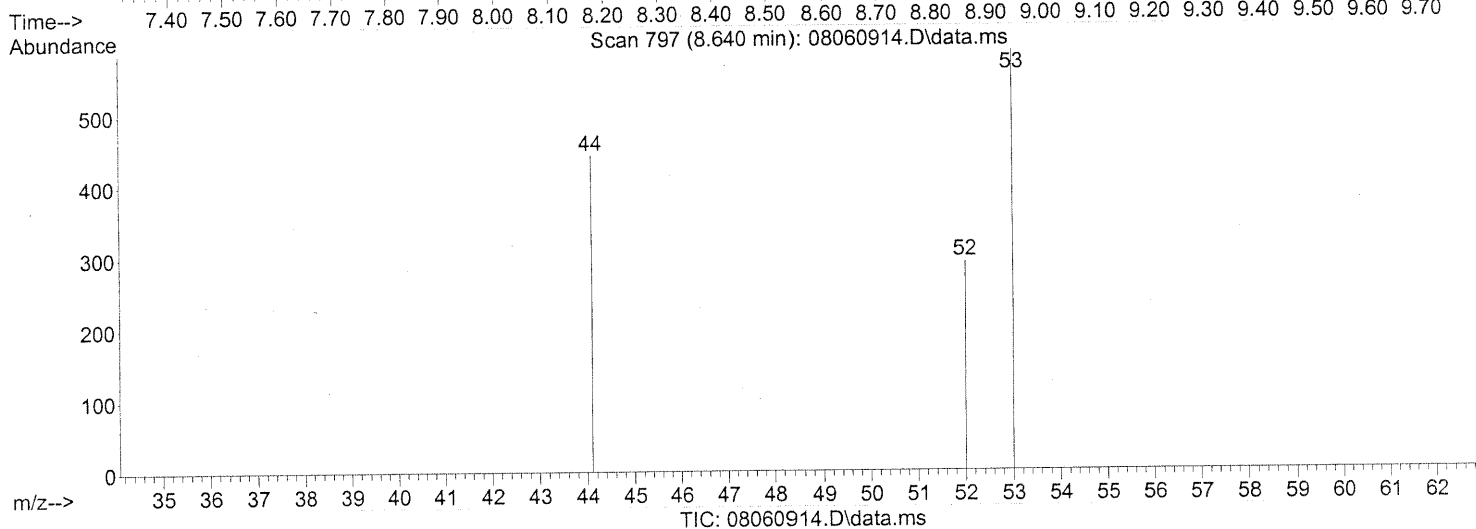
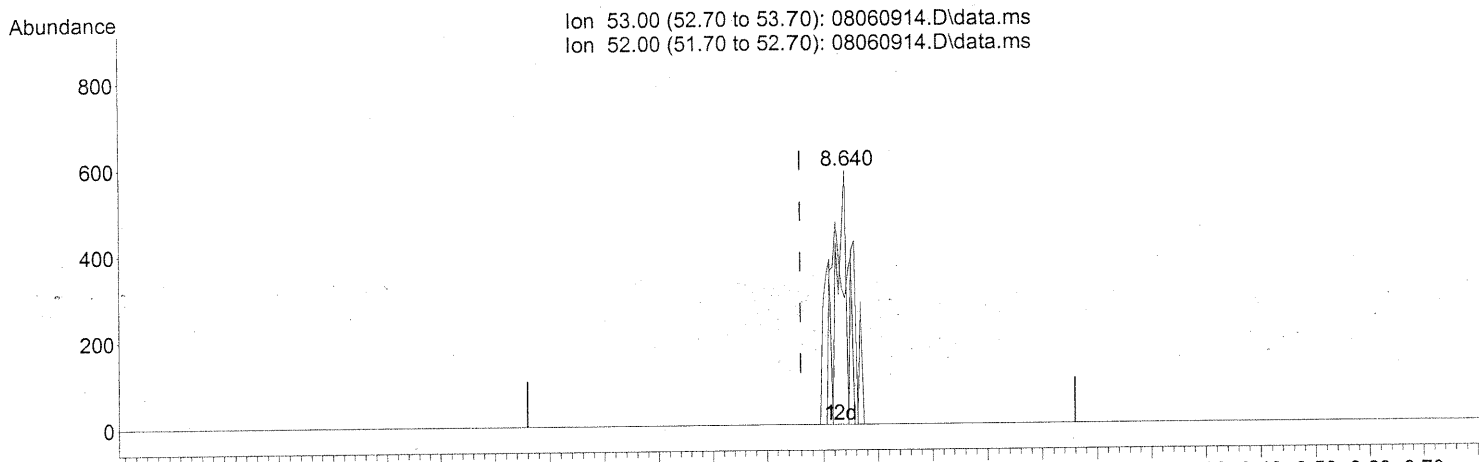
MP

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	289.91#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qual)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)

8.640min (+0.080) 0.07ng m

response 1328

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	75.75
0.00	0.00	0.00
0.00	0.00	0.00

HP → IC

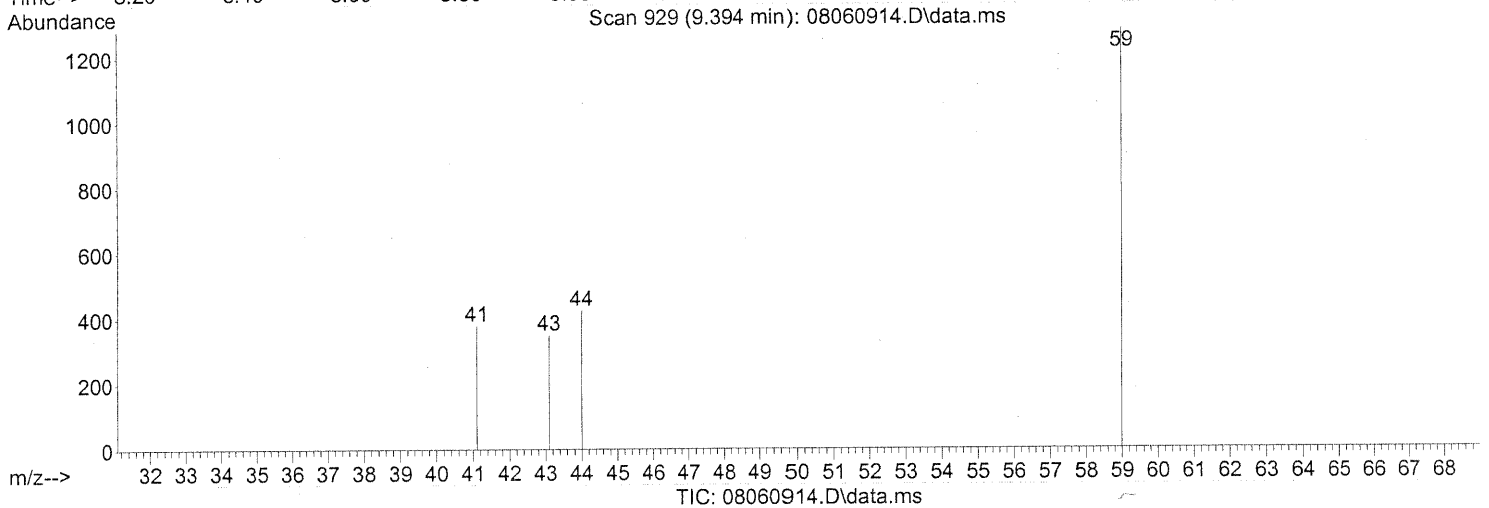
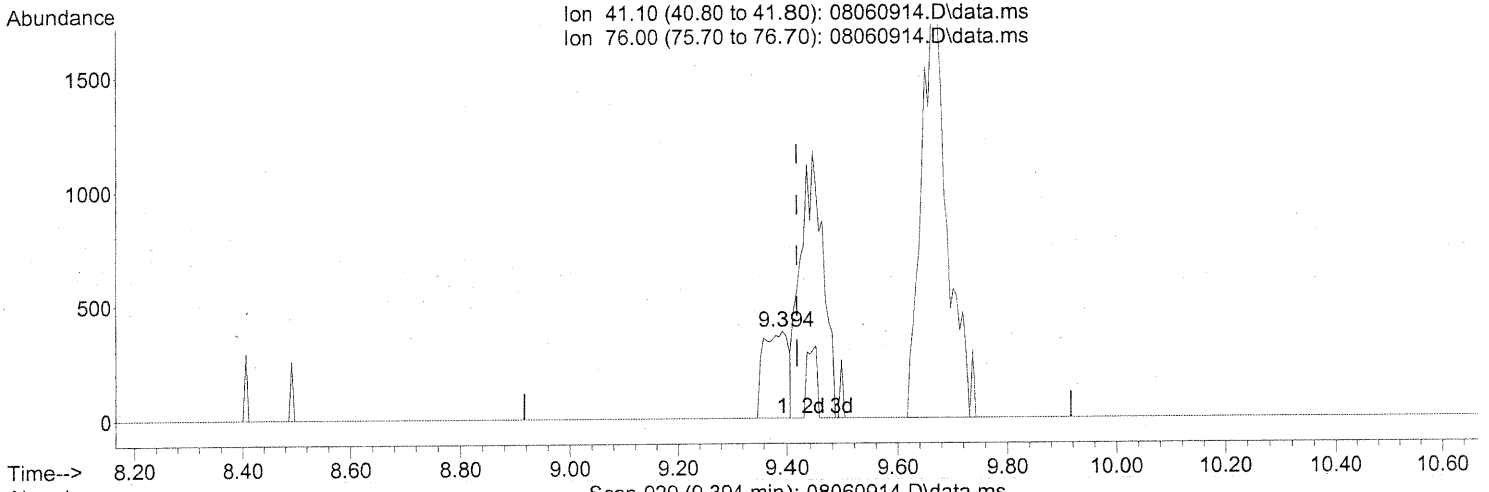
WA 8/6/09

WA 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.394min (-0.023) 0.05ng

response 1147

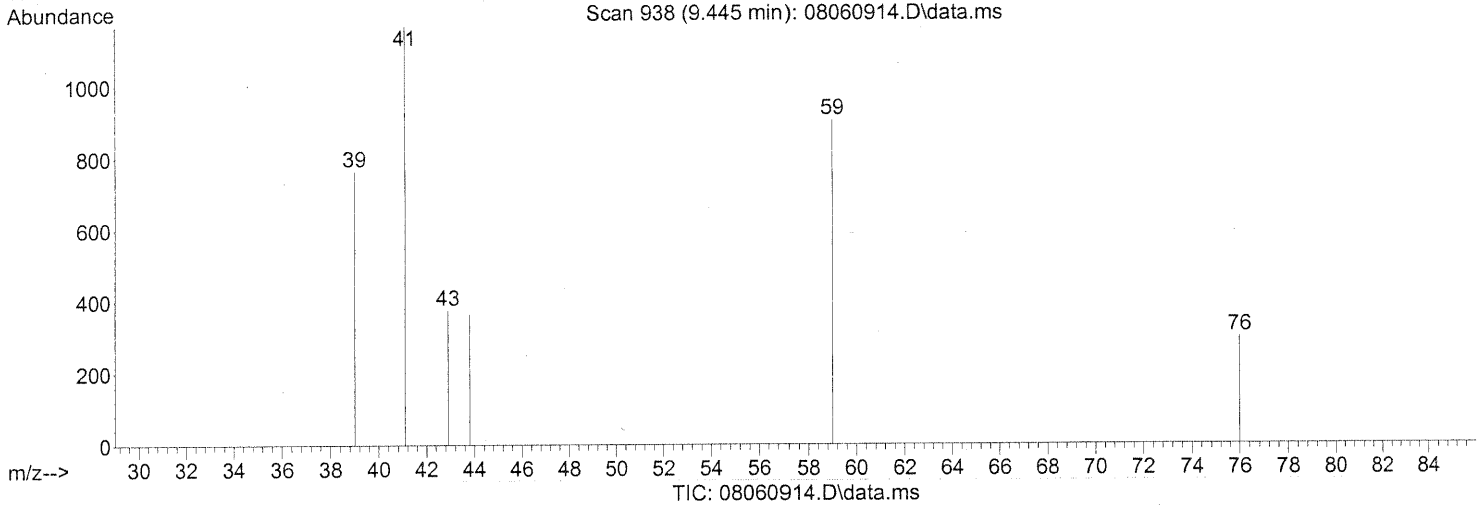
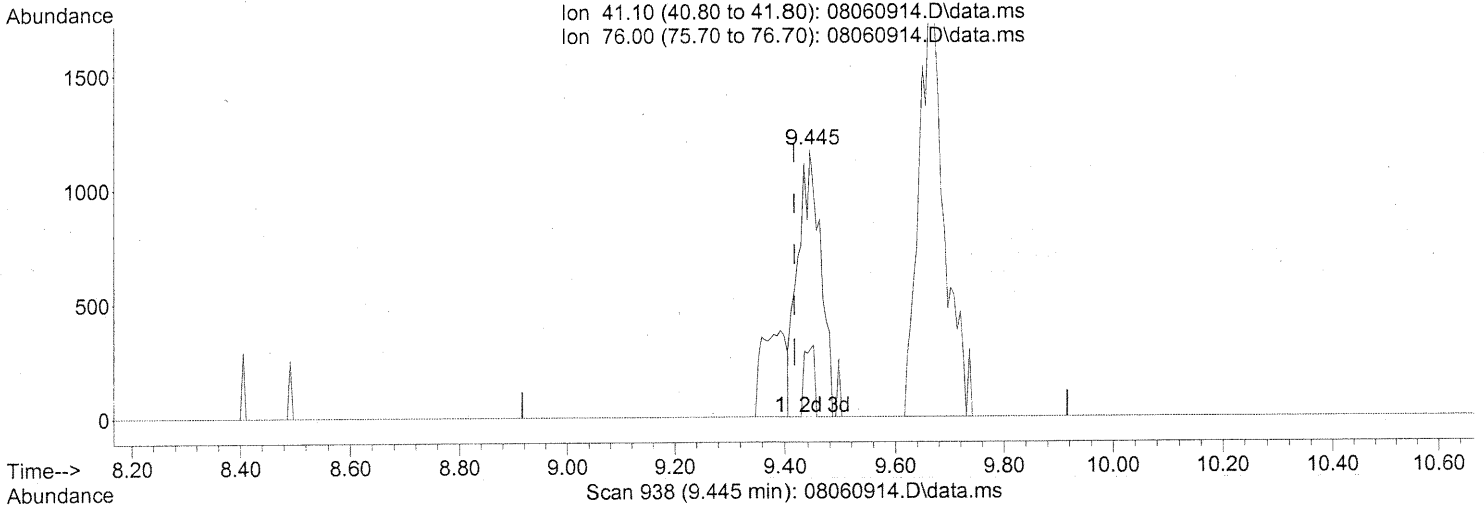
IPI

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.445min (+0.029) 0.14ng m

response 3293

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

IP1 -> IC

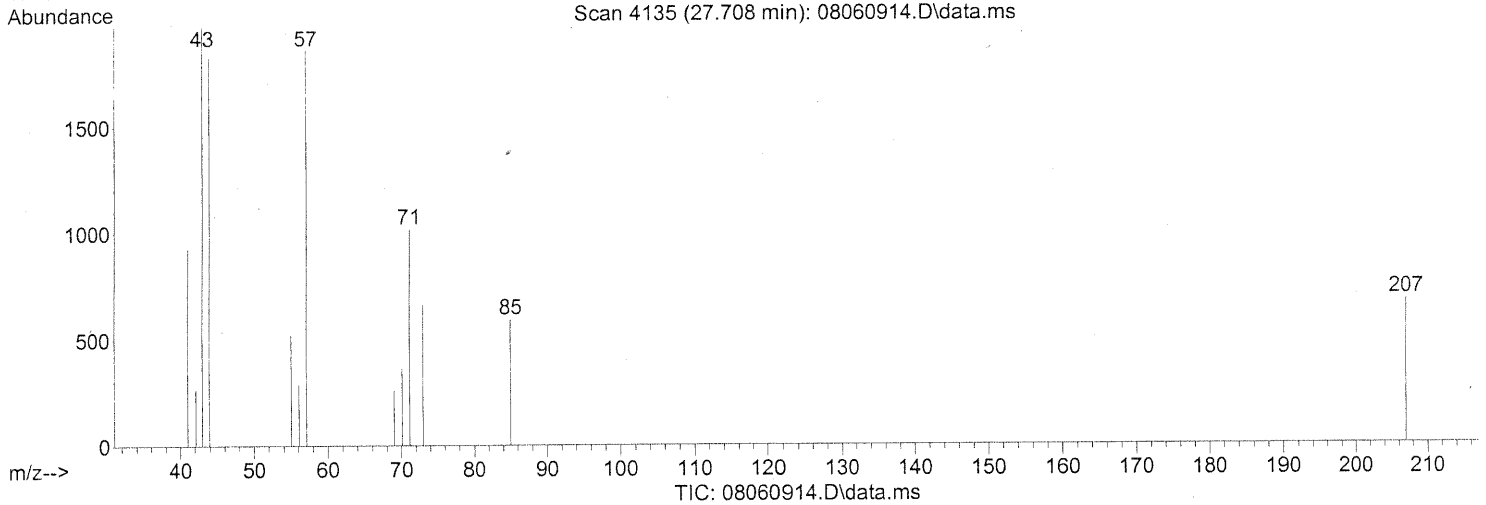
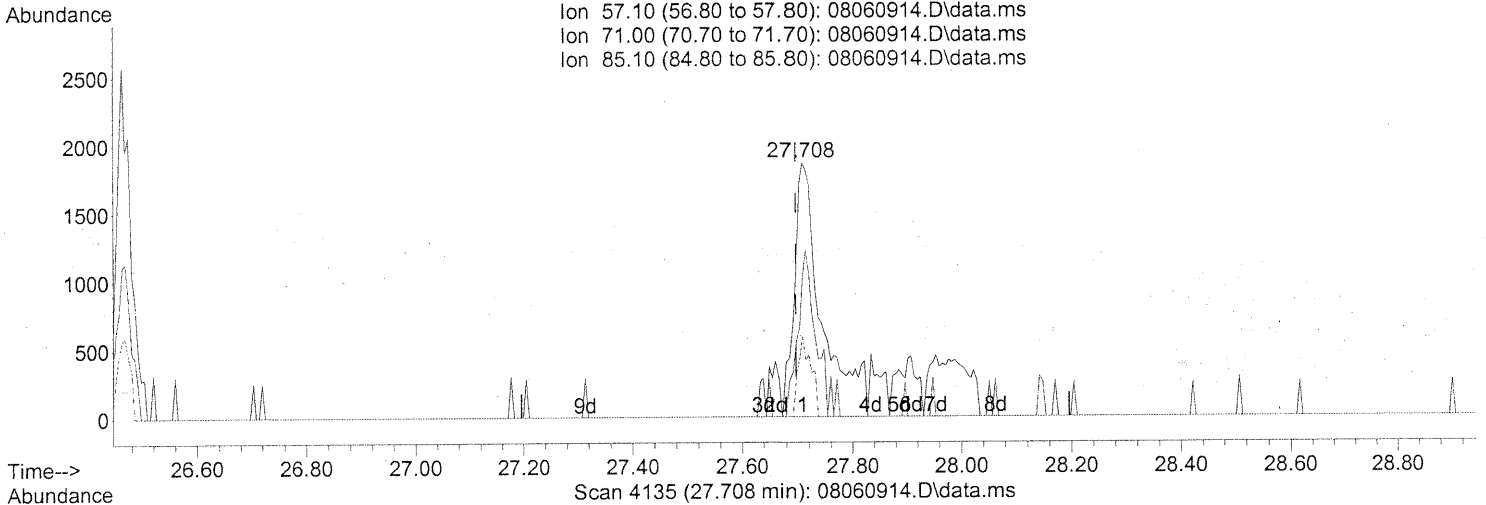
DA 8/16/09

W 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(96) n-Dodecane (T)
 27.708min (+0.012) 0.17ng

response - 6461

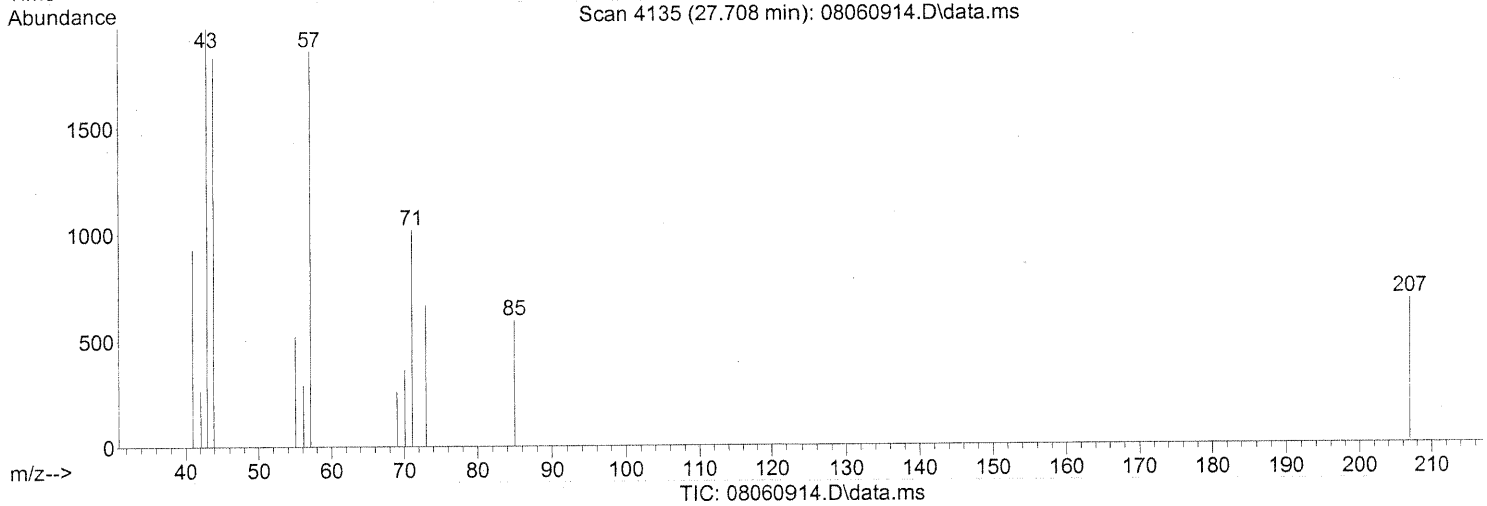
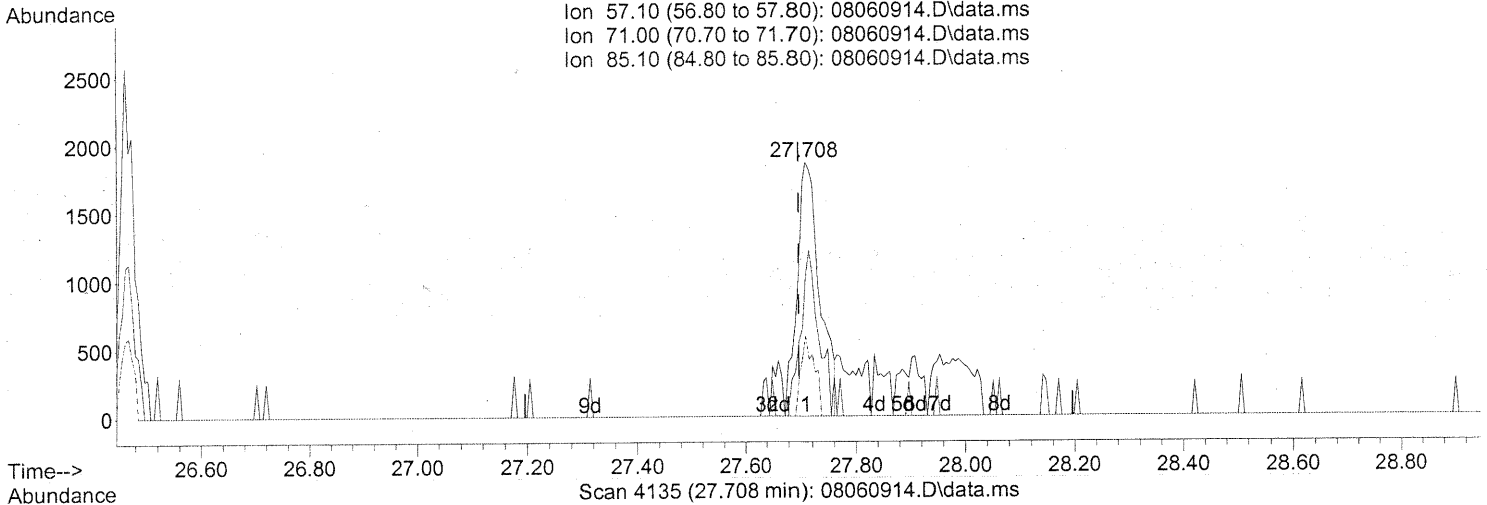
PT

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	44.30
85.10	31.00	15.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(96) n-Dodecane (T)
27.708min (+0.012) 0.14ng m
response 5122

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	55.88
85.10	31.00	18.96
0.00	0.00	0.00

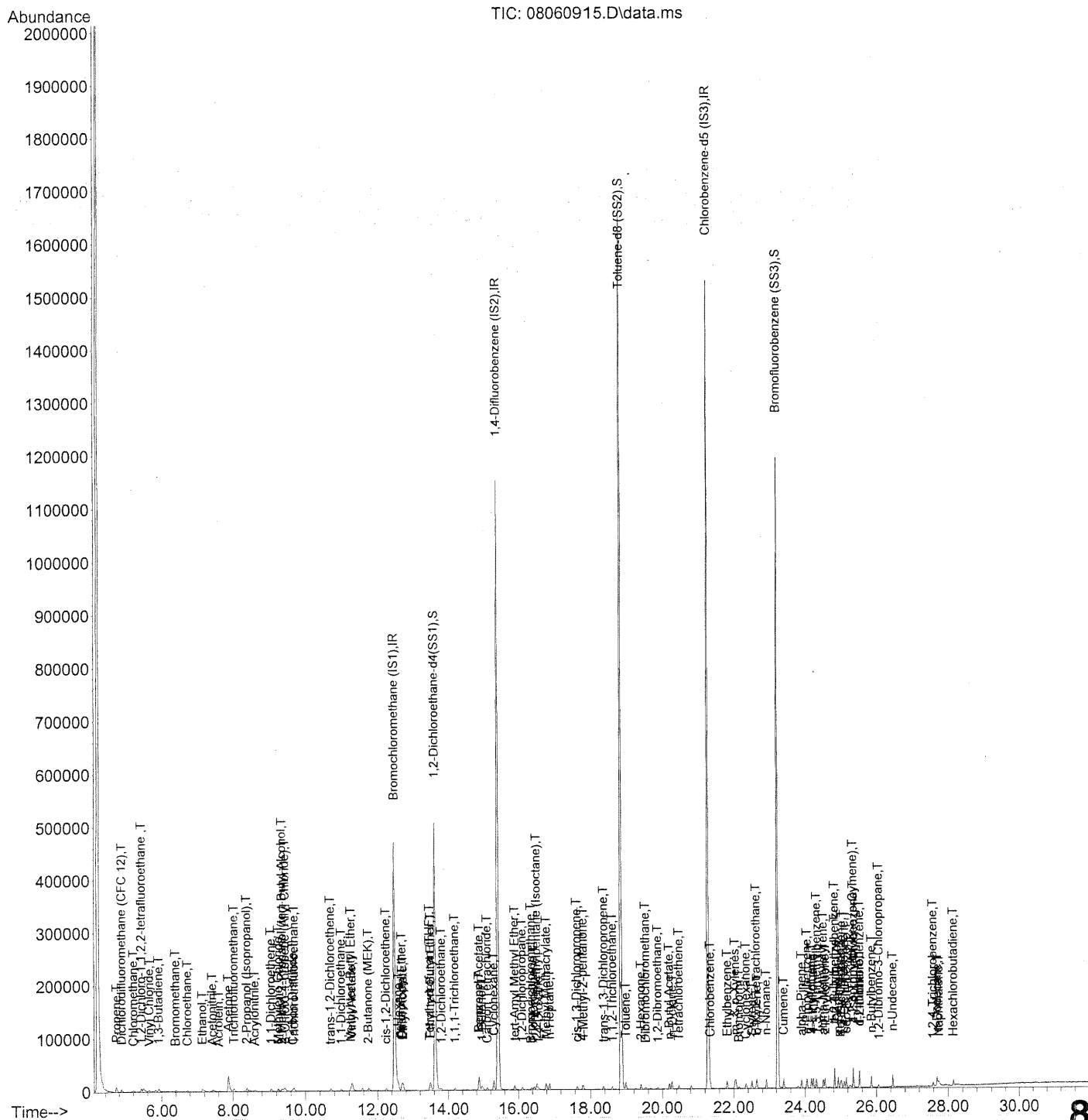
PT -> IC

WA 8/6/09

WA 8/11/09

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060915.D
Acq On : 6 Aug 2009 12:36
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	252357	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1287515	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	648408	25.000	ng	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 (...)	13.63	65	555188	24.104	ng	-0.01
Spiked Amount	25.000		Recovery	=	96.40%	
57) Toluene-d8 (SS2)	18.85	98	1423881	25.335	ng	0.00
Spiked Amount	25.000		Recovery	=	101.32%	
73) Bromofluorobenzene (SS3)	23.24	174	367233	25.587	ng	0.00
Spiked Amount	25.000		Recovery	=	102.36%	
Target Compounds						
2) Propene	4.72	42	4419	0.226	ng	95
3) Dichlorodifluoromethan...	4.88	85	6369	0.196	ng	# 87
4) Chloromethane	5.21	50	4086	0.199	ng	83
5) 1,2-Dichloro-1,1,2,2-t...	5.43	135	2817	0.221	ng	91
6) Vinyl Chloride	5.65	62	3579	0.178	ng	98
7) 1,3-Butadiene	5.92	54	3131	0.218	ng	# 84
8) Bromomethane	6.39	94	2208	0.240	ng	96
9) Chloroethane	6.73	64	2365	0.214	ng	76
10) Ethanol	7.14	45	12938	1.079	ng	90
11) Acetonitrile	7.43	41	8087	0.191	ng	98
12) Acrolein	7.61	56	1996	0.172	ng	97
13) Acetone	7.88	58	19631	1.432	ng	90
14) Trichlorofluoromethane	8.03	101	5515	0.196	ng	100
15) 2-Propanol (Isopropanol)	8.39	45	18213	0.402	ng	92
16) Acrylonitrile	8.61	53	4154	0.208	ng	# 68
17) 1,1-Dichloroethene	9.06	96	2579	0.203	ng	95
18) 2-Methyl-2-Propanol (t...	9.36	59	16711	0.430	ng	# 72
19) Methylene Chloride	9.26	84	3503	0.237	ng	87
20) 3-Chloro-1-propene (Al...	9.45	41	6518	0.274	ng	75
21) Trichlorotrifluoroethane	9.70	151	2010	0.194	ng	88
22) Carbon Disulfide	9.66	76	11291	0.222	ng	89
23) trans-1,2-Dichloroethene	10.69	61	4685	0.213	ng	98
24) 1,1-Dichloroethane	10.99	63	5901	0.215	ng	94
25) Methyl tert-Butyl Ether	11.26	73	8904	0.200	ng	96
26) Vinyl Acetate	11.29	86	2463	0.826	ng	# 18
27) 2-Butanone (MEK)	11.74	72	2236	0.225	ng	# 50
28) cis-1,2-Dichloroethene	12.24	61	4357	0.205	ng	93
29) Diisopropyl Ether	12.69	87	2973	0.247	ng	# 1
30) Ethyl Acetate	12.72	61	2207	0.428	ng	92
31) n-Hexane	12.59	57	6299	0.232	ng	84

871

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	4817	0.193	ng	98
34) Tetrahydrofuran (THF)	13.47	72	3093	0.264	ng	# 79
35) Ethyl tert-Butyl Ether	13.50	87	3408	0.185	ng	93
36) 1,2-Dichloroethane	13.80	62	4457	0.203	ng	93
38) 1,1,1-Trichloroethane	14.18	97	4737	0.198	ng	94
39) Isopropyl Acetate	14.88	61	4379	0.444	ng	# 93
40) 1-Butanol	14.96	56	8215	0.489	ng	83
41) Benzene	14.87	78	14131	0.224	ng	100
42) Carbon Tetrachloride	15.11	117	3903	0.195	ng	90
43) Cyclohexane	15.30	84	9304	0.418	ng	95
44) tert-Amyl Methyl Ether	15.90	73	9698	0.210	ng	97
45) 1,2-Dichloropropane	16.11	63	3093	0.202	ng	90
46) Bromodichloromethane	16.37	83	4318	0.222	ng	99
47) Trichloroethene	16.43	130	2706	0.206	ng	96
48) 1,4-Dioxane	16.59	88	2311	0.204	ng	80
49) 2,2,4-Trimethylpentane...	16.52	57	15224	0.219	ng	98
50) Methyl Methacrylate	16.80	100	2319	0.433	ng	# 89
51) n-Heptane	16.89	71	3376	0.205	ng	94
52) cis-1,3-Dichloropropene	17.65	75	4783	0.201	ng	95
53) 4-Methyl-2-pentanone	17.81	58	3120	0.219	ng	83
54) trans-1,3-Dichloropropene	18.37	75	4944	0.227	ng	98
55) 1,1,2-Trichloroethane	18.61	97	2714	0.205	ng	97
58) Toluene	18.98	91	12787	0.220	ng	99
59) 2-Hexanone	19.41	43	8414	0.215	ng	94
60) Dibromochloromethane	19.53	129	2958	0.217	ng	97
61) 1,2-Dibromoethane	19.87	107	3012	0.214	ng	96
62) n-Butyl Acetate	20.20	43	10164	0.229	ng	95
63) n-Octane	20.28	57	3172	0.216	ng	90
64) Tetrachloroethene	20.47	166	2555	0.193	ng	91
65) Chlorobenzene	21.35	112	7635	0.217	ng	94
66) Ethylbenzene	21.82	91	14159	0.215	ng	100
67) m- & p-Xylenes	22.04	91	23298	0.439	ng	# 30
68) Bromoform	22.15	173	2052	0.184	ng	92
69) Styrene	22.51	104	8110	0.219	ng	96
70) o-Xylene	22.65	91	11714	0.220	ng	99
71) n-Nonane	22.91	43	8045	0.216	ng	83
72) 1,1,2,2-Tetrachloroethane	22.63	83	5167	0.220	ng	91
74) Cumene	23.41	105	14433	0.222	ng	97
75) alpha-Pinene	23.91	93	7275	0.211	ng	82
76) n-Propylbenzene	24.05	91	17557	0.210	ng	99
77) 3-Ethyltoluene	24.18	105	14616	0.237	ng	95
78) 4-Ethyltoluene	24.23	105	13728	0.220	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	11202	0.210	ng	98

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

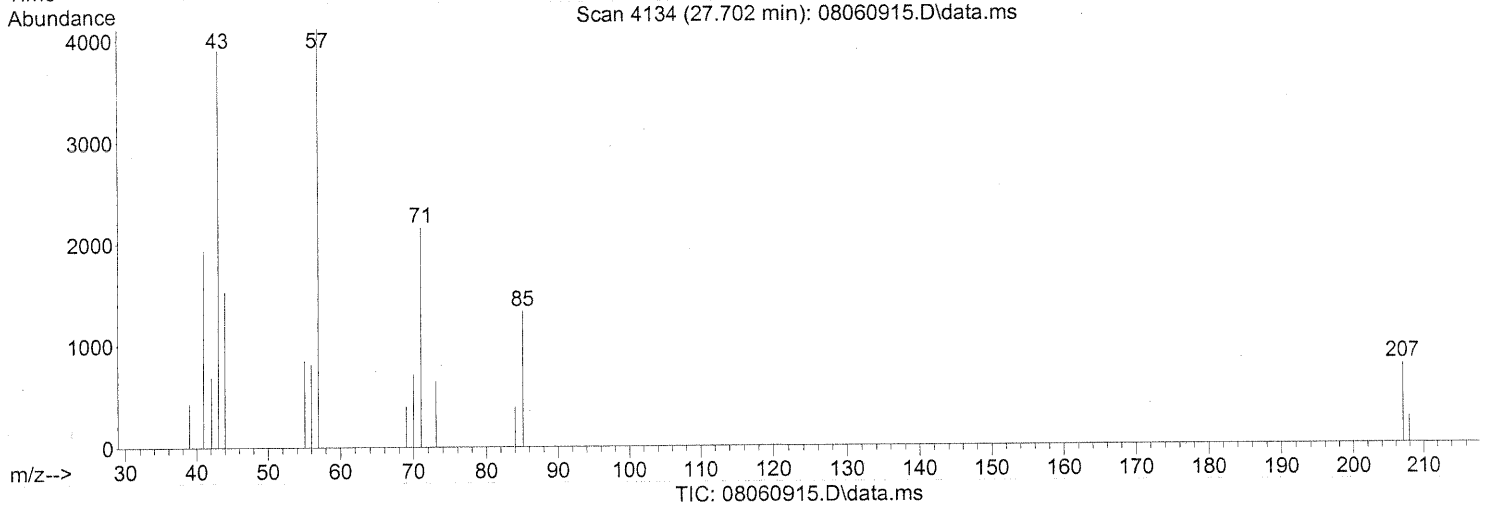
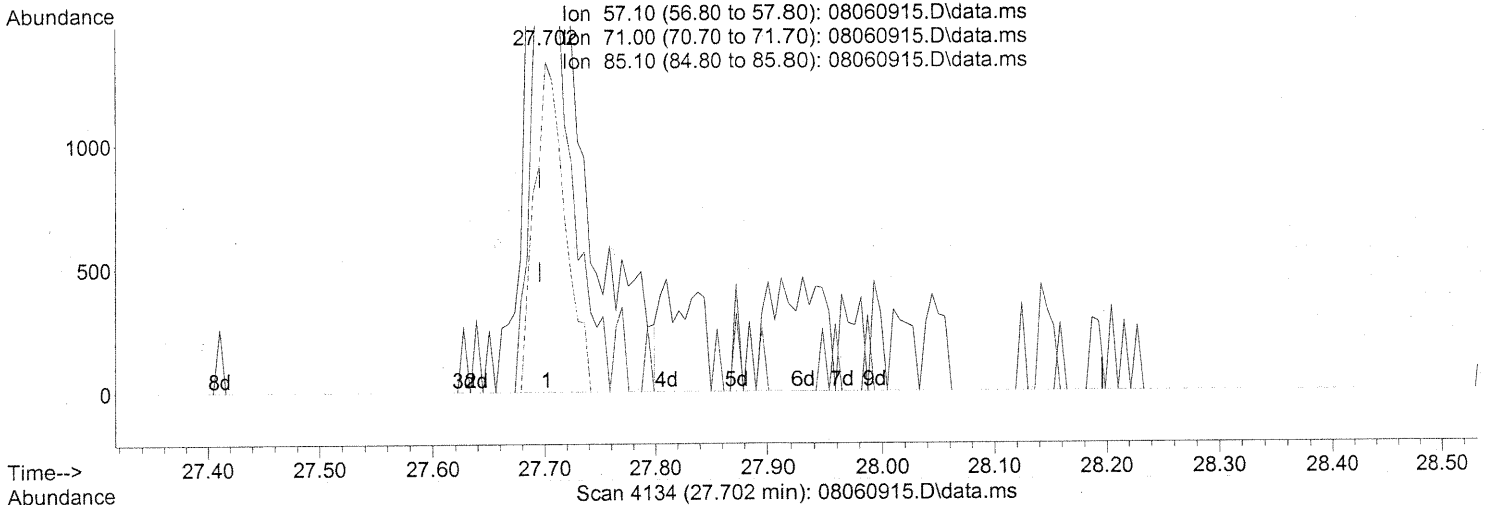
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	5651	0.210	ng	99
81) 2-Ethyltoluene	24.57	105	13747	0.213	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	11876	0.224	ng	98
83) n-Decane	24.93	57	7948	0.226	ng	95
84) Benzyl Chloride	25.00	91	10911	0.238	ng	97
85) 1,3-Dichlorobenzene	25.03	146	5614	0.221	ng	98
86) 1,4-Dichlorobenzene	25.11	146	6064	0.225	ng	94
87) sec-Butylbenzene	25.17	105	15761	0.221	ng	96
88) 4-Isopropyltoluene (p-...	25.35	119	13140	0.207	ng	95
89) 1,2,3-Trimethylbenzene	25.36	105	12238	0.227	ng	97
90) 1,2-Dichlorobenzene	25.53	146	5142	0.209	ng	95
91) d-Limonene	25.53	68	5001	0.217	ng	93
92) 1,2-Dibromo-3-Chloropr...	26.07	157	1840	0.234	ng	93
93) n-Undecane	26.46	57	8565	0.238	ng	94
94) 1,2,4-Trichlorobenzene	27.58	180	3584	0.231	ng	# 89
95) Naphthalene	27.74	128	15295	0.251	ng	84
96) n-Dodecane	27.70	57	9176m	0.241	ng	
97) Hexachlorobutadiene	28.14	225	2566	0.257	ng	96
98) Cyclohexanone	22.34	55	4726	0.178	ng	94
99) tert-Butylbenzene	24.83	119	10963	0.214	ng	100
100) n-Butylbenzene	25.87	91	12700	0.219	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:57 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(96) n-Dodecane (T)
 27.702min (+0.006) 0.27ng
 response 10324

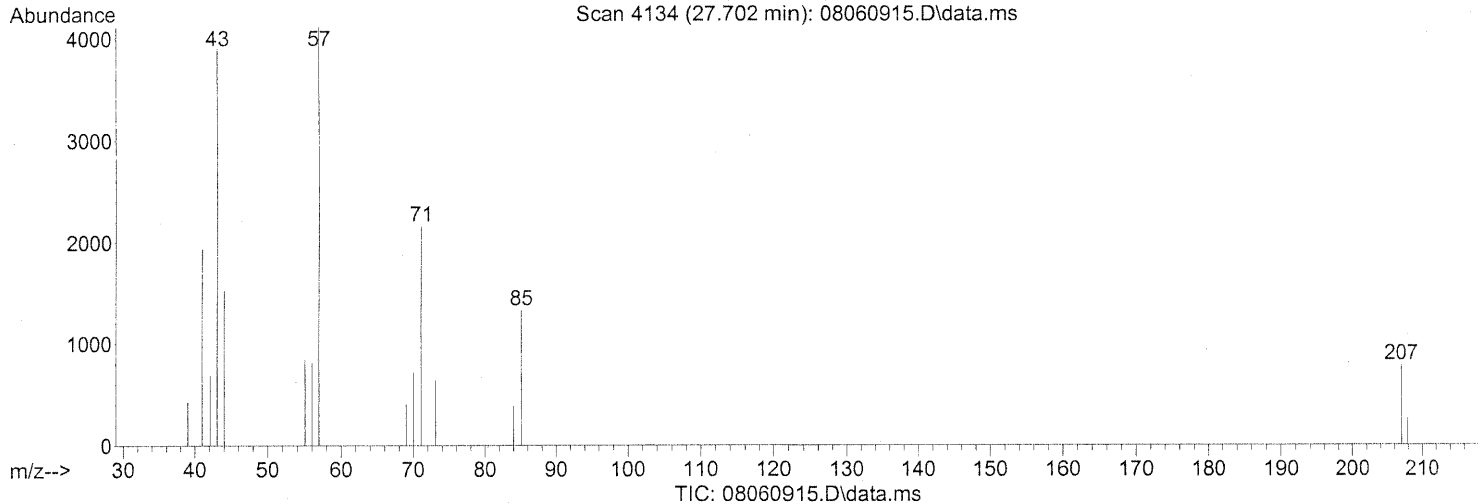
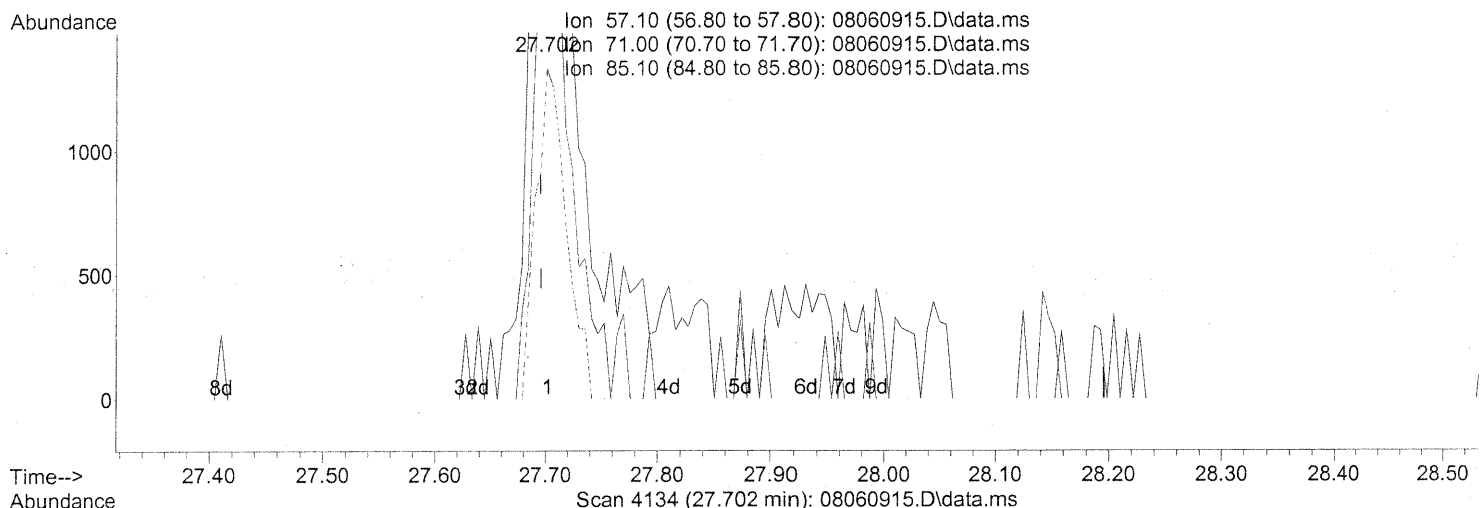
Ion	Exp%	Act%
57.10	100	100
71.00	55.20	48.39
85.10	31.00	24.76
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:57 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(96) n-Dodecane (T)

27.702min (+0.006) 0.24ng m

response 9176

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	54.45
85.10	31.00	27.86
0.00	0.00	0.00

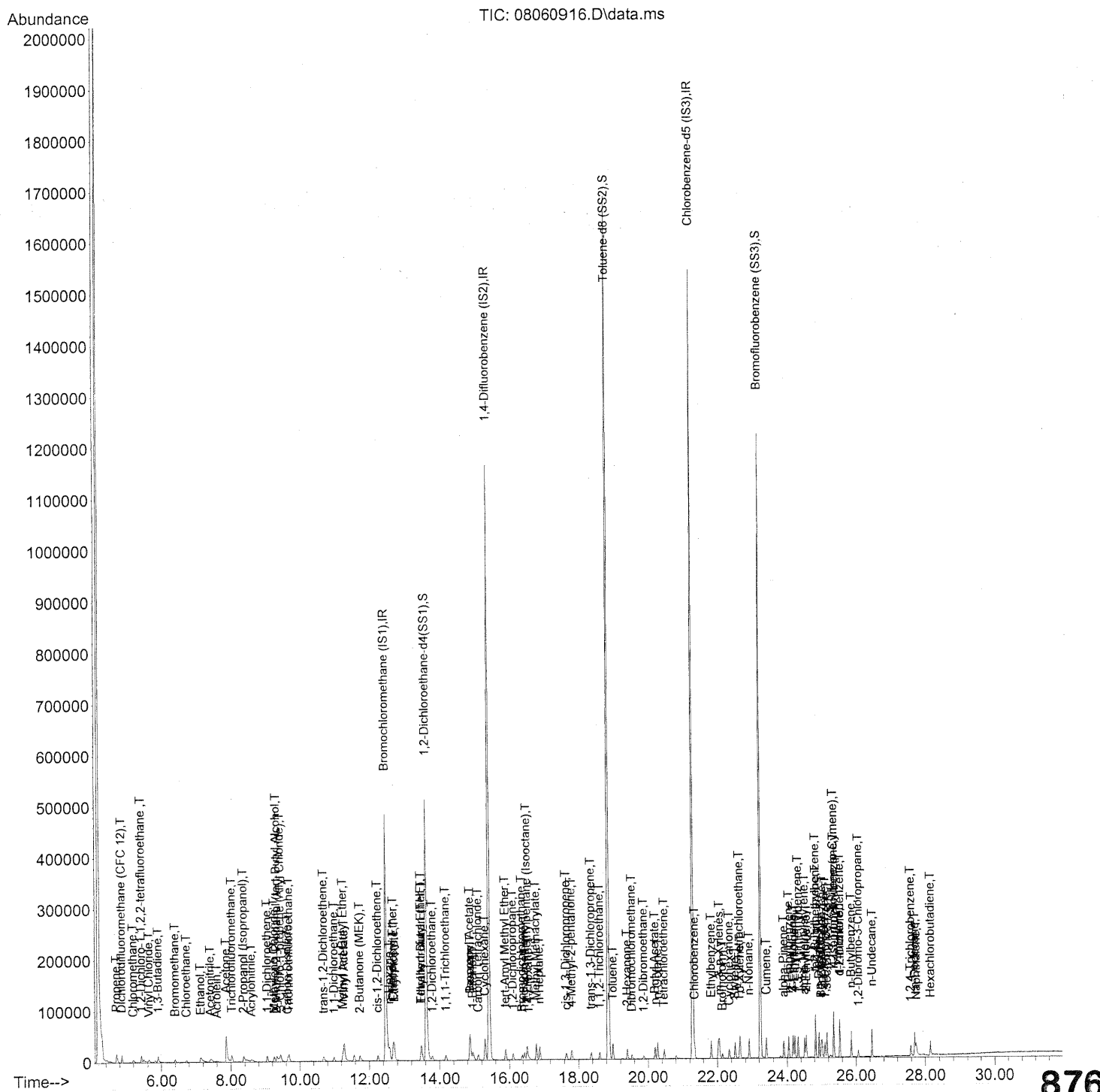
PT → IC

DA 8/6/09

WA 8/11/09

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060916.D
Acq On : 6 Aug 2009 13:17
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-07200902/S20-07310903
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	251360	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1297306	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	659325	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	555033	24.193	ng	0.00
Spiked Amount	25.000		Recovery	=	96.76%	
57) Toluene-d8 (SS2)	18.85	98	1438185	25.165	ng	0.00
Spiked Amount	25.000		Recovery	=	100.68%	
73) Bromofluorobenzene (SS3)	23.24	174	371243	25.439	ng	0.00
Spiked Amount	25.000		Recovery	=	101.76%	

Target Compounds

						Qvalue
2) Propene	4.70	42	8216	0.422	ng	95
3) Dichlorodifluoromethan...	4.86	85	14734	0.455	ng	97
4) Chloromethane	5.20	50	9411	0.460	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	6371	0.503	ng	100
6) Vinyl Chloride	5.64	62	8565	0.428	ng	99
7) 1,3-Butadiene	5.91	54	7445	0.520	ng	95
8) Bromomethane	6.40	94	5266	0.574	ng	94
9) Chloroethane	6.73	64	4665	0.424	ng	97
10) Ethanol	7.13	45	26864	2.249	ng	95
11) Acetonitrile	7.42	41	16894	0.401	ng	99
12) Acrolein	7.61	56	4162	0.360	ng	96
13) Acetone	7.87	58	32266	2.363	ng	95
14) Trichlorofluoromethane	8.03	101	13358	0.476	ng	98
15) 2-Propanol (Isopropanol)	8.37	45	40537	0.898	ng	83
16) Acrylonitrile	8.59	53	9433	0.475	ng	98
17) 1,1-Dichloroethene	9.06	96	6255	0.494	ng	91
18) 2-Methyl-2-Propanol (t...	9.33	59	37768	0.976	ng	82
19) Methylene Chloride	9.26	84	6743	0.459	ng	98
20) 3-Chloro-1-propene (Al...	9.44	41	15298	0.645	ng	80
21) Trichlorotrifluoroethane	9.70	151	4915	0.477	ng	96
22) Carbon Disulfide	9.65	76	24760	0.489	ng	# 74
23) trans-1,2-Dichloroethene	10.69	61	10278	0.469	ng	99
24) 1,1-Dichloroethane	10.99	63	12065	0.442	ng	98
25) Methyl tert-Butyl Ether	11.25	73	19979	0.451	ng	99
26) Vinyl Acetate	11.29	86	5981	2.014	ng	# 48
27) 2-Butanone (MEK)	11.74	72	5062	0.512	ng	# 88
28) cis-1,2-Dichloroethene	12.24	61	9809	0.463	ng	99
29) Diisopropyl Ether	12.69	87	6520	0.544	ng	# 1
30) Ethyl Acetate	12.72	61	5291	1.030	ng	97
31) n-Hexane	12.58	57	12706	0.470	ng	91

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	11191	0.451	ng	99
34) Tetrahydrofuran (THF)	13.48	72	5678	0.487	ng #	86
35) Ethyl tert-Butyl Ether	13.49	87	8229	0.448	ng	97
36) 1,2-Dichloroethane	13.80	62	10322	0.472	ng	97
38) 1,1,1-Trichloroethane	14.18	97	10785	0.448	ng	98
39) Isopropyl Acetate	14.87	61	9606	0.968	ng #	90
40) 1-Butanol	14.96	56	16246	0.959	ng	85
41) Benzene	14.88	78	29072	0.458	ng	99
42) Carbon Tetrachloride	15.11	117	9173	0.455	ng	100
43) Cyclohexane	15.30	84	21267	0.948	ng	99
44) tert-Amyl Methyl Ether	15.89	73	21956	0.472	ng	98
45) 1,2-Dichloropropane	16.11	63	7082	0.459	ng	98
46) Bromodichloromethane	16.37	83	9525	0.486	ng	99
47) Trichloroethene	16.45	130	6343	0.479	ng	98
48) 1,4-Dioxane	16.57	88	6011	0.528	ng	89
49) 2,2,4-Trimethylpentane...	16.52	57	33244	0.475	ng	99
50) Methyl Methacrylate	16.79	100	5377	0.998	ng	95
51) n-Heptane	16.88	71	7790	0.470	ng	99
52) cis-1,3-Dichloropropene	17.66	75	10842	0.453	ng	98
53) 4-Methyl-2-pentanone	17.80	58	7333	0.511	ng	91
54) trans-1,3-Dichloropropene	18.36	75	11151	0.509	ng	100
55) 1,1,2-Trichloroethane	18.61	97	6160	0.462	ng	98
58) Toluene	18.99	91	28640	0.484	ng	99
59) 2-Hexanone	19.40	43	19538	0.492	ng	97
60) Dibromochloromethane	19.53	129	7167	0.517	ng	93
61) 1,2-Dibromoethane	19.87	107	6714	0.470	ng	98
62) n-Butyl Acetate	20.20	43	22390	0.496	ng	99
63) n-Octane	20.28	57	7129	0.478	ng	100
64) Tetrachloroethene	20.46	166	6404	0.475	ng	100
65) Chlorobenzene	21.34	112	17302	0.484	ng	100
66) Ethylbenzene	21.82	91	32353	0.484	ng	98
67) m- & p-Xylenes	22.06	91	50569	0.938	ng #	30
68) Bromoform	22.15	173	5337	0.471	ng	97
69) Styrene	22.51	104	18352	0.488	ng	98
70) o-Xylene	22.65	91	26471	0.488	ng	97
71) n-Nonane	22.91	43	17683	0.467	ng	93
72) 1,1,2,2-Tetrachloroethane	22.63	83	11841	0.496	ng	95
74) Cumene	23.41	105	31734	0.479	ng	97
75) alpha-Pinene	23.90	93	15763	0.450	ng	95
76) n-Propylbenzene	24.05	91	40346	0.474	ng	99
77) 3-Ethyltoluene	24.18	105	32540	0.519	ng	95
78) 4-Ethyltoluene	24.23	105	30506	0.480	ng	100
79) 1,3,5-Trimethylbenzene	24.32	105	26350	0.487	ng	100

878

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

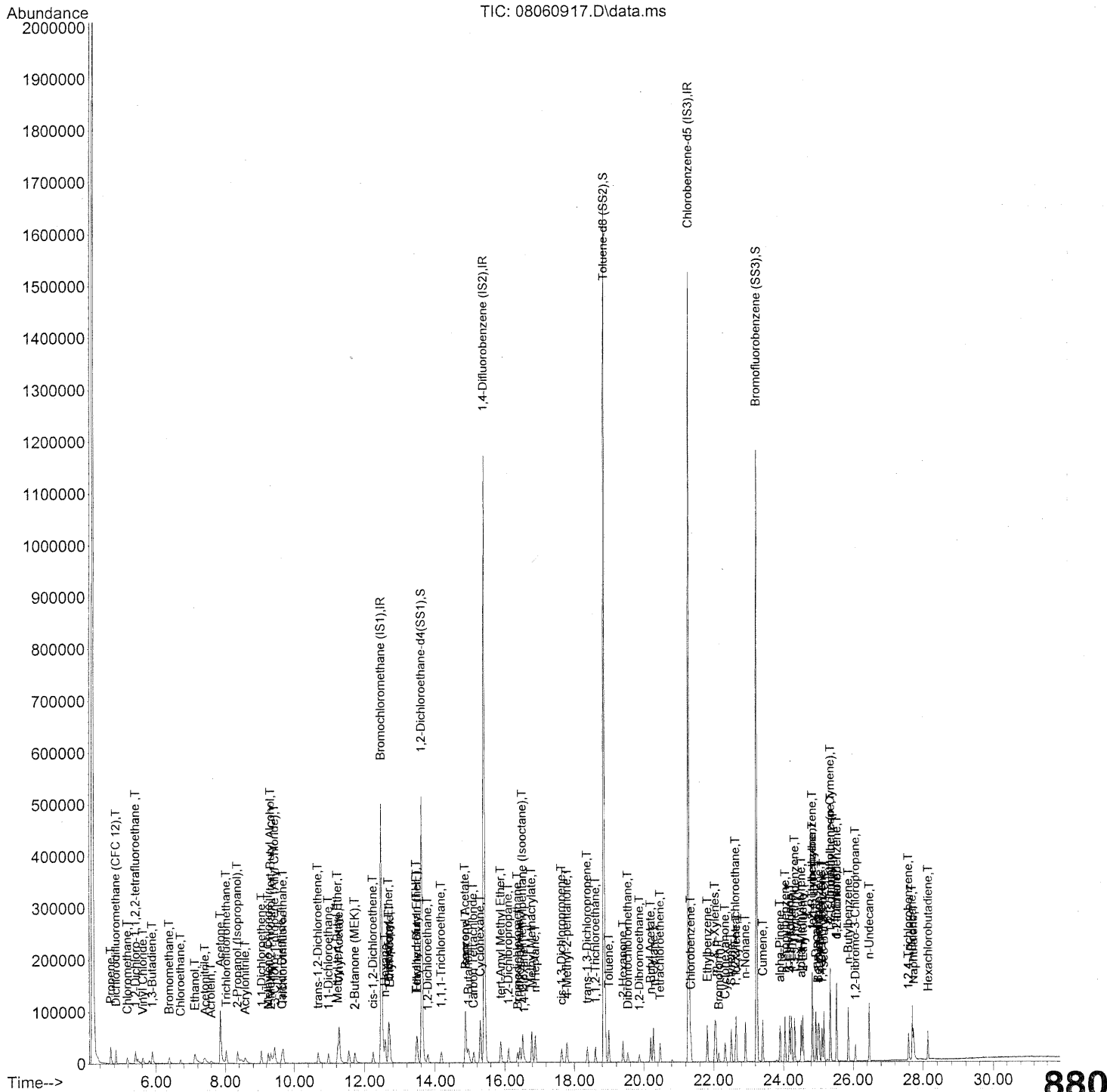
Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	12971	0.473	ng	97
81) 2-Ethyltoluene	24.57	105	31095	0.473	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	26353	0.488	ng	96
83) n-Decane	24.94	57	18126	0.506	ng	98
84) Benzyl Chloride	25.00	91	24206	0.520	ng	100
85) 1,3-Dichlorobenzene	25.03	146	12977	0.502	ng	98
86) 1,4-Dichlorobenzene	25.11	146	13901	0.506	ng	97
87) sec-Butylbenzene	25.17	105	35698	0.493	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	31753	0.493	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	27977	0.510	ng	100
90) 1,2-Dichlorobenzene	25.53	146	12508	0.501	ng	98
91) d-Limonene	25.53	68	11768	0.502	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	4075	0.510	ng	90
93) n-Undecane	26.46	57	18836	0.515	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	8410	0.533	ng	97
95) Naphthalene	27.74	128	33134	0.535	ng	93
96) n-Dodecane	27.70	57	20632	0.533	ng	95
97) Hexachlorobutadiene	28.15	225	5535	0.546	ng	100
98) Cyclohexanone	22.34	55	10843	0.402	ng	97
99) tert-Butylbenzene	24.83	119	25490	0.490	ng	97
100) n-Butylbenzene	25.86	91	30481	0.517	ng	98

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) Bromochloromethane (IS1)	12.48	130	253159	25.000	ng	0.00	
37) 1,4-Difluorobenzene (IS2)	15.42	114	1287874	25.000	ng	-0.01	
56) Chlorobenzene-d5 (IS3)	21.29	82	650609	25.000	ng	0.00	
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4 (...)	13.63	65	554603	24.002	ng	-0.01	
Spiked Amount	25.000		Recovery	=	96.00%		
57) Toluene-d8 (SS2)	18.85	98	1420867	25.196	ng	0.00	
Spiked Amount	25.000		Recovery	=	100.80%		
73) Bromofluorobenzene (SS3)	23.24	174	366142	25.425	ng	0.00	
Spiked Amount	25.000		Recovery	=	101.72%		
Target Compounds							
							Qvalue
2) Propene	4.70	42	15729	0.803	ng		98
3) Dichlorodifluoromethan...	4.86	85	28962	0.889	ng		99
4) Chloromethane	5.18	50	19165	0.931	ng		97
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	11280	0.884	ng		99
6) Vinyl Chloride	5.62	62	17901	0.889	ng		98
7) 1,3-Butadiene	5.89	54	14844	1.029	ng		95
8) Bromomethane	6.38	94	10788	1.167	ng		95
9) Chloroethane	6.71	64	10224	0.923	ng		92
10) Ethanol	7.12	45	54360	4.518	ng		98
11) Acetonitrile	7.42	41	31256	0.737	ng		99
12) Acrolein	7.59	56	8675	0.746	ng		98
13) Acetone	7.86	58	59842	4.351	ng		99
14) Trichlorofluoromethane	8.03	101	25722	0.909	ng		98
15) 2-Propanol (Isopropanol)	8.35	45	78074	1.717	ng		95
16) Acrylonitrile	8.58	53	19833	0.991	ng		100
17) 1,1-Dichloroethene	9.05	96	12813	1.005	ng		91
18) 2-Methyl-2-Propanol (t...	9.32	59	75842	1.947	ng		80
19) Methylene Chloride	9.25	84	13644	0.922	ng		99
20) 3-Chloro-1-propene (Al...	9.44	41	30907	1.293	ng		82
21) Trichlorotrifluoroethane	9.68	151	9982	0.961	ng		98
22) Carbon Disulfide	9.65	76	49774	0.977	ng		100
23) trans-1,2-Dichloroethene	10.68	61	21976	0.995	ng		99
24) 1,1-Dichloroethane	10.98	63	26037	0.946	ng		100
25) Methyl tert-Butyl Ether	11.24	73	39678	0.890	ng		100
26) Vinyl Acetate	11.28	86	12172	4.070	ng	#	63
27) 2-Butanone (MEK)	11.72	72	9933	0.997	ng	#	84
28) cis-1,2-Dichloroethene	12.24	61	20467	0.958	ng		96
29) Diisopropyl Ether	12.68	87	13497	1.117	ng	#	1
30) Ethyl Acetate	12.71	61	10334	1.998	ng		99
31) n-Hexane	12.58	57	26377	0.968	ng		95

881

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	23278	0.931	ng	100
34) Tetrahydrofuran (THF)	13.47	72	10036	0.854	ng #	89
35) Ethyl tert-Butyl Ether	13.49	87	16455	0.890	ng	99
36) 1,2-Dichloroethane	13.79	62	20046	0.910	ng	98
38) 1,1,1-Trichloroethane	14.17	97	21730	0.909	ng	96
39) Isopropyl Acetate	14.87	61	18933	1.921	ng #	82
40) 1-Butanol	14.95	56	31282	1.861	ng	83
41) Benzene	14.88	78	55682	0.883	ng	99
42) Carbon Tetrachloride	15.10	117	18312	0.914	ng	99
43) Cyclohexane	15.30	84	42338	1.901	ng	99
44) tert-Amyl Methyl Ether	15.89	73	42797	0.926	ng	98
45) 1,2-Dichloropropane	16.11	63	14488	0.946	ng	100
46) Bromodichloromethane	16.38	83	19155	0.984	ng	98
47) Trichloroethene	16.44	130	12738	0.969	ng	99
48) 1,4-Dioxane	16.57	88	11142	0.985	ng #	68
49) 2,2,4-Trimethylpentane...	16.52	57	66591	0.958	ng	97
50) Methyl Methacrylate	16.79	100	10587	1.978	ng	96
51) n-Heptane	16.89	71	15425	0.937	ng	99
52) cis-1,3-Dichloropropene	17.65	75	22102	0.930	ng	100
53) 4-Methyl-2-pentanone	17.80	58	14470	1.016	ng	94
54) trans-1,3-Dichloropropene	18.36	75	23424	1.078	ng	99
55) 1,1,2-Trichloroethane	18.61	97	12640	0.955	ng	96
58) Toluene	18.99	91	57012	0.977	ng	99
59) 2-Hexanone	19.40	43	39077	0.996	ng	99
60) Dibromochloromethane	19.54	129	14256	1.042	ng	99
61) 1,2-Dibromoethane	19.87	107	14117	1.001	ng	100
62) n-Butyl Acetate	20.20	43	44725	1.004	ng	99
63) n-Octane	20.28	57	13890	0.944	ng	97
64) Tetrachloroethene	20.47	166	12781	0.961	ng	97
65) Chlorobenzene	21.35	112	35691	1.012	ng	99
66) Ethylbenzene	21.82	91	64286	0.974	ng	100
67) m- & p-Xylenes	22.04	91	102993	1.935	ng #	30
68) Bromoform	22.16	173	10221	0.914	ng	96
69) Styrene	22.51	104	36918	0.995	ng	98
70) o-Xylene	22.65	91	52204	0.975	ng	100
71) n-Nonane	22.91	43	35568	0.951	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	23941	1.017	ng	98
74) Cumene	23.41	105	63375	0.970	ng	98
75) alpha-Pinene	23.90	93	32053	0.926	ng	96
76) n-Propylbenzene	24.05	91	82766	0.986	ng	98
77) 3-Ethyltoluene	24.18	105	62532	1.011	ng	99
78) 4-Ethyltoluene	24.23	105	63400	1.011	ng	100
79) 1,3,5-Trimethylbenzene	24.32	105	52731	0.987	ng	100

882

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

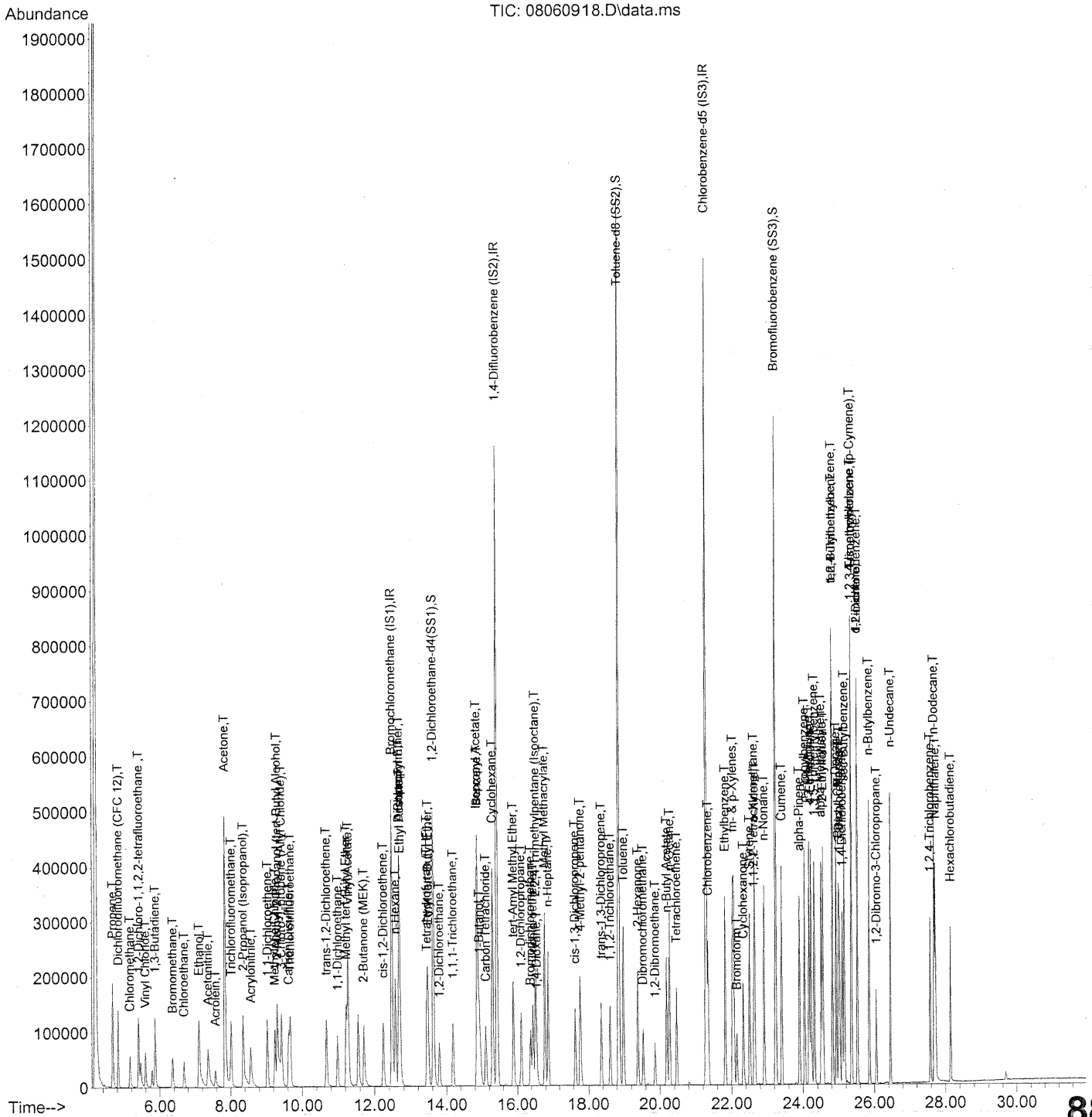
Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	27052	1.000	ng	96
81) 2-Ethyltoluene	24.56	105	62808	0.968	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	54320	1.019	ng	99
83) n-Decane	24.94	57	36002	1.019	ng	99
84) Benzyl Chloride	25.00	91	50759	1.106	ng	97
85) 1,3-Dichlorobenzene	25.03	146	27203	1.066	ng	98
86) 1,4-Dichlorobenzene	25.11	146	27477	1.014	ng	100
87) sec-Butylbenzene	25.17	105	71023	0.994	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	62425	0.982	ng	97
89) 1,2,3-Trimethylbenzene	25.36	105	54604	1.008	ng	98
90) 1,2-Dichlorobenzene	25.53	146	25453	1.032	ng	99
91) d-Limonene	25.53	68	22906	0.991	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.07	157	9032	1.145	ng	96
93) n-Undecane	26.46	57	39335	1.089	ng	97
94) 1,2,4-Trichlorobenzene	27.59	180	18307	1.175	ng	98
95) Naphthalene	27.74	128	69383	1.134	ng	97
96) n-Dodecane	27.70	57	41338	1.082	ng	95
97) Hexachlorobutadiene	28.15	225	10594	1.059	ng	98
98) Cyclohexanone	22.34	55	21416	0.805	ng	99
99) tert-Butylbenzene	24.83	119	51340	1.000	ng	98
100) n-Butylbenzene	25.86	91	61539	1.058	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	249215	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1269404	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	640609	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	541276	23.796	ng	0.00
Spiked Amount	25.000		Recovery	=	95.20%	
57) Toluene-d8 (SS2)	18.86	98	1393939	25.104	ng	0.00
Spiked Amount	25.000		Recovery	=	100.40%	
73) Bromofluorobenzene (SS3)	23.24	174	369692	26.072	ng	0.00
Spiked Amount	25.000		Recovery	=	104.28%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	89432	4.636	ng	99
3) Dichlorodifluoromethan...	4.84	85	140828	4.390	ng	99
4) Chloromethane	5.15	50	84961	4.191	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	54919	4.370	ng	97
6) Vinyl Chloride	5.59	62	89033	4.491	ng	100
7) 1,3-Butadiene	5.87	54	73562	5.181	ng	98
8) Bromomethane	6.36	94	52677	5.786	ng	99
9) Chloroethane	6.69	64	52005	4.770	ng	95
10) Ethanol	7.11	45	258014	21.785	ng	100
11) Acetonitrile	7.37	41	150692	3.611	ng	99
12) Acrolein	7.57	56	44402	3.876	ng	99
13) Acetone	7.84	58	278483	20.568	ng	96
14) Trichlorofluoromethane	8.02	101	123504	4.435	ng	99
15) 2-Propanol (Isopropanol)	8.35	45	301287	6.731	ng	97
16) Acrylonitrile	8.57	53	100540	5.104	ng	100
17) 1,1-Dichloroethene	9.04	96	62068	4.946	ng	93
18) 2-Methyl-2-Propanol (t...	9.31	59	359931	9.384	ng	95
19) Methylene Chloride	9.24	84	65696	4.508	ng	99
20) 3-Chloro-1-propene (Al...	9.43	41	129259	5.493	ng	92
21) Trichlorotrifluoroethane	9.68	151	47871	4.683	ng	96
22) Carbon Disulfide	9.63	76	243057	4.846	ng	100
23) trans-1,2-Dichloroethene	10.68	61	107824	4.959	ng	99
24) 1,1-Dichloroethane	10.99	63	124688	4.604	ng	99
25) Methyl tert-Butyl Ether	11.23	73	197911	4.509	ng	99
26) Vinyl Acetate	11.28	86	44312	15.052	ng	# 69
27) 2-Butanone (MEK)	11.71	72	50182	5.115	ng	# 92
28) cis-1,2-Dichloroethene	12.24	61	102666	4.883	ng	99
29) Diisopropyl Ether	12.68	87	64732	5.444	ng	# 1
30) Ethyl Acetate	12.71	61	52338	10.281	ng	97
31) n-Hexane	12.58	57	123098	4.588	ng	88

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	113521	4.612	ng	99
34) Tetrahydrofuran (THF)	13.46	72	47151	4.075	ng	95
35) Ethyl tert-Butyl Ether	13.48	87	77046	4.234	ng	99
36) 1,2-Dichloroethane	13.80	62	97747	4.510	ng	97
38) 1,1,1-Trichloroethane	14.18	97	104481	4.435	ng	98
39) Isopropyl Acetate	14.86	61	94088	9.685	ng	# 84
40) 1-Butanol	14.92	56	150422	9.077	ng	82
41) Benzene	14.88	78	266073	4.281	ng	99
42) Carbon Tetrachloride	15.11	117	92233	4.673	ng	99
43) Cyclohexane	15.30	84	209843	9.557	ng	98
44) tert-Amyl Methyl Ether	15.89	73	204750	4.496	ng	100
45) 1,2-Dichloropropane	16.11	63	69671	4.617	ng	100
46) Bromodichloromethane	16.38	83	93085	4.854	ng	99
47) Trichloroethene	16.45	130	62720	4.839	ng	98
48) 1,4-Dioxane	16.56	88	55737	5.001	ng	# 73
49) 2,2,4-Trimethylpentane...	16.52	57	325558	4.752	ng	96
50) Methyl Methacrylate	16.79	100	53436	10.131	ng	96
51) n-Heptane	16.88	71	74028	4.561	ng	98
52) cis-1,3-Dichloropropene	17.65	75	108231	4.619	ng	99
53) 4-Methyl-2-pentanone	17.79	58	70345	5.011	ng	97
54) trans-1,3-Dichloropropene	18.36	75	114007	5.321	ng	99
55) 1,1,2-Trichloroethane	18.61	97	60472	4.636	ng	100
58) Toluene	18.99	91	270680	4.712	ng	99
59) 2-Hexanone	19.39	43	192690	4.989	ng	99
60) Dibromochloromethane	19.53	129	70986	5.272	ng	98
61) 1,2-Dibromoethane	19.87	107	69321	4.990	ng	98
62) n-Butyl Acetate	20.20	43	218998	4.994	ng	100
63) n-Octane	20.28	57	67291	4.644	ng	97
64) Tetrachloroethene	20.47	166	59893	4.573	ng	98
65) Chlorobenzene	21.35	112	168463	4.853	ng	99
66) Ethylbenzene	21.82	91	312047	4.800	ng	100
67) m- & p-Xylenes	22.04	91	487391	9.302	ng	# 30
68) Bromoform	22.15	173	54281	4.930	ng	100
69) Styrene	22.51	104	183096	5.011	ng	97
70) o-Xylene	22.66	91	252696	4.794	ng	98
71) n-Nonane	22.91	43	166786	4.529	ng	98
72) 1,1,2,2-Tetrachloroethane	22.63	83	115016	4.963	ng	100
74) Cumene	23.41	105	304404	4.730	ng	99
75) alpha-Pinene	23.90	93	157830	4.632	ng	98
76) n-Propylbenzene	24.05	91	393830	4.766	ng	99
77) 3-Ethyltoluene	24.18	105	312687	5.133	ng	99
78) 4-Ethyltoluene	24.23	105	300258	4.865	ng	99
79) 1,3,5-Trimethylbenzene	24.32	105	256223	4.871	ng	100

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

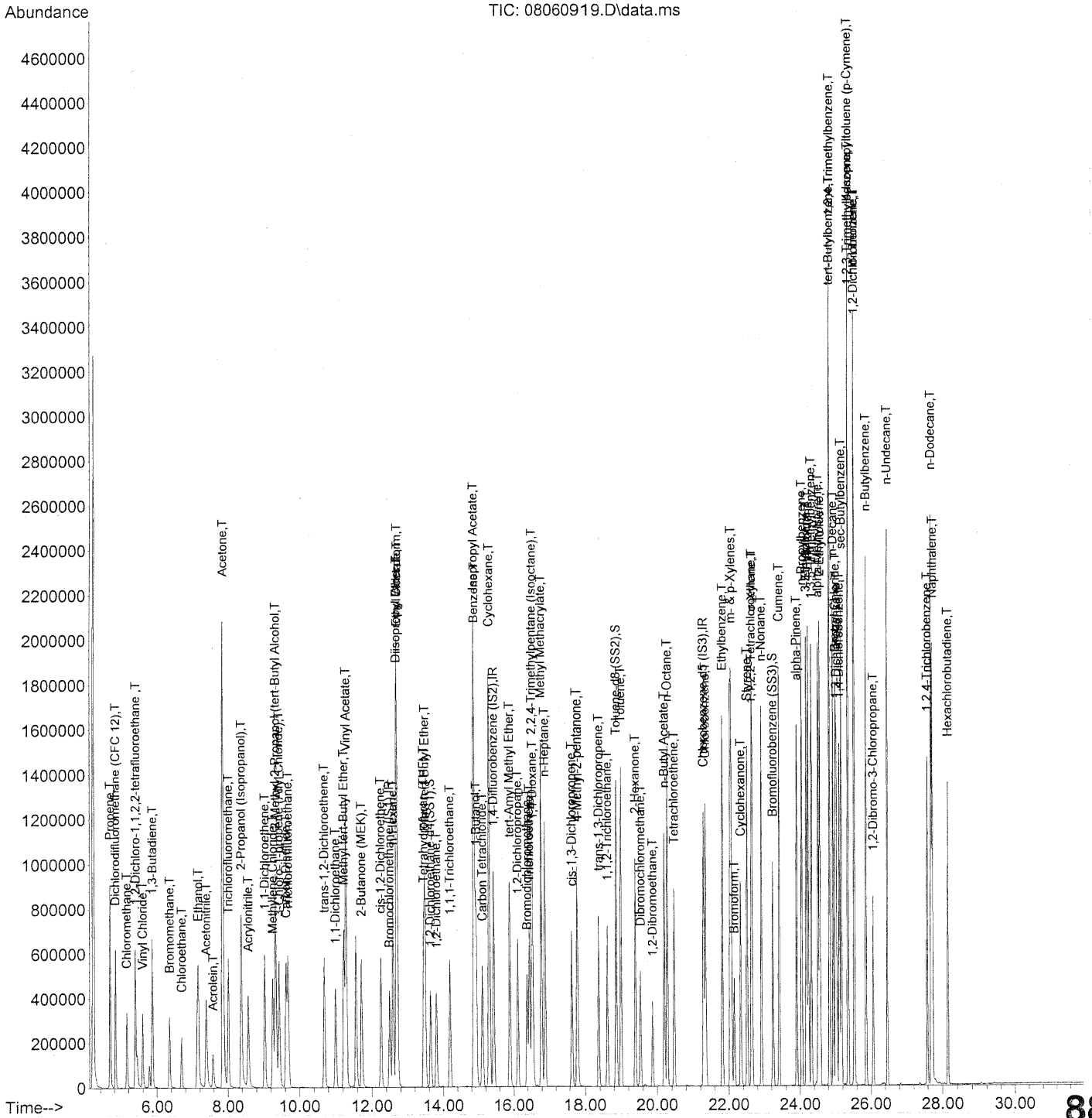
Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	137848	5.174	ng	98
81) 2-Ethyltoluene	24.56	105	305024	4.773	ng	100
82) 1,2,4-Trimethylbenzene	24.83	105	257449	4.905	ng	99
83) n-Decane	24.94	57	171862	4.941	ng	99
84) Benzyl Chloride	25.01	91	258427	5.717	ng	99
85) 1,3-Dichlorobenzene	25.03	146	131275	5.227	ng	97
86) 1,4-Dichlorobenzene	25.11	146	133153	4.993	ng	100
87) sec-Butylbenzene	25.17	105	345740	4.915	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	305963	4.889	ng	98
89) 1,2,3-Trimethylbenzene	25.36	105	265359	4.975	ng	98
90) 1,2-Dichlorobenzene	25.53	146	123261	5.077	ng	100
91) d-Limonene	25.53	68	113934	5.005	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	47123	6.066	ng	96
93) n-Undecane	26.46	57	184521	5.189	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	91111	5.938	ng	99
95) Naphthalene	27.73	128	353074	5.862	ng	100
96) n-Dodecane	27.70	57	188594	5.016	ng	99
97) Hexachlorobutadiene	28.15	225	51370	5.213	ng	100
98) Cyclohexanone	22.33	55	103876	3.963	ng	99
99) tert-Butylbenzene	24.83	119	245043	4.847	ng	99
100) n-Butylbenzene	25.86	91	301669	5.270	ng	100

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

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060919.D
Acq On : 6 Aug 2009 15:18
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-07200902/S20-07310901
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	207495	25.000	ng	0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1056146	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	528644	25.000	ng	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 (...)	13.64	65	447374	23.622	ng	0.00
Spiked Amount	25.000		Recovery	=	94.48%	
57) Toluene-d8 (SS2)	18.86	98	1150944	25.118	ng	0.00
Spiked Amount	25.000		Recovery	=	100.48%	
73) Bromofluorobenzene (SS3)	23.24	174	306340	26.180	ng	0.00
Spiked Amount	25.000		Recovery	=	104.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	397150	24.727	ng	100
3) Dichlorodifluoromethan...	4.83	85	635550	23.796	ng	99
4) Chloromethane	5.15	50	453590	26.875	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	260375	24.887	ng	98
6) Vinyl Chloride	5.59	62	431248	26.129	ng	98
7) 1,3-Butadiene	5.87	54	374047	31.641	ng	98
8) Bromomethane	6.35	94	273614	36.099	ng	99
9) Chloroethane	6.69	64	246290	27.134	ng	97
10) Ethanol	7.15	45	1215448	123.257	ng	100
11) Acetonitrile	7.38	41	708708	20.399	ng	100
12) Acrolein	7.57	56	210551	22.077	ng	98
13) Acetone	7.85	58	1259513	111.728	ng	97
14) Trichlorofluoromethane	8.01	101	614629	26.506	ng	100
15) 2-Propanol (Isopropanol)	8.38	45	1639705	43.999	ng	99
16) Acrylonitrile	8.57	53	497820	30.352	ng	99
17) 1,1-Dichloroethene	9.03	96	310280	29.696	ng	93
18) 2-Methyl-2-Propanol (t...	9.34	59	1766301	55.312	ng	98
19) Methylene Chloride	9.26	84	317656	26.180	ng	98
20) 3-Chloro-1-propene (Al...	9.43	41	596921	30.468	ng	99
21) Trichlorotrifluoroethane	9.68	151	242878	28.535	ng	100
22) Carbon Disulfide	9.63	76	1185465	28.386	ng	98
23) trans-1,2-Dichloroethene	10.69	61	536758	29.651	ng	99
24) 1,1-Dichloroethane	10.99	63	626914	27.802	ng	100
25) Methyl tert-Butyl Ether	11.23	73	988001	27.035	ng	99
26) Vinyl Acetate	11.29	86	232023	94.663	ng	# 94
27) 2-Butanone (MEK)	11.71	72	244752	29.962	ng	99
28) cis-1,2-Dichloroethene	12.25	61	508498	29.050	ng	99
29) Diisopropyl Ether	12.68	87	316984	32.016	ng	# 1
30) Ethyl Acetate	12.71	61	248217	58.562	ng	99
31) n-Hexane	12.59	57	594541	26.616	ng	99

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	541847	26.440	ng	100
34) Tetrahydrofuran (THF)	13.45	72	234041	24.295	ng	95
35) Ethyl tert-Butyl Ether	13.48	87	375069	24.759	ng	99
36) 1,2-Dichloroethane	13.80	62	490990	27.208	ng	98
38) 1,1,1-Trichloroethane	14.19	97	521245	26.595	ng	98
39) Isopropyl Acetate	14.87	61	456771	56.511	ng	# 86
40) 1-Butanol	14.93	56	723046	52.443	ng	80
41) Benzene	14.88	78	1276338	24.685	ng	99
42) Carbon Tetrachloride	15.11	117	465095	28.320	ng	98
43) Cyclohexane	15.31	84	1000496	54.769	ng	99
44) tert-Amyl Methyl Ether	15.89	73	989673	26.122	ng	99
45) 1,2-Dichloropropane	16.12	63	347675	27.694	ng	99
46) Bromodichloromethane	16.39	83	465949	29.201	ng	98
47) Trichloroethene	16.45	130	316970	29.394	ng	99
48) 1,4-Dioxane	16.55	88	266033	28.691	ng	# 71
49) 2,2,4-Trimethylpentane...	16.53	57	1568435	27.515	ng	96
50) Methyl Methacrylate	16.79	100	266630	60.760	ng	100
51) n-Heptane	16.89	71	366787	27.159	ng	99
52) cis-1,3-Dichloropropene	17.66	75	541590	27.780	ng	99
53) 4-Methyl-2-pentanone	17.79	58	350647	30.023	ng	98
54) trans-1,3-Dichloropropene	18.37	75	568419	31.884	ng	98
55) 1,1,2-Trichloroethane	18.61	97	299989	27.639	ng	98
58) Toluene	18.99	91	1326296	27.980	ng	99
59) 2-Hexanone	19.39	43	922020	28.929	ng	99
60) Dibromochloromethane	19.54	129	363307	32.695	ng	99
61) 1,2-Dibromoethane	19.87	107	346018	30.184	ng	99
62) n-Butyl Acetate	20.20	43	1069244	29.546	ng	99
63) n-Octane	20.28	57	322871	27.000	ng	96
64) Tetrachloroethene	20.47	166	306228	28.331	ng	99
65) Chlorobenzene	21.35	112	830316	28.987	ng	100
66) Ethylbenzene	21.83	91	1510329	28.156	ng	99
67) m- & p-Xylenes	22.06	91	2364755	54.690	ng	99
68) Bromoform	22.16	173	284337	31.297	ng	99
69) Styrene	22.52	104	922923	30.607	ng	99
70) o-Xylene	22.66	91	1212719	27.879	ng	98
71) n-Nonane	22.92	43	783849	25.792	ng	99
72) 1,1,2,2-Tetrachloroethane	22.64	83	553928	28.964	ng	100
74) Cumene	23.41	105	1485450	27.968	ng	99
75) alpha-Pinene	23.91	93	765795	27.237	ng	100
76) n-Propylbenzene	24.05	91	1894473	27.785	ng	100
77) 3-Ethyltoluene	24.18	105	1496922	29.775	ng	100
78) 4-Ethyltoluene	24.23	105	1487030	29.196	ng	99
79) 1,3,5-Trimethylbenzene	24.33	105	1242874	28.633	ng	99

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

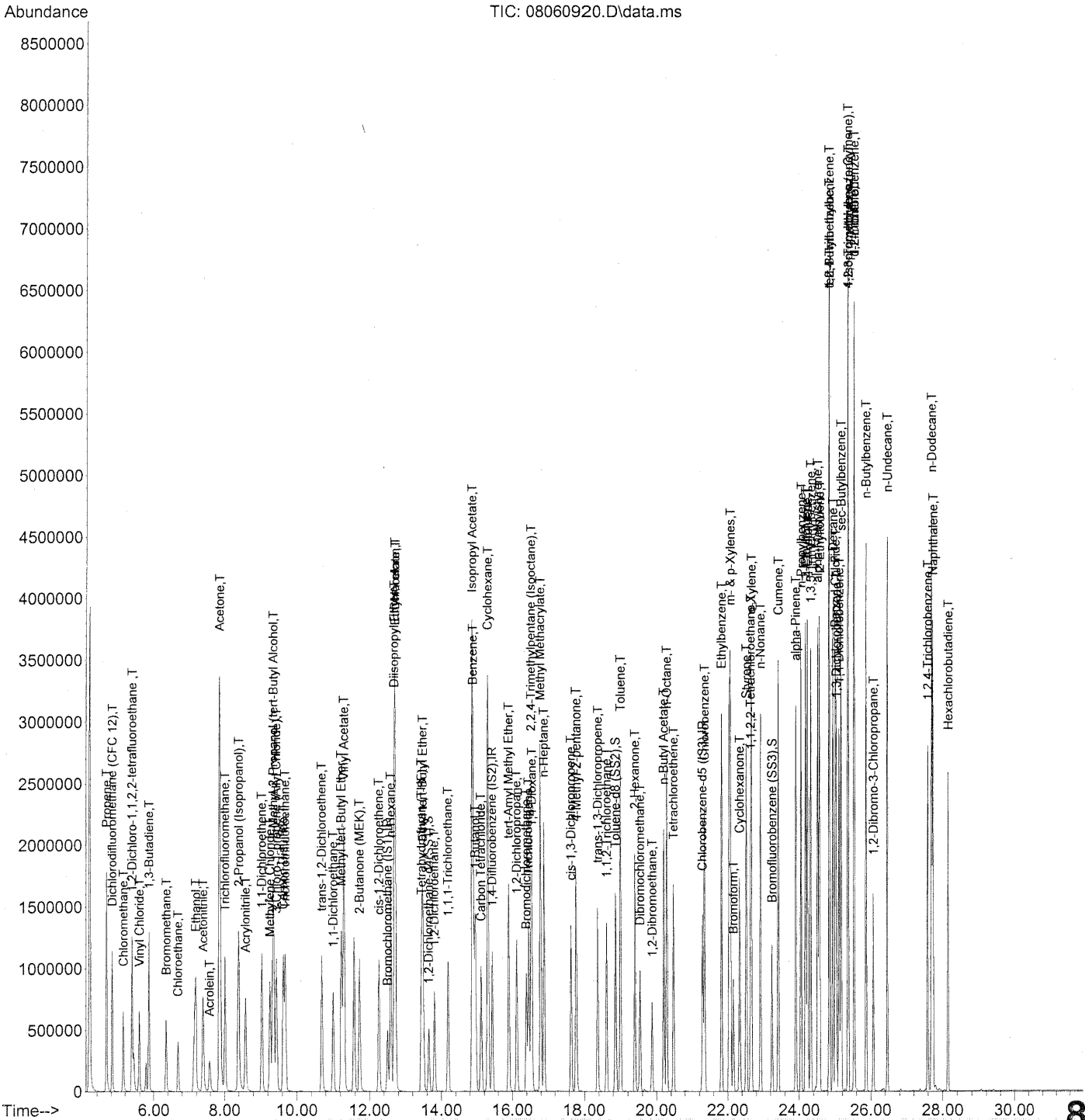
Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	682695	31.049	ng	99
81) 2-Ethyltoluene	24.57	105	1482611	28.115	ng	99
82) 1,2,4-Trimethylbenzene	24.84	105	1242291	28.679	ng	100
83) n-Decane	24.94	57	804056	28.011	ng	100
84) Benzyl Chloride	25.01	91	1277690	34.250	ng	100
85) 1,3-Dichlorobenzene	25.03	146	652647	31.489	ng	97
86) 1,4-Dichlorobenzene	25.11	146	668115	30.359	ng	99
87) sec-Butylbenzene	25.17	105	1672528	28.809	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1479621	28.648	ng	100
89) 1,2,3-Trimethylbenzene	25.36	105	1274600	28.960	ng	97
90) 1,2-Dichlorobenzene	25.54	146	611625	30.525	ng	99
91) d-Limonene	25.53	68	550190	29.286	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.07	157	236587	36.905	ng	94
93) n-Undecane	26.46	57	859590	29.294	ng	100
94) 1,2,4-Trichlorobenzene	27.59	180	463024	36.569	ng	100
95) Naphthalene	27.74	128	1702428	34.252	ng	100
96) n-Dodecane	27.70	57	872418	28.116	ng	99
97) Hexachlorobutadiene	28.15	225	262946	32.338	ng	99
98) Cyclohexanone	22.33	55	505166	23.356	ng	99
99) tert-Butylbenzene	24.83	119	1185720	28.423	ng	99
100) n-Butylbenzene	25.87	91	1445418	30.597	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	246064	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.44	114	1247385	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	628572	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.65	65	527588	23.491	ng	0.01
Spiked Amount	25.000		Recovery	=	93.96%	
57) Toluene-d8 (SS2)	18.86	98	1375416	25.245	ng	0.00
Spiked Amount	25.000		Recovery	=	100.96%	
73) Bromofluorobenzene (SS3)	23.25	174	373273	26.829	ng	0.00
Spiked Amount	25.000		Recovery	=	107.32%	

Target Compounds

						Qvalue
2) Propene	4.66	42	766697	40.253	ng	99
3) Dichlorodifluoromethan...	4.82	85	1206456	38.091	ng	99
4) Chloromethane	5.14	50	847645	42.351	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	513921	41.422	ng	99
6) Vinyl Chloride	5.59	62	848331	43.343	ng	98
7) 1,3-Butadiene	5.87	54	730169	52.084	ng	99
8) Bromomethane	6.35	94	491871	54.723	ng	99
9) Chloroethane	6.69	64	469575	43.625	ng	97
10) Ethanol	7.18	45	2326754	198.970	ng	100
11) Acetonitrile	7.39	41	1338822	32.495	ng	100
12) Acrolein	7.58	56	402755	35.611	ng	97
13) Acetone	7.86	58	2311019	172.872	ng	95
14) Trichlorofluoromethane	8.01	101	1159734	42.175	ng	100
15) 2-Propanol (Isopropanol)	8.40	45	2875108	65.056	ng	100
16) Acrylonitrile	8.58	53	940966	48.379	ng	98
17) 1,1-Dichloroethene	9.03	96	590850	47.685	ng	92
18) 2-Methyl-2-Propanol (t...	9.35	59	3260768	86.106	ng	99
19) Methylene Chloride	9.26	84	606273	42.136	ng	98
20) 3-Chloro-1-propene (Al...	9.44	41	1134104	48.813	ng	100
21) Trichlorotrifluoroethane	9.68	151	470831	46.646	ng	99
22) Carbon Disulfide	9.63	76	2221081	44.848	ng	98
23) trans-1,2-Dichloroethene	10.69	61	1011038	47.097	ng	98
24) 1,1-Dichloroethane	11.00	63	1184763	44.306	ng	99
25) Methyl tert-Butyl Ether	11.23	73	1897731	43.789	ng	99
26) Vinyl Acetate	11.30	86	408724	140.617	ng	100
27) 2-Butanone (MEK)	11.72	72	462913	47.786	ng	99
28) cis-1,2-Dichloroethene	12.26	61	959785	46.237	ng	98
29) Diisopropyl Ether	12.69	87	594750	50.655	ng	# 1
30) Ethyl Acetate	12.71	61	462477	92.010	ng	99
31) n-Hexane	12.59	57	1123585	42.416	ng	98

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WA 8/6/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.71	83	1005869	41.389	ng	99
34) Tetrahydrofuran (THF)	13.45	72	435280	38.102	ng	97
35) Ethyl tert-Butyl Ether	13.49	87	712110	39.639	ng	97
36) 1,2-Dichloroethane	13.81	62	932796	43.588	ng	98
38) 1,1,1-Trichloroethane	14.19	97	995605	43.010	ng	98
39) Isopropyl Acetate	14.87	61	855760	89.642	ng	# 86
40) 1-Butanol	14.96	56	1373976	84.377	ng	# 79
41) Benzene	14.89	78	2375406	38.898	ng	99
42) Carbon Tetrachloride	15.12	117	885200	45.637	ng	99
43) Cyclohexane	15.31	84	1889680	87.585	ng	98
44) tert-Amyl Methyl Ether	15.89	73	1834473	40.996	ng	99
45) 1,2-Dichloropropane	16.12	63	658137	44.386	ng	99
46) Bromodichloromethane	16.39	83	892711	47.368	ng	99
47) Trichloroethene	16.45	130	608434	47.772	ng	98
48) 1,4-Dioxane	16.55	88	507842	46.373	ng	# 75
49) 2,2,4-Trimethylpentane...	16.53	57	2886330	42.872	ng	97
50) Methyl Methacrylate	16.80	100	522781	100.868	ng	93
51) n-Heptane	16.89	71	684826	42.934	ng	99
52) cis-1,3-Dichloropropene	17.66	75	1039036	45.124	ng	99
53) 4-Methyl-2-pentanone	17.80	58	654840	47.472	ng	99
54) trans-1,3-Dichloropropene	18.37	75	1094561	51.984	ng	99
55) 1,1,2-Trichloroethane	18.61	97	577490	45.049	ng	97
58) Toluene	19.00	91	2525620	44.811	ng	98
59) 2-Hexanone	19.40	43	1735363	45.792	ng	99
60) Dibromochloromethane	19.54	129	703485	53.244	ng	98
61) 1,2-Dibromoethane	19.88	107	661208	48.510	ng	98
62) n-Butyl Acetate	20.20	43	2024198	47.042	ng	99
63) n-Octane	20.28	57	605076	42.555	ng	96
64) Tetrachloroethene	20.48	166	601947	46.837	ng	99
65) Chlorobenzene	21.36	112	1587286	46.604	ng	100
66) Ethylbenzene	21.83	91	2858886	44.823	ng	99
67) m- & p-Xylenes	22.07	91	4460386	86.756	ng	98
68) Bromoform	22.16	173	558777	51.727	ng	99
69) Styrene	22.52	104	1767058	49.286	ng	99
70) o-Xylene	22.66	91	2294449	44.361	ng	97
71) n-Nonane	22.92	43	1444078	39.962	ng	98
72) 1,1,2,2-Tetrachloroethane	22.64	83	1043616	45.894	ng	100
74) Cumene	23.42	105	2823456	44.709	ng	100
75) alpha-Pinene	23.91	93	1462451	43.746	ng	99
76) n-Propylbenzene	24.06	91	3551148	43.802	ng	99
77) 3-Ethyltoluene	24.18	105	2884181	48.248	ng	99
78) 4-Ethyltoluene	24.24	105	2788015	46.037	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	2362085	45.766	ng	98

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

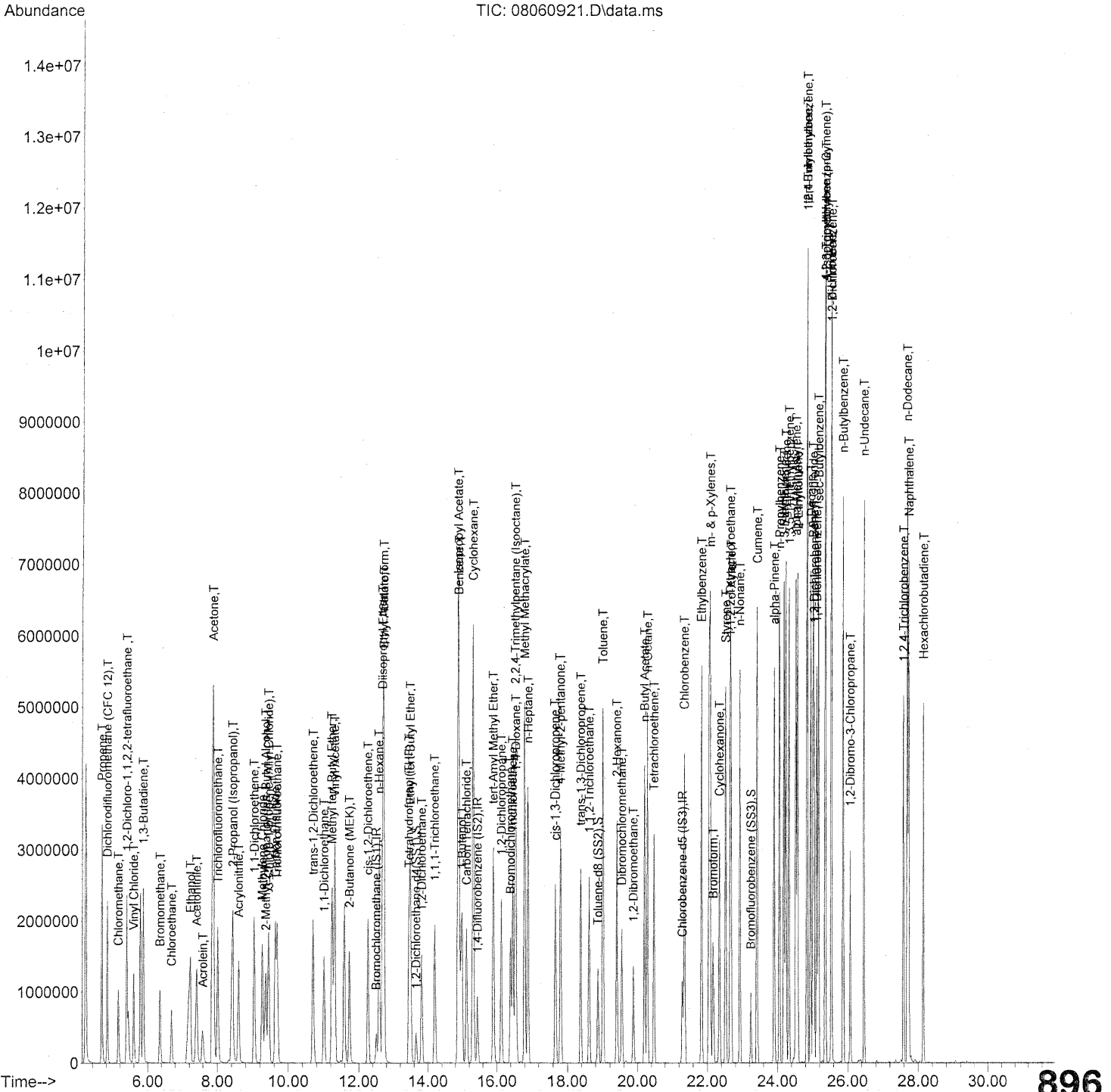
Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	1322010	50.567	ng	96
81) 2-Ethyltoluene	24.57	105	2813751	44.875	ng	99
82) 1,2,4-Trimethylbenzene	24.84	105	2342546	45.481	ng	99
83) n-Decane	24.94	57	1477979	43.303	ng	99
84) Benzyl Chloride	25.01	91	2418762	54.530	ng	99
85) 1,3-Dichlorobenzene	25.04	146	1268117	51.457	ng	97
86) 1,4-Dichlorobenzene	25.11	146	1304869	49.866	ng	99
87) sec-Butylbenzene	25.17	105	3150159	45.635	ng	99
88) 4-Isopropyltoluene (p-...	25.36	119	2788519	45.407	ng	99
89) 1,2,3-Trimethylbenzene	25.37	105	2406323	45.982	ng	97
90) 1,2-Dichlorobenzene	25.54	146	1179498	49.508	ng	100
91) d-Limonene	25.54	68	1035586	46.360	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	460773	60.449	ng	91
93) n-Undecane	26.46	57	1584968	45.428	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	910868	60.503	ng	99
95) Naphthalene	27.74	128	3285610	55.597	ng	99
96) n-Dodecane	27.70	57	1632372	44.244	ng	99
97) Hexachlorobutadiene	28.15	225	522278	54.021	ng	99
98) Cyclohexanone	22.34	55	957787	37.242	ng	98
99) tert-Butylbenzene	24.84	119	2258738	45.537	ng	99
100) n-Butylbenzene	25.87	91	2706705	48.188	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.51	130	204063	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.44	114	1040695	25.000	ng	0.01
56) Chlorobenzene-d5 (IS3)	21.30	82	521975	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.66	65	435176	23.365	ng	0.02
Spiked Amount	25.000		Recovery	=	93.44%	
57) Toluene-d8 (SS2)	18.86	98	1136569	25.121	ng	0.00
Spiked Amount	25.000		Recovery	=	100.48%	
73) Bromofluorobenzene (SS3)	23.25	174	310567	26.881	ng	0.00
Spiked Amount	25.000		Recovery	=	107.52%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	1483597	93.924	ng	99
3) Dichlorodifluoromethan...	4.83	85	2379344	90.583	ng	99
4) Chloromethane	5.15	50	1392812	83.913	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	1008644	98.029	ng	98
6) Vinyl Chloride	5.59	62	1677099	103.322	ng	98
7) 1,3-Butadiene	5.87	54	1425350	122.599	ng	98
8) Bromomethane	6.36	94	914093	122.628	ng	99
9) Chloroethane	6.70	64	916786	102.702	ng	98
10) Ethanol	7.23	45	4377562	451.390	ng	100
11) Acetonitrile	7.42	41	2583362	75.607	ng	100
12) Acrolein	7.59	56	784600	83.651	ng	96
13) Acetone	7.89	58	4244786	382.878	ng	87
14) Trichlorofluoromethane	8.02	101	2210255	96.921	ng	99
15) 2-Propanol (Isopropanol)	8.43	45	5177262	141.260	ng	100
16) Acrylonitrile	8.60	53	1796721	111.390	ng	97
17) 1,1-Dichloroethene	9.04	96	1160669	112.953	ng	90
18) 2-Methyl-2-Propanol (t...	9.37	59	2345913	74.698	ng	100
19) Methylene Chloride	9.27	84	1184348	99.253	ng	96
20) 3-Chloro-1-propene (Al...	9.45	41	2146772	111.416	ng	98
21) Trichlorotrifluoroethane	9.68	151	916963	109.542	ng	96
22) Carbon Disulfide	9.63	76	4236854	103.158	ng	98
23) trans-1,2-Dichloroethene	10.70	61	1929408	108.376	ng	96
24) 1,1-Dichloroethane	11.01	63	2255773	101.720	ng	100
25) Methyl tert-Butyl Ether	11.23	73	3661547	101.878	ng	99
26) Vinyl Acetate	11.31	86	640109	265.549	ng	# 93
27) 2-Butanone (MEK)	11.73	72	687553	85.584	ng	97
28) cis-1,2-Dichloroethene	12.27	61	1822976	105.896	ng	97
29) Diisopropyl Ether	12.70	87	1137931	116.867	ng	# 1
30) Ethyl Acetate	12.73	61	853386	204.726	ng	100
31) n-Hexane	12.59	57	2161223	98.379	ng	89

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WA 8/16/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.72	83	1880936	93.325	ng	100
34) Tetrahydrofuran (THF)	13.45	72	810456	85.544	ng	98
35) Ethyl tert-Butyl Ether	13.50	87	1363054	91.490	ng	96
36) 1,2-Dichloroethane	13.82	62	1754433	98.856	ng	97
38) 1,1,1-Trichloroethane	14.20	97	1846555	95.614	ng	98
39) Isopropyl Acetate	14.88	61	1588242	199.413	ng	95
40) 1-Butanol	14.99	56	2511497	184.865	ng	# 77
41) Benzene	14.90	78	4433680	87.021	ng	100
42) Carbon Tetrachloride	15.12	117	1694678	104.722	ng	99
43) Cyclohexane	15.32	84	3585086	199.167	ng	97
44) tert-Amyl Methyl Ether	15.90	73	3367820	90.211	ng	99
45) 1,2-Dichloropropane	16.13	63	1250257	101.067	ng	99
46) Bromodichloromethane	16.40	83	1669484	106.178	ng	99
47) Trichloroethene	16.47	130	1192304	112.208	ng	99
48) 1,4-Dioxane	16.56	88	940853	102.975	ng	# 76
49) 2,2,4-Trimethylpentane...	16.54	57	5320898	94.731	ng	97
50) Methyl Methacrylate	16.81	100	995395	230.200	ng	# 90
51) n-Heptane	16.91	71	1295628	97.360	ng	98
52) cis-1,3-Dichloropropene	17.67	75	1960789	102.068	ng	99
53) 4-Methyl-2-pentanone	17.80	58	1240802	107.815	ng	100
54) trans-1,3-Dichloropropene	18.38	75	2068198	117.733	ng	99
55) 1,1,2-Trichloroethane	18.62	97	1112067	103.980	ng	96
58) Toluene	19.00	91	4768847	101.891	ng	98
59) 2-Hexanone	19.41	43	3205631	101.863	ng	97
60) Dibromochloromethane	19.54	129	1359408	123.901	ng	98
61) 1,2-Dibromoethane	19.88	107	1277917	112.901	ng	99
62) n-Butyl Acetate	20.21	43	4015589	112.379	ng	98
63) n-Octane	20.29	57	1130161	95.715	ng	95
64) Tetrachloroethene	20.48	166	1184412	110.979	ng	99
65) Chlorobenzene	21.36	112	3039056	107.452	ng	100
66) Ethylbenzene	21.84	91	5357238	101.146	ng	97
67) m- & p-Xylenes	22.08	91	8307914	194.593	ng	96
68) Bromoform	22.17	173	1108833	123.609	ng	99
69) Styrene	22.53	104	3401279	114.239	ng	98
70) o-Xylene	22.67	91	4304194	100.212	ng	96
71) n-Nonane	22.93	43	2656292	88.519	ng	97
72) 1,1,2,2-Tetrachloroethane	22.65	83	1997850	105.799	ng	100
74) Cumene	23.42	105	5281477	100.712	ng	99
75) alpha-Pinene	23.91	93	2764527	99.583	ng	98
76) n-Propylbenzene	24.06	91	6477041	96.207	ng	97
77) 3-Ethyltoluene	24.19	105	5409334	108.970	ng	98
78) 4-Ethyltoluene	24.25	105	5142381	102.255	ng	95
79) 1,3,5-Trimethylbenzene	24.34	105	4445745	103.729	ng	96

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

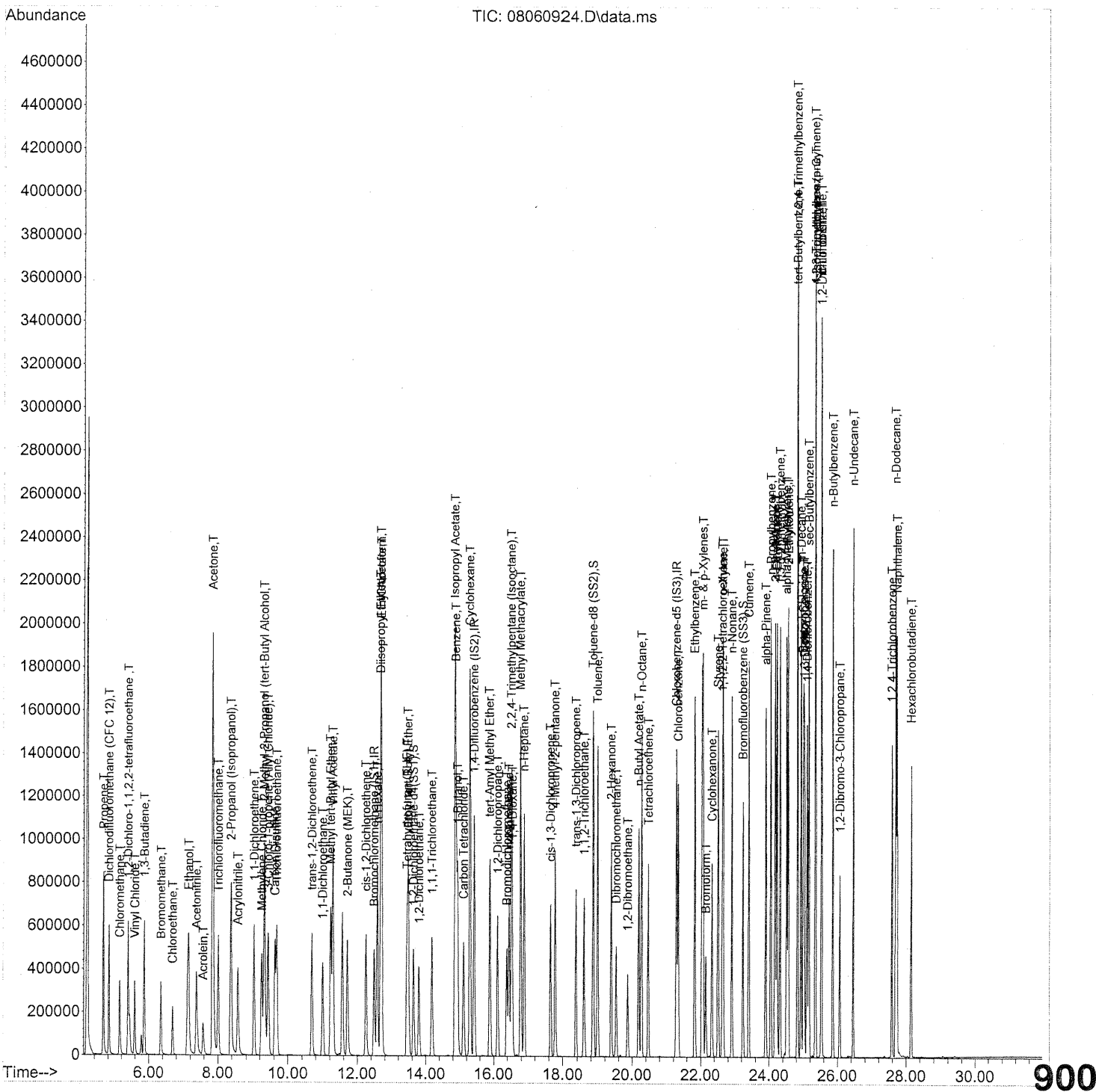
Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.53	118	2536487	116.834	ng	96
81) 2-Ethyltoluene	24.58	105	5229998	100.443	ng	97
82) 1,2,4-Trimethylbenzene	24.85	105	4275494	99.962	ng	98
83) n-Decane	24.95	57	2704263	95.412	ng	98
84) Benzyl Chloride	25.02	91	4499020	122.142	ng	97
85) 1,3-Dichlorobenzene	25.05	146	2490794	121.712	ng	97
86) 1,4-Dichlorobenzene	25.13	146	2542028	116.984	ng	98
87) sec-Butylbenzene	25.18	105	5783982	100.902	ng	98
88) 4-Isopropyltoluene (p-...	25.37	119	5010569	98.251	ng	99
89) 1,2,3-Trimethylbenzene	25.37	105	4359650	100.320	ng	95
90) 1,2-Dichlorobenzene	25.55	146	2206686	111.538	ng	100
91) d-Limonene	25.54	68	1890339	101.906	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	907634	143.389	ng	86
93) n-Undecane	26.47	57	2880684	99.426	ng	99
94) 1,2,4-Trichlorobenzene	27.60	180	1811250	144.878	ng	100
95) Naphthalene	27.74	128	6139171	125.097	ng	98
96) n-Dodecane	27.70	57	2961251	96.654	ng	98
97) Hexachlorobutadiene	28.15	225	1052824	131.135	ng	99
98) Cyclohexanone	22.35	55	1779789	83.337	ng	98
99) tert-Butylbenzene	24.85	119	4145655	100.646	ng	98
100) n-Butylbenzene	25.87	91	4947974	106.080	ng	97

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	238664	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1224547	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	614774	25.000	ng	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 (...)	13.64	65	510896	24.629	ng	-0.02
Spiked Amount	25.000		Recovery	=	98.52%	
57) Toluene-d8 (SS2)	18.86	98	1345950	25.056	ng	0.00
Spiked Amount	25.000		Recovery	=	100.24%	
73) Bromofluorobenzene (SS3)	23.24	174	365031	25.768	ng	0.00
Spiked Amount	25.000		Recovery	=	103.08%	
Target Compounds						
						Qvalue
2) Propene	4.67	42	372783	22.762	ng	99
3) Dichlorodifluoromethan...	4.83	85	610303	22.800	ng	99
4) Chloromethane	5.15	50	470357	26.153	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	266041	24.462	ng	98
6) Vinyl Chloride	5.59	62	440187	25.475	ng	98
7) 1,3-Butadiene	5.87	54	341677	27.589	ng	98
8) Bromomethane	6.35	94	287643	27.346	ng	99
9) Chloroethane	6.69	64	244762	24.371	ng	98
10) Ethanol	7.15	45	1296320	124.871	ng	100
11) Acetonitrile	7.38	41	687211	22.604	ng	100
12) Acrolein	7.58	56	203458	25.747	ng	98
13) Acetone	7.85	58	1224977	125.059	ng	98
14) Trichlorofluoromethane	8.01	101	586848	24.249	ng	100
15) 2-Propanol (Isopropanol)	8.38	45	1711755	44.469	ng	100
16) Acrylonitrile	8.57	53	479431	27.089	ng	99
17) 1,1-Dichloroethene	9.03	96	310330	27.616	ng	92
18) 2-Methyl-2-Propanol (t...	9.33	59	1753114	51.311	ng	98
19) Methylene Chloride	9.26	84	314029	23.873	ng	98
20) 3-Chloro-1-propene (Al...	9.43	41	592052	23.348	ng	99
21) Trichlorotrifluoroethane	9.68	151	249618	28.368	ng	98
22) Carbon Disulfide	9.63	76	1135664	24.487	ng	99
23) trans-1,2-Dichloroethene	10.69	61	514272	25.864	ng	97
24) 1,1-Dichloroethane	11.00	63	617936	25.628	ng	99
25) Methyl tert-Butyl Ether	11.23	73	950000	25.633	ng	100
26) Vinyl Acetate	11.30	86	177094	88.842	ng	# 94
27) 2-Butanone (MEK)	11.71	72	233396	26.390	ng	98
28) cis-1,2-Dichloroethene	12.26	61	497051	26.856	ng	98
29) Diisopropyl Ether	12.68	87	313290	26.470	ng	# 1
30) Ethyl Acetate	12.71	61	234351	50.865	ng	100
31) n-Hexane	12.59	57	571801	24.261	ng	99

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	539974	26.023	ng	100
34) Tetrahydrofuran (THF)	13.45	72	224798	23.845	ng	97
35) Ethyl tert-Butyl Ether	13.49	87	370406	24.192	ng	97
36) 1,2-Dichloroethane	13.80	62	484412	25.544	ng	98
38) 1,1,1-Trichloroethane	14.19	97	519036	24.987	ng	98
39) Isopropyl Acetate	14.87	61	451344	49.686	ng	# 86
40) 1-Butanol	14.94	56	736605	46.349	ng	81
41) Benzene	14.89	78	1265289	23.502	ng	99
42) Carbon Tetrachloride	15.11	117	450418	26.249	ng	100
43) Cyclohexane	15.31	84	972612	49.322	ng	98
44) tert-Amyl Methyl Ether	15.89	73	971883	24.038	ng	100
45) 1,2-Dichloropropane	16.12	63	344710	25.493	ng	100
46) Bromodichloromethane	16.39	83	451868	25.469	ng	99
47) Trichloroethene	16.45	130	316605	26.073	ng	98
48) 1,4-Dioxane	16.55	88	267355	25.984	ng	# 75
49) 2,2,4-Trimethylpentane...	16.53	57	1523182	24.019	ng	97
50) Methyl Methacrylate	16.79	100	272103	54.901	ng	95
51) n-Heptane	16.89	71	350866	24.283	ng	99
52) cis-1,3-Dichloropropene	17.66	75	537674	23.993	ng	99
53) 4-Methyl-2-pentanone	17.79	58	336616	26.015	ng	99
54) trans-1,3-Dichloropropene	18.37	75	569561	26.731	ng	99
55) 1,1,2-Trichloroethane	18.61	97	303093	25.641	ng	97
58) Toluene	18.99	91	1339186	25.367	ng	99
59) 2-Hexanone	19.39	43	883623	25.170	ng	98
60) Dibromochloromethane	19.54	129	352845	28.249	ng	98
61) 1,2-Dibromoethane	19.87	107	345699	26.105	ng	98
62) n-Butyl Acetate	20.20	43	981251	23.714	ng	100
63) n-Octane	20.28	57	319723	25.050	ng	97
64) Tetrachloroethene	20.48	166	313916	25.696	ng	99
65) Chlorobenzene	21.35	112	837660	25.646	ng	100
66) Ethylbenzene	21.83	91	1521202	25.207	ng	99
67) m- & p-Xylenes	22.07	91	2387430	48.904	ng	99
68) Bromoform	22.16	173	274178	26.436	ng	99
69) Styrene	22.52	104	931476	26.398	ng	100
70) o-Xylene	22.66	91	1225251	25.032	ng	98
71) n-Nonane	22.92	43	765549	23.539	ng	98
72) 1,1,2,2-Tetrachloroethane	22.64	83	551441	25.386	ng	100
74) Cumene	23.41	105	1481888	23.968	ng	99
75) alpha-Pinene	23.91	93	760032	23.981	ng	100
76) n-Propylbenzene	24.05	91	1878570	24.170	ng	100
77) 3-Ethyltoluene	24.18	105	1492441	25.257	ng	99
78) 4-Ethyltoluene	24.23	105	1464128	25.572	ng	99
79) 1,3,5-Trimethylbenzene	24.33	105	1255212	25.994	ng	99

902

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060924.D
Acq On : 6 Aug 2009 18:51
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-07200902/S20-07240917
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	680016	26.303	ng	97
81) 2-Ethyltoluene	24.57	105	1474596	24.747	ng	100
82) 1,2,4-Trimethylbenzene	24.84	105	1248319	25.349	ng	100
83) n-Decane	24.94	57	783579	24.473	ng	99
84) Benzyl Chloride	25.01	91	1232630	26.703	ng	100
85) 1,3-Dichlorobenzene	25.03	146	665342	26.696	ng	98
86) 1,4-Dichlorobenzene	25.11	146	674734	25.391	ng	98
87) sec-Butylbenzene	25.17	105	1664439	25.020	ng	100
88) 4-Isopropyltoluene (p-...	25.36	119	1472106	24.816	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	1264769	25.211	ng	97
90) 1,2-Dichlorobenzene	25.54	146	618612	26.180	ng	100
91) d-Limonene	25.53	68	540824	25.826	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	235275	28.950	ng	92
93) n-Undecane	26.46	57	834523	24.499	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	459074	28.256	ng	99
95) Naphthalene	27.74	128	1677315	25.080	ng	100
96) n-Dodecane	27.70	57	837508	21.164	ng	99
97) Hexachlorobutadiene	28.15	225	258900	25.054	ng	99
98) Cyclohexanone	22.34	55	491779	22.484	ng	98
99) tert-Butylbenzene	24.83	119	1186643	24.898	ng	99
100) n-Butylbenzene	25.87	91	1423055	25.944	ng	100

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

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08060924.D

Acq. Method File: TO15.M

Data File Path: J:\MS13\DATA\2009_08\06\

Name: 25ng TO-15 ICV STD

Operator: WA

Misc Info: S20-07200902/S20-07240917

Date Acquired: 8/6/09 18:51

Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.67	22.8	26.3	86.7	70	130	*
3)	Dichlorodifluoromethane (CFC	4.83	22.8	26.0	87.7	70	130	*
4)	Chloromethane	5.15	26.2	25.0	104.8	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro	5.40	24.5	26.0	94.2	70	130	*
6)	Vinyl Chloride	5.60	25.5	25.3	100.8	70	130	*
7)	1,3-Butadiene	5.87	27.6	26.8	103.0	70	130	*
8)	Bromomethane	6.35	27.3	25.8	105.8	70	130	*
9)	Chloroethane	6.69	24.4	25.5	95.7	70	130	*
10)	Ethanol	7.15	124.9	130.0	96.1	70	130	*
11)	Acetonitrile	7.38	22.6	26.0	86.9	70	130	*
12)	Acrolein	7.58	25.7	26.3	97.7	70	130	*
13)	Acetone	7.85	125.1	132.0	94.8	70	130	*
14)	Trichlorofluoromethane	8.01	24.2	26.3	92.0	70	130	*
15)	2-Propanol (Isopropanol)	8.38	44.5	48.0	92.7	70	130	*
16)	Acrylonitrile	8.57	27.1	25.8	105.0	70	130	*
17)	1,1-Dichloroethene	9.03	27.6	27.5	100.4	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.33	51.3	50.0	102.6	70	130	*
19)	Methylene Chloride	9.26	23.9	26.8	89.2	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.43	23.3	27.0	86.3	70	130	*
21)	Trichlorotrifluoroethane	9.68	28.4	27.5	103.3	70	130	*
22)	Carbon Disulfide	9.63	24.5	26.0	94.2	70	130	*
23)	trans-1,2-Dichloroethene	10.69	25.9	25.5	101.6	70	130	*
24)	1,1-Dichloroethane	11.00	25.6	26.5	96.6	70	130	*
25)	Methyl tert-Butyl Ether	11.23	25.6	26.3	97.3	70	130	*
26)	Vinyl Acetate	11.30	88.8	126.0	70.5	70	130	*
27)	2-Butanone (MEK)	11.71	26.4	26.8	98.5	70	130	*
28)	cis-1,2-Dichloroethene	12.26	26.9	27.0	99.6	70	130	*
29)	Diisopropyl Ether	12.68	26.5	26.5	100.0	70	130	*
30)	Ethyl Acetate	12.71	50.9	52.0	97.9	70	130	*
31)	n-Hexane	12.59	24.3	26.0	93.5	70	130	*
32)	Chloroform	12.70	26.0	27.5	94.5	70	130	*
34)	Tetrahydrofuran (THF)	13.45	23.8	26.5	89.8	70	130	*
35)	Ethyl tert-Butyl Ether	13.49	24.2	25.5	94.9	70	130	*
36)	1,2-Dichloroethane	13.80	25.5	26.3	97.0	70	130	*
38)	1,1,1-Trichloroethane	14.19	25.0	26.0	96.2	70	130	*
39)	Isopropyl Acetate	14.87	49.7	52.3	95.0	70	130	*
40)	1-Butanol	14.94	46.3	52.8	87.7	70	130	*
41)	Benzene	14.89	23.5	25.8	91.1	70	130	*
42)	Carbon Tetrachloride	15.11	26.2	26.3	99.6	70	130	*
43)	Cyclohexane	15.31	49.3	51.8	95.2	70	130	*
44)	tert-Amyl Methyl Ether	15.89	24.0	25.5	94.1	70	130	*
45)	1,2-Dichloropropane	16.12	25.5	26.0	98.1	70	130	*
46)	Bromodichloromethane	16.39	25.5	26.3	97.0	70	130	*
47)	Trichloroethene	16.45	26.1	25.8	101.2	70	130	*
48)	1,4-Dioxane	16.55	26.0	26.0	100.0	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.53	24.0	25.8	93.0	70	130	*
50)	Methyl Methacrylate	16.79	54.9	52.8	104.0	70	130	*

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08060924.D

Acq. Method File: TO15.M

Data File Path: J:\MS13\DATA\2009_08\06\

Name: 25ng TO-15 ICV STD

Operator: WA

Misc Info: S20-07200902/S20-07240917

Date Acquired: 8/6/09 18:51

Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	16.89	24.3	25.8	94.2	70	130	*
52)	cis-1,3-Dichloropropene	17.66	24.0	24.5	98.0	70	130	*
53)	4-Methyl-2-pentanone	17.79	26.0	26.8	97.0	70	130	*
54)	trans-1,3-Dichloropropene	18.37	26.7	27.0	98.9	70	130	*
55)	1,1,2-Trichloroethane	18.61	25.6	26.0	98.5	70	130	*
58)	Toluene	18.99	25.4	26.8	94.8	70	130	*
59)	2-Hexanone	19.39	25.2	27.0	93.3	70	130	*
60)	Dibromochloromethane	19.54	28.2	28.3	99.6	70	130	*
61)	1,2-Dibromoethane	19.87	26.1	26.3	99.2	70	130	*
62)	n-Butyl Acetate	20.20	23.7	27.5	86.2	70	130	*
63)	n-Octane	20.28	25.1	26.3	95.4	70	130	*
64)	Tetrachloroethene	20.48	25.7	25.3	101.6	70	130	*
65)	Chlorobenzene	21.35	25.6	26.5	96.6	70	130	*
66)	Ethylbenzene	21.83	25.2	26.3	95.8	70	130	*
67)	m- & p-Xylenes	22.07	48.9	51.5	95.0	70	130	*
68)	Bromoform	22.16	26.4	26.5	99.6	70	130	*
69)	Styrene	22.52	26.4	26.3	100.4	70	130	*
70)	o-Xylene	22.66	25.0	26.0	96.2	70	130	*
71)	n-Nonane	22.92	23.5	25.8	91.1	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.64	25.4	27.0	94.1	70	130	*
74)	Cumene	23.41	24.0	25.3	94.9	70	130	*
75)	alpha-Pinene	23.91	24.0	24.8	96.8	70	130	*
76)	n-Propylbenzene	24.05	24.2	25.3	95.7	70	130	*
77)	3-Ethyltoluene	24.18	25.3	26.3	96.2	70	130	*
78)	4-Ethyltoluene	24.23	25.6	26.3	97.3	70	130	*
79)	1,3,5-Trimethylbenzene	24.33	26.0	26.5	98.1	70	130	*
80)	alpha-Methylstyrene	24.51	26.3	26.0	101.2	70	130	*
81)	2-Ethyltoluene	24.57	24.7	26.0	95.0	70	130	*
82)	1,2,4-Trimethylbenzene	24.84	25.3	25.5	99.2	70	130	*
83)	n-Decane	24.94	24.5	26.3	93.2	70	130	*
84)	Benzyl Chloride	25.01	26.7	26.8	99.6	70	130	*
85)	1,3-Dichlorobenzene	25.03	26.7	26.0	102.7	70	130	*
86)	1,4-Dichlorobenzene	25.11	25.4	26.3	96.6	70	130	*
87)	sec-Butylbenzene	25.17	25.0	25.8	96.9	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.36	24.8	25.0	99.2	70	130	*
89)	1,2,3-Trimethylbenzene	25.36	25.2	26.0	96.9	70	130	*
90)	1,2-Dichlorobenzene	25.54	26.2	25.8	101.6	70	130	*
91)	d-Limonene	25.53	25.8	26.5	97.4	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.07	28.9	27.0	107.0	70	130	*
93)	n-Undecane	26.46	24.5	26.3	93.2	70	130	*
94)	1,2,4-Trichlorobenzene	27.59	28.3	27.3	103.7	70	130	*
95)	Naphthalene	27.74	25.1	25.0	100.4	70	130	*
96)	n-Dodecane	27.70	21.2	24.3	87.2	70	130	*
97)	Hexachlorobutadiene	28.15	25.1	26.8	93.7	70	130	*
98)	Cyclohexanone	22.34	22.5	24.8	90.7	70	130	*
99)	tert-Butylbenzene	24.83	24.9	26.5	94.0	70	130	*
100)	n-Butylbenzene	25.87	25.9	26.5	97.7	70	130	*

* Denotes Passing Criterion

CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140901.D
 Acq On : 14 Aug 2009 5:25
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 06:27:13 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1	IR Bromochloromethane (IS1)	1.000	1.000	0.0	118	-0.01
2	T Propene	1.716	1.532	10.7	101	0.00
3	T Dichlorodifluoromethane (CF	2.804	2.506	10.6	101	0.00
4	T Chloromethane	1.884	2.101	-11.5	113	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.139	1.155	-1.4	115	0.00
6	T Vinyl Chloride	1.810	1.861	-2.8	107	0.00
7	T 1,3-Butadiene	1.297	1.429	-10.2	112	0.00
8	T Bromomethane	1.102	1.245	-13.0	113	-0.01
9	T Chloroethane	1.052	1.003	4.7	101	-0.01
10	T Ethanol	1.087	1.017	6.4	106	-0.11
11	T Acetonitrile	3.185	2.688	15.6	98	-0.05
12	T Acrolein	0.828	0.819	1.1	103	-0.03
13	T Acetone	1.026	1.005	2.0	108	-0.06
14	T Trichlorofluoromethane	2.535	2.486	1.9	104	0.00
15	T 2-Propanol (Isopropanol)	4.032	3.681	8.7	104	-0.09
16	T Acrylonitrile	1.854	1.924	-3.8	100	-0.03
17	T 1,1-Dichloroethene	1.177	1.258	-6.9	109	0.00
18	T 2-Methyl-2-Propanol (tert-B	3.579	3.818	-6.7	107	-0.07
19	T Methylene Chloride	1.378	1.290	6.4	106	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.656	2.258	15.0	100	-0.02
21	T Trichlorotrifluoroethane	0.922	1.049	-13.8	116	0.00
22	T Carbon Disulfide	4.858	4.761	2.0	105	0.00
23	T trans-1,2-Dichloroethene	2.083	2.113	-1.4	102	-0.02
24	T 1,1-Dichloroethane	2.526	2.479	1.9	102	-0.02
25	T Methyl tert-Butyl Ether	3.882	3.899	-0.4	105	-0.03
26	T Vinyl Acetate	0.209	0.272	-30.1#	144	-0.02
27	T 2-Butanone (MEK)	0.926	0.942	-1.7	103	-0.04
28	T cis-1,2-Dichloroethene	1.939	1.907	1.7	100	-0.02
29	T Diisopropyl Ether	1.240	1.308	-5.5	108	-0.03
30	T Ethyl Acetate	0.483	0.501	-3.7	105	-0.04
31	T n-Hexane	2.469	2.270	8.1	102	-0.01
32	T Chloroform	2.174	2.225	-2.3	108	-0.02
33	S 1,2-Dichloroethane-d4 (SS1)	2.173	1.990	8.4	109	-0.02
34	T Tetrahydrofuran (THF)	0.988	0.928	6.1	107	-0.03
35	T Ethyl tert-Butyl Ether	1.604	1.559	2.8	105	-0.03
36	T 1,2-Dichloroethane	1.986	1.888	4.9	100	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	119	-0.01
38	T 1,1,1-Trichloroethane	0.424	0.415	2.1	105	-0.01

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140901.D
 Acq On : 14 Aug 2009 5:25
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 06:27:13 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
39 T	Isopropyl Acetate	0.185	0.182	1.6	105	-0.03
40 T	1-Butanol	0.324	0.290	10.5	104	-0.08
41 T	Benzene	1.099	1.015	7.6	106	-0.02
42 T	Carbon Tetrachloride	0.350	0.362	-3.4	105	-0.01
43 T	Cyclohexane	0.403	0.401	0.5	108	-0.01
44 T	tert-Amyl Methyl Ether	0.825	0.783	5.1	103	-0.03
45 T	1,2-Dichloropropane	0.276	0.269	2.5	102	-0.02
46 T	Bromodichloromethane	0.362	0.363	-0.3	106	-0.01
47 T	Trichloroethene	0.248	0.263	-6.0	110	-0.02
48 T	1,4-Dioxane	0.210	0.218	-3.8	110	-0.03
49 T	2,2,4-Trimethylpentane (Iso	1.295	1.223	5.6	102	-0.01
50 T	Methyl Methacrylate	0.101	0.113	-11.9	114	-0.03
51 T	n-Heptane	0.295	0.284	3.7	103	-0.02
52 T	cis-1,3-Dichloropropene	0.458	0.459	-0.2	106	-0.01
53 T	4-Methyl-2-pentanone	0.264	0.260	1.5	102	-0.03
54 T	trans-1,3-Dichloropropene	0.435	0.438	-0.7	106	-0.02
55 T	1,1,2-Trichloroethane	0.241	0.248	-2.9	109	-0.01
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	117	0.00
57 S	Toluene-d8 (SS2)	2.184	2.205	-1.0	118	0.00
58 T	Toluene	2.147	2.181	-1.6	110	-0.01
59 T	2-Hexanone	1.428	1.377	3.6	101	-0.03
60 T	Dibromochloromethane	0.508	0.567	-11.6	111	0.00
61 T	1,2-Dibromoethane	0.539	0.582	-8.0	110	-0.01
62 T	n-Butyl Acetate	1.683	1.581	6.1	100	-0.02
63 T	n-Octane	0.519	0.509	1.9	104	-0.01
64 T	Tetrachloroethene	0.497	0.566	-13.9	116	-0.01
65 T	Chlorobenzene	1.328	1.402	-5.6	112	0.00
66 T	Ethylbenzene	2.454	2.530	-3.1	110	0.00
67 T	m- & p-Xylenes	1.985	2.020	-1.8	110	-0.02
68 T	Bromoform	0.422	0.506	-19.9	113	-0.01
69 T	Styrene	1.435	1.534	-6.9	110	-0.01
70 T	o-Xylene	1.990	2.025	-1.8	109	-0.02
71 T	n-Nonane	1.323	1.207	8.8	101	0.00
72 T	1,1,2,2-Tetrachloroethane	0.883	0.917	-3.9	109	-0.02
73 S	Bromofluorobenzene (SS3)	0.576	0.573	0.5	115	0.00
74 T	Cumene	2.514	2.579	-2.6	110	-0.01
75 T	alpha-Pinene	1.289	1.331	-3.3	108	0.00
76 T	n-Propylbenzene	3.161	3.250	-2.8	109	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140901.D
 Acq On : 14 Aug 2009 5:25
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 06:27:13 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
77 T	3-Ethyltoluene	2.403	2.477	-3.1	111	-0.01
78 T	4-Ethyltoluene	2.328	2.448	-5.2	111	-0.01
79 T	1,3,5-Trimethylbenzene	1.964	2.046	-4.2	111	-0.01
80 T	alpha-Methylstyrene	1.051	1.156	-10.0	112	-0.02
81 T	2-Ethyltoluene	2.423	2.535	-4.6	111	-0.01
82 T	1,2,4-Trimethylbenzene	2.003	2.100	-4.8	110	-0.02
83 T	n-Decane	1.302	1.240	4.8	103	-0.01
84 T	Benzyl Chloride	1.877	2.025	-7.9	107	-0.02
85 T	1,3-Dichlorobenzene	1.013	1.111	-9.7	115	-0.01
86 T	1,4-Dichlorobenzene	1.081	1.171	-8.3	115	-0.01
87 T	sec-Butylbenzene	2.705	2.836	-4.8	111	-0.01
88 T	4-Isopropyltoluene (p-Cymen)	2.412	2.619	-8.6	113	-0.01
89 T	1,2,3-Trimethylbenzene	2.040	2.130	-4.4	110	-0.01
90 T	1,2-Dichlorobenzene	0.961	1.066	-10.9	114	-0.02
91 T	d-Limonene	0.852	0.873	-2.5	107	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.397	-20.3	114	0.00
93 T	n-Undecane	1.385	1.327	4.2	104	0.00
94 T	1,2,4-Trichlorobenzene	0.661	0.773	-16.9	115	-0.01
95 T	Naphthalene	2.720	3.013	-10.8	116	0.00
96 T	n-Dodecane	1.609	1.504	6.5	105	0.00
97 T	Hexachlorobutadiene	0.420	0.447	-6.4	115	0.00
98 T	Cyclohexanone	0.889	0.856	3.7	102	-0.03
99 T	tert-Butylbenzene	1.938	2.052	-5.9	113	-0.01
100 T	n-Butylbenzene	2.231	2.317	-3.9	108	0.00

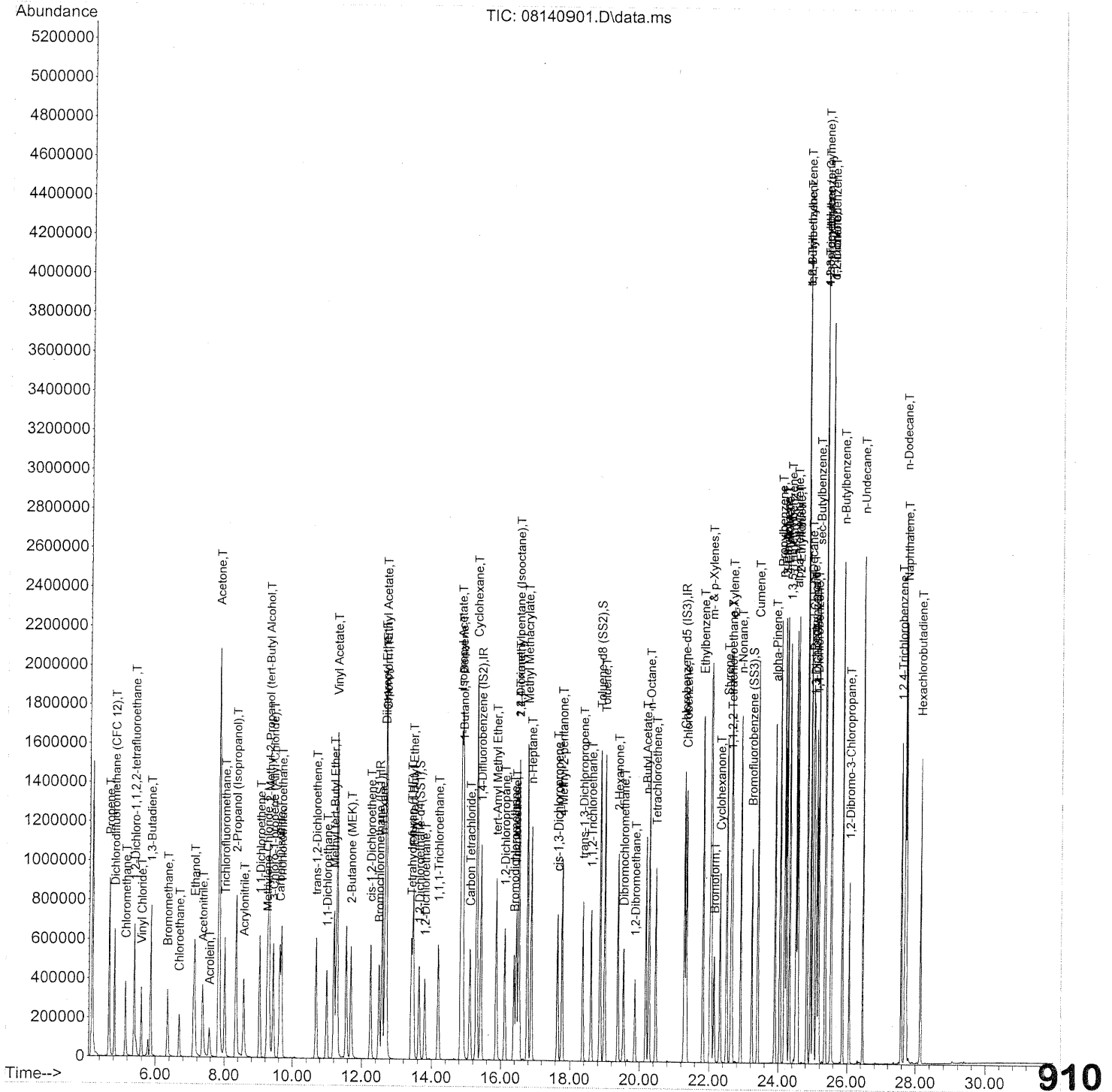
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\14\
Data File : 08140901.D
Acq On : 14 Aug 2009 5:25
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-07200902/S20-07310901
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 06:27:13 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140901.D
 Acq On : 14 Aug 2009 5:25
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 06:27:13 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	244396	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1255832	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	616664	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.64	65	486306	22.894	ng	-0.02
Spiked Amount	25.000					
				Recovery =		91.56%
57) Toluene-d8 (SS2)	18.86	98	1359532	25.231	ng	0.00
Spiked Amount	25.000					
				Recovery =		100.92%
73) Bromofluorobenzene (SS3)	23.24	174	353175	24.855	ng	0.00
Spiked Amount	25.000					
				Recovery =		99.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	401400	23.934	ng	98
3) Dichlorodifluoromethan...	4.83	85	644371	23.508	ng	99
4) Chloromethane	5.14	50	513434	27.879	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	299120	26.859	ng	98
6) Vinyl Chloride	5.59	62	460390	26.020	ng	97
7) 1,3-Butadiene	5.86	54	419122	33.048	ng	99
8) Bromomethane	6.35	94	310353	28.813	ng	98
9) Chloroethane	6.69	64	248159	24.130	ng	98
10) Ethanol	7.13	45	1292900	121.620	ng	100
11) Acetonitrile	7.37	41	691092	22.198	ng	100
12) Acrolein	7.57	56	216081	26.703	ng	97
13) Acetone	7.83	58	1355396	135.128	ng	94
14) Trichlorofluoromethane	8.01	101	639255	25.795	ng	100
15) 2-Propanol (Isopropanol)	8.34	45	1701946	43.178	ng	99
16) Acrylonitrile	8.57	53	498399	27.500	ng	99
17) 1,1-Dichloroethene	9.03	96	338079	29.380	ng	# 85
18) 2-Methyl-2-Propanol (t...	9.30	59	1884736	53.870	ng	98
19) Methylene Chloride	9.25	84	337917	25.086	ng	92
20) 3-Chloro-1-propene (Al...	9.43	41	595960	22.951	ng	96
21) Trichlorotrifluoroethane	9.68	151	282081	31.305	ng	95
22) Carbon Disulfide	9.63	76	1247258	26.263	ng	99
23) trans-1,2-Dichloroethene	10.68	61	547473	26.888	ng	92
24) 1,1-Dichloroethane	10.99	63	642217	26.010	ng	100
25) Methyl tert-Butyl Ether	11.20	73	1040557	27.418	ng	100
26) Vinyl Acetate	11.29	86	334594	163.917	ng	# 85
27) 2-Butanone (MEK)	11.69	72	253184	27.956	ng	97
28) cis-1,2-Dichloroethene	12.25	61	508883	26.850	ng	93
29) Diisopropyl Ether	12.67	87	342758	28.281	ng	# 1
30) Ethyl Acetate	12.69	61	260982	55.317	ng	100
31) n-Hexane	12.58	57	605749	25.099	ng	100

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140901.D
 Acq On : 14 Aug 2009 5:25
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 06:27:13 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	582831	27.430	ng	99
34) Tetrahydrofuran (THF)	13.42	72	249435	25.838	ng	98
35) Ethyl tert-Butyl Ether	13.47	87	393091	25.071	ng	95
36) 1,2-Dichloroethane	13.80	62	489040	25.183	ng	98
38) 1,1,1-Trichloroethane	14.19	97	547894	25.719	ng	97
39) Isopropyl Acetate	14.85	61	477433	51.249	ng	# 91
40) 1-Butanol	14.91	56	755030	46.325	ng	# 74
41) Benzene	14.88	78	1350749	24.464	ng	99
42) Carbon Tetrachloride	15.11	117	490370	27.866	ng	99
43) Cyclohexane	15.31	84	1082788	53.542	ng	94
44) tert-Amyl Methyl Ether	15.87	73	1022568	24.661	ng	98
45) 1,2-Dichloropropane	16.12	63	355867	25.663	ng	100
46) Bromodichloromethane	16.39	83	491896	27.034	ng	99
47) Trichloroethene	16.45	130	350006	28.105	ng	98
48) 1,4-Dioxane	16.53	88	293002	27.767	ng	80
49) 2,2,4-Trimethylpentane...	16.53	57	1597137	24.558	ng	95
50) Methyl Methacrylate	16.78	100	303130	59.637	ng	90
51) n-Heptane	16.89	71	377859	25.500	ng	98
52) cis-1,3-Dichloropropene	17.65	75	572301	24.902	ng	99
53) 4-Methyl-2-pentanone	17.77	58	359118	27.062	ng	98
54) trans-1,3-Dichloropropene	18.36	75	604427	27.660	ng	99
55) 1,1,2-Trichloroethane	18.61	97	327557	27.020	ng	97
58) Toluene	18.99	91	1452569	27.430	ng	99
59) 2-Hexanone	19.38	43	934351	26.533	ng	97
60) Dibromochloromethane	19.54	129	402521	32.127	ng	99
61) 1,2-Dibromoethane	19.87	107	380393	28.637	ng	99
62) n-Butyl Acetate	20.18	43	1072282	25.834	ng	99
63) n-Octane	20.28	57	336205	26.261	ng	93
64) Tetrachloroethene	20.47	166	355758	29.032	ng	99
65) Chlorobenzene	21.35	112	933409	28.490	ng	100
66) Ethylbenzene	21.83	91	1653884	27.321	ng	98
67) m- & p-Xylenes	22.06	91	2591047	52.912	ng	98
68) Bromoform	22.16	173	322223	30.973	ng	99
69) Styrene	22.51	104	1014134	28.652	ng	98
70) o-Xylene	22.66	91	1323381	26.954	ng	97
71) n-Nonane	22.92	43	788750	24.178	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	605925	27.809	ng	99
74) Cumene	23.41	105	1641044	26.460	ng	100
75) alpha-Pinene	23.91	93	830426	26.122	ng	99
76) n-Propylbenzene	24.05	91	2068272	26.529	ng	99
77) 3-Ethyltoluene	24.18	105	1668254	28.146	ng	100
78) 4-Ethyltoluene	24.23	105	1648706	28.707	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	1377763	28.444	ng	98

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Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140901.D
 Acq On : 14 Aug 2009 5:25
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 06:27:13 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	764416	29.477	ng	98
81) 2-Ethyltoluene	24.57	105	1644702	27.517	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1372395	27.783	ng	99
83) n-Decane	24.94	57	825763	25.712	ng	98
84) Benzyl Chloride	25.01	91	1373498	29.663	ng	98
85) 1,3-Dichlorobenzene	25.03	146	748012	29.921	ng	98
86) 1,4-Dichlorobenzene	25.11	146	765233	28.708	ng	99
87) sec-Butylbenzene	25.17	105	1853555	27.777	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1666634	28.009	ng	98
89) 1,2,3-Trimethylbenzene	25.36	105	1407815	27.977	ng	96
90) 1,2-Dichlorobenzene	25.53	146	696584	29.389	ng	99
91) d-Limonene	25.53	68	588133	27.999	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	269466	33.055	ng	86
93) n-Undecane	26.46	57	893918	26.162	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	534142	32.776	ng	99
95) Naphthalene	27.74	128	1969436	29.358	ng	100
96) n-Dodecane	27.70	57	920285	23.184	ng	99
97) Hexachlorobutadiene	28.15	225	303276	29.258	ng	99
98) Cyclohexanone	22.32	55	517073	23.568	ng	97
99) tert-Butylbenzene	24.83	119	1341474	28.060	ng	99
100) n-Butylbenzene	25.87	91	1560401	28.360	ng	99

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

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170901.D
 Acq On : 17 Aug 2009 3:45
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 06:11:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	107	-0.01
2 T	Propene	1.716	1.513	11.8	91	0.00
3 T	Dichlorodifluoromethane (CF	2.804	2.472	11.8	91	0.00
4 T	Chloromethane	1.884	1.995	-5.9	97	0.00
5 T	1,2-Dichloro-1,1,2,2-tetra	1.139	1.064	6.6	96	0.00
6 T	Vinyl Chloride	1.810	1.729	4.5	90	0.00
7 T	1,3-Butadiene	1.297	1.253	3.4	89	0.00
8 T	Bromomethane	1.102	1.198	-8.7	99	0.00
9 T	Chloroethane	1.052	0.949	9.8	86	-0.01
10 T	Ethanol	1.087	0.979	9.9	93	-0.11
11 T	Acetonitrile	3.185	2.629	17.5	87	-0.05
12 T	Acrolein	0.828	0.769	7.1	87	-0.03
13 T	Acetone	1.026	0.959	6.5	93	-0.06
14 T	Trichlorofluoromethane	2.535	2.469	2.6	94	0.00
15 T	2-Propanol (Isopropanol)	4.032	3.468	14.0	89	-0.10
16 T	Acrylonitrile	1.854	1.884	-1.6	89	-0.04
17 T	1,1-Dichloroethene	1.177	1.204	-2.3	95	0.00
18 T	2-Methyl-2-Propanol (tert-B	3.579	3.691	-3.1	94	-0.08
19 T	Methylene Chloride	1.378	1.243	9.8	93	-0.02
20 T	3-Chloro-1-propene (Allyl C	2.656	2.181	17.9	87	-0.02
21 T	Trichlorotrifluoroethane	0.922	1.003	-8.8	101	0.00
22 T	Carbon Disulfide	4.858	4.623	4.8	93	0.00
23 T	trans-1,2-Dichloroethene	2.083	2.054	1.4	90	-0.02
24 T	1,1-Dichloroethane	2.526	2.454	2.9	92	-0.02
25 T	Methyl tert-Butyl Ether	3.882	3.708	4.5	91	-0.03
26 T	Vinyl Acetate	0.209	0.251	-20.1	121	-0.03
27 T	2-Butanone (MEK)	0.926	0.930	-0.4	93	-0.05
28 T	cis-1,2-Dichloroethene	1.939	1.891	2.5	90	-0.02
29 T	Diisopropyl Ether	1.240	1.282	-3.4	96	-0.03
30 T	Ethyl Acetate	0.483	0.498	-3.1	95	-0.04
31 T	n-Hexane	2.469	2.134	13.6	87	-0.01
32 T	Chloroform	2.174	2.260	-4.0	99	-0.02
33 S	1,2-Dichloroethane-d4 (SS1)	2.173	2.038	6.2	101	-0.02
34 T	Tetrahydrofuran (THF)	0.988	0.893	9.6	93	-0.04
35 T	Ethyl tert-Butyl Ether	1.604	1.522	5.1	93	-0.03
36 T	1,2-Dichloroethane	1.986	1.903	4.2	91	-0.02
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	108	-0.01
38 T	1,1,1-Trichloroethane	0.424	0.413	2.6	95	-0.01

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170901.D
 Acq On : 17 Aug 2009 3:45
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 06:11:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
39 T	Isopropyl Acetate	0.185	0.178	3.8	93	-0.03
40 T	1-Butanol	0.324	0.277	14.5	90	-0.09
41 T	Benzene	1.099	1.009	8.2	95	-0.02
42 T	Carbon Tetrachloride	0.350	0.361	-3.1	95	-0.01
43 T	Cyclohexane	0.403	0.387	4.0	95	-0.01
44 T	tert-Amyl Methyl Ether	0.825	0.763	7.5	91	-0.03
45 T	1,2-Dichloropropane	0.276	0.266	3.6	92	-0.02
46 T	Bromodichloromethane	0.362	0.365	-0.8	96	-0.02
47 T	Trichloroethene	0.248	0.263	-6.0	100	-0.02
48 T	1,4-Dioxane	0.210	0.215	-2.4	99	-0.03
49 T	2,2,4-Trimethylpentane (Iso	1.295	1.205	6.9	91	-0.01
50 T	Methyl Methacrylate	0.101	0.108	-6.9	98	-0.03
51 T	n-Heptane	0.295	0.281	4.7	92	-0.02
52 T	cis-1,3-Dichloropropene	0.458	0.451	1.5	94	-0.01
53 T	4-Methyl-2-pentanone	0.264	0.259	1.9	92	-0.03
54 T	trans-1,3-Dichloropropene	0.435	0.430	1.1	95	-0.02
55 T	1,1,2-Trichloroethane	0.241	0.244	-1.2	98	-0.02
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	103	0.00
57 S	Toluene-d8 (SS2)	2.184	2.272	-4.0	108	-0.01
58 T	Toluene	2.147	2.179	-1.5	97	-0.01
59 T	2-Hexanone	1.428	1.388	2.8	90	-0.03
60 T	Dibromochloromethane	0.508	0.576	-13.4	99	0.00
61 T	1,2-Dibromoethane	0.539	0.591	-9.6	99	-0.01
62 T	n-Butyl Acetate	1.683	1.603	4.8	90	-0.02
63 T	n-Octane	0.519	0.513	1.2	93	-0.01
64 T	Tetrachloroethene	0.497	0.562	-13.1	102	-0.01
65 T	Chlorobenzene	1.328	1.405	-5.8	100	0.00
66 T	Ethylbenzene	2.454	2.552	-4.0	98	-0.01
67 T	m- & p-Xylenes	1.985	2.024	-2.0	97	-0.02
68 T	Bromoform	0.422	0.515	-22.0	102	-0.01
69 T	Styrene	1.435	1.537	-7.1	97	-0.01
70 T	o-Xylene	1.990	2.041	-2.6	97	-0.02
71 T	n-Nonane	1.323	1.220	7.8	90	0.00
72 T	1,1,2,2-Tetrachloroethane	0.883	0.940	-6.5	99	-0.02
73 S	Bromofluorobenzene (SS3)	0.576	0.615	-6.8	109	0.00
74 T	Cumene	2.514	2.597	-3.3	98	-0.01
75 T	alpha-Pinene	1.289	1.343	-4.2	97	-0.01
76 T	n-Propylbenzene	3.161	3.305	-4.6	98	0.00

915

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170901.D
 Acq On : 17 Aug 2009 3:45
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 06:11:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.403	2.503	-4.2	100	-0.01
78 T	4-Ethyltoluene	2.328	2.410	-3.5	96	-0.02
79 T	1,3,5-Trimethylbenzene	1.964	2.029	-3.3	97	-0.01
80 T	alpha-Methylstyrene	1.051	1.154	-9.8	99	-0.02
81 T	2-Ethyltoluene	2.423	2.531	-4.5	98	-0.01
82 T	1,2,4-Trimethylbenzene	2.003	2.121	-5.9	99	-0.02
83 T	n-Decane	1.302	1.241	4.7	91	-0.01
84 T	Benzyl Chloride	1.877	2.061	-9.8	97	-0.02
85 T	1,3-Dichlorobenzene	1.013	1.103	-8.9	101	-0.02
86 T	1,4-Dichlorobenzene	1.081	1.166	-7.9	101	-0.02
87 T	sec-Butylbenzene	2.705	2.843	-5.1	98	-0.01
88 T	4-Isopropyltoluene (p-Cymen)	2.412	2.637	-9.3	100	-0.01
89 T	1,2,3-Trimethylbenzene	2.040	2.153	-5.5	99	-0.01
90 T	1,2-Dichlorobenzene	0.961	1.077	-12.1	102	-0.02
91 T	d-Limonene	0.852	0.882	-3.5	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.405	-22.7	103	0.00
93 T	n-Undecane	1.385	1.340	3.2	93	0.00
94 T	1,2,4-Trichlorobenzene	0.661	0.783	-18.5	103	-0.01
95 T	Naphthalene	2.720	3.000	-10.3	102	-0.01
96 T	n-Dodecane	1.609	1.530	4.9	95	0.00
97 T	Hexachlorobutadiene	0.420	0.446	-6.2	102	0.00
98 T	Cyclohexanone	0.889	0.865	2.7	91	-0.03
99 T	tert-Butylbenzene	1.938	2.050	-5.8	100	-0.01
100 T	n-Butylbenzene	2.231	2.369	-6.2	98	-0.01

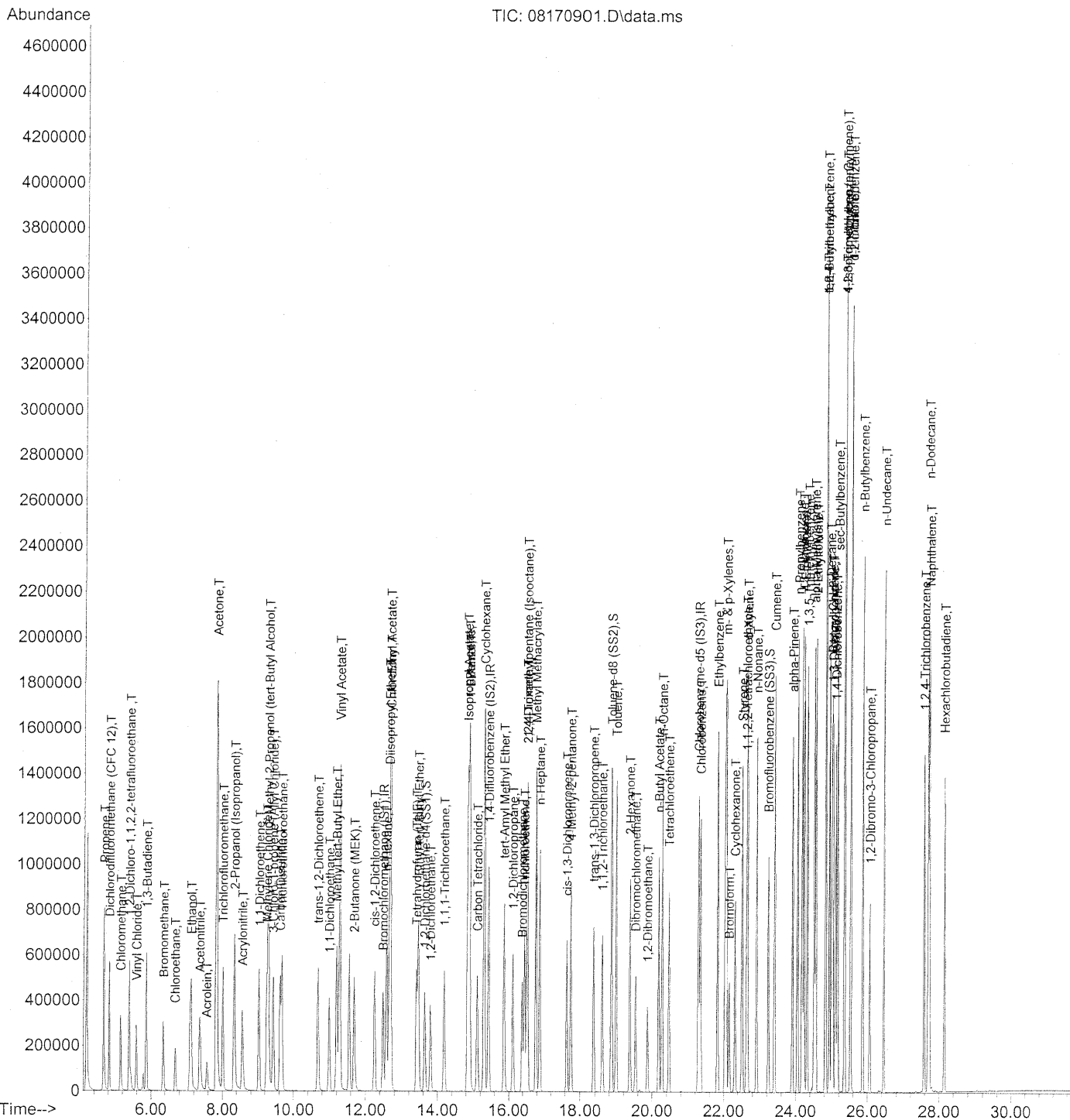
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170901.D
 Acq On : 17 Aug 2009 3:45
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 06:11:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170901.D
 Acq On : 17 Aug 2009 3:45
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 06:11:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.50	130	221706	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1137728	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	544972	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.64	65	451818	23.447	ng	-0.02
Spiked Amount	25.000		Recovery	=	93.80%	
57) Toluene-d8 (SS2)	18.85	98	1238113	26.001	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.00%	
73) Bromofluorobenzene (SS3)	23.24	174	335228	26.695	ng	0.00
Spiked Amount	25.000		Recovery	=	106.80%	

Target Compounds

						Qvalue
2) Propene	4.66	42	359532	23.632	ng	99
3) Dichlorodifluoromethan...	4.82	85	576635	23.190	ng	99
4) Chloromethane	5.14	50	442211	26.469	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	250100	24.755	ng	98
6) Vinyl Chloride	5.59	62	388032	24.175	ng	97
7) 1,3-Butadiene	5.86	54	333272	28.968	ng	100
8) Bromomethane	6.35	94	270947	27.729	ng	98
9) Chloroethane	6.69	64	213000	22.831	ng	98
10) Ethanol	7.12	45	1128665	117.037	ng	100
11) Acetonitrile	7.37	41	613197	21.712	ng	99
12) Acrolein	7.56	56	184099	25.079	ng	96
13) Acetone	7.83	58	1174111	129.035	ng	96
14) Trichlorofluoromethane	8.01	101	575866	25.616	ng	100
15) 2-Propanol (Isopropanol)	8.34	45	1454781	40.684	ng	100
16) Acrylonitrile	8.56	53	442742	26.929	ng	99
17) 1,1-Dichloroethene	9.03	96	293659	28.132	ng	# 86
18) 2-Methyl-2-Propanol (t...	9.29	59	1653128	52.085	ng	98
19) Methylene Chloride	9.25	84	295416	24.175	ng	92
20) 3-Chloro-1-propene (Al...	9.43	41	522109	22.164	ng	96
21) Trichlorotrifluoroethane	9.68	151	244702	29.936	ng	97
22) Carbon Disulfide	9.63	76	1098746	25.503	ng	99
23) trans-1,2-Dichloroethene	10.68	61	482635	26.130	ng	92
24) 1,1-Dichloroethane	10.99	63	576809	25.752	ng	99
25) Methyl tert-Butyl Ether	11.20	73	897686	26.074	ng	100
26) Vinyl Acetate	11.28	86	280734	151.606	ng	# 88
27) 2-Butanone (MEK)	11.68	72	226727	27.597	ng	96
28) cis-1,2-Dichloroethene	12.25	61	457712	26.622	ng	92
29) Diisopropyl Ether	12.66	87	304644	27.708	ng	# 1
30) Ethyl Acetate	12.69	61	235221	54.959	ng	98
31) n-Hexane	12.58	57	516548	23.593	ng	100

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170901.D
 Acq On : 17 Aug 2009 3:45
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 06:11:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	537105	27.865	ng	100
34) Tetrahydrofuran (THF)	13.41	72	217665	24.855	ng	97
35) Ethyl tert-Butyl Ether	13.47	87	348342	24.491	ng	95
36) 1,2-Dichloroethane	13.80	62	447224	25.387	ng	97
38) 1,1,1-Trichloroethane	14.19	97	493983	25.596	ng	98
39) Isopropyl Acetate	14.84	61	422752	50.090	ng	# 90
40) 1-Butanol	14.89	56	653748	44.274	ng	# 72
41) Benzene	14.88	78	1216880	24.327	ng	99
42) Carbon Tetrachloride	15.11	117	443733	27.833	ng	99
43) Cyclohexane	15.31	84	946848	51.680	ng	94
44) tert-Amyl Methyl Ether	15.87	73	902424	24.023	ng	98
45) 1,2-Dichloropropane	16.12	63	318728	25.370	ng	99
46) Bromodichloromethane	16.38	83	449006	27.239	ng	99
47) Trichloroethene	16.45	130	316958	28.094	ng	99
48) 1,4-Dioxane	16.52	88	262443	27.453	ng	80
49) 2,2,4-Trimethylpentane...	16.53	57	1425338	24.191	ng	96
50) Methyl Methacrylate	16.77	100	261828	56.859	ng	94
51) n-Heptane	16.89	71	338840	25.240	ng	97
52) cis-1,3-Dichloropropene	17.65	75	509431	24.467	ng	99
53) 4-Methyl-2-pentanone	17.77	58	324184	26.966	ng	99
54) trans-1,3-Dichloropropene	18.36	75	538515	27.202	ng	99
55) 1,1,2-Trichloroethane	18.60	97	292573	26.639	ng	98
58) Toluene	18.99	91	1282372	27.402	ng	99
59) 2-Hexanone	19.37	43	832097	26.738	ng	97
60) Dibromochloromethane	19.54	129	361488	32.647	ng	99
61) 1,2-Dibromoethane	19.87	107	341421	29.084	ng	98
62) n-Butyl Acetate	20.18	43	960680	26.190	ng	99
63) n-Octane	20.28	57	299426	26.465	ng	94
64) Tetrachloroethene	20.47	166	312274	28.836	ng	99
65) Chlorobenzene	21.35	112	827152	28.568	ng	100
66) Ethylbenzene	21.82	91	1474146	27.556	ng	99
67) m- & p-Xylenes	22.06	91	2294443	53.019	ng	98
68) Bromoform	22.16	173	289780	31.519	ng	99
69) Styrene	22.51	104	898180	28.715	ng	99
70) o-Xylene	22.66	91	1178740	27.167	ng	97
71) n-Nonane	22.92	43	704852	24.448	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	548883	28.505	ng	99
74) Cumene	23.41	105	1460712	26.651	ng	100
75) alpha-Pinene	23.90	93	740777	26.367	ng	99
76) n-Propylbenzene	24.05	91	1858945	26.981	ng	99
77) 3-Ethyltoluene	24.18	105	1489599	28.438	ng	100
78) 4-Ethyltoluene	24.23	105	1434161	28.257	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	1207744	28.214	ng	99

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Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170901.D
 Acq On : 17 Aug 2009 3:45
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 17 06:11:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	674190	29.418	ng	96
81) 2-Ethyltoluene	24.57	105	1451054	27.471	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1225129	28.065	ng	99
83) n-Decane	24.94	57	730532	25.739	ng	98
84) Benzyl Chloride	25.01	91	1235336	30.189	ng	99
85) 1,3-Dichlorobenzene	25.03	146	656352	29.709	ng	97
86) 1,4-Dichlorobenzene	25.11	146	673751	28.601	ng	99
87) sec-Butylbenzene	25.17	105	1642547	27.853	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1483104	28.204	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	1257680	28.281	ng	96
90) 1,2-Dichlorobenzene	25.53	146	622425	29.715	ng	100
91) d-Limonene	25.53	68	524931	28.278	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	242821	33.705	ng	86
93) n-Undecane	26.46	57	797639	26.415	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	477635	33.164	ng	99
95) Naphthalene	27.73	128	1732763	29.228	ng	100
96) n-Dodecane	27.70	57	826890	23.572	ng	99
97) Hexachlorobutadiene	28.15	225	267438	29.195	ng	99
98) Cyclohexanone	22.32	55	461801	23.817	ng	97
99) tert-Butylbenzene	24.83	119	1184428	28.034	ng	99
100) n-Butylbenzene	25.86	91	1409938	28.997	ng	99

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

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR Bromochloromethane (IS1)	1.000	1.000	0.0	139	-0.01
2	T Propene	1.716	1.496	12.8	117	0.00
3	T Dichlorodifluoromethane (CF	2.804	2.387	14.9	114	0.00
4	T Chloromethane	1.884	1.945	-3.2	124	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.139	1.057	7.2	124	0.00
6	T Vinyl Chloride	1.810	1.676	7.4	114	0.00
7	T 1,3-Butadiene	1.297	1.239	4.5	115	0.00
8	T Bromomethane	1.102	1.184	-7.4	128	0.00
9	T Chloroethane	1.052	0.926	12.0	110	-0.01
10	T Ethanol	1.087	0.945	13.1	117	-0.11
11	T Acetonitrile	3.185	2.515	21.0	108	-0.05
12	T Acrolein	0.828	0.775	6.4	115	-0.03
13	T Acetone	1.026	0.941	8.3	119	-0.06
14	T Trichlorofluoromethane	2.535	2.349	7.3	116	0.00
15	T 2-Propanol (Isopropanol)	4.032	3.206	20.5	107	-0.09
16	T Acrylonitrile	1.854	1.785	3.7	110	-0.03
17	T 1,1-Dichloroethene	1.177	1.148	2.5	118	0.00
18	T 2-Methyl-2-Propanol (tert-B	3.579	3.560	0.5	118	-0.07
19	T Methylene Chloride	1.378	1.210	12.2	118	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.656	2.105	20.7	110	-0.02
21	T Trichlorotrifluoroethane	0.922	0.985	-6.8	129	0.00
22	T Carbon Disulfide	4.858	4.362	10.2	114	0.00
23	T trans-1,2-Dichloroethene	2.083	1.994	4.3	114	-0.01
24	T 1,1-Dichloroethane	2.526	2.372	6.1	116	-0.01
25	T Methyl tert-Butyl Ether	3.882	3.590	7.5	115	-0.03
26	T Vinyl Acetate	0.209	0.255	-22.0	160	-0.02
27	T 2-Butanone (MEK)	0.926	0.888	4.1	115	-0.05
28	T cis-1,2-Dichloroethene	1.939	1.809	6.7	112	-0.01
29	T Diisopropyl Ether	1.240	1.235	0.4	121	-0.03
30	T Ethyl Acetate	0.483	0.474	1.9	118	-0.04
31	T n-Hexane	2.469	2.069	16.2	110	0.00
32	T Chloroform	2.174	2.168	0.3	124	-0.01
33	S 1,2-Dichloroethane-d4 (SS1)	2.173	1.996	8.1	129	-0.02
34	T Tetrahydrofuran (THF)	0.988	0.860	13.0	117	-0.04
35	T Ethyl tert-Butyl Ether	1.604	1.492	7.0	119	-0.03
36	T 1,2-Dichloroethane	1.986	1.829	7.9	114	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	138	-0.01
38	T 1,1,1-Trichloroethane	0.424	0.405	4.5	119	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
39 T	Isopropyl Acetate	0.185	0.173	6.5	116	-0.03
40 T	1-Butanol	0.324	0.267	17.6	112	-0.09
41 T	Benzene	1.099	0.977	11.1	119	-0.01
42 T	Carbon Tetrachloride	0.350	0.355	-1.4	120	0.00
43 T	Cyclohexane	0.403	0.382	5.2	120	-0.01
44 T	tert-Amyl Methyl Ether	0.825	0.759	8.0	116	-0.03
45 T	1,2-Dichloropropane	0.276	0.260	5.8	115	-0.02
46 T	Bromodichloromethane	0.362	0.356	1.7	120	-0.01
47 T	Trichloroethene	0.248	0.256	-3.2	125	-0.01
48 T	1,4-Dioxane	0.210	0.209	0.5	123	-0.03
49 T	2,2,4-Trimethylpentane (Iso	1.295	1.169	9.7	113	-0.01
50 T	Methyl Methacrylate	0.101	0.106	-5.0	124	-0.03
51 T	n-Heptane	0.295	0.273	7.5	115	-0.01
52 T	cis-1,3-Dichloropropene	0.458	0.441	3.7	118	-0.01
53 T	4-Methyl-2-pentanone	0.264	0.250	5.3	114	-0.03
54 T	trans-1,3-Dichloropropene	0.435	0.422	3.0	119	-0.02
55 T	1,1,2-Trichloroethane	0.241	0.238	1.2	122	-0.01
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	130	0.00
57 S	Toluene-d8 (SS2)	2.184	2.302	-5.4	138	0.00
58 T	Toluene	2.147	2.190	-2.0	123	-0.01
59 T	2-Hexanone	1.428	1.341	6.1	110	-0.03
60 T	Dibromochloromethane	0.508	0.566	-11.4	124	0.00
61 T	1,2-Dibromoethane	0.539	0.576	-6.9	122	-0.01
62 T	n-Butyl Acetate	1.683	1.560	7.3	111	-0.03
63 T	n-Octane	0.519	0.505	2.7	116	-0.01
64 T	Tetrachloroethene	0.497	0.568	-14.3	130	-0.01
65 T	Chlorobenzene	1.328	1.386	-4.4	124	0.00
66 T	Ethylbenzene	2.454	2.499	-1.8	121	0.00
67 T	m- & p-Xylenes	1.985	1.993	-0.4	121	-0.02
68 T	Bromoform	0.422	0.512	-21.3	128	-0.01
69 T	Styrene	1.435	1.527	-6.4	122	-0.01
70 T	o-Xylene	1.990	2.023	-1.7	122	-0.02
71 T	n-Nonane	1.323	1.190	10.1	111	0.00
72 T	1,1,2,2-Tetrachloroethane	0.883	0.922	-4.4	123	-0.02
73 S	Bromofluorobenzene (SS3)	0.576	0.624	-8.3	140	0.00
74 T	Cumene	2.514	2.603	-3.5	125	-0.01
75 T	alpha-Pinene	1.289	1.319	-2.3	120	-0.01
76 T	n-Propylbenzene	3.161	3.271	-3.5	123	0.00

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10/1 8/19/09

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

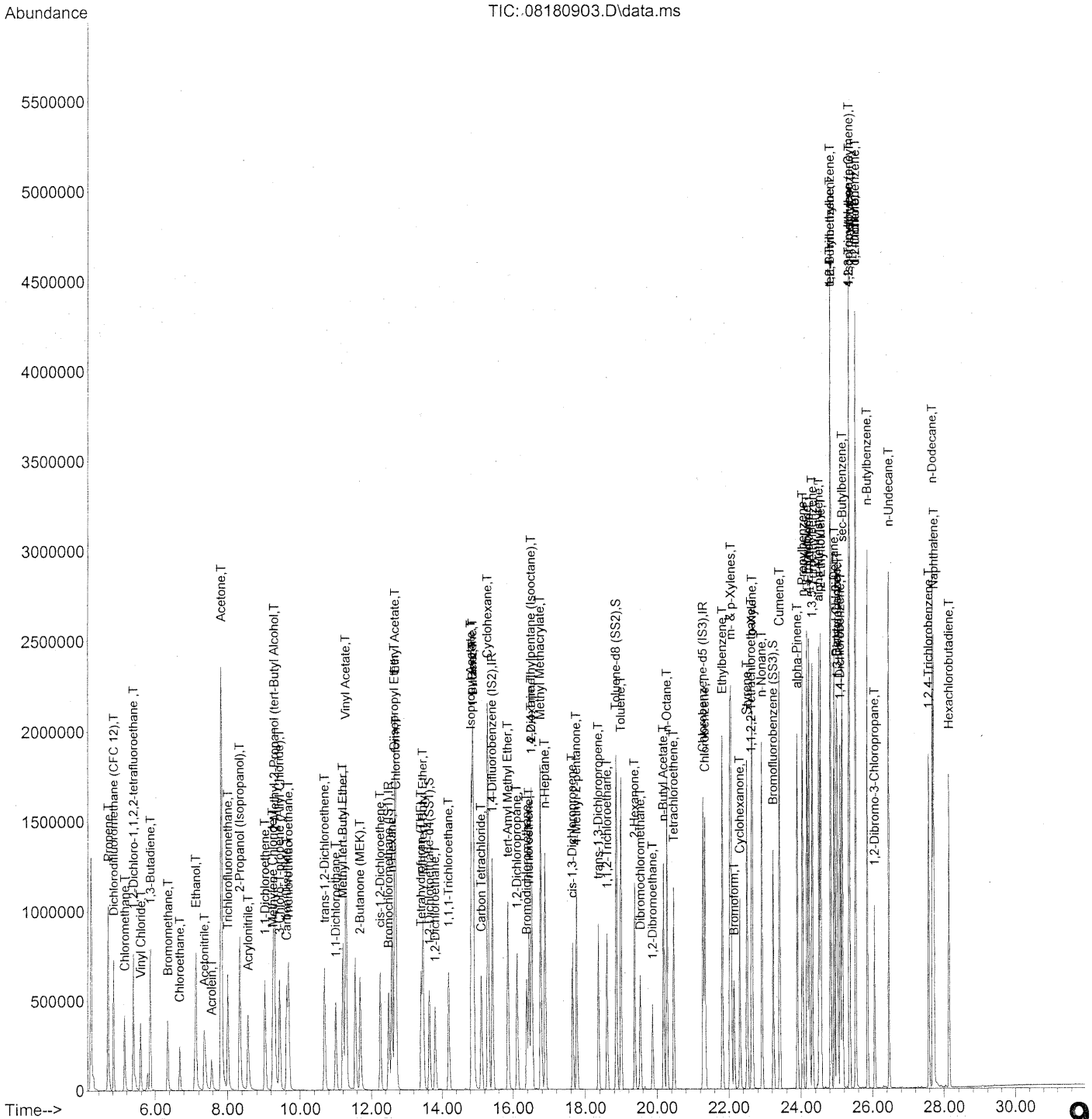
Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T 3-Ethyltoluene	2.403	2.489	-3.6	125	-0.01
78 T 4-Ethyltoluene	2.328	2.420	-4.0	123	-0.02
79 T 1,3,5-Trimethylbenzene	1.964	2.036	-3.7	123	-0.01
80 T alpha-Methylstyrene	1.051	1.145	-8.9	124	-0.02
81 T 2-Ethyltoluene	2.423	2.501	-3.2	122	-0.01
82 T 1,2,4-Trimethylbenzene	2.003	2.119	-5.8	125	-0.02
83 T n-Decane	1.302	1.225	5.9	113	-0.01
84 T Benzyl Chloride	1.877	2.037	-8.5	121	-0.02
85 T 1,3-Dichlorobenzene	1.013	1.105	-9.1	127	-0.02
86 T 1,4-Dichlorobenzene	1.081	1.167	-8.0	128	-0.02
87 T sec-Butylbenzene	2.705	2.842	-5.1	124	-0.01
88 T 4-Isopropyltoluene (p-Cymen	2.412	2.649	-9.8	127	-0.01
89 T 1,2,3-Trimethylbenzene	2.040	2.146	-5.2	124	-0.01
90 T 1,2-Dichlorobenzene	0.961	1.079	-12.3	129	-0.02
91 T d-Limonene	0.852	0.878	-3.1	120	0.00
92 T 1,2-Dibromo-3-Chloropropane	0.330	0.393	-19.1	126	0.00
93 T n-Undecane	1.385	1.309	5.5	115	0.00
94 T 1,2,4-Trichlorobenzene	0.661	0.774	-17.1	129	-0.01
95 T Naphthalene	2.720	2.955	-8.6	127	-0.01
96 T n-Dodecane	1.609	1.501	6.7	118	0.00
97 T Hexachlorobutadiene	0.420	0.446	-6.2	129	0.00
98 T Cyclohexanone	0.889	0.851	4.3	114	-0.03
99 T tert-Butylbenzene	1.938	2.052	-5.9	126	-0.01
100 T n-Butylbenzene	2.231	2.343	-5.0	122	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2009_08\18\
Data File : 08180903.D
Acq On : 18 Aug 2009 14:32
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-08140906/S20-07310901
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	288901	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1459937	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	689590	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.64	65	576679	22.966	ng	-0.02
Spiked Amount	25.000		Recovery	=	91.88%	
57) Toluene-d8 (SS2)	18.86	98	1587418	26.345	ng	0.00
Spiked Amount	25.000		Recovery	=	105.40%	
73) Bromofluorobenzene (SS3)	23.24	174	429983	27.060	ng	0.00
Spiked Amount	25.000		Recovery	=	108.24%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	463284	23.369	ng	100
3) Dichlorodifluoromethan...	4.82	85	725417	22.388	ng	99
4) Chloromethane	5.14	50	562022	25.816	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	323539	24.576	ng	98
6) Vinyl Chloride	5.59	62	489878	23.421	ng	97
7) 1,3-Butadiene	5.86	54	429369	28.641	ng	99
8) Bromomethane	6.35	94	349021	27.412	ng	99
9) Chloroethane	6.69	64	270757	22.271	ng	98
10) Ethanol	7.13	45	1420198	113.015	ng	99
11) Acetonitrile	7.37	41	764442	20.772	ng	100
12) Acrolein	7.57	56	241937	25.292	ng	100
13) Acetone	7.83	58	1501329	126.620	ng	95
14) Trichlorofluoromethane	8.01	101	713875	24.369	ng	100
15) 2-Propanol (Isopropanol)	8.34	45	1752312	37.607	ng	98
16) Acrylonitrile	8.57	53	546673	25.517	ng	98
17) 1,1-Dichloroethene	9.03	96	364779	26.817	ng	# 86
18) 2-Methyl-2-Propanol (t...	9.30	59	2077344	50.228	ng	98
19) Methylene Chloride	9.25	84	374689	23.531	ng	93
20) 3-Chloro-1-propene (Al...	9.43	41	656904	21.401	ng	96
21) Trichlorotrifluoroethane	9.68	151	313157	29.400	ng	96
22) Carbon Disulfide	9.63	76	1350893	24.063	ng	99
23) trans-1,2-Dichloroethene	10.69	61	610745	25.375	ng	92
24) 1,1-Dichloroethane	11.00	63	726500	24.891	ng	100
25) Methyl tert-Butyl Ether	11.20	73	1132631	25.246	ng	99
26) Vinyl Acetate	11.29	86	370668	153.616	ng	# 83
27) 2-Butanone (MEK)	11.68	72	282174	26.357	ng	95
28) cis-1,2-Dichloroethene	12.26	61	570792	25.477	ng	92
29) Diisopropyl Ether	12.67	87	382483	26.697	ng	# 43
30) Ethyl Acetate	12.69	61	291787	52.319	ng	99
31) n-Hexane	12.59	57	652612	22.875	ng	100

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Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.71	83	671566	26.737	ng	100
34) Tetrahydrofuran (THF)	13.41	72	273222	23.942	ng	96
35) Ethyl tert-Butyl Ether	13.47	87	444891	24.004	ng	93
36) 1,2-Dichloroethane	13.80	62	560027	24.396	ng	97
38) 1,1,1-Trichloroethane	14.19	97	621744	25.105	ng	97
39) Isopropyl Acetate	14.84	61	528541	48.803	ng	# 89
40) 1-Butanol	14.90	56	806925	42.587	ng	# 73
41) Benzene	14.89	78	1512527	23.564	ng	99
42) Carbon Tetrachloride	15.12	117	559691	27.358	ng	99
43) Cyclohexane	15.31	84	1200029	51.043	ng	94
44) tert-Amyl Methyl Ether	15.87	73	1152719	23.914	ng	98
45) 1,2-Dichloropropane	16.12	63	398594	24.725	ng	99
46) Bromodichloromethane	16.39	83	560822	26.513	ng	99
47) Trichloroethene	16.45	130	396662	27.399	ng	100
48) 1,4-Dioxane	16.52	88	327870	26.727	ng	81
49) 2,2,4-Trimethylpentane...	16.53	57	1775572	23.484	ng	96
50) Methyl Methacrylate	16.77	100	330329	55.903	ng	94
51) n-Heptane	16.89	71	422828	24.545	ng	97
52) cis-1,3-Dichloropropene	17.65	75	638377	23.894	ng	98
53) 4-Methyl-2-pentanone	17.77	58	401403	26.020	ng	100
54) trans-1,3-Dichloropropene	18.36	75	676920	26.647	ng	99
55) 1,1,2-Trichloroethane	18.61	97	365485	25.934	ng	97
58) Toluene	18.99	91	1630957	27.542	ng	99
59) 2-Hexanone	19.37	43	1017439	25.837	ng	97
60) Dibromochloromethane	19.54	129	449255	32.065	ng	99
61) 1,2-Dibromoethane	19.87	107	420704	28.322	ng	97
62) n-Butyl Acetate	20.18	43	1183108	25.490	ng	99
63) n-Octane	20.28	57	373269	26.073	ng	93
64) Tetrachloroethene	20.47	166	399584	29.160	ng	99
65) Chlorobenzene	21.35	112	1032114	28.171	ng	100
66) Ethylbenzene	21.83	91	1826983	26.989	ng	98
67) m- & p-Xylenes	22.06	91	2858446	52.199	ng	98
68) Bromoform	22.16	173	364304	31.315	ng	98
69) Styrene	22.51	104	1128923	28.523	ng	99
70) o-Xylene	22.66	91	1478554	26.930	ng	97
71) n-Nonane	22.92	43	869677	23.839	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	681521	27.971	ng	100
74) Cumene	23.41	105	1852171	26.706	ng	100
75) alpha-Pinene	23.90	93	920650	25.897	ng	99
76) n-Propylbenzene	24.05	91	2328185	26.705	ng	98
77) 3-Ethyltoluene	24.18	105	1874582	28.283	ng	100
78) 4-Ethyltoluene	24.23	105	1822269	28.374	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	1533465	28.311	ng	98

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	846276	29.183	ng	95
81) 2-Ethyltoluene	24.57	105	1814026	27.141	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1549032	28.043	ng	99
83) n-Decane	24.94	57	912318	25.403	ng	98
84) Benzyl Chloride	25.01	91	1544913	29.837	ng	98
85) 1,3-Dichlorobenzene	25.03	146	831773	29.753	ng	97
86) 1,4-Dichlorobenzene	25.11	146	853369	28.629	ng	99
87) sec-Butylbenzene	25.17	105	2077107	27.836	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1885493	28.336	ng	98
89) 1,2,3-Trimethylbenzene	25.36	105	1586239	28.189	ng	96
90) 1,2-Dichlorobenzene	25.53	146	789044	29.770	ng	99
91) d-Limonene	25.53	68	661121	28.145	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	298475	32.741	ng	87
93) n-Undecane	26.46	57	985463	25.791	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	597547	32.789	ng	98
95) Naphthalene	27.73	128	2159727	28.790	ng	100
96) n-Dodecane	27.70	57	1026491	23.125	ng	99
97) Hexachlorobutadiene	28.15	225	338591	29.211	ng	99
98) Cyclohexanone	22.31	55	575126	23.441	ng	97
99) tert-Butylbenzene	24.83	119	1499695	28.052	ng	99
100) n-Butylbenzene	25.86	91	1764253	28.674	ng	99

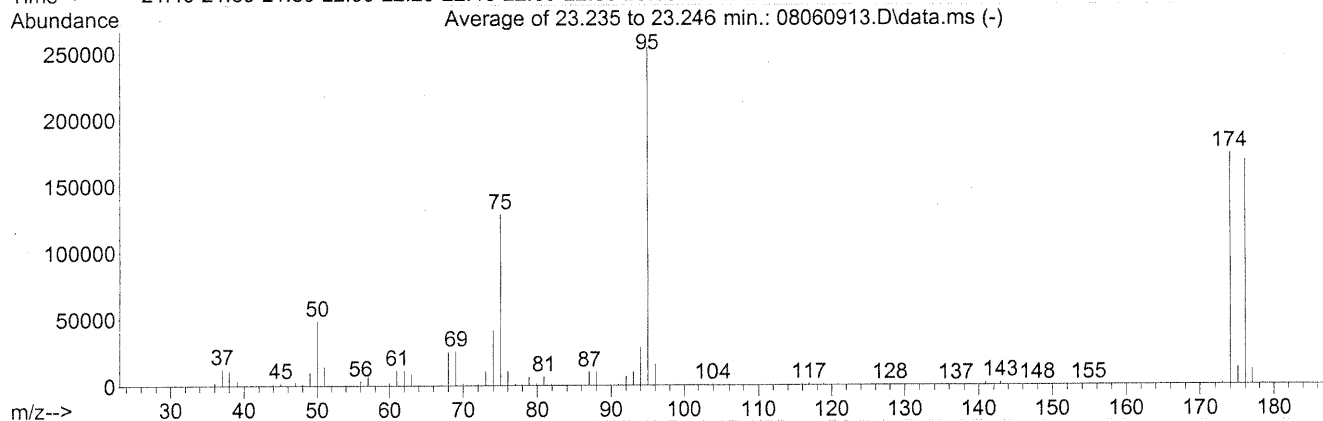
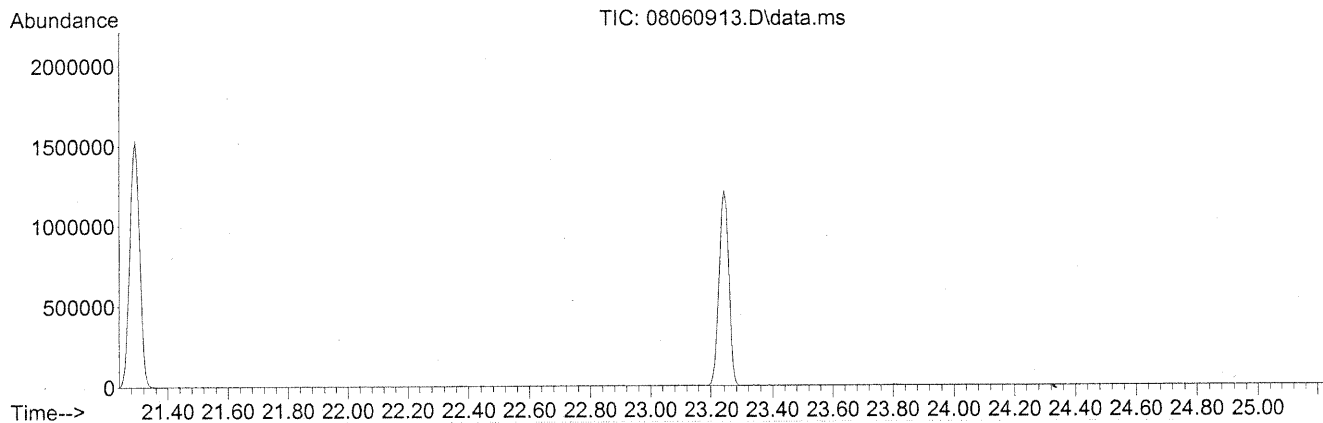
(#) = qualifier out of range (m) = manual integration (+) = signals summed

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060913.D
 Acq On : 6 Aug 2009 11:15
 Operator : WA
 Sample : 25ng BFB STD
 Misc : S20-07200902
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 07:59:49 2009



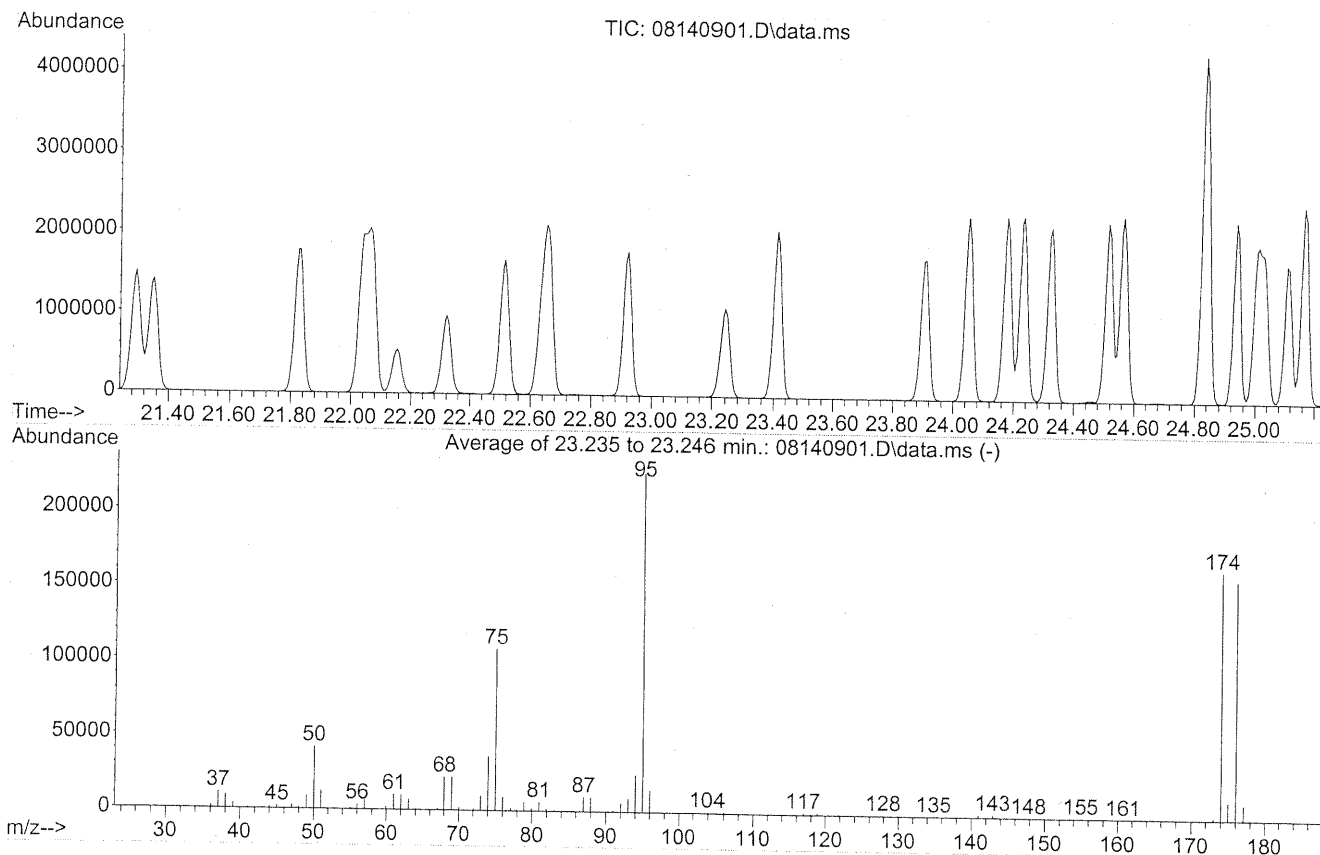
AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.2	48845	PASS
75	95	30	66	50.6	128627	PASS
95	95	100	100	100.0	254165	PASS
96	95	5	9	6.3	16094	PASS
173	174	0.00	2	0.9	1624	PASS
174	95	50	120	68.4	173931	PASS
175	174	4	9	7.5	13043	PASS
176	174	93	101	97.2	168981	PASS
177	176	5	9	6.6	11200	PASS

Data Path : J:\MS13\DATA\2009_08\14\
 Data File : 08140901.D
 Acq On : 14 Aug 2009 5:25
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009



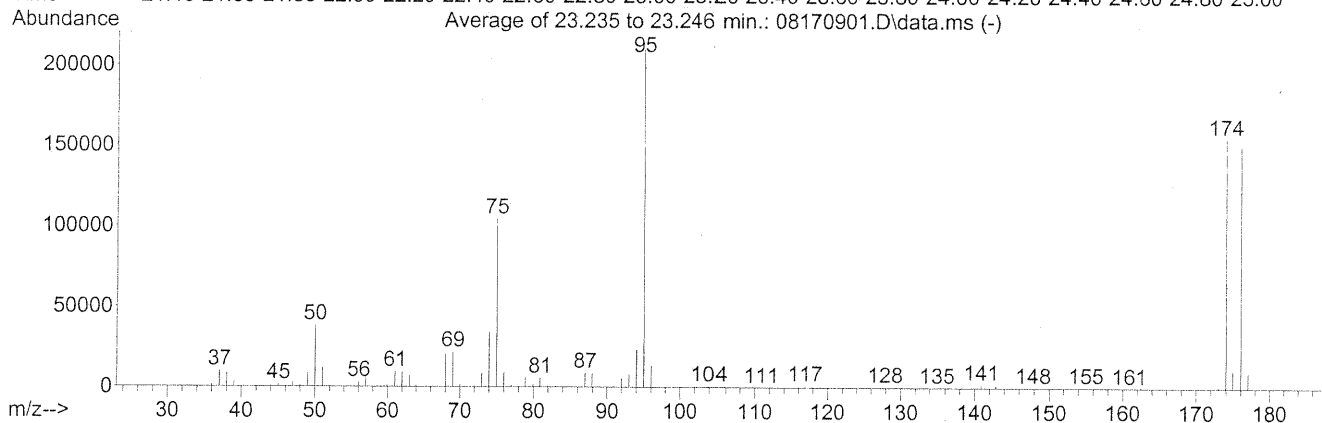
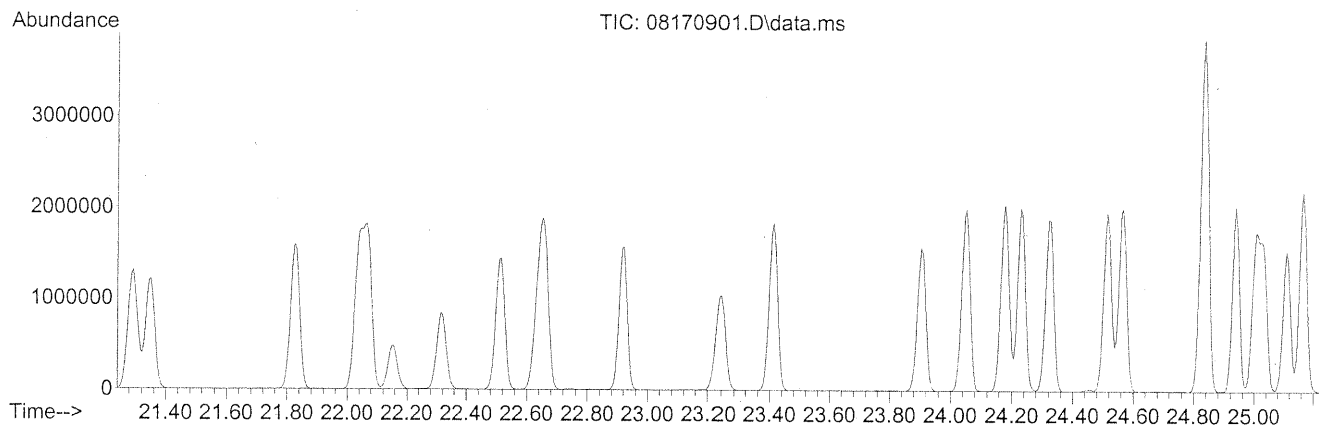
AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.4	41400	PASS
75	95	30	66	47.8	107912	PASS
95	95	100	100	100.0	225579	PASS
96	95	5	9	6.5	14653	PASS
173	174	0.00	2	0.9	1434	PASS
174	95	50	120	73.0	164736	PASS
175	174	4	9	7.2	11885	PASS
176	174	93	101	96.5	158997	PASS
177	176	5	9	6.5	10290	PASS

Data Path : J:\MS13\DATA\2009_08\17\
 Data File : 08170901.D
 Acq On : 17 Aug 2009 3:45
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009



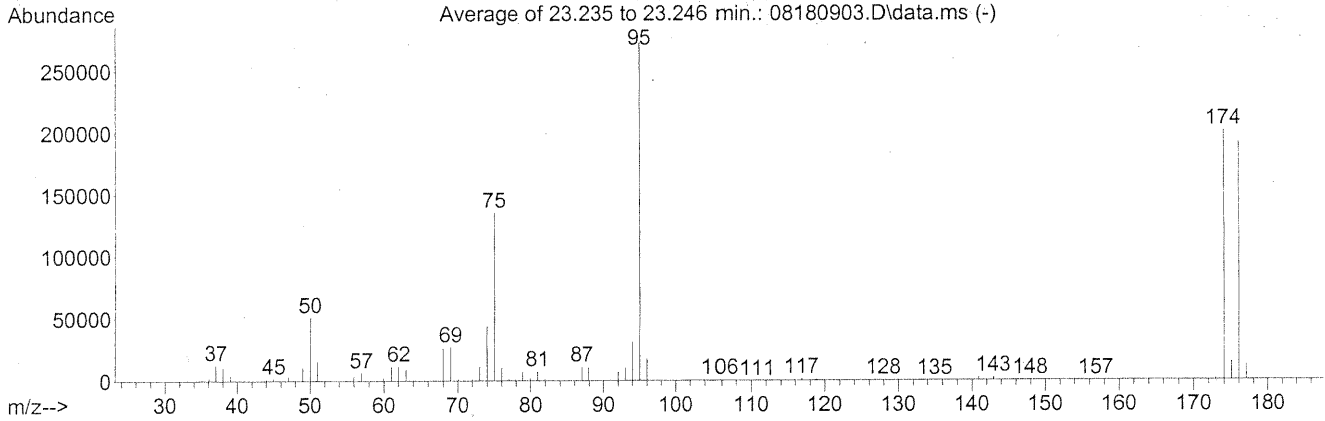
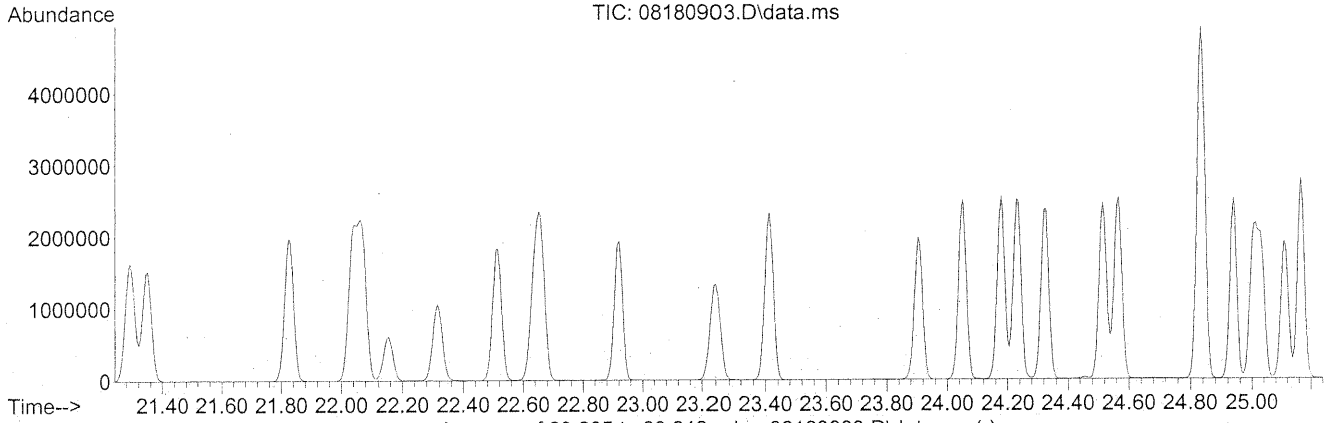
AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.3	38331	PASS
75	95	30	66	49.9	104741	PASS
95	95	100	100	100.0	209877	PASS
96	95	5	9	6.5	13656	PASS
173	174	0.00	2	1.0	1502	PASS
174	95	50	120	74.0	155371	PASS
175	174	4	9	7.1	11079	PASS
176	174	93	101	97.0	150784	PASS
177	176	5	9	6.4	9720	PASS

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009



AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	51365	PASS
75	95	30	66	49.8	135747	PASS
95	95	100	100	100.0	272789	PASS
96	95	5	9	6.4	17559	PASS
173	174	0.00	2	0.8	1653	PASS
174	95	50	120	73.9	201493	PASS
175	174	4	9	7.6	15284	PASS
176	174	93	101	95.5	192363	PASS
177	176	5	9	6.6	12710	PASS

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
13	08/06/09 11:15	08060913.D	25ng BFB STD	S20-07200902	WA	4	Passed
14	08/06/09 11:55	08060914.D	0.1ng TO-15 ICAL STD	S20-07200902/S20-07240912	WA	1	
15	08/06/09 12:36	08060915.D	0.2ng TO-15 ICAL STD	S20-07200902/S20-07240912	WA	1	
16	08/06/09 13:17	08060916.D	0.5ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
17	08/06/09 13:57	08060917.D	1.0ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
18	08/06/09 14:38	08060918.D	5.0ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
19	08/06/09 15:18	08060919.D	25ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
20	08/06/09 15:59	08060920.D	50ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
21	08/06/09 16:39	08060921.D	100ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
ICAL saved as R13080609.M; Good from 0.1ng --> 100ng, except: Acetone: 2.5ng -->500ng and THF: 0.2ng -->100ng							
22	08/06/09 17:20	08060922.D	25ng TO-15 ICV STD	S20-07200902/S20-07240916	WA	2	failed, case file
23	08/06/09 18:10	08060923.D	Blank	S20-07200902	WA	4	
24	08/06/09 18:51	08060924.D	25ng TO-15 ICV STD	S20-07200902/S20-07240917	WA	2	Passed all cmpds.
25	08/06/09 19:31	08060925.D	1.0ng TO-15 LOQ Verification	S20-07200902/S20-07310903	WA	4	
26	08/06/09 20:11	08060926.D	1.0ng TO-15 LOQ Verification	S20-07200902/S20-07310903	WA	4	
27	08/06/09 20:53	08060927.D	CAS QC CAN/FC/Gauge (1000mL)	AC00687/FC00232/AVG00940	WA	5	
28	08/06/09 21:35	08060928.D	CAS QC CAN/FC/Gauge (1000mL)	AC00705/FC00189/AVG00655	WA	6	
29	08/06/09 22:17	08060929.D	CAS QC CAN/FC/Gauge (1000mL)	AC00931/FC00407/AVG01149	WA	7	
30	08/06/09 22:59	08060930.D	CAS QC CAN/FC/Gauge (1000mL)	AC00672/FC00783/AVG00900	WA	8	
31	08/06/09 23:41	08060931.D	CAS QC CAN/FC/Gauge (1000mL)	AC01257/FC00515/AVG00906	WA	9	
32	08/07/09 0:23	08060932.D	CAS QC CAN/FC/Gauge (1000mL)	AC00958/FC00678/AVG01072	WA	10	
33	08/07/09 1:04	08060933.D	CAS QC CAN/FC/Gauge (1000mL)	AC01527/FC00508/AVG01046	WA	11	
34	08/07/09 1:46	08060934.D	CAS QC CAN/FC/Gauge (1000mL)	AC01172/FC00256/AVG00986	WA	12	
35	08/07/09 2:27	08060935.D	0.2ng LOD Verification	S20-07200902/S20-07240912	WA	1	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment	
1	08/14/09 5:25	08140901.D	25ng TO-15 CCV STD	S20-07200902/S20-07310901	WA	4	Passed	
2	08/14/09 6:06	08140902.D	25ng TO-15 ACF STD	S20-07200902/S20-07220901	WA	15	Passed	
3	08/14/09 6:47	08140903.D	TO-15 Method Blank (1000mL)	S20-07200902	WA	4	Passed	
4	08/14/09 7:40	08140904.D	QC CAN AC00034 (1000mL)	S20-07200902	WA	4		
5	08/14/09 8:21	08140905.D	P0902700-002 dil (200mL)	[REDACTED]	WA	3		
6	08/14/09 9:02	08140906.D	P0902700-003 dil (25mL)	[REDACTED]	WA	12		
7	08/14/09 9:42	08140907.D	P0902700-007 dil (200mL)	[REDACTED]	WA	13		
8	08/14/09 10:23	08140908.D	25ng TO-15 LCS STD	S20-07200902/S20-08070902	WA	2	case file	
9	08/14/09 11:03	08140909.D	25ng TO-15 LCSD STD	S20-07200902/S20-08070902	WA	2	case file	
10	08/14/09 11:56	08140910.D	P0902731-001 dil (1.0mL)	[REDACTED]	WA	4		
11	08/14/09 12:37	08140911.D	25ng TO-15 LCS STD	S20-07200902/S20-07270906	WA	2	Passed	
12	08/14/09 13:23	08140912.D	P0902733-001 (0.1mL)	[REDACTED]	WA	4	case file	
13	08/14/09 14:03	08140913.D	P0902731-001 (2.0mL)	[REDACTED]	WA	5		
14	08/14/09 14:54	08140914.D	P0902733-001 (1.0mL)	[REDACTED]	WA	4		
15	08/14/09 15:59	08140915.D	P0902733-001 dup (1.0mL)	[REDACTED]	WA	4	Passed	
16	08/14/09 16:39	08140916.D	P0902733-002 (25mL)	[REDACTED]	WA	3		
17	08/14/09 17:21	08140917.D	P0902731-002 (1000mL)	[REDACTED]	WA	1		
18	08/14/09 18:02	08140918.D	P0902733-002 (250mL)	[REDACTED]	WA	5		
19	08/14/09 18:43	08140919.D	25ng TO-15 LCSD STD	S20-07200902/S20-08070902	WA	2	case file	
20	08/14/09 19:23	08140920.D	0.5ng RL/LOQ Check	S20-07200902/S20-07310903	WA	4		
21	08/14/09 20:05	08140921.D	P0902721-002 (1000mL)	Env. Health & Engineering 100215	WA	6		
22	08/14/09 20:47	08140922.D	P0902721-003 (1000mL)	Env. Health & Engineering 100216	WA	7		
23	08/14/09 21:29	08140923.D	P0902721-004 (1000mL)	Env. Health & Engineering 100217	WA	8		
24	08/14/09 22:10	08140924.D	Test		WA	16		
25	08/14/09 22:51	08140925.D	25ng TO-15 LCSD STD	S20-07200902/S20-07270906	WA	2		
26	08/14/09 23:33	08140926.D	P0902721-005 (1000mL)	Env. Health & Engineering 100218	WA	9		
27	08/15/09 0:15	08140927.D	P0902721-006 (1000mL)	Env. Health & Engineering 100219	WA	10		
28	08/15/09 0:56	08140928.D	P0902721-007 (1000mL)	Env. Health & Engineering 99952	WA	11		
29	08/15/09 1:38	08140929.D	P0902721-008 (1000mL)	Env. Health & Engineering 99953	WA	12		
30	08/15/09 2:20	08140930.D	P0902721-009 (1000mL)	Env. Health & Engineering 99954	WA	13		
31	08/15/09 3:02	08140931.D	P0902721-010 (1000mL)	Env. Health & Engineering 99955	WA	14		8/17/09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment	
1	08/17/09 3:45	08170901.D	25ng TO-15 CCV STD	S20-08140906/S20-07310901	WA	4	Passed	
2	08/17/09 4:26	08170902.D	0.5ng RL/LOQ Check	S20-08140906/S20-07310903	WA	4	Passed	
3	08/17/09 5:09	08170903.D	TO-15 Method Blank (1000mL)	S20-08070902	WA	4	case file	
4	08/17/09 5:50	08170904.D	25ng TO-15 LCS STD	S20-08070902	WA	2	case file	
5	08/17/09 6:44	08170905.D	TO-15 Method Blank (1000mL)	S20-08140906	WA	4	Passed	
6	08/17/09 7:24	08170906.D	25ng TO-15 LCS STD	S20-08140906/S20-07270906	WA	2	case file	
7	08/17/09 8:47	08170907.D	P0902731-002 (1000mL) conf.	[REDACTED]	WA	1		
8	08/17/09 9:28	08170908.D	P0902721-002 dil (100mL)	Env. Health & Engineering 100215	WA	6		
9	08/17/09 10:08	08170909.D	P0902721-004 dil (100mL)	Env. Health & Engineering 100217	WA	8		cont. next page

8/18/09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
10	08/17/09 10:49	08170910.D	P0902721-005 dil (100mL)	Env. Health & Engineering 100218	WA	9	
11	08/17/09 11:47	08170911.D	25ng TO-15 LCS STD	S20-08140906/S20-07270906	WA	2	Passed
12	08/17/09 12:28	08170912.D	P0902721-007 dil (100mL)	Env. Health & Engineering 99952	WA	11	
13	08/17/09 13:08	08170913.D	P0902721-008 dil (100mL)	Env. Health & Engineering 99953	WA	12	
14	08/17/09 14:31	08170914.D	25ng TO-15 LCSD STD	S20-08140906/S20-07270906	WA	2	Passed
15	08/17/09 15:13	08170915.D	P0902721-001 (1000mL)	Env. Health & Engineering 100214	WA	5	
16	08/17/09 15:55	08170916.D	P0902721-011 (1000mL)	Env. Health & Engineering 99956	WA	1	
17	08/17/09 16:37	08170917.D	P0902721-012 (1000mL)	Env. Health & Engineering 99957	WA	3	
18	08/17/09 17:17	08170918.D	System		WA	16	
19	08/17/09 17:59	08170919.D	P0902721-001 dup (1000mL)	Env. Health & Engineering 100214	WA	5	Passed
20	08/17/09 18:41	08170920.D	P0902721-013 (1000mL)	Env. Health & Engineering 100202	WA	6	
21	08/17/09 19:23	08170921.D	P0902721-014 (1000mL)	Env. Health & Engineering 100203	WA	7	
22	08/17/09 20:05	08170922.D	P0902721-015 (1000mL)	Env. Health & Engineering 100204	WA	8	
23	08/17/09 20:47	08170923.D	P0902721-016 (1000mL)	Env. Health & Engineering 100205	WA	9	
24	08/17/09 21:28	08170924.D	P0902721-017 (1000mL)	Env. Health & Engineering 100206	WA	10	
25	08/17/09 22:10	08170925.D	P0902721-018 (1000mL)	Env. Health & Engineering 100207	WA	11	
26	08/17/09 22:51	08170926.D	System		WA	16	
27	08/17/09 23:32	08170927.D	P0902721-001 dil (100mL)	Env. Health & Engineering 100214	WA	5	
28	08/18/09 0:13	08170928.D	P0902721-001 dupdil (100mL)	Env. Health & Engineering 100214	WA	5	
29	08/18/09 0:53	08170929.D	P0902721-011 dil (200mL)	Env. Health & Engineering 99956	WA	1	
30	08/18/09 1:34	08170930.D	P0902721-013 dil (200mL)	Env. Health & Engineering 100202	WA	6	
31	08/18/09 2:15	08170931.D	P0902721-014 dil (200mL)	Env. Health & Engineering 100203	WA	7	BA 8/18/09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/18/09 13:27	08180902.D	Bad Run		WA	5	
2	08/18/09 14:32	08180903.D	25ng TO-15 CCV STD	S20-08140906/S20-07310901	WA	4	Passed
3	08/18/09 16:40	08180904.D	0.5ng RL/LOQ Check	S20-08070902/S20-07310903	WA	4	
4	08/18/09 17:22	08180905.D	TO-15 Method Blank (1000mL)	S20-08140906	WA	4	Passed
5	08/18/09 18:02	08180906.D	25ng TO-15 LCS STD	S20-08140906/S20-07270906	WA	2	Passed
6	08/18/09 18:43	08180907.D	P0902766-001 (1000mL)	[REDACTED]	WA	13	
7	08/18/09 19:25	08180908.D	P0902766-001 dup (1000mL)	[REDACTED]	WA	13	
8	08/18/09 20:05	08180909.D	P0902766-002 (1000mL)	[REDACTED]	WA	14	
9	08/18/09 20:46	08180910.D	P0902721-016 dil (200mL)	Env. Health & Engineering 100205	WA	9	
10	08/18/09 21:26	08180911.D	P0902721-017 dil (200mL)	Env. Health & Engineering 100206	WA	10	
11	08/18/09 22:06	08180912.D	25ng TO-15 LCSD STD	S20-08140906/S20-07270906	WA	2	Case file
12	08/18/09 22:46	08180913.D	System	S20-08140906/S20-07270906	WA	16	
13	08/18/09 23:26	08180914.D	P0902697-Blank100	[REDACTED]	WA	5	
14	08/19/09 0:07	08180915.D	P0902697-Blank150	[REDACTED]	WA	7	
15	08/19/09 0:47	08180916.D	P0902697-001 (100mL)	[REDACTED]	WA	6	
16	08/19/09 1:27	08180917.D	P0902697-002 (100mL)	[REDACTED]	WA	8	
17	08/19/09 2:08	08180918.D	System		WA	16	cont next page BA 8/20/09

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cont next page
BA 8/20/09