
LABORATORY REPORT

September 14, 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 18, 2009. For your reference, these analyses have been assigned our service request number P0902832.

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 392 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: P0902832
Project: 16512

CASE NARRATIVE

The samples were received intact under chain of custody on August 18, 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 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: P0902832

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	P1 (Hg)	P1 (psig)	Pf1 (Hg)	Pf2 (psig)	Cont ID	Order #	FC ID	Bottle Order #
P0902832-001.01	101654	6.0 L-Summa Canister Ambient	-6.0	-2.9	3.5		AC00713	14274		
P0902832-002.01	101655	6.0 L-Summa Canister Ambient	-4.8	-2.4	3.5		AC01661	14274		
P0902832-003.01	101653	6.0 L-Summa Canister Ambient	-7.5	-3.7	3.5		AC01193	14274		
P0902832-004.01	101657	6.0 L-Summa Canister Ambient	-5.0	-2.5	3.5		AC01007	14190		
P0902832-005.01	101658	6.0 L-Summa Canister Ambient	-7.9	-3.9	3.5		AC00615	14190		
P0902832-006.01	101656	6.0 L-Summa Canister Ambient	-29.6	-14.5	3.5		AC01666	14274		

Miscellaneous Items - received

- AVG01087
- FC00628
- AVG01126
- AVG00987
- FC00430
- FC00668
- FC00550
- AVG01108
- AVG00971
- FC00511
- AVG01155
- FC00426

CHAIN OF CUSTODY FORM

DATE: 8/13/09

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725 POA02832

TO: Columbia Analytical

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 # 116572

The cost of this analysis will be covered by EH&E Purchase Order # 116572

For EH & E Data Coordinator - URGENT DATA

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.	
<u>101654</u>	<u>SUMMA-AIR</u>	<u>EPA TO-15 - Full List</u>	<u>120 MIN</u>	<u>-6.5</u>
<u>101655</u>	↓	↓	↓	<u>-4.8</u>
<u>101653</u>	↓	↓	↓	<u>-7.5</u>
<u>101657</u>	↓	↓	↓	<u>-5.0</u>
<u>101658</u>	↓	↓	↓	<u>-7.9</u>
<u>101656</u>	↓	↓	↓	<u>-29.6</u>

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

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

Relinquished by: [Signature] of Environmental Health & Engineering, Inc. Date: 8/17/09
 Received by: [Signature] of (company name) CAS Date: 8/18/09 0950
 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: P0902832

Project: 16512

Sample(s) received on: 08/18/09

Date opened: 08/18/09

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.

- | | | Yes | No | N/A |
|----|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 | Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Container(s) supplied by CAS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | 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 type="checkbox"/> | <input checked="" 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
P0902832-001.01	6.0 L Ambient Can					
P0902832-002.01	6.0 L Ambient Can					
P0902832-003.01	6.0 L Ambient Can					
P0902832-004.01	6.0 L Ambient Can					
P0902832-005.01	6.0 L Ambient Can					
P0902832-006.01	6.0 L Ambient Can					

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

Chain of Custody is missing time collected _____

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101654
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P0902832-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00713

Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/24/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.77	ND	0.45	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.77	0.48	0.16	
74-87-3	Chloromethane	0.75	0.15	0.36	0.075	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.77	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.060	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.070	
74-83-9	Bromomethane	ND	0.15	ND	0.040	
75-00-3	Chloroethane	ND	0.15	ND	0.058	
64-17-5	Ethanol	390	7.7	210	4.1	
75-05-8	Acetonitrile	190	0.77	110	0.46	E
107-02-8	Acrolein	5.6	0.77	2.4	0.34	
67-64-1	Acetone	73	7.7	31	3.2	
75-69-4	Trichlorofluoromethane	1.1	0.15	0.20	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.9	0.77	2.4	0.31	
107-13-1	Acrylonitrile	ND	0.77	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.039	
75-09-2	Methylene Chloride	ND	0.77	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.049	
76-13-1	Trichlorotrifluoroethane	0.52	0.15	0.068	0.020	
75-15-0	Carbon Disulfide	2.0	0.77	0.63	0.25	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.043	
108-05-4	Vinyl Acetate	ND	7.7	ND	2.2	
78-93-3	2-Butanone (MEK)	4.5	0.77	1.5	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: _____

8/31/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101654
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00713

CAS Project ID: P0902832
 CAS Sample ID: P0902832-001

Date Collected: 8/13/09
 Date Received: 8/18/09
 Date Analyzed: 8/24/09
 Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.54

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		
156-59-2	cis-1,2-Dichloroethene		ND	0.15		ND
141-78-6	Ethyl Acetate	4.8		1.5		1.3
110-54-3	n-Hexane	3.1		0.77		0.88
67-66-3	Chloroform	1.2		0.15		0.25
109-99-9	Tetrahydrofuran (THF)	1.1		0.77		0.36
107-06-2	1,2-Dichloroethane	0.31		0.15		0.077
71-55-6	1,1,1-Trichloroethane		ND	0.15		ND
71-43-2	Benzene	1.4		0.15		0.45
56-23-5	Carbon Tetrachloride	0.51		0.15		0.081
110-82-7	Cyclohexane	0.95		0.77		0.27
78-87-5	1,2-Dichloropropane		ND	0.15		ND
75-27-4	Bromodichloromethane		ND	0.15		ND
79-01-6	Trichloroethene		ND	0.15		ND
123-91-1	1,4-Dioxane		ND	0.77		ND
80-62-6	Methyl Methacrylate		ND	1.5		ND
142-82-5	n-Heptane	2.0		0.77		0.49
10061-01-5	cis-1,3-Dichloropropene		ND	0.77		ND
108-10-1	4-Methyl-2-pentanone	16		0.77		4.0
10061-02-6	trans-1,3-Dichloropropene		ND	0.77		ND
79-00-5	1,1,2-Trichloroethane		ND	0.15		ND
108-88-3	Toluene	14		0.77		3.8
591-78-6	2-Hexanone	1.3		0.77		0.33
124-48-1	Dibromochloromethane		ND	0.15		ND
106-93-4	1,2-Dibromoethane		ND	0.15		ND
123-86-4	n-Butyl Acetate	24		0.77		5.0

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: f Date: 9/10/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101654
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P0902832-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00713

Date Collected: 8/13/09
 Date Received: 8/18/09
 Date Analyzed: 8/24/09
 Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.8	0.77	0.39	0.16	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.023	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	5.1	0.77	1.2	0.18	
179601-23-1	m,p-Xylenes	9.6	0.77	2.2	0.18	
75-25-2	Bromoform	ND	0.77	ND	0.075	
100-42-5	Styrene	2.7	0.77	0.65	0.18	
95-47-6	o-Xylene	4.3	0.77	0.99	0.18	
111-84-2	n-Nonane	1.7	0.77	0.33	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.77	ND	0.16	
80-56-8	alpha-Pinene	58	0.77	10	0.14	
103-65-1	n-Propylbenzene	ND	0.77	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.77	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.77	ND	0.16	
95-63-6	1,2,4-Trimethylbenzene	2.6	0.77	0.54	0.16	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.026	
106-46-7	1,4-Dichlorobenzene	0.63	0.15	0.10	0.026	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.026	
5989-27-5	d-Limonene	8.5	0.77	1.5	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	ND	0.080	
120-82-1	1,2,4-Trichlorobenzene	ND	0.77	ND	0.10	
91-20-3	Naphthalene	1.3	0.77	0.25	0.15	
87-68-3	Hexachlorobutadiene	ND	0.77	ND	0.072	

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

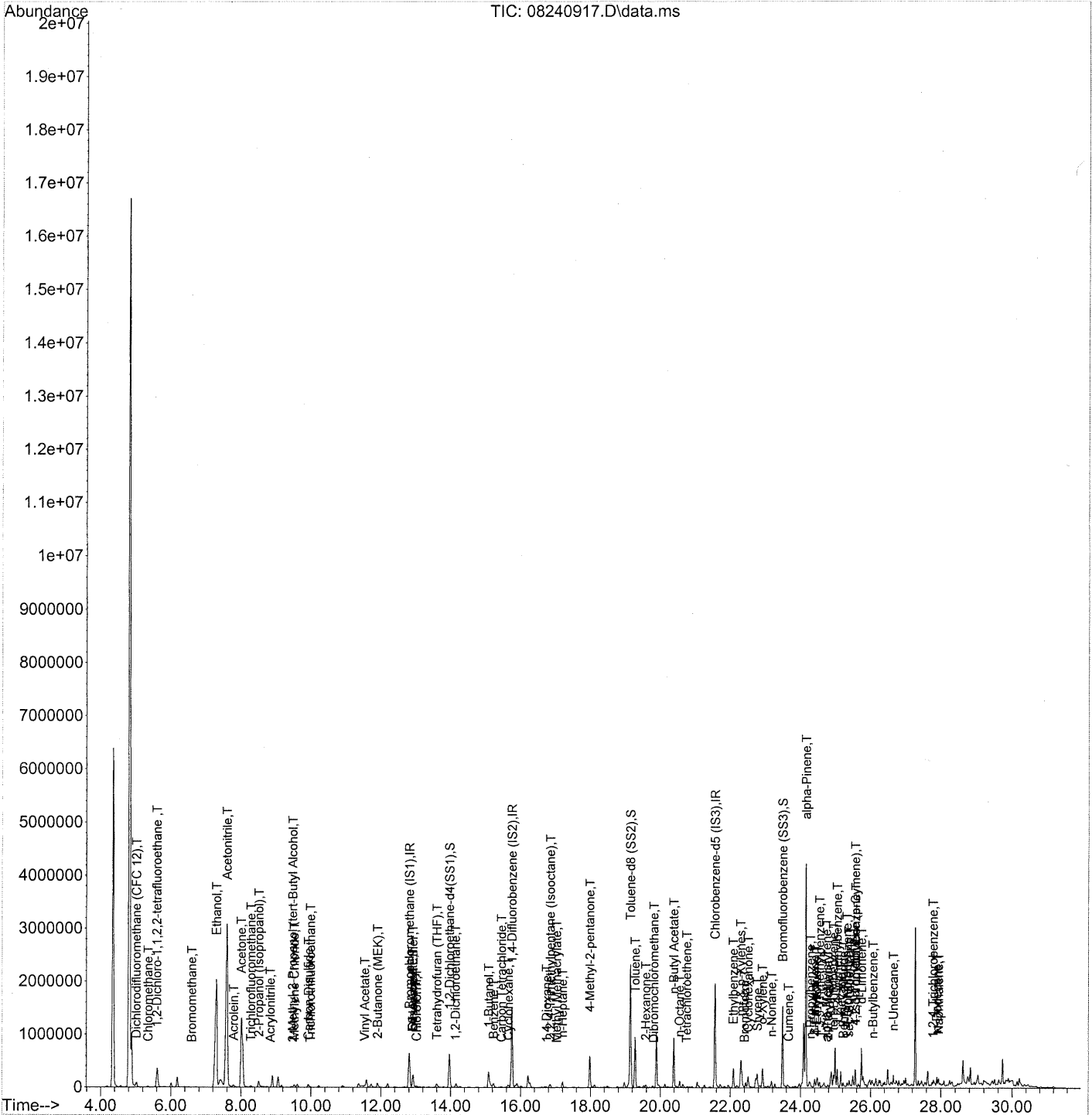
Date: _____

8/24/09

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Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 27 13:18:55 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



10

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml) ✓
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 27 13:18:55 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	351461	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1789937	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	832084	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	623218	25.078	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	100.32%	
57) Toluene-d8 (SS2)	19.15	98	2033120	25.702	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	102.80%	
73) Bromofluorobenzene (SS3)	23.49	174	551509	24.619	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	98.48%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	5.01	85	67782	1.540	ng	98
4) Chloromethane	5.35	50	19837	0.484	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1168	0.050	ng	# 43
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.08	54	653	N.D.		
8) Bromomethane	6.59	94	1066	0.050	ng	83
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.30	45	4927727m	254.804	ng	
11) Acetonitrile	7.60	41	5845480	123.854	ng	E 99
12) Acrolein	7.79	56	45734	3.626	ng	99
13) Acetone	8.01	58	937658	47.646	ng	96
14) Trichlorofluoromethane	8.29	101	27316	0.726	ng	98
15) 2-Propanol (Isopropanol)	8.51	45	207074m	3.842	ng	
16) Acrylonitrile	8.84	53	2793	0.098	ng	# 49
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	25182	0.460	ng	# 65
19) Methylene Chloride	9.53	84	7942	0.323	ng	83
20) 3-Chloro-1-propene (Al...	9.72	41	456	N.D.		
21) Trichlorotrifluoroethane	9.98	151	5734	0.340	ng	97
22) Carbon Disulfide	9.93	76	111100	1.282	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	11.44	73	1229	N.D.		
26) Vinyl Acetate	11.54	86	19165	4.496	ng	# 1
27) 2-Butanone (MEK)	11.90	72	39713	2.895	ng	# 87
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.92	87	1006	0.052	ng	# 1
30) Ethyl Acetate	12.91	61	27672	3.110	ng	95
31) n-Hexane	12.92	57	87166	2.010	ng	94 11

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 27 13:18:55 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	13.02	83	28814	0.794 ng	99
34) Tetrahydrofuran (THF)	13.61	72	9798	0.687 ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	14.14	62	5636	0.203 ng	83
38) 1,1,1-Trichloroethane	14.53	97	975	N.D.	
39) Isopropyl Acetate	15.07	61	106	N.D.	
40) 1-Butanol	15.09	56	302063	13.023 ng	79
41) Benzene	15.23	78	89597	0.931 ng	98
42) Carbon Tetrachloride	15.46	117	8929	0.332 ng	99
43) Cyclohexane	15.66	84	22882	0.614 ng #	84
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	
45) 1,2-Dichloropropane	16.43	63	226	N.D.	
46) Bromodichloromethane	0.00	83	0	N.D. d	
47) Trichloroethene	0.00	130	0	N.D.	
48) 1,4-Dioxane	16.75	88	1300	0.076 ng	76
49) 2,2,4-Trimethylpentane...	16.85	57	60653	0.547 ng	86
50) Methyl Methacrylate	17.03	100	1429	0.149 ng #	37
51) n-Heptane	17.21	71	33253	1.298 ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	17.98	58	220769	10.613 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	19.28	91	881103	9.189 ng	100
59) 2-Hexanone	19.59	43	43344	0.870 ng	85
60) Dibromochloromethane	19.82	129	1364	0.067 ng #	69
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	20.39	43	843647	15.514 ng	99
63) n-Octane	20.55	57	24989	1.169 ng	87
64) Tetrachloroethene	20.75	166	1336	0.056 ng	81
65) Chlorobenzene	21.62	112	1408	N.D.	
66) Ethylbenzene	22.09	91	340401	3.288 ng	98
67) m- & p-Xylenes	22.30	91	511576	6.233 ng	99
68) Bromoform	22.41	173	1555	0.087 ng	77
69) Styrene	22.77	104	108248	1.784 ng	99
70) o-Xylene	22.92	91	230502	2.792 ng	99
71) n-Nonane	23.17	43	55786	1.122 ng	90
72) 1,1,2,2-Tetrachloroethane	22.91	83	885	N.D.	
74) Cumene	23.66	105	16315	0.152 ng	91
75) alpha-Pinene	24.15	93	1993010	37.732 ng	99
76) n-Propylbenzene	24.28	91	35756	0.270 ng #	65
77) 3-Ethyltoluene	24.40	105	89780	0.895 ng	99
78) 4-Ethyltoluene	24.46	105	47764	0.474 ng	97
79) 1,3,5-Trimethylbenzene	24.55	105	38952	0.467 ng	100

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 27 13:18:55 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

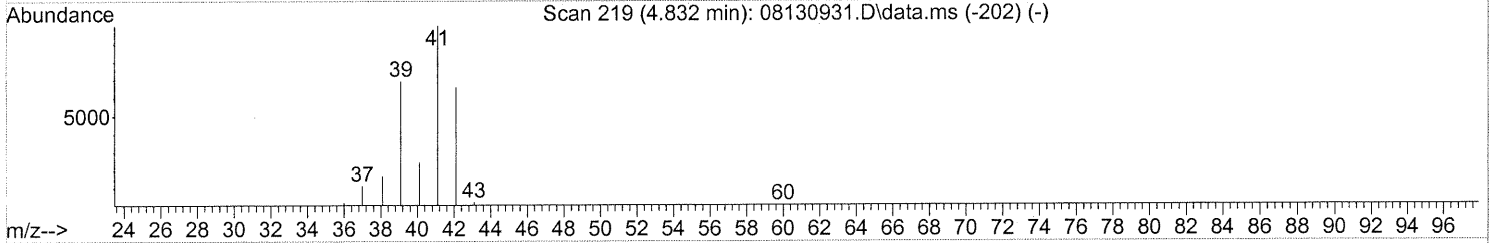
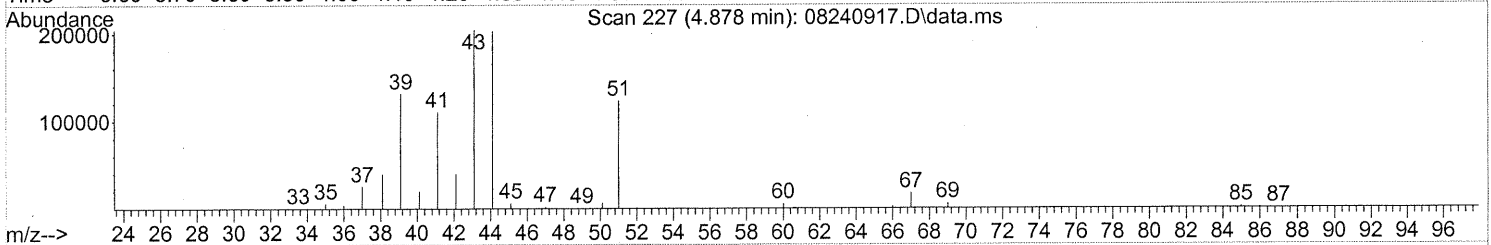
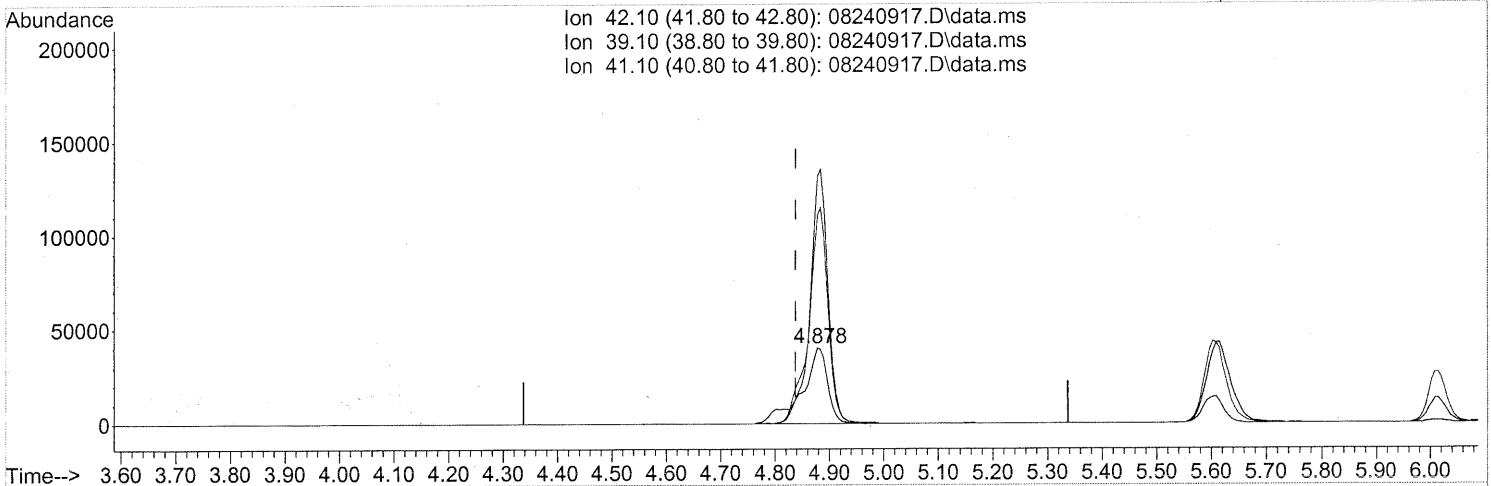
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	3237	0.072	ng	88
81) 2-Ethyltoluene	24.79	105	35805	0.346	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	152120	1.719	ng	88
83) n-Decane	25.15	57	110114	2.137	ng	97
84) Benzyl Chloride	25.23	91	3881	0.057	ng #	55
85) 1,3-Dichlorobenzene	25.25	146	1182	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	19796	0.407	ng	98
87) sec-Butylbenzene	25.38	105	6704	0.057	ng #	33
88) 4-Isopropyltoluene (p-...	25.56	119	129962	1.163	ng	98
89) 1,2,3-Trimethylbenzene	25.57	105	59973	0.670	ng	89
90) 1,2-Dichlorobenzene	25.74	146	998	N.D.		
91) d-Limonene	25.74	68	199057	5.496	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	69020	1.296	ng	84
94) 1,2,4-Trichlorobenzene	27.79	180	1891	0.059	ng #	85
95) Naphthalene	27.94	128	101148	0.852	ng	97
96) n-Dodecane	27.89	57	61010	1.024	ng	94
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	114731	3.799	ng	97
99) tert-Butylbenzene	24.94	119	5834	0.066	ng	98
100) n-Butylbenzene	26.06	91	34381	0.370	ng #	44

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(2) Propene (T)

4.878min (+0.040) 4.22ng

response 129983

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	239.92#
41.10	152.70	217.55#
0.00	0.00	0.00

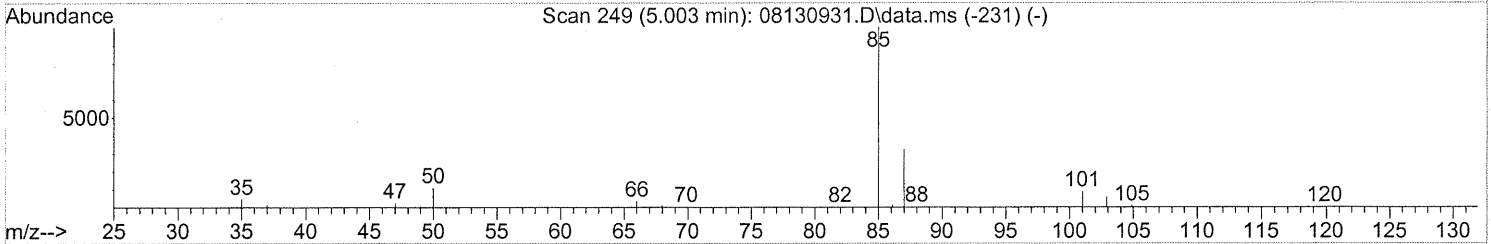
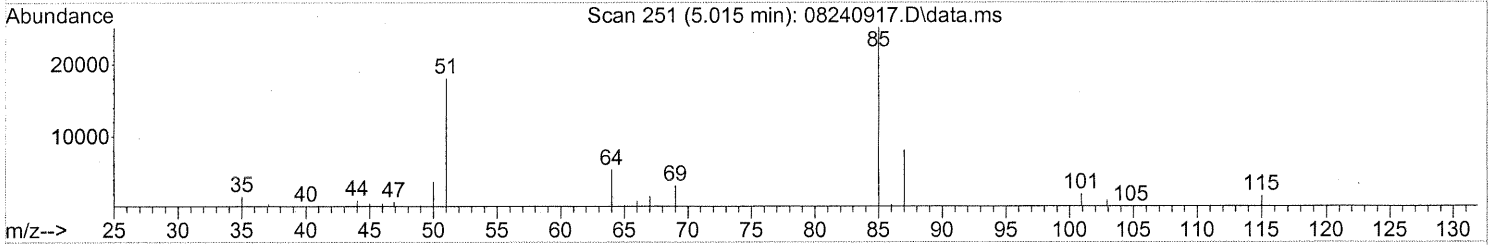
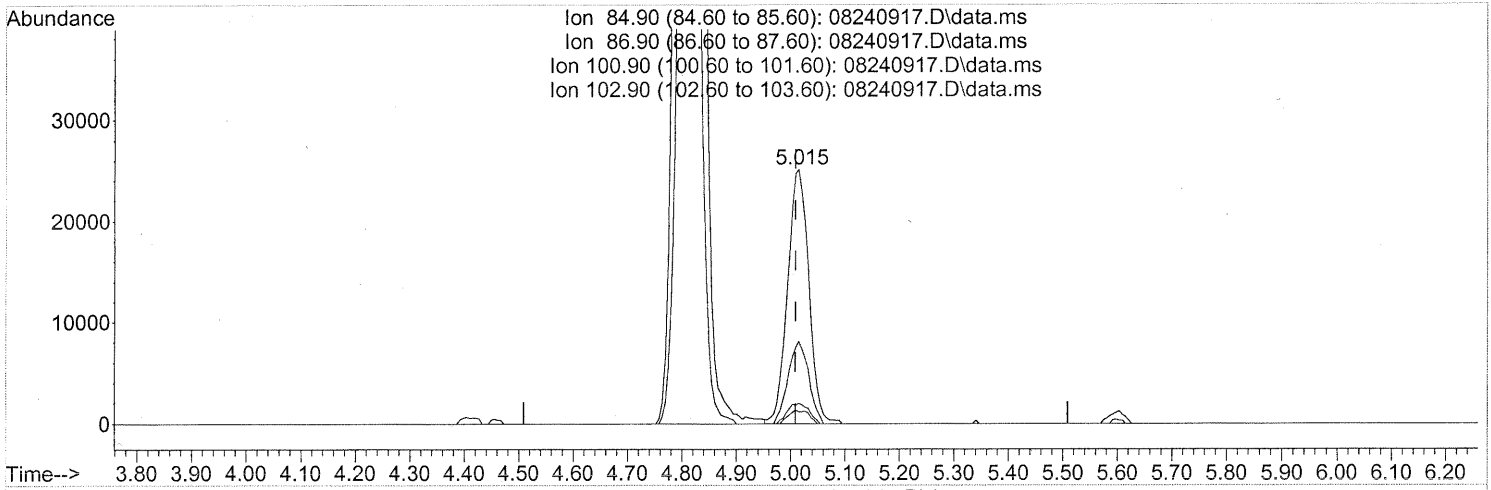
FP em 8/27/09

CE 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.015min (+0.006) 1.54ng

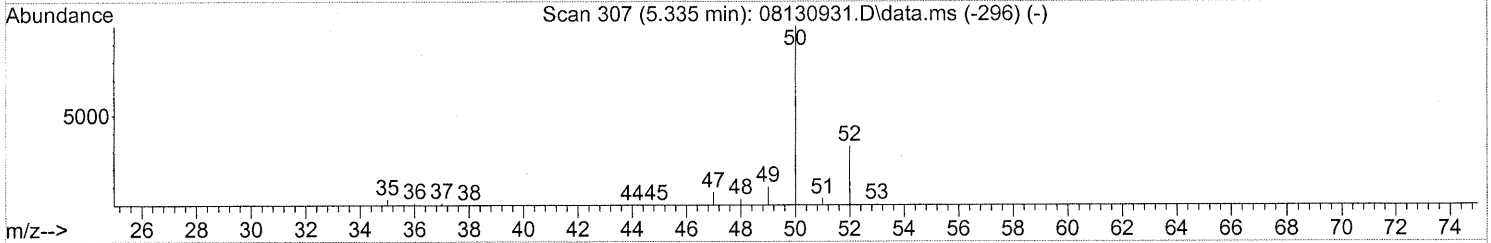
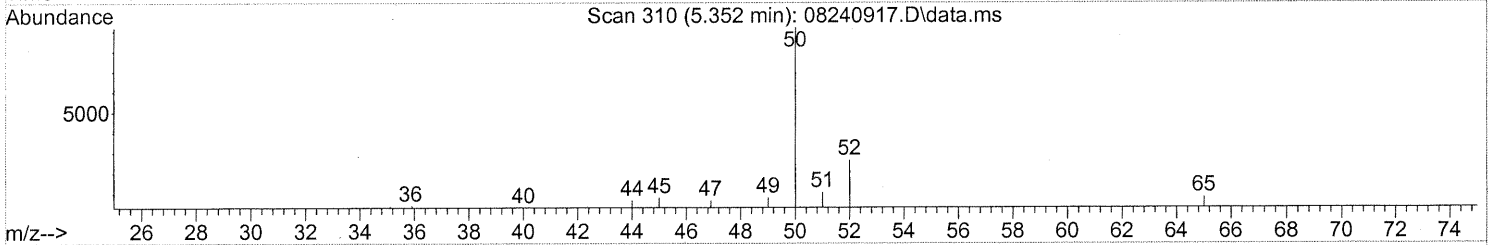
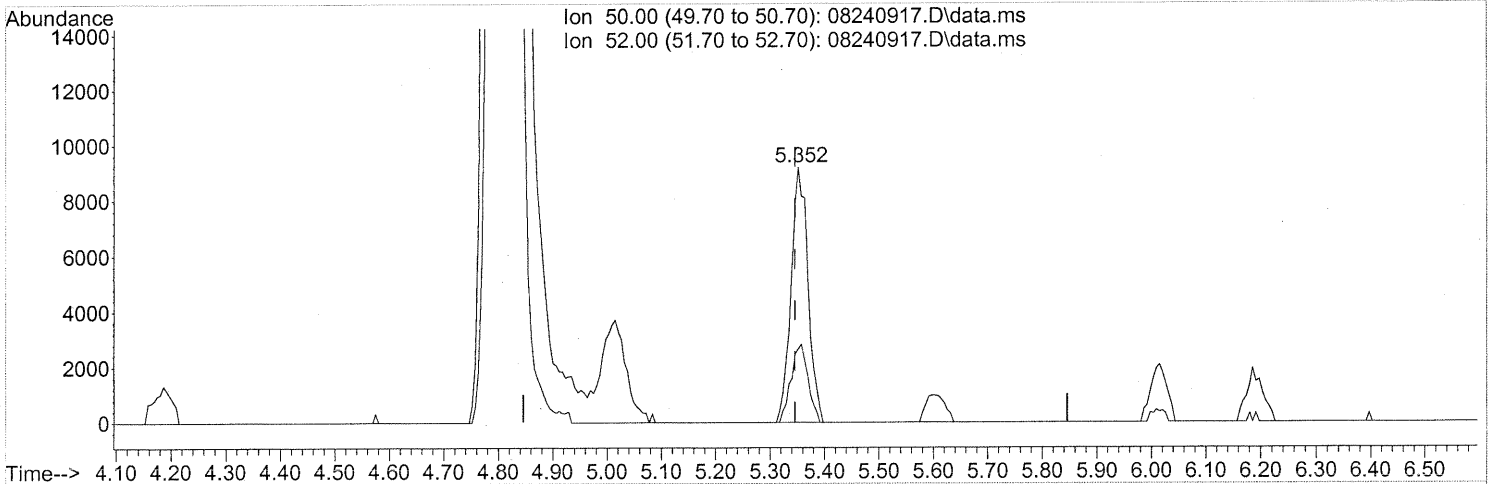
response 67782

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.30
100.90	9.10	8.06
102.90	5.50	4.91

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

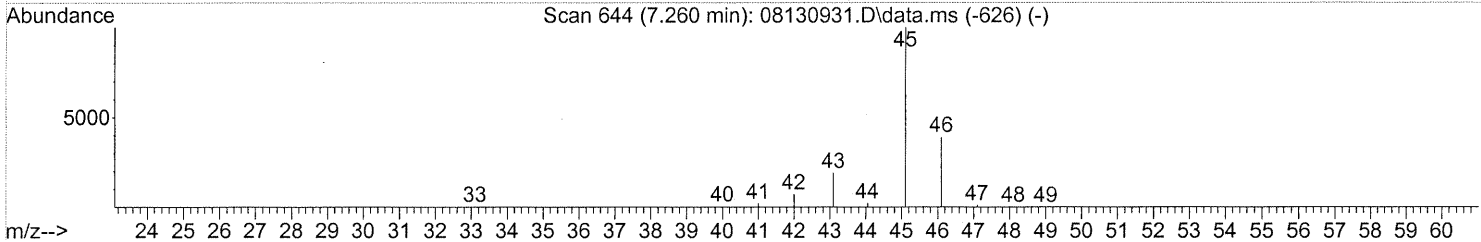
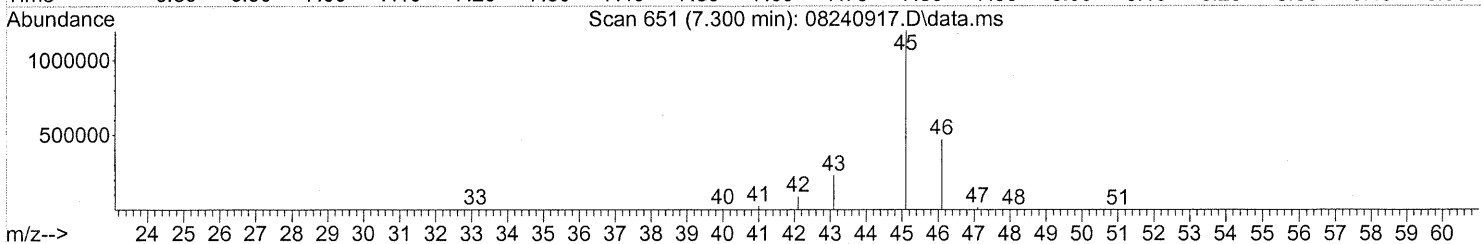
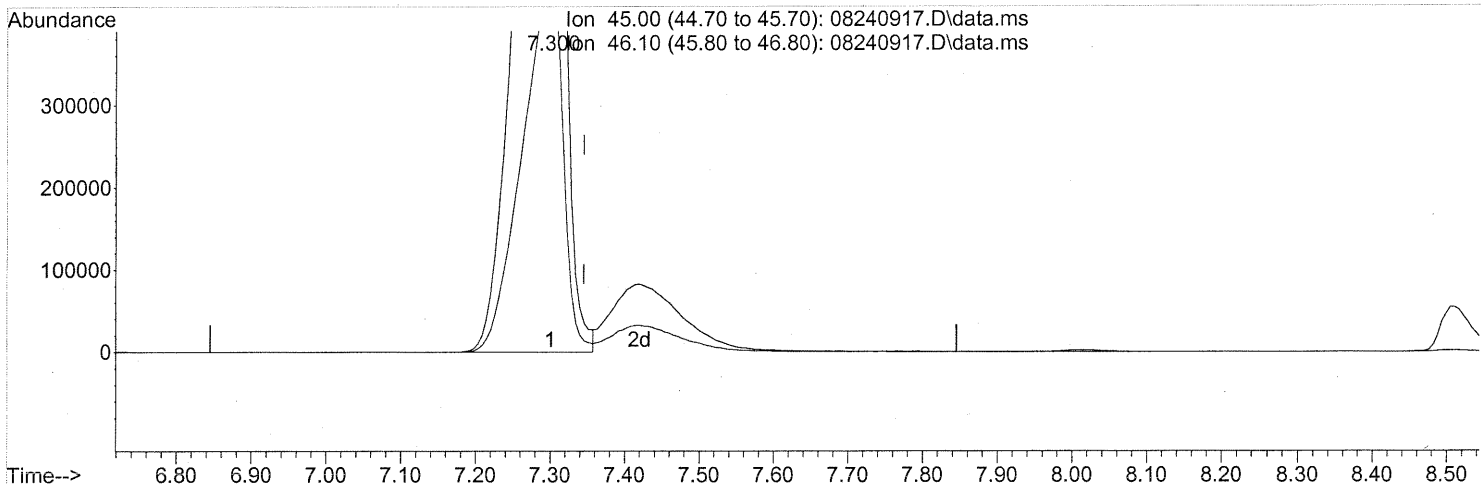
(4) Chloromethane (T)
 5.352min (+0.006) 0.48ng
 response 19837

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(10) Ethanol (T)

7.300min (-0.046) 226.63ng

response 4382930

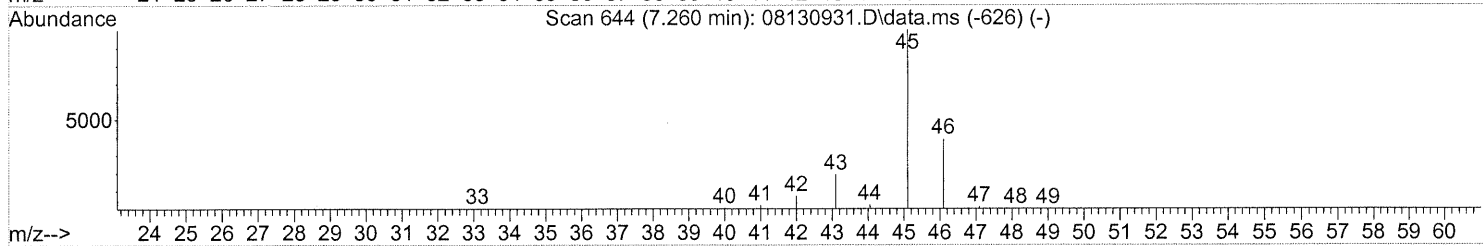
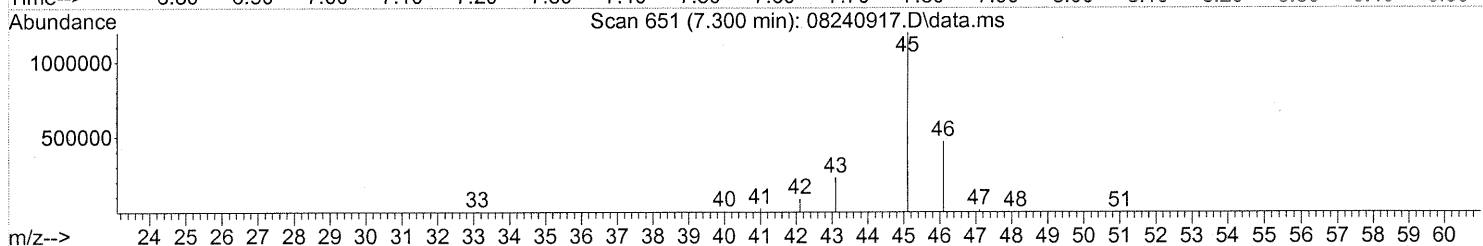
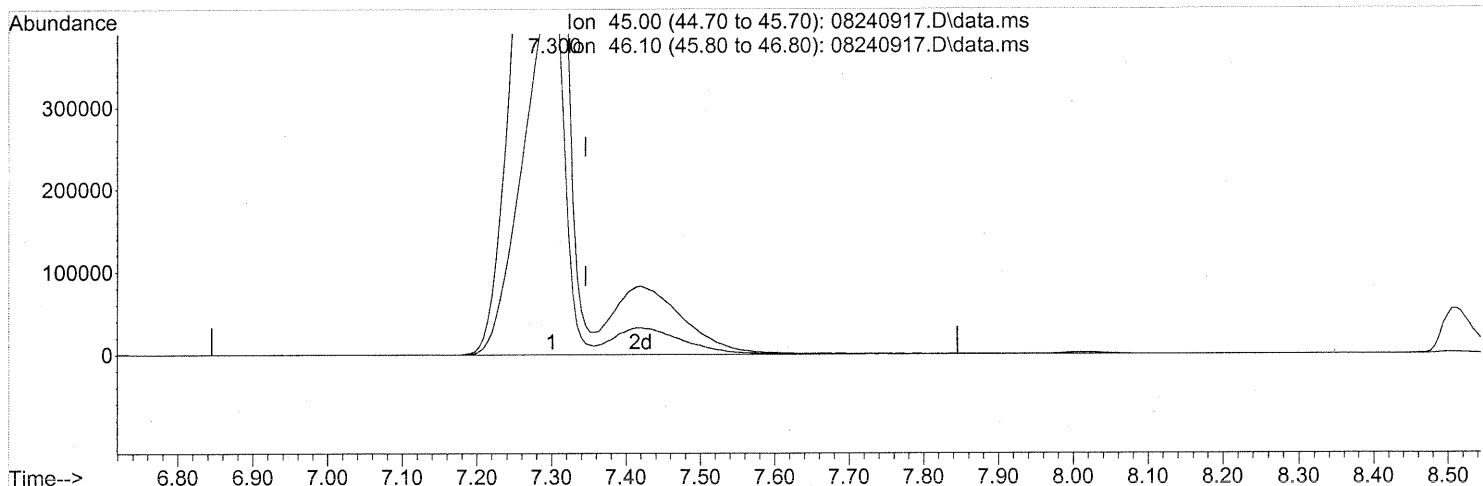
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.300min (-0.046) 254.80ng m

response 4927727

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	34.86
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

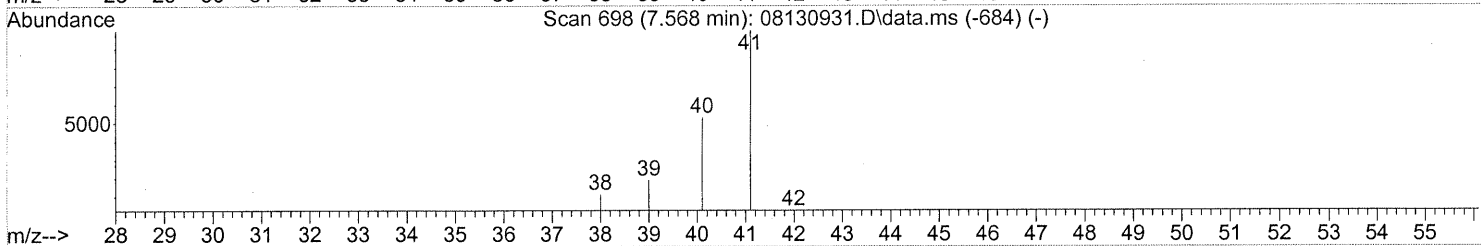
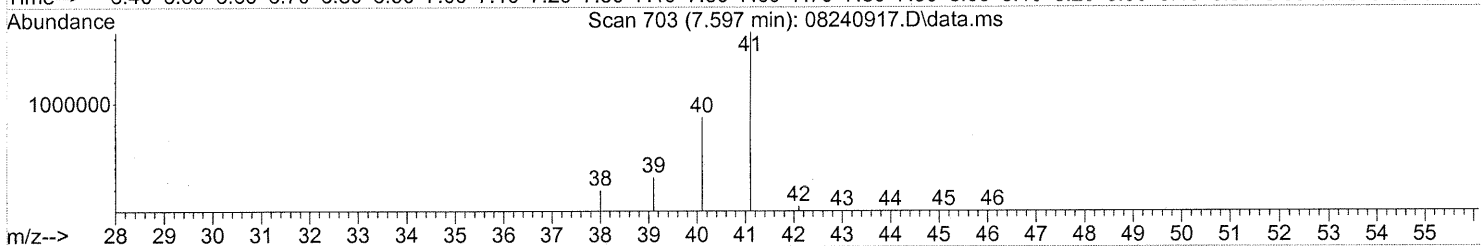
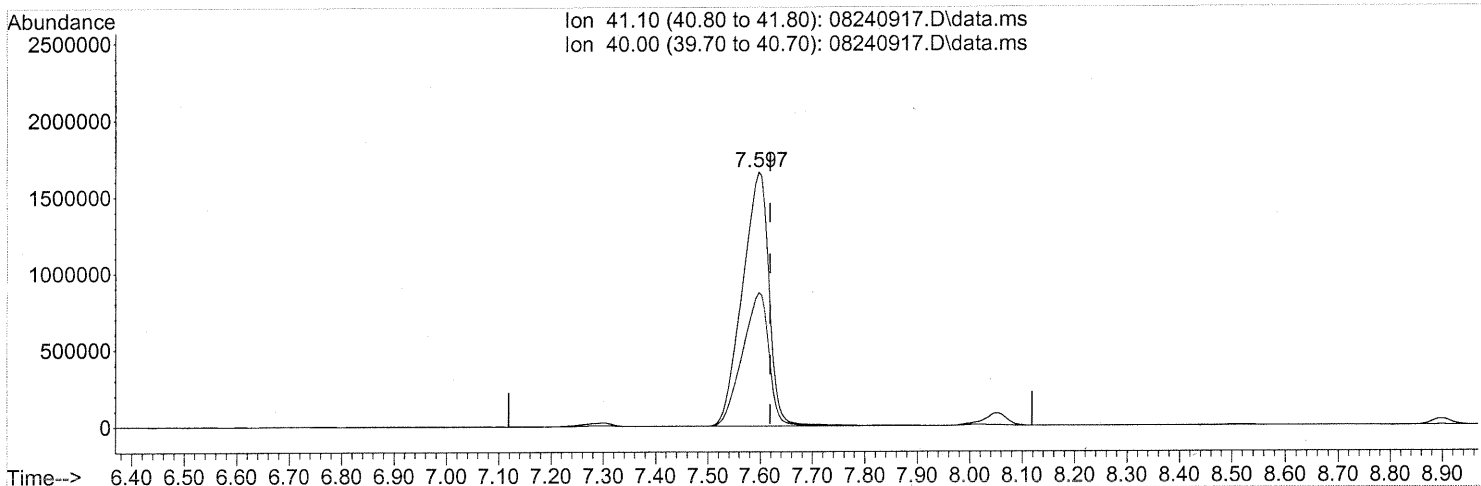
em 8/27/09

8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(11) Acetonitrile (T)

7.597min (-0.023) 123.85ng

response 5845480

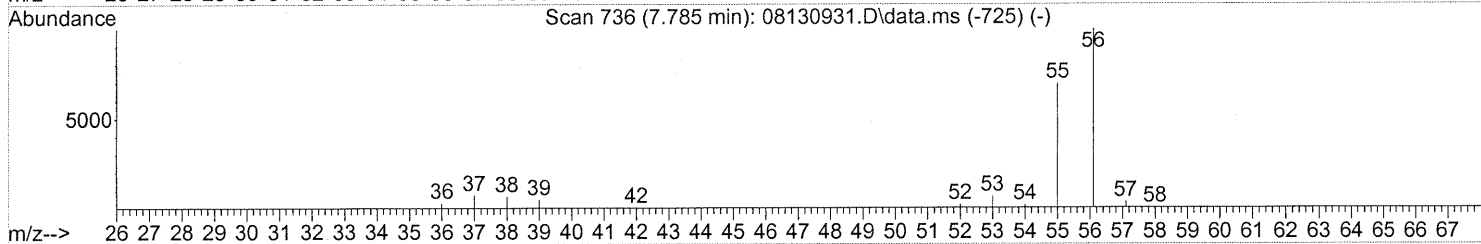
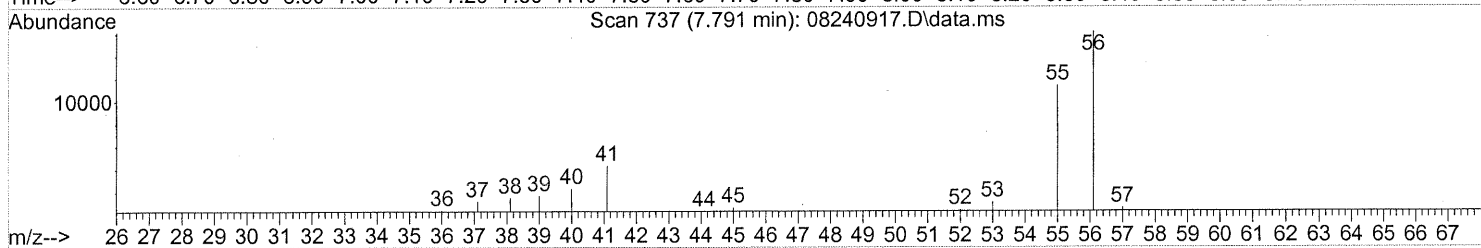
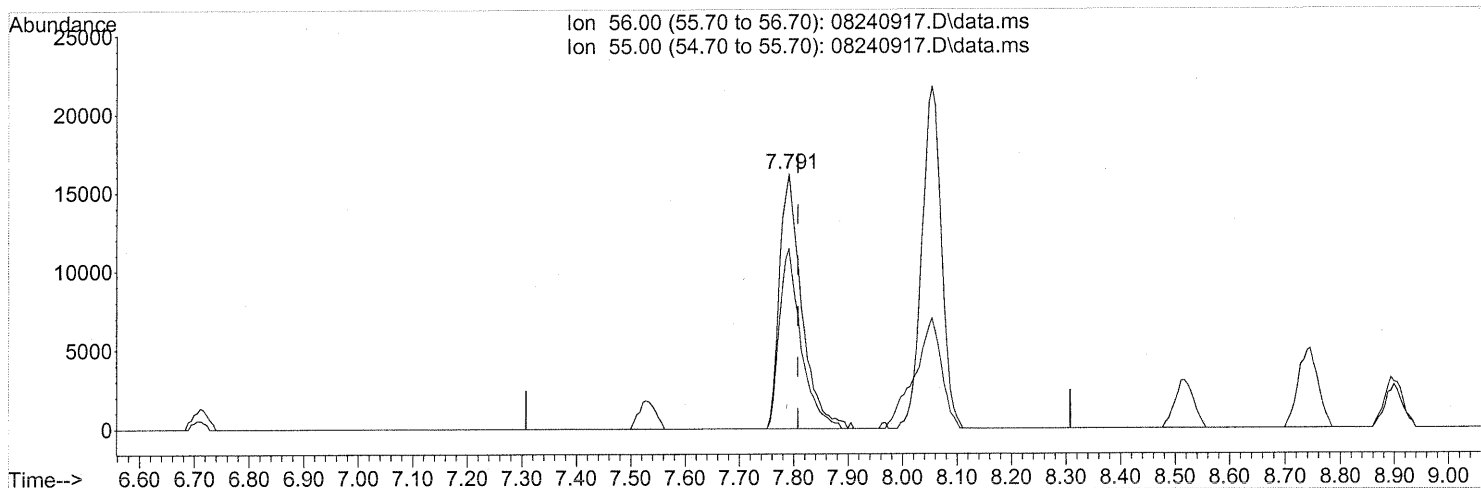
Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.50
0.00	0.00	0.00
0.00	0.00	0.00

E

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(12) Acrolein (T)

7.791min (-0.017) 3.63ng

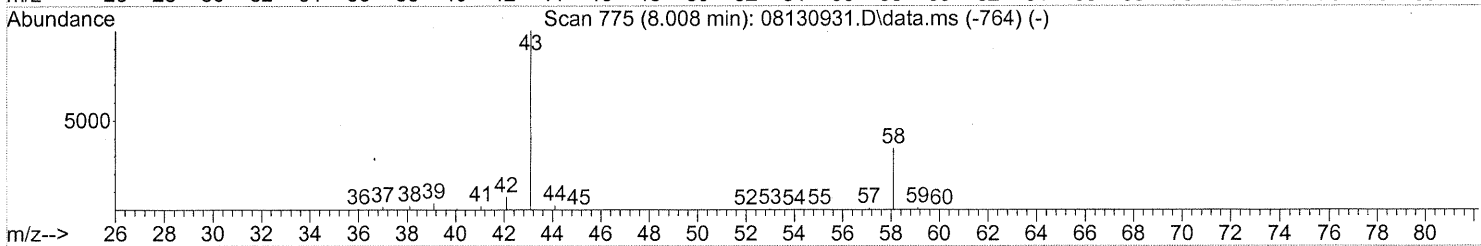
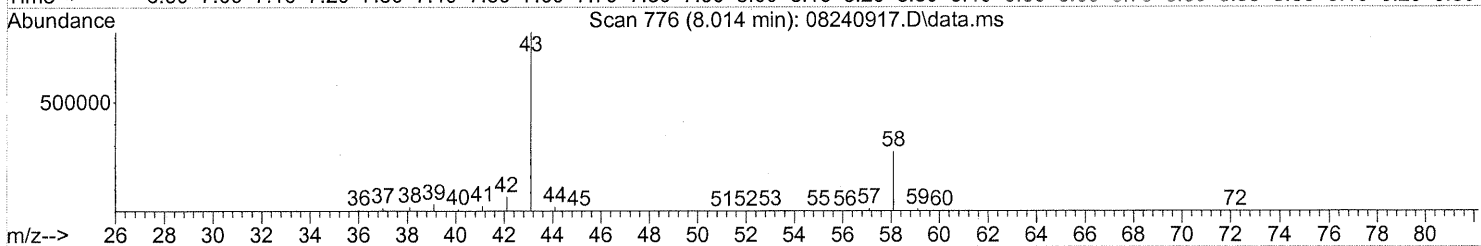
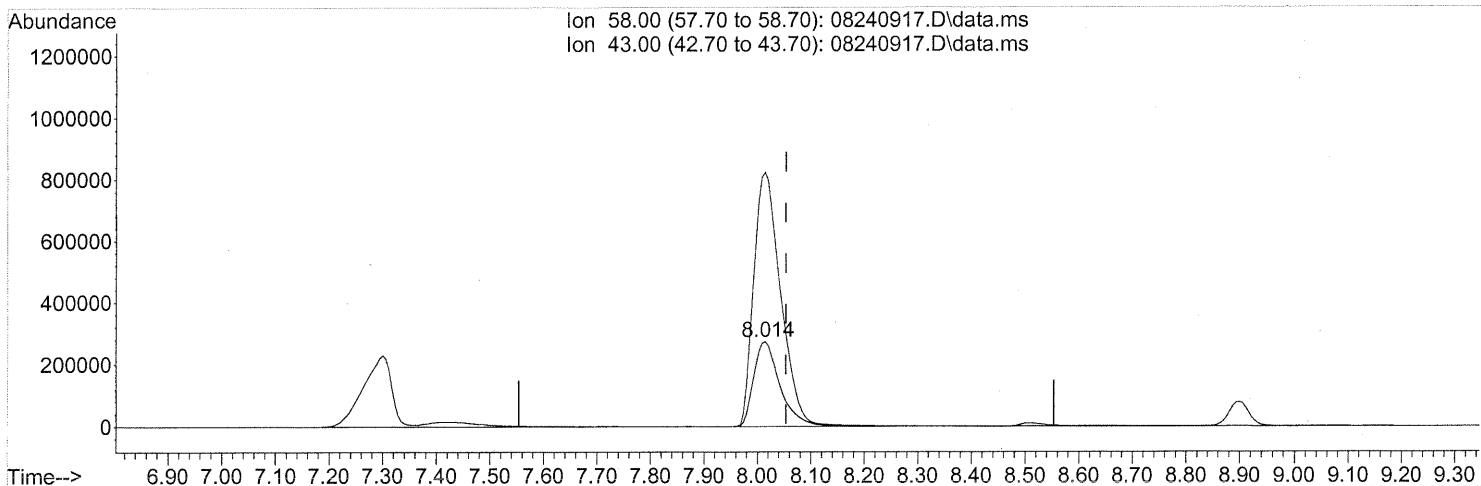
response 45734

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	68.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(13) Acetone (T)

8.014min (-0.040) 47.65ng

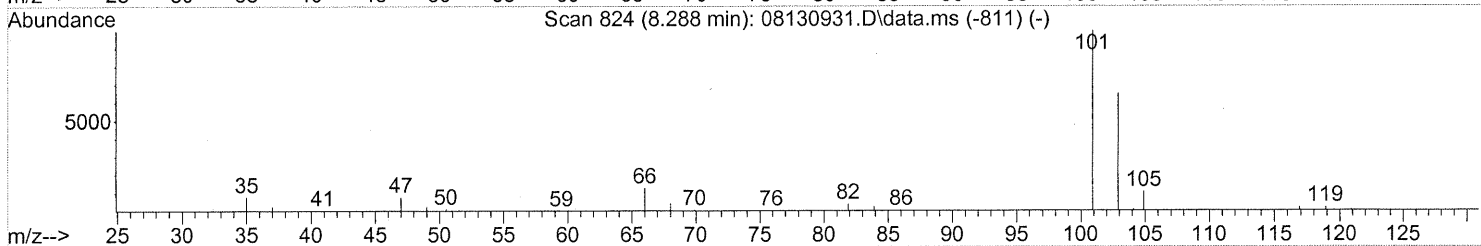
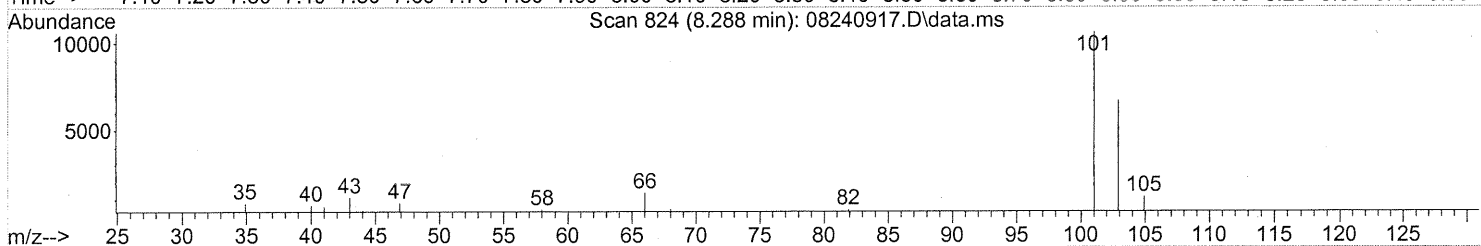
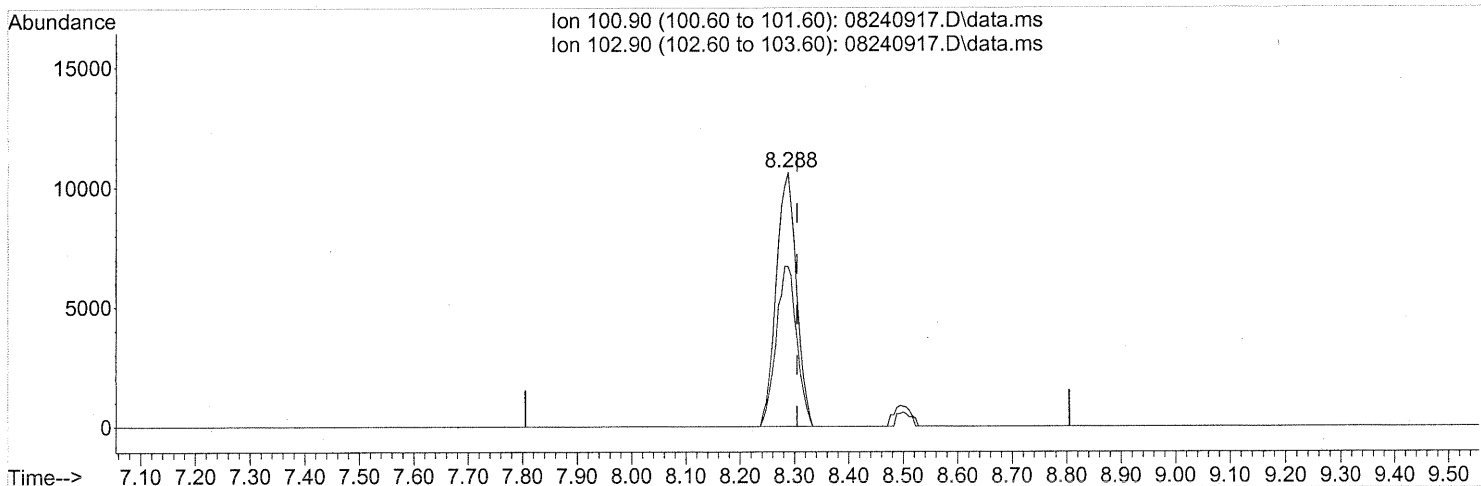
response 937658

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	310.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.017) 0.73ng

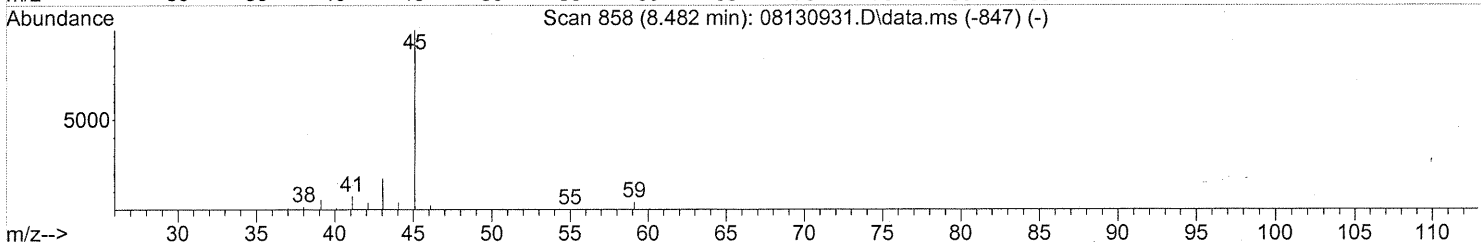
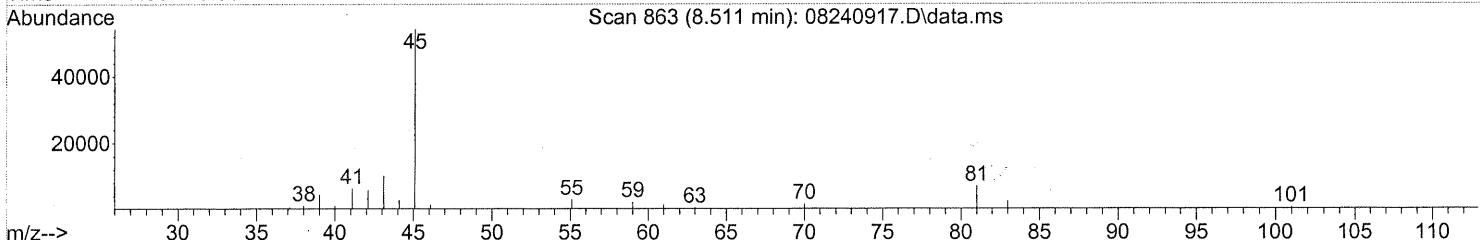
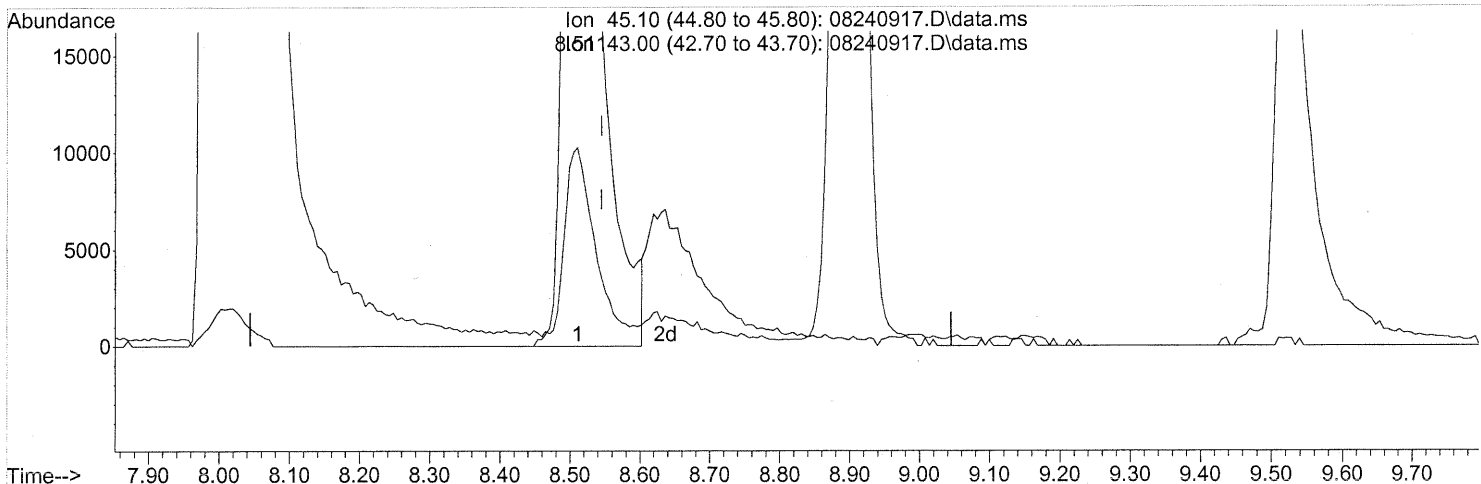
response 27316

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	64.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

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

8.511min (-0.034) 3.10ng

response 167149

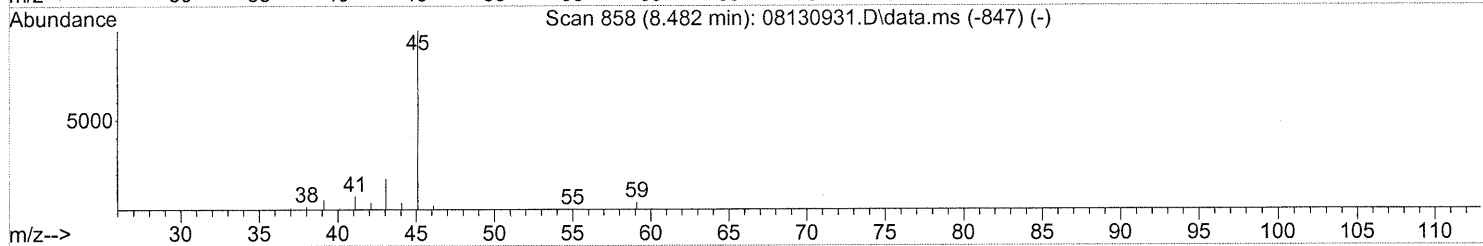
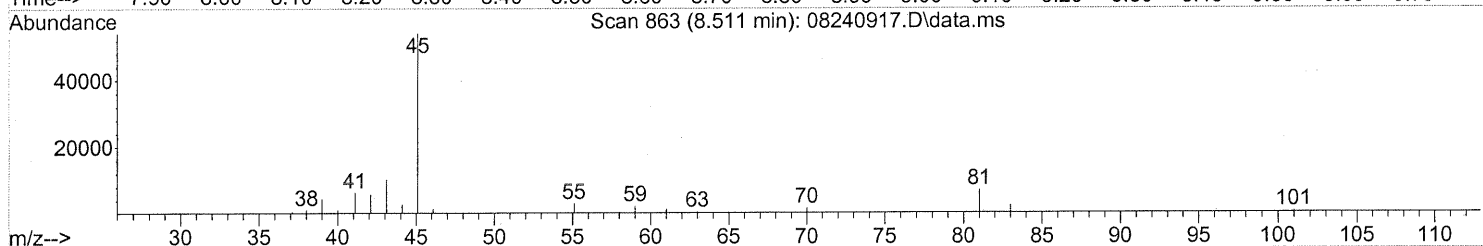
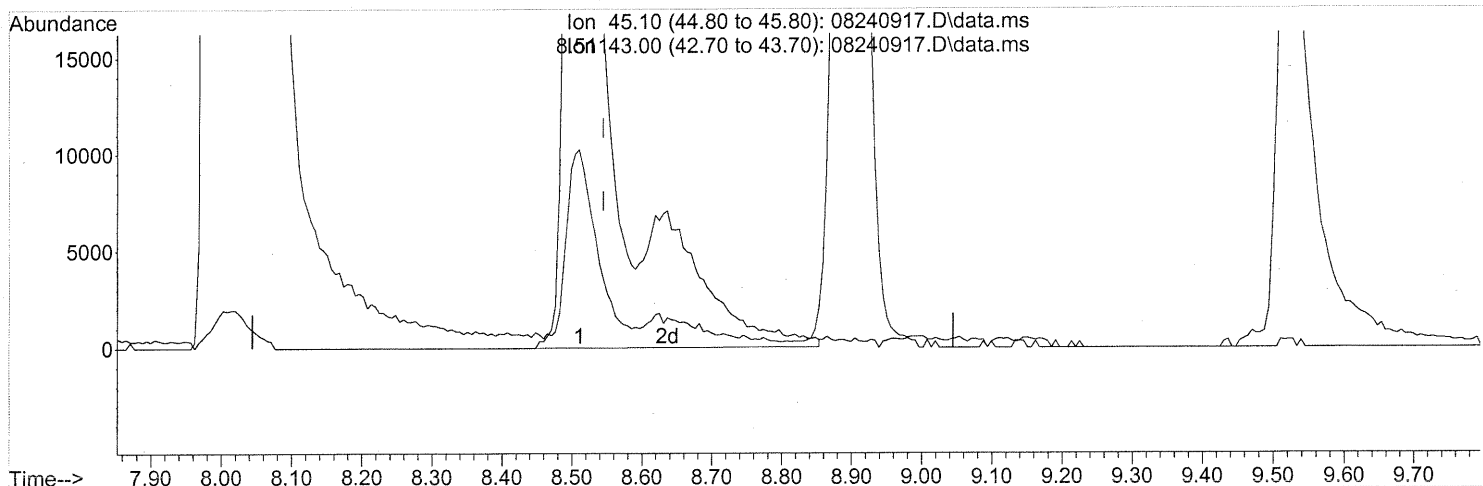
PT

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 25 07:37:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

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

8.511min (-0.034) 3.84ng m

response 207074

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	13.87
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

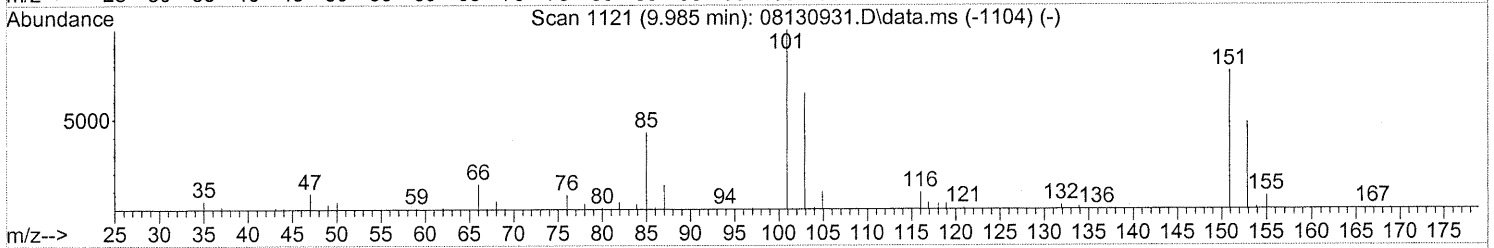
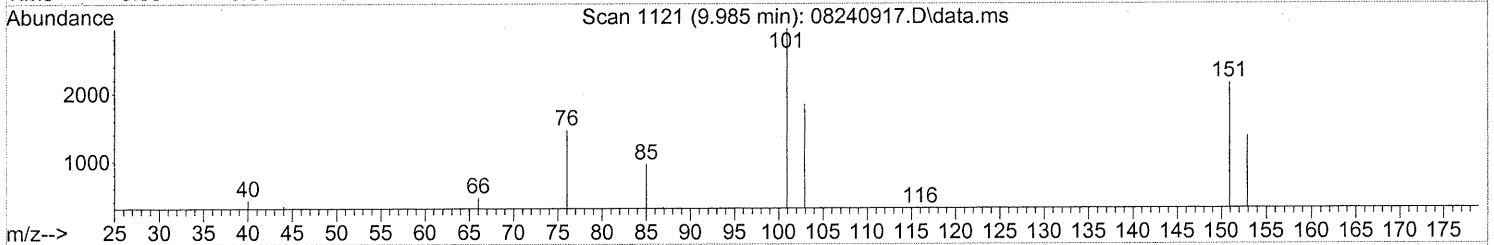
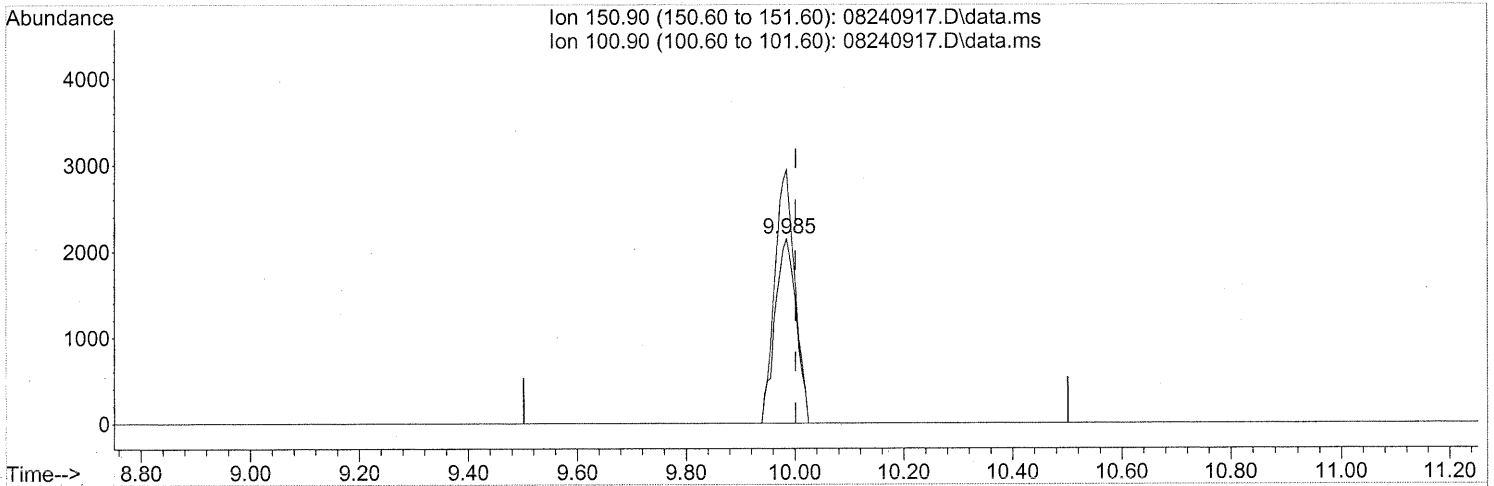
com 8/27/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.34ng

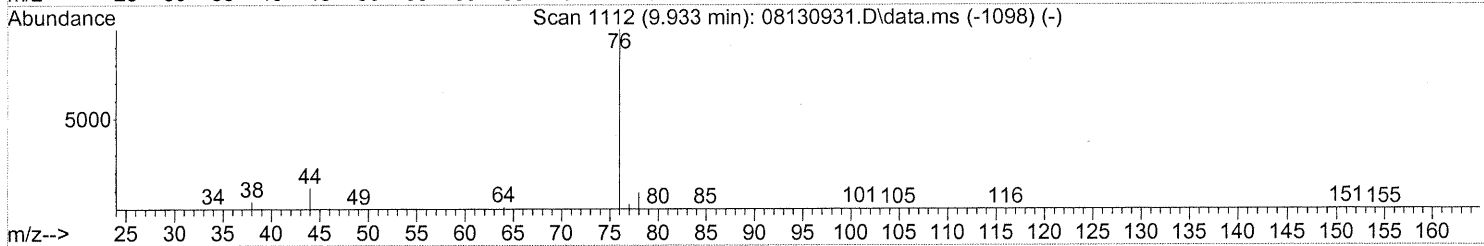
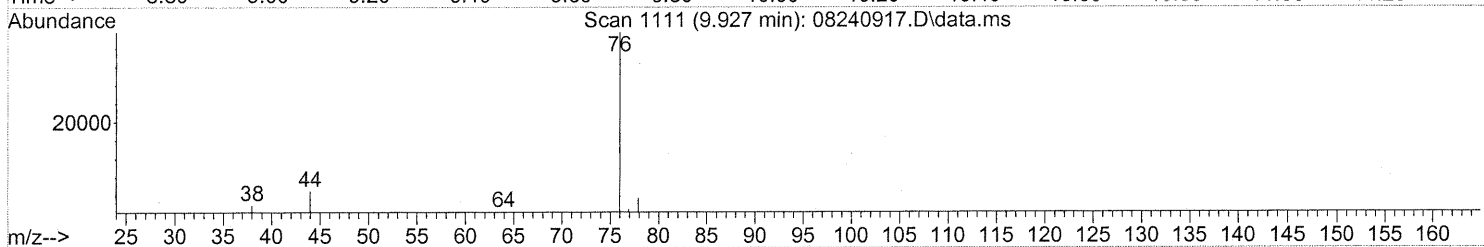
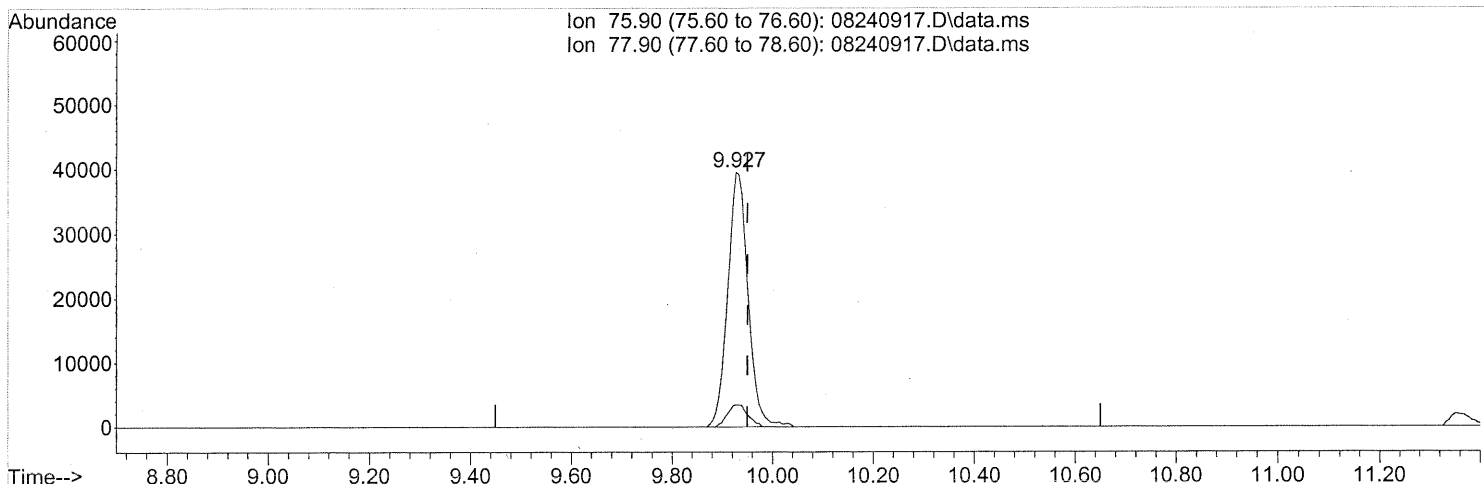
response 5734

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	130.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(22) Carbon Disulfide (T)

9.927min (-0.023) 1.28ng

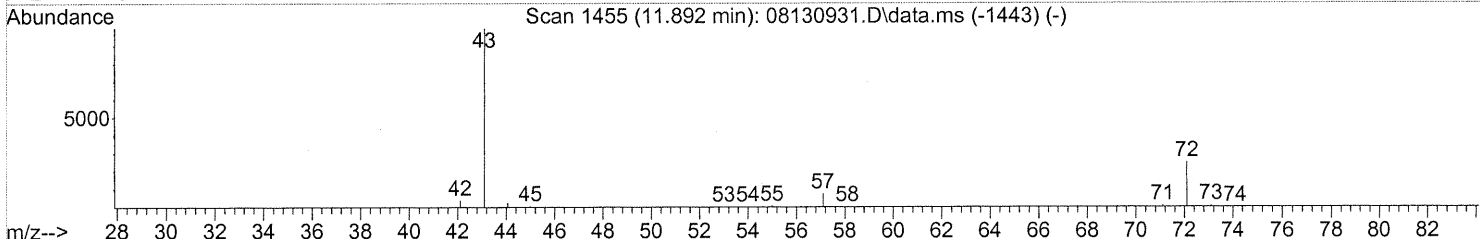
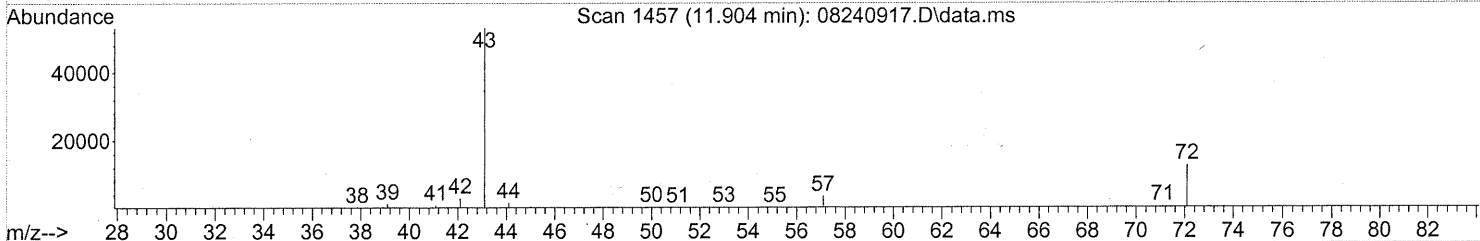
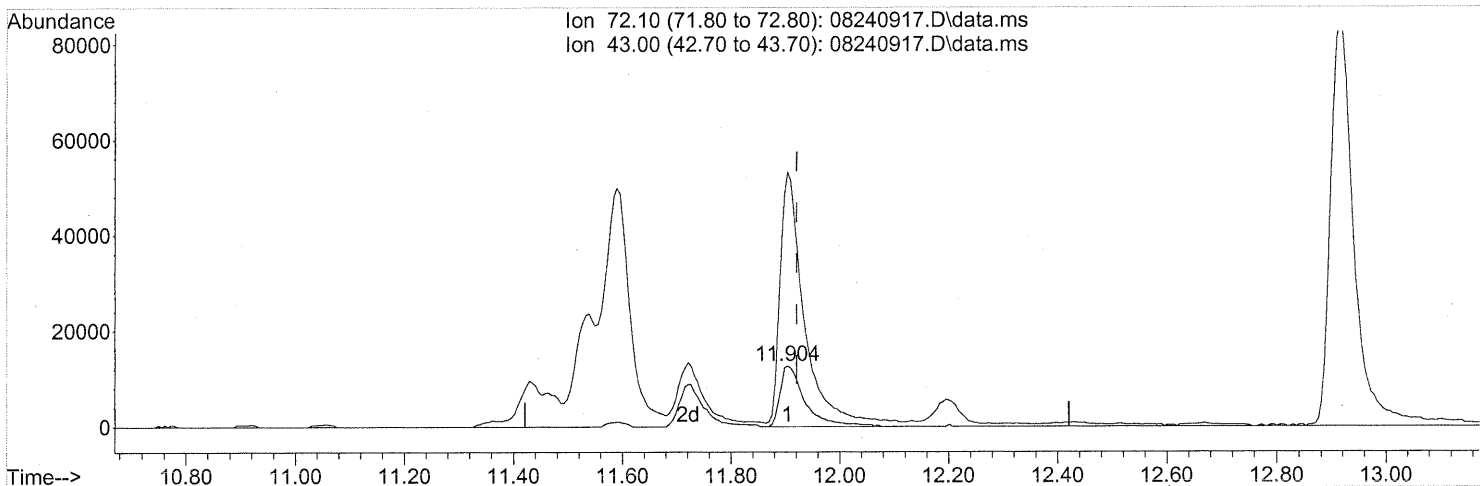
response 111100

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

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

11.904min (-0.017) 2.89ng

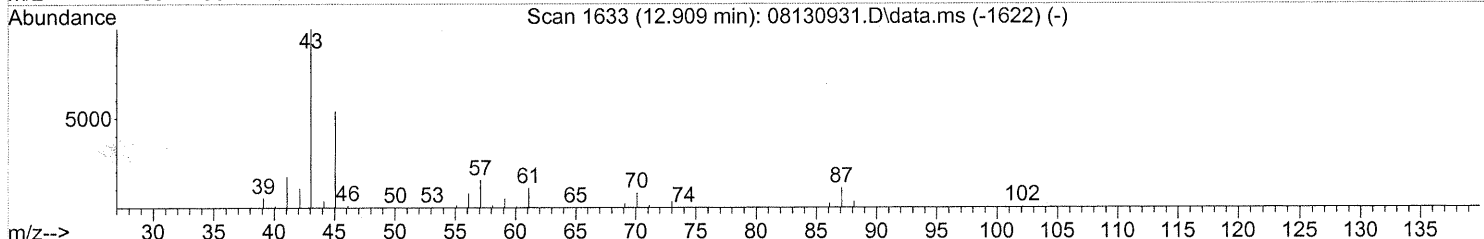
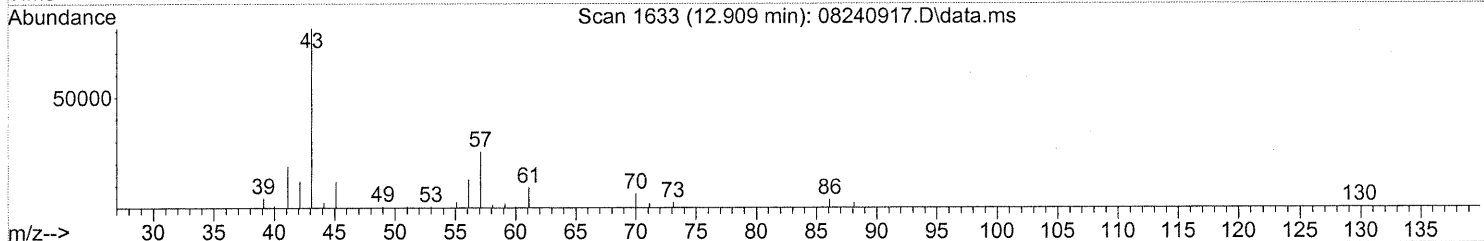
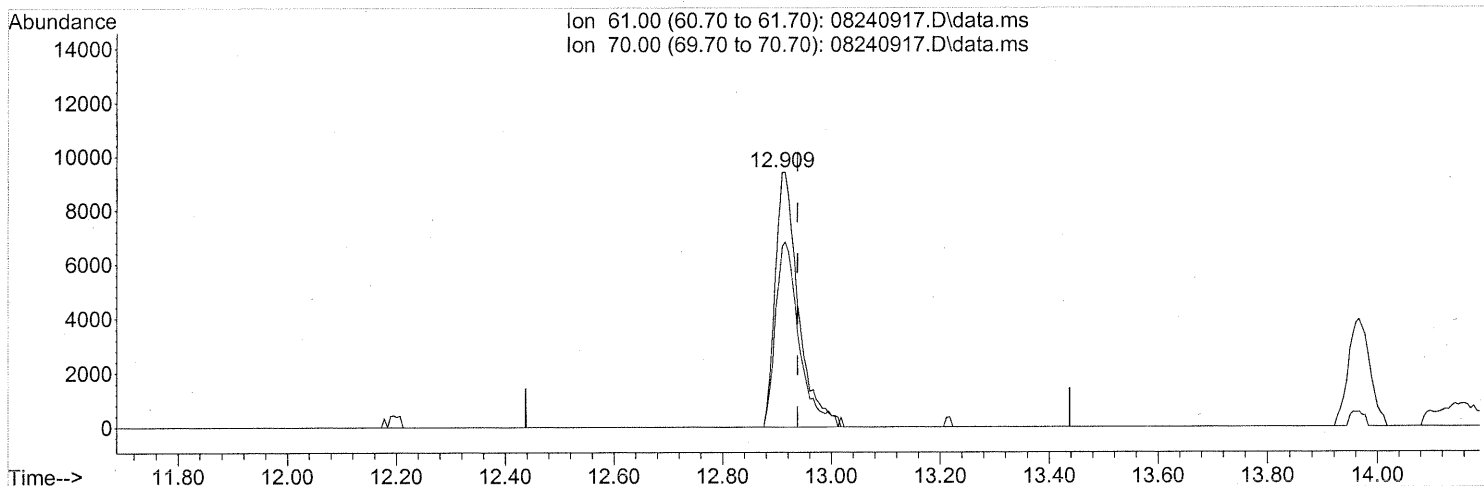
response 39713

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	395.09#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

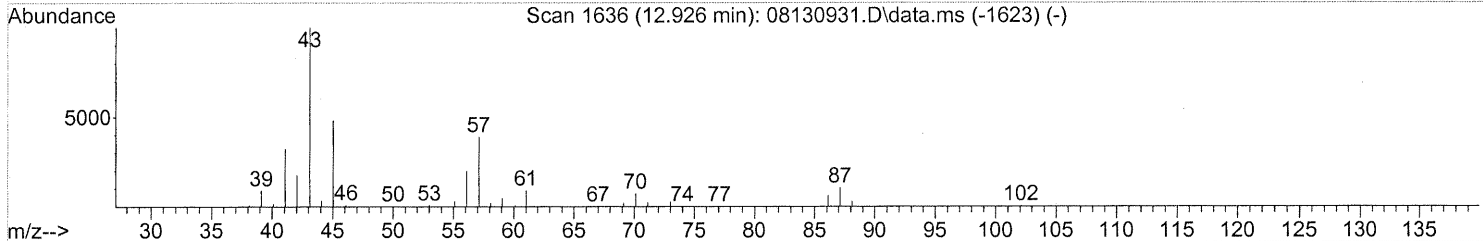
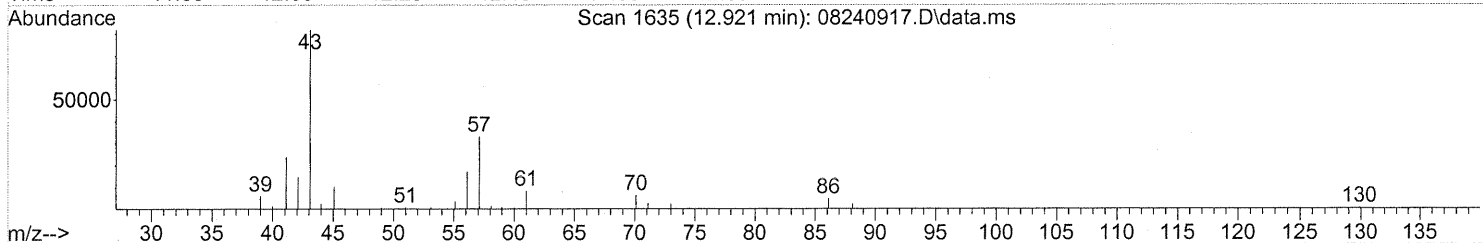
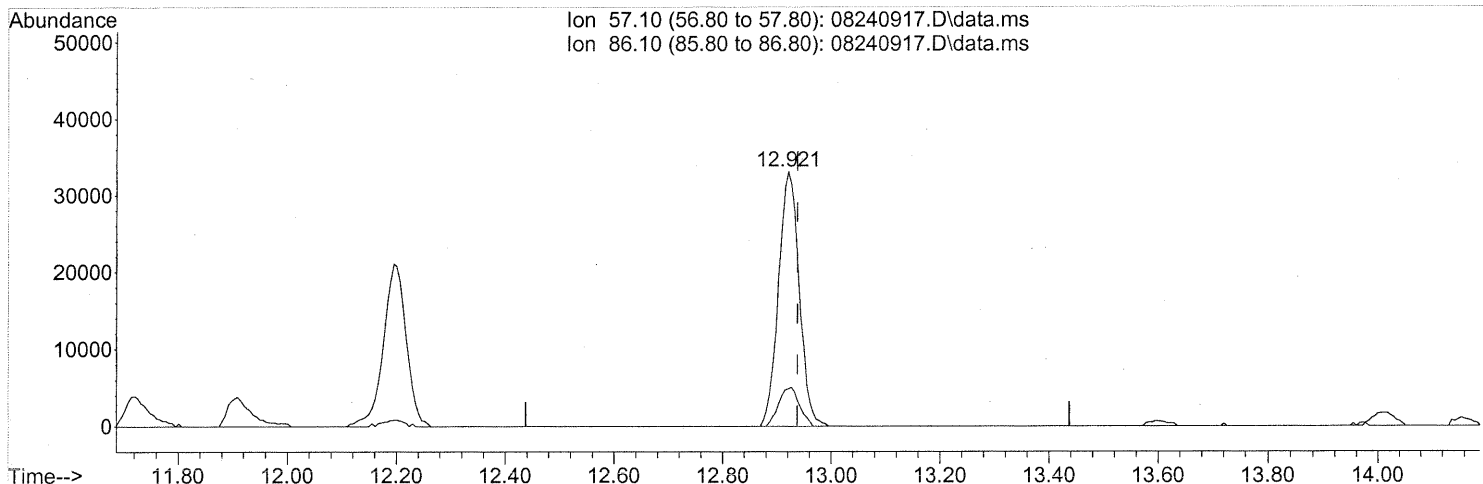
(30) Ethyl Acetate (T)
 12.909min (-0.029) 3.11ng
 response 27672

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	74.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

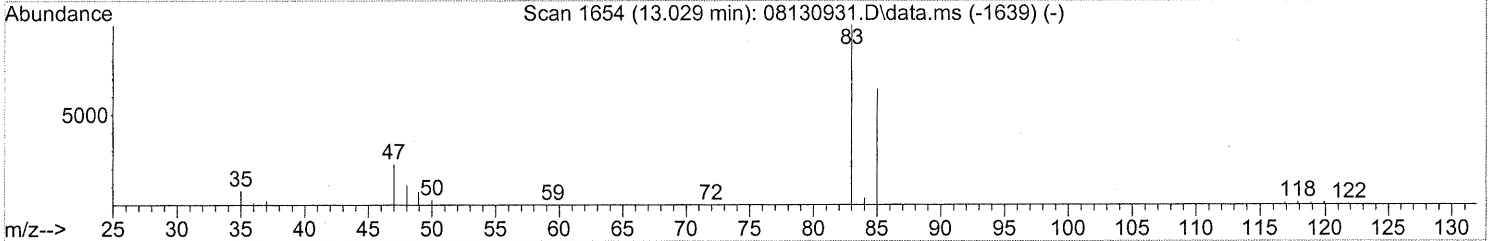
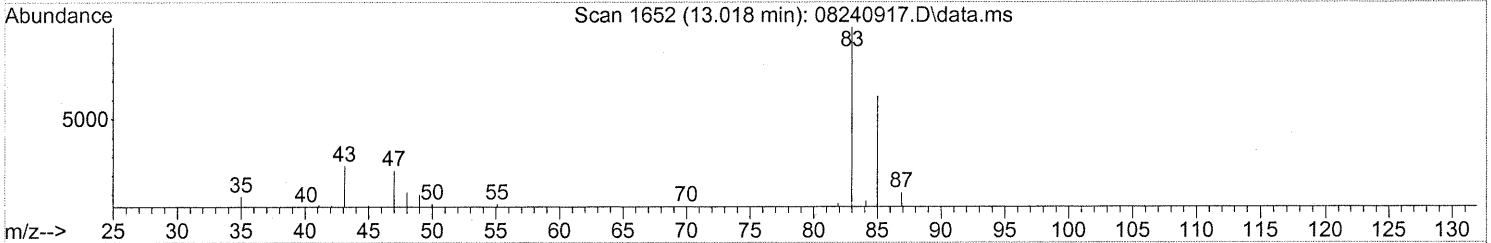
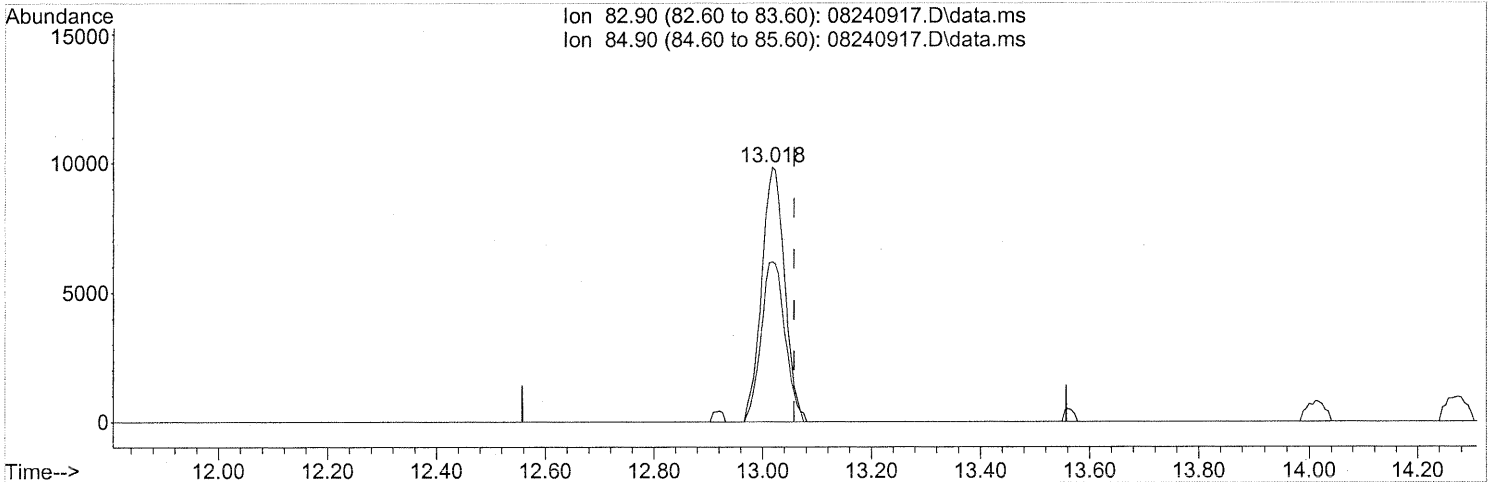
(31) n-Hexane (T)
 12.921min (-0.017) 2.01ng
 response 87166

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(32) Chloroform (T)

13.018min (-0.040) 0.79ng

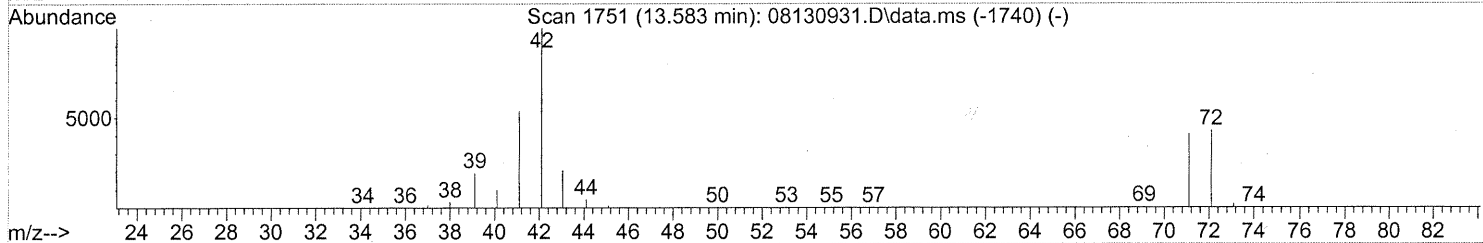
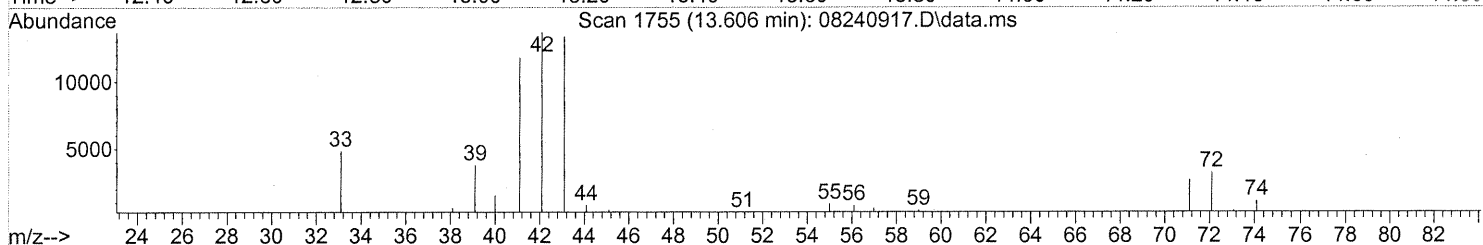
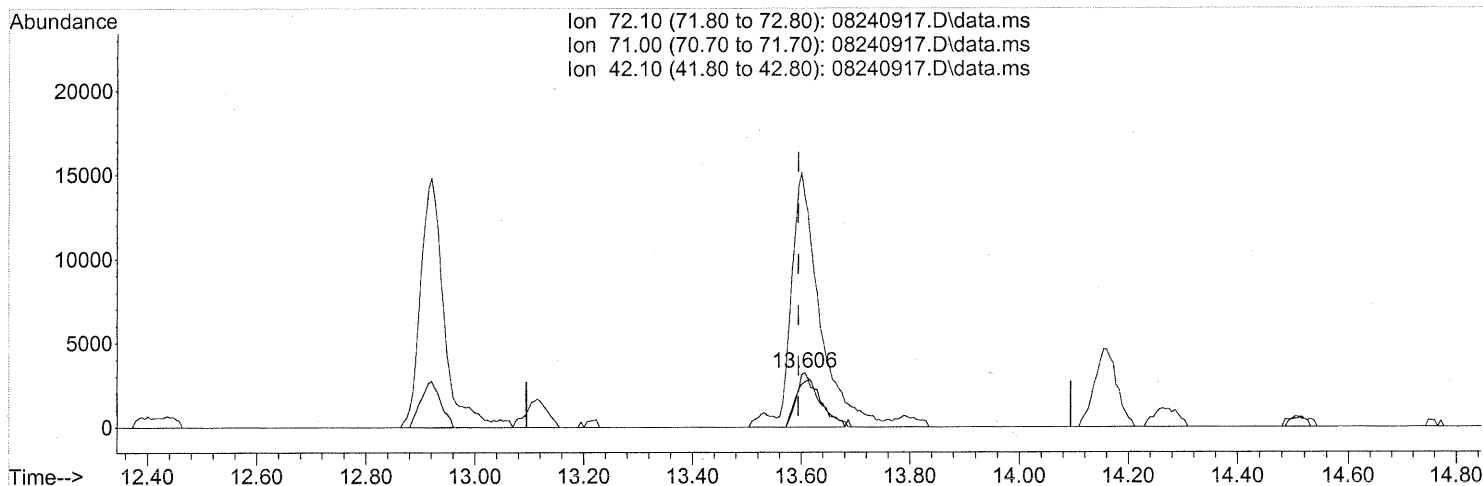
response 28814

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.606min (+0.011) 0.69ng

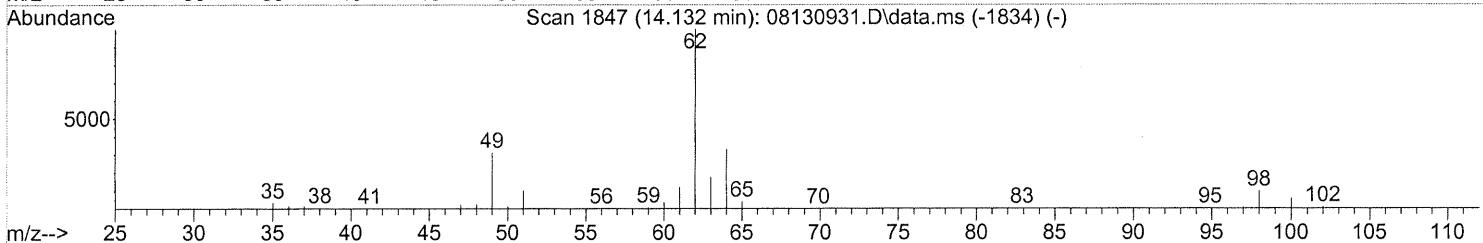
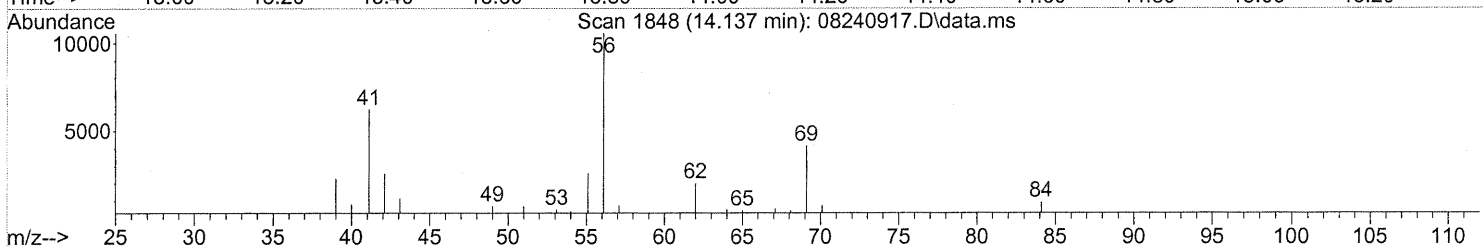
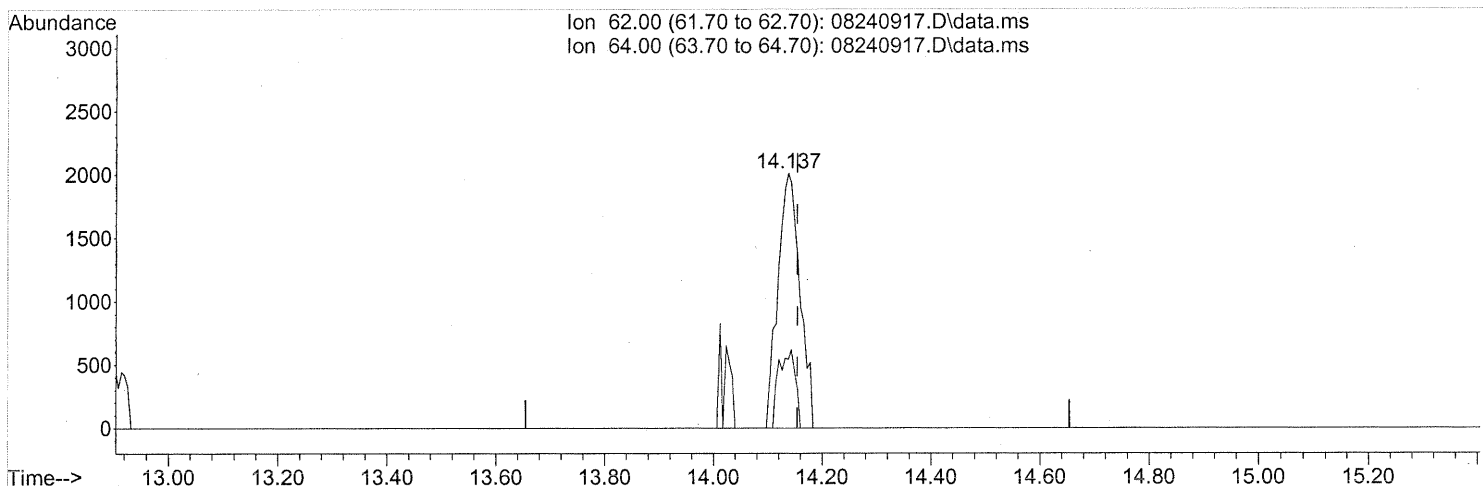
response 9798

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	91.14
42.10	206.50	551.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(36) 1,2-Dichloroethane (T)

14.137min (-0.017) 0.20ng

response 5636

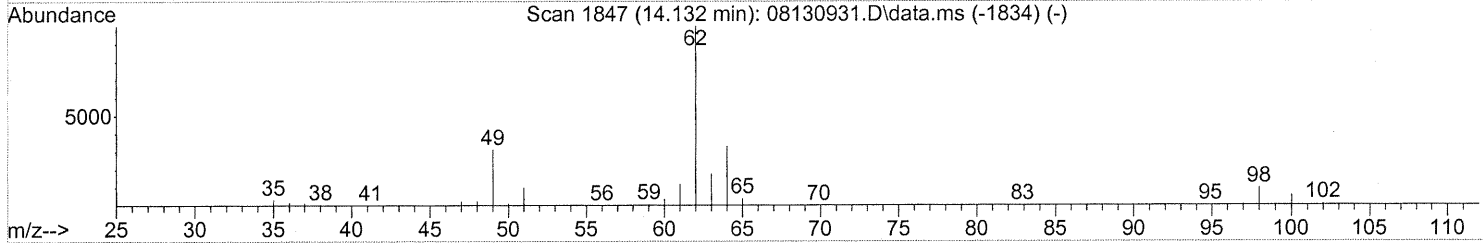
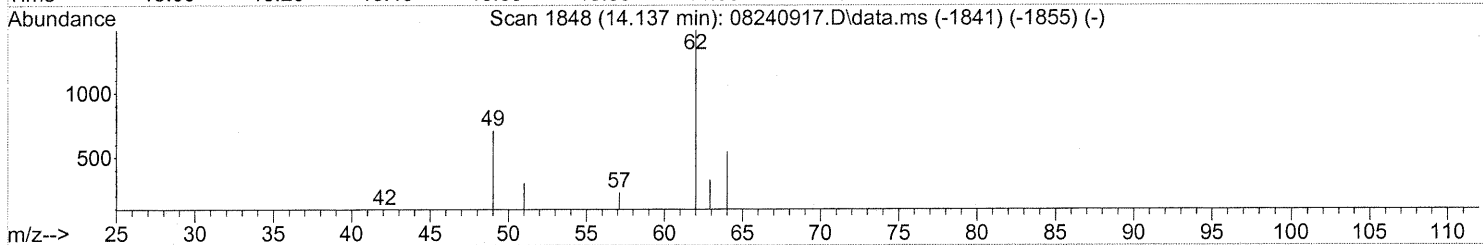
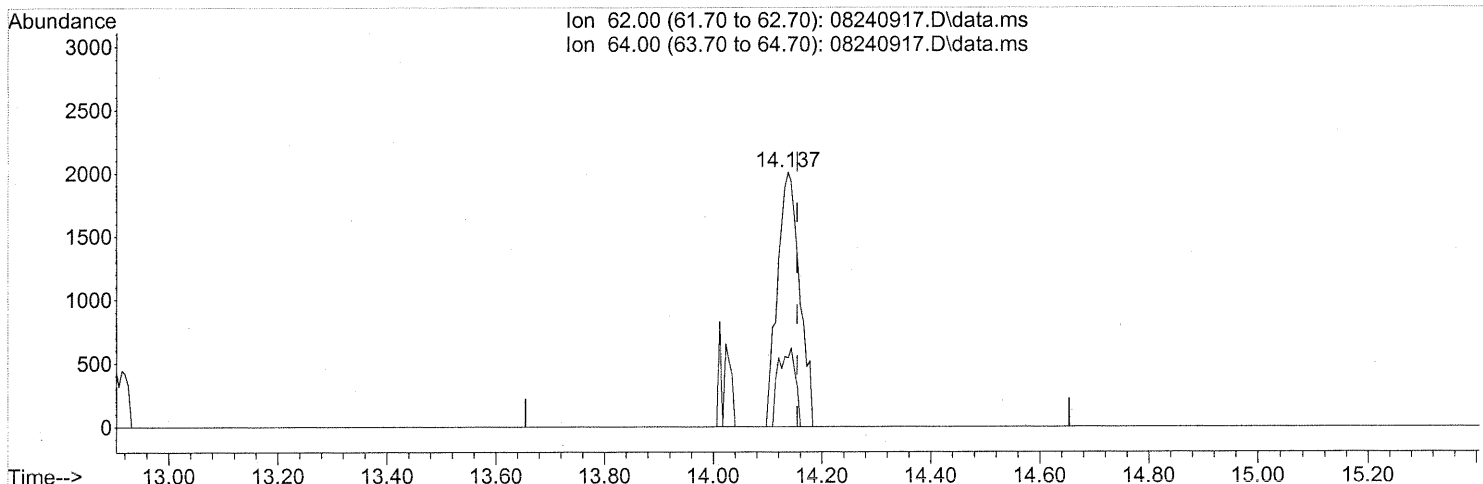
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	23.28
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(36) 1,2-Dichloroethane (T)

14.137min (-0.017) 0.20ng

response 5636

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	23.28
0.00	0.00	0.00
0.00	0.00	0.00

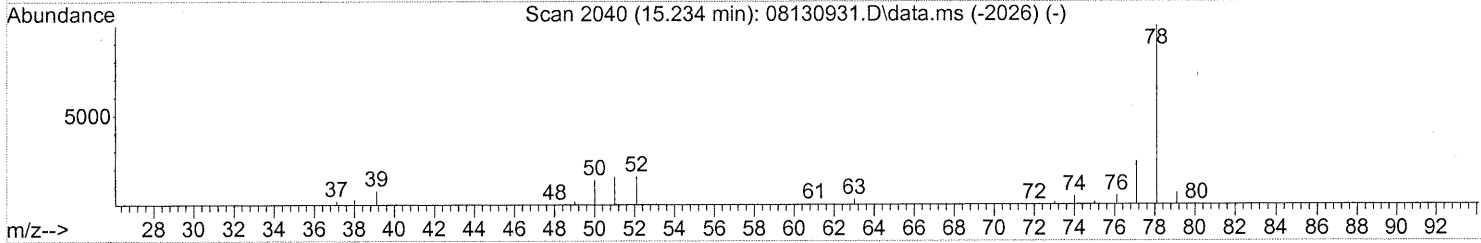
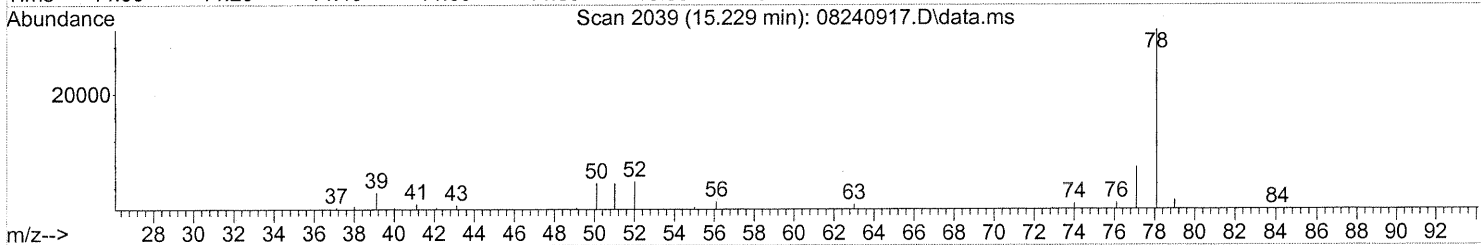
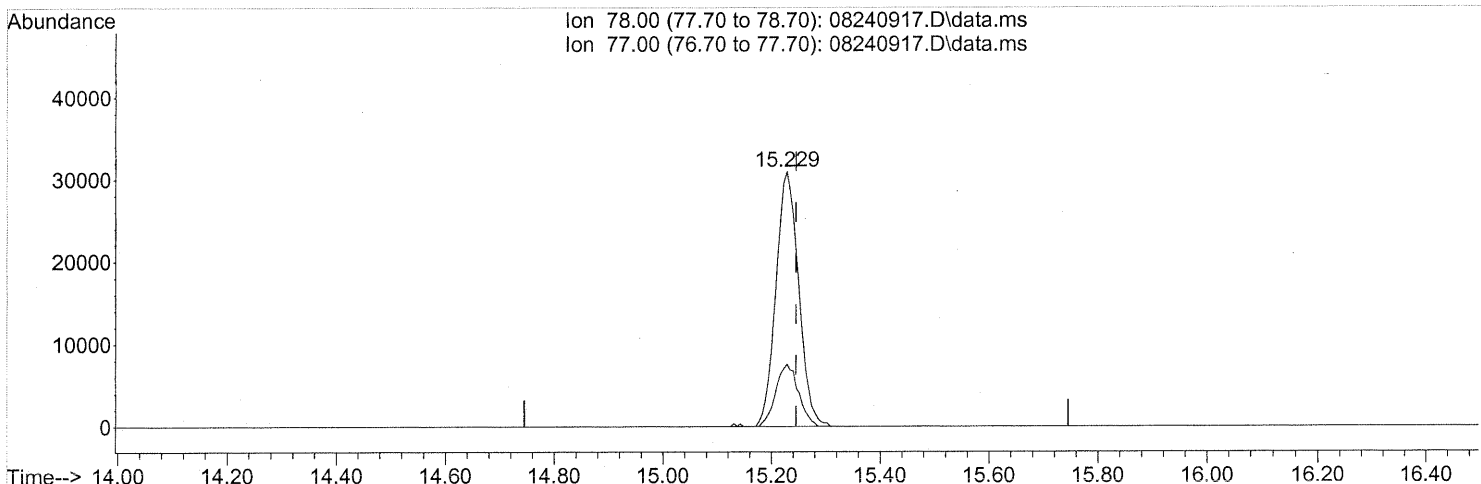
After subtraction
em 8/27/09

CR 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240917.D
Acq On : 24 Aug 2009 19:47
Operator : EM
Sample : P0902832-001 (1000ml)
Misc : Eng. H&E 101654
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08240917.D\data.ms

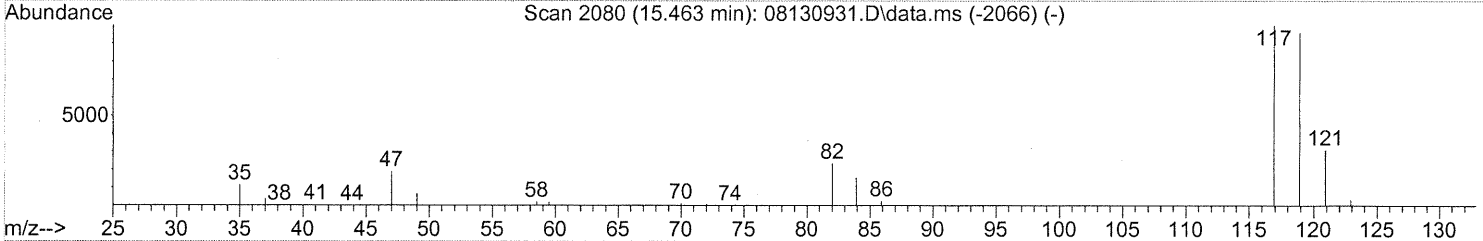
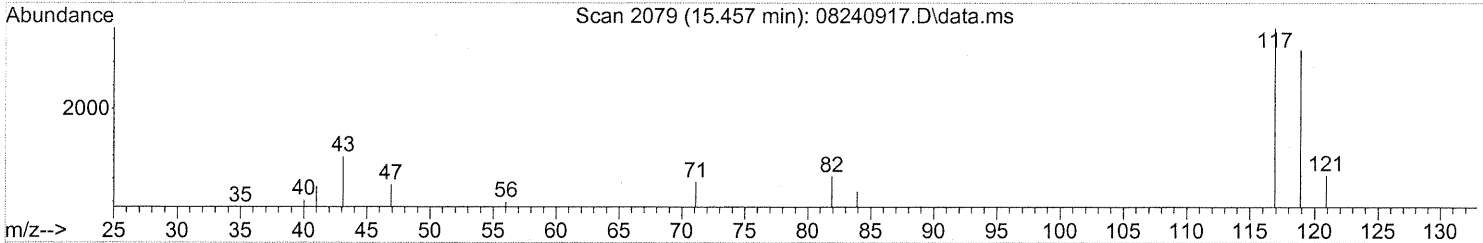
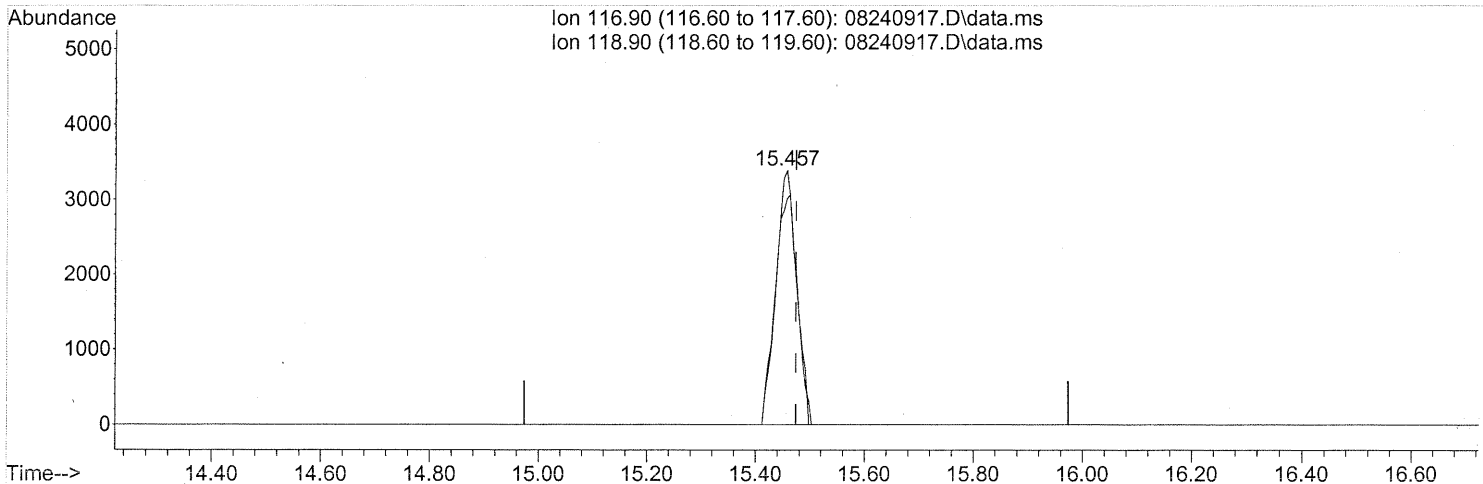
(41) Benzene (T)
15.229min (-0.017) 0.93ng
response 89597

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.33ng

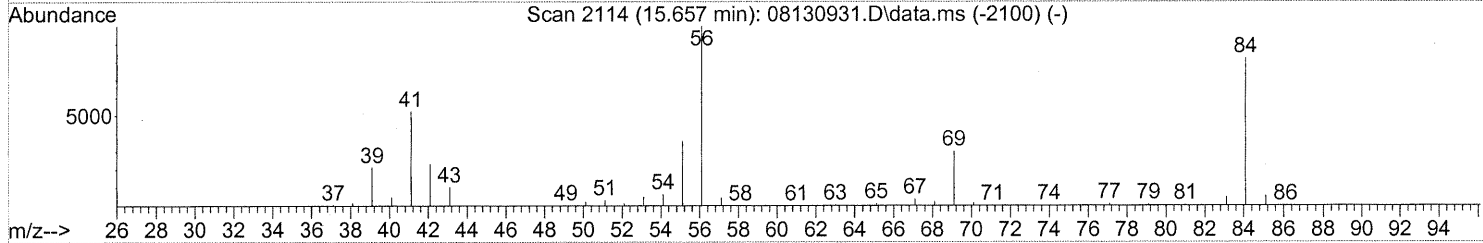
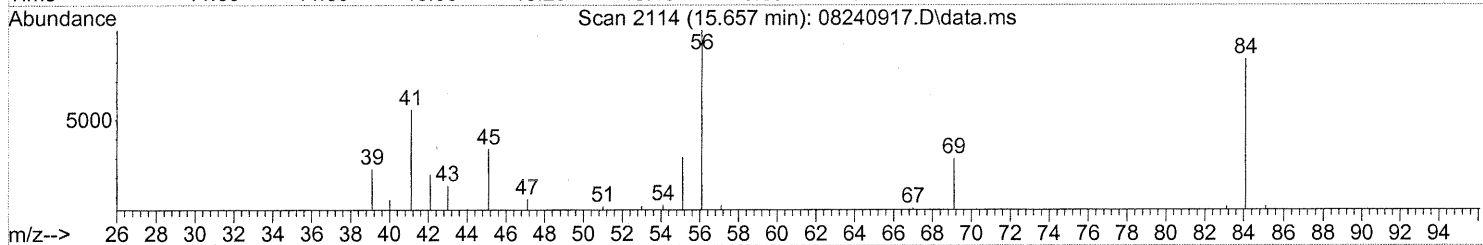
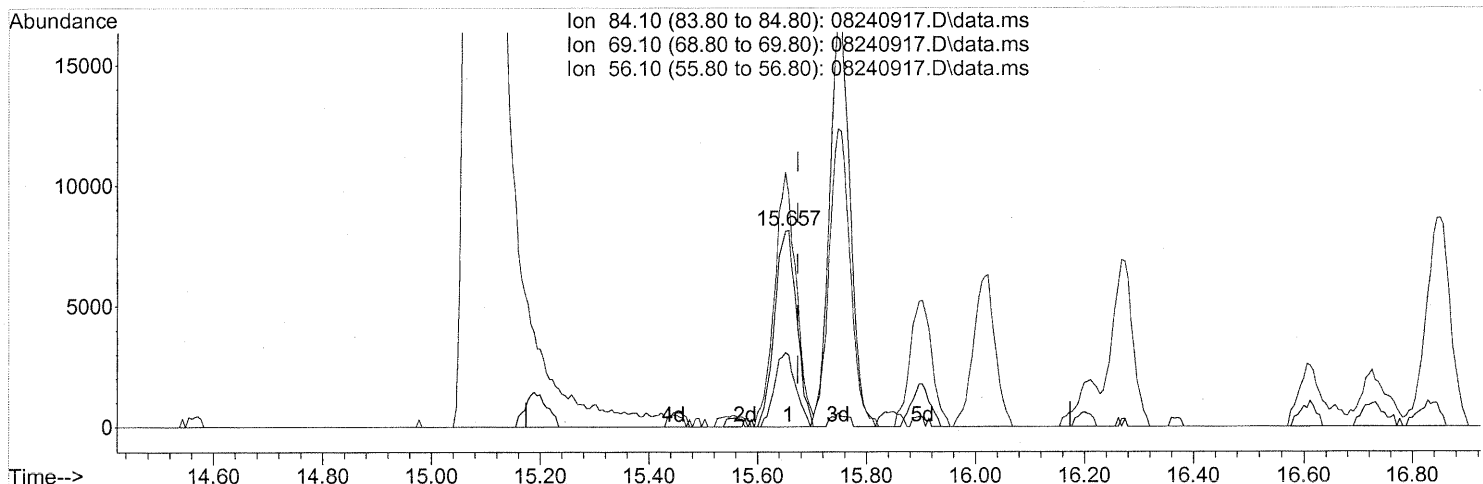
response 8929

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	95.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

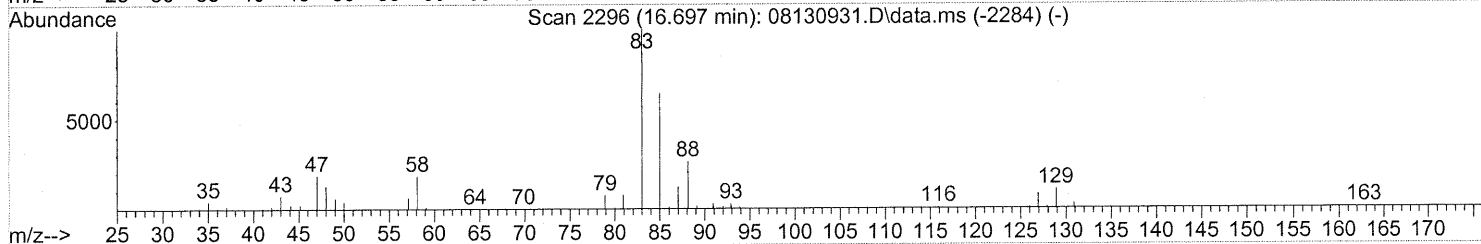
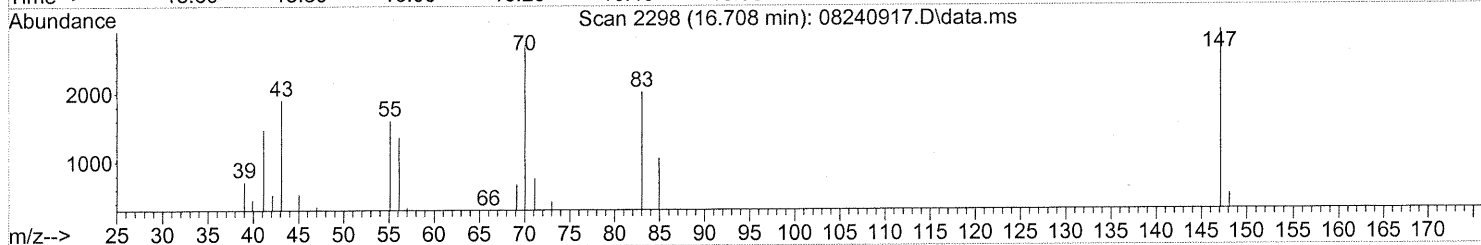
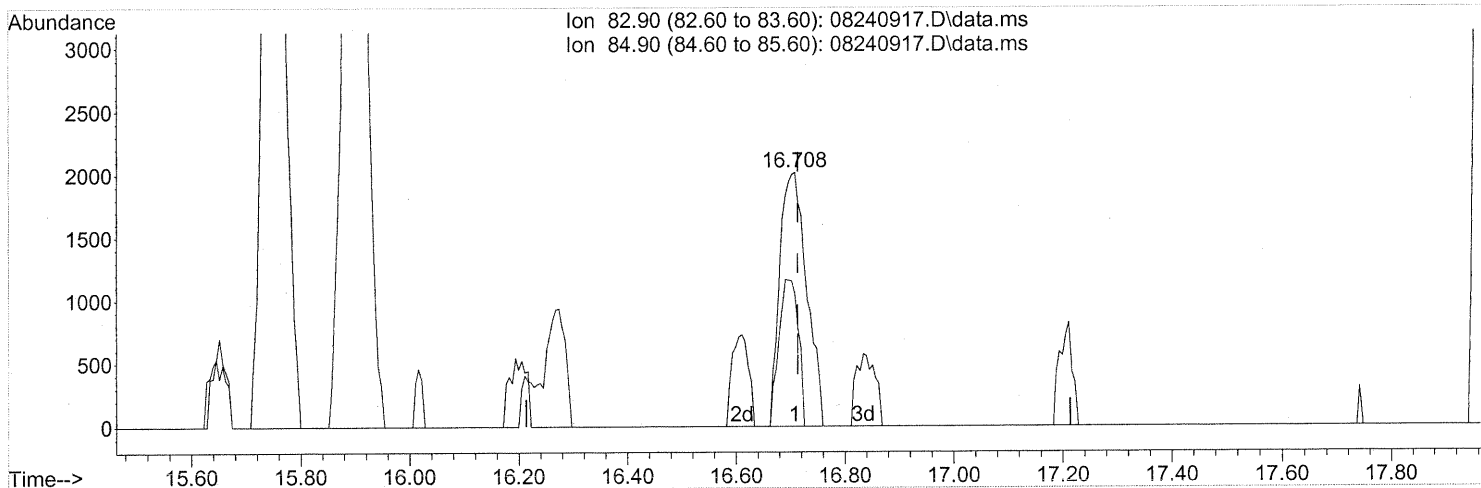
(43) Cyclohexane (T)
 15.657min (-0.017) 0.61ng
 response 22882

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	36.44
56.10	107.30	127.85#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.708min (-0.006) 0.24ng

response 6845

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	41.59#
0.00	0.00	0.00
0.00	0.00	0.00

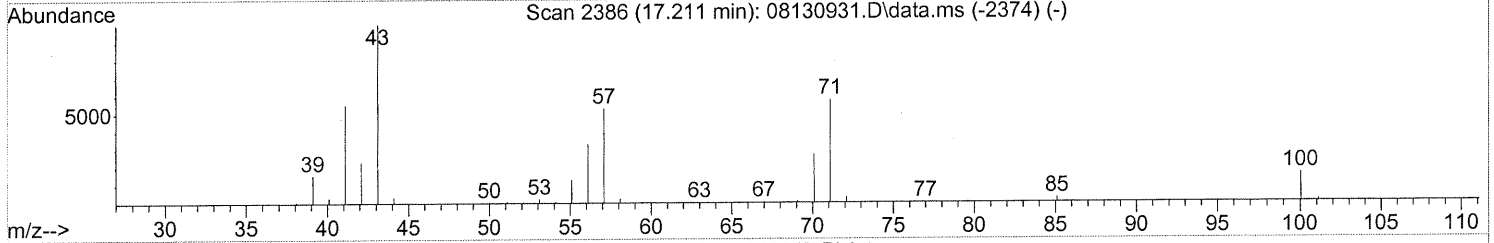
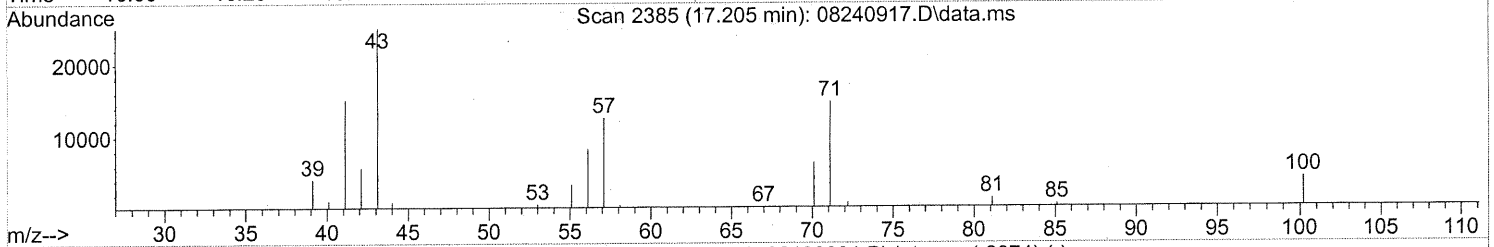
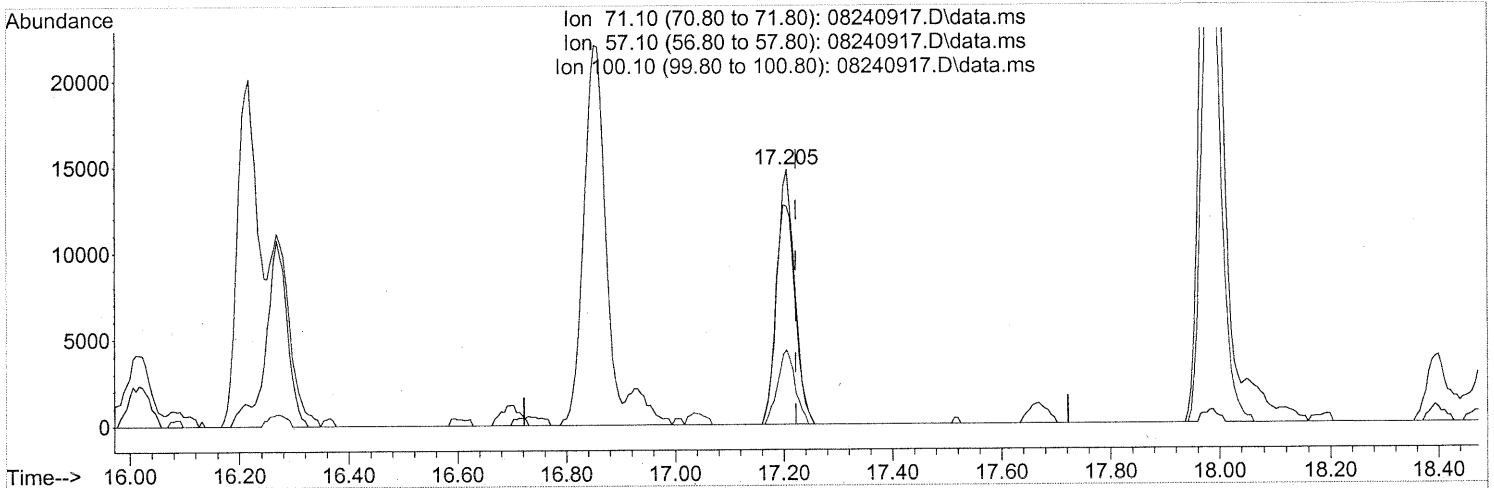
FP EM 8/27/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

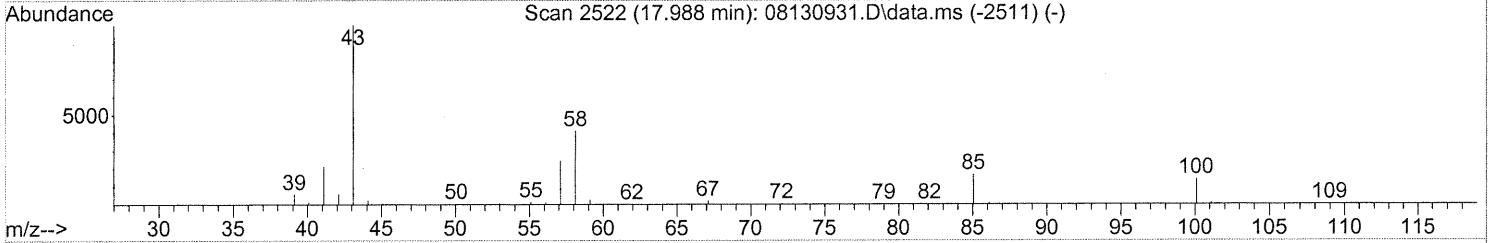
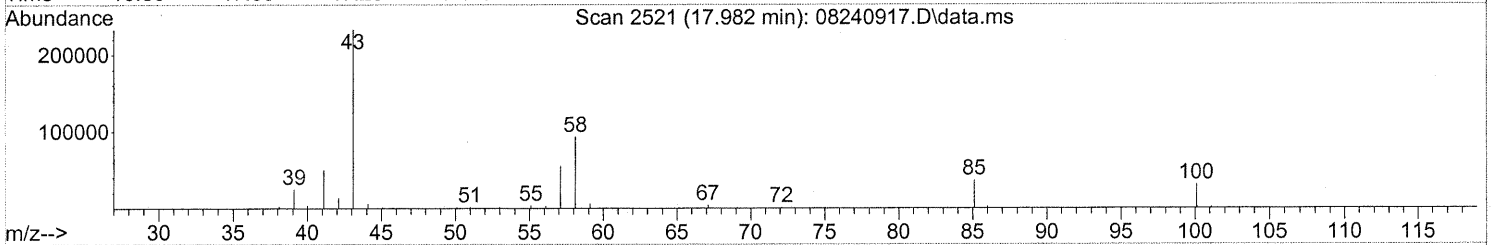
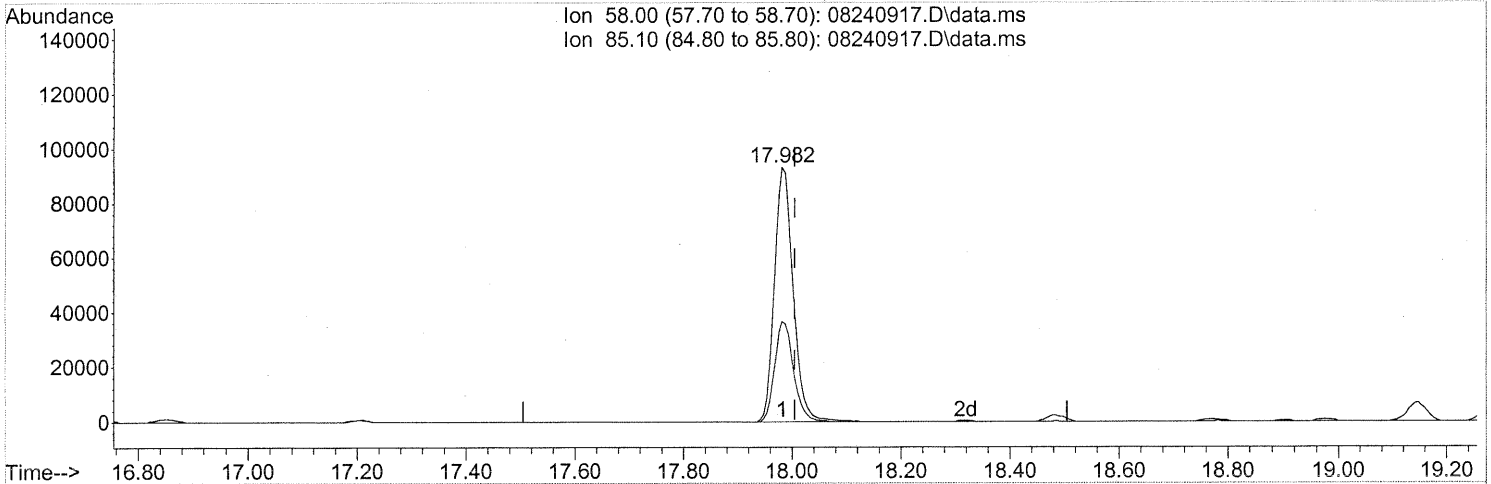
(51) n-Heptane (T)
 17.205min (-0.017) 1.30ng
 response 33253

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	92.87
100.10	30.70	28.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

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

17.982min (-0.023) 10.61ng

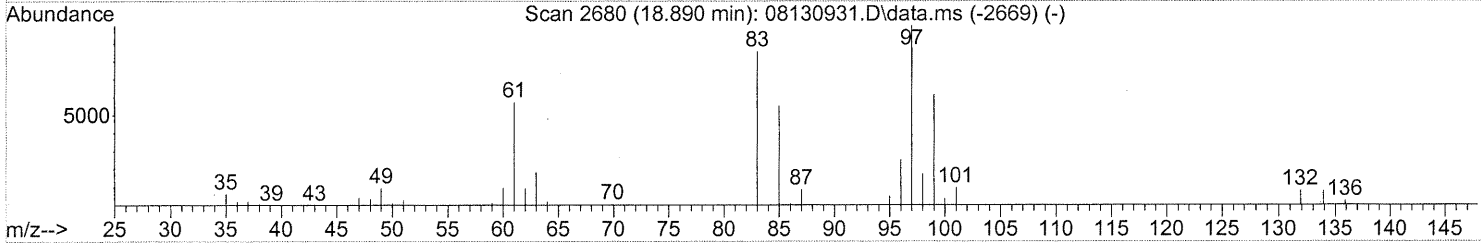
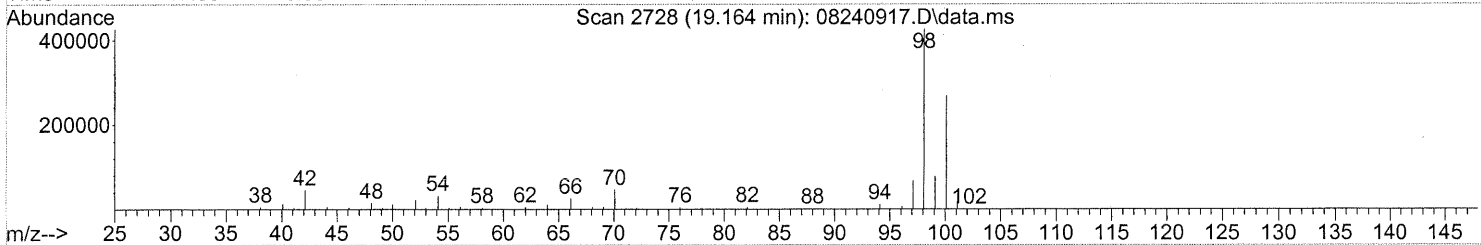
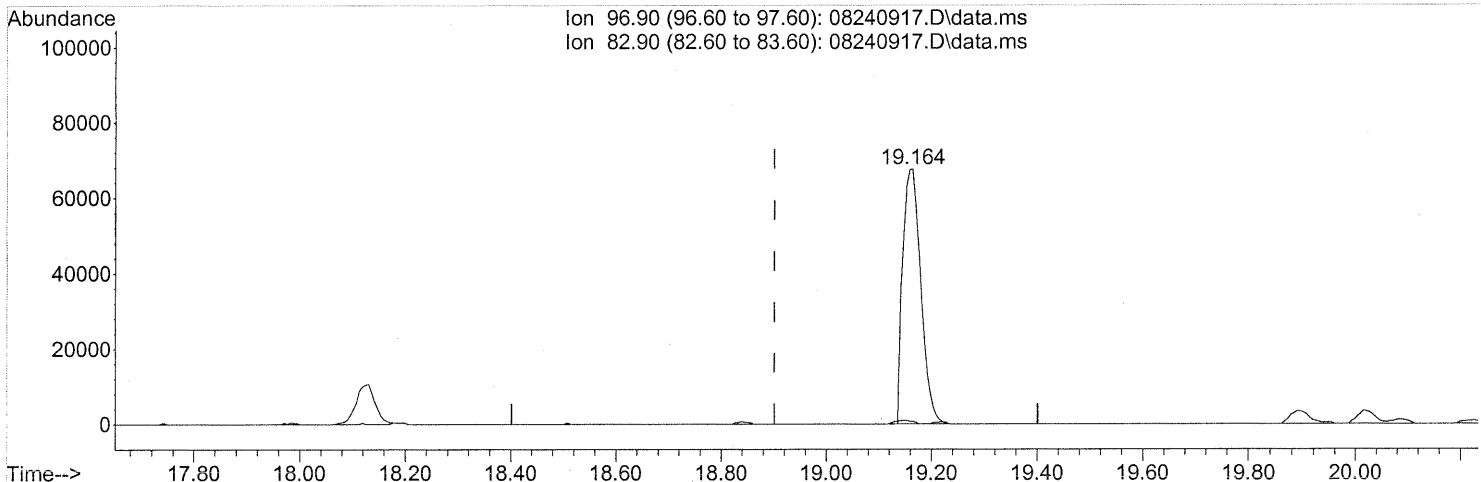
response 220769

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	39.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

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

19.164min (+0.263) 7.85ng

response 161485

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.25#
0.00	0.00	0.00
0.00	0.00	0.00

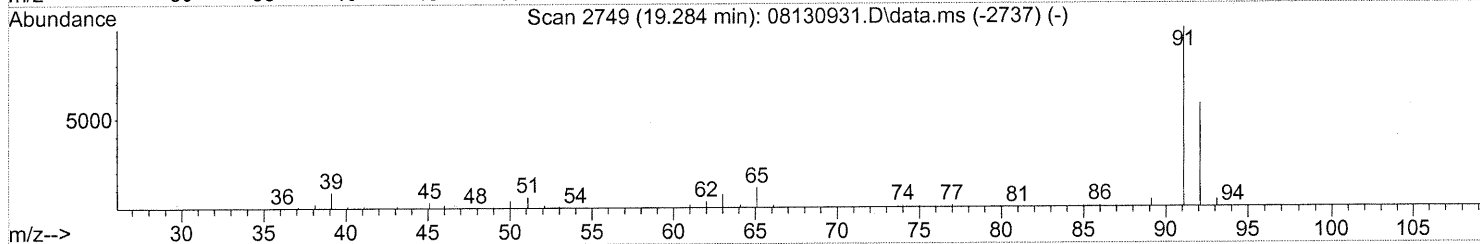
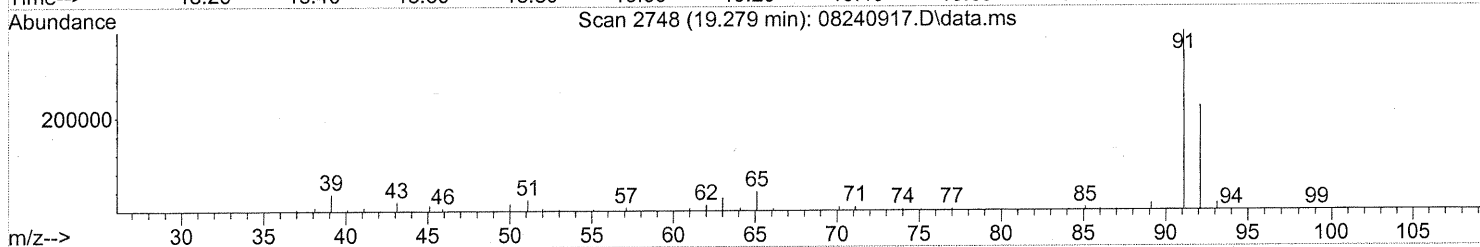
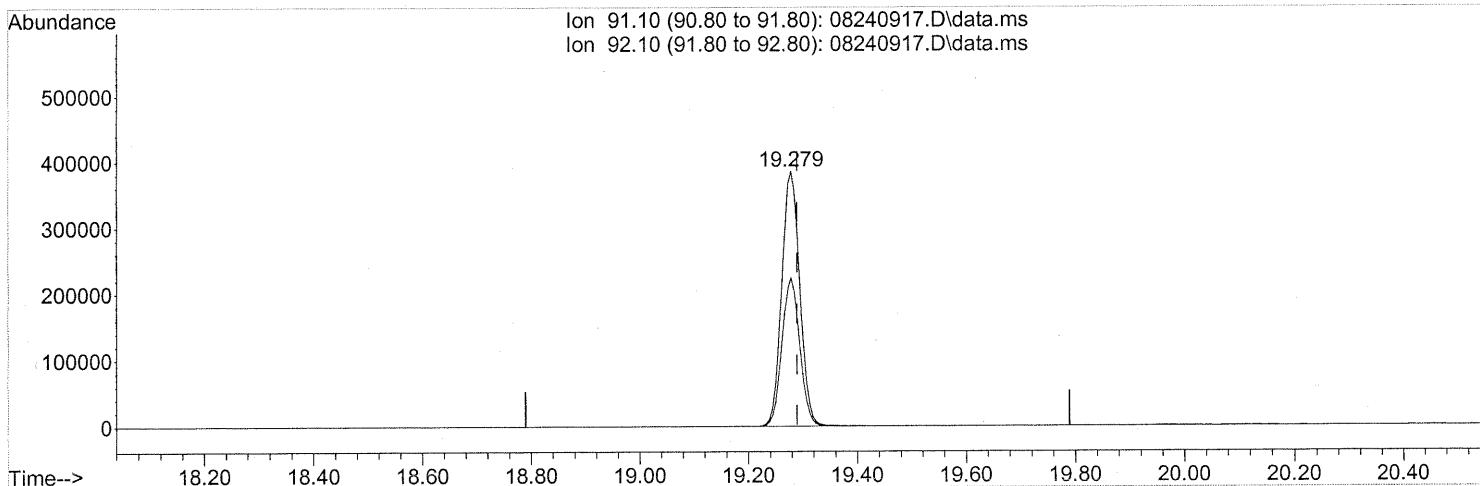
FP Em 8/27/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 9.19ng

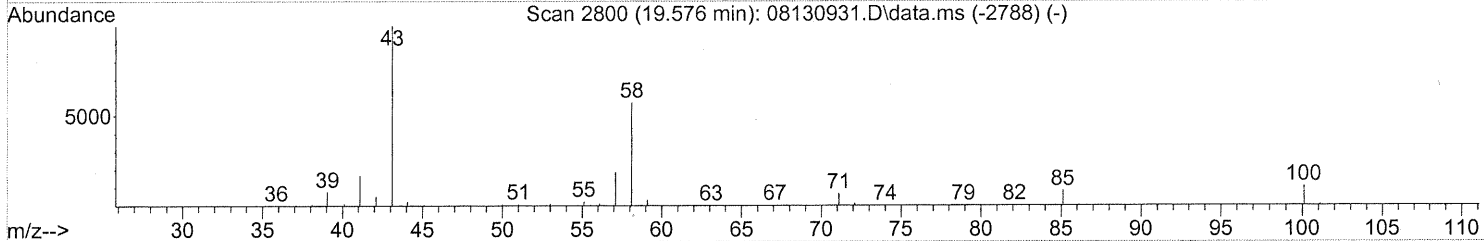
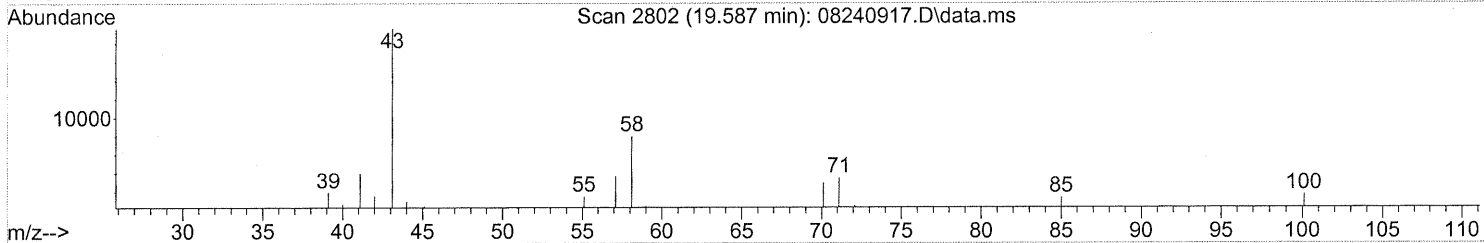
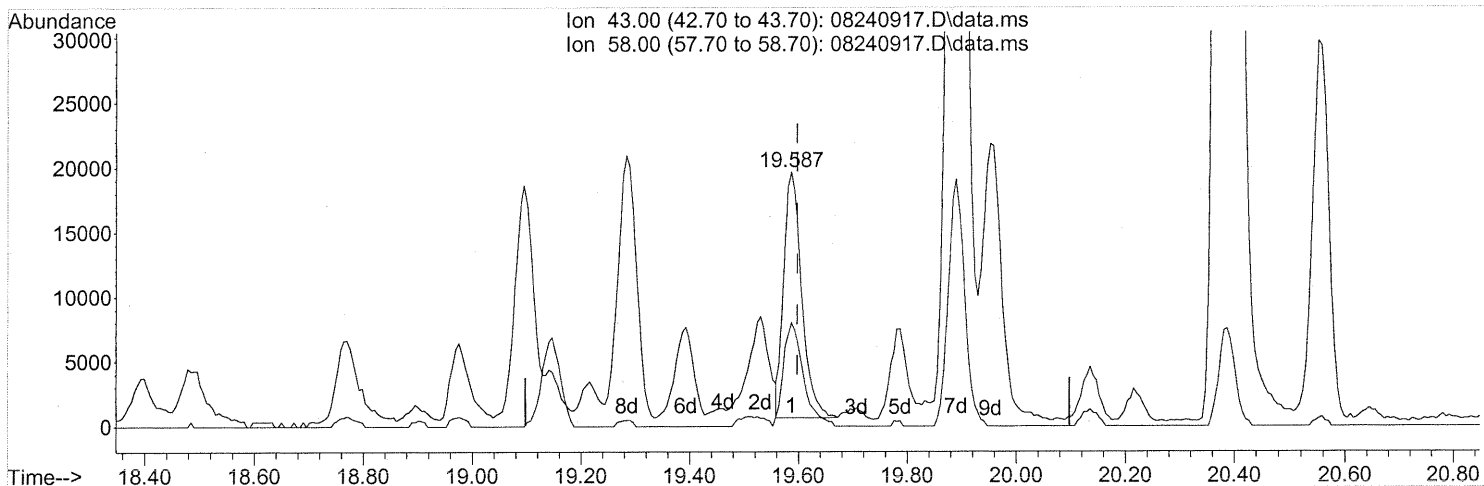
response 881103

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(59) 2-Hexanone (T)

19.587min (-0.011) 0.87ng

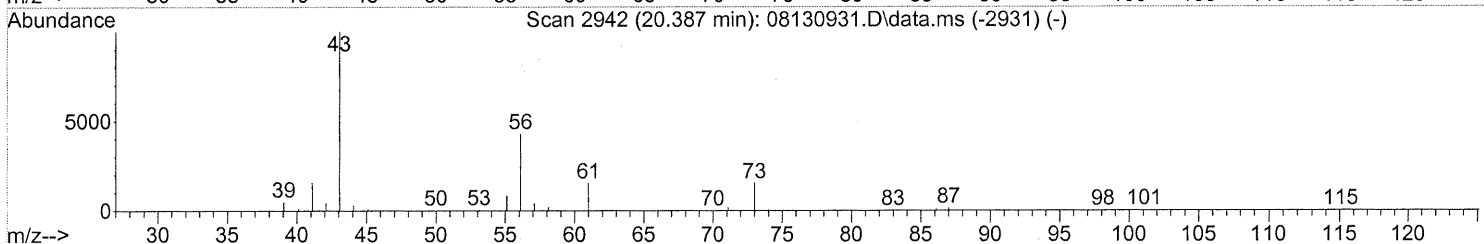
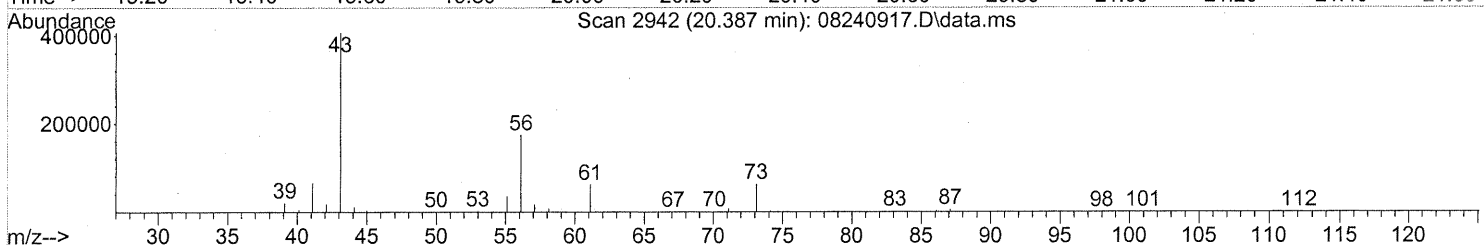
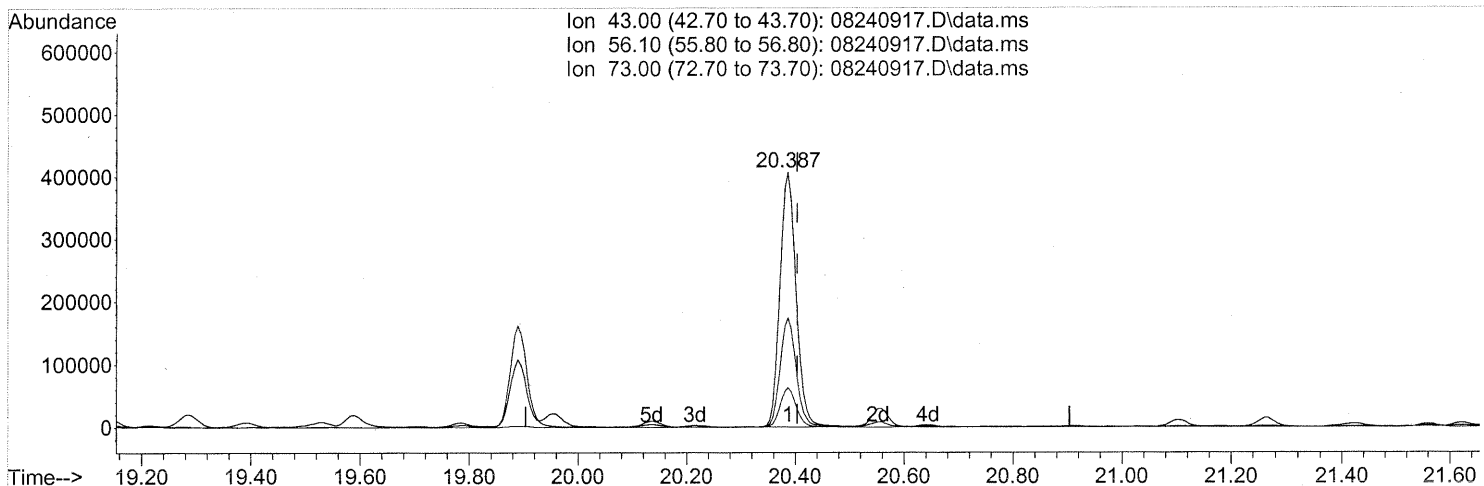
response 43344

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	46.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

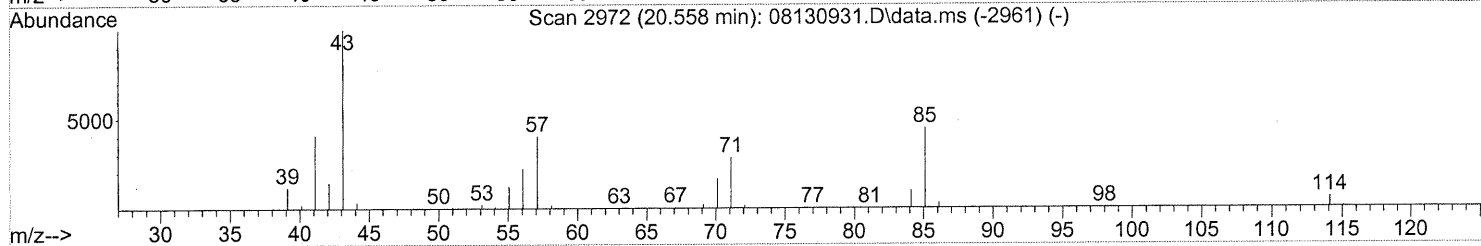
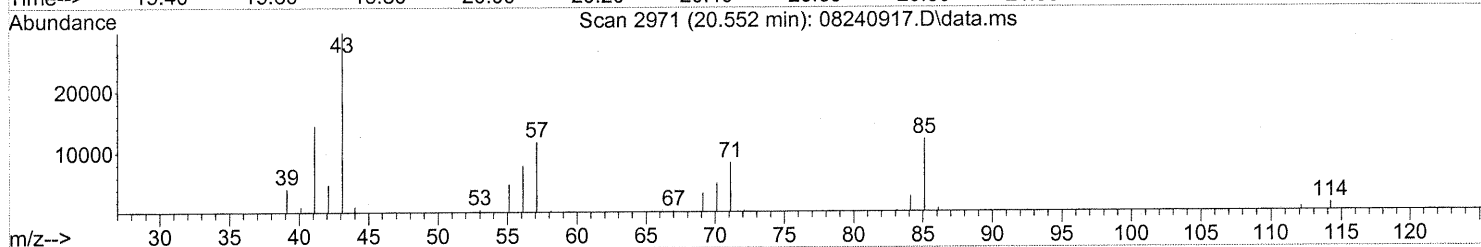
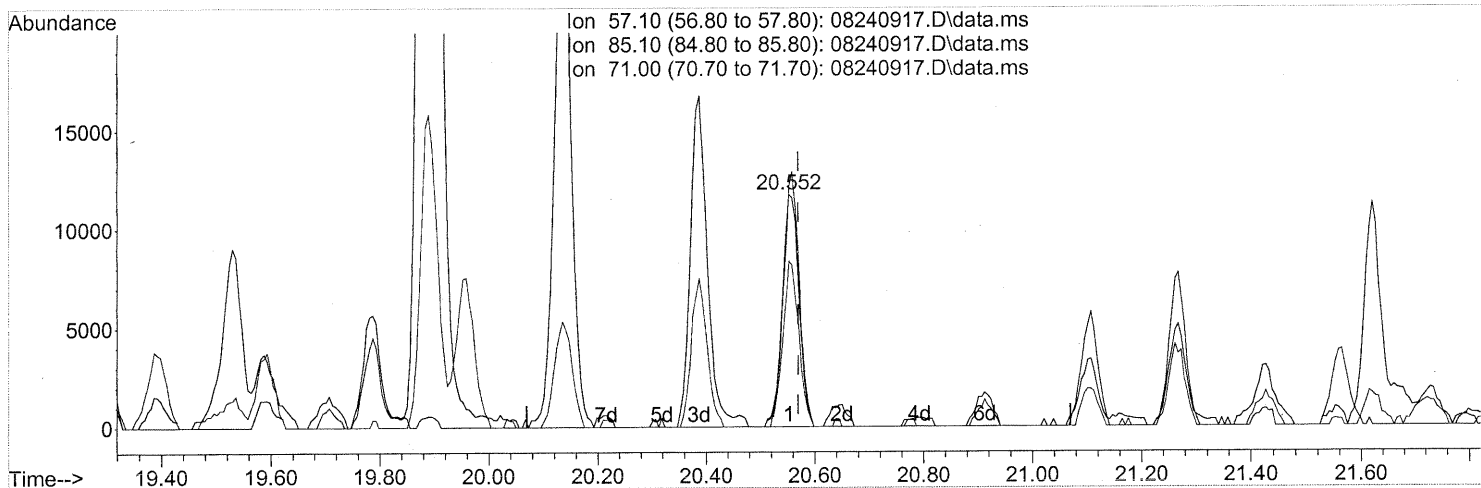
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 15.51ng
 response 843647

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	43.12
73.00	16.90	15.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

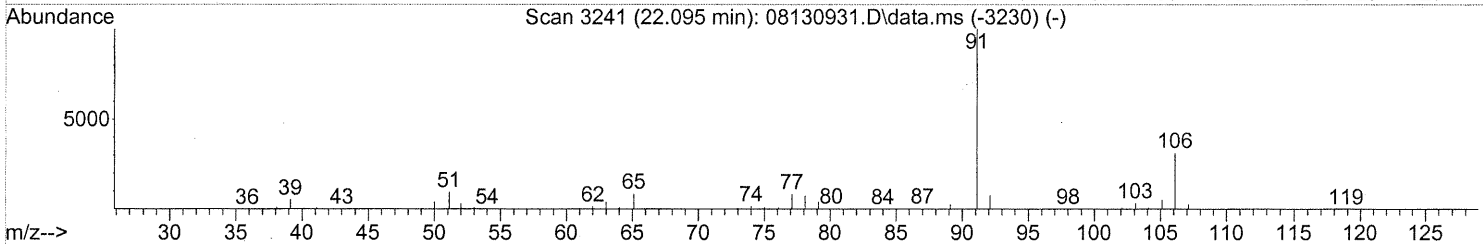
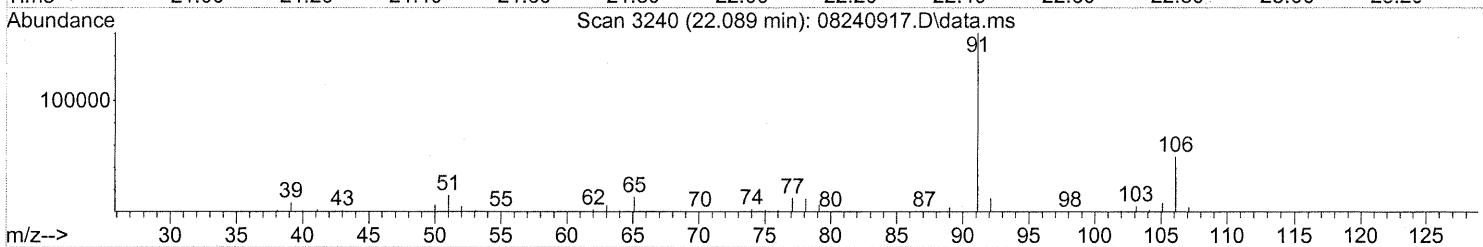
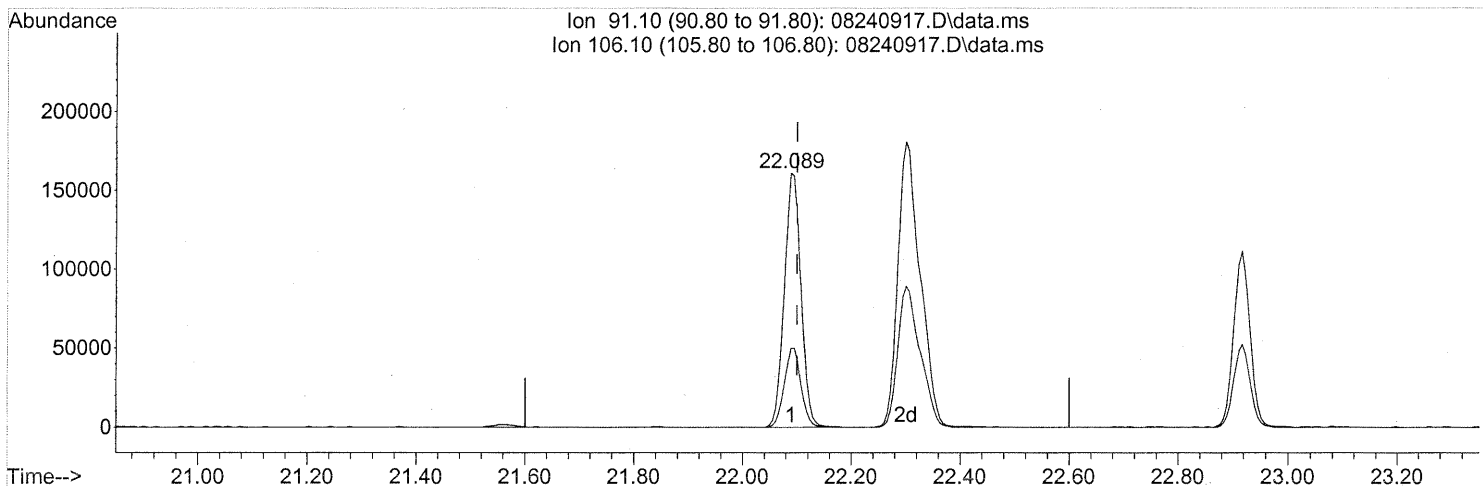
(63) n-Octane (T)
 20.552min (-0.017) 1.17ng
 response 24989

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	103.07
71.00	75.10	68.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

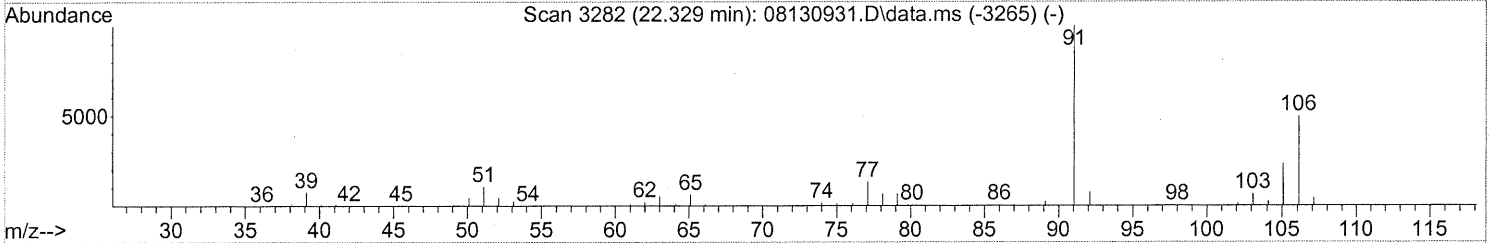
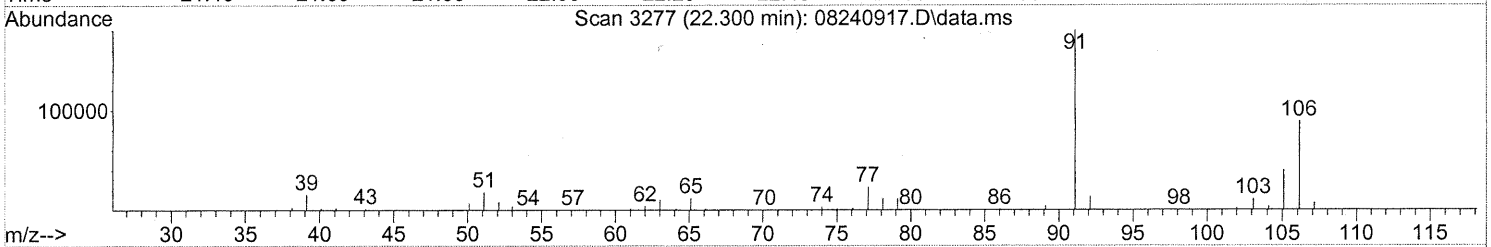
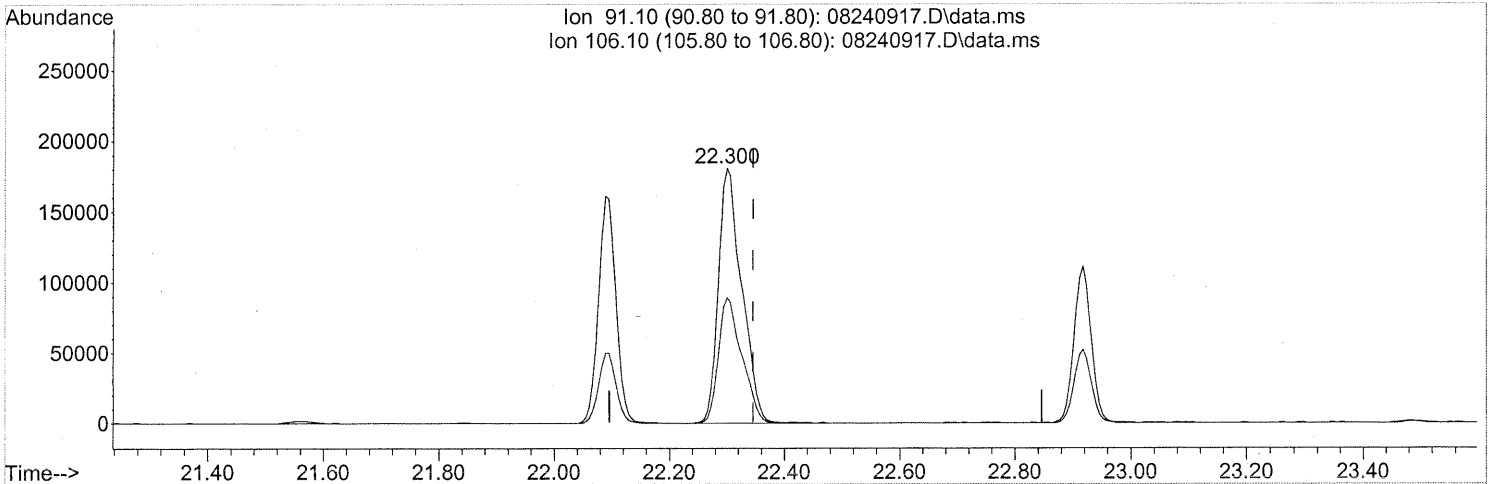
(66) Ethylbenzene (T)
 22.089min (-0.011) 3.29ng
 response 340401

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

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

22.300min (-0.046) 6.23ng

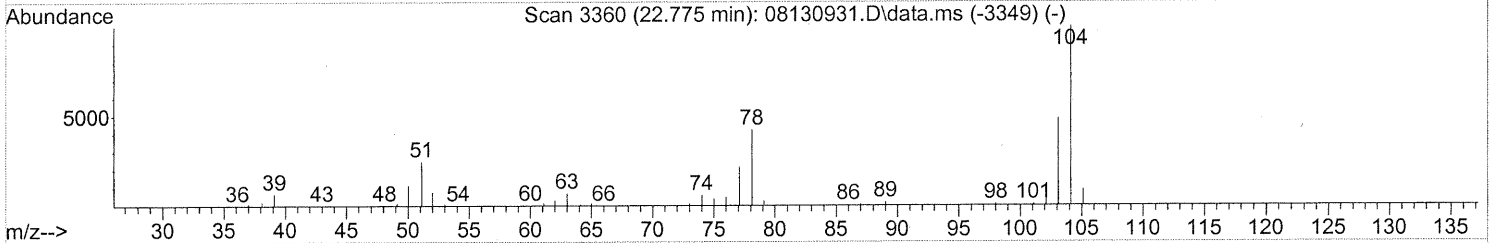
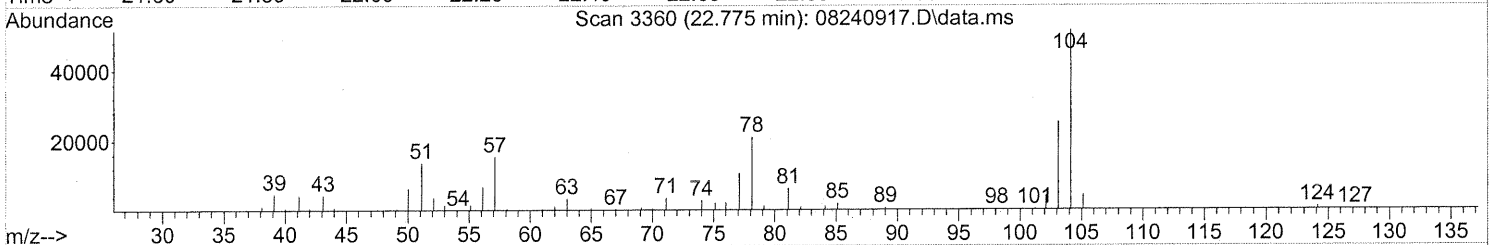
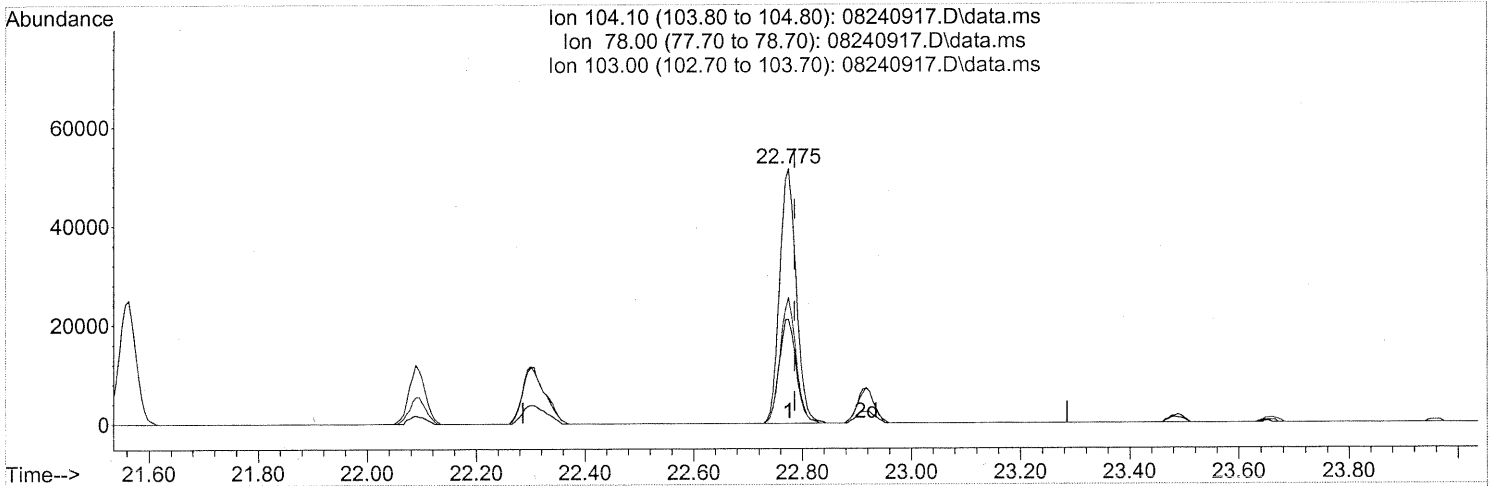
response 511576

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

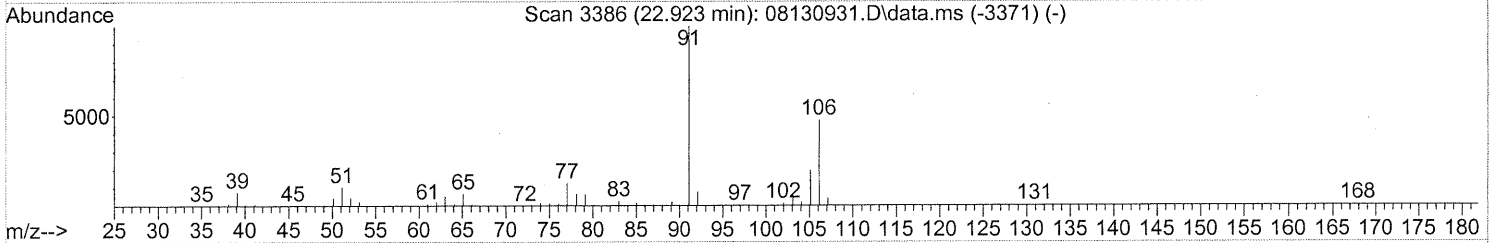
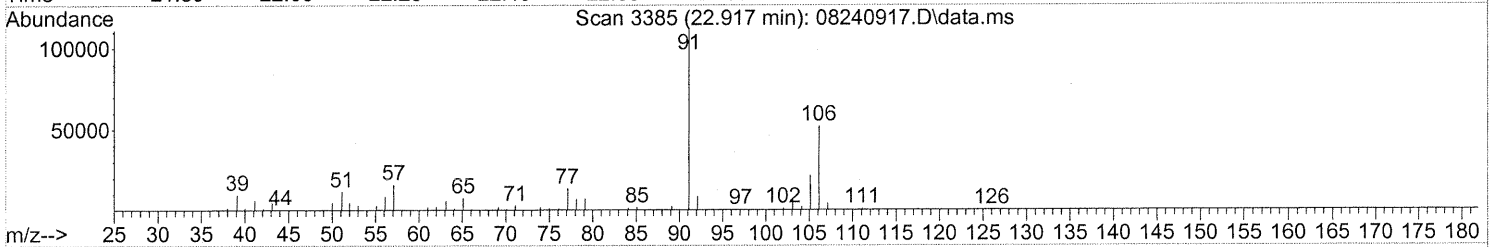
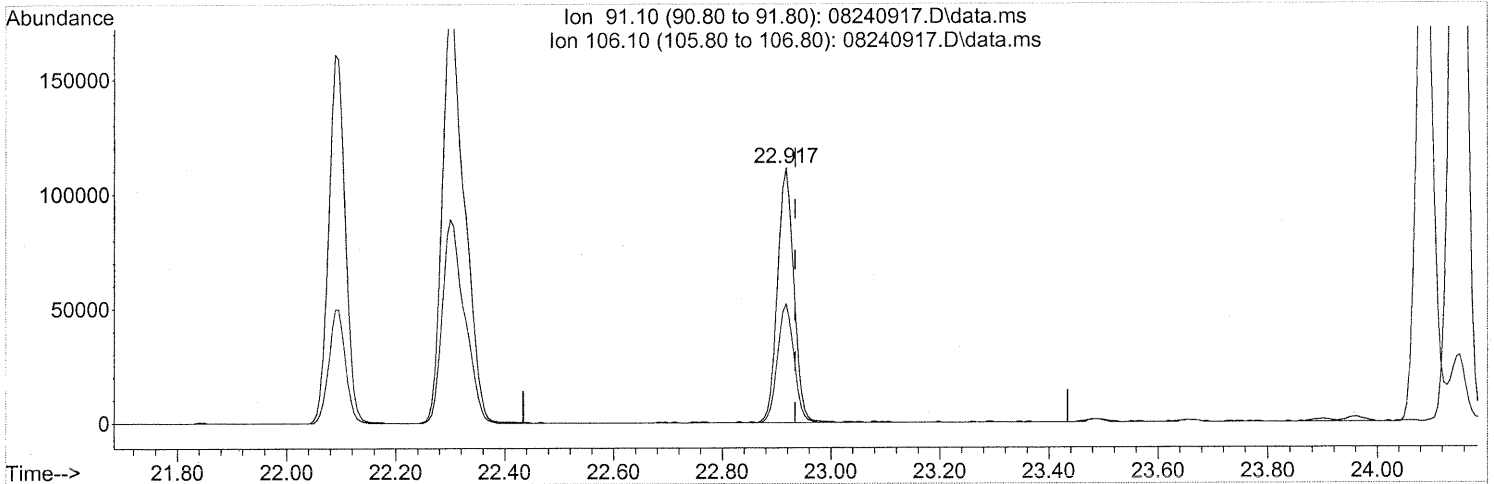
(69) Styrene (T)
 22.775min (-0.011) 1.78ng
 response 108248

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.89
103.00	48.70	47.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



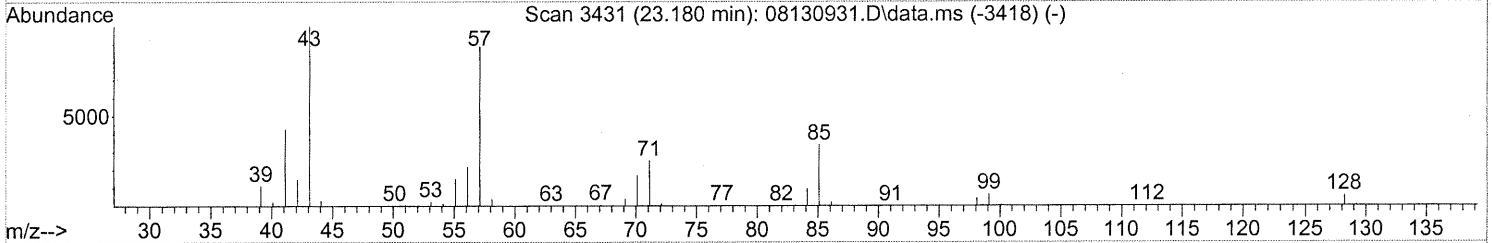
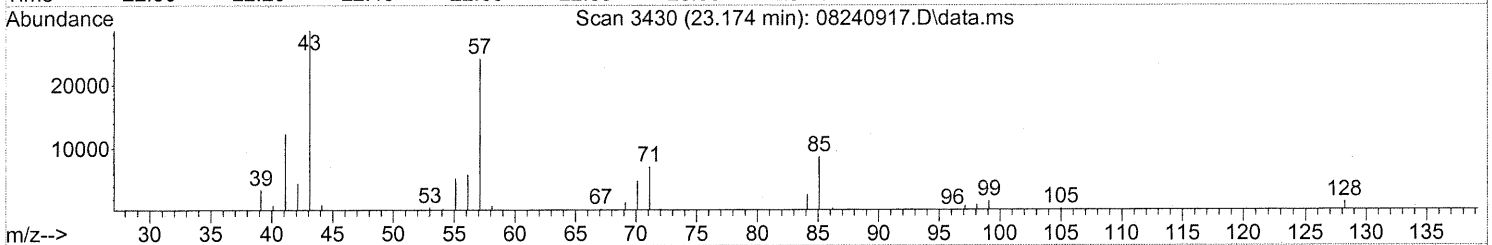
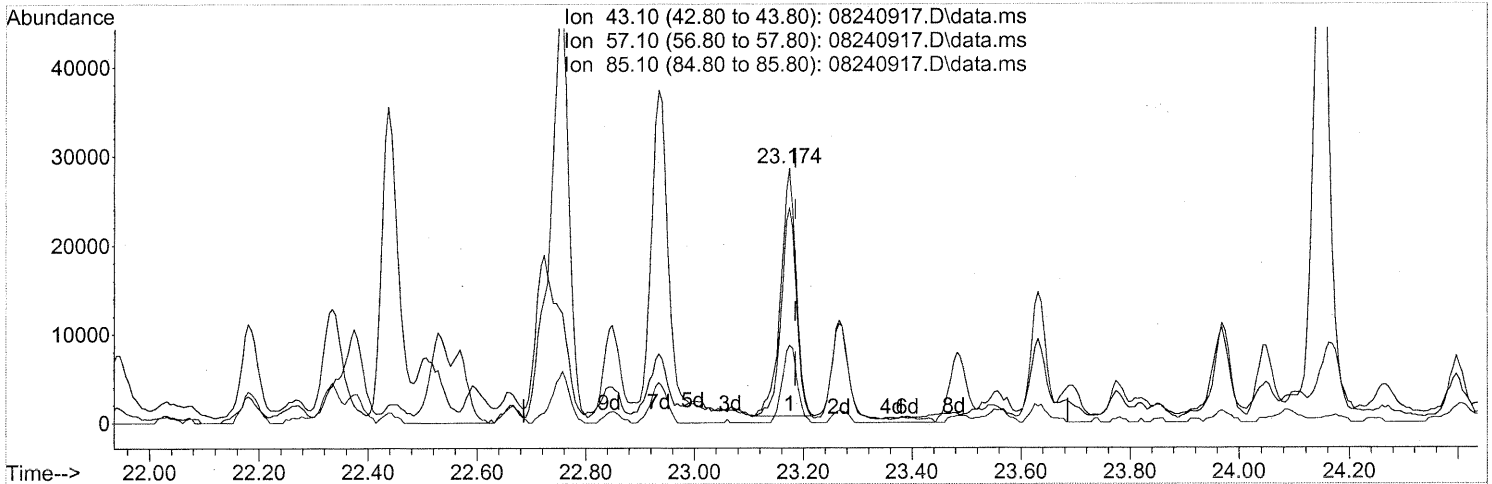
(70) o-Xylene (T)
 22.917min (-0.017) 2.79ng
 response 230502

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

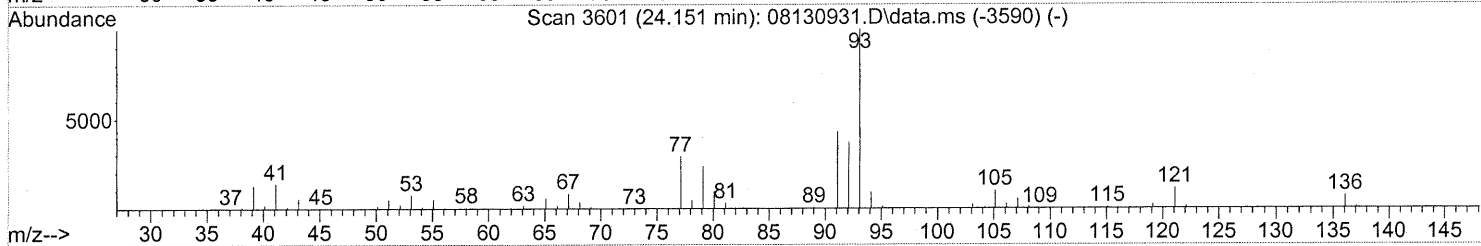
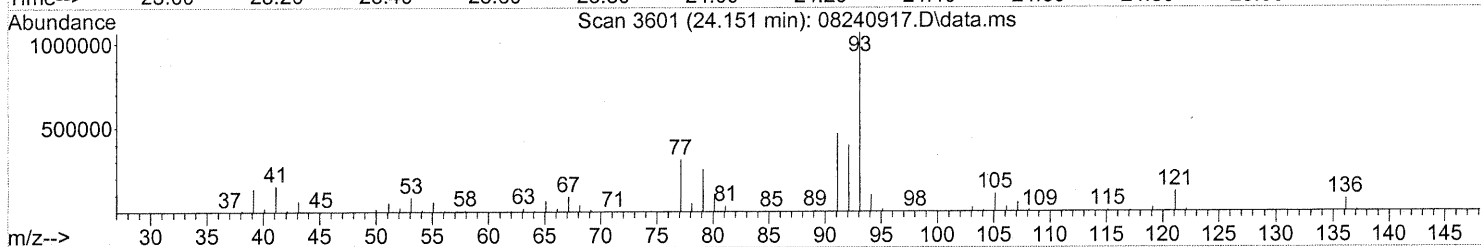
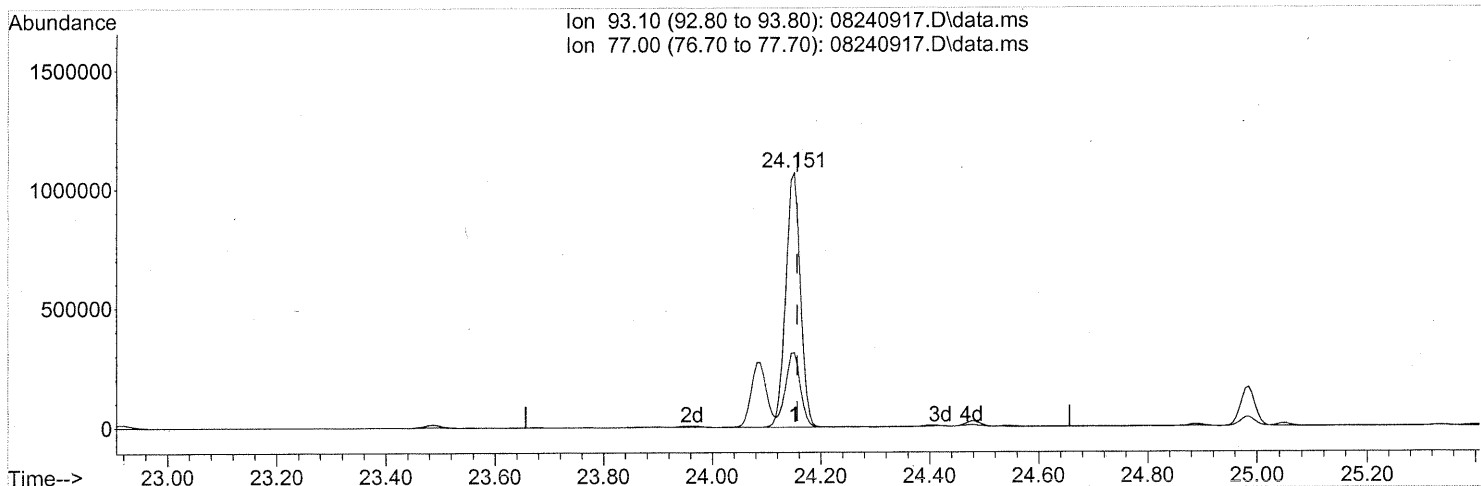
(71) n-Nonane (T)
 23.174min (-0.011) 1.12ng
 response 55786

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	85.62
85.10	38.80	29.81
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

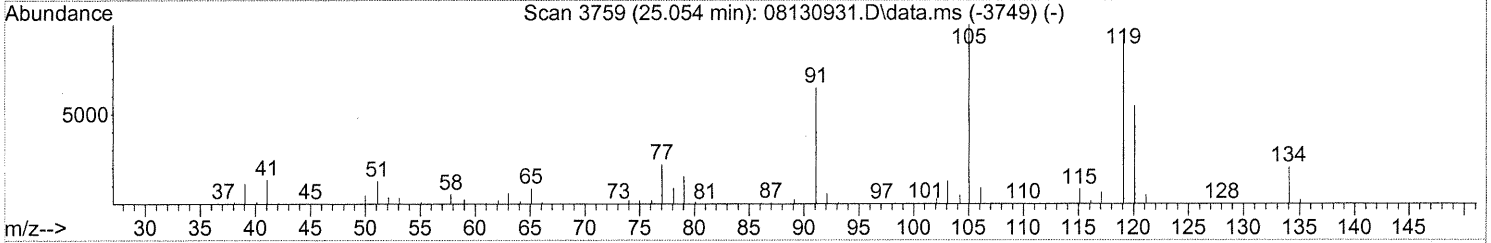
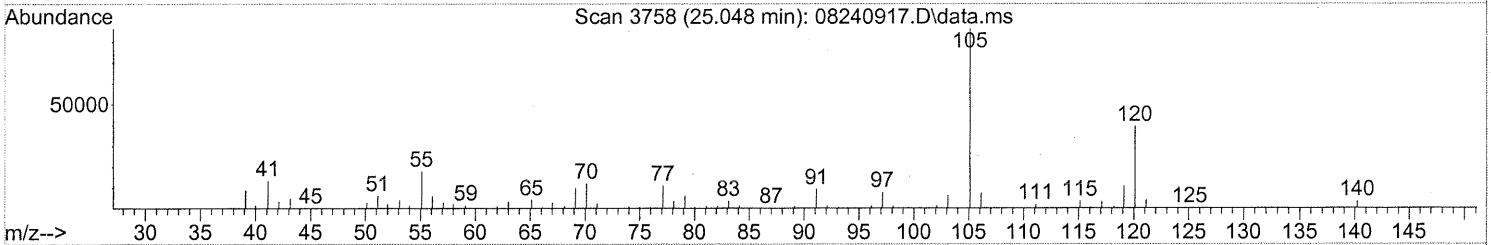
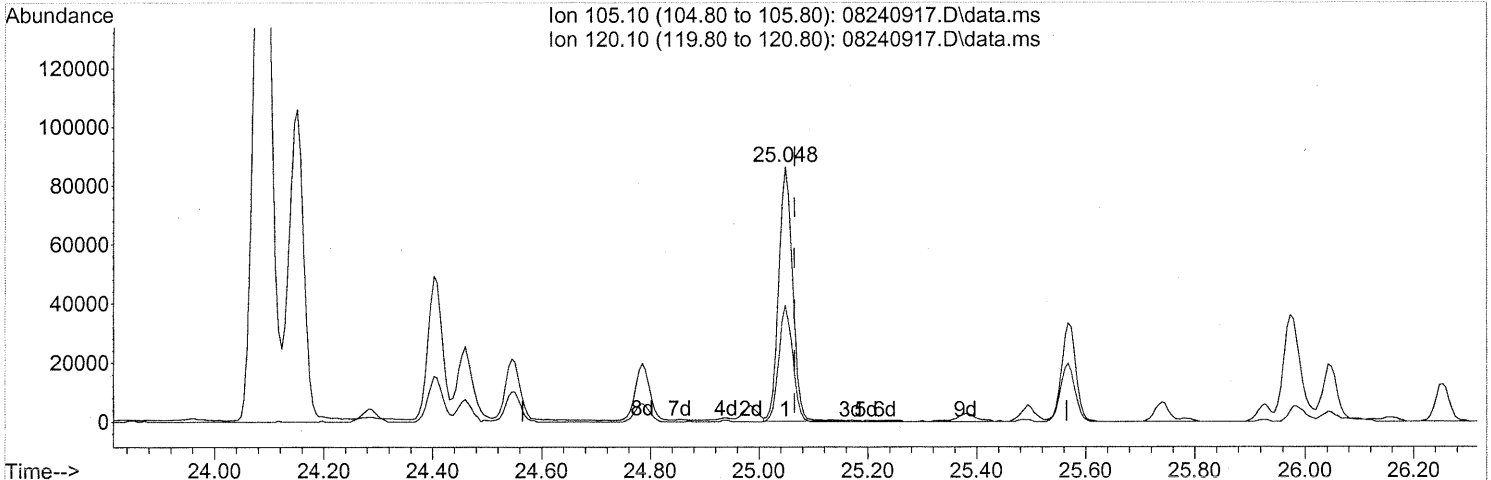
(75) alpha-Pinene (T)
 24.151min (-0.006) 37.73ng
 response 1993010

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

25.048min (-0.017) 1.72ng

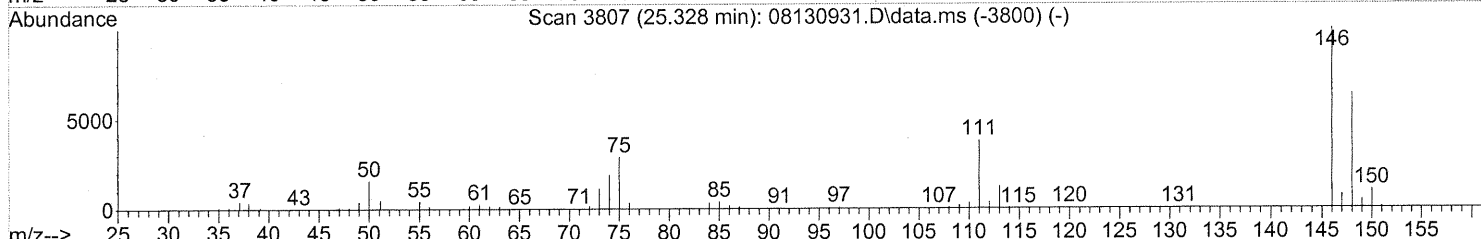
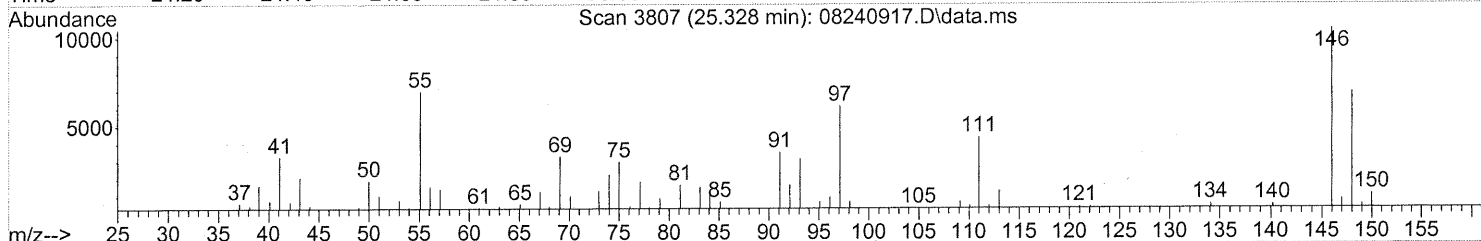
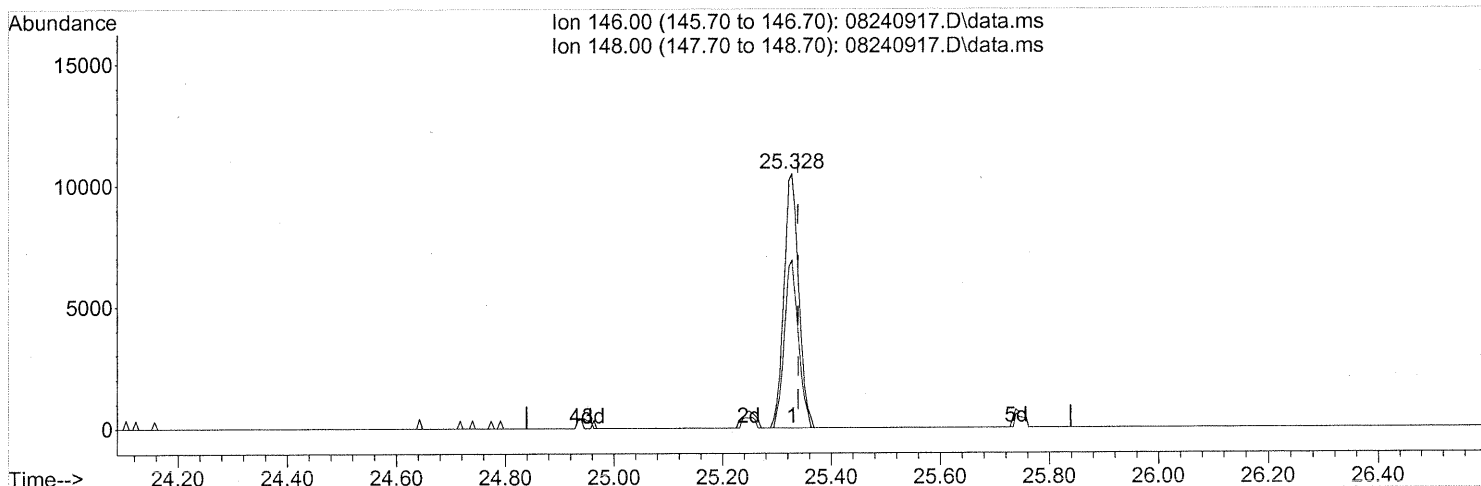
response 152120

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	45.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 27 13:18:55 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.41ng

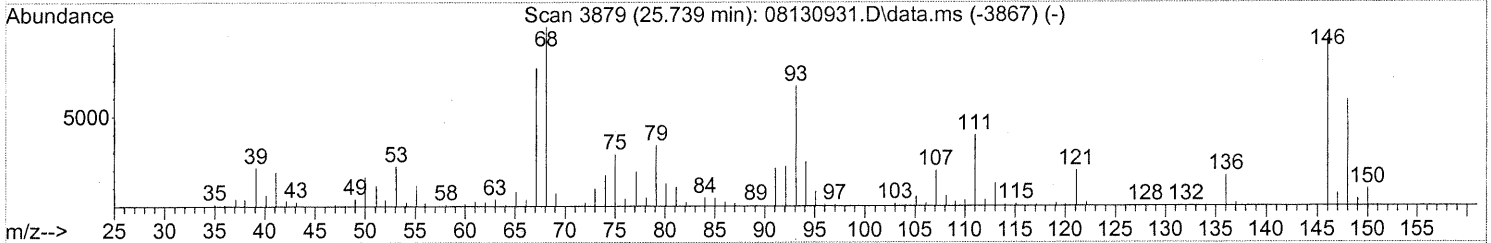
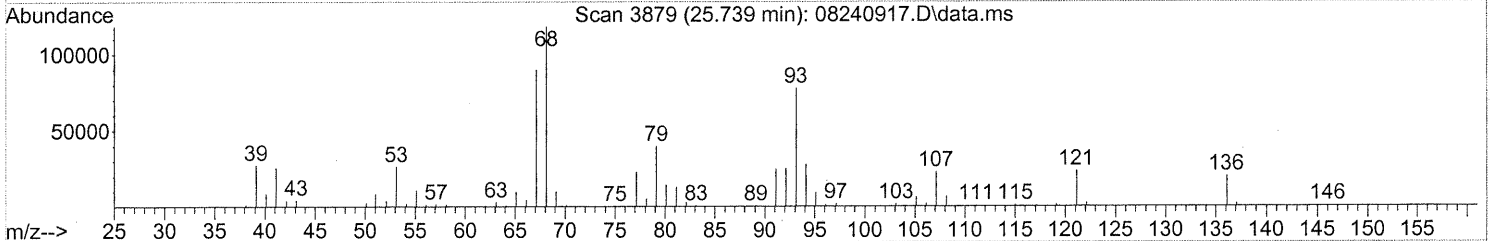
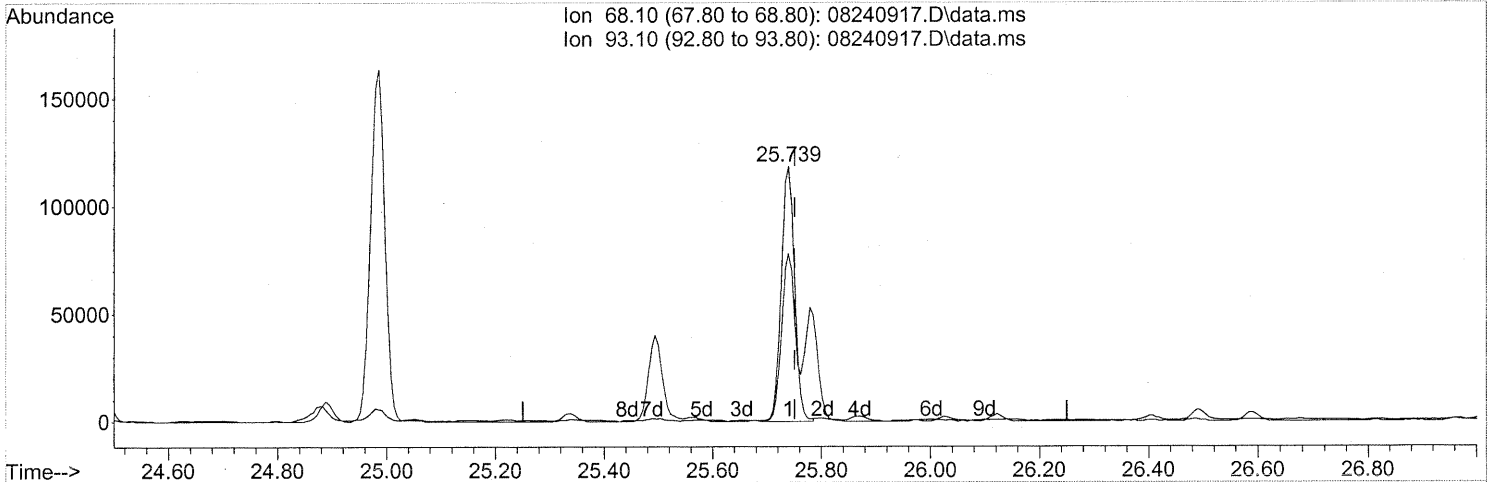
response 19796

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	62.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

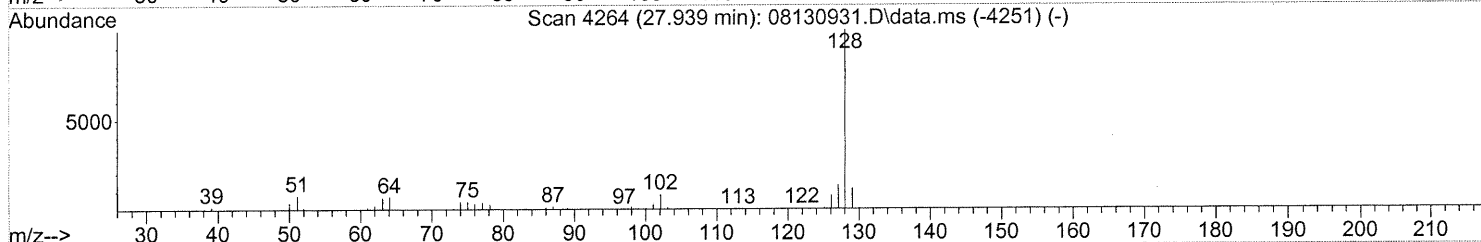
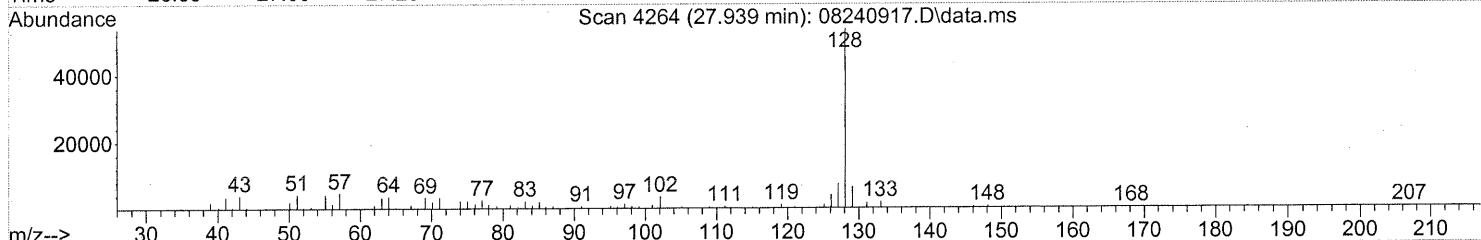
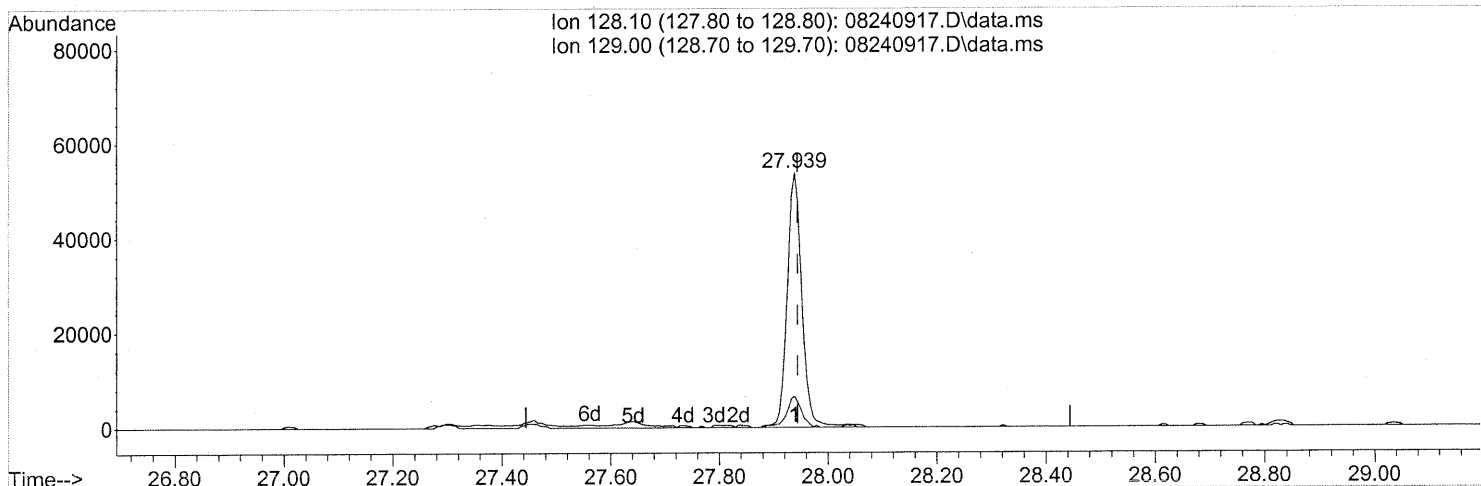
(91) d-Limonene (T)
 25.739min (-0.011) 5.50ng
 response 199057

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	68.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240917.D
 Acq On : 24 Aug 2009 19:47
 Operator : EM
 Sample : P0902832-001 (1000ml)
 Misc : Eng. H&E 101654
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 16:43:13 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240917.D\data.ms

(95) Naphthalene (T)
 27.939min (-0.006) 0.85ng
 response 101148

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	12.04
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, Inc.
Client Sample ID: 101655
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01661

CAS Project ID: P0902832
CAS Sample ID: P0902832-002

Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/24/09
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
115-07-1	Propene	ND	0.74	ND	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.74	0.49	0.15	
74-87-3	Chloromethane	0.72	0.15	0.35	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	ND	0.15	ND	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	Ethanol	420	7.4	220	3.9	
75-05-8	Acetonitrile	210	0.74	120	0.44	E
107-02-8	Acrolein	7.3	0.74	3.2	0.32	
67-64-1	Acetone	94	7.4	39	3.1	
75-69-4	Trichlorofluoromethane	1.2	0.15	0.21	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	6.9	0.74	2.8	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	0.53	0.15	0.069	0.019	
75-15-0	Carbon Disulfide	2.0	0.74	0.65	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	10	7.4	2.9	2.1	
78-93-3	2-Butanone (MEK)	6.5	0.74	2.2	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: _____

P

8/31/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101655
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01661

CAS Project ID: P0902832
CAS Sample ID: P0902832-002

Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/24/09
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		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	4.7	1.5	1.3	0.41	
110-54-3	n-Hexane	3.3	0.74	0.94	0.21	
67-66-3	Chloroform	1.3	0.15	0.27	0.030	
109-99-9	Tetrahydrofuran (THF)	0.99	0.74	0.34	0.25	
107-06-2	1,2-Dichloroethane	0.29	0.15	0.072	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	1.5	0.15	0.46	0.046	
56-23-5	Carbon Tetrachloride	0.54	0.15	0.086	0.024	
110-82-7	Cyclohexane	0.89	0.74	0.26	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	1.5	ND	0.36	
142-82-5	n-Heptane	2.1	0.74	0.50	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	ND	0.16	
108-10-1	4-Methyl-2-pentanone	17	0.74	4.1	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	15	0.74	3.9	0.20	
591-78-6	2-Hexanone	1.5	0.74	0.36	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	23	0.74	4.9	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: _____

9/10/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101655
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P0902832-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01661

Date Collected: 8/13/09
 Date Received: 8/18/09
 Date Analyzed: 8/24/09
 Volume(s) Analyzed: 1.00 Liter(s)

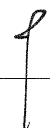
Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

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	1.3	0.74	0.28	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	5.4	0.74	1.2	0.17	
179601-23-1	m,p-Xylenes	10	0.74	2.3	0.17	
75-25-2	Bromoform	ND	0.74	ND	0.072	
100-42-5	Styrene	2.6	0.74	0.62	0.17	
95-47-6	o-Xylene	4.5	0.74	1.0	0.17	
111-84-2	n-Nonane	1.7	0.74	0.32	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	55	0.74	9.8	0.13	
103-65-1	n-Propylbenzene	ND	0.74	ND	0.15	
622-96-8	4-Ethyltoluene	0.75	0.74	0.15	0.15	
108-67-8	1,3,5-Trimethylbenzene	0.74	0.74	0.15	0.15	
95-63-6	1,2,4-Trimethylbenzene	2.7	0.74	0.55	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	0.60	0.15	0.10	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	4.7	0.74	0.84	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	1.0	0.74	0.19	0.14	
87-68-3	Hexachlorobutadiene	ND	0.74	ND	0.069	

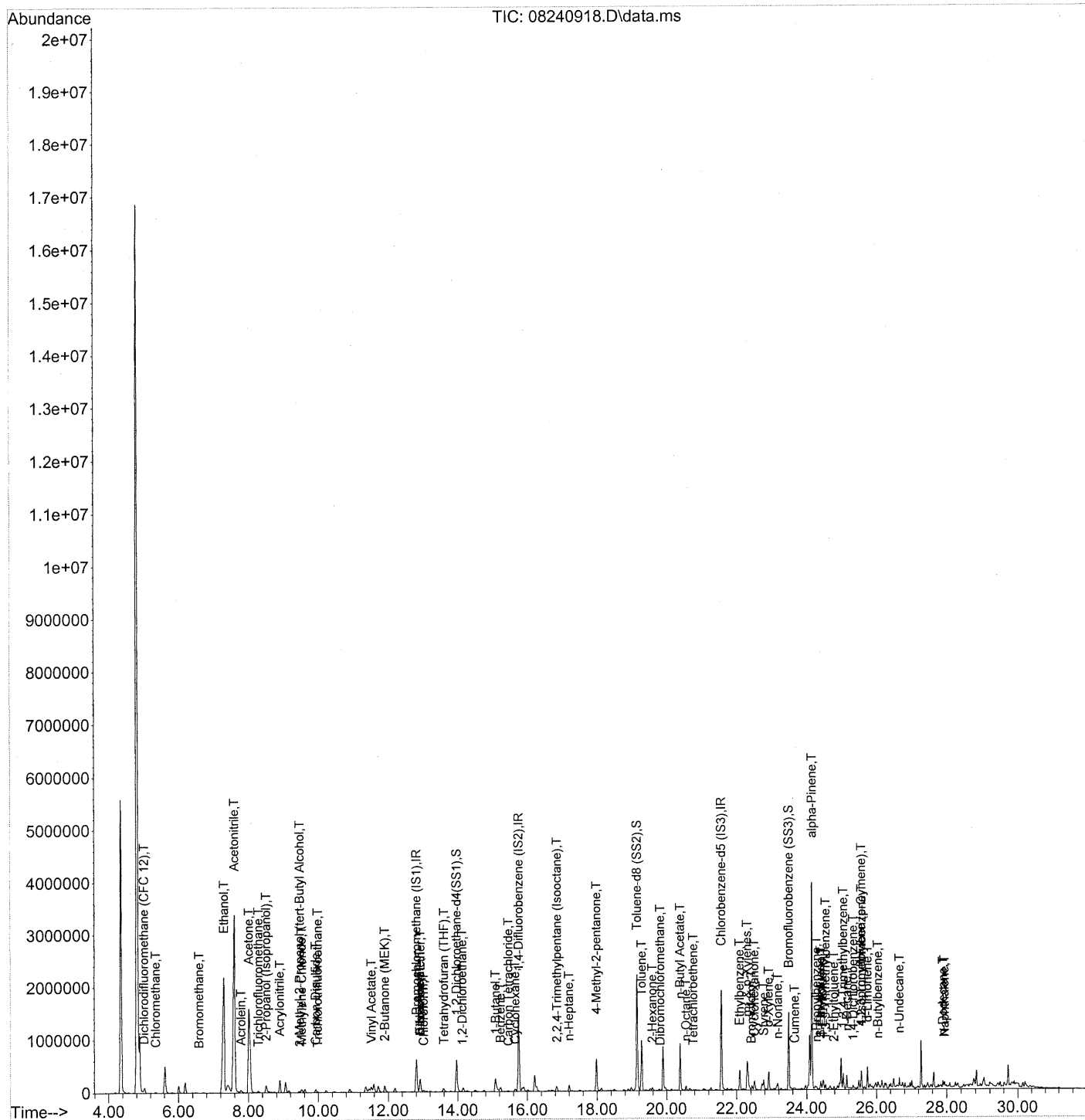
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By:  Date: 8/31/09 **57**

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:29:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655 ✓
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:29:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	335570	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1710156	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	799084	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	598884	25.240	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	100.96%	
57) Toluene-d8 (SS2)	19.15	98	1947231	25.633	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	102.52%	
73) Bromofluorobenzene (SS3)	23.49	174	529172	24.597	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	98.40%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	5.01	85	68809	1.638	ng	99
4) Chloromethane	5.36	50	19111	0.488	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1108	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	1083	N.D.		
8) Bromomethane	6.59	94	1019	0.050	ng	100
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.30	45	5194355m	281.311	ng	
11) Acetonitrile	7.60	41	6355522	141.038	ng	E 99
12) Acrolein	7.79	56	59115	4.909	ng	98
13) Acetone	8.01	58	1190187	63.342	ng	91
14) Trichlorofluoromethane	8.29	101	28110	0.782	ng	96
15) 2-Propanol (Isopropanol)	8.51	45	241514m	4.693	ng	
16) Acrylonitrile	8.89	53	4571	0.167	ng	# 45
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.47	59	48056	0.920	ng	82
19) Methylene Chloride	9.53	84	6266	0.267	ng	87
20) 3-Chloro-1-propene (Al...	9.73	41	118	N.D.		
21) Trichlorotrifluoroethane	9.98	151	5778	0.359	ng	91
22) Carbon Disulfide	9.93	76	112634	1.361	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	11.35	73	710	N.D.		
26) Vinyl Acetate	11.53	86	28244m	6.940	ng	
27) 2-Butanone (MEK)	11.90	72	57253	4.371	ng	# 87
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.93	87	1157	0.062	ng	# 1
30) Ethyl Acetate	12.92	61	27210	3.203	ng	97
31) n-Hexane	12.92	57	92495	2.234	ng	95

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em 8/28/09

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:29:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	30553	0.882	ng	100
34) Tetrahydrofuran (THF)	13.61	72	9143	0.671	ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	5240	0.198	ng	91
38) 1,1,1-Trichloroethane	14.54	97	961	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.09	56	254106	11.466	ng	80
41) Benzene	15.23	78	91755	0.998	ng	97
42) Carbon Tetrachloride	15.46	117	9430	0.367	ng	100
43) Cyclohexane	15.65	84	21518	0.604	ng #	82
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. d		
47) Trichloroethene	16.77	130	366	N.D.		
48) 1,4-Dioxane	16.74	88	507	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	93343	0.882	ng	70
50) Methyl Methacrylate	17.03	100	360	N.D.		
51) n-Heptane	17.20	71	34136	1.394	ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.98	58	226829	11.413	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	19.28	91	913101	9.915	ng	100
59) 2-Hexanone	19.59	43	47465	0.992	ng	88
60) Dibromochloromethane	19.82	129	1260	0.064	ng	84
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	815017	15.607	ng	99
63) n-Octane	20.56	57	18269	0.890	ng	88
64) Tetrachloroethene	20.76	166	2200	0.096	ng	90
65) Chlorobenzene	21.63	112	916	N.D.		
66) Ethylbenzene	22.09	91	361347	3.634	ng	98
67) m- & p-Xylenes	22.30	91	542515	6.883	ng	99
68) Bromoform	22.42	173	1708	0.100	ng #	69
69) Styrene	22.77	104	103759	1.781	ng	99
70) o-Xylene	22.92	91	242052	3.053	ng	98
71) n-Nonane	23.17	43	53389	1.118	ng #	79
72) 1,1,2,2-Tetrachloroethane	22.91	83	243	N.D.		
74) Cumene	23.66	105	17059	0.166	ng	100
75) alpha-Pinene	24.15	93	1876134	36.986	ng	99
76) n-Propylbenzene	24.28	91	36119	0.284	ng	86
77) 3-Ethyltoluene	24.40	105	94069	0.977	ng	98
78) 4-Ethyltoluene	24.46	105	49048	0.507	ng	93
79) 1,3,5-Trimethylbenzene	24.55	105	40296	0.503	ng	96

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:29:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

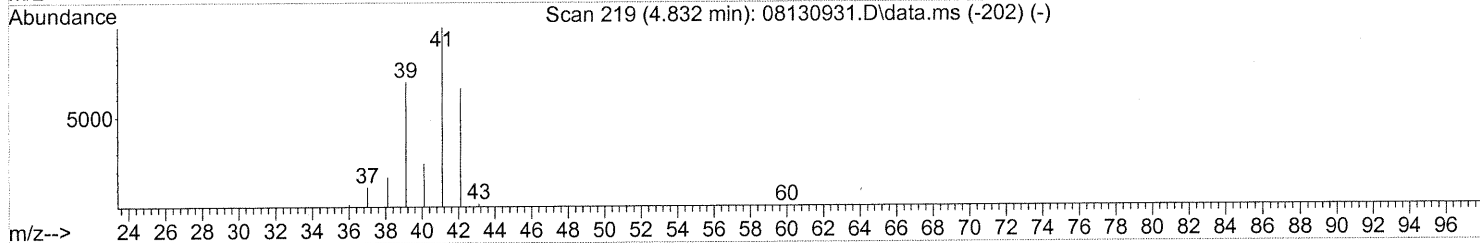
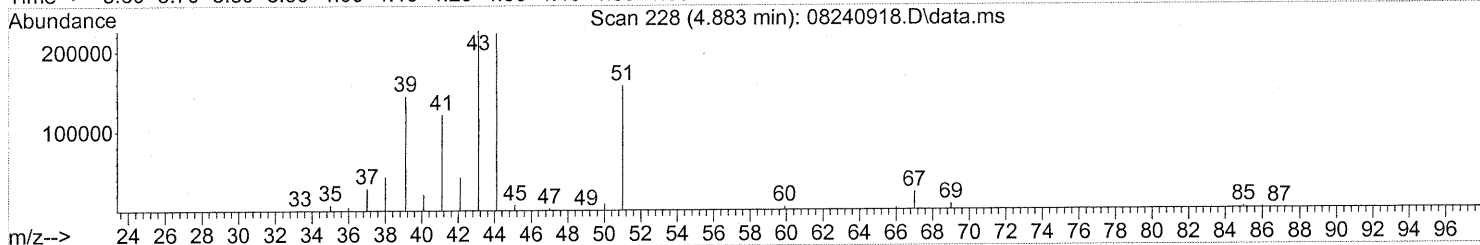
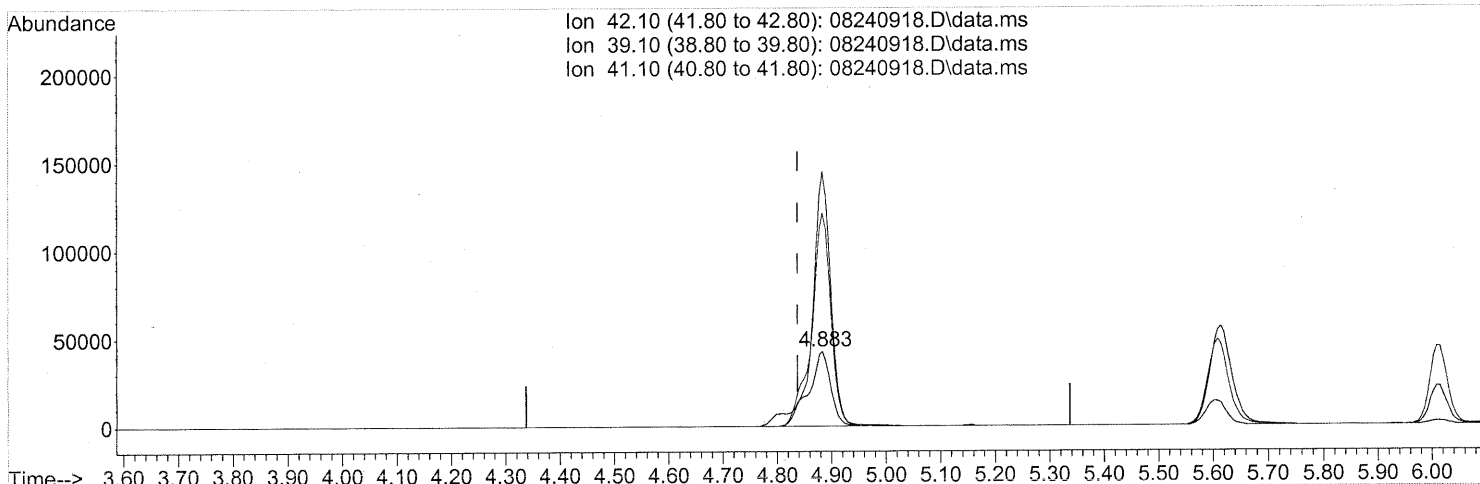
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	1236	N.D.		
81) 2-Ethyltoluene	24.79	105	37249	0.374	ng	97
82) 1,2,4-Trimethylbenzene	25.05	105	155290	1.827	ng	87
83) n-Decane	25.15	57	90299	1.825	ng	99
84) Benzyl Chloride	25.23	91	874	N.D.		
85) 1,3-Dichlorobenzene	25.25	146	103	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	18963	0.406	ng	99
87) sec-Butylbenzene	25.38	105	4214	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	137759	1.284	ng	98
89) 1,2,3-Trimethylbenzene	25.57	105	59839	0.696	ng	85
90) 1,2-Dichlorobenzene	25.74	146	450	N.D.		
91) d-Limonene	25.74	68	109825	3.158	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.65	157	122	N.D.		
93) n-Undecane	26.65	57	68559	1.341	ng	96
94) 1,2,4-Trichlorobenzene	27.80	180	425	N.D.		
95) Naphthalene	27.94	128	78281	0.686	ng	99
96) n-Dodecane	27.89	57	47798	0.835	ng	92
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	92273	3.182	ng	97
99) tert-Butylbenzene	24.93	119	2418	N.D.		
100) n-Butylbenzene	26.04	91	36798	0.413	ng #	22

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(2) Propene (T)

4.883min (+0.046) 4.57ng

response 134650

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	245.99#
41.10	152.70	222.83#
0.00	0.00	0.00

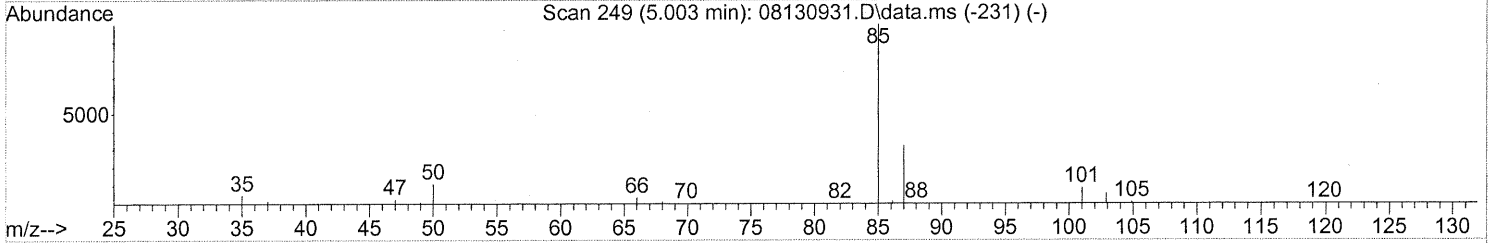
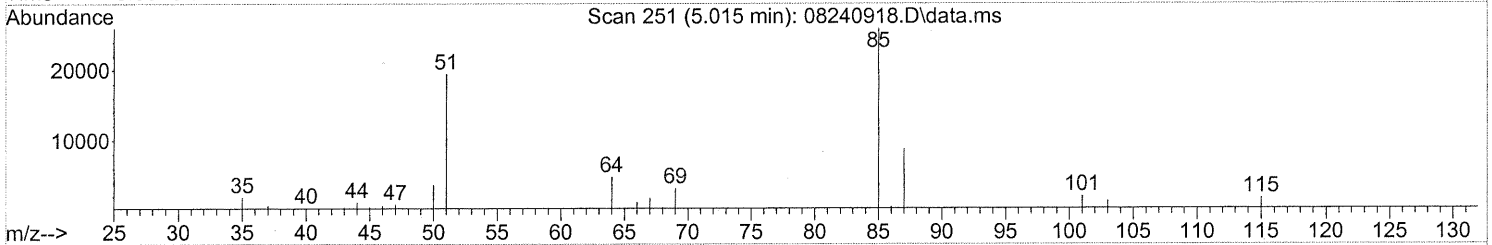
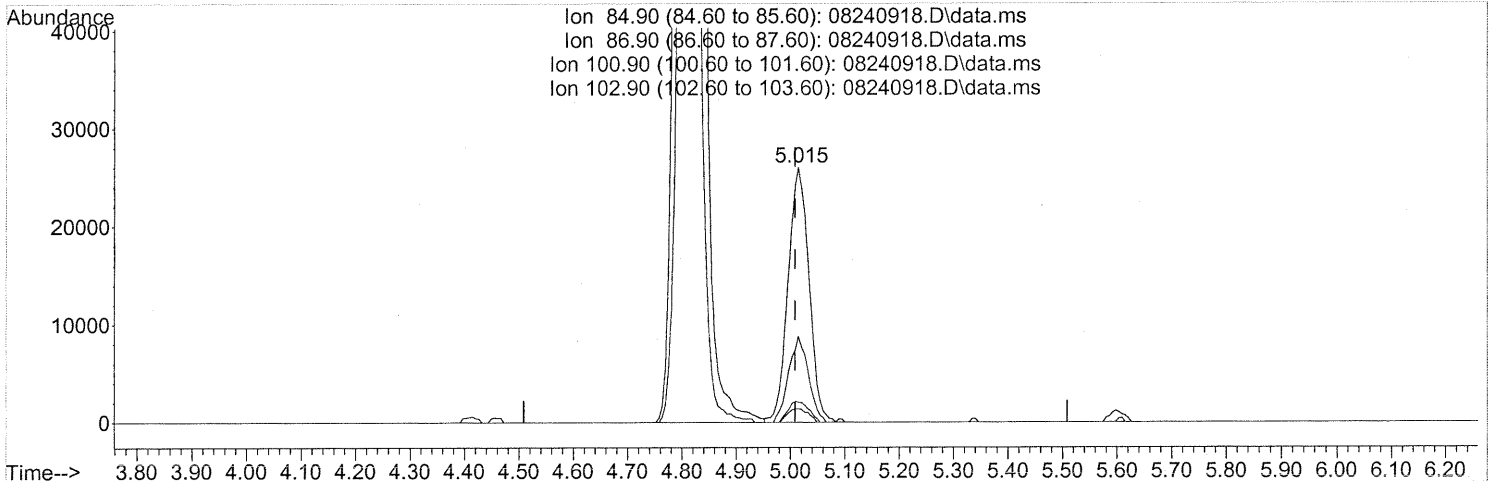
FP em 8/28/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.015min (+0.006) 1.64ng

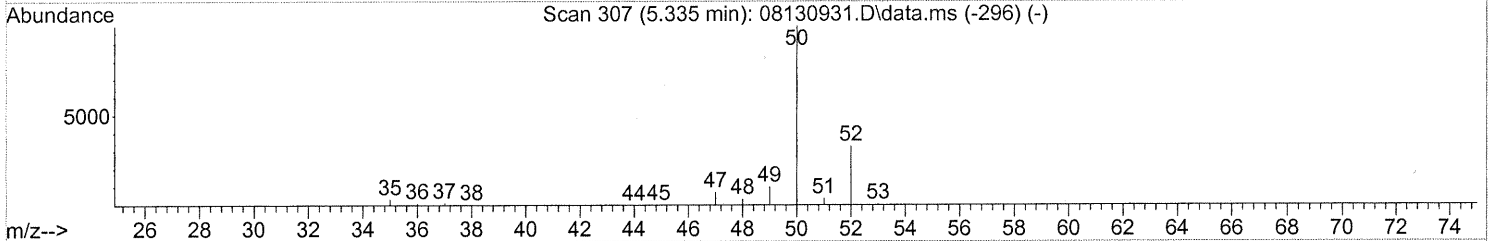
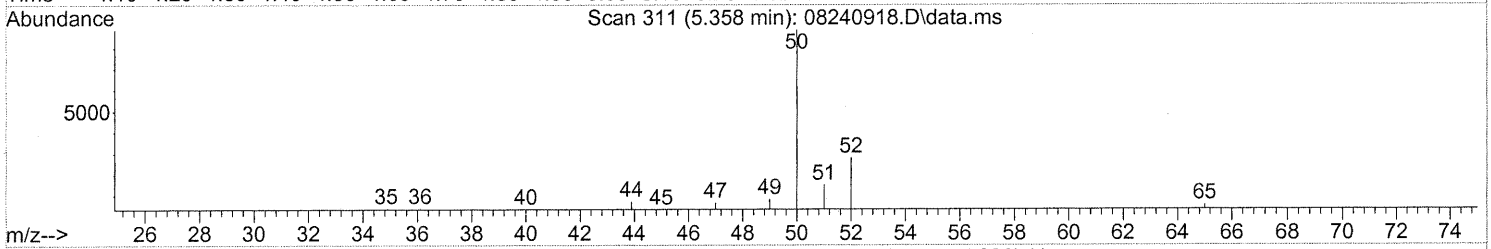
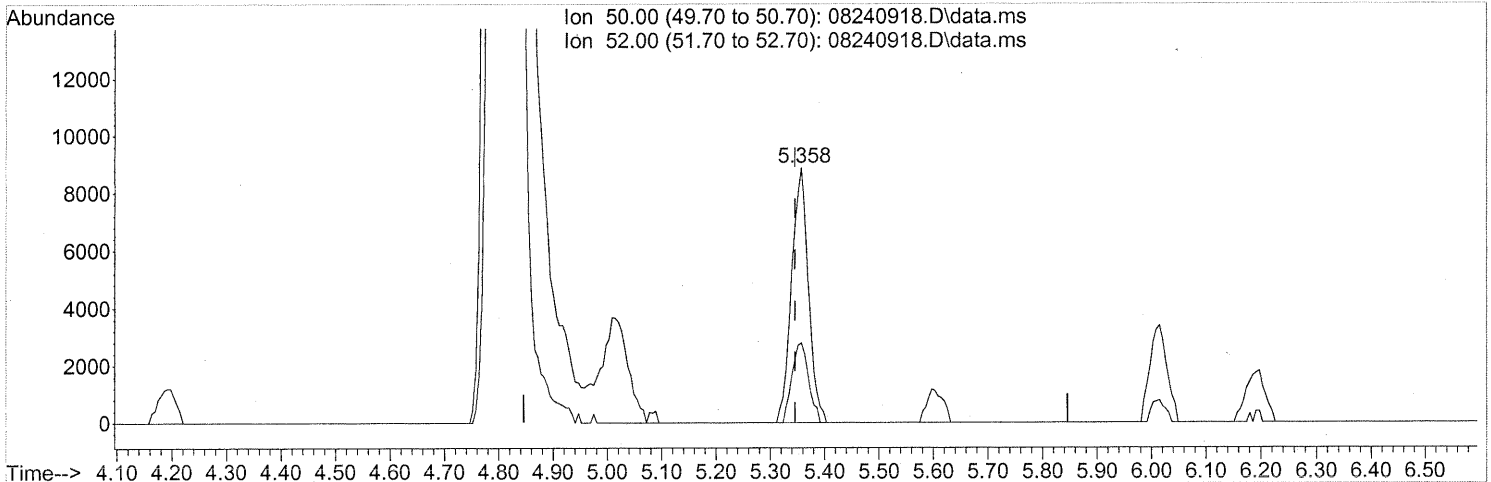
response 68809

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.75
100.90	9.10	7.96
102.90	5.50	5.10

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

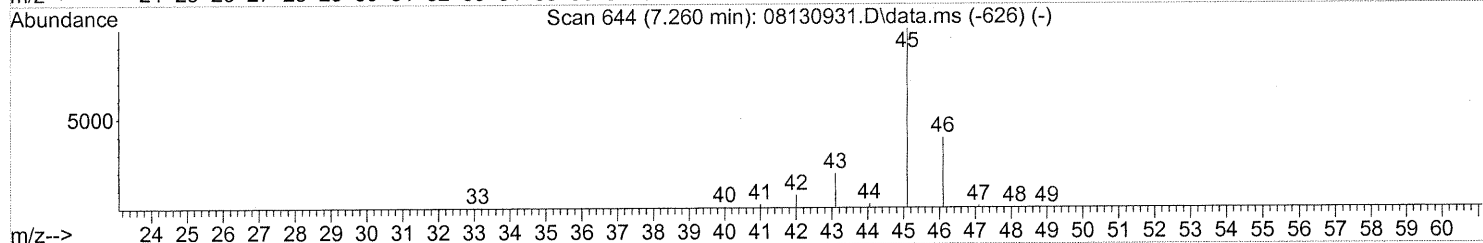
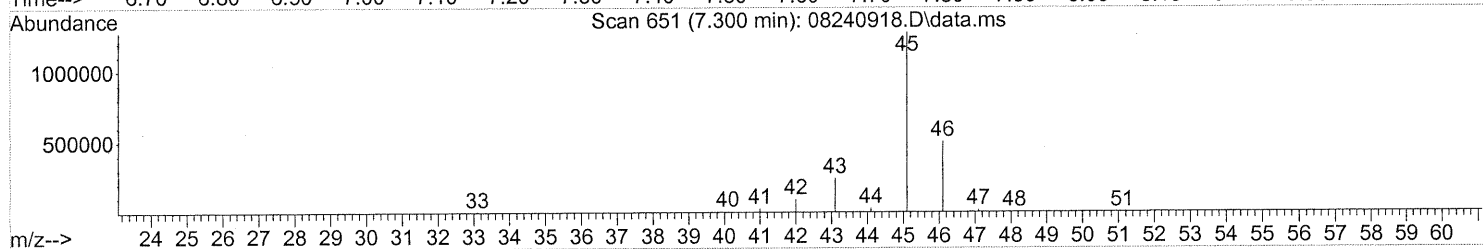
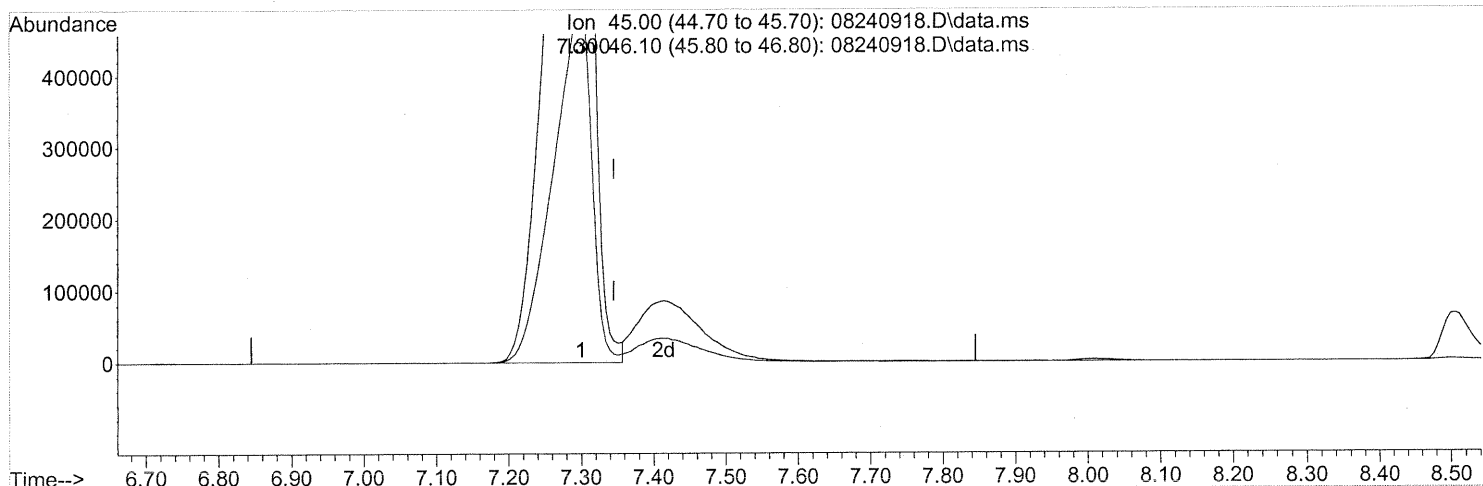
(4) Chloromethane (T)
 5.358min (+0.011) 0.49ng
 response 19111

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(10) Ethanol (T)
 7.300min (-0.046) 251.84ng
 response 4650218

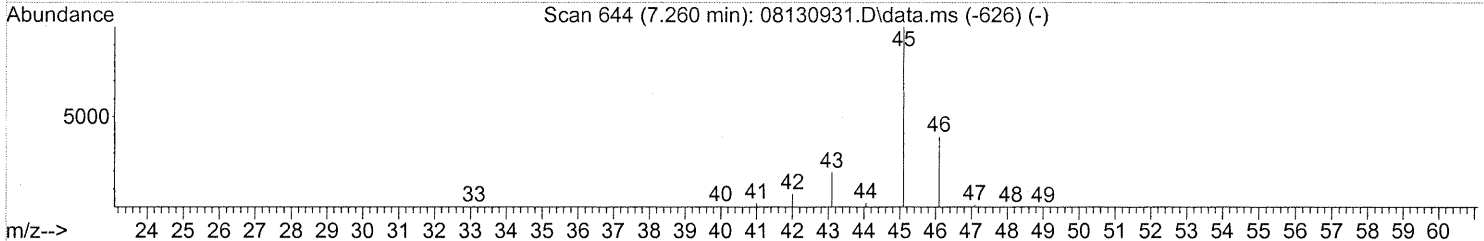
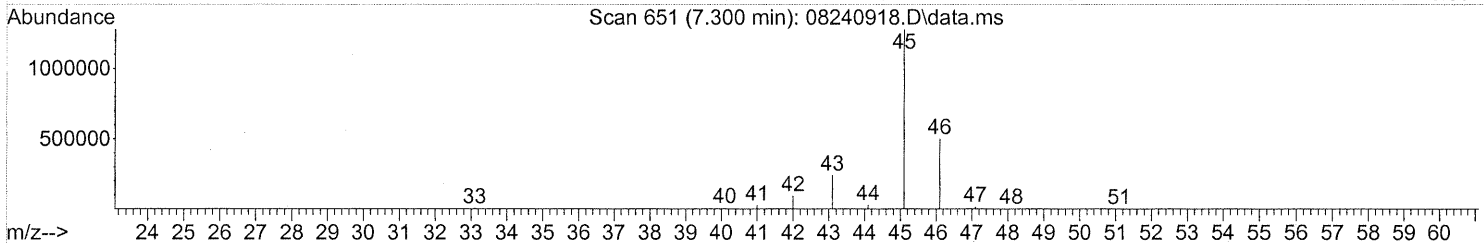
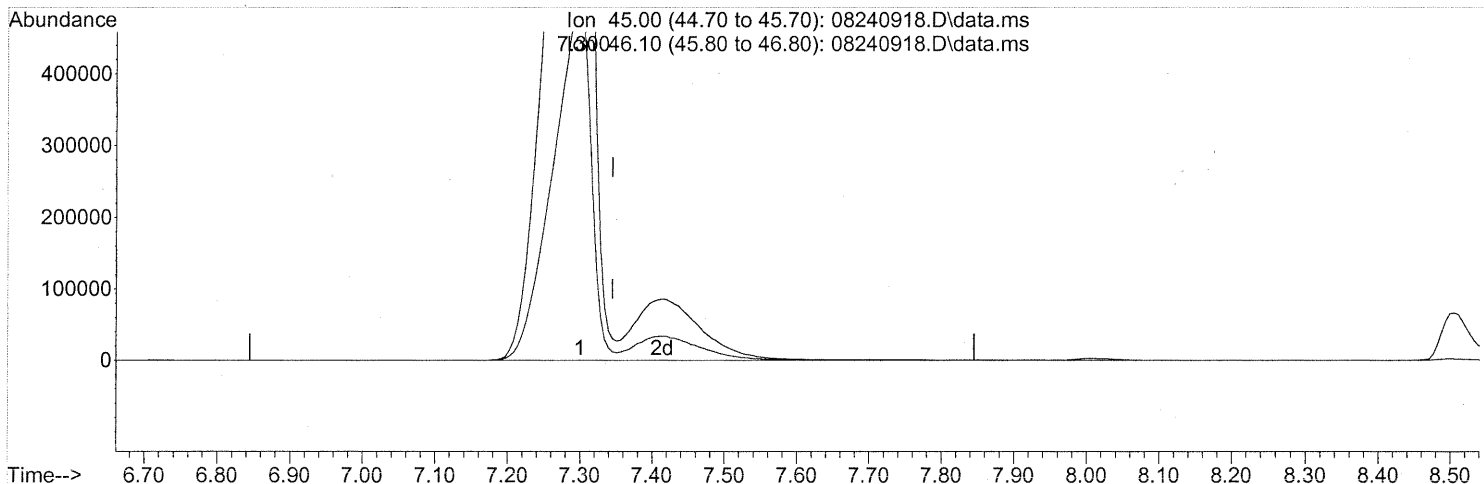
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.14
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(10) Ethanol (T)

7.300min (-0.046) 281.31ng m

response 5194355

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	35.04
0.00	0.00	0.00
0.00	0.00	0.00

PT → TIC

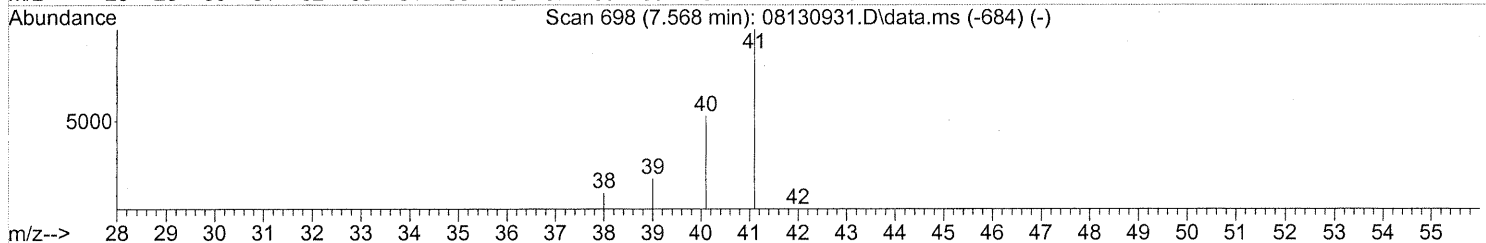
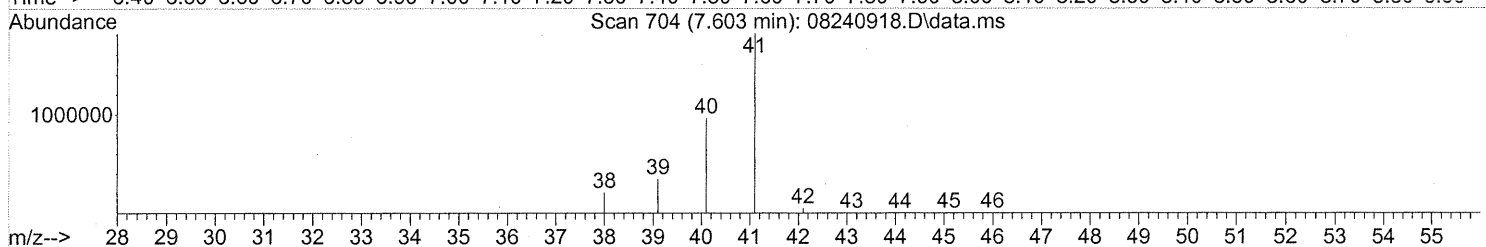
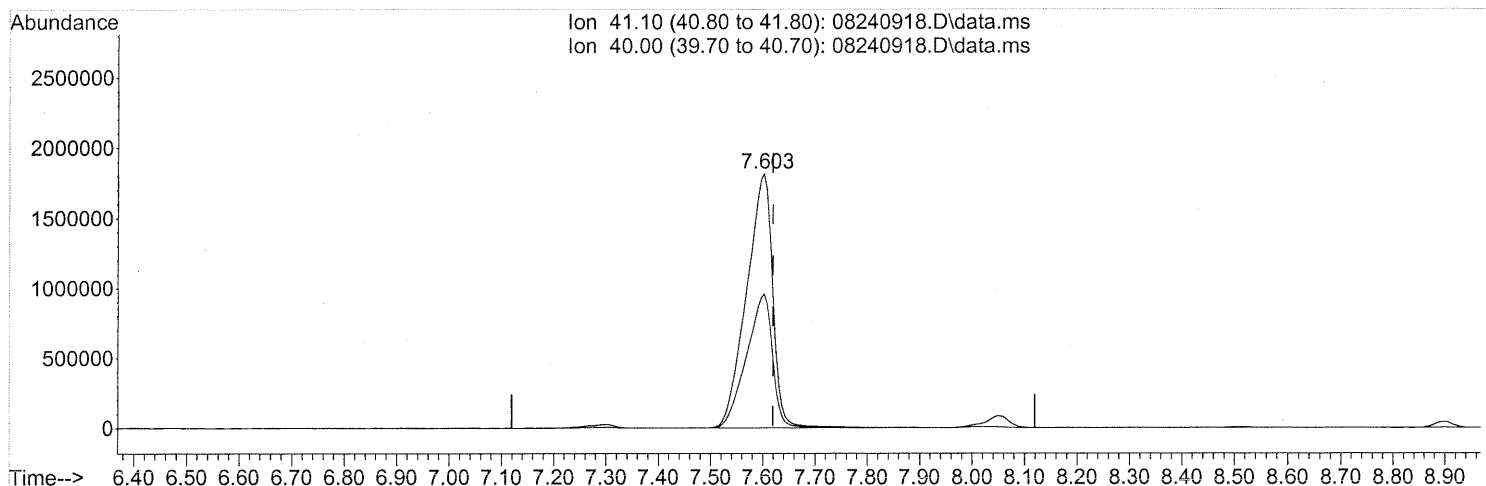
Em 8/28/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(11) Acetonitrile (T)
 7.603min (-0.017) 141.04ng
 response 6355522

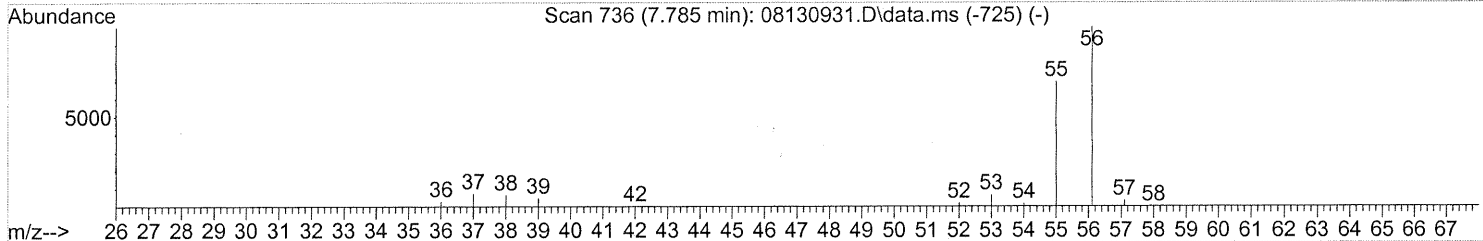
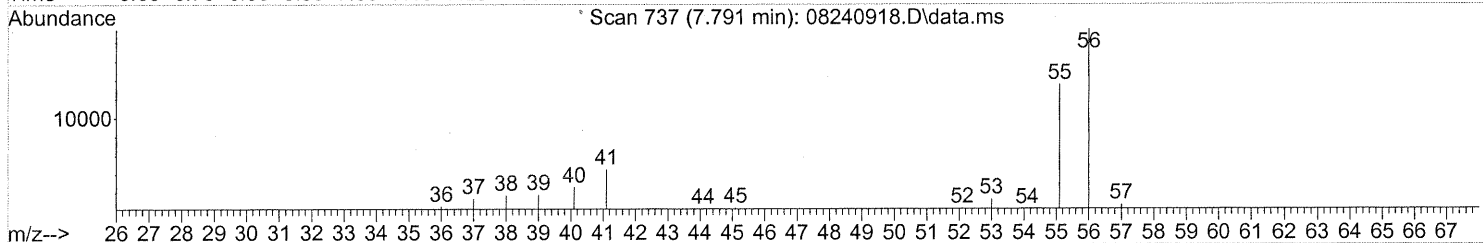
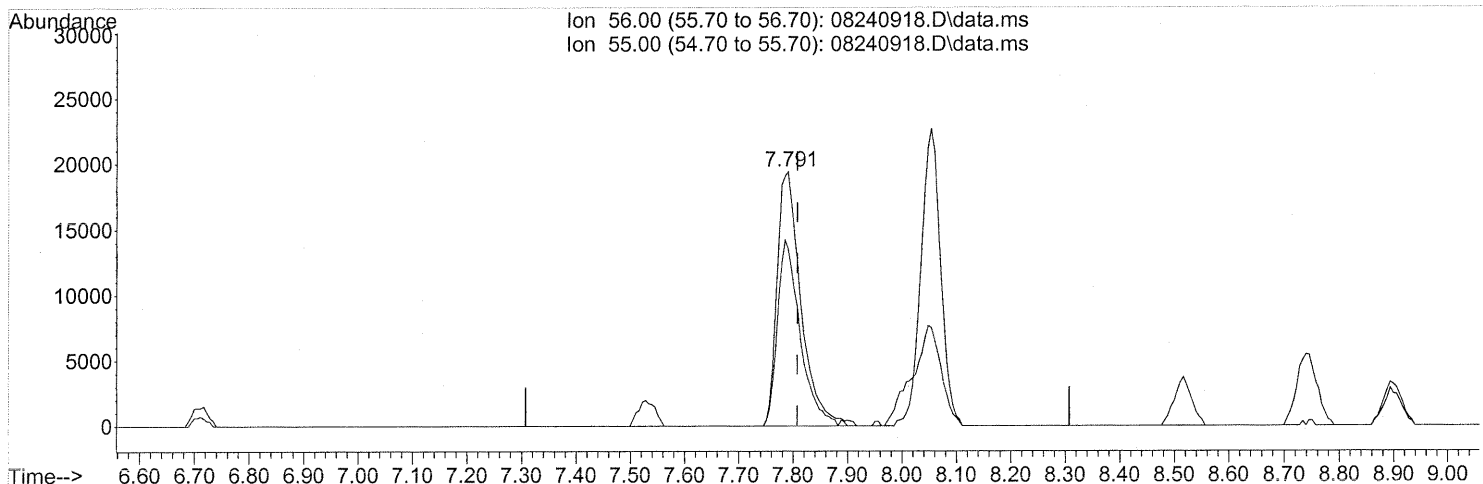
E

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

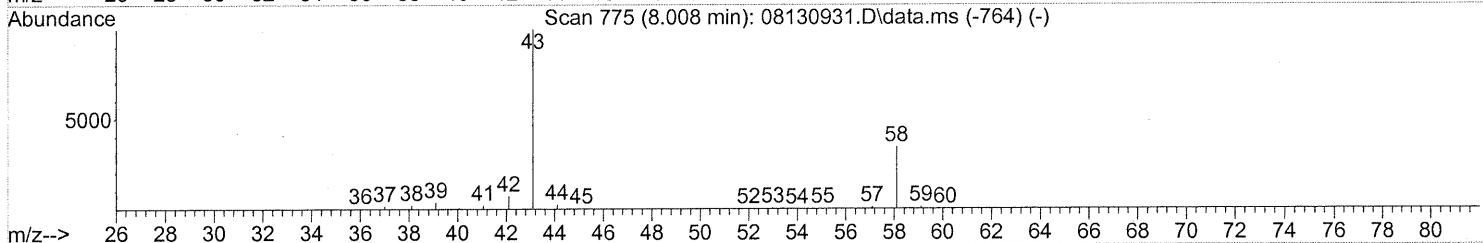
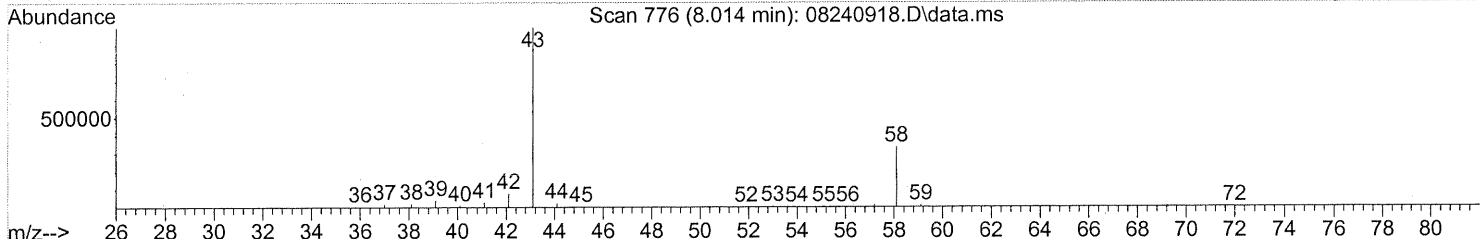
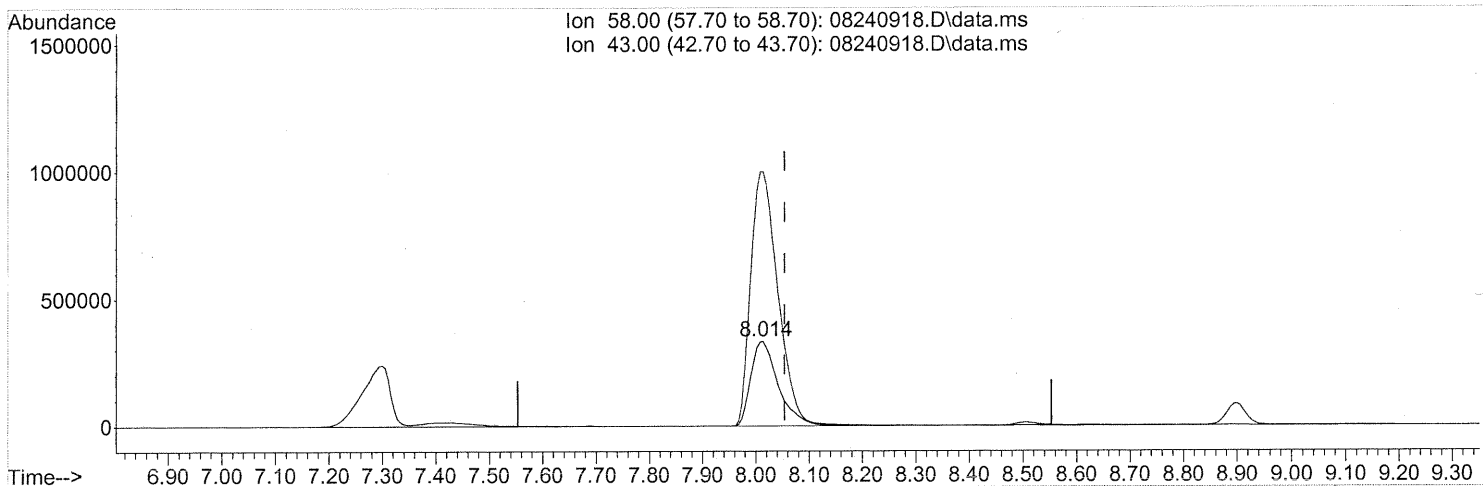
(12) Acrolein (T)
 7.791min (-0.017) 4.91ng
 response 59115

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	69.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(13) Acetone (T)

8.014min (-0.040) 63.34ng

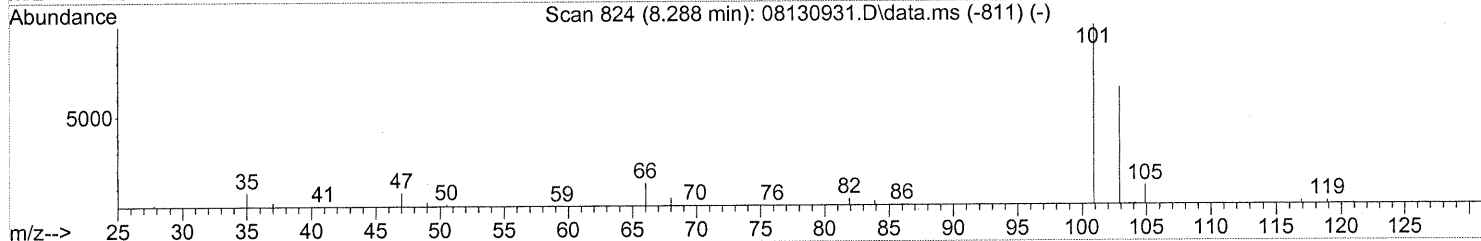
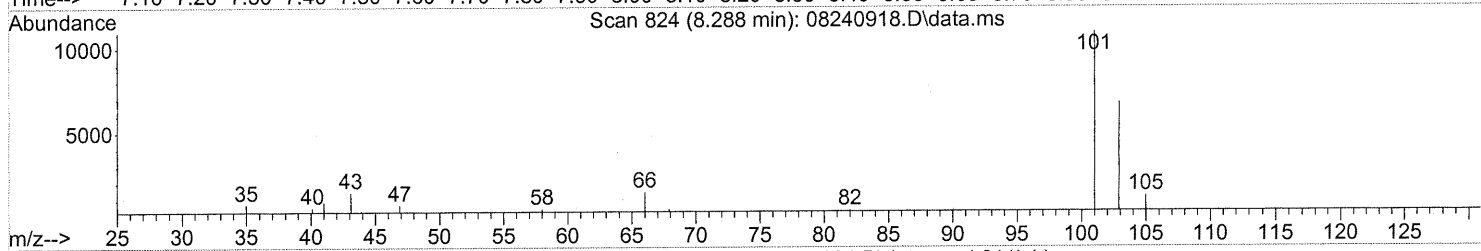
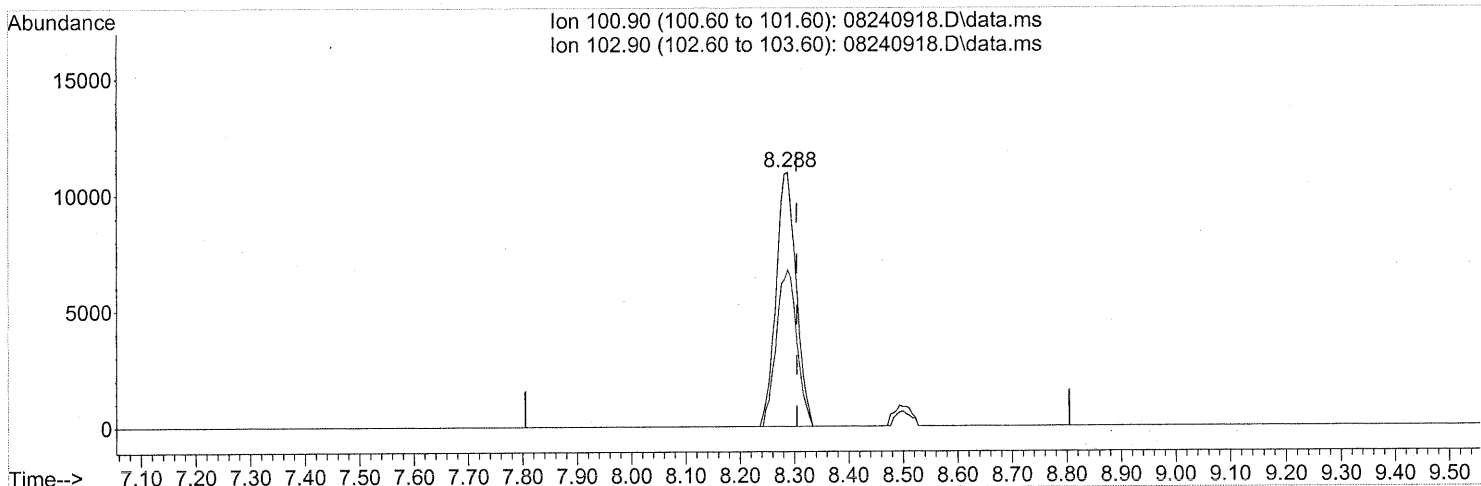
response 1190187

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	298.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.017) 0.78ng

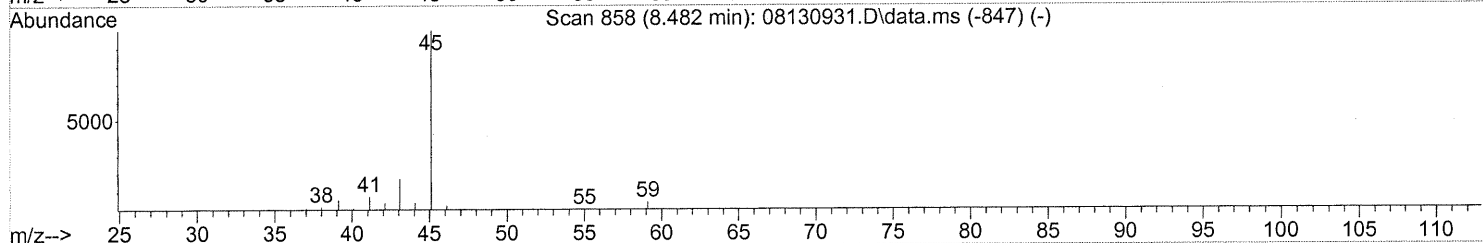
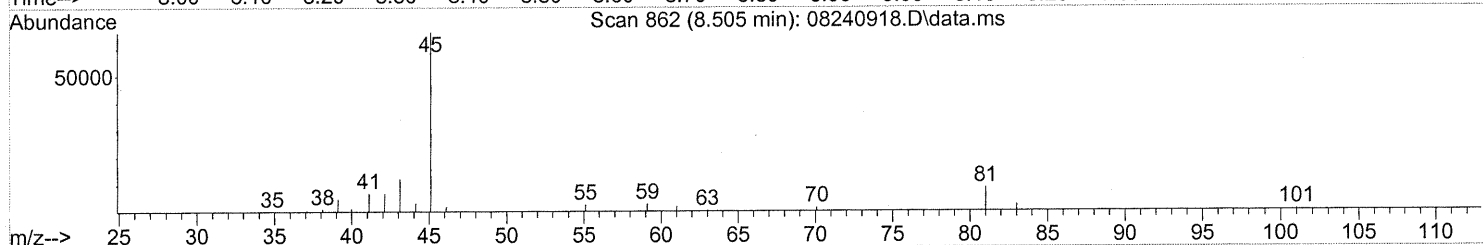
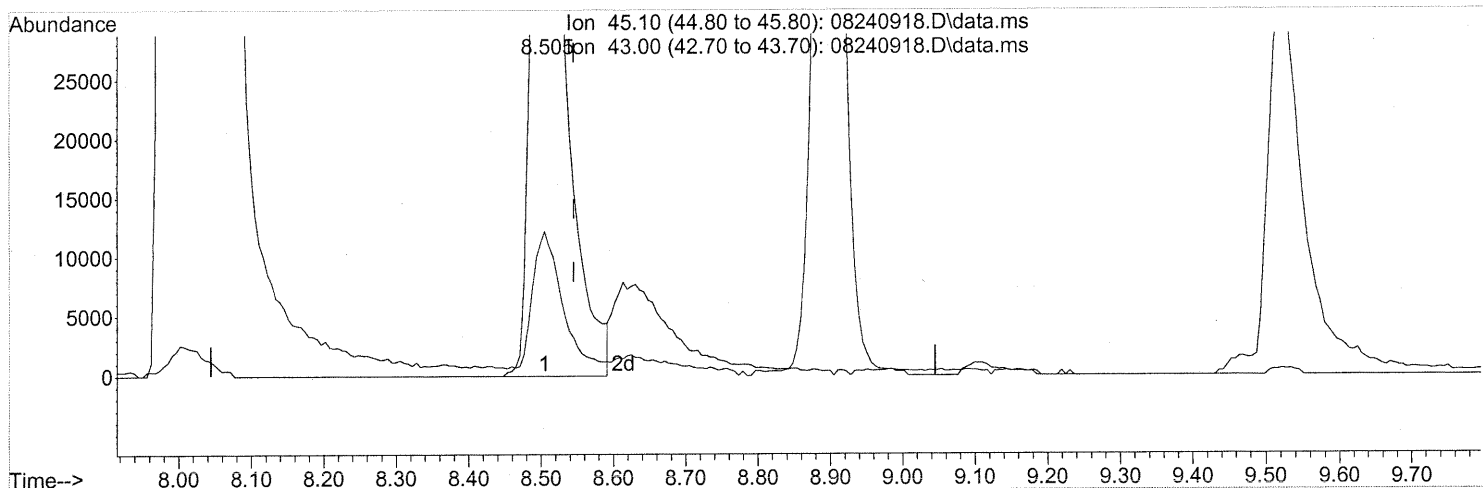
response 28110

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	63.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

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

8.505min (-0.040) 3.81ng

response 196190

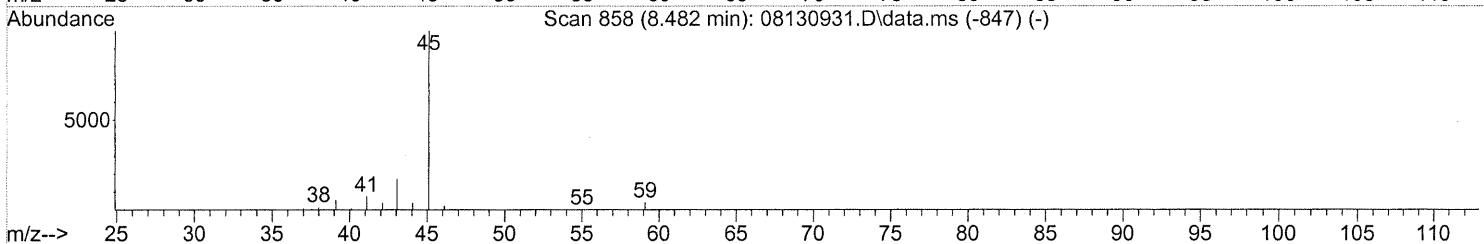
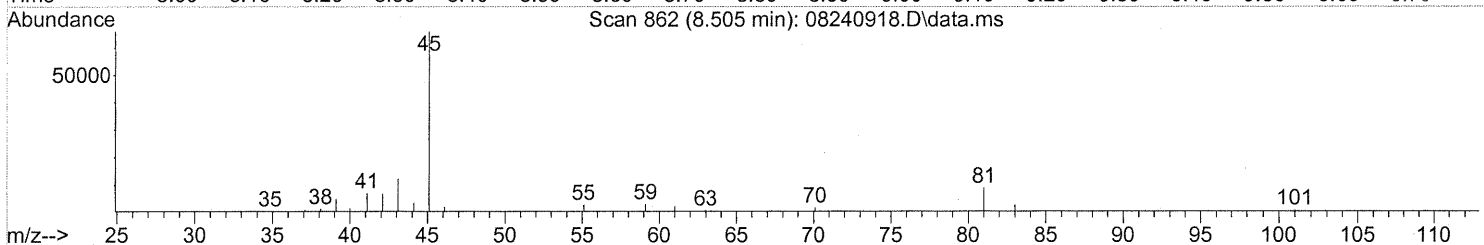
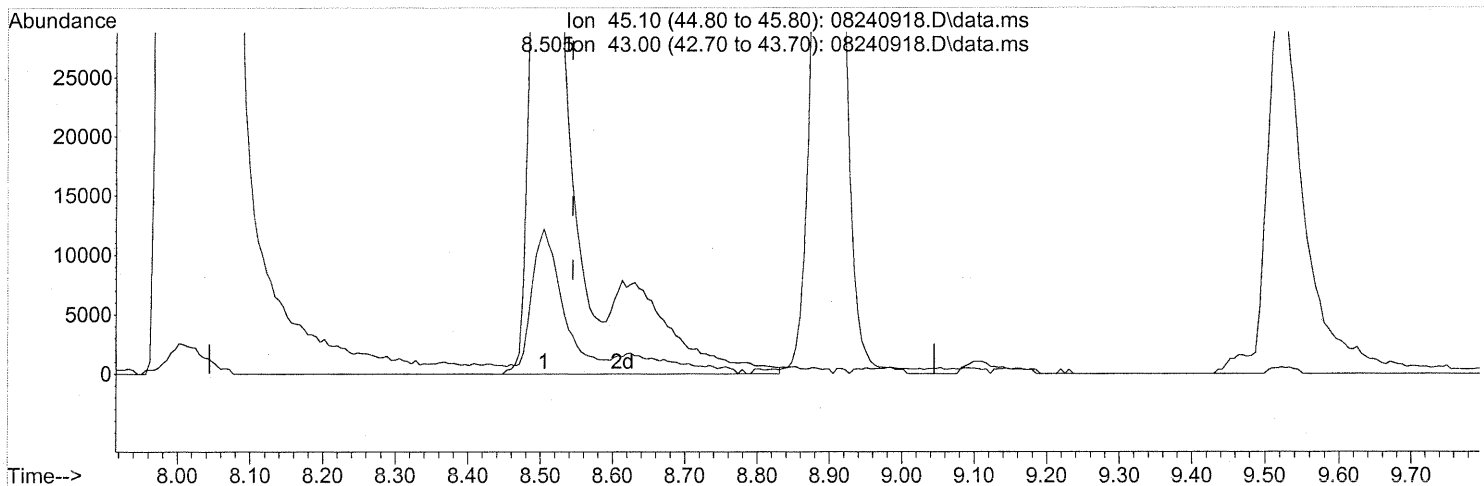
PT

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	16.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

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

8.505min (-0.04) 4.69ng m

response 241514

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	13.69
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

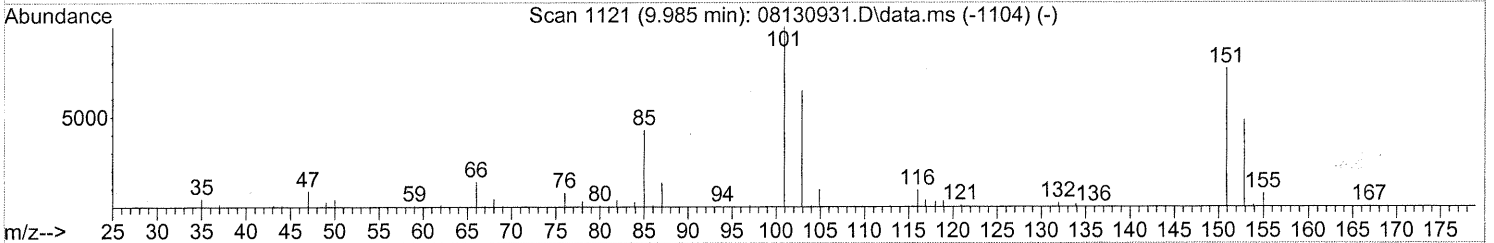
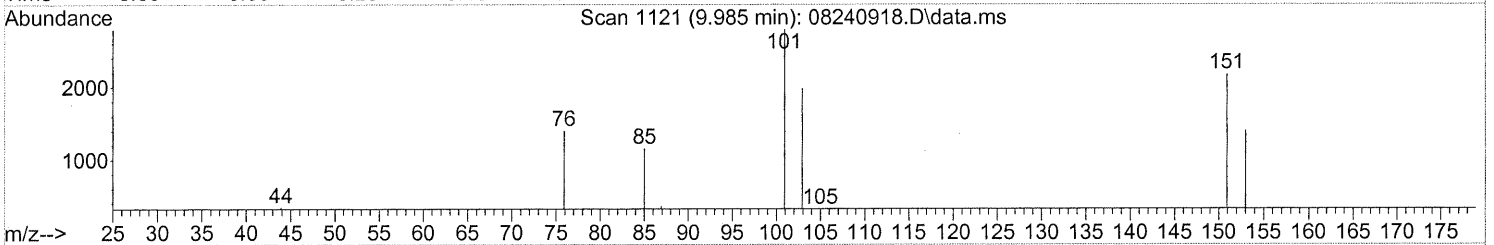
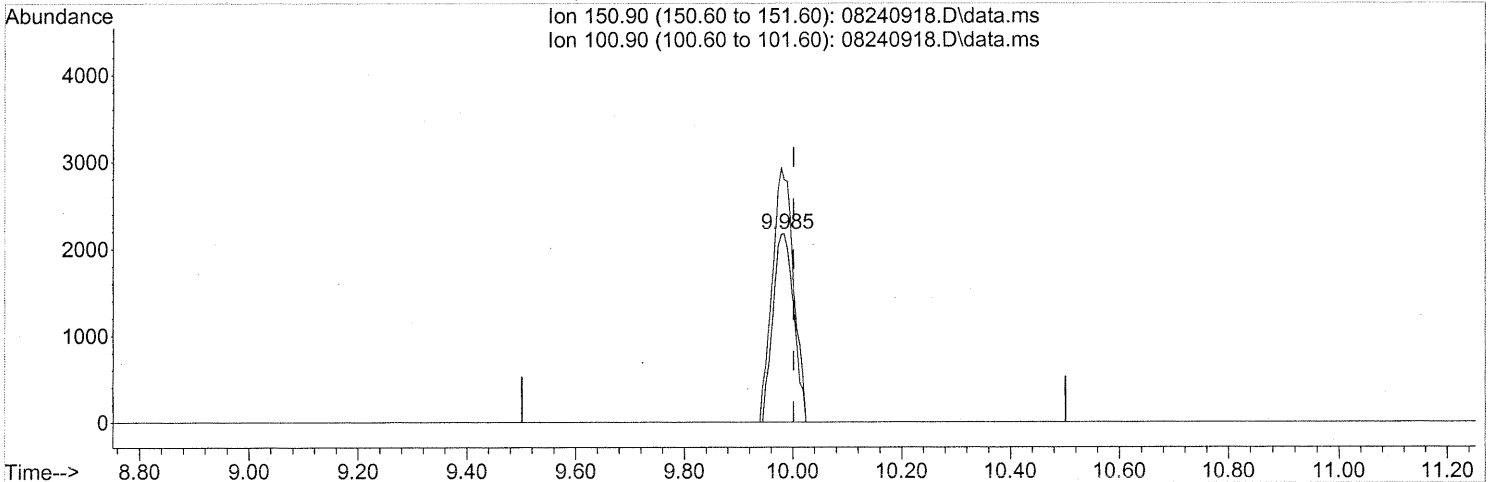
Em 8/28/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.36ng

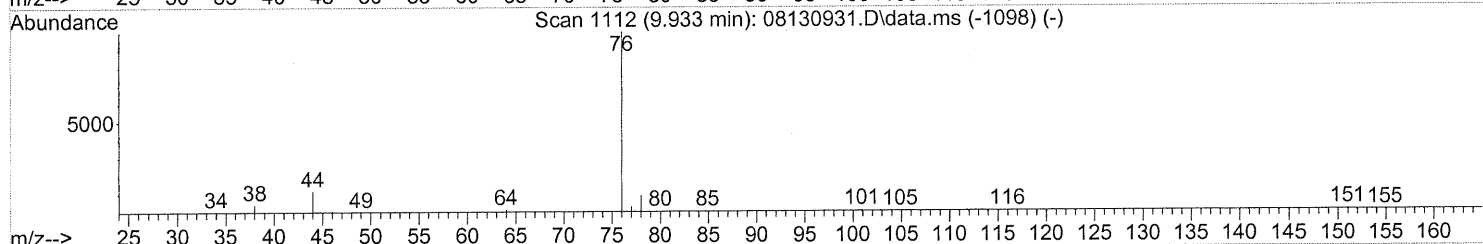
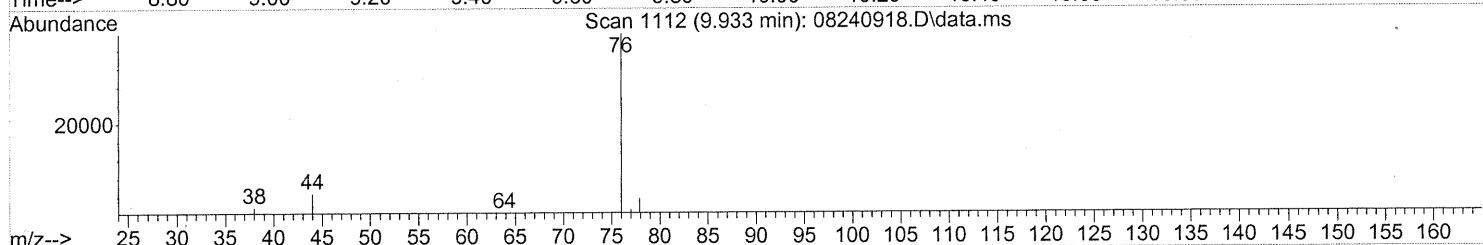
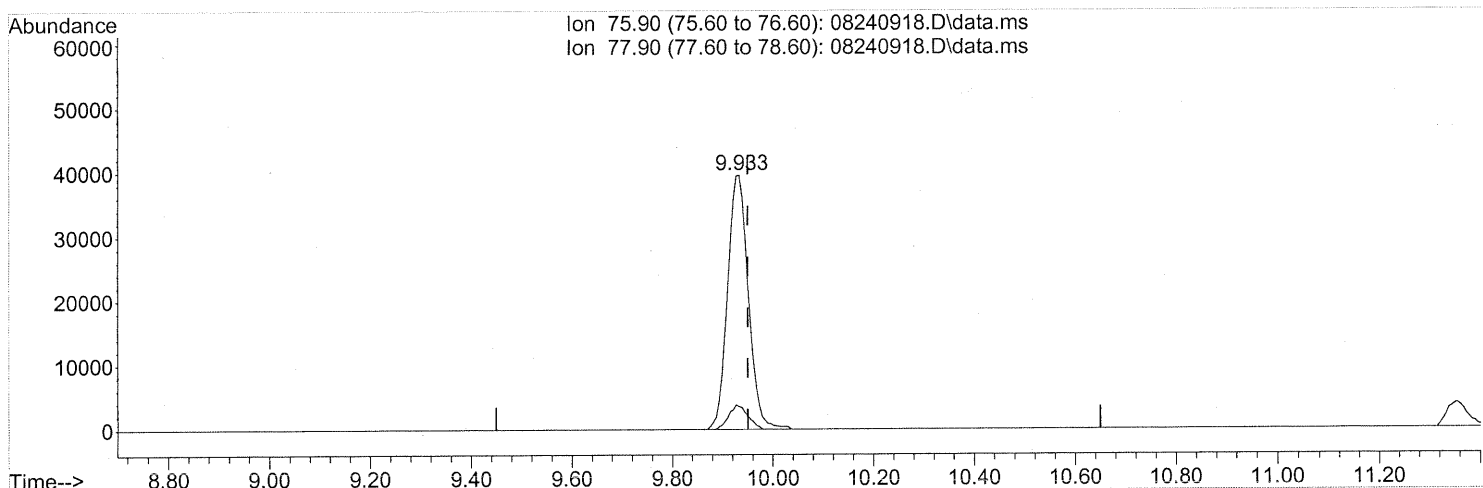
response 5778

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	138.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240918.D
Acq On : 24 Aug 2009 20:29
Operator : EM
Sample : P0902832-002 (1000ml)
Misc : Eng. H&E 101655
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08240918.D\data.ms

(22) Carbon Disulfide (T)

9.933min (-0.017) 1.36ng

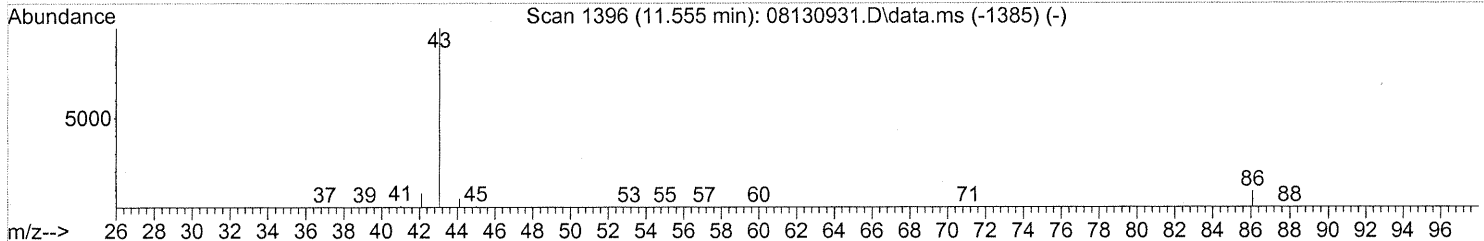
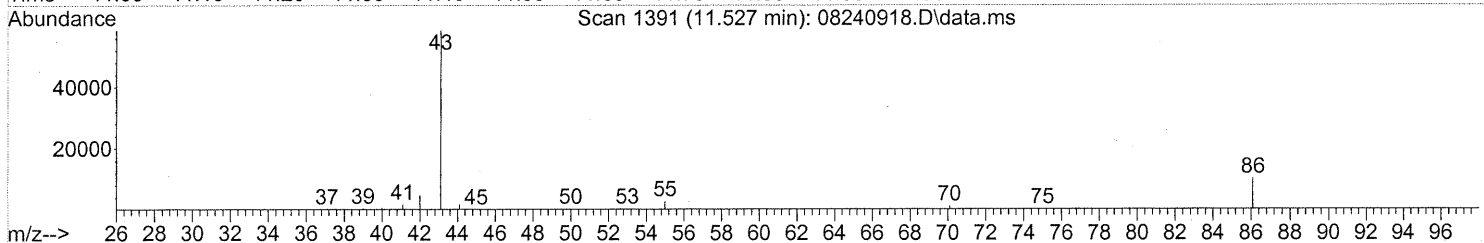
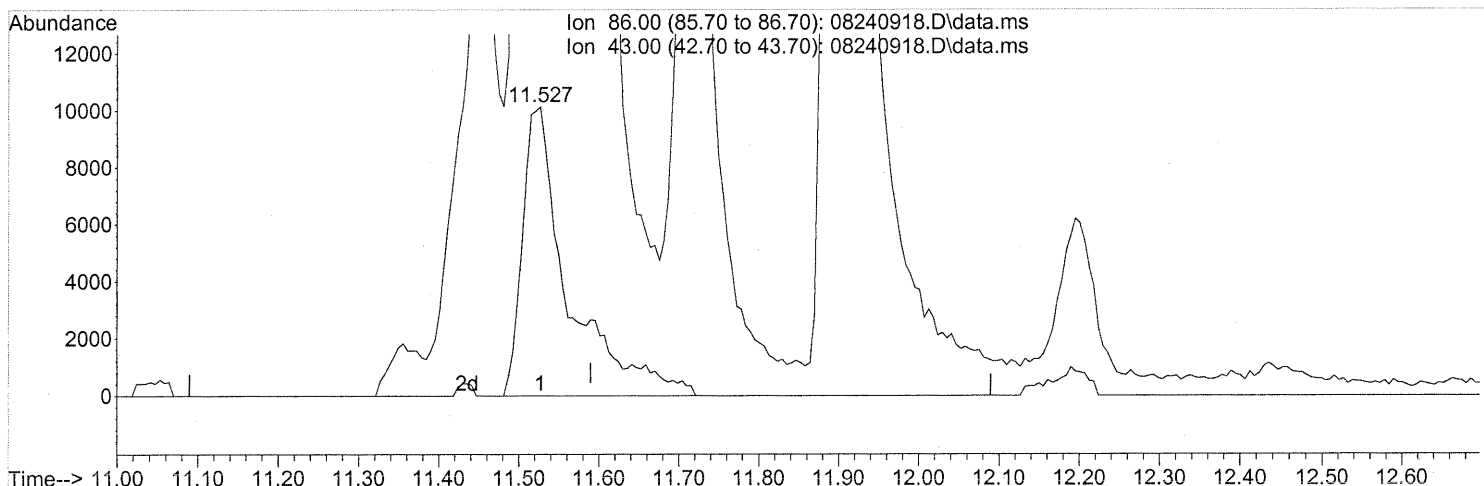
response 112634

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(26) Vinyl Acetate (T)
 11.527min (-0.063) 9.90ng
 response 40300

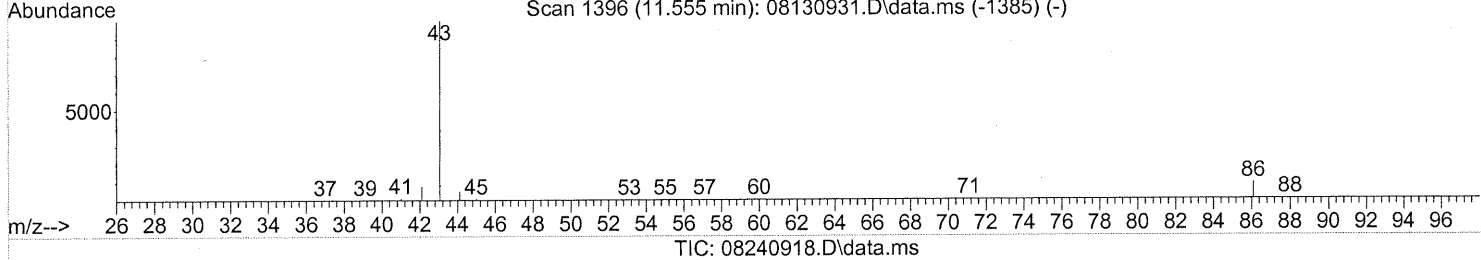
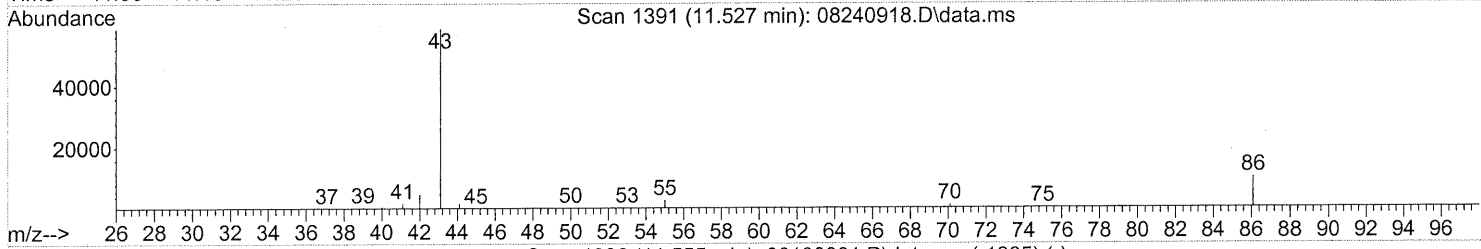
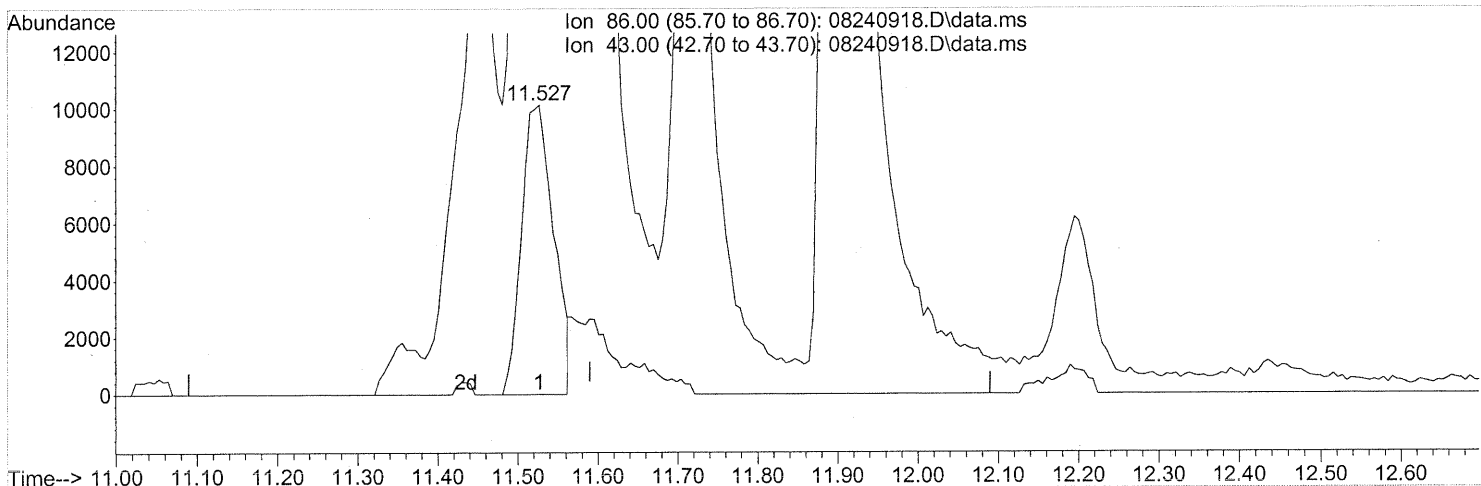
Ion	Exp%	Act%
86.00	100	100
43.00	992.90	460.51#
0.00	0.00	0.00
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.527min (-0.063) 6.94ng m

response 28244

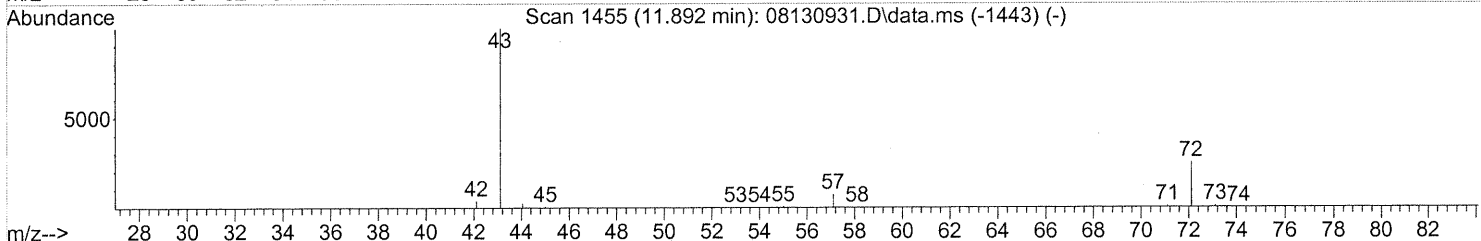
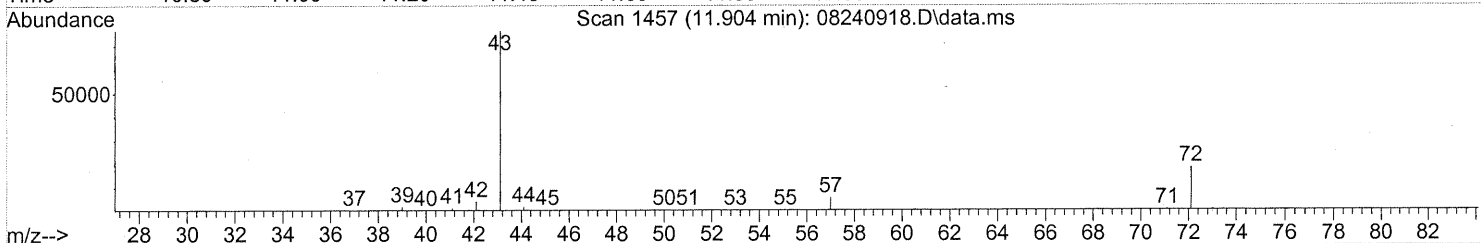
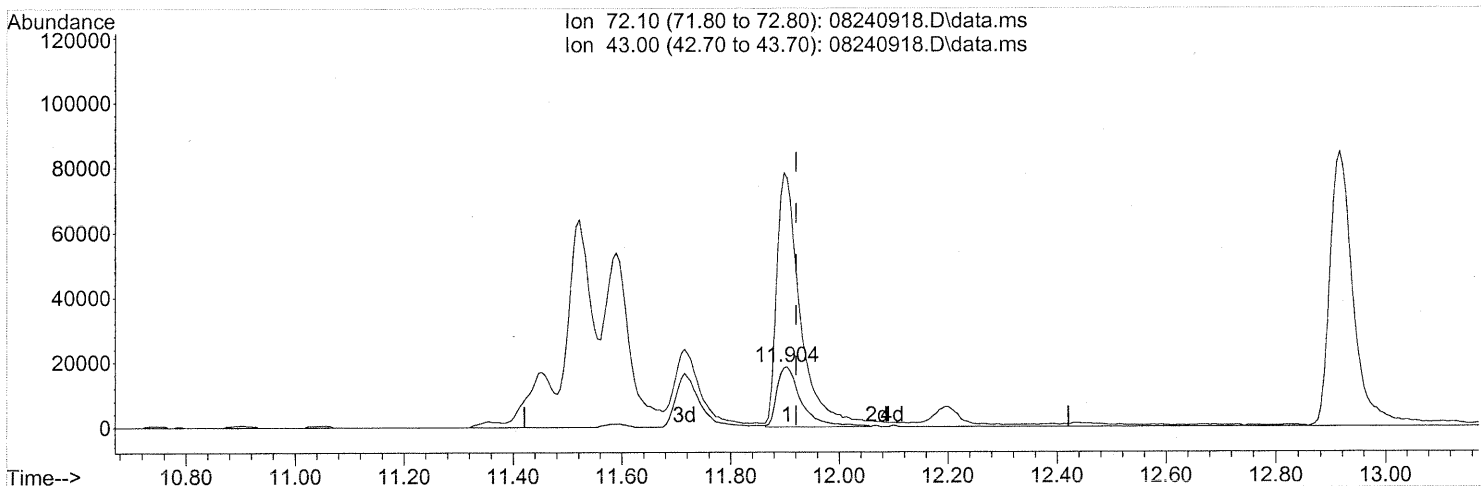
Ion	Exp%	Act%
86.00	100	100
43.00	992.90	657.08#
0.00	0.00	0.00
0.00	0.00	0.00

8H → IC
 em 8/28/09
 @ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

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

11.904min (-0.017) 4.37ng

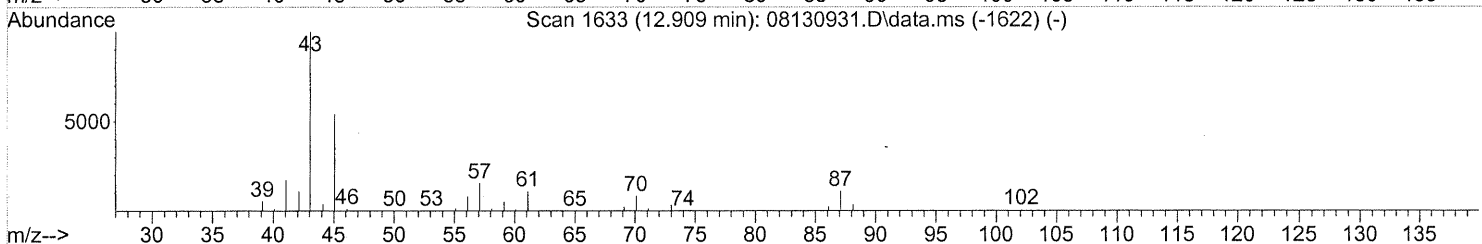
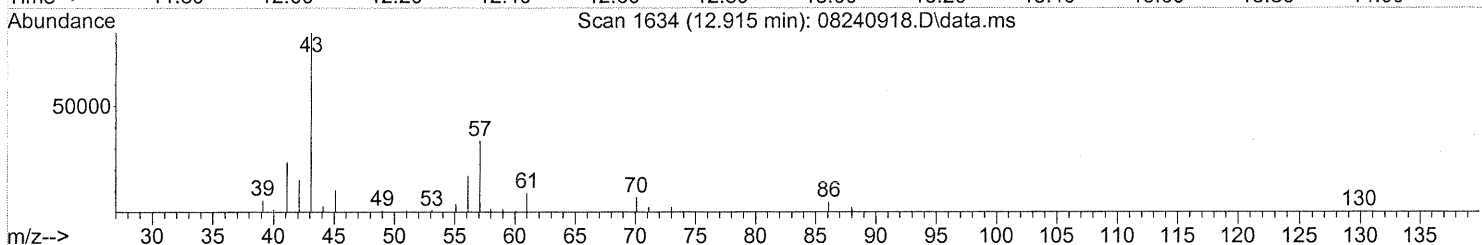
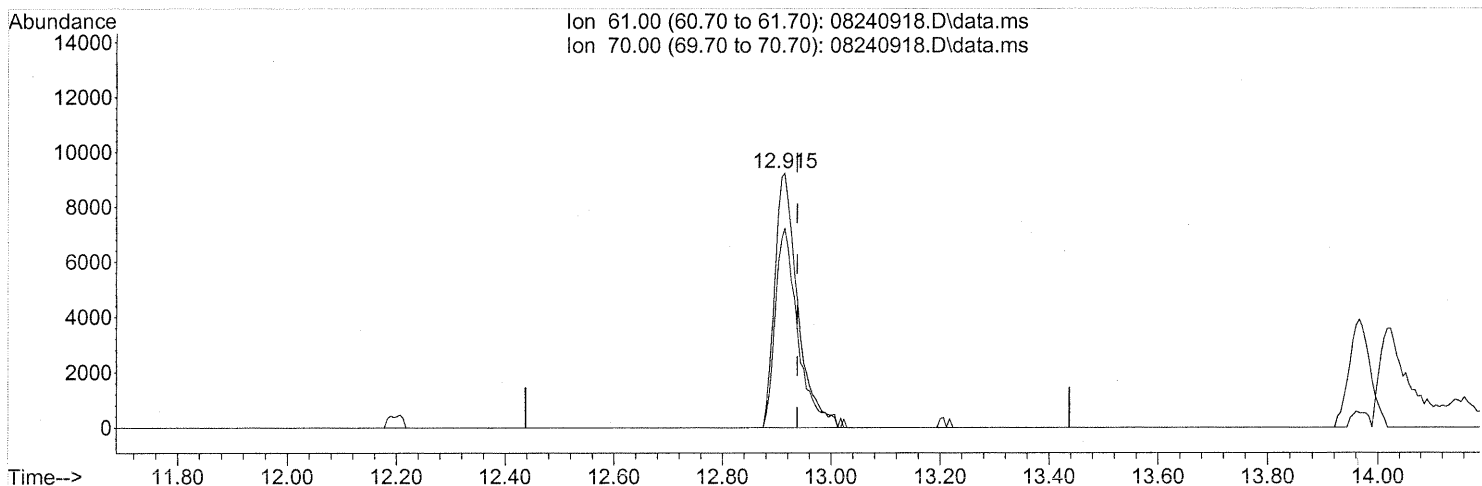
response 57253

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	396.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

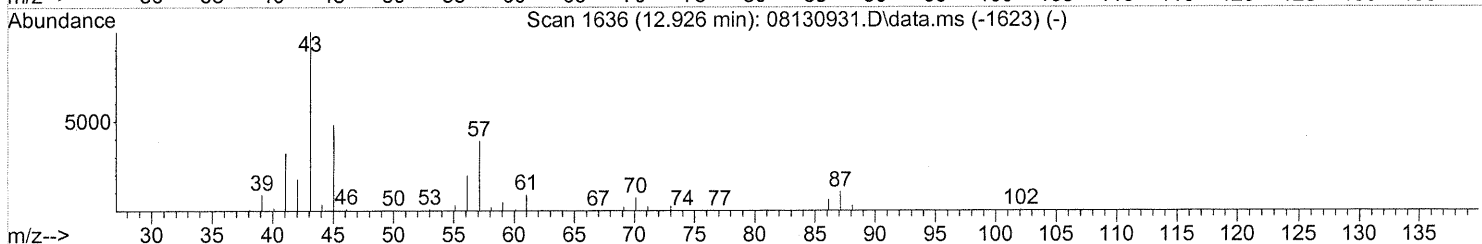
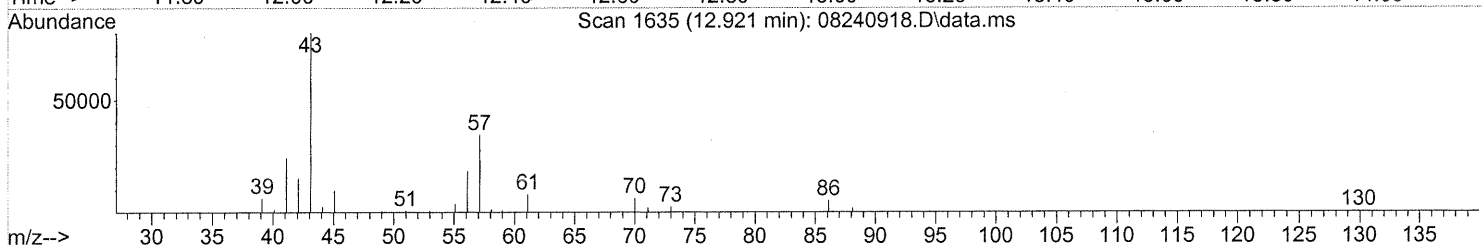
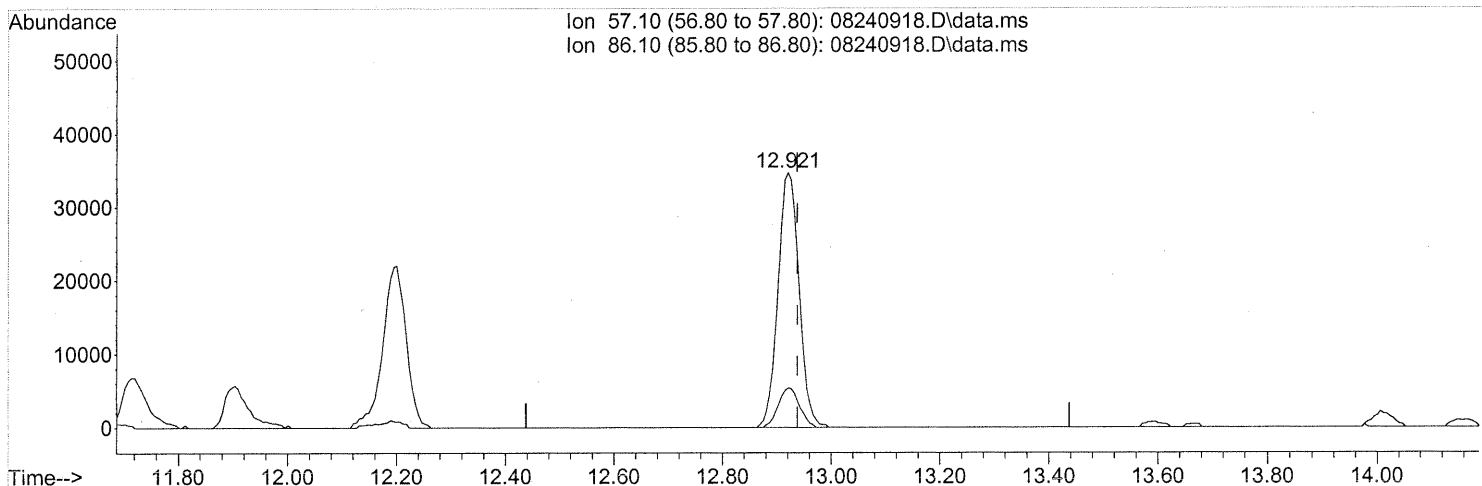
(30) Ethyl Acetate (T)
 12.915min (-0.023) 3.20ng
 response 27210

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	76.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(31) n-Hexane (T)

12.921min (-0.017) 2.23ng

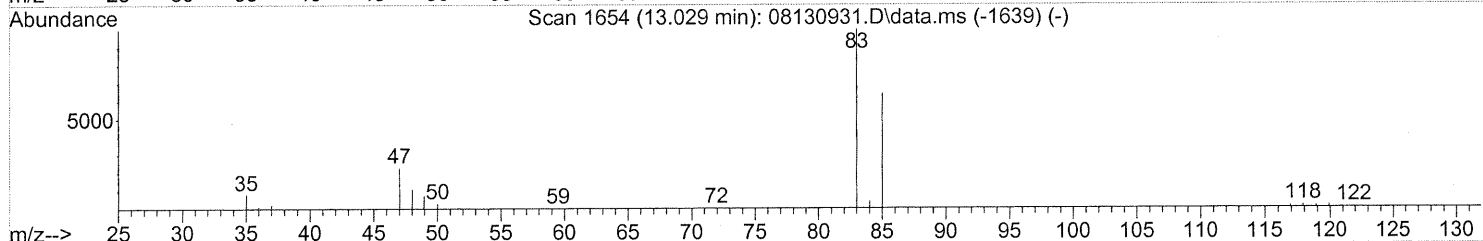
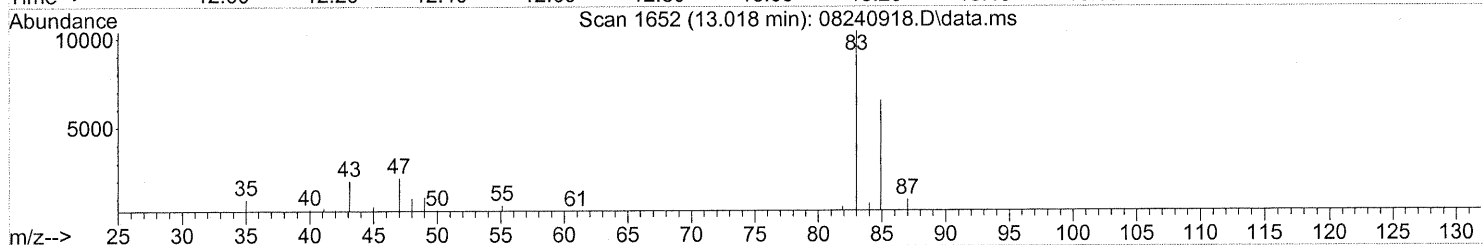
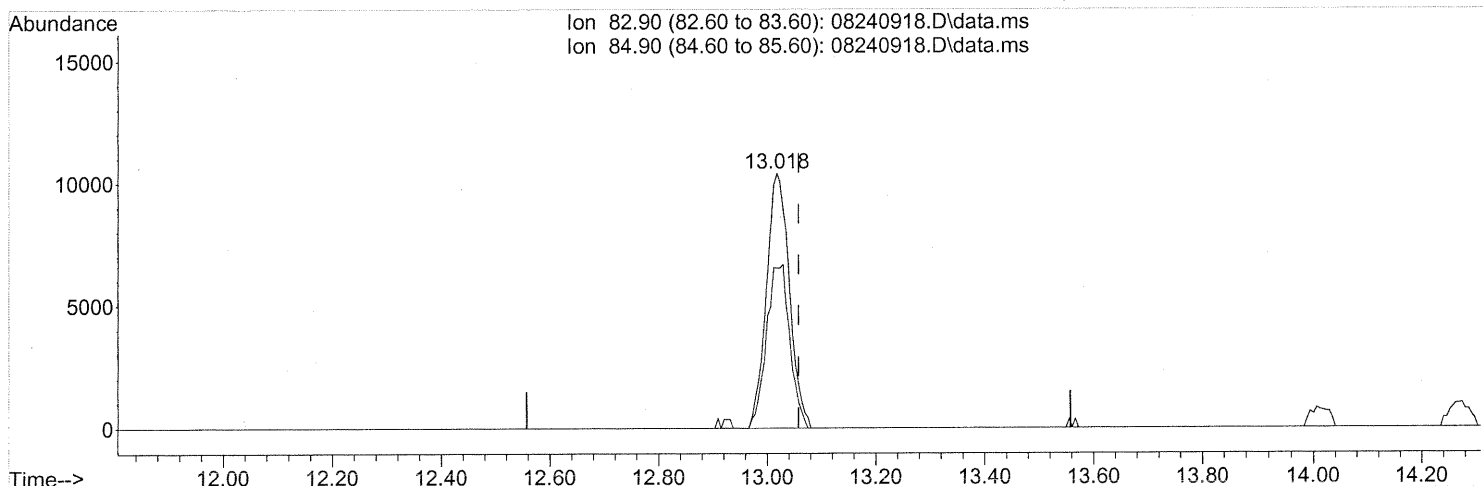
response 92495

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(32) Chloroform (T)

13.018min (-0.040) 0.88ng

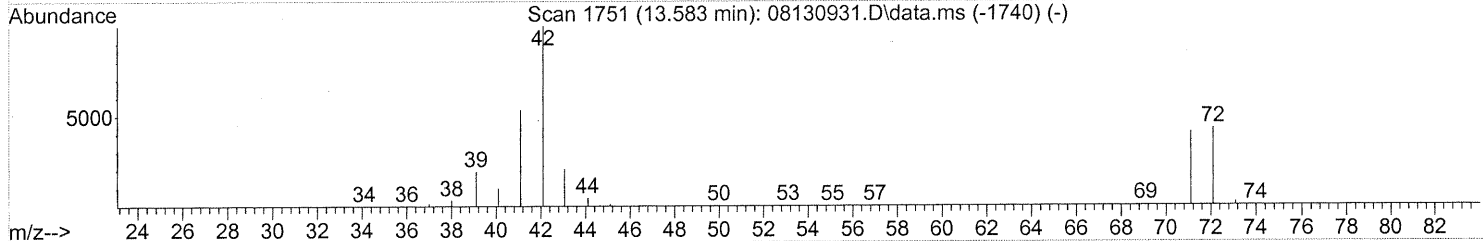
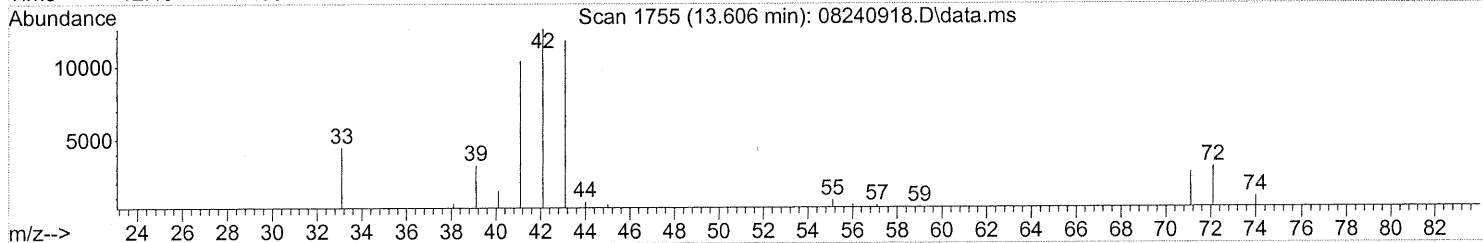
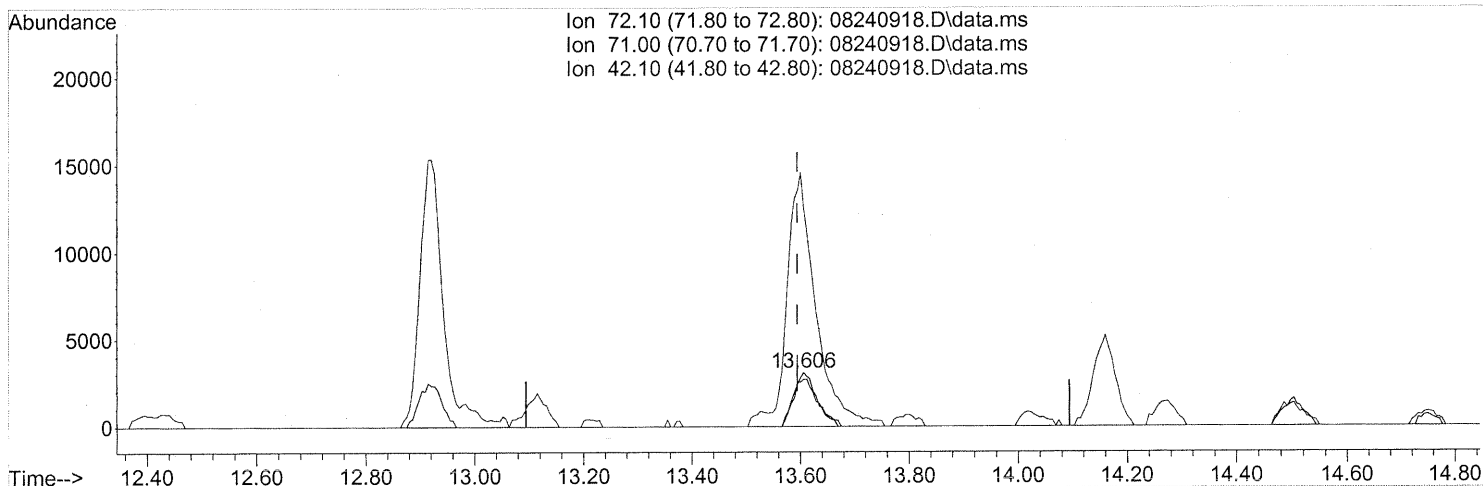
response 30553

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.606min (+0.011) 0.67ng

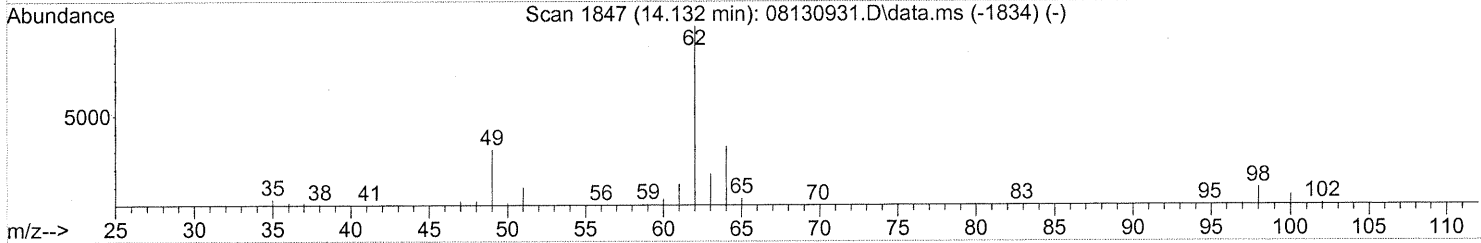
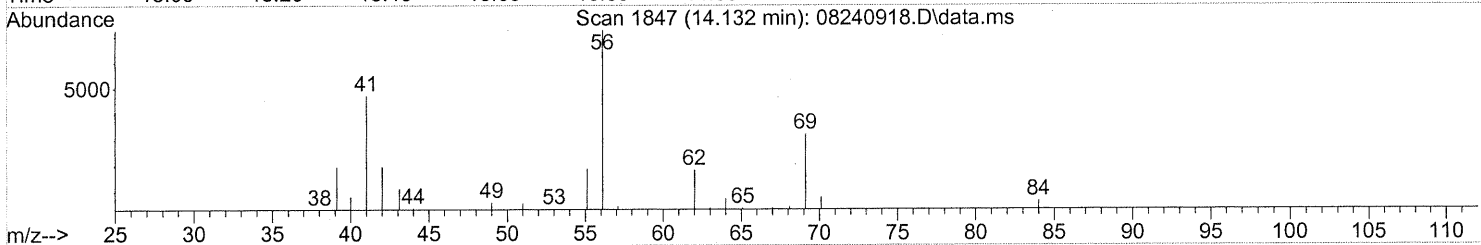
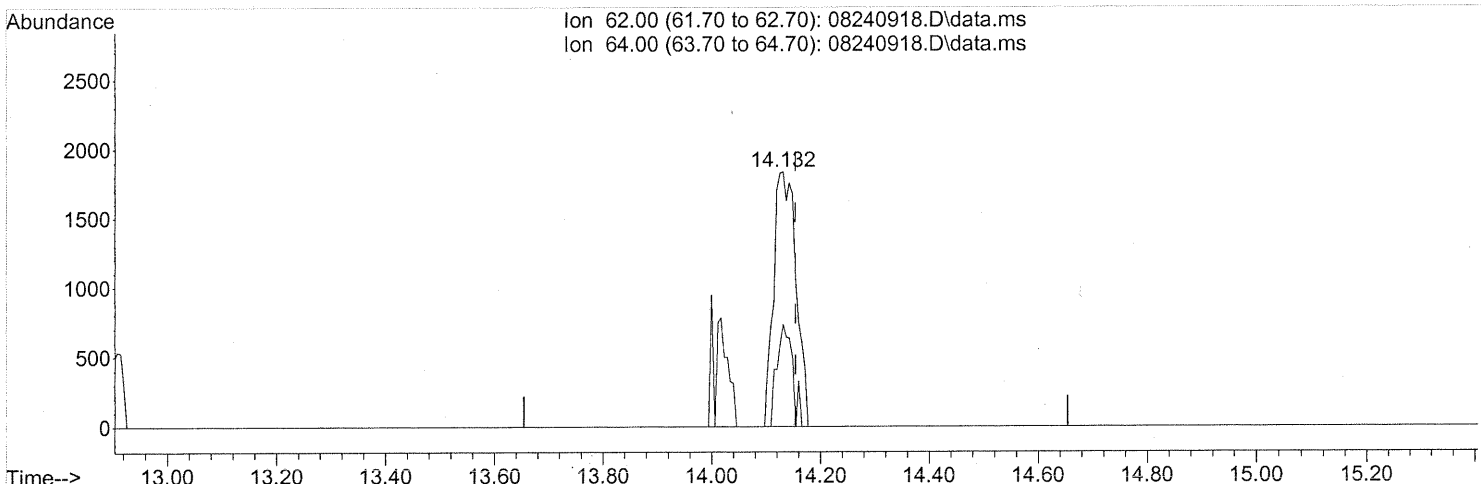
response 9143

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	91.99
42.10	206.50	571.31#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 0.20ng

response 5240

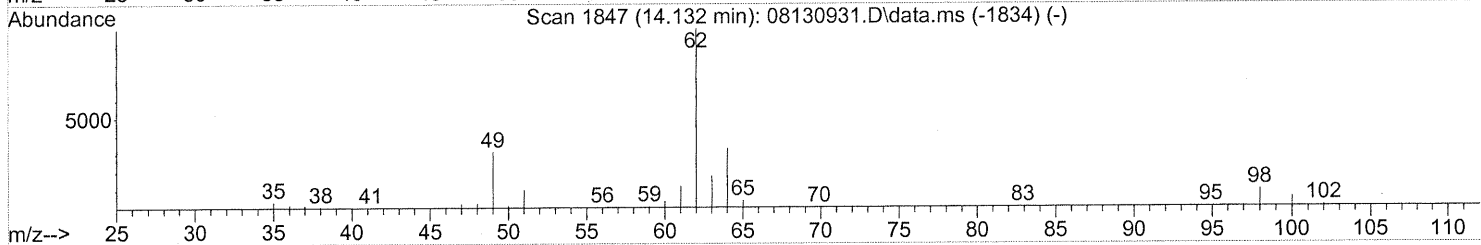
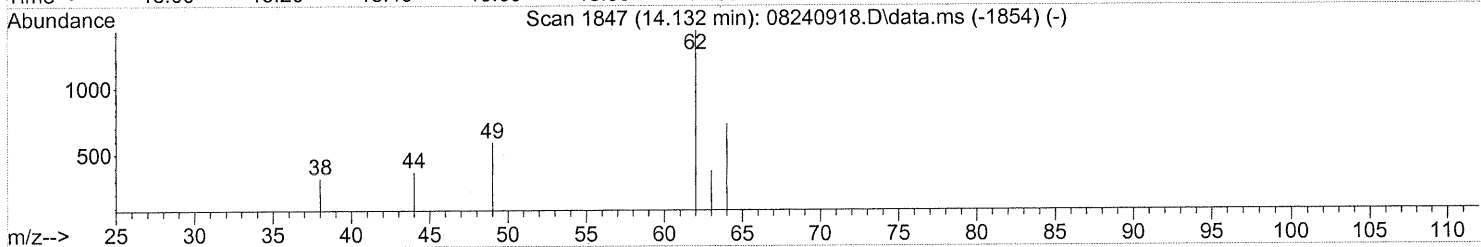
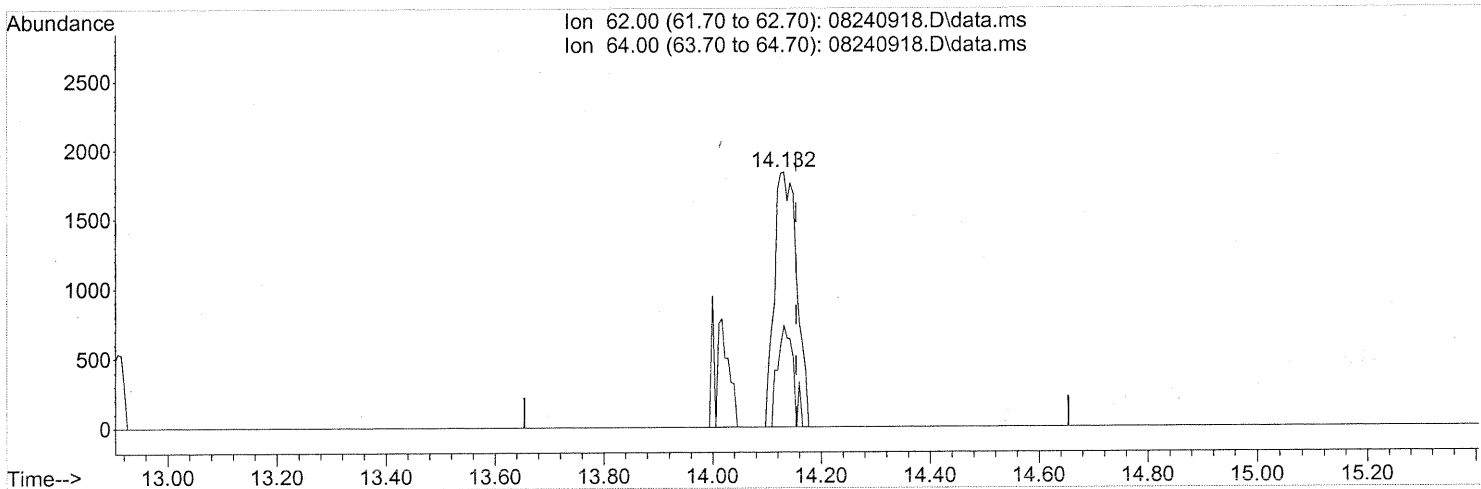
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	27.60
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 0.20ng

response 5240

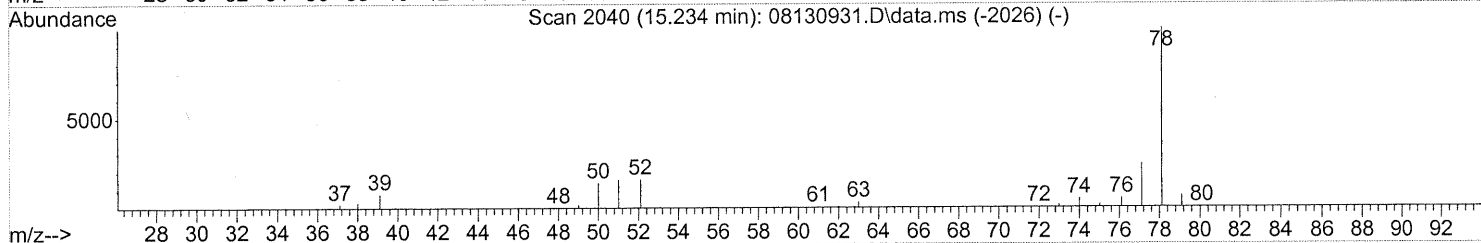
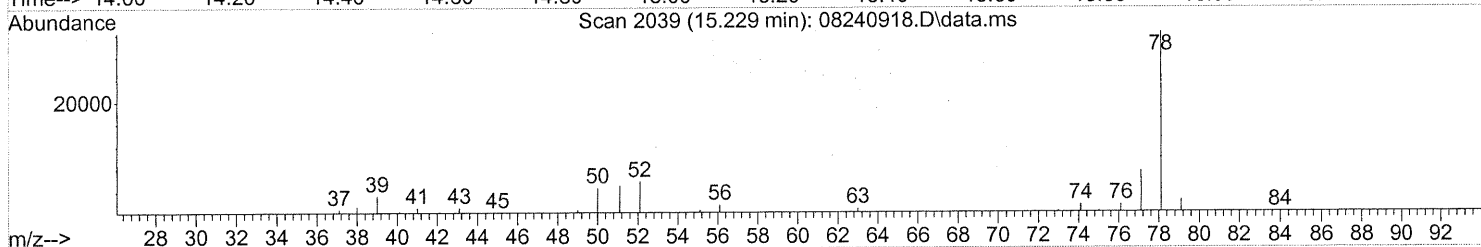
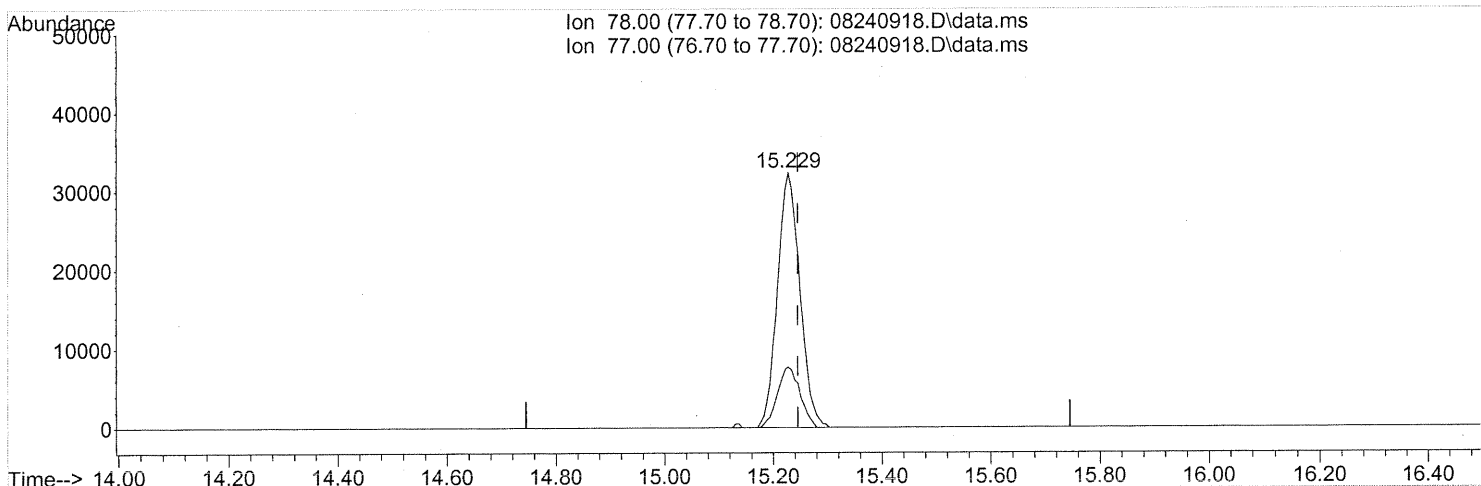
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	27.60
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
em 8/28/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(41) Benzene (T)

15.229min (-0.017) 1.00ng

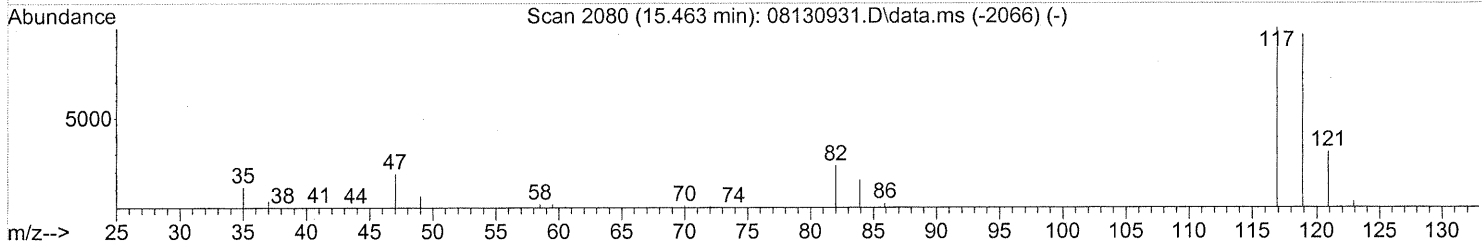
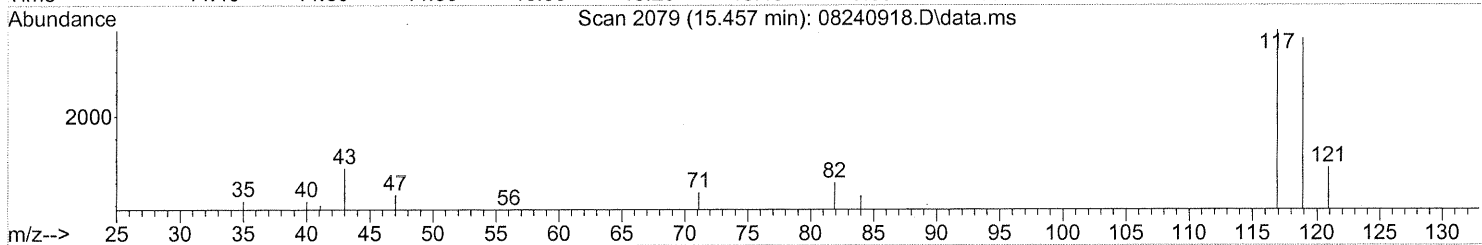
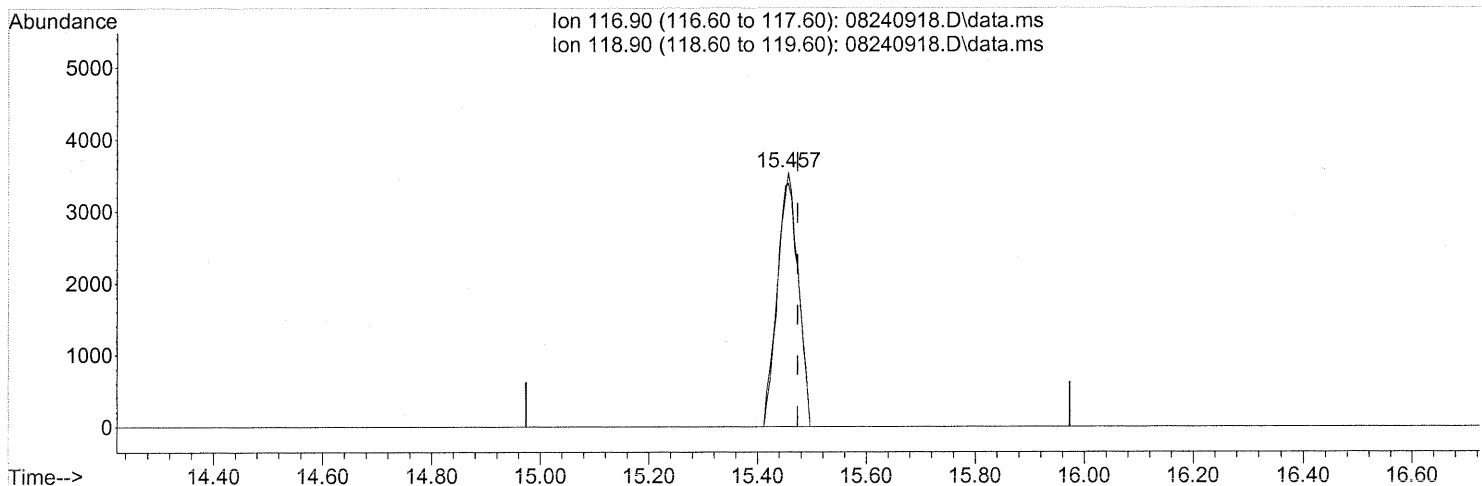
response 91755

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	23.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.37ng

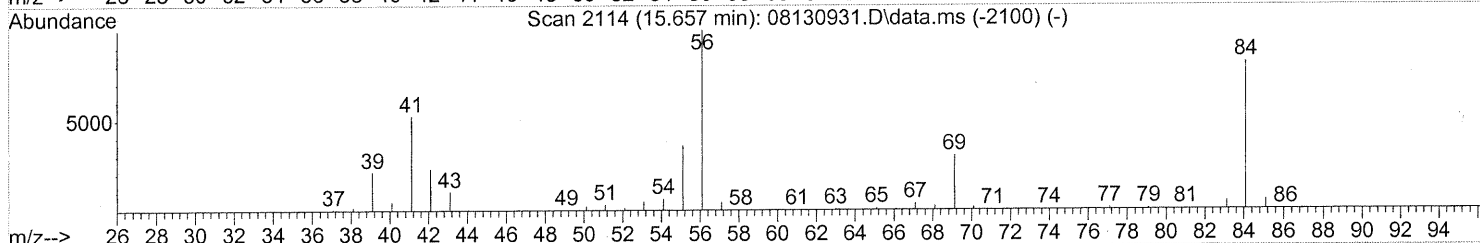
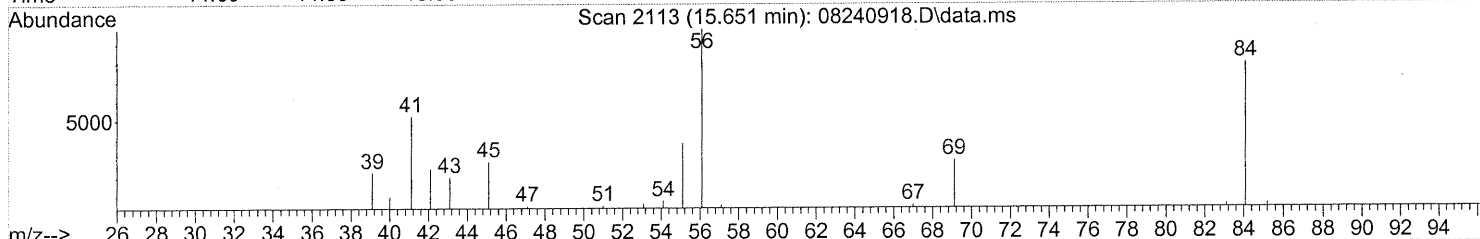
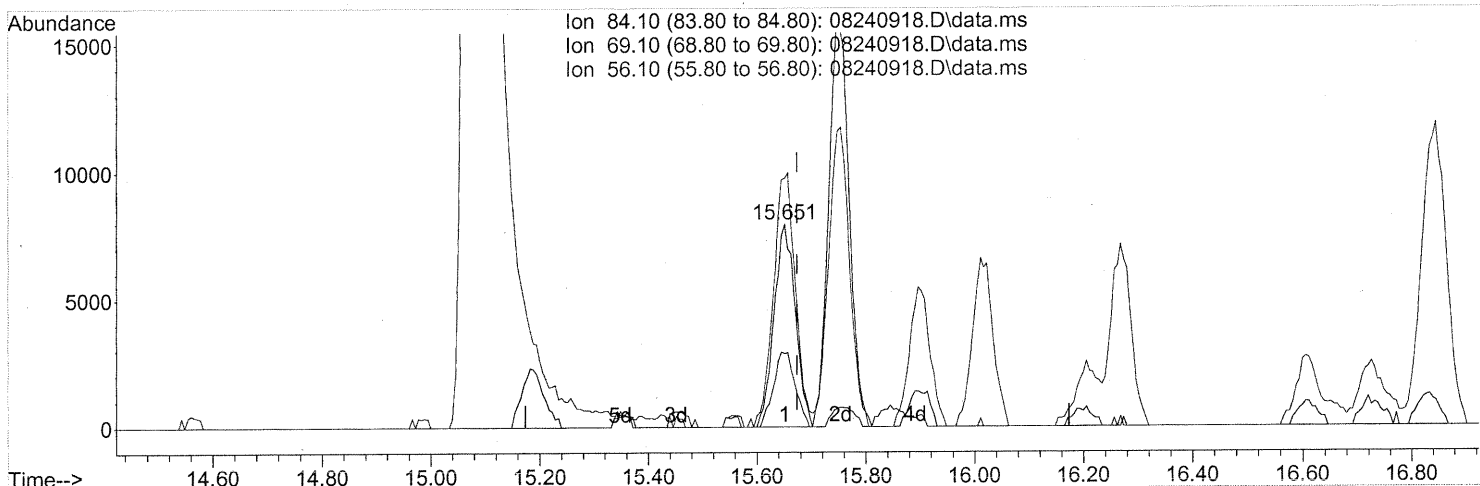
response 9430

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	97.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



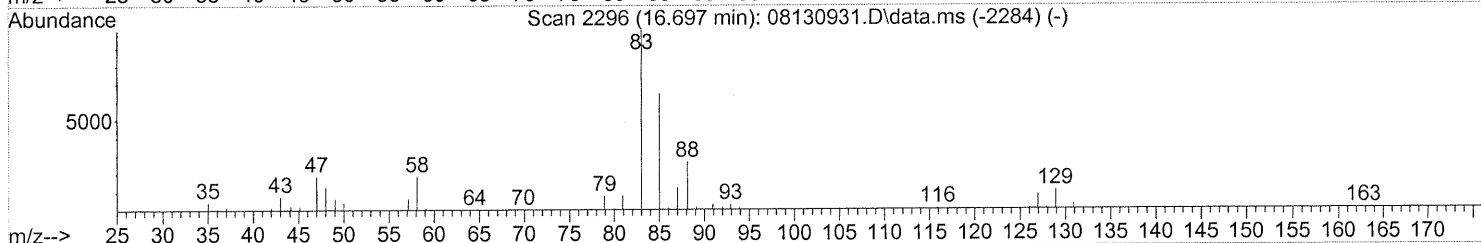
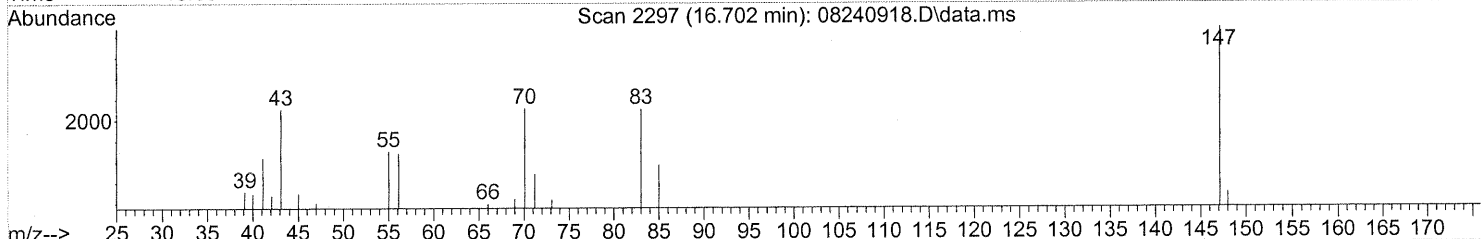
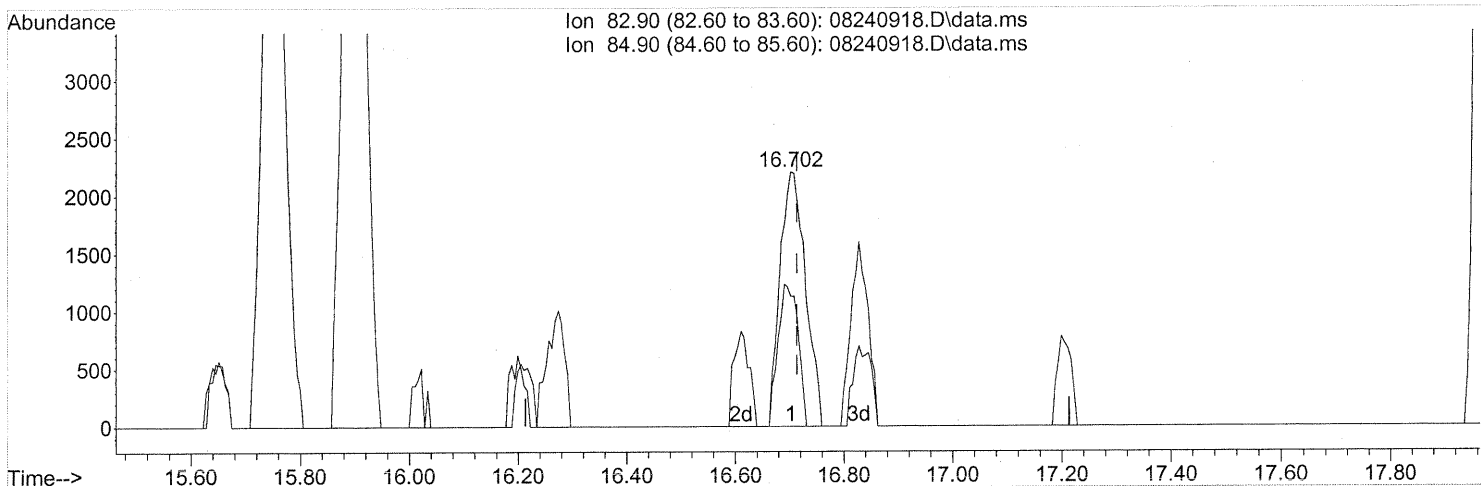
(43) Cyclohexane (T)
 15.651min (-0.023) 0.60ng
 response 21518

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	37.61
56.10	107.30	130.80#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.702min (-0.011) 0.27ng

response 7157

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	43.85#
0.00	0.00	0.00
0.00	0.00	0.00

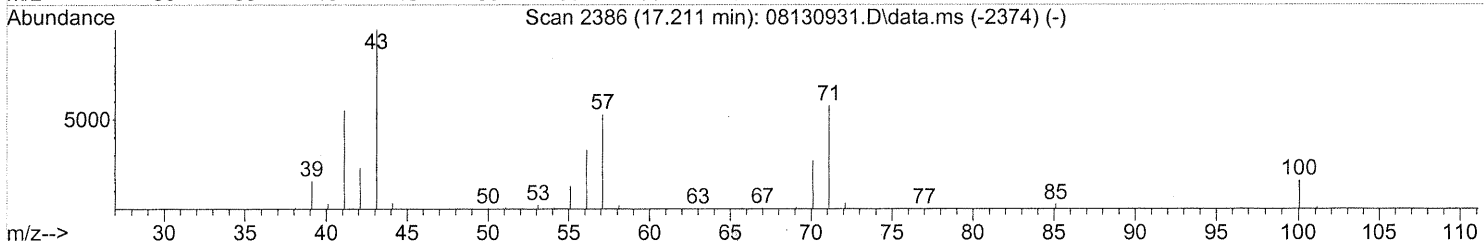
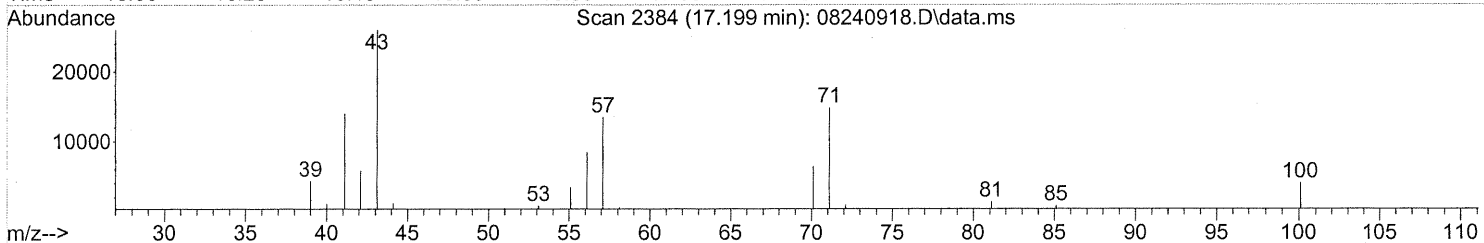
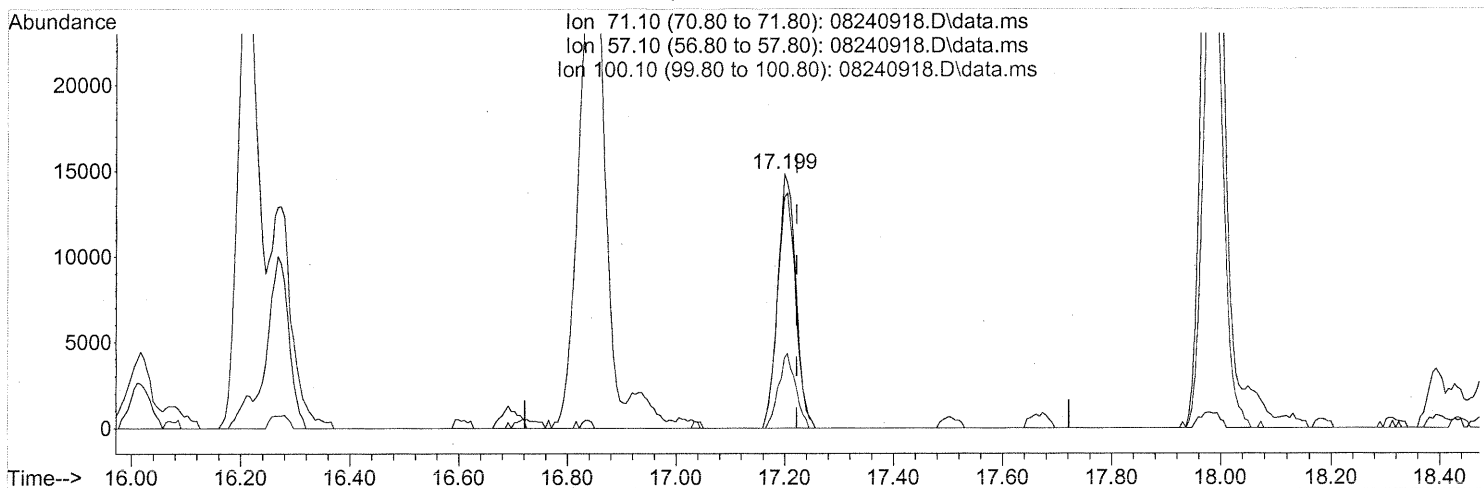
FP Em 8/28/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



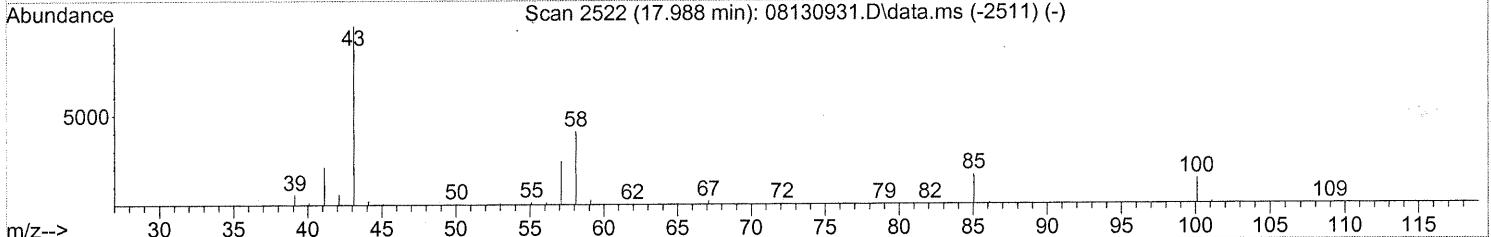
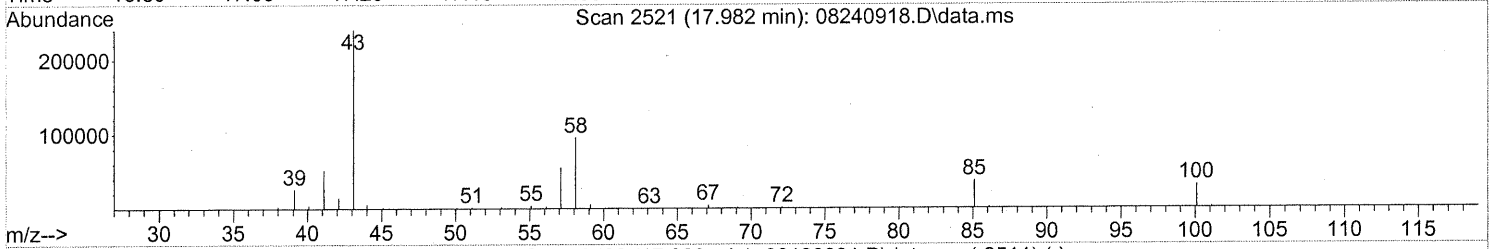
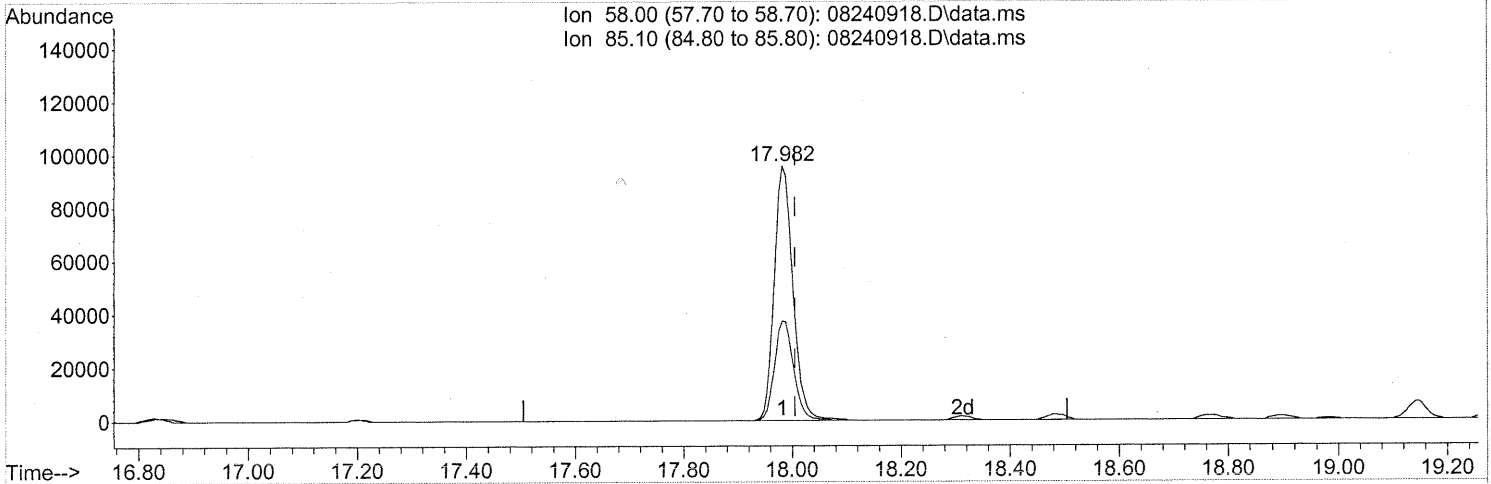
(51) n-Heptane (T)
 17.199min (-0.023) 1.39ng
 response 34136

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	92.89
100.10	30.70	27.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

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

17.982min (-0.023) 11.41ng

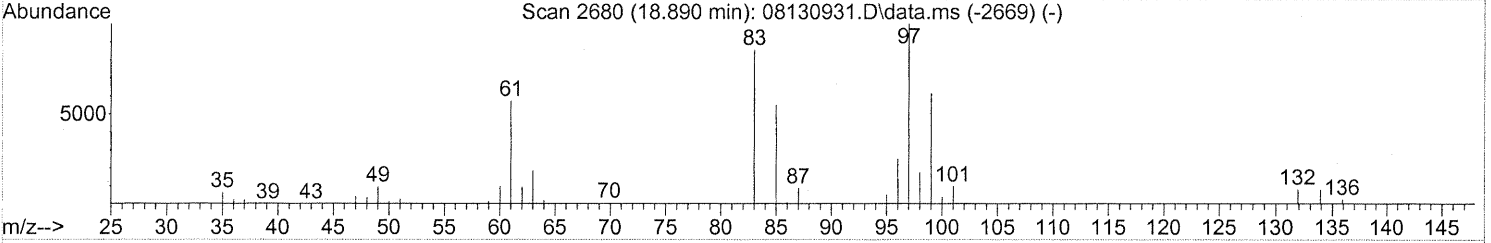
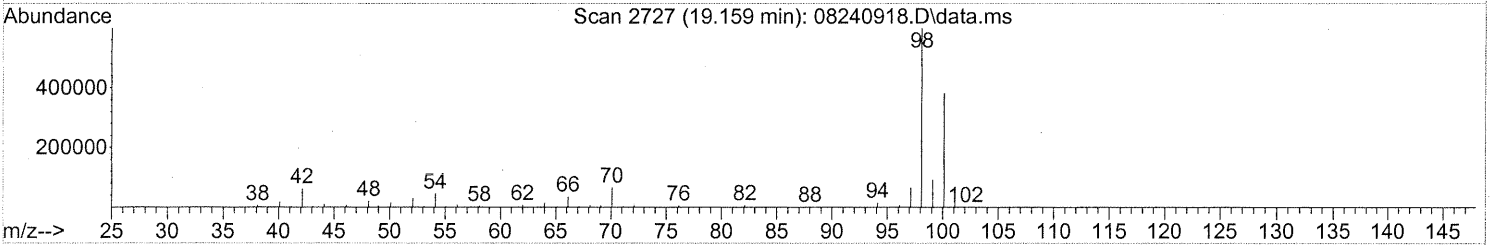
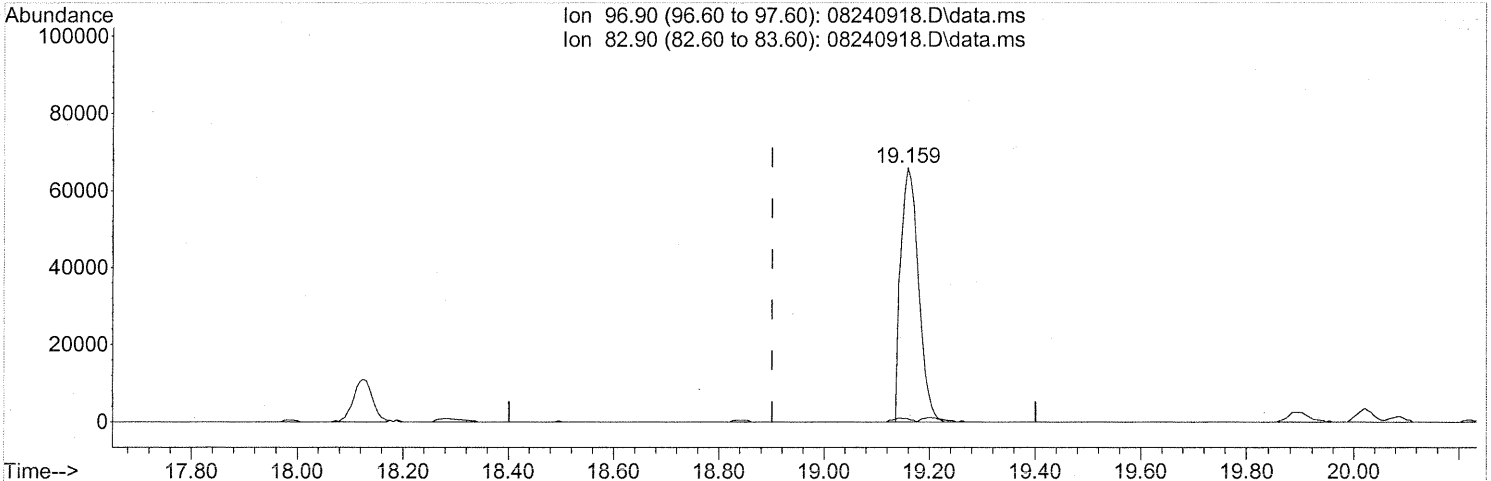
response 226829

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	39.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

19.159min (+0.257) 7.87ng

response 154693

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.31#
0.00	0.00	0.00
0.00	0.00	0.00

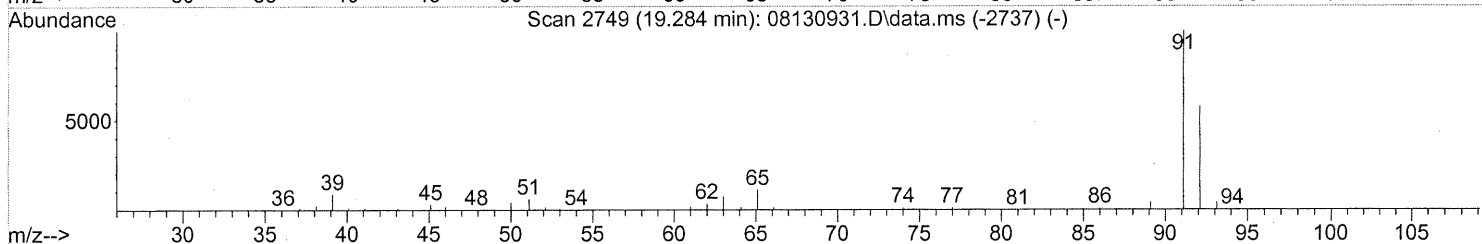
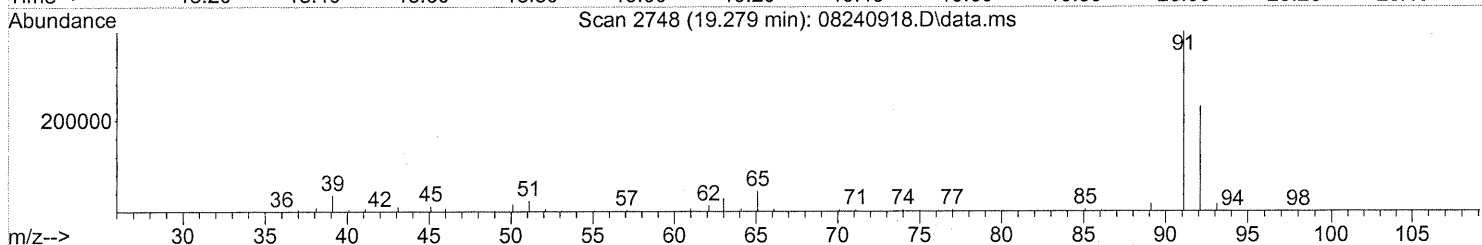
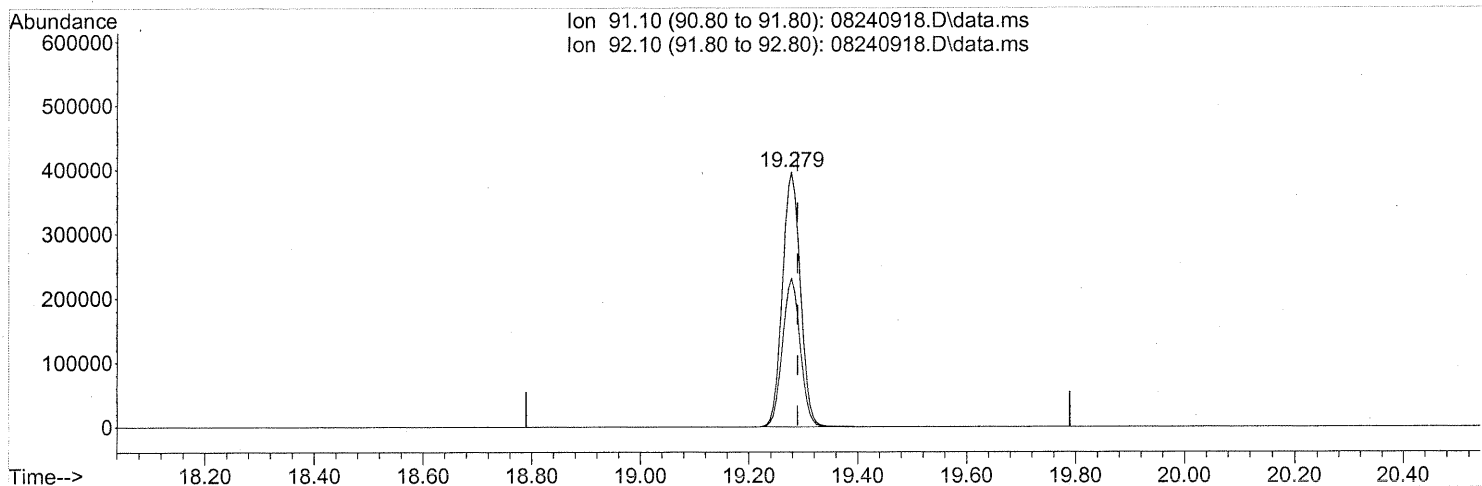
FP em 8/28/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 9.92ng

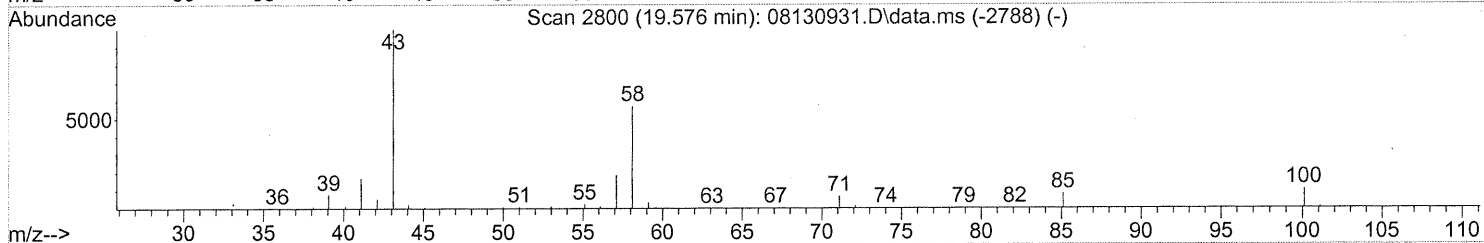
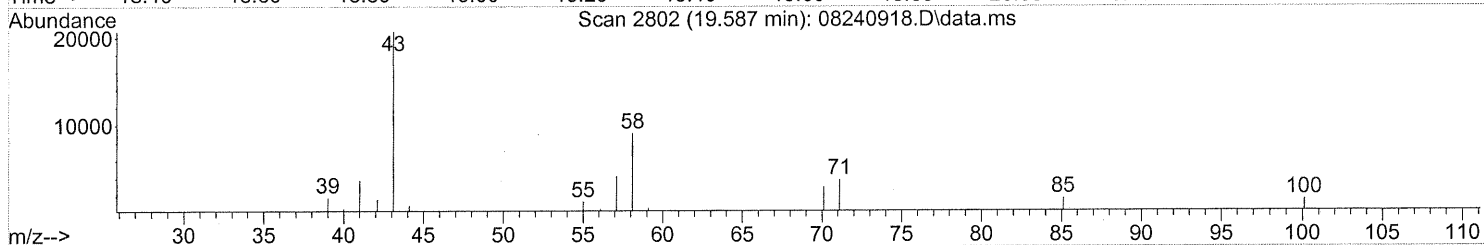
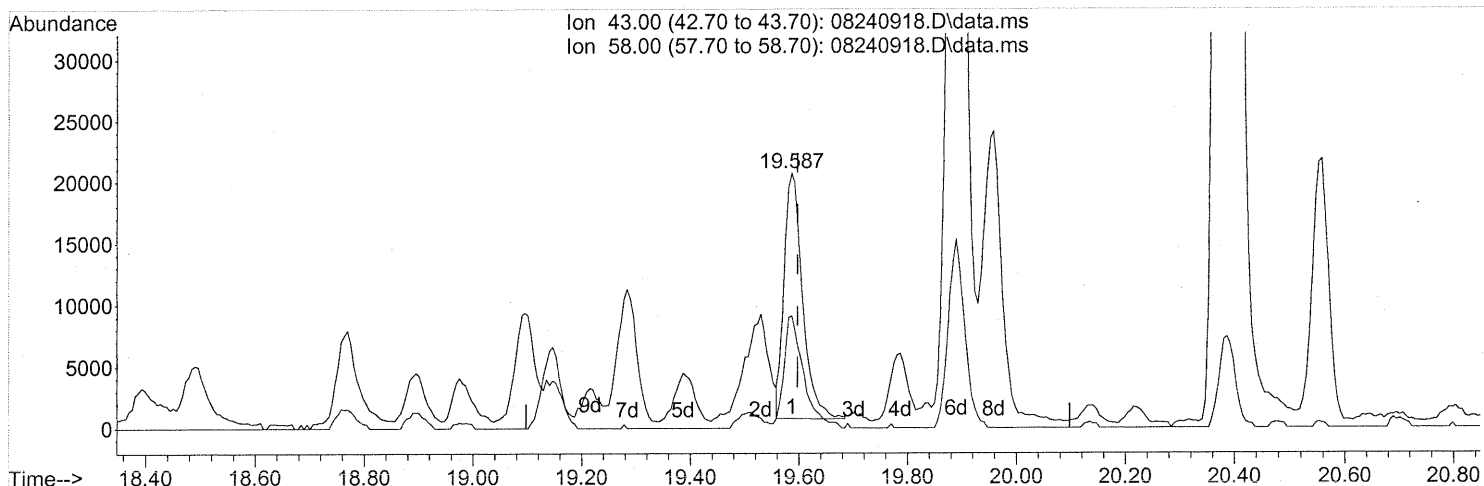
response 913101

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(59) 2-Hexanone (T)

19.587min (-0.011) 0.99ng

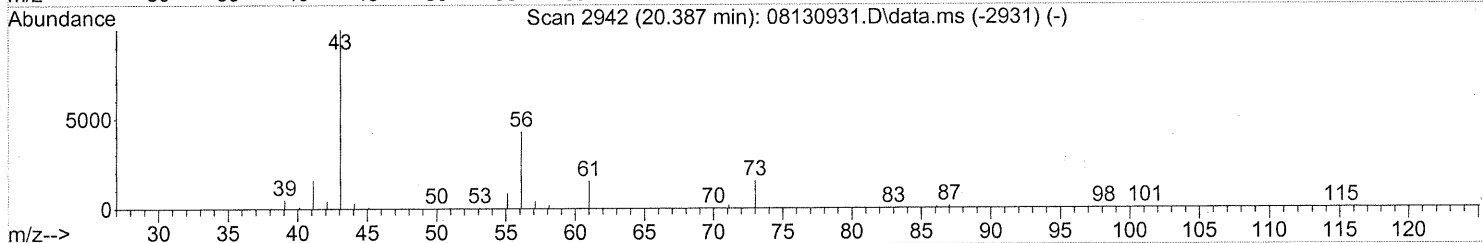
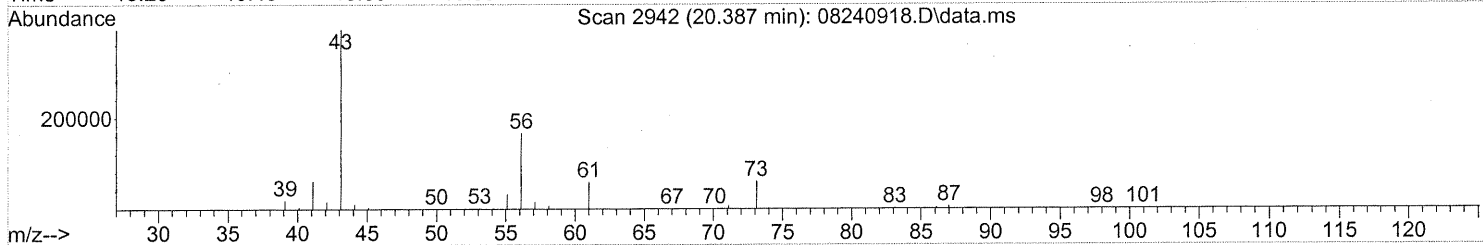
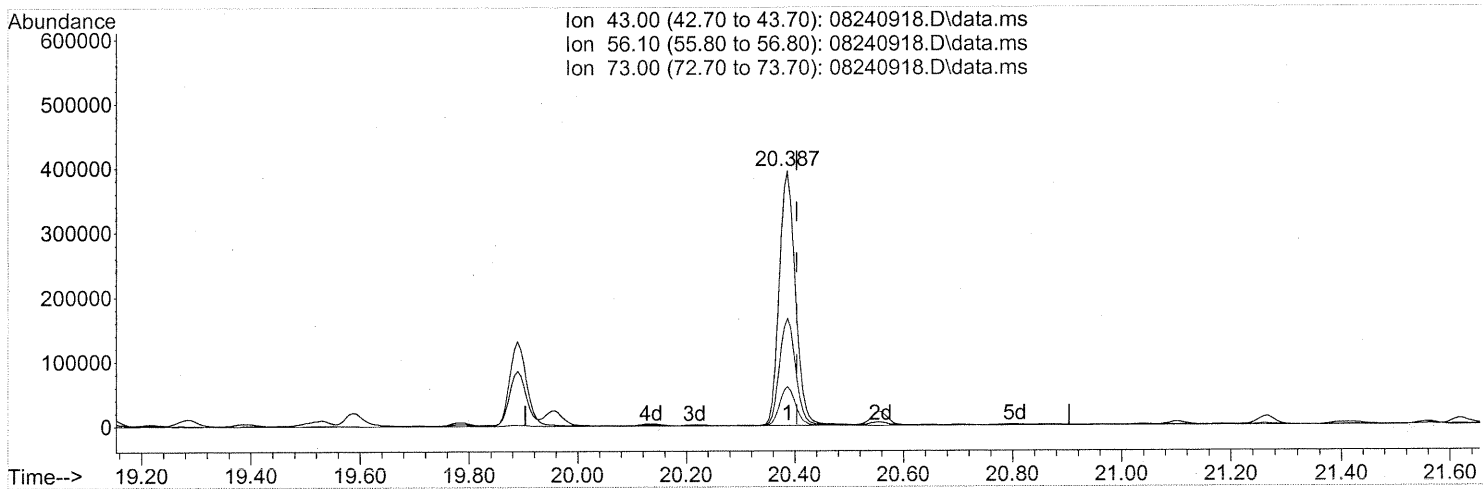
response 47465

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	48.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

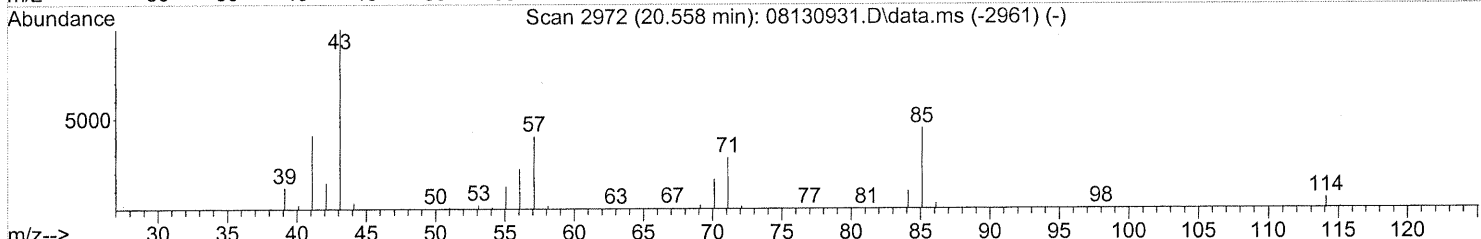
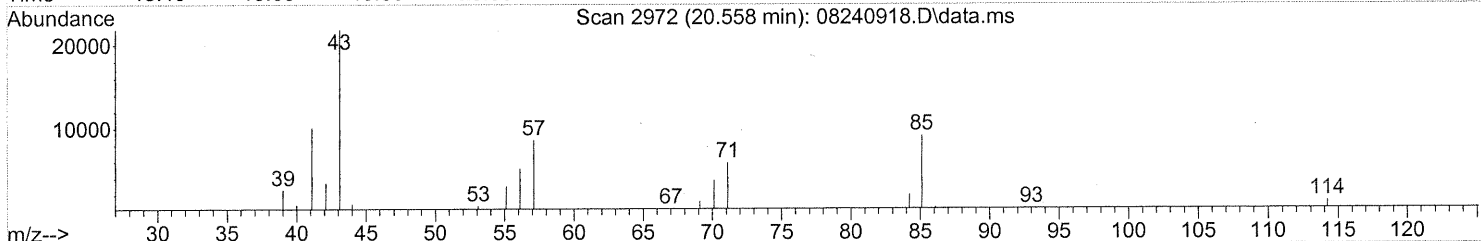
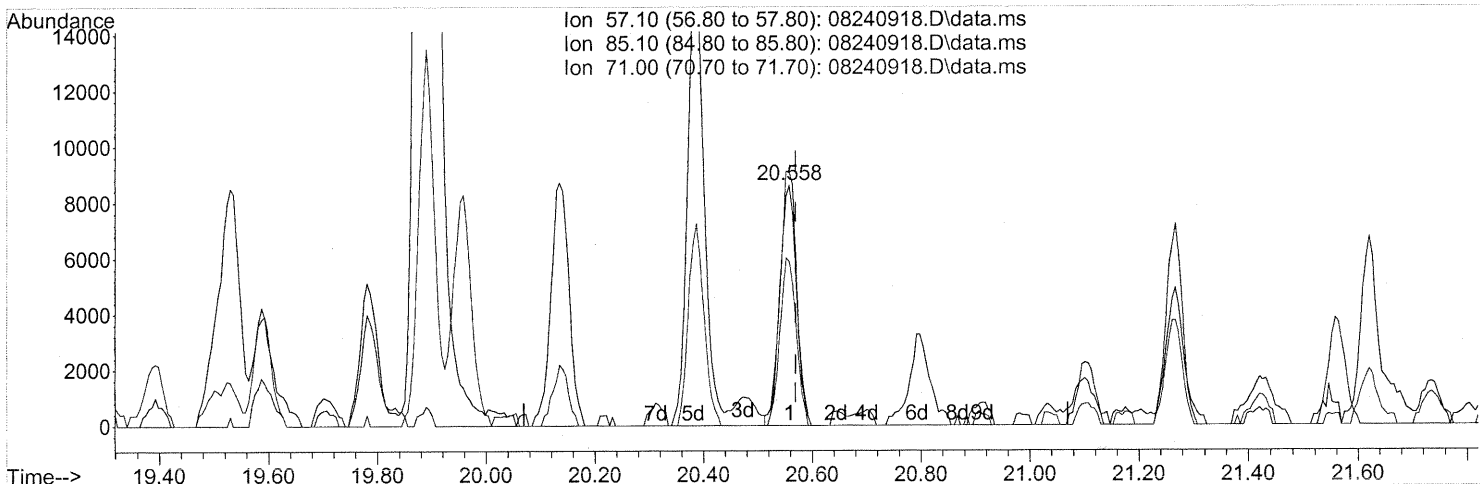
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 15.61ng
 response 815017

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	42.59
73.00	16.90	15.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

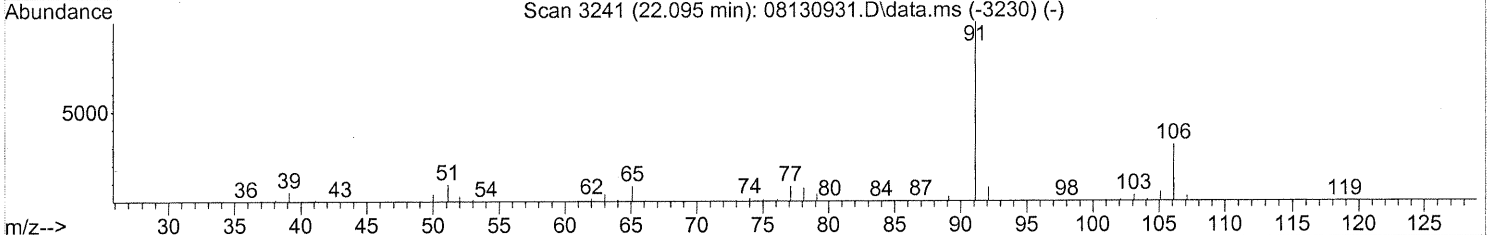
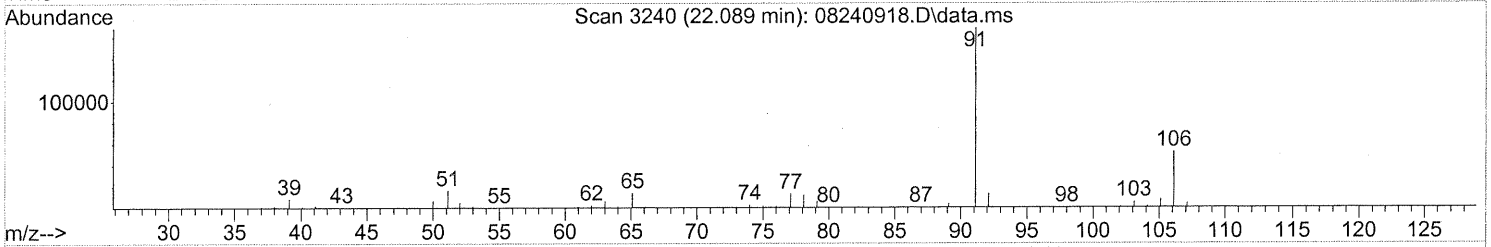
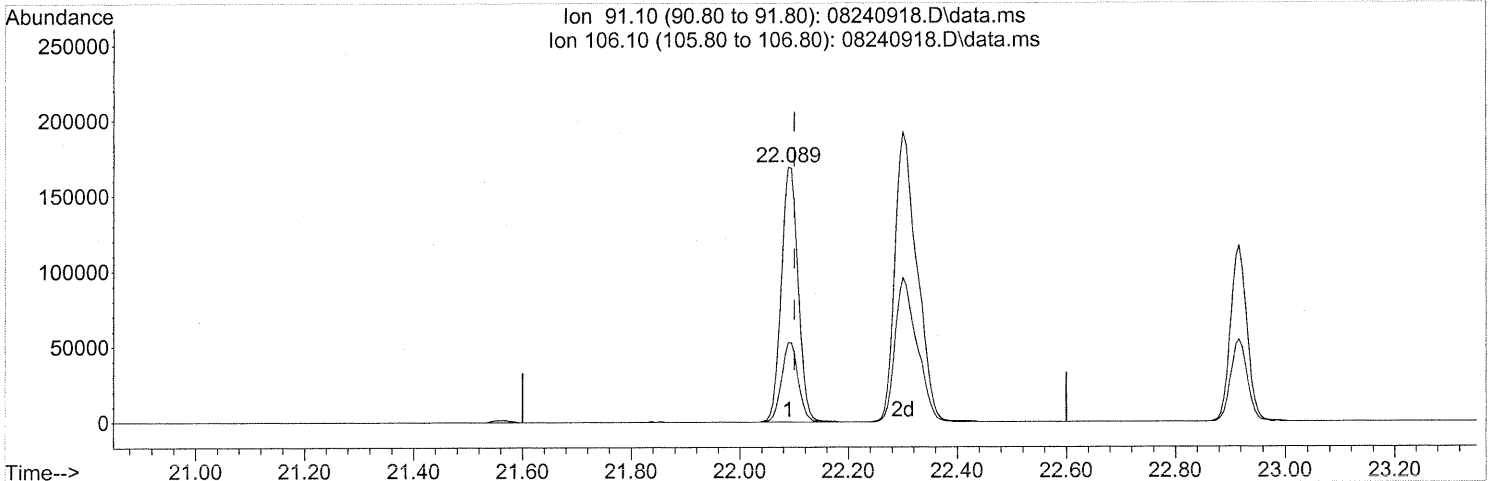
(63) n-Octane (T)
 20.558min (-0.011) 0.89ng
 response 18269

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	104.27
71.00	75.10	67.50
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(66) Ethylbenzene (T)

22.089min (-0.011) 3.63ng

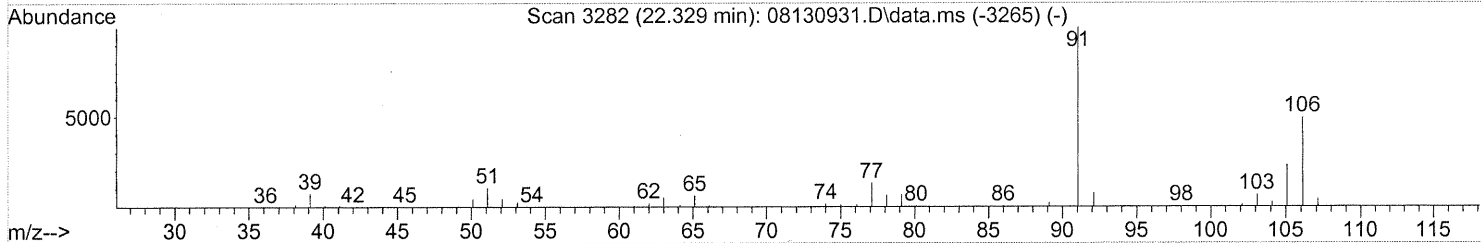
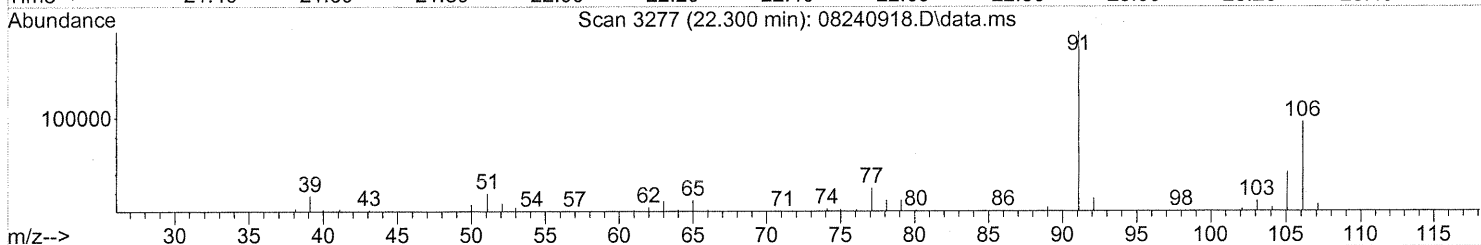
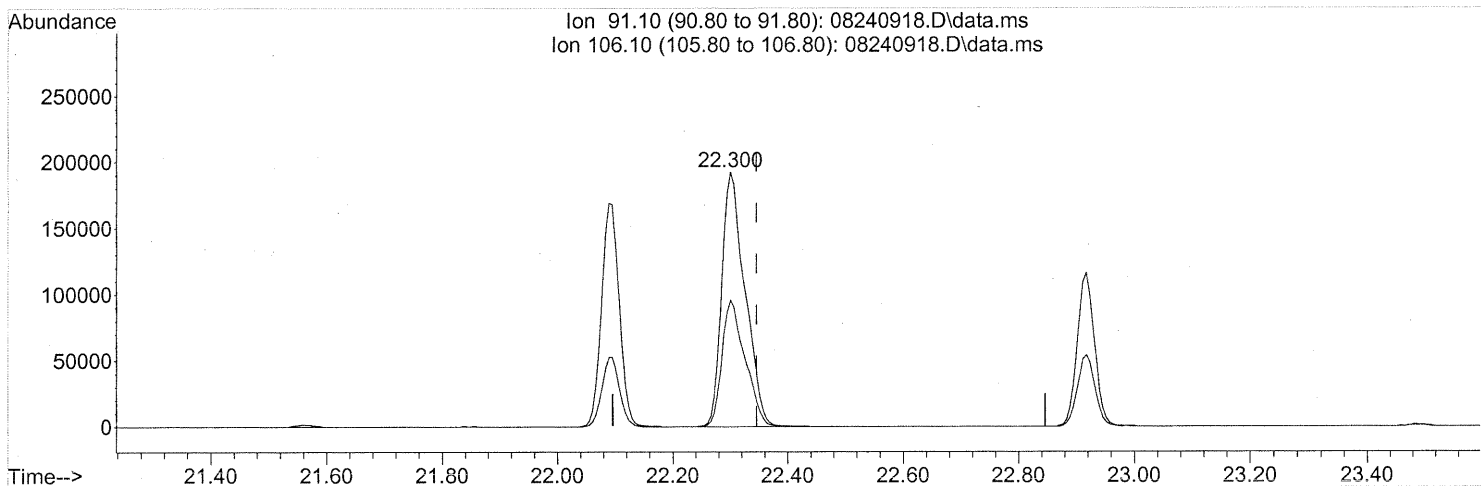
response 361347

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

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

22.300min (-0.046) 6.88ng

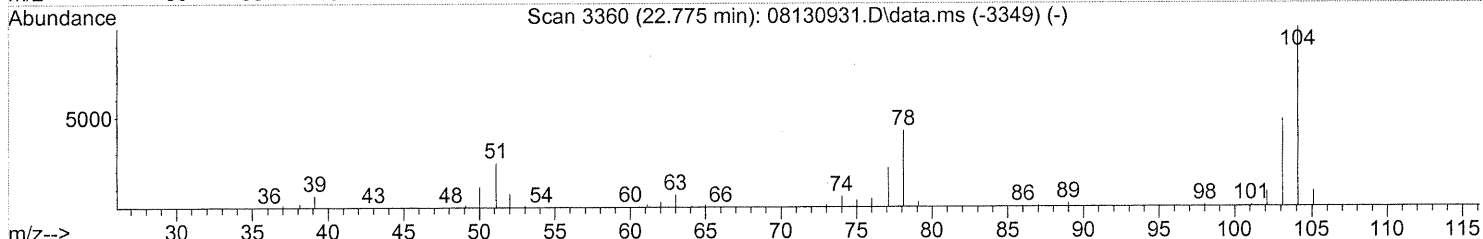
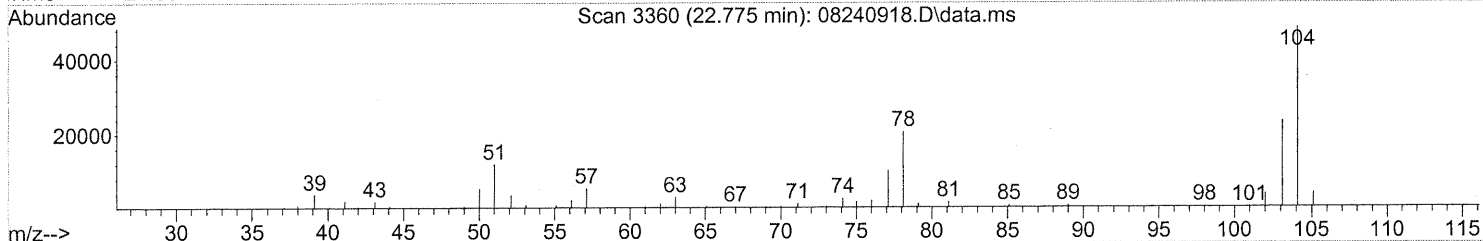
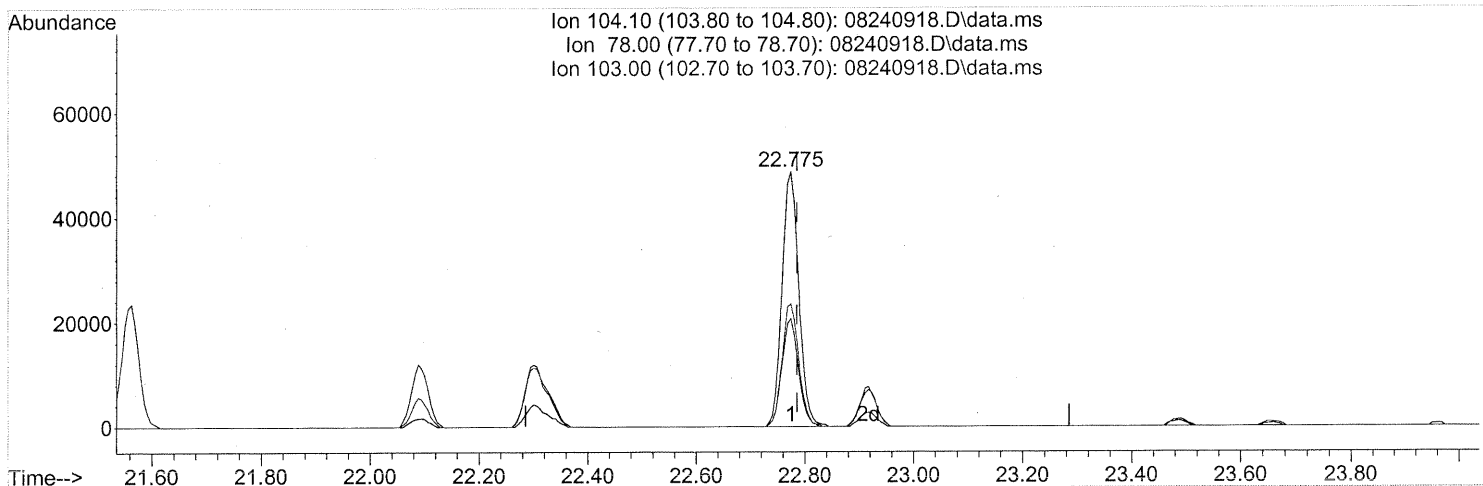
response 542515

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240918.D
Acq On : 24 Aug 2009 20:29
Operator : EM
Sample : P0902832-002 (1000ml)
Misc : Eng. H&E 101655
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08240918.D\data.ms

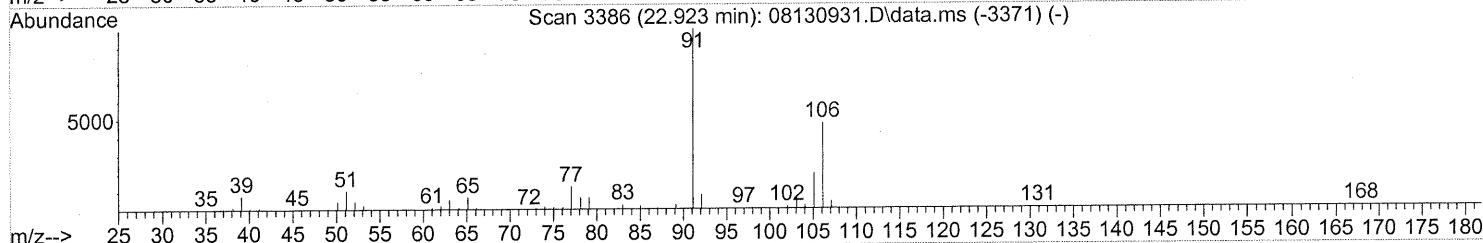
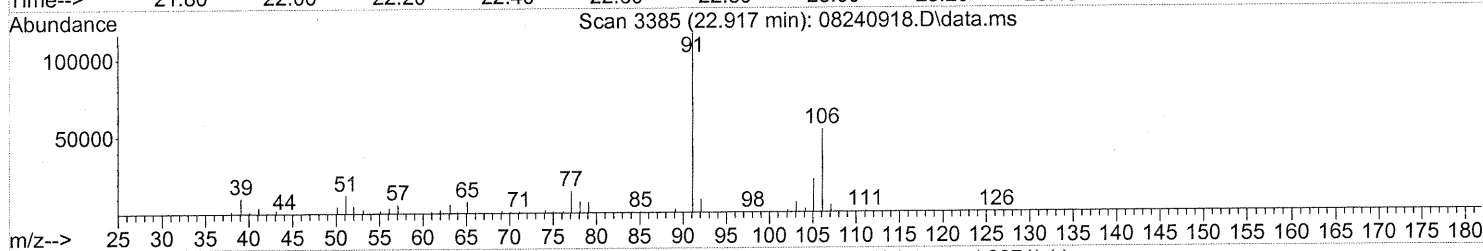
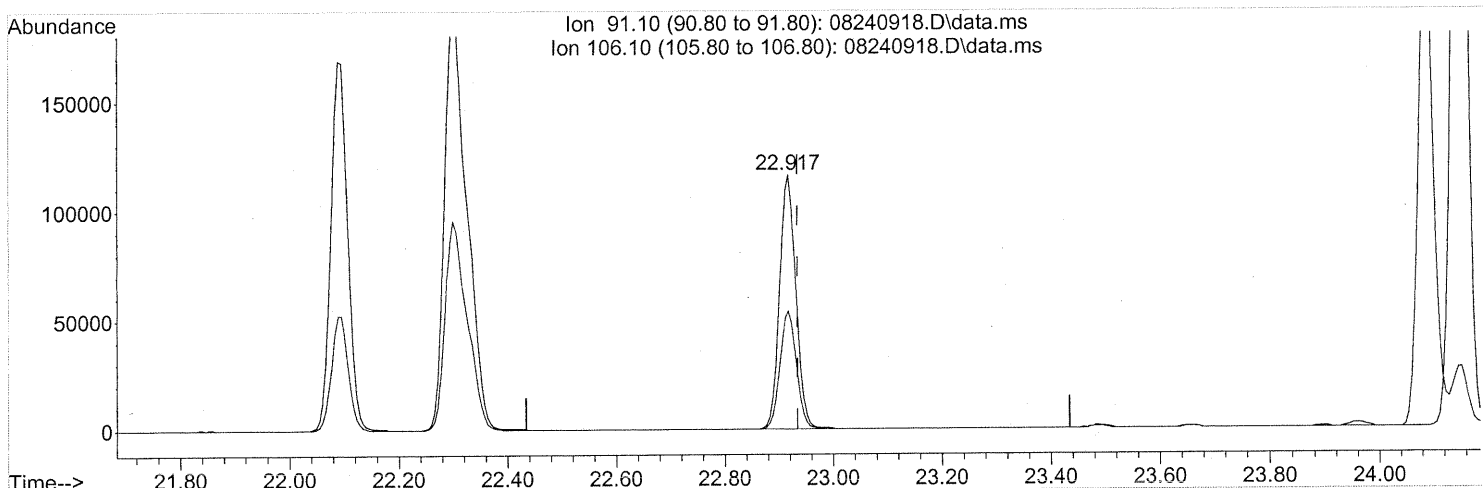
(69) Styrene (T)
22.775min (-0.011) 1.78ng
response 103759

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.83
103.00	48.70	48.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

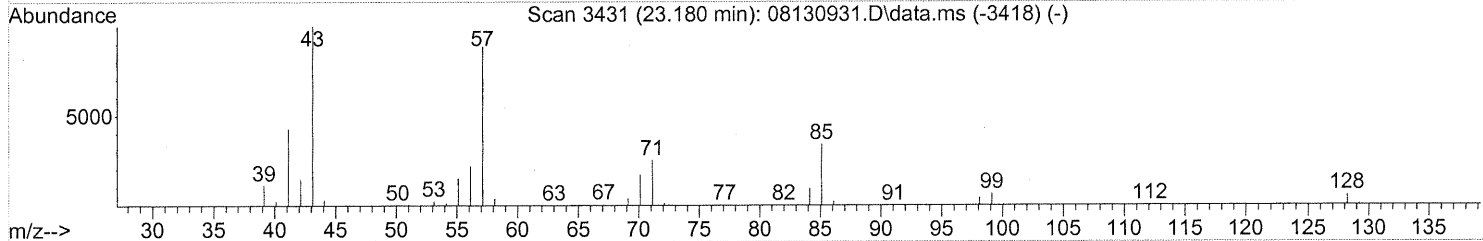
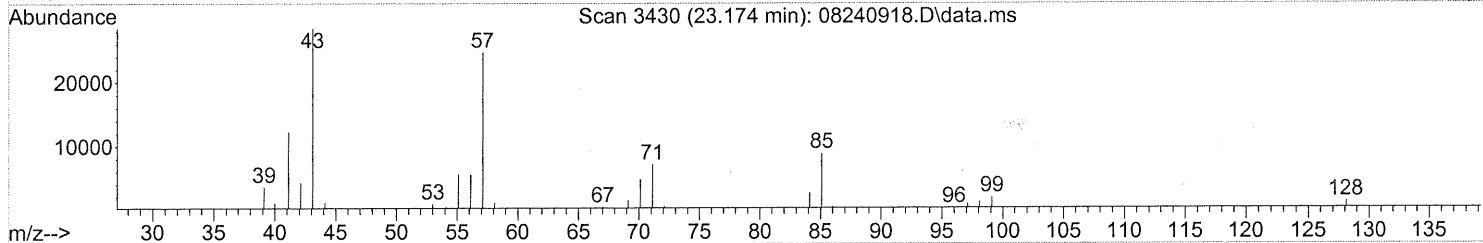
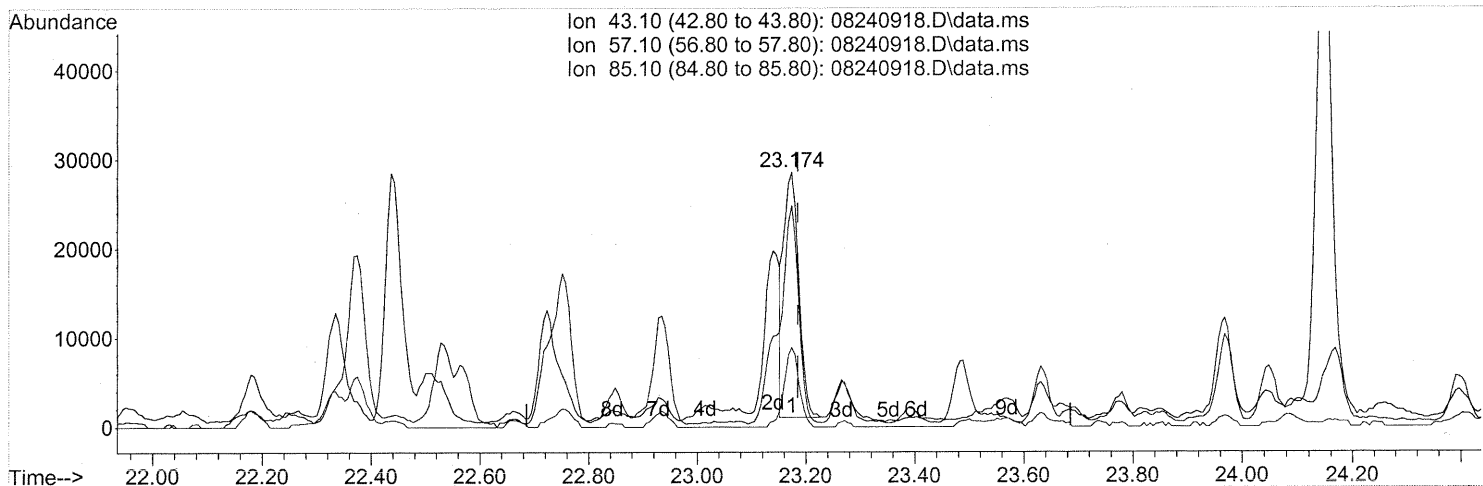
(70) o-Xylene (T)
 22.917min (-0.017) 3.05ng
 response 242052

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

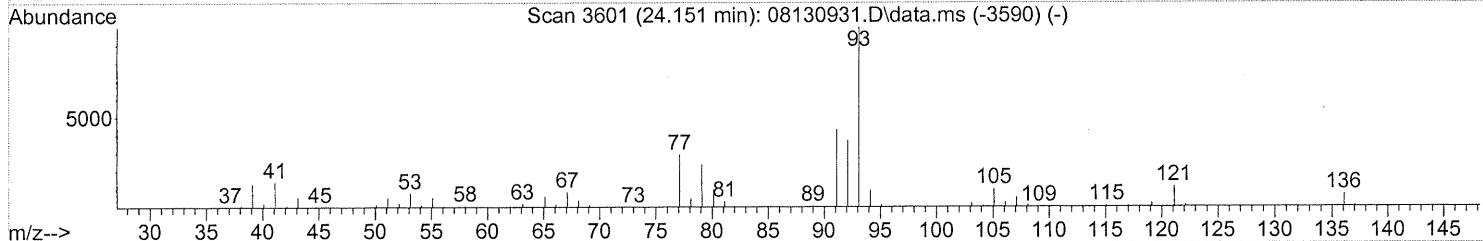
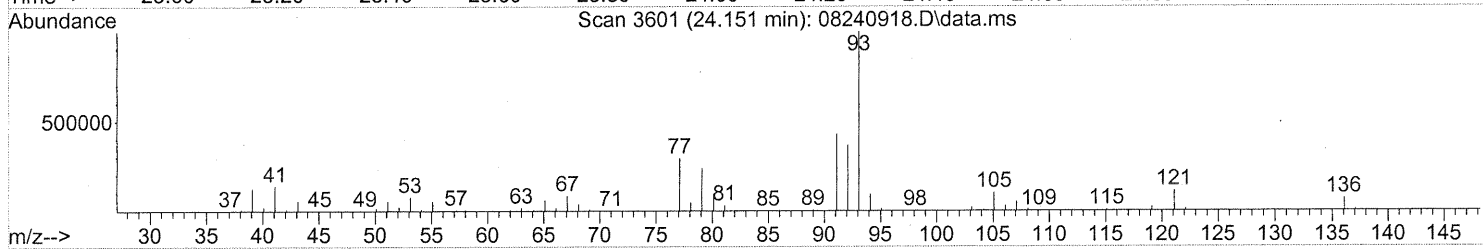
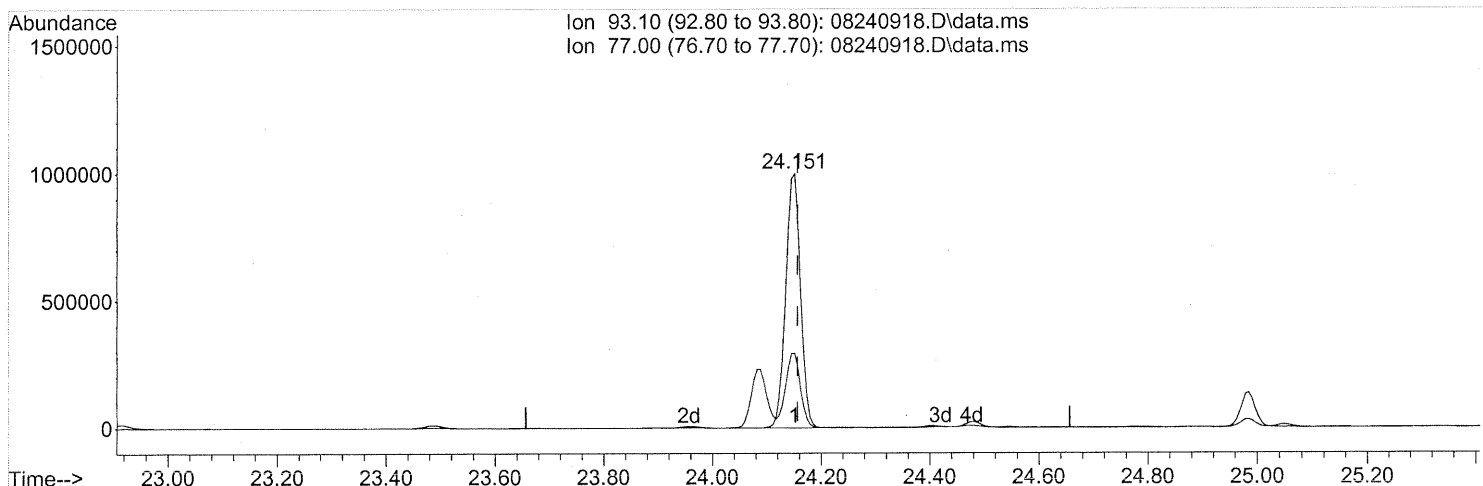
(71) n-Nonane (T)
 23.174min (-0.011) 1.12ng
 response 53389

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	118.60#
85.10	38.80	31.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

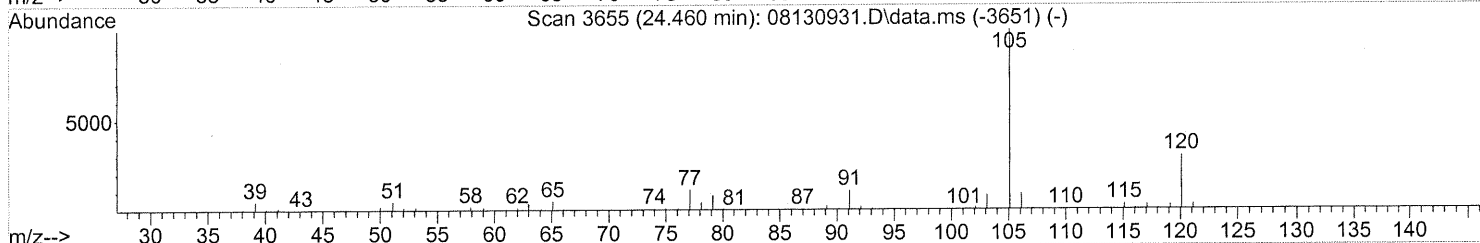
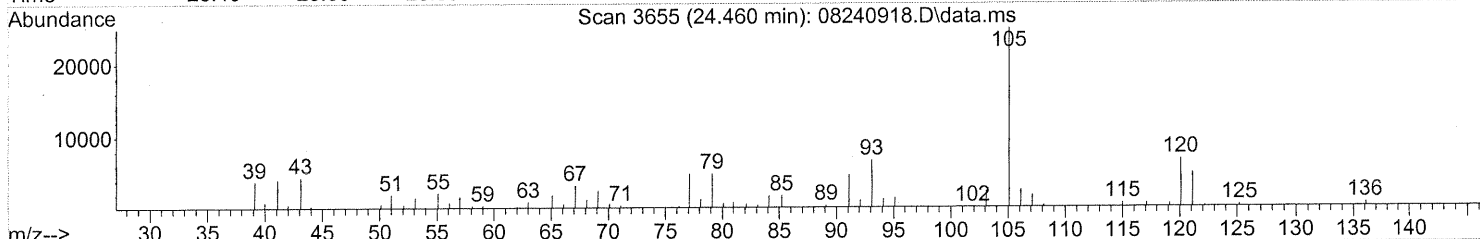
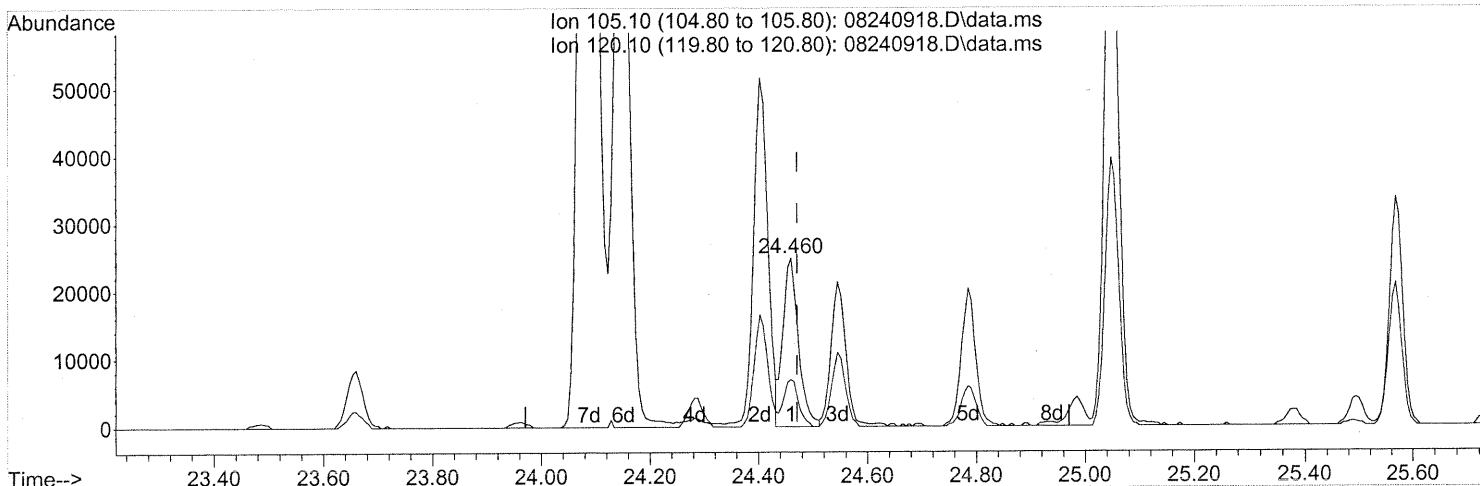
(75) alpha-Pinene (T)
 24.151min (-0.006) 36.99ng
 response 1876134

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

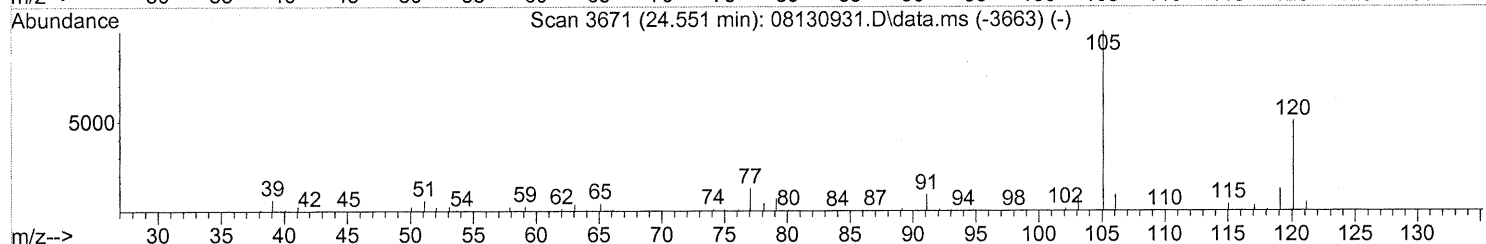
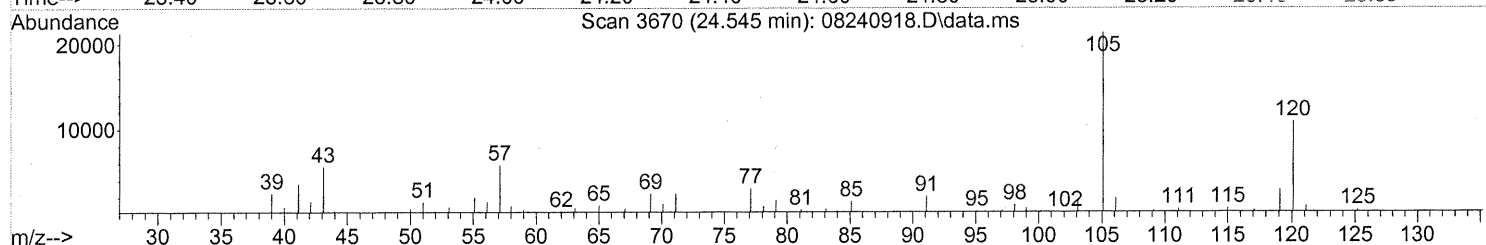
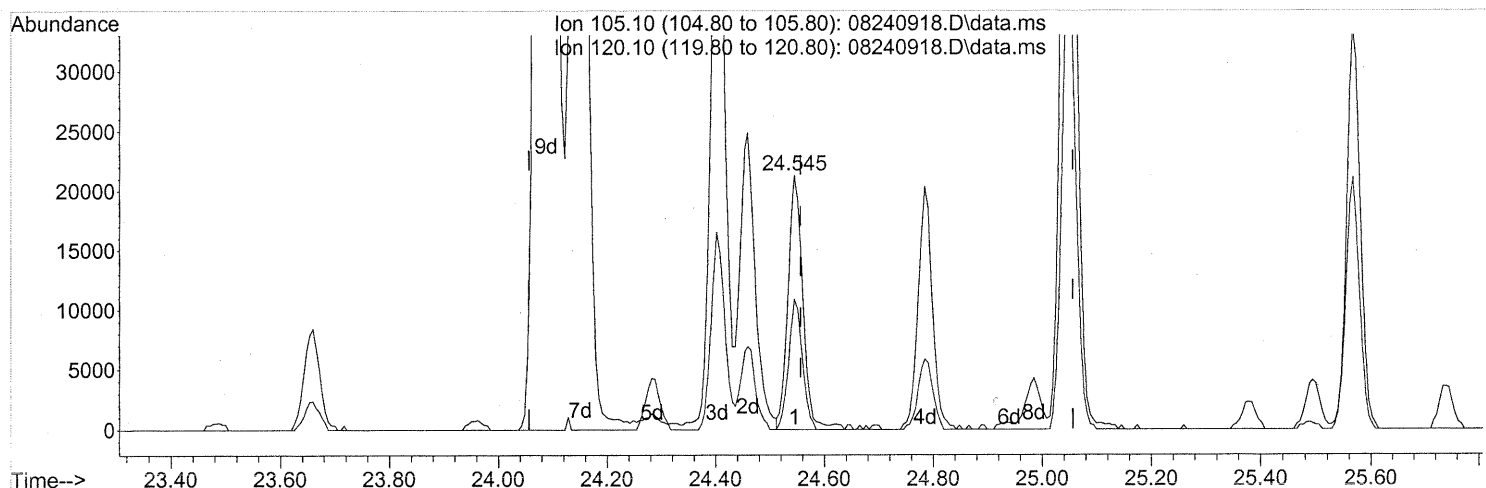
(78) 4-Ethyltoluene (T)
 24.460min (-0.011) 0.51ng
 response 49048

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	25.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

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

24.545min (-0.011) 0.50ng

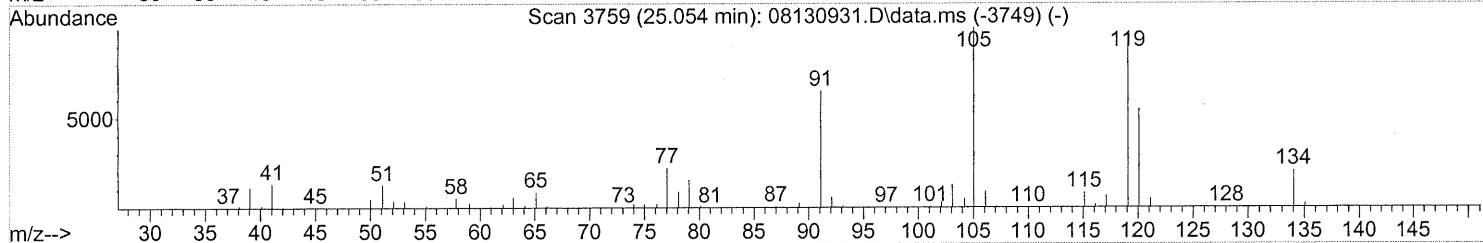
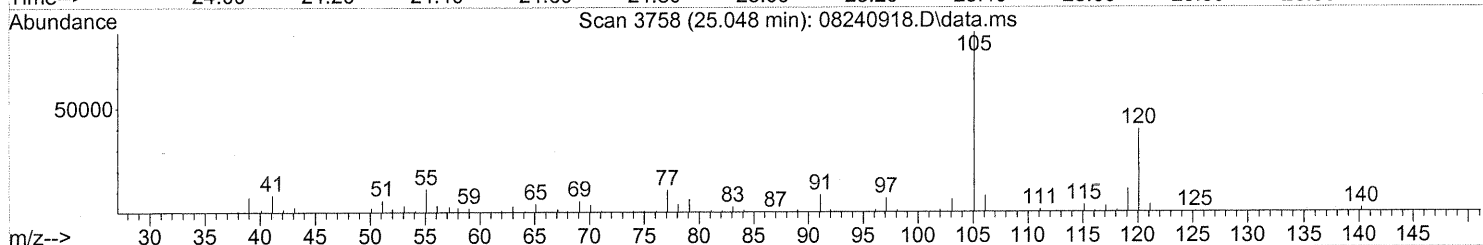
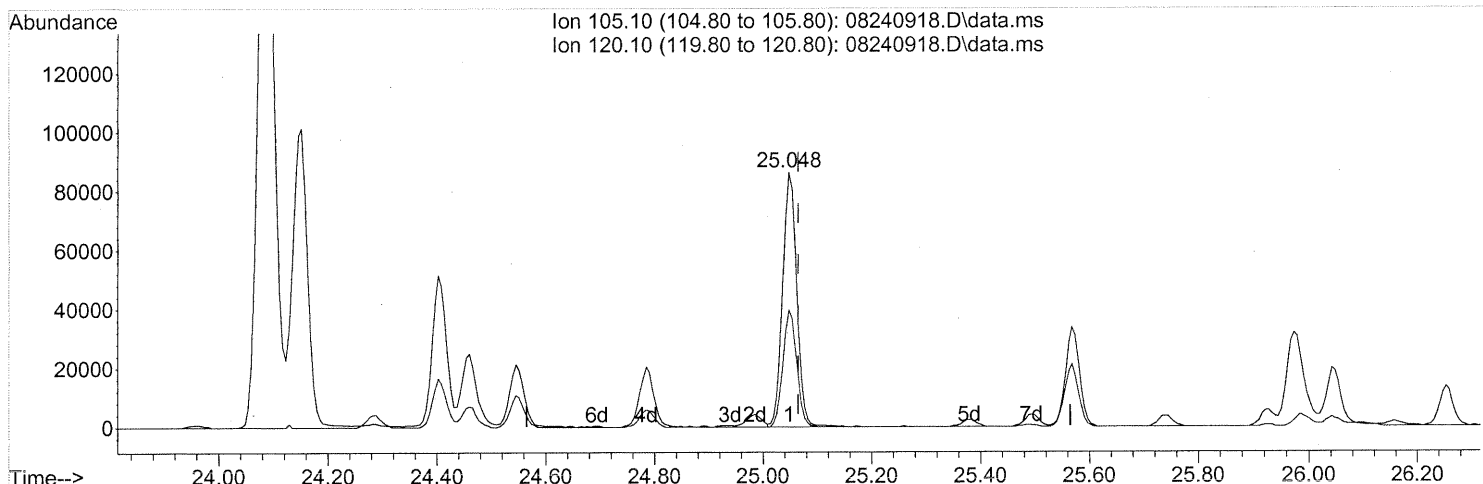
response 40296

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	47.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

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

25.048min (-0.017) 1.83ng

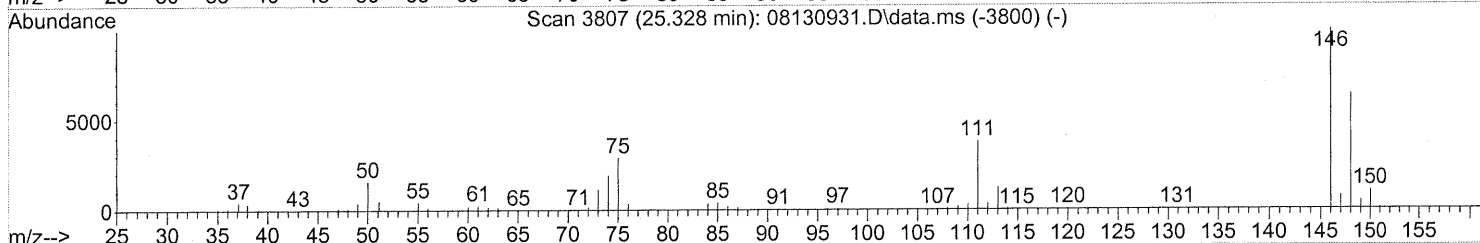
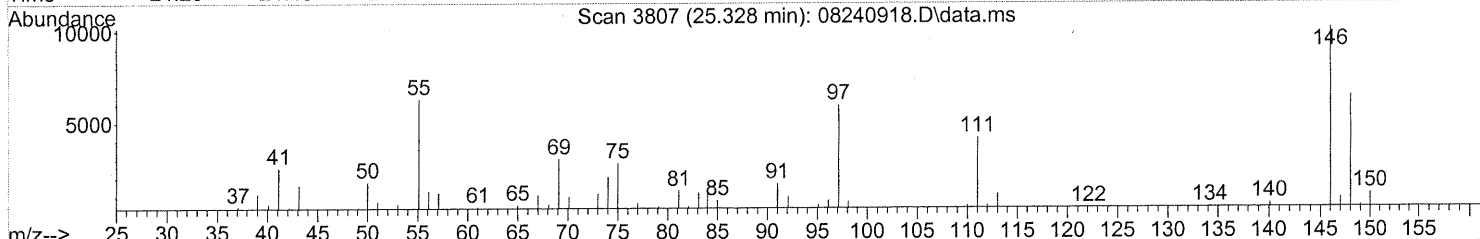
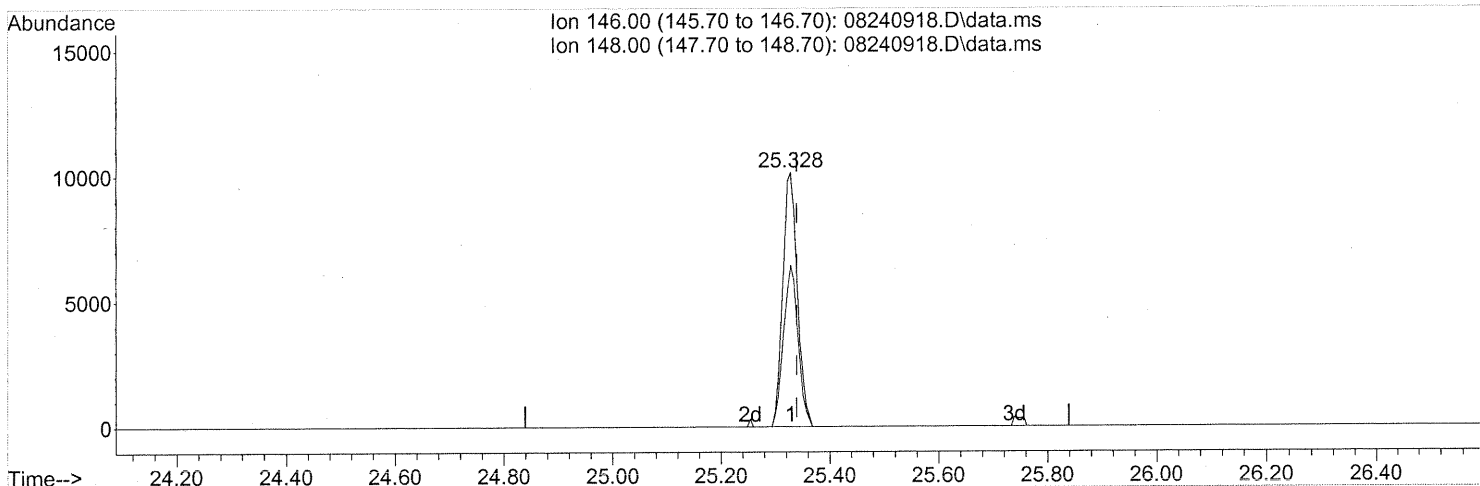
response 155290

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	44.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.41ng

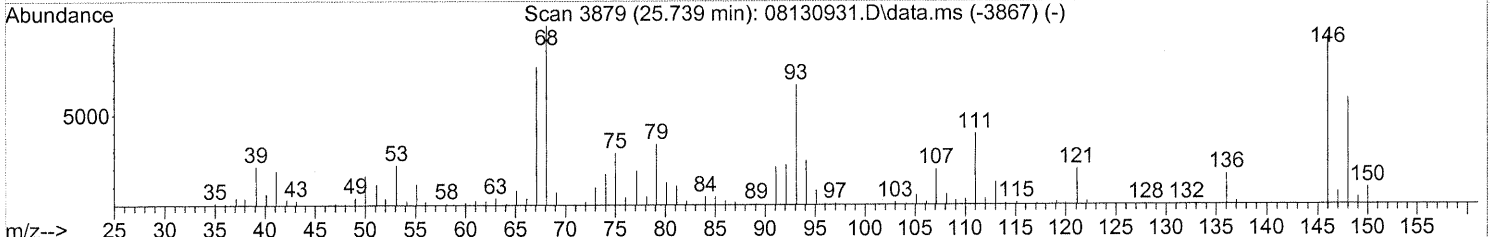
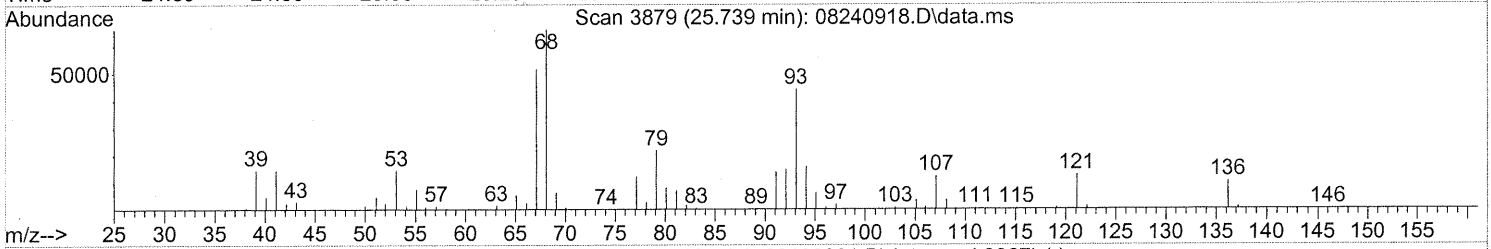
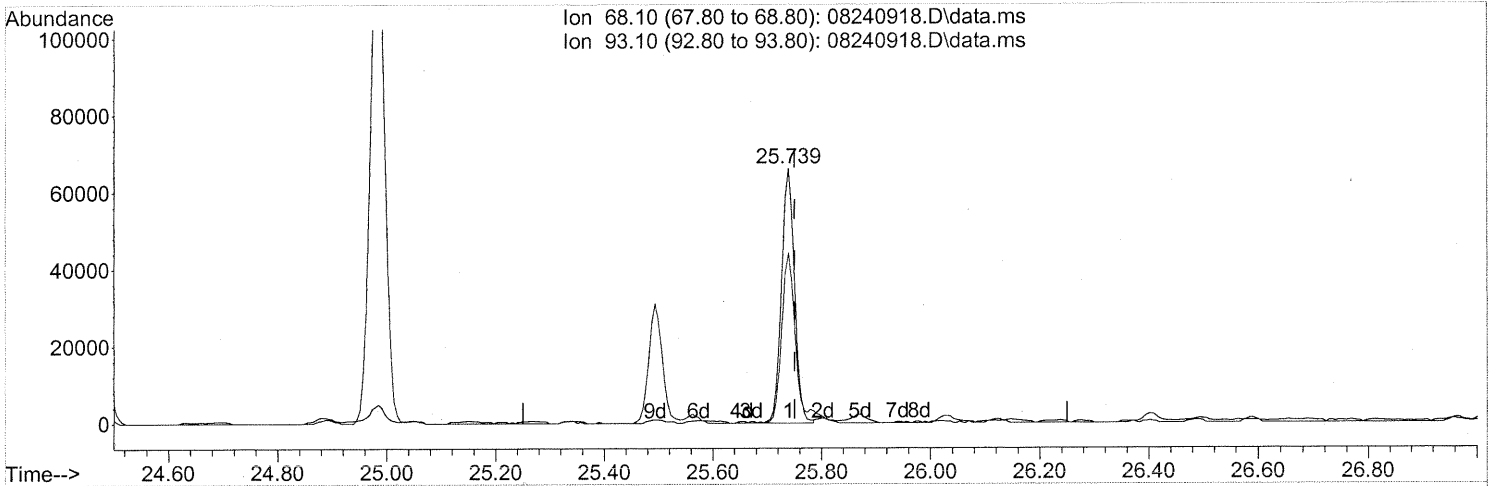
response 18963

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	63.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

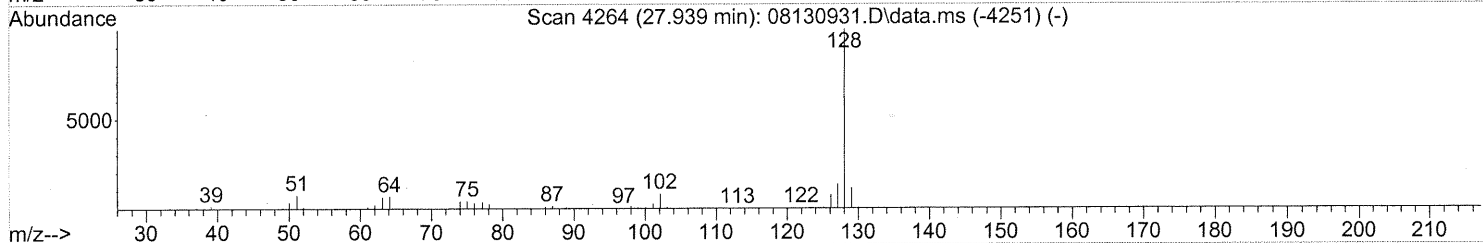
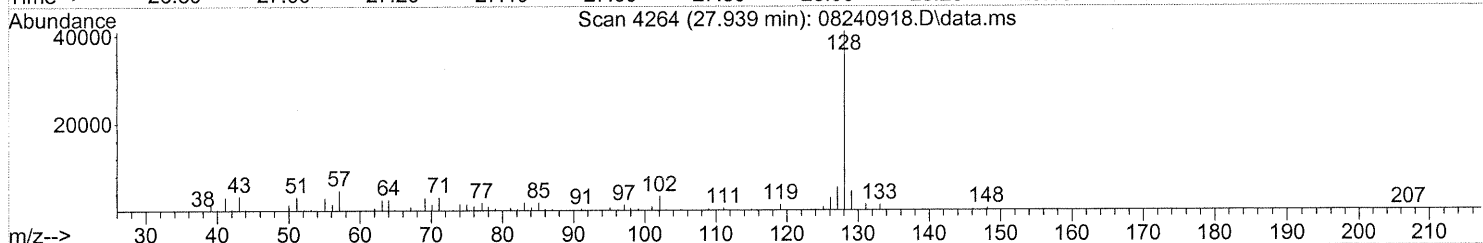
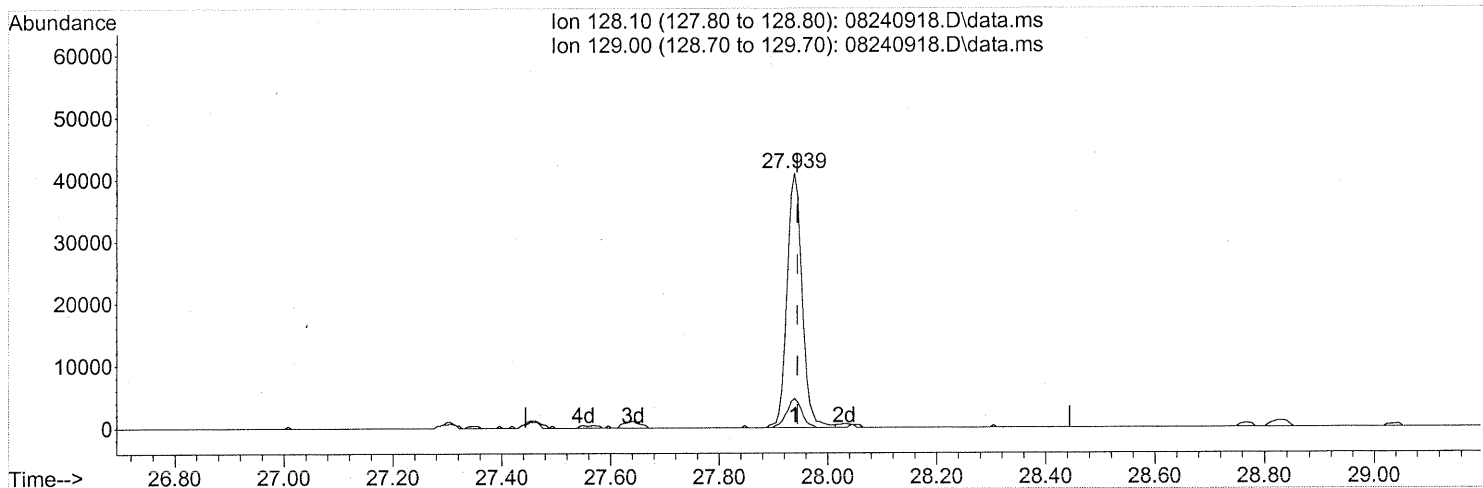
(91) d-Limonene (T)
 25.739min (-0.011) 3.16ng
 response 109825

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	72.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240918.D
 Acq On : 24 Aug 2009 20:29
 Operator : EM
 Sample : P0902832-002 (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:26:11 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240918.D\data.ms

(95) Naphthalene (T)

27.939min (-0.006) 0.69ng

response 78281

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	11.24
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101653

Client Project ID: 16512

CAS Project ID: P0902832

CAS Sample ID: P0902832-003

Test Code: EPA TO-15

Date Collected: 8/13/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 8/18/09

Analyst: Elsa Moctezuma

Date Analyzed: 8/24/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01193

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.83	ND	0.48	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.83	0.48	0.17	
74-87-3	Chloromethane	0.77	0.17	0.37	0.080	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.83	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.17	ND	0.065	
106-99-0	1,3-Butadiene	ND	0.17	ND	0.075	
74-83-9	Bromomethane	ND	0.17	ND	0.043	
75-00-3	Chloroethane	ND	0.17	ND	0.063	
64-17-5	Ethanol	460	8.3	250	4.4	
75-05-8	Acetonitrile	180	0.83	110	0.49	E
107-02-8	Acrolein	5.0	0.83	2.2	0.36	
67-64-1	Acetone	76	8.3	32	3.5	
75-69-4	Trichlorofluoromethane	1.1	0.17	0.20	0.029	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.7	0.83	2.3	0.34	
107-13-1	Acrylonitrile	ND	0.83	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.17	ND	0.042	
75-09-2	Methylene Chloride	ND	0.83	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	ND	0.053	
76-13-1	Trichlorotrifluoroethane	0.53	0.17	0.069	0.022	
75-15-0	Carbon Disulfide	2.1	0.83	0.66	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	8.3	ND	2.3	
78-93-3	2-Butanone (MEK)	3.8	0.83	1.3	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.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: _____

8/31/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101653
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01193

CAS Project ID: P0902832
CAS Sample ID: P0902832-003

Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/24/09
Volume(s) Analyzed: 1.00 Liter(s)


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

Canister Dilution Factor: 1.65

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	5.1	1.7	1.4	0.46	
110-54-3	n-Hexane	3.1	0.83	0.88	0.23	
67-66-3	Chloroform	1.3	0.17	0.27	0.034	
109-99-9	Tetrahydrofuran (THF)	1.0	0.83	0.34	0.28	
107-06-2	1,2-Dichloroethane	0.29	0.17	0.072	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.17	ND	0.030	
71-43-2	Benzene	1.4	0.17	0.45	0.052	
56-23-5	Carbon Tetrachloride	0.50	0.17	0.080	0.026	
110-82-7	Cyclohexane	0.88	0.83	0.26	0.24	
78-87-5	1,2-Dichloropropane	ND	0.17	ND	0.036	
75-27-4	Bromodichloromethane	ND	0.17	ND	0.025	
79-01-6	Trichloroethene	ND	0.17	ND	0.031	
123-91-1	1,4-Dioxane	ND	0.83	ND	0.23	
80-62-6	Methyl Methacrylate	ND	1.7	ND	0.40	
142-82-5	n-Heptane	2.0	0.83	0.49	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	ND	0.18	
108-10-1	4-Methyl-2-pentanone	20	0.83	4.8	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.17	ND	0.030	
108-88-3	Toluene	15	0.83	3.9	0.22	
591-78-6	2-Hexanone	1.0	0.83	0.25	0.20	
124-48-1	Dibromochloromethane	ND	0.17	ND	0.019	
106-93-4	1,2-Dibromoethane	ND	0.17	ND	0.021	
123-86-4	n-Butyl Acetate	22	0.83	4.7	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: 8/10/09 **108**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101653
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P0902832-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01193

Date Collected: 8/13/09
 Date Received: 8/18/09
 Date Analyzed: 8/24/09
 Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.3	0.83	0.28	0.18	
127-18-4	Tetrachloroethene	ND	0.17	ND	0.024	
108-90-7	Chlorobenzene	ND	0.17	ND	0.036	
100-41-4	Ethylbenzene	5.6	0.83	1.3	0.19	
179601-23-1	m,p-Xylenes	10	0.83	2.3	0.19	
75-25-2	Bromoform	ND	0.83	ND	0.080	
100-42-5	Styrene	2.9	0.83	0.68	0.19	
95-47-6	o-Xylene	4.5	0.83	1.0	0.19	
111-84-2	n-Nonane	1.5	0.83	0.29	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	ND	0.024	
98-82-8	Cumene	ND	0.83	ND	0.17	
80-56-8	alpha-Pinene	62	0.83	11	0.15	
103-65-1	n-Propylbenzene	ND	0.83	ND	0.17	
622-96-8	4-Ethyltoluene	ND	0.83	ND	0.17	
108-67-8	1,3,5-Trimethylbenzene	ND	0.83	ND	0.17	
95-63-6	1,2,4-Trimethylbenzene	2.7	0.83	0.54	0.17	
100-44-7	Benzyl Chloride	ND	0.17	ND	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.17	ND	0.027	
106-46-7	1,4-Dichlorobenzene	0.66	0.17	0.11	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.17	ND	0.027	
5989-27-5	d-Limonene	9.4	0.83	1.7	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.83	ND	0.085	
120-82-1	1,2,4-Trichlorobenzene	ND	0.83	ND	0.11	
91-20-3	Naphthalene	1.1	0.83	0.20	0.16	
87-68-3	Hexachlorobutadiene	ND	0.83	ND	0.077	

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

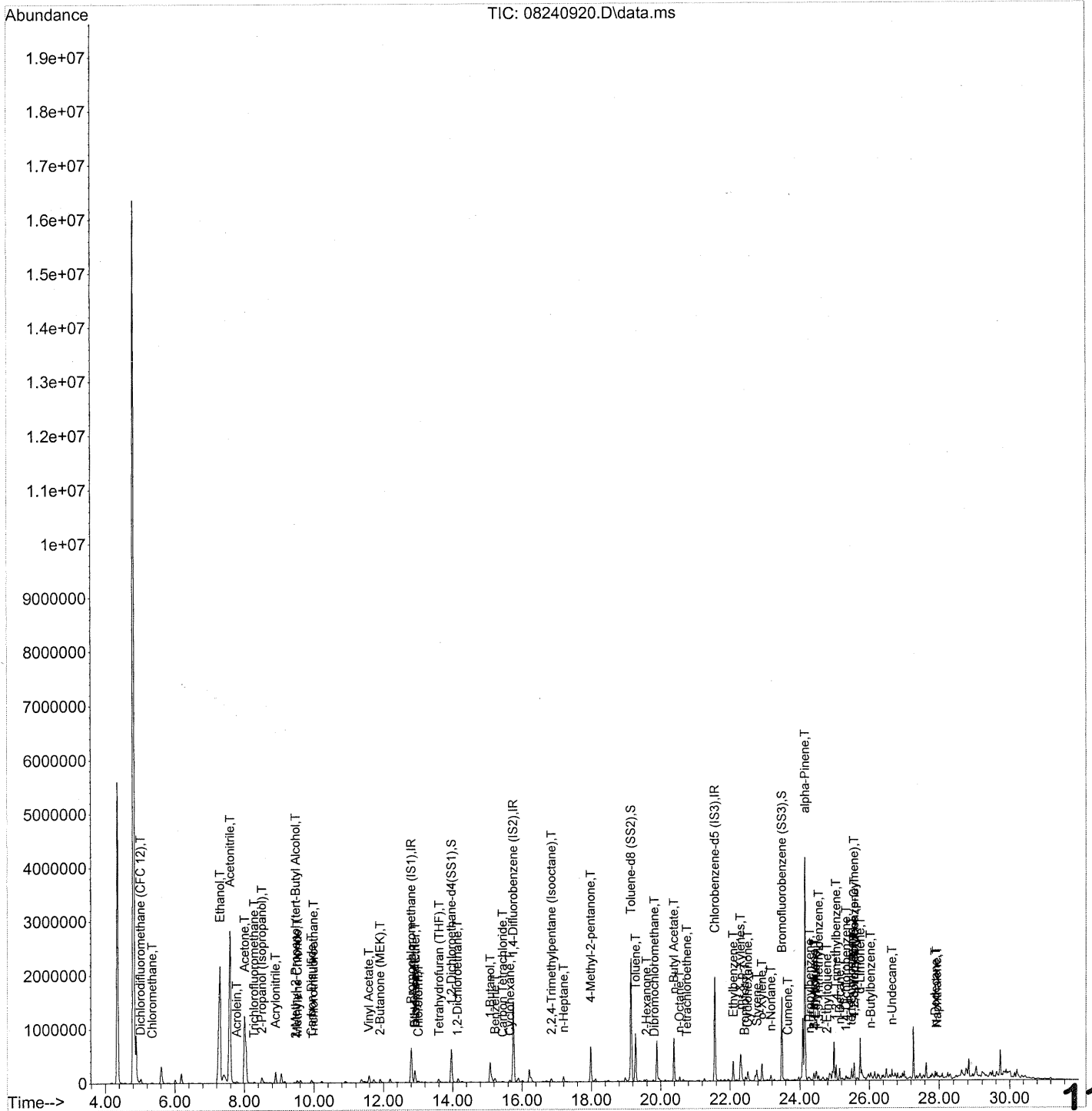
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:  Date: 8/31/09 **109**

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:50:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\24\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	345690	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1755474	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	829935	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	607938	24.872	ng	-0.02	✓
Spiked Amount	25.000		Recovery	=	99.48%		
57) Toluene-d8 (SS2)	19.15	98	2009389	25.468	ng	-0.01	✓
Spiked Amount	25.000		Recovery	=	101.88%		
73) Bromofluorobenzene (SS3)	23.49	174	558970	25.016	ng	0.00	✓
Spiked Amount	25.000		Recovery	=	100.08%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	5.01	85	62400	1.442	ng	99
4) Chloromethane	5.35	50	18927	0.469	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1022	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	658	N.D.		
8) Bromomethane	6.59	94	590	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.30	45	5333201m	280.375	ng	
11) Acetonitrile	7.59	41	5143898	110.808	ng	99
12) Acrolein	7.79	56	37268	3.004	ng	99
13) Acetone	8.01	58	887040	45.826	ng	96
14) Trichlorofluoromethane	8.28	101	25092	0.678	ng	97
15) 2-Propanol (Isopropanol)	8.51	45	184099m	3.473	ng	
16) Acrylonitrile	8.90	53	3440	0.122	ng	# 27
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	19998	0.372	ng	# 64
19) Methylene Chloride	9.53	84	5252	0.217	ng	79
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.99	151	5285	0.319	ng	99
22) Carbon Disulfide	9.93	76	106544	1.250	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	11.42	73	996	N.D.		
26) Vinyl Acetate	11.58	86	8142	1.942	ng	# 1
27) 2-Butanone (MEK)	11.91	72	31303	2.320	ng	# 90
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.93	87	1048	0.055	ng	# 1
30) Ethyl Acetate	12.91	61	27047	3.091	ng	98
31) n-Hexane	12.92	57	80548	1.888	ng	911

em 8/28/09

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
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 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:50:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	28956	0.811 ng		99
34) Tetrahydrofuran (THF)	13.62	72	8472	0.604 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.14	62	4795	0.176 ng		83
38) 1,1,1-Trichloroethane	14.53	97	806	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.09	56	379579	16.686 ng	NR	79
41) Benzene	15.23	78	82155	0.870 ng		98
42) Carbon Tetrachloride	15.45	117	7996	0.303 ng		97
43) Cyclohexane	15.65	84	19433	0.532 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	0.00	83	0	N.D. d		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.75	88	250	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	56630	0.521 ng		84
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	17.21	71	30735	1.223 ng		95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.98	58	243791	11.950 ng		92
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	19.28	91	848252	8.869 ng		100
59) 2-Hexanone	19.59	43	30751m	0.619 ng		
60) Dibromochloromethane	19.82	129	1357	0.066 ng	#	61
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	735665	13.564 ng		99
63) n-Octane	20.55	57	16868	0.791 ng		91
64) Tetrachloroethene	20.76	166	1305	0.055 ng	#	77
65) Chlorobenzene	21.66	112	1394	N.D.		
66) Ethylbenzene	22.09	91	347759	3.368 ng		98
67) m- & p-Xylenes	22.30	91	495373	6.051 ng		100
68) Bromoform	22.42	173	1434	0.081 ng		79
69) Styrene	22.77	104	106160	1.754 ng		99
70) o-Xylene	22.92	91	224316	2.724 ng		97
71) n-Nonane	23.17	43	45349	0.914 ng		88
72) 1,1,2,2-Tetrachloroethane	22.92	83	596	N.D.		
74) Cumene	23.66	105	15688	0.147 ng		93
75) alpha-Pinene	24.15	93	1978065	37.546 ng		100
76) n-Propylbenzene	24.28	91	28141	0.213 ng	#	79
77) 3-Ethyltoluene	24.41	105	87586	0.876 ng		98
78) 4-Ethyltoluene	24.46	105	43928	0.437 ng		95
79) 1,3,5-Trimethylbenzene	24.55	105	36120	0.434 ng		9112

Data Path : J:\MS09\Data\2009_08\24\
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 Operator : EM
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 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:50:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

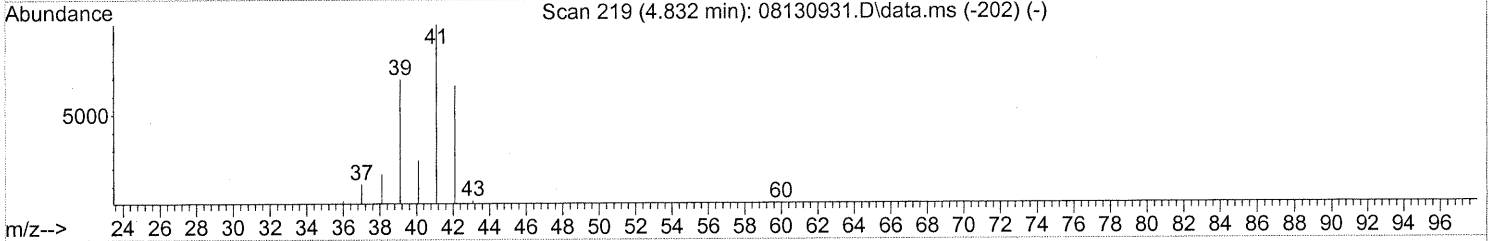
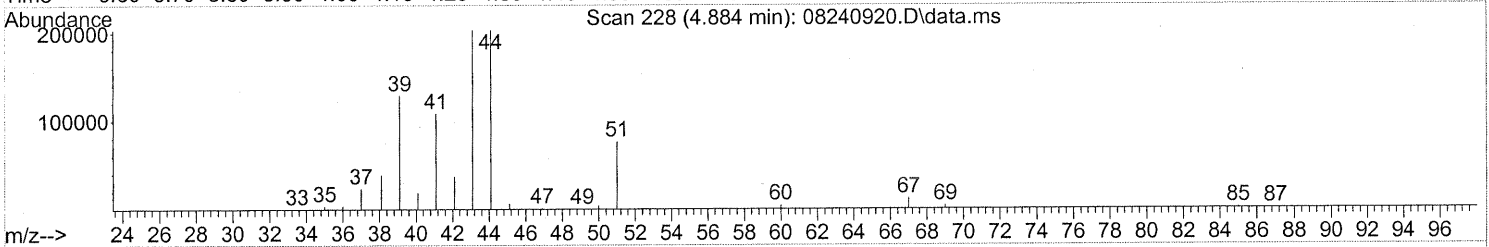
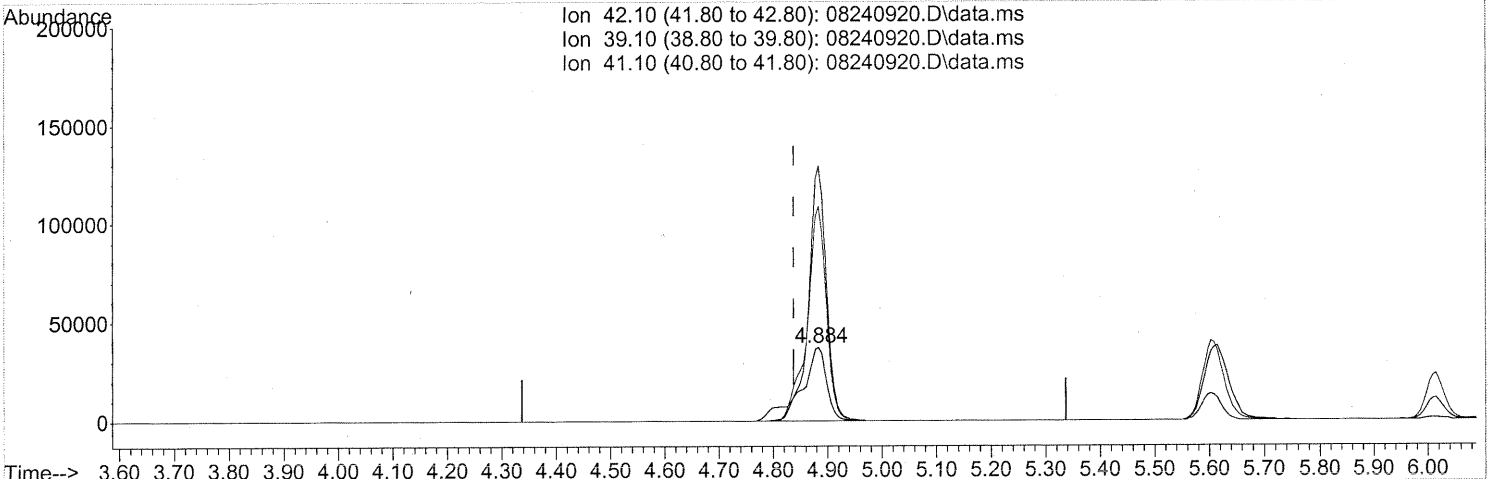
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1997	N.D.	
81) 2-Ethyltoluene	24.79	105	33492	0.324 ng	97
82) 1,2,4-Trimethylbenzene	25.05	105	143041	1.620 ng	88
83) n-Decane	25.15	57	78786	1.533 ng	99
84) Benzyl Chloride	0.00	91	0	N.D. d	
85) 1,3-Dichlorobenzene	0.00	146	0	N.D. d	
86) 1,4-Dichlorobenzene	25.33	146	19415	0.400 ng	100
87) sec-Butylbenzene	25.39	105	4130	N.D.	
88) 4-Isopropyltoluene (p-...	25.56	119	130732	1.173 ng	98
89) 1,2,3-Trimethylbenzene	25.57	105	56136	0.629 ng	87
90) 1,2-Dichlorobenzene	25.75	146	104	N.D.	
91) d-Limonene	25.74	68	206153	5.707 ng	95
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	
93) n-Undecane	26.65	57	60904	1.147 ng	90
94) 1,2,4-Trichlorobenzene	27.79	180	114	N.D.	
95) Naphthalene	27.94	128	76787	0.648 ng	99
96) n-Dodecane	27.89	57	48139	0.810 ng	93
97) Hexachlorobutadiene	0.00	225	0	N.D.	
98) Cyclohexanone	22.51	55	96802	3.214 ng	97
99) tert-Butylbenzene	25.49	119	9489	0.108 ng	94
100) n-Butylbenzene	26.04	91	33053	0.357 ng	# 22

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(2) Propene (T)

4.884min (+0.046) 4.02ng

response 121868

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	241.83#
41.10	152.70	218.42#
0.00	0.00	0.00

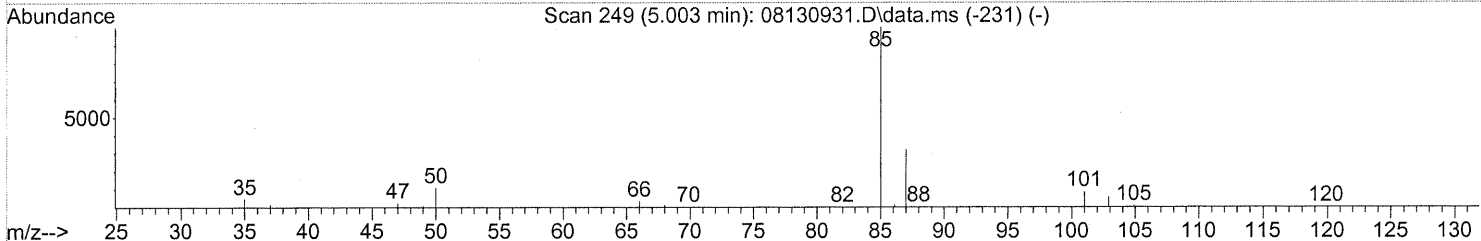
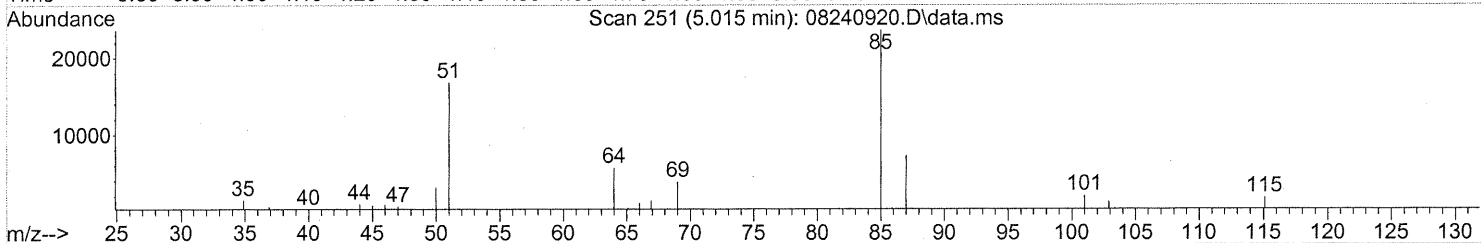
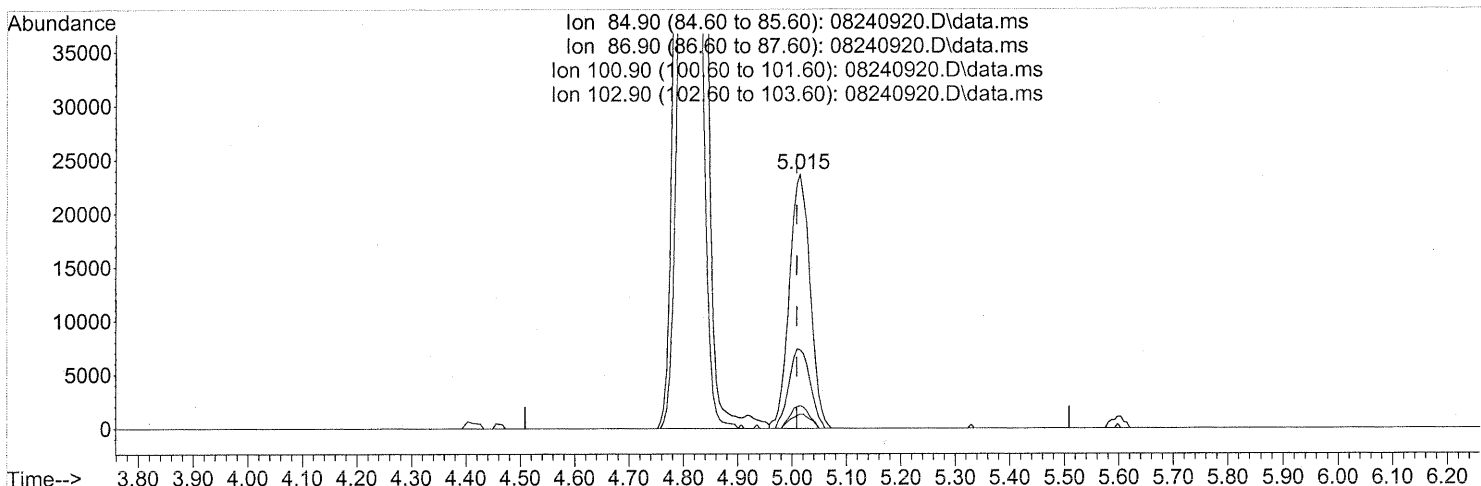
FP em 8/28/09

OR 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
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TIC: 08240920.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.015min (+0.006) 1.44ng

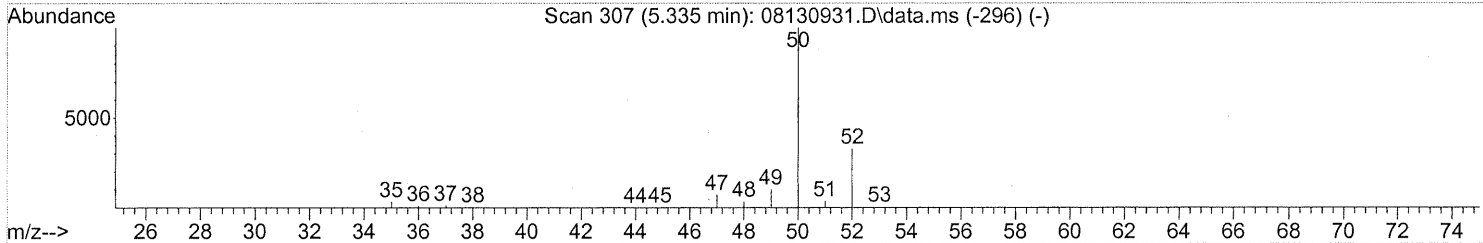
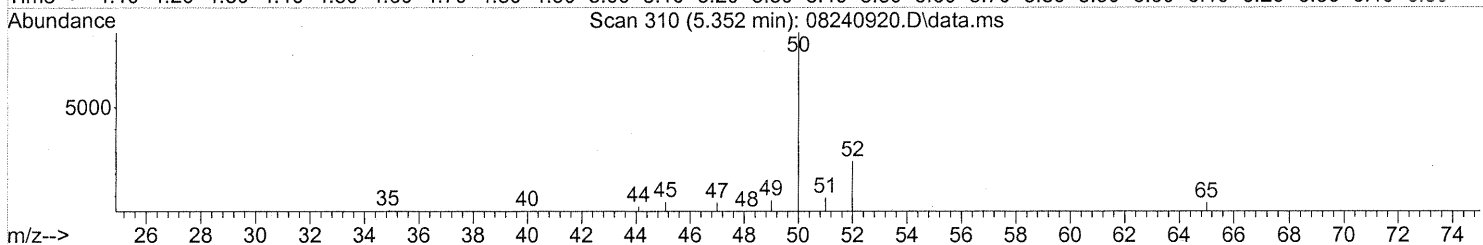
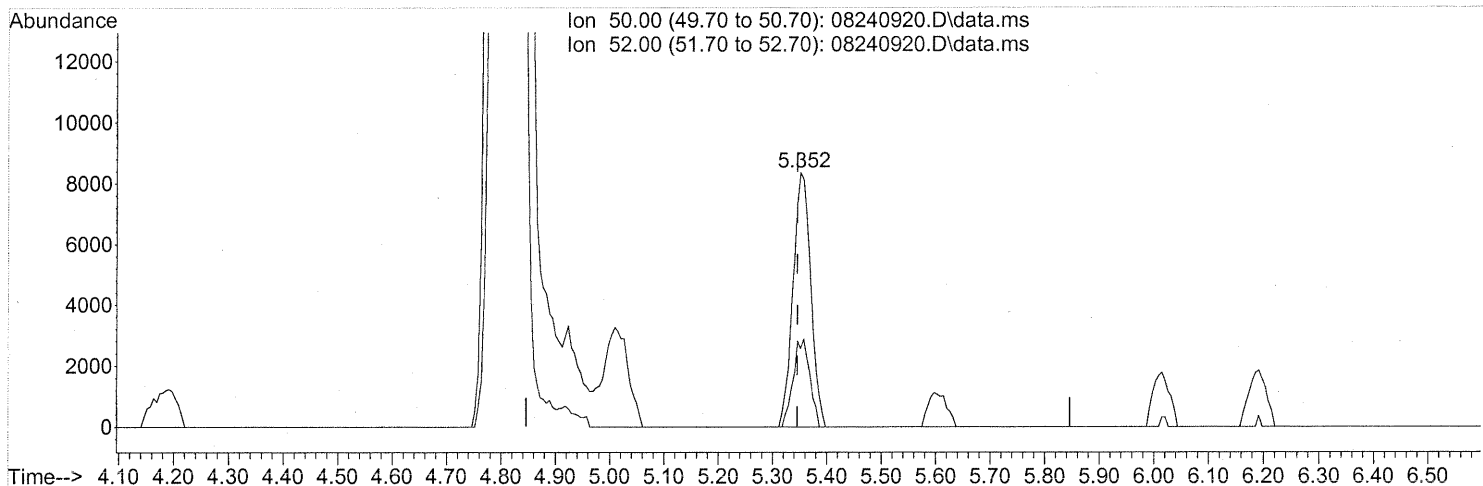
response 62400

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.78
100.90	9.10	7.94
102.90	5.50	5.17

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TIC: 08240920.D\data.ms

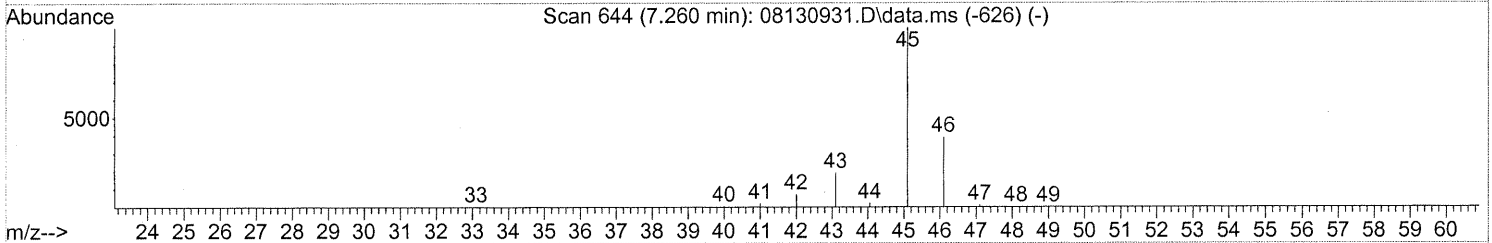
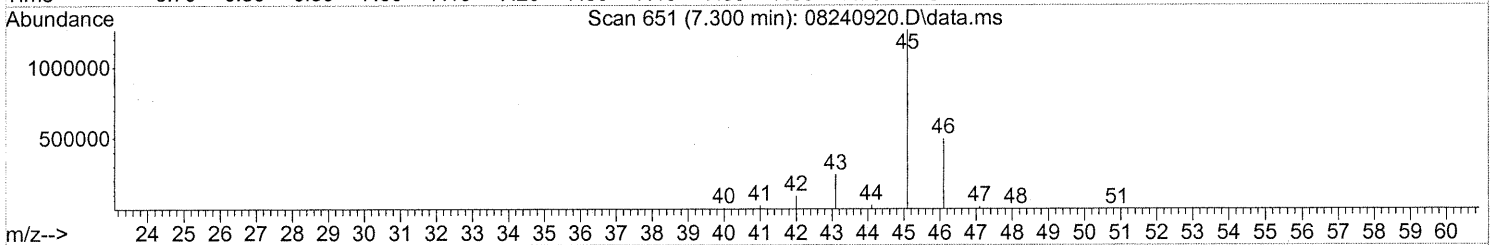
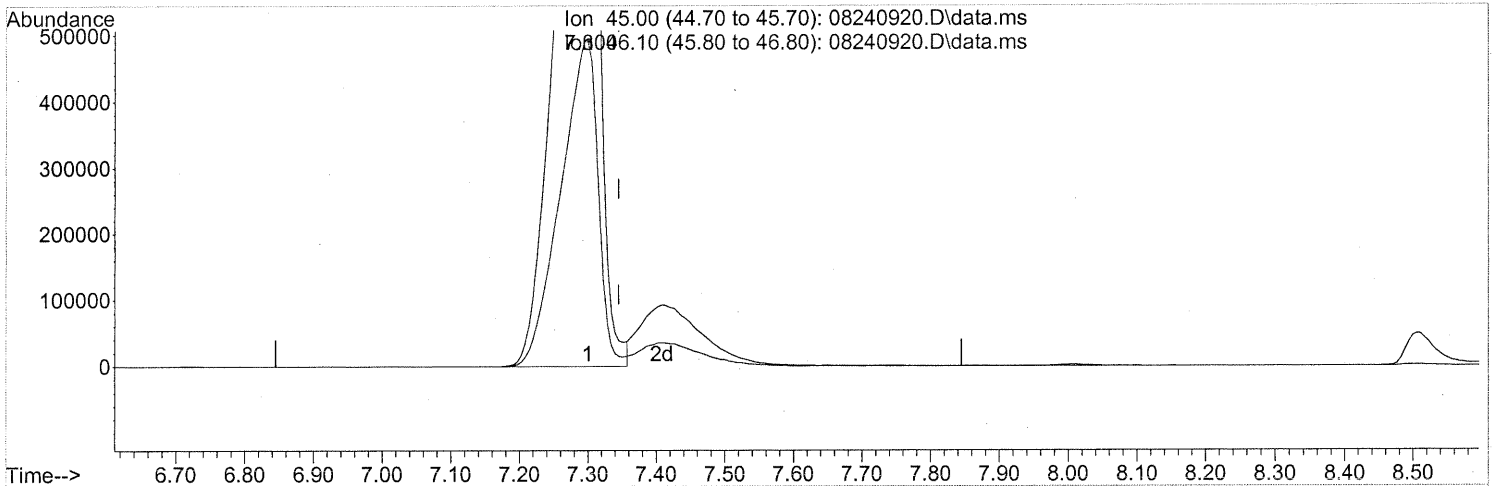
(4) Chloromethane (T)
 5.352min (+0.006) 0.47ng
 response 18927

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	32.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 08240920.D\data.ms

(10) Ethanol (T)
 7.300min (-0.046) 249.22ng
 response 4740682

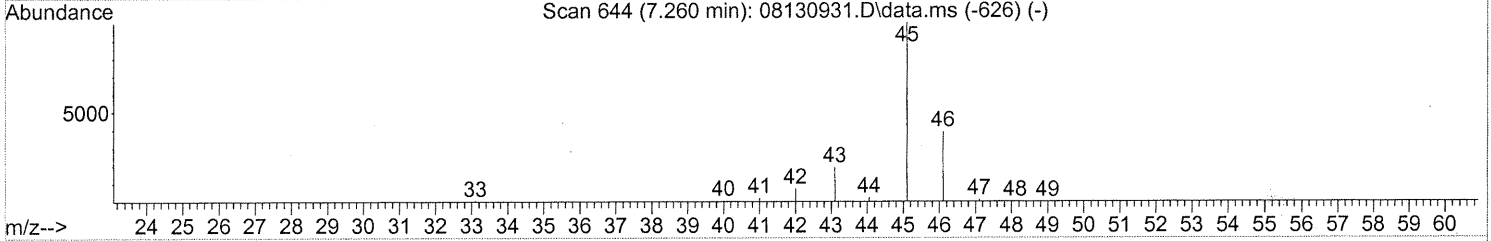
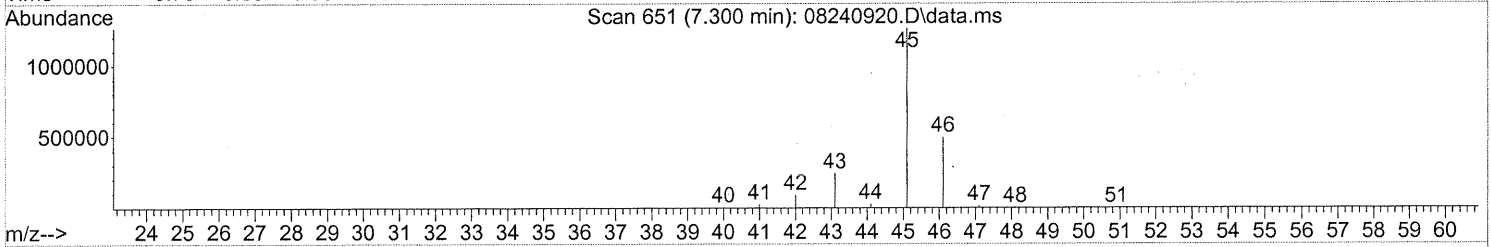
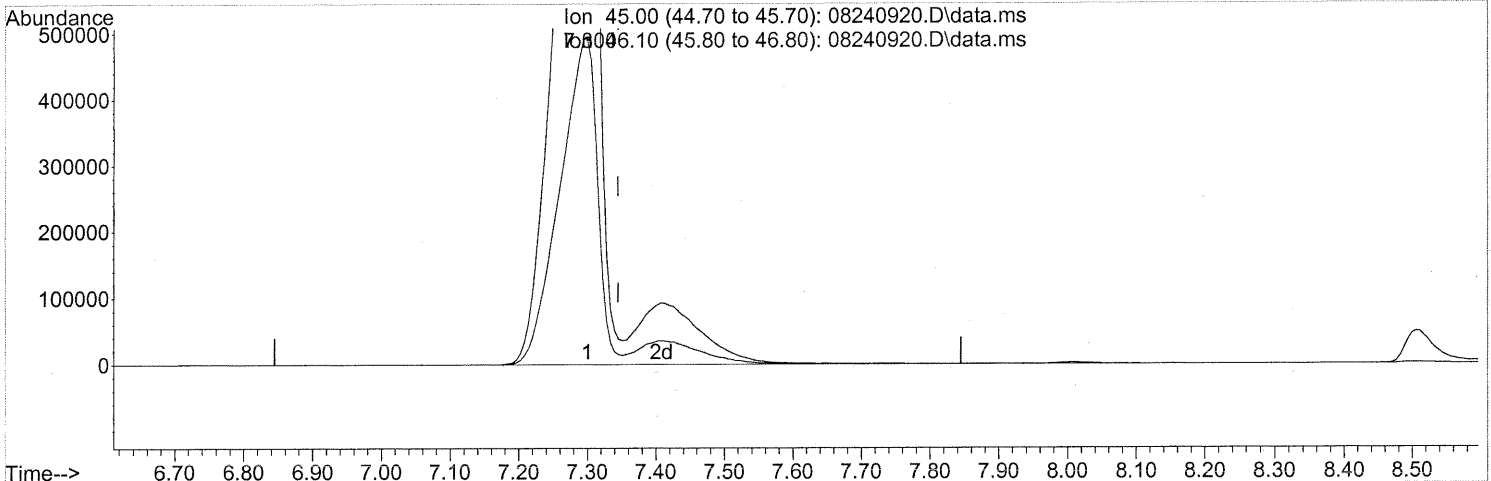
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.32
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

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 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(10) Ethanol (T)
 7.300min (-0.046) 280.37ng m
 response 5333201

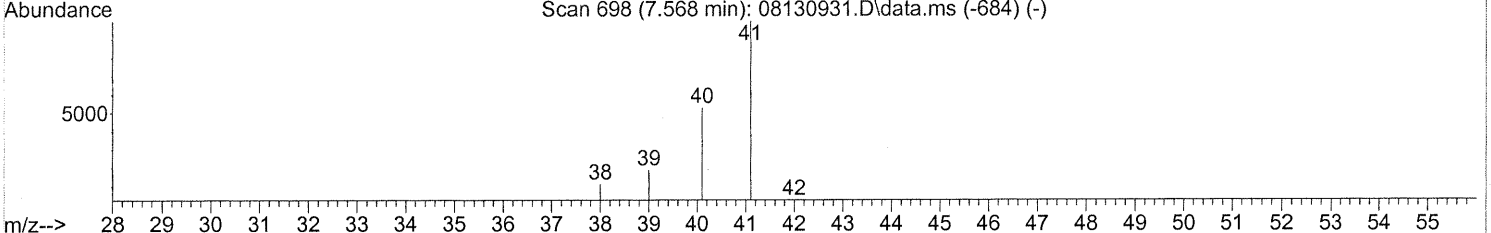
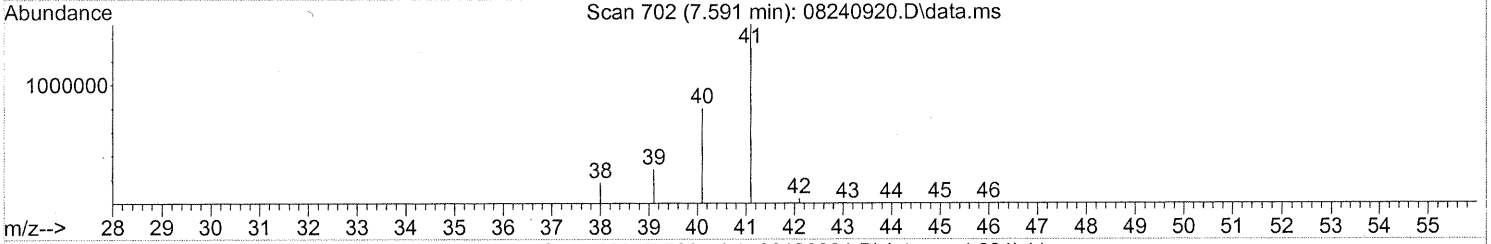
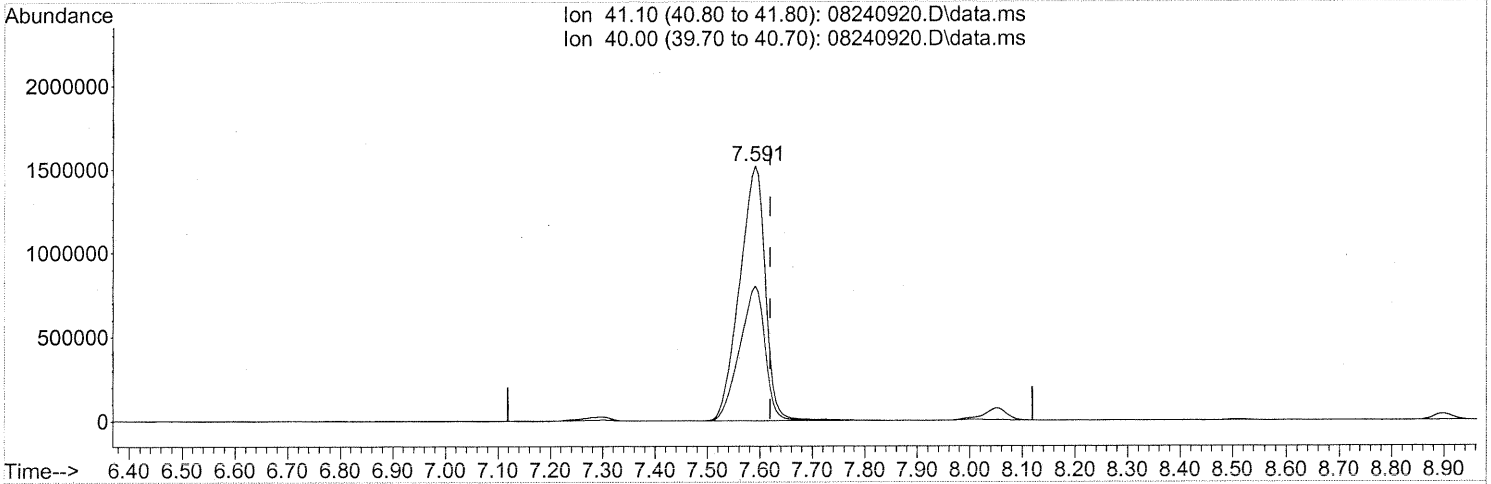
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	34.96
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
 em 8/28/09
 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(11) Acetonitrile (T)
 7.591min (-0.028) 110.81ng
 response 5143898

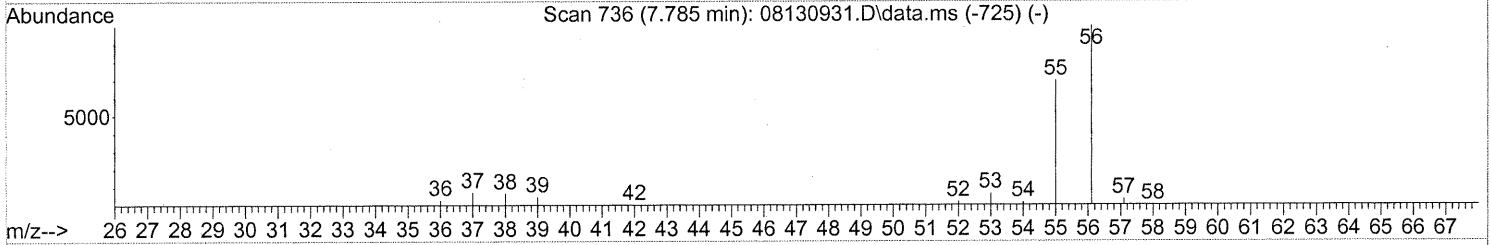
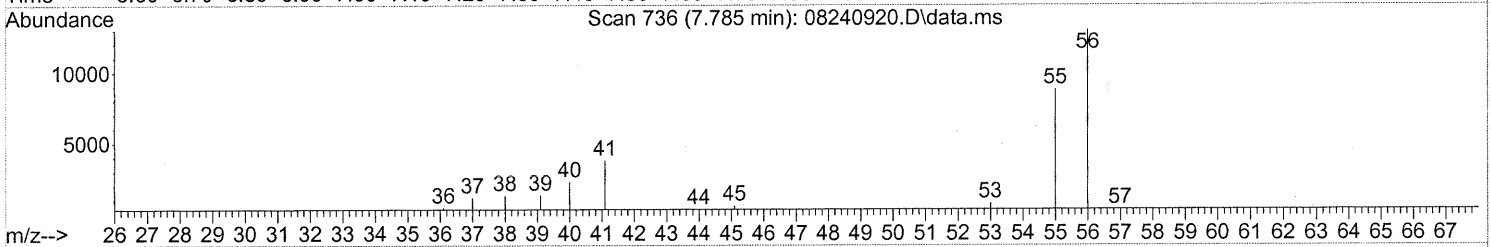
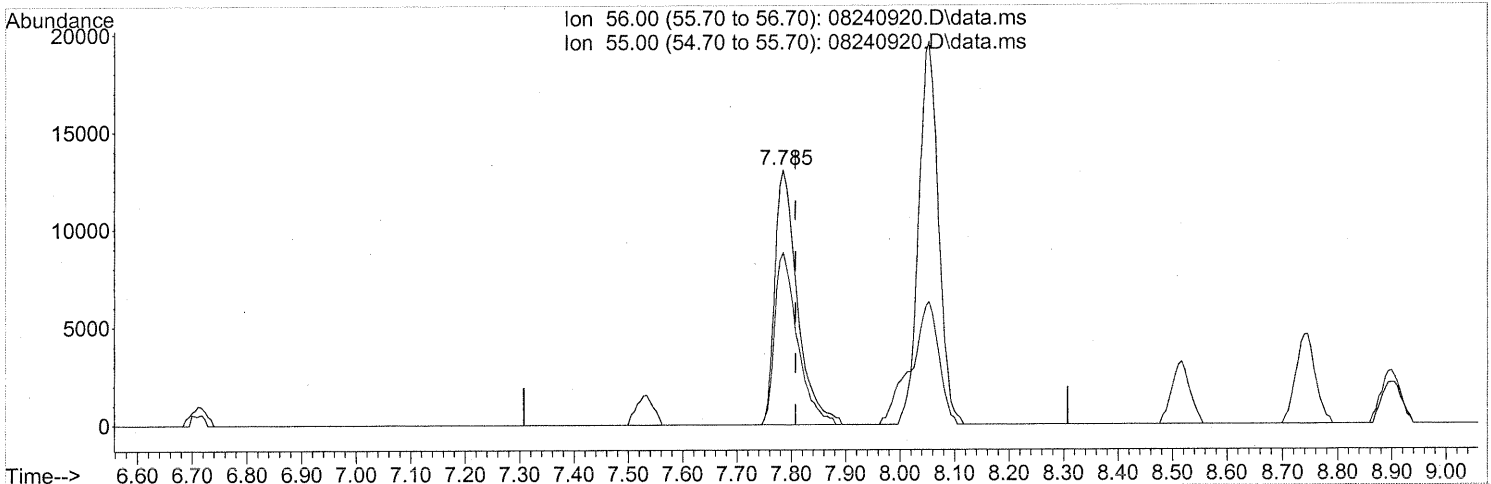
Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.59
0.00	0.00	0.00
0.00	0.00	0.00

E

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(12) Acrolein (T)

7.785min (-0.023) 3.00ng

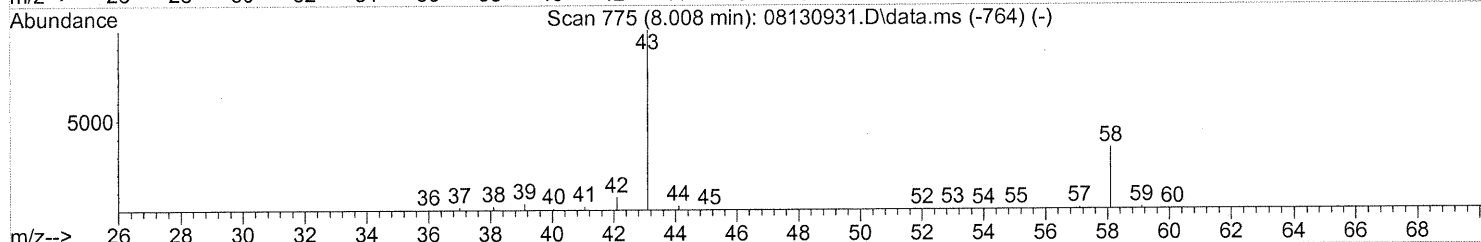
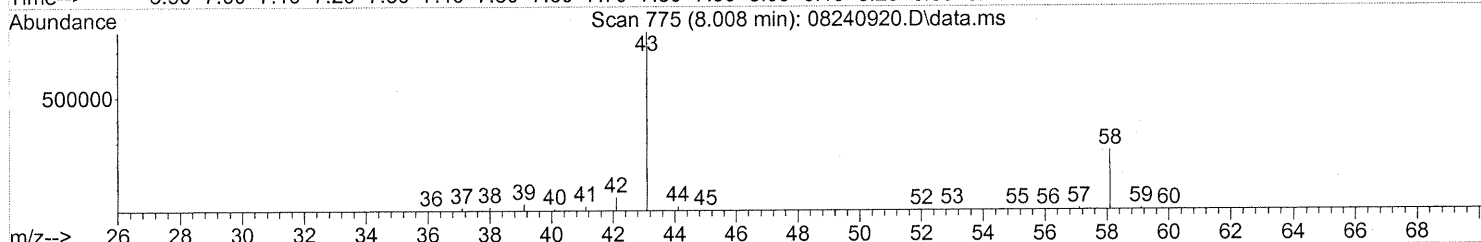
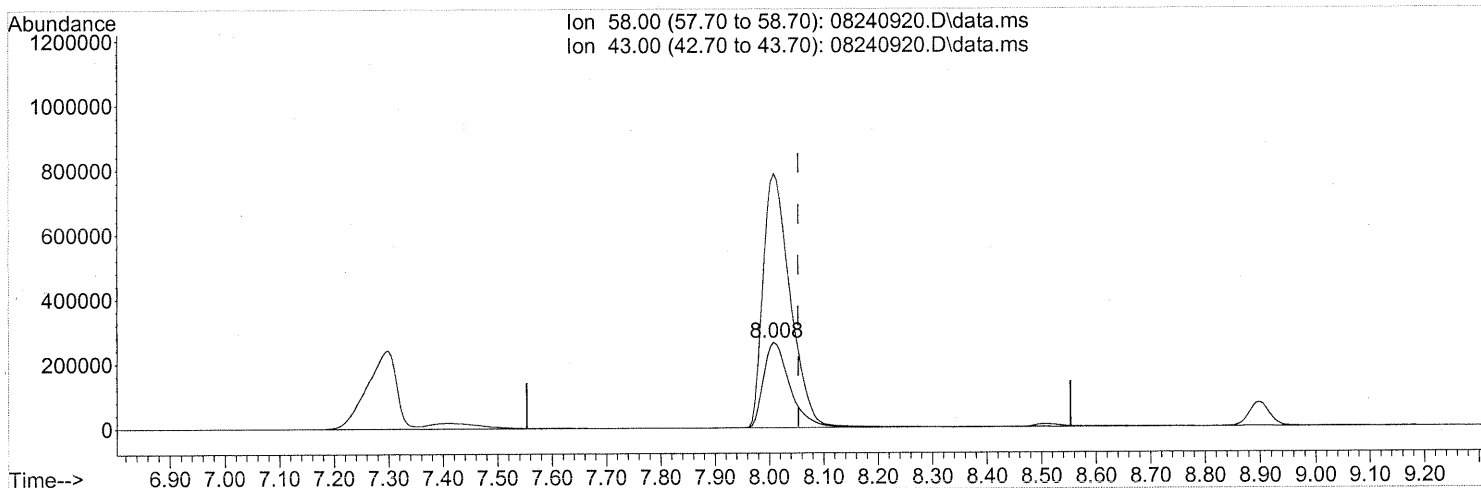
response 37268

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	68.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(13) Acetone (T)

8.008min (-0.046) 45.83ng

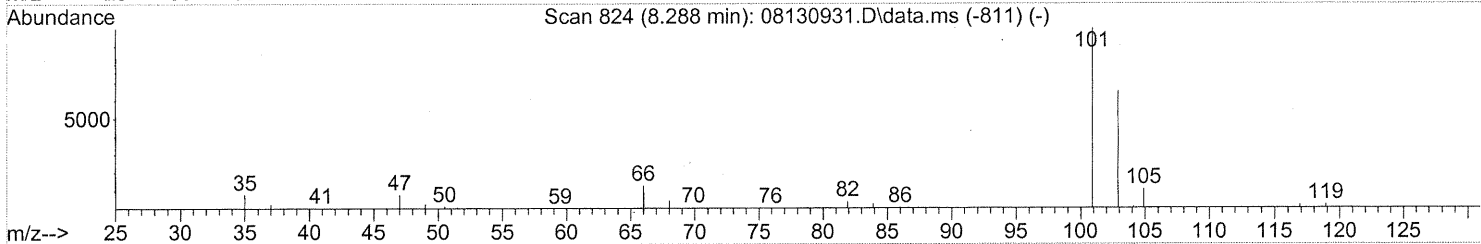
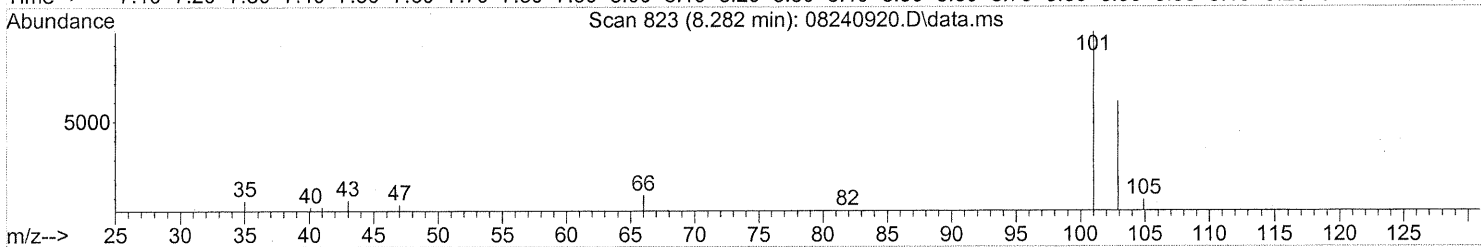
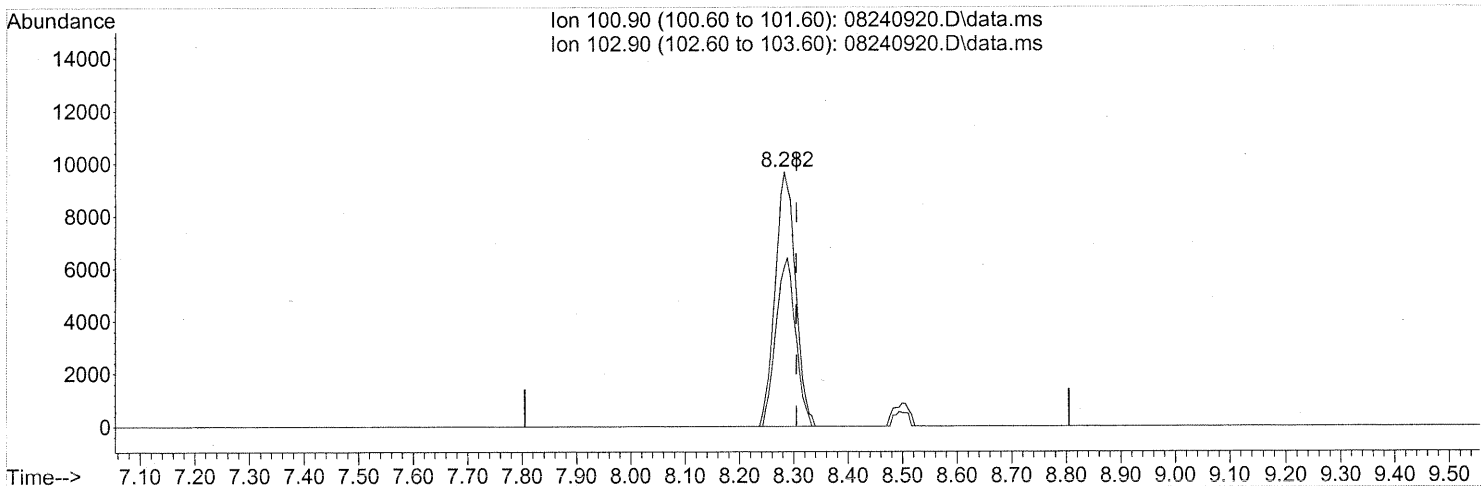
response 887040

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	310.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 0.68ng

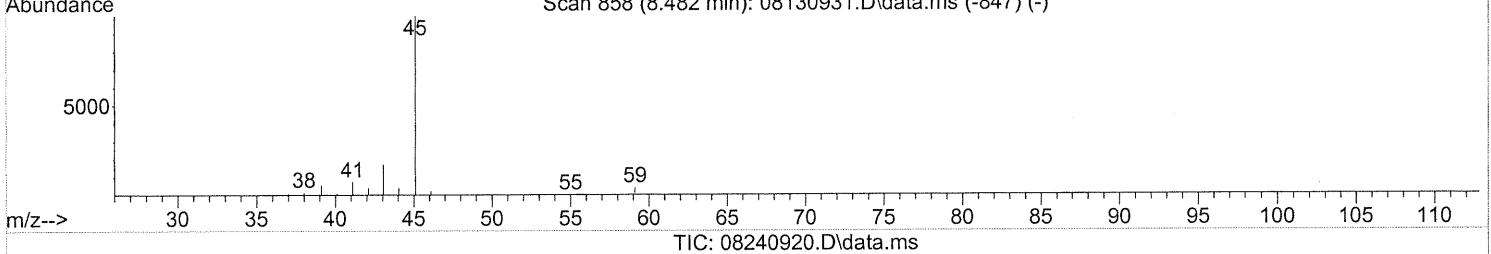
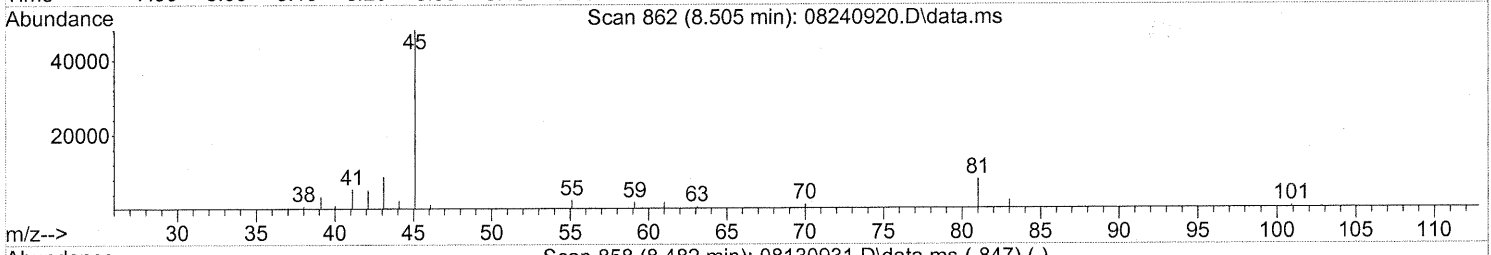
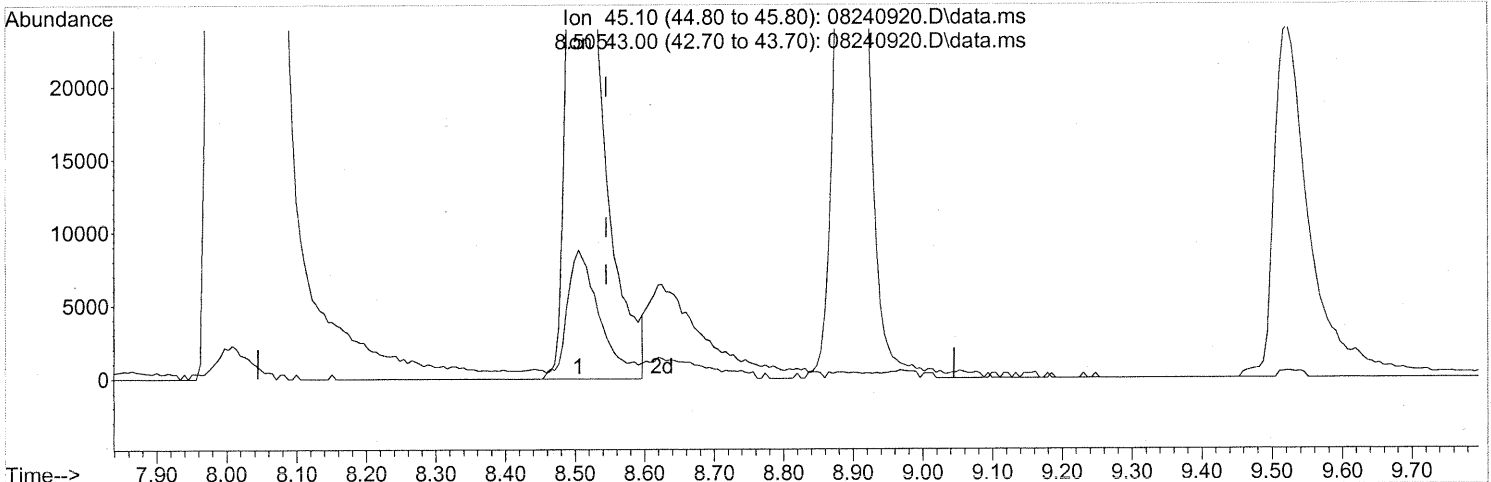
response 25092

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	63.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.505min (-0.040) 2.81ng

response 148824

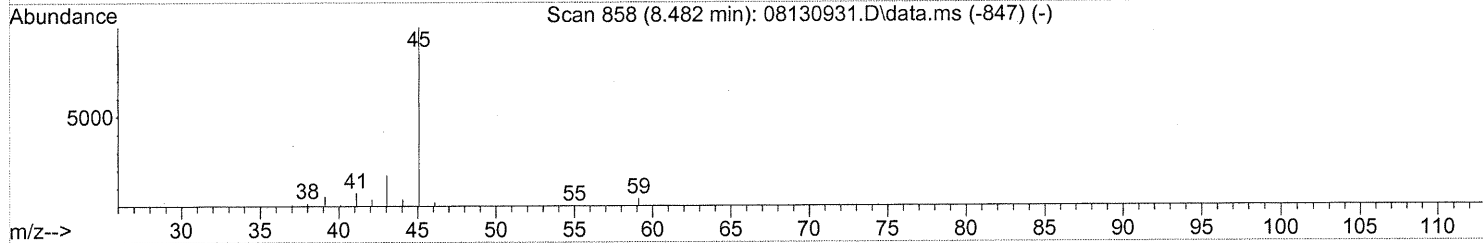
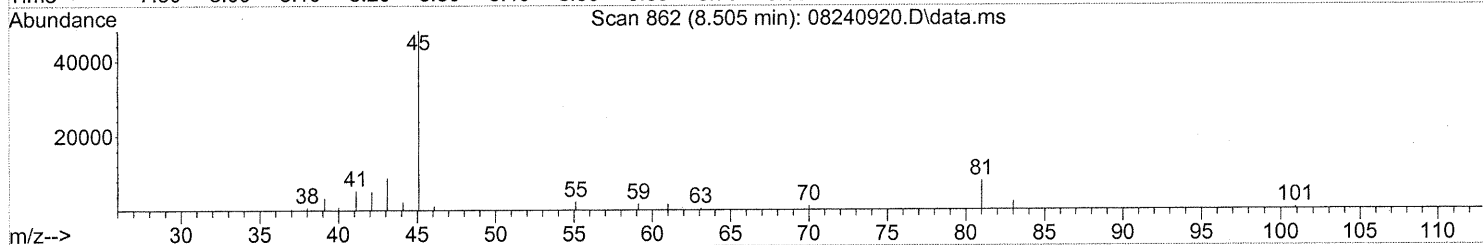
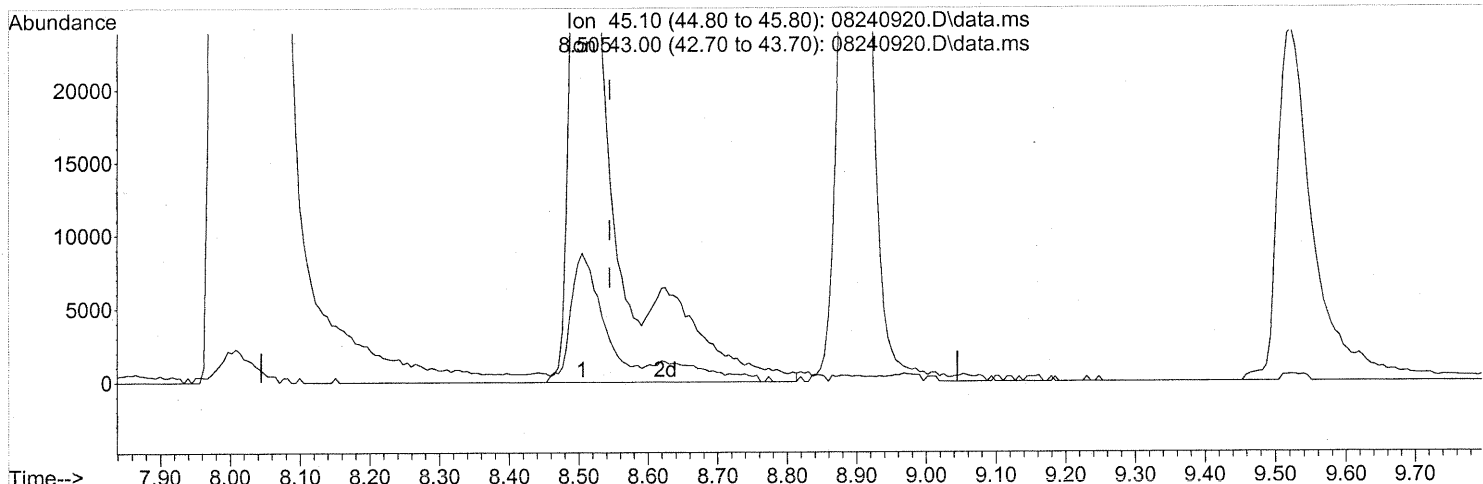
PT

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	24.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

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

8.505min (-0.040) 3.47ng m

response 184099

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	20.08
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

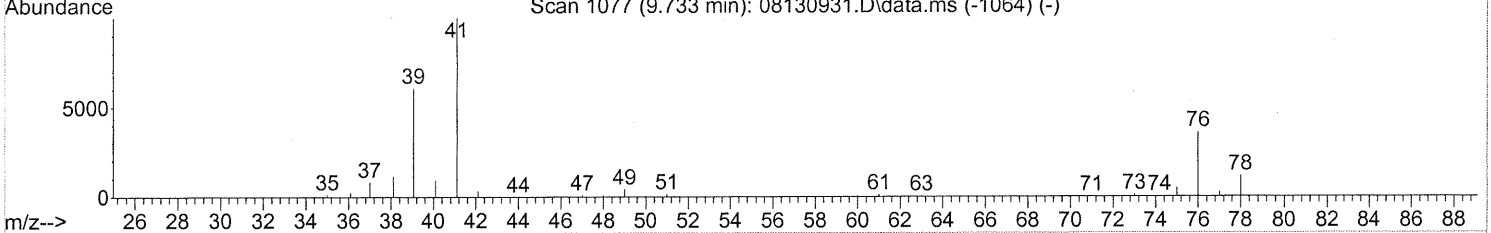
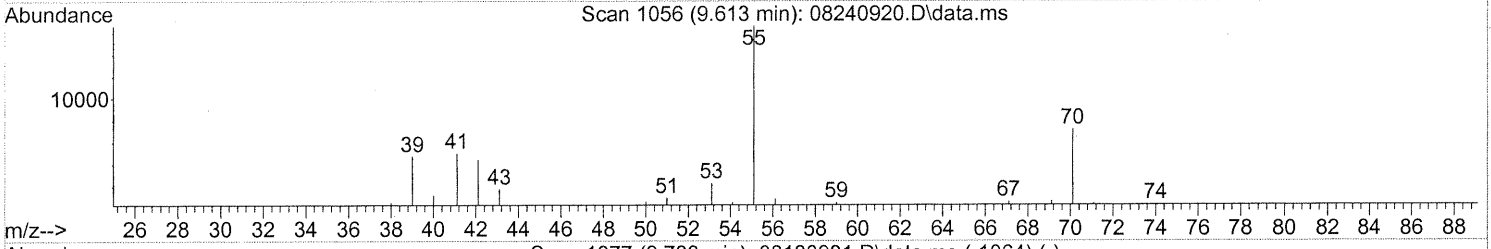
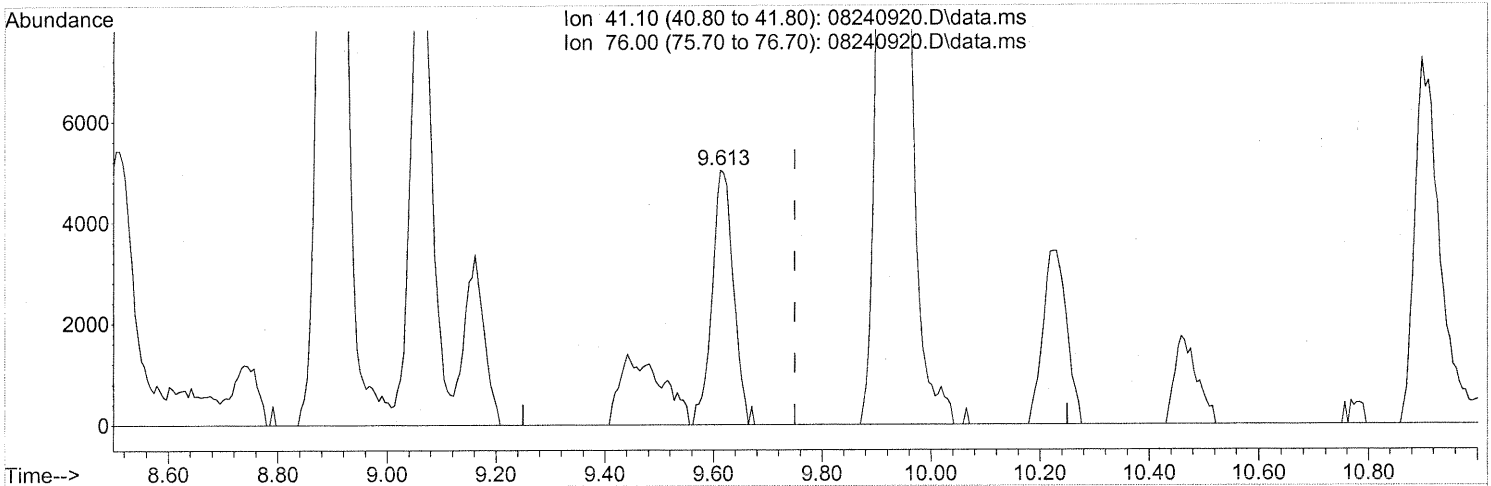
Em 8/28/09

Ⓢ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.613min (-0.137) 0.43ng

response 13848

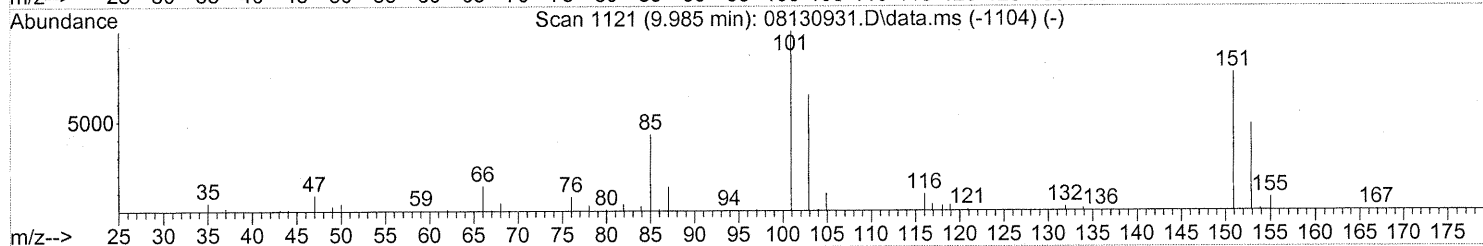
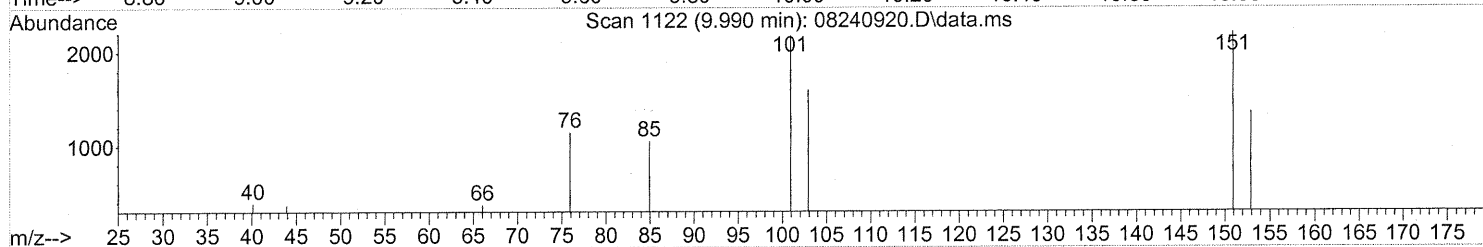
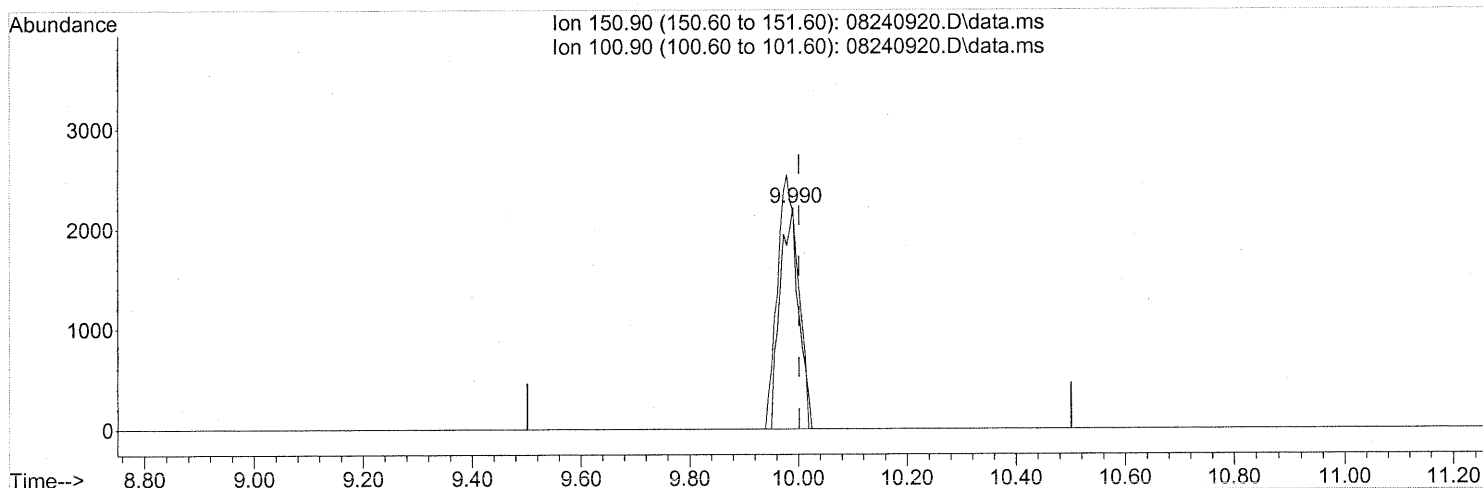
Ion	Exp%	Act%
41.10	100	100
76.00	41.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/28/09
CF 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.990min (-0.011) 0.32ng

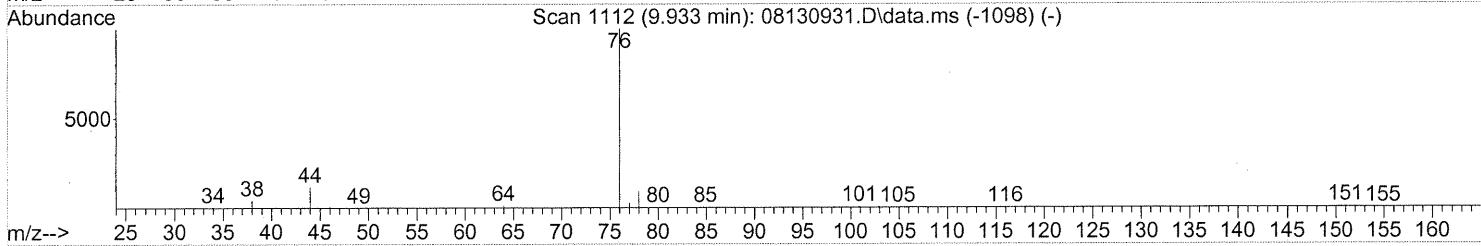
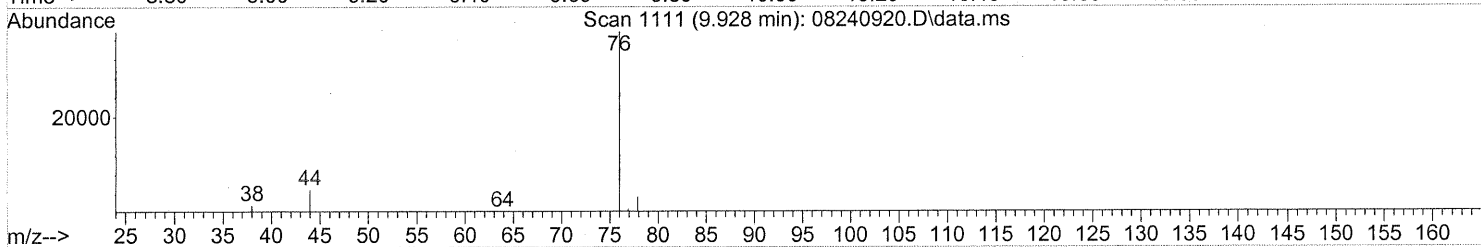
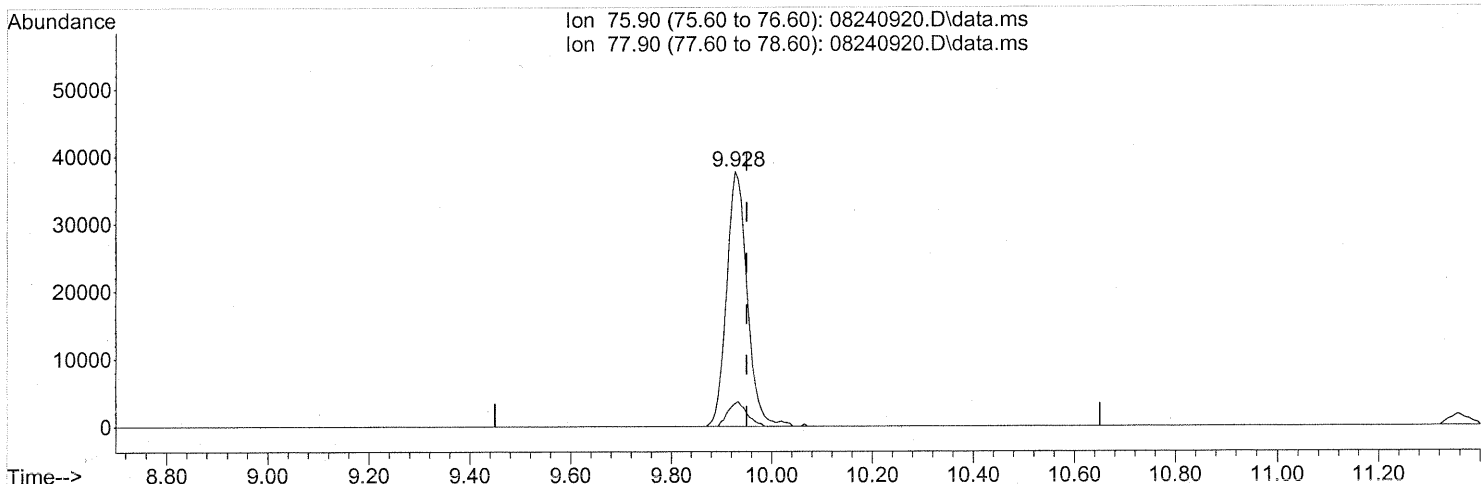
response 5285

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	126.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(22) Carbon Disulfide (T)

9.928min (-0.023) 1.25ng

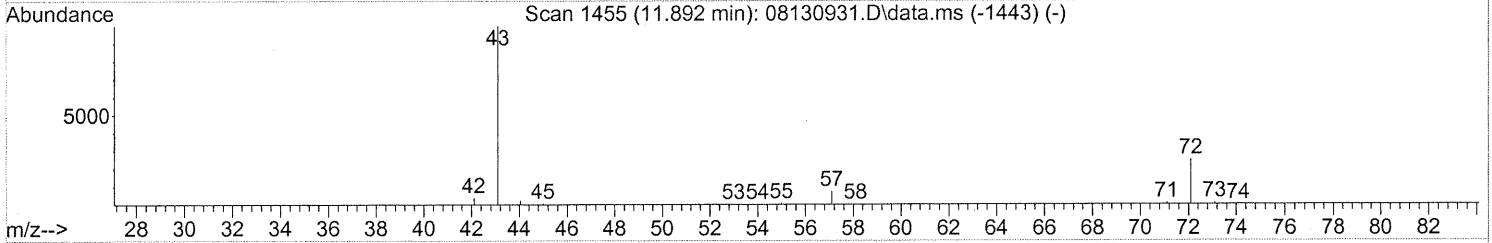
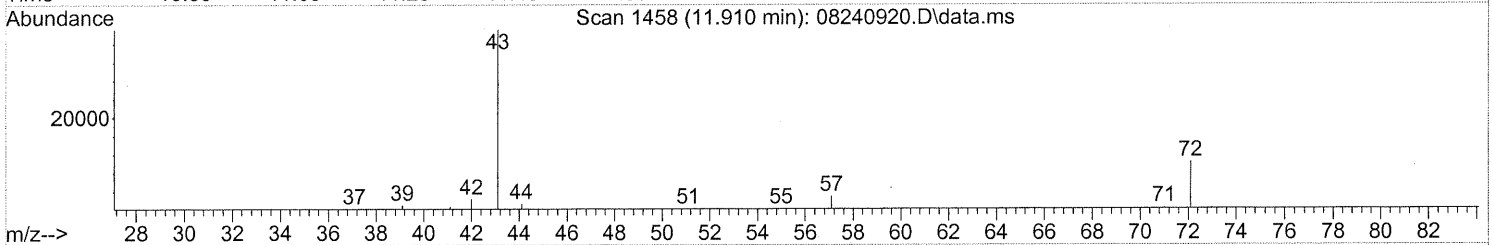
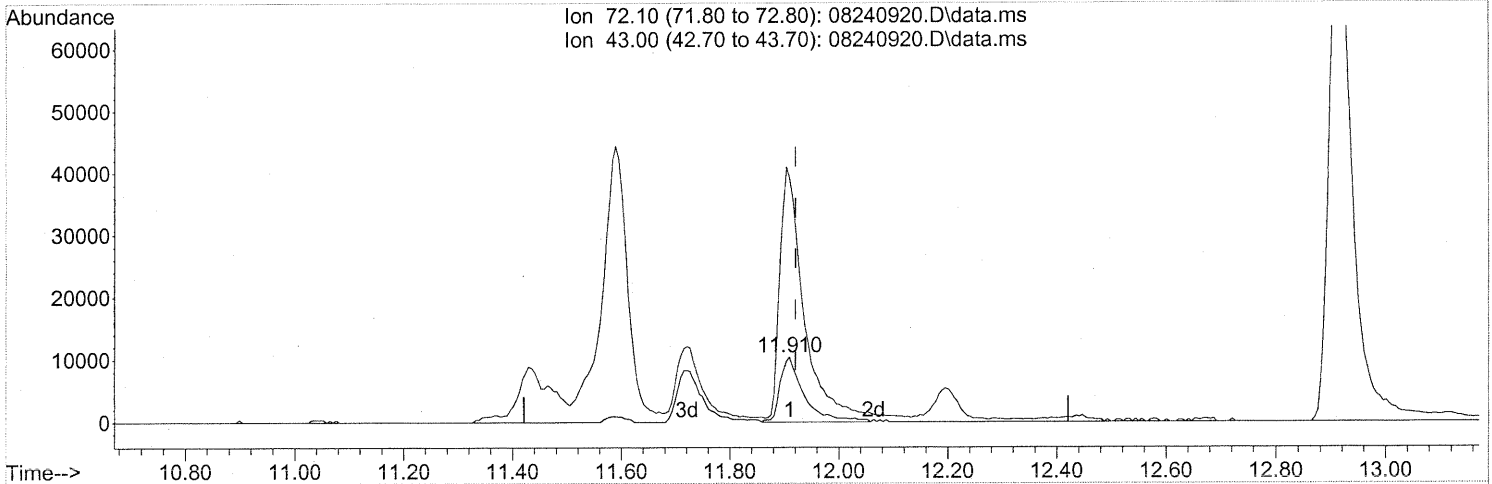
response 106544

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

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

11.910min (-0.011) 2.32ng

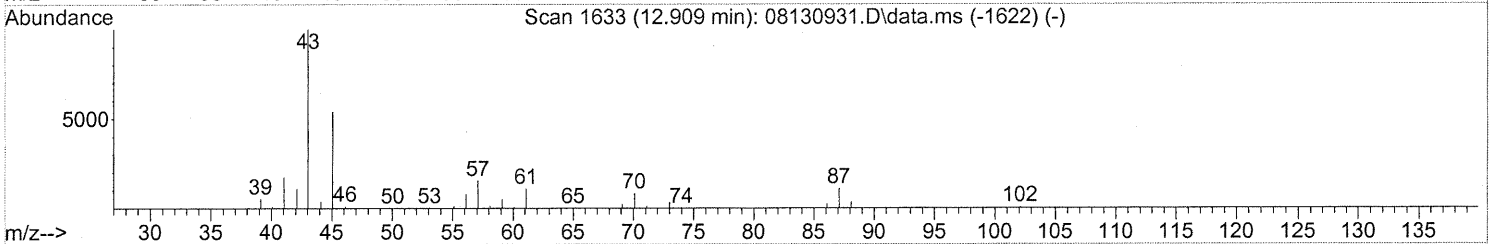
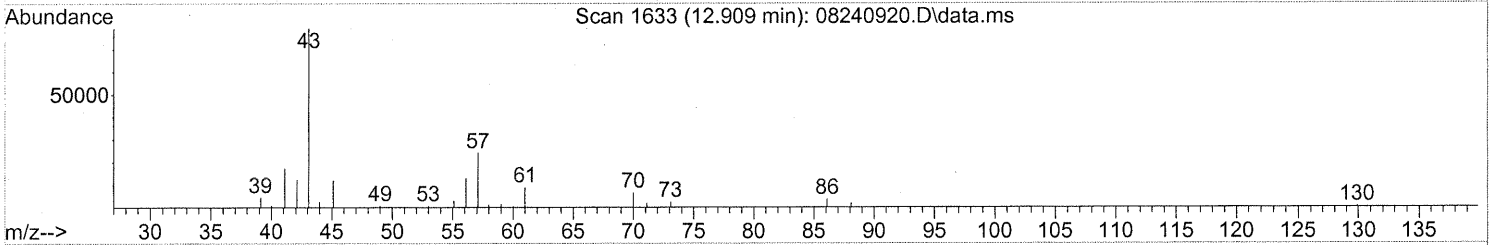
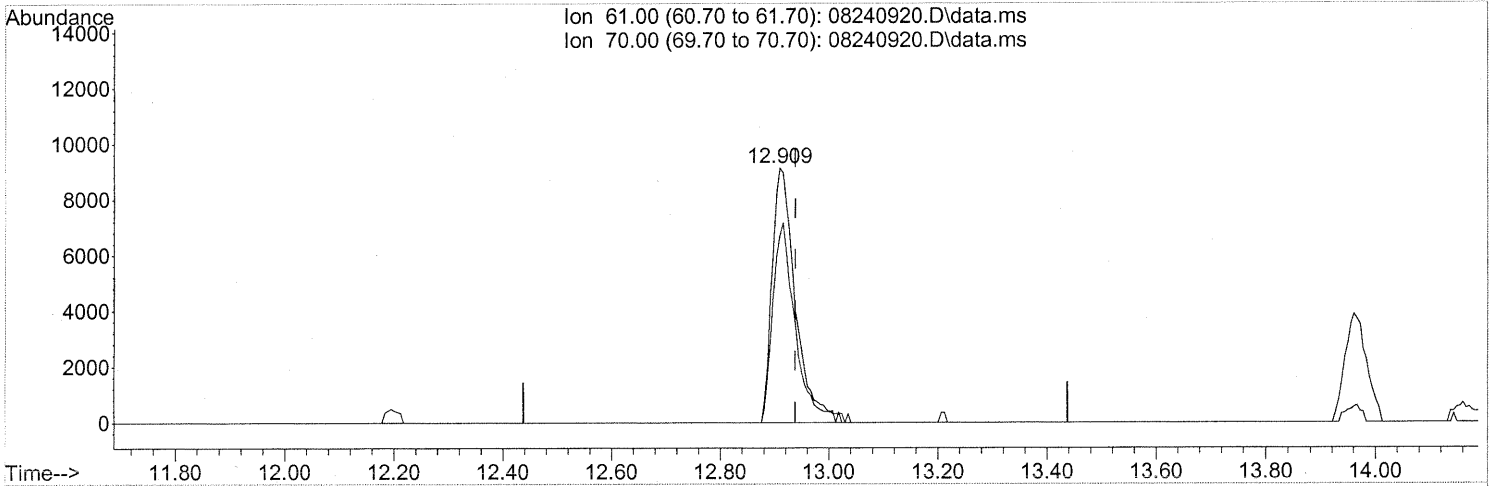
response 31303

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	389.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

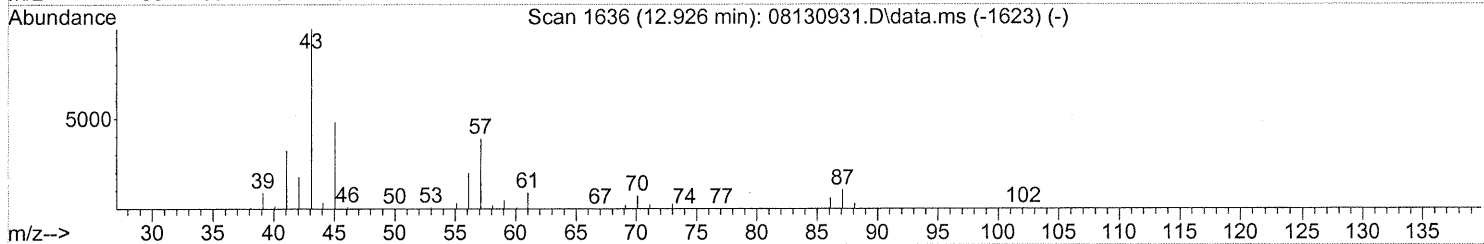
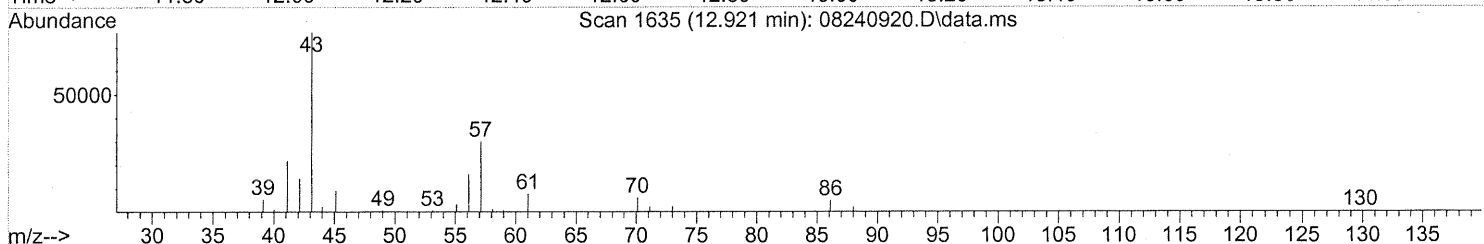
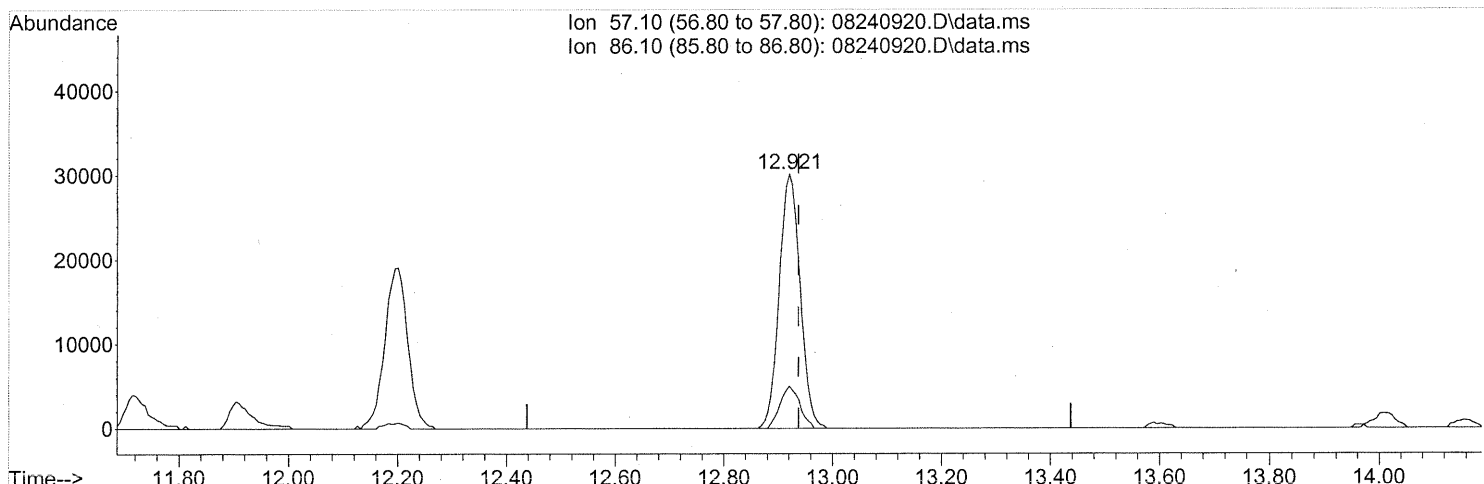
(30) Ethyl Acetate (T)
 12.909min (-0.029) 3.09ng
 response 27047

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	76.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

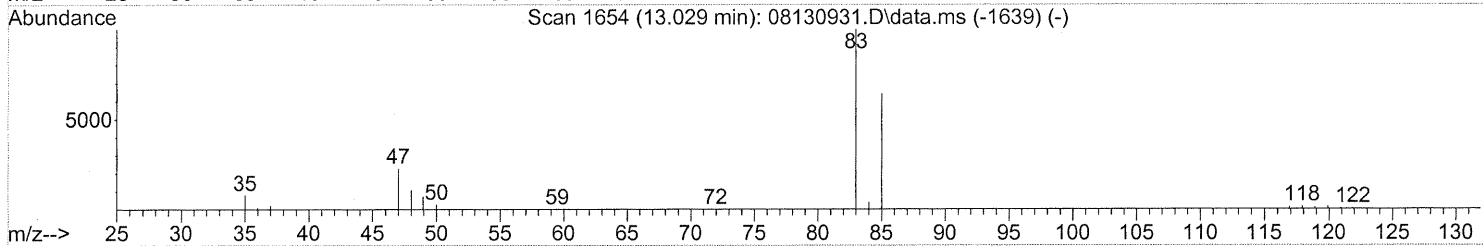
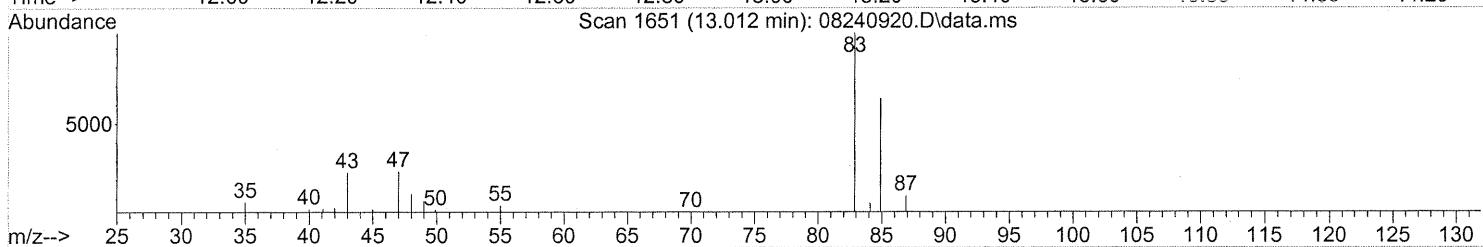
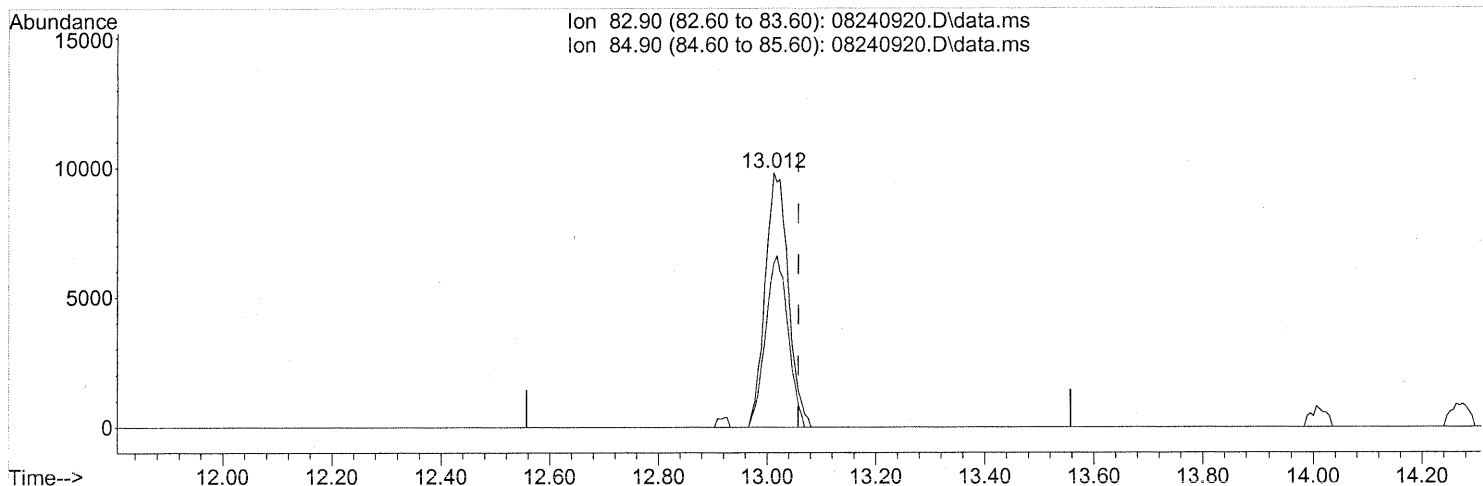
(31) n-Hexane (T)
 12.921min (-0.017) 1.89ng
 response 80548

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(32) Chloroform (T)

13.012min (-0.046) 0.81ng

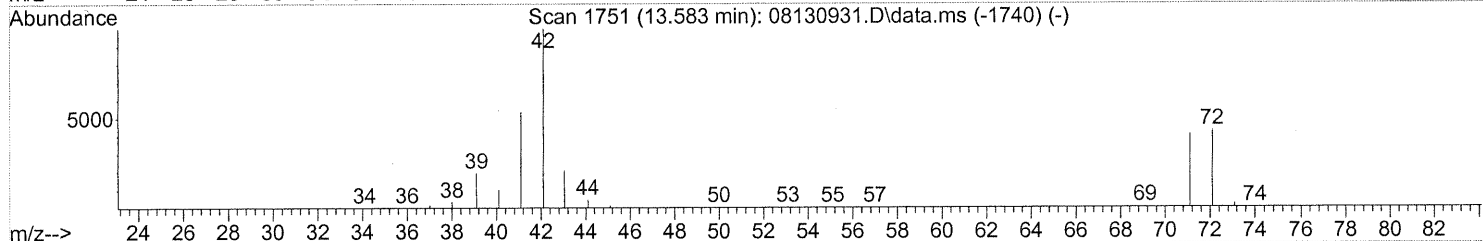
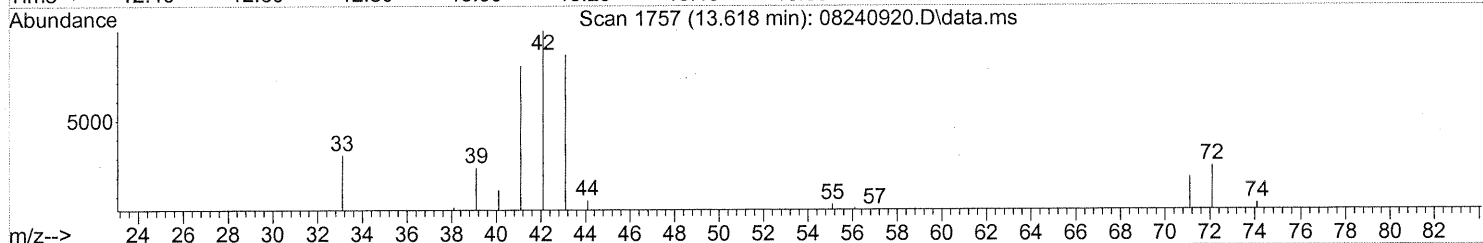
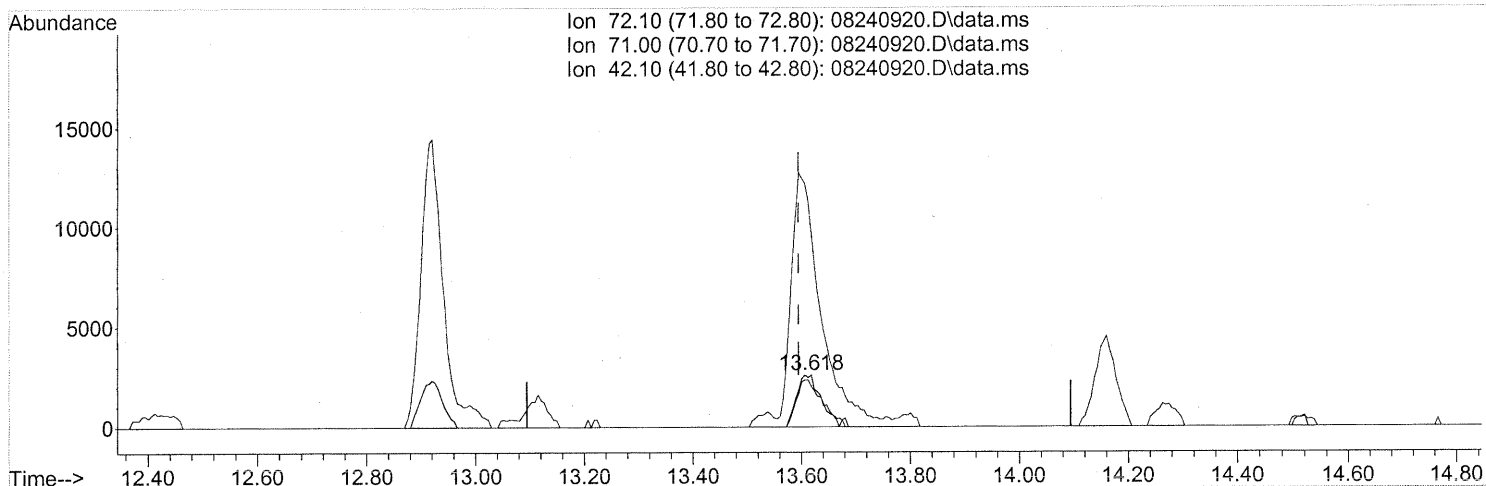
response 28956

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.618min (+0.023) 0.60ng

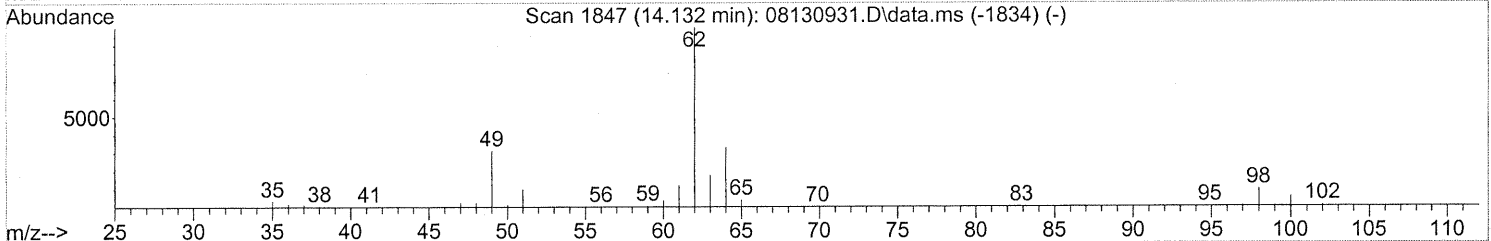
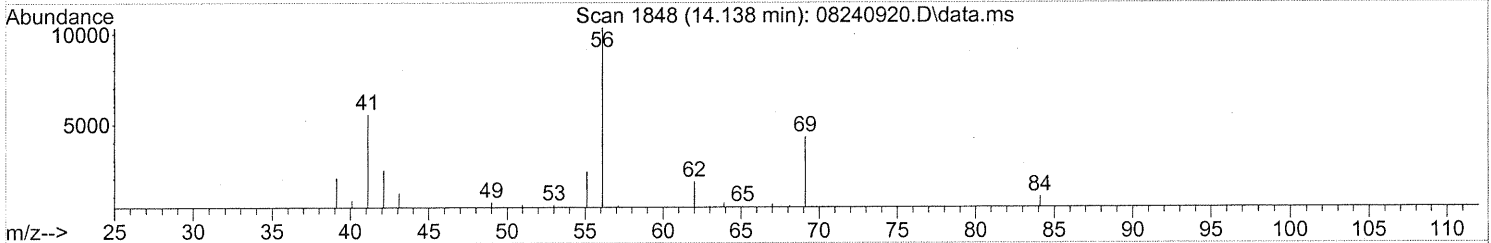
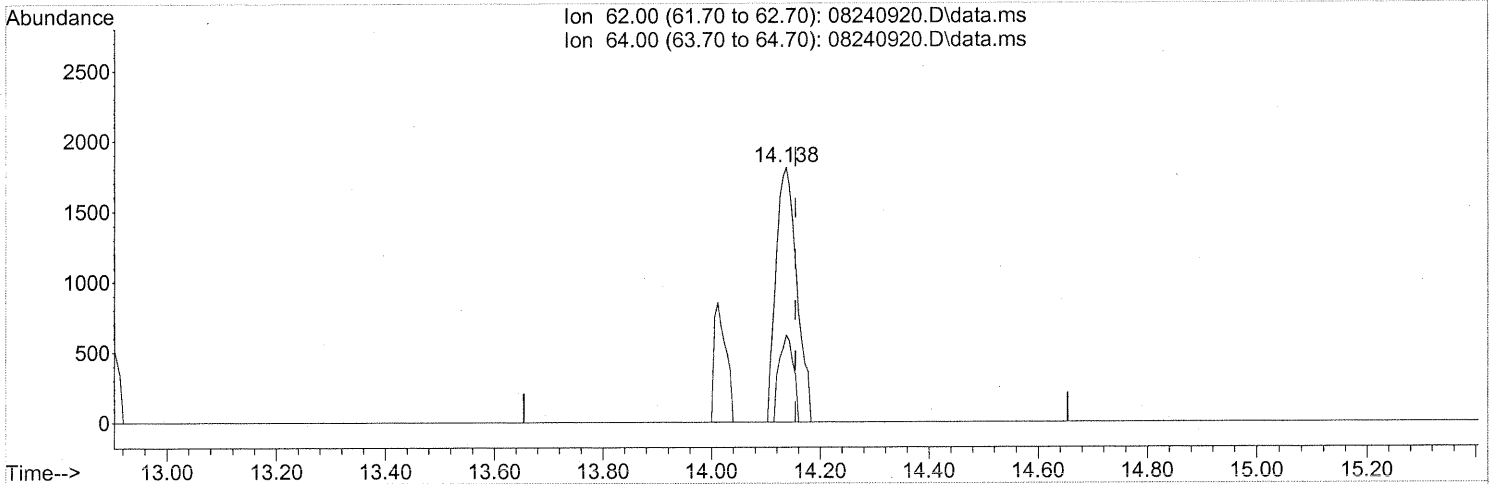
response 8472

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	0.00#
42.10	206.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(36) 1,2-Dichloroethane (T)

14.138min (-0.017) 0.18ng

response 4795

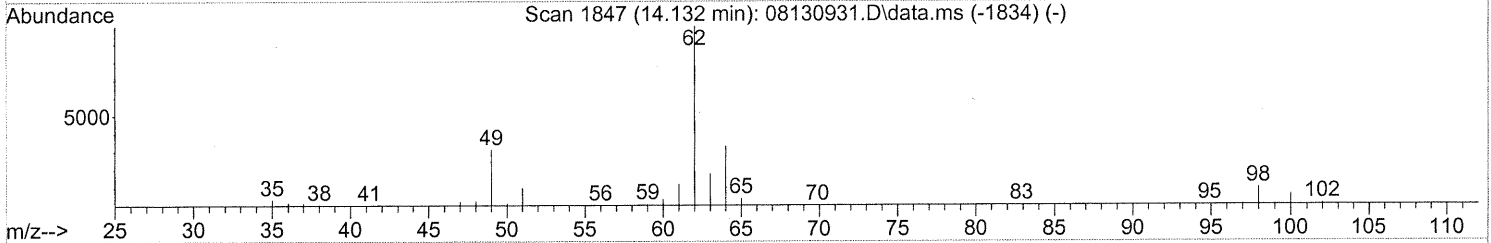
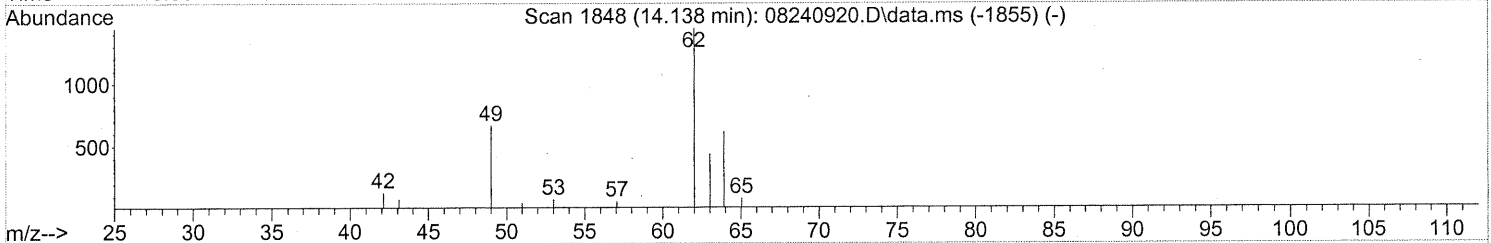
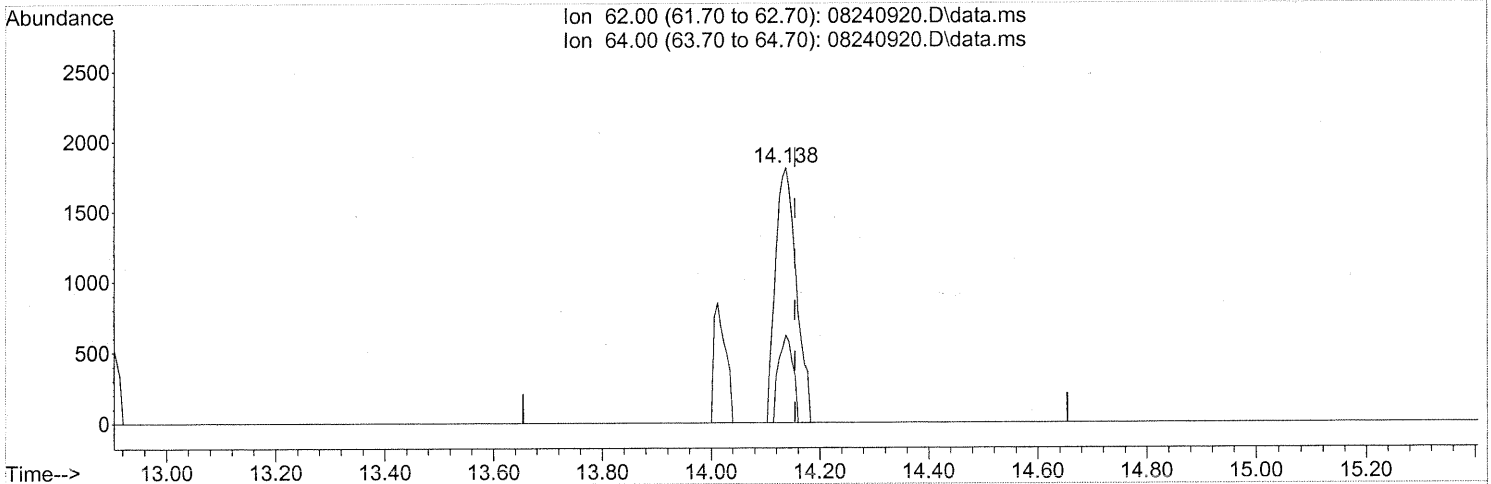
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	23.32
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(36) 1,2-Dichloroethane (T)

14.138min (-0.017) 0.18ng

response 4795

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	23.32
0.00	0.00	0.00
0.00	0.00	0.00

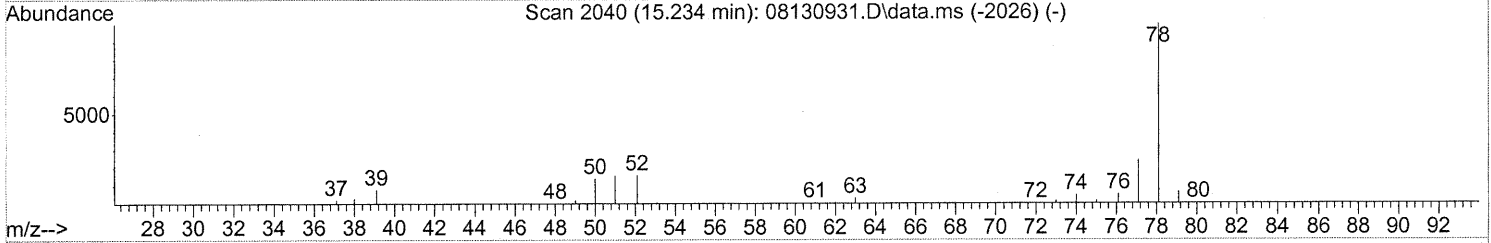
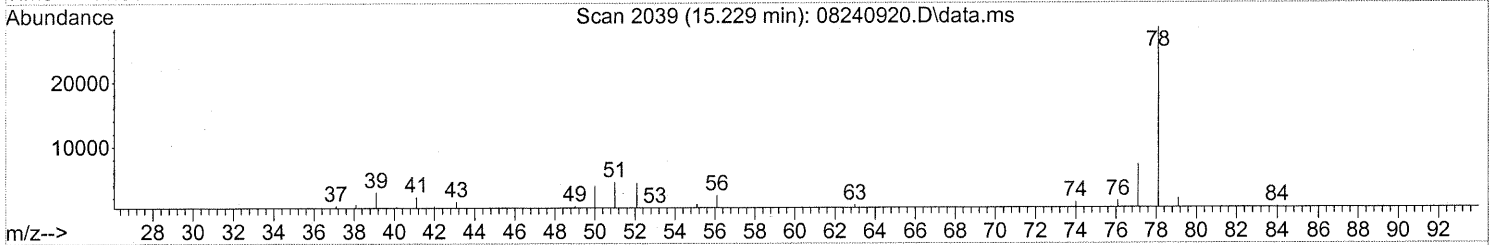
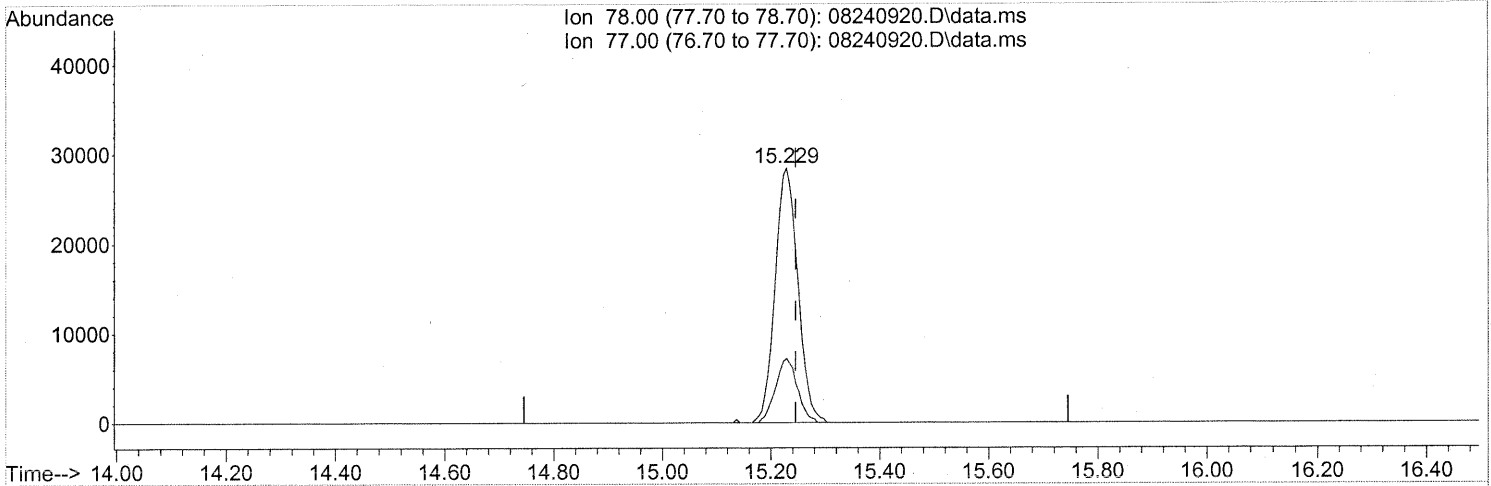
After subtraction

em 8/28/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(41) Benzene (T)

15.229min (-0.017) 0.87ng

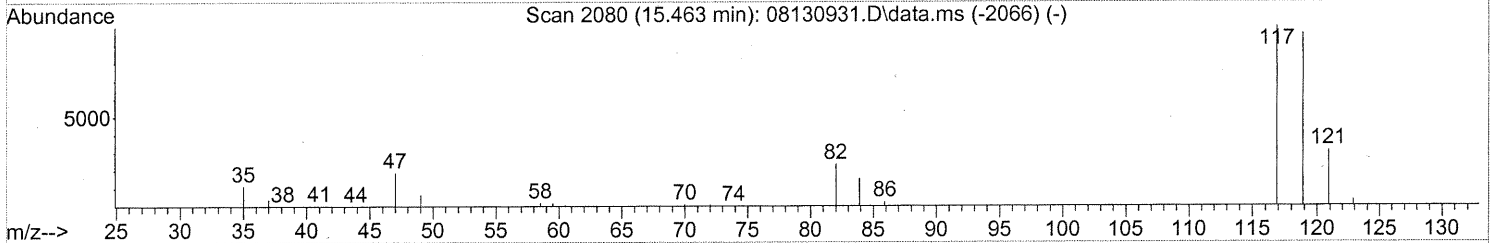
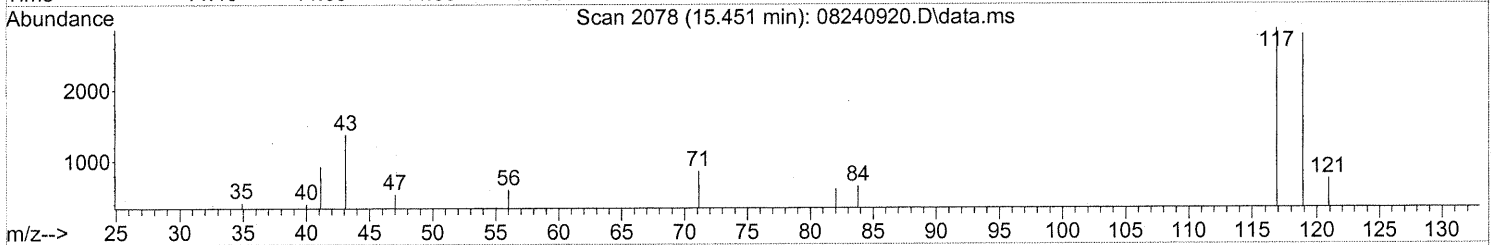
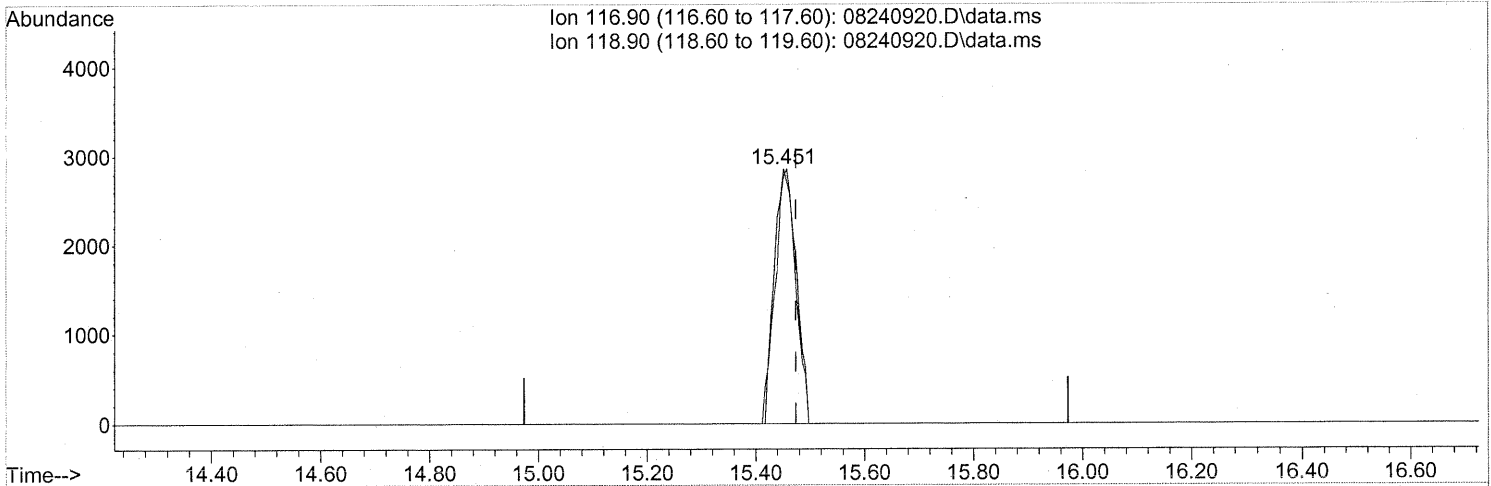
response 82155

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(42) Carbon Tetrachloride (T)

15.451min (-0.023) 0.30ng

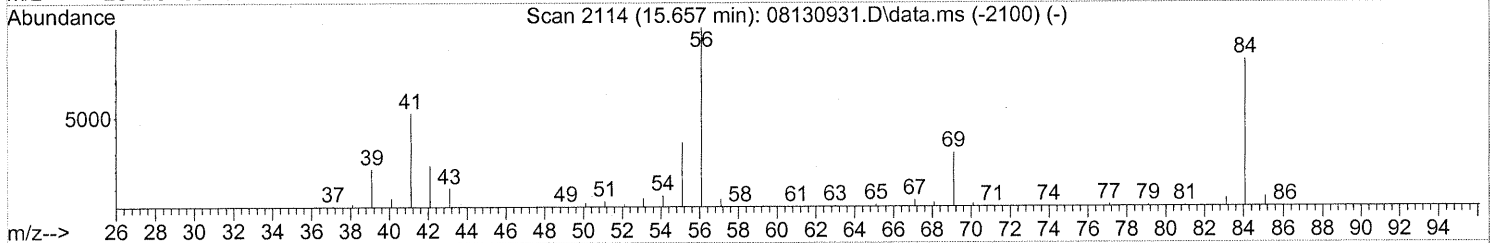
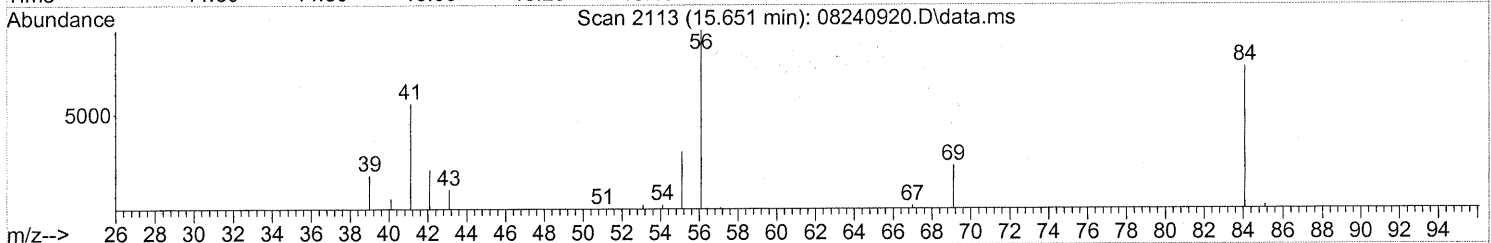
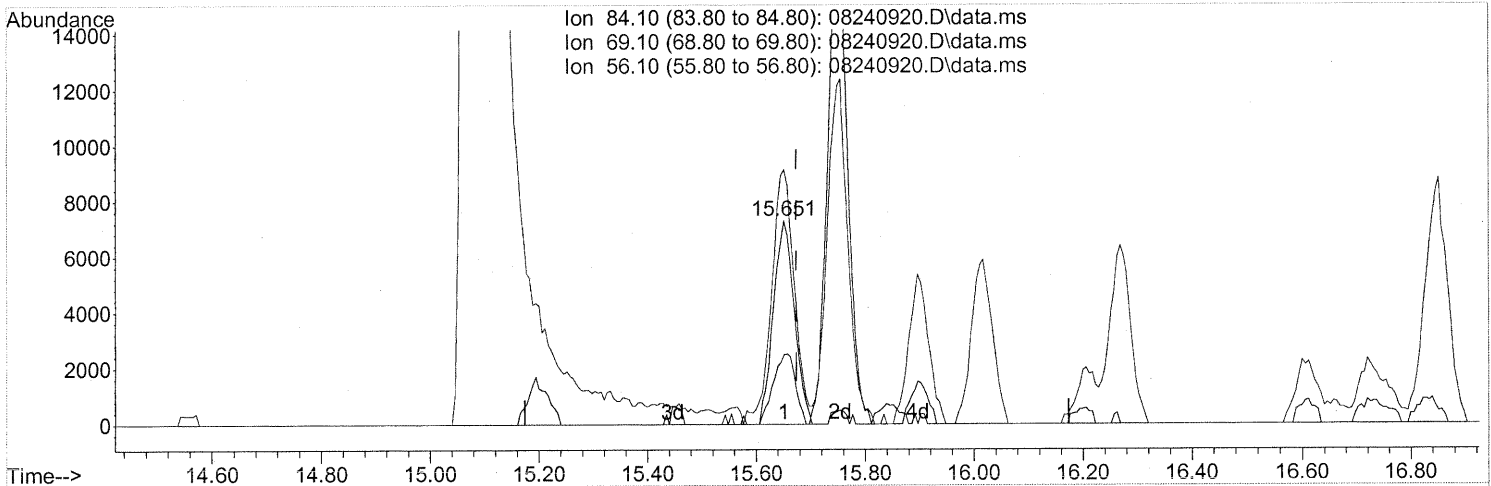
response 7996

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	93.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(43) Cyclohexane (T)

15.651min (-0.023) 0.53ng

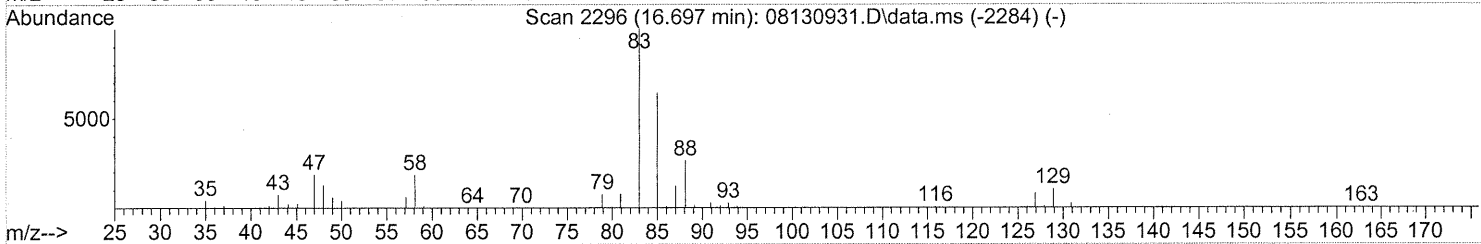
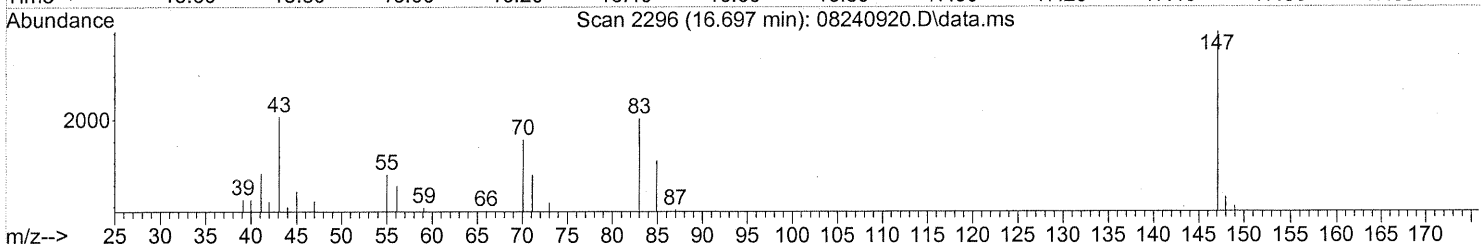
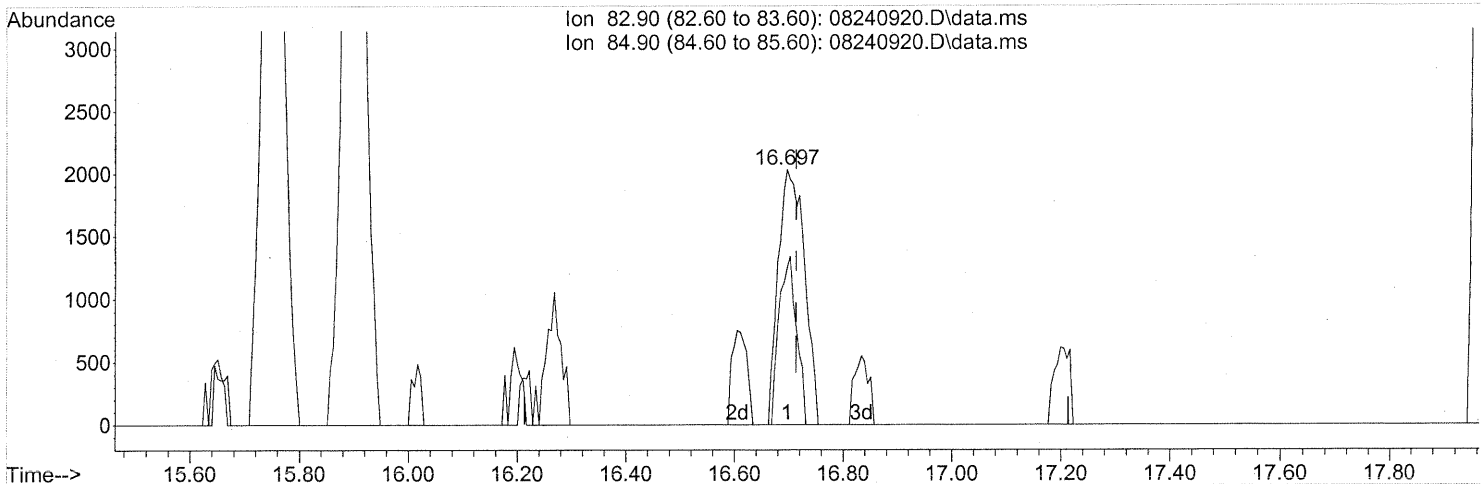
response 19433

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	36.24
56.10	107.30	136.08#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240920.D
Acq On : 24 Aug 2009 21:52
Operator : EM
Sample : P0902832-003 (1000ml)
Misc : Eng. H&E 101653
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.697min (-0.017) 0.25ng

response 6780

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	44.07#
0.00	0.00	0.00
0.00	0.00	0.00

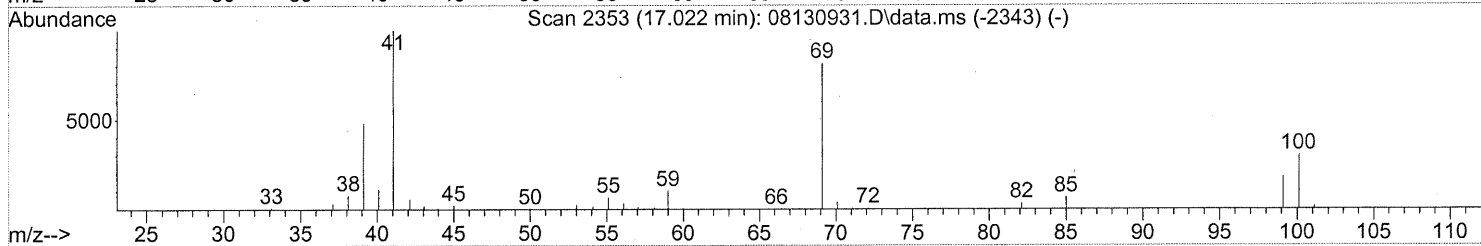
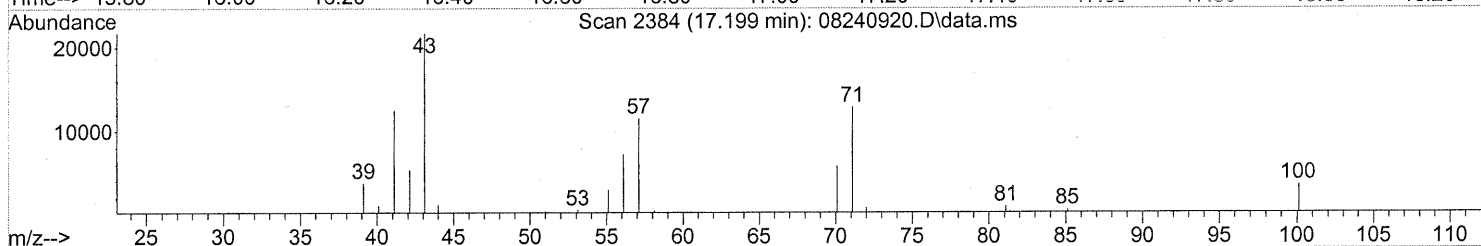
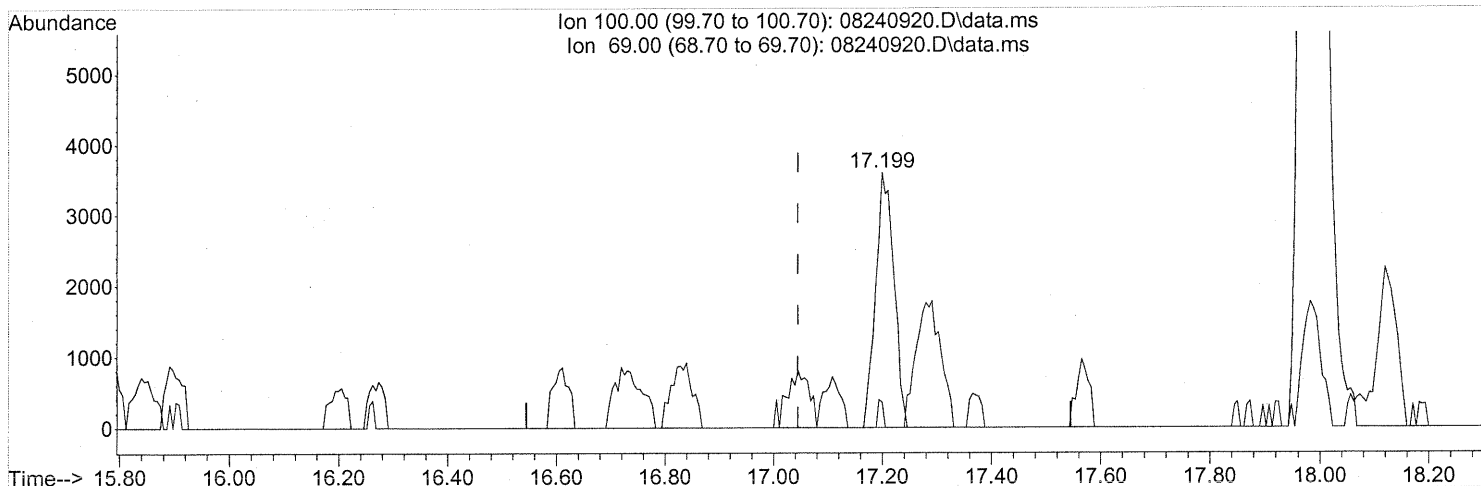
FP em 8/28/09

Ⓢ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(50) Methyl Methacrylate (T)

17.199min (+0.154) 0.89ng

response 8372

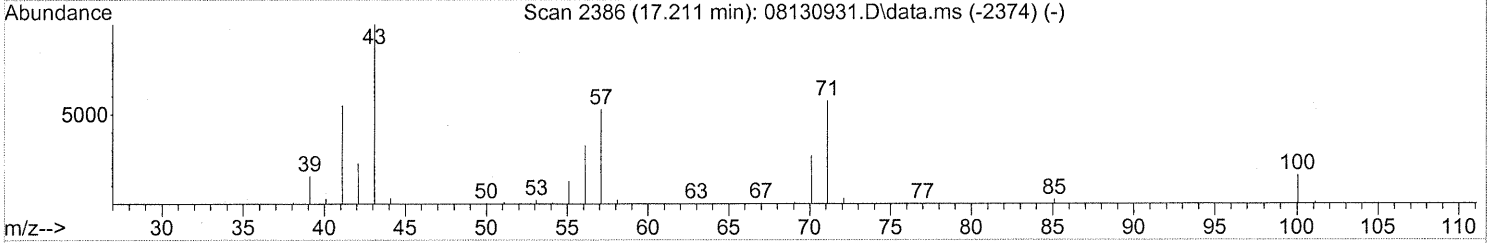
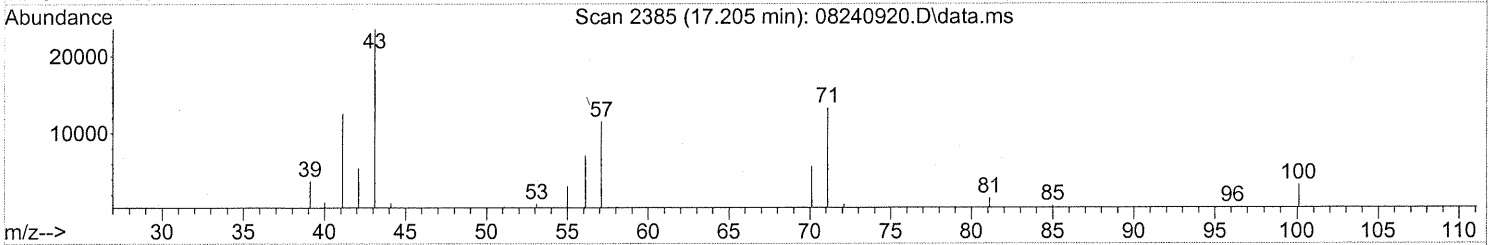
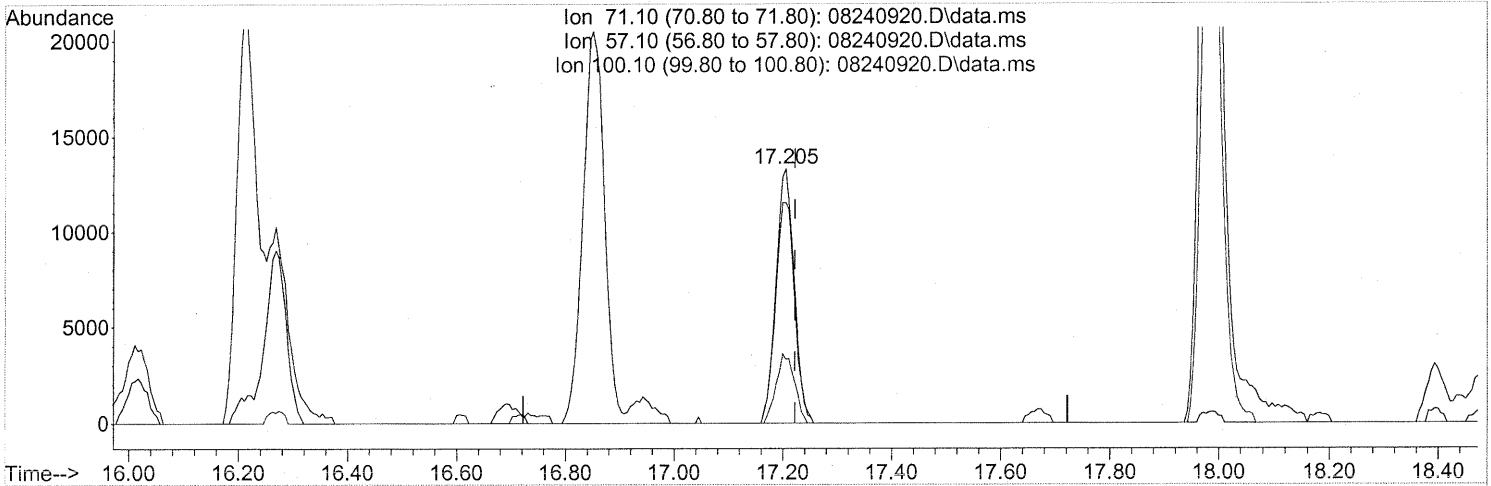
Ion	Exp%	Act%
100.00	100	100
69.00	261.10	3.03#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/28/09
 ca 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(51) n-Heptane (T)

17.205min (-0.017) 1.22ng

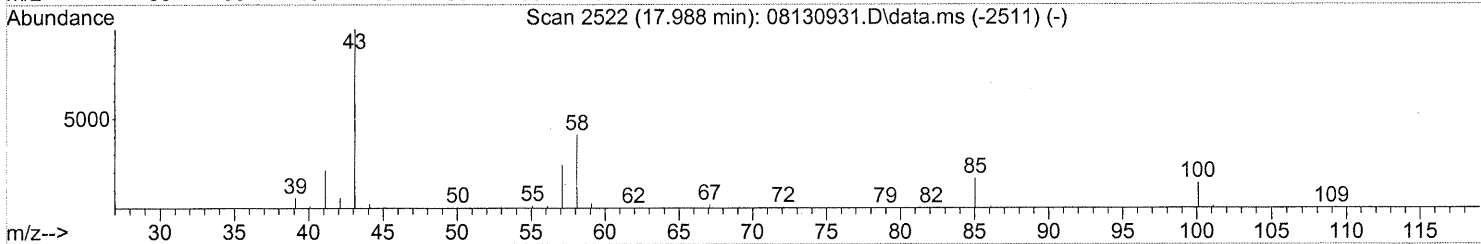
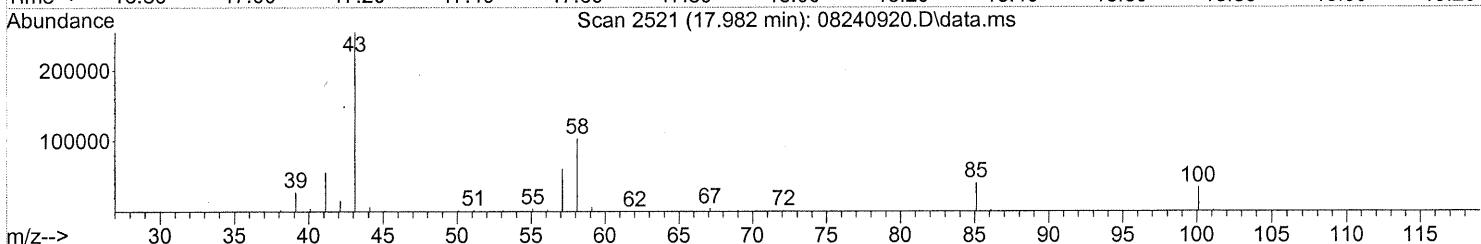
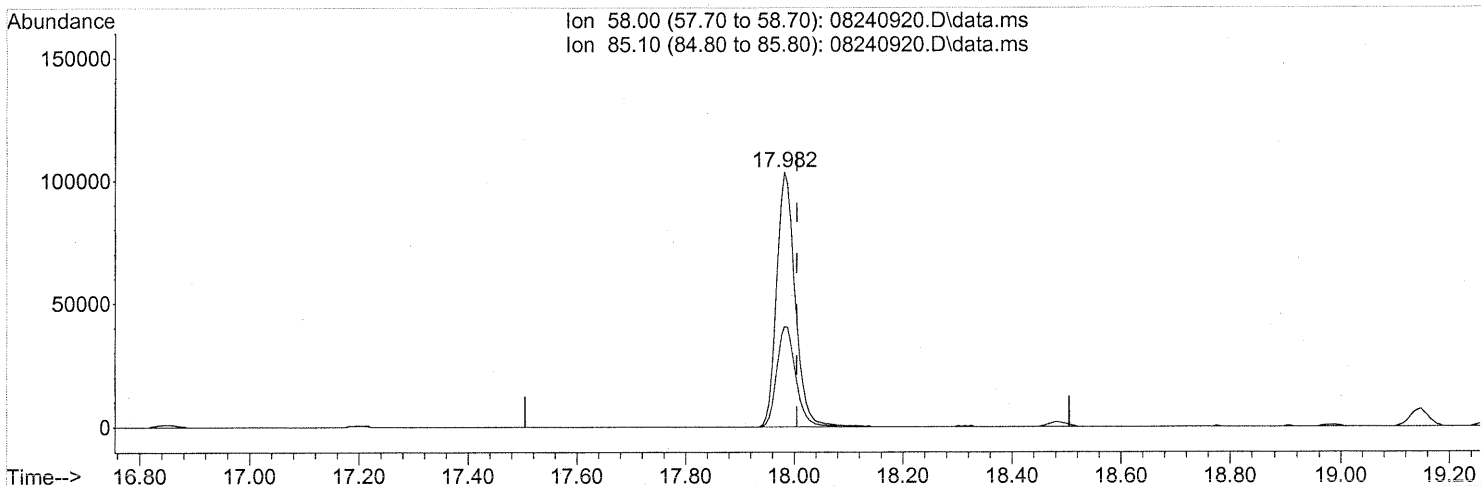
response 30735

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	91.59
100.10	30.70	27.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

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

17.982min (-0.023) 11.95ng

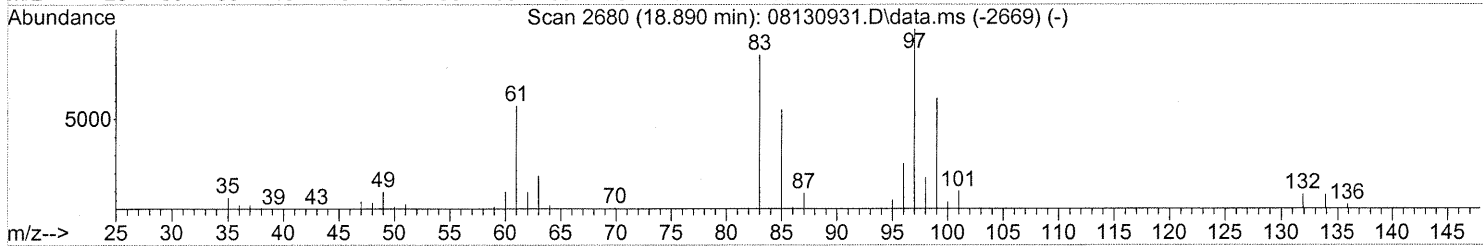
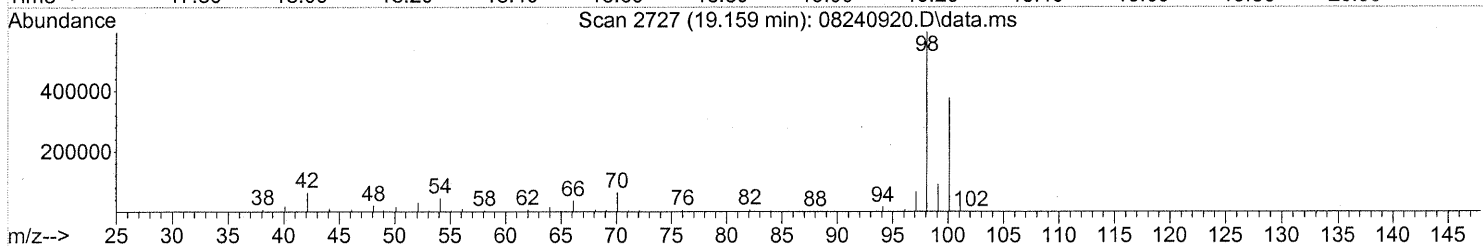
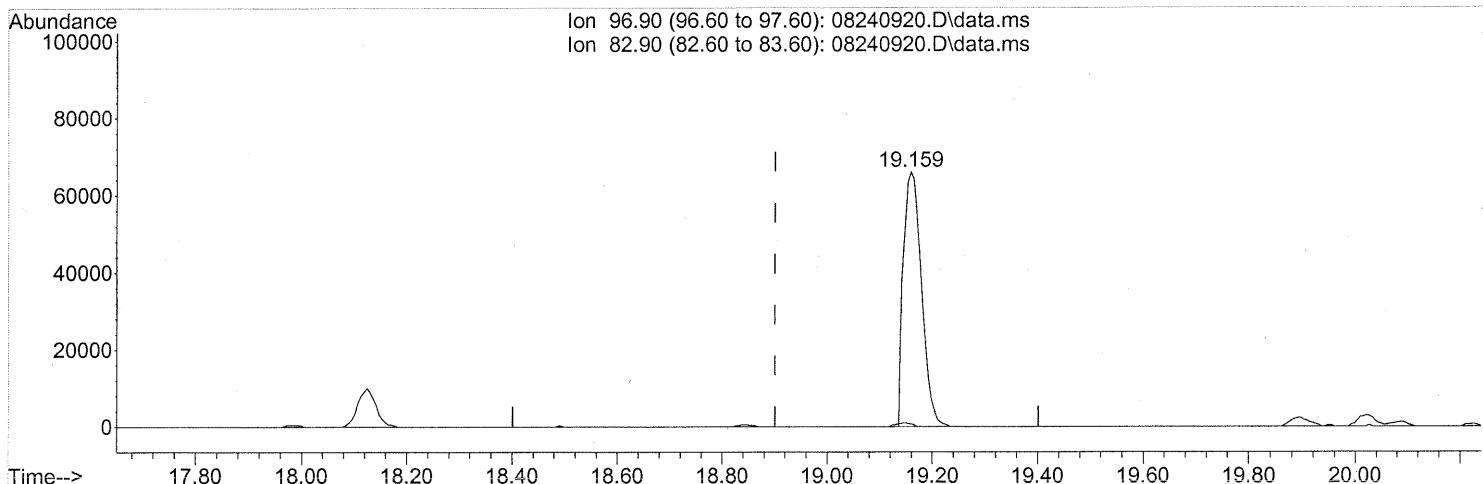
response 243791

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	40.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

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

19.159min (+0.257) 7.85ng

response 158359

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.13#
0.00	0.00	0.00
0.00	0.00	0.00

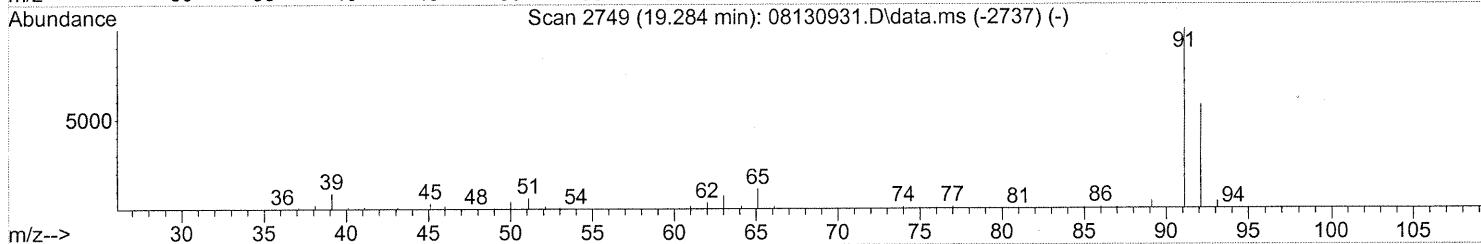
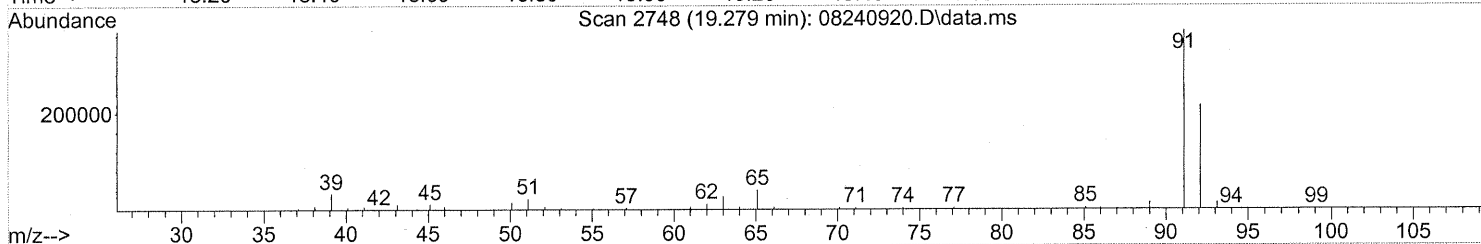
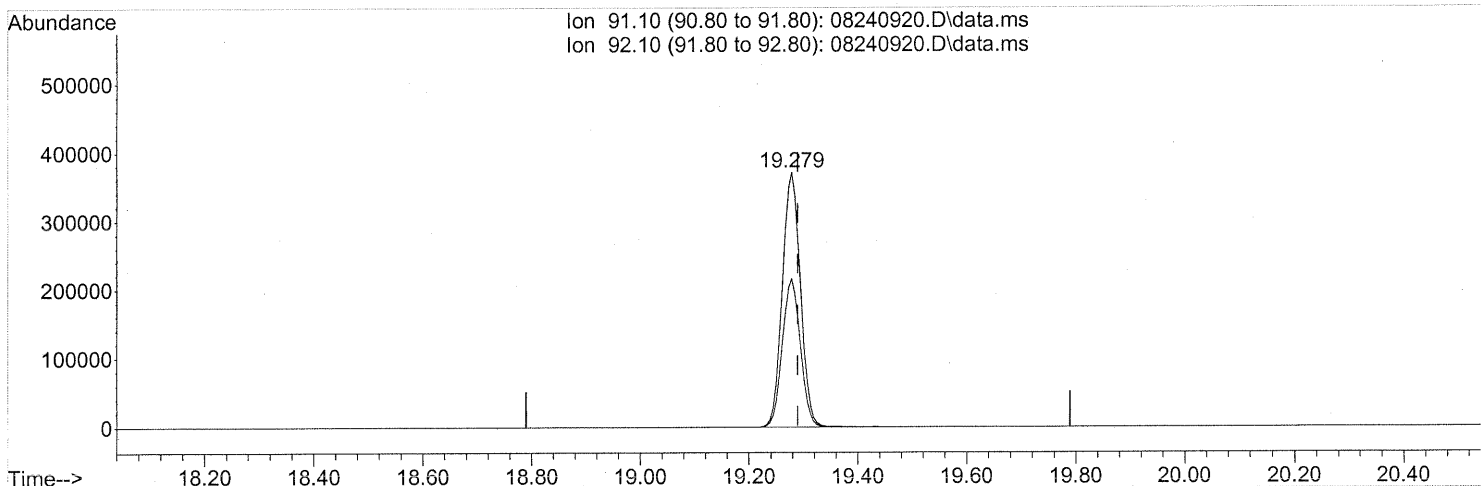
FP em 8/28/09

CA 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 25 07:37:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 8.87ng

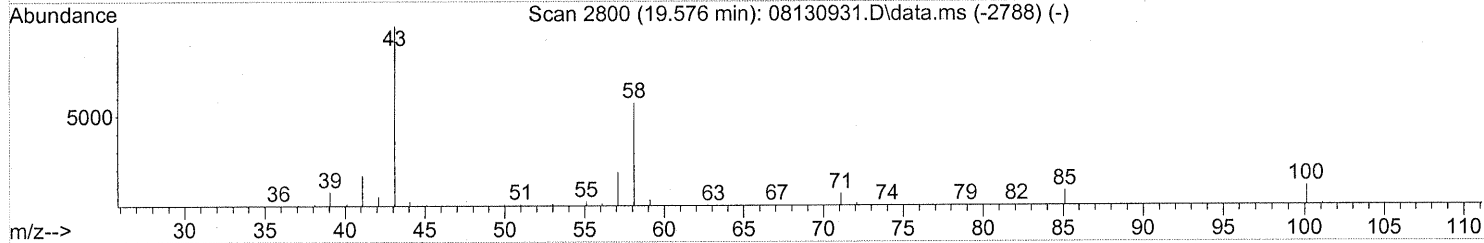
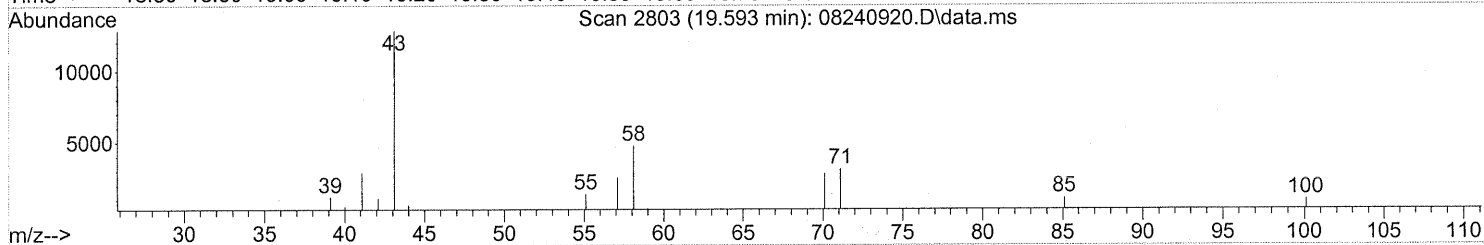
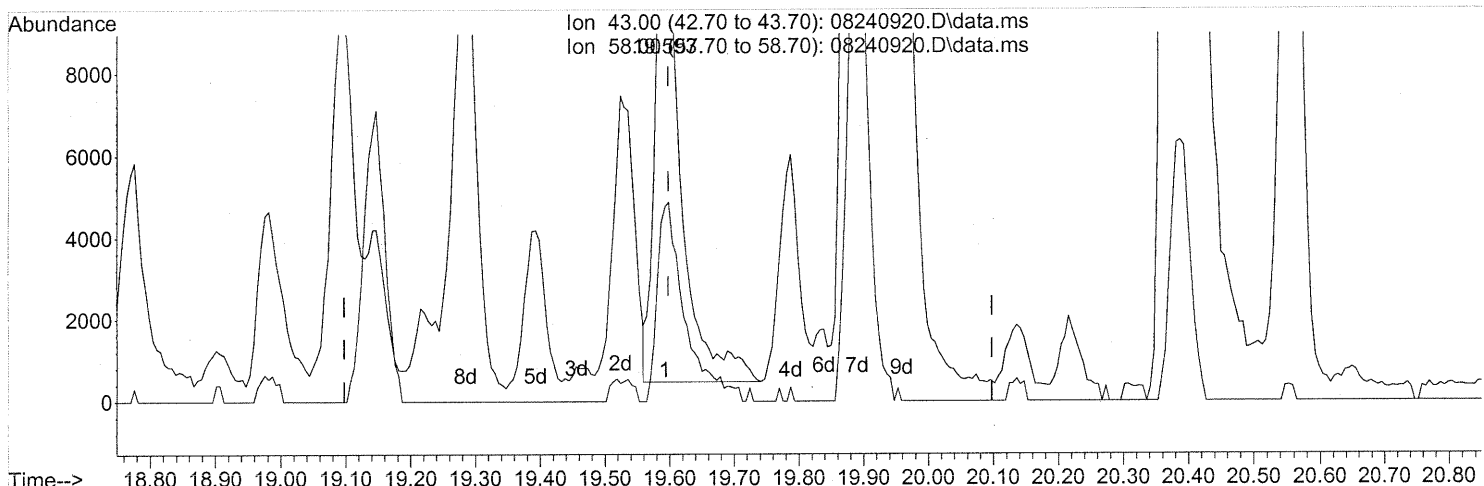
response 848252

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(59) 2-Hexanone (T)
 19.593min (-0.005) 0.66ng
 response 32640

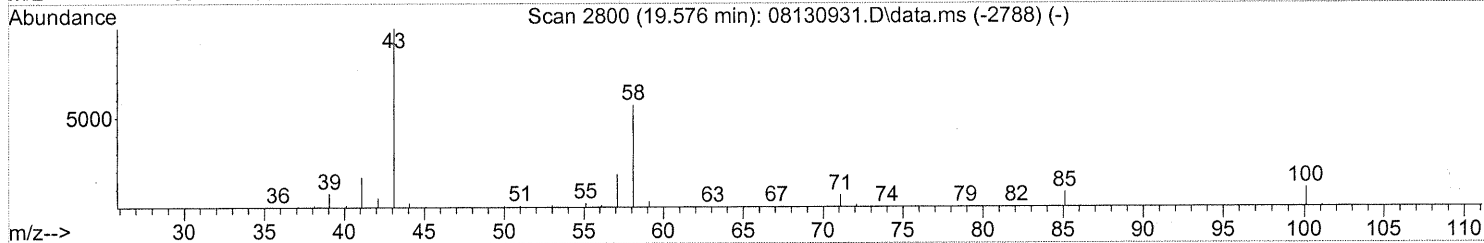
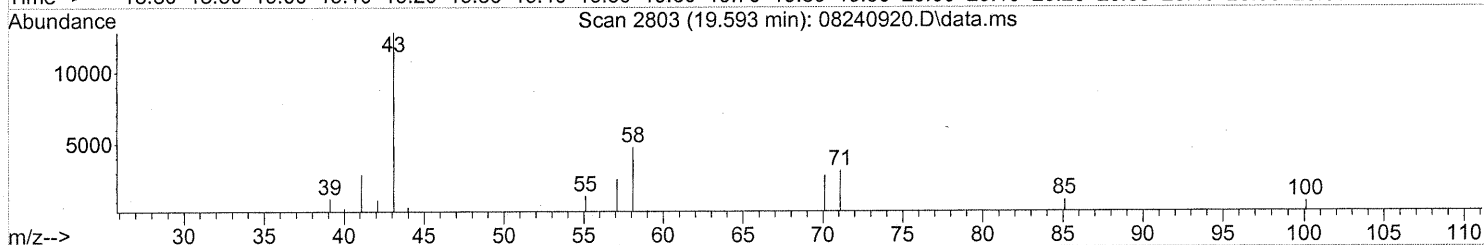
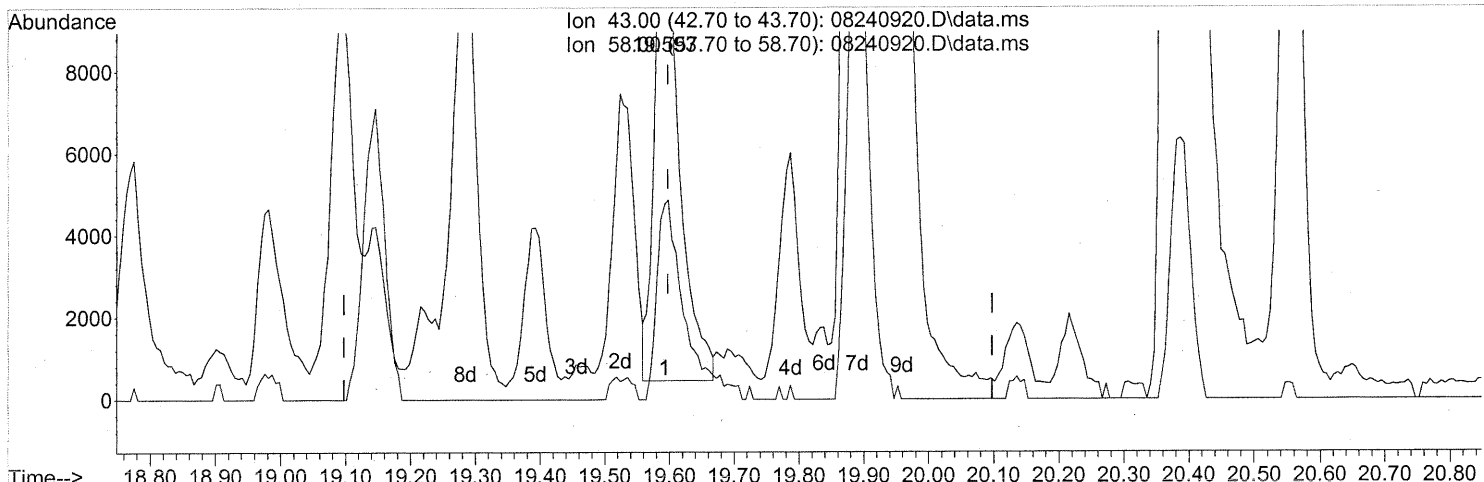
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	44.26
0.00	0.00	0.00
0.00	0.00	0.00

IPI

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(59) 2-Hexanone (T)
 19.593min (-0.005) 0.62ng m
 response 30751

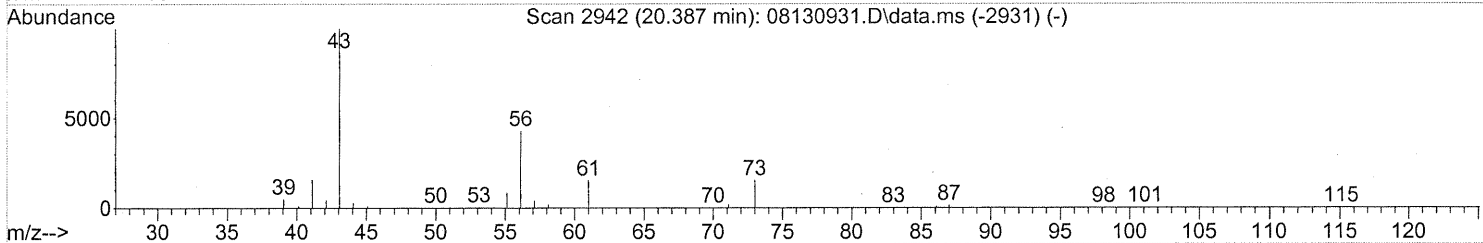
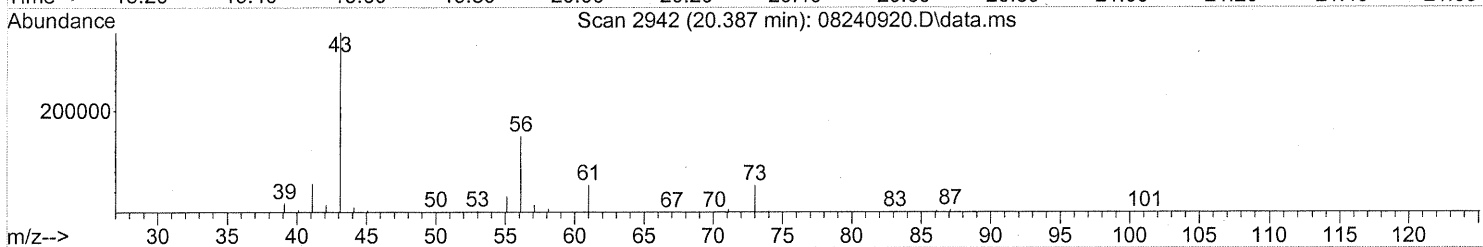
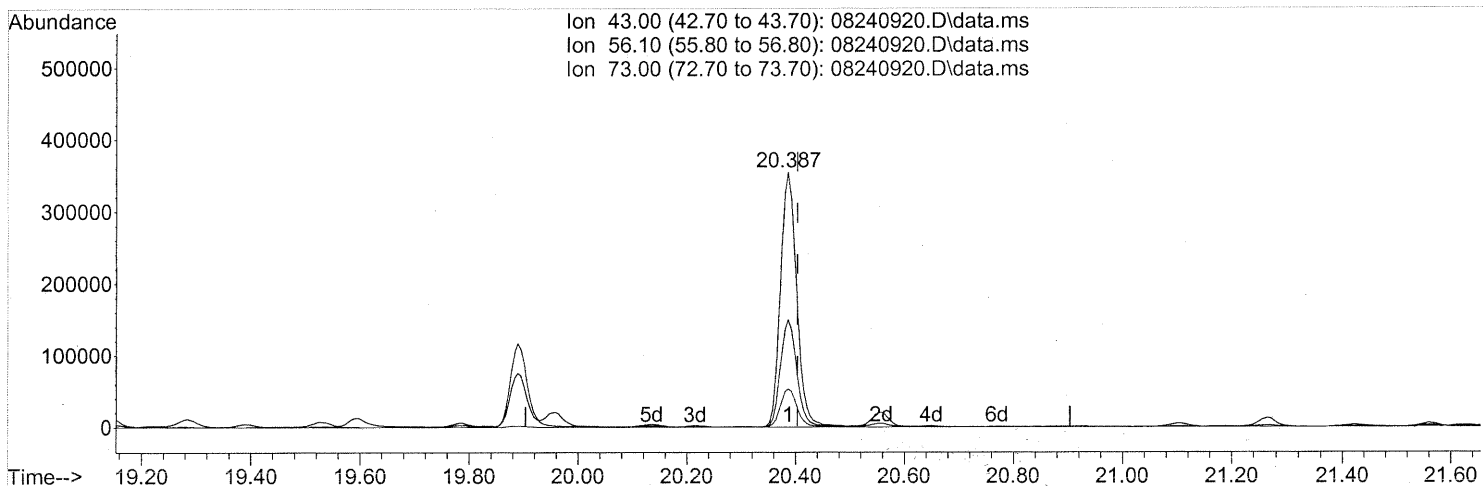
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	46.97
0.00	0.00	0.00
0.00	0.00	0.00

Handwritten notes:
 IPI → IC
 em 8/28/09
 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

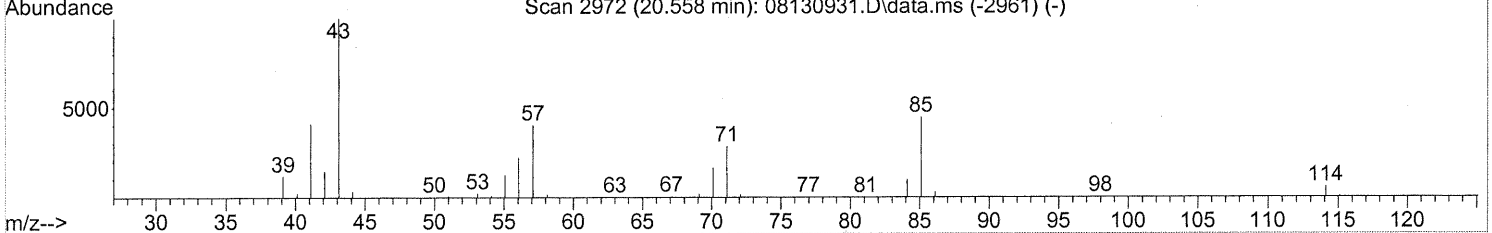
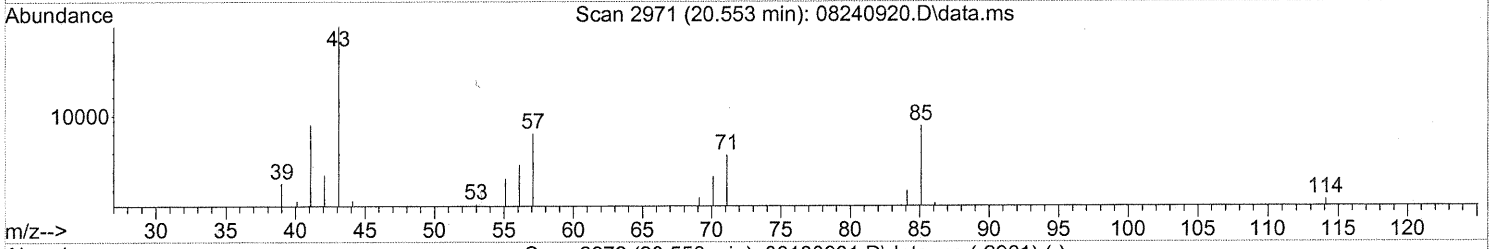
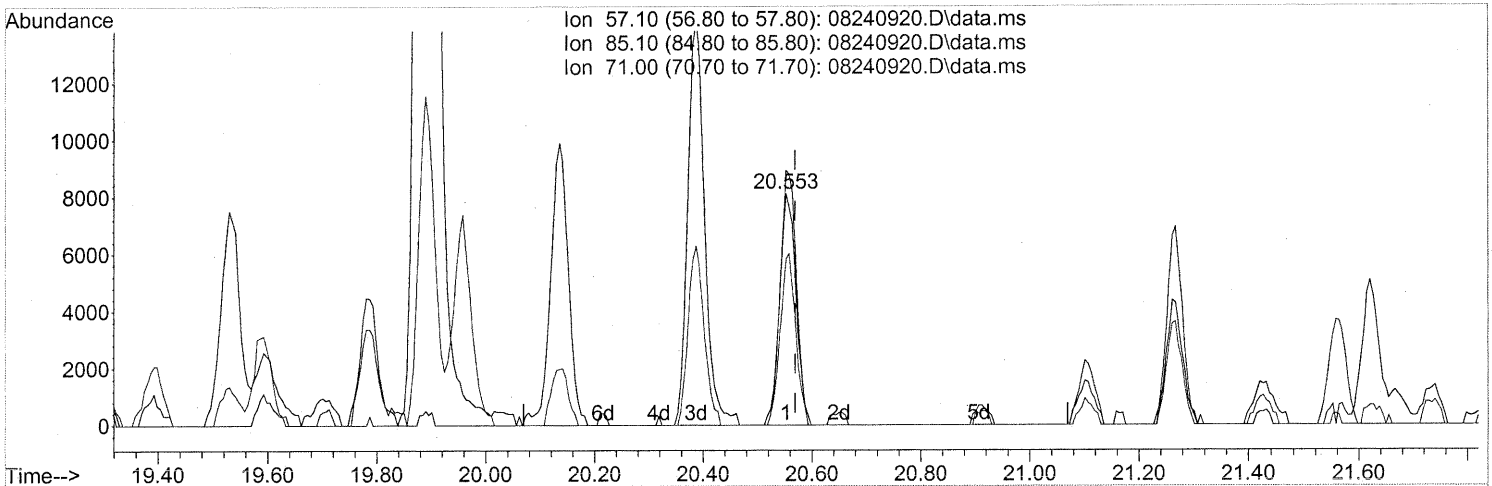
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 13.56ng
 response 735665

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	42.69
73.00	16.90	15.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

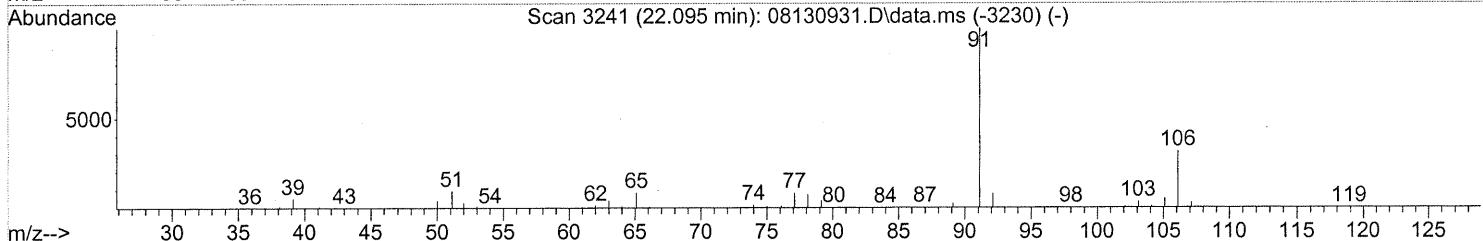
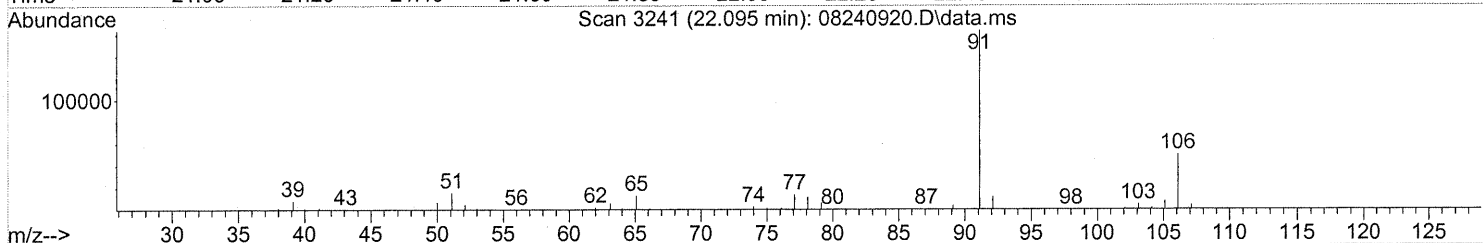
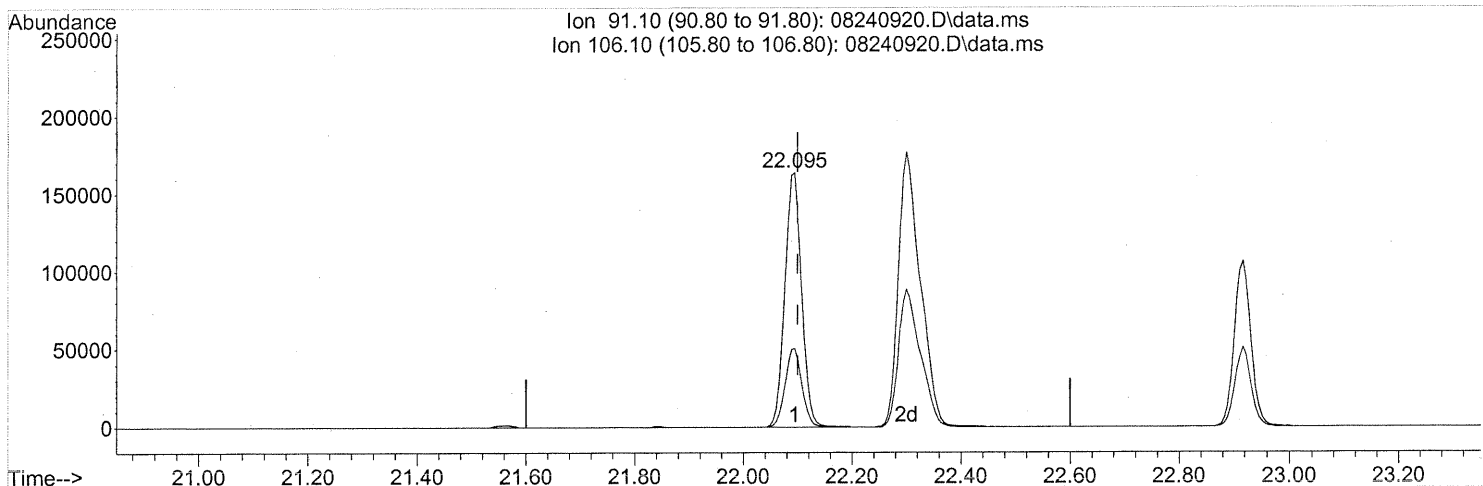
(63) n-Octane (T)
 20.553min (-0.017) 0.79ng
 response 16868

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	109.09
71.00	75.10	70.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

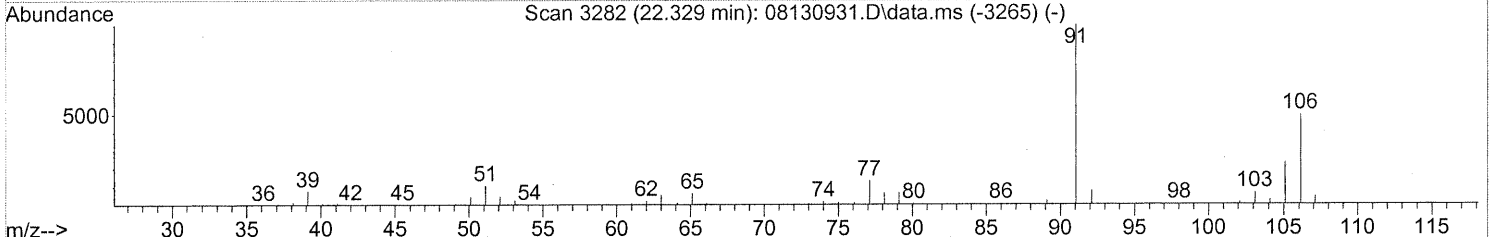
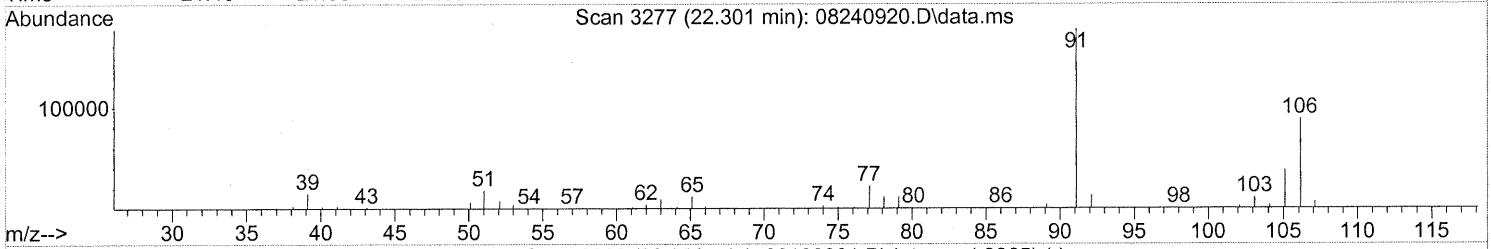
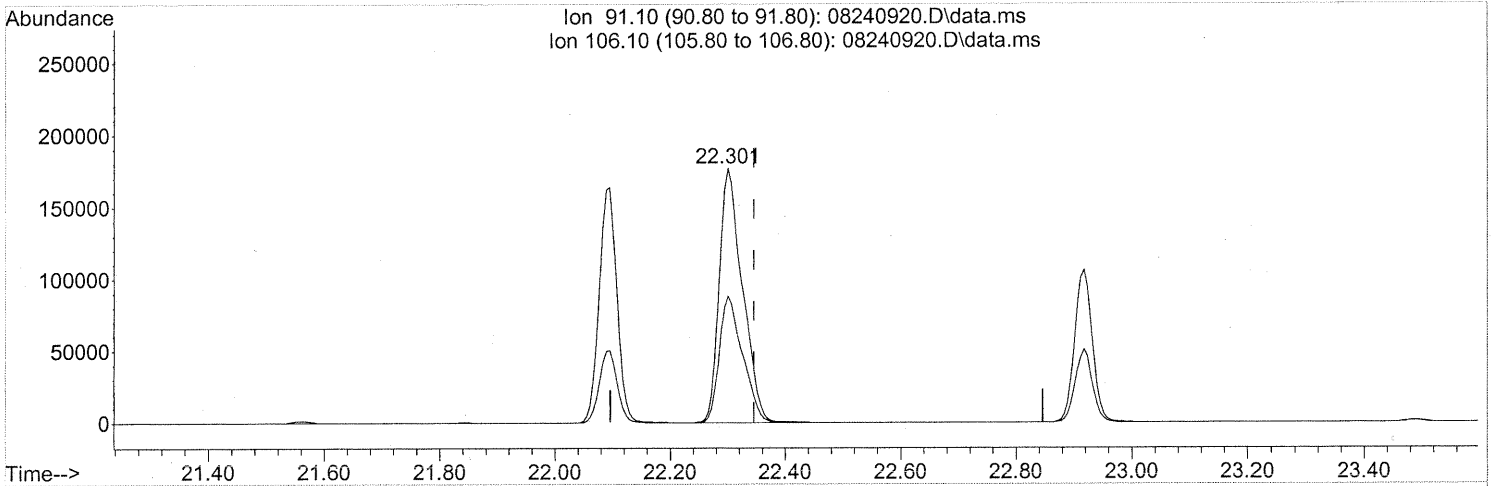
(66) Ethylbenzene (T)
 22.095min (-0.006) 3.37ng
 response 347759

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240920.D
Acq On : 24 Aug 2009 21:52
Operator : EM
Sample : P0902832-003 (1000ml)
Misc : Eng. H&E 101653
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08240920.D\data.ms

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

22.301min (-0.046) 6.05ng

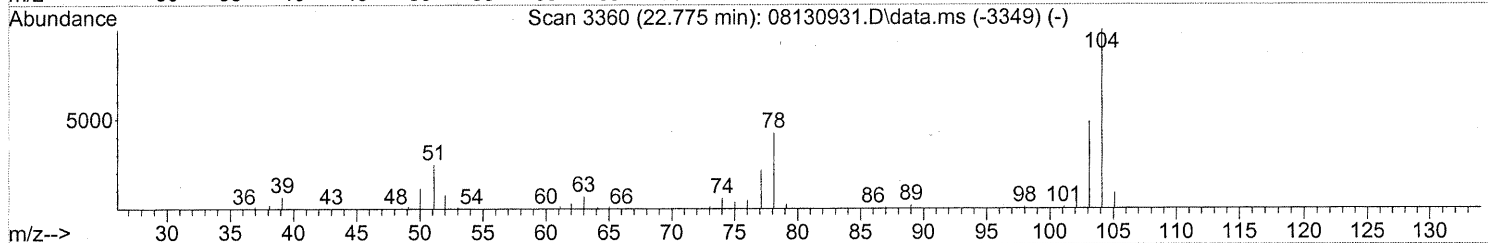
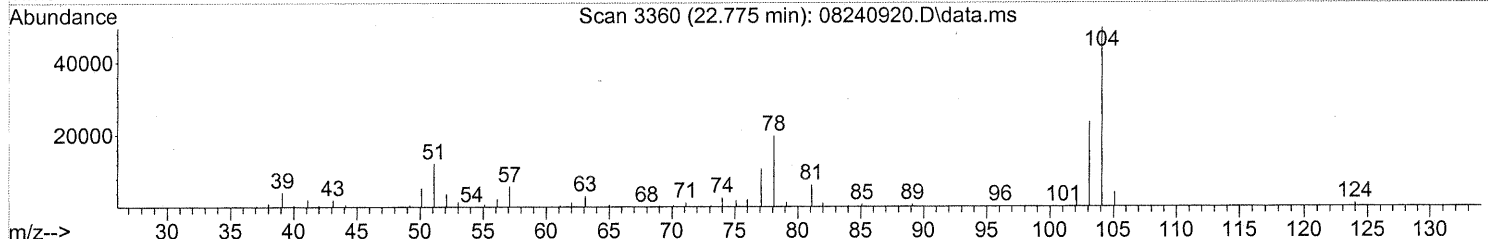
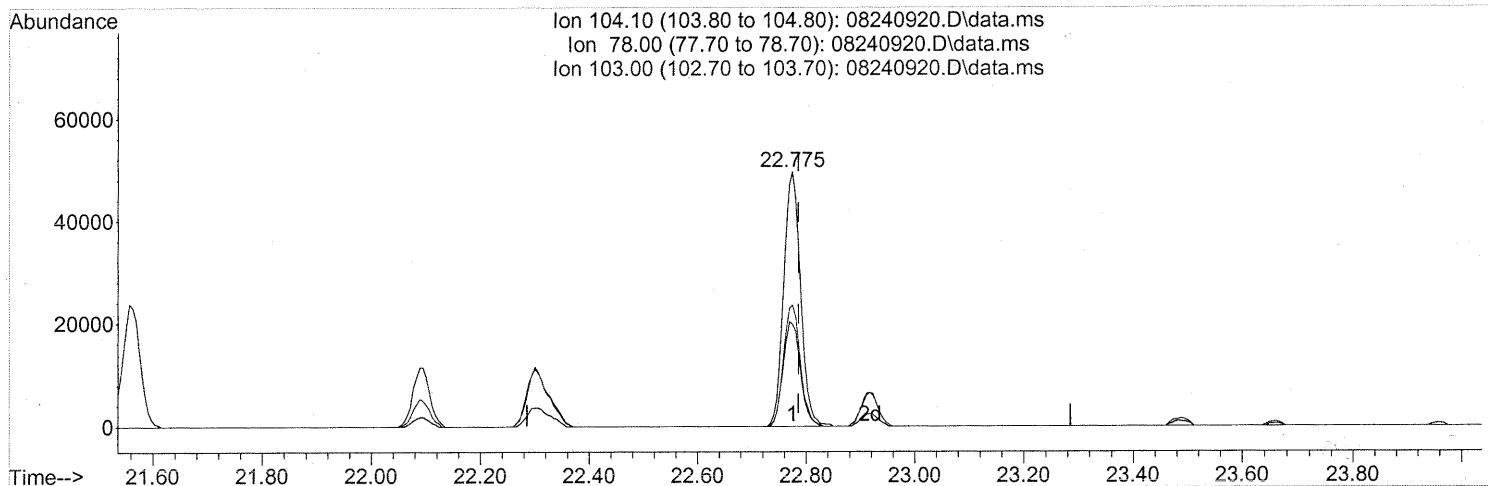
response 495373

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

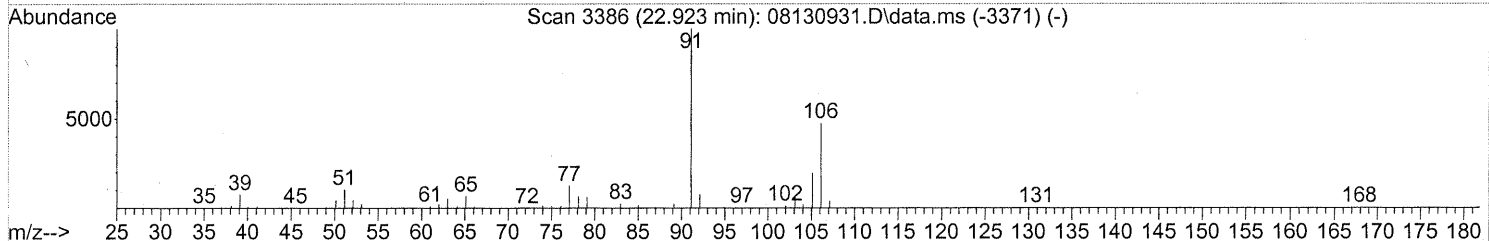
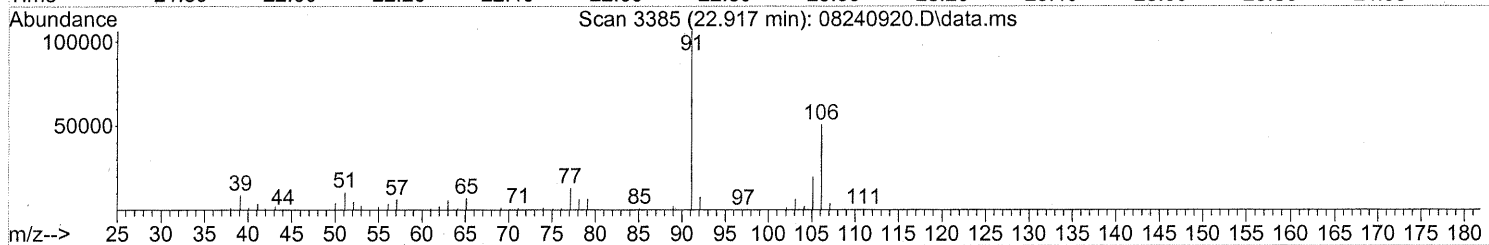
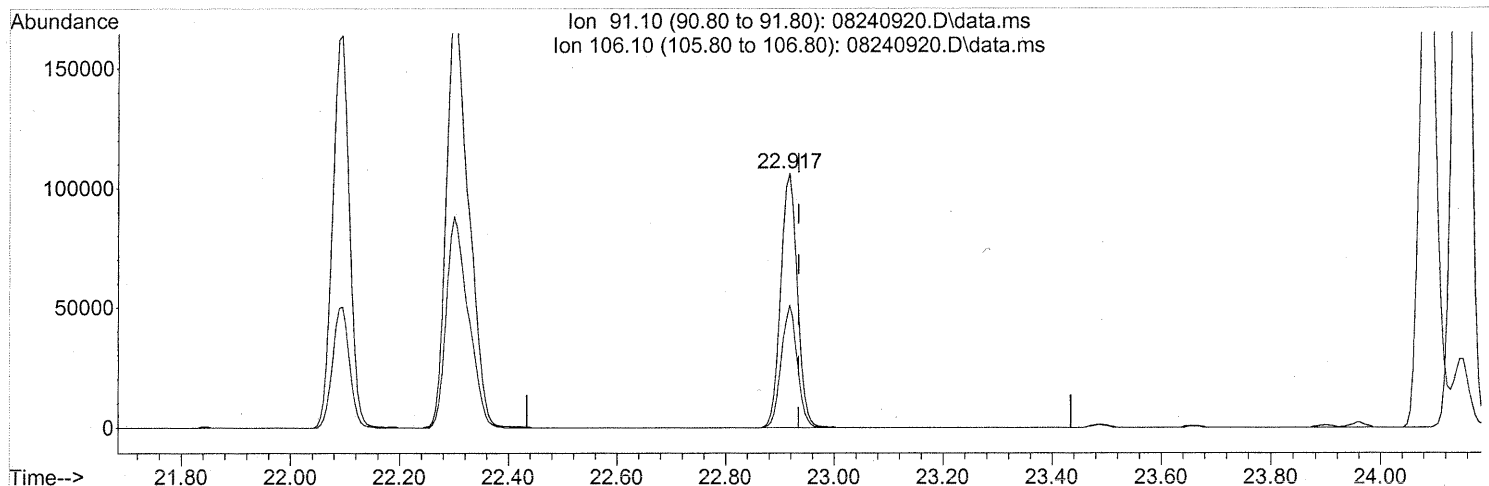
(69) Styrene (T)
 22.775min (-0.011) 1.75ng
 response 106160

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.96
103.00	48.70	47.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(70) o-Xylene (T)

22.917min (-0.017) 2.72ng

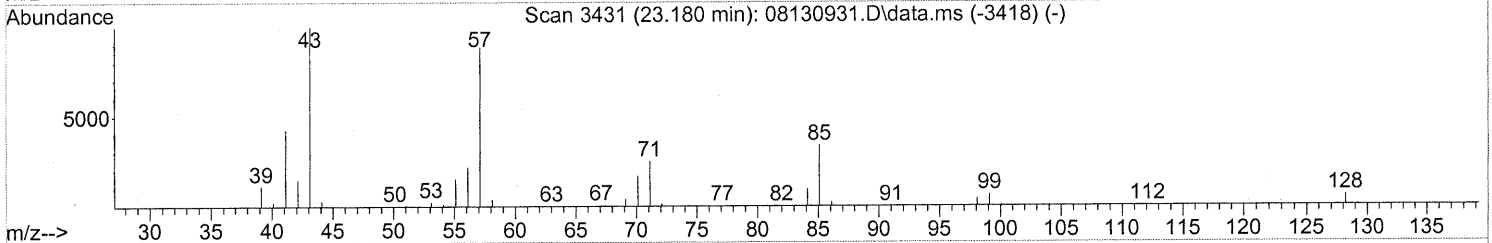
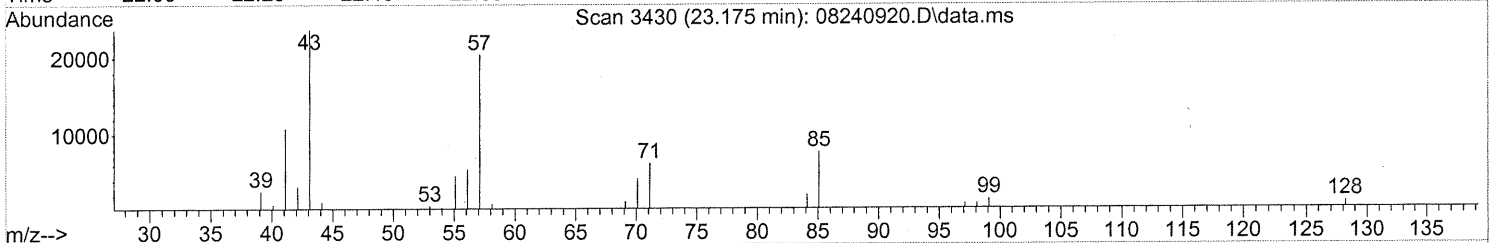
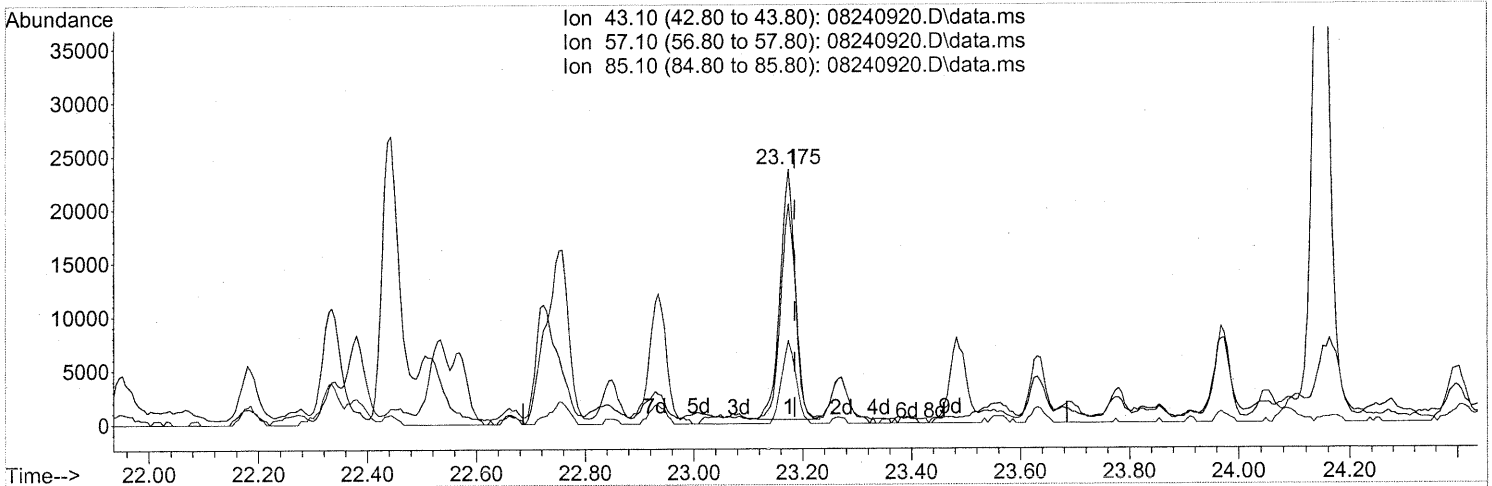
response 224316

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

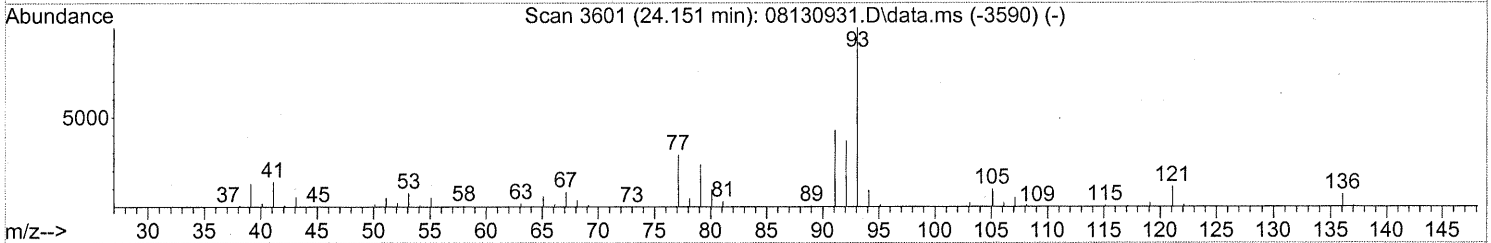
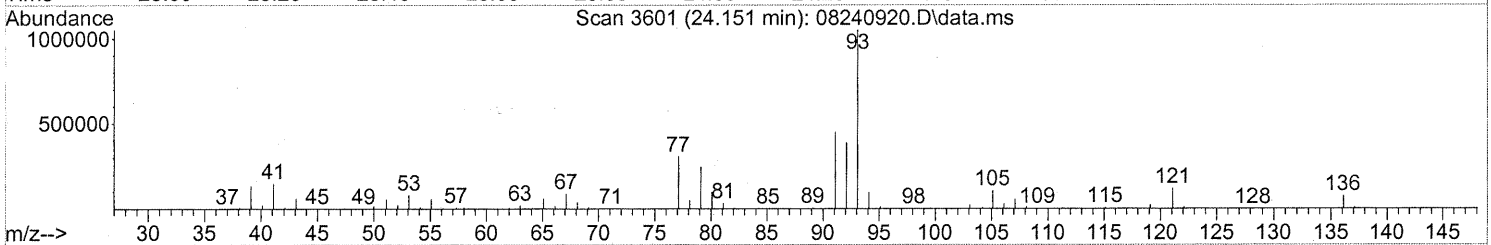
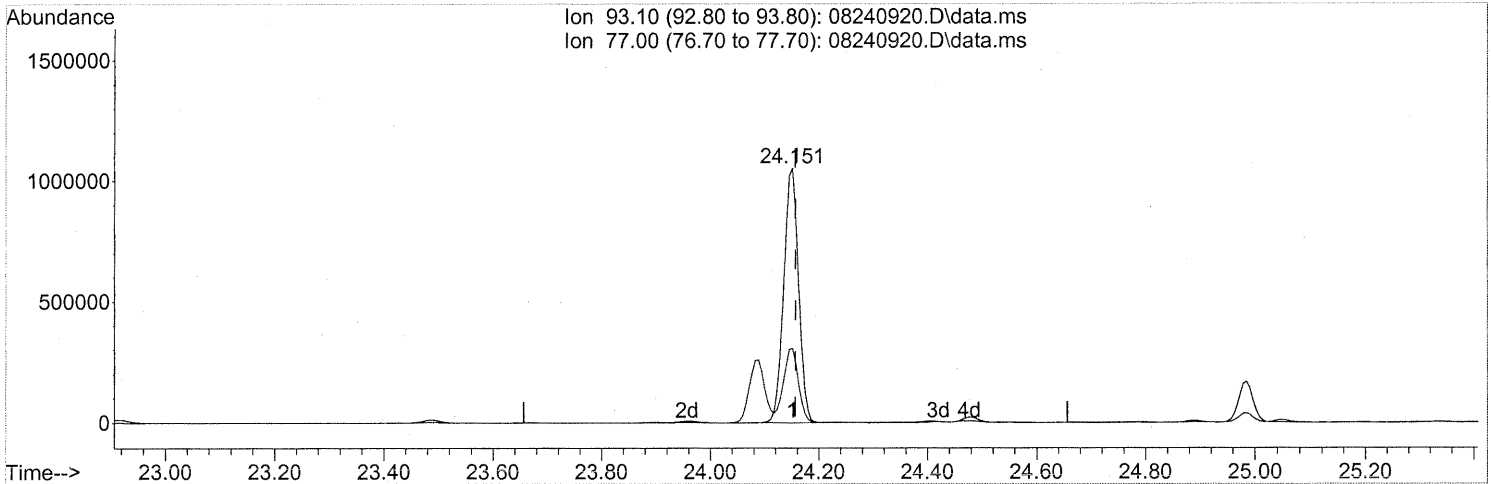
(71) n-Nonane (T)
 23.175min (-0.011) 0.91ng
 response 45349

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	83.01
85.10	38.80	30.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

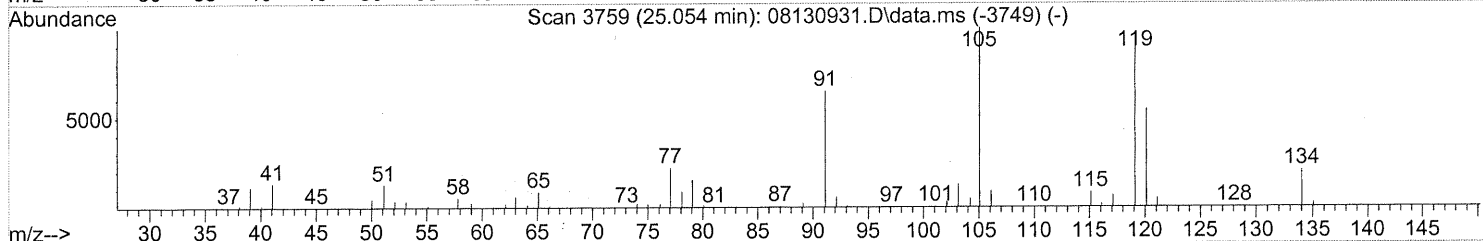
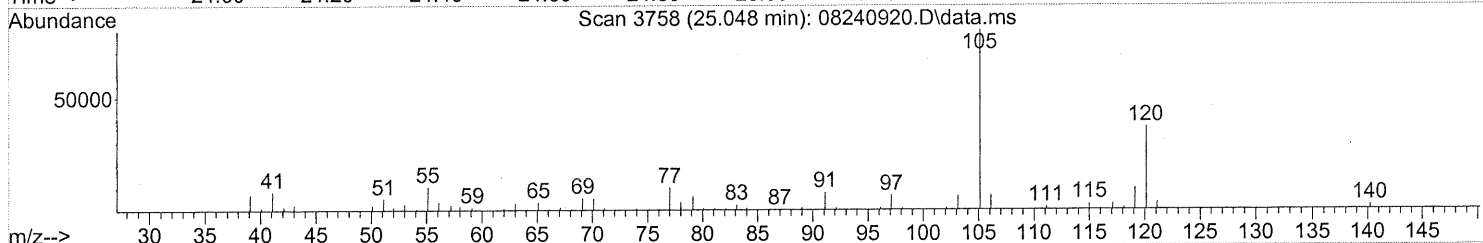
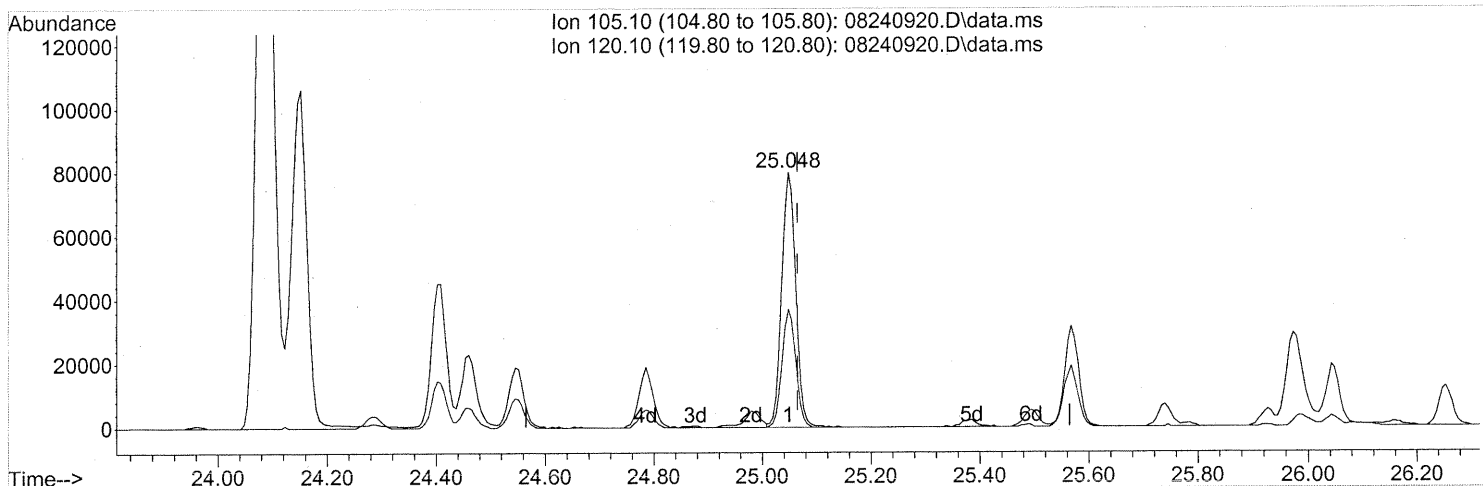
(75) alpha-Pinene (T)
 24.151min (-0.006) 37.55ng
 response 1978065

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

25.048min (-0.017) 1.62ng

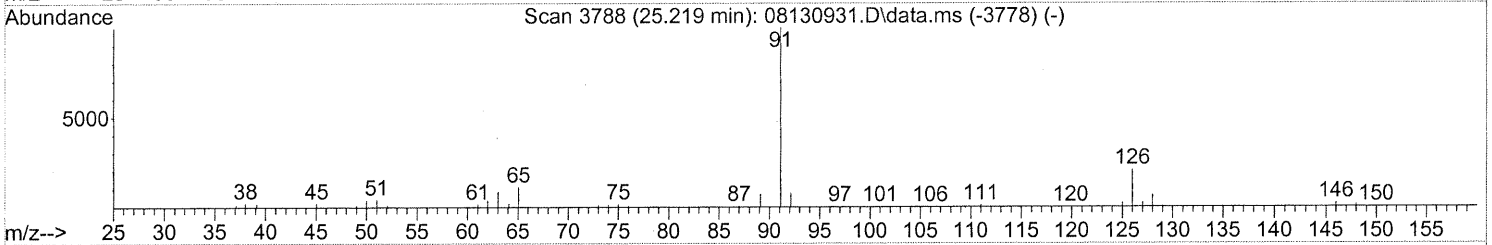
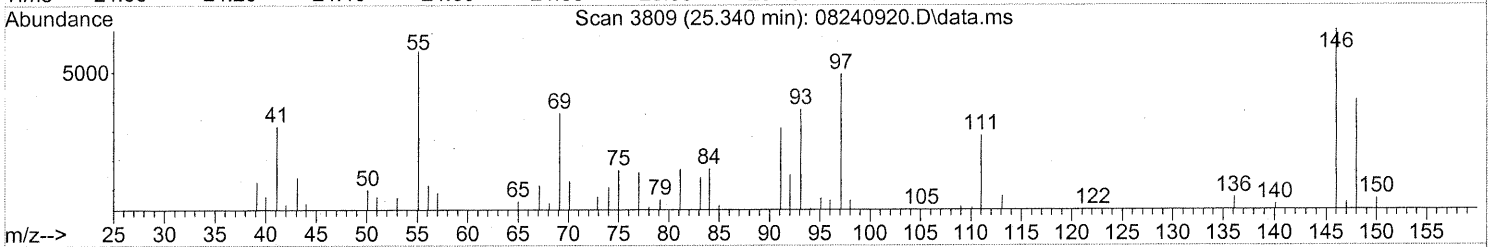
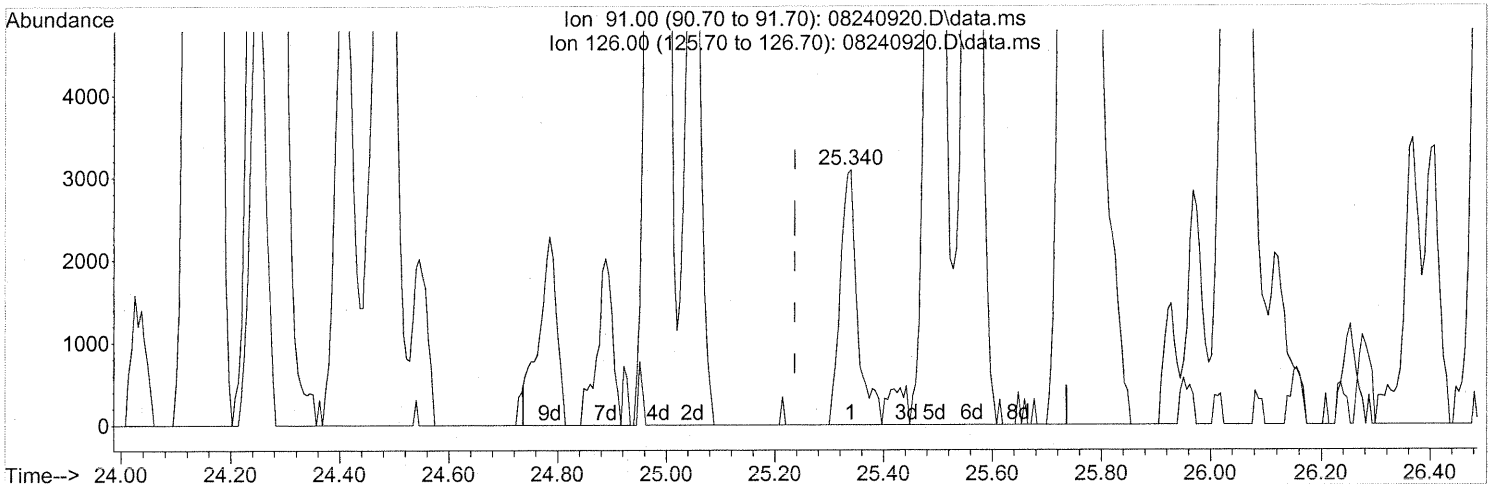
response 143041

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	45.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(84) Benzyl Chloride (T)
 25.340min (+0.103) 0.10ng
 response 6831

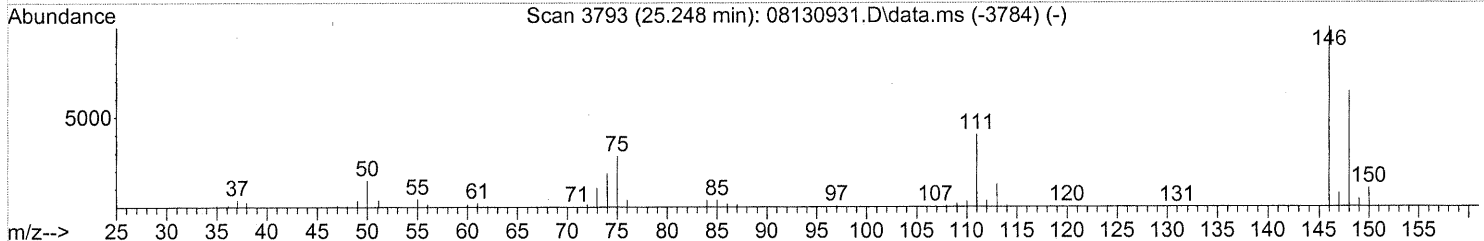
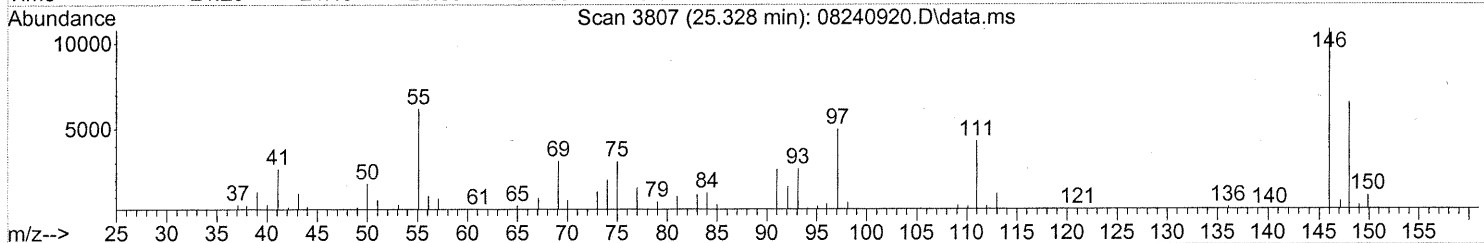
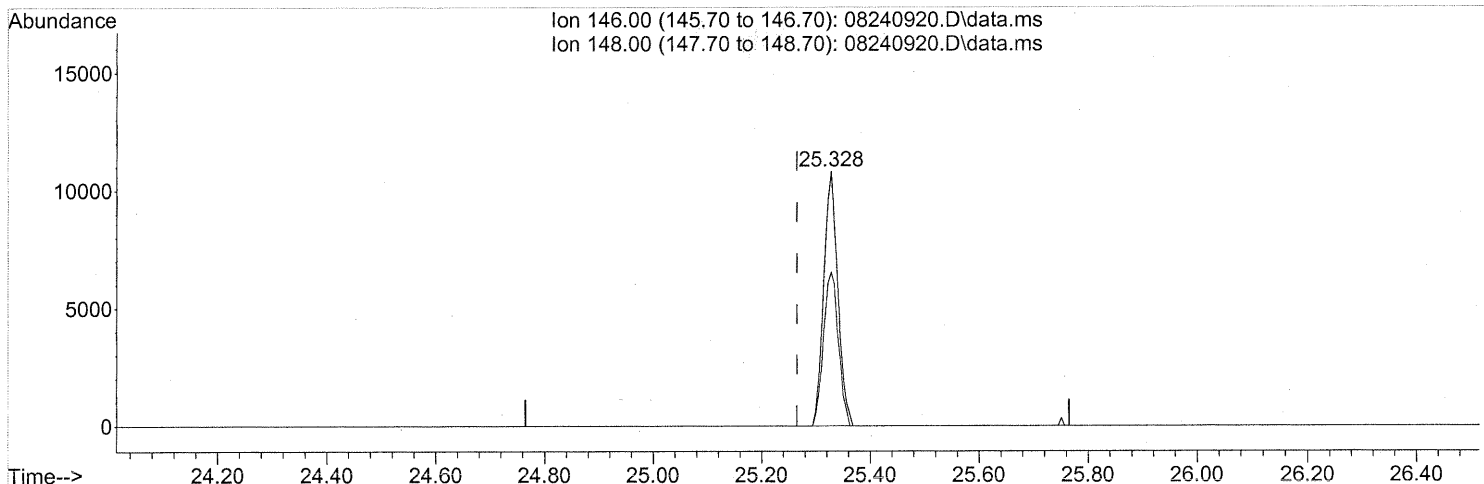
Ion	Exp%	Act%
91.00	100	100
126.00	21.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/28/09
@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.328min (+0.063) 0.42ng

response 19415

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	64.04
0.00	0.00	0.00
0.00	0.00	0.00

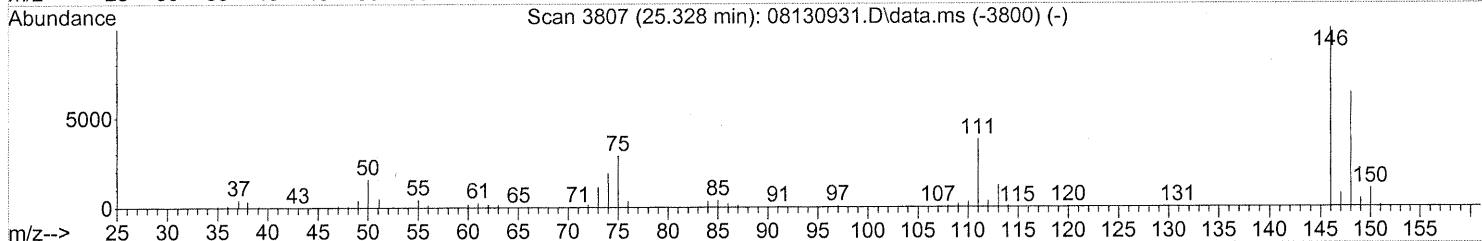
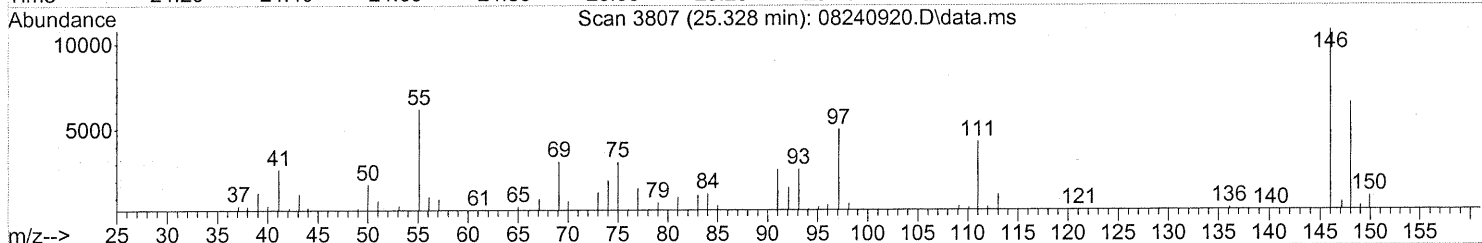
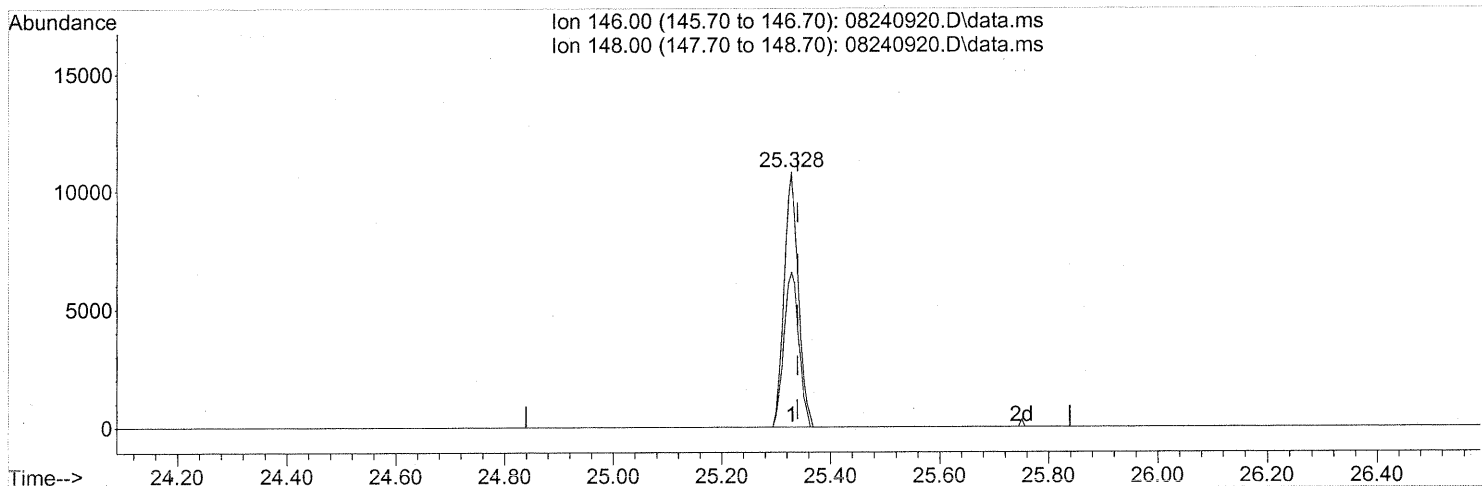
FP Em 8/28/09

8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.40ng

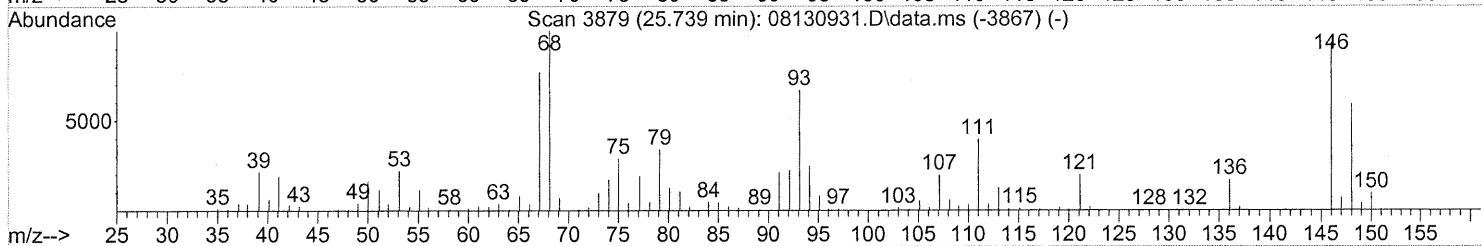
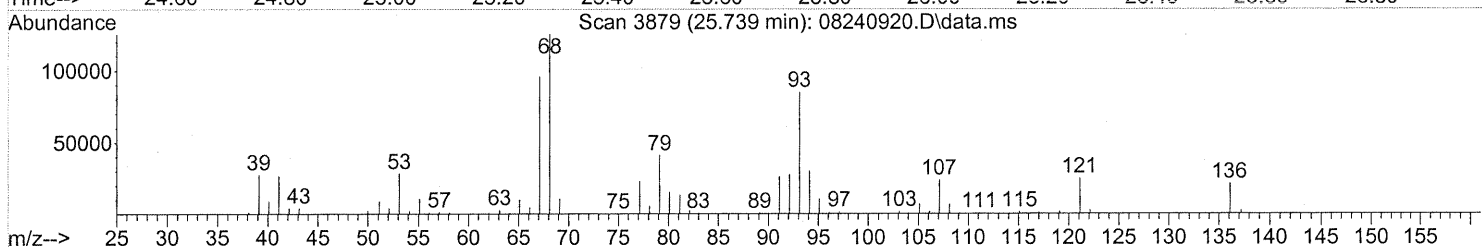
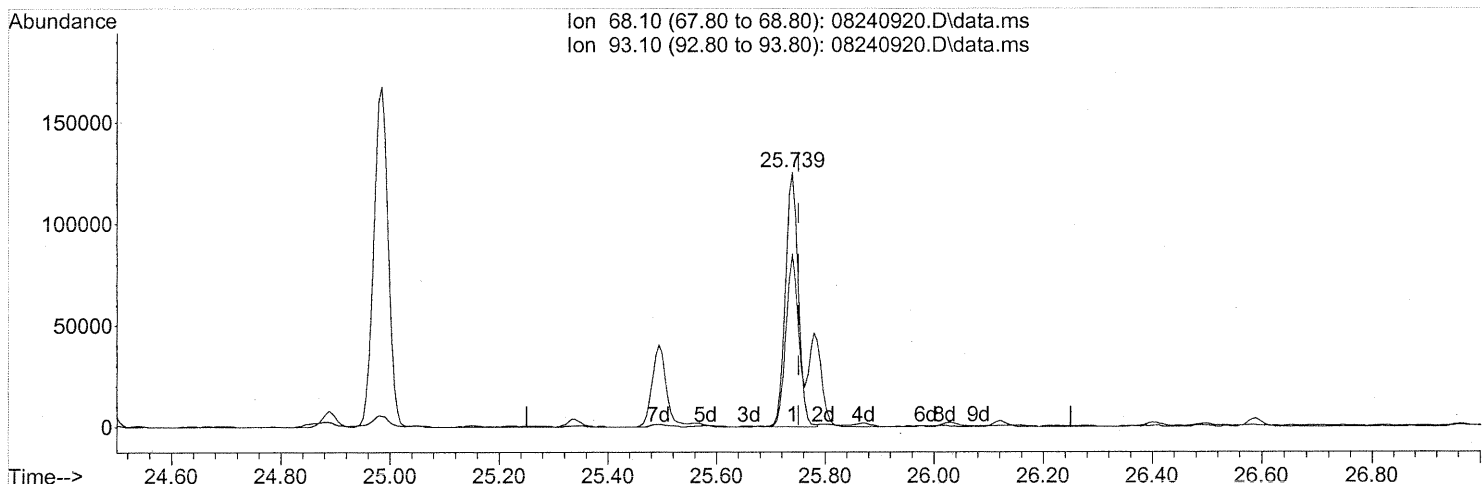
response 19415

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	64.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

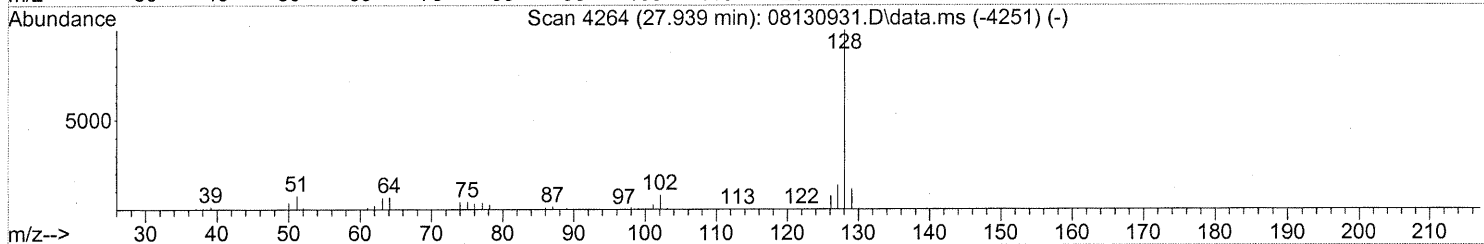
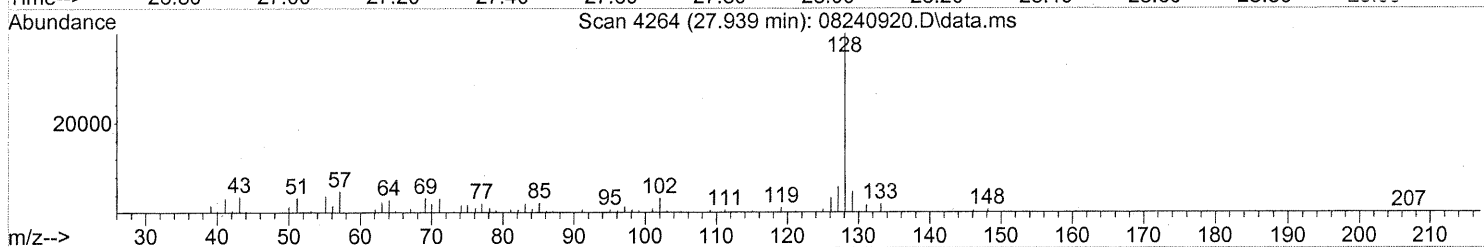
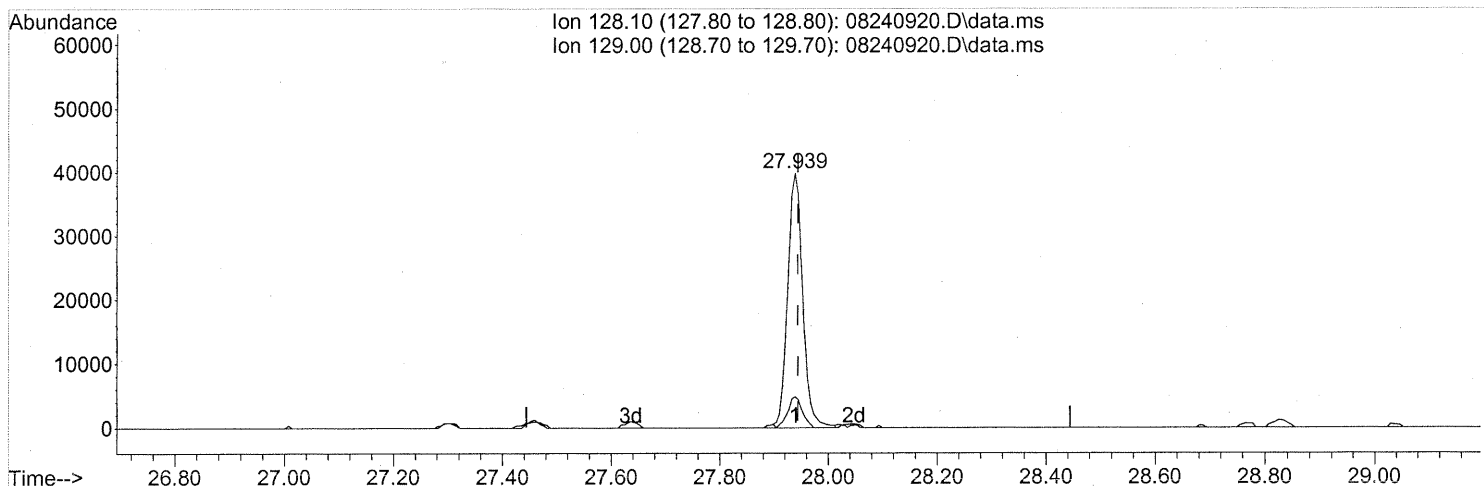
(91) d-Limonene (T)
 25.739min (-0.011) 5.71ng
 response 206153

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	68.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240920.D
 Acq On : 24 Aug 2009 21:52
 Operator : EM
 Sample : P0902832-003 (1000ml)
 Misc : Eng. H&E 101653
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 13:41:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240920.D\data.ms

(95) Naphthalene (T)

27.939min (-0.006) 0.65ng

response 76787

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	11.51
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, Inc.
Client Sample ID: 101657
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01007

CAS Project ID: P0902832
 CAS Sample ID: P0902832-004

Date Collected: 8/13/09
 Date Received: 8/18/09
 Date Analyzed: 8/24/09
 Volume(s) Analyzed: 1.00 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
115-07-1	Propene	ND	0.75	ND	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.75	0.48	0.15	
74-87-3	Chloromethane	0.65	0.15	0.31	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	ND	0.15	ND	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	Ethanol	350	7.5	190	4.0	
75-05-8	Acetonitrile	210	0.75	130	0.44	E
107-02-8	Acrolein	5.3	0.75	2.3	0.33	
67-64-1	Acetone	69	7.5	29	3.1	
75-69-4	Trichlorofluoromethane	1.1	0.15	0.20	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.3	0.75	2.2	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	ND	0.75	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.048	
76-13-1	Trichlorotrifluoroethane	0.54	0.15	0.070	0.019	
75-15-0	Carbon Disulfide	1.9	0.75	0.60	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)	3.8	0.75	1.3	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.

E = Estimated; concentration exceeded calibration range.



COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101657
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01007

CAS Project ID: P0902832
CAS Sample ID: P0902832-004

Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/24/09
Volume(s) Analyzed: 1.00 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	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
141-78-6	Ethyl Acetate	4.0	1.5	1.1	0.41	
110-54-3	n-Hexane	2.9	0.75	0.82	0.21	
67-66-3	Chloroform	1.2	0.15	0.24	0.031	
109-99-9	Tetrahydrofuran (THF)	0.86	0.75	0.29	0.25	
107-06-2	1,2-Dichloroethane	0.27	0.15	0.067	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	1.3	0.15	0.42	0.047	
56-23-5	Carbon Tetrachloride	0.38	0.15	0.060	0.024	
110-82-7	Cyclohexane	0.87	0.75	0.25	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	1.5	ND	0.36	
142-82-5	n-Heptane	1.8	0.75	0.45	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	ND	0.16	
108-10-1	4-Methyl-2-pentanone	15	0.75	3.8	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	13	0.75	3.4	0.20	
591-78-6	2-Hexanone	1.2	0.75	0.30	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	22	0.75	4.7	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: _____

9/10/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101657
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P0902832-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01007

Date Collected: 8/13/09
 Date Received: 8/18/09
 Date Analyzed: 8/24/09
 Volume(s) Analyzed: 1.00 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	1.7	0.75	0.36	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	4.7	0.75	1.1	0.17	
179601-23-1	m,p-Xylenes	8.8	0.75	2.0	0.17	
75-25-2	Bromoform	ND	0.75	ND	0.072	
100-42-5	Styrene	3.2	0.75	0.75	0.18	
95-47-6	o-Xylene	3.9	0.75	0.90	0.17	
111-84-2	n-Nonane	1.2	0.75	0.24	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	57	0.75	10	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	2.4	0.75	0.49	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	0.53	0.15	0.089	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	8.6	0.75	1.5	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	1.0	0.75	0.20	0.14	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

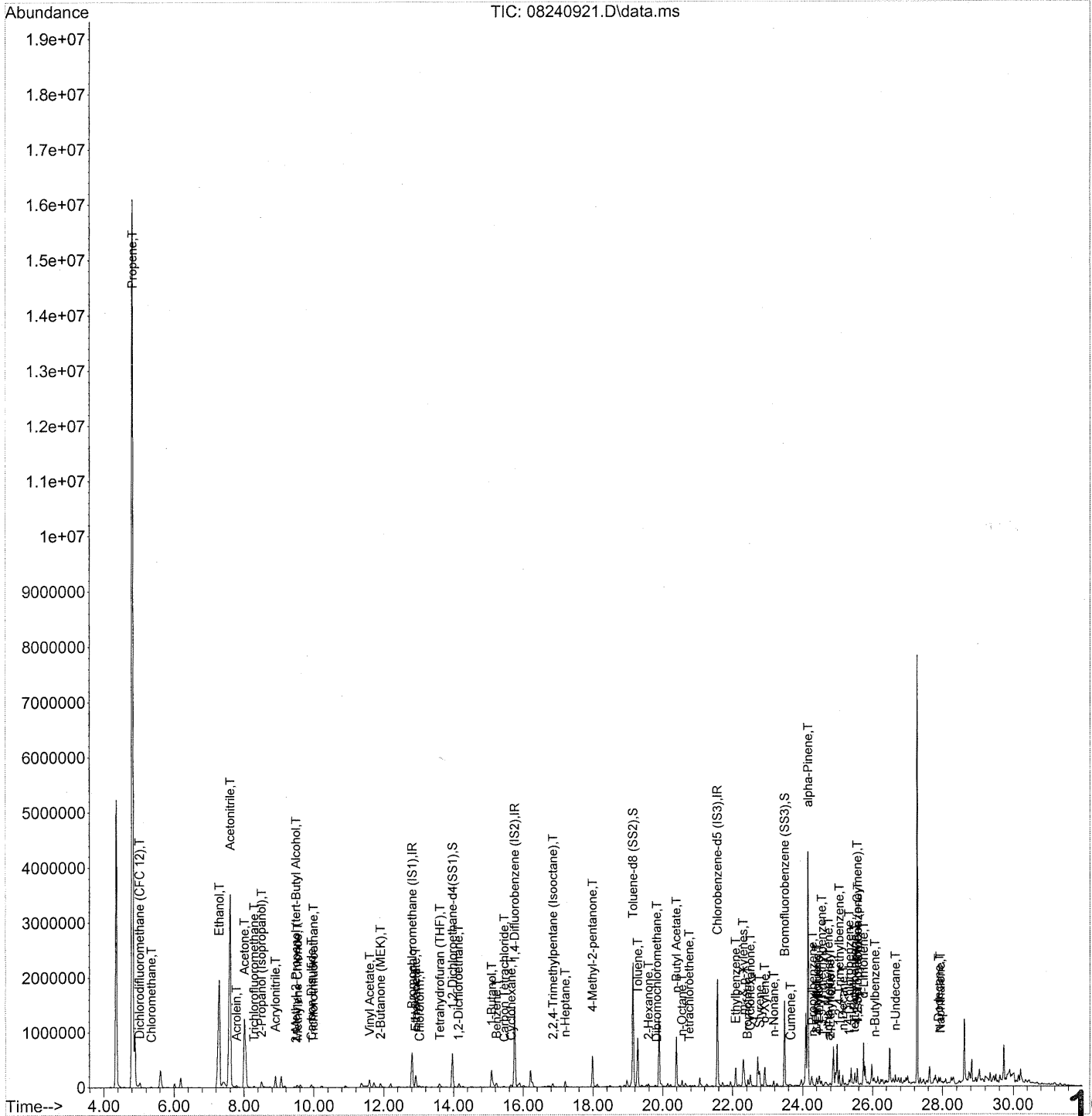
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: _____ Date: 8/31/09 **162**

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 27 13:55:17 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	345041	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1754041	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	831611	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	607143	24.886	ng	-0.02
Spiked Amount	25.000			Recovery =	99.56%	✓
57) Toluene-d8 (SS2)	19.15	98	2007856	25.397	ng	-0.01
Spiked Amount	25.000			Recovery =	101.60%	✓
73) Bromofluorobenzene (SS3)	23.49	174	558593	24.949	ng	0.00
Spiked Amount	25.000			Recovery =	99.80%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.81	42	15113	0.499 ng	#	1
3) Dichlorodifluoromethan...	5.01	85	68769	1.592 ng		99
4) Chloromethane	5.35	50	17450	0.433 ng		97
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1094	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	1008	N.D.		
8) Bromomethane	6.57	94	611	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.29	45	4493648m	236.682 ng		
11) Acetonitrile	7.60	41	6650328	143.529 ng	E	99
12) Acrolein	7.79	56	43682	3.528 ng		99
13) Acetone	8.01	58	895365	46.343 ng		93
14) Trichlorofluoromethane	8.29	101	28299	0.766 ng		100
15) 2-Propanol (Isopropanol)	8.50	45	188910m	3.570 ng		
16) Acrylonitrile	8.90	53	3780	0.135 ng	#	26
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	17619	0.328 ng	#	65
19) Methylene Chloride	9.53	84	5957	0.247 ng		82
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D. d		
21) Trichlorotrifluoroethane	9.98	151	5947	0.360 ng		97
22) Carbon Disulfide	9.93	76	106877	1.256 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	11.36	73	451	N.D.		
26) Vinyl Acetate	11.60	86	14452	3.454 ng	#	40
27) 2-Butanone (MEK)	11.90	72	34375	2.552 ng	#	89
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.92	87	699	N.D.		
30) Ethyl Acetate	12.92	61	23635	2.706 ng		95
31) n-Hexane	12.92	57	82531	1.938 ng		9164

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	27975	0.785 ng		100
34) Tetrahydrofuran (THF)	13.61	72	8104	0.579 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.14	62	4938	0.181 ng		86
38) 1,1,1-Trichloroethane	14.53	97	826	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.09	56	308851	13.588 ng	#	79
41) Benzene	15.23	78	84837	0.899 ng		99
42) Carbon Tetrachloride	15.46	117	6671	0.253 ng		100
43) Cyclohexane	15.65	84	21390	0.586 ng		90
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.43	63	109	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.78	130	329	N.D.		
48) 1,4-Dioxane	16.74	88	121	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	56978	0.525 ng		86
50) Methyl Methacrylate	17.06	100	121	N.D.		
51) n-Heptane	17.21	71	31141	1.240 ng		92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.98	58	211573	10.379 ng		92
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	19.28	91	820367	8.560 ng		100
59) 2-Hexanone	19.59	43	40791	0.819 ng		90
60) Dibromochloromethane	19.83	129	1069	0.052 ng	#	62
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	816902	15.031 ng		99
63) n-Octane	20.55	57	24153	1.131 ng		86
64) Tetrachloroethene	20.75	166	2067	0.087 ng		99
65) Chlorobenzene	21.62	112	384	N.D.		
66) Ethylbenzene	22.09	91	326402	3.155 ng		97
67) m- & p-Xylenes	22.30	91	485053	5.913 ng		99
68) Bromoform	22.42	173	1117	0.063 ng	#	62
69) Styrene	22.77	104	129816	2.141 ng		100
70) o-Xylene	22.92	91	217059	2.630 ng		98
71) n-Nonane	23.17	43	41537	0.836 ng		90
72) 1,1,2,2-Tetrachloroethane	22.91	83	1704	N.D.		
74) Cumene	23.66	105	14794	0.138 ng		98
75) alpha-Pinene	24.15	93	2029342	38.442 ng		100
76) n-Propylbenzene	24.28	91	64585	0.488 ng		71
77) 3-Ethyltoluene	24.40	105	89025	0.888 ng		97
78) 4-Ethyltoluene	24.46	105	43620	0.433 ng		96
79) 1,3,5-Trimethylbenzene	24.55	105	35598	0.427 ng		96

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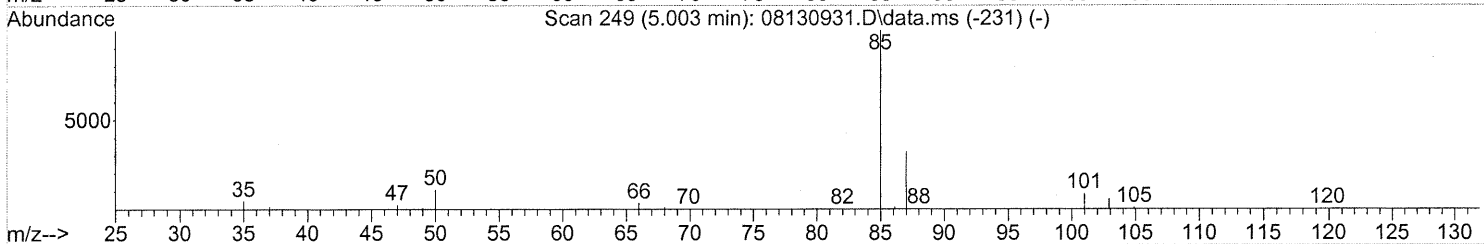
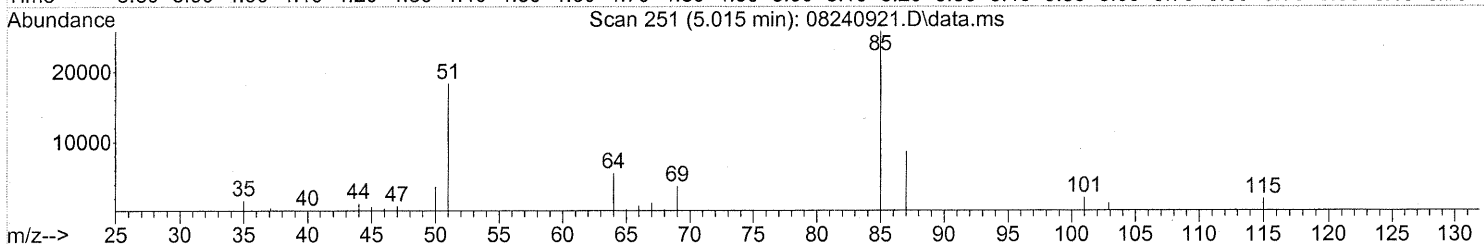
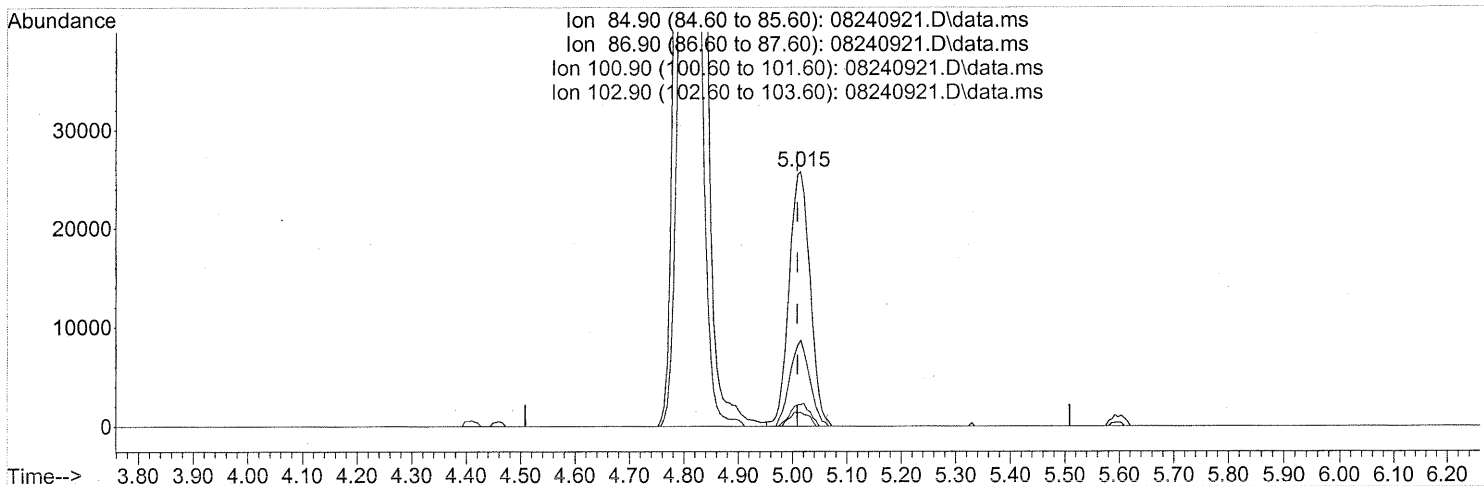
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	3069	0.068	ng	88
81) 2-Ethyltoluene	24.79	105	33275	0.321	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	143568	1.623	ng	88
83) n-Decane	25.15	57	74033	1.438	ng	95
84) Benzyl Chloride	25.22	91	333	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.33	146	17424	0.359	ng	99
87) sec-Butylbenzene	25.38	105	5397	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	127239	1.139	ng	97
89) 1,2,3-Trimethylbenzene	25.57	105	55836	0.624	ng	86
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.	d	
91) d-Limonene	25.74	68	208550	5.762	ng	93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	52629	0.989	ng	89
94) 1,2,4-Trichlorobenzene	27.79	180	134	N.D.		
95) Naphthalene	27.94	128	83548	0.704	ng	98
96) n-Dodecane	27.89	57	42232	0.709	ng	95
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	117024	3.877	ng	95
99) tert-Butylbenzene	25.48	119	8963	0.102	ng	97
100) n-Butylbenzene	26.07	91	46984	0.506	ng	# 49

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

Quantitation Report (Qedit)

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TIC: 08240921.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.015min (+0.006) 1.59ng

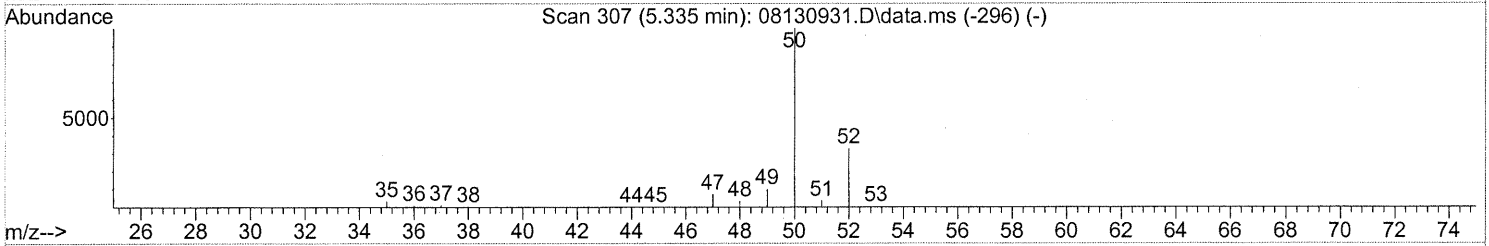
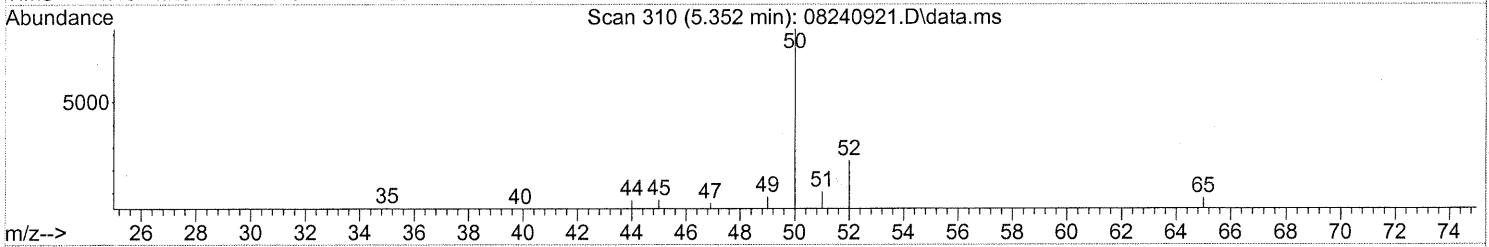
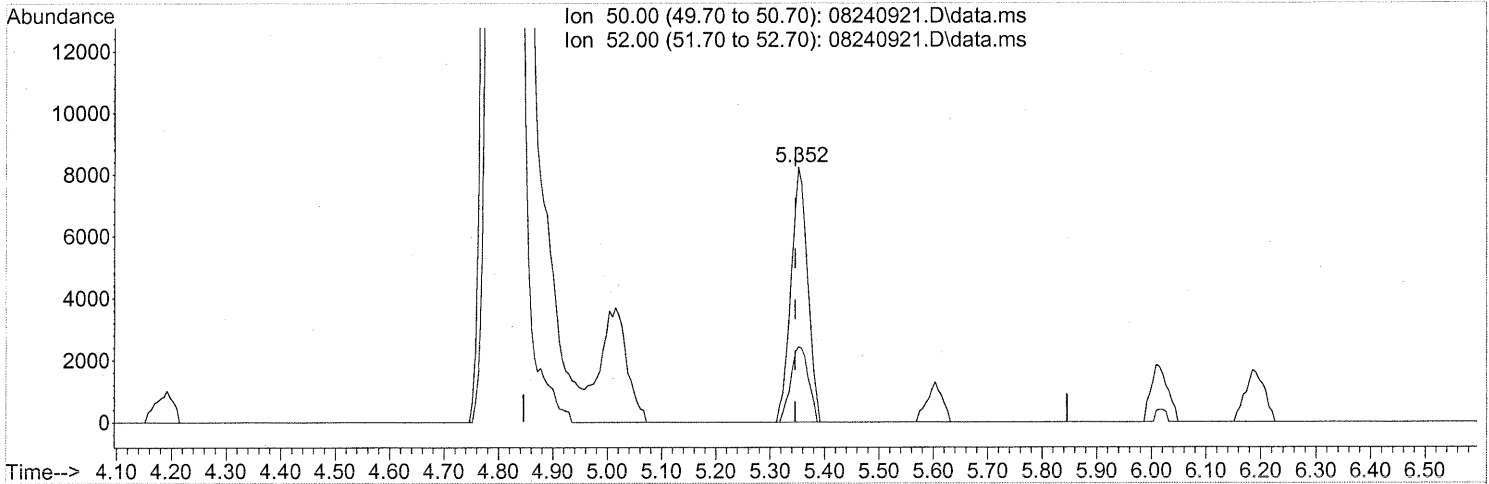
response 68769

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.92
100.90	9.10	8.15
102.90	5.50	4.93

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(4) Chloromethane (T)

5.352min (+0.006) 0.43ng

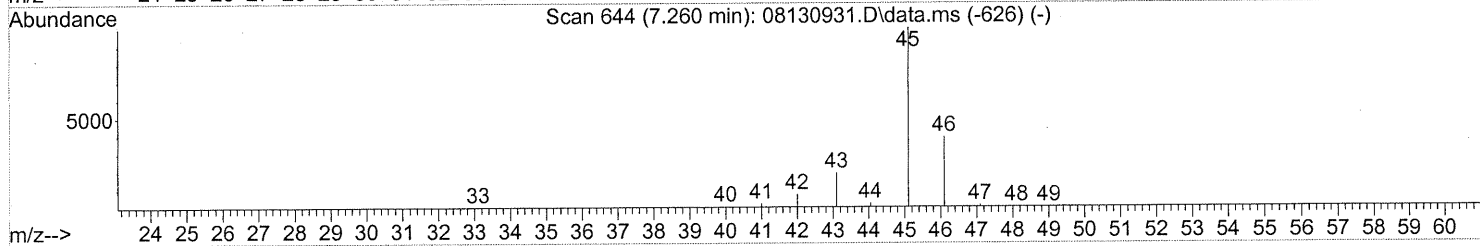
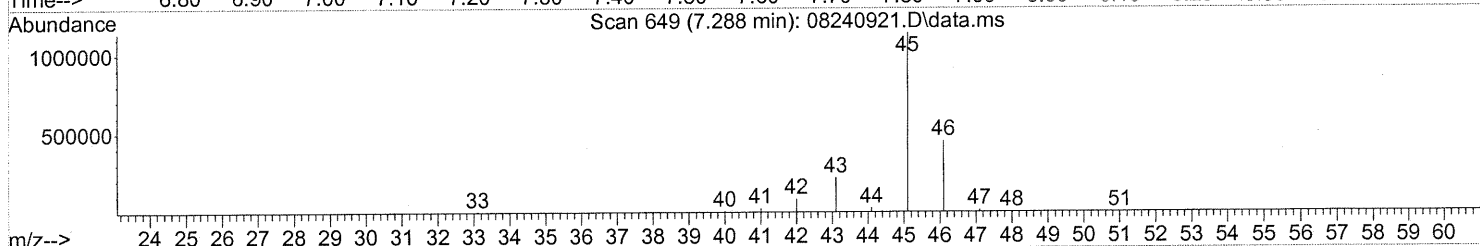
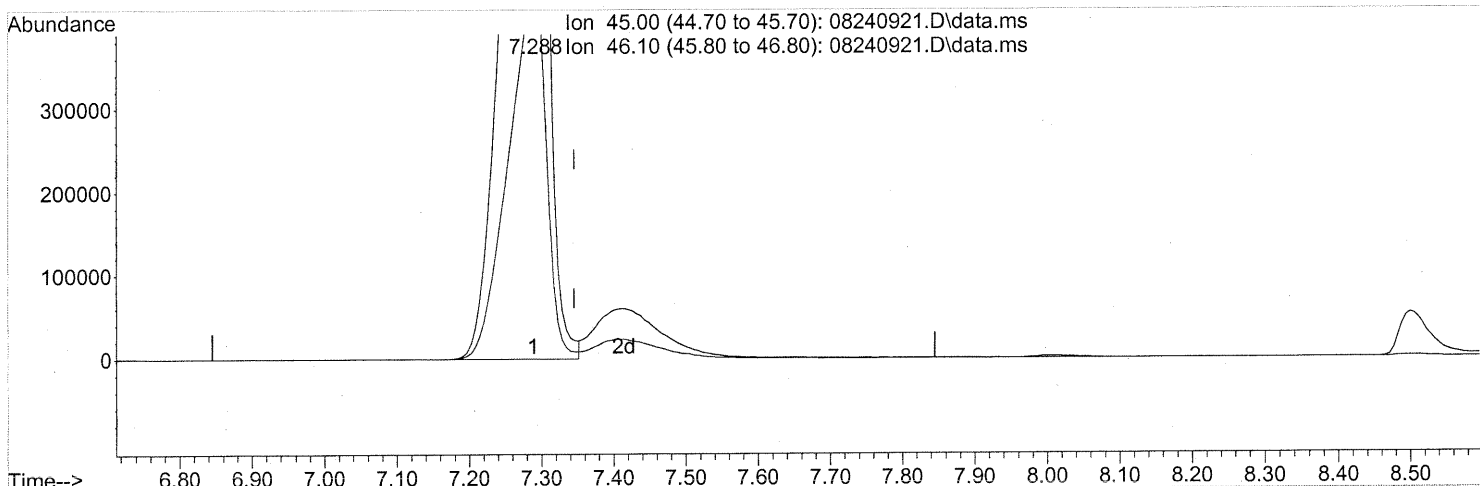
response 17450

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.25
0.00	0.00	0.00
0.00	0.00	0.00

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(10) Ethanol (T)

7.288min (-0.057) 216.27ng

response 4106160

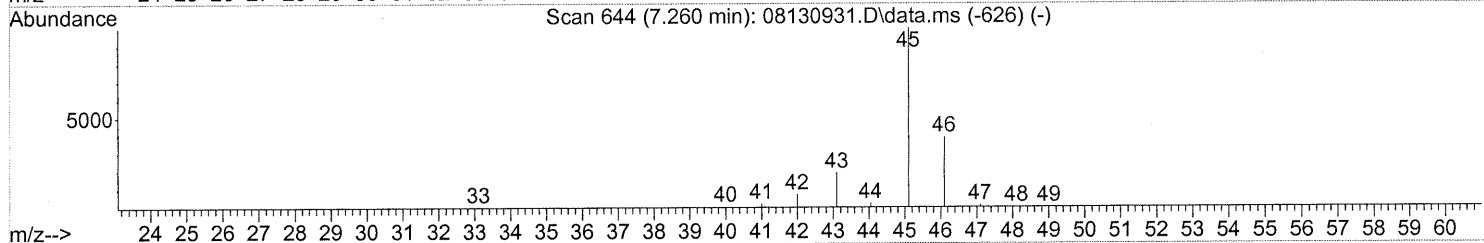
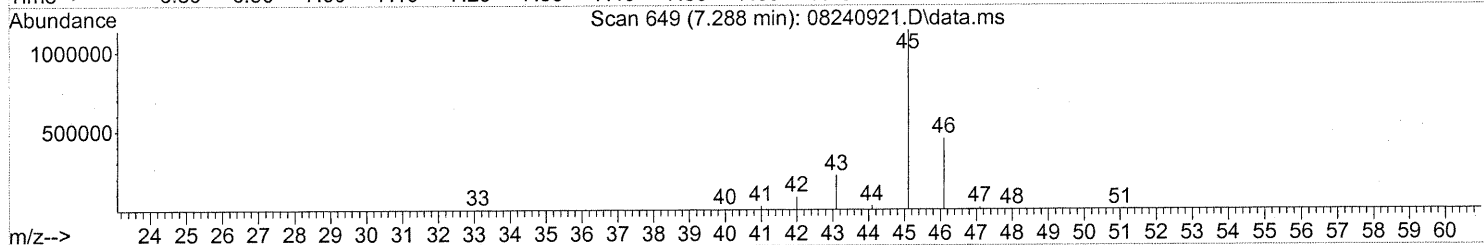
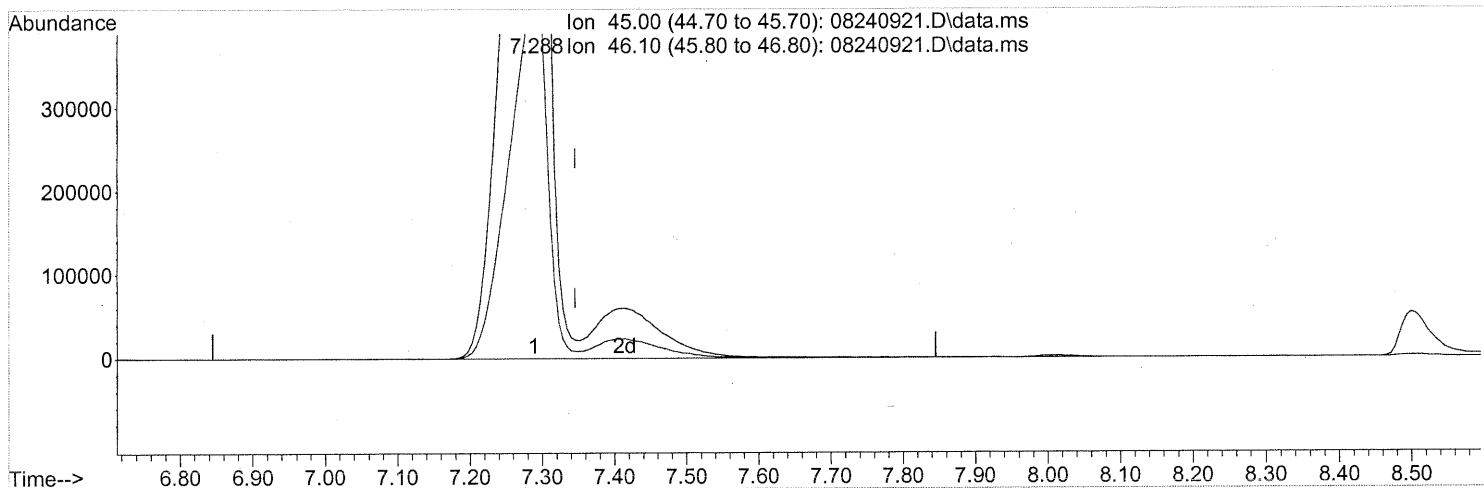
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.36
0.00	0.00	0.00
0.00	0.00	0.00

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(10) Ethanol (T)
 7.288min (-0.057) 236.68ng m
 response 4493648

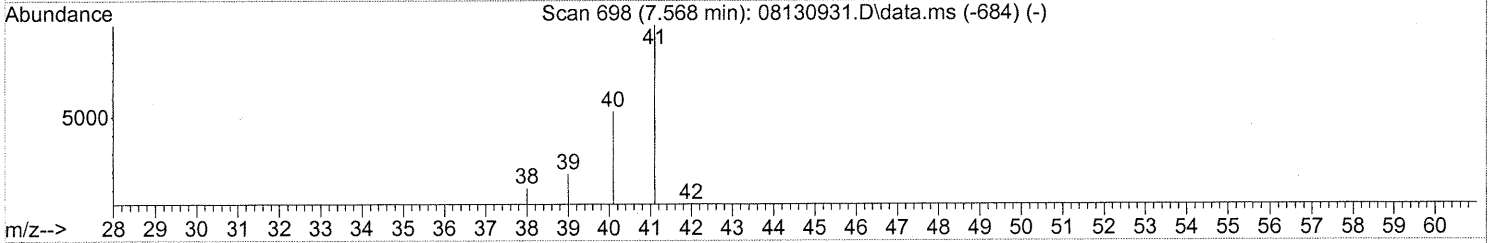
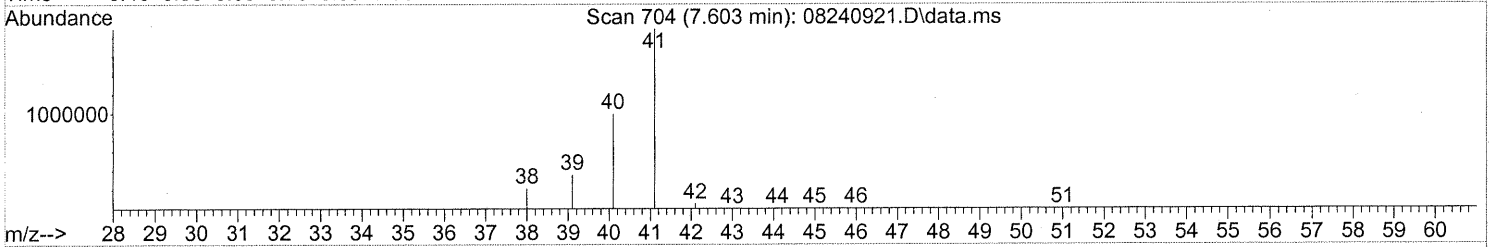
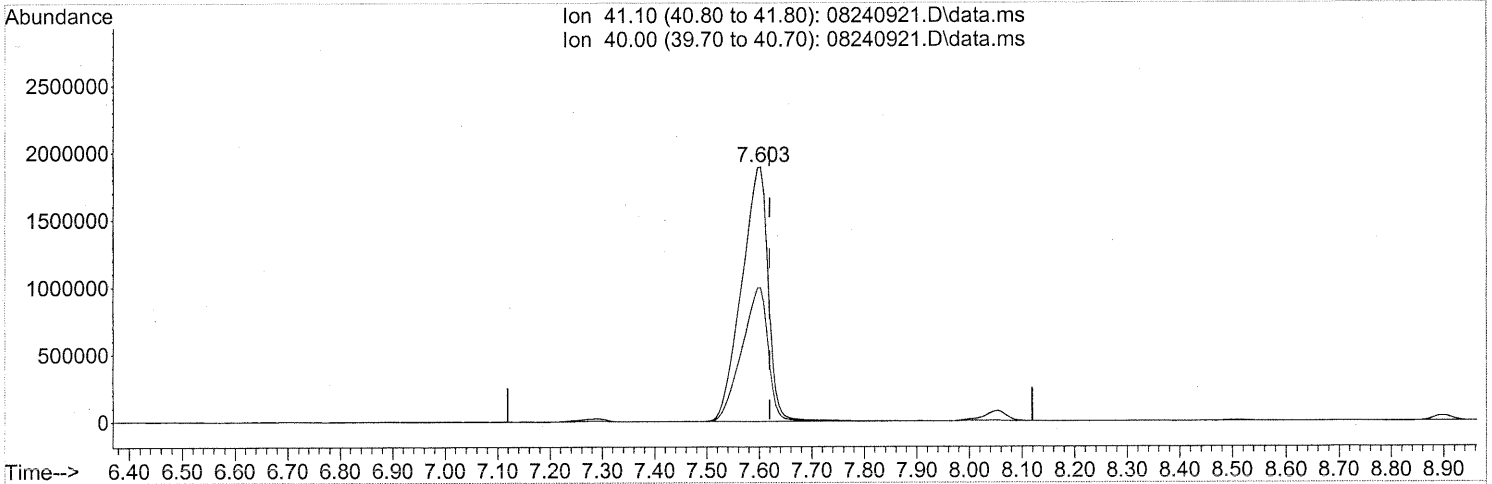
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	35.97
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
 em 8/28/09
 8/30/09

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TIC: 08240921.D\data.ms

(11) Acetonitrile (T)
7.603min (-0.017) 143.53ng
response 6650328

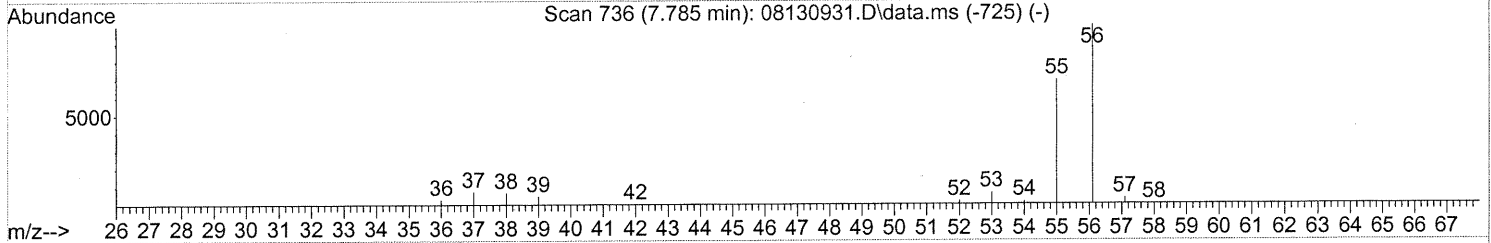
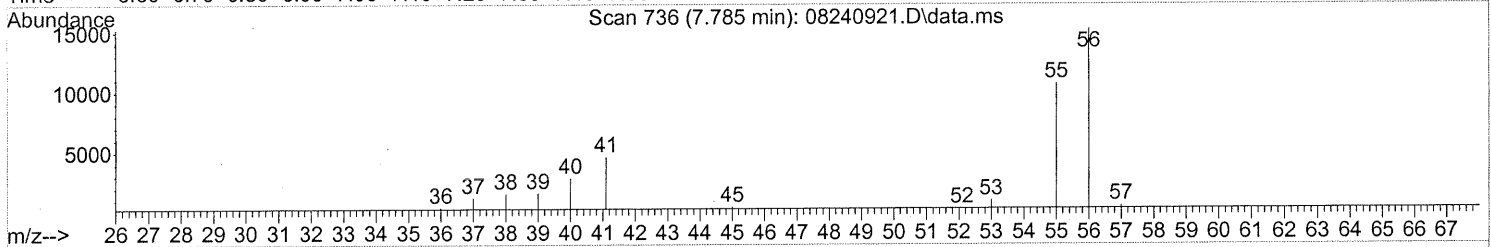
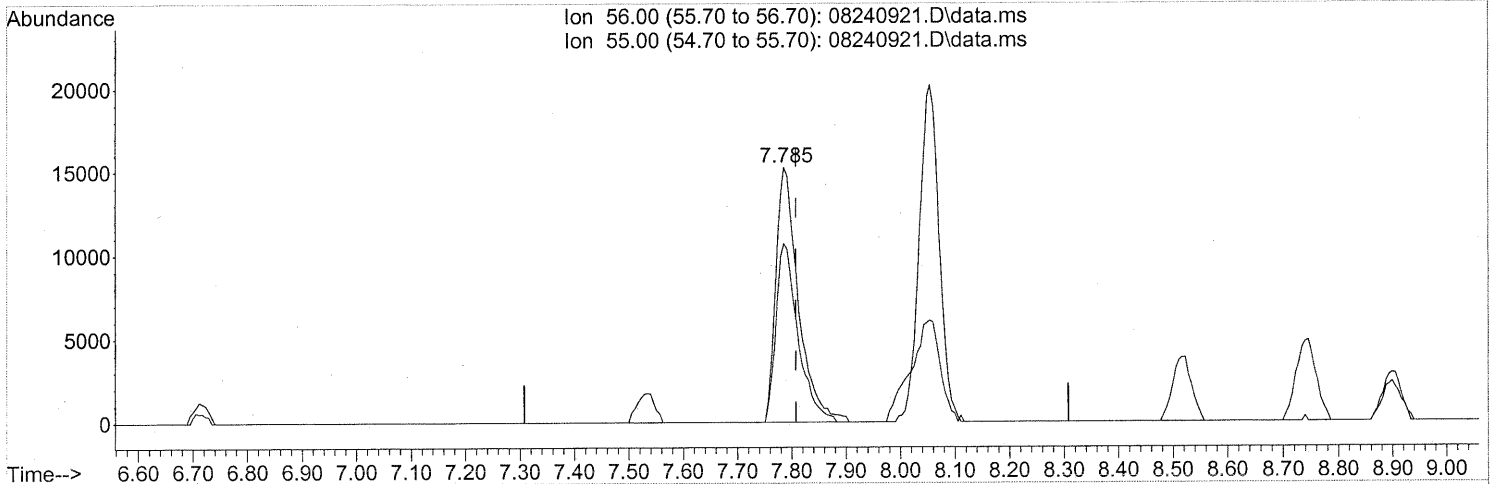
E

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.44
0.00	0.00	0.00
0.00	0.00	0.00

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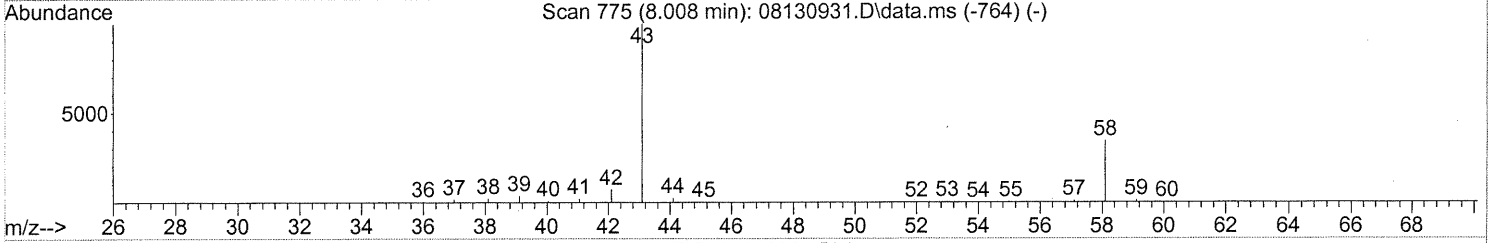
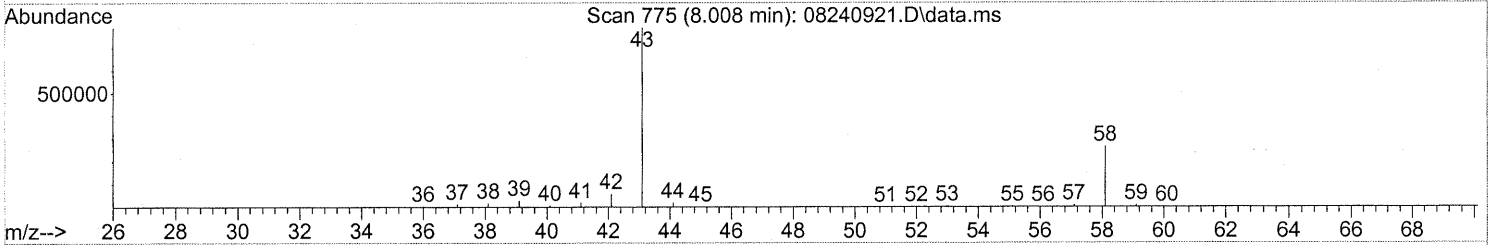
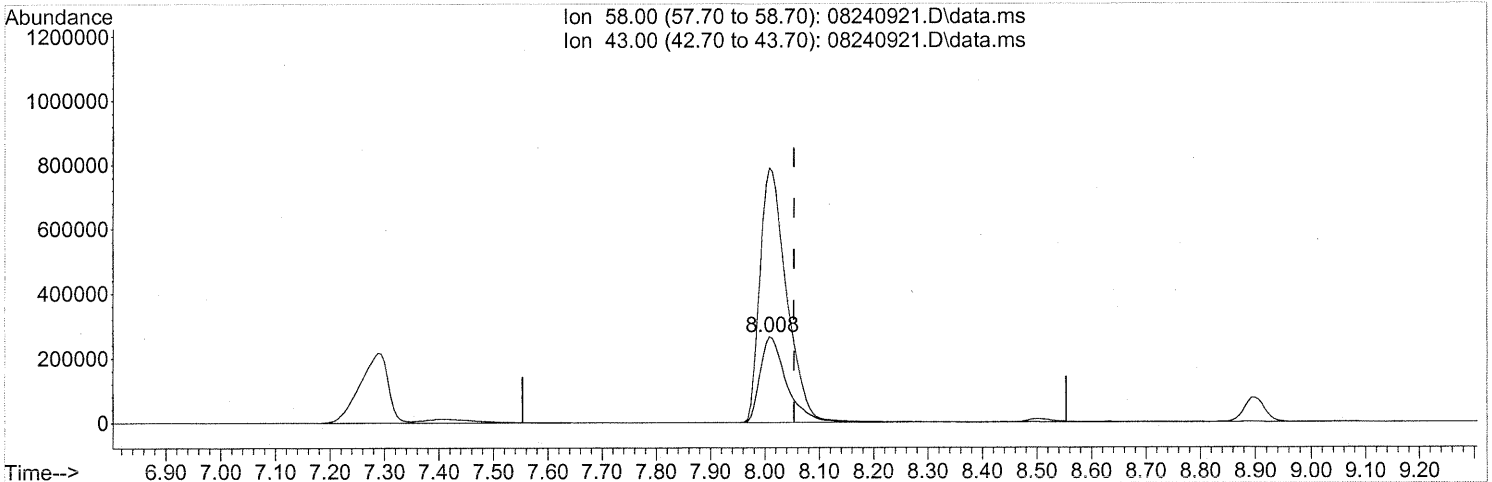
(12) Acrolein (T)
 7.785min (-0.023) 3.53ng
 response 43682

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	68.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(13) Acetone (T)

8.008min (-0.046) 46.34ng

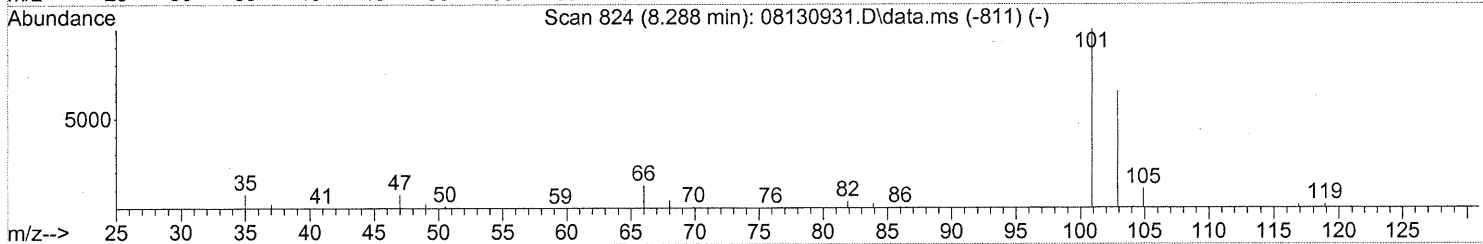
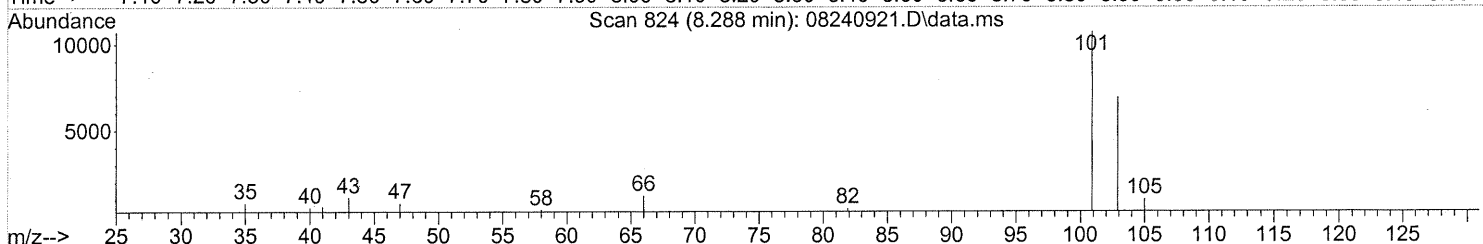
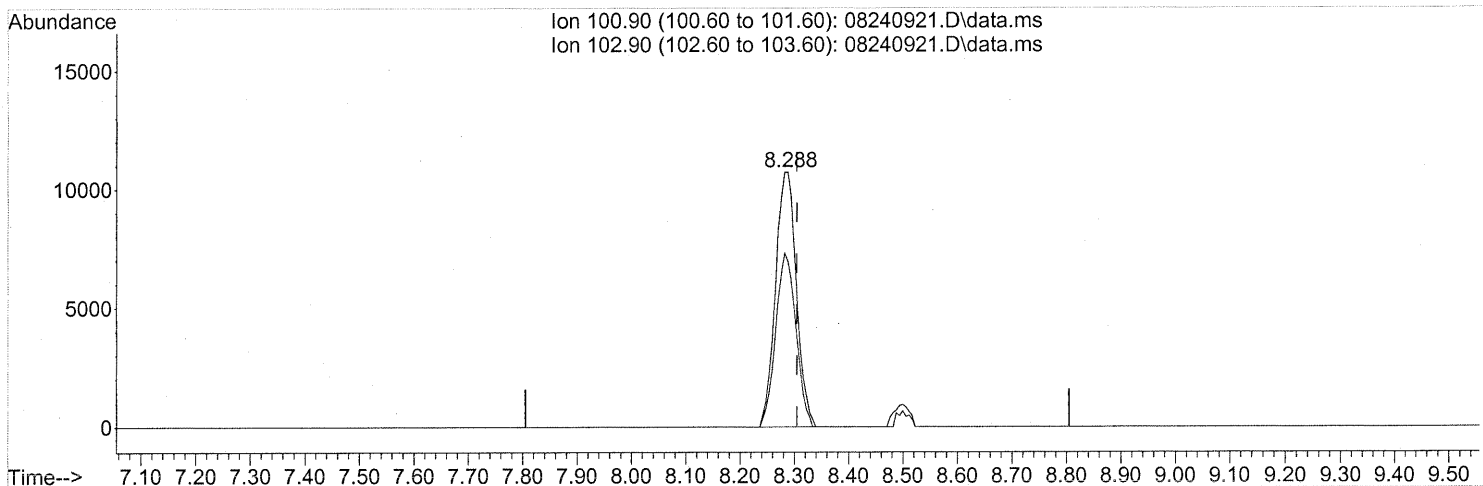
response 895365

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	303.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.017) 0.77ng

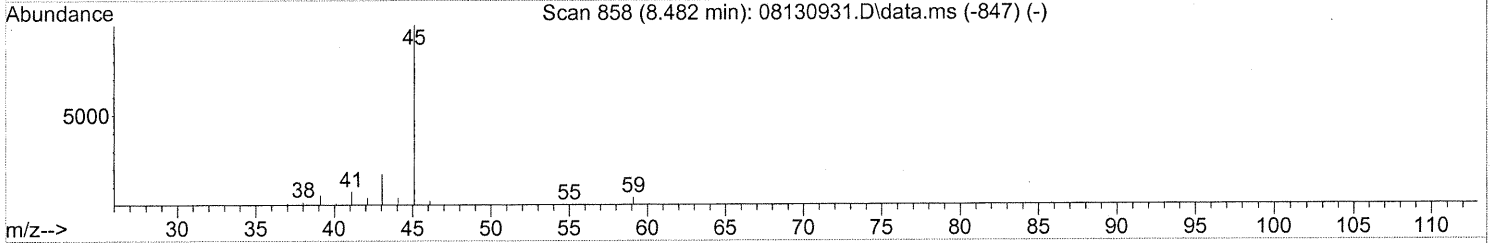
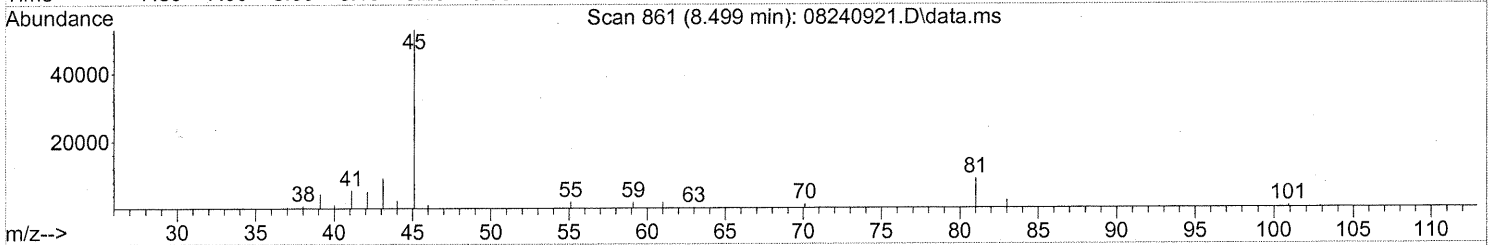
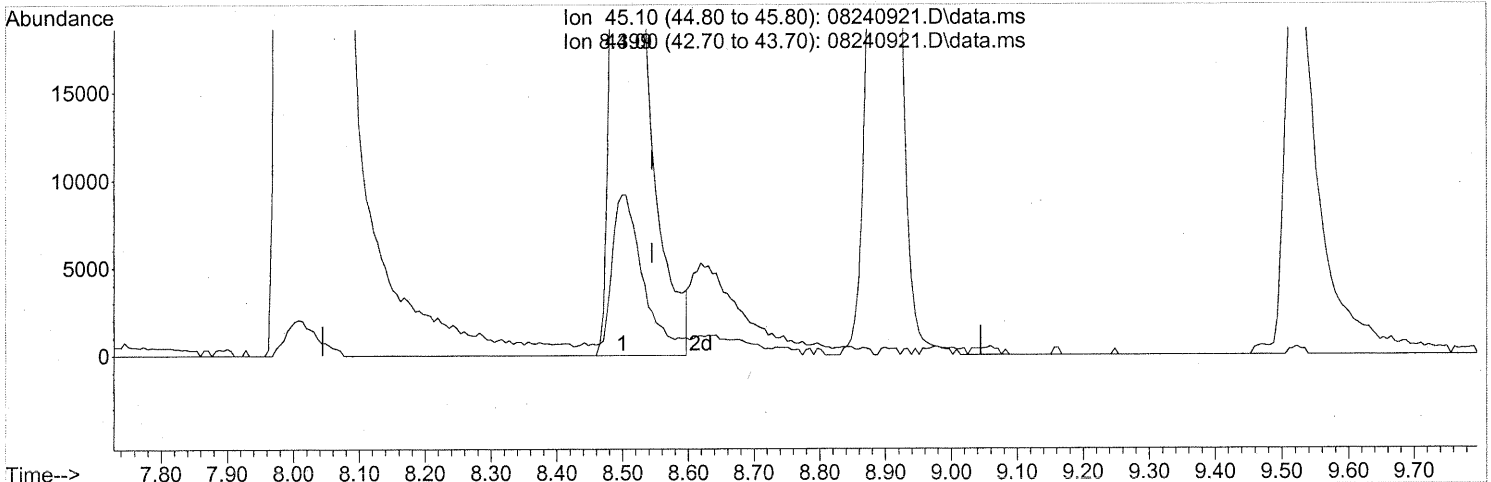
response 28299

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	66.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

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

8.499min (-0.046) 3.02ng

response 159854

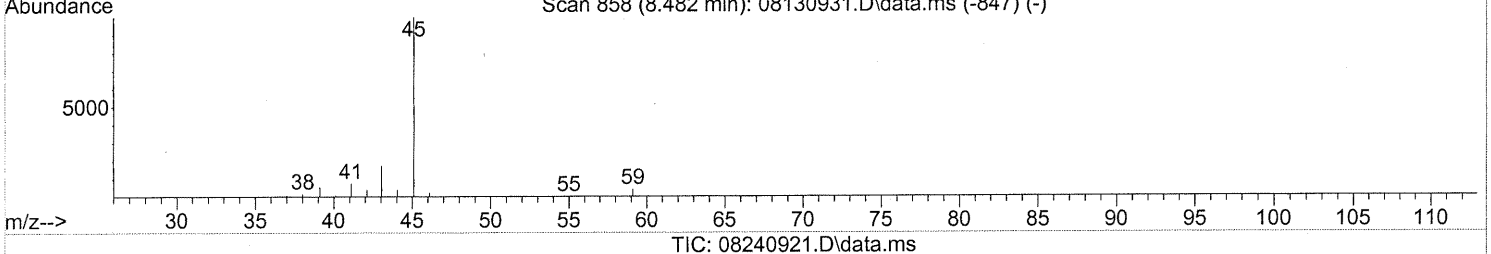
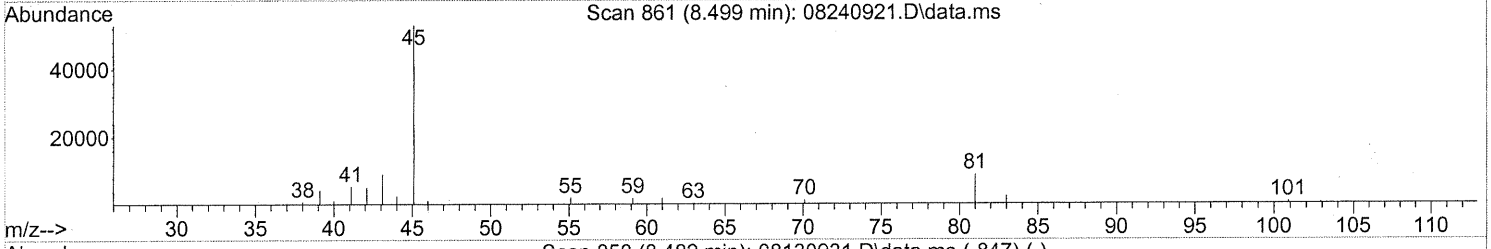
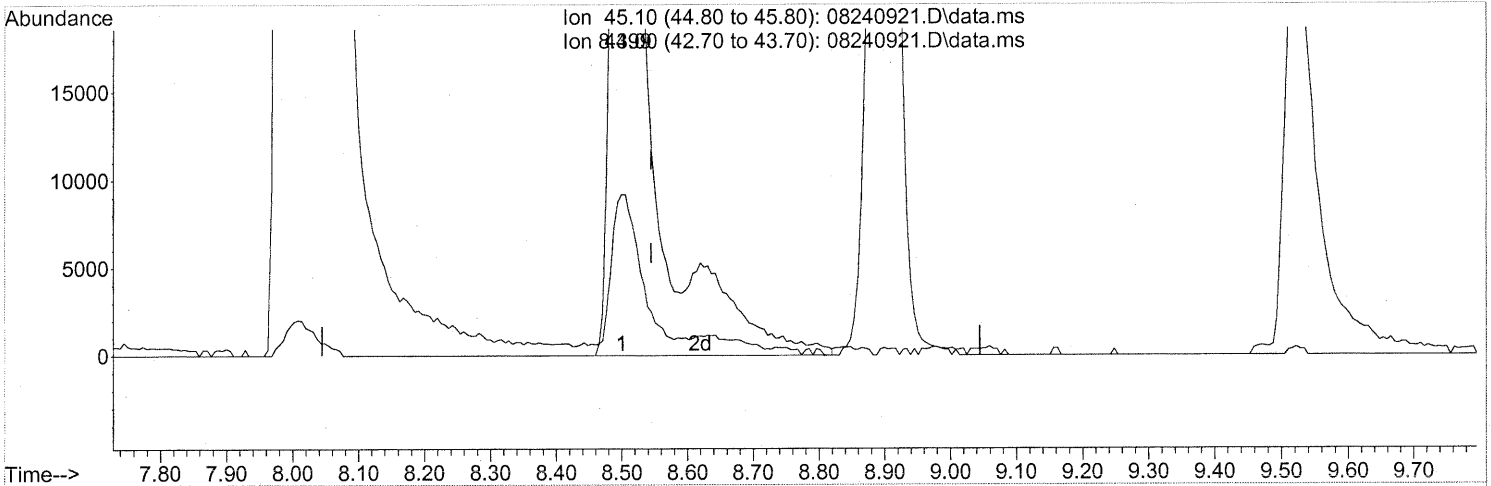
PT

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.499min (-0.046) 3.57ng m

response 188910

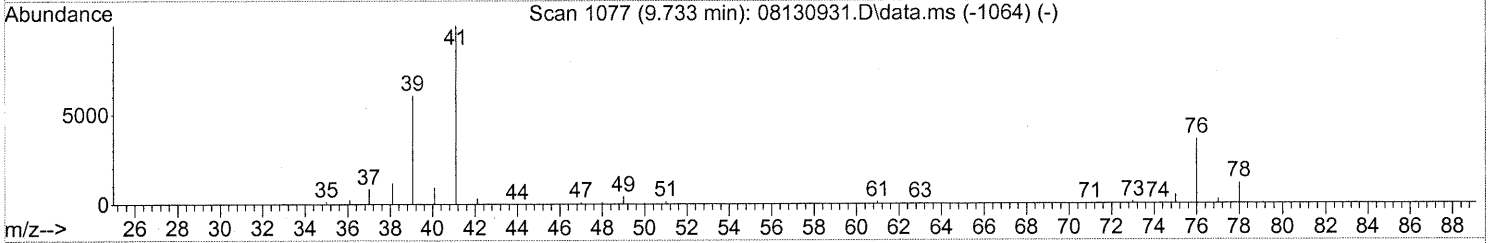
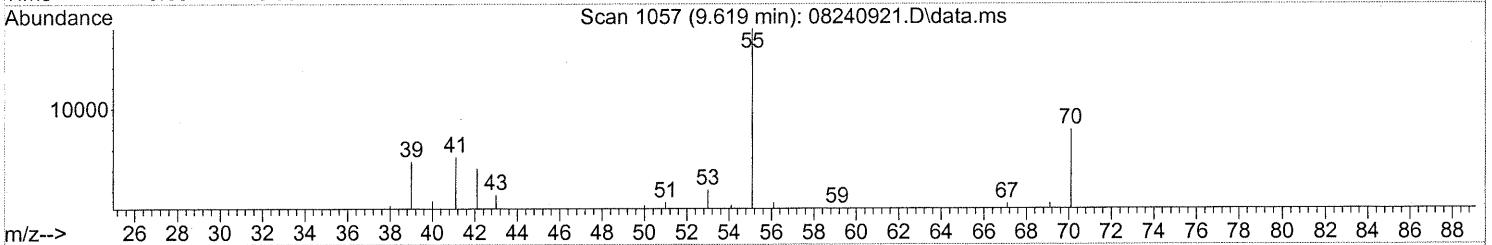
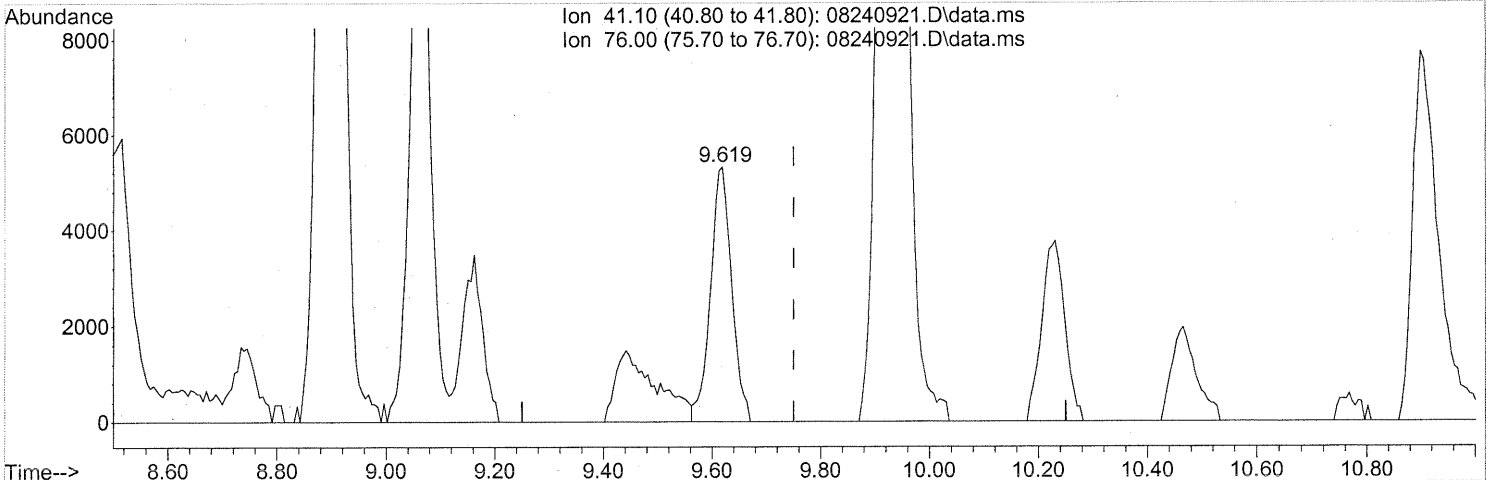
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	16.82
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 8/28/09
8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.619min (-0.131) 0.45ng

response 14406

Ion	Exp%	Act%
41.10	100	100
76.00	41.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

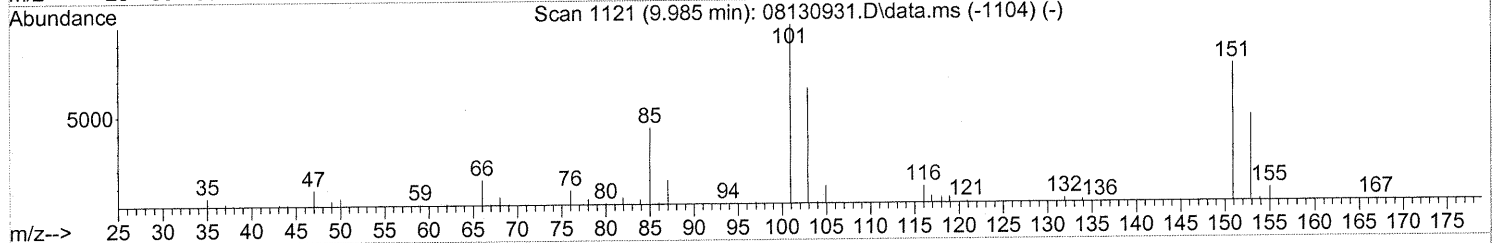
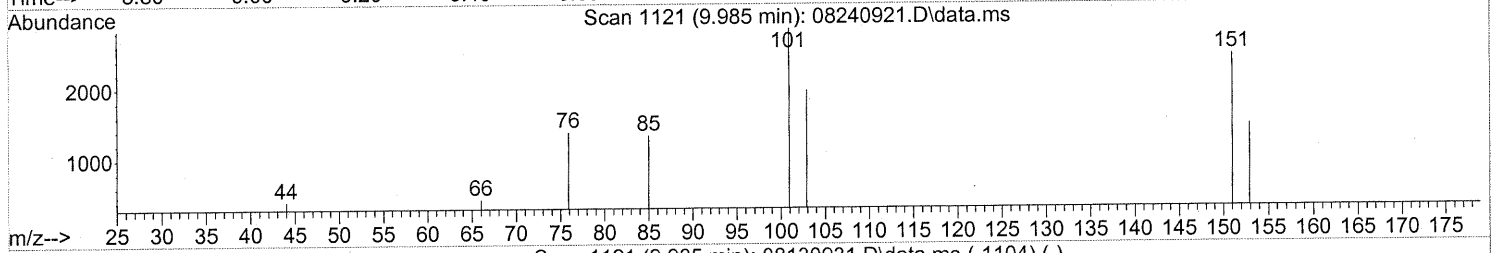
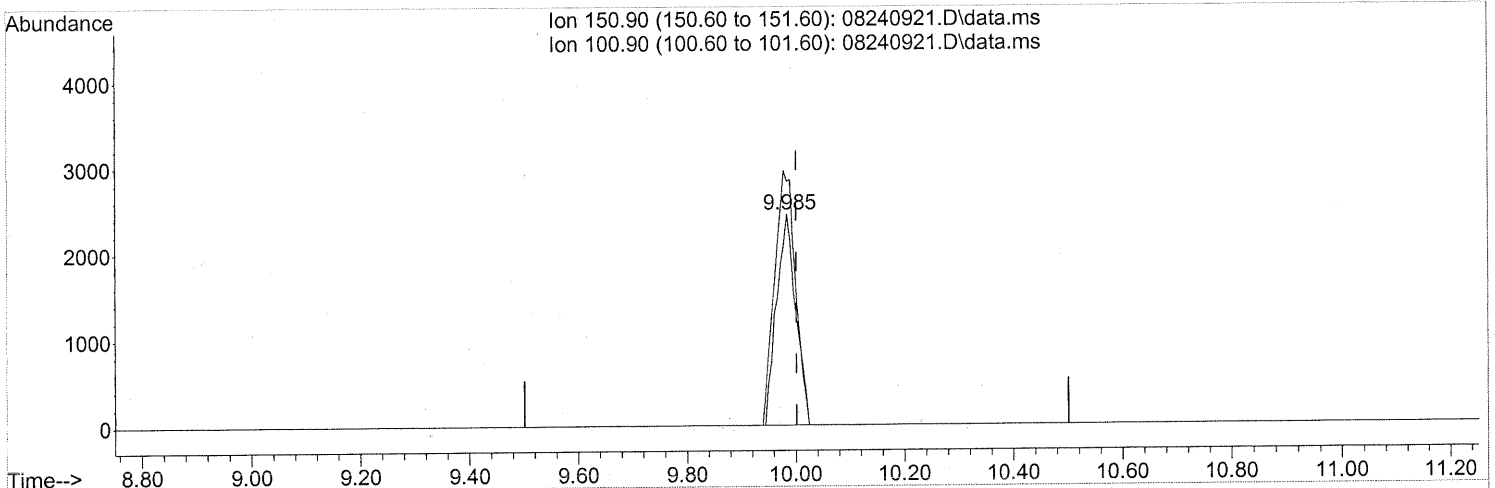
FP Em 8/28/09

OP 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.36ng

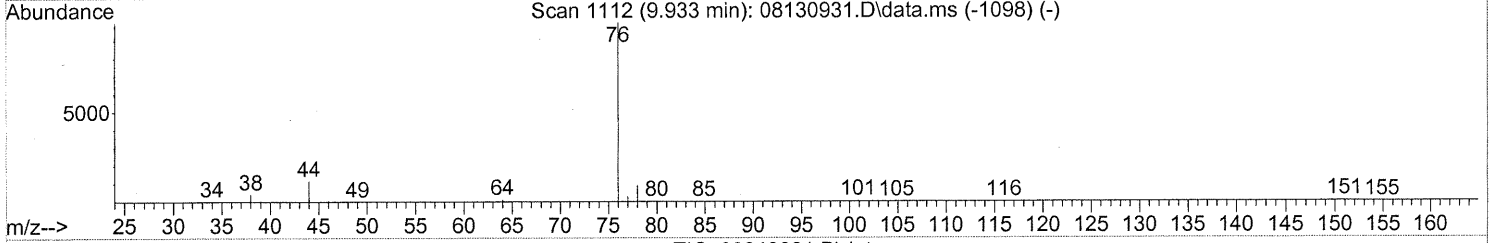
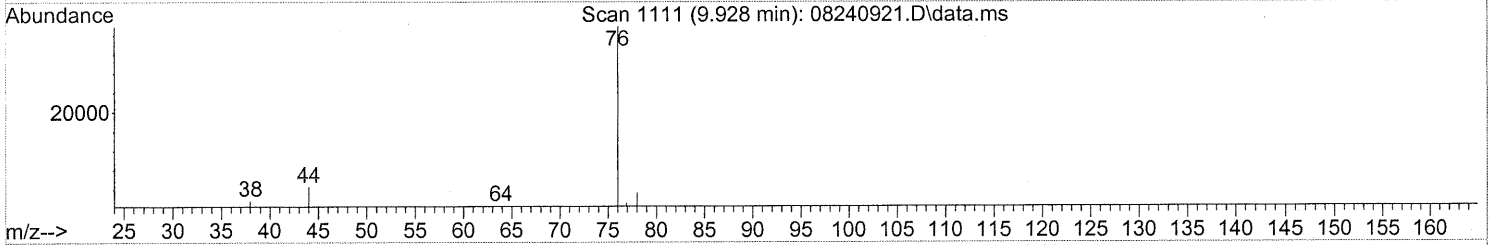
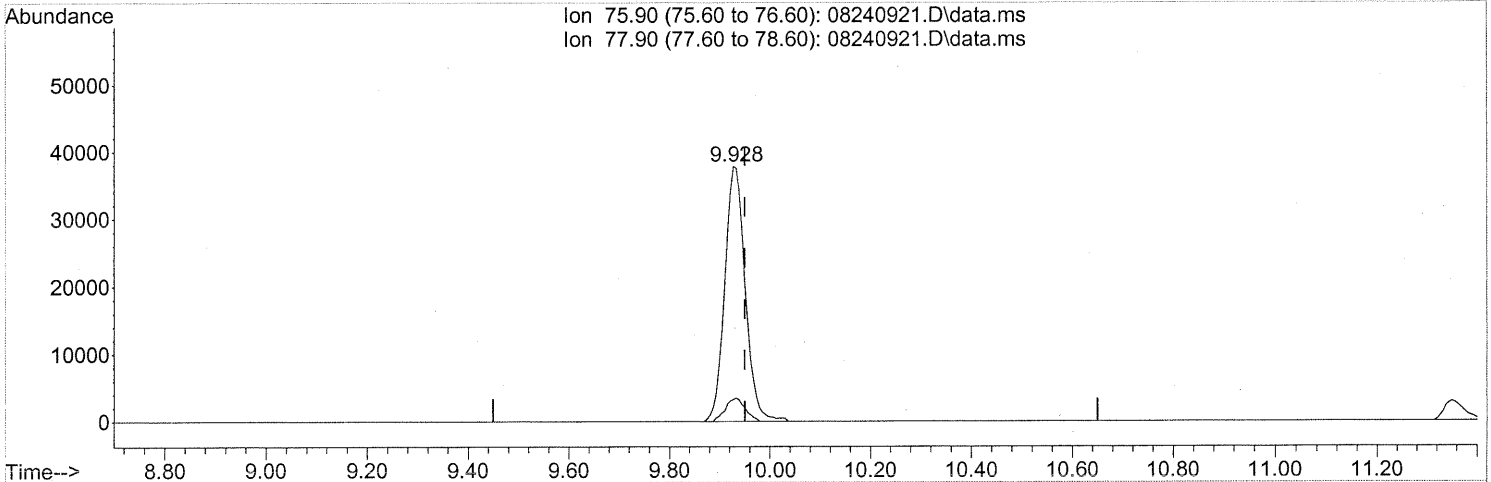
response 5947

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	131.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240921.D
Acq On : 24 Aug 2009 22:34
Operator : EM
Sample : P0902832-004 (1000ml)
Misc : Eng. H&E 101657
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08240921.D\data.ms

(22) Carbon Disulfide (T)

9.928min (-0.023) 1.26ng

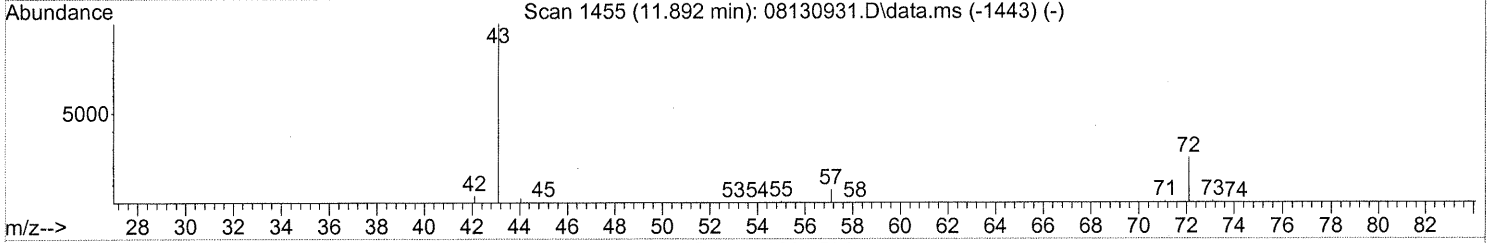
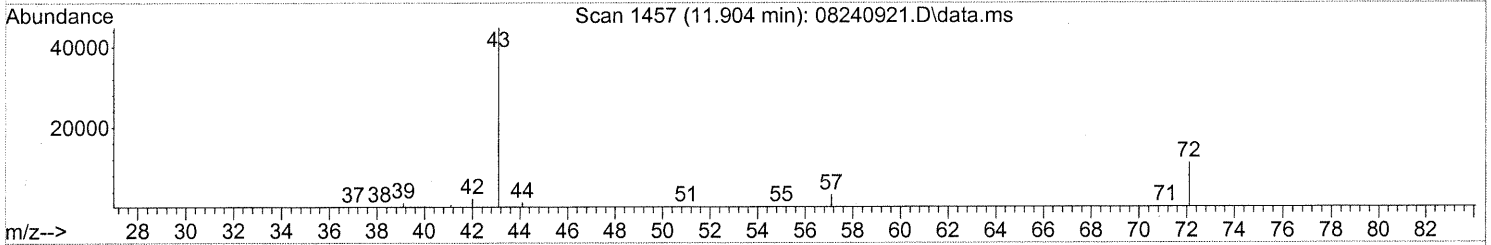
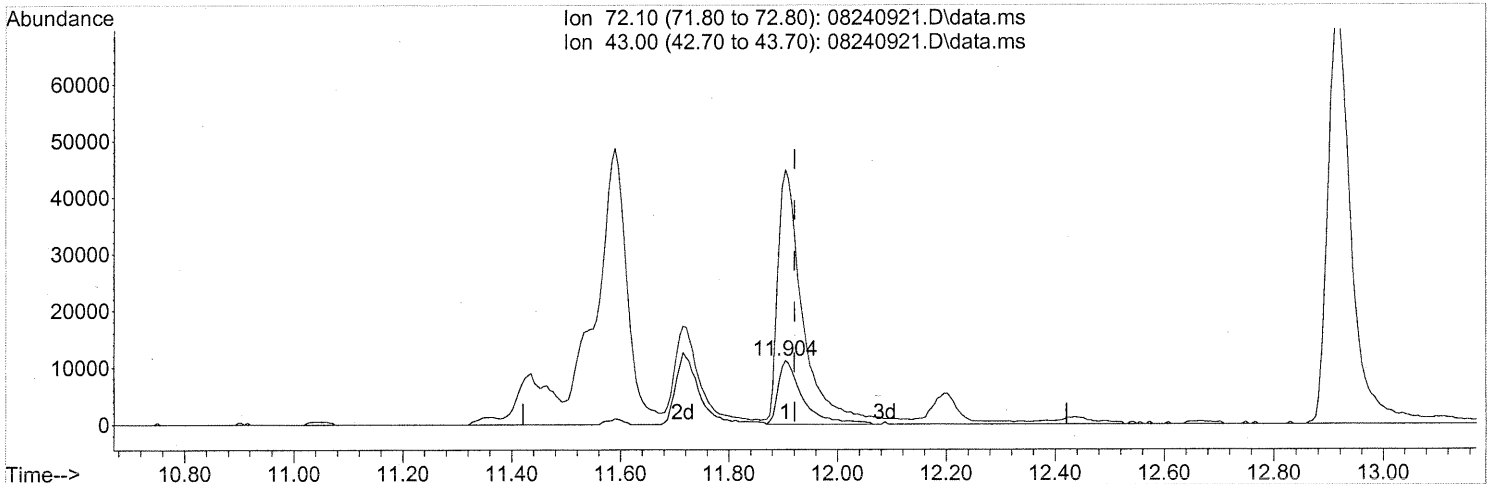
response 106877

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

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

11.904min (-0.017) 2.55ng

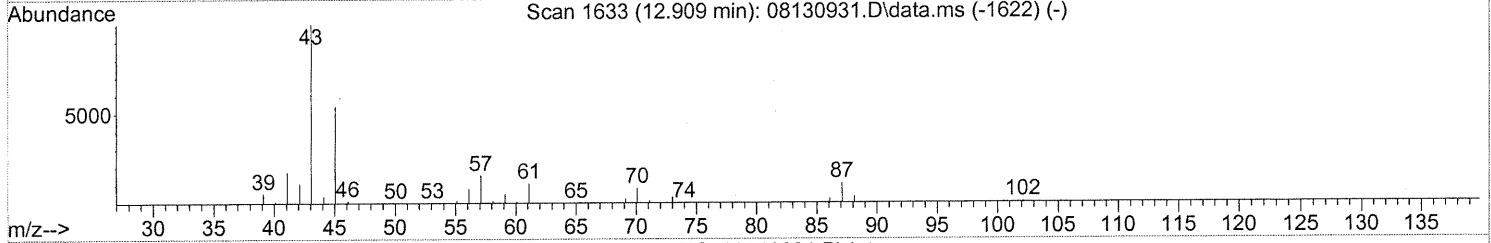
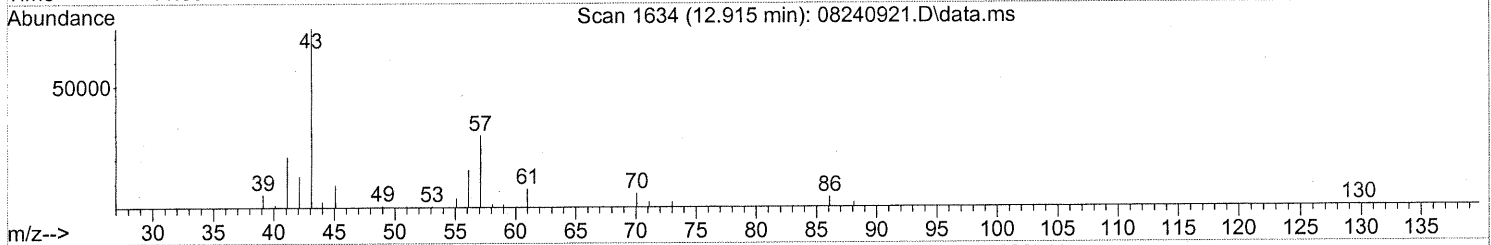
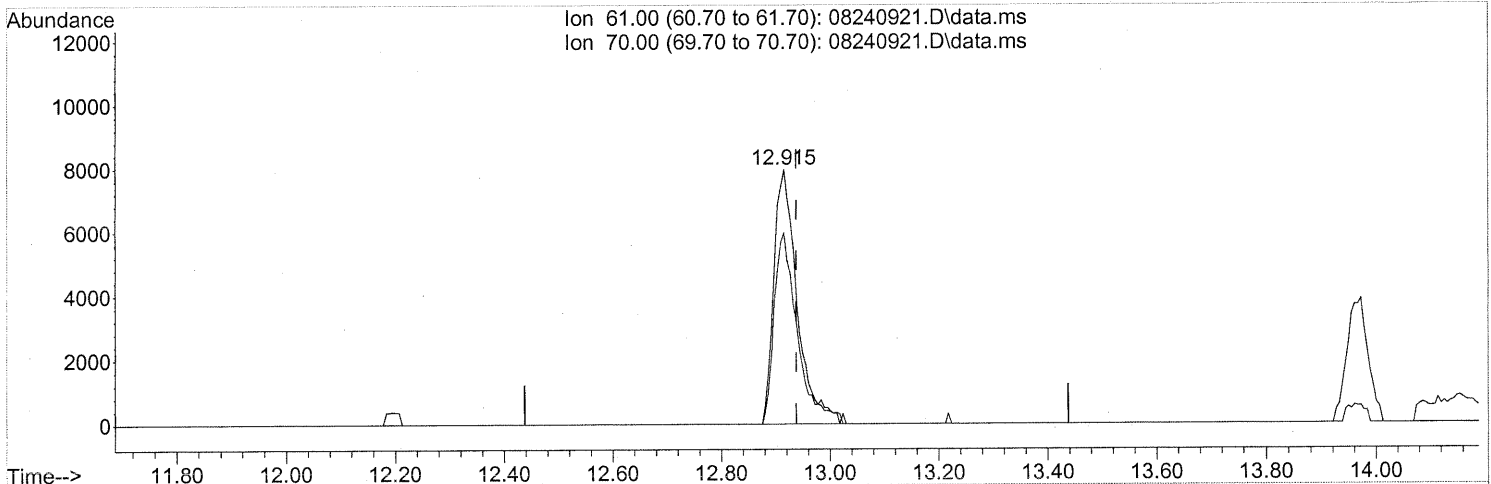
response 34375

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	390.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

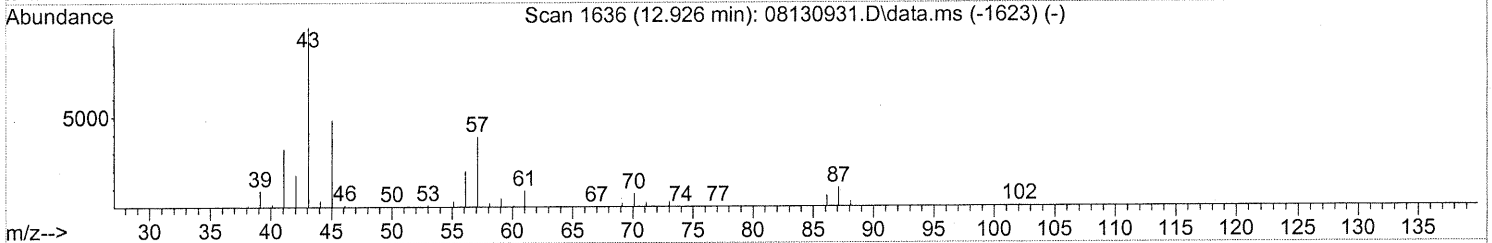
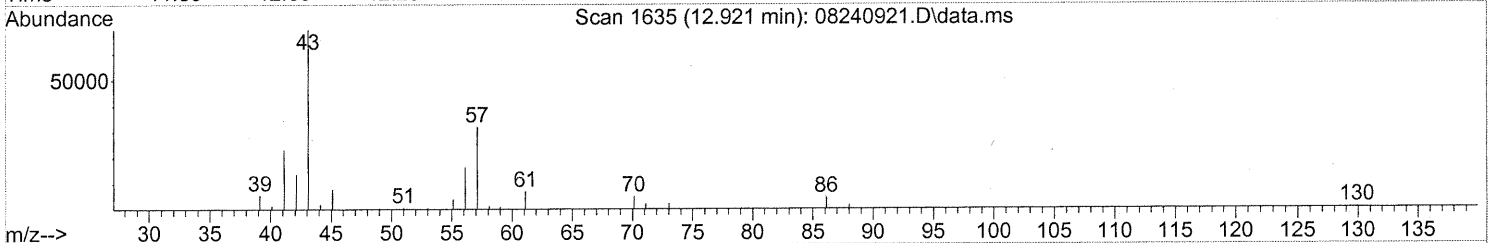
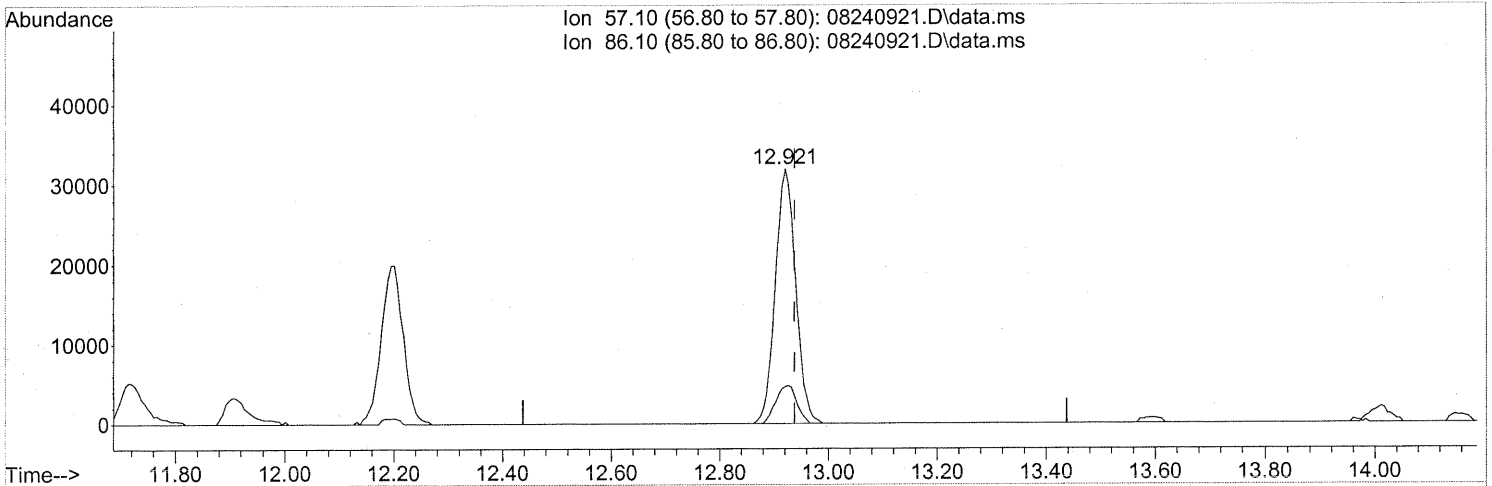
(30) Ethyl Acetate (T)
 12.915min (-0.023) 2.71ng
 response 23635

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	74.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

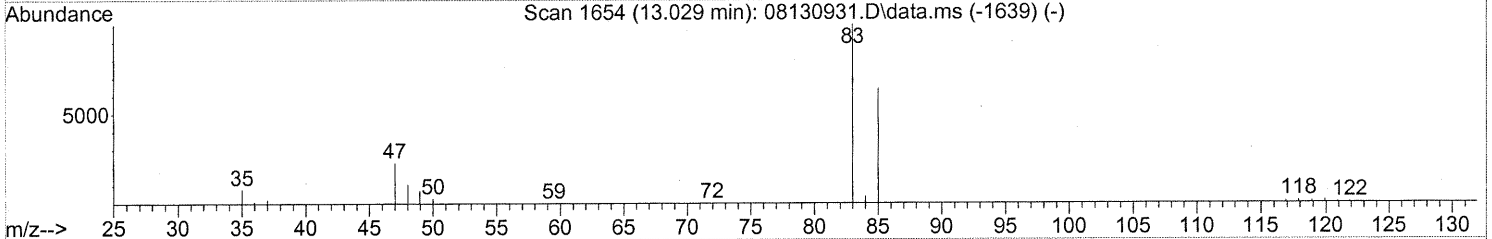
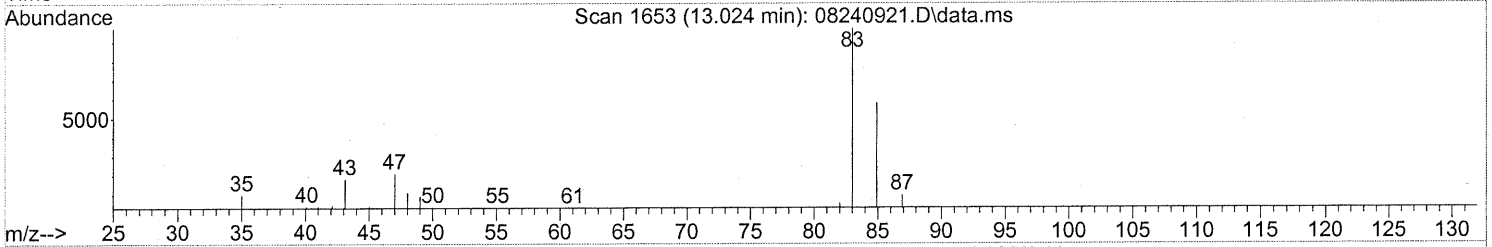
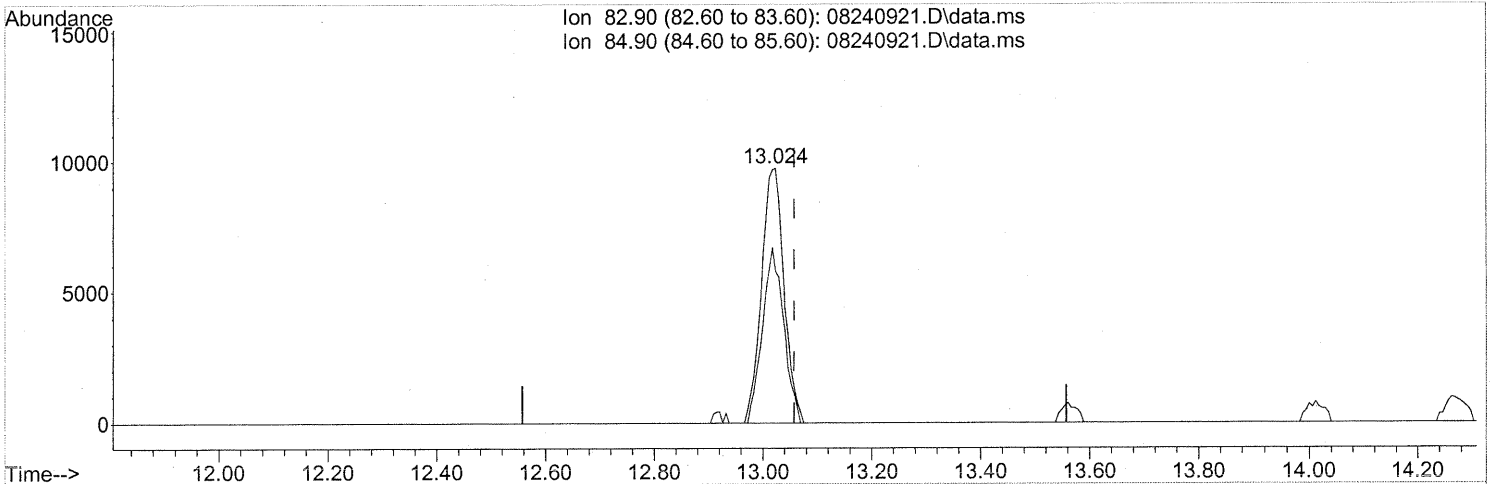
(31) n-Hexane (T)
 12.921min (-0.017) 1.94ng
 response 82531

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(32) Chloroform (T)

13.024min (-0.034) 0.79ng

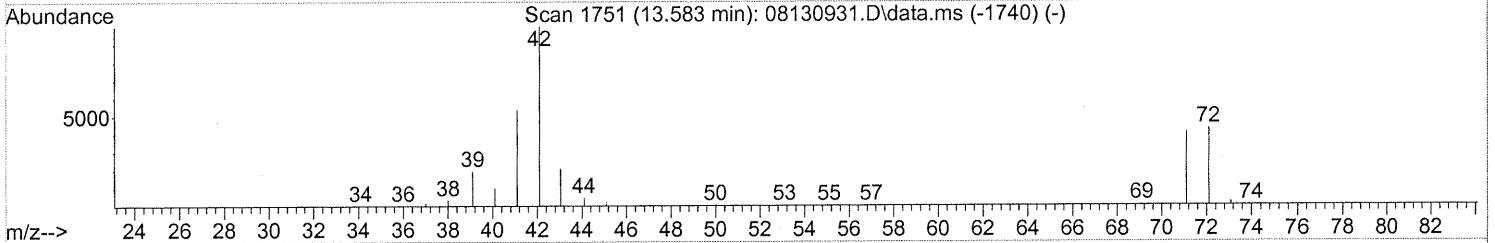
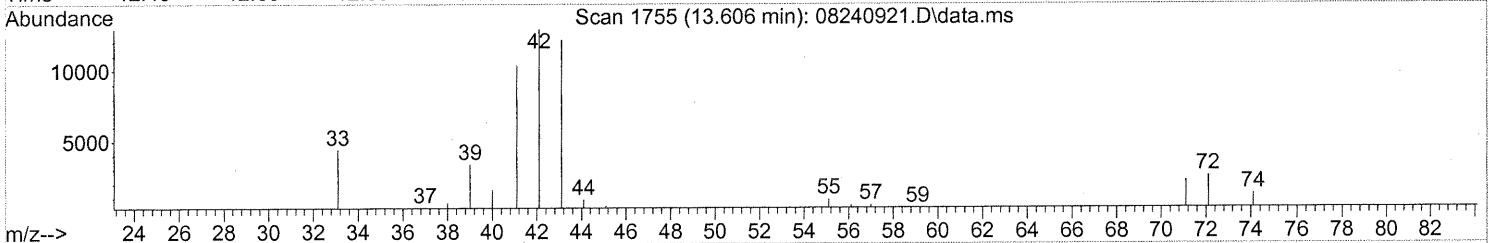
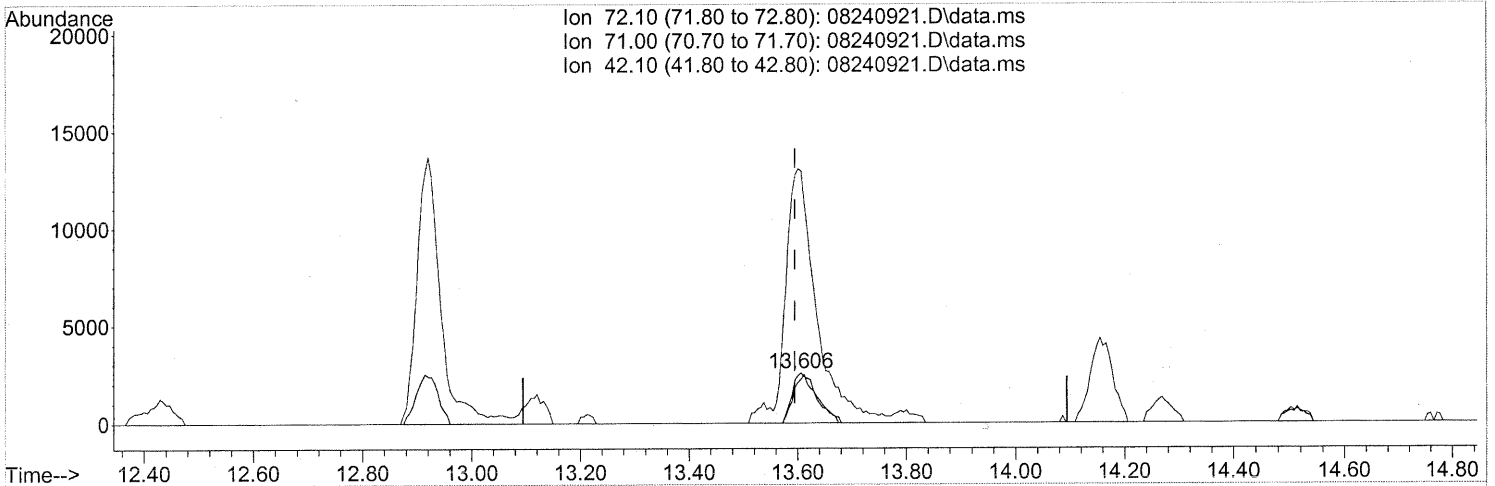
response 27975

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.606min (+0.012) 0.58ng

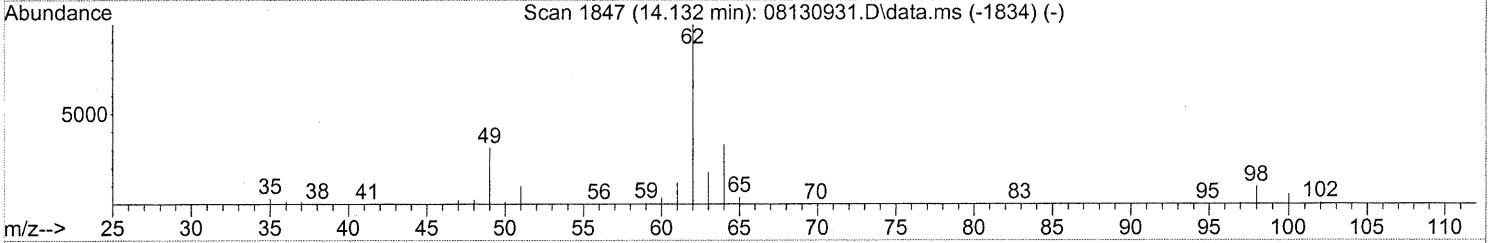
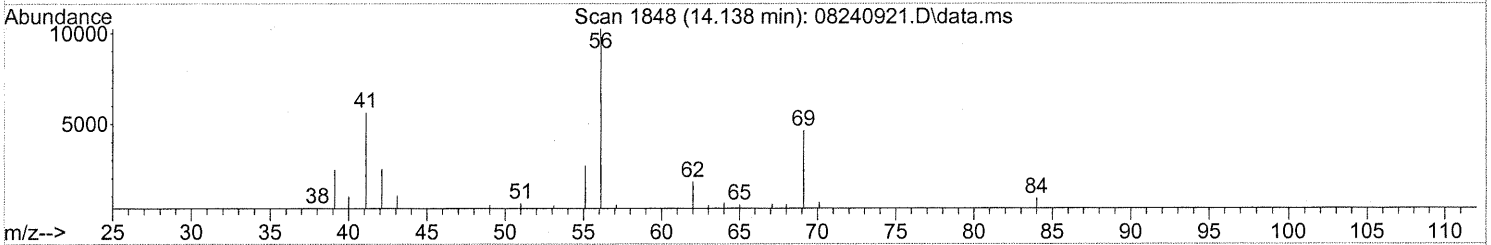
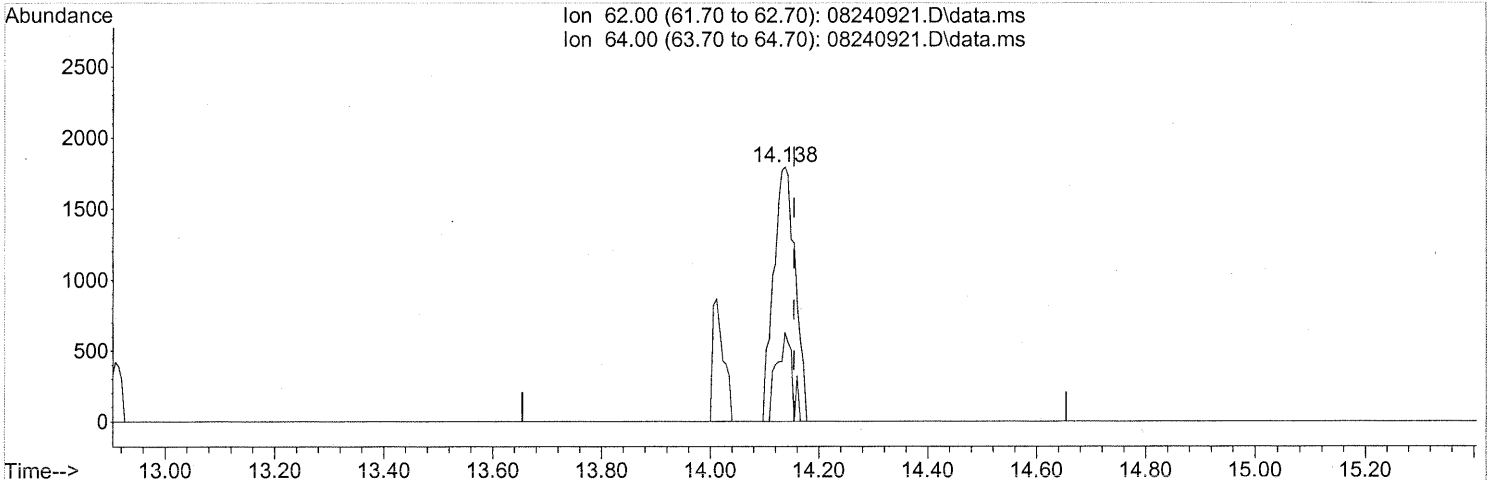
response 8104

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	90.46
42.10	206.50	619.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(36) 1,2-Dichloroethane (T)

14.138min (-0.017) 0.18ng

response 4938

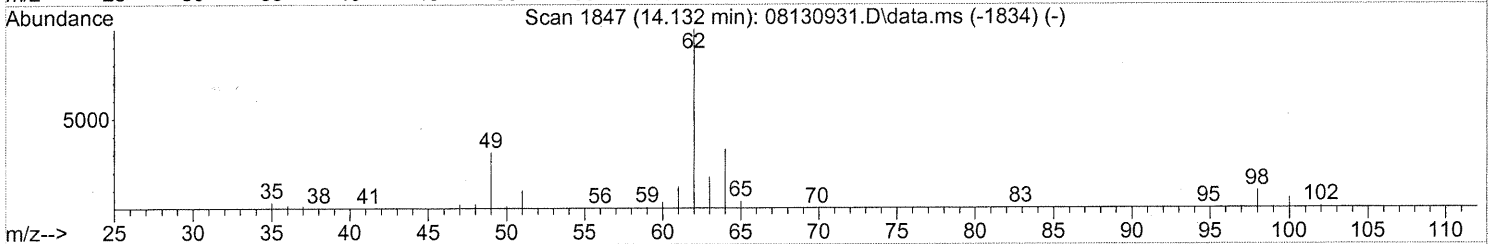
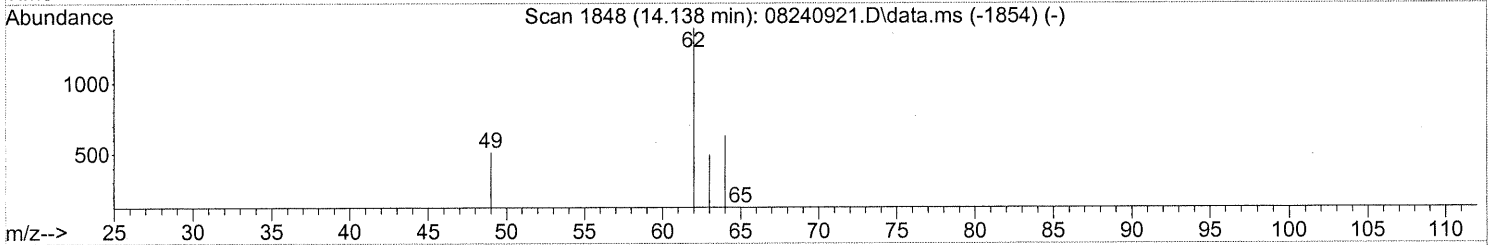
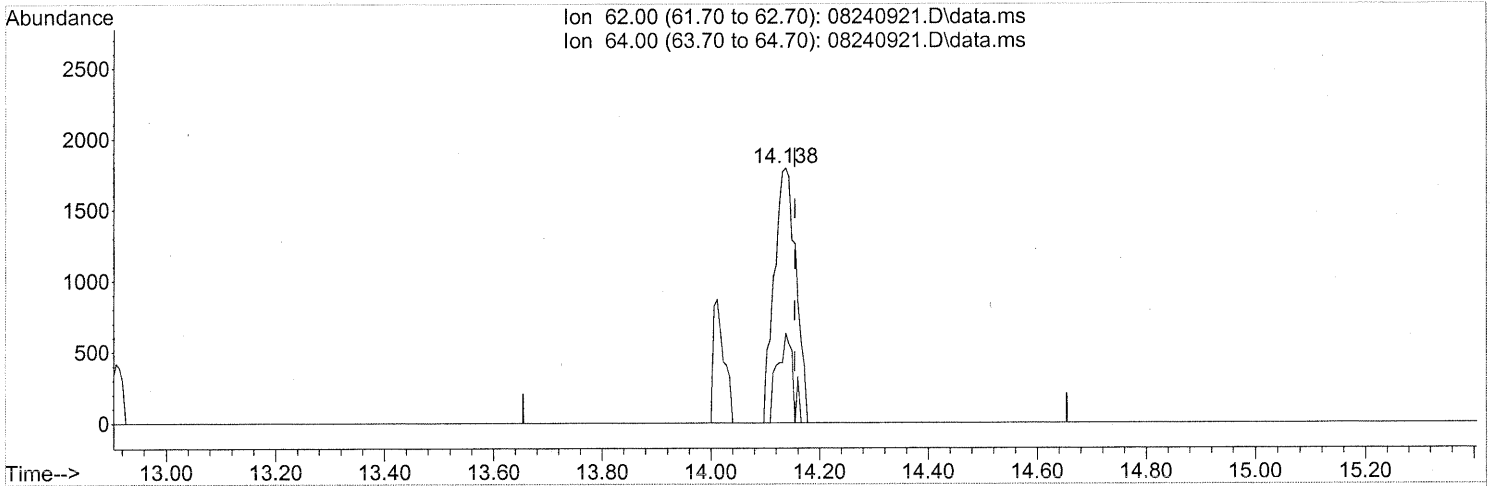
Before subtraction

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	24.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(36) 1,2-Dichloroethane (T)

14.138min (-0.017) 0.18ng

response 4938

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	24.99
0.00	0.00	0.00
0.00	0.00	0.00

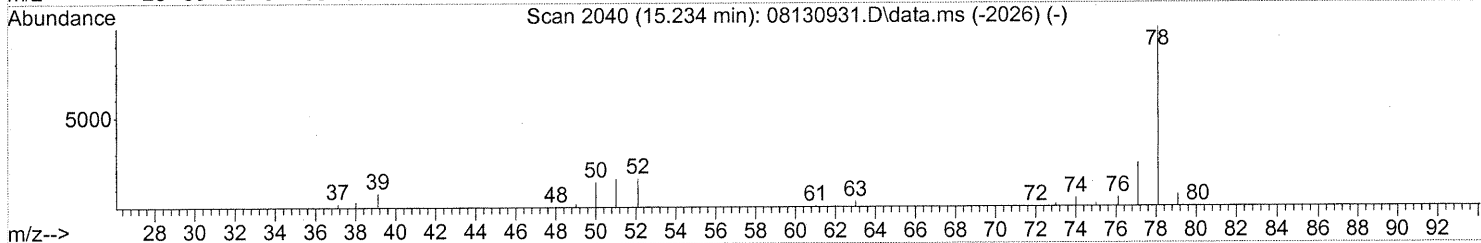
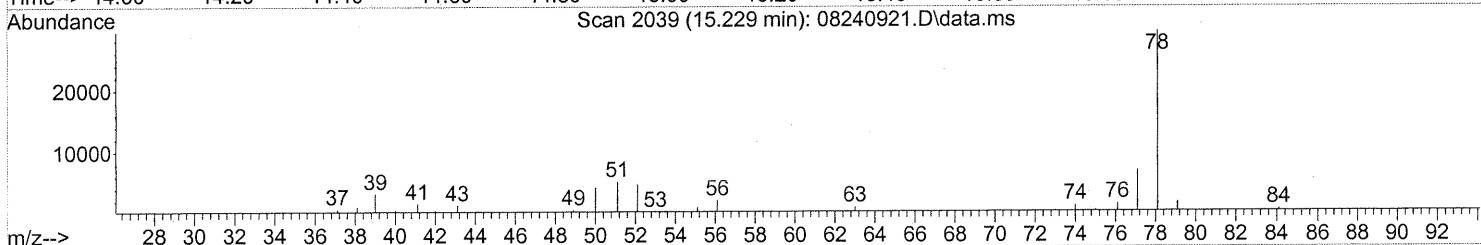
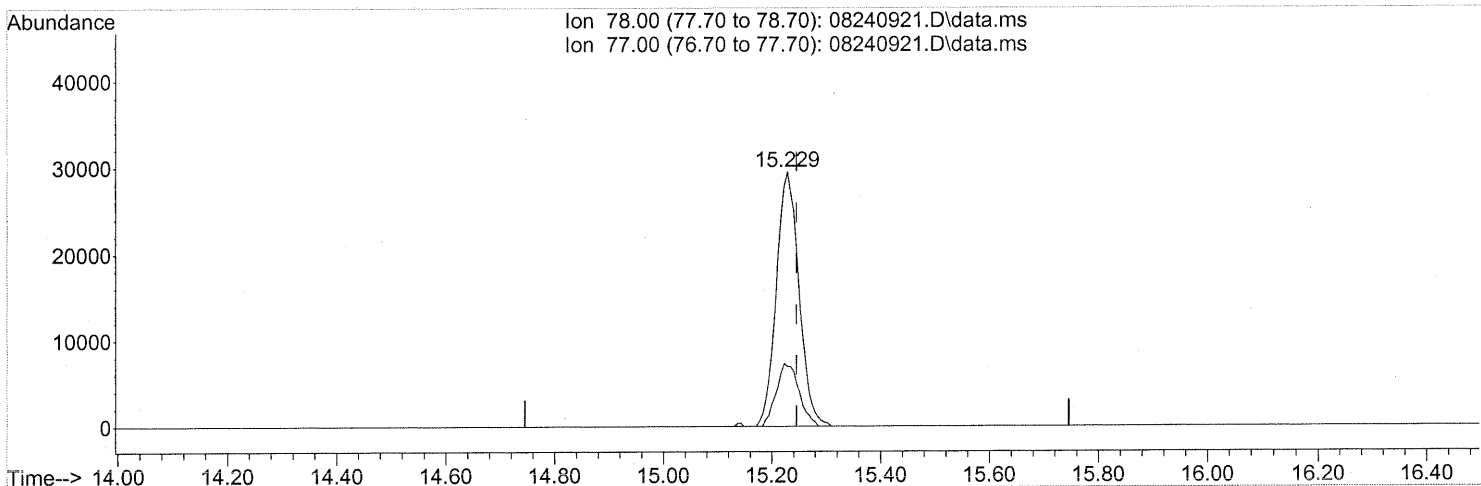
After subtraction

Em 8/28/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(41) Benzene (T)

15.229min (-0.017) 0.90ng

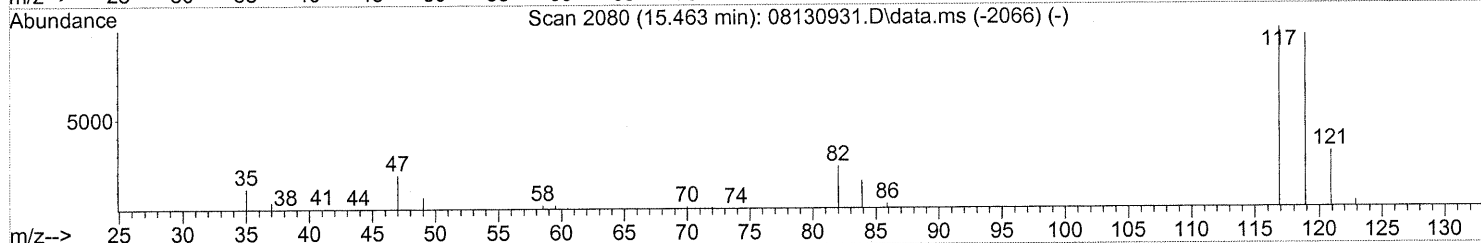
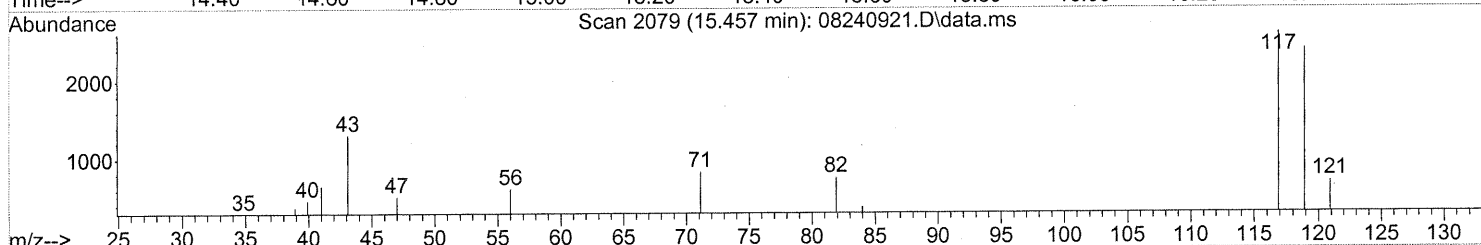
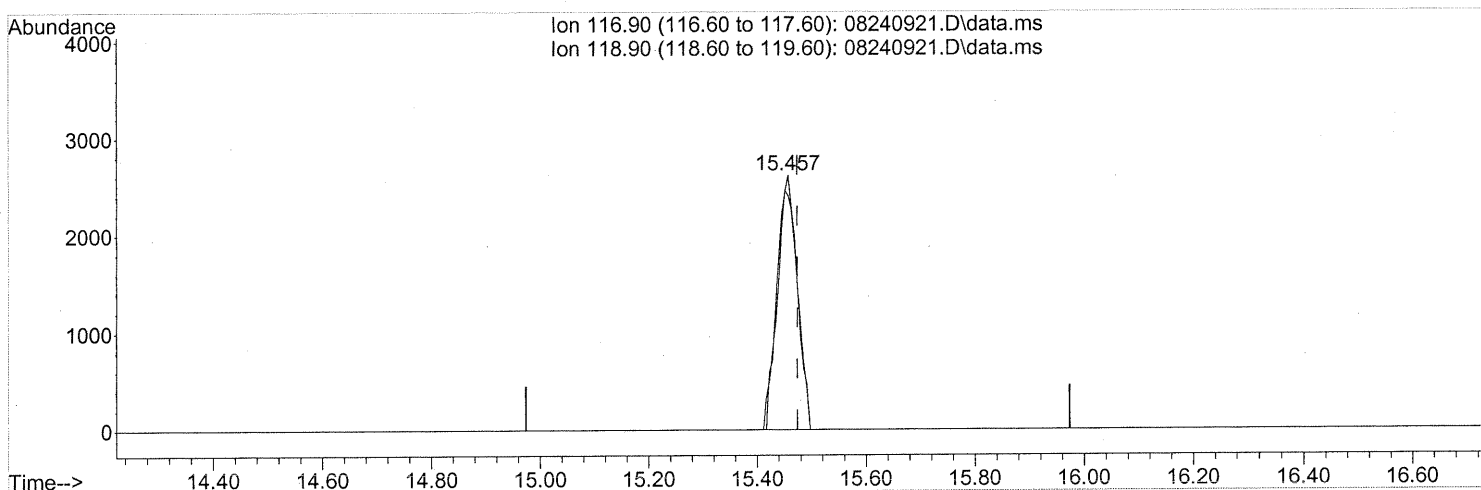
response 84837

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.25ng

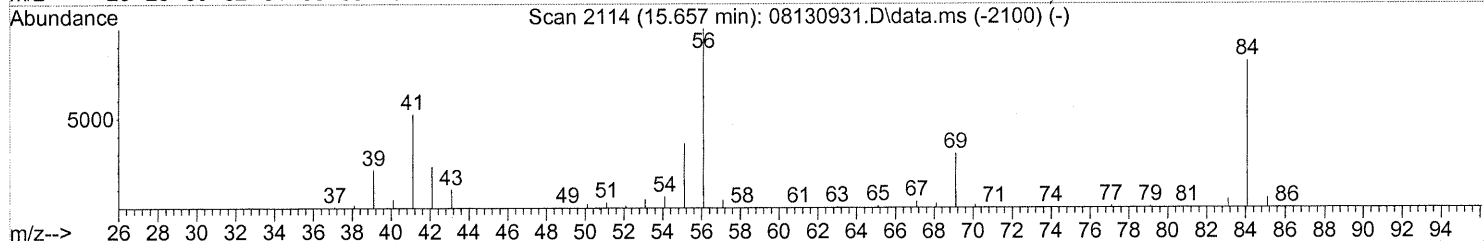
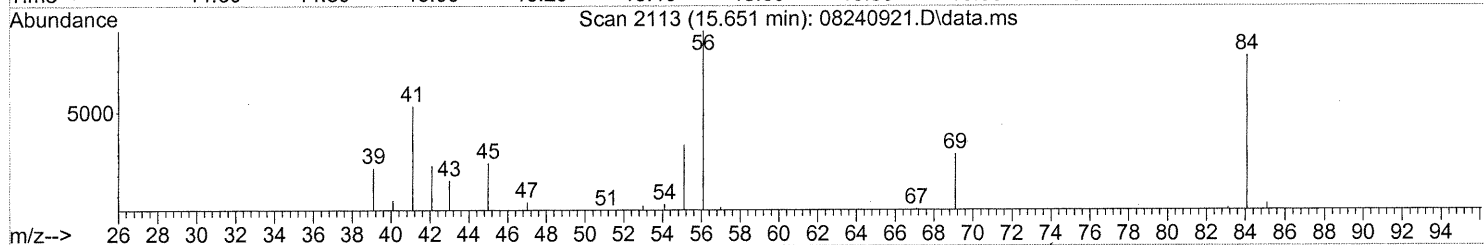
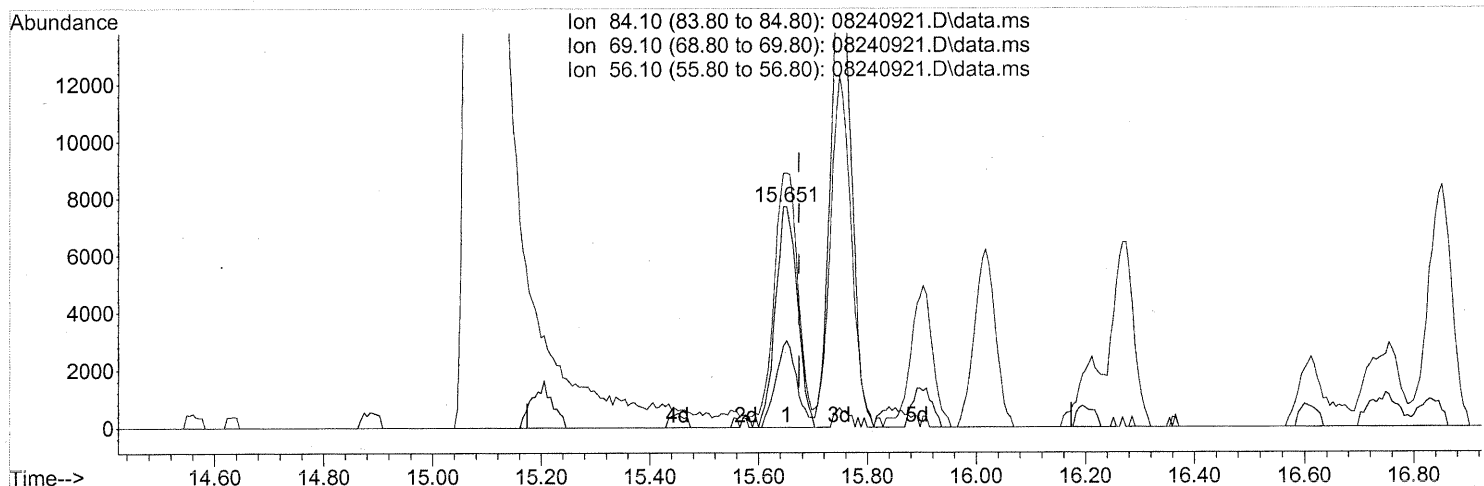
response 6671

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	97.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(43) Cyclohexane (T)

15.651min (-0.023) 0.59ng

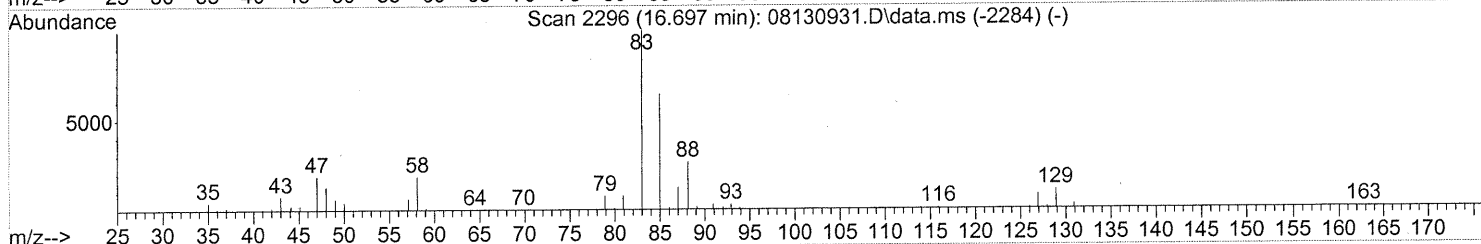
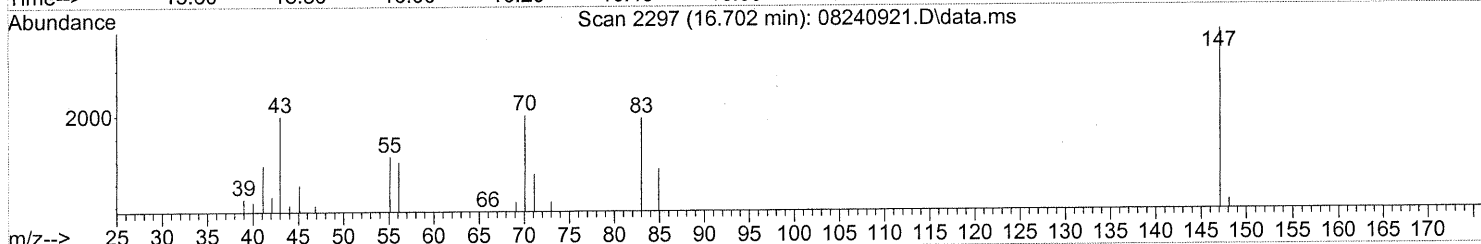
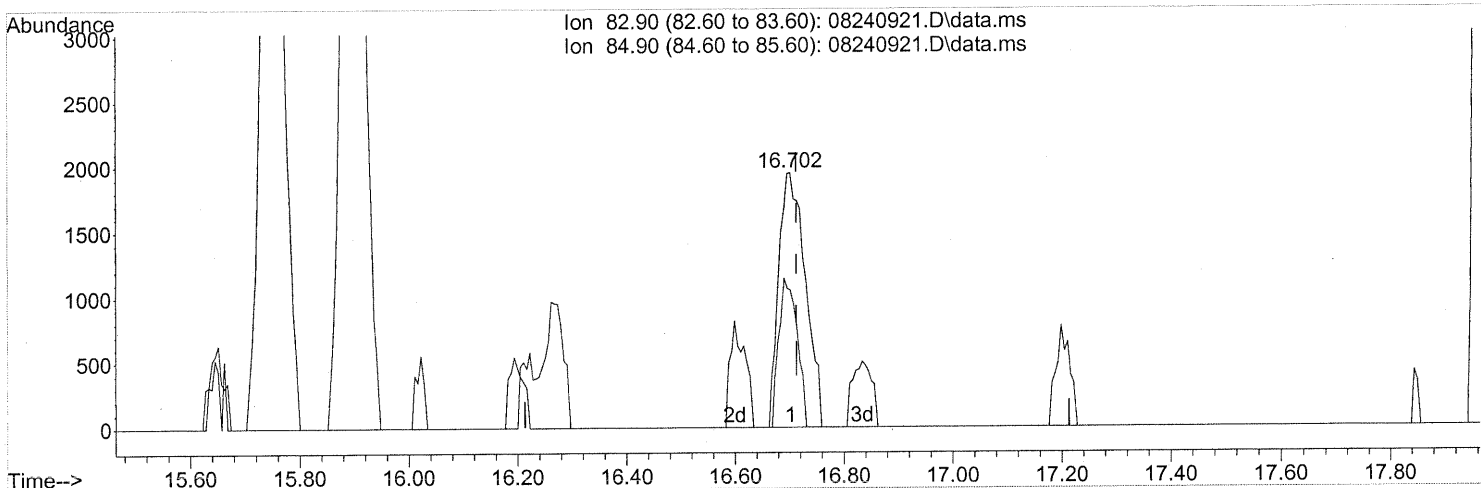
response 21390

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	37.94
56.10	107.30	119.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.702min (-0.011) 0.24ng

response 6594

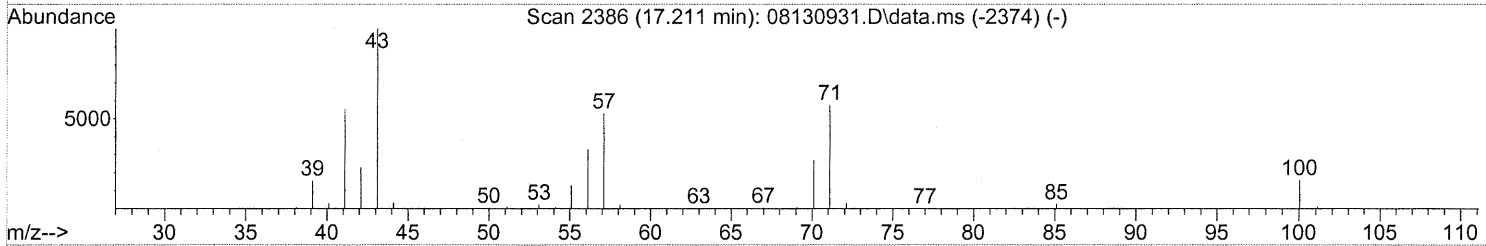
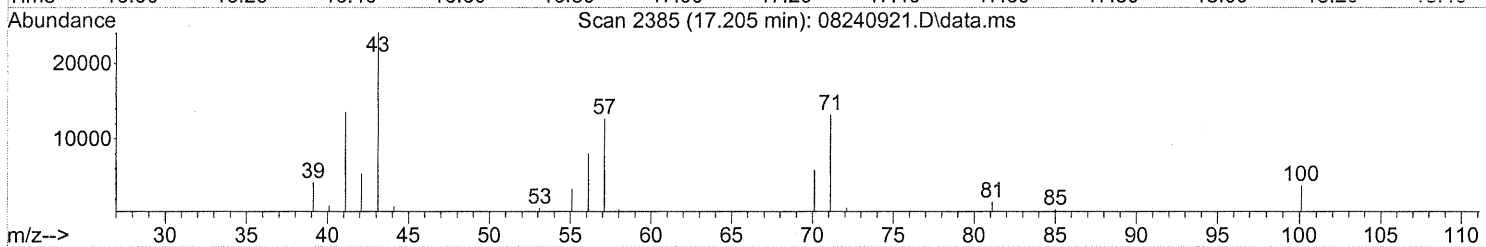
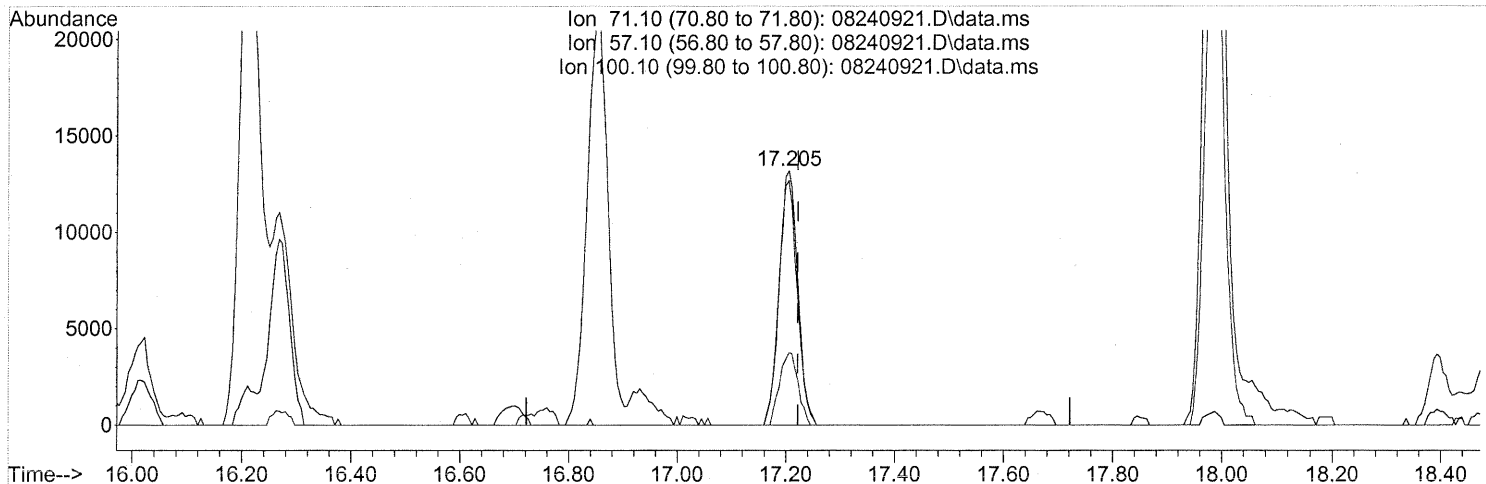
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	40.17#
0.00	0.00	0.00
0.00	0.00	0.00

FP Em 8/28/09
 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

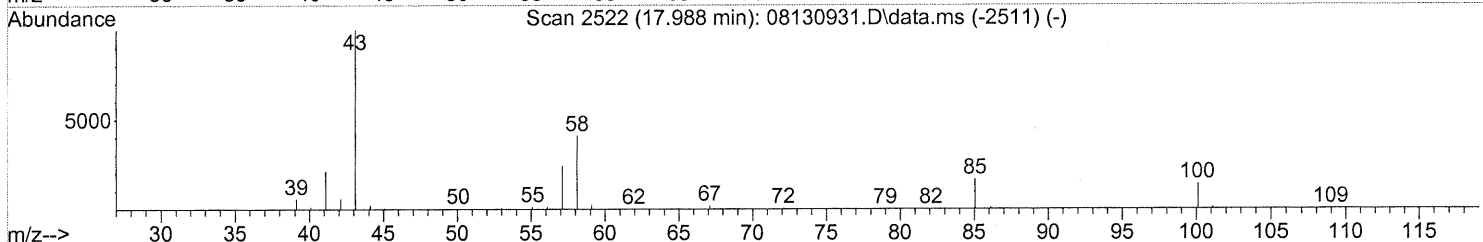
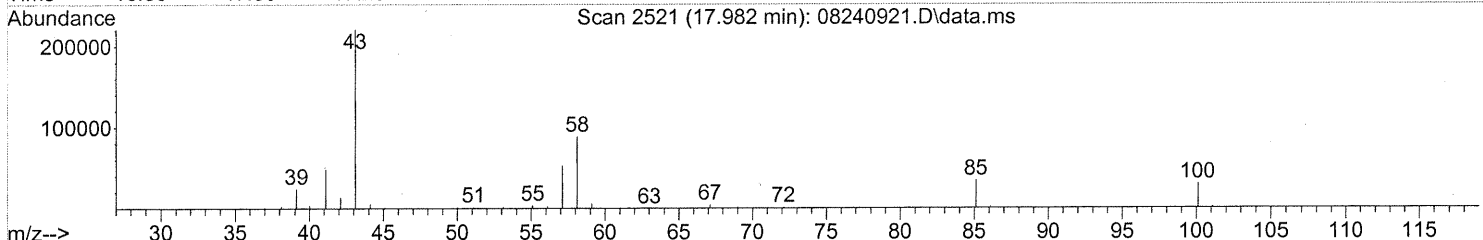
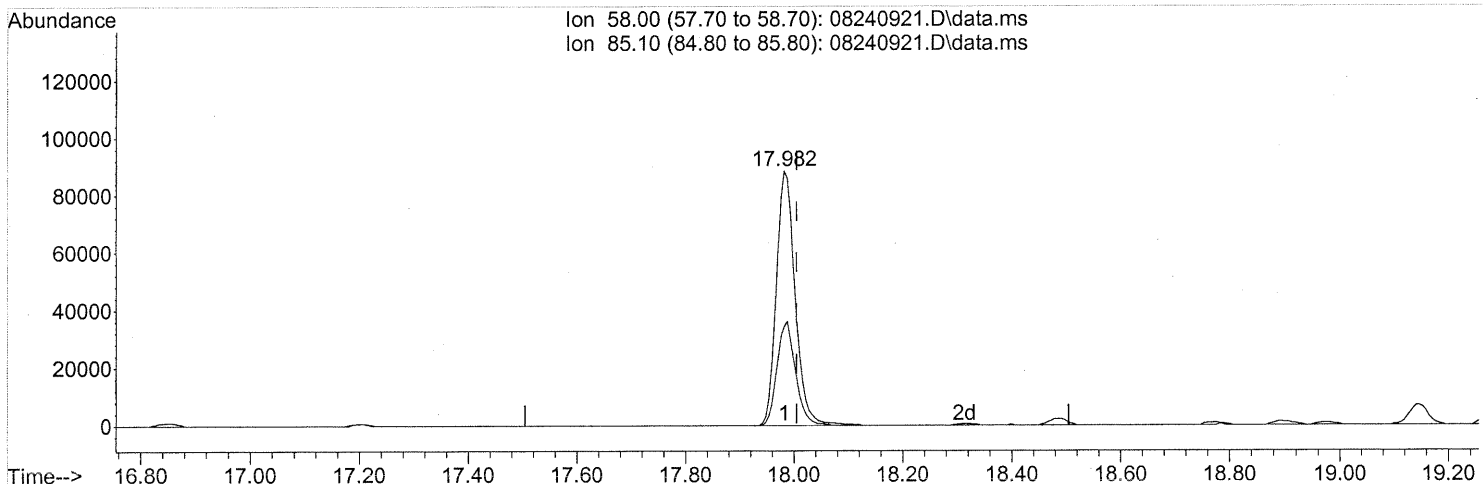
(51) n-Heptane (T)
 17.205min (-0.017) 1.24ng
 response 31141

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	94.91
100.10	30.70	28.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

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

17.982min (-0.023) 10.38ng

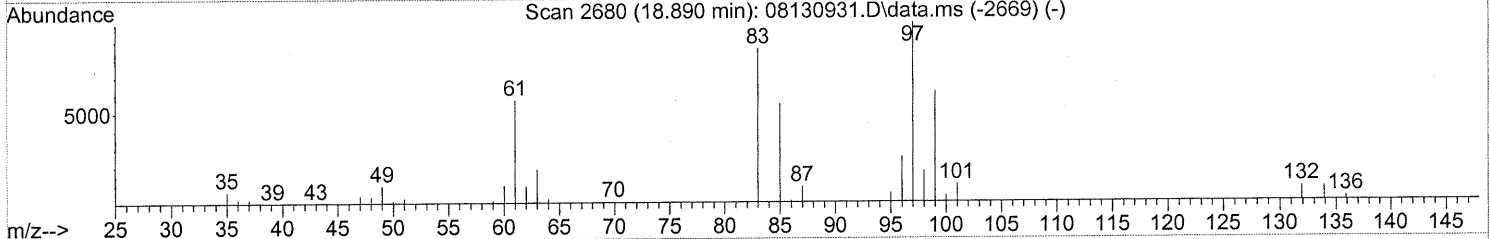
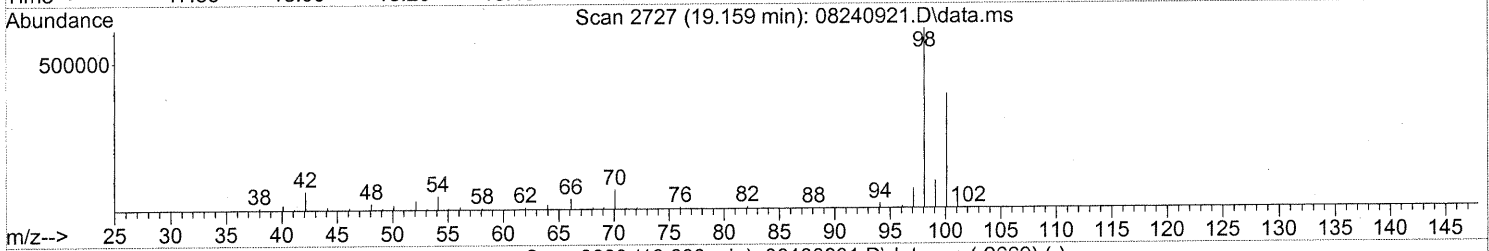
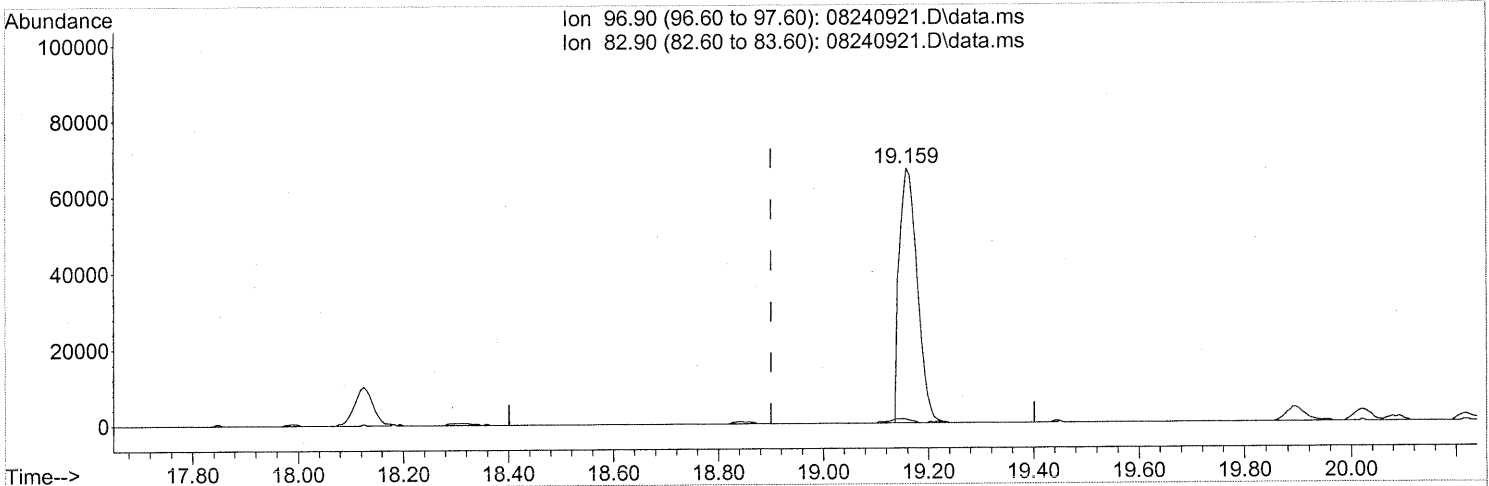
response 211573

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	39.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

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

19.159min (+0.257) 7.86ng

response 158309

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.84#
0.00	0.00	0.00
0.00	0.00	0.00

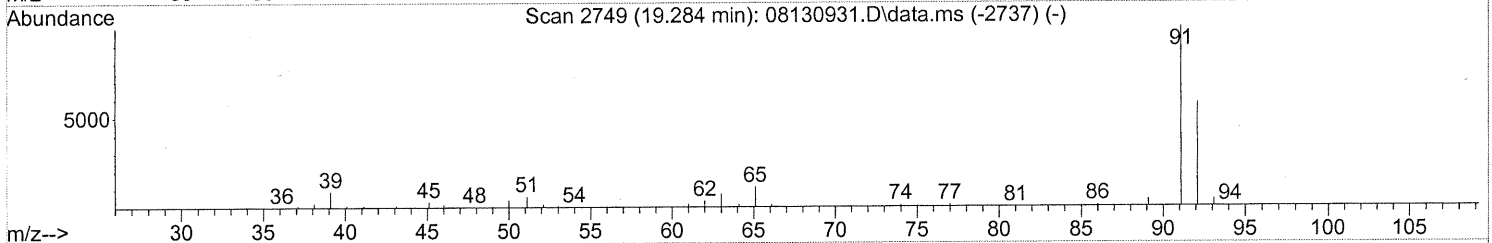
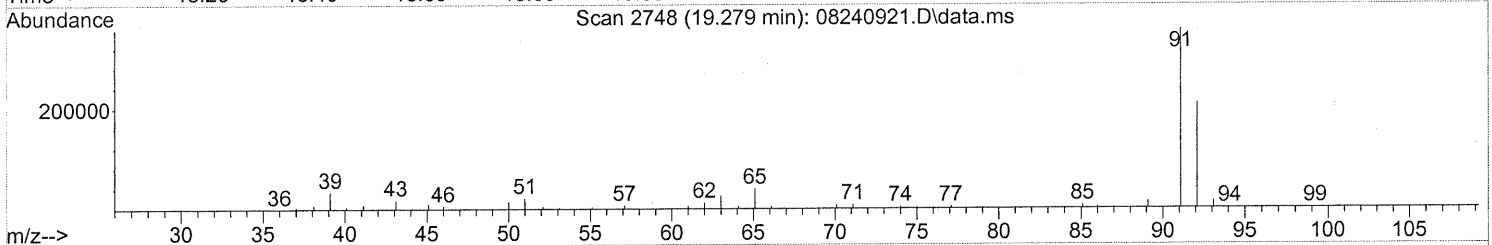
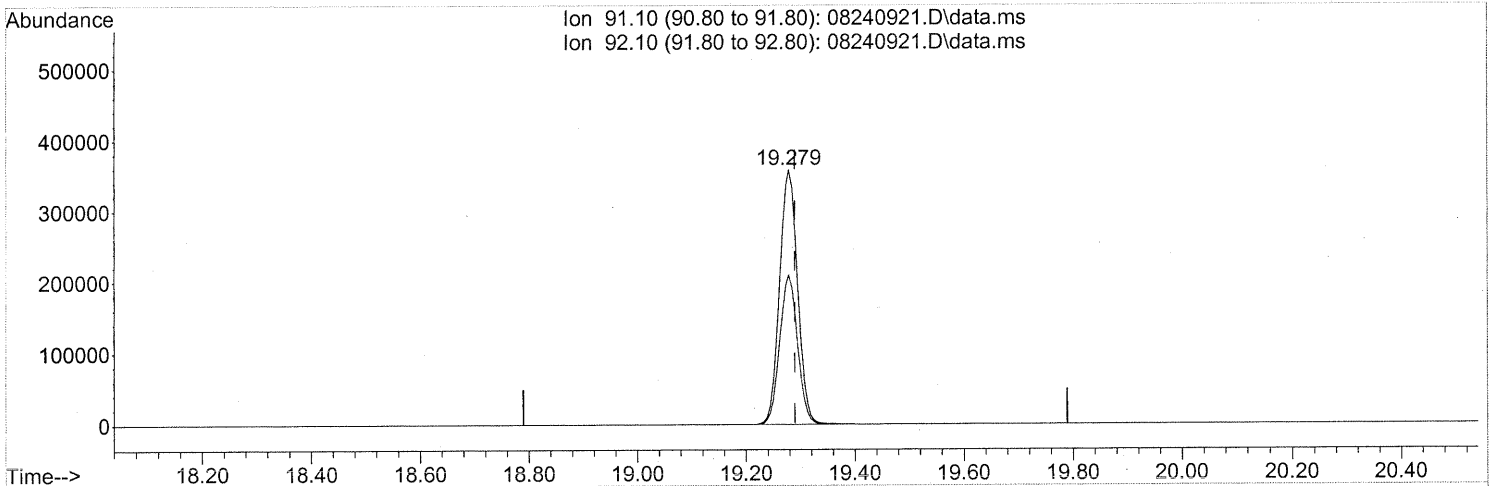
FP em 8/28/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 8.56ng

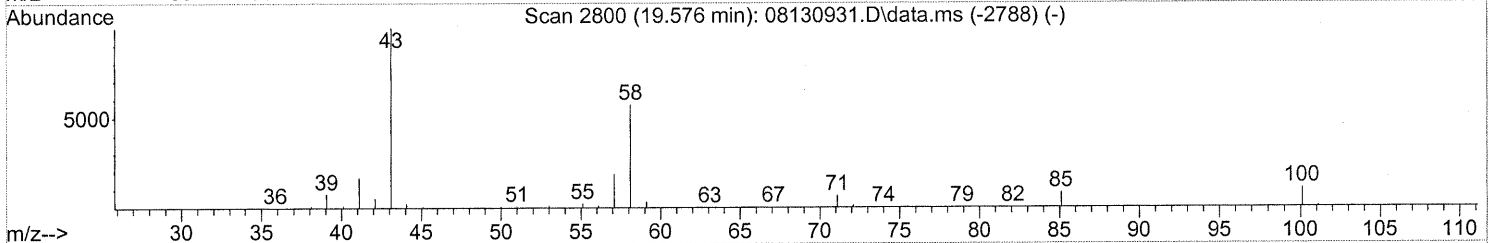
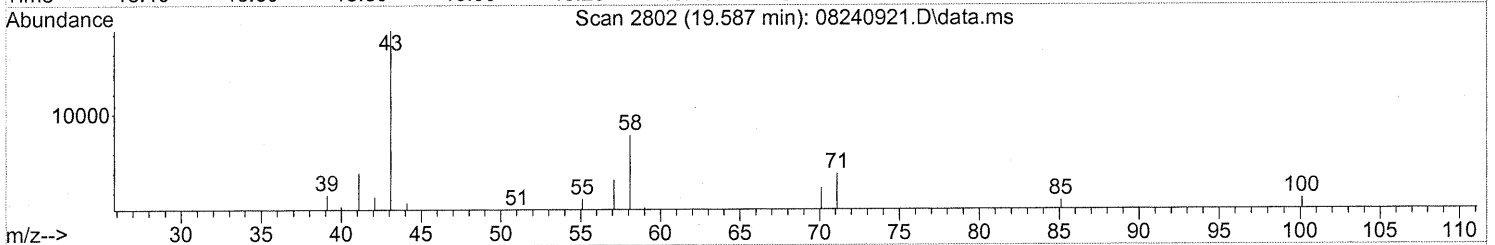
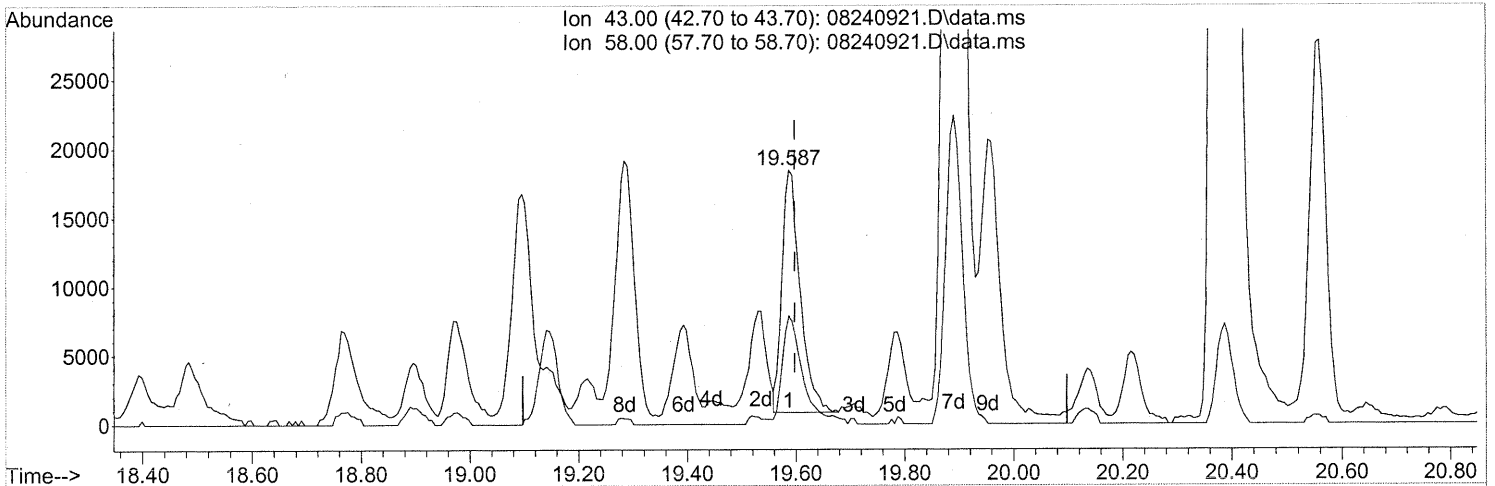
response 820367

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(59) 2-Hexanone (T)

19.587min (-0.011) 0.82ng

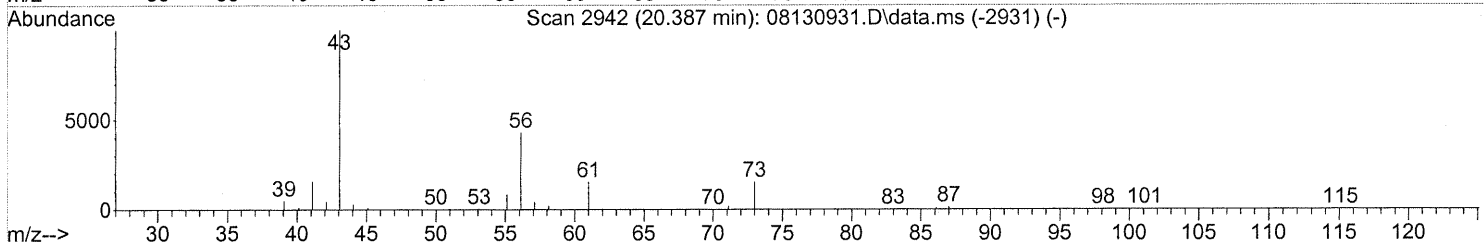
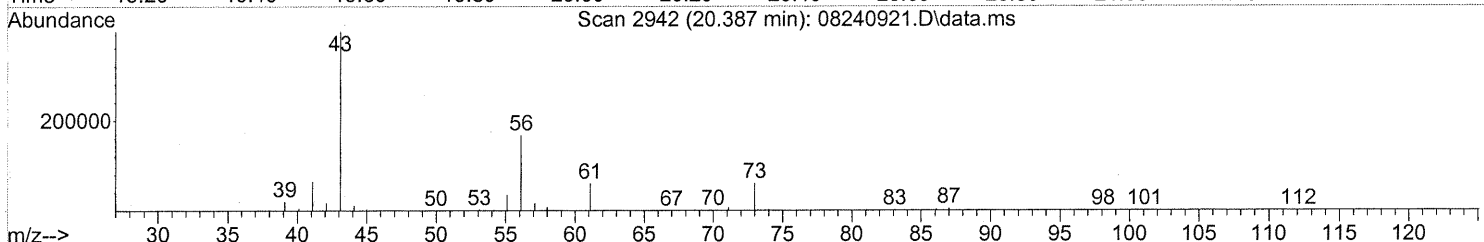
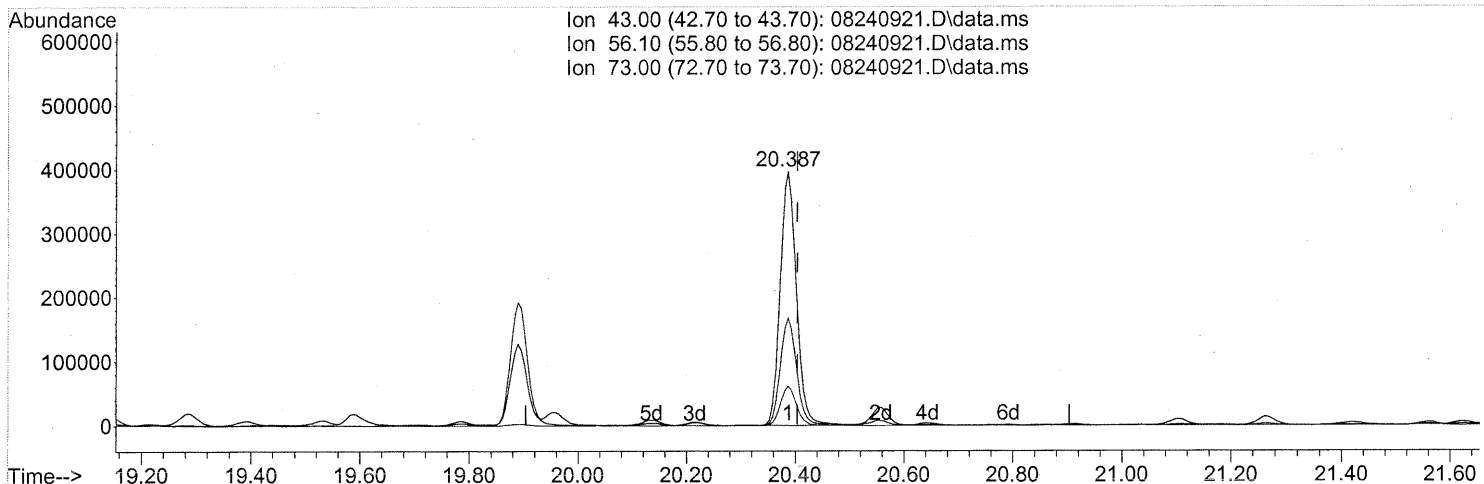
response 40791

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	50.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

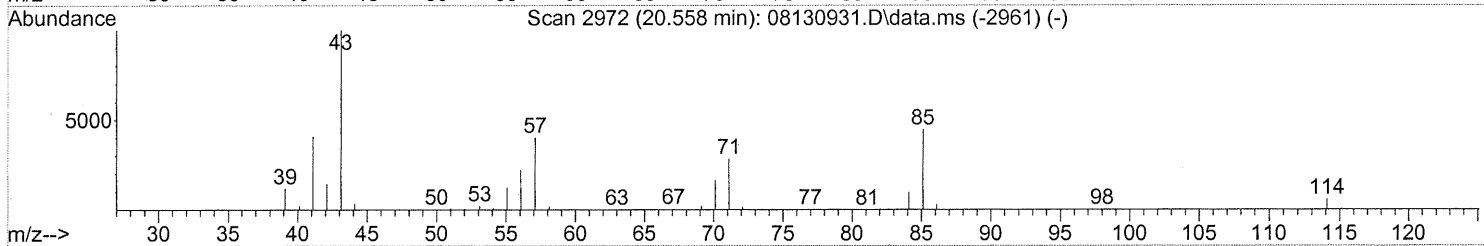
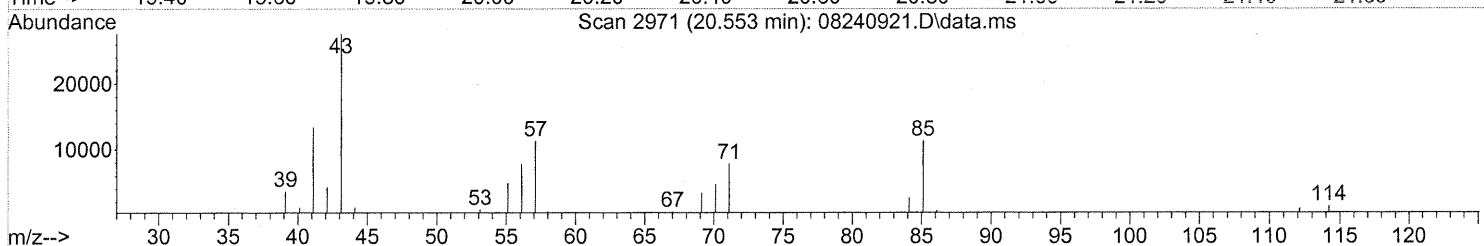
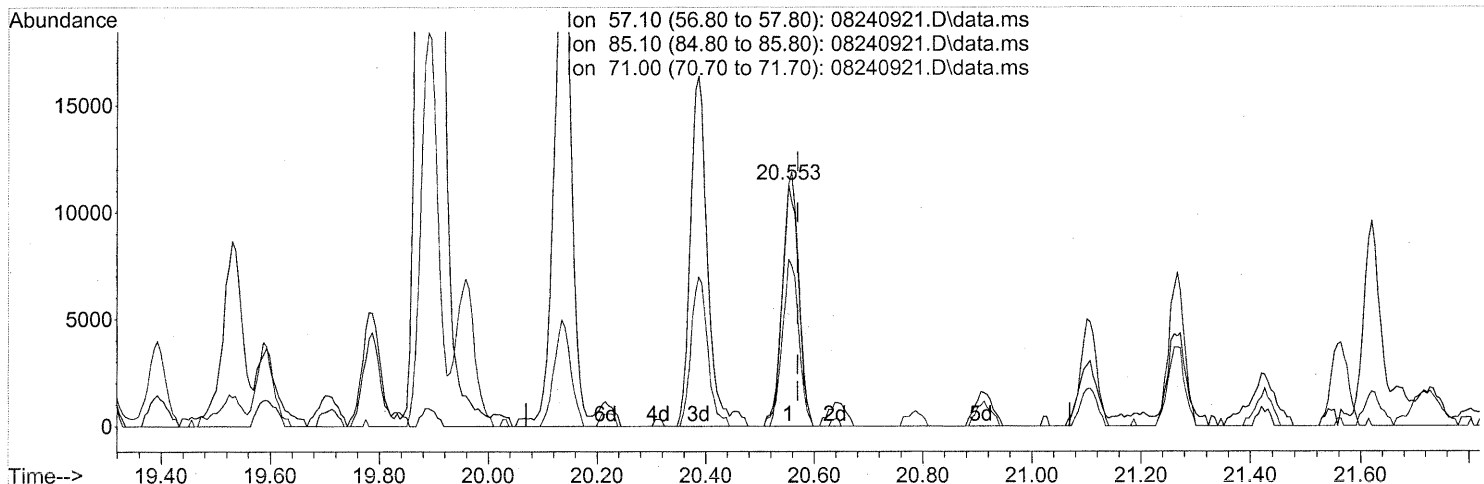
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 15.03ng
 response 816902

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	42.92
73.00	16.90	15.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(63) n-Octane (T)

20.553min (-0.017) 1.13ng

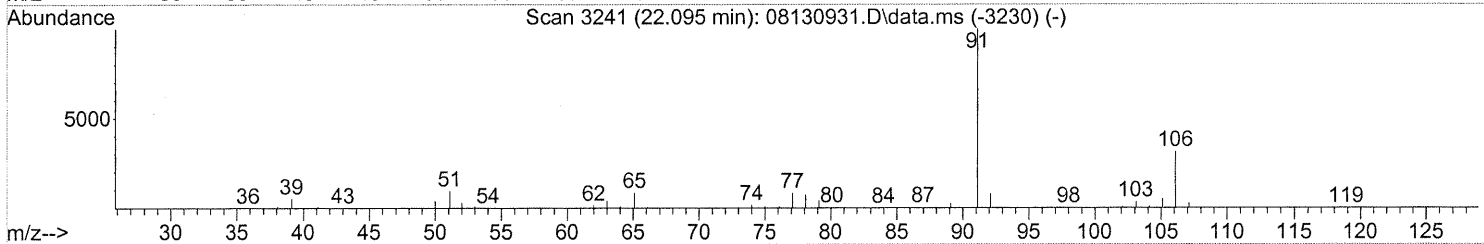
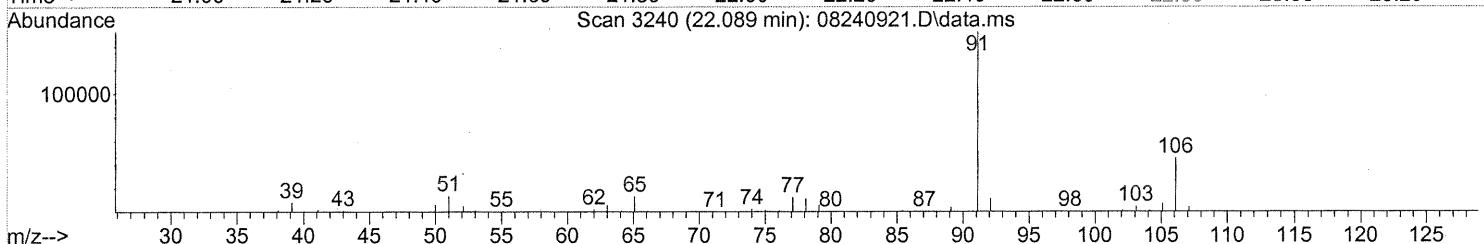
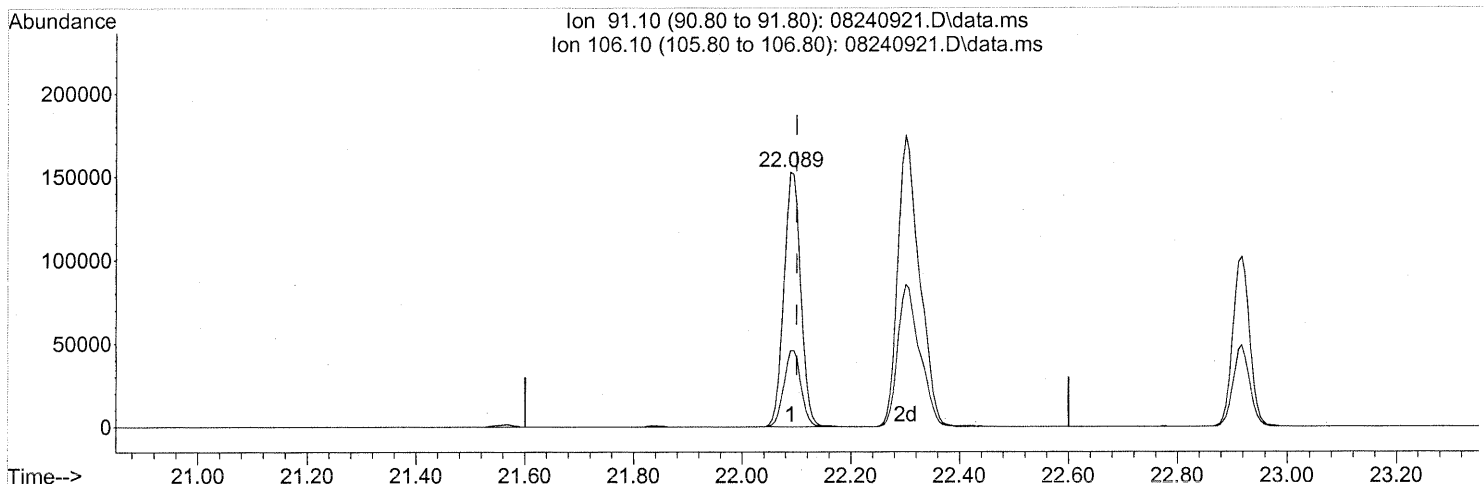
response 24153

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	100.58
71.00	75.10	68.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

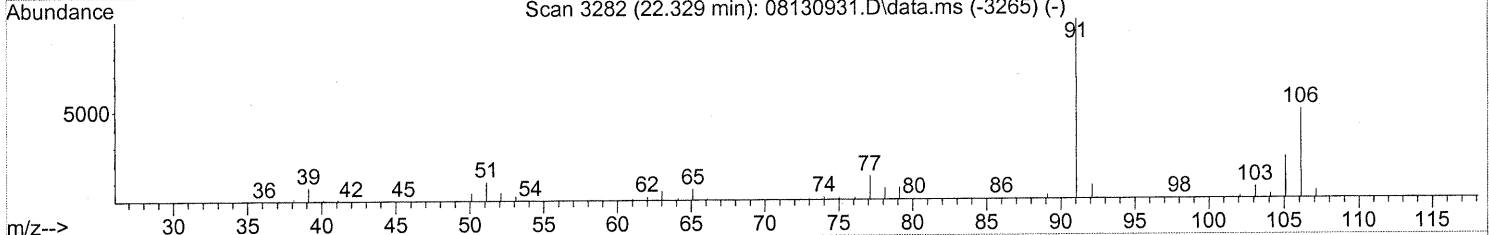
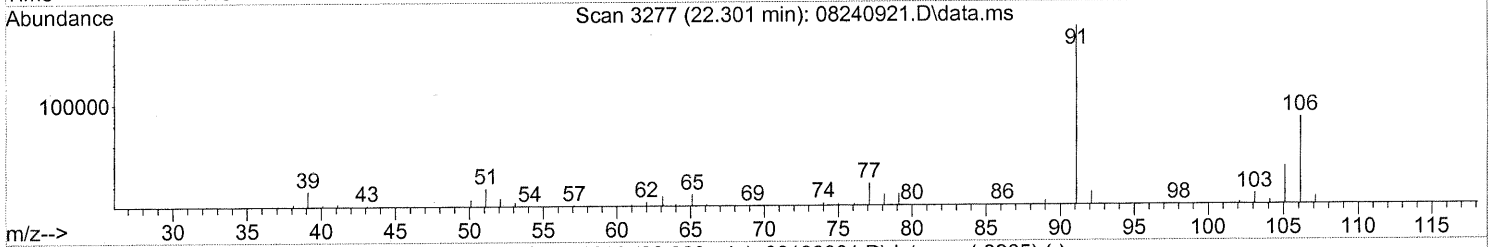
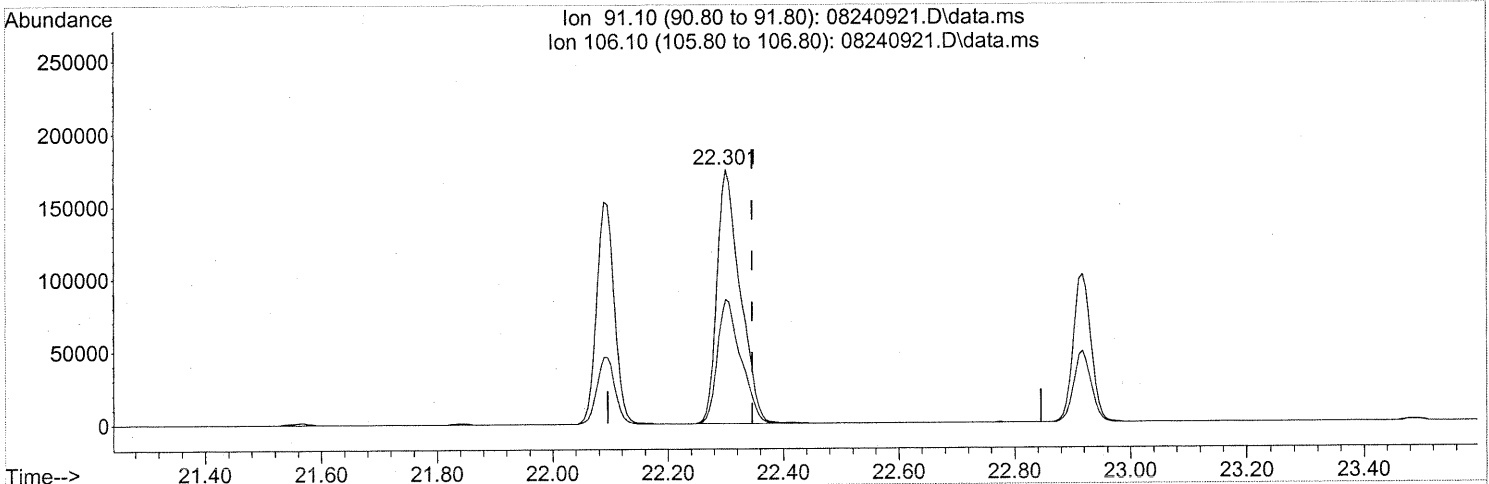
(66) Ethylbenzene (T)
 22.089min (-0.011) 3.15ng
 response 326402

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

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

22.301min (-0.046) 5.91ng

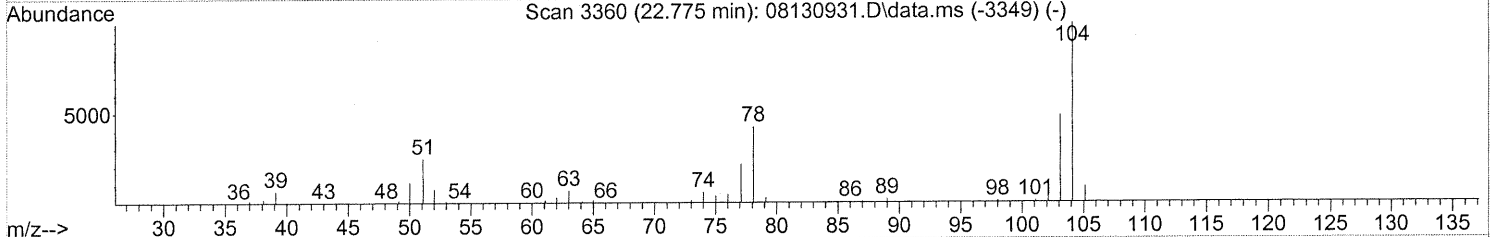
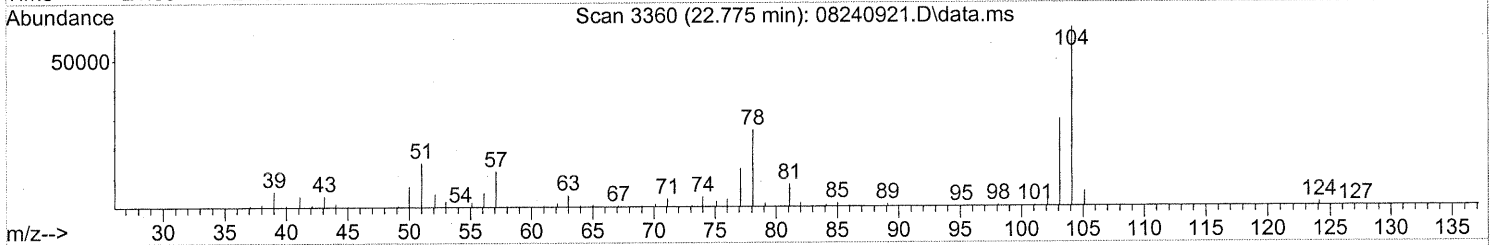
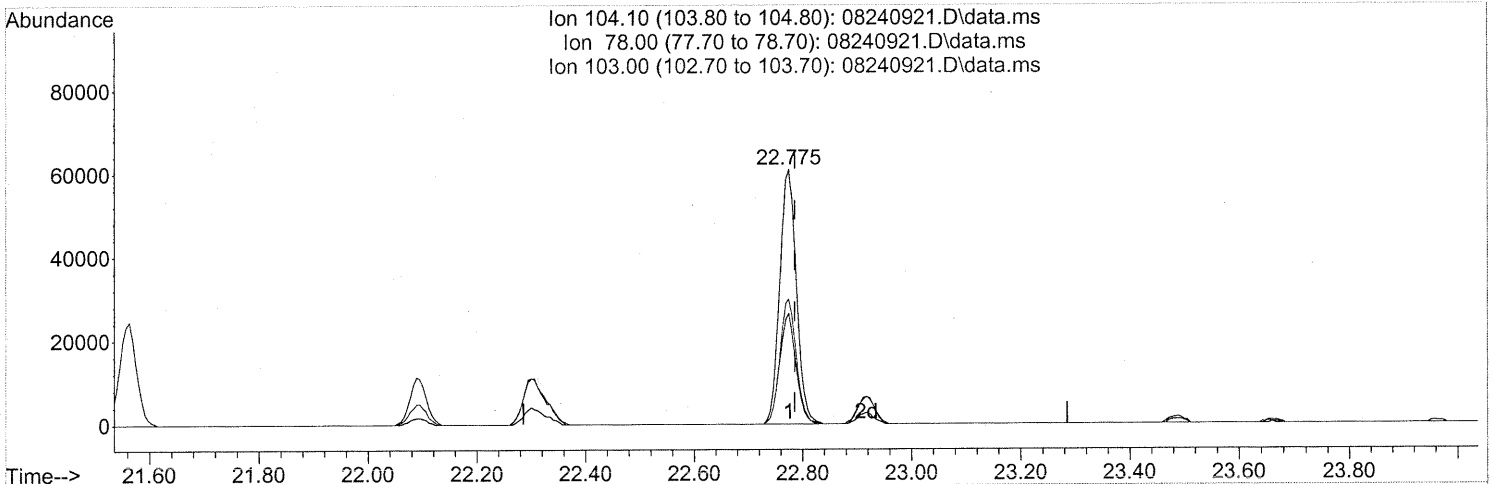
response 485053

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

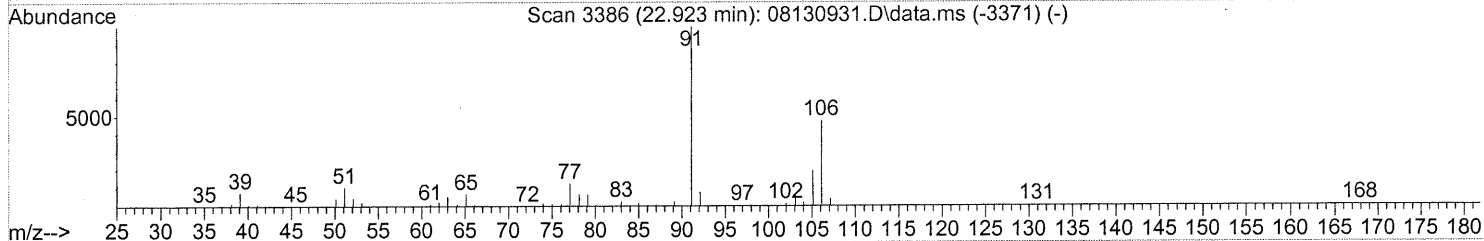
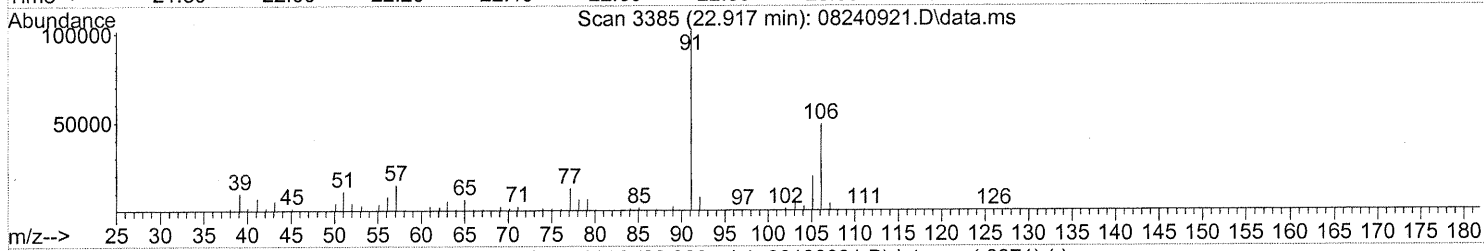
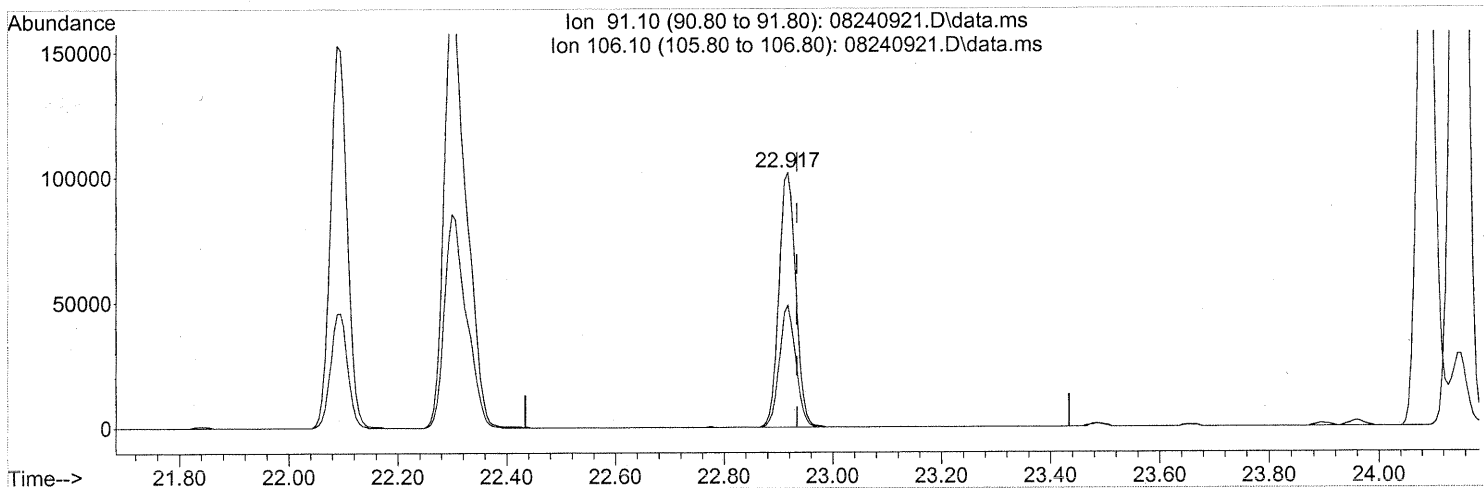
(69) Styrene (T)
 22.775min (-0.011) 2.14ng
 response 129816

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	42.11
103.00	48.70	48.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(70) o-Xylene (T)

22.917min (-0.017) 2.63ng

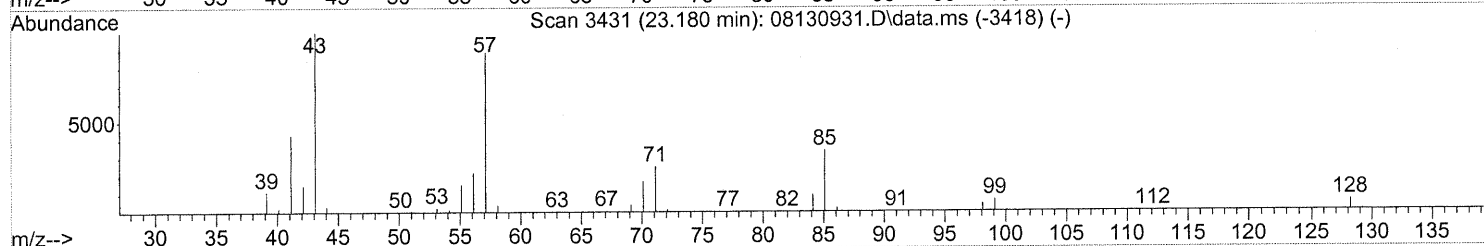
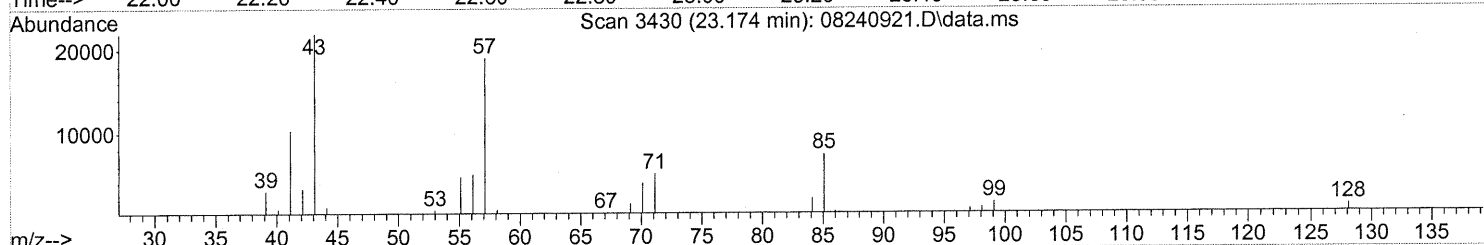
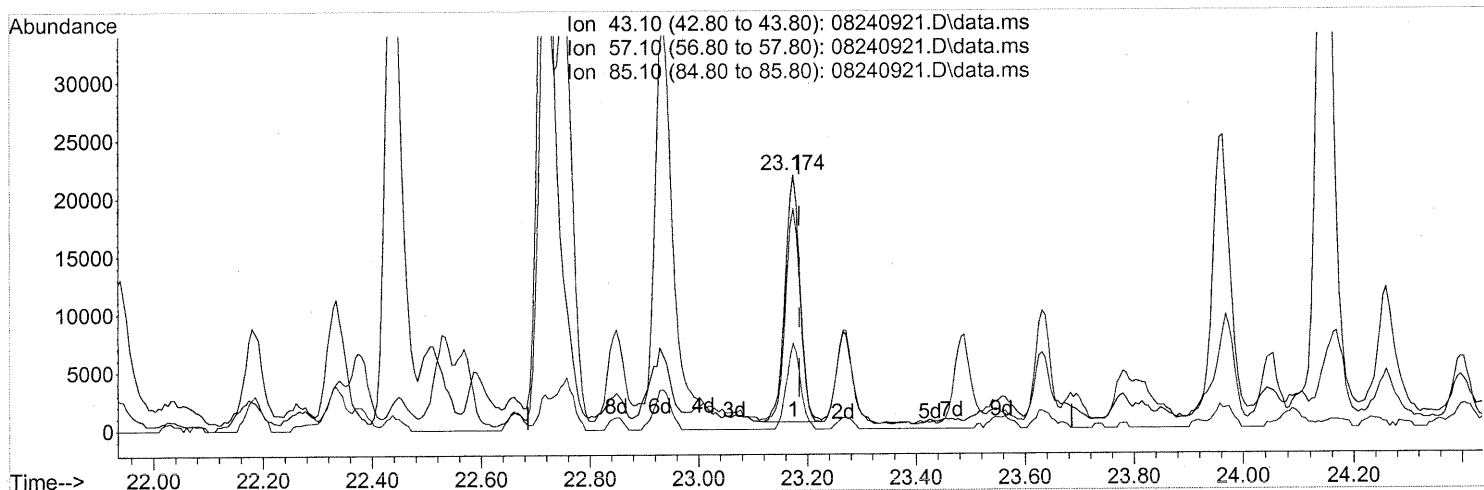
response 217059

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

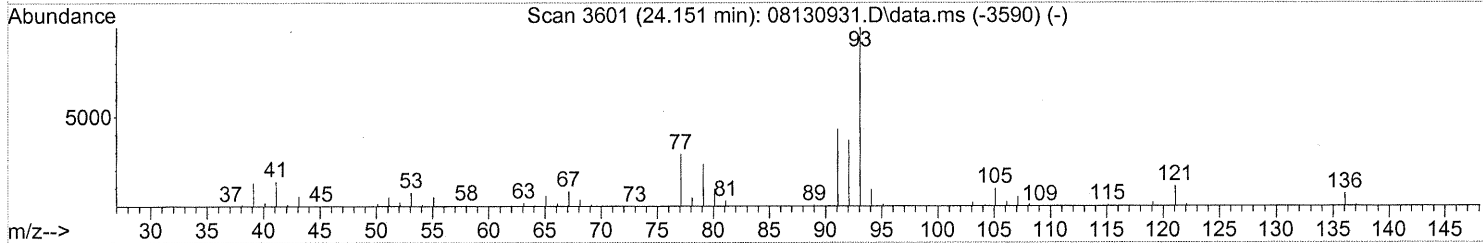
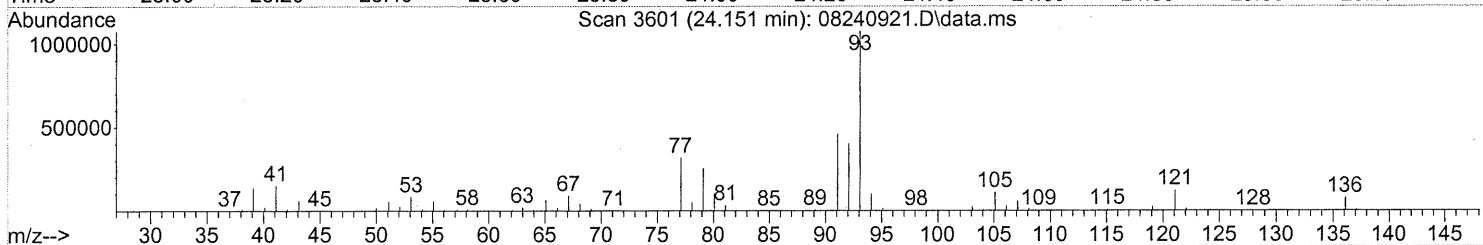
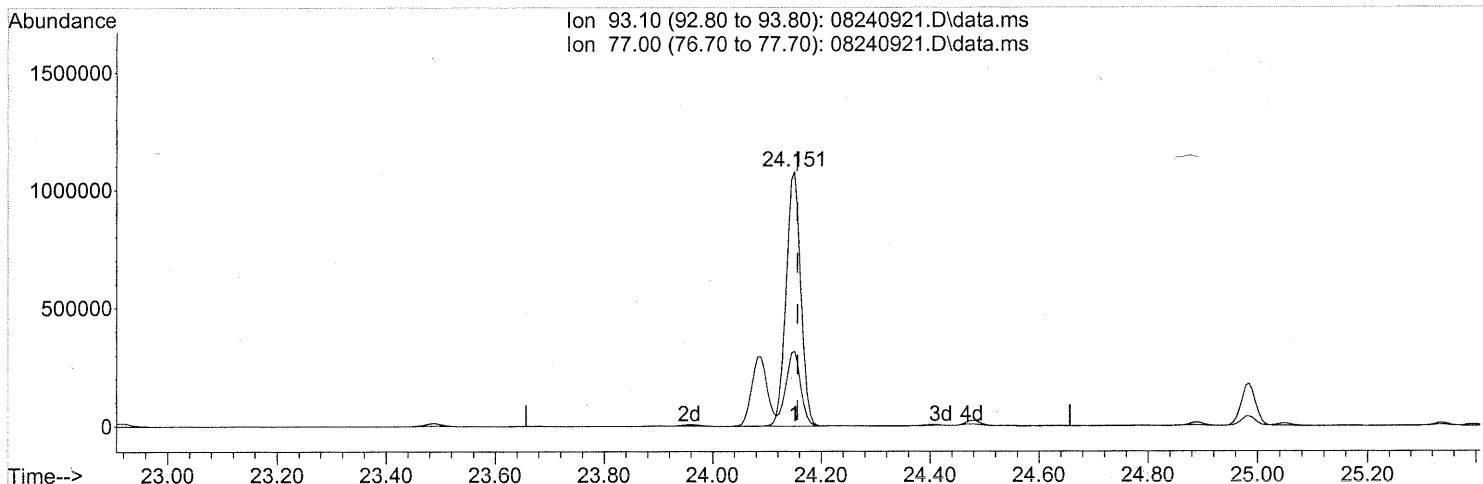
(71) n-Nonane (T)
 23.174min (-0.011) 0.84ng
 response 41537

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	85.47
85.10	38.80	31.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

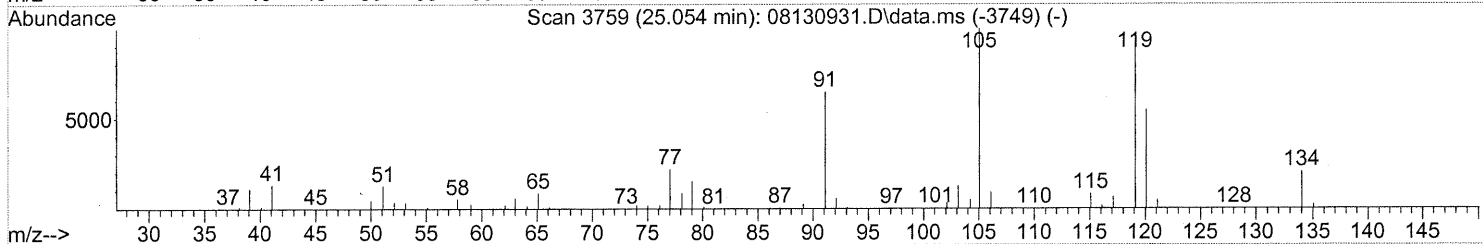
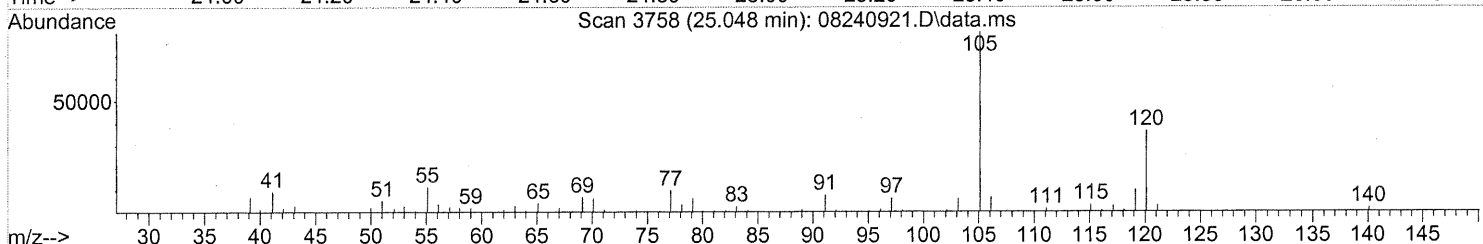
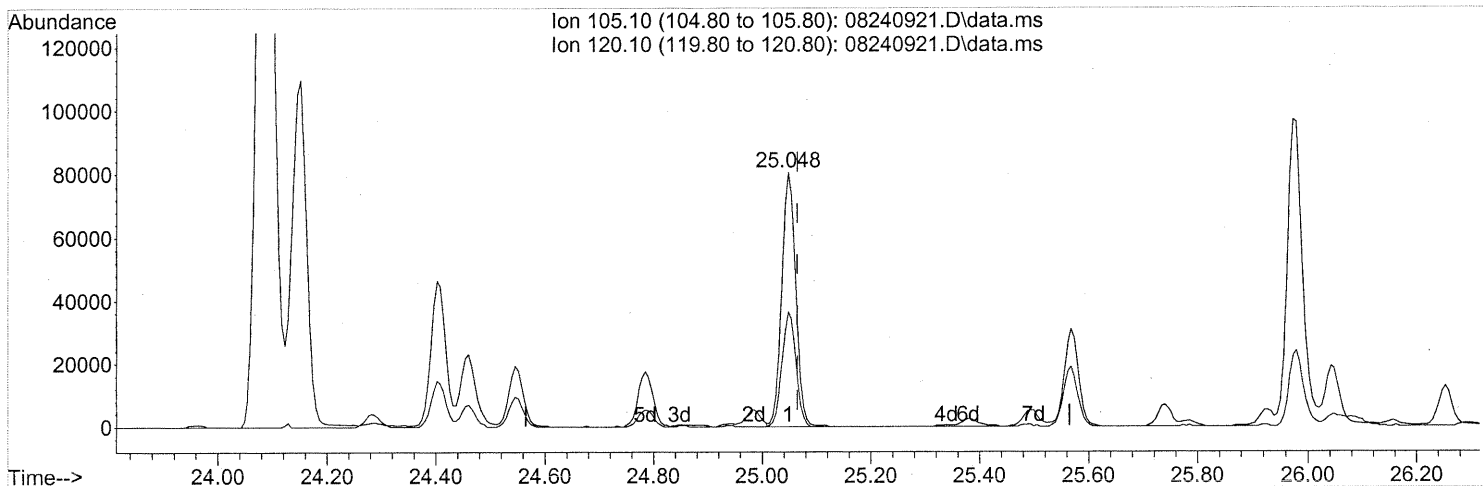
(75) alpha-Pinene (T)
 24.151min (-0.006) 38.44ng
 response 2029342

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

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

25.048min (-0.017) 1.62ng

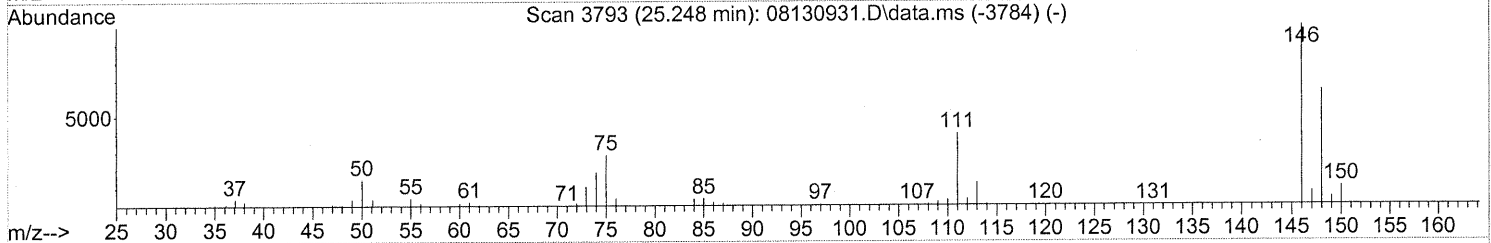
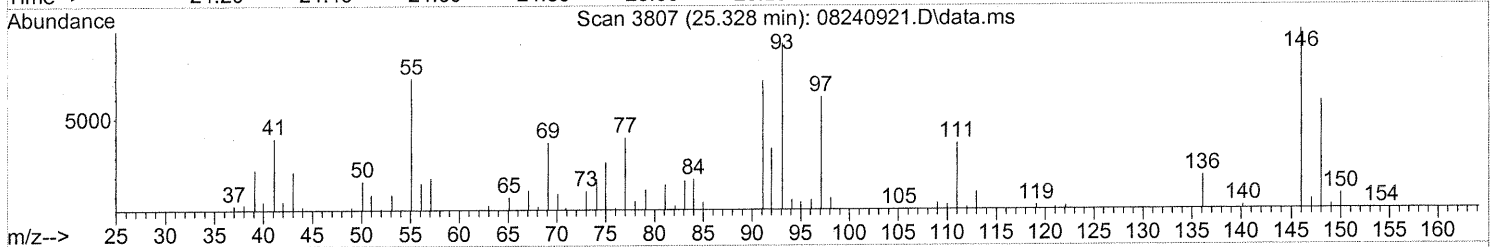
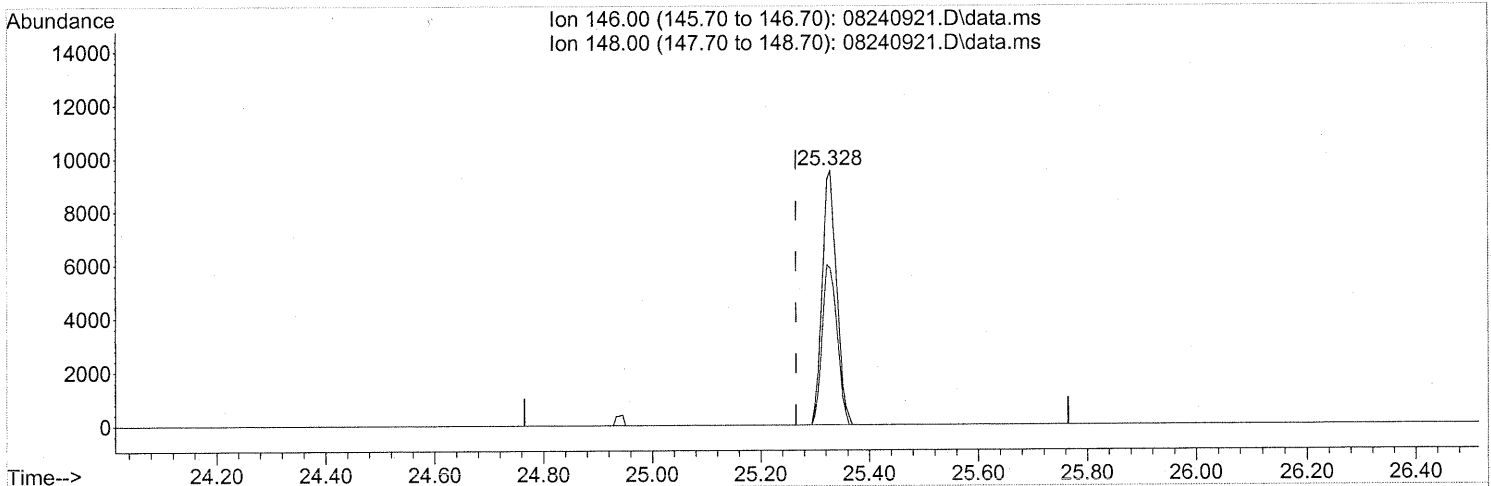
response 143568

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	44.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.328min (+0.063) 0.38ng

response 17424

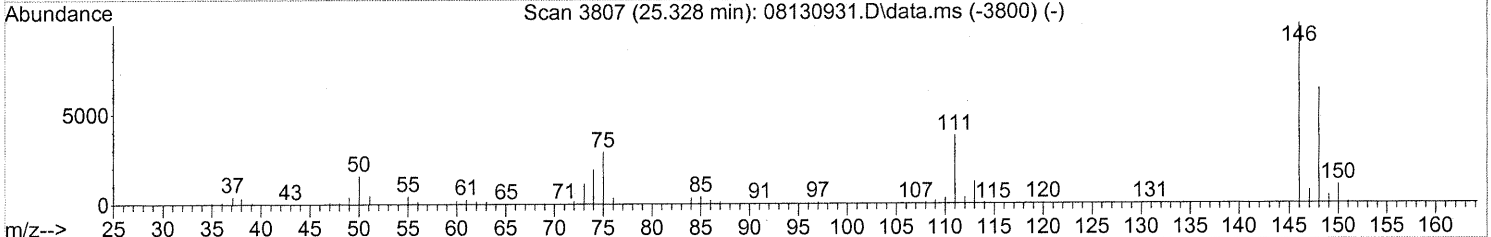
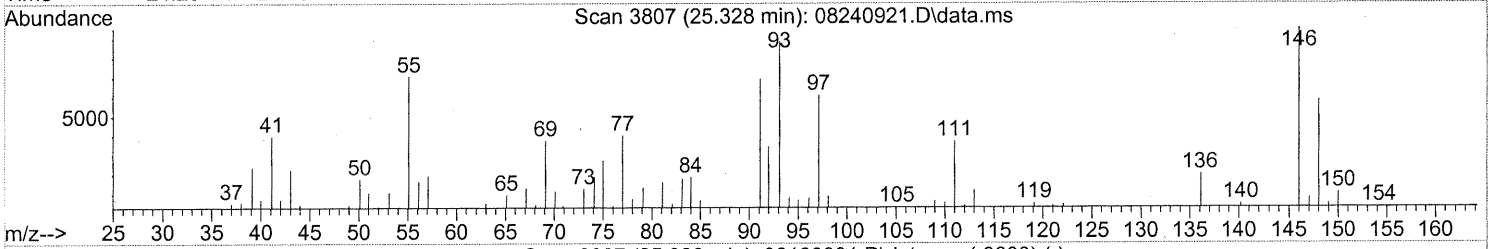
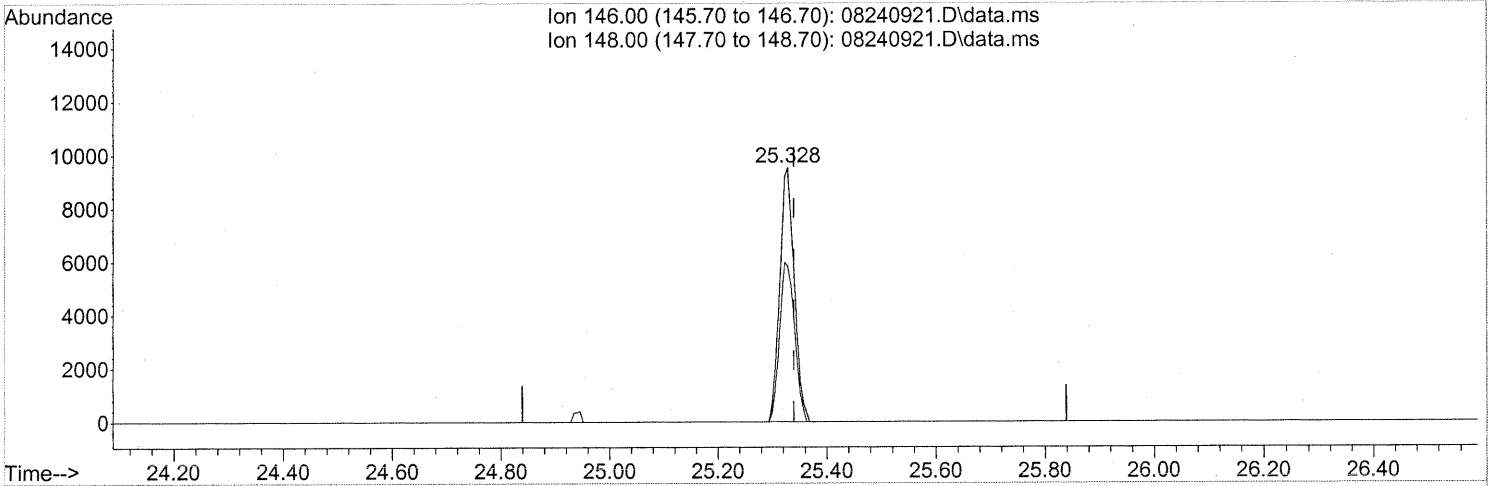
Ion	Exp%	Act%
146.00	100	100
148.00	63.60	64.93
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/28/09
@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.36ng

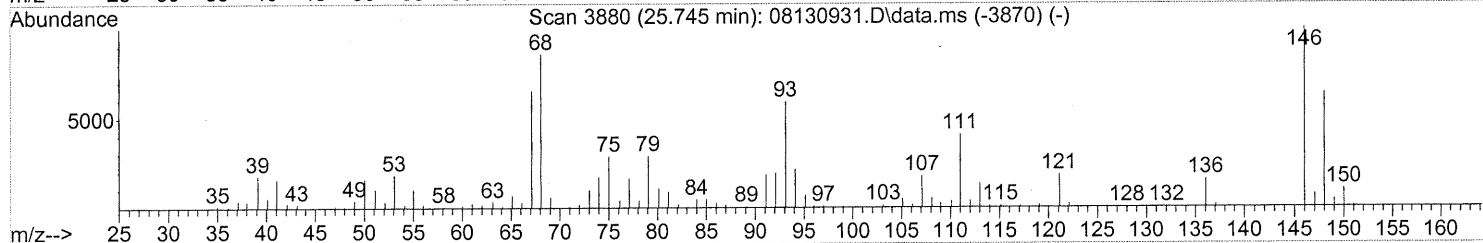
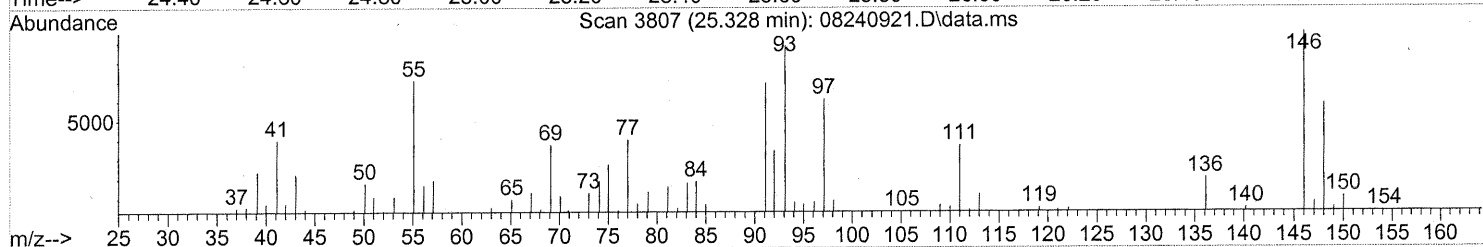
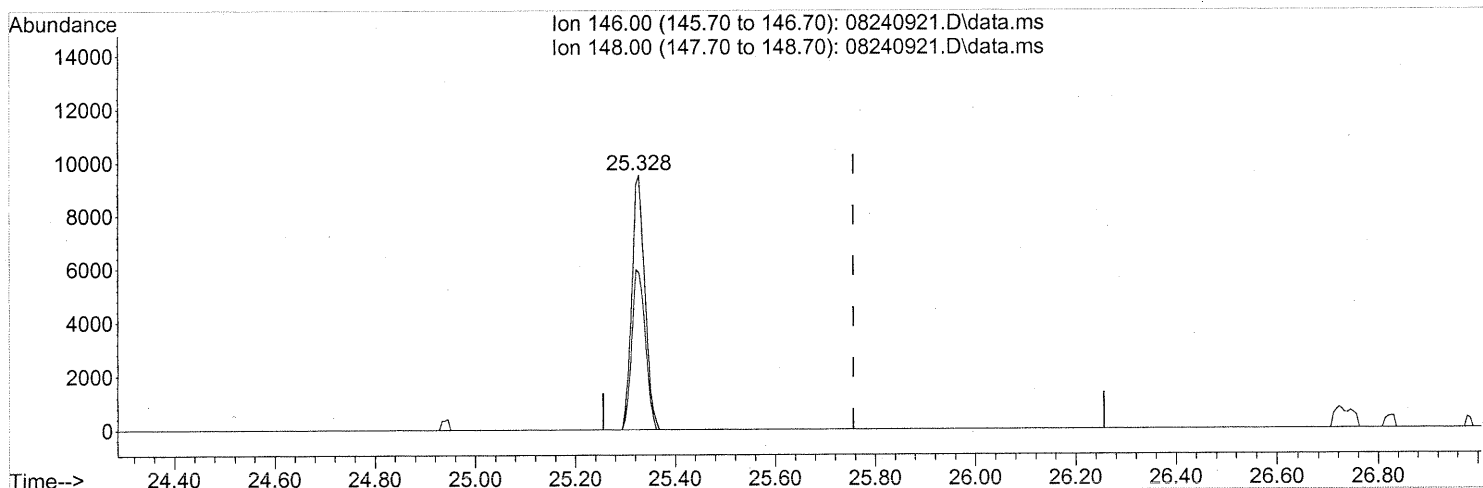
response 17424

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	64.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.328min (-0.428) 0.38ng

response 17424

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	64.93
0.00	0.00	0.00
0.00	0.00	0.00

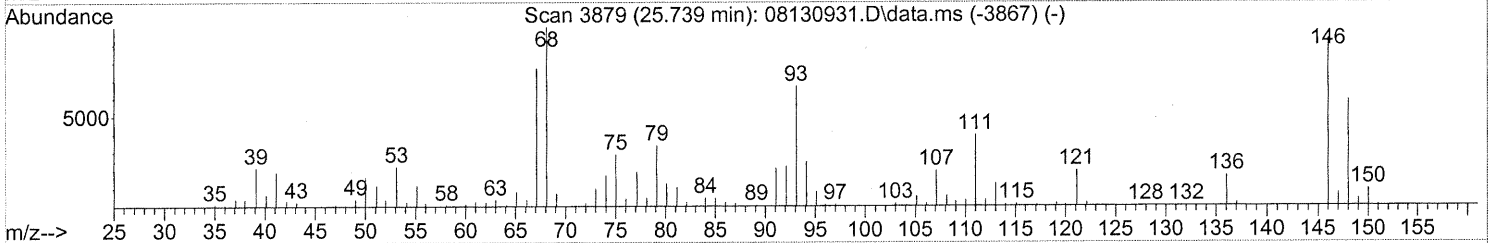
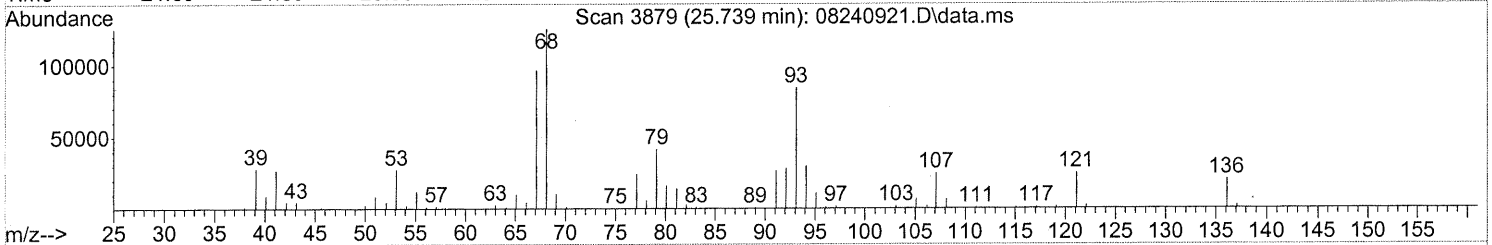
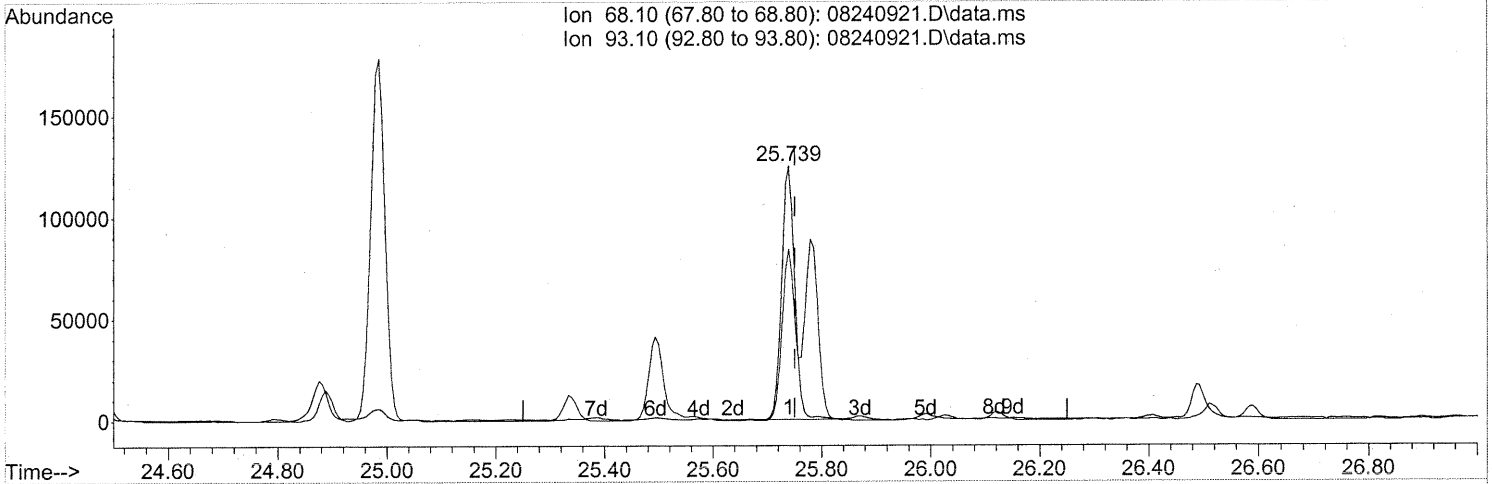
FP Em 8/28/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

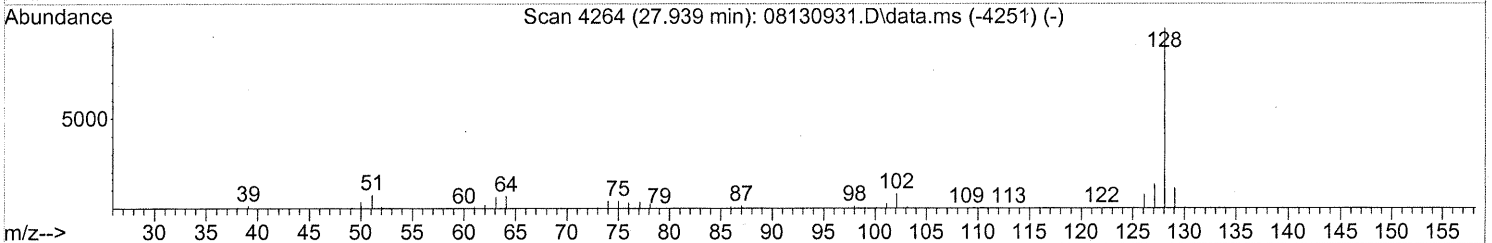
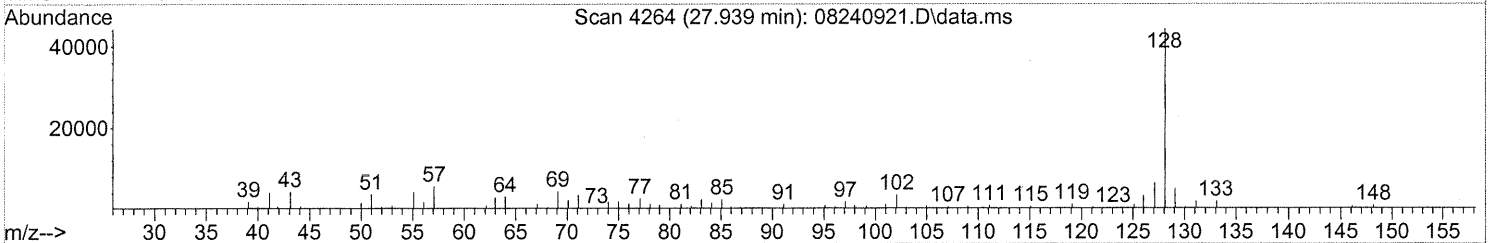
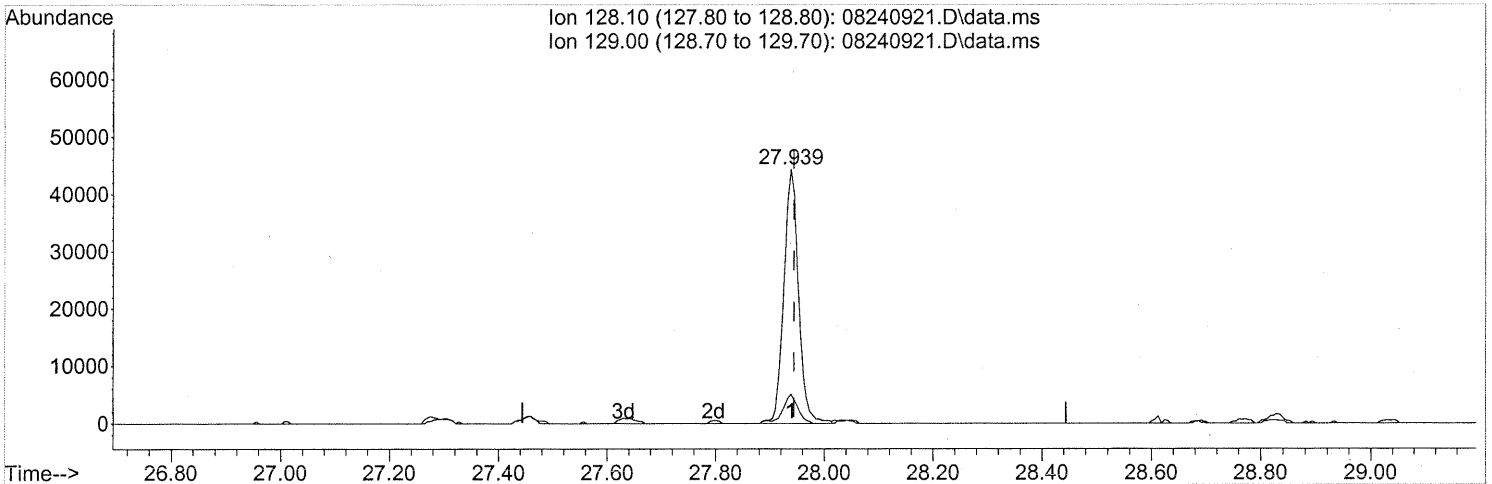
(91) d-Limonene (T)
 25.739min (-0.011) 5.76ng
 response 208550

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	65.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240921.D
 Acq On : 24 Aug 2009 22:34
 Operator : EM
 Sample : P0902832-004 (1000ml)
 Misc : Eng. H&E 101657
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 25 07:37:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240921.D\data.ms

(95) Naphthalene (T)

27.939min (-0.006) 0.70ng

response 83548

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	11.57
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, Inc.
Client Sample ID: 101658
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P0902832-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00615

Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/24/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.85	ND	0.49	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.85	0.44	0.17	
74-87-3	Chloromethane	0.44	0.17	0.21	0.082	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.85	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.17	ND	0.066	
106-99-0	1,3-Butadiene	ND	0.17	ND	0.076	
74-83-9	Bromomethane	ND	0.17	ND	0.044	
75-00-3	Chloroethane	ND	0.17	ND	0.064	
64-17-5	Ethanol	ND	8.5	ND	4.5	
75-05-8	Acetonitrile	3.4	0.85	2.0	0.50	
107-02-8	Acrolein	1.2	0.85	0.54	0.37	
67-64-1	Acetone	9.5	8.5	4.0	3.6	
75-69-4	Trichlorofluoromethane	1.2	0.17	0.21	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.85	ND	0.34	
107-13-1	Acrylonitrile	ND	0.85	ND	0.39	
75-35-4	1,1-Dichloroethene	ND	0.17	ND	0.043	
75-09-2	Methylene Chloride	ND	0.85	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	ND	0.054	
76-13-1	Trichlorotrifluoroethane	0.54	0.17	0.071	0.022	
75-15-0	Carbon Disulfide	ND	0.85	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	ND	0.043	
75-34-3	1,1-Dichloroethane	ND	0.17	ND	0.042	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	ND	0.047	
108-05-4	Vinyl Acetate	ND	8.5	ND	2.4	
78-93-3	2-Butanone (MEK)	1.2	0.85	0.42	0.29	

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: 8/31/09 **210**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101658

Client Project ID: 16512

CAS Project ID: P0902832

CAS Sample ID: P0902832-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00615

Date Collected: 8/13/09
 Date Received: 8/18/09
 Date Analyzed: 8/24/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	ND	0.043	
141-78-6	Ethyl Acetate	ND	1.7	ND	0.47	
110-54-3	n-Hexane	ND	0.85	ND	0.24	
67-66-3	Chloroform	0.21	0.17	0.043	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.85	ND	0.29	
107-06-2	1,2-Dichloroethane	ND	0.17	ND	0.042	
71-55-6	1,1,1-Trichloroethane	ND	0.17	ND	0.031	
71-43-2	Benzene	0.36	0.17	0.11	0.053	
56-23-5	Carbon Tetrachloride	0.46	0.17	0.074	0.027	
110-82-7	Cyclohexane	ND	0.85	ND	0.25	
78-87-5	1,2-Dichloropropane	ND	0.17	ND	0.037	
75-27-4	Bromodichloromethane	ND	0.17	ND	0.025	
79-01-6	Trichloroethene	ND	0.17	ND	0.031	
123-91-1	1,4-Dioxane	ND	0.85	ND	0.23	
80-62-6	Methyl Methacrylate	ND	1.7	ND	0.41	
142-82-5	n-Heptane	ND	0.85	ND	0.21	
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	0.85	ND	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	ND	0.19	
79-00-5	1,1,2-Trichloroethane	ND	0.17	ND	0.031	
108-88-3	Toluene	1.3	0.85	0.36	0.22	
591-78-6	2-Hexanone	ND	0.85	ND	0.21	
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	ND	0.85	ND	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: _____

9/10/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101658
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P0902832-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00615

Date Collected: 8/13/09
 Date Received: 8/18/09
 Date Analyzed: 8/24/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.4	0.85	0.30	0.18	
127-18-4	Tetrachloroethene	0.21	0.17	0.031	0.025	
108-90-7	Chlorobenzene	ND	0.17	ND	0.037	
100-41-4	Ethylbenzene	ND	0.85	ND	0.19	
179601-23-1	m,p-Xylenes	ND	0.85	ND	0.19	
75-25-2	Bromoform	ND	0.85	ND	0.082	
100-42-5	Styrene	ND	0.85	ND	0.20	
95-47-6	o-Xylene	ND	0.85	ND	0.19	
111-84-2	n-Nonane	ND	0.85	ND	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	ND	0.025	
98-82-8	Cumene	ND	0.85	ND	0.17	
80-56-8	alpha-Pinene	ND	0.85	ND	0.15	
103-65-1	n-Propylbenzene	ND	0.85	ND	0.17	
622-96-8	4-Ethyltoluene	ND	0.85	ND	0.17	
108-67-8	1,3,5-Trimethylbenzene	ND	0.85	ND	0.17	
95-63-6	1,2,4-Trimethylbenzene	ND	0.85	ND	0.17	
100-44-7	Benzyl Chloride	ND	0.17	ND	0.033	
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	ND	0.85	ND	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.85	ND	0.087	
120-82-1	1,2,4-Trichlorobenzene	ND	0.85	ND	0.11	
91-20-3	Naphthalene	ND	0.85	ND	0.16	
87-68-3	Hexachlorobutadiene	ND	0.85	ND	0.079	

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

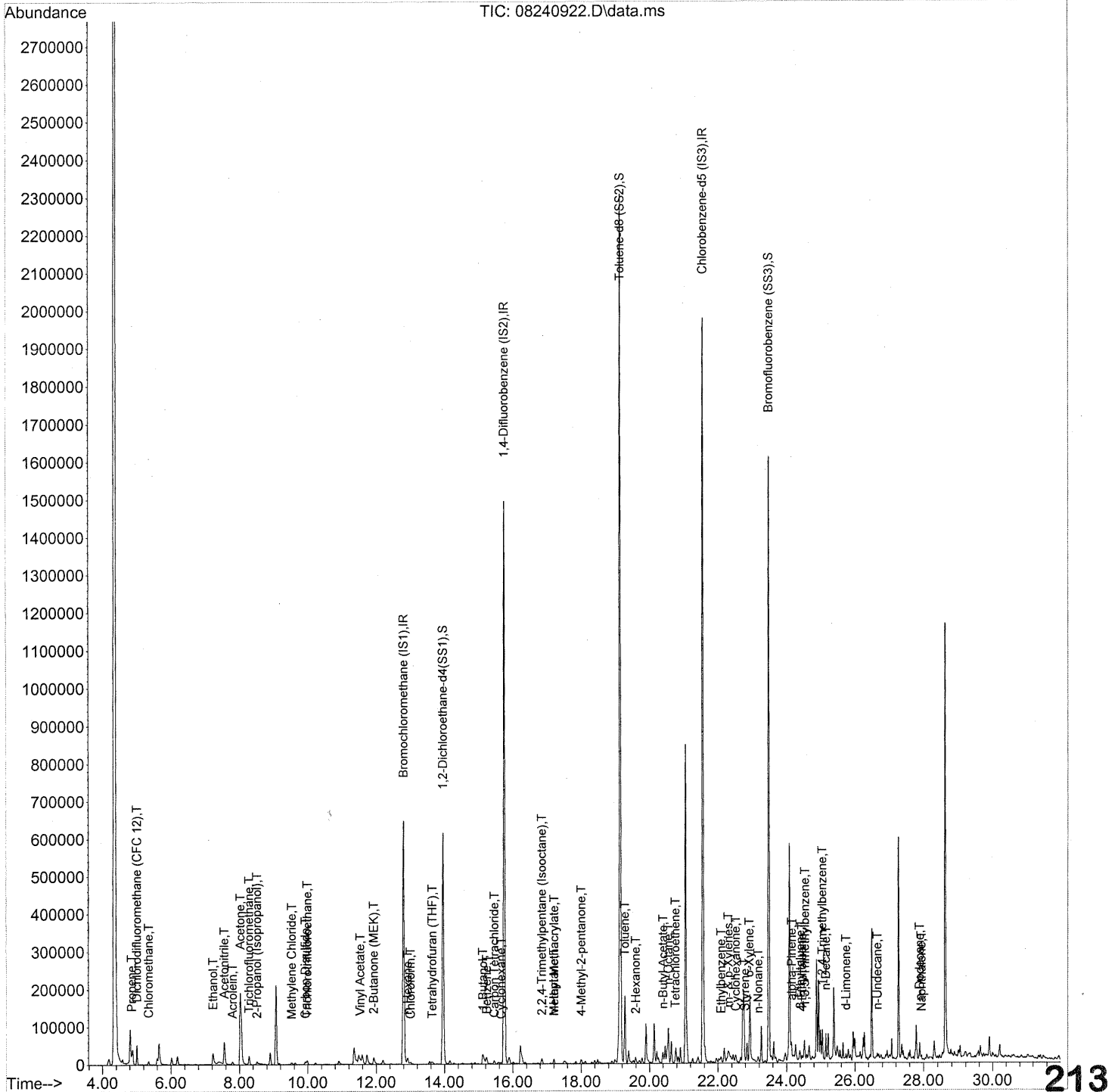
Date: _____

8/31/09

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Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 27 13:58:47 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml) ✓
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 27 13:58:47 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	344093	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1773456	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	852335	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	608958	25.029	ng	-0.03
Spiked Amount	25.000			Recovery	=	100.12% ✓
57) Toluene-d8 (SS2)	19.15	98	2049265	25.291	ng	-0.01 ✓
Spiked Amount	25.000			Recovery	=	101.16% ✓
73) Bromofluorobenzene (SS3)	23.49	174	581048	25.321	ng	0.00 ✓
Spiked Amount	25.000			Recovery	=	101.28% ✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	9707	0.322	ng	# 1
3) Dichlorodifluoromethan...	5.01	85	55382	1.285	ng	99
4) Chloromethane	5.35	50	10390	0.259	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	998	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.11	54	123	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.23	45	88303m	4.664	ng	
11) Acetonitrile	7.56	41	92050	1.992	ng	98
12) Acrolein	7.80	56	9089	0.736	ng	98
13) Acetone	8.03	58	108573m	5.635	ng	
14) Trichlorofluoromethane	8.28	101	25198	0.684	ng	98
15) 2-Propanol (Isopropanol)	8.51	45	8821	0.167	ng	79
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	222	N.D.		
19) Methylene Chloride	9.53	84	2579	0.107	ng	79
20) 3-Chloro-1-propene (Al...	9.62	41	975	N.D.		
21) Trichlorotrifluoroethane	9.98	151	5301	0.321	ng	97
22) Carbon Disulfide	9.93	76	15491	0.183	ng	90
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	11.35	73	111	N.D.		
26) Vinyl Acetate	11.53	86	5515	1.322	ng	# 1
27) 2-Butanone (MEK)	11.93	72	9763	0.727	ng	# 64
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	12.92	57	9351	0.220	ng	8

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Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 27 13:58:47 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	13.01	83	4366	0.123 ng	89
34) Tetrahydrofuran (THF)	13.64	72	2534	0.181 ng #	60
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	15.12	56	35493	1.544 ng	83
41) Benzene	15.23	78	20095	0.211 ng	95
42) Carbon Tetrachloride	15.46	117	7340	0.275 ng	98
43) Cyclohexane	15.65	84	2039	0.055 ng #	12
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...	16.85	57	16596	0.151 ng	91
50) Methyl Methacrylate	17.21	100	542	0.057 ng #	1
51) n-Heptane	17.20	71	3443	0.136 ng	88
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	18.00	58	3924	0.190 ng	85
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	19.28	91	78163	0.796 ng	100
59) 2-Hexanone	19.60	43	13721	0.269 ng	91
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	20.40	43	19991	0.359 ng	88
63) n-Octane	20.56	57	18352	0.838 ng # yes.	84
64) Tetrachloroethene	20.76	166	3076	0.126 ng	91
65) Chlorobenzene	0.00	112	0	N.D.	
66) Ethylbenzene	22.09	91	14678	0.138 ng	100
67) m- & p-Xylenes	22.31	91	33941	0.404 ng	98
68) Bromoform	22.42	173	881	N.D.	
69) Styrene	22.79	104	5496	0.088 ng	97
70) o-Xylene	22.92	91	13187	0.156 ng	86
71) n-Nonane	23.17	43	7029	0.138 ng	93
72) 1,1,2,2-Tetrachloroethane	22.93	83	1068	N.D.	
74) Cumene	23.66	105	1406	N.D.	
75) alpha-Pinene	24.15	93	20099	0.371 ng #	45
76) n-Propylbenzene	24.29	91	5710	N.D.	
77) 3-Ethyltoluene	24.41	105	12540	0.122 ng	94
78) 4-Ethyltoluene	24.46	105	6412	0.062 ng	95
79) 1,3,5-Trimethylbenzene	24.55	105	4423	0.052 ng	82

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 27 13:58:47 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

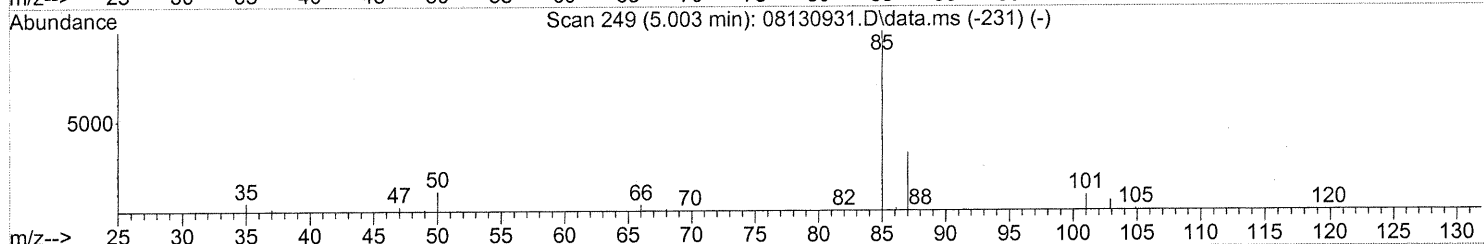
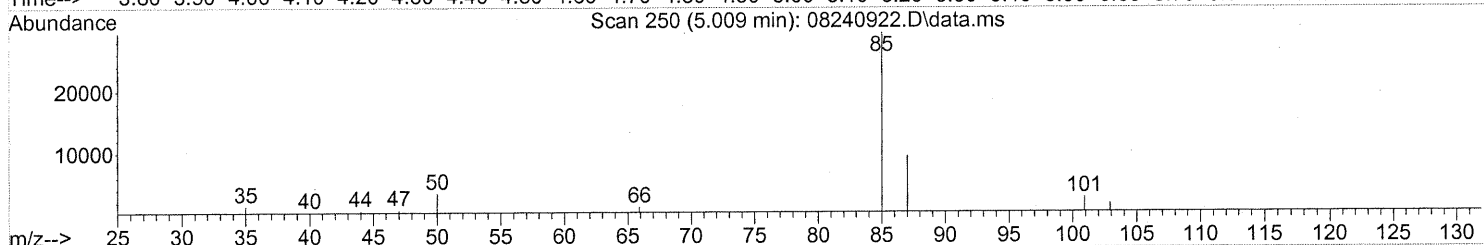
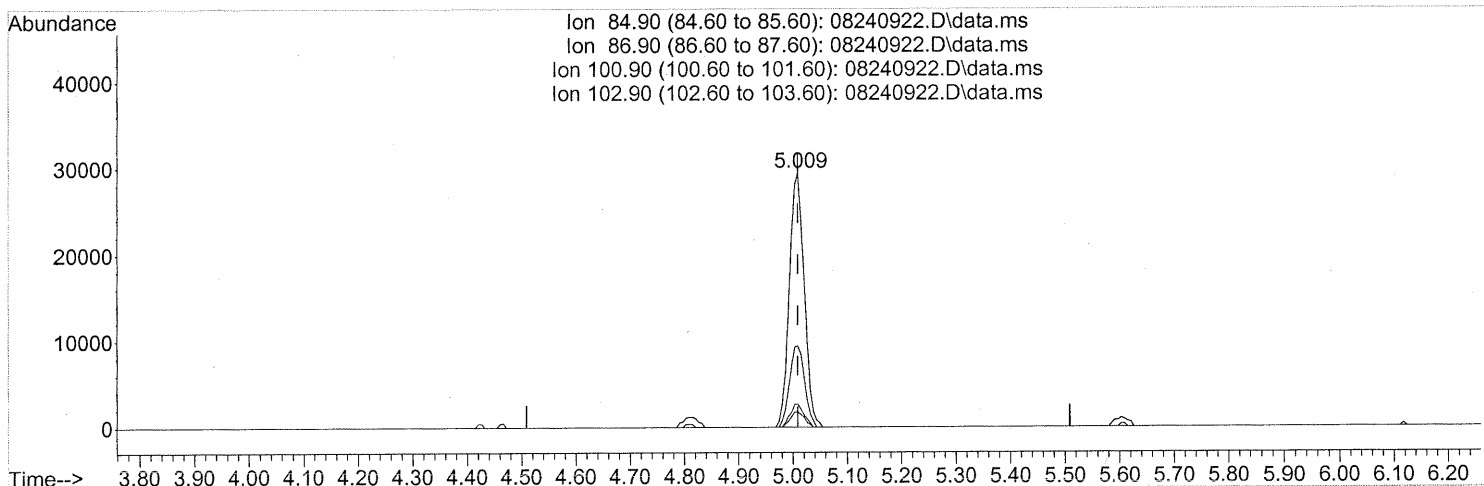
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.74	118	450		N.D.	
81) 2-Ethyltoluene	24.79	105	4983		N.D.	
82) 1,2,4-Trimethylbenzene	25.05	105	14317	0.158	ng	88
83) n-Decane	25.15	57	27877	0.528	ng	98
84) Benzyl Chloride	25.23	91	764		N.D.	
85) 1,3-Dichlorobenzene	25.32	146	1633		N.D.	
86) 1,4-Dichlorobenzene	25.32	146	1633		N.D.	
87) sec-Butylbenzene	25.39	105	2246		N.D.	
88) 4-Isopropyltoluene (p-...	25.57	119	4497		N.D.	
89) 1,2,3-Trimethylbenzene	25.57	105	4369		N.D.	
90) 1,2-Dichlorobenzene	25.32	146	1633		N.D.	
91) d-Limonene	25.74	68	4899	0.132	ng	99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.65	57	6546	0.120	ng	81
94) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
95) Naphthalene	27.94	128	8571	0.070	ng	91
96) n-Dodecane	27.89	57	15842	0.260	ng	93
97) Hexachlorobutadiene	0.00	225	0		N.D.	
98) Cyclohexanone	22.52	55	10091	0.326	ng	89
99) tert-Butylbenzene	25.05	119	2033		N.D.	
100) n-Butylbenzene	26.07	91	3371		N.D.	

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.009min (-0.000) 1.29ng

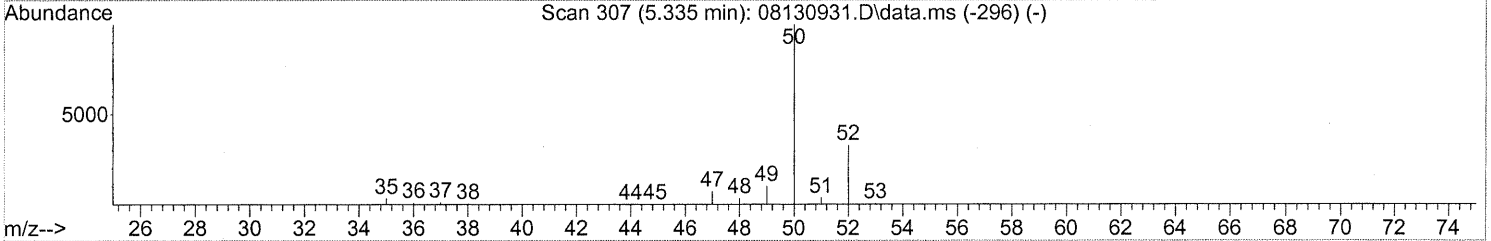
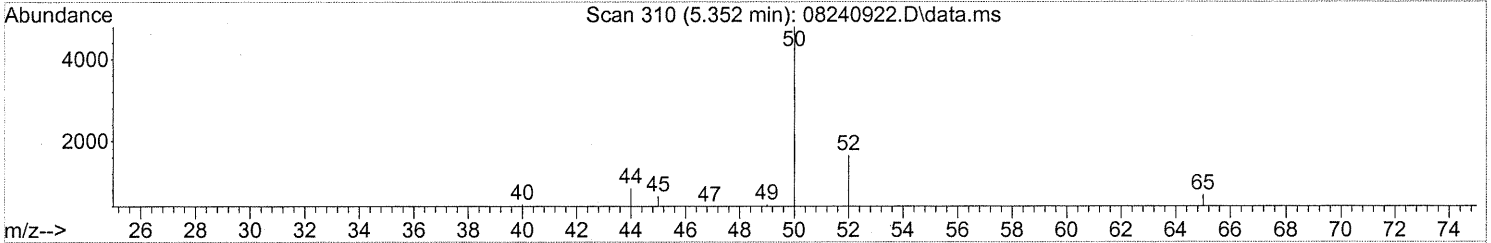
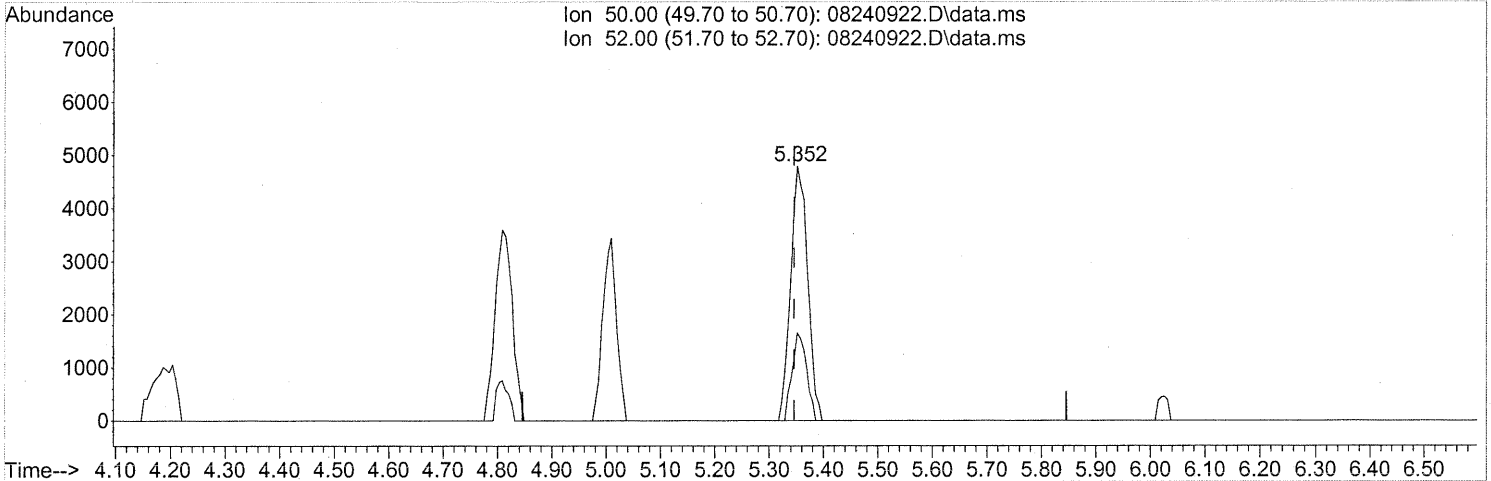
response 55382

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.41
100.90	9.10	8.38
102.90	5.50	5.56

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
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 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

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TIC: 08240922.D\data.ms

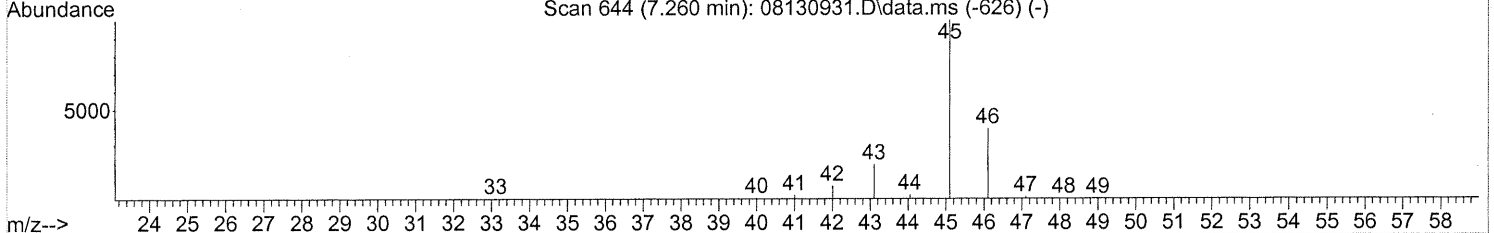
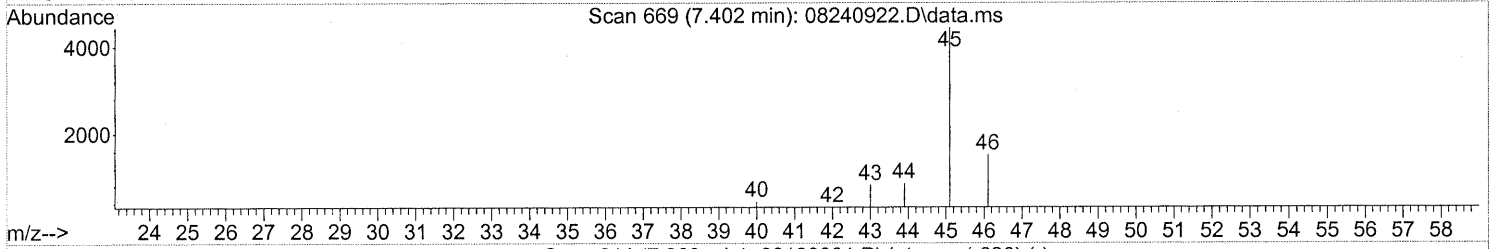
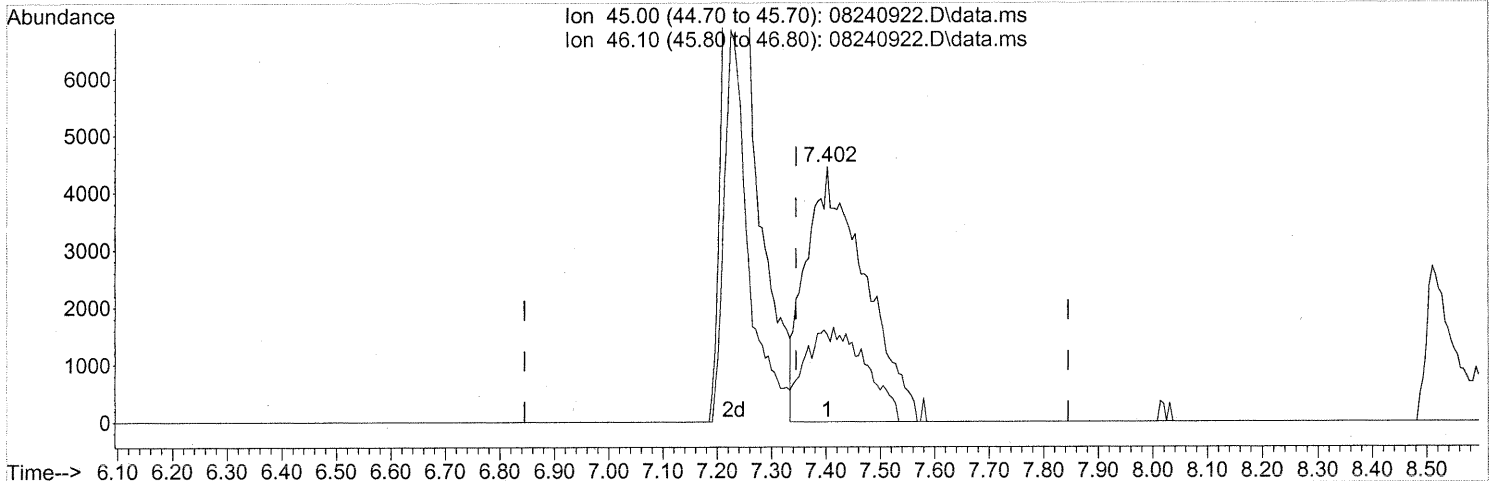
(4) Chloromethane (T)
 5.352min (+0.006) 0.26ng
 response 10390

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	29.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
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 Operator : EM
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 Misc : Eng. H&E 101658
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Quant Time: Aug 25 07:37:44 2009
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 Response via : Initial Calibration



TIC: 08240922.D\data.ms

(10) Ethanol (T)
 7.402min (+0.057) 1.76ng
 response 33331

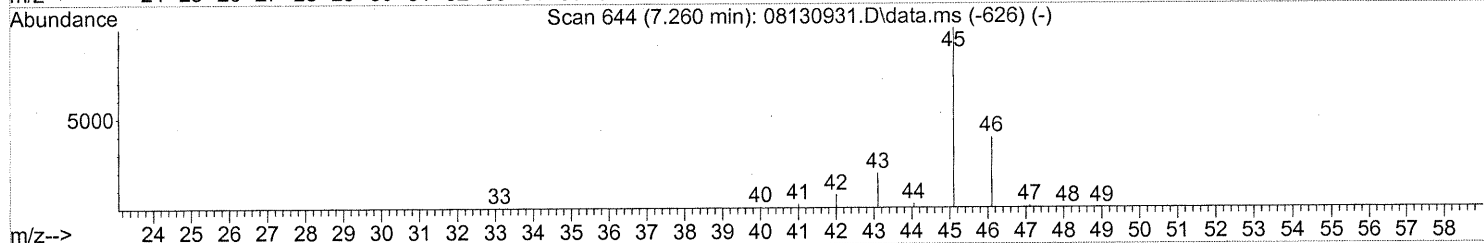
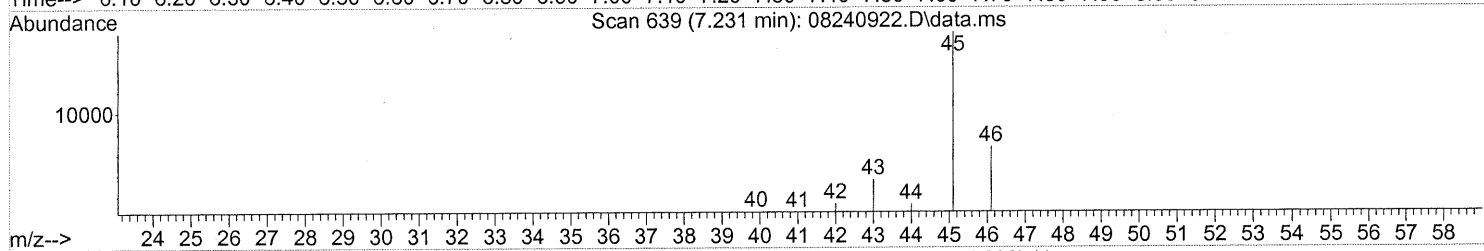
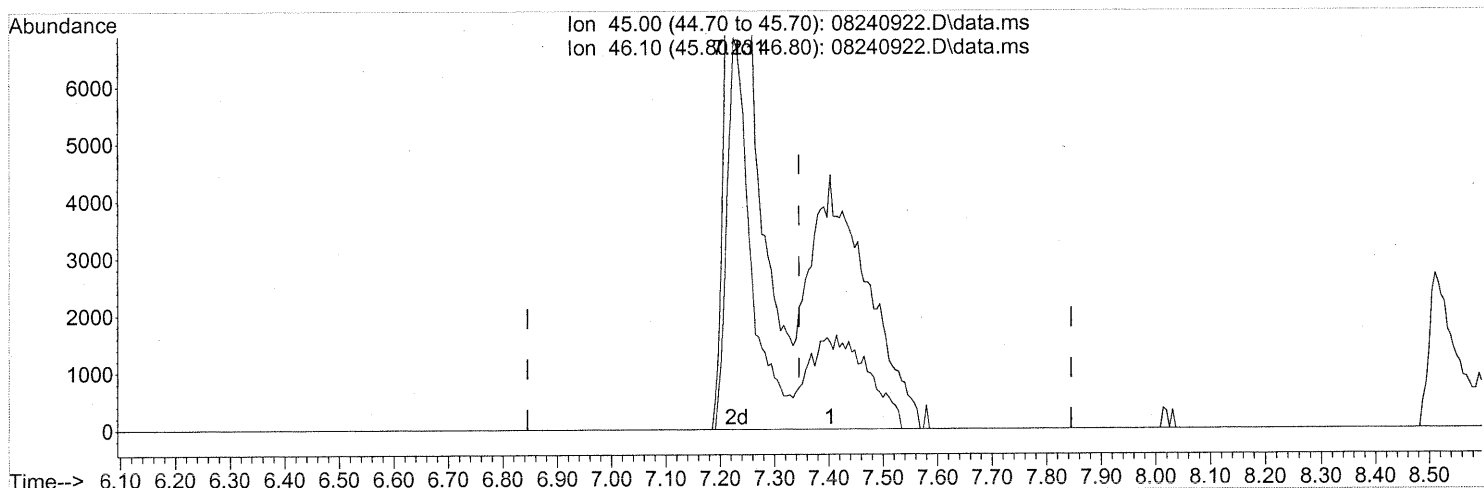
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.57
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

(10) Ethanol (T)
 7.231min (-0.114) 4.66ng m
 response 88303

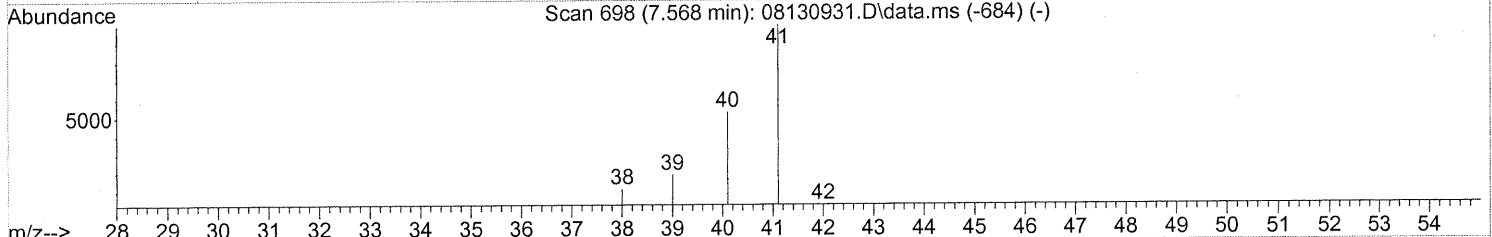
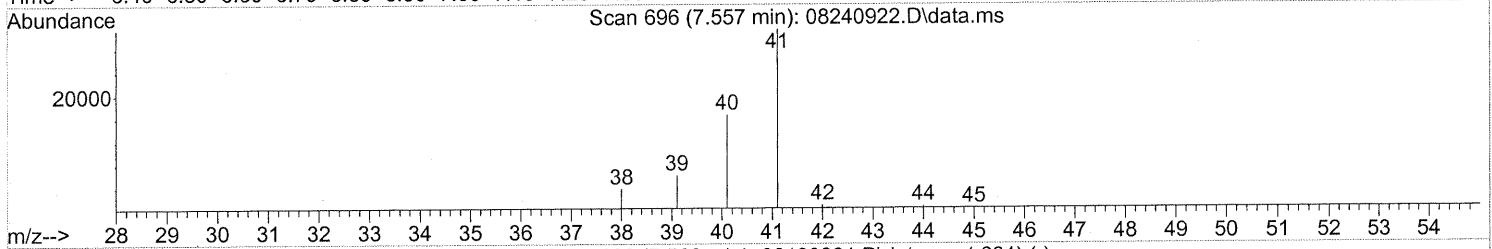
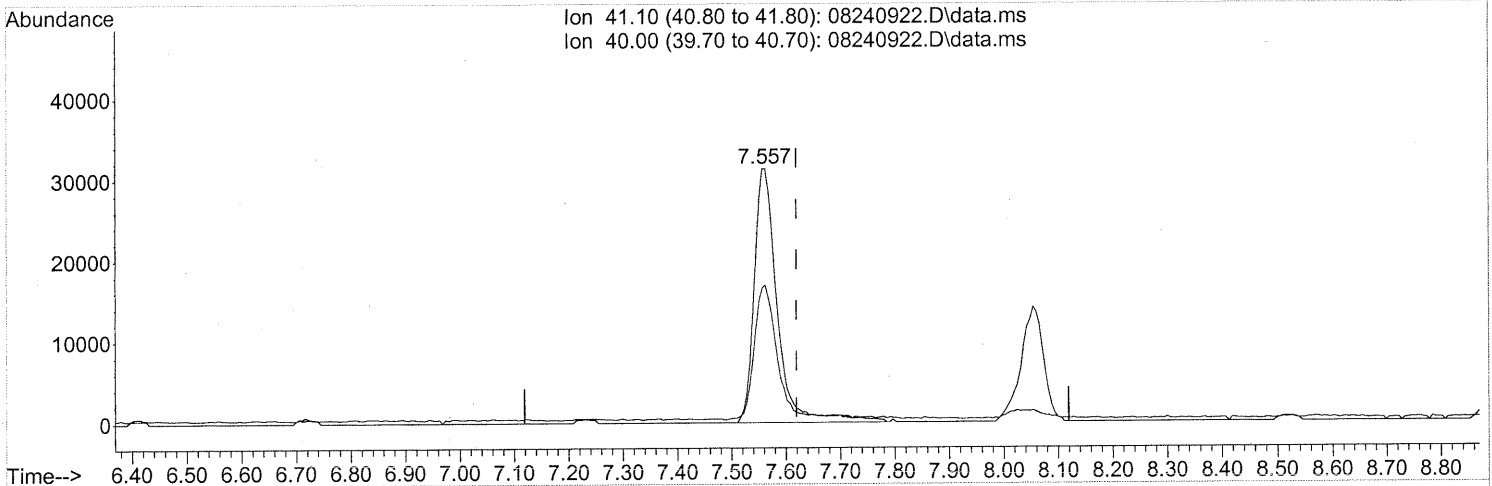
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	14.18#
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
 em 8/28/09
 @ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

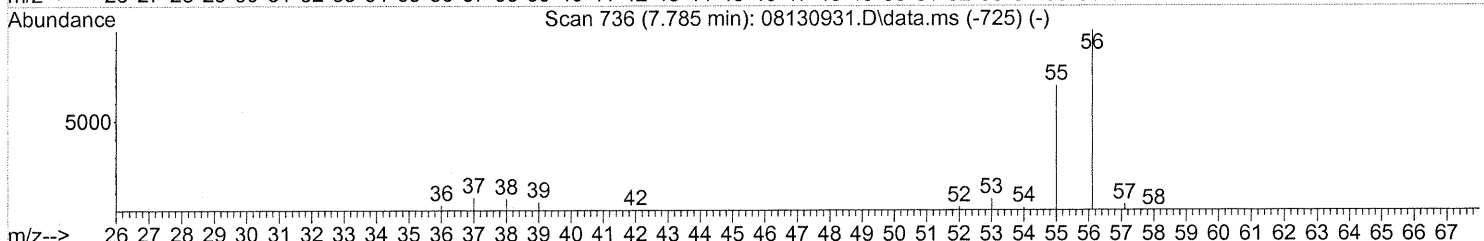
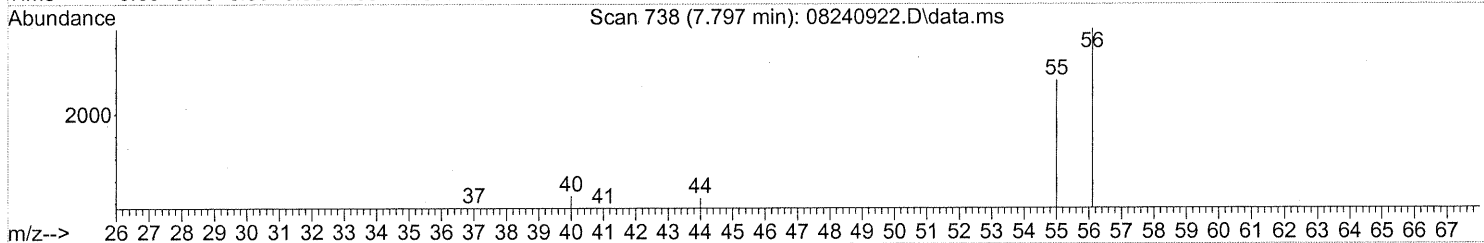
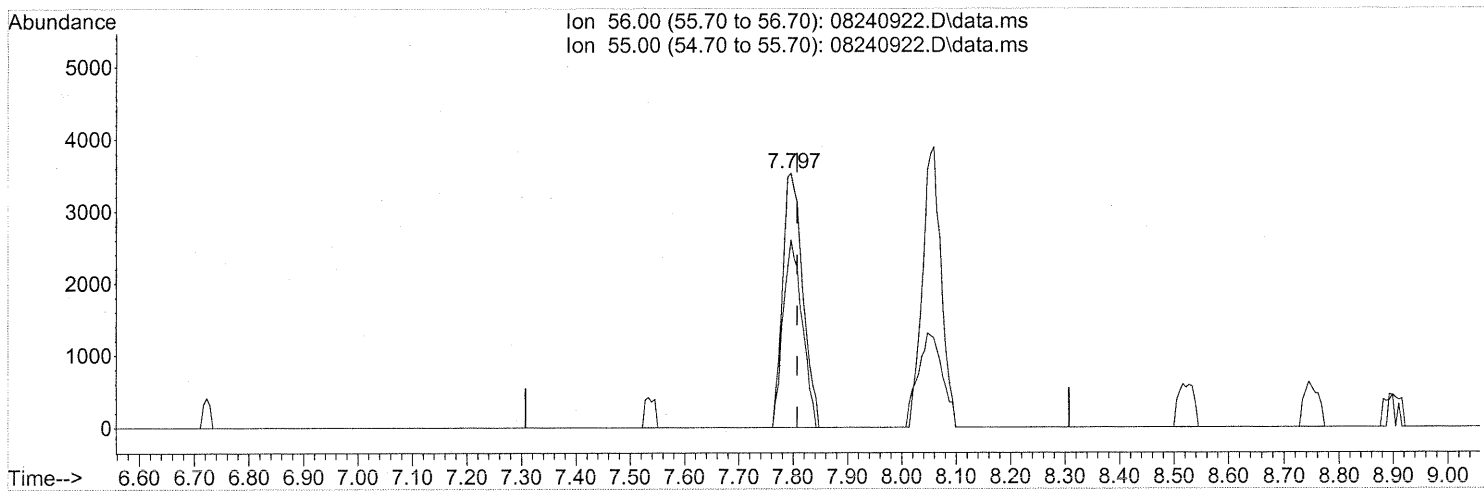
(11) Acetonitrile (T)
 7.557min (-0.063) 1.99ng
 response 92050

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	55.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

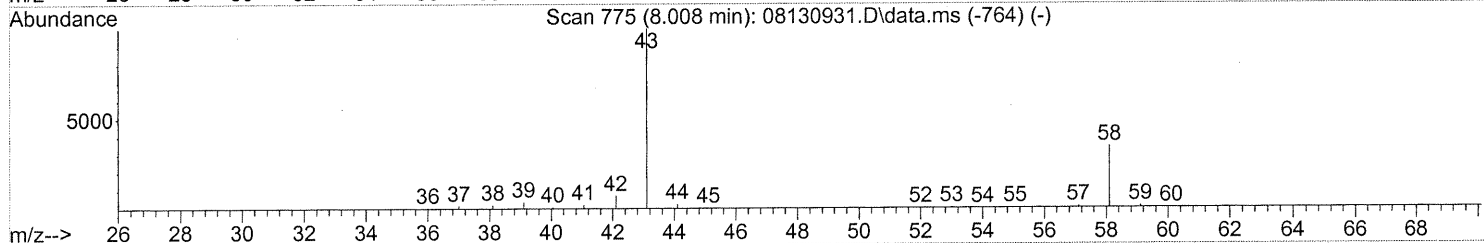
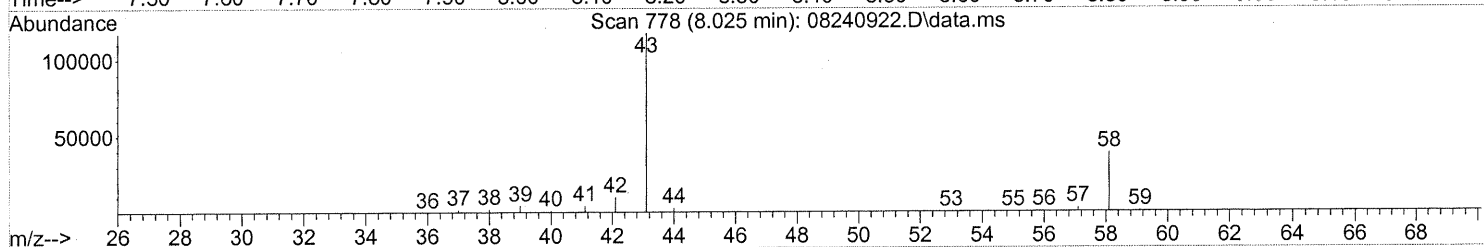
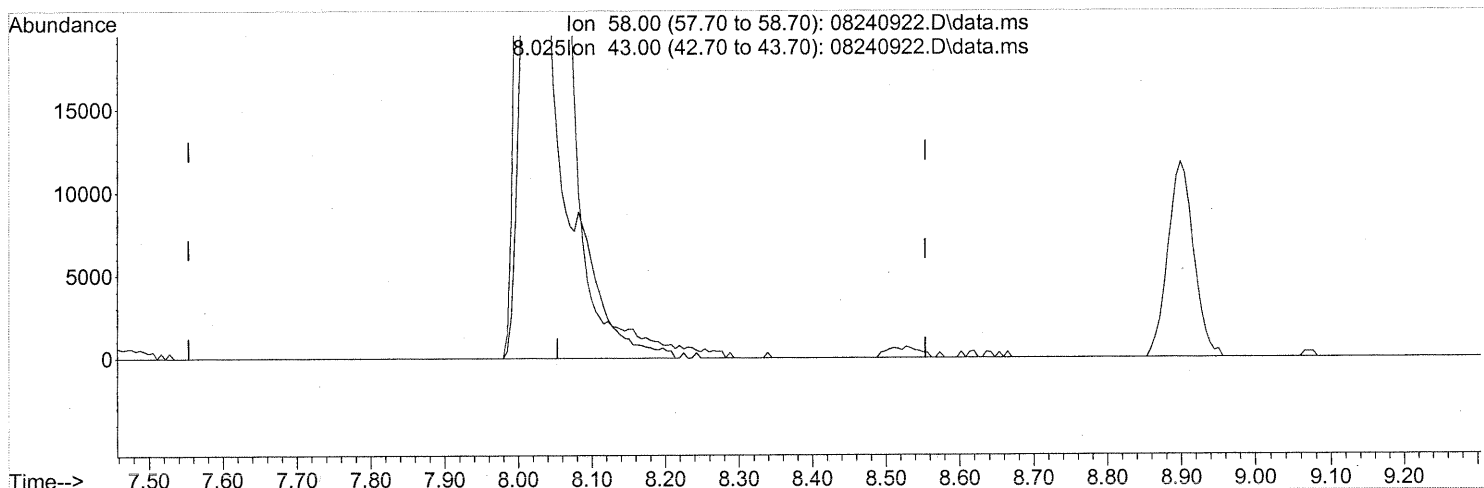
(12) Acrolein (T)
 7.797min (-0.011) 0.74ng
 response 9089

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	69.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

(13) Acetone (T)

8.025min (-0.029) 6.65ng

response 128181

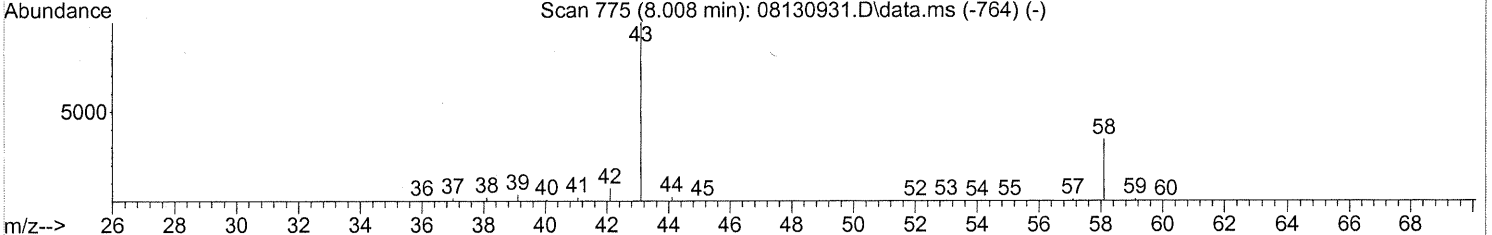
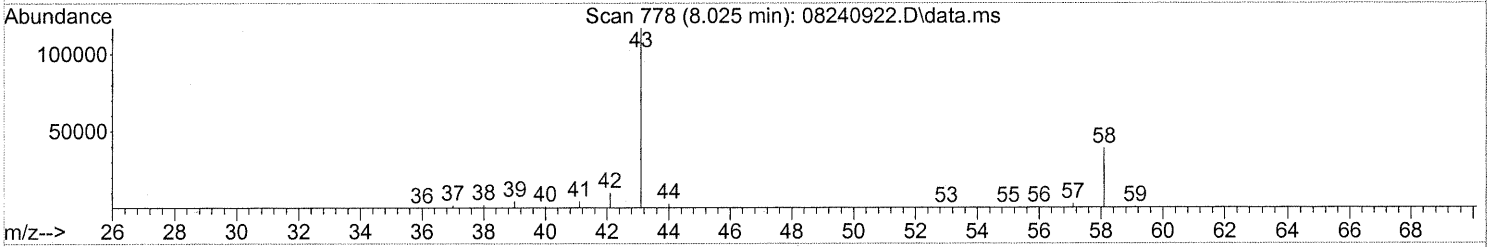
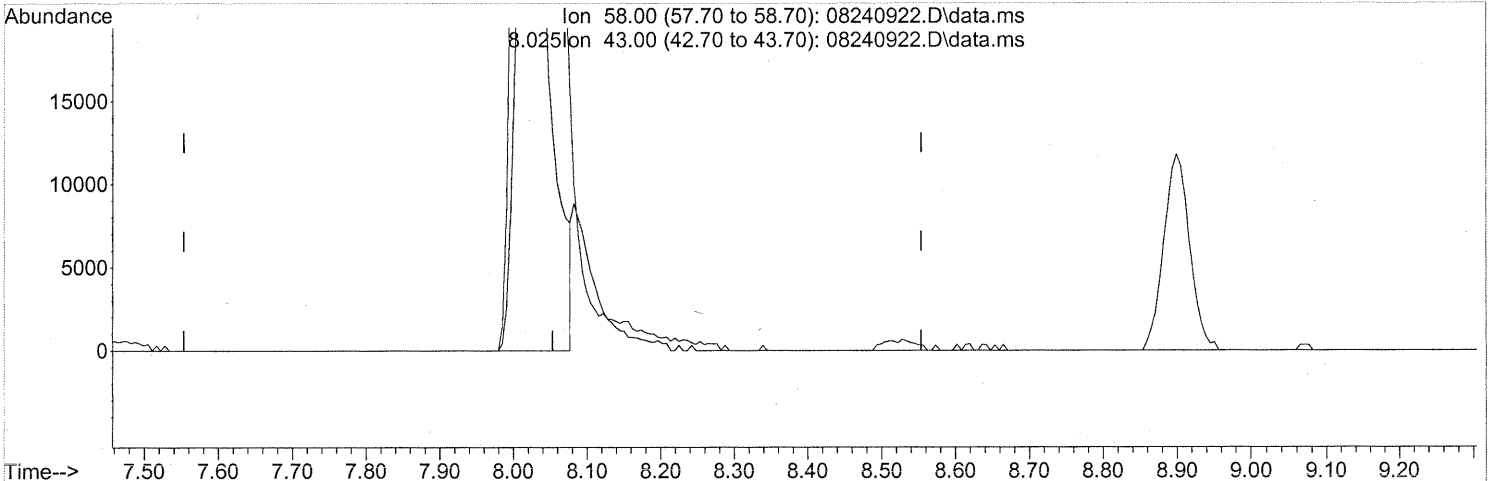
Ion	Exp%	Act%
58.00	100	100
43.00	317.70	287.94
0.00	0.00	0.00
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

(13) Acetone (T)
 8.025min (-0.029) 5.64ng m
 response 108573

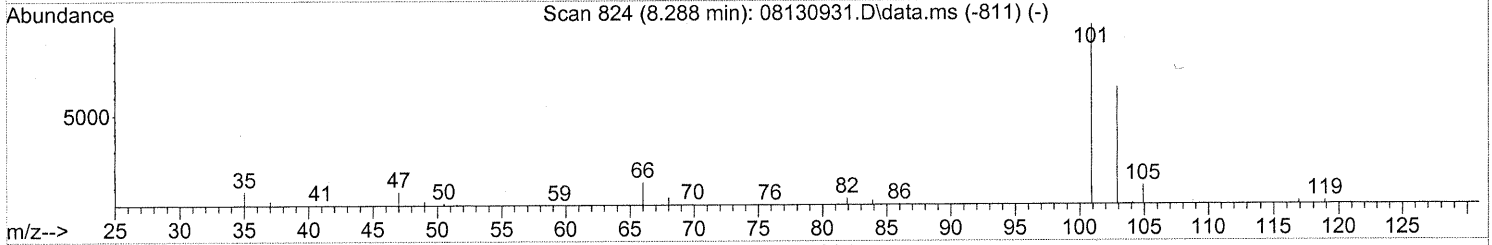
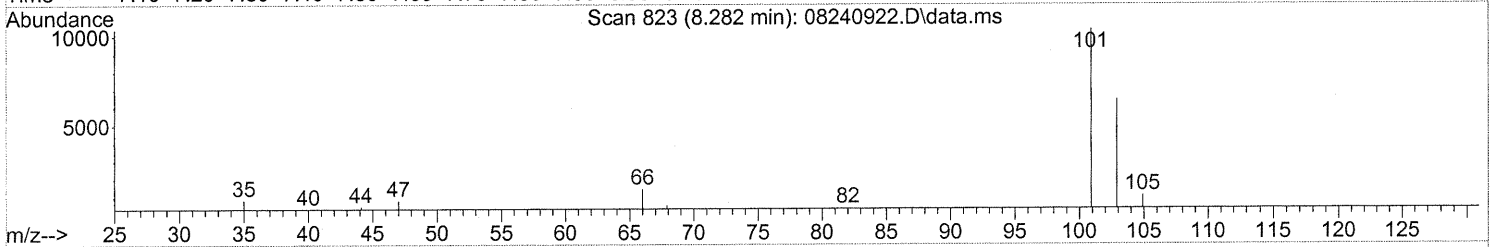
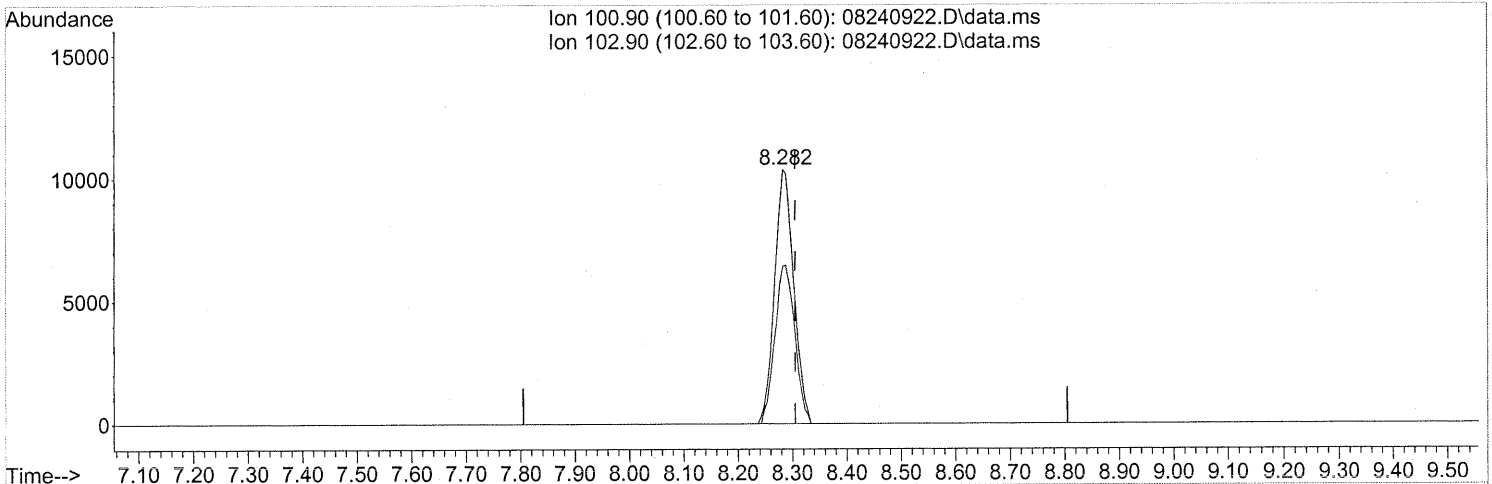
Ion	Exp%	Act%
58.00	100	100
43.00	317.70	339.94
0.00	0.00	0.00
0.00	0.00	0.00

SH → IC
 em 8/28/09
 ee 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 0.68ng

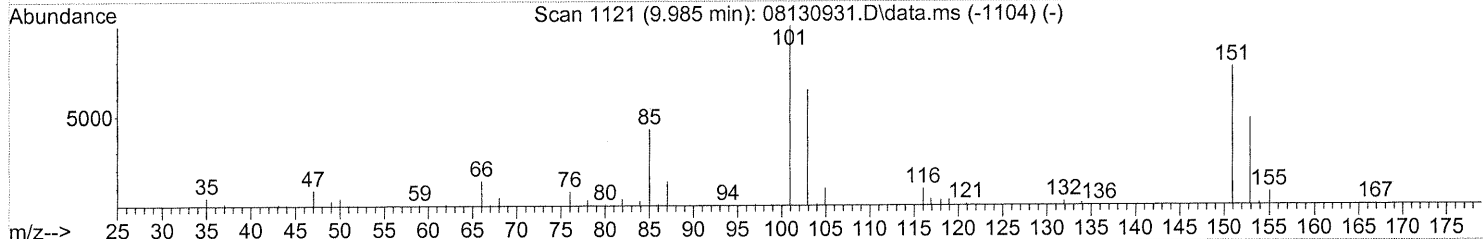
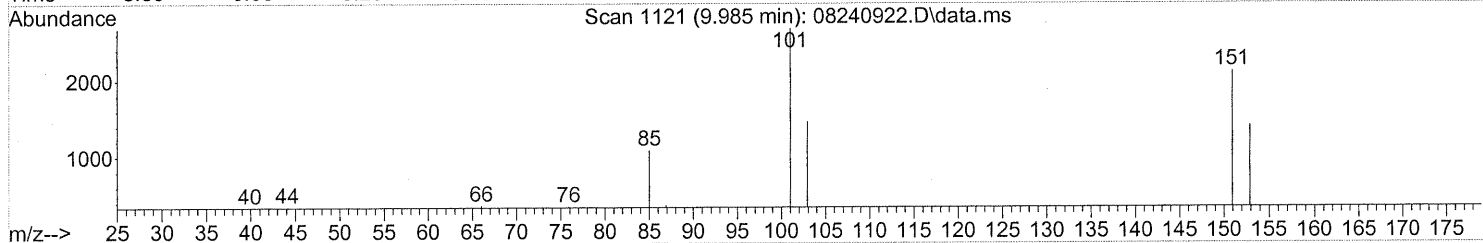
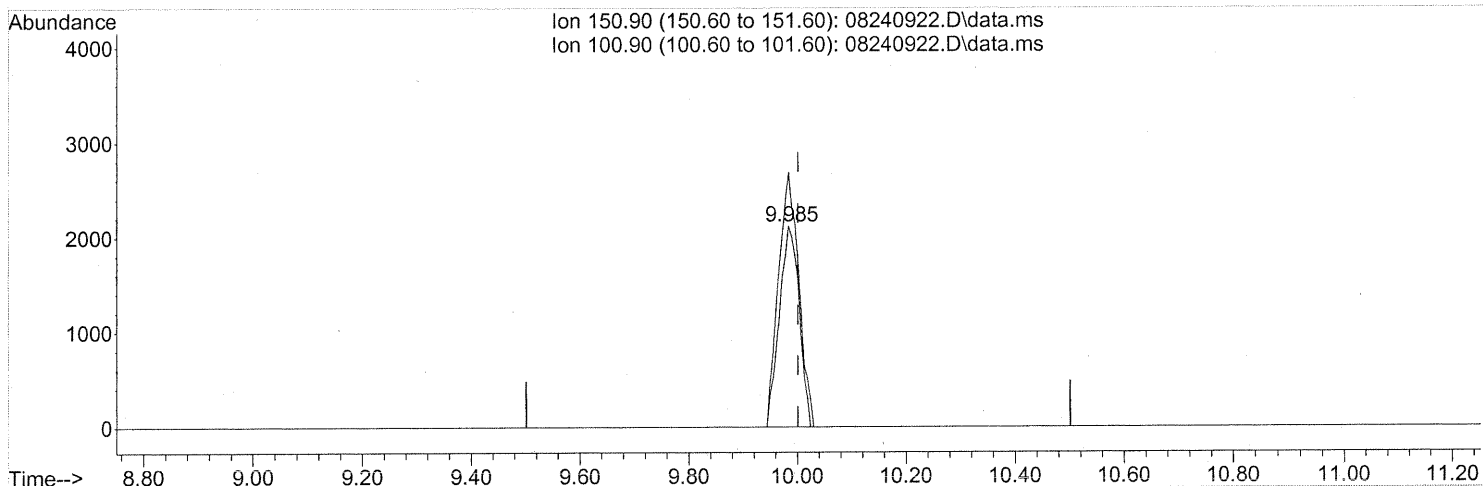
response 25198

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	64.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.32ng

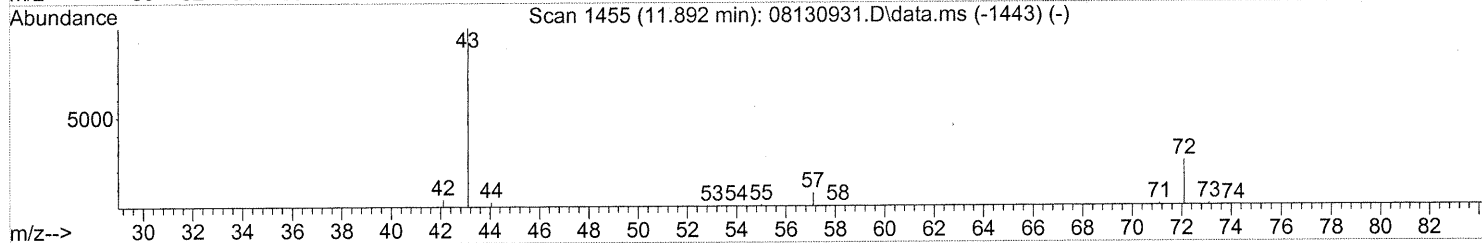
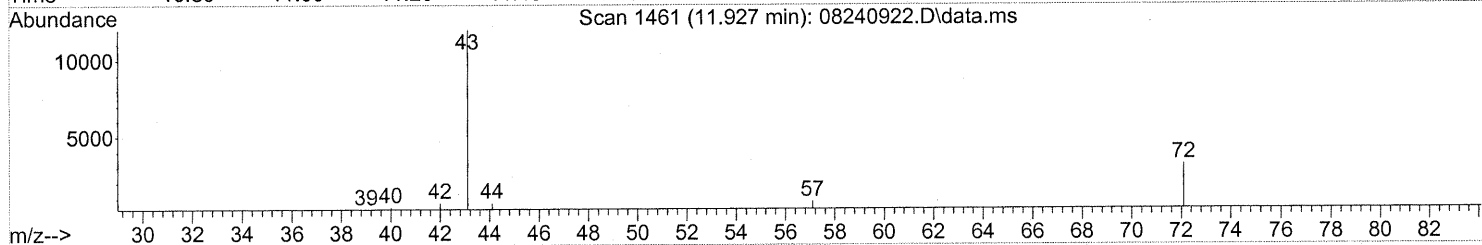
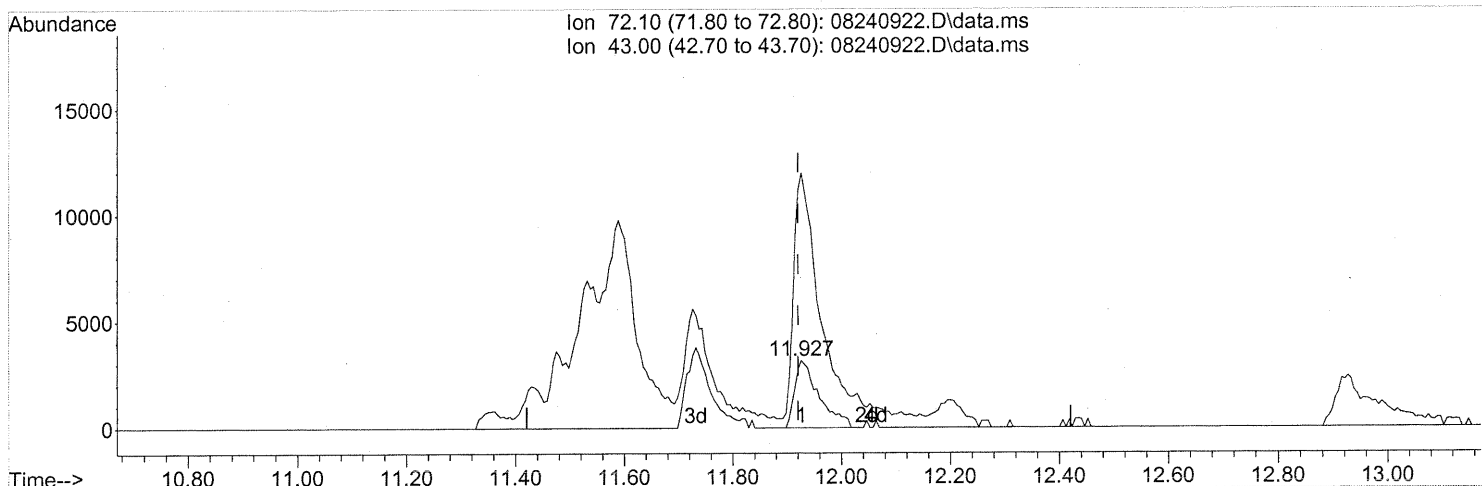
response 5301

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	130.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

11.927min (+0.006) 0.73ng

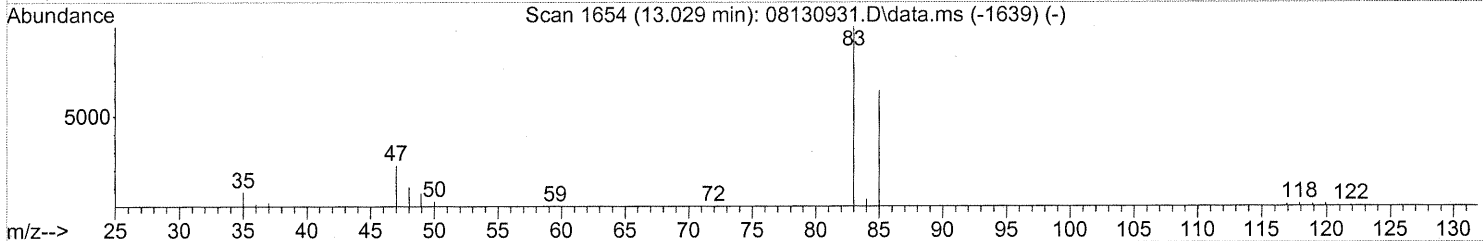
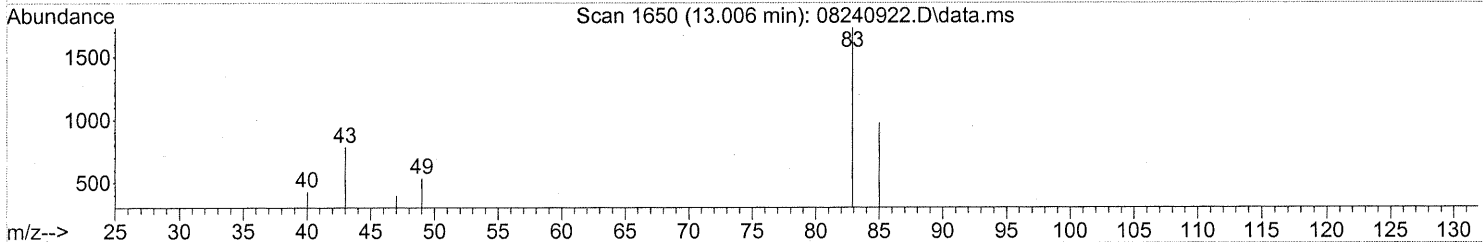
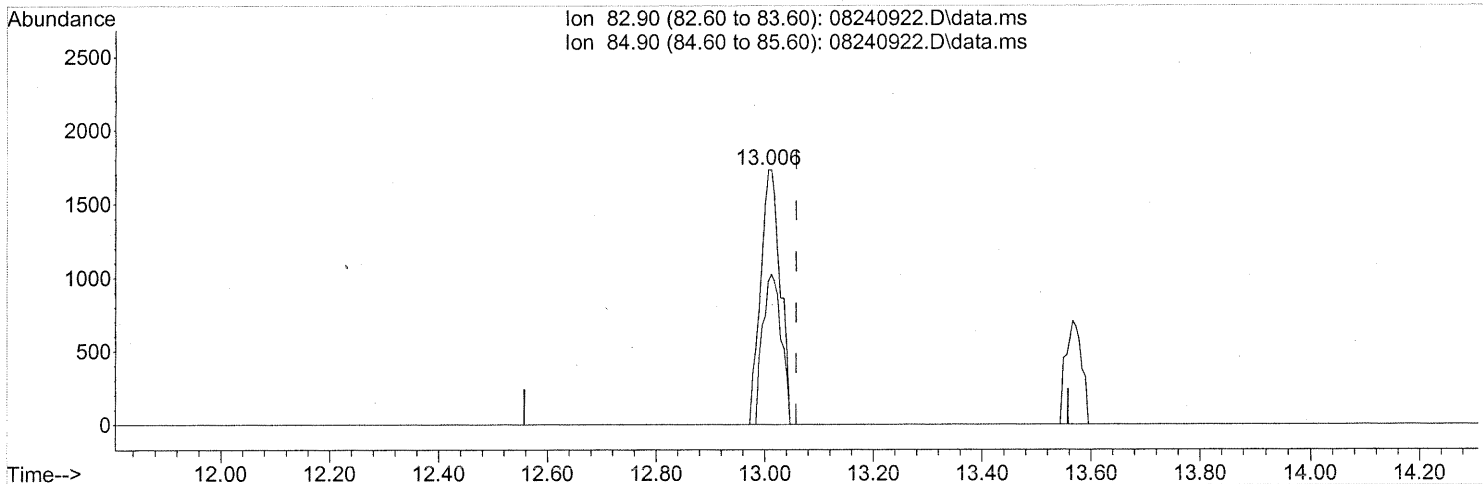
response 9763

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	446.88#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



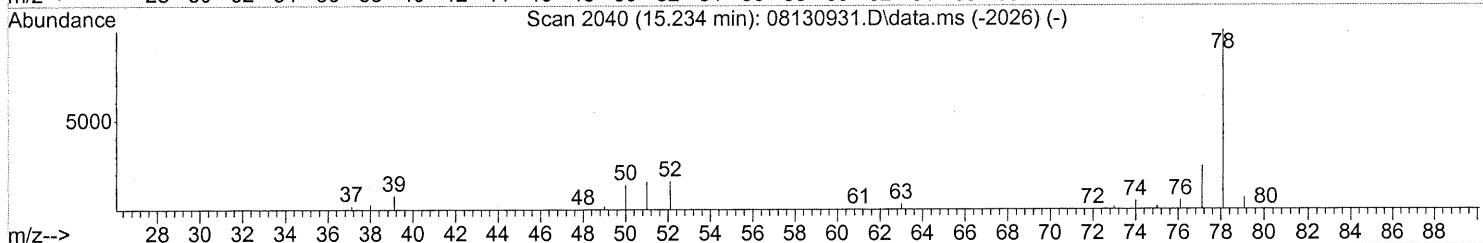
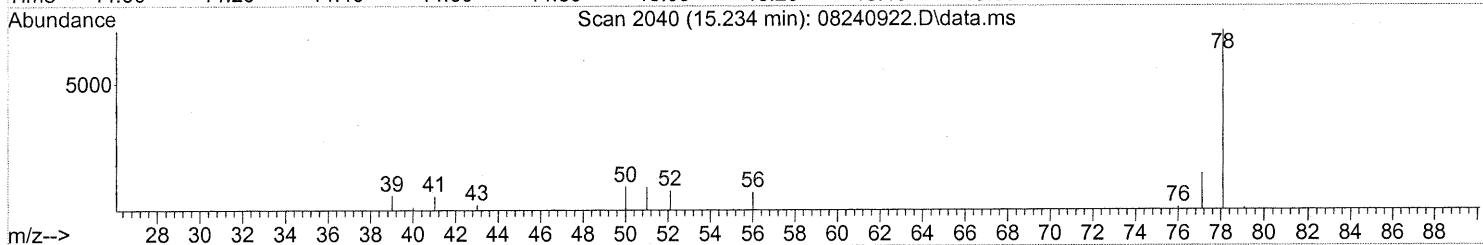
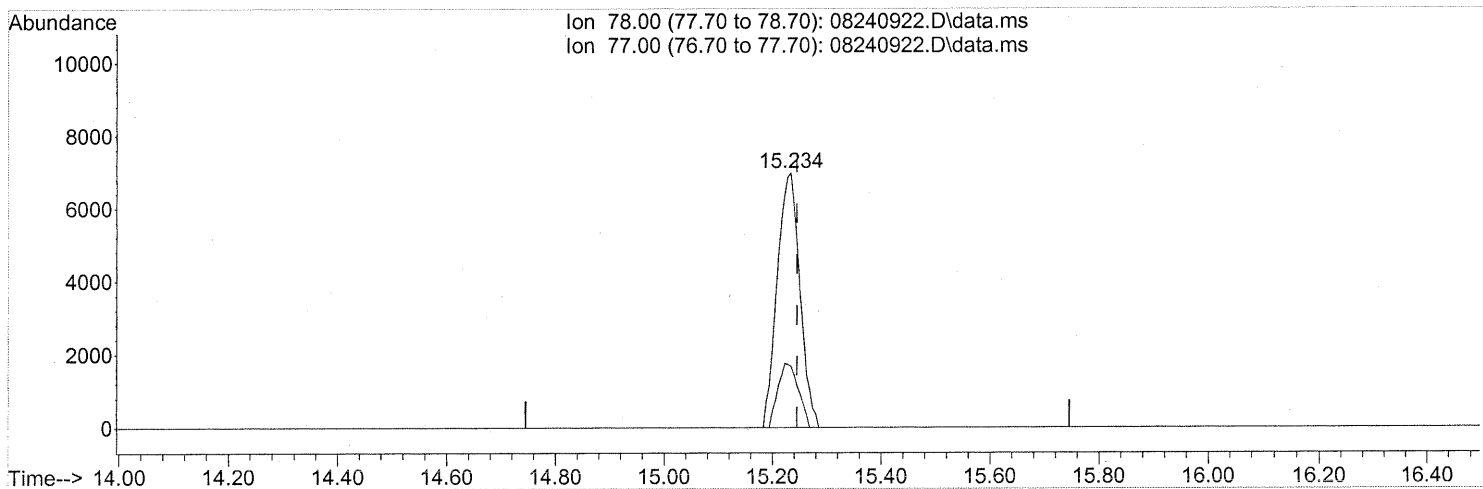
(32) Chloroform (T)
 13.006min (-0.051) 0.12ng
 response 4366

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	56.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

(41) Benzene (T)

15.234min (-0.011) 0.21ng

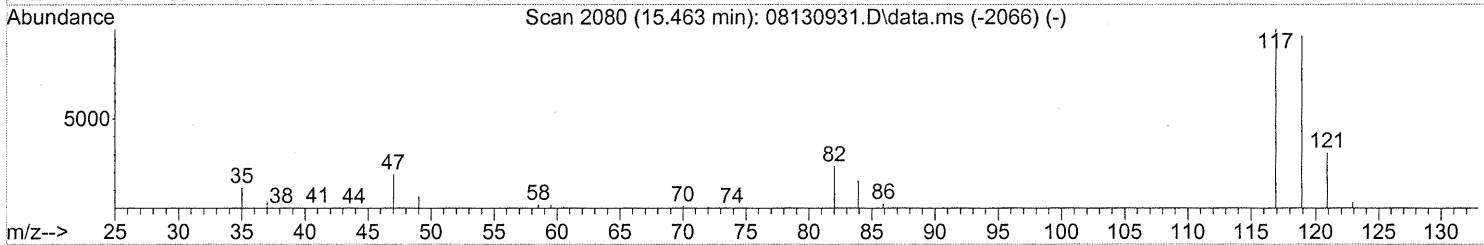
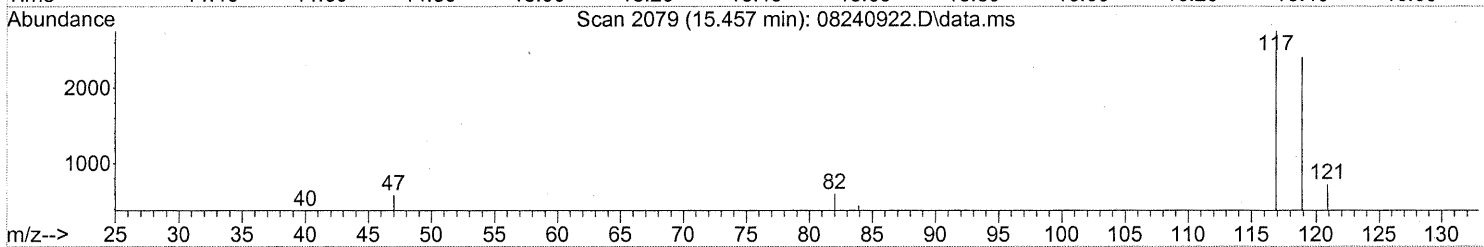
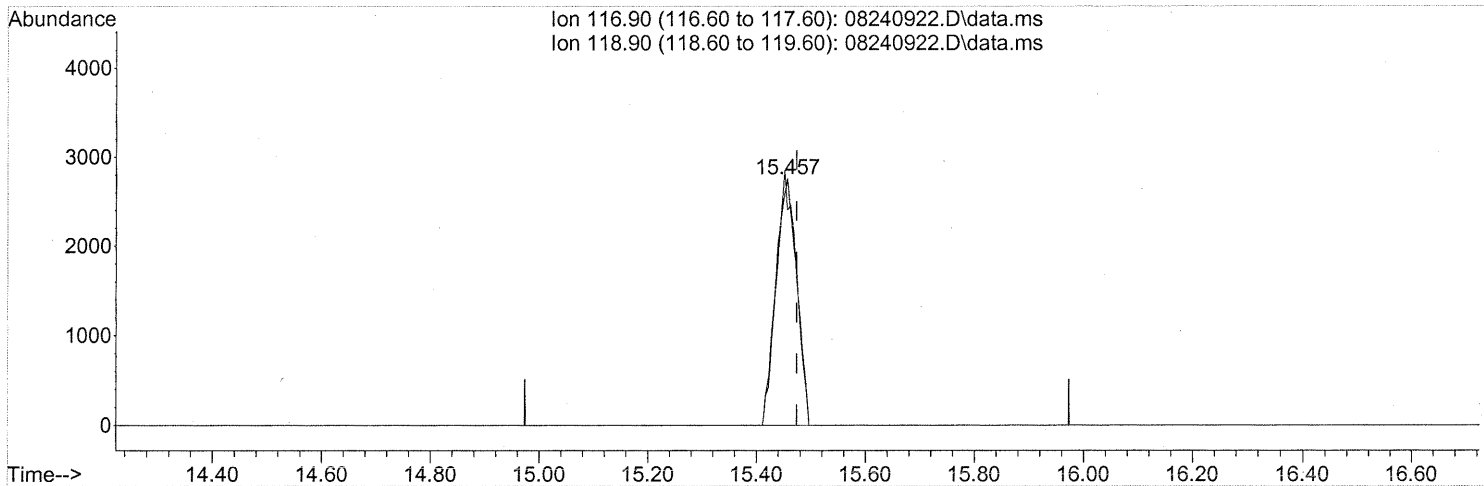
response 20095

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	22.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.28ng

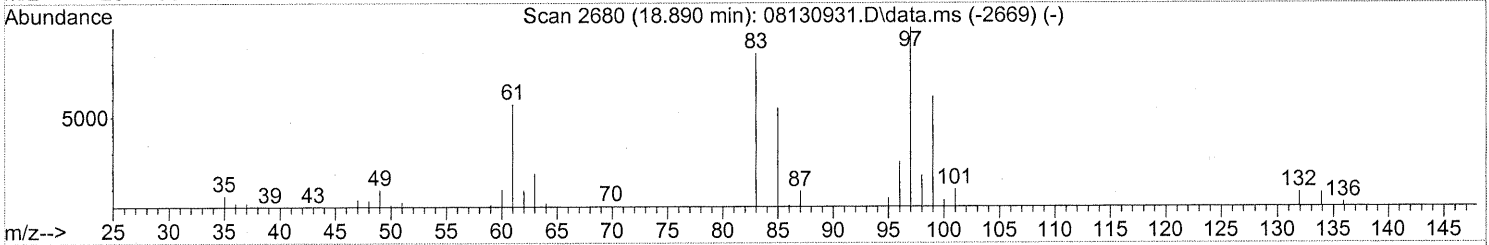
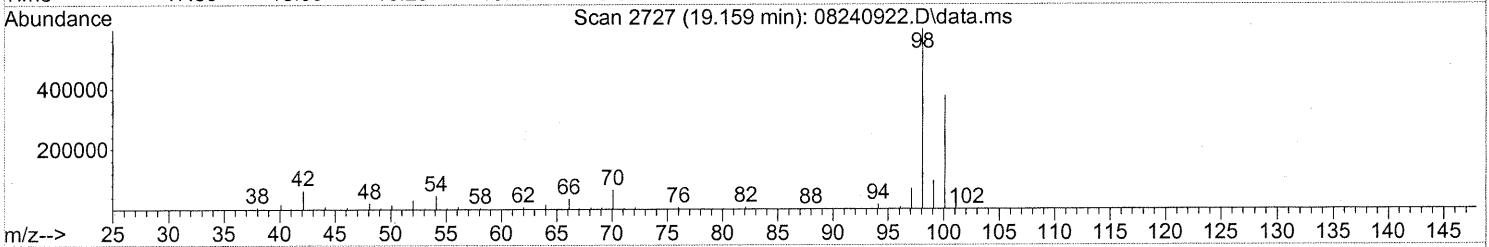
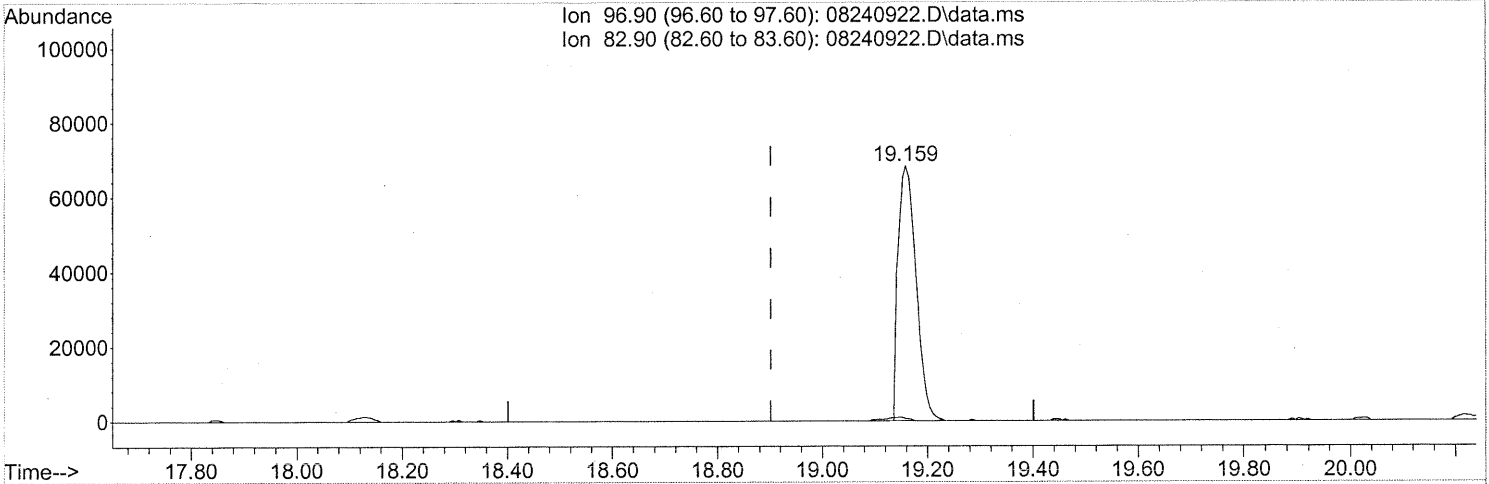
response 7340

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	99.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

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

19.159min (+0.257) 7.90ng

response 160918

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.64#
0.00	0.00	0.00
0.00	0.00	0.00

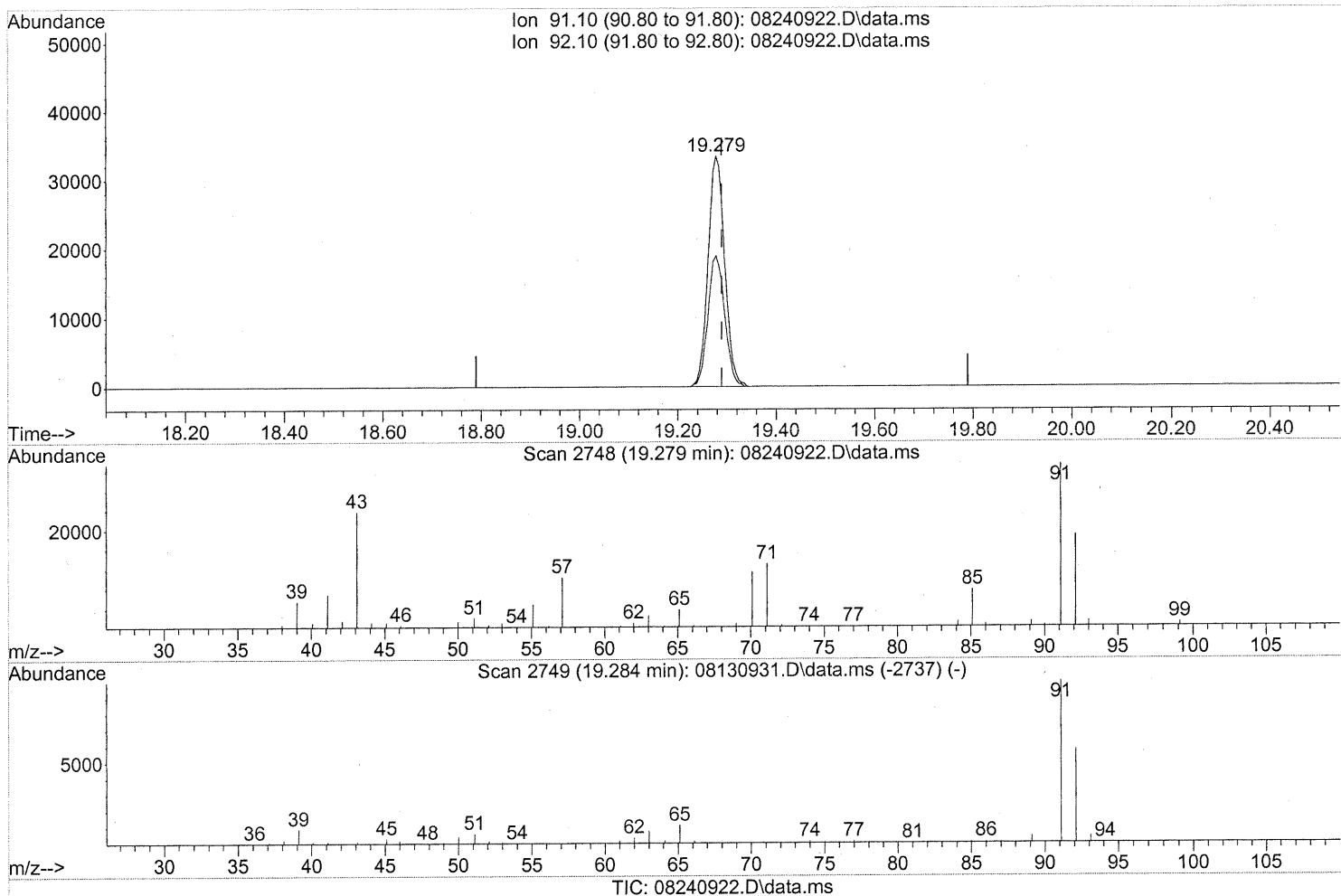
FP em 8/28/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



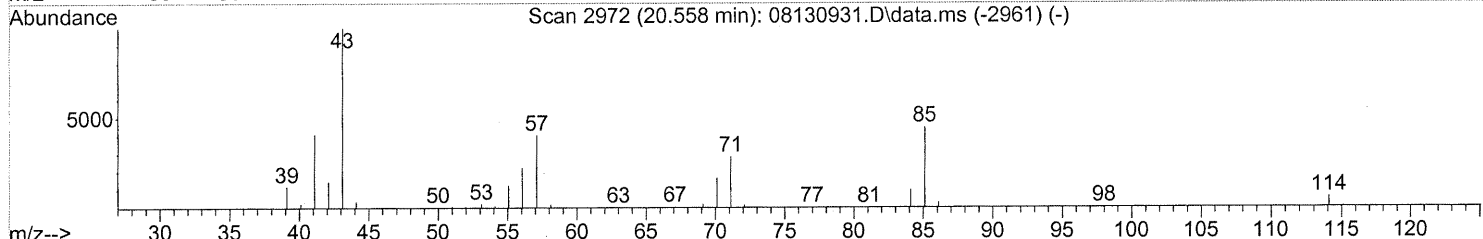
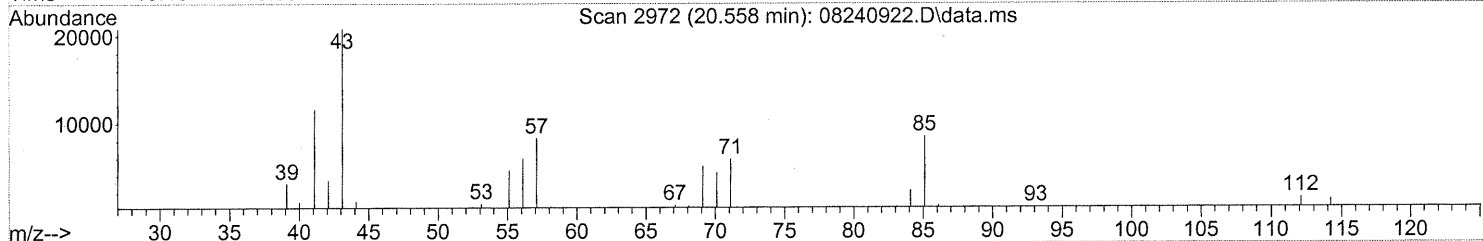
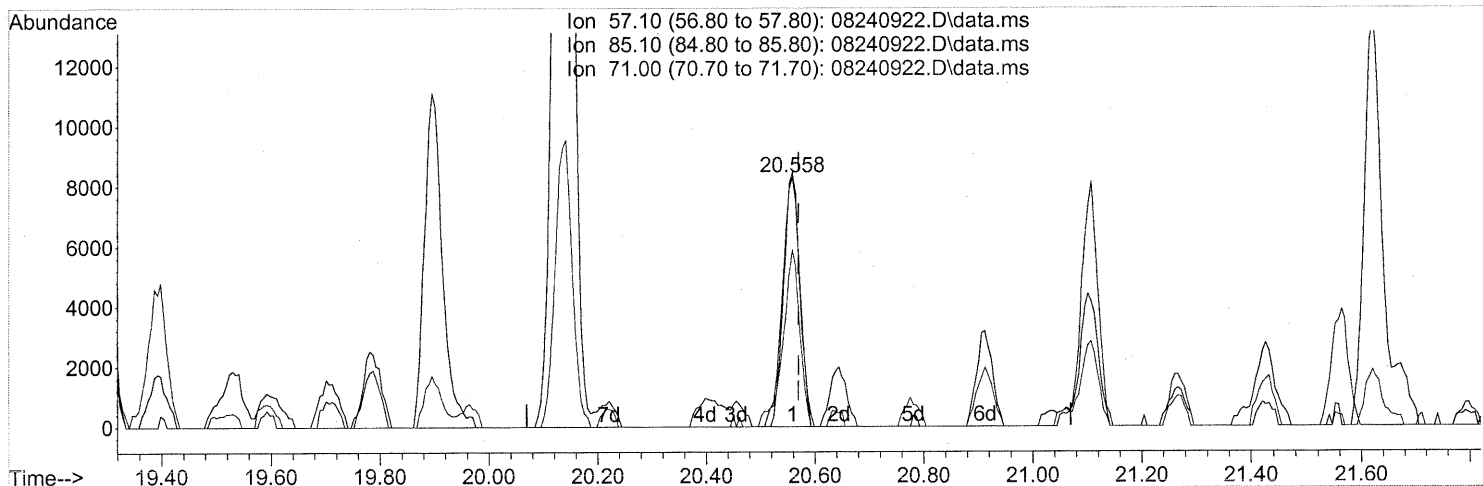
(58) Toluene (T)
 19.279min (-0.011) 0.80ng
 response 78163

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

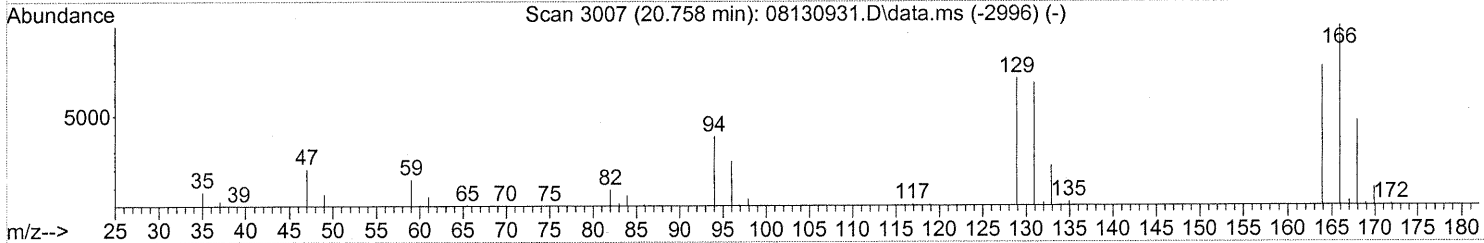
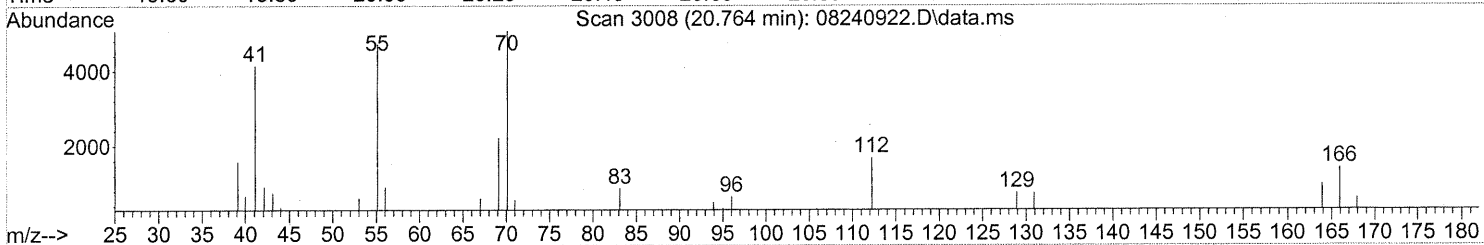
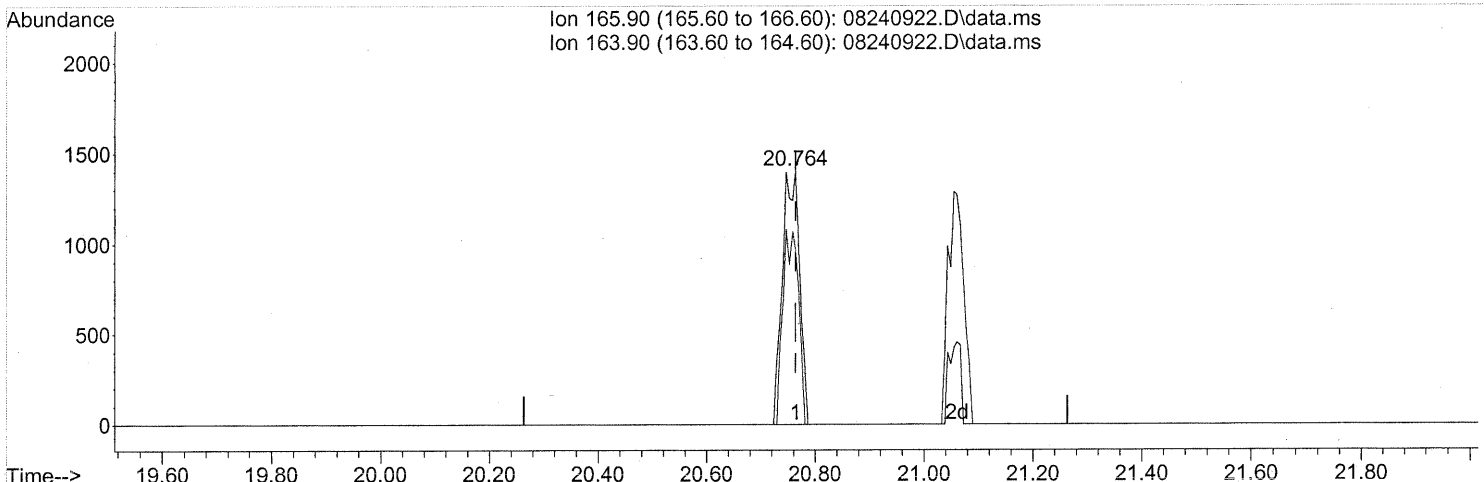
(63) n-Octane (T)
 20.558min (-0.011) 0.84ng
 response 18352

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	96.15#
71.00	75.10	68.50
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

(64) Tetrachloroethene (T)

20.764min (-0.000) 0.13ng

response 3076

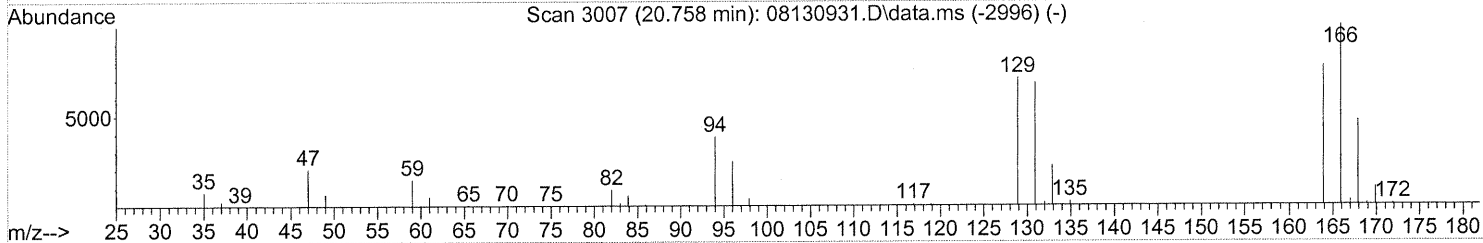
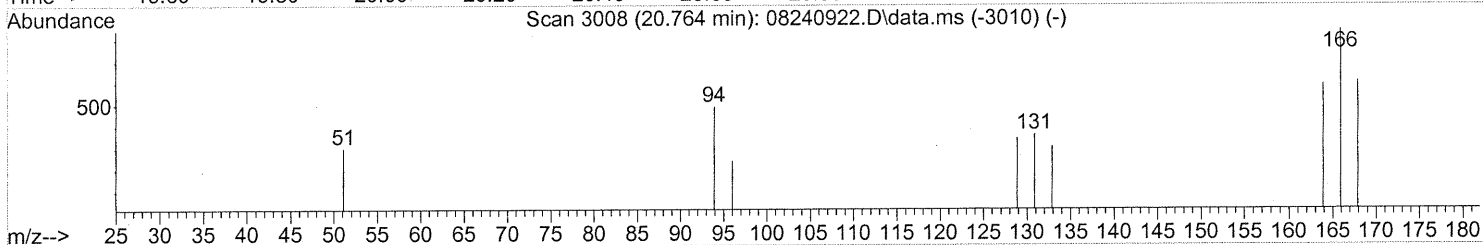
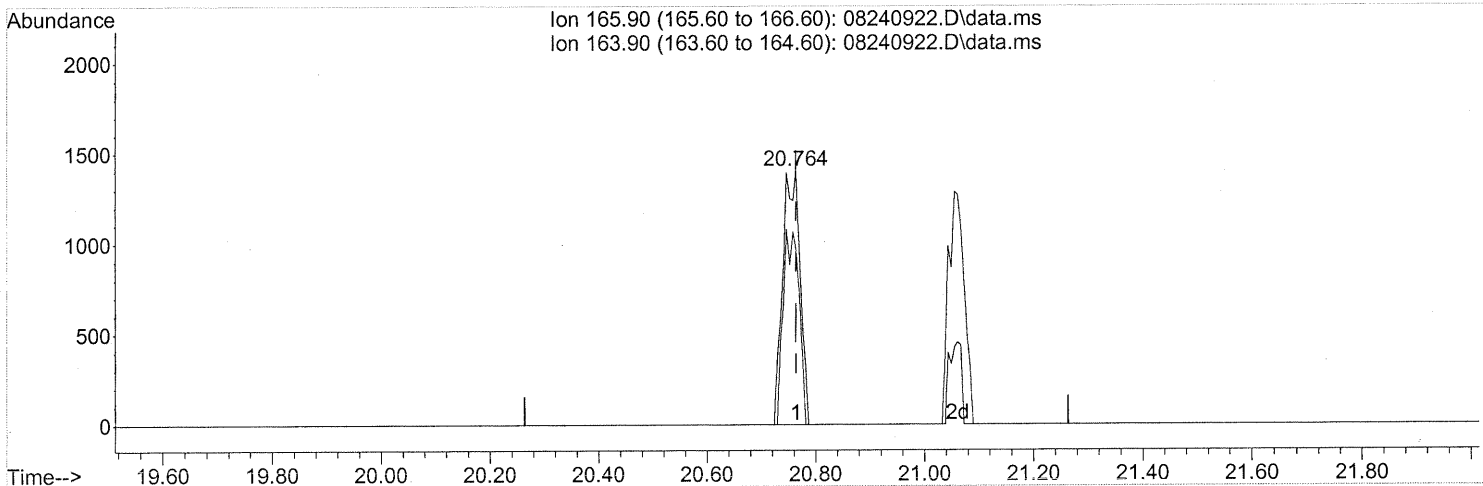
Ion	Exp%	Act%
165.90	100	100
163.90	77.80	69.64
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240922.D
 Acq On : 24 Aug 2009 23:16
 Operator : EM
 Sample : P0902832-005 (1000ml)
 Misc : Eng. H&E 101658
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 25 07:37:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240922.D\data.ms

(64) Tetrachloroethene (T)

20.764min (-0.000) 0.13ng

response 3076

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	69.64
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
Com 8/28/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101656
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01666

CAS Project ID: P0902832
CAS Sample ID: P0902832-006

Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/25/09
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: _____

8/25/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101656
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01666

CAS Project ID: P0902832
CAS Sample ID: P0902832-006

Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/25/09
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
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
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	1.0	ND	0.24	
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: _____

9/10/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101656
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P0902832-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01666

Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/25/09
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.

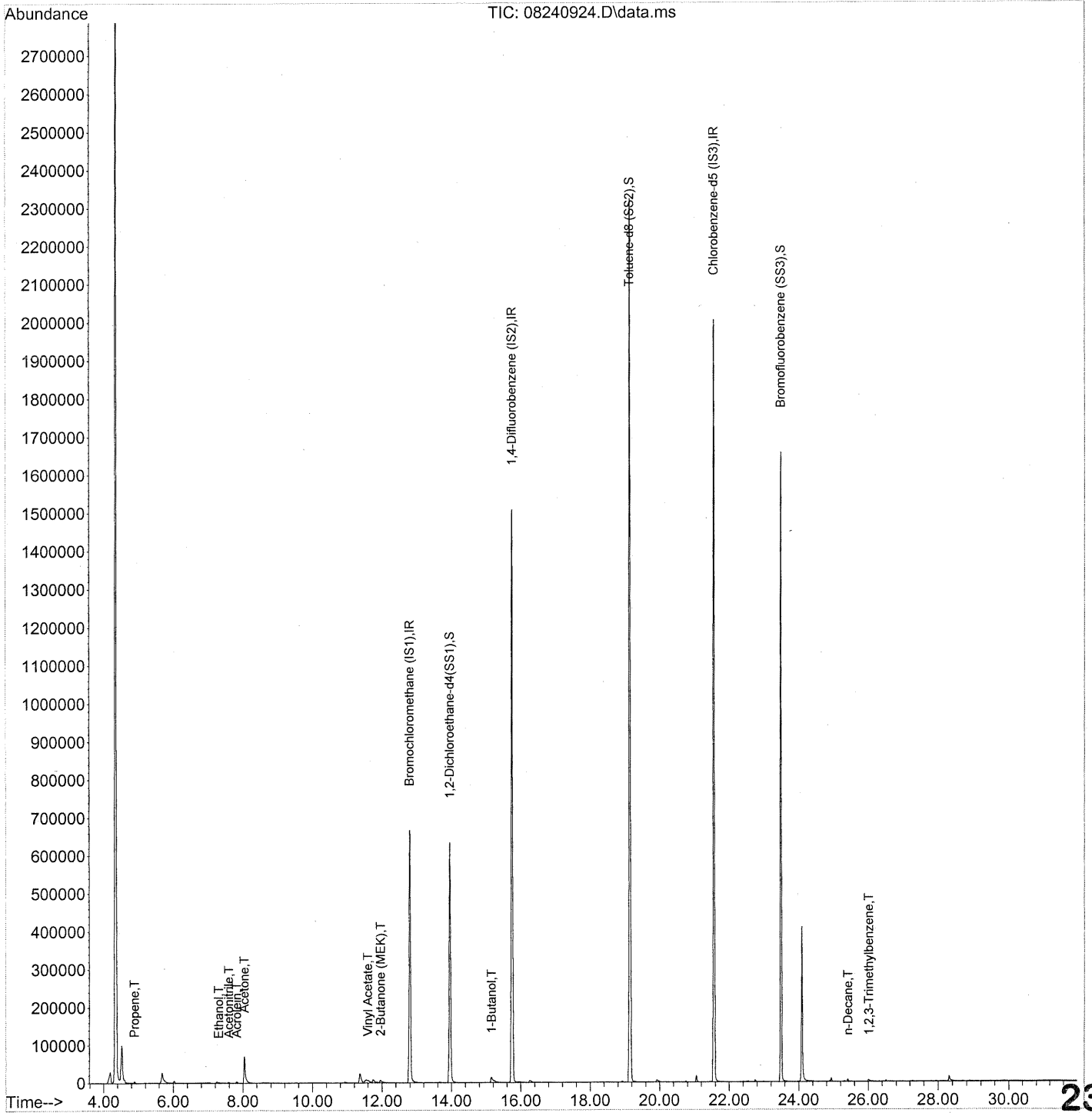
Verified By: _____

Date: 8/31/09

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Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240924.D
Acq On : 25 Aug 2009 00:39
Operator : EM
Sample : P0902832-006 (1000ml)
Misc : Eng. H&E 101656
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 27 14:02:57 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240924.D
 Acq On : 25 Aug 2009 00:39
 Operator : EM
 Sample : P0902832-006 (1000ml) ✓
 Misc : Eng. H&E 101656
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 27 14:02:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	353357	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.75	114	1797708	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	875243	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	623417	24.951	ng	-0.03 ✓
Spiked Amount	25.000		Recovery	=	99.80%	
57) Toluene-d8 (SS2)	19.14	98	2075769	24.947	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	99.80%	
73) Bromofluorobenzene (SS3)	23.49	174	591102	25.085	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	100.32%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.89	42	1599	0.052	ng	95
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	7.31	45	2185	0.112	ng	# 60
11) Acetonitrile	7.59	41	3326	0.070	ng	# 1
12) Acrolein	7.82	56	5401	0.426	ng	94
13) Acetone	8.04	58	52245	2.641	ng	# 65
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.60	45	908	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...	9.57	59	104	N.D.		
19) Methylene Chloride	9.53	84	390	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	9.95	76	2333	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	11.60	86	4021	0.938	ng	# 75
27) 2-Butanone (MEK)	11.96	72	3697	0.268	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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em 8/28/09

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240924.D
 Acq On : 25 Aug 2009 00:39
 Operator : EM
 Sample : P0902832-006 (1000ml)
 Misc : Eng. H&E 101656
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 27 14:02:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 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)	0.00	72	0	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	15.15	56	23023	0.988	ng #	74
41) Benzene	15.23	78	1512	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.74	84	798	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	19.30	91	586	N.D.		
59) 2-Hexanone	19.66	43	366	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	20.76	166	946	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	0.00	91	0	N.D.		
71) n-Nonane	22.74	43	1599	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.49	105	624	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.41	105	1194	N.D.		
78) 4-Ethyltoluene	24.41	105	1194	N.D.		
79) 1,3,5-Trimethylbenzene	24.41	105	1194	N.D.		

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240924.D
 Acq On : 25 Aug 2009 00:39
 Operator : EM
 Sample : P0902832-006 (1000ml)
 Misc : Eng. H&E 101656
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 27 14:02:57 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

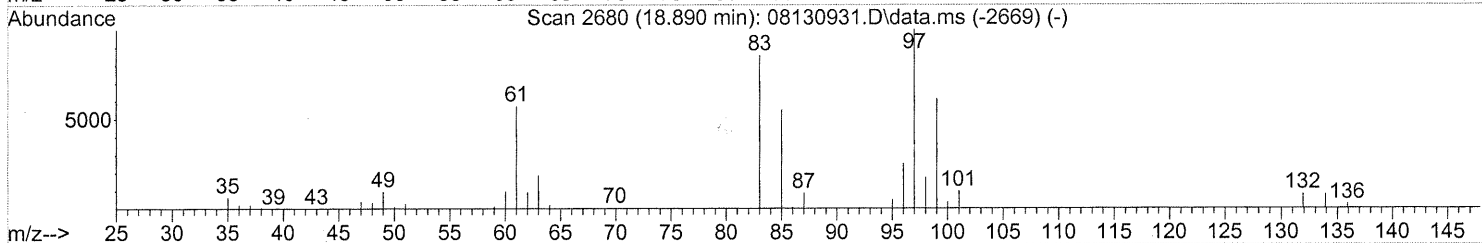
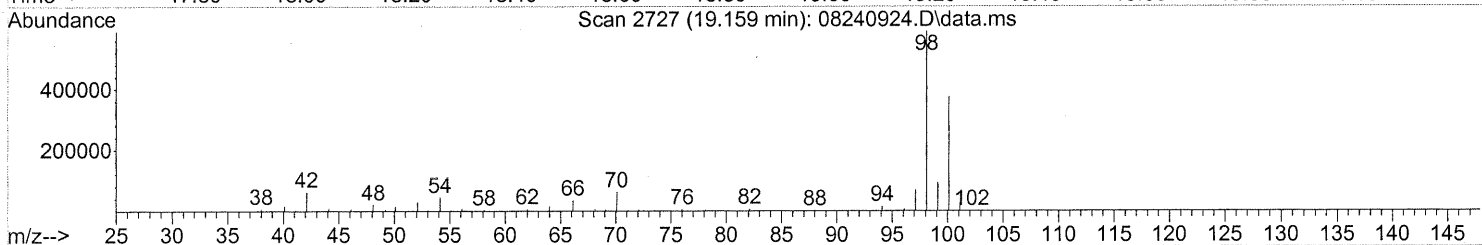
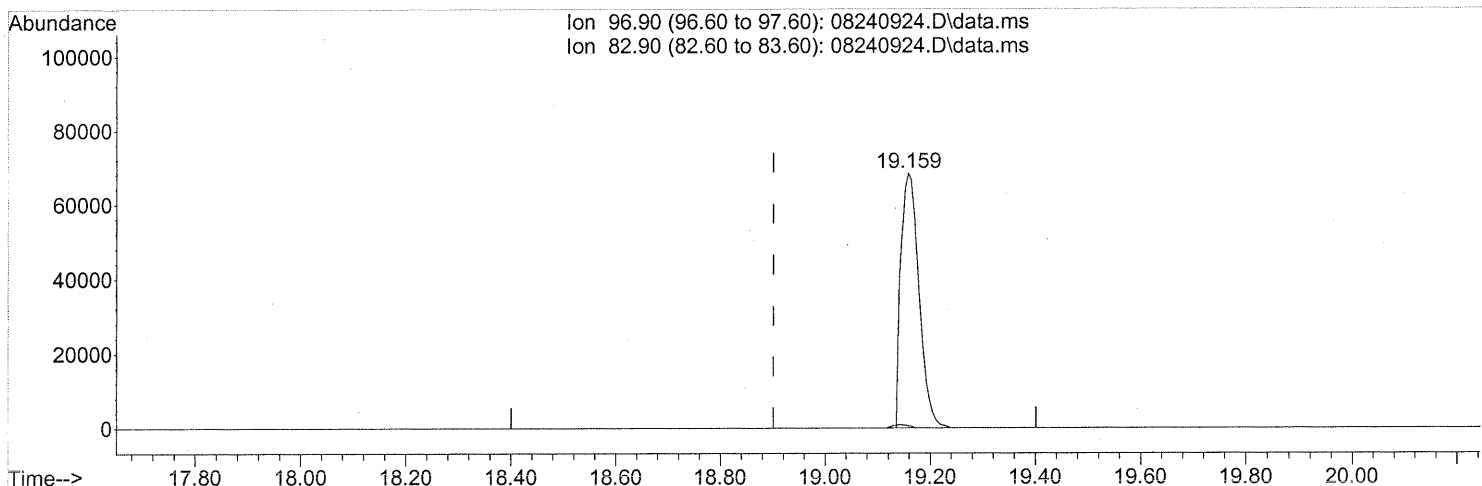
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.41	105	1194	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	25.41	57	3959	0.073	ng #	38
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	25.34	146	386	N.D.		
86) 1,4-Dichlorobenzene	25.34	146	386	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	26.02	105	4833	0.051	ng #	47
90) 1,2-Dichlorobenzene	25.34	146	386	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	26.51	57	1073	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.96	128	1070	N.D.		
96) n-Dodecane	27.89	57	109	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.54	55	1561	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:\MS09\Data\2009_08\24\
 Data File : 08240924.D
 Acq On : 25 Aug 2009 00:39
 Operator : EM
 Sample : P0902832-006 (1000ml)
 Misc : Eng. H&E 101656
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 25 07:37:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240924.D\data.ms

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

19.159min (+0.257) 7.90ng

response 163095

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	0.98#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/28/09

@ 8/30/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P090824-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/24/09
 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: 8/31/09 **244**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P090824-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/24/09
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
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
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	1.0	ND	0.24	
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: _____

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902832
CAS Sample ID: P090824-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/24/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

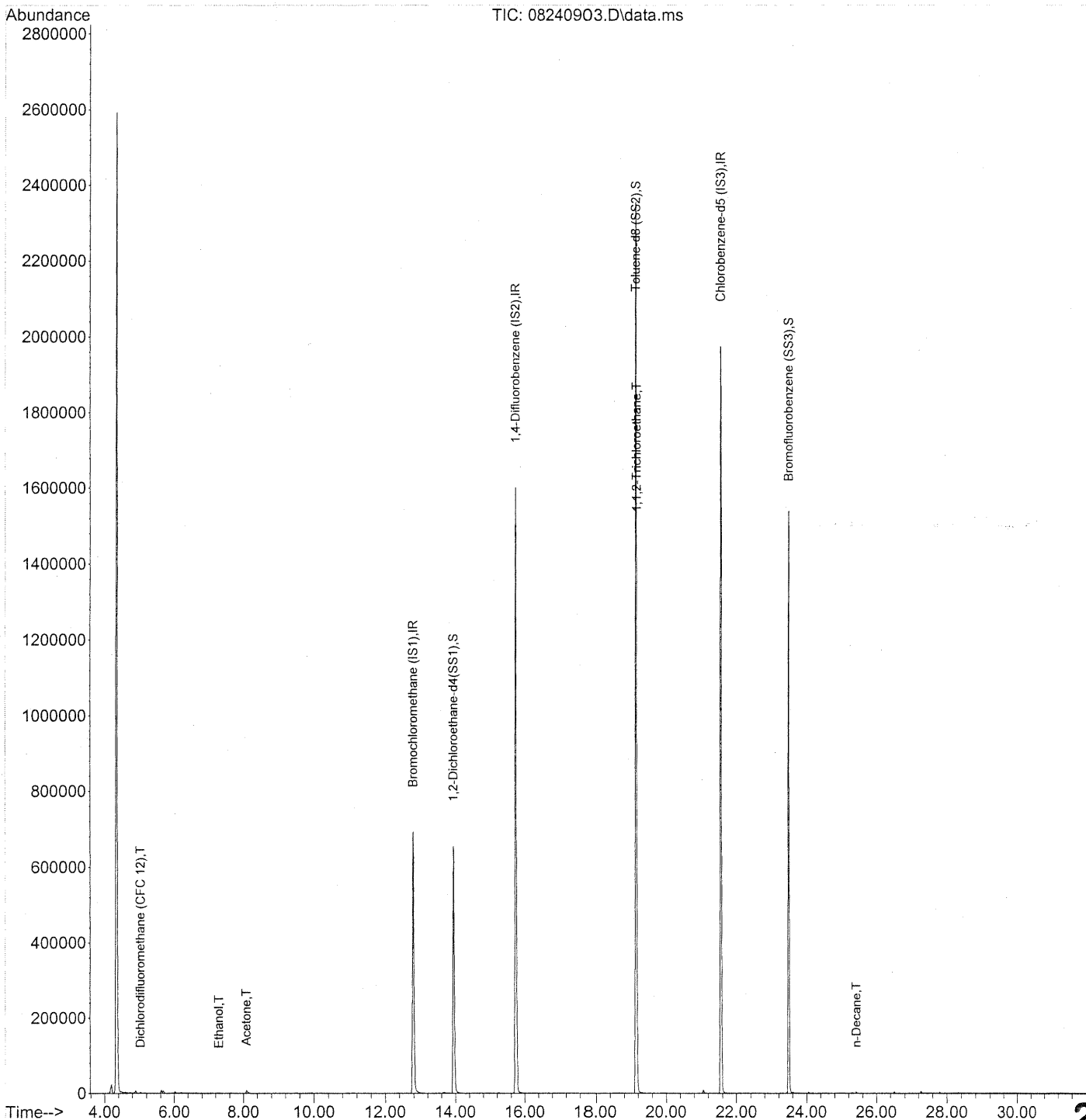
Table with 7 columns: CAS #, Compound, Result (µg/m³), MRL (µg/m³), Result (ppbV), MRL (ppbV), and Data Qualifier. It lists various chemical compounds and their corresponding results and reporting limits.

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.

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240903.D
Acq On : 24 Aug 2009 9:03
Operator : EM
Sample : TO-15 Method Blank (1000ml)
Misc : S20-08130905
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 10:04:34 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240903.D
 Acq On : 24 Aug 2009 9:03
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 10:04:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.79	130	365870	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1871346	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	857243	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	649414	25.103	ng	-0.04
Spiked Amount	25.000		Recovery	=	100.40%	✓
57) Toluene-d8 (SS2)	19.14	98	2098212	25.747	ng	-0.02
Spiked Amount	25.000		Recovery	=	103.00%	✓
73) Bromofluorobenzene (SS3)	23.49	174	553938	24.001	ng	0.00
Spiked Amount	25.000		Recovery	=	96.00%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.89	42	1473	N.D.		
3) Dichlorodifluoromethan...	5.03	85	3561	0.078	ng	# 93
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	7.29	45	1311	0.065	ng	# 36
11) Acetonitrile	7.64	41	790	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	8.09	58	5849	0.286	ng	88
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	9.52	84	742	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	9.93	76	3005	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:\MS09\Data\2009_08\24\
 Data File : 08240903.D
 Acq On : 24 Aug 2009 9:03
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 10:04:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 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)	13.67	72	374		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	0.00	56	0		N.D.	
41) Benzene	15.24	78	3554		N.D.	
42) Carbon Tetrachloride	0.00	117	0		N.D.	
43) Cyclohexane	15.75	84	854		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...	16.84	57	232		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	19.16	97	158356	7.365 ng	FP #	8
58) Toluene	19.29	91	1739		N.D.	
59) 2-Hexanone	0.00	43	0		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	22.32	91	107		N.D.	
67) m- & p-Xylenes	22.32	91	107		N.D.	
68) Bromoform	0.00	173	0		N.D.	
69) Styrene	0.00	104	0		N.D.	
70) o-Xylene	22.93	91	245		N.D.	
71) n-Nonane	0.00	43	0		N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
74) Cumene	23.65	105	217		N.D.	
75) alpha-Pinene	0.00	93	0		N.D.	
76) n-Propylbenzene	0.00	91	0		N.D.	
77) 3-Ethyltoluene	24.41	105	617		N.D.	
78) 4-Ethyltoluene	24.47	105	254		N.D.	
79) 1,3,5-Trimethylbenzene	24.56	105	454		N.D.	

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240903.D
 Acq On : 24 Aug 2009 9:03
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 10:04:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.80	105	135	N.D.		
82) 1,2,4-Trimethylbenzene	25.06	105	658	N.D.		
83) n-Decane	25.42	57	3220	0.061 ng	#	38
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.57	105	273	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	25.57	105	273	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	26.66	57	112	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.95	128	2323	N.D.		
96) n-Dodecane	27.89	57	103	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.57	55	641	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, Inc.
Client Project ID: 16512

CAS Project ID: P0902832

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 8/13/09
Date(s) Received: 8/18/09
Date(s) Analyzed: 8/24 - 8/25/09

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	P090824-MB	100	70-130	103	70-130	96	70-130	
Lab Control Sample	P090824-LCS	100	70-130	103	70-130	98	70-130	
101654	P0902832-001	100	70-130	103	70-130	98	70-130	
101655	P0902832-002	101	70-130	103	70-130	98	70-130	
101655	P0902832-002DUP	100	70-130	102	70-130	99	70-130	
101653	P0902832-003	99	70-130	102	70-130	100	70-130	
101657	P0902832-004	100	70-130	102	70-130	100	70-130	
101658	P0902832-005	100	70-130	101	70-130	101	70-130	
101656	P0902832-006	100	70-130	100	70-130	100	70-130	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0902832

CAS Sample ID: P090824-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

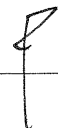
Date Collected: NA

Date Received: NA

Date Analyzed: 8/24/09

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	26.7	102	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	23.1	89	61-118	
74-87-3	Chloromethane	25.0	22.8	91	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	22.8	88	65-122	
75-01-4	Vinyl Chloride	25.3	22.4	89	57-132	
106-99-0	1,3-Butadiene	26.8	26.1	97	66-161	
74-83-9	Bromomethane	25.8	23.9	93	67-130	
75-00-3	Chloroethane	25.5	22.7	89	68-123	
64-17-5	Ethanol	130	118	91	50-155	
75-05-8	Acetonitrile	26.0	23.6	91	48-148	
107-02-8	Acrolein	26.3	27.2	103	67-138	
67-64-1	Acetone	132	114	86	59-121	
75-69-4	Trichlorofluoromethane	26.3	22.4	85	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	40.6	85	54-126	
107-13-1	Acrylonitrile	25.8	27.0	105	65-134	
75-35-4	1,1-Dichloroethene	27.5	24.0	87	70-123	
75-09-2	Methylene Chloride	26.8	22.3	83	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	26.7	99	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	25.5	93	69-126	
75-15-0	Carbon Disulfide	26.0	23.2	89	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	23.8	93	69-125	
75-34-3	1,1-Dichloroethane	26.5	23.9	90	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	24.4	93	72-132	
108-05-4	Vinyl Acetate	126	135	107	73-158	
78-93-3	2-Butanone (MEK)	26.8	28.1	105	68-126	

Verified By:  Date: 8/31/09 **253**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

CAS Project ID: P0902832
 CAS Sample ID: P090824-LCS

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/24/09
 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	24.6	91	69-124	
141-78-6	Ethyl Acetate	52.0	49.4	95	65-126	
110-54-3	n-Hexane	26.0	23.6	91	63-125	
67-66-3	Chloroform	27.5	23.8	87	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	26.0	98	65-124	
107-06-2	1,2-Dichloroethane	26.3	24.5	93	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	23.2	89	69-127	
71-43-2	Benzene	25.8	22.6	88	68-122	
56-23-5	Carbon Tetrachloride	26.3	23.8	90	68-137	
110-82-7	Cyclohexane	51.8	46.4	90	68-121	
78-87-5	1,2-Dichloropropane	26.0	24.0	92	69-128	
75-27-4	Bromodichloromethane	26.3	24.4	93	71-131	
79-01-6	Trichloroethene	25.8	22.6	88	72-122	
123-91-1	1,4-Dioxane	26.0	26.4	102	73-127	
80-62-6	Methyl Methacrylate	52.8	49.0	93	80-133	
142-82-5	n-Heptane	25.8	22.9	89	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	24.2	99	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	26.8	100	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	27.9	103	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	24.7	95	76-125	
108-88-3	Toluene	26.8	24.6	92	74-119	
591-78-6	2-Hexanone	27.0	26.6	99	64-118	
124-48-1	Dibromochloromethane	28.3	27.6	98	79-129	
106-93-4	1,2-Dibromoethane	26.3	26.5	101	79-125	
123-86-4	n-Butyl Acetate	27.5	28.7	104	70-136	

Verified By: _____ Date: 8/31/09 **254**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3


Client: Environmental Health & Engineering, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902832
 CAS Sample ID: P090824-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/24/09
Volume(s) Analyzed: NA Liter(s)

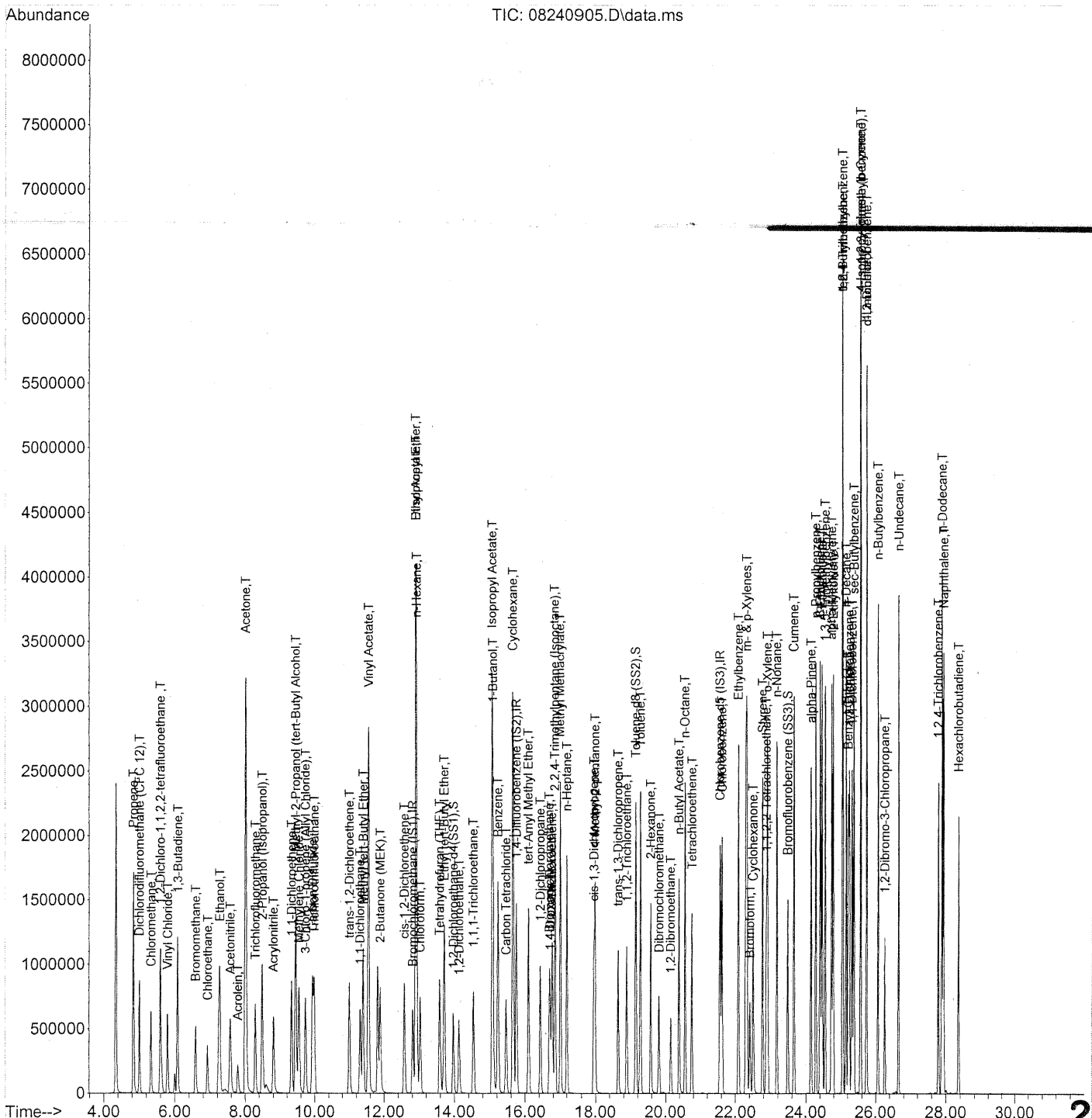
CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	25.3	96	75-126	
127-18-4	Tetrachloroethene	25.3	23.6	93	72-125	
108-90-7	Chlorobenzene	26.5	24.6	93	74-121	
100-41-4	Ethylbenzene	26.3	24.9	95	76-120	
179601-23-1	m,p-Xylenes	51.5	48.7	95	75-120	
75-25-2	Bromoform	26.5	25.8	97	76-143	
100-42-5	Styrene	26.3	26.2	100	78-124	
95-47-6	o-Xylene	26.0	24.8	95	76-121	
111-84-2	n-Nonane	25.8	25.1	97	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	26.5	98	77-126	
98-82-8	Cumene	25.3	23.8	94	78-125	
80-56-8	alpha-Pinene	24.8	23.5	95	78-125	
103-65-1	n-Propylbenzene	25.3	24.0	95	80-127	
622-96-8	4-Ethyltoluene	26.3	25.0	95	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	25.1	95	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	25.1	98	76-123	
100-44-7	Benzyl Chloride	26.8	27.9	104	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	25.5	98	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	24.4	93	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	24.6	95	75-124	
5989-27-5	d-Limonene	26.5	26.0	98	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	28.5	106	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	27.0	99	70-139	
91-20-3	Naphthalene	25.0	25.4	102	69-141	
87-68-3	Hexachlorobutadiene	26.8	26.2	98	68-138	

Verified By:  Date: 8/31/09 **255**

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240905.D
Acq On : 24 Aug 2009 10:29
Operator : EM
Sample : 25ng TO-15 LCS STD
Misc : S20-08130905/S20-08070903
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 12:00:36 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240905.D
 Acq On : 24 Aug 2009 10:29
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 12:00:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.82	130	345971	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.76	114	1775507	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.56	82	818448	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	610751	24.966	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.88%	✓
57) Toluene-d8 (SS2)	19.15	98	2005359	25.774	ng	-0.01
Spiked Amount	25.000		Recovery	=	103.08%	✓
73) Bromofluorobenzene (SS3)	23.49	174	540155	24.513	ng	0.00
Spiked Amount	25.000		Recovery	=	98.04%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	810237	26.698	ng	96
3) Dichlorodifluoromethan...	5.01	85	1000558	23.096	ng	99
4) Chloromethane	5.34	50	922154	22.840	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	522741	22.835	ng	99
6) Vinyl Chloride	5.80	62	890363	22.355	ng	98
7) 1,3-Butadiene	6.09	54	737608	26.073	ng	98
8) Bromomethane	6.59	94	498617	23.942	ng	99
9) Chloroethane	6.93	64	448834	22.715	ng	100
10) Ethanol	7.27	45	2237624m	117.540	ng	
11) Acetonitrile	7.58	41	1098740	23.649	ng	98
12) Acrolein	7.79	56	338238	27.244	ng	98
13) Acetone	8.01	58	2203718	113.756	ng	89
14) Trichlorofluoromethane	8.29	101	829853	22.401	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	2156499m	40.648	ng	
16) Acrylonitrile	8.81	53	759963	27.008	ng	99
17) 1,1-Dichloroethene	9.33	96	522665	24.041	ng	97
18) 2-Methyl-2-Propanol (t...	9.45	59	2677470	49.712	ng	97
19) Methylene Chloride	9.54	84	538861	22.295	ng	87
20) 3-Chloro-1-propene (Al...	9.73	41	865685	26.708	ng	89
21) Trichlorotrifluoroethane	9.99	151	422179	25.462	ng	97
22) Carbon Disulfide	9.94	76	1976949	23.178	ng	99
23) trans-1,2-Dichloroethene	11.01	61	792965	23.769	ng	92
24) 1,1-Dichloroethane	11.32	63	978139	23.940	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1617323	24.428	ng	96
26) Vinyl Acetate	11.56	86	566305	134.972	ng	# 66
27) 2-Butanone (MEK)	11.89	72	379536	28.102	ng	# 81
28) cis-1,2-Dichloroethene	12.58	61	767038	24.639	ng	93
29) Diisopropyl Ether	12.91	87	461379	24.063	ng	# 66
30) Ethyl Acetate	12.91	61	432523	49.386	ng	96
31) n-Hexane	12.93	57	1007584	23.601	ng	99

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Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240905.D
Acq On : 24 Aug 2009 10:29
Operator : EM
Sample : 25ng TO-15 LCS STD
Misc : S20-08130905/S20-08070903
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 12:00:36 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.03	83	849056	23.762	ng	100
34) Tetrahydrofuran (THF)	13.58	72	365303	26.017	ng #	86
35) Ethyl tert-Butyl Ether	13.71	87	637224	23.293	ng #	86
36) 1,2-Dichloroethane	14.14	62	669243	24.477	ng	99
38) 1,1,1-Trichloroethane	14.54	97	750322	23.235	ng	99
39) Isopropyl Acetate	15.07	61	750770	51.811	ng #	80
40) 1-Butanol	15.09	56	1252200	54.424	ng	85
41) Benzene	15.23	78	2158455	22.605	ng	99
42) Carbon Tetrachloride	15.46	117	634474	23.772	ng	99
43) Cyclohexane	15.66	84	1714078	46.354	ng	87
44) tert-Amyl Methyl Ether	16.10	73	1571087	23.410	ng	98
45) 1,2-Dichloropropane	16.44	63	561891	23.988	ng	98
46) Bromodichloromethane	16.70	83	682788	24.444	ng	99
47) Trichloroethene	16.78	130	547023	22.563	ng	100
48) 1,4-Dioxane	16.72	88	448630	26.417	ng	88
49) 2,2,4-Trimethylpentane...	16.86	57	2488530	22.645	ng	94
50) Methyl Methacrylate	17.02	100	467790	49.029	ng	90
51) n-Heptane	17.21	71	582119	22.901	ng	94
52) cis-1,3-Dichloropropene	17.95	75	855293	24.233	ng	100
53) 4-Methyl-2-pentanone	17.99	58	553460	26.823	ng	94
54) trans-1,3-Dichloropropene	18.64	75	862260	27.926	ng	100
55) 1,1,2-Trichloroethane	18.89	97	503890	24.701	ng	99
58) Toluene	19.28	91	2315664	24.551	ng	100
59) 2-Hexanone	19.58	43	1305448	26.631	ng	98
60) Dibromochloromethane	19.82	129	555394	27.577	ng	100
61) 1,2-Dibromoethane	20.15	107	562336	26.490	ng	99
62) n-Butyl Acetate	20.39	43	1537301	28.741	ng	98
63) n-Octane	20.56	57	531519	25.281	ng	91
64) Tetrachloroethene	20.76	166	551898	23.580	ng	99
65) Chlorobenzene	21.62	112	1424782	24.598	ng	100
66) Ethylbenzene	22.09	91	2534593	24.890	ng	99
67) m- & p-Xylenes	22.33	91	3927837	48.654	ng	100
68) Bromoform	22.42	173	450880	25.791	ng	100
69) Styrene	22.77	104	1565435	26.233	ng	99
70) o-Xylene	22.92	91	2012626	24.781	ng	99
71) n-Nonane	23.17	43	1225575	25.058	ng	93
72) 1,1,2,2-Tetrachloroethane	22.89	83	923216	26.463	ng	100
74) Cumene	23.66	105	2506862	23.806	ng	99
75) alpha-Pinene	24.15	93	1219100	23.465	ng	100
76) n-Propylbenzene	24.28	91	3129629	24.047	ng	99
77) 3-Ethyltoluene	24.41	105	2471252	25.050	ng	100
78) 4-Ethyltoluene	24.46	105	2478804	24.994	ng	98
79) 1,3,5-Trimethylbenzene	24.55	105	2058622	25.104	ng	100

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240905.D
 Acq On : 24 Aug 2009 10:29
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 12:00:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

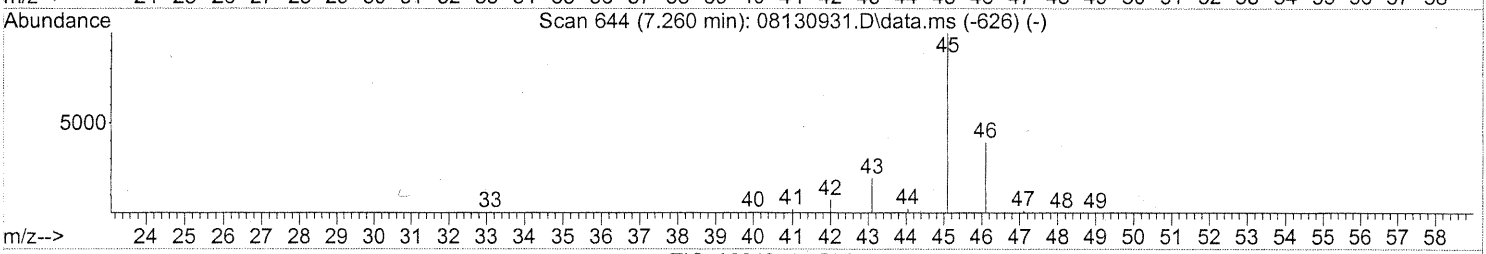
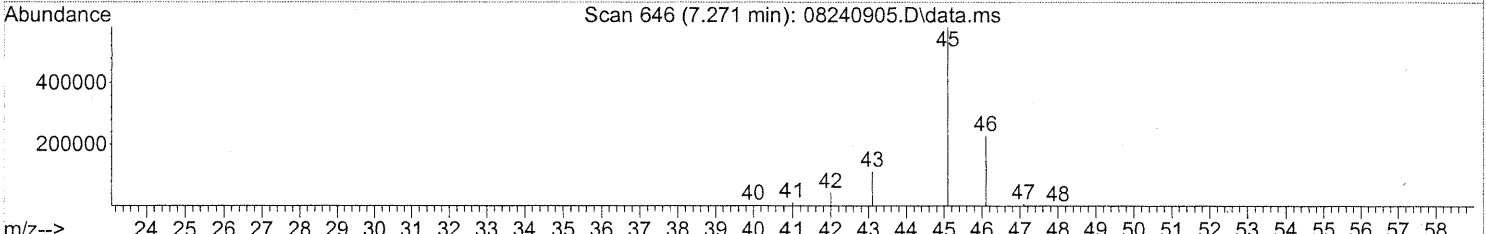
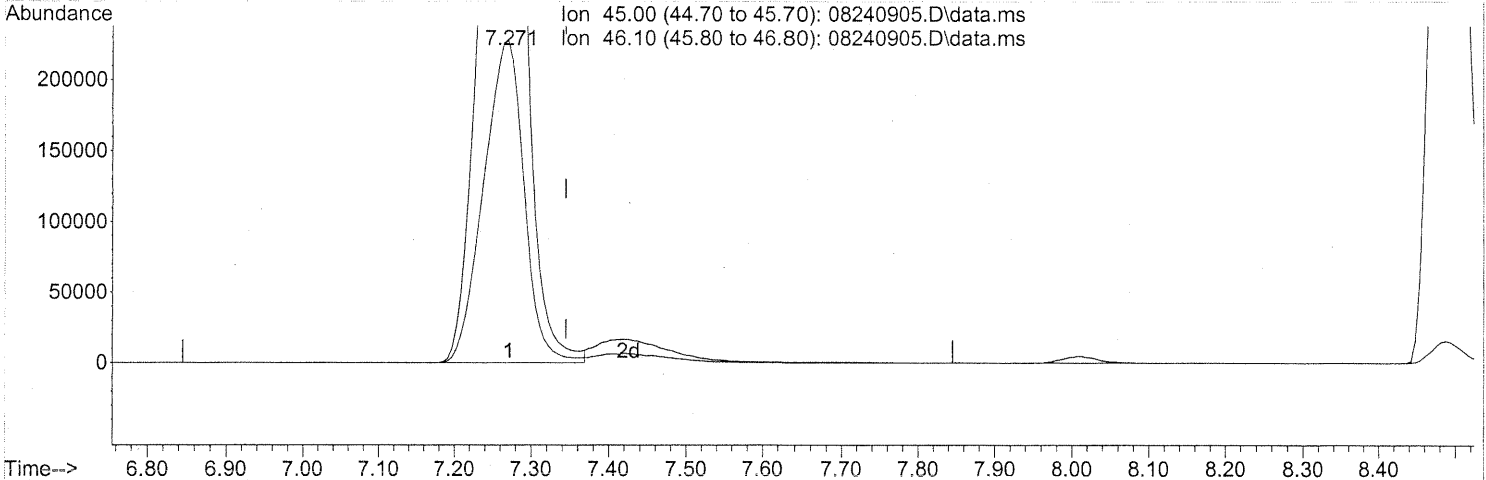
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1141789	25.661	ng	99
81) 2-Ethyltoluene	24.79	105	2453440	24.083	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2182800	25.070	ng	99
83) n-Decane	25.15	57	1266833	24.998	ng	95
84) Benzyl Chloride	25.22	91	1879741	27.906	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1148065	25.470	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1164652	24.352	ng	100
87) sec-Butylbenzene	25.38	105	2791373	24.329	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	2663169	24.226	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2186870	24.849	ng	98
90) 1,2-Dichlorobenzene	25.75	146	1113615	24.605	ng	100
91) d-Limonene	25.74	68	926004	25.995	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.26	157	389631	28.507	ng	96
93) n-Undecane	26.65	57	1345557	25.695	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	853574	26.995	ng	99
95) Naphthalene	27.94	128	2965780	25.387	ng	100
96) n-Dodecane	27.89	57	1385985	23.645	ng	96
97) Hexachlorobutadiene	28.36	225	473936	26.248	ng	99
98) Cyclohexanone	22.51	55	748566	25.200	ng	95
99) tert-Butylbenzene	25.05	119	2125555	24.616	ng	99
100) n-Butylbenzene	26.07	91	2314579	25.347	ng	100

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240905.D
 Acq On : 24 Aug 2009 10:29
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 11:57:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240905.D\data.ms

(10) Ethanol (T)

7.271min (-0.074) 111.54ng

response 2123479

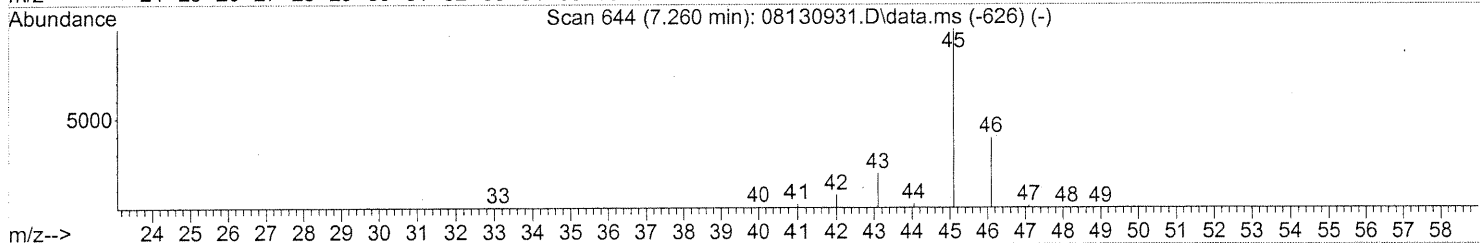
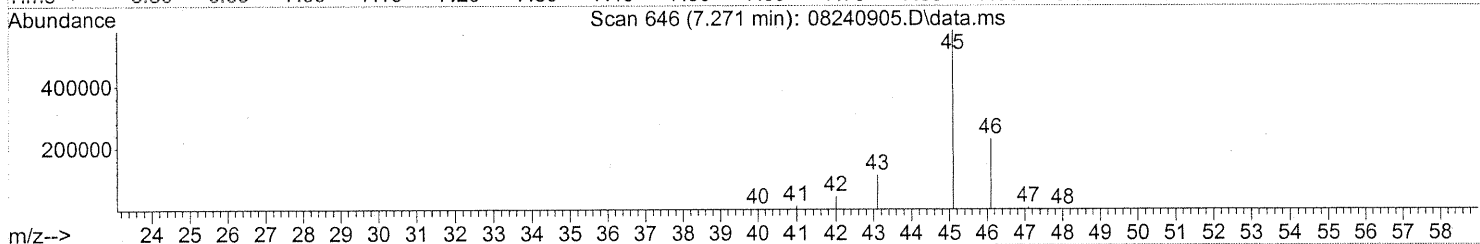
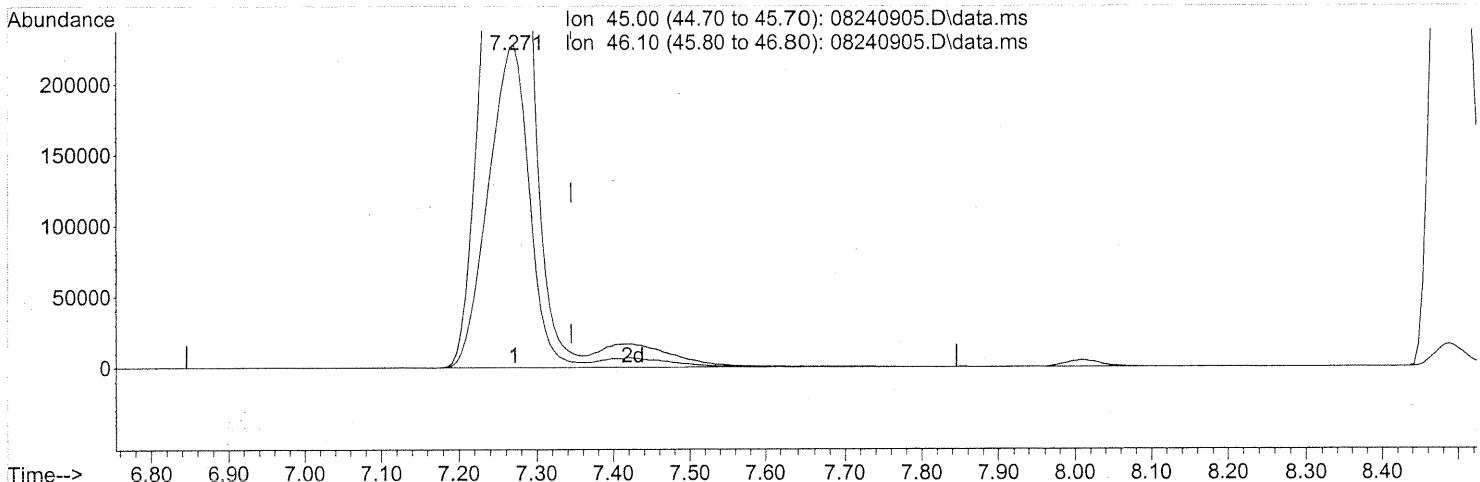
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.22
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240905.D
Acq On : 24 Aug 2009 10:29
Operator : EM
Sample : 25ng TO-15 LCS STD
Misc : S20-08130905/S20-08070903
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 11:57:43 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08240905.D\data.ms

(10) Ethanol (T)

7.271min (-0.074) 117.54ng m

response 2237624

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.22
0.00	0.00	0.00
0.00	0.00	0.00

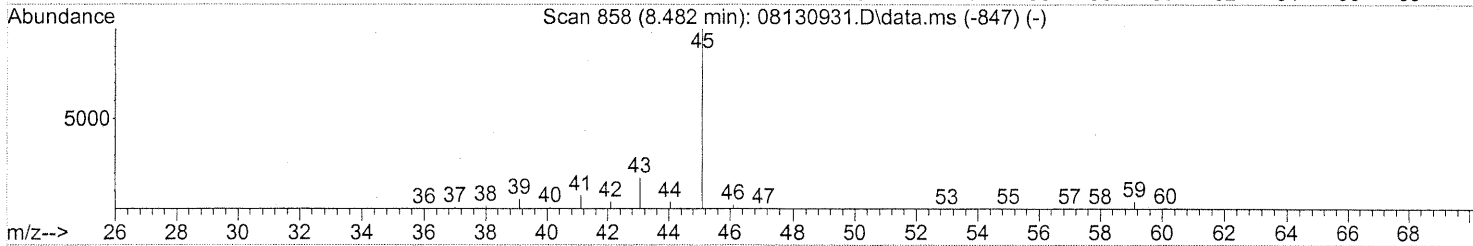
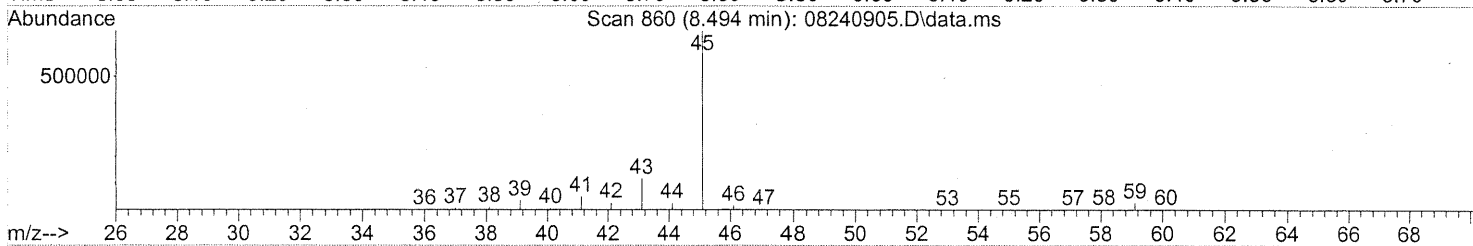
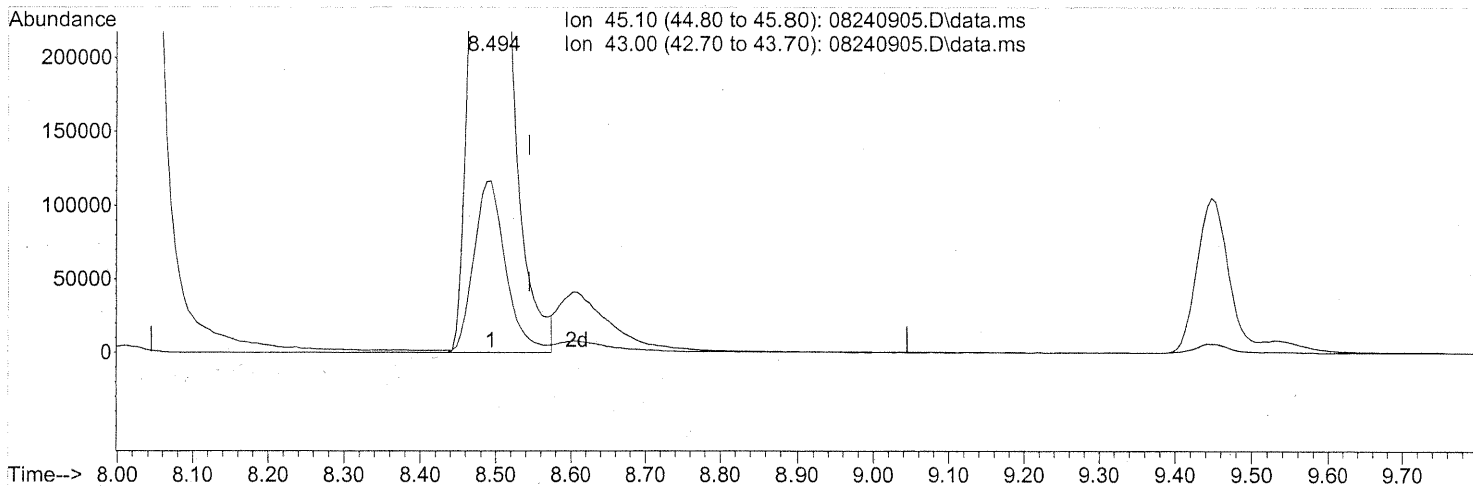
PT → IC
Em 8/24/09

8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240905.D
 Acq On : 24 Aug 2009 10:29
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 11:57:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.494min (-0.051) 36.80ng

response 1952218

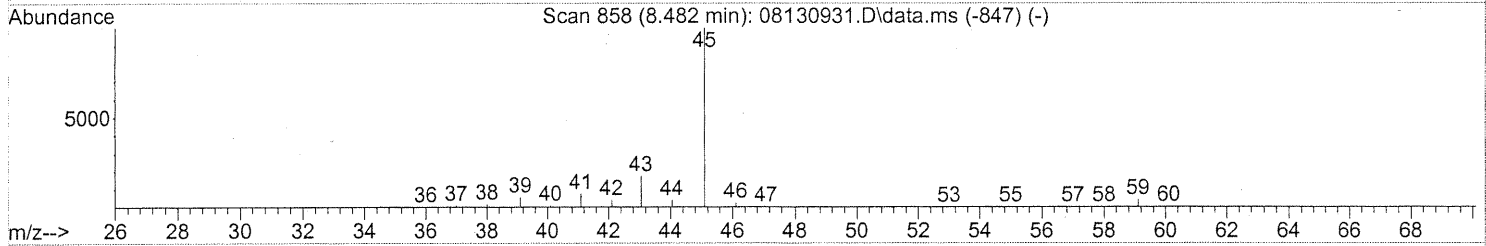
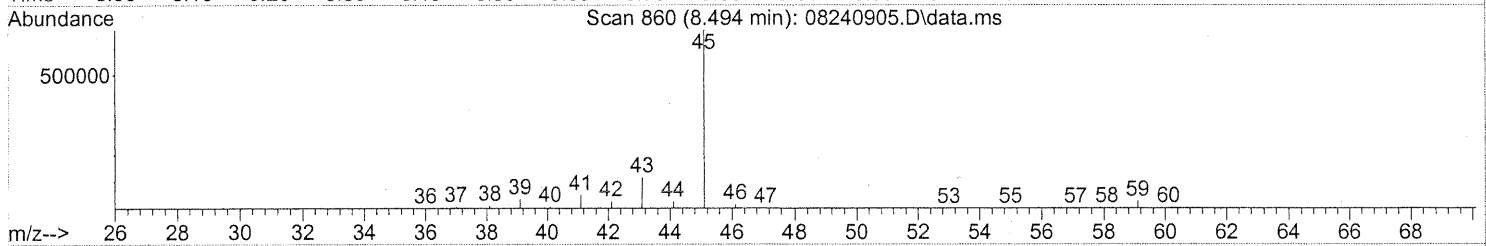
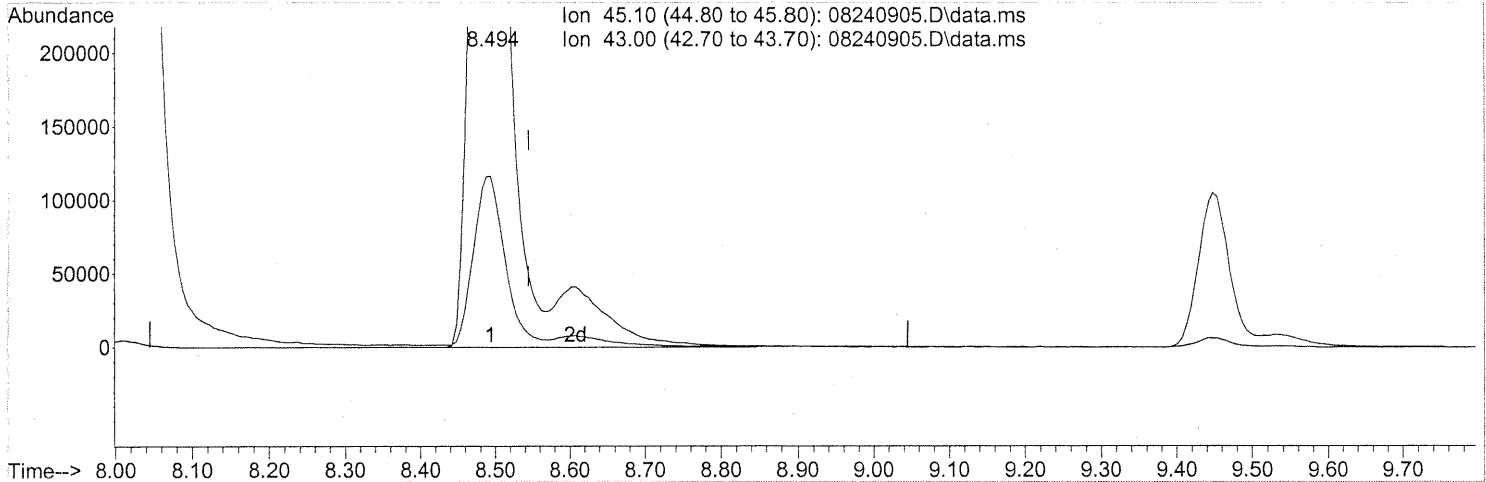
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.11
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240905.D
 Acq On : 24 Aug 2009 10:29
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 11:57:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.494min (-0.051) 40.65ng m

response 2156499

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	15.49
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
em 8/24/09
8/25/09

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101655
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01661

CAS Project ID: P0902832
CAS Sample ID: P0902832-002DUP

Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/24/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.4 **Final Pressure (psig):** 3.5

Canister Dilution Factor: 1.48

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Propene	ND	ND	ND	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	2.42	0.490	2.34	0.473	2.38	3	25	
Chloromethane	0.722	0.350	0.596	0.289	0.659	19	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	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	416	221	402	213	409	3	25	
Acetonitrile	209	124	204	121	206.5	2	25	E
Acrolein	7.27	3.17	6.99	3.05	7.13	4	25	
Acetone	93.7	39.5	91.3	38.5	92.5	3	25	
Trichlorofluoromethane	1.16	0.206	1.12	0.200	1.14	4	25	
2-Propanol (Isopropyl Alcohol)	6.95	2.83	6.58	2.68	6.765	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	0.531	0.0694	0.537	0.0701	0.534	1	25	
Carbon Disulfide	2.01	0.647	1.96	0.629	1.985	3	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	10.3	2.92	12.4	3.53	11.35	19	25	
2-Butanone (MEK)	6.47	2.19	6.25	2.12	6.36	3	25	

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

E = Estimated; concentration exceeded calibration range.

Verified By: _____ Date: 8/31/09 **264**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101655

Client Project ID: 16512

CAS Project ID: P0902832

CAS Sample ID: P0902832-002DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01661

Date Collected: 8/13/09

Date Received: 8/18/09

Date Analyzed: 8/24/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.4

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

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	4.74	1.32	4.76	1.32	4.75	0.4	25	
n-Hexane	3.31	0.939	3.16	0.898	3.235	5	25	
Chloroform	1.31	0.267	1.27	0.260	1.29	3	25	
Tetrahydrofuran (THF)	0.993	0.337	0.986	0.334	0.9895	0.7	25	
1,2-Dichloroethane	0.293	0.0724	0.286	0.0706	0.2895	2	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	1.48	0.463	1.44	0.452	1.46	3	25	
Carbon Tetrachloride	0.543	0.0864	0.528	0.0840	0.5355	3	25	
Cyclohexane	0.894	0.260	0.897	0.261	0.8955	0.3	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	2.06	0.504	1.99	0.486	2.025	3	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	16.9	4.12	16.5	4.03	16.7	2	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	14.7	3.90	14.2	3.77	14.45	3	25	
2-Hexanone	1.47	0.359	1.35	0.330	1.41	9	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	23.1	4.86	22.1	4.65	22.6	4	25	

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

Verified By: _____

Date: _____

8/31/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101655
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01661

CAS Project ID: P0902832
CAS Sample ID: P0902832-002DUP
Date Collected: 8/13/09
Date Received: 8/18/09
Date Analyzed: 8/24/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

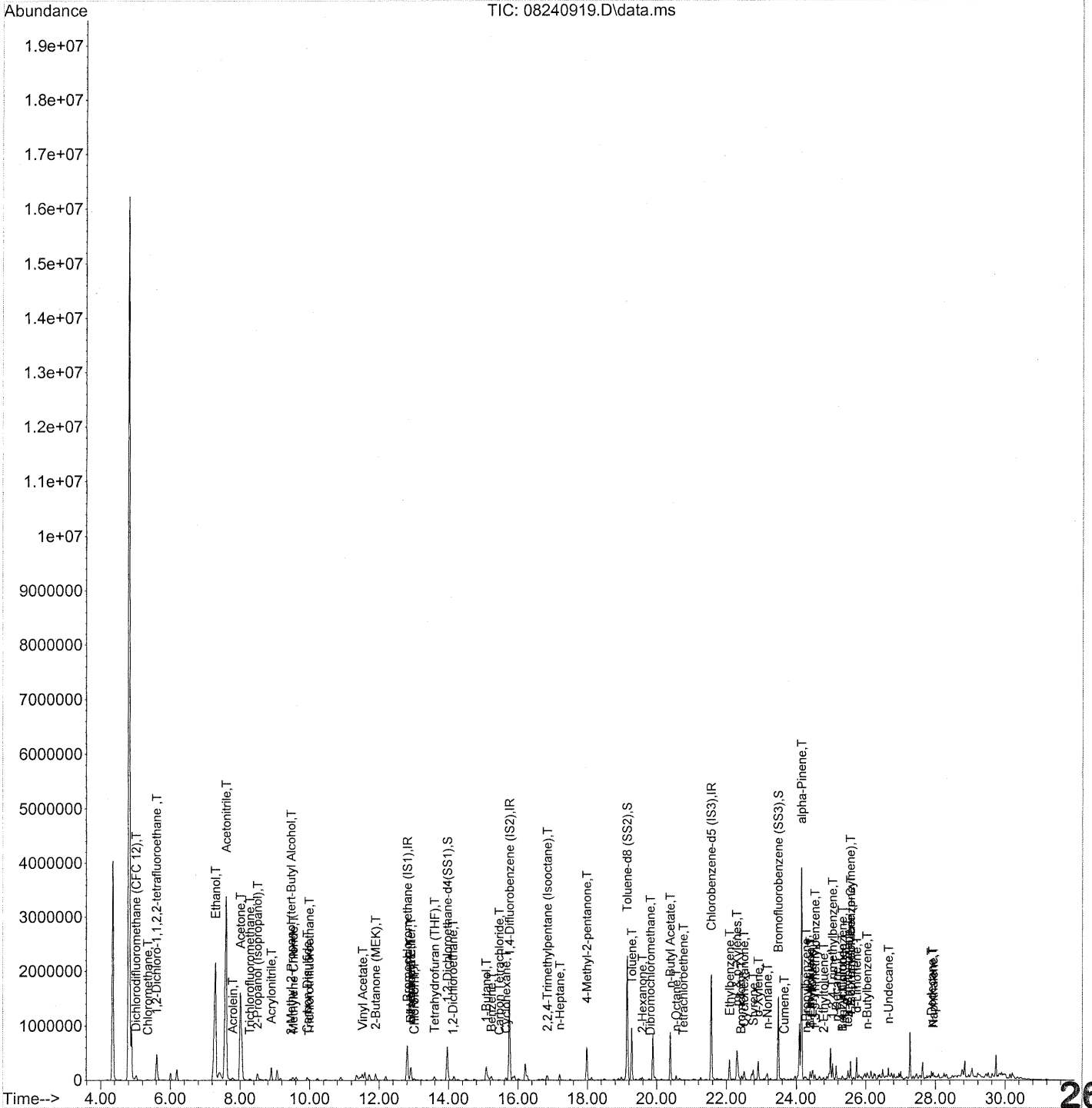
Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
n-Octane	1.32	0.282	1.27	0.271	1.295	4	25	
Tetrachloroethene	ND	ND	ND	ND	-	-	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	5.38	1.24	5.17	1.19	5.275	4	25	
m,p-Xylenes	10.2	2.35	9.85	2.27	10.025	3	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	2.64	0.619	2.53	0.595	2.585	4	25	
o-Xylene	4.52	1.04	4.39	1.01	4.455	3	25	
n-Nonane	1.65	0.316	1.68	0.320	1.665	2	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	54.7	9.83	52.9	9.49	53.8	3	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	0.750	0.153	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	0.744	0.151	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	2.70	0.550	2.61	0.531	2.655	3	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	0.601	0.100	0.568	0.0946	0.5845	6	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	4.67	0.839	4.55	0.817	4.61	3	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	1.02	0.194	0.993	0.190	1.0065	3	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 **266**

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:37:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655 ✓
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:37:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	342978	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1742475	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	821988	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	608288	25.083	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.32%	✓
57) Toluene-d8 (SS2)	19.15	98	1997930	25.568	ng	-0.01
Spiked Amount	25.000		Recovery	=	102.28%	✓
73) Bromofluorobenzene (SS3)	23.49	174	550355	24.869	ng	0.00
Spiked Amount	25.000		Recovery	=	99.48%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	5.01	85	67844	1.580	ng	99
4) Chloromethane	5.35	50	16112	0.403	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1217	0.054	ng	# 43
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	1067	N.D.		
8) Bromomethane	6.58	94	834	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.29	45	5121565m	271.378	ng	
11) Acetonitrile	7.60	41	6342083	137.699	ng	E 99
12) Acrolein	7.79	56	58135	4.724	ng	97
13) Acetone	8.01	58	1184951	61.701	ng	90
14) Trichlorofluoromethane	8.28	101	27904	0.760	ng	99
15) 2-Propanol (Isopropanol)	8.50	45	233908m	4.447	ng	
16) Acrylonitrile	8.89	53	4141	0.148	ng	# 24
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.46	59	45127	0.845	ng	84
19) Methylene Chloride	9.53	84	5941	0.248	ng	85
20) 3-Chloro-1-propene (Al...	9.72	41	107	N.D.		
21) Trichlorotrifluoroethane	9.98	151	5961	0.363	ng	98
22) Carbon Disulfide	9.93	76	111951	1.324	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	11.35	73	731	N.D.		
26) Vinyl Acetate	11.52	86	34962m	8.405	ng	
27) 2-Butanone (MEK)	11.90	72	56547	4.224	ng	# 91
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.92	87	1063	0.056	ng	# 1
30) Ethyl Acetate	12.92	61	27915	3.215	ng	96
31) n-Hexane	12.92	57	90444	2.137	ng	92

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em 8/28/09

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:37:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	30367	0.857	ng	100
34) Tetrahydrofuran (THF)	13.60	72	9270	0.666	ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	5241	0.193	ng	94
38) 1,1,1-Trichloroethane	14.53	97	569	N.D.		
39) Isopropyl Acetate	15.09	61	108	N.D.		
40) 1-Butanol	15.08	56	251125	11.121	ng	81
41) Benzene	15.23	78	91384	0.975	ng	99
42) Carbon Tetrachloride	15.46	117	9348	0.357	ng	99
43) Cyclohexane	15.65	84	21988	0.606	ng	87
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.44	63	107	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.75	88	595	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	92731	0.860	ng	68
50) Methyl Methacrylate	17.04	100	374	N.D.		
51) n-Heptane	17.21	71	33536	1.344	ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.98	58	225982	11.160	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	19.28	91	909472	9.601	ng	100
59) 2-Hexanone	19.59	43	44885	0.912	ng	89
60) Dibromochloromethane	19.82	129	1313	0.065	ng	89
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	801944	14.929	ng	99
63) n-Octane	20.56	57	18052	0.855	ng	89
64) Tetrachloroethene	20.76	166	2042	0.087	ng	94
65) Chlorobenzene	21.67	112	2065	N.D.		
66) Ethylbenzene	22.09	91	356955	3.490	ng	98
67) m- & p-Xylenes	22.30	91	539521	6.654	ng	99
68) Bromoform	22.42	173	1427	0.081	ng #	69
69) Styrene	22.77	104	102520	1.711	ng	99
70) o-Xylene	22.92	91	242132	2.969	ng	98
71) n-Nonane	23.17	43	55590m	1.132	ng	
72) 1,1,2,2-Tetrachloroethane	22.92	83	379	N.D.		
74) Cumene	23.66	105	16839	0.159	ng	94
75) alpha-Pinene	24.15	93	1864307	35.729	ng	100
76) n-Propylbenzene	24.28	91	30300	0.232	ng	87
77) 3-Ethyltoluene	24.40	105	94448	0.953	ng	97
78) 4-Ethyltoluene	24.46	105	46856	0.470	ng	96
79) 1,3,5-Trimethylbenzene	24.55	105	37969	0.461	ng	95

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:37:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

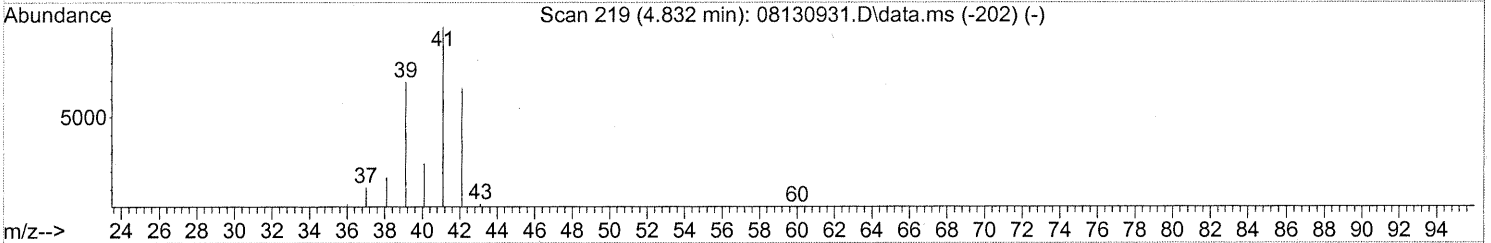
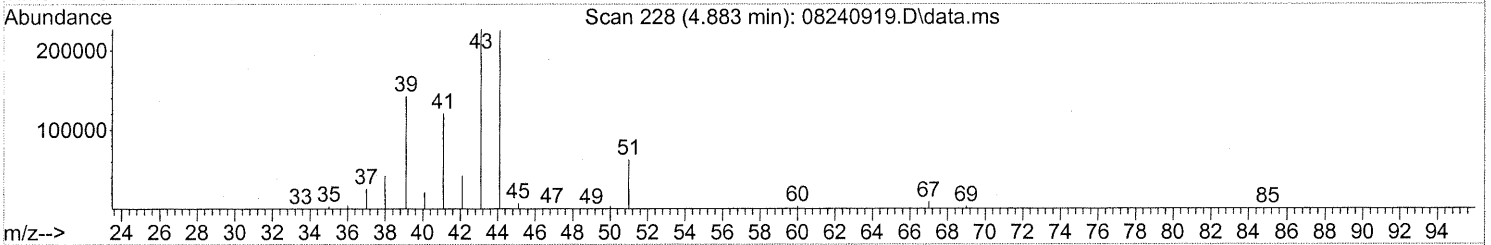
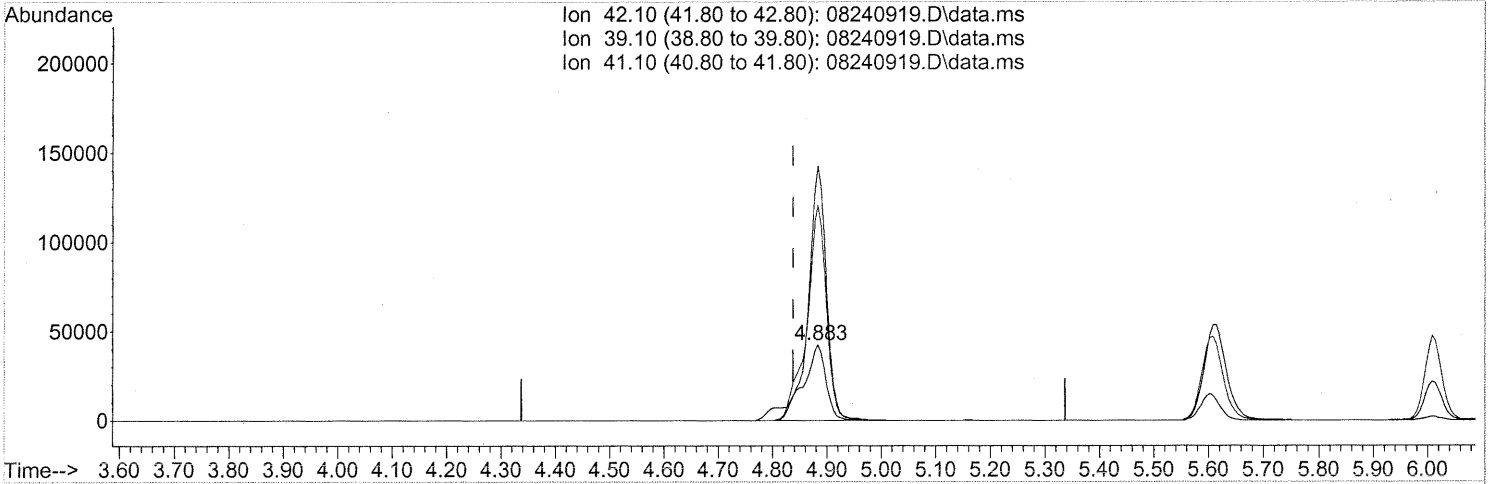
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.74	118	1156	N.D.		
81) 2-Ethyltoluene	24.79	105	35762	0.350 ng		98
82) 1,2,4-Trimethylbenzene	25.05	105	154266	1.764 ng		88
83) n-Decane	25.15	57	91760	1.803 ng		97
84) Benzyl Chloride	25.33	91	4120	0.061 ng	#	55
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.33	146	18450	0.384 ng		99
87) sec-Butylbenzene	25.39	105	4004	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	138050	1.250 ng		97
89) 1,2,3-Trimethylbenzene	25.57	105	59544	0.674 ng		86
90) 1,2-Dichlorobenzene	25.75	146	219	N.D.		
91) d-Limonene	25.74	68	110004	3.075 ng		99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	65150	1.239 ng		96
94) 1,2,4-Trichlorobenzene	27.79	180	109	N.D.		
95) Naphthalene	27.94	128	78699	0.671 ng		100
96) n-Dodecane	27.89	57	47595	0.808 ng		92
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	87490	2.933 ng		97
99) tert-Butylbenzene	25.49	119	9096	0.105 ng		99
100) n-Butylbenzene	26.04	91	36681	0.400 ng	#	23

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(2) Propene (T)

4.883min (+0.046) 4.54ng

response 136672

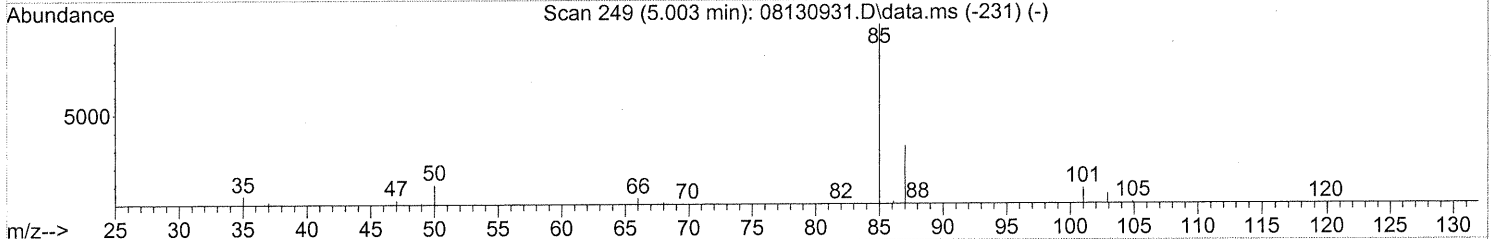
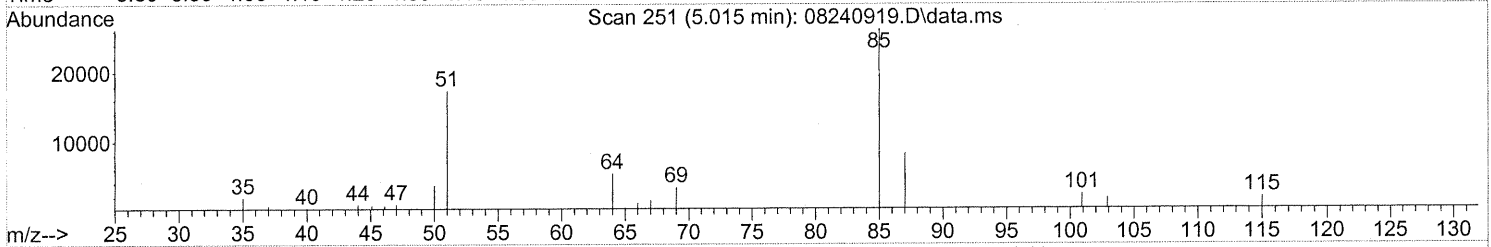
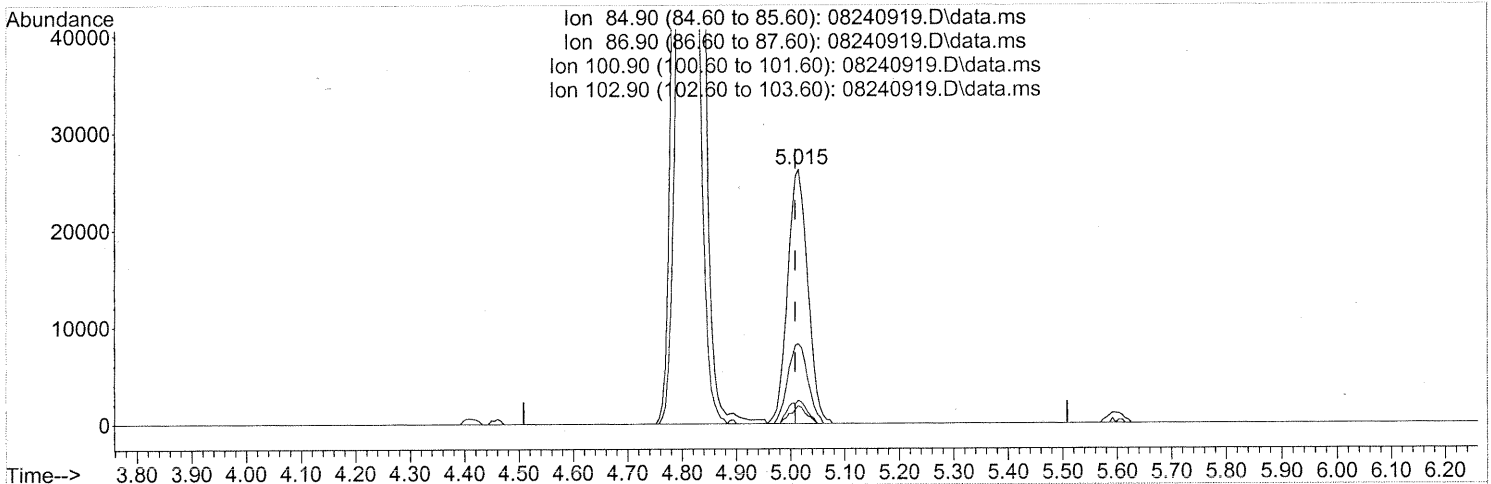
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	242.10#
41.10	152.70	220.98#
0.00	0.00	0.00

FP em 8/28/09
cc 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.015min (+0.006) 1.58ng

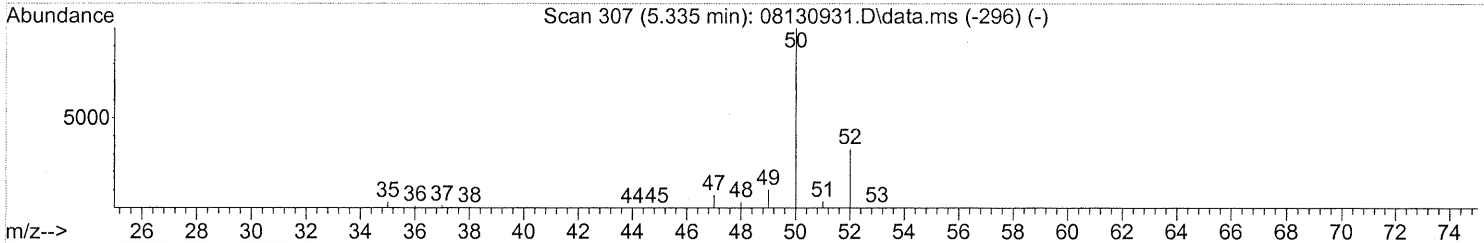
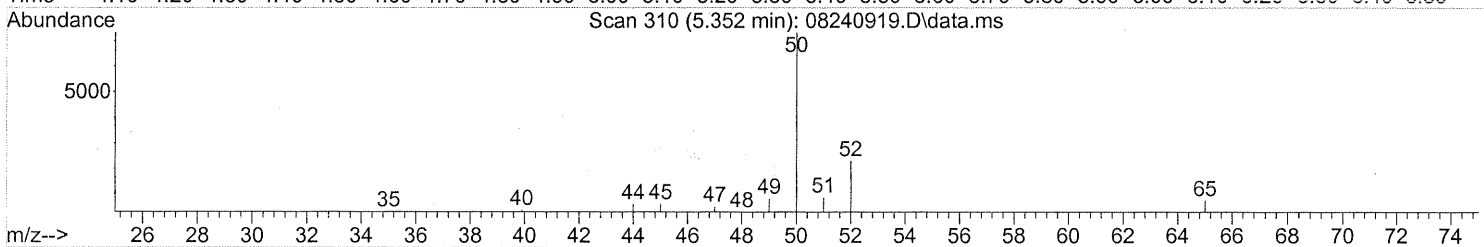
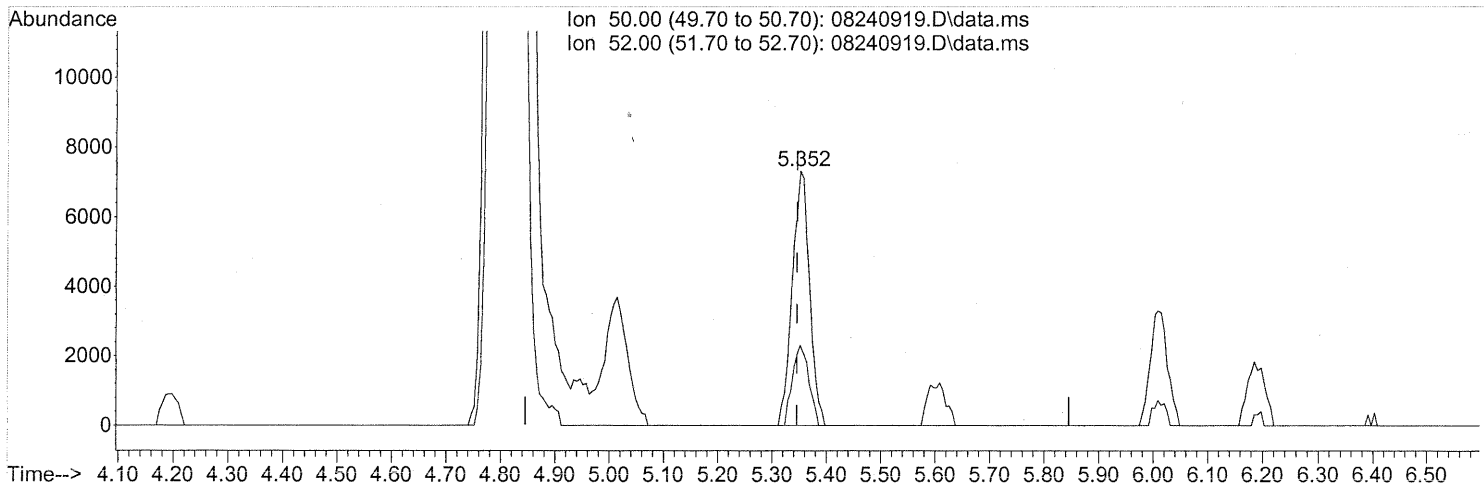
response 67844

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.27
100.90	9.10	8.36
102.90	5.50	5.43

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

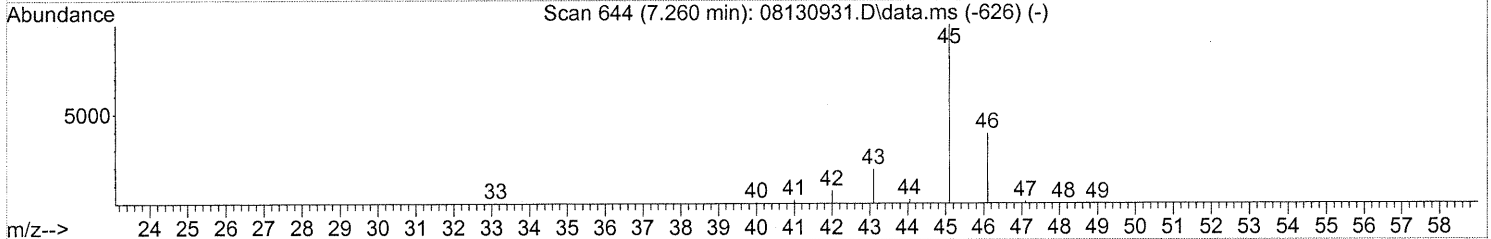
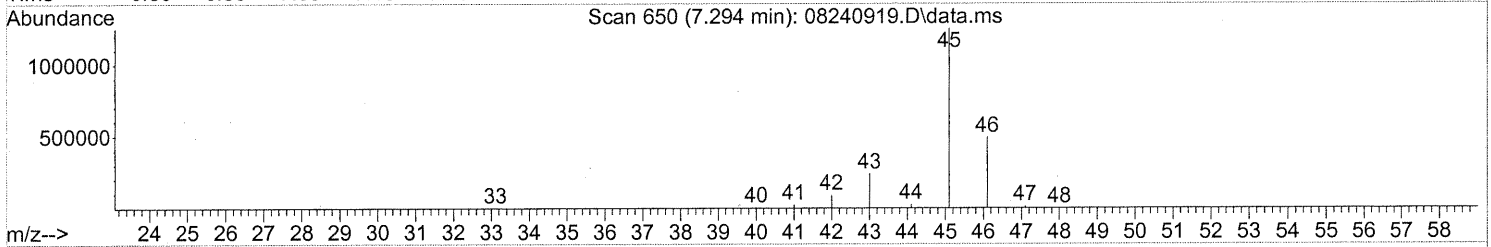
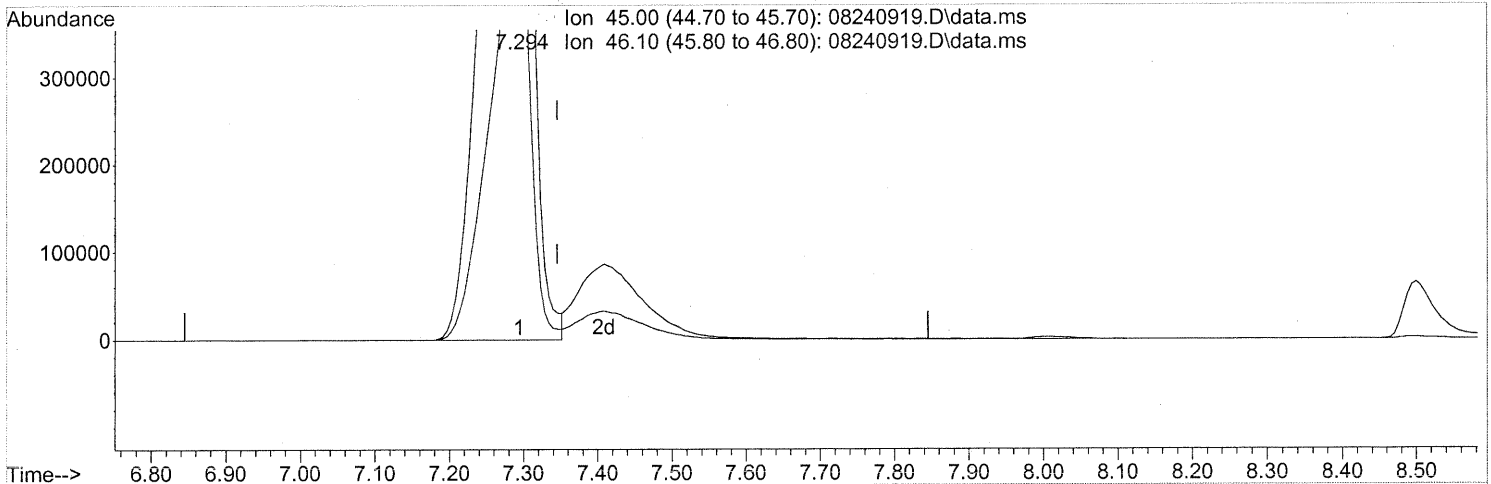
(4) Chloromethane (T)
 5.352min (+0.006) 0.40ng
 response 16112

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	29.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(10) Ethanol (T)
 7.294min (-0.051) 243.16ng
 response 4588972

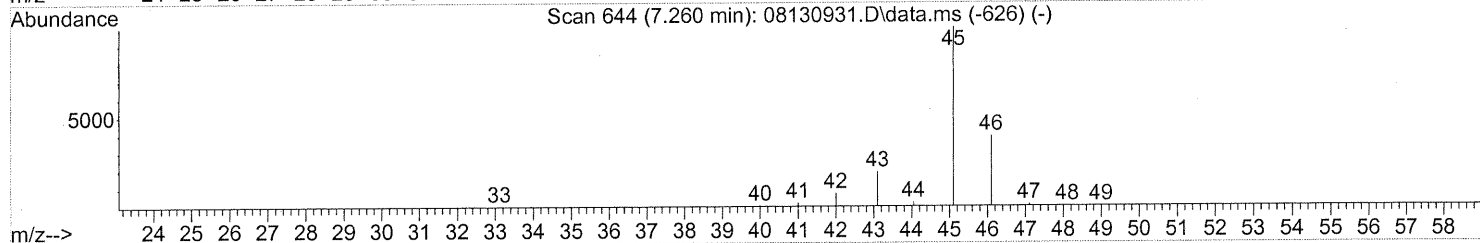
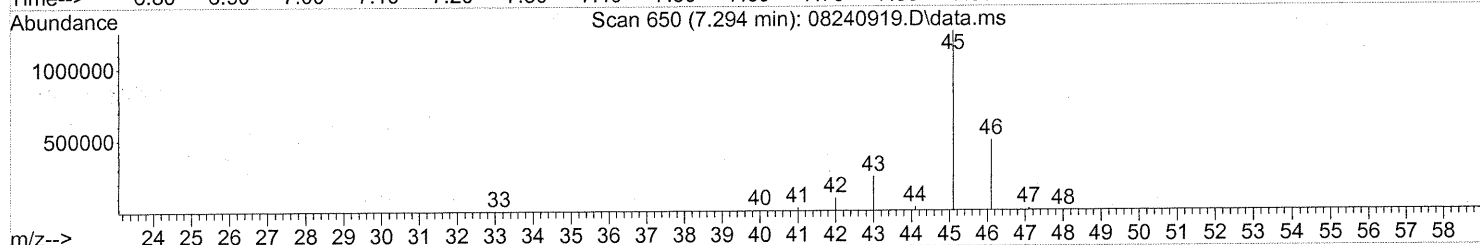
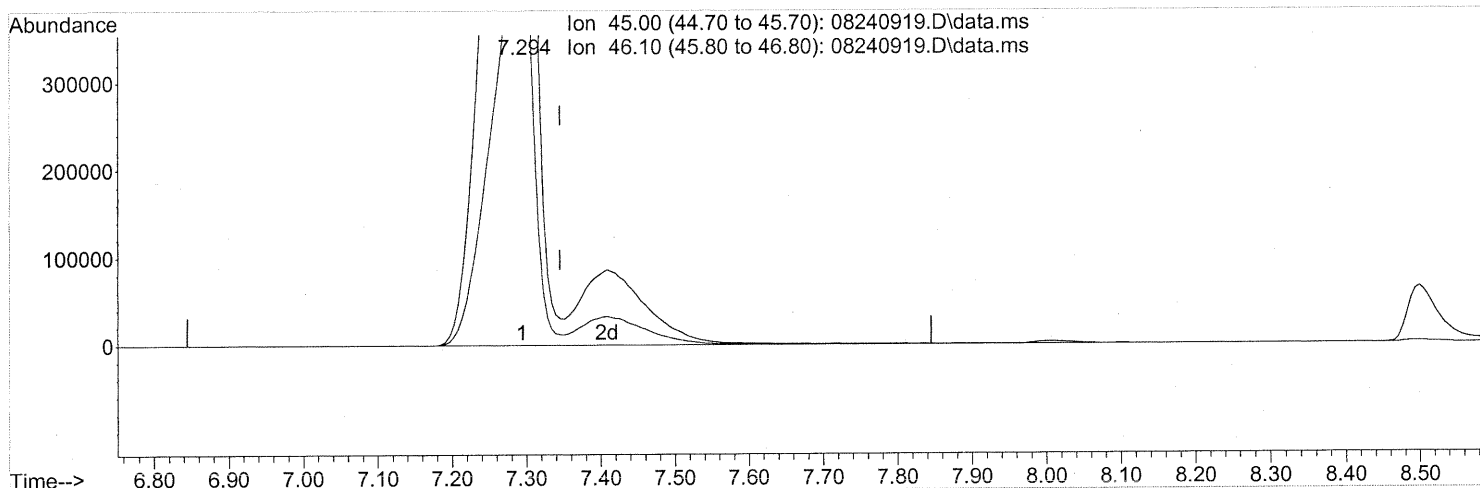
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.29
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(10) Ethanol (T)
 7.294min (-0.051) 271.38ng m
 response 5121565

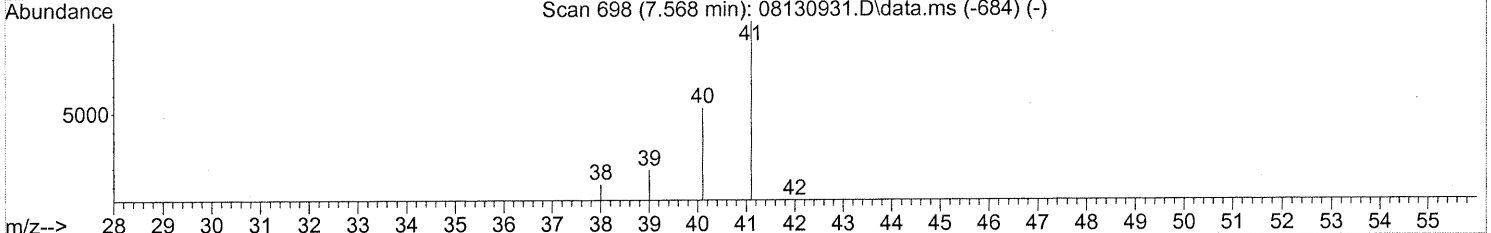
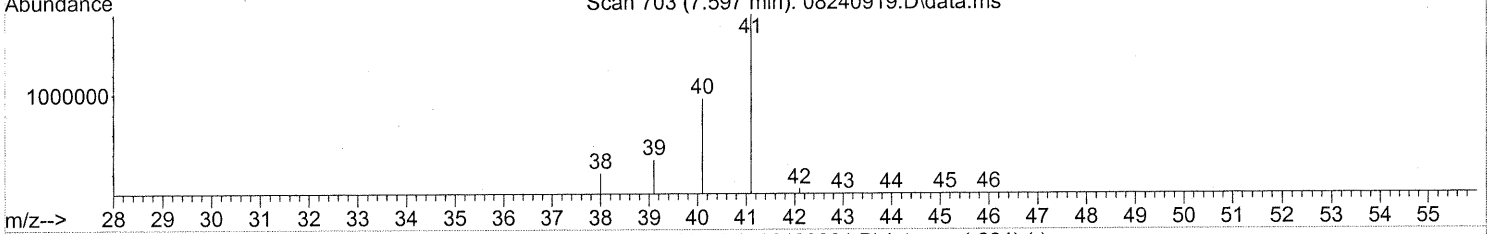
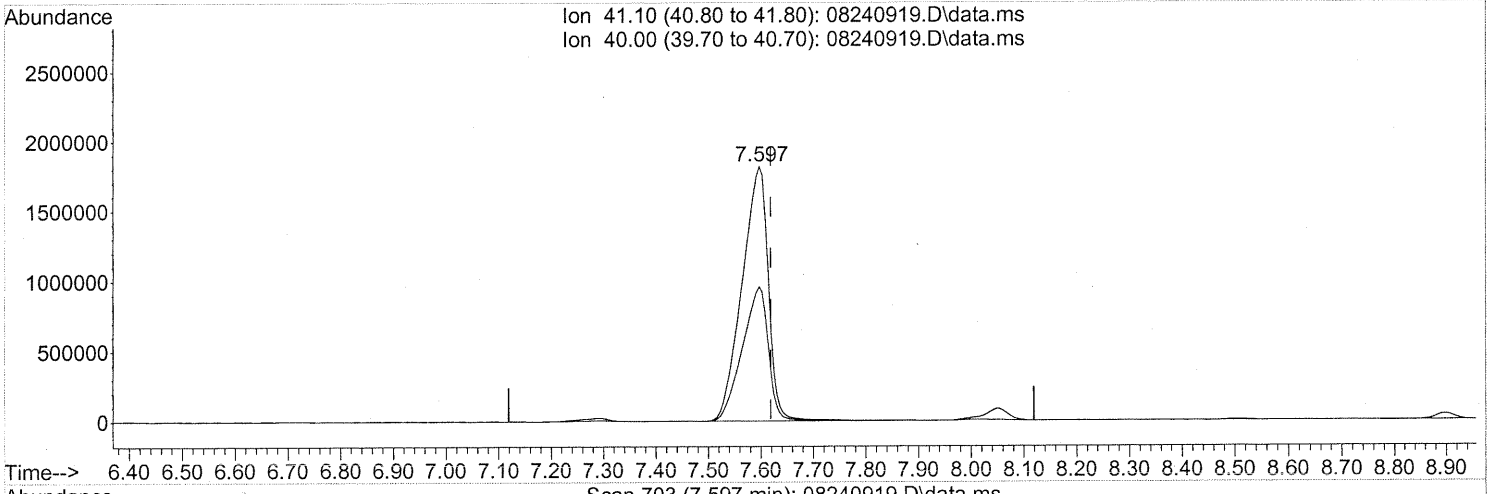
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	35.20
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
Em 8/28/09
@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(11) Acetonitrile (T)
 7.597min (-0.023) 137.70ng
 response 6342083

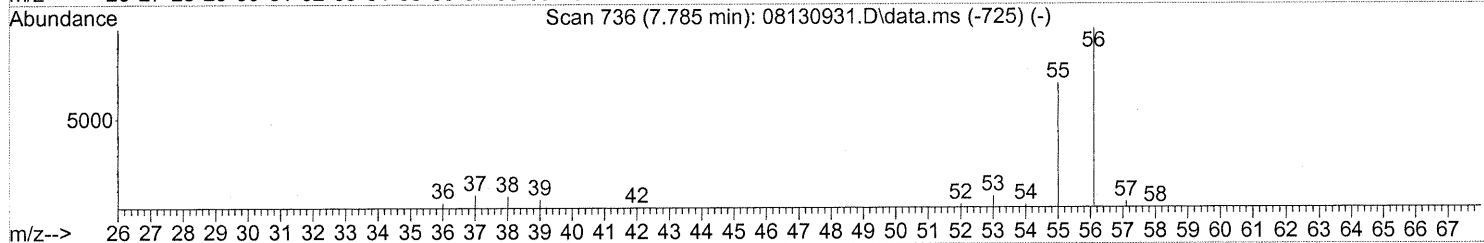
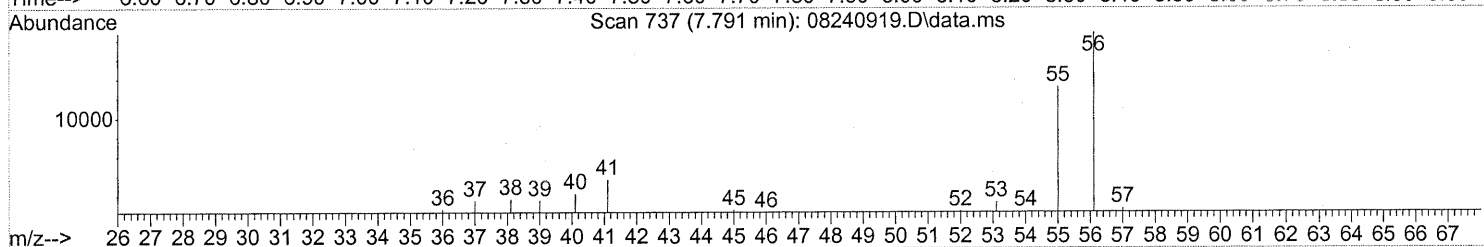
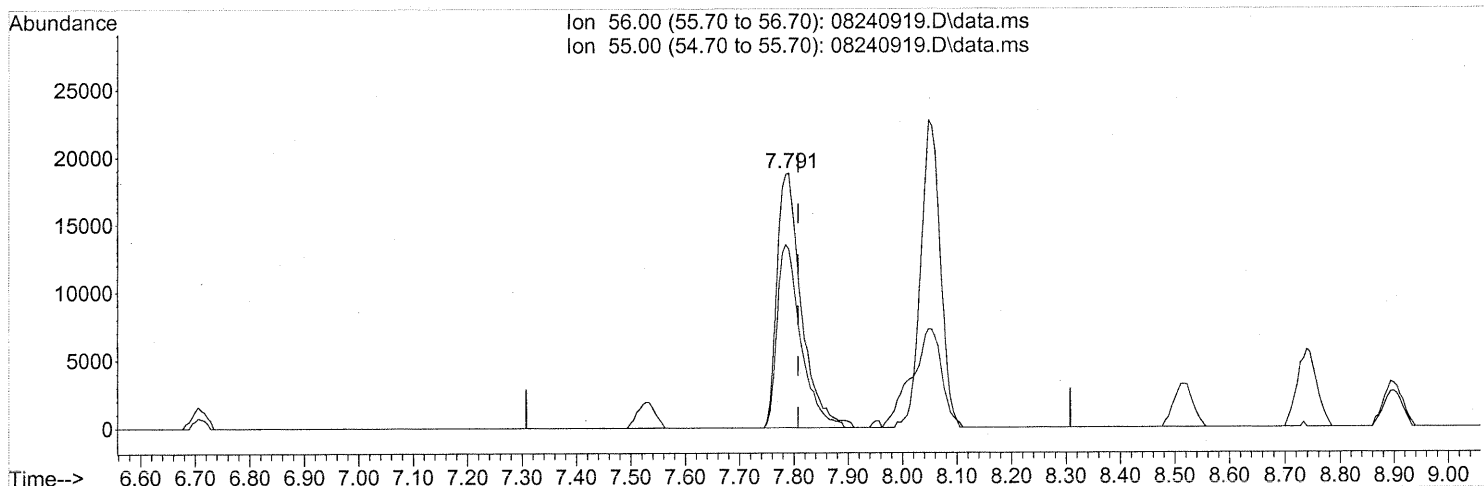
E

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

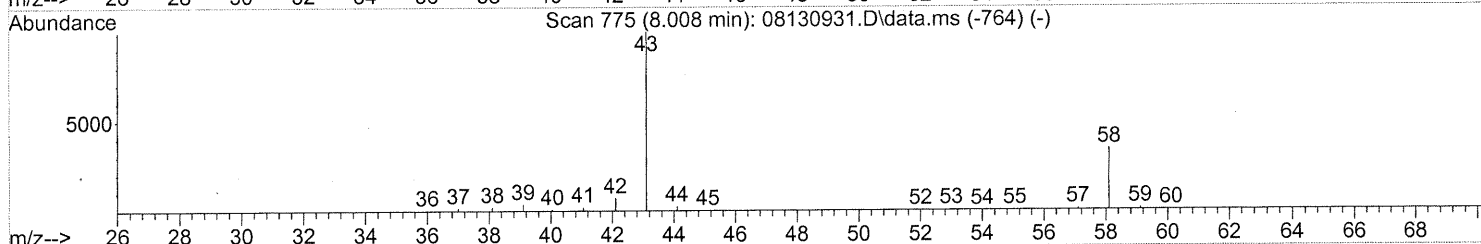
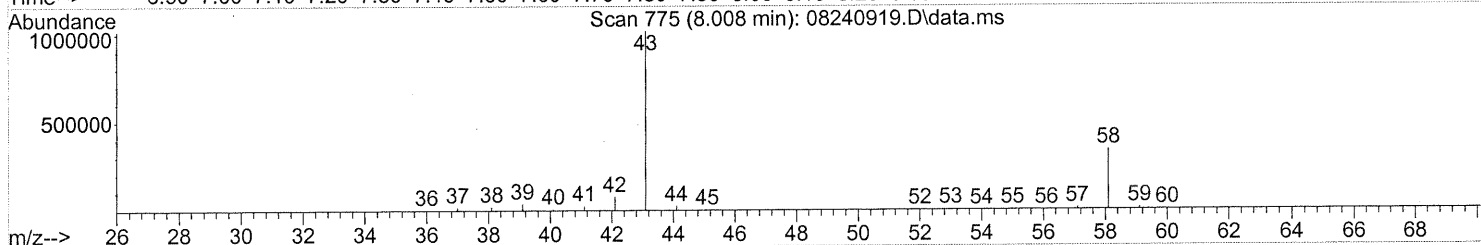
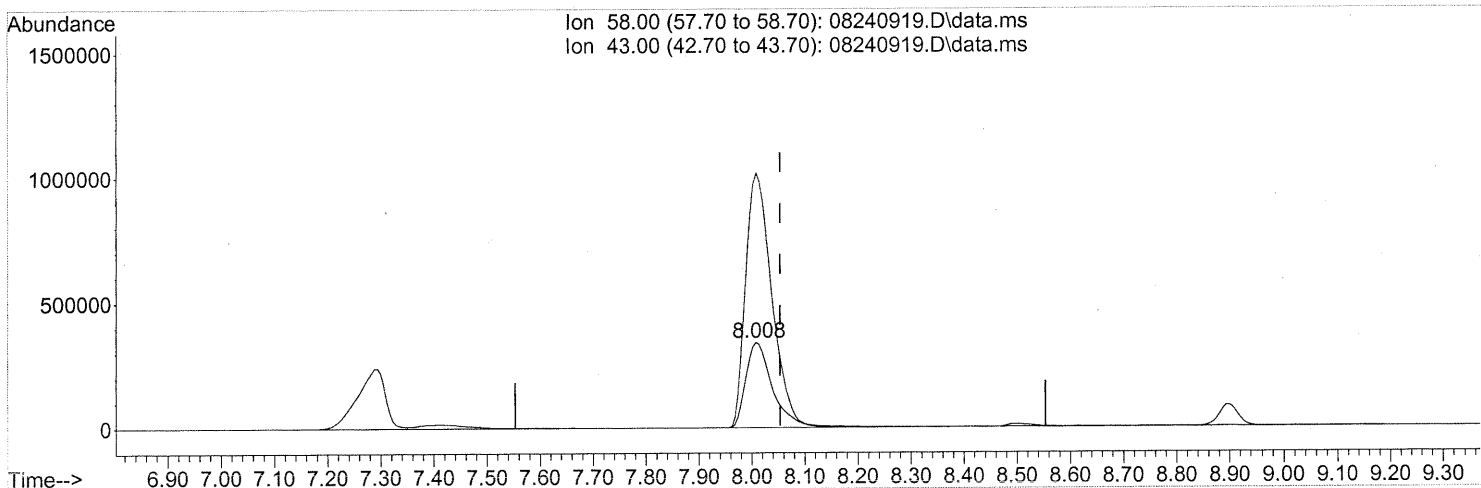
(12) Acrolein (T)
 7.791min (-0.017) 4.72ng
 response 58135

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	69.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

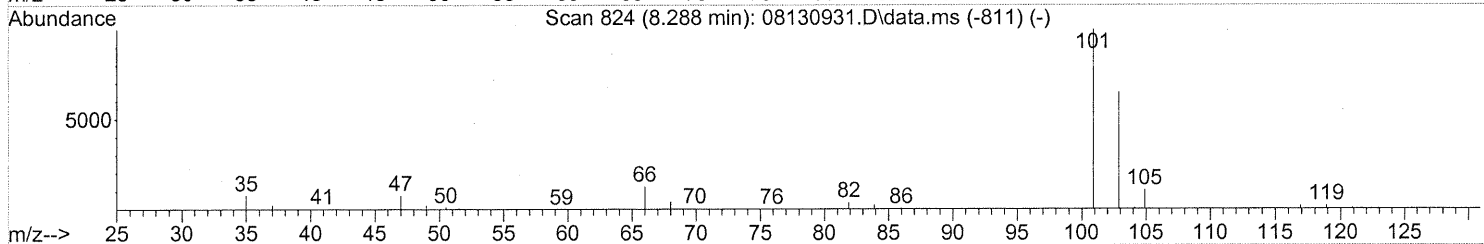
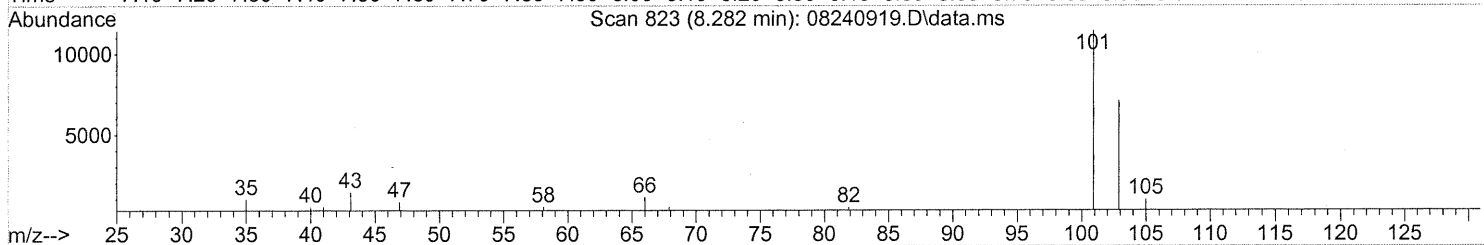
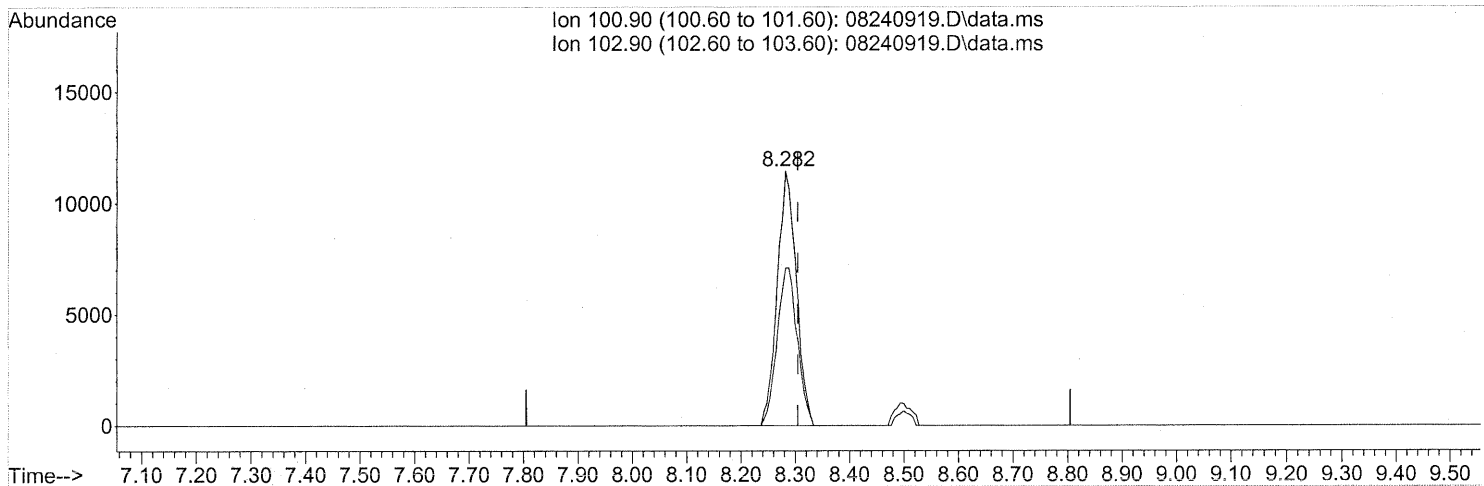
(13) Acetone (T)
 8.008min (-0.046) 61.70ng
 response 1184951

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	297.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 0.76ng

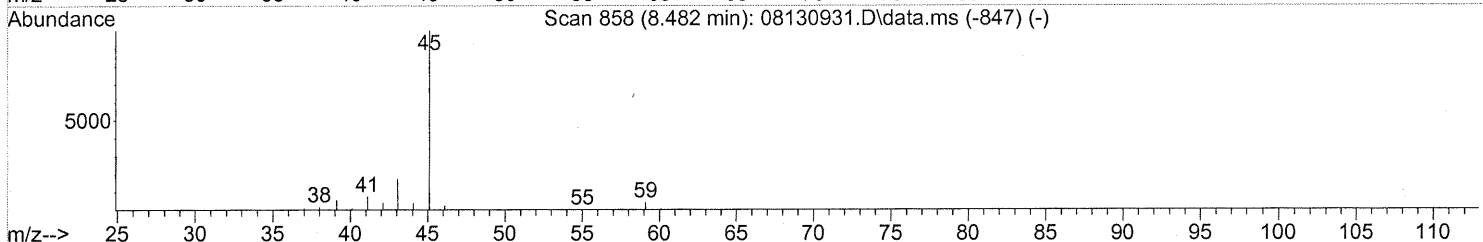
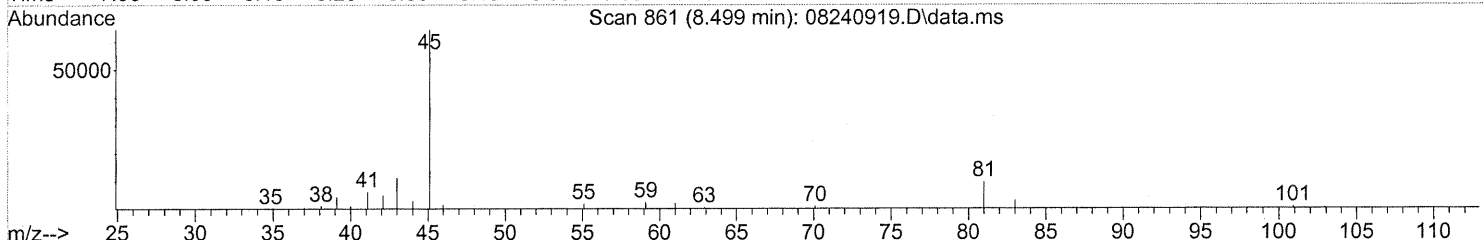
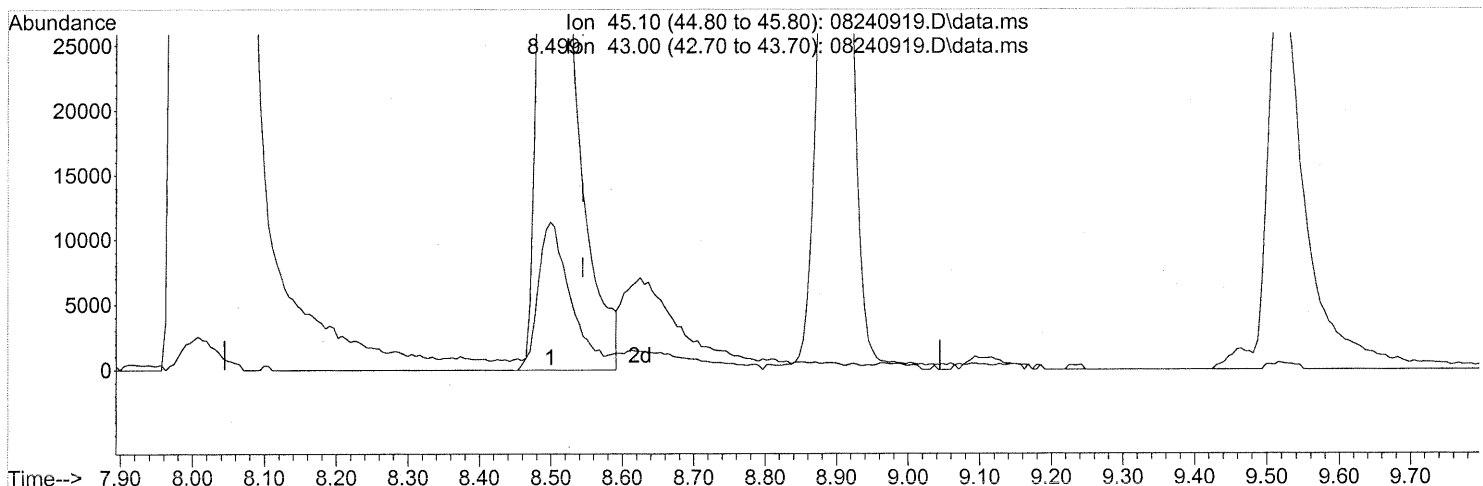
response 27904

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	65.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240919.D
Acq On : 24 Aug 2009 21:10
Operator : EM
Sample : P0902832-002 dup (1000ml)
Misc : Eng. H&E 101655
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08240919.D\data.ms

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

8.499min (-0.046) 3.66ng

response 192628

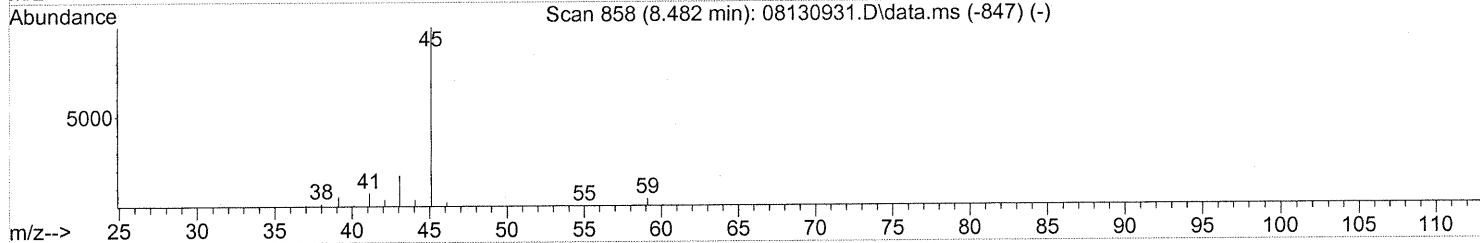
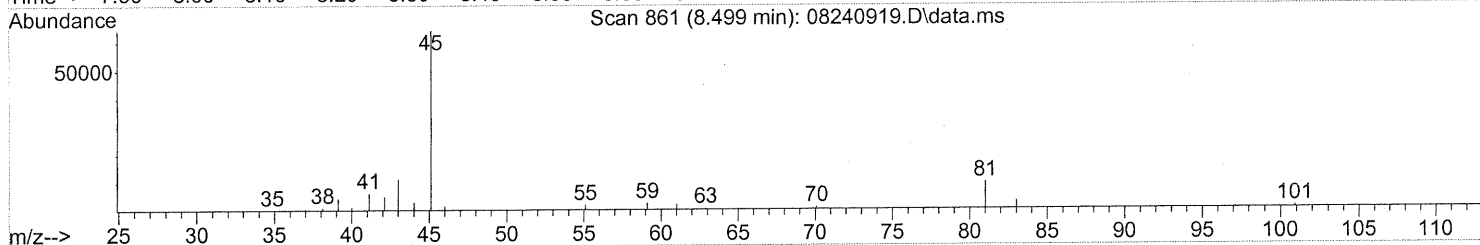
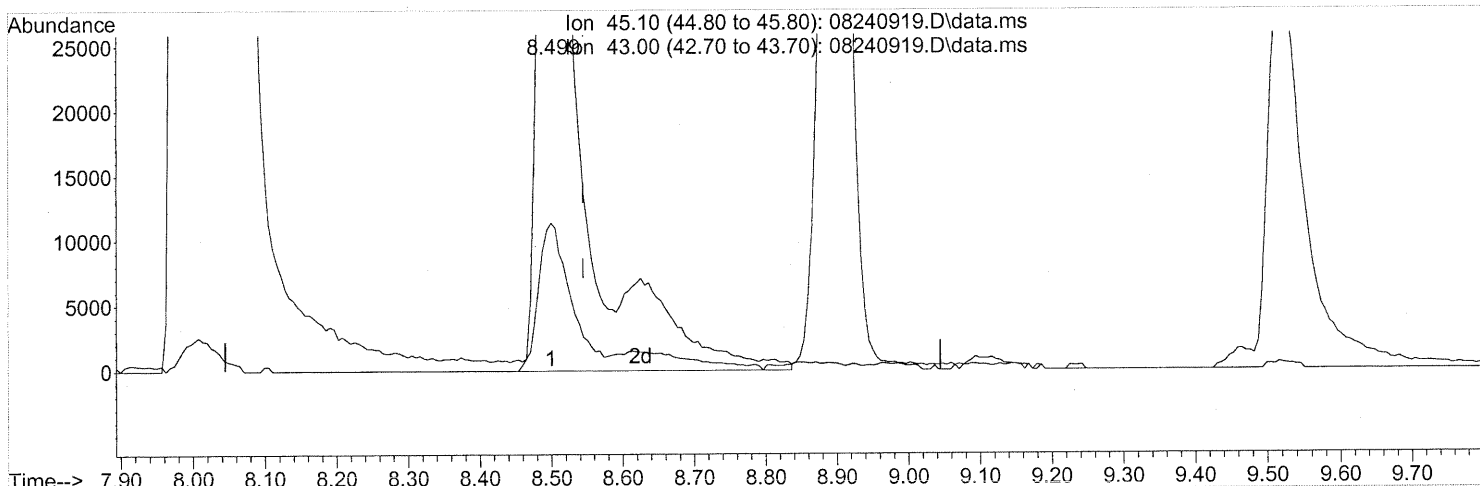
PT

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	24.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.499min (-0.046) 4.45ng m

response 233908

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	20.13
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC

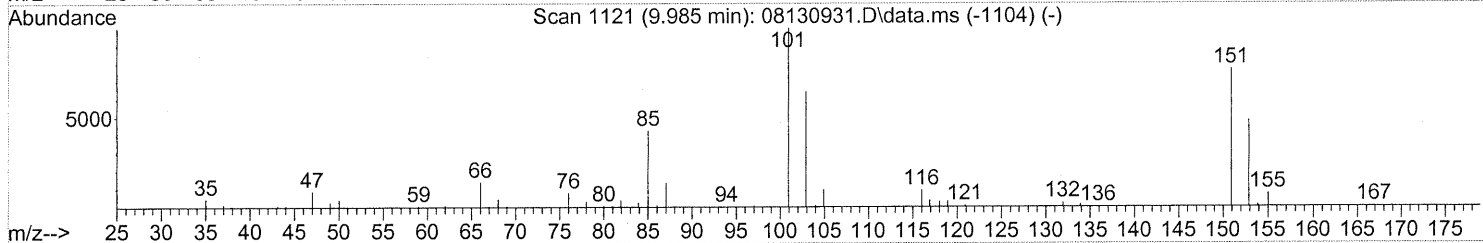
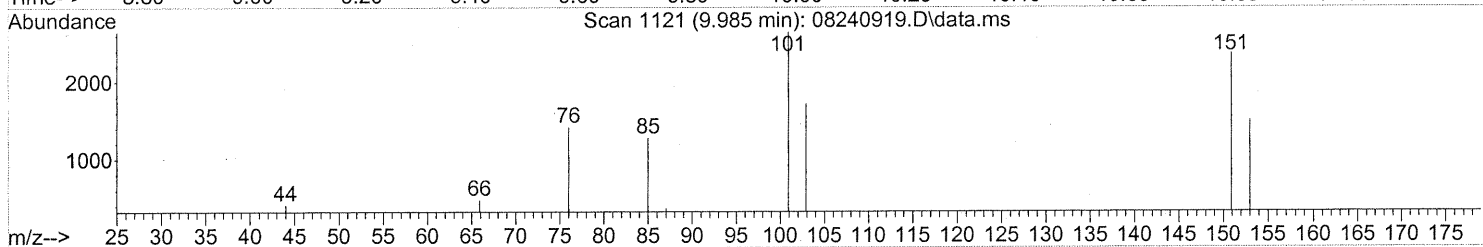
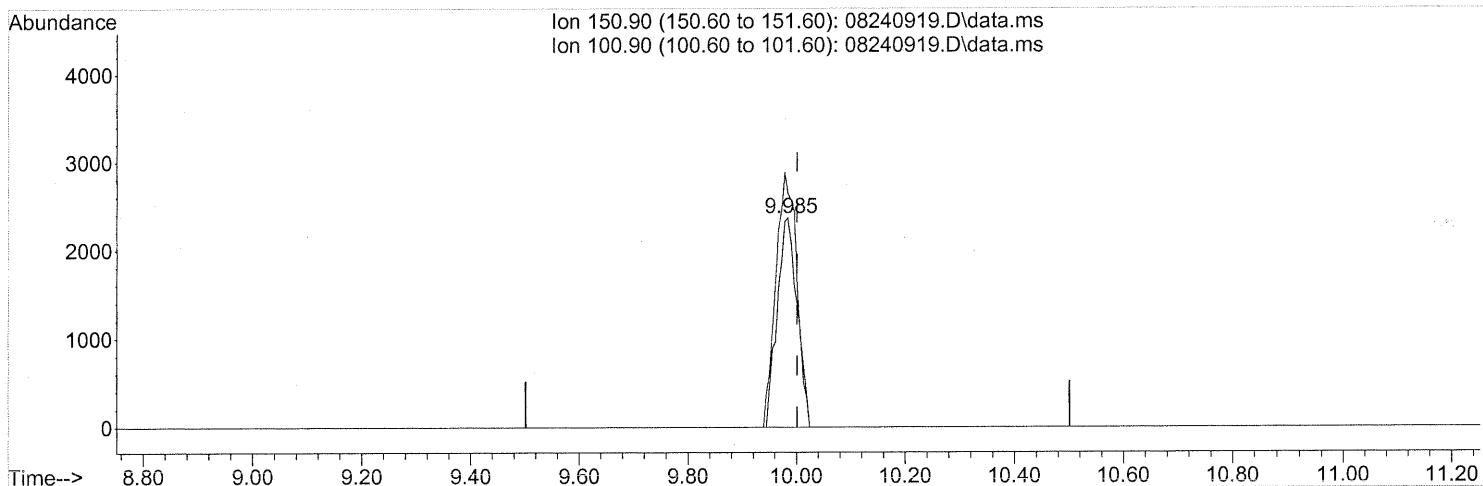
Em 8/28/09

AT 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.36ng

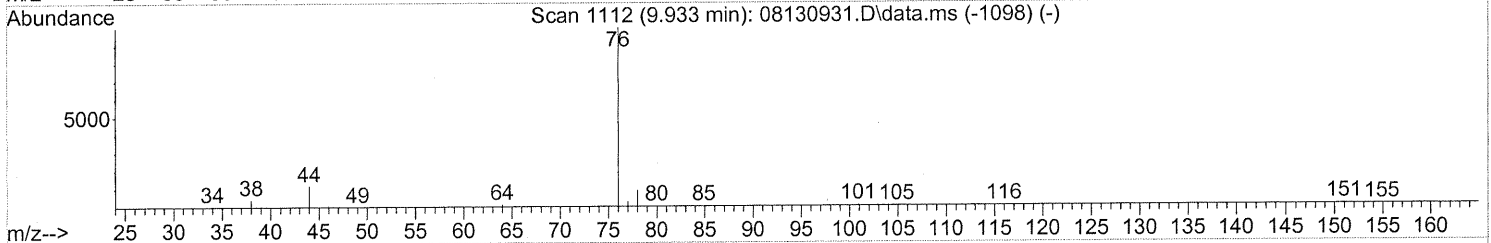
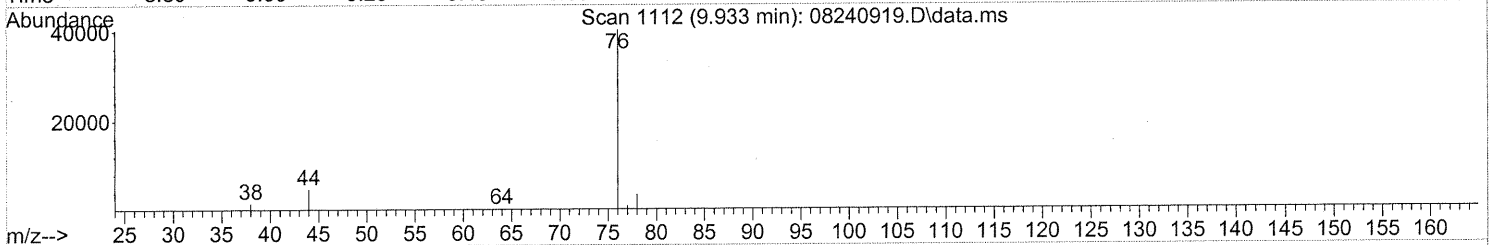
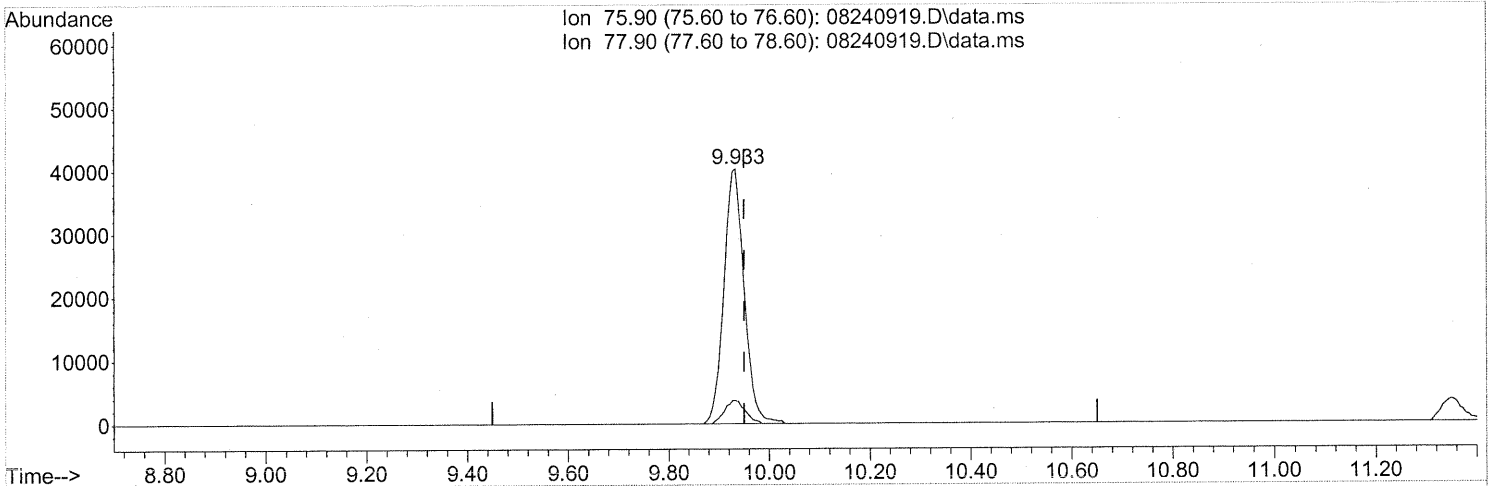
response 5961

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	129.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(22) Carbon Disulfide (T)

9.933min (-0.017) 1.32ng

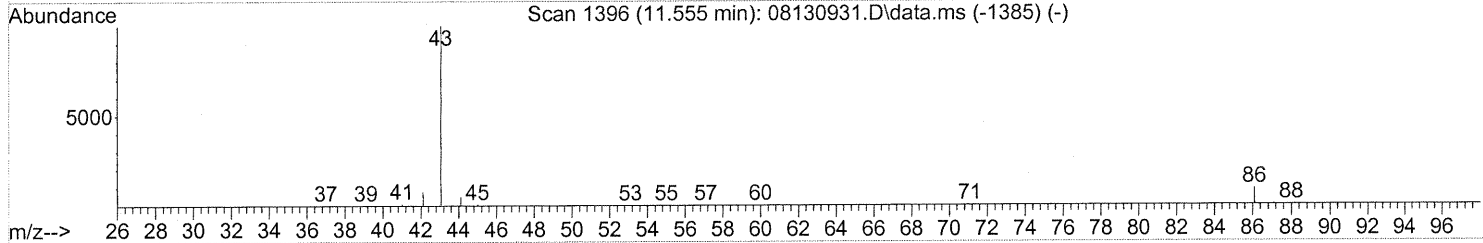
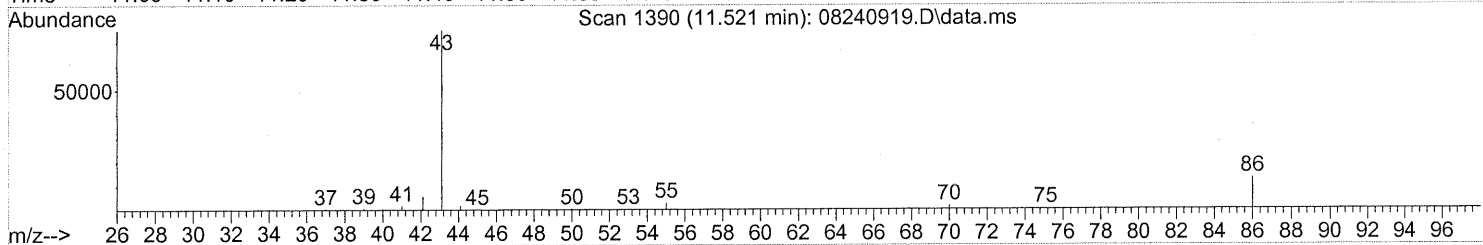
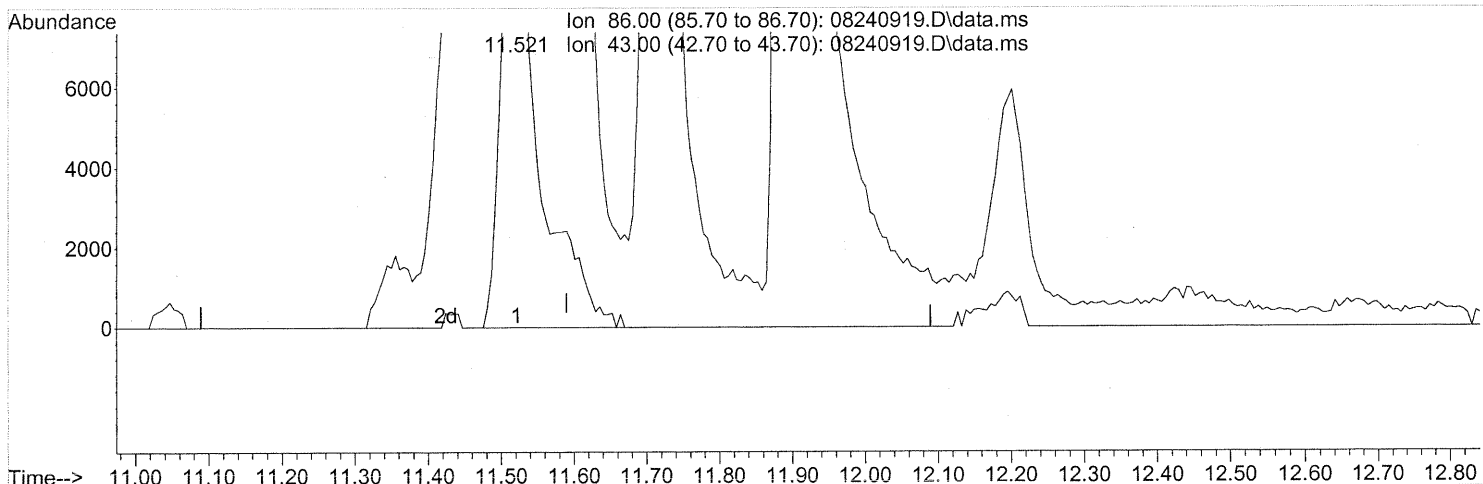
response 111951

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	9.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.521min (-0.069) 10.10ng
 response 41994

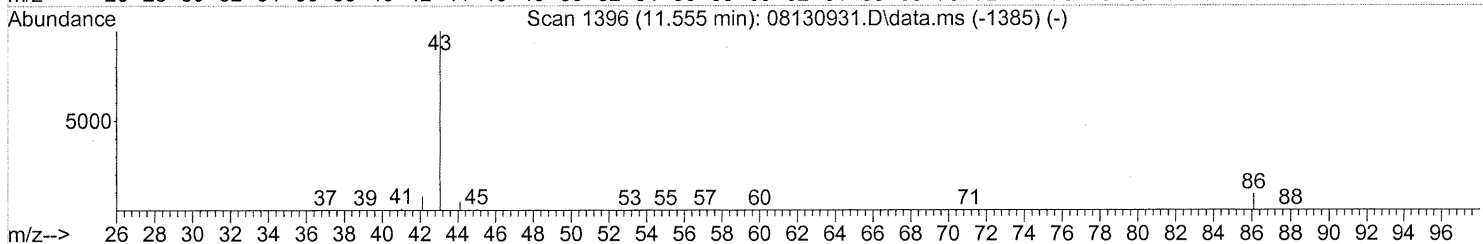
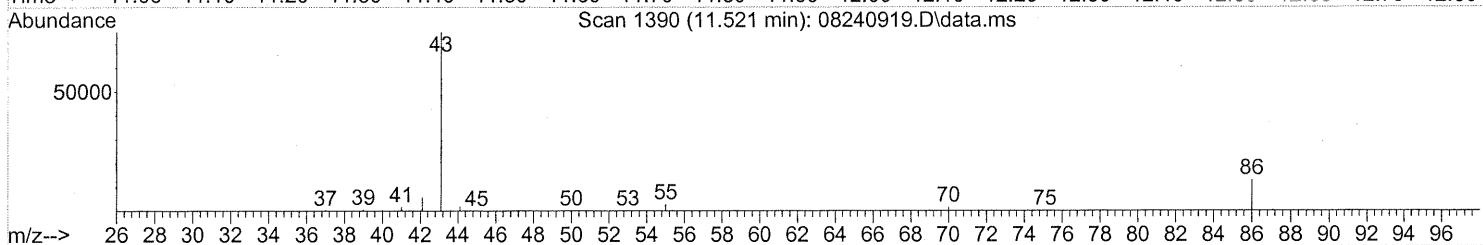
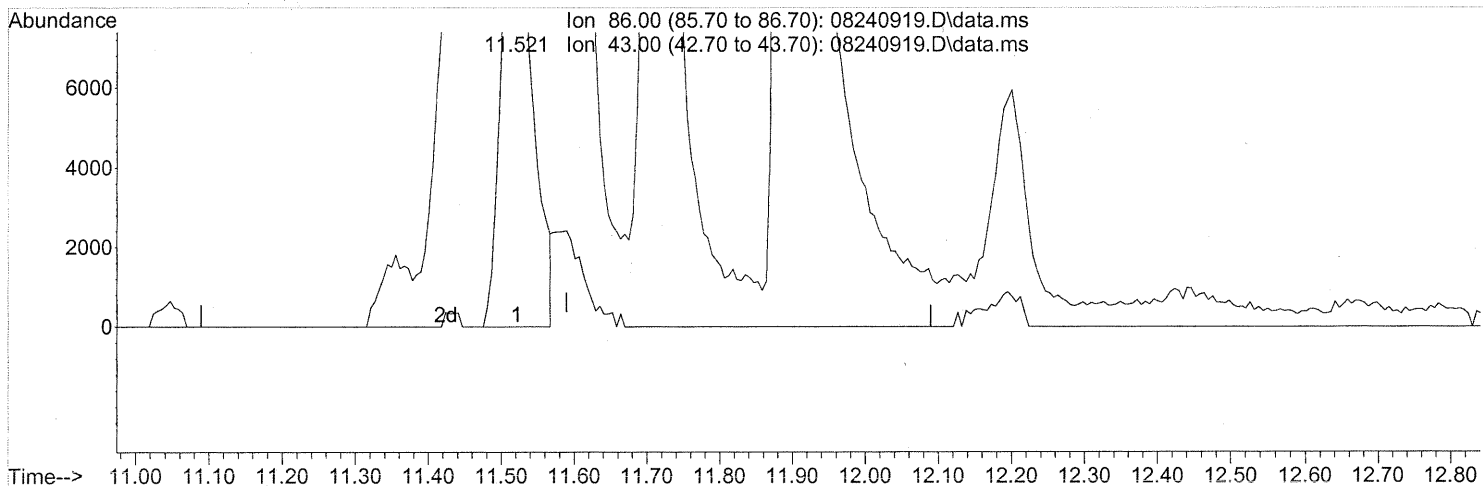
Ion	Exp%	Act%
86.00	100	100
43.00	992.90	530.52#
0.00	0.00	0.00
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(26) Vinyl Acetate (T)
 11.521min (-0.069) 8.41ng m
 response 34962

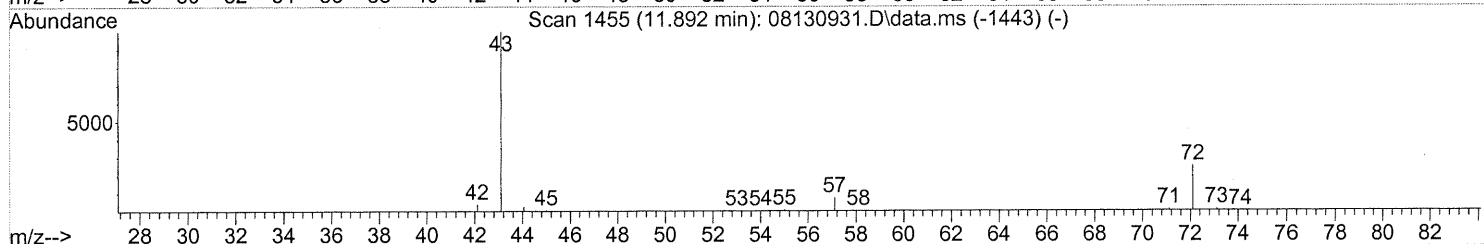
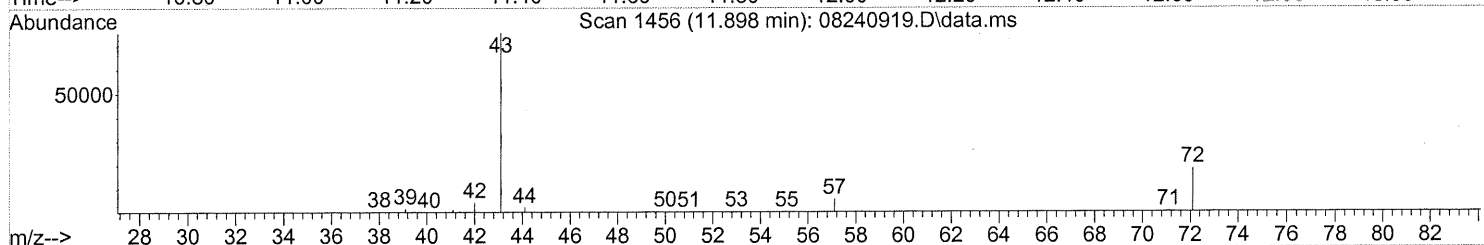
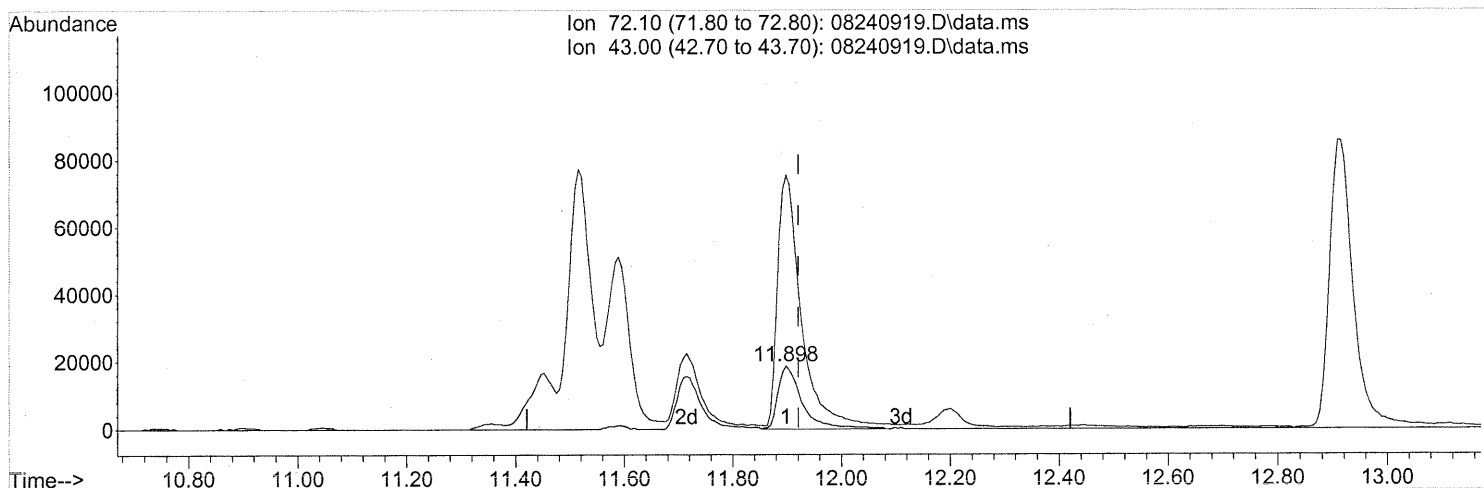
Ion	Exp%	Act%
86.00	100	100
43.00	992.90	637.23#
0.00	0.00	0.00
0.00	0.00	0.00

SH → IC
em 8/28/09
Q 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

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

11.898min (-0.023) 4.22ng

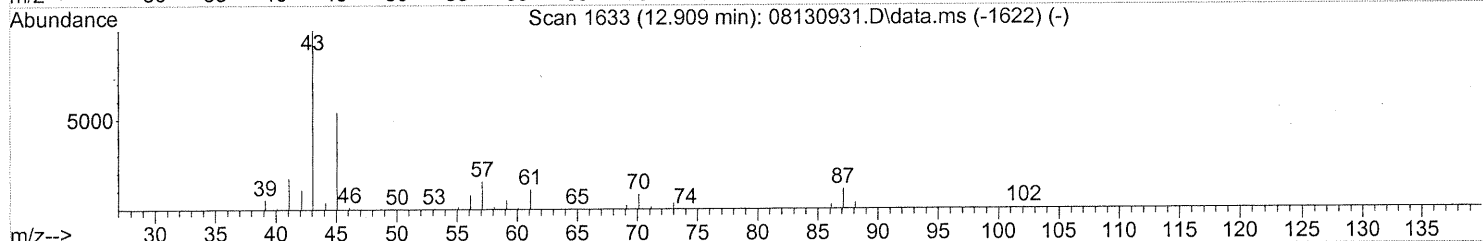
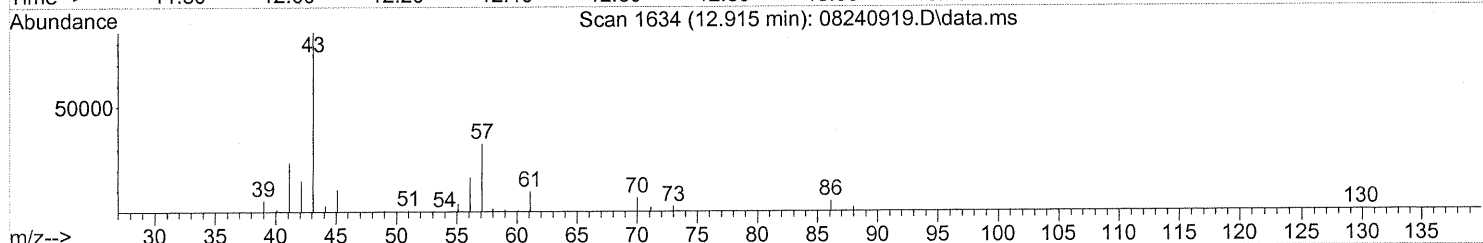
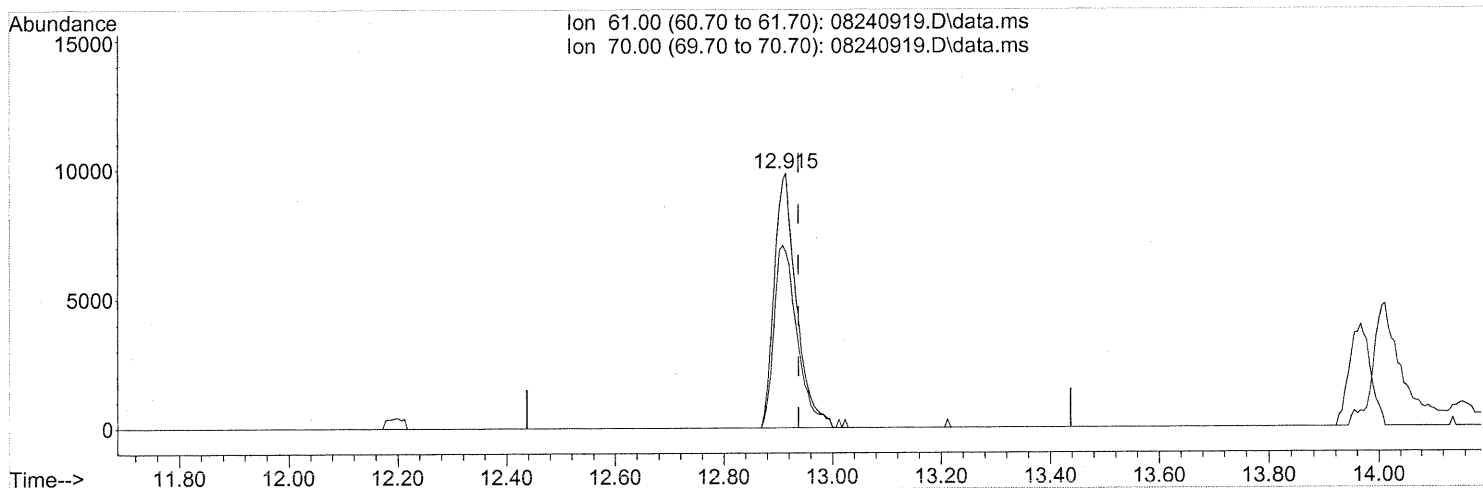
response 56547

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	387.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(30) Ethyl Acetate (T)

12.915min (-0.023) 3.22ng

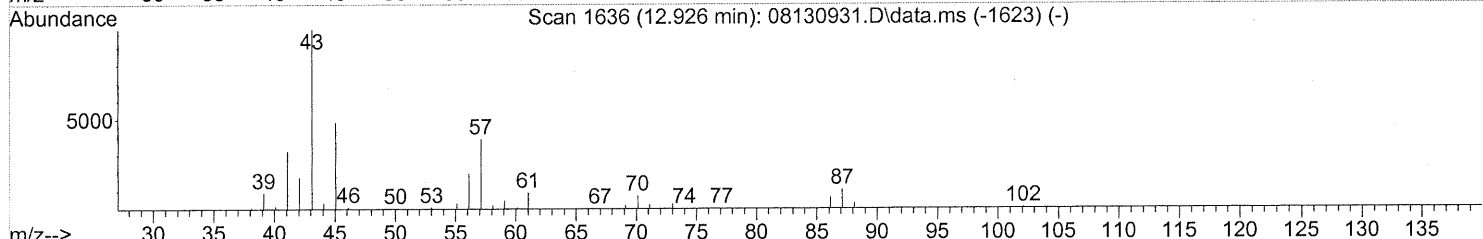
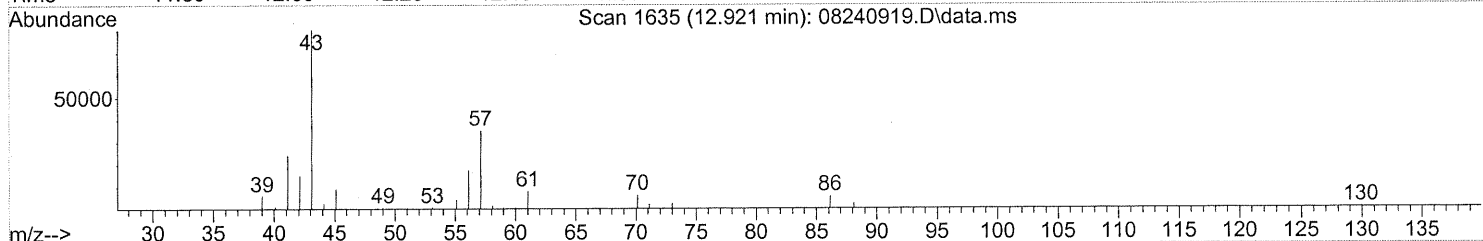
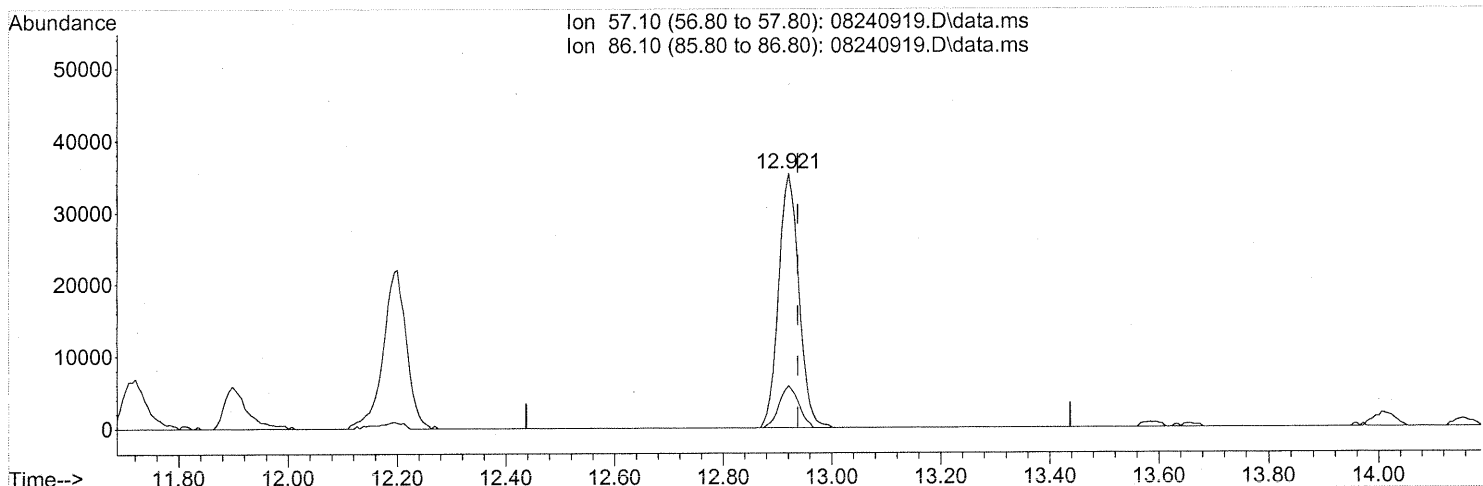
response 27915

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	75.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

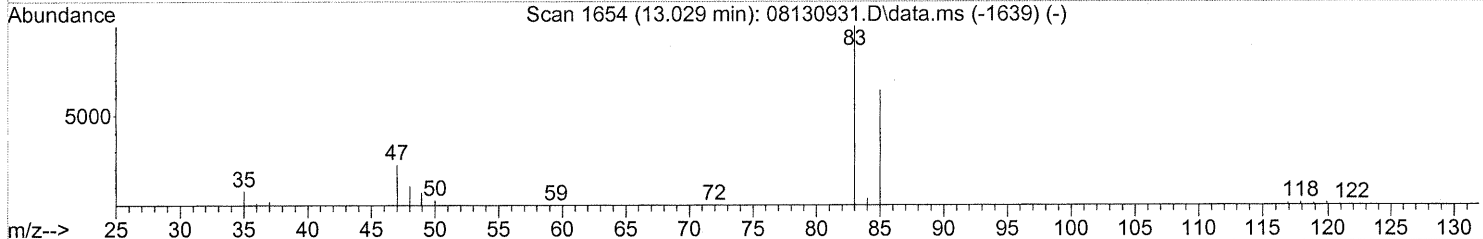
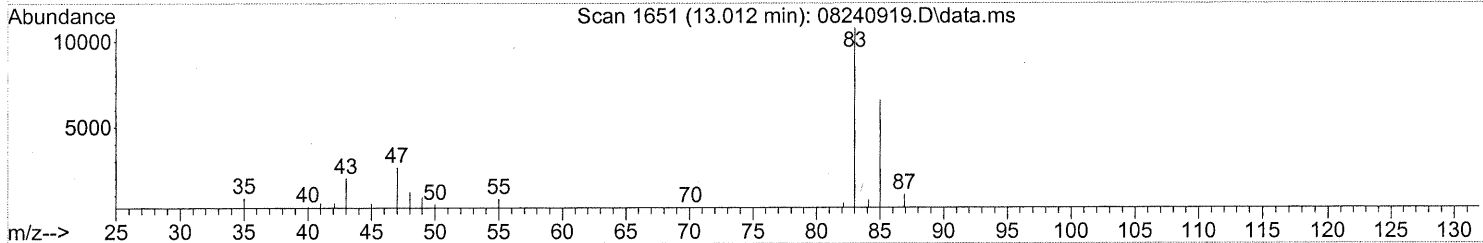
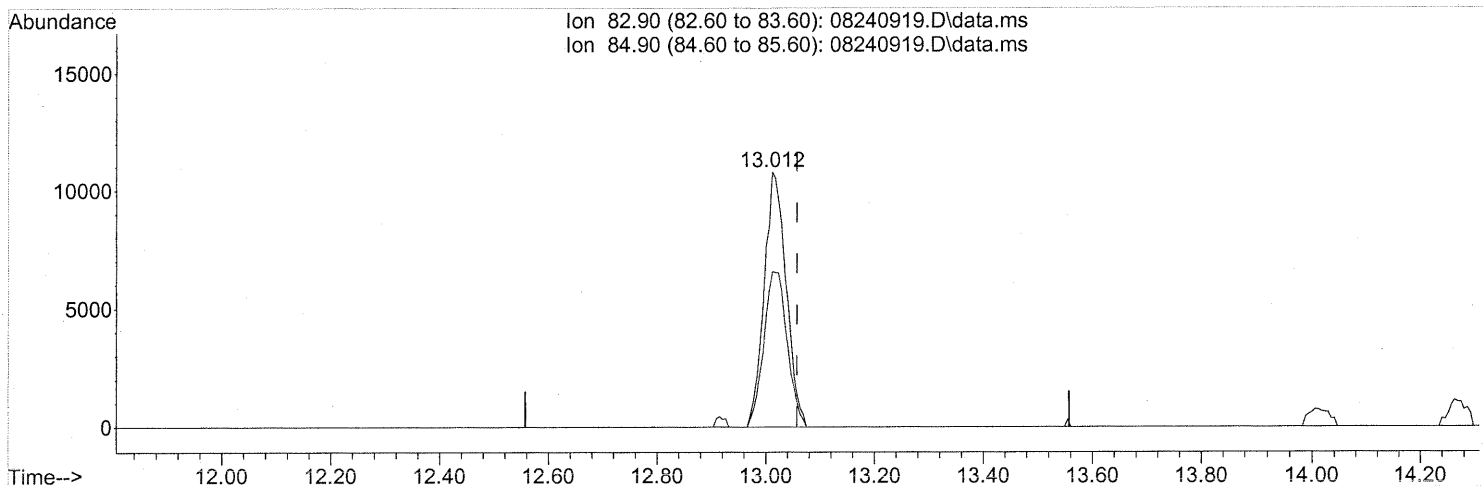
(31) n-Hexane (T)
 12.921min (-0.017) 2.14ng
 response 90444

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(32) Chloroform (T)

13.012min (-0.046) 0.86ng

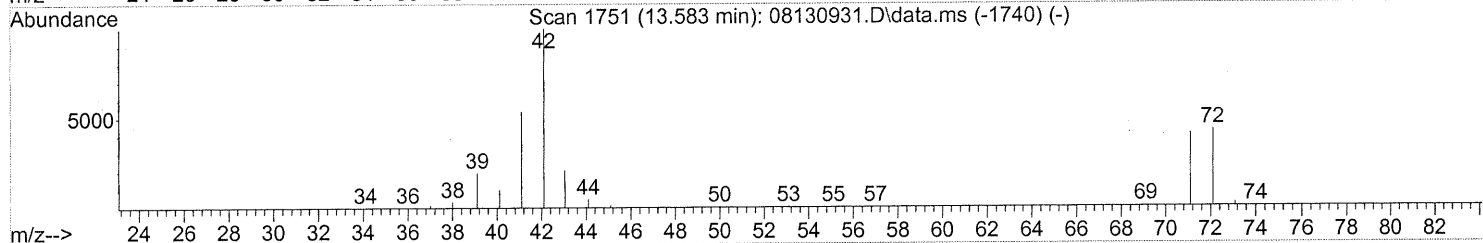
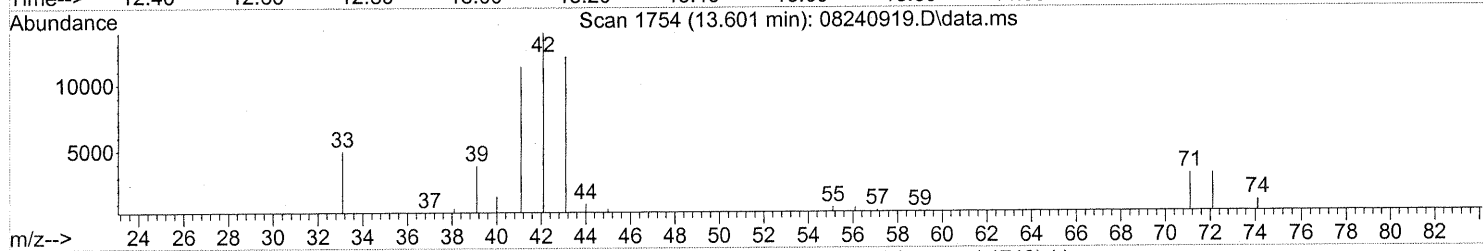
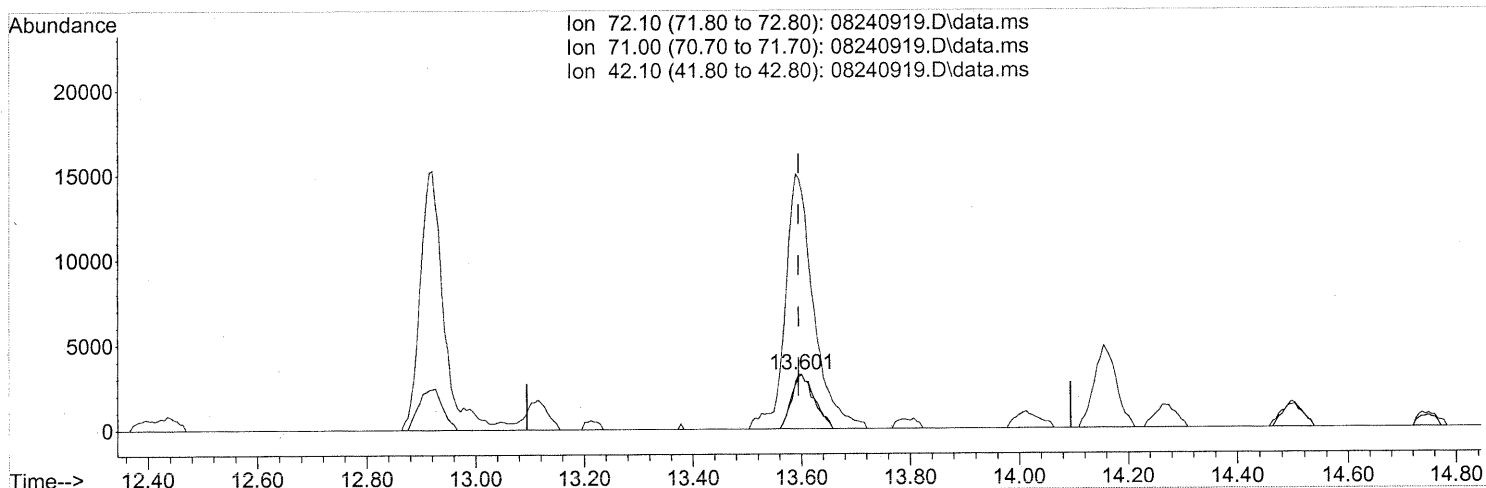
response 30367

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.601min (+0.006) 0.67ng

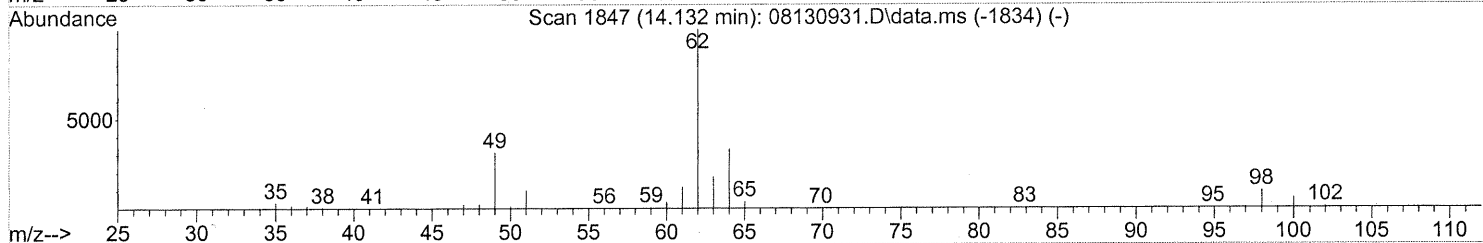
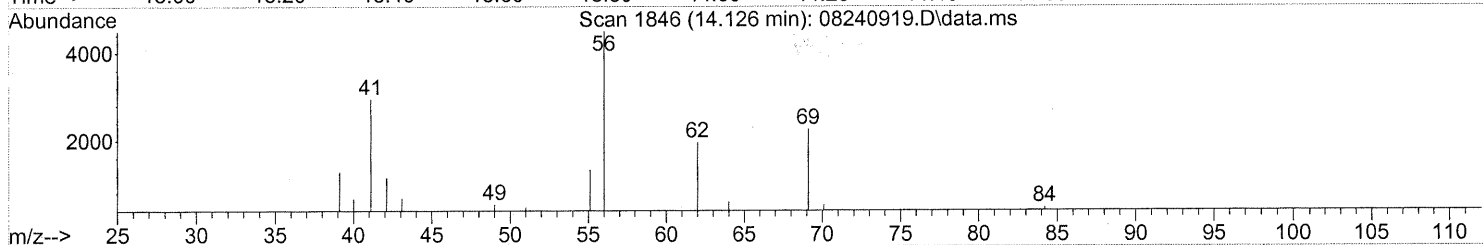
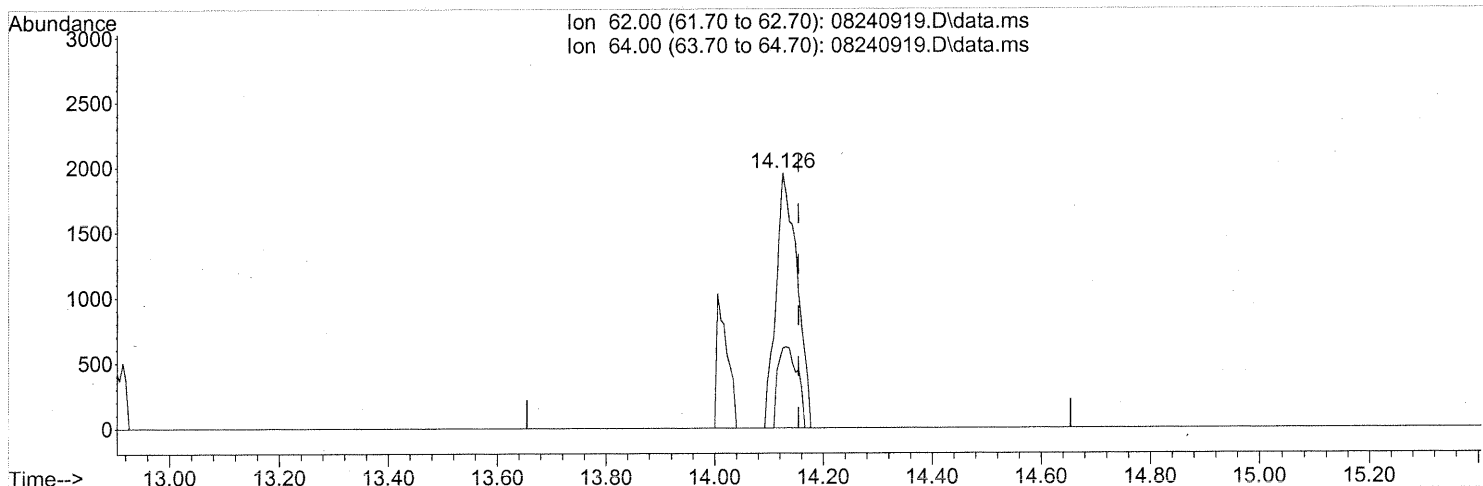
response 9270

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	98.54
42.10	206.50	580.29#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(36) 1,2-Dichloroethane (T)

14.126min (-0.028) 0.19ng

response 5241

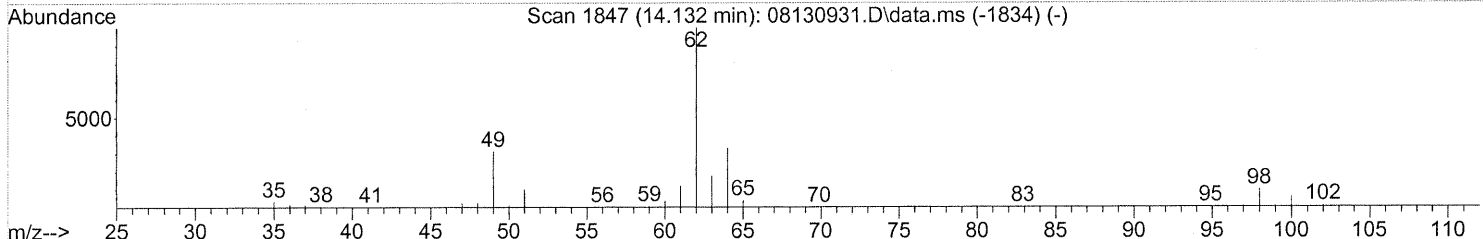
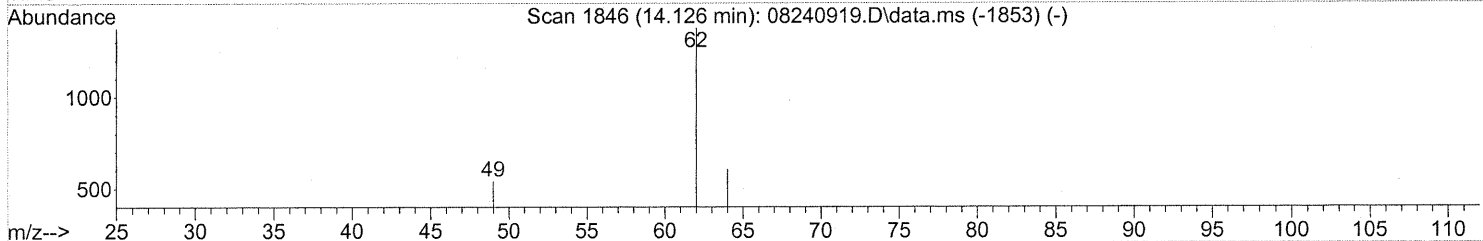
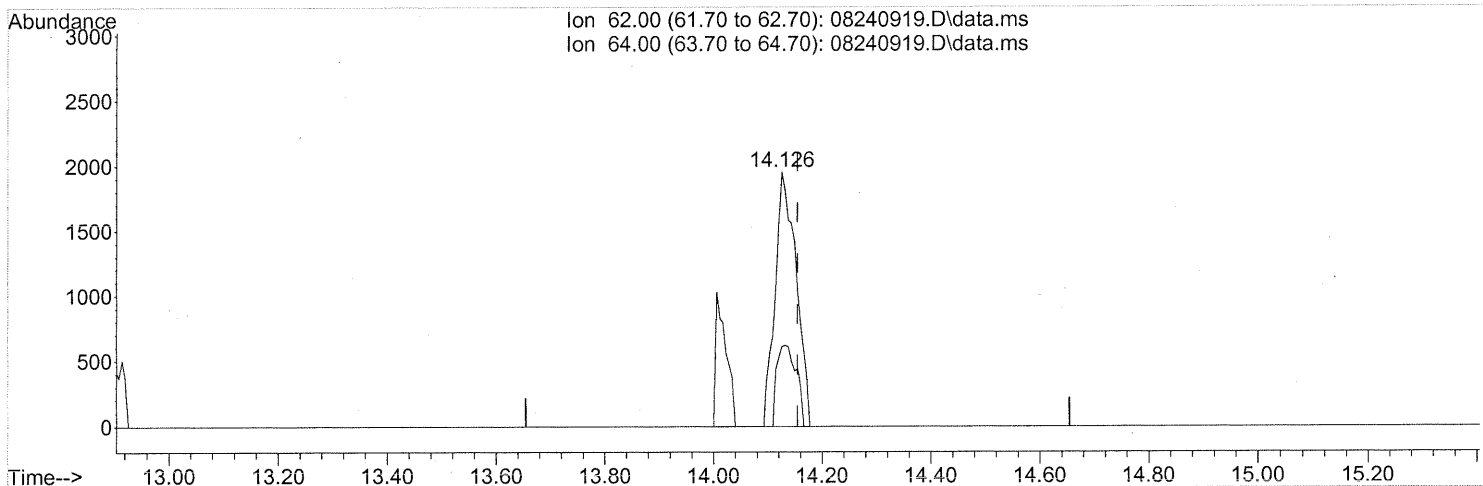
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	29.14
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(36) 1,2-Dichloroethane (T)

14.126min (-0.028) 0.19ng

response 5241

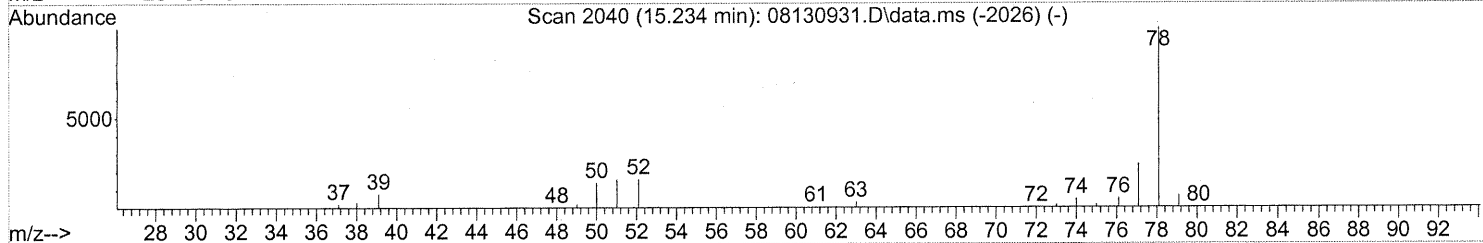
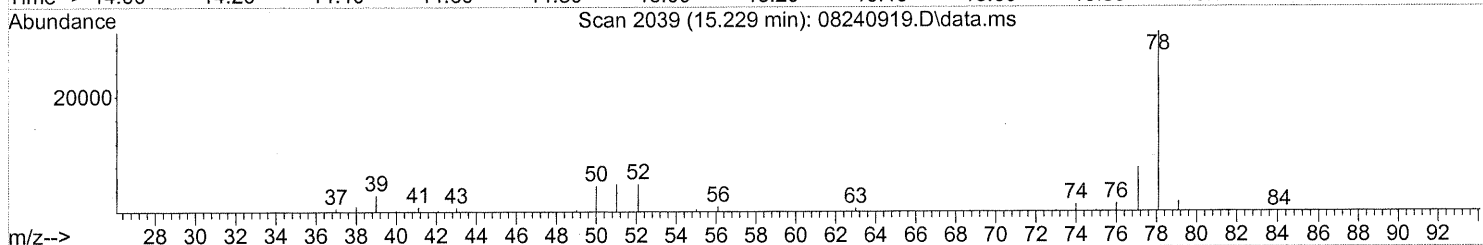
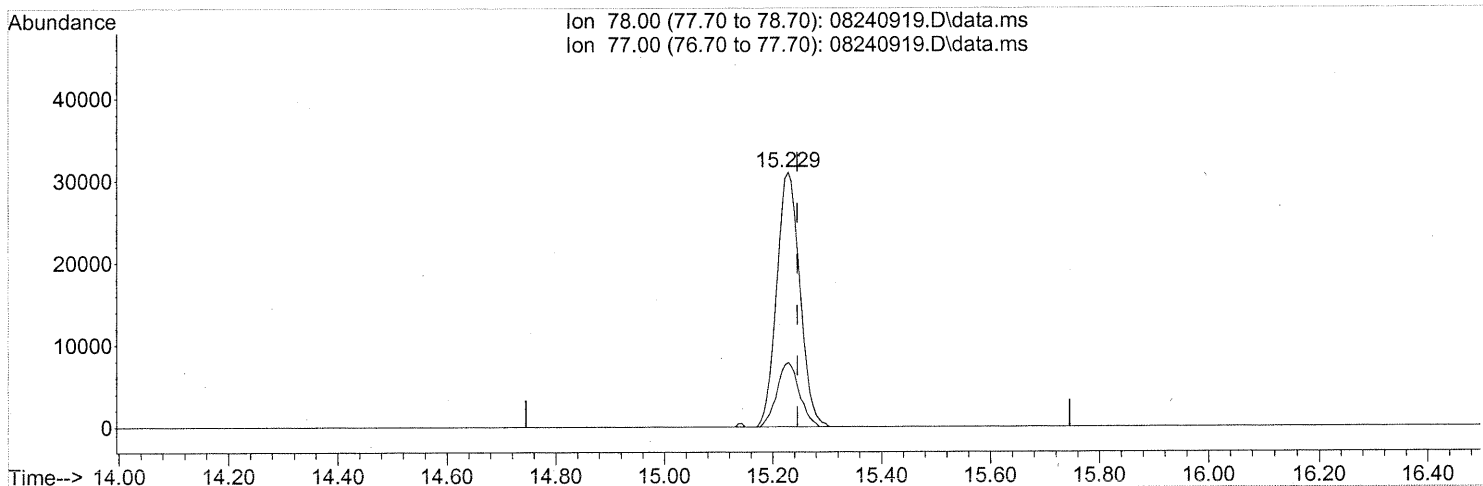
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	29.14
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
Cam 8/28/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(41) Benzene (T)

15.229min (-0.017) 0.98ng

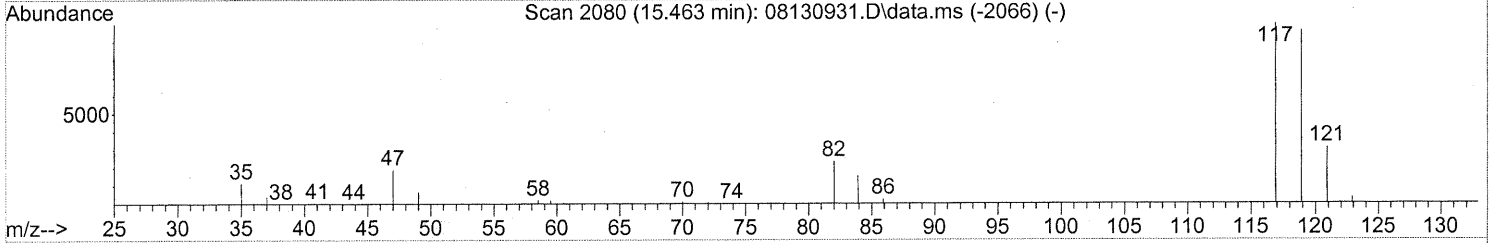
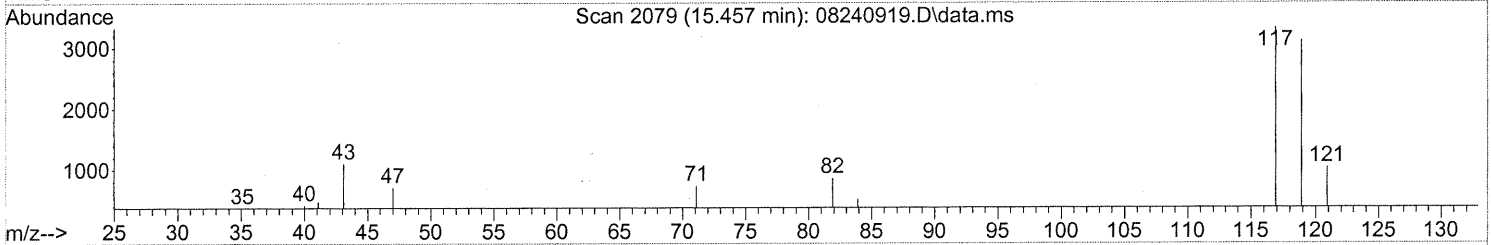
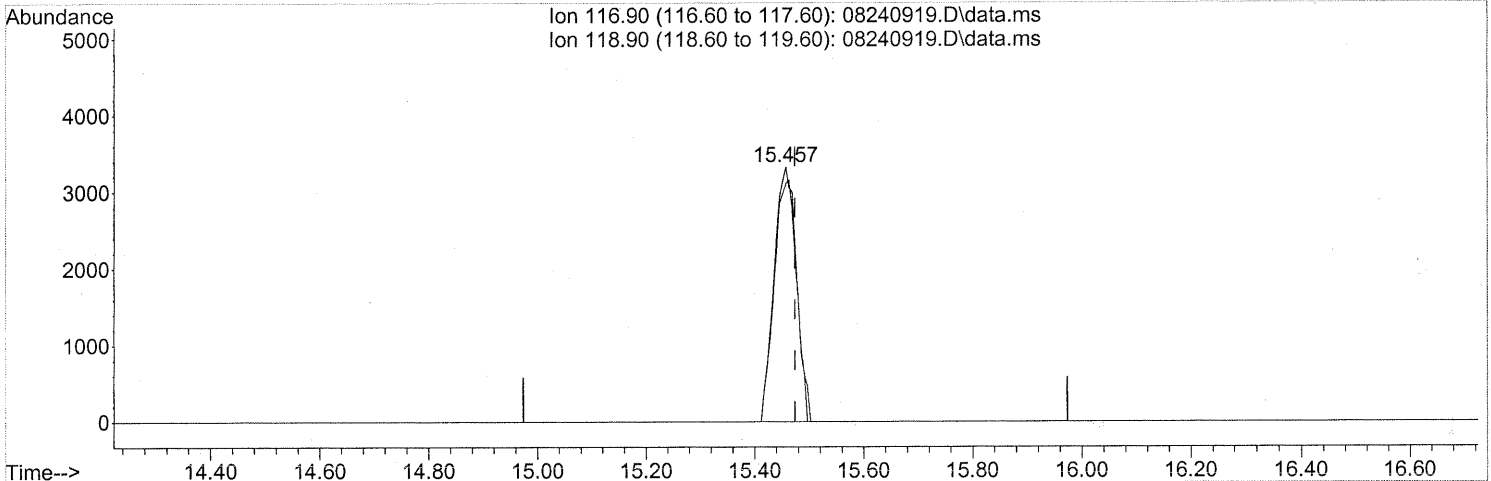
response 91384

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.36ng

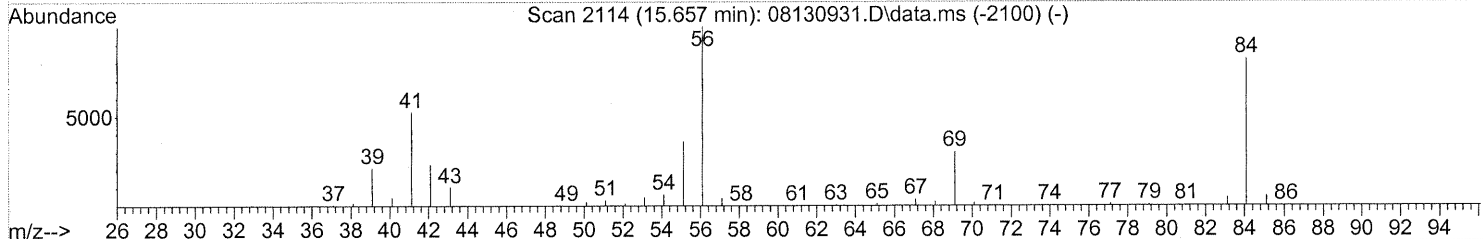
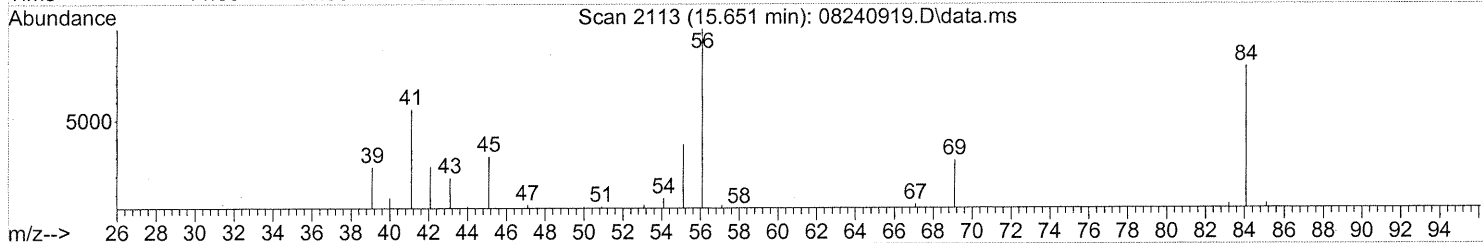
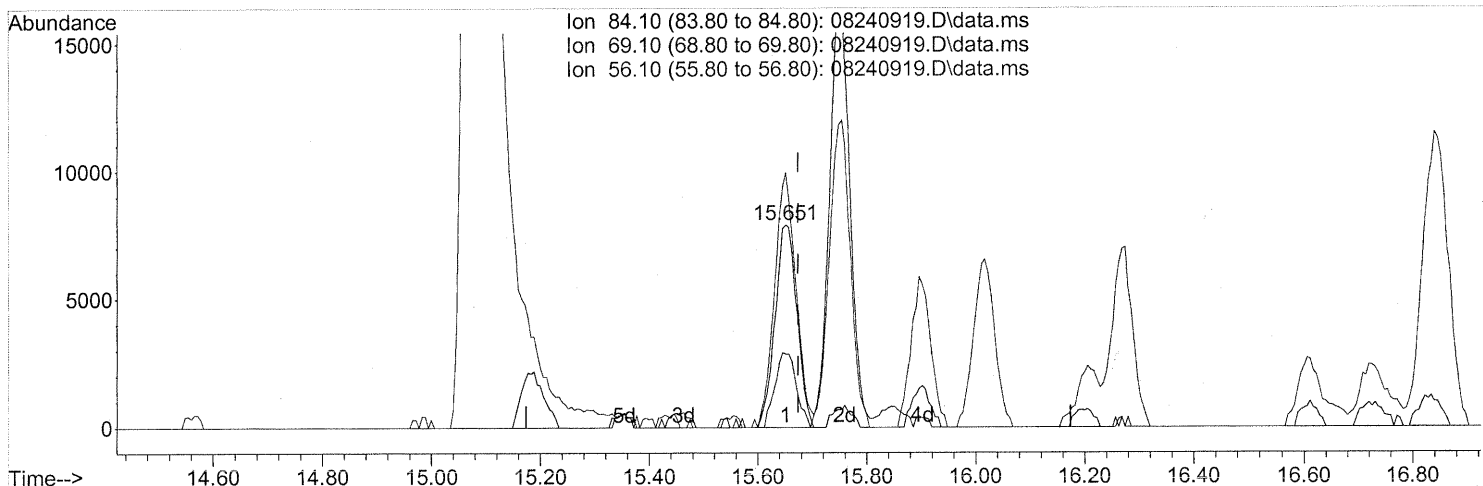
response 9348

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	97.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

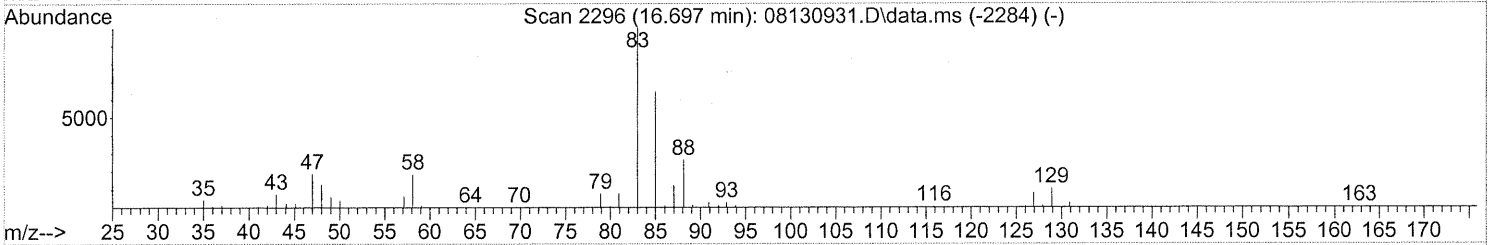
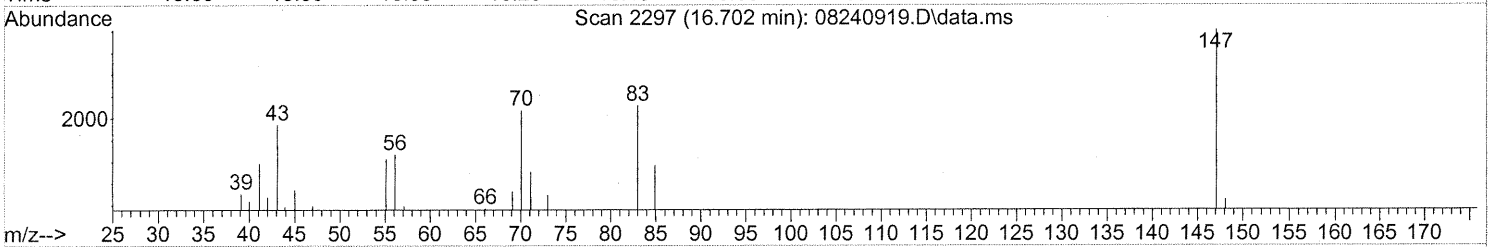
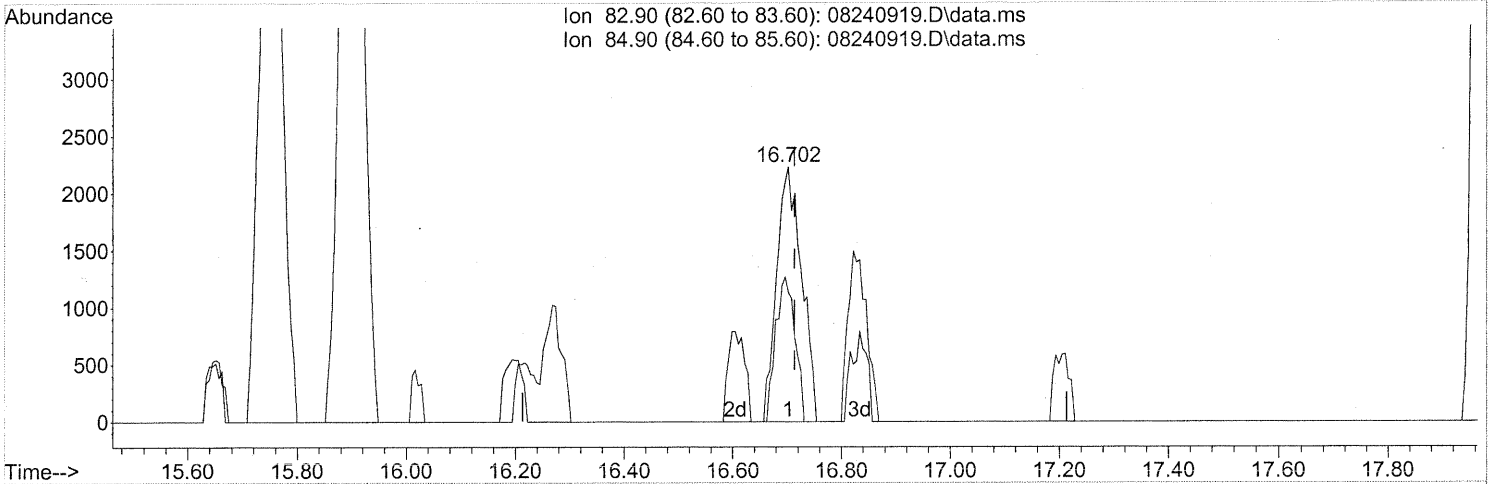
(43) Cyclohexane (T)
 15.651min (-0.023) 0.61ng
 response 21988

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	36.14
56.10	107.30	124.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.702min (-0.011) 0.26ng

response 7073

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	43.73#
0.00	0.00	0.00
0.00	0.00	0.00

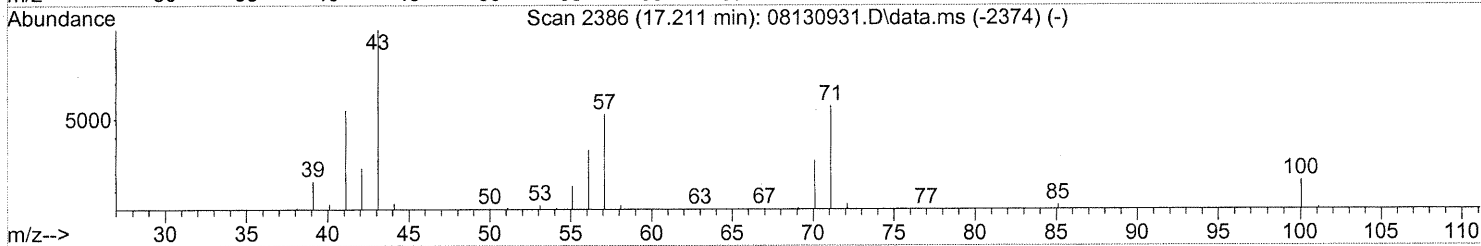
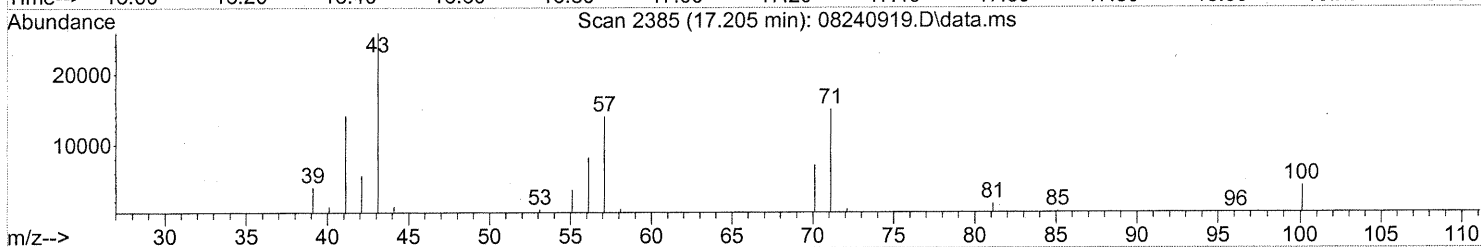
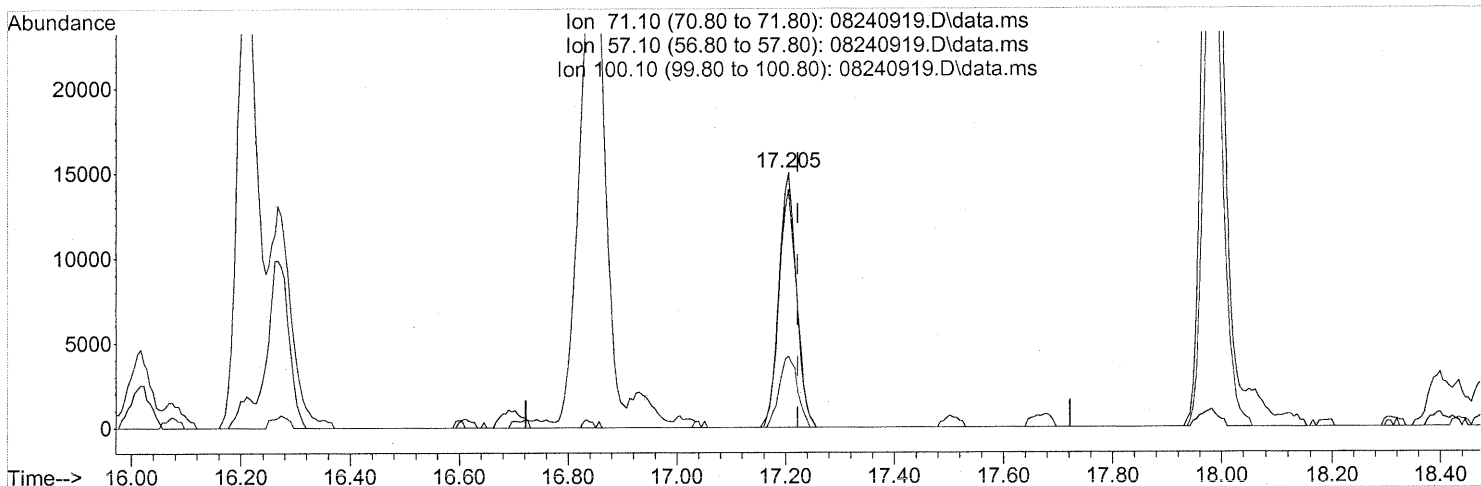
FP em 8/28/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

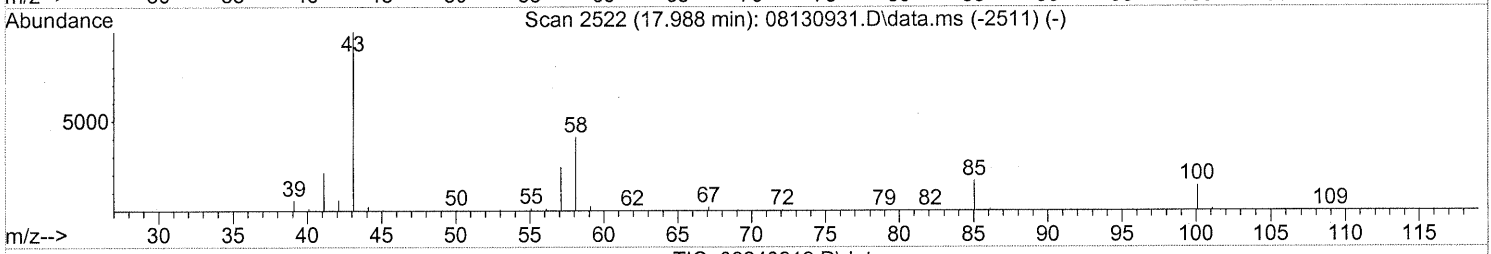
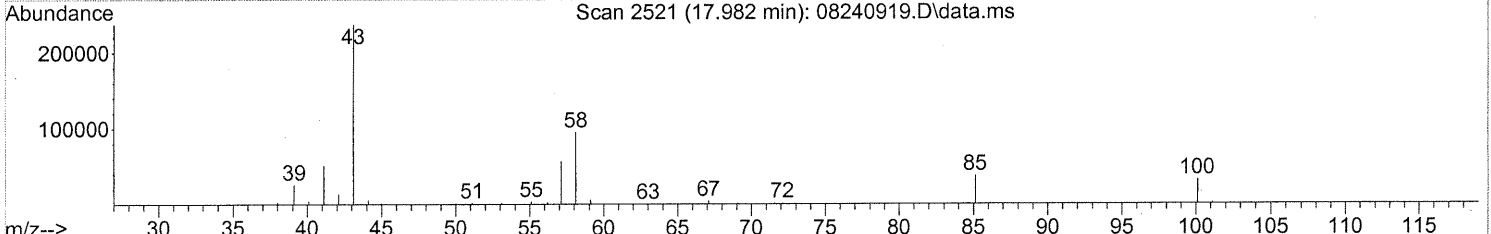
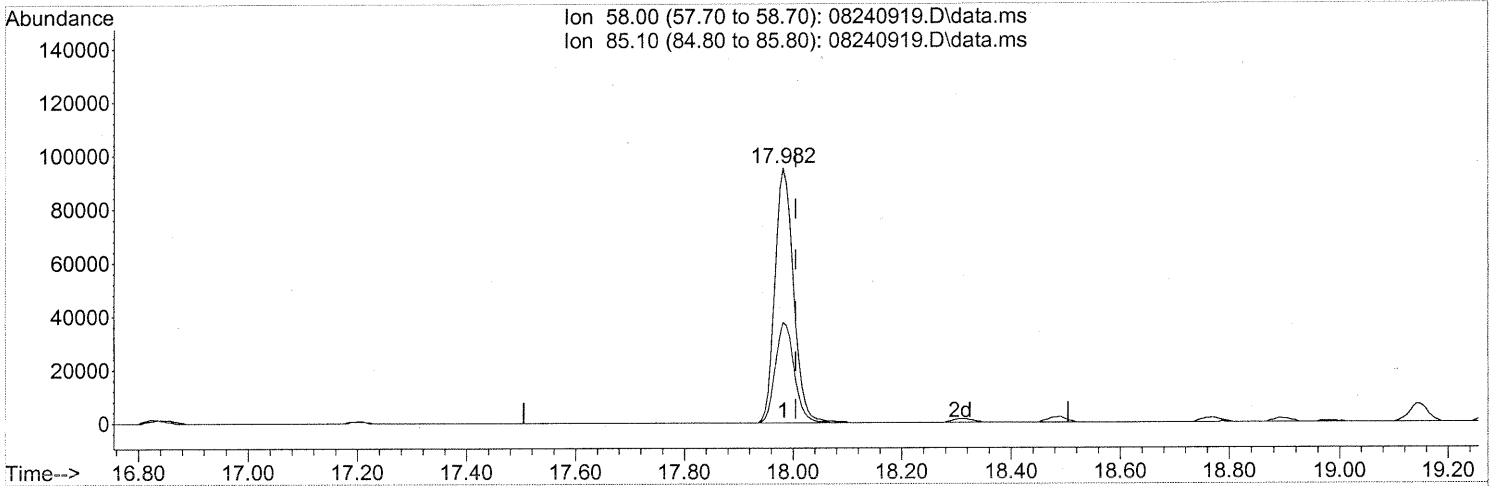
(51) n-Heptane (T)
 17.205min (-0.017) 1.34ng
 response 33536

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	93.43
100.10	30.70	28.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

17.982min (-0.023) 11.16ng

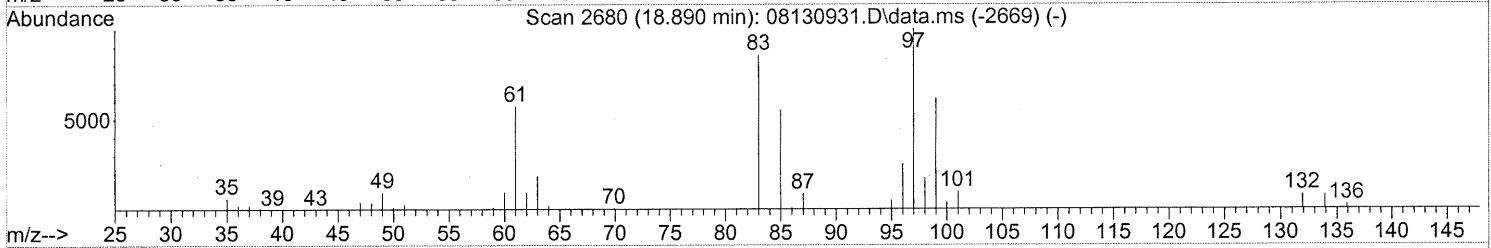
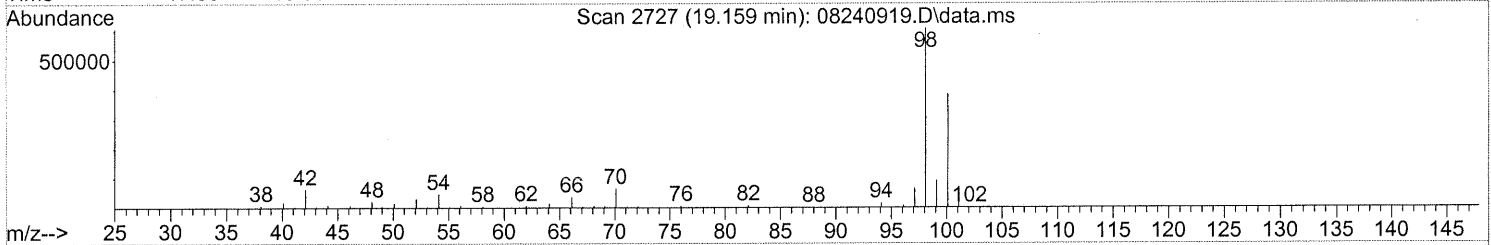
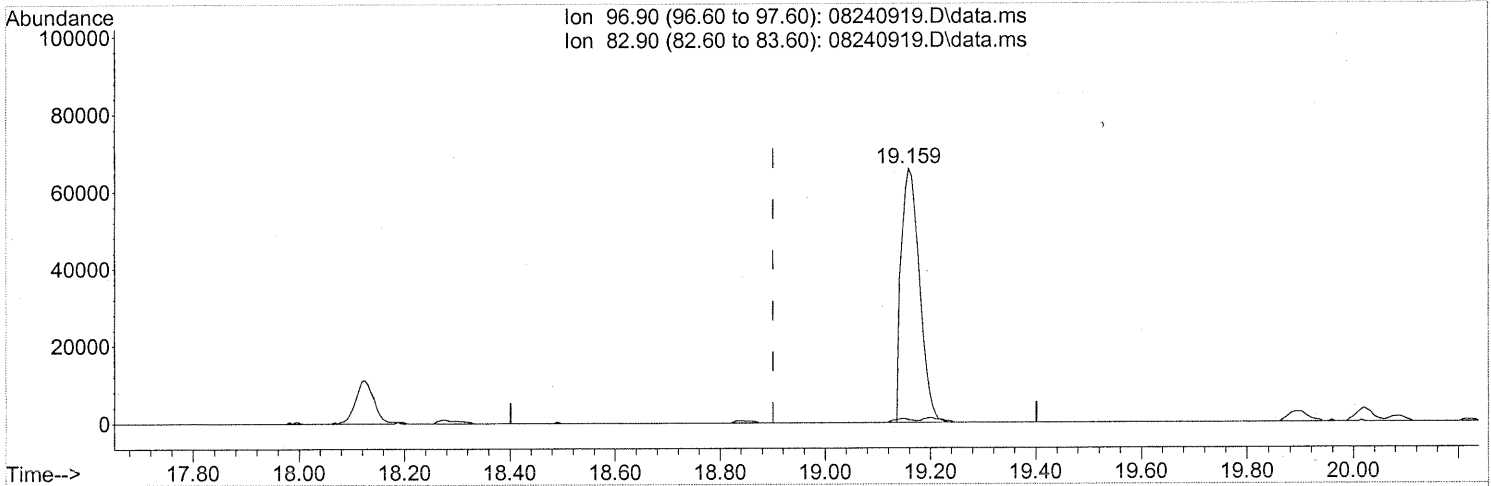
response 225982

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	39.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
Data File : 08240919.D
Acq On : 24 Aug 2009 21:10
Operator : EM
Sample : P0902832-002 dup (1000ml)
Misc : Eng. H&E 101655
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08240919.D\data.ms

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

19.159min (+0.257) 7.86ng

response 157456

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.34#
0.00	0.00	0.00
0.00	0.00	0.00

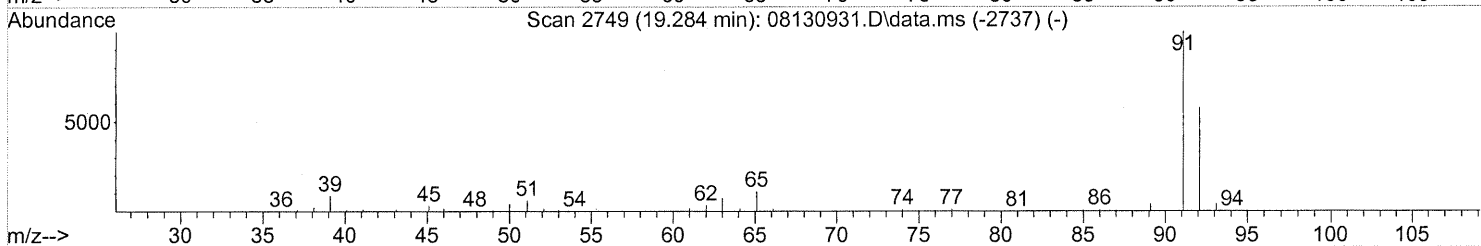
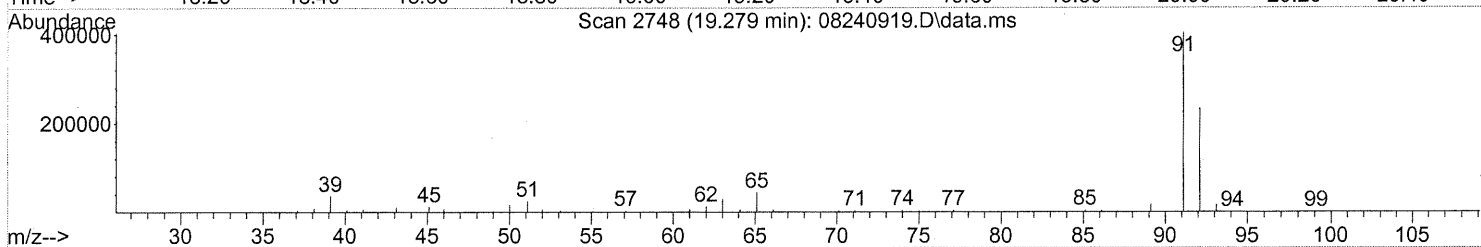
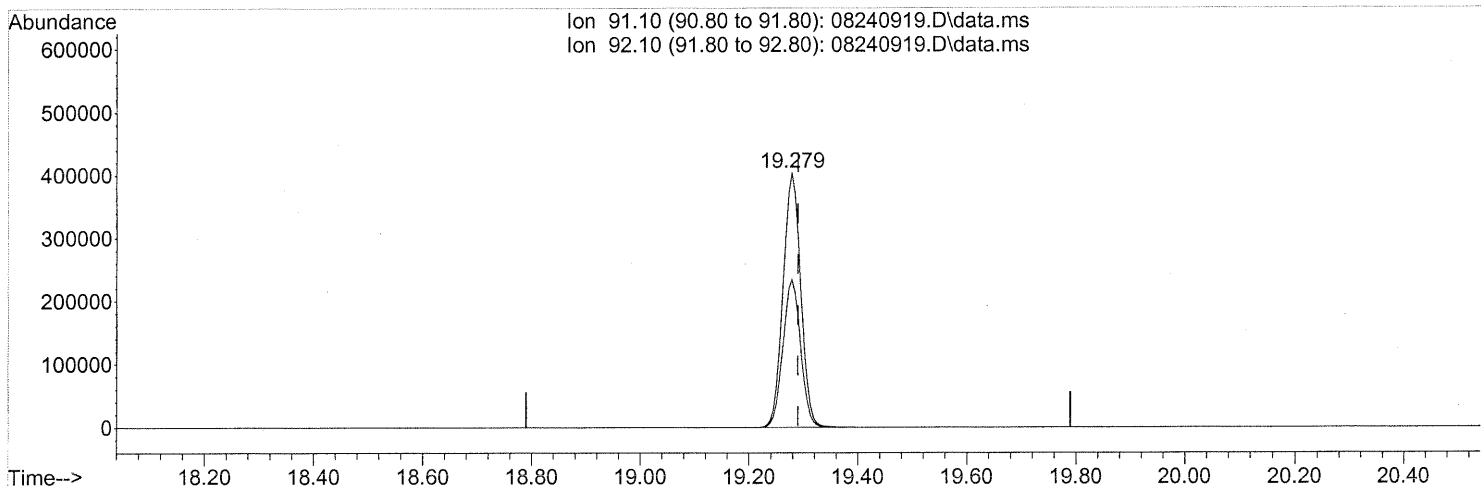
FP Em 8/28/09

@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 9.60ng

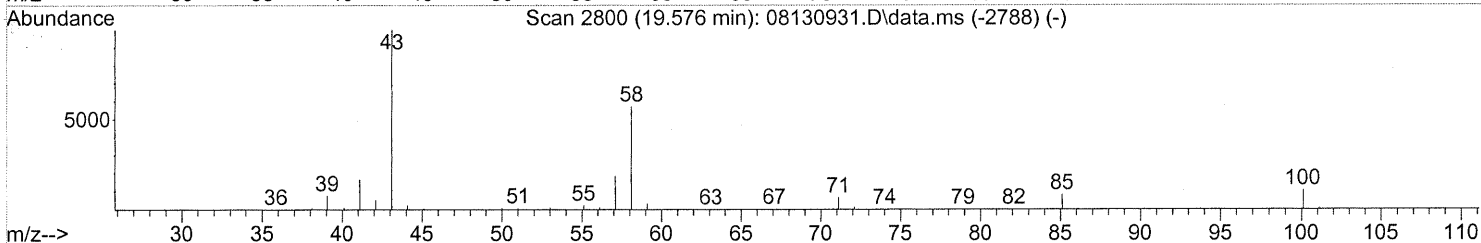
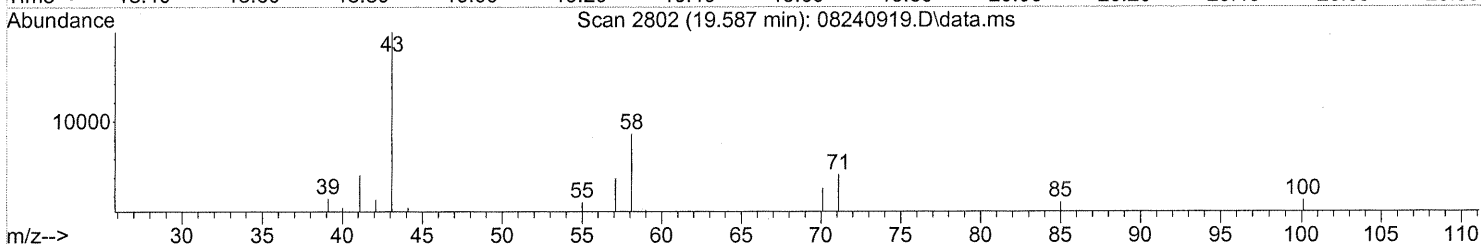
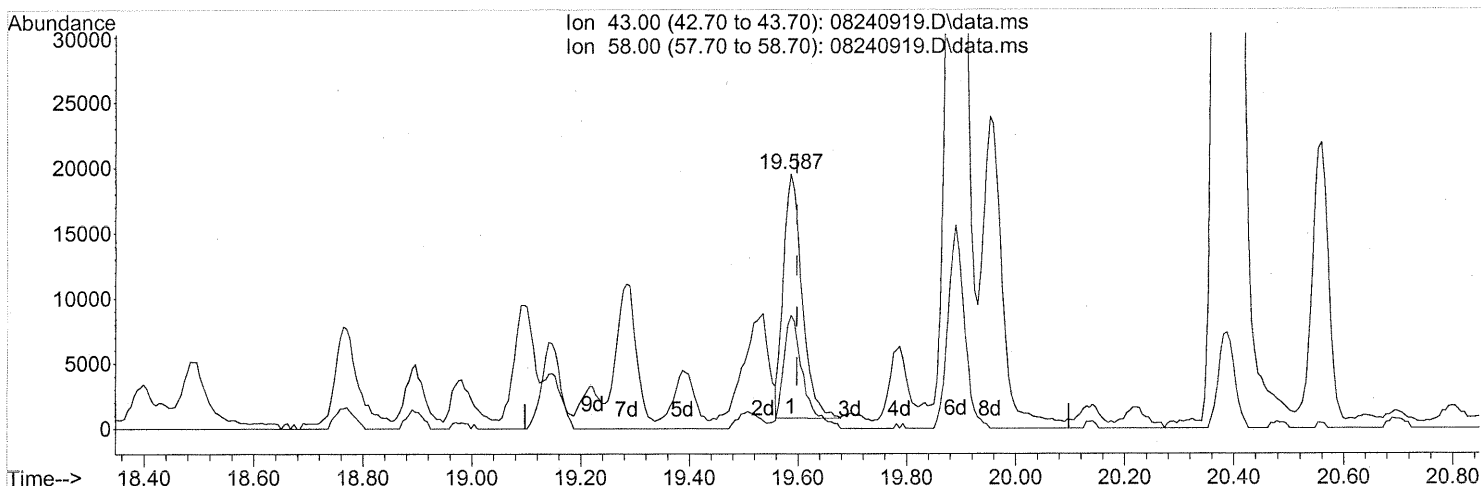
response 909472

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(59) 2-Hexanone (T)

19.587min (-0.011) 0.91ng

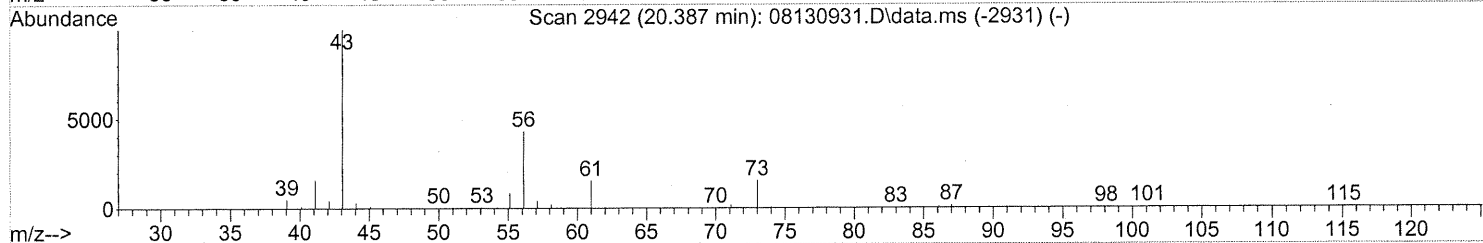
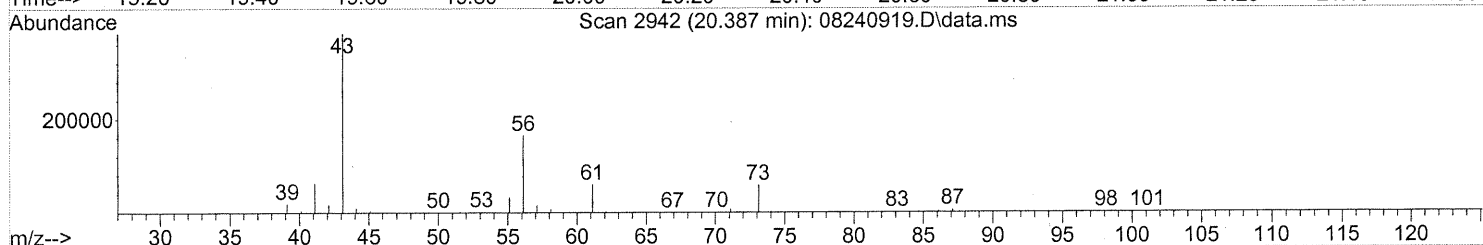
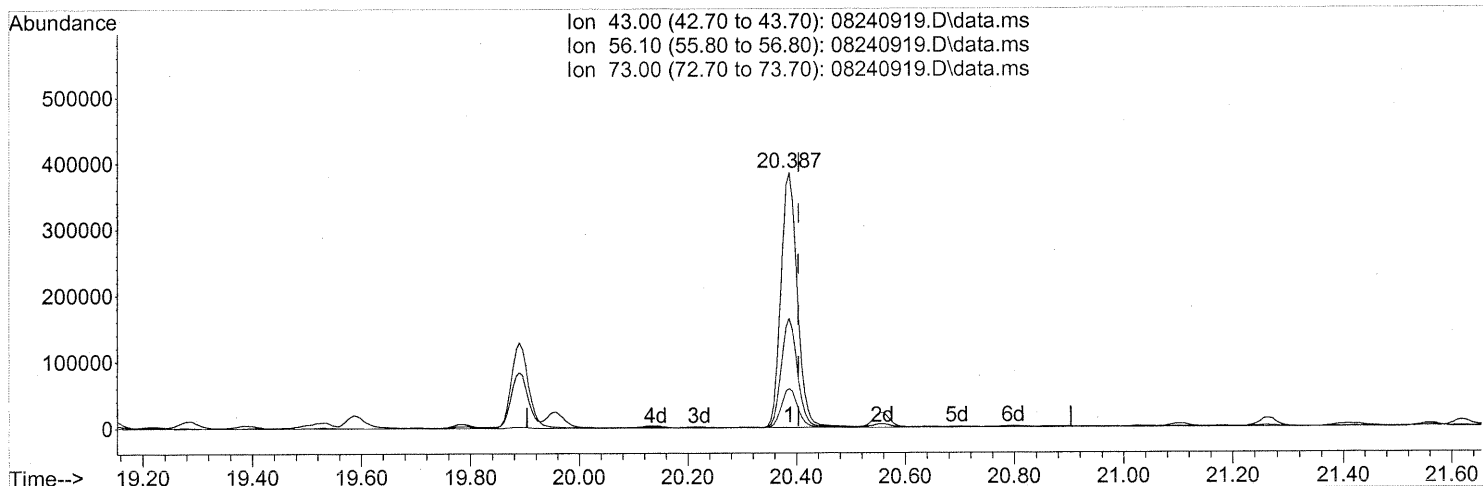
response 44885

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	49.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



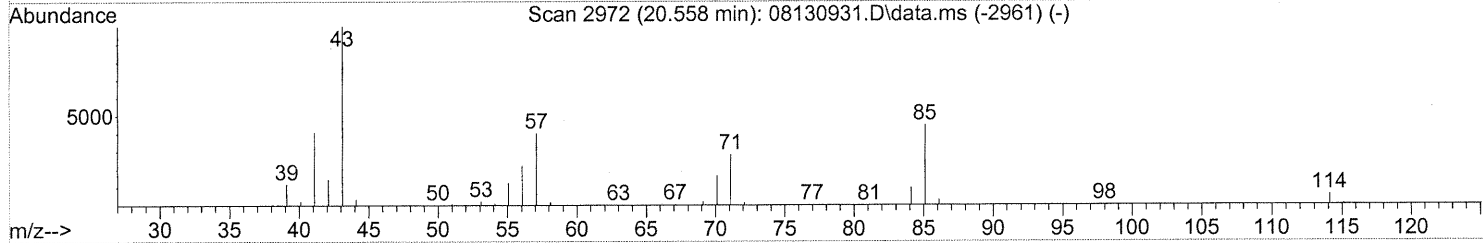
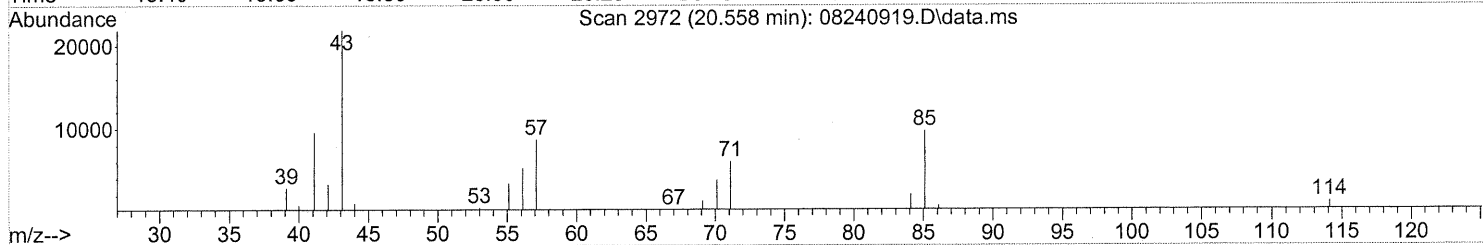
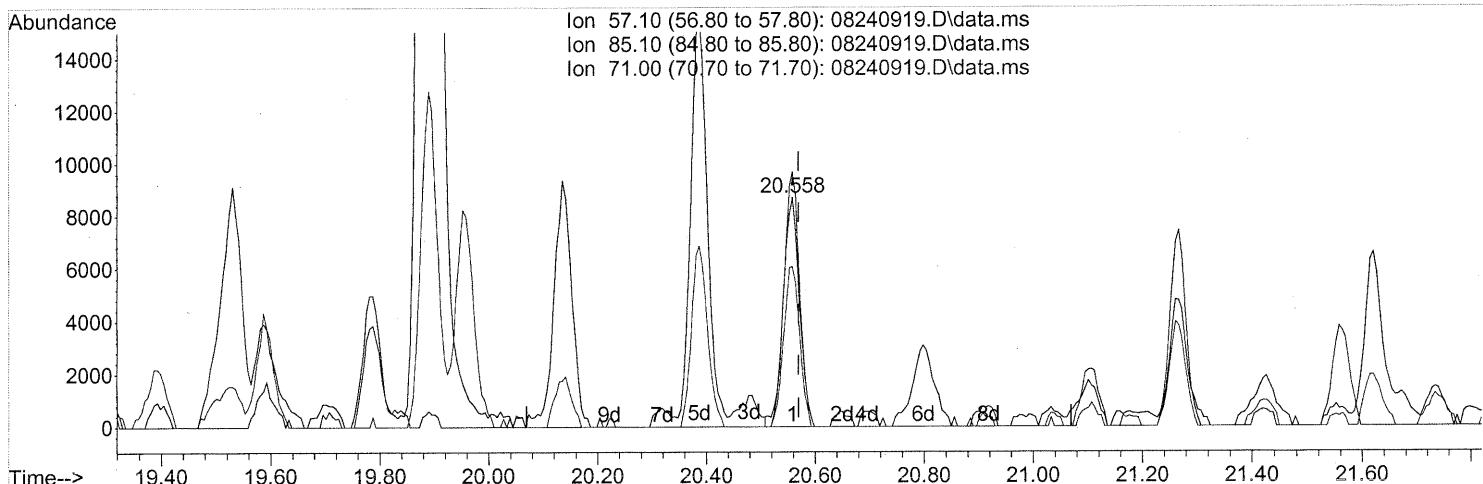
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 14.93ng
 response 801944

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	42.67
73.00	16.90	15.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

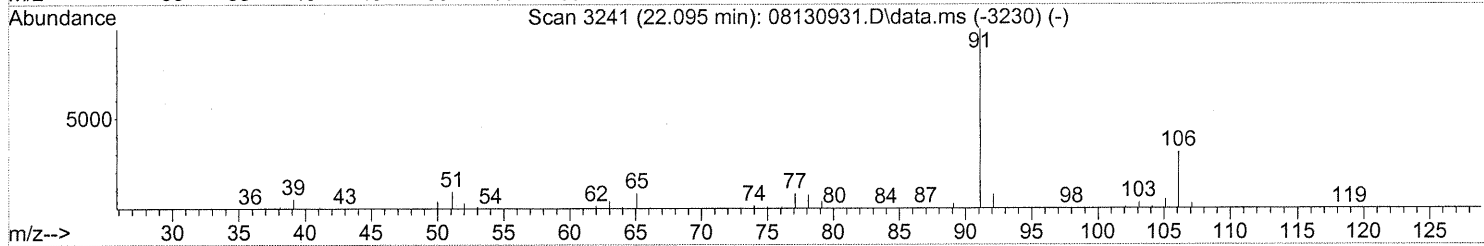
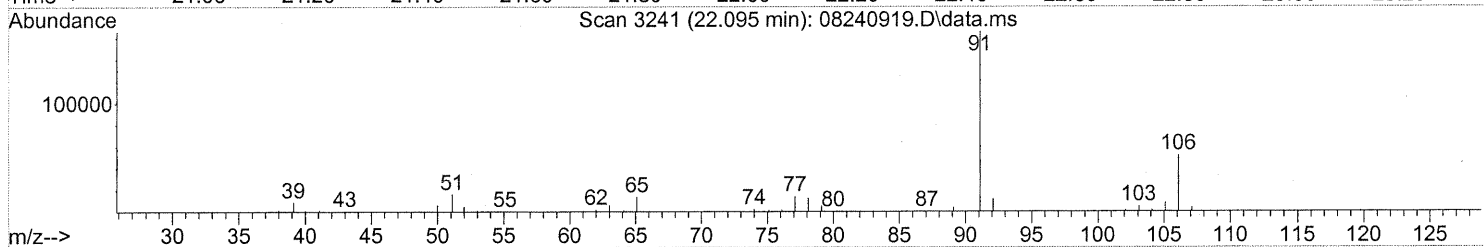
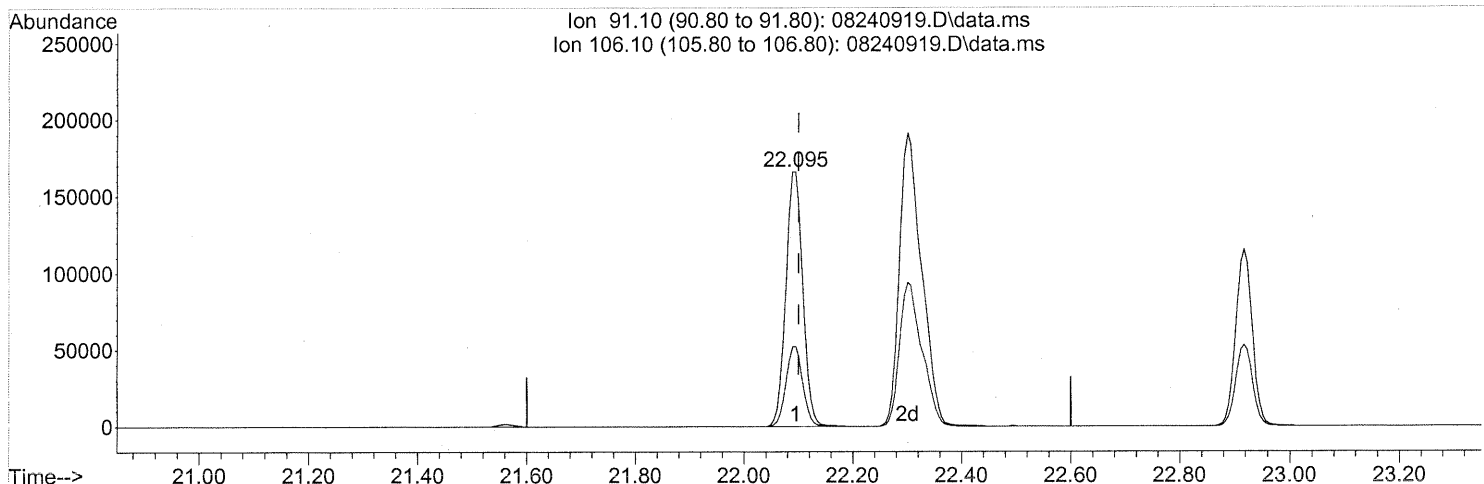
(63) n-Octane (T)
 20.558min (-0.011) 0.85ng
 response 18052

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	106.52
71.00	75.10	68.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(66) Ethylbenzene (T)

22.095min (-0.006) 3.49ng

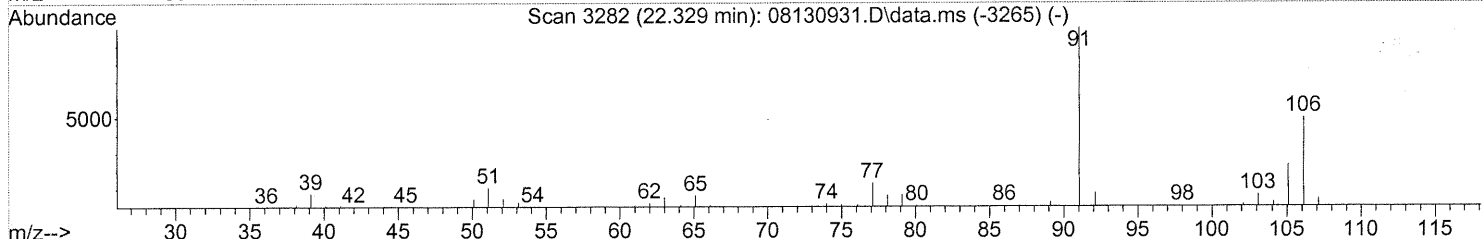
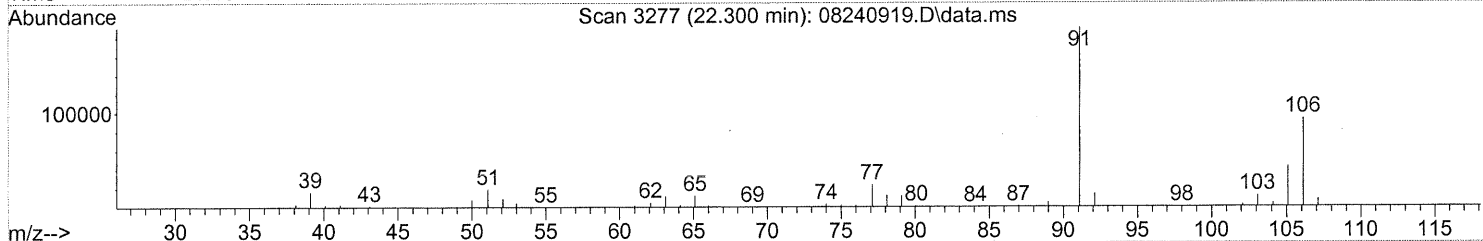
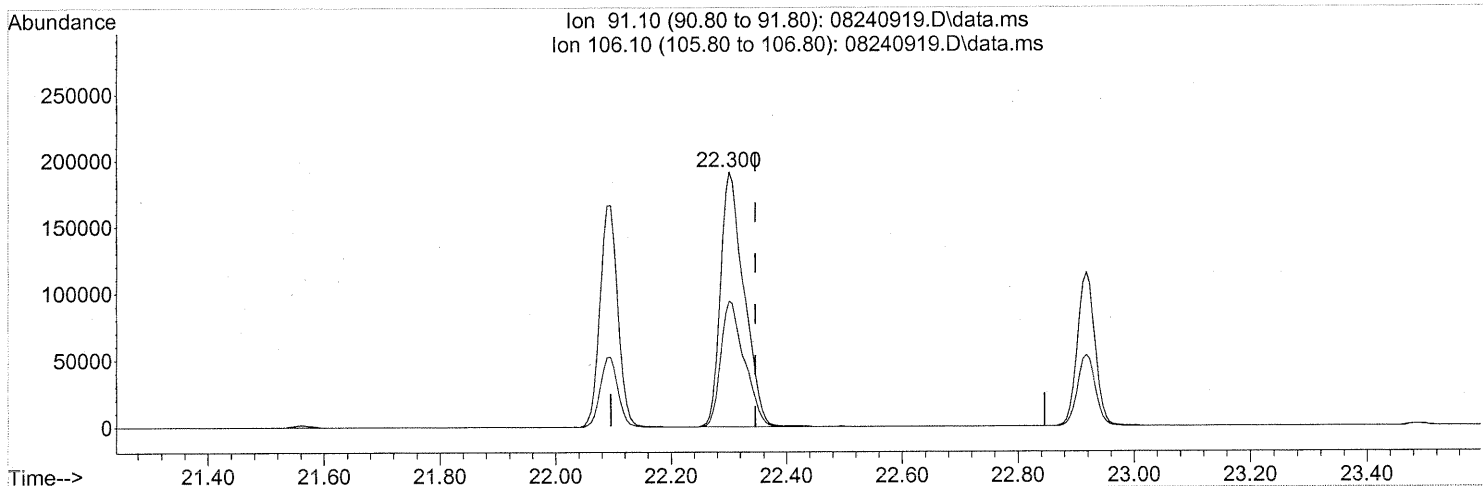
response 356955

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

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

22.300min (-0.046) 6.65ng

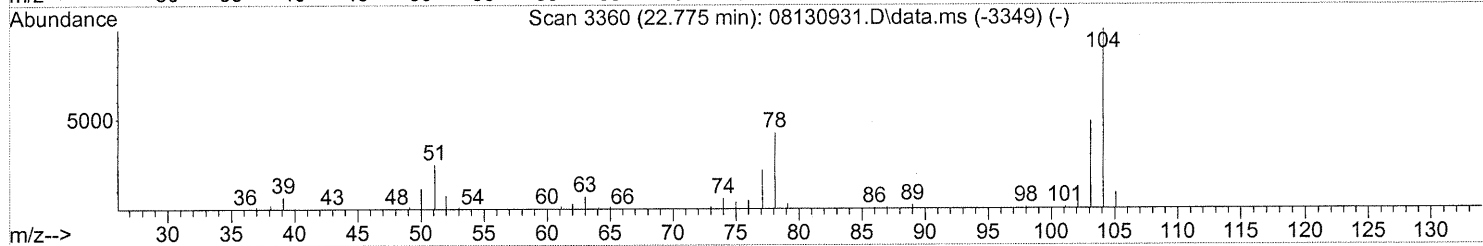
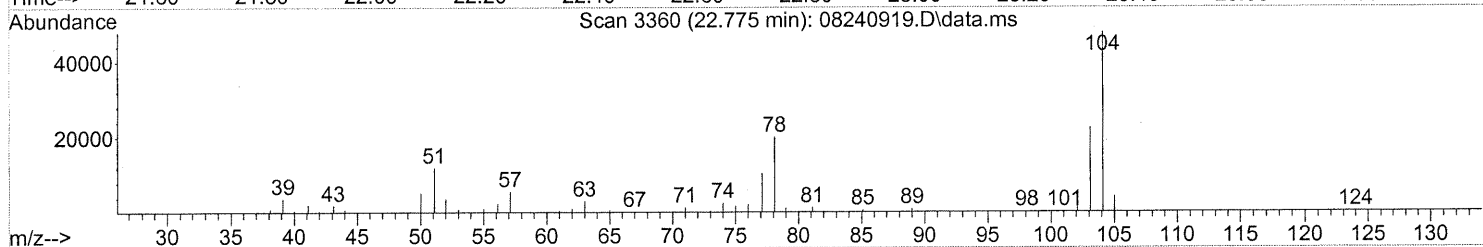
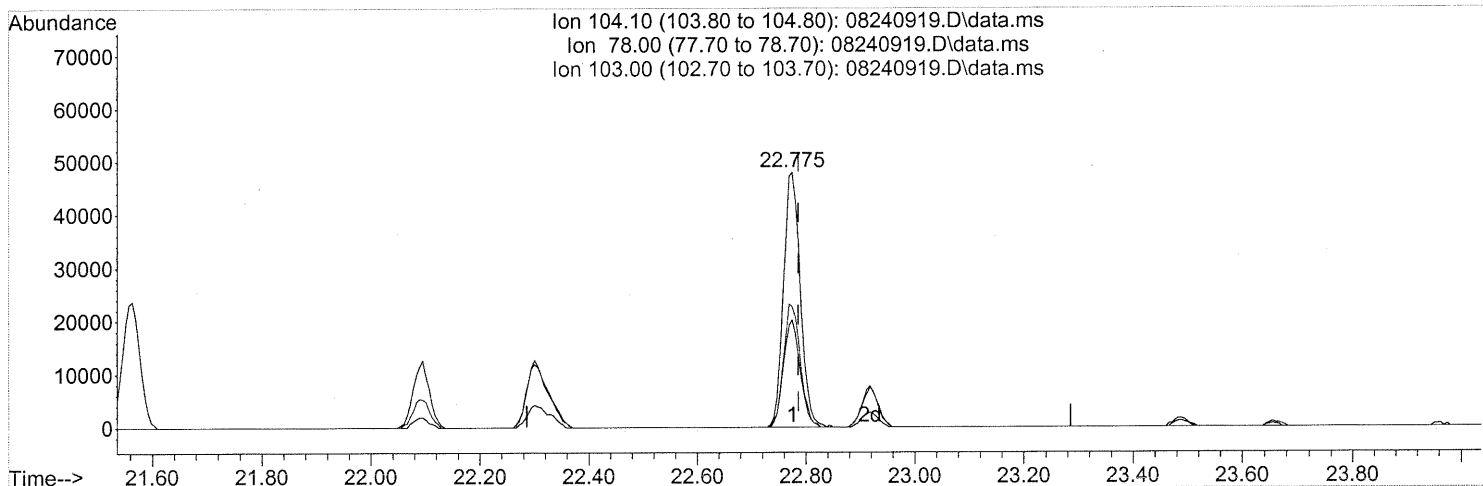
response 539521

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

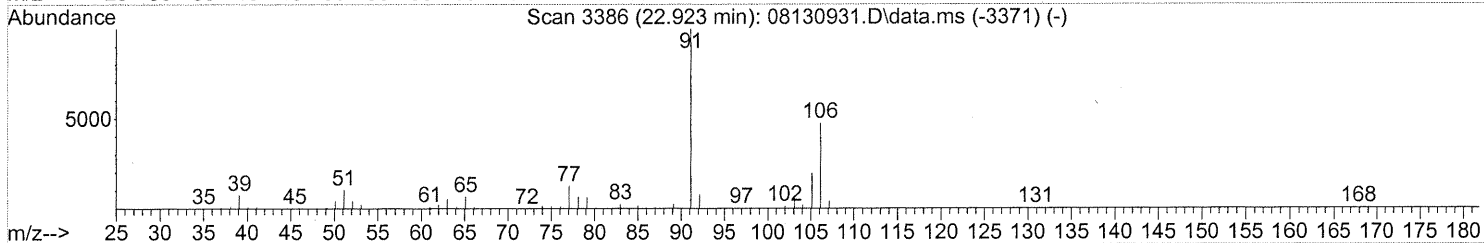
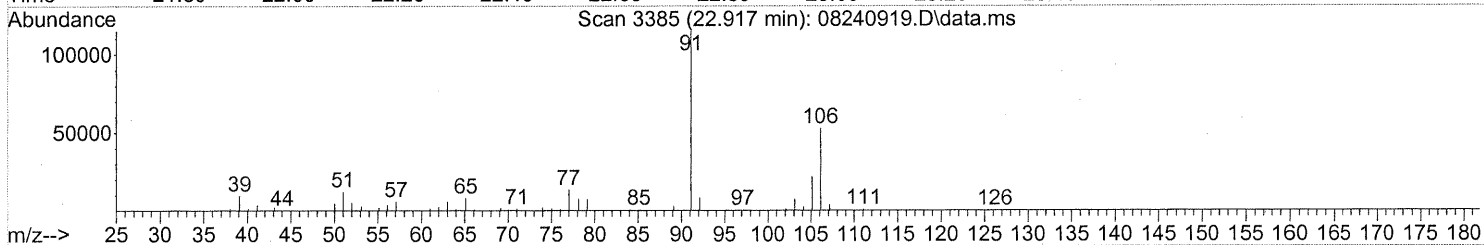
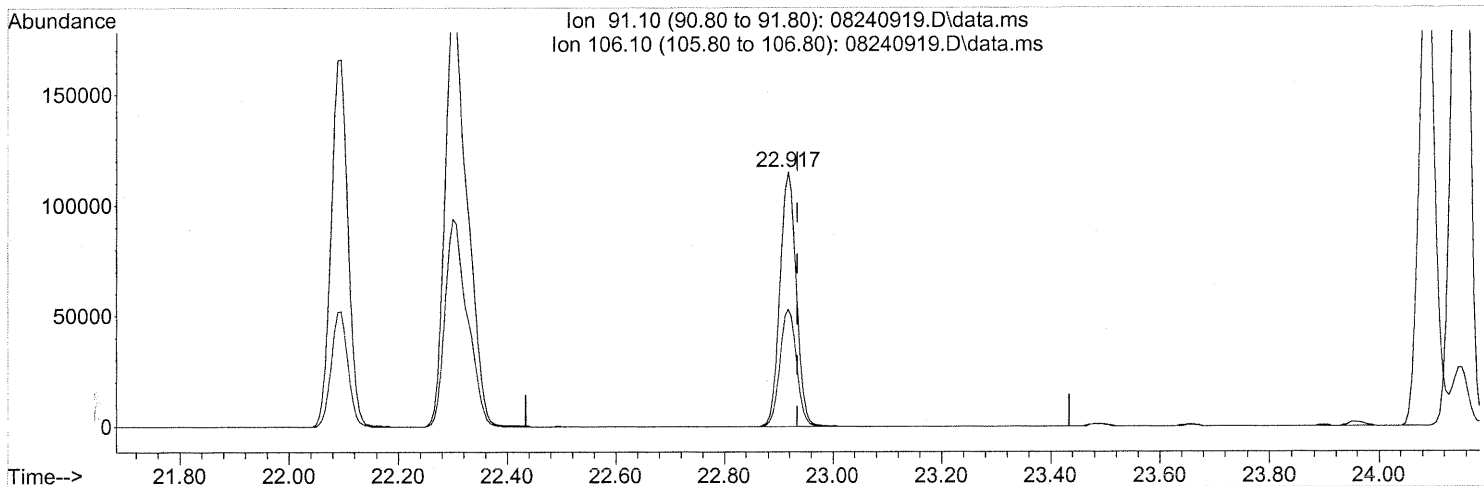
(69) Styrene (T)
 22.775min (-0.011) 1.71ng
 response 102520

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.70
103.00	48.70	48.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 25 07:37:32 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.917min (-0.017) 2.97ng

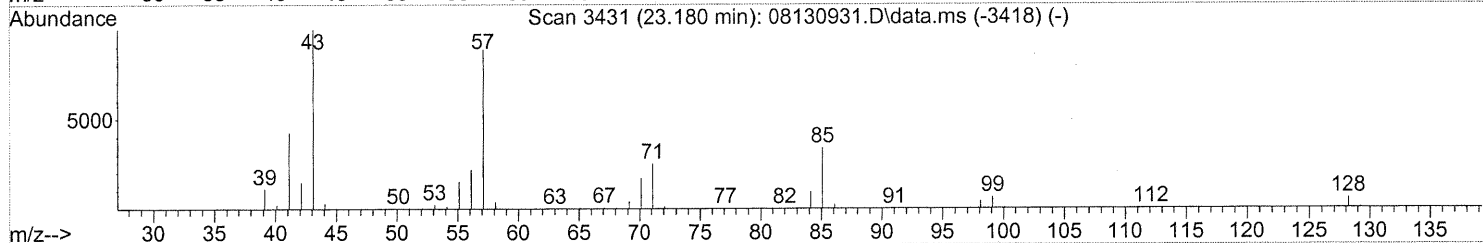
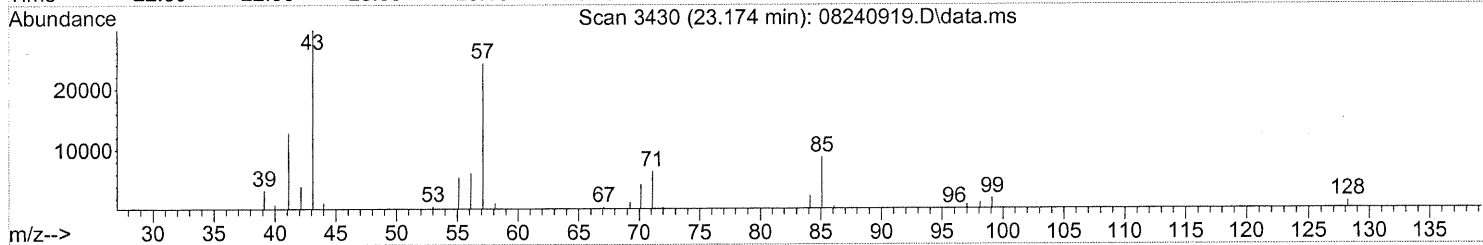
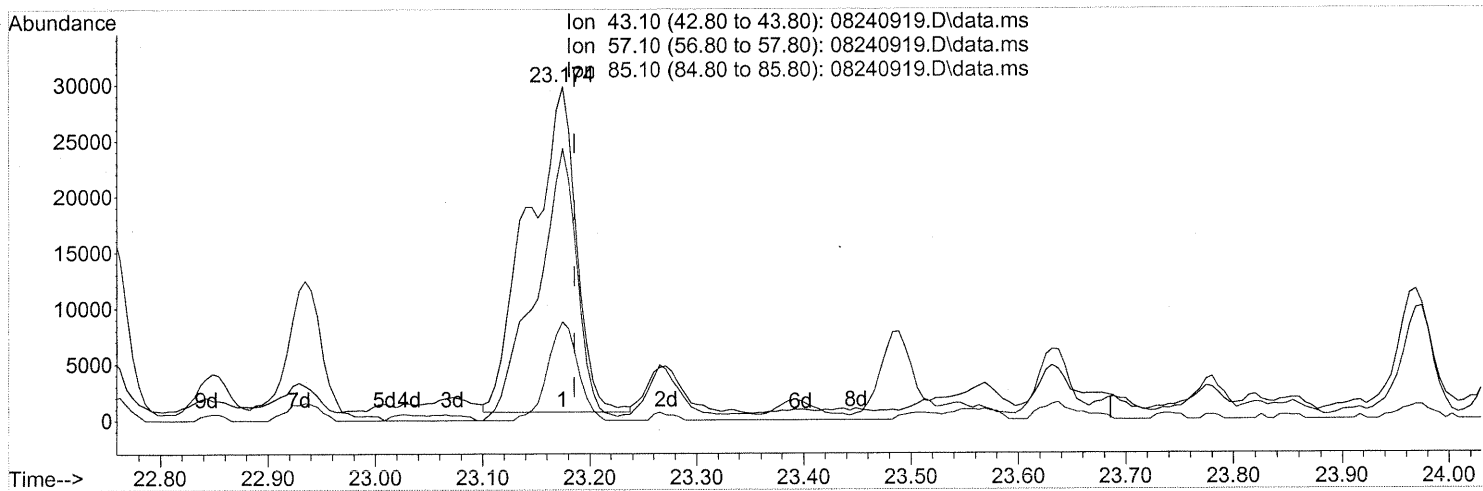
response 242132

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:35:19 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(71) n-Nonane (T)
 23.174min (-0.011) 1.83ng
 response 90029

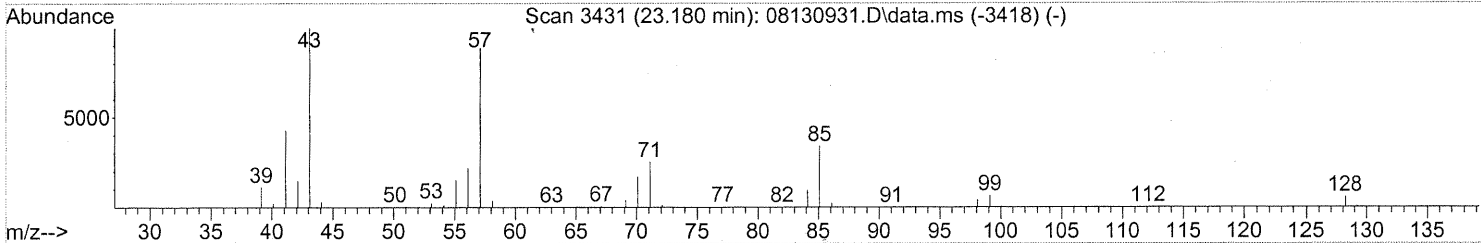
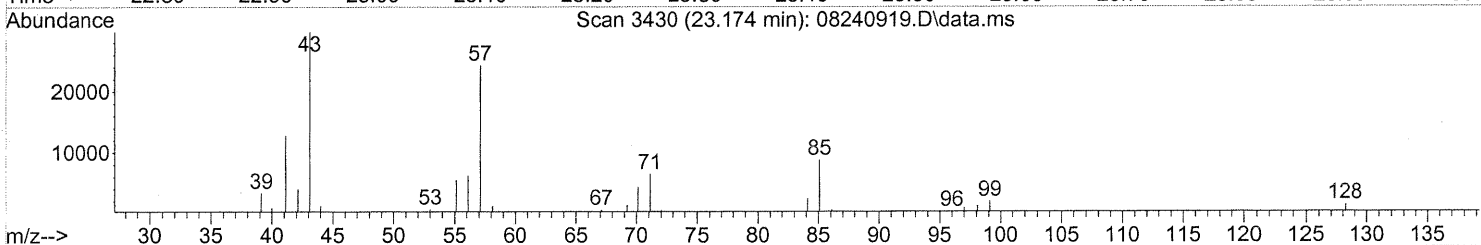
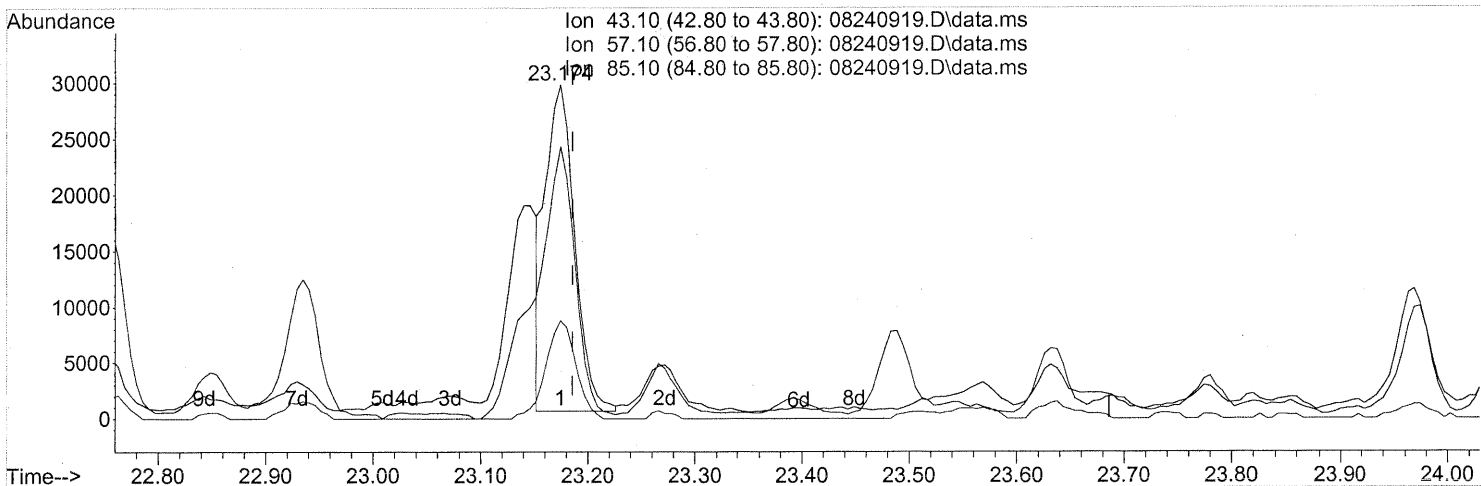
Ion	Exp%	Act%
43.10	100	100
57.10	94.00	71.57#
85.10	38.80	18.98
0.00	0.00	0.00

IPI

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:35:19 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(71) n-Nonane (T)
 23.174min (-0.011) 1.13ng m
 response 55590

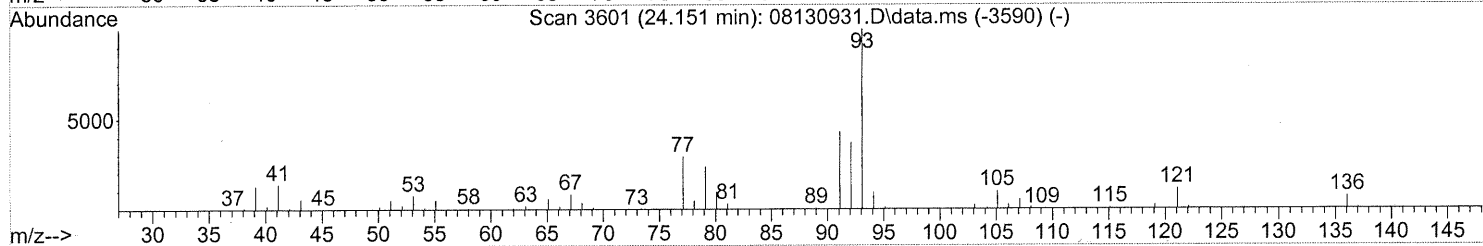
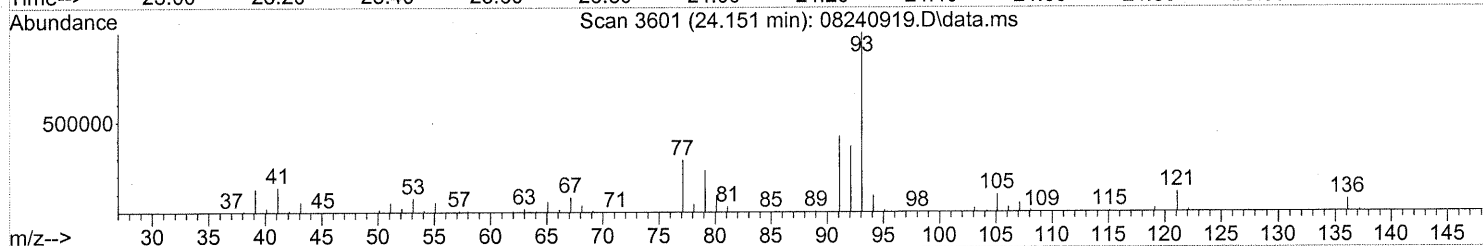
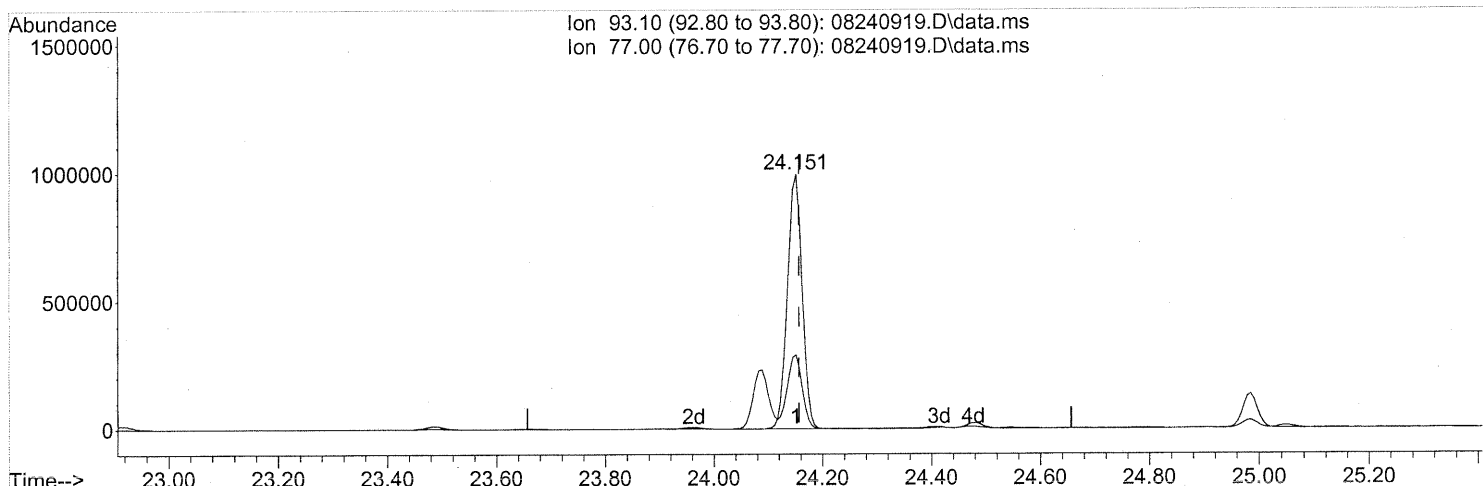
Ion	Exp%	Act%
43.10	100	100
57.10	94.00	115.92#
85.10	38.80	30.74
0.00	0.00	0.00

Handwritten notes:
 |P| → IC
 Com 8/28/09
 @ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:35:19 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

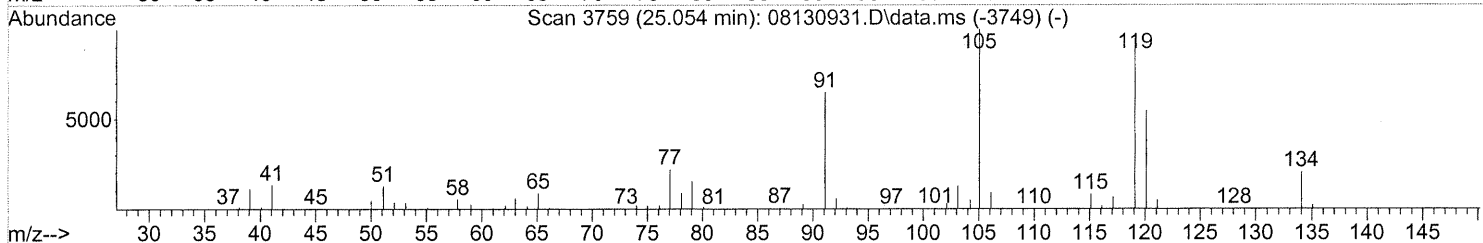
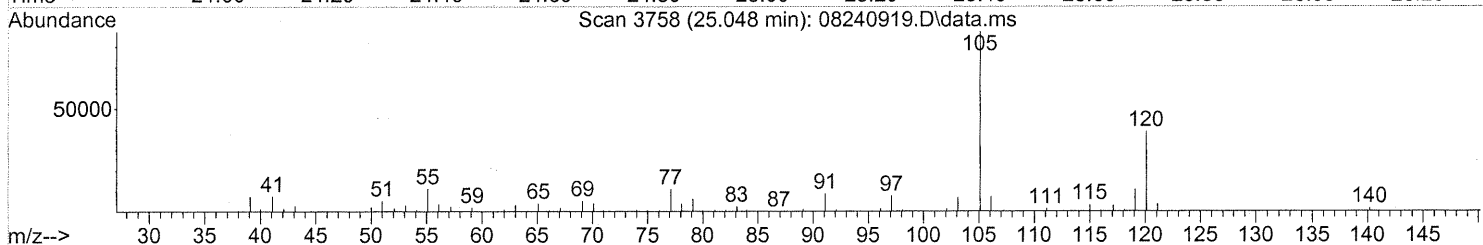
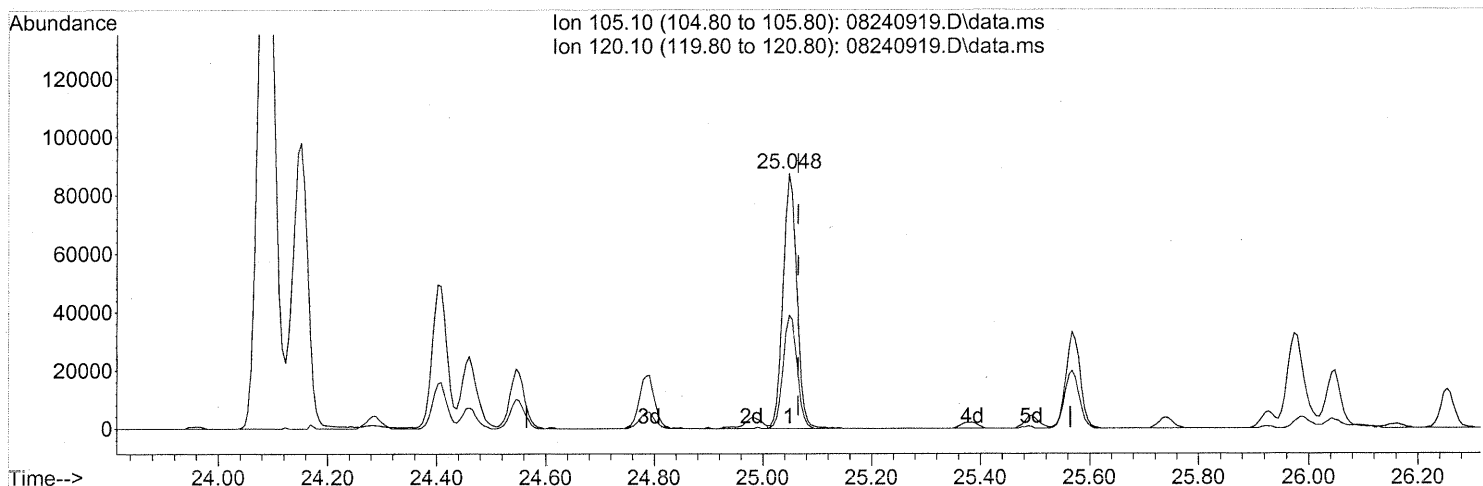
(75) alpha-Pinene (T)
 24.151min (-0.006) 35.73ng
 response 1864307

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:35:19 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

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

25.048min (-0.017) 1.76ng

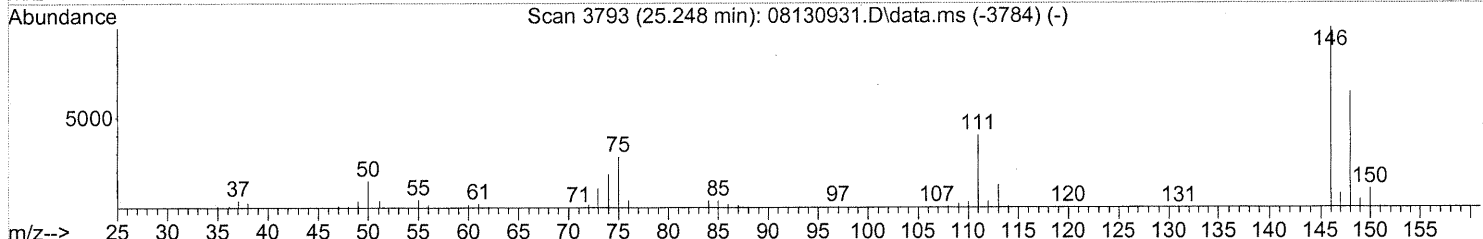
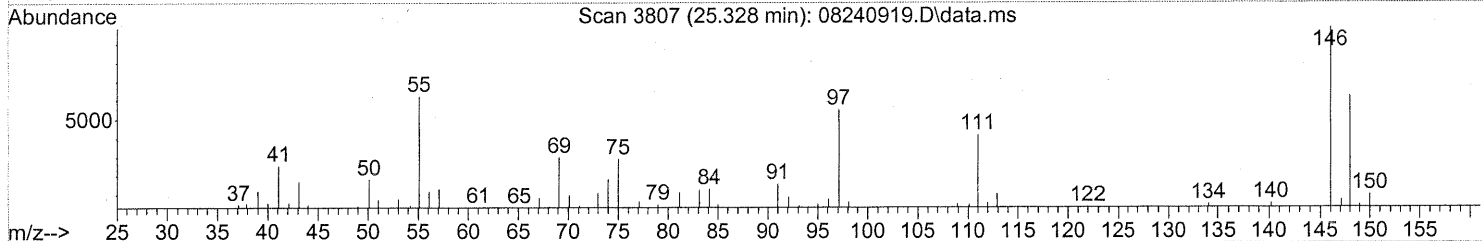
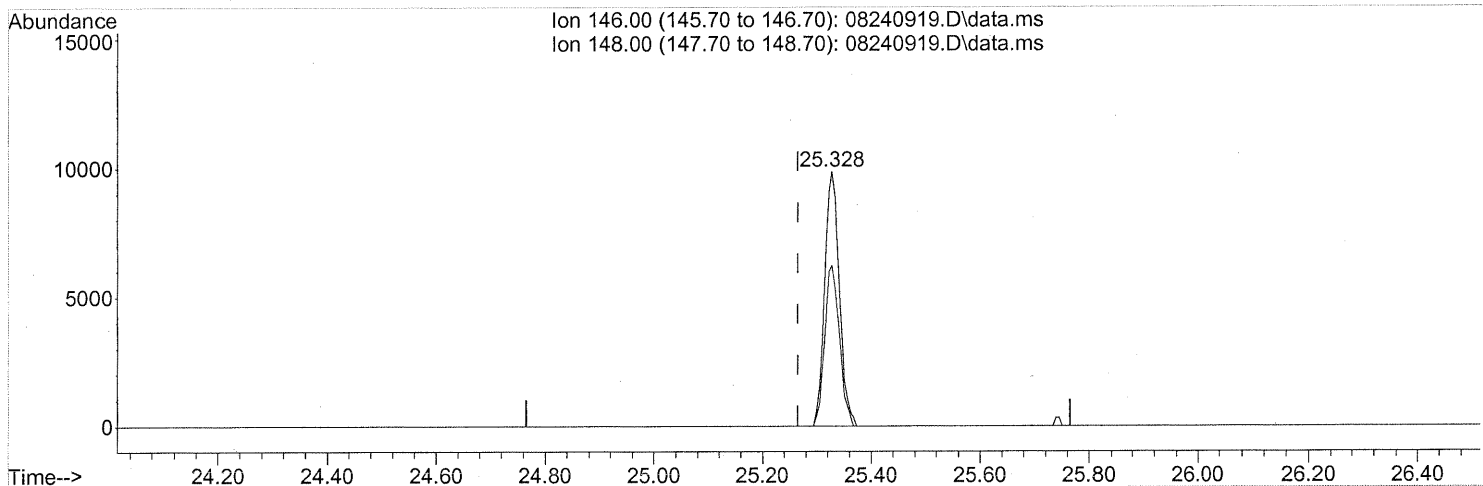
response 154266

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	45.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:35:19 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.328min (+0.063) 0.41ng

response 18450

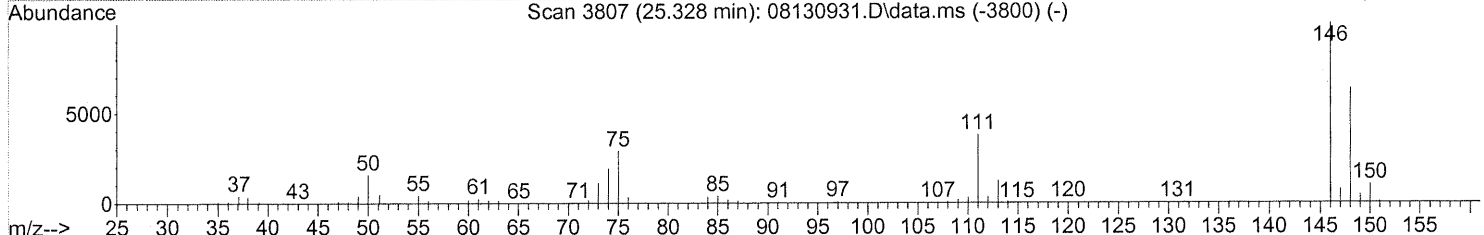
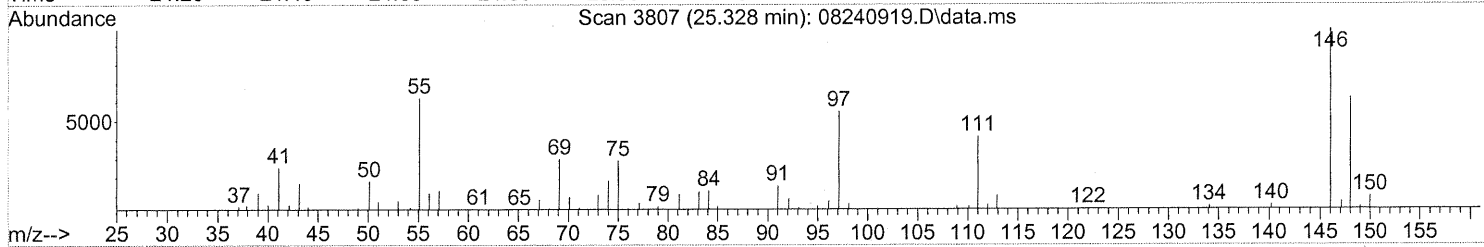
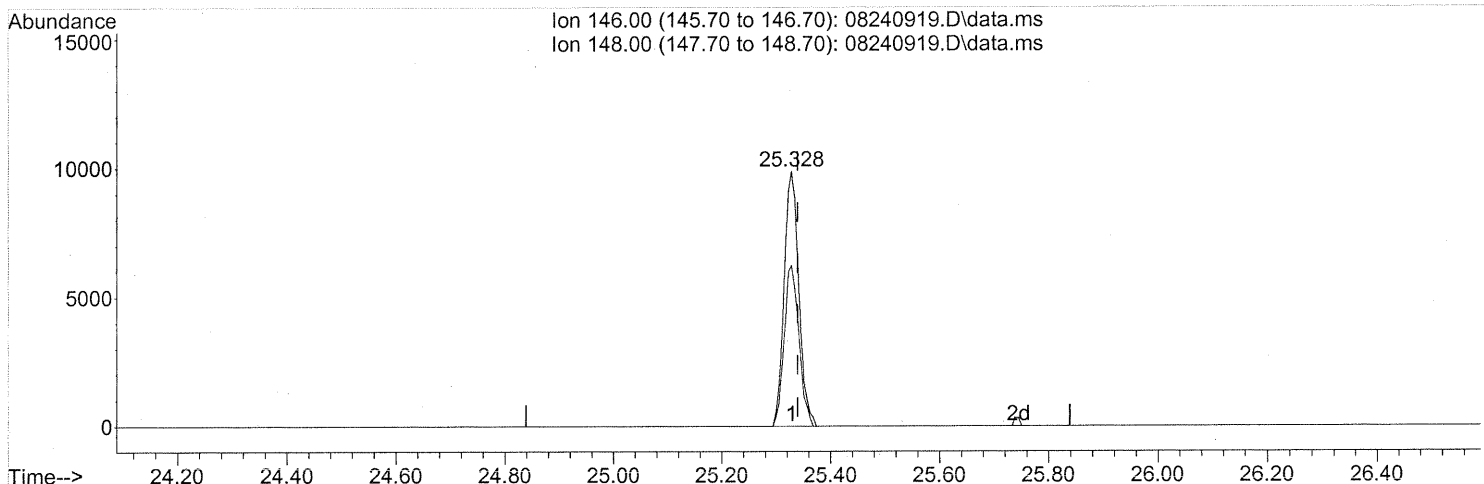
Ion	Exp%	Act%
146.00	100	100
148.00	63.60	63.15
0.00	0.00	0.00
0.00	0.00	0.00

FP Em 8/28/09
@ 8/30/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:35:19 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.38ng

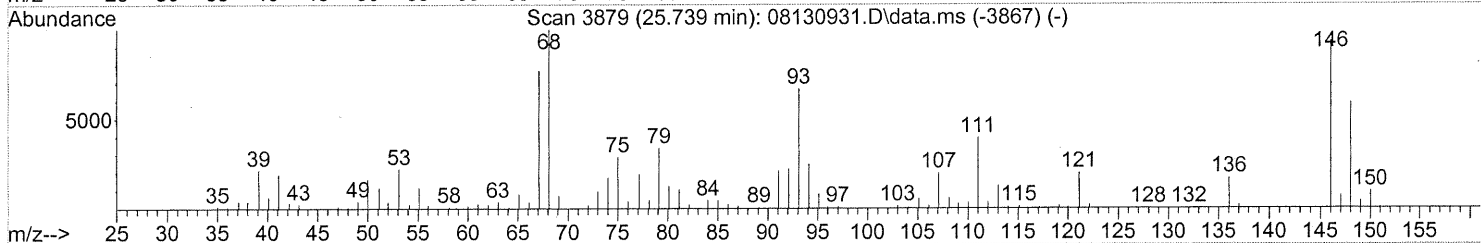
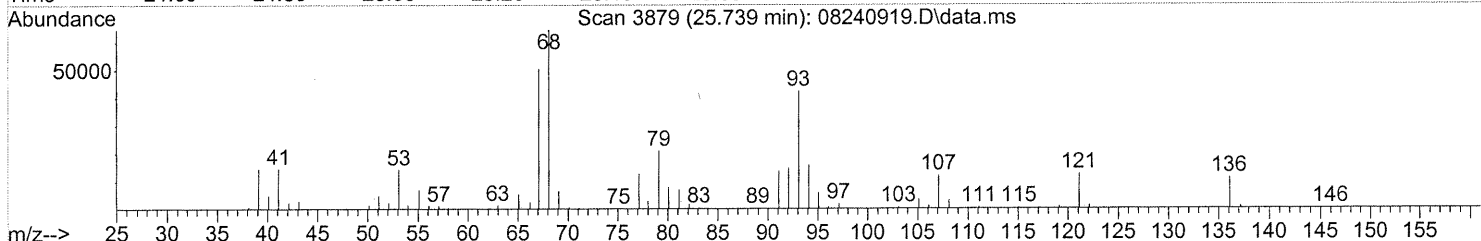
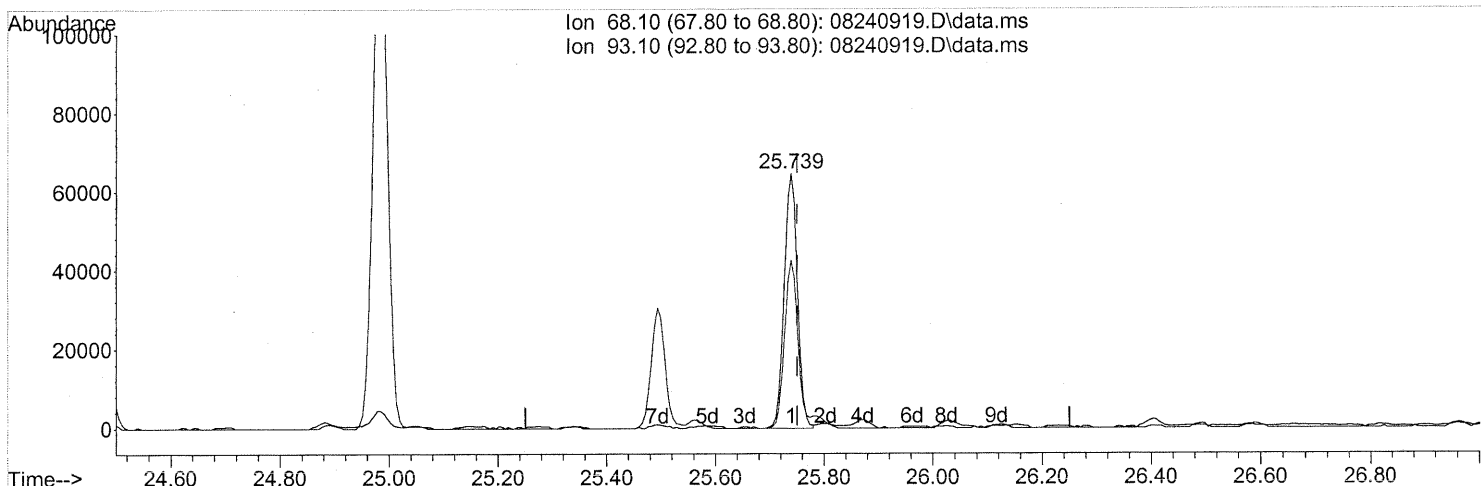
response 18450

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	63.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:35:19 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

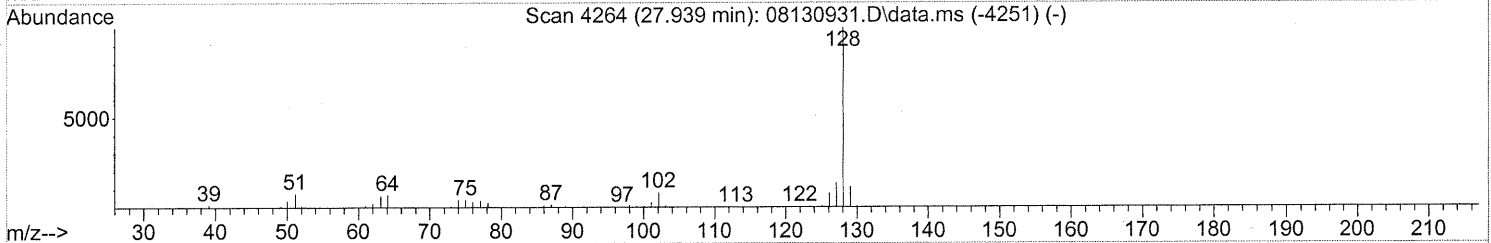
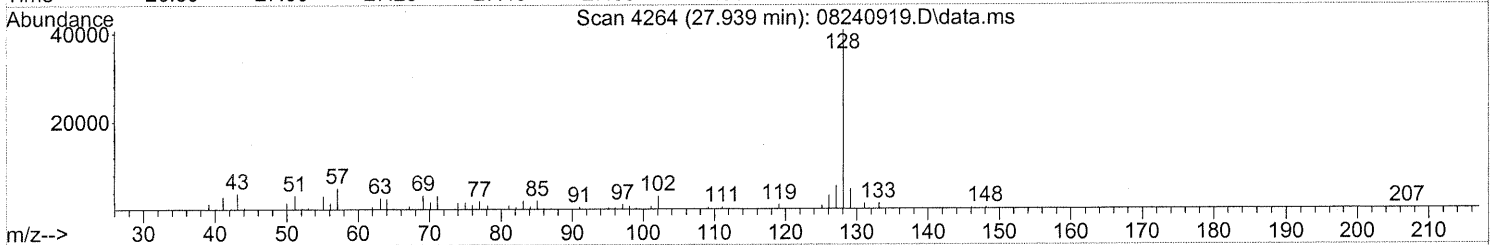
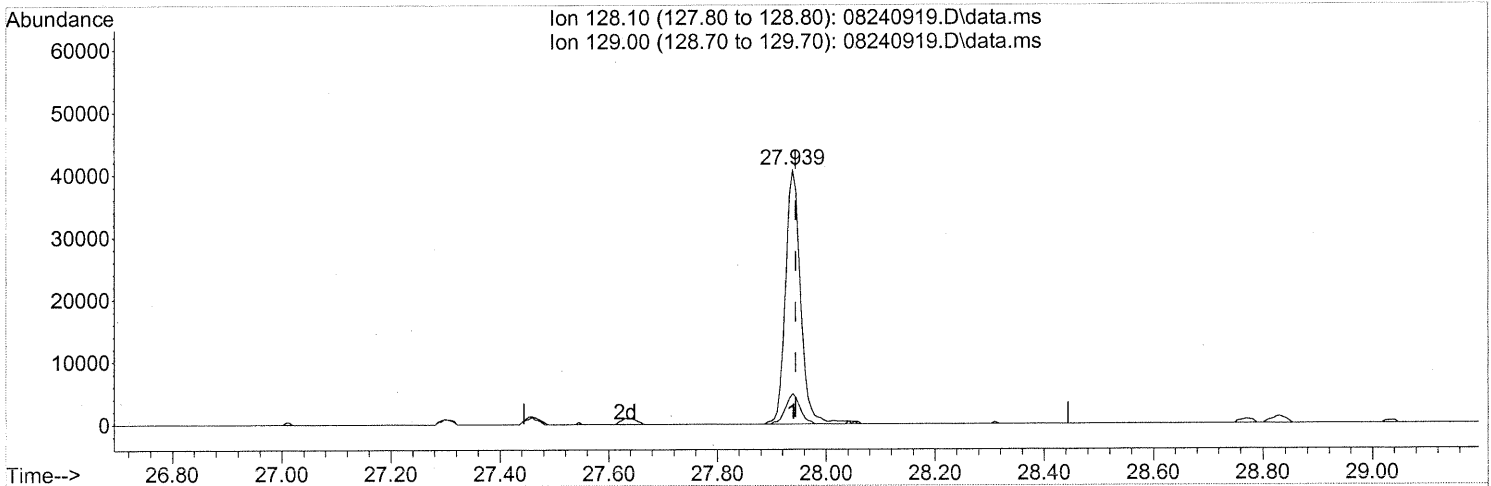
(91) d-Limonene (T)
 25.739min (-0.011) 3.07ng
 response 110004

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	70.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240919.D
 Acq On : 24 Aug 2009 21:10
 Operator : EM
 Sample : P0902832-002 dup (1000ml)
 Misc : Eng. H&E 101655
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 27 13:35:19 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08240919.D\data.ms

(95) Naphthalene (T)
 27.939min (-0.006) 0.67ng
 response 78699

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	11.19
0.00	0.00	0.00
0.00	0.00	0.00

INITIAL CALIBRATION STANDARDS

Method Path : J:\MS09\Methods\
 Method File : R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 14 07:31:29 2009
 Response Via : Initial Calibration

Calibration Files

0.1 =08130926.D 0.2 =08130927.D 0.5 =08130928.D 1.0 =08130929.D 5.0 =08130930.D 25 =08130931.D
 50 =08130932.D 100 =08130933.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethane...				ISTD						
2) T Propene	2.174	2.059	2.094	1.808	2.232	2.290	2.446	2.441	2.193	9.63
3) T Dichlorodifluo...	3.035	3.114	3.770	3.266	3.072	2.931	2.923	2.931	3.130	9.06
4) T Chloromethane	2.821	2.880	3.586	3.105	2.875	2.912	2.723	2.438	2.918	11.31
5) T 1,2-Dichloro-1...	1.540	1.594	1.974	1.722	1.584	1.592	1.618	1.608	1.654	8.41
6) T Vinyl Chloride	2.832	2.792	3.468	3.004	2.799	2.744	2.731	2.654	2.878	8.99
7) T 1,3-Butadiene	1.798	1.830	2.433	2.110	2.037	2.073	2.052	2.021	2.044	9.50
8) T Bromomethane	1.454	1.354	1.828	1.539	1.457	1.488	1.450	1.470	1.505	9.32
9) T Chloroethane	1.288	1.353	1.704	1.532	1.407	1.388	1.372	1.378	1.428	9.16
10) T Ethanol	1.327	1.340	1.502	1.355	1.359	1.397	1.382	1.343	1.376	4.08
11) T Acetonitrile	3.225	3.235	3.880	3.469	3.312	3.308	3.278	3.151	3.357	6.86
12) T Acrolein	0.587	0.838	1.022	0.925	0.938	0.968	0.960	0.938	0.897	15.10
13) T Acetone	1.737	1.573	1.514	1.326	1.242	1.261	1.272	1.274	1.400	13.19
14) T Trichlorofluor...	2.460	2.470	3.217	2.781	2.602	2.632	2.617	2.637	2.677	8.99
15) T 2-Propanol (Is...	3.909	4.076	5.169	4.663	3.537	3.561	2.938	2.816	3.834	21.00
16) T Acrylonitrile	1.184	1.544	2.296	2.130	2.248	2.314	2.290	2.261	2.033	21.03
17) T 1,1-Dichloroet...	1.628	1.534	1.819	1.557	1.481	1.503	1.505	1.541	1.571	6.98
18) T 2-Methyl-2-Pro...	3.719	3.691	4.575	4.109	4.026	4.261	2.863		3.892	14.06
19) T Methylene Chlo...	2.075	1.791	2.042	1.702	1.591	1.591	1.590	1.589	1.747	11.79
20) T 3-Chloro-1-pro...	1.881	1.974	2.644	2.375	2.386	2.488	2.495	2.494	2.342	11.52
21) T Trichlorotrifl...	1.029	1.052	1.425	1.232	1.189	1.220	1.226	1.212	1.198	10.17
22) T Carbon Disulfide	6.127	5.864	7.192	6.199	5.928	5.960	5.995	6.042	6.163	6.96
23) T trans-1,2-Dich...	2.076	2.186	2.809	2.490	2.391	2.447	2.447	2.439	2.411	9.02
24) T 1,1-Dichloroet...	2.858	2.714	3.451	2.979	2.870	2.922	2.925	2.901	2.952	7.32
25) T Methyl tert-Bu...	4.501	4.369	5.328	4.761	4.707	4.811	4.903	4.894	4.784	6.03
26) T Vinyl Acetate			0.219	0.227	0.282	0.357	0.377	0.356	0.303	23.05
27) T 2-Butanone (MEK)			0.903	0.913	1.059	1.121	1.122	0.739	0.976	15.54
28) T cis-1,2-Dichlo...	2.018	2.033	2.703	2.314	2.205	2.250	2.252	2.222	2.250	9.40
29) T Diisopropyl Ether	1.155	1.224	1.532	1.408	1.329	1.407	1.482	1.548	1.386	10.24
30) T Ethyl Acetate			0.547	0.527	0.598	0.673	0.712	0.741	0.633	14.01
31) n-Hexane	2.858	2.878	3.605	3.054	2.887	2.950	3.149	3.298	3.085	8.42

Method Path : J:\MS09\Methods\
 Method File : R9081309.M

Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

Title	2.288	2.357	3.101	2.678	2.528	2.559	2.566	2.581	2.582	9.48
32) T Chloroform	2.288	2.357	3.101	2.678	2.528	2.559	2.566	2.581	2.582	9.48
33) S 1,2-Dichloroet...	1.783	1.785	1.775	1.777	1.772	1.756	1.748	1.745	1.768	0.87
34) T Tetrahydrofura...	0.777	0.944	1.132	1.091	1.068	1.060	1.025	1.021	1.015	10.94
35) T Ethyl tert-But...	1.774	1.706	2.202	2.019	1.944	2.017	2.064	2.089	1.977	8.34
36) T 1,2-Dichloroet...	1.727	1.673	2.296	2.056	1.996	2.029	2.021	2.008	1.976	9.92
37) IR 1,4-Difluorobenzen...	-----ISTD-----									
38) T 1,1,1-Trichlor...	0.444	0.420	0.523	0.463	0.437	0.451	0.456	0.445	0.455	6.67
39) T Isopropyl Acetate	0.140	0.170	0.218	0.205	0.205	0.228	0.231	0.236	0.204	16.31
40) T 1-Butanol	0.193	0.296	0.289	0.324	0.324	0.388	0.392	0.385	0.324	22.49
41) T Benzene	1.392	1.274	1.620	1.363	1.255	1.281	1.288	1.283	1.344	9.01
42) T Carbon Tetrach...	0.325	0.355	0.434	0.386	0.359	0.378	0.384	0.386	0.376	8.32
43) T Cyclohexane	0.487	0.473	0.597	0.520	0.494	0.516	0.530	0.548	0.521	7.54
44) T tert-Amyl Meth...	0.885	0.846	1.058	0.930	0.920	0.958	0.977	0.986	0.945	6.91
45) T 1,2-Dichloropr...	0.287	0.294	0.386	0.342	0.323	0.336	0.336	0.335	0.330	9.28
46) T Bromodichlorom...	0.310	0.343	0.460	0.400	0.392	0.412	0.417	0.413	0.393	11.87
47) T Trichloroethene	0.350	0.332	0.393	0.342	0.315	0.328	0.331	0.341	0.341	6.80
48) T 1,4-Dioxane	0.149	0.181	0.262	0.247	0.250	0.272	0.277	0.275	0.239	19.91
49) T 2,2,4-Trimethy...	1.490	1.428	1.805	1.593	1.481	1.519	1.540	1.522	1.547	7.41
50) T Methyl Methacr...	0.126	0.120	0.127	0.140	0.140	0.140	0.144	0.149	0.134	8.76
51) T n-Heptane	0.318	0.311	0.430	0.377	0.344	0.357	0.362	0.363	0.358	10.30
52) T cis-1,3-Dichlo...	0.369	0.393	0.562	0.496	0.513	0.543	0.550	0.550	0.497	15.11
53) T 4-Methyl-2-pen...	0.183	0.286	0.279	0.295	0.328	0.328	0.332	0.330	0.291	18.02
54) T trans-1,3-Dich...	0.279	0.328	0.475	0.439	0.461	0.496	0.501	0.498	0.435	19.49
55) T 1,1,2-Trichlor...	0.220	0.242	0.336	0.299	0.290	0.302	0.303	0.305	0.287	13.09
56) IR Chlorobenzene-d5 (...)	-----ISTD-----									
57) S Toluene-d8 (SS2)	2.389	2.355	2.357	2.374	2.368	2.378	2.373	2.420	2.377	0.87
58) T Toluene	2.992	2.615	3.218	2.870	2.713	2.825	2.847	2.969	2.881	6.39
59) T 2-Hexanone	1.374	1.315	1.424	1.609	1.622	1.609	1.622	1.640	1.497	9.52
60) T Dibromochlorom...	0.498	0.484	0.692	0.611	0.611	0.658	0.666	0.701	0.615	13.57
61) T 1,2-Dibromoethane	0.480	0.540	0.721	0.653	0.655	0.697	0.706	0.736	0.648	14.14
62) T n-Butyl Acetate	0.946	1.471	1.454	1.644	1.883	1.948	2.090	1.634	23.73	23.73
63) T n-Octane	0.573	0.534	0.733	0.656	0.631	0.651	0.665	0.695	0.642	9.96
64) T Tetrachloroethene	0.653	0.633	0.813	0.718	0.674	0.715	0.728	0.785	0.715	8.69
65) T Chlorobenzene	1.711	1.658	1.998	1.775	1.674	1.736	1.755	1.847	1.769	6.22
66) T Ethylbenzene	2.866	2.701	3.479	3.120	3.007	3.146	3.209	3.355	3.111	8.11
67) T m- & p-Xylenes	2.202	2.207	2.735	2.430	2.352	2.488	2.570	2.744	2.466	8.56
68) T Bromoform	0.379	0.408	0.568	0.518	0.530	0.592	0.616	0.661	0.534	18.39
69) T Styrene	1.461	1.519	1.980	1.784	1.806	1.936	1.981	2.115	1.823	12.67
70) T o-Xylene	2.290	2.120	2.774	2.457	2.356	2.507	2.579	2.763	2.481	9.13

Method Path : J:\MS09\Methods\
 Method File : R9081309.M

Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

71)	T	n-Nonane	1.391	1.313	1.710	1.525	1.444	1.512	1.522	1.535	1.494	7.85
72)	T	1,1,2,2-Tetrac...	0.879	0.869	1.168	1.042	1.050	1.120	1.157	1.240	1.066	12.60
73)	S	Bromofluoroben...	0.673	0.671	0.674	0.671	0.671	0.677	0.676	0.671	0.673	0.39
74)	T	Cumene	2.984	2.848	3.575	3.168	3.066	3.250	3.329	3.513	3.217	7.84
75)	T	alpha-Pinene	1.402	1.392	1.723	1.533	1.537	1.629	1.680	1.799	1.587	9.28
76)	T	n-Propylbenzene	3.674	3.502	4.445	3.969	3.822	4.041	4.126	4.224	3.975	7.65
77)	T	3-Ethyltoluene	2.729	2.641	3.288	2.935	2.885	3.119	3.151	3.357	3.013	8.56
78)	T	4-Ethyltoluene	2.922	2.595	3.364	2.976	2.853	2.991	3.174	3.361	3.029	8.63
79)	T	1,3,5-Trimethy...	2.363	2.252	2.746	2.471	2.345	2.495	2.579	2.787	2.505	7.61
80)	T	alpha-Methylst...	1.104	1.096	1.433	1.304	1.329	1.447	1.506	1.655	1.359	14.20
81)	T	2-Ethyltoluene	2.902	2.717	3.467	3.084	2.953	3.115	3.211	3.445	3.112	8.35
82)	T	1,2,4-Trimethy...	2.333	2.241	2.782	2.509	2.448	2.756	2.954	3.253	2.660	12.81
83)	T	n-Decane	1.406	1.408	1.725	1.551	1.487	1.557	1.583	1.667	1.548	7.34
84)	T	Benzyl Chloride	1.491	1.511	2.028	1.926	2.036	2.350	2.447	2.671	2.058	20.55
85)	T	1,3-Dichlorobe...	1.210	1.172	1.550	1.346	1.295	1.384	1.445	1.613	1.377	11.26
86)	T	1,4-Dichlorobe...	1.347	1.288	1.627	1.448	1.360	1.452	1.505	1.660	1.461	9.06
87)	T	sec-Butylbenzene	3.353	3.011	3.930	3.477	3.335	3.526	3.611	3.794	3.505	8.16
88)	T	4-Isopropyltol...	2.950	2.839	3.579	3.210	3.135	3.474	3.717	3.960	3.358	11.59
89)	T	1,2,3-Trimethy...	2.386	2.250	2.845	2.562	2.467	2.766	2.966	3.263	2.688	12.46
90)	T	1,2-Dichlorobe...	1.220	1.146	1.485	1.306	1.278	1.394	1.496	1.734	1.382	13.57
91)	T	d-Limonene	0.937	0.883	1.147	1.025	1.046	1.162	1.214	1.291	1.088	12.84
92)	T	1,2-Dibromo-3-...	0.295	0.296	0.441	0.401	0.429	0.466	0.485	0.526	0.417	20.10
93)	T	n-Undecane	1.416	1.402	1.777	1.589	1.558	1.633	1.676	1.747	1.600	8.68
94)	T	1,2,4-Trichlor...	0.808	0.826	1.050	0.940	0.928	0.973	1.039	1.161	0.966	12.19
95)	T	Naphthalene	3.242	3.022	3.838	3.521	3.475	3.603	3.831	4.017	3.568	9.23
96)	T	n-Dodecane	1.632	1.515	1.880	1.777	1.765	1.836	1.917	2.002	1.790	8.78
97)	T	Hexachlorobuta...	0.472	0.478	0.593	0.532	0.519	0.556	0.594	0.670	0.552	12.05
98)	T	Cyclohexanone	0.755	0.834	0.846	0.808	0.815	1.045	1.063	1.092	0.907	14.91
99)	T	tert-Butylbenzene	2.347	2.275	2.769	2.506	2.410	2.702	2.885	3.206	2.638	11.91
100)	T	n-Butylbenzene	2.446	2.495	3.071	2.751	2.686	2.854	2.924	3.088	2.789	8.64

(#) = Out of Range

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: **S20-07240912**
 20ng/L Std. ID: **S20-08100904**
 200ng/L Std. ID: **S20-08100902**
 Dilution Factors:

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L): ICAL Points:	ICAL Concentrations (Primary Source)							
		5	50	250		0.025	0.05	0.025	0.050	0.25	0.125	0.25	0.50
		200ng/L	20ng/L	4ng/L		0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng	100ng
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

gem 8/14/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240912
20ng/L Std. ID: S20-08100904

200ng/L Std. ID: S20-08100902
Dilution Factors:

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
		5	50	250		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.

sem 8/14/09

Calibration Status Report MS09

Method Path : J:\MS09\Methods\
 Method File : R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 14 07:31:29 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS09\Data\2009_08\13\08130926.D
2	0.2	0	25	J:\MS09\Data\2009_08\13\08130927.D
3	0.5	1	25	J:\MS09\Data\2009_08\13\08130928.D
4	1.0	1	25	J:\MS09\Data\2009_08\13\08130929.D
5	5.0	5	25	J:\MS09\Data\2009_08\13\08130930.D
6	25	27	25	J:\MS09\Data\2009_08\13\08130931.D
7	50	54	25	J:\MS09\Data\2009_08\13\08130932.D
8	100	107	25	J:\MS09\Data\2009_08\13\08130933.D

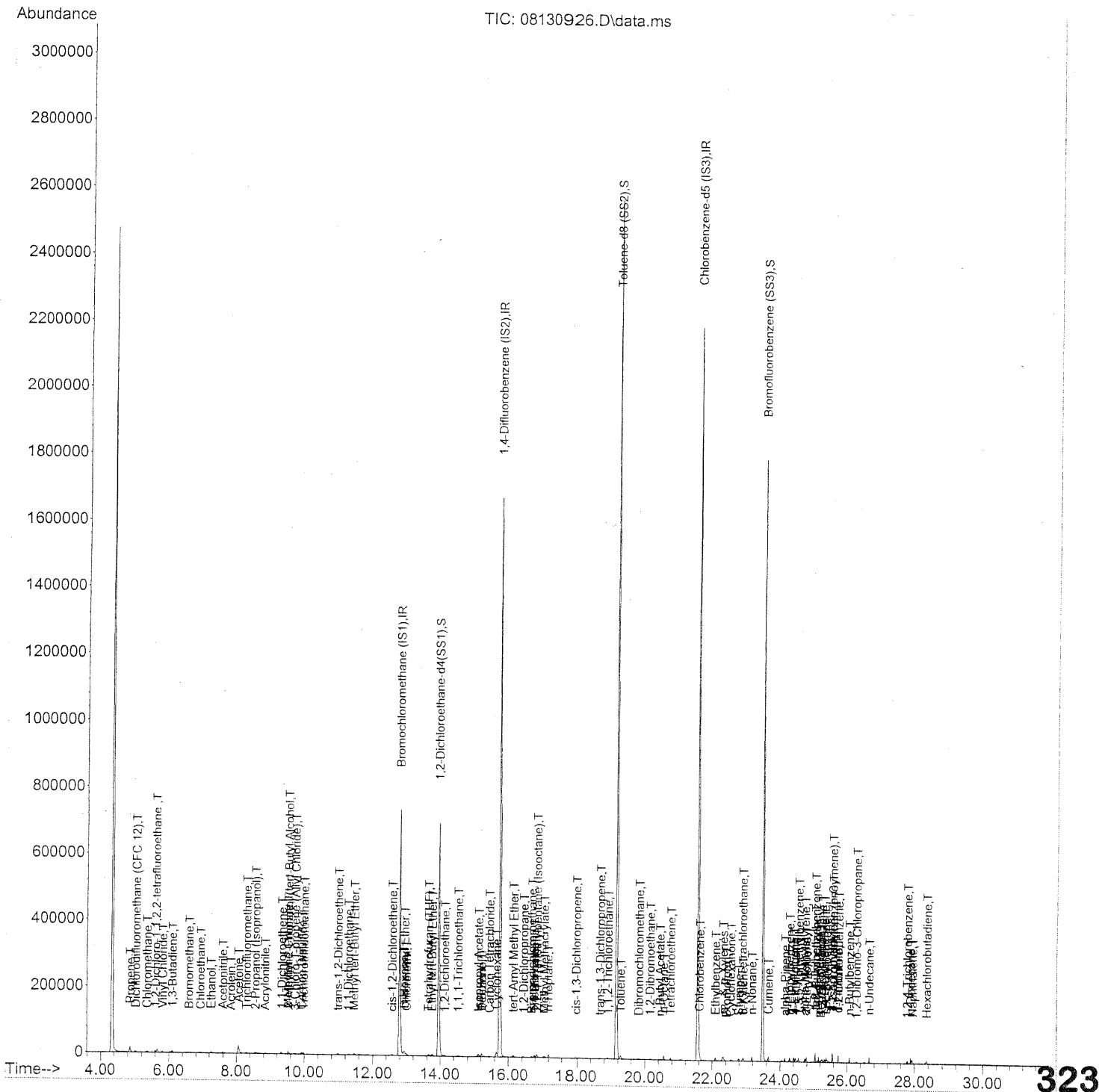
#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 14 07:29 2009	Aug 14 07:05 2009	14 Aug 2009 1:56
2	0.2	Aug 14 07:30 2009	Aug 14 07:14 2009	14 Aug 2009 2:38
3	0.5	Aug 14 07:30 2009	Aug 14 07:20 2009	14 Aug 2009 3:19
4	1.0	Aug 14 07:30 2009	Aug 14 07:21 2009	14 Aug 2009 4:01
5	5.0	Aug 14 07:30 2009	Aug 14 07:23 2009	14 Aug 2009 4:43
6	25	Aug 14 07:31 2009	Aug 14 07:26 2009	14 Aug 2009 5:24
7	50	Aug 14 07:31 2009	Aug 14 07:27 2009	14 Aug 2009 6:06
8	100	Aug 14 07:31 2009	Aug 14 07:28 2009	14 Aug 2009 6:47

R9081309.M Fri Aug 14 07:48:55 2009

em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130926.D
Acq On : 14 Aug 2009 1:56
Operator : EM
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-08130905/S20-07240912
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	388910	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1986864	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	961494	25.000	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4 (...)	13.95	65	693371	25.200	ng	-0.04
Spiked Amount	25.000					
			Recovery	=	100.80%	
57) Toluene-d8 (SS2)	19.14	98	2296672	24.144	ng	-0.02
Spiked Amount	25.000					
			Recovery	=	96.56%	
73) Bromofluorobenzene (SS3)	23.49	174	646809	22.617	ng	0.00
Spiked Amount	25.000					
			Recovery	=	90.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.87	42	3618	0.147	ng	98
3) Dichlorodifluoromethan...	5.03	85	4958	0.101	ng	# 88
4) Chloromethane	5.36	50	4388	0.120	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	5.61	135	2540	0.092	ng	85
6) Vinyl Chloride	5.81	62	4449	0.114	ng	88
7) 1,3-Butadiene	6.11	54	3356	0.119	ng	97
8) Bromomethane	6.60	94	2307	0.100	ng	99
9) Chloroethane	6.94	64	2024	0.103	ng	# 53
10) Ethanol	7.25	45	10733m	0.659	ng	
11) Acetonitrile	7.59	41	5267	0.143	ng	82
12) Acrolein	7.83	56	986	0.083	ng	87
13) Acetone	8.06	58	14865	0.803	ng	89
14) Trichlorofluoromethane	8.29	101	4018	0.094	ng	99
15) 2-Propanol (Isopropanol)	8.56	45	11494	0.236	ng	77
16) Acrylonitrile	8.84	53	1953	0.079	ng	89
17) 1,1-Dichloroethene	9.33	96	2785	0.128	ng	91
18) 2-Methyl-2-Propanol (t...	9.53	59	11686	0.213	ng	# 84
19) Methylene Chloride	9.53	84	3454	0.141	ng	90
20) 3-Chloro-1-propene (Al...	9.73	41	3161	0.119	ng	68
21) Trichlorotrifluoroethane	9.98	151	1761	0.091	ng	# 81
22) Carbon Disulfide	9.93	76	10199	0.122	ng	81
23) trans-1,2-Dichloroethene	10.99	61	3423	0.107	ng	87
24) 1,1-Dichloroethane	11.29	63	4712	0.121	ng	83
25) Methyl tert-Butyl Ether	11.46	73	7632	0.111	ng	94
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	12.57	61	3421	0.111	ng	88
29) Diisopropyl Ether	12.94	87	1922	0.088	ng	# 89
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.93	57	4846	0.113	ng	

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	3808	0.098	ng	92
34) Tetrahydrofuran (THF)	13.65	72	1329	0.100	ng	# 49
35) Ethyl tert-Butyl Ether	13.75	87	2842	0.097	ng	# 88
36) 1,2-Dichloroethane	14.14	62	2848	0.091	ng	# 63
38) 1,1,1-Trichloroethane	14.53	97	3702	0.102	ng	86
39) Isopropyl Acetate	15.13	61	2323	0.161	ng	# 40
40) 1-Butanol	15.23	56	2885	0.117	ng	# 48
41) Benzene	15.23	78	11726	0.111	ng	95
42) Carbon Tetrachloride	15.45	117	2792	0.090	ng	94
43) Cyclohexane	15.65	84	8323	0.210	ng	# 85
44) tert-Amyl Methyl Ether	16.14	73	7312	0.104	ng	95
45) 1,2-Dichloropropane	16.45	63	2391	0.107	ng	92
46) Bromodichloromethane	16.69	83	2661	0.087	ng	93
47) Trichloroethene	16.77	130	2951	0.109	ng	96
48) 1,4-Dioxane	16.78	88	1271	0.071	ng	# 58
49) 2,2,4-Trimethylpentane...	16.85	57	12314	0.120	ng	92
50) Methyl Methacrylate	17.07	100	553	0.056	ng	# 1
51) n-Heptane	17.21	71	2682	0.105	ng	93
52) cis-1,3-Dichloropropene	17.97	75	2905	0.078	ng	# 57
53) 4-Methyl-2-pentanone	18.04	58	915	N.D.		
54) trans-1,3-Dichloropropene	18.67	75	2439	0.075	ng	# 60
55) 1,1,2-Trichloroethane	18.90	97	1838	0.083	ng	99
58) Toluene	19.28	91	12428	0.107	ng	98
59) 2-Hexanone	19.68	43	1480	N.D.		
60) Dibromochloromethane	19.83	129	2204	0.084	ng	85
61) 1,2-Dibromoethane	20.15	107	1955	0.072	ng	94
62) n-Butyl Acetate	20.44	43	2958	0.053	ng	# 49
63) n-Octane	20.56	57	2356	0.104	ng	88
64) Tetrachloroethene	20.76	166	2562	0.083	ng	98
65) Chlorobenzene	21.62	112	7106	0.097	ng	98
66) Ethylbenzene	22.09	91	11683	0.092	ng	94
67) m- & p-Xylenes	22.32	91	17613	0.169	ng	99
68) Bromoform	22.42	173	1501	0.064	ng	# 65
69) Styrene	22.79	104	6011	0.078	ng	94
70) o-Xylene	22.92	91	9337	0.090	ng	95
71) n-Nonane	23.17	43	5669	0.112	ng	87
72) 1,1,2,2-Tetrachloroethane	22.89	83	3618	0.084	ng	92
74) Cumene	23.66	105	11820	0.086	ng	93
75) alpha-Pinene	24.15	93	5445	0.082	ng	99
76) n-Propylbenzene	24.28	91	14553	0.087	ng	93
77) 3-Ethyltoluene	24.41	105	11442	0.087	ng	100
78) 4-Ethyltoluene	24.46	105	12248	0.093	ng	95
79) 1,3,5-Trimethylbenzene	24.55	105	9904	0.091	ng	9

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EM 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	4543	0.074	ng	98
81) 2-Ethyltoluene	24.79	105	11719	0.085	ng	95
82) 1,2,4-Trimethylbenzene	25.05	105	9509	0.078	ng	100
83) n-Decane	25.15	57	5840	0.099	ng	89
84) Benzyl Chloride	25.22	91	6309	0.072	ng	92
85) 1,3-Dichlorobenzene	25.25	146	5071	0.079	ng	100
86) 1,4-Dichlorobenzene	25.33	146	5490	0.082	ng	97
87) sec-Butylbenzene	25.38	105	13671	0.089	ng	96
88) 4-Isopropyltoluene (p-...	25.56	119	11685	0.076	ng	96
89) 1,2,3-Trimethylbenzene	25.57	105	9819	0.079	ng	99
90) 1,2-Dichlorobenzene	25.75	146	4975	0.075	ng	99
91) d-Limonene	25.74	68	3927	0.081	ng	84
92) 1,2-Dibromo-3-Chloropr...	26.28	157	1250	0.067	ng	# 78
93) n-Undecane	26.65	57	5934	0.098	ng	93
94) 1,2,4-Trichlorobenzene	27.79	180	3482	0.081	ng	# 95
95) Naphthalene	27.94	128	13216	0.088	ng	98
96) n-Dodecane	27.89	57	6214	0.096	ng	91
97) Hexachlorobutadiene	28.36	225	1995	0.081	ng	96
98) Cyclohexanone	22.55	55	2844	0.081	ng	# 82
99) tert-Butylbenzene	25.05	119	9567	0.077	ng	93
100) n-Butylbenzene	26.07	91	10255	0.084	ng	99

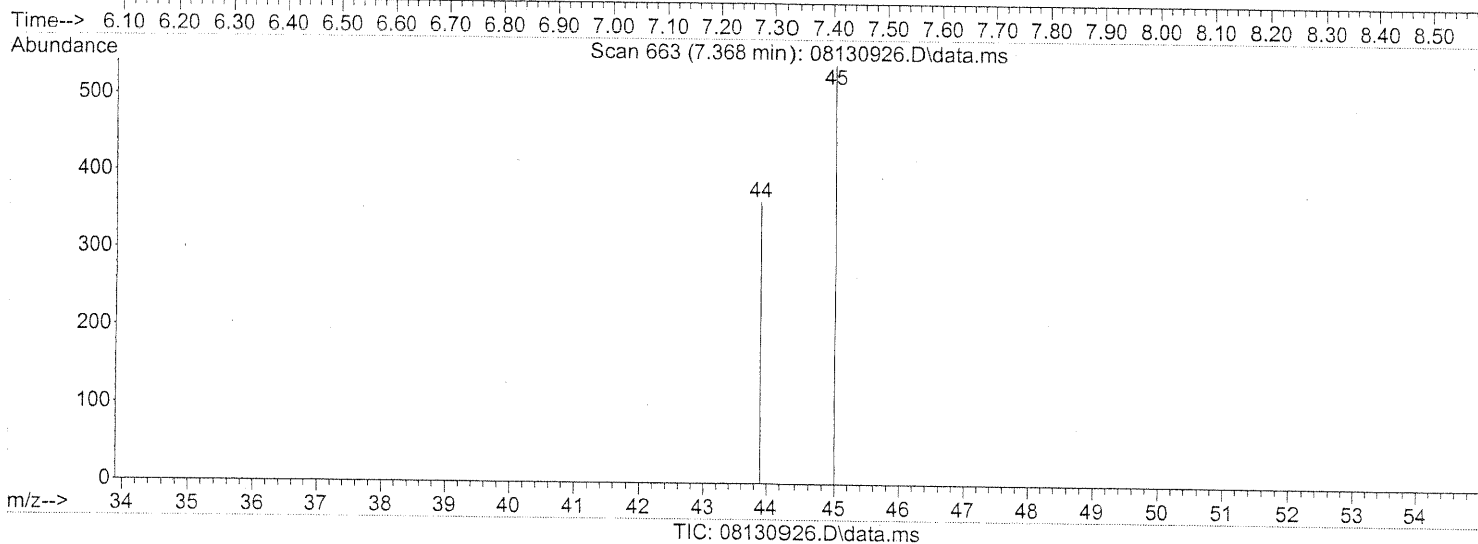
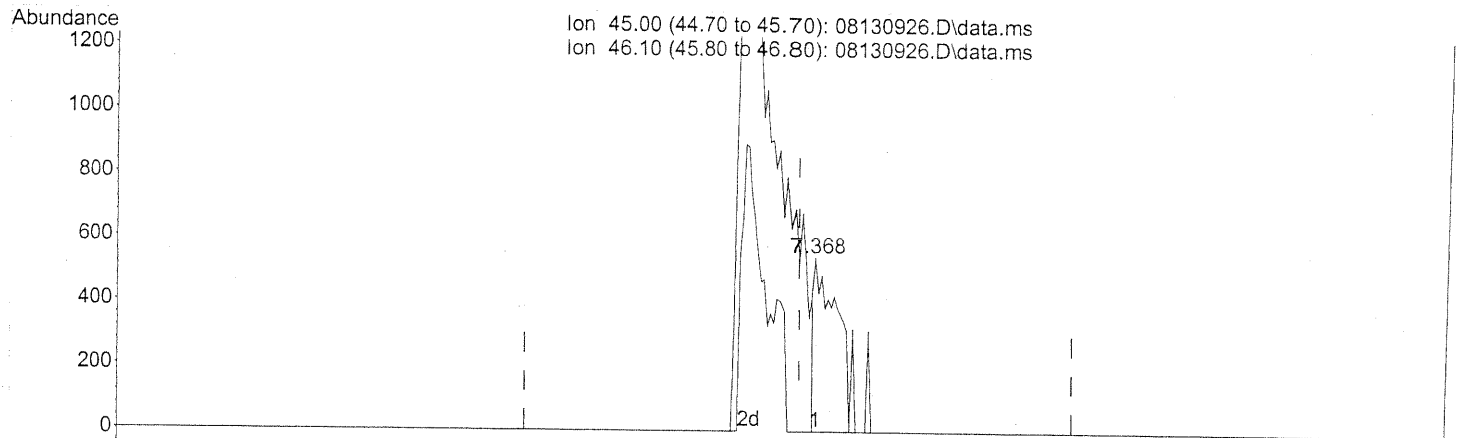
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Em 8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130926.D
Acq On : 14 Aug 2009 1:56
Operator : EM
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-08130905/S20-07240912
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:04:25 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.368min (+0.029) 0.10ng

response 1639

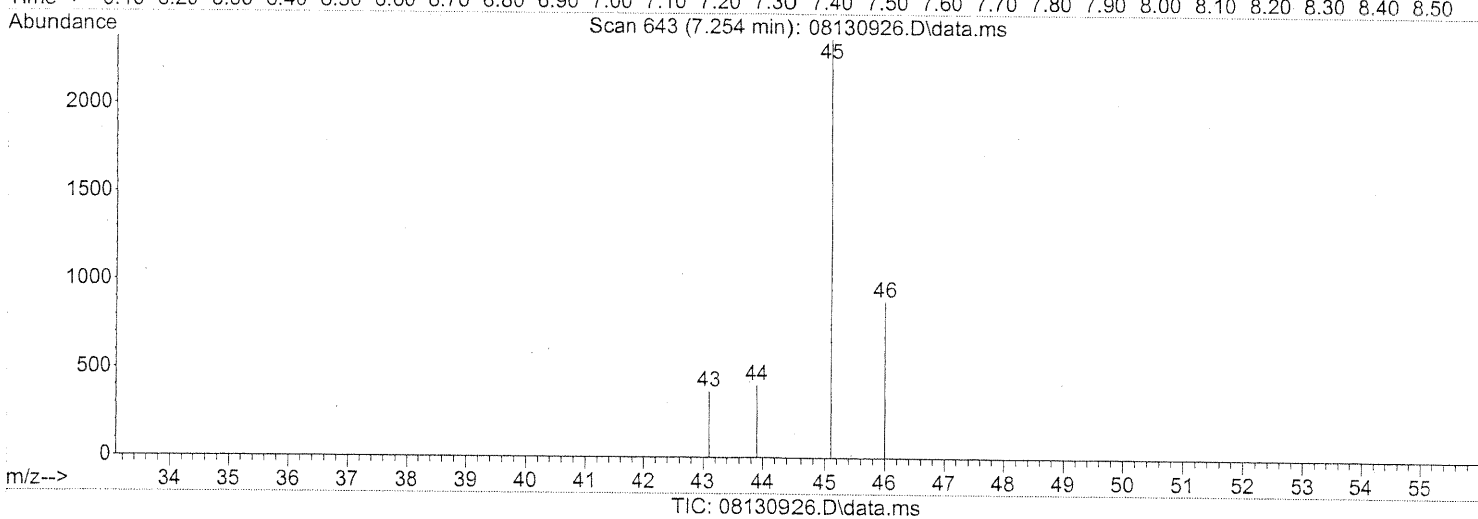
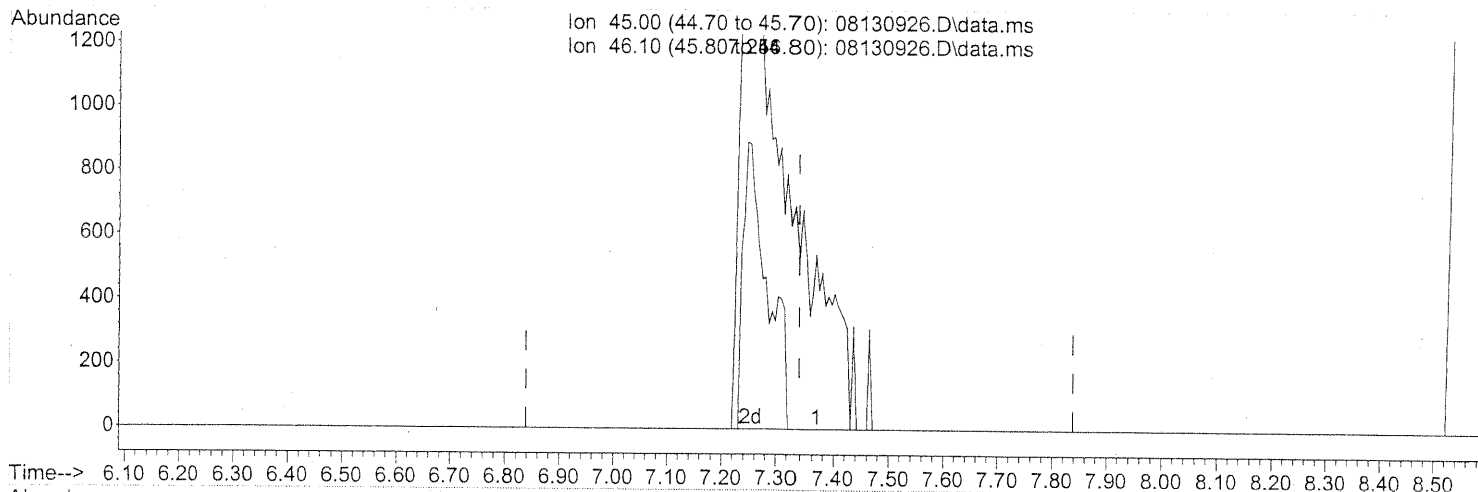
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:04:25 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.254min (-0.086) 0.66ng m
 response 10733

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

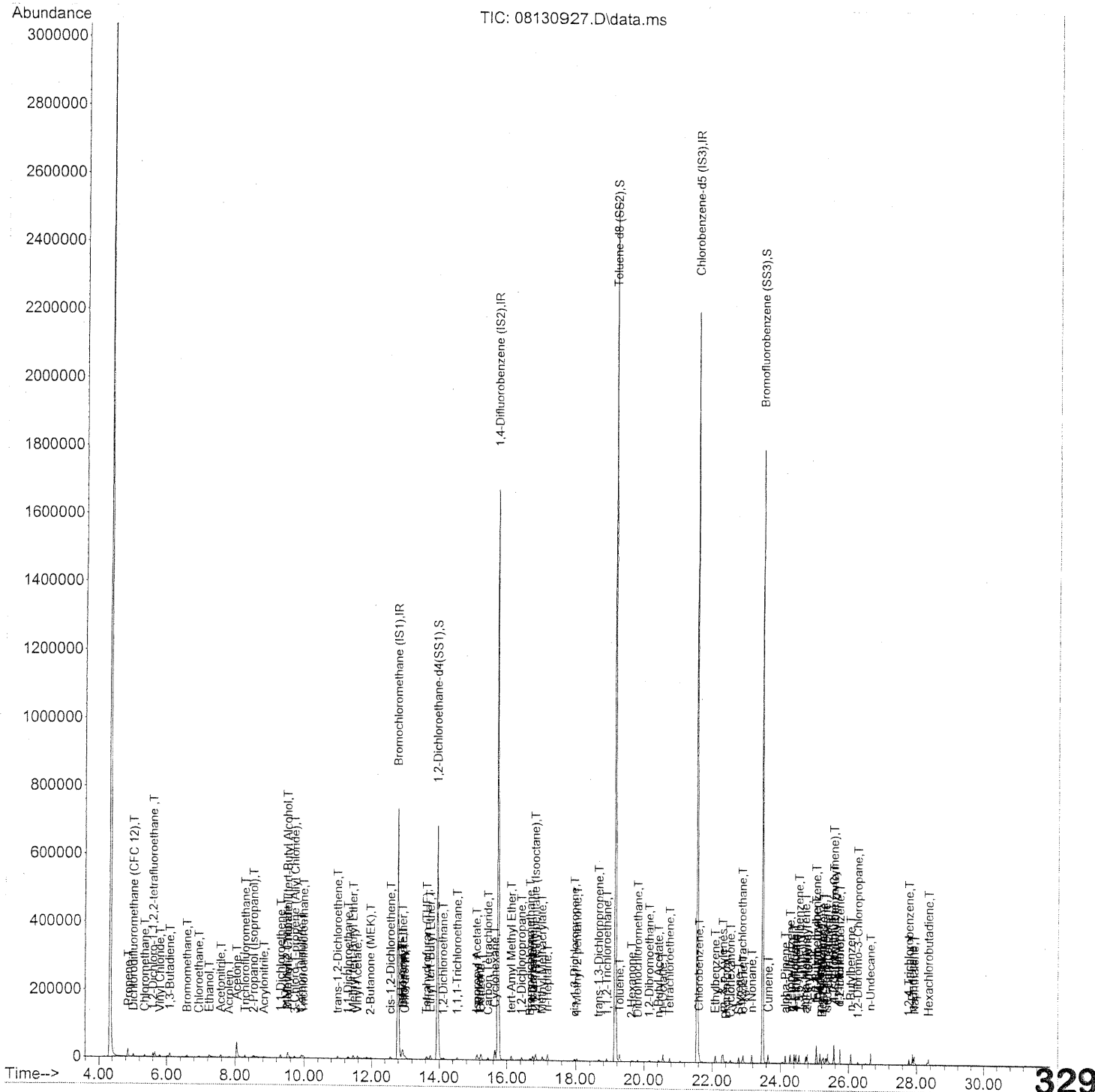
SP → IC
em 8/14/09

DA 8/15/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	387904	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1988065	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	969971	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	692264	25.225	ng	-0.03
Spiked Amount	25.000					
				Recovery	=	100.92%
57) Toluene-d8 (SS2)	19.14	98	2284146	23.803	ng	-0.02
Spiked Amount	25.000					
				Recovery	=	95.20%
73) Bromofluorobenzene (SS3)	23.49	174	650502	22.548	ng	0.00
Spiked Amount	25.000					
				Recovery	=	90.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.87	42	6837	0.279	ng	97
3) Dichlorodifluoromethan...	5.02	85	10147	0.208	ng	95
4) Chloromethane	5.36	50	8936	0.244	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	5244	0.191	ng	89
6) Vinyl Chloride	5.81	62	8752	0.224	ng	91
7) 1,3-Butadiene	6.10	54	6814	0.243	ng	94
8) Bromomethane	6.60	94	4286	0.186	ng	92
9) Chloroethane	6.94	64	4242	0.217	ng	84
10) Ethanol	7.24	45	21624	1.332	ng	85
11) Acetonitrile	7.58	41	10541	0.287	ng	86
12) Acrolein	7.82	56	2810	0.237	ng	96
13) Acetone	8.05	58	26843	1.453	ng	93
14) Trichlorofluoromethane	8.29	101	8048	0.189	ng	100
15) 2-Propanol (Isopropanol)	8.53	45	23904	0.492	ng	96
16) Acrylonitrile	8.83	53	5080	0.205	ng	92
17) 1,1-Dichloroethene	9.32	96	5237	0.242	ng	94
18) 2-Methyl-2-Propanol (t...	9.52	59	23137	0.423	ng	93
19) Methylene Chloride	9.52	84	5947	0.243	ng	88
20) 3-Chloro-1-propene (Al...	9.73	41	6616	0.251	ng	84
21) Trichlorotrifluoroethane	9.98	151	3591	0.186	ng	91
22) Carbon Disulfide	9.93	76	19471	0.234	ng	95
23) trans-1,2-Dichloroethene	10.99	61	7192	0.226	ng	85
24) 1,1-Dichloroethane	11.30	63	8927	0.230	ng	93
25) Methyl tert-Butyl Ether	11.45	73	14779	0.216	ng	98
26) Vinyl Acetate	11.58	86	1274	0.289	ng	# 1
27) 2-Butanone (MEK)	11.97	72	1592	0.113	ng	# 1
28) cis-1,2-Dichloroethene	12.57	61	6876	0.224	ng	90
29) Diisopropyl Ether	12.94	87	4063	0.186	ng	# 86
30) Ethyl Acetate	12.95	61	1611	0.175	ng	96
31) n-Hexane	12.93	57	9734	0.228	ng	8330

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.00	83	7826	0.202	ng	98
34) Tetrahydrofuran (THF)	13.64	72	3221	0.243	ng	# 69
35) Ethyl tert-Butyl Ether	13.75	87	5452	0.186	ng	# 80
36) 1,2-Dichloroethane	14.13	62	5503	0.177	ng	92
38) 1,1,1-Trichloroethane	14.53	97	7018	0.192	ng	98
39) Isopropyl Acetate	15.10	61	5649	0.390	ng	# 69
40) 1-Butanol	15.17	56	6339	0.257	ng	89
41) Benzene	15.22	78	21485	0.203	ng	96
42) Carbon Tetrachloride	15.45	117	6103	0.196	ng	91
43) Cyclohexane	15.65	84	16172	0.408	ng	86
44) tert-Amyl Methyl Ether	16.14	73	13999	0.200	ng	94
45) 1,2-Dichloropropane	16.43	63	4918	0.220	ng	99
46) Bromodichloromethane	16.69	83	5890	0.192	ng	95
47) Trichloroethene	16.77	130	5590	0.206	ng	98
48) 1,4-Dioxane	16.77	88	3080	0.173	ng	100
49) 2,2,4-Trimethylpentane...	16.85	57	23620	0.230	ng	93
50) Methyl Methacrylate	17.05	100	2700	0.272	ng	# 80
51) n-Heptane	17.20	71	5246	0.204	ng	91
52) cis-1,3-Dichloropropene	17.96	75	6183	0.166	ng	93
53) 4-Methyl-2-pentanone	18.03	58	3201	0.159	ng	70
54) trans-1,3-Dichloropropene	18.66	75	5739	0.175	ng	84
55) 1,1,2-Trichloroethane	18.90	97	4035	0.181	ng	90
58) Toluene	19.28	91	21913	0.187	ng	99
59) 2-Hexanone	19.64	43	6660	0.132	ng	82
60) Dibromochloromethane	19.82	129	4315	0.163	ng	96
61) 1,2-Dibromoethane	20.15	107	4442	0.163	ng	99
62) n-Butyl Acetate	20.43	43	8074	0.144	ng	86
63) n-Octane	20.55	57	4432	0.193	ng	95
64) Tetrachloroethene	20.75	166	5009	0.161	ng	96
65) Chlorobenzene	21.62	112	13897	0.188	ng	94
66) Ethylbenzene	22.09	91	22216	0.174	ng	99
67) m- & p-Xylenes	22.32	91	35625	0.338	ng	96
68) Bromoform	22.42	173	3262	0.139	ng	90
69) Styrene	22.78	104	12611	0.162	ng	95
70) o-Xylene	22.92	91	17434	0.166	ng	97
71) n-Nonane	23.17	43	10801	0.211	ng	93
72) 1,1,2,2-Tetrachloroethane	22.89	83	7219	0.165	ng	100
74) Cumene	23.66	105	22760	0.163	ng	98
75) alpha-Pinene	24.15	93	10911	0.164	ng	97
76) n-Propylbenzene	24.29	91	27992	0.167	ng	100
77) 3-Ethyltoluene	24.41	105	22341	0.169	ng	99
78) 4-Ethyltoluene	24.46	105	21950	0.166	ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	19048	0.173	ng	99

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	9096	0.148	ng	94
81) 2-Ethyltoluene	24.79	105	22138	0.160	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	18432	0.150	ng	99
83) n-Decane	25.15	57	11801	0.198	ng	93
84) Benzyl Chloride	25.22	91	12901	0.146	ng	92
85) 1,3-Dichlorobenzene	25.25	146	9910	0.153	ng	99
86) 1,4-Dichlorobenzene	25.33	146	10593	0.157	ng	99
87) sec-Butylbenzene	25.38	105	24768	0.161	ng	98
88) 4-Isopropyltoluene (p-...	25.56	119	22687	0.146	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	18683	0.149	ng	99
90) 1,2-Dichlorobenzene	25.74	146	9423	0.140	ng	99
91) d-Limonene	25.74	68	7469	0.153	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.27	157	2528	0.134	ng	79
93) n-Undecane	26.65	57	11857	0.194	ng	93
94) 1,2,4-Trichlorobenzene	27.79	180	7181	0.165	ng	94
95) Naphthalene	27.94	128	24854	0.164	ng	98
96) n-Dodecane	27.89	57	11636	0.179	ng	92
97) Hexachlorobutadiene	28.36	225	4076	0.164	ng	100
98) Cyclohexanone	22.54	55	6345	0.179	ng	# 80
99) tert-Butylbenzene	25.05	119	18711	0.150	ng	97
100) n-Butylbenzene	26.07	91	21106	0.172	ng	97

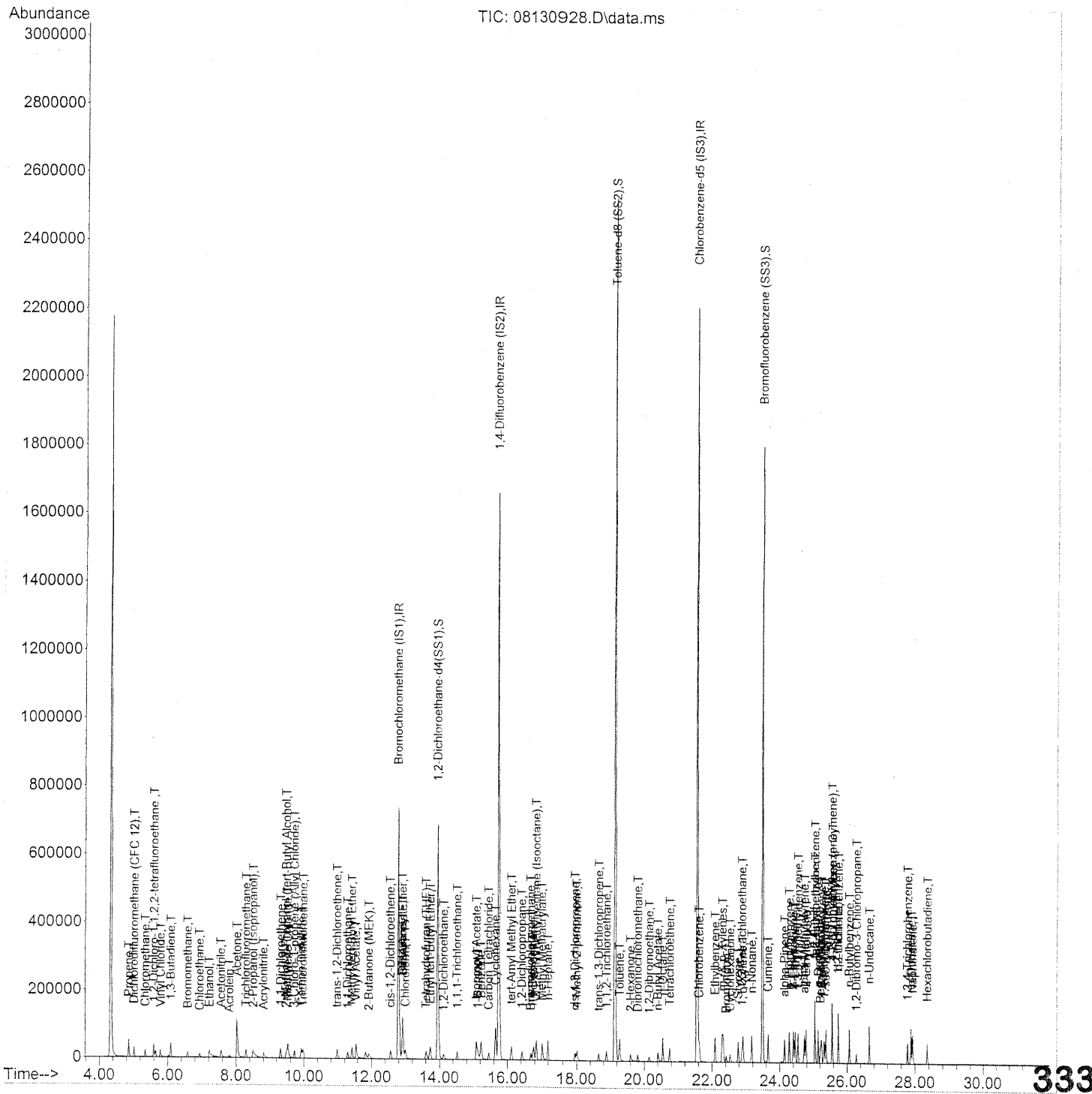
(#) = qualifier out of range (m) = manual integration (+) = signals summed

EM 8/14/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	387943	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1964748	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	963338	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	688763	25.095	ng	-0.03
Spiked Amount	25.000					
			Recovery	=	100.40%	
57) Toluene-d8 (SS2)	19.14	98	2270133	23.819	ng	-0.02
Spiked Amount	25.000					
			Recovery	=	95.28%	
73) Bromofluorobenzene (SS3)	23.49	174	649766	22.677	ng	0.00
Spiked Amount	25.000					
			Recovery	=	90.72%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	17385	0.710	ng	95
3) Dichlorodifluoromethan...	5.01	85	30715	0.629	ng	99
4) Chloromethane	5.35	50	27825	0.761	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	16234	0.590	ng	100
6) Vinyl Chloride	5.80	62	27174	0.697	ng	98
7) 1,3-Butadiene	6.09	54	22656	0.808	ng	97
8) Bromomethane	6.59	94	14465	0.629	ng	99
9) Chloroethane	6.94	64	13353	0.684	ng	98
10) Ethanol	7.23	45	60616	3.733	ng	99
11) Acetonitrile	7.56	41	31606	0.861	ng	97
12) Acrolein	7.80	56	8567	0.724	ng	99
13) Acetone	8.03	58	64613	3.498	ng	95
14) Trichlorofluoromethane	8.29	101	26206	0.616	ng	99
15) 2-Propanol (Isopropanol)	8.50	45	75804	1.560	ng	98
16) Acrylonitrile	8.80	53	18881	0.762	ng	99
17) 1,1-Dichloroethene	9.32	96	15523	0.716	ng	96
18) 2-Methyl-2-Propanol (t...	9.48	59	71705	1.310	ng	# 68
19) Methylene Chloride	9.52	84	16956	0.693	ng	88
20) 3-Chloro-1-propene (Al...	9.72	41	22154	0.839	ng	86
21) Trichlorotrifluoroethane	9.98	151	12159	0.630	ng	94
22) Carbon Disulfide	9.93	76	59708	0.717	ng	99
23) trans-1,2-Dichloroethene	10.98	61	23100	0.727	ng	91
24) 1,1-Dichloroethane	11.30	63	28384	0.733	ng	98
25) Methyl tert-Butyl Ether	11.42	73	45062	0.660	ng	96
26) Vinyl Acetate	11.56	86	8549	1.941	ng	# 31
27) 2-Butanone (MEK)	11.93	72	7703	0.547	ng	# 14
28) cis-1,2-Dichloroethene	12.56	61	22859	0.746	ng	91
29) Diisopropyl Ether	12.92	87	12722	0.581	ng	# 75
30) Ethyl Acetate	12.93	61	9081	0.984	ng	98
31) n-Hexane	12.92	57	30486	0.714	ng	93

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.01	83	25741	0.664	ng	99
34) Tetrahydrofuran (THF)	13.61	72	9662	0.728	ng	# 69
35) Ethyl tert-Butyl Ether	13.73	87	17600	0.600	ng	# 86
36) 1,2-Dichloroethane	14.13	62	18883	0.608	ng	98
38) 1,1,1-Trichloroethane	14.53	97	21567	0.598	ng	99
39) Isopropyl Acetate	15.09	61	18003	1.258	ng	# 76
40) 1-Butanol	15.14	56	24186	0.991	ng	# 5
41) Benzene	15.23	78	67490	0.644	ng	97
42) Carbon Tetrachloride	15.45	117	18399	0.598	ng	99
43) Cyclohexane	15.65	84	50652	1.293	ng	87
44) tert-Amyl Methyl Ether	16.12	73	43234	0.624	ng	98
45) 1,2-Dichloropropane	16.43	63	15929	0.721	ng	99
46) Bromodichloromethane	16.69	83	19513	0.644	ng	99
47) Trichloroethene	16.77	130	16351	0.611	ng	99
48) 1,4-Dioxane	16.75	88	11029	0.625	ng	88
49) 2,2,4-Trimethylpentane...	16.86	57	73776	0.727	ng	94
50) Methyl Methacrylate	17.03	100	10559	1.075	ng	90
51) n-Heptane	17.21	71	17902	0.706	ng	96
52) cis-1,3-Dichloropropene	17.95	75	21881	0.596	ng	96
53) 4-Methyl-2-pentanone	18.00	58	12377	0.624	ng	89
54) trans-1,3-Dichloropropene	18.66	75	20538	0.635	ng	94
55) 1,1,2-Trichloroethane	18.89	97	13863	0.630	ng	98
58) Toluene	19.28	91	66952	0.574	ng	99
59) 2-Hexanone	19.60	43	29124	0.580	ng	87
60) Dibromochloromethane	19.82	129	15336	0.585	ng	96
61) 1,2-Dibromoethane	20.15	107	14720	0.545	ng	97
62) n-Butyl Acetate	20.40	43	31166	0.559	ng	97
63) n-Octane	20.56	57	15118	0.663	ng	92
64) Tetrachloroethene	20.76	166	15982	0.518	ng	98
65) Chlorobenzene	21.62	112	41581	0.567	ng	100
66) Ethylbenzene	22.09	91	71057	0.560	ng	96
67) m- & p-Xylenes	22.31	91	109600	1.048	ng	99
68) Bromoform	22.42	173	11272	0.482	ng	99
69) Styrene	22.77	104	40825	0.529	ng	99
70) o-Xylene	22.92	91	56661	0.544	ng	99
71) n-Nonane	23.17	43	34926	0.686	ng	91
72) 1,1,2,2-Tetrachloroethane	22.89	83	24083	0.556	ng	98
74) Cumene	23.65	105	70945	0.513	ng	98
75) alpha-Pinene	24.15	93	33531	0.507	ng	99
76) n-Propylbenzene	24.28	91	88210	0.529	ng	99
77) 3-Ethyltoluene	24.40	105	69045	0.526	ng	98
78) 4-Ethyltoluene	24.46	105	70642	0.537	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	57676	0.527	ng	100

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	29532	0.482	ng	96
81) 2-Ethyltoluene	24.79	105	70128	0.510	ng	98
82) 1,2,4-Trimethylbenzene	25.05	105	56820	0.464	ng	97
83) n-Decane	25.15	57	35901	0.607	ng	95
84) Benzyl Chloride	25.22	91	42984	0.490	ng	98
85) 1,3-Dichlorobenzene	25.25	146	32555	0.507	ng	99
86) 1,4-Dichlorobenzene	25.33	146	33227	0.496	ng	100
87) sec-Butylbenzene	25.38	105	80257	0.524	ng	98
88) 4-Isopropyltoluene (p-...	25.56	119	71025	0.460	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	58655	0.470	ng	99
90) 1,2-Dichlorobenzene	25.75	146	30332	0.454	ng	100
91) d-Limonene	25.74	68	24087	0.495	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.27	157	9351	0.498	ng	89
93) n-Undecane	26.65	57	37313	0.616	ng	95
94) 1,2,4-Trichlorobenzene	27.79	180	22652	0.526	ng	99
95) Naphthalene	27.94	128	78387	0.522	ng	100
96) n-Dodecane	27.89	57	35864	0.554	ng	97
97) Hexachlorobutadiene	28.36	225	12566	0.510	ng	97
98) Cyclohexanone	22.53	55	15980	0.454	ng	92
99) tert-Butylbenzene	25.05	119	56558	0.457	ng	100
100) n-Butylbenzene	26.07	91	64485	0.529	ng	98

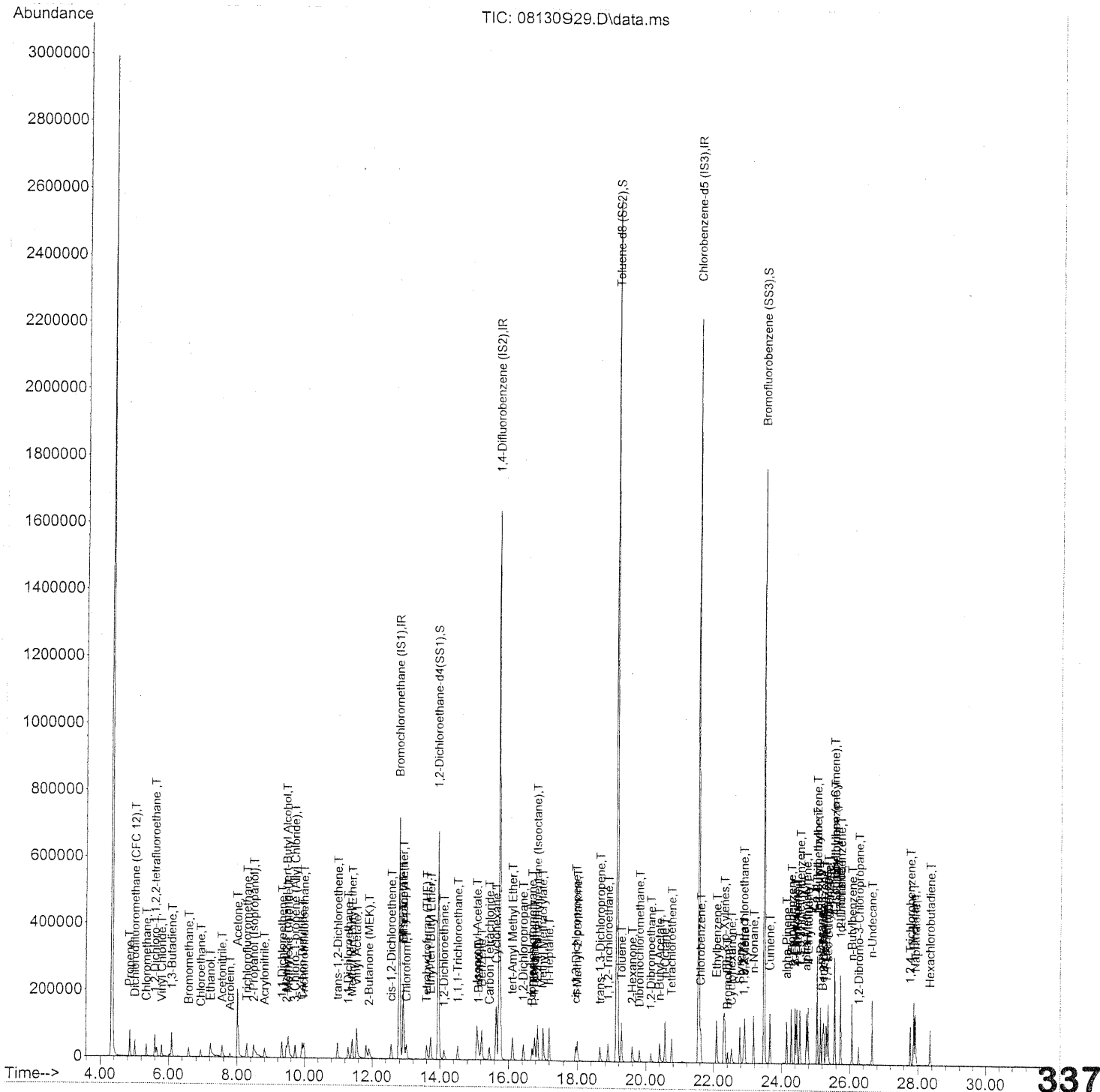
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Em 8/14/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130929.D
Acq On : 14 Aug 2009 4:01
Operator : EM
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100904
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130929.D
 Acq On : 14 Aug 2009 4:01
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	385393	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1968754	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	961740	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	684680	25.111	ng	-0.03
Spiked Amount	25.000		Recovery	=	100.44%	
57) Toluene-d8 (SS2)	19.14	98	2283397	23.998	ng	-0.02
Spiked Amount	25.000		Recovery	=	96.00%	
73) Bromofluorobenzene (SS3)	23.49	174	645460	22.564	ng	0.00
Spiked Amount	25.000		Recovery	=	90.24%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	29829	1.227	ng	97
3) Dichlorodifluoromethan...	5.01	85	52865	1.090	ng	99
4) Chloromethane	5.35	50	47868	1.317	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	28143	1.030	ng	98
6) Vinyl Chloride	5.80	62	46770	1.207	ng	98
7) 1,3-Butadiene	6.09	54	39034	1.402	ng	96
8) Bromomethane	6.59	94	24199	1.059	ng	99
9) Chloroethane	6.94	64	23852	1.231	ng	99
10) Ethanol	7.22	45	108628	6.734	ng	100
11) Acetonitrile	7.56	41	56154	1.539	ng	98
12) Acrolein	7.80	56	15400	1.309	ng	97
13) Acetone	8.01	58	112407	6.126	ng	94
14) Trichlorofluoromethane	8.29	101	45022	1.065	ng	99
15) 2-Propanol (Isopropanol)	8.48	45	135858	2.814	ng	99
16) Acrylonitrile	8.80	53	34799	1.414	ng	99
17) 1,1-Dichloroethene	9.32	96	26402	1.227	ng	95
18) 2-Methyl-2-Propanol (t...	9.46	59	127946	2.353	ng	95
19) Methylene Chloride	9.52	84	28073	1.155	ng	86
20) 3-Chloro-1-propene (Al...	9.72	41	39535	1.508	ng	89
21) Trichlorotrifluoroethane	9.98	151	20891	1.090	ng	95
22) Carbon Disulfide	9.93	76	102252	1.236	ng	98
23) trans-1,2-Dichloroethene	10.99	61	40695	1.289	ng	93
24) 1,1-Dichloroethane	11.30	63	48687	1.265	ng	98
25) Methyl tert-Butyl Ether	11.42	73	79993	1.179	ng	96
26) Vinyl Acetate	11.56	86	17582	4.017	ng	# 44
27) 2-Butanone (MEK)	11.91	72	15476	1.106	ng	# 70
28) cis-1,2-Dichloroethene	12.57	61	38880	1.276	ng	94
29) Diisopropyl Ether	12.91	87	23217	1.067	ng	# 79
30) Ethyl Acetate	12.91	61	17295	1.887	ng	98
31) n-Hexane	12.92	57	51322	1.211	ng	

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130929.D
 Acq On : 14 Aug 2009 4:01
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.01	83	44169	1.147	ng	99
34) Tetrahydrofuran (THF)	13.61	72	18493	1.402	ng	# 78
35) Ethyl tert-Butyl Ether	13.73	87	32059	1.099	ng	# 88
36) 1,2-Dichloroethane	14.13	62	33602	1.089	ng	100
38) 1,1,1-Trichloroethane	14.53	97	38262	1.060	ng	99
39) Isopropyl Acetate	15.09	61	33761	2.355	ng	# 85
40) 1-Butanol	15.13	56	47102	1.925	ng	# 74
41) Benzene	15.23	78	113746	1.083	ng	99
42) Carbon Tetrachloride	15.46	117	32803	1.064	ng	98
43) Cyclohexane	15.65	84	88044	2.243	ng	87
44) tert-Amyl Methyl Ether	16.11	73	76135	1.097	ng	97
45) 1,2-Dichloropropane	16.43	63	28251	1.276	ng	100
46) Bromodichloromethane	16.69	83	33986	1.120	ng	99
47) Trichloroethene	16.77	130	28512	1.063	ng	100
48) 1,4-Dioxane	16.74	88	20845	1.180	ng	92
49) 2,2,4-Trimethylpentane...	16.85	57	130464	1.282	ng	93
50) Methyl Methacrylate	17.02	100	20121	2.044	ng	# 88
51) n-Heptane	17.20	71	31494	1.239	ng	96
52) cis-1,3-Dichloropropene	17.95	75	38638	1.049	ng	99
53) 4-Methyl-2-pentanone	18.00	58	24206	1.218	ng	89
54) trans-1,3-Dichloropropene	18.65	75	38043	1.174	ng	99
55) 1,1,2-Trichloroethane	18.89	97	24731	1.121	ng	97
58) Toluene	19.28	91	119238	1.024	ng	99
59) 2-Hexanone	19.60	43	55664	1.111	ng	92
60) Dibromochloromethane	19.82	129	27040	1.032	ng	99
61) 1,2-Dibromoethane	20.15	107	26630	0.987	ng	99
62) n-Butyl Acetate	20.40	43	61529	1.105	ng	98
63) n-Octane	20.56	57	26993	1.186	ng	92
64) Tetrachloroethene	20.75	166	28187	0.915	ng	99
65) Chlorobenzene	21.62	112	73763	1.007	ng	100
66) Ethylbenzene	22.09	91	127246	1.005	ng	97
67) m- & p-Xylenes	22.32	91	194401	1.861	ng	99
68) Bromoform	22.41	173	20518	0.879	ng	99
69) Styrene	22.77	104	73446	0.954	ng	100
70) o-Xylene	22.92	91	100172	0.963	ng	98
71) n-Nonane	23.17	43	62203	1.225	ng	92
72) 1,1,2,2-Tetrachloroethane	22.89	83	42899	0.991	ng	100
74) Cumene	23.65	105	125520	0.908	ng	97
75) alpha-Pinene	24.15	93	59580	0.902	ng	99
76) n-Propylbenzene	24.28	91	157275	0.945	ng	98
77) 3-Ethyltoluene	24.40	105	123089	0.940	ng	99
78) 4-Ethyltoluene	24.46	105	124771	0.950	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	103623	0.948	ng	99

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130929.D
 Acq On : 14 Aug 2009 4:01
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	53658	0.878	ng	96
81) 2-Ethyltoluene	24.79	105	124584	0.908	ng	97
82) 1,2,4-Trimethylbenzene	25.05	105	102293	0.837	ng	100
83) n-Decane	25.15	57	64455	1.092	ng	94
84) Benzyl Chloride	25.21	91	81497	0.930	ng	98
85) 1,3-Dichlorobenzene	25.25	146	56441	0.880	ng	100
86) 1,4-Dichlorobenzene	25.33	146	59032	0.883	ng	98
87) sec-Butylbenzene	25.38	105	141772	0.928	ng	98
88) 4-Isopropyltoluene (p-...	25.56	119	127195	0.826	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	105475	0.847	ng	99
90) 1,2-Dichlorobenzene	25.74	146	53268	0.799	ng	100
91) d-Limonene	25.74	68	42966	0.885	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.27	157	16960	0.906	ng	91
93) n-Undecane	26.65	57	66615	1.102	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	40513	0.942	ng	100
95) Naphthalene	27.94	128	143580	0.957	ng	99
96) n-Dodecane	27.89	57	67663	1.047	ng	94
97) Hexachlorobutadiene	28.36	225	22500	0.914	ng	97
98) Cyclohexanone	22.52	55	30464	0.867	ng	93
99) tert-Butylbenzene	25.05	119	102193	0.827	ng	100
100) n-Butylbenzene	26.06	91	115342	0.948	ng	99

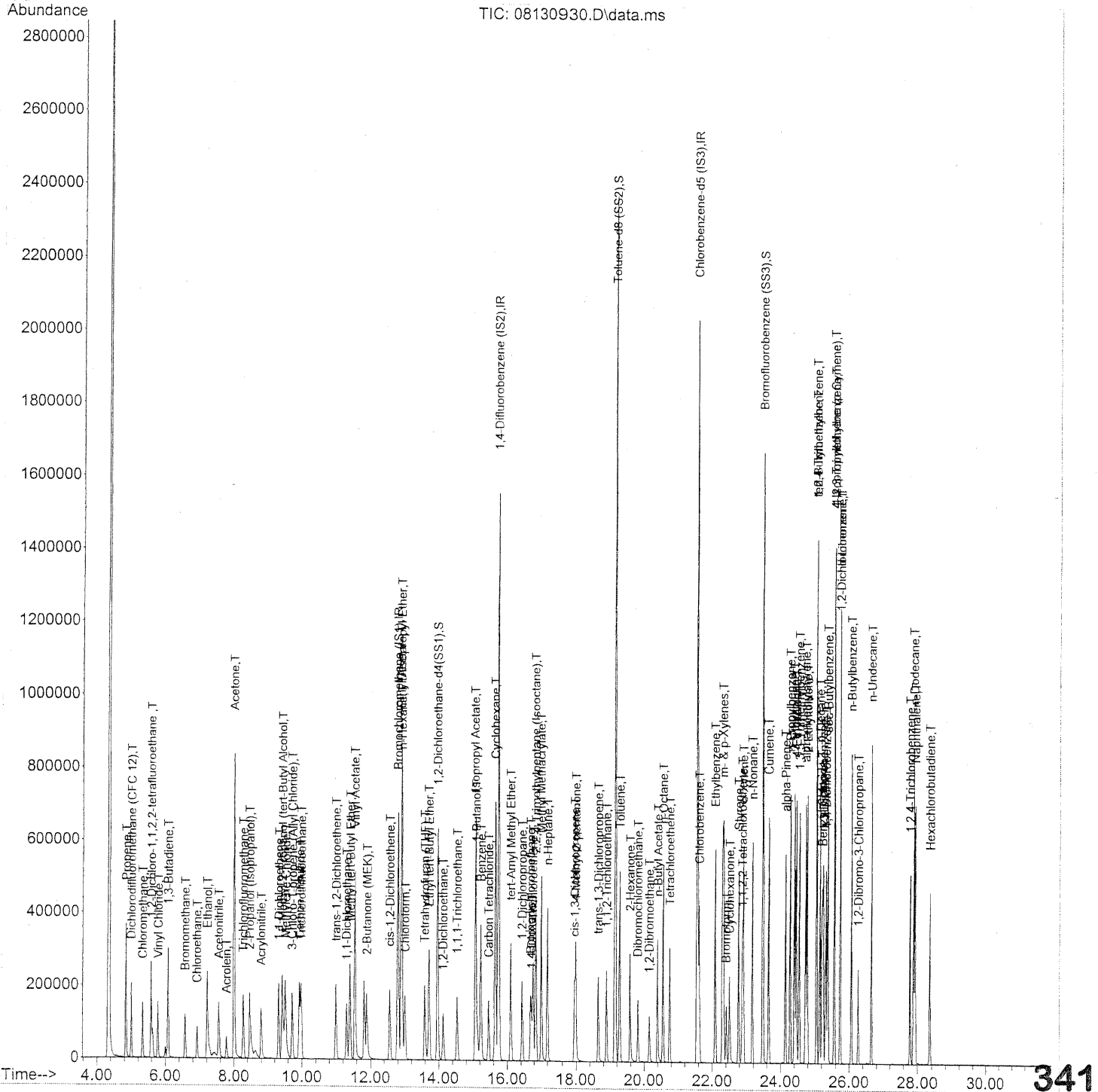
(#) = qualifier out of range (m) = manual integration (+) = signals summed

em 8/14/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	356661	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1839686	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	890260	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.96	65	631936	25.044	ng	-0.03
Spiked Amount	25.000					
				Recovery =		100.16%
57) Toluene-d8 (SS2)	19.15	98	2108383	23.938	ng	-0.01
Spiked Amount	25.000					
				Recovery =		95.76%
73) Bromofluorobenzene (SS3)	23.49	174	597126	22.551	ng	0.00
Spiked Amount	25.000					
				Recovery =		90.20%

Target Compounds

						Qvalue
2) Propene	4.84	42	170359	7.571	ng	96
3) Dichlorodifluoromethan...	5.00	85	230084	5.124	ng	99
4) Chloromethane	5.33	50	205078	6.099	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	119794	4.737	ng	99
6) Vinyl Chloride	5.79	62	201673	5.626	ng	98
7) 1,3-Butadiene	6.08	54	174352	6.764	ng	98
8) Bromomethane	6.57	94	105980	5.012	ng	99
9) Chloroethane	6.92	64	101343	5.650	ng	100
10) Ethanol	7.22	45	503955m	33.755	ng	
11) Acetonitrile	7.55	41	248065	7.348	ng	100
12) Acrolein	7.78	56	72285	6.641	ng	98
13) Acetone	8.00	58	487378	28.701	ng	91
14) Trichlorofluoromethane	8.28	101	194921	4.983	ng	99
15) 2-Propanol (Isopropanol)	8.46	45	476882m	10.673	ng	
16) Acrylonitrile	8.79	53	169954	7.460	ng	97
17) 1,1-Dichloroethene	9.32	96	116215	5.835	ng	97
18) 2-Methyl-2-Propanol (t...	9.43	59	580085	11.527	ng	96
19) Methylene Chloride	9.53	84	121460	5.402	ng	88
20) 3-Chloro-1-propene (Al...	9.72	41	183785	7.574	ng	88
21) Trichlorotrifluoroethane	9.98	151	93260	5.256	ng	96
22) Carbon Disulfide	9.93	76	452470	5.908	ng	98
23) trans-1,2-Dichloroethene	10.99	61	180824	6.190	ng	92
24) 1,1-Dichloroethane	11.30	63	216980	6.093	ng	99
25) Methyl tert-Butyl Ether	11.40	73	365953	5.827	ng	96
26) Vinyl Acetate	11.54	86	100963	24.928	ng	# 65
27) 2-Butanone (MEK)	11.89	72	83061	6.413	ng	# 77
28) cis-1,2-Dichloroethene	12.57	61	171418	6.081	ng	93
29) Diisopropyl Ether	12.90	87	101448	5.039	ng	# 66
30) Ethyl Acetate	12.90	61	91320	10.764	ng	99
31) n-Hexane	12.92	57	224482	5.722	ng	

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.01	83	192914	5.415	ng	99
34) Tetrahydrofuran (THF)	13.58	72	83814	6.867	ng	# 86
35) Ethyl tert-Butyl Ether	13.71	87	142829	5.293	ng	# 86
36) 1,2-Dichloroethane	14.13	62	150902	5.284	ng	99
38) 1,1,1-Trichloroethane	14.53	97	168717	5.000	ng	99
39) Isopropyl Acetate	15.06	61	158534	11.834	ng	# 79
40) 1-Butanol	15.09	56	248323	10.863	ng	81
41) Benzene	15.23	78	489432	4.989	ng	98
42) Carbon Tetrachloride	15.46	117	142799	4.955	ng	100
43) Cyclohexane	15.65	84	392518	10.699	ng	89
44) tert-Amyl Methyl Ether	16.10	73	352122	5.430	ng	98
45) 1,2-Dichloropropane	16.43	63	124973	6.043	ng	98
46) Bromodichloromethane	16.69	83	155746	5.492	ng	98
47) Trichloroethene	16.77	130	122841	4.899	ng	99
48) 1,4-Dioxane	16.72	88	98401	5.959	ng	91
49) 2,2,4-Trimethylpentane...	16.85	57	566857	5.963	ng	93
50) Methyl Methacrylate	17.02	100	99872	10.855	ng	90
51) n-Heptane	17.21	71	134268	5.652	ng	95
52) cis-1,3-Dichloropropene	17.95	75	186847	5.431	ng	98
53) 4-Methyl-2-pentanone	17.99	58	119233	6.420	ng	95
54) trans-1,3-Dichloropropene	18.64	75	186516	6.159	ng	98
55) 1,1,2-Trichloroethane	18.88	97	112218	5.445	ng	99
58) Toluene	19.28	91	521746	4.839	ng	100
59) 2-Hexanone	19.58	43	278990	6.017	ng	99
60) Dibromochloromethane	19.82	129	125108	5.160	ng	99
61) 1,2-Dibromoethane	20.15	107	123637	4.951	ng	100
62) n-Butyl Acetate	20.39	43	322004	6.246	ng	98
63) n-Octane	20.56	57	120268	5.709	ng	91
64) Tetrachloroethene	20.75	166	122324	4.291	ng	100
65) Chlorobenzene	21.62	112	321850	4.745	ng	99
66) Ethylbenzene	22.09	91	567585	4.841	ng	98
67) m- & p-Xylenes	22.32	91	871075	9.010	ng	100
68) Bromoform	22.41	173	97277	4.503	ng	100
69) Styrene	22.77	104	344065	4.826	ng	99
70) o-Xylene	22.92	91	444727	4.618	ng	99
71) n-Nonane	23.17	43	272588	5.797	ng	93
72) 1,1,2,2-Tetrachloroethane	22.88	83	199967	4.992	ng	100
74) Cumene	23.65	105	562278	4.396	ng	98
75) alpha-Pinene	24.15	93	276329	4.521	ng	99
76) n-Propylbenzene	24.28	91	700875	4.549	ng	99
77) 3-Ethyltoluene	24.40	105	559902	4.619	ng	98
78) 4-Ethyltoluene	24.46	105	553680	4.552	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	455198	4.500	ng	100

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	253262	4.476	ng	99
81) 2-Ethyltoluene	24.79	105	552087	4.348	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	462116	4.084	ng	99
83) n-Decane	25.15	57	285891	5.231	ng	94
84) Benzyl Chloride	25.21	91	398762	4.917	ng	98
85) 1,3-Dichlorobenzene	25.25	146	251311	4.232	ng	100
86) 1,4-Dichlorobenzene	25.32	146	256766	4.150	ng	100
87) sec-Butylbenzene	25.38	105	629377	4.449	ng	99
88) 4-Isopropyltoluene (p-...	25.56	119	574902	4.031	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	470067	4.080	ng	98
90) 1,2-Dichlorobenzene	25.75	146	241180	3.907	ng	100
91) d-Limonene	25.74	68	203082	4.518	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.26	157	84105	4.852	ng	96
93) n-Undecane	26.65	57	302353	5.403	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	185058	4.646	ng	99
95) Naphthalene	27.94	128	655899	4.724	ng	99
96) n-Dodecane	27.89	57	311207	5.204	ng	96
97) Hexachlorobutadiene	28.36	225	101578	4.458	ng	98
98) Cyclohexanone	22.51	55	142237	4.374	ng	94
99) tert-Butylbenzene	25.05	119	454889	3.978	ng	99
100) n-Butylbenzene	26.06	91	521247	4.628	ng	99

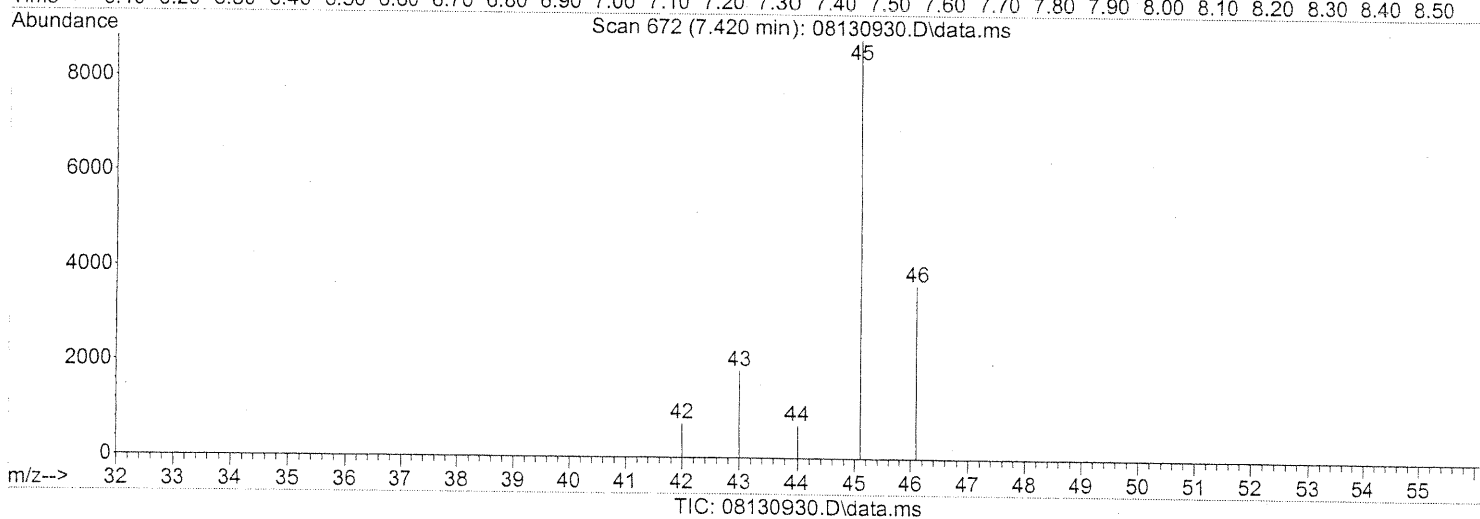
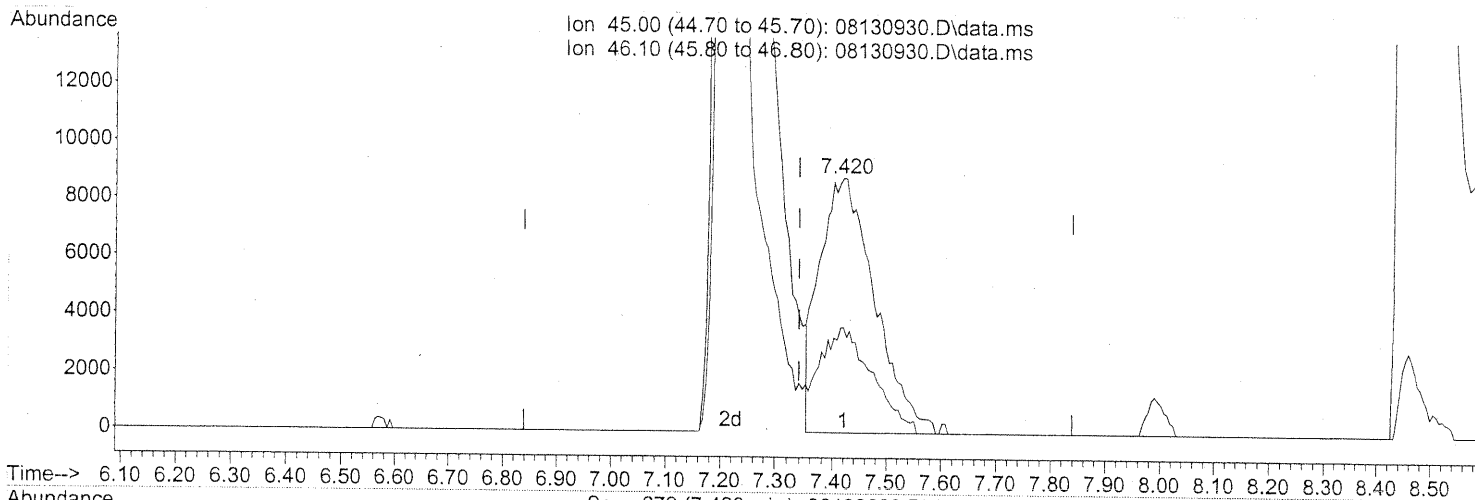
(#) = qualifier out of range (m) = manual integration (+) = signals summed

EM 8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.420min (+0.080) 4.20ng
 response 62719

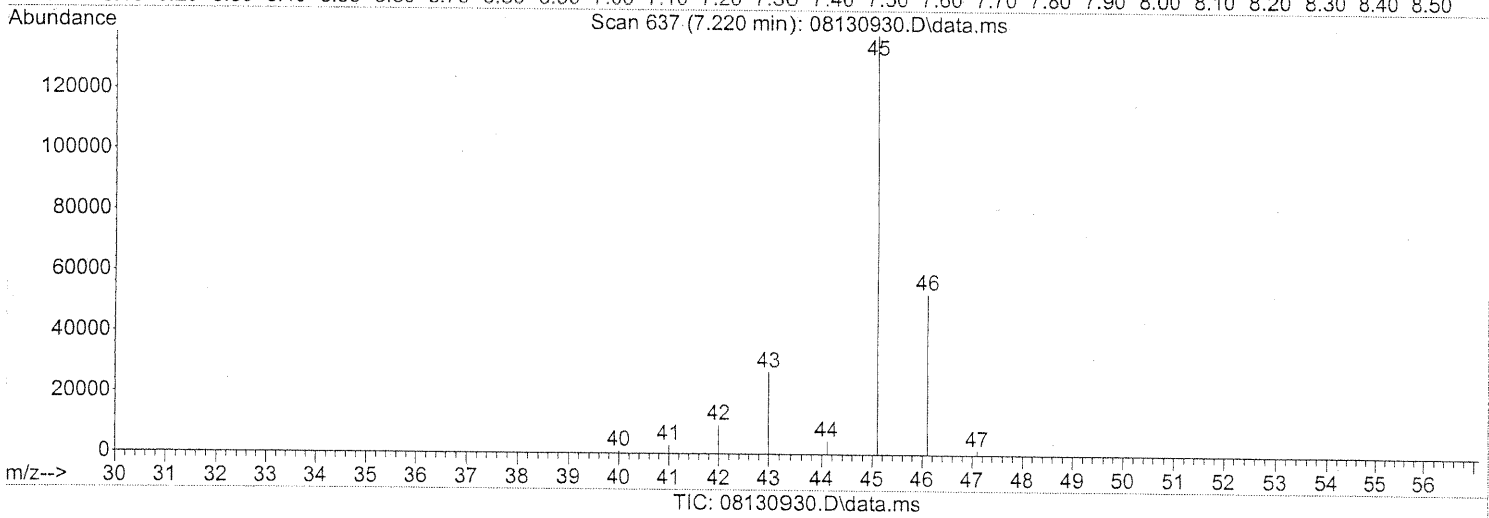
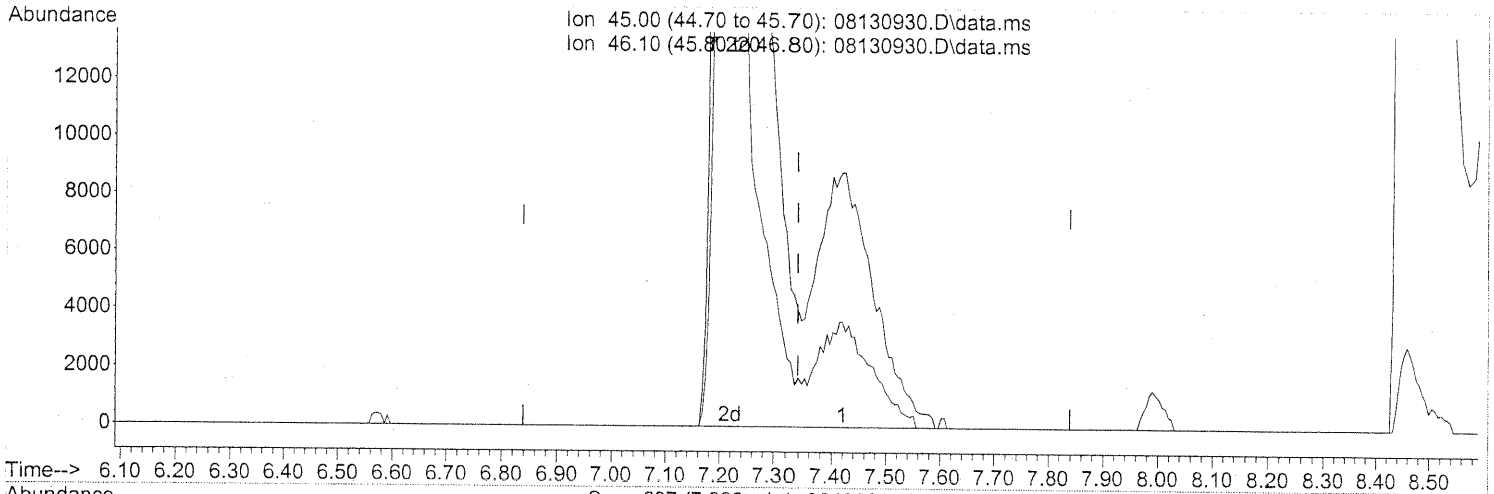
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.29
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130930.D
Acq On : 14 Aug 2009 4:43
Operator : EM
Sample : 5ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100904
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)
7.220min (-0.120) 33.76ng m
response 503955

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	4.77#
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
Em 8/14/09

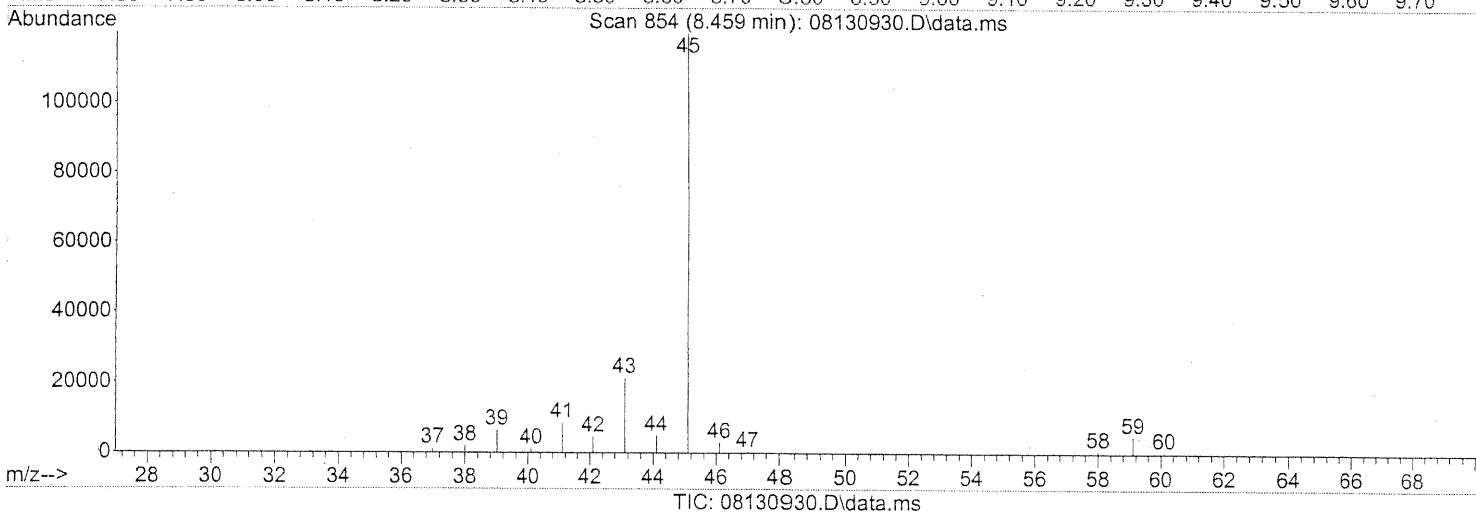
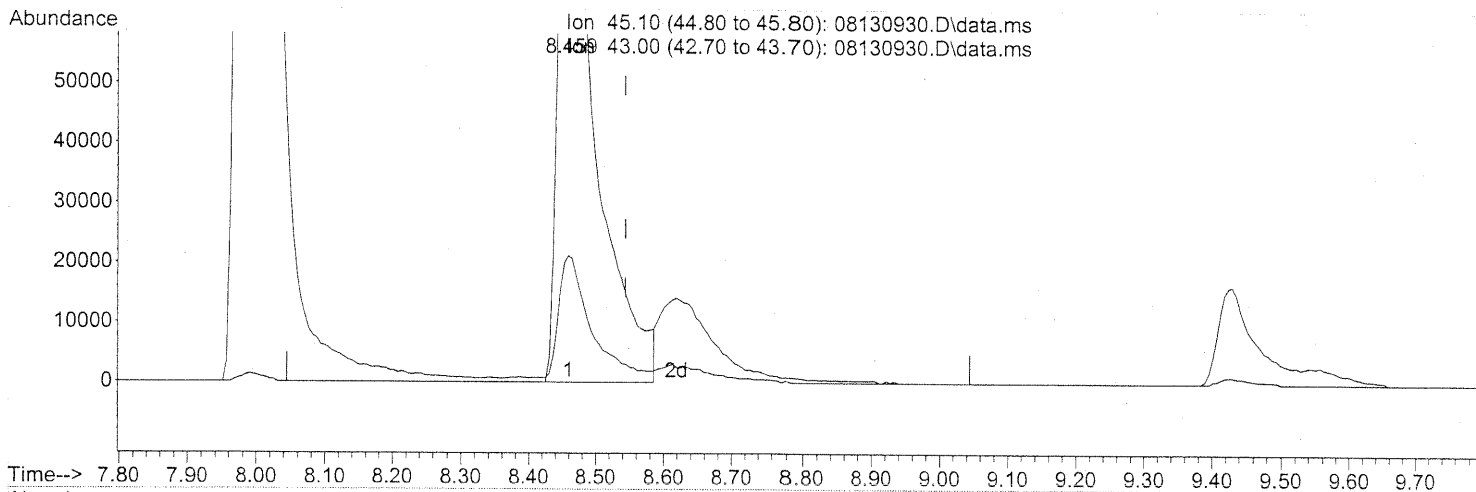
BA 8/15/09

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Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130930.D
Acq On : 14 Aug 2009 4:43
Operator : EM
Sample : 5ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100904
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

8.459min (-0.086) 8.88ng

response 396677

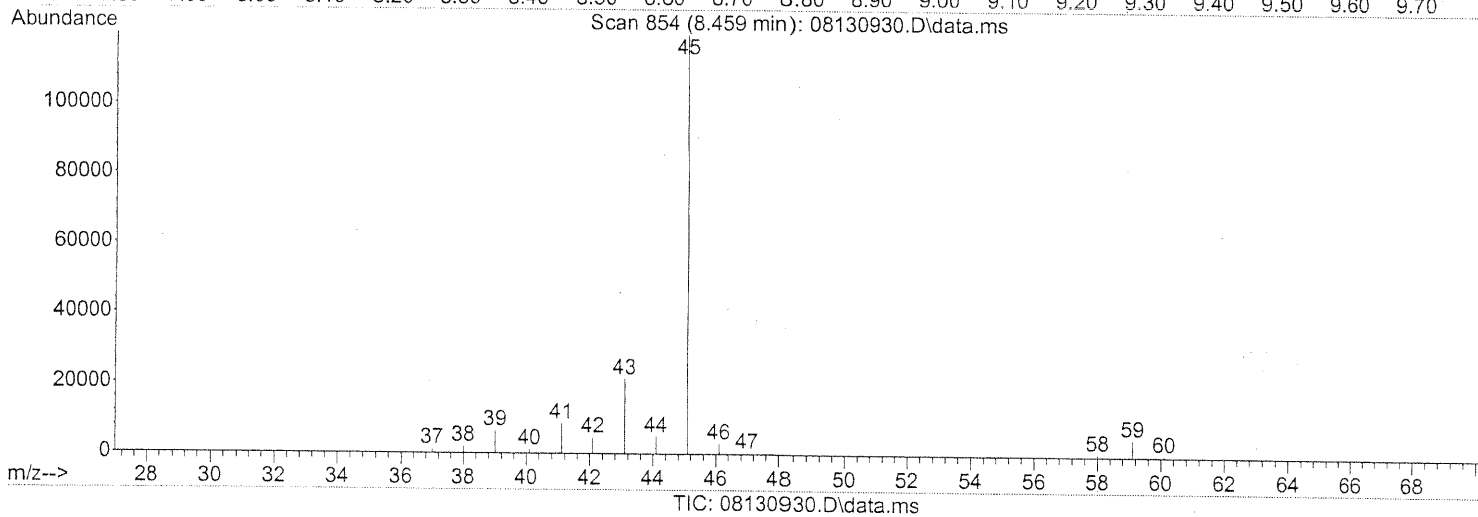
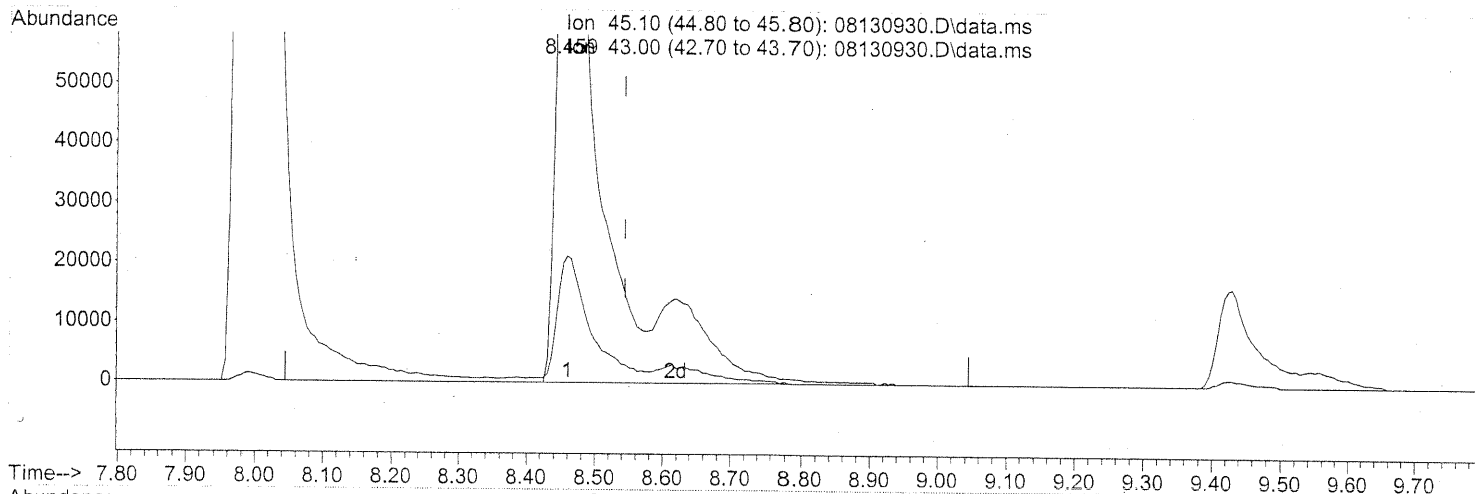
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.32
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.459min (-0.086) 10.67ng m

response 476882

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	14.41
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
 Em 8/14/09

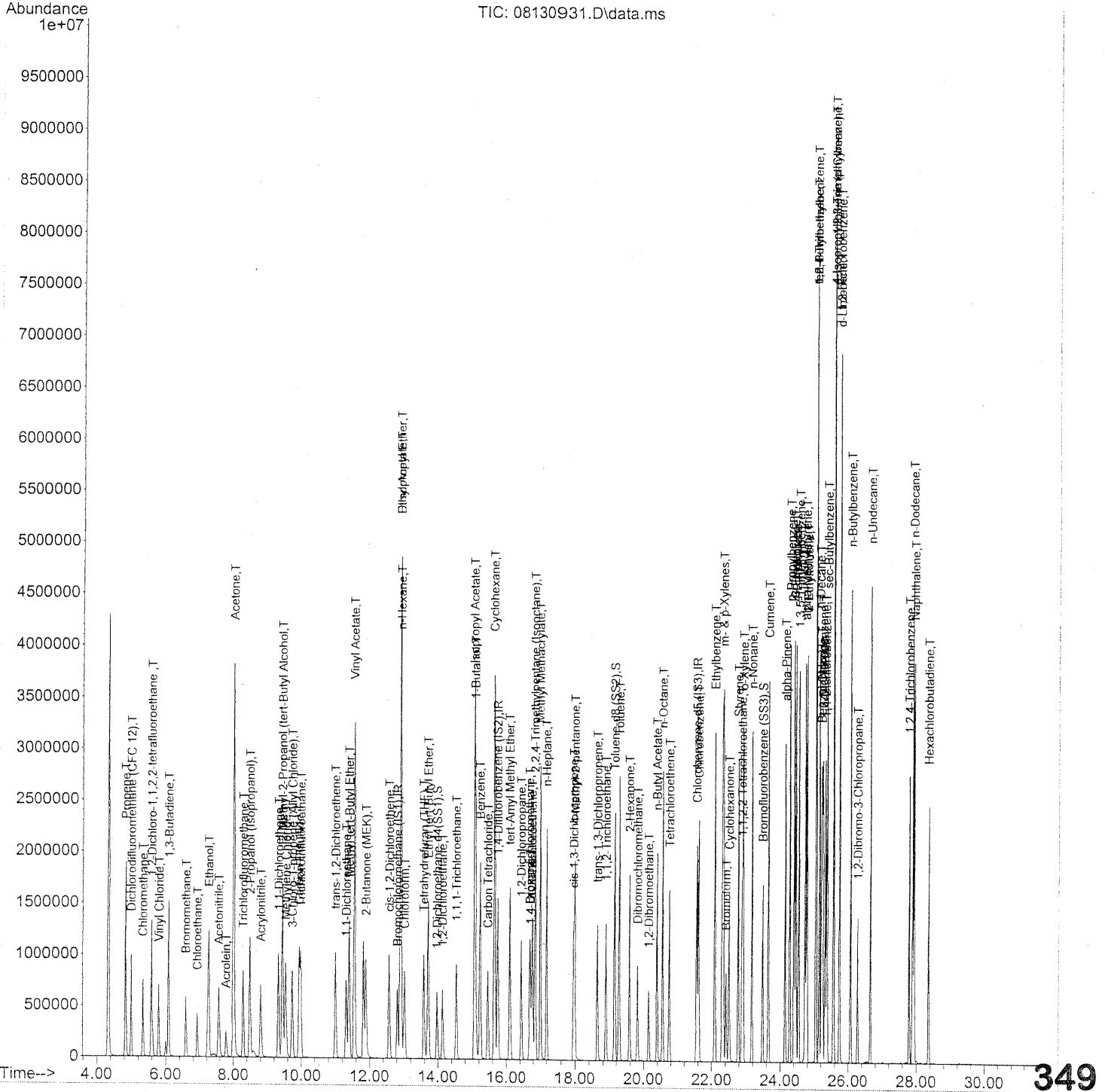
BA 8/15/09

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Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.82	130	364116	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1865895	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	897905	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4 (...)	13.97	65	639555	24.827	ng	-0.02
Spiked Amount				25.000		
				Recovery	=	99.32%
57) Toluene-d8 (SS2)	19.15	98	2134862	24.032	ng	-0.01
Spiked Amount				25.000		
				Recovery	=	96.12%
73) Bromofluorobenzene (SS3)	23.49	174	608116	22.770	ng	0.00
Spiked Amount				25.000		
				Recovery	=	91.08%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	893813	38.911	ng	96
3) Dichlorodifluoromethan...	5.00	85	1122799	24.492	ng	99
4) Chloromethane	5.33	50	1060306	30.886	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	614382	23.795	ng	100
6) Vinyl Chloride	5.80	62	1011049	27.626	ng	99
7) 1,3-Butadiene	6.08	54	905992	34.431	ng	99
8) Bromomethane	6.58	94	552570	25.596	ng	100
9) Chloroethane	6.93	64	511522	27.936	ng	100
10) Ethanol	7.26	45	2645495m	173.570	ng	
11) Acetonitrile	7.57	41	1267304	36.772	ng	98
12) Acrolein	7.79	56	380570	34.250	ng	98
13) Acetone	8.01	58	2533900	146.162	ng	88
14) Trichlorofluoromethane	8.29	101	1008004	25.243	ng	98
15) 2-Propanol (Isopropanol)	8.48	45	2453135m	53.777	ng	
16) Acrylonitrile	8.80	53	893242	38.407	ng	98
17) 1,1-Dichloroethene	9.33	96	601910	29.600	ng	97
18) 2-Methyl-2-Propanol (t...	9.44	59	3134377	61.010	ng	97
19) Methylene Chloride	9.54	84	621124	27.058	ng	89
20) 3-Chloro-1-propene (Al...	9.73	41	978578	39.503	ng	90
21) Trichlorotrifluoroethane	9.98	151	488676	26.977	ng	97
22) Carbon Disulfide	9.93	76	2326514	29.756	ng	99
23) trans-1,2-Dichloroethene	11.00	61	944327	31.664	ng	92
24) 1,1-Dichloroethane	11.31	63	1127620	31.017	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1913053	29.838	ng	96
26) Vinyl Acetate	11.56	86	656008	158.651	ng	# 71
27) 2-Butanone (MEK)	11.89	72	449156	33.967	ng	# 85
28) cis-1,2-Dichloroethene	12.58	61	894671	31.087	ng	93
29) Diisopropyl Ether	12.91	87	549290	26.727	ng	# 69
30) Ethyl Acetate	12.91	61	522358	60.309	ng	97
31) n-Hexane	12.93	57	1172996	29.289	ng	98

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.03	83	998779	27.462	ng	100
34) Tetrahydrofuran (THF)	13.58	72	424555	34.073	ng	# 88
35) Ethyl tert-Butyl Ether	13.71	87	757840	27.508	ng	# 88
36) 1,2-Dichloroethane	14.13	62	783128	26.860	ng	99
38) 1,1,1-Trichloroethane	14.54	97	885515	25.875	ng	99
39) Isopropyl Acetate	15.07	61	888654	65.401	ng	# 83
40) 1-Butanol	15.09	56	1501433	64.760	ng	88
41) Benzene	15.23	78	2534149	25.468	ng	98
42) Carbon Tetrachloride	15.46	117	761579	26.057	ng	99
43) Cyclohexane	15.66	84	2072518	55.700	ng	89
44) tert-Amyl Methyl Ether	16.10	73	1859147	28.269	ng	99
45) 1,2-Dichloropropane	16.43	63	658884	31.411	ng	99
46) Bromodichloromethane	16.70	83	830347	28.871	ng	99
47) Trichloroethene	16.77	130	648588	25.505	ng	100
48) 1,4-Dioxane	16.72	88	543245	32.435	ng	89
49) 2,2,4-Trimethylpentane...	16.86	57	2947745	30.571	ng	93
50) Methyl Methacrylate	17.02	100	558743	59.877	ng	92
51) n-Heptane	17.21	71	706671	29.331	ng	94
52) cis-1,3-Dichloropropene	17.95	75	1004919	28.799	ng	100
53) 4-Methyl-2-pentanone	17.99	58	673431	35.750	ng	95
54) trans-1,3-Dichloropropene	18.64	75	1018443	33.158	ng	100
55) 1,1,2-Trichloroethane	18.89	97	592726	28.354	ng	99
58) Toluene	19.28	91	2739340	25.191	ng	100
59) 2-Hexanone	19.58	43	1588763	33.971	ng	99
60) Dibromochloromethane	19.82	129	680507	27.831	ng	99
61) 1,2-Dibromoethane	20.15	107	663705	26.350	ng	99
62) n-Butyl Acetate	20.39	43	1860228	35.779	ng	99
63) n-Octane	20.56	57	626246	29.472	ng	92
64) Tetrachloroethene	20.76	166	654987	22.781	ng	99
65) Chlorobenzene	21.62	112	1683217	24.606	ng	100
66) Ethylbenzene	22.09	91	2994707	25.325	ng	99
67) m- & p-Xylenes	22.33	91	4647270	47.659	ng	100
68) Bromoform	22.42	173	548438	25.169	ng	100
69) Styrene	22.77	104	1863220	25.911	ng	100
70) o-Xylene	22.92	91	2385962	24.562	ng	99
71) n-Nonane	23.18	43	1438625	30.334	ng	93
72) 1,1,2,2-Tetrachloroethane	22.89	83	1078529	26.696	ng	100
74) Cumene	23.66	105	3011318	23.343	ng	99
75) alpha-Pinene	24.15	93	1480597	24.016	ng	99
76) n-Propylbenzene	24.28	91	3744994	24.101	ng	99
77) 3-Ethyltoluene	24.41	105	3058348	25.017	ng	99
78) 4-Ethyltoluene	24.46	105	2932516	23.903	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	2446240	23.977	ng	100

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1393210	24.411	ng	99
81) 2-Ethyltoluene	24.79	105	2942387	22.975	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2623418	22.990	ng	99
83) n-Decane	25.16	57	1509811	27.388	ng	95
84) Benzyl Chloride	25.22	91	2320976	28.376	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1356990	22.655	ng	99
86) 1,4-Dichlorobenzene	25.33	146	1381988	22.145	ng	100
87) sec-Butylbenzene	25.38	105	3356026	23.524	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	3219478	22.384	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2662217	22.911	ng	98
90) 1,2-Dichlorobenzene	25.74	146	1327033	21.315	ng	100
91) d-Limonene	25.74	68	1139413	25.133	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.27	157	460372	26.331	ng	95
93) n-Undecane	26.65	57	1601142	28.367	ng	97
94) 1,2,4-Trichlorobenzene	27.79	180	978833	24.366	ng	99
95) Naphthalene	27.94	128	3428876	24.487	ng	100
96) n-Dodecane	27.89	57	1635236	27.111	ng	96
97) Hexachlorobutadiene	28.36	225	549265	23.899	ng	99
98) Cyclohexanone	22.51	55	919787	28.042	ng	94
99) tert-Butylbenzene	25.05	119	2572033	22.302	ng	100
100) n-Butylbenzene	26.07	91	2798242	24.631	ng	100

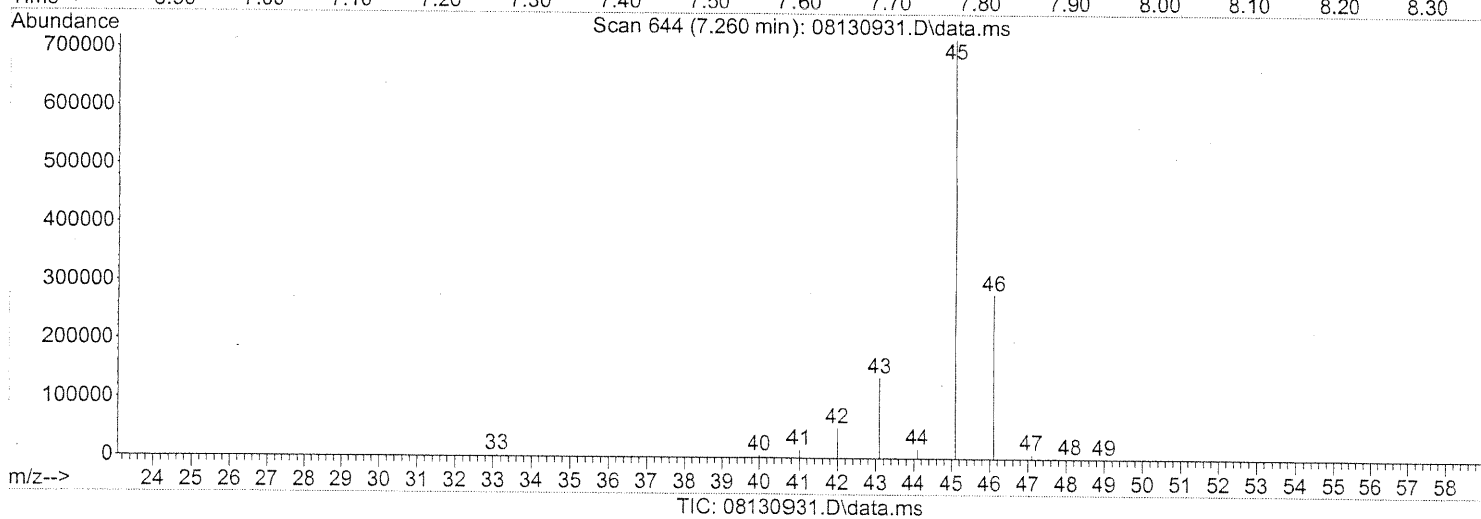
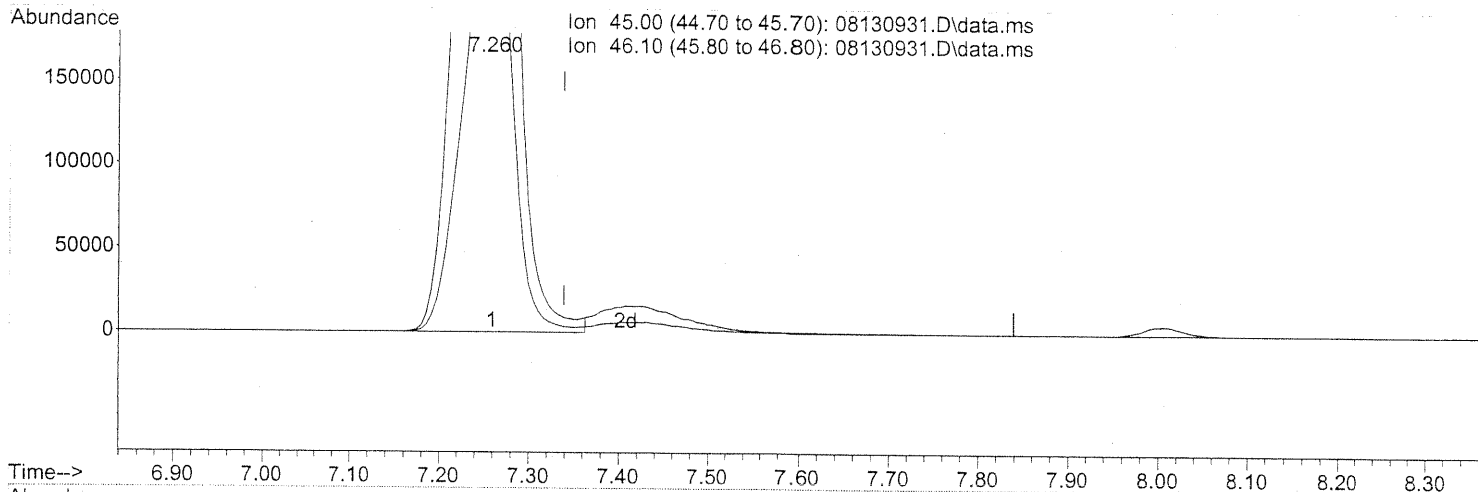
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Em 8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.260min (-0.080) 166.43ng

response 2536739

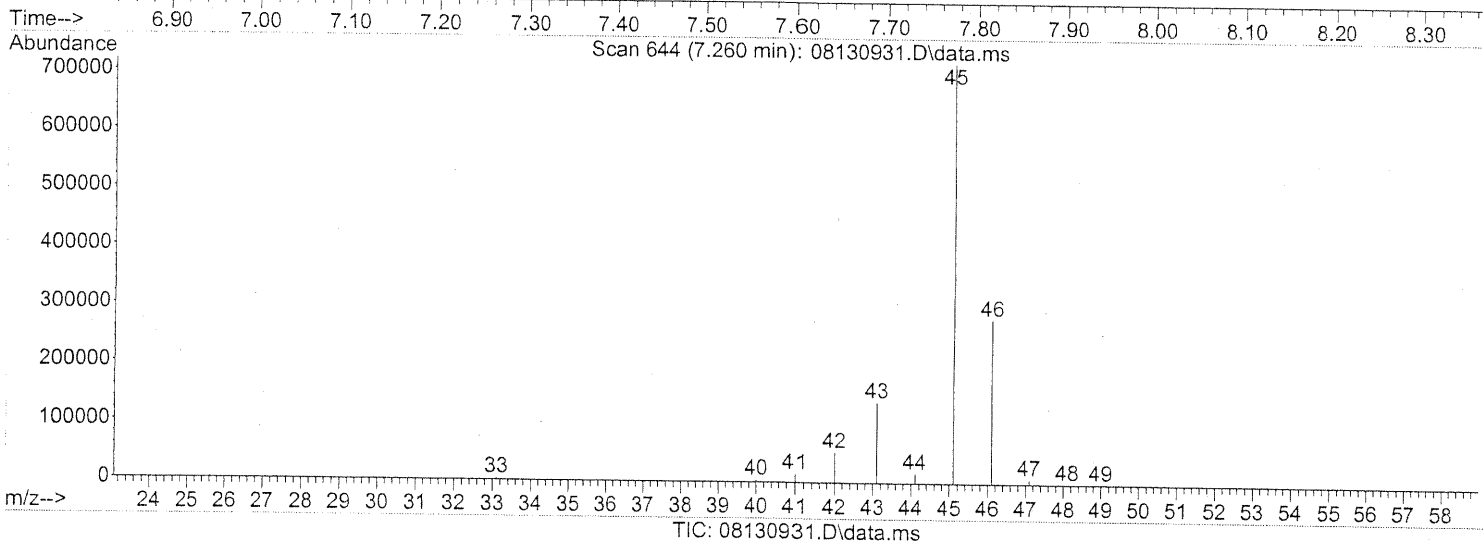
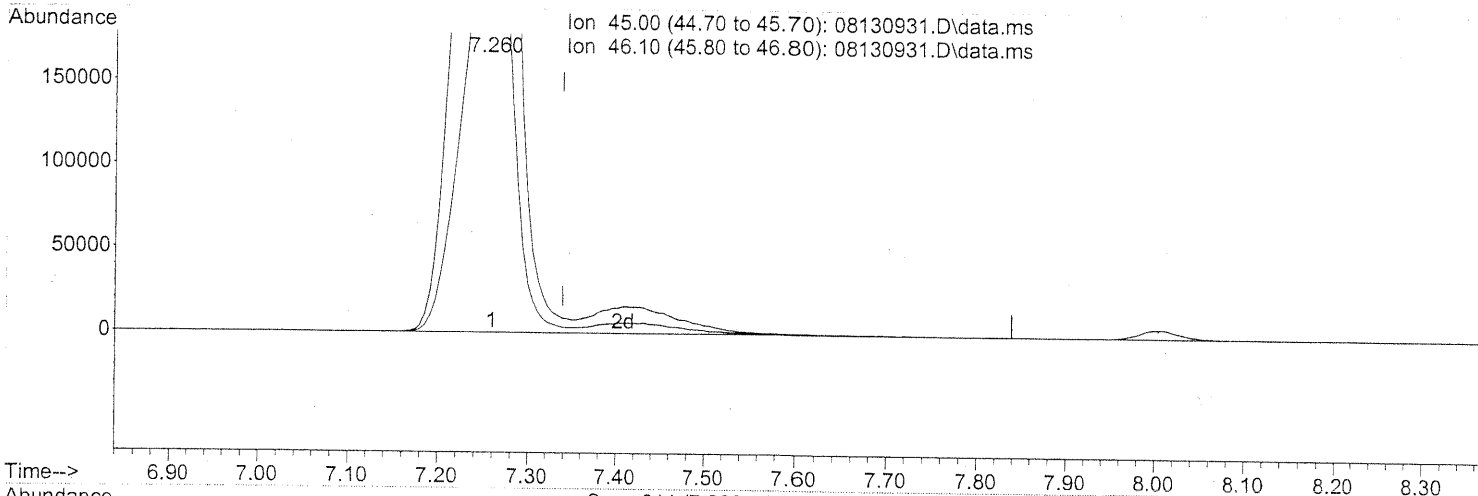
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.260min (-0.080) 173.57ng m

response 2645495

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.49
0.00	0.00	0.00
0.00	0.00	0.00

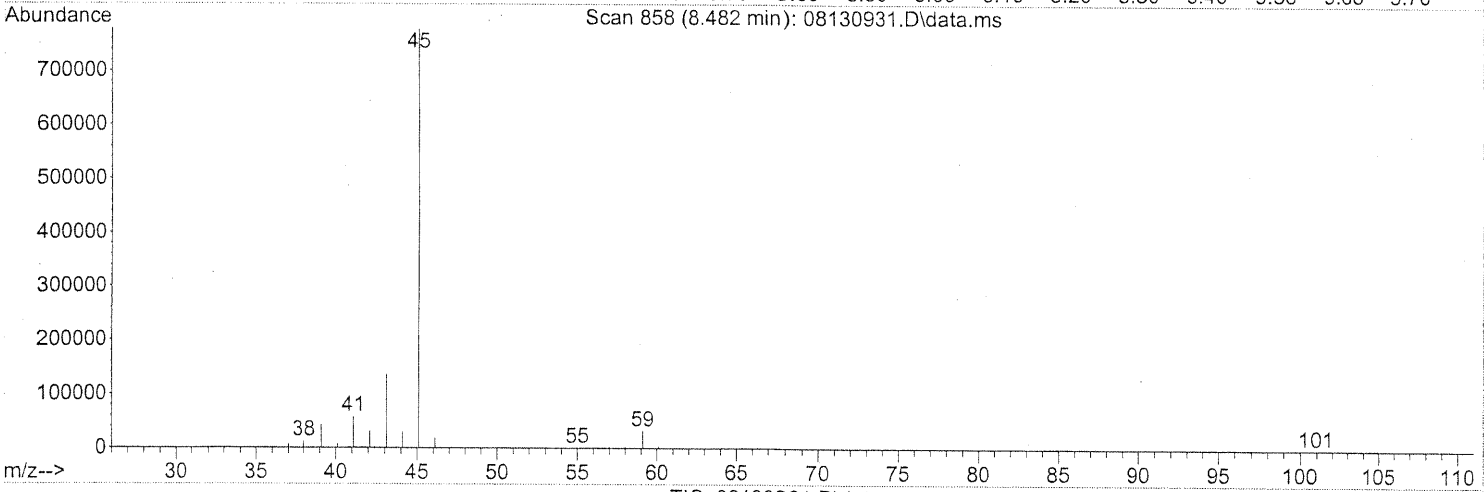
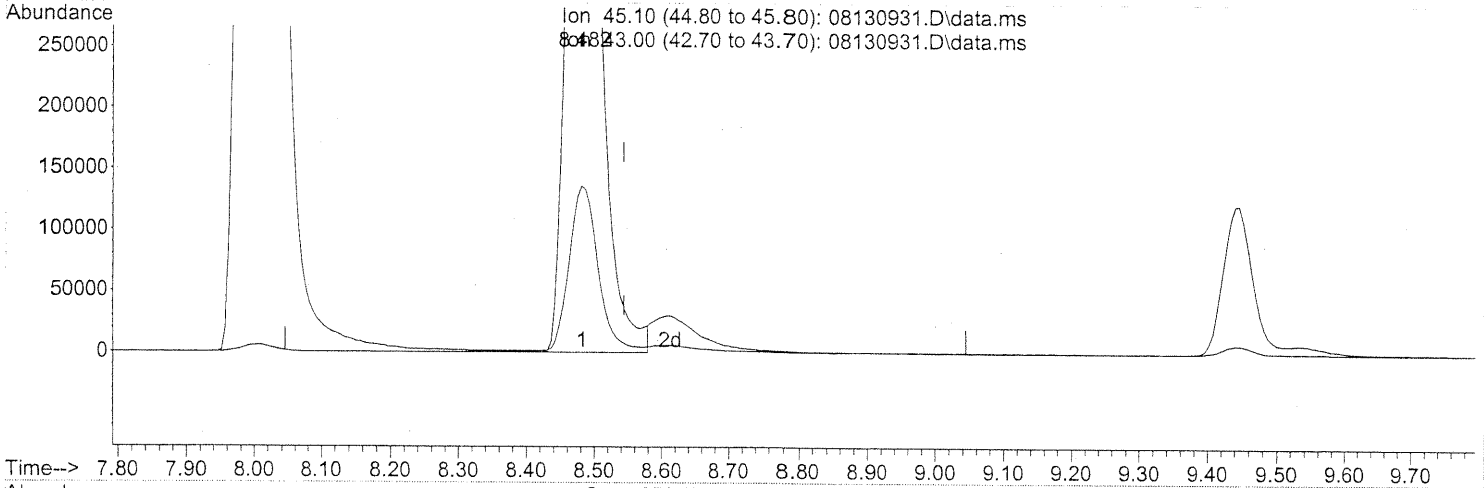
PT → LC
em 8/14/09

8/15/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

8.482min (-0.063) 50.45ng

response 2301319

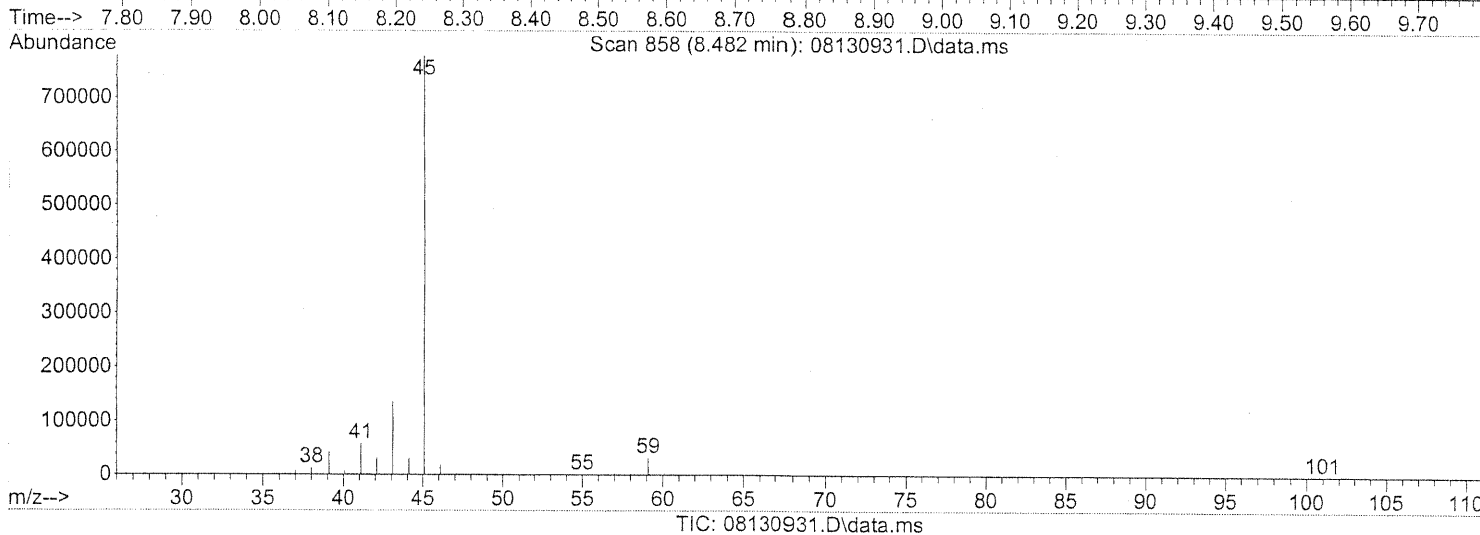
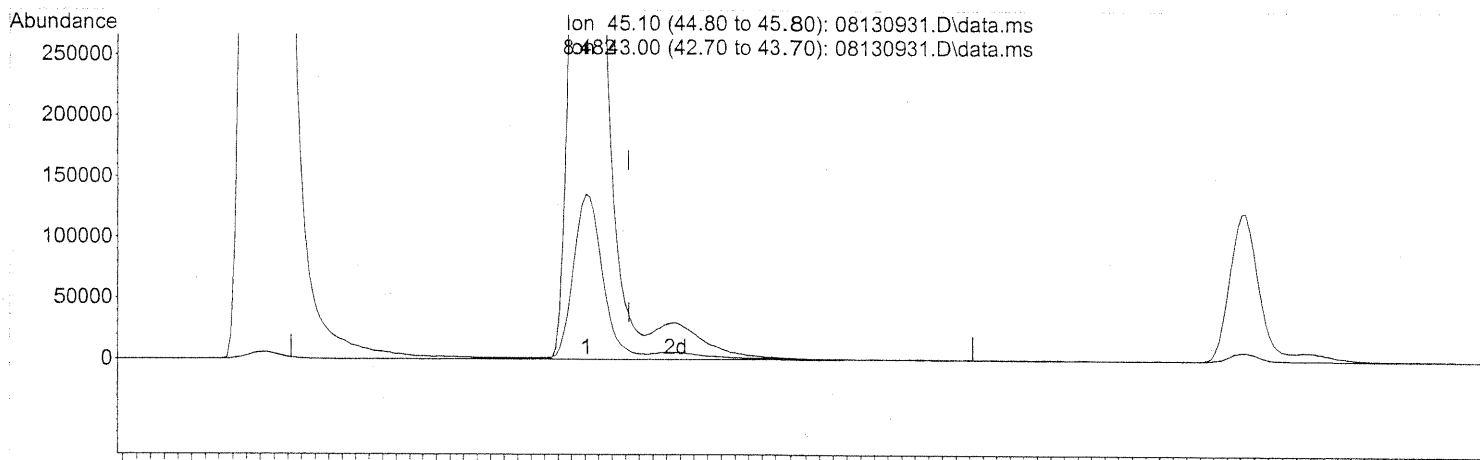
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.19
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.482min (-0.063) 53.78ng m

response 2453135

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	18.00
0.00	0.00	0.00
0.00	0.00	0.00

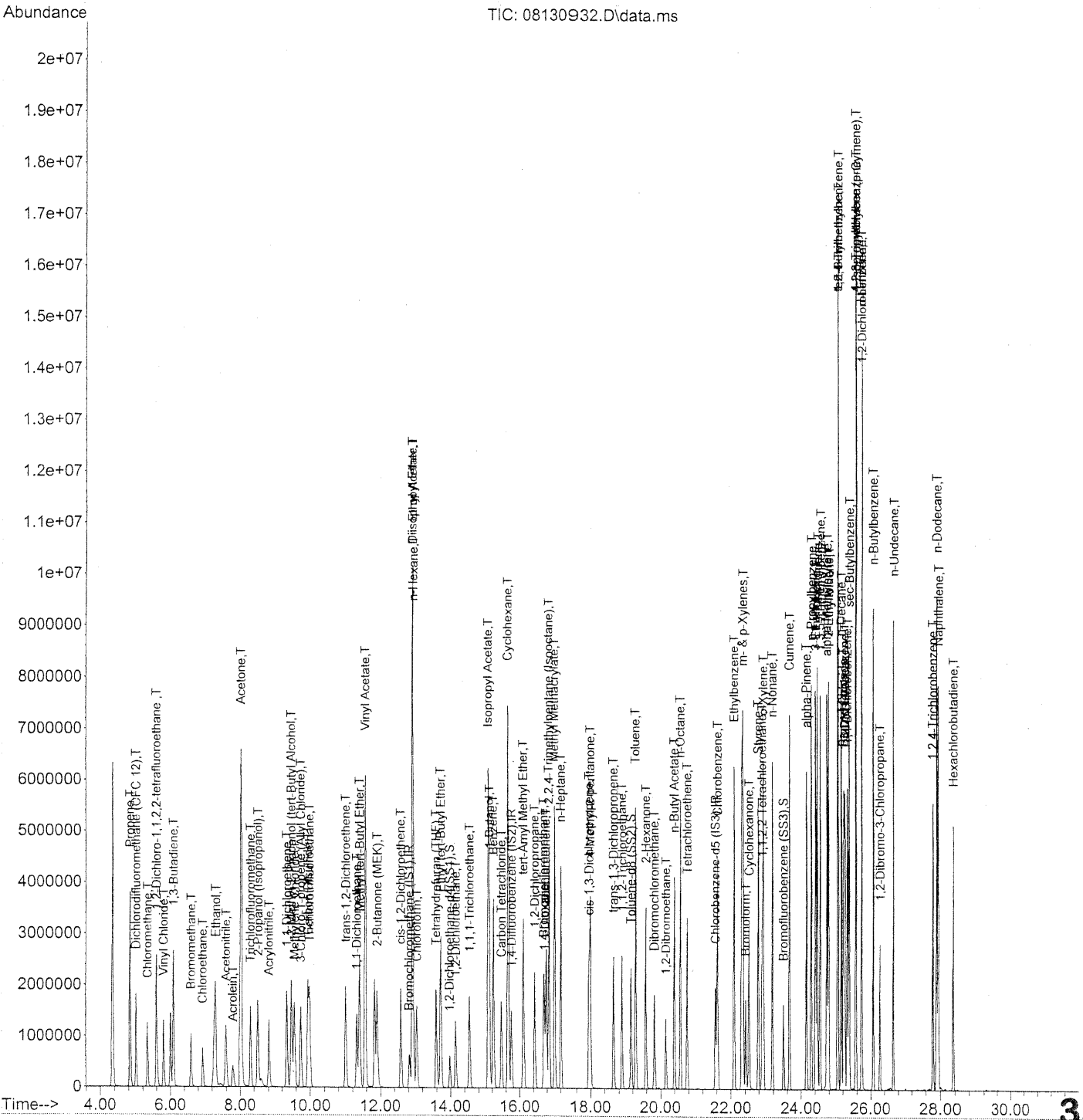
PT → IC
 em 8/14/09

EM 8/15/09

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Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130932.D
Acq On : 14 Aug 2009 6:06
Operator : EM
Sample : 50ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.82	130	350547	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.77	114	1802547	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.56	82	865291	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4 (...)	13.98	65	612890	24.713	ng	-0.01
Spiked Amount				25.000		
Recovery						98.84%
57) Toluene-d8 (SS2)	19.15	98	2053608	23.989	ng	0.00
Spiked Amount				25.000		
Recovery						95.96%
73) Bromofluorobenzene (SS3)	23.49	174	585162	22.737	ng	0.00
Spiked Amount				25.000		
Recovery						90.96%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	1835063	82.979	ng	96
3) Dichlorodifluoromethan...	5.01	85	2152098	48.762	ng	99
4) Chloromethane	5.34	50	1909302	57.769	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1202790	48.388	ng	100
6) Vinyl Chloride	5.80	62	1933734	54.883	ng	99
7) 1,3-Butadiene	6.09	54	1726352	68.147	ng	99
8) Bromomethane	6.59	94	1036817	49.887	ng	100
9) Chloroethane	6.93	64	971424	55.107	ng	100
10) Ethanol	7.30	45	5039053	343.407	ng	100
11) Acetonitrile	7.59	41	2412776	72.719	ng	99
12) Acrolein	7.79	56	727129	67.972	ng	98
13) Acetone	8.03	58	4904508	293.855	ng	87
14) Trichlorofluoromethane	8.29	101	1926285	50.107	ng	98
15) 2-Propanol (Isopropanol)	8.51	45	3892928	88.644	ng	94
16) Acrylonitrile	8.82	53	1701577	75.996	ng	99
17) 1,1-Dichloroethene	9.33	96	1160521	59.280	ng	98
18) 2-Methyl-2-Propanol (t...	9.46	59	4054207	81.969	ng	97
19) Methylene Chloride	9.56	84	1192968	53.981	ng	89
20) 3-Chloro-1-propene (Al...	9.74	41	1889044	79.209	ng	90
21) Trichlorotrifluoroethane	9.99	151	945670	54.226	ng	97
22) Carbon Disulfide	9.94	76	4497151	59.746	ng	98
23) trans-1,2-Dichloroethene	11.01	61	1818529	63.338	ng	93
24) 1,1-Dichloroethane	11.32	63	2174072	62.117	ng	100
25) Methyl tert-Butyl Ether	11.40	73	3746603	60.699	ng	96
26) Vinyl Acetate	11.57	86	1327059	333.362	ng	# 78
27) 2-Butanone (MEK)	11.90	72	865059	67.951	ng	# 86
28) cis-1,2-Dichloroethene	12.58	61	1721120	62.119	ng	94
29) Diisopropyl Ether	12.92	87	1111656	56.184	ng	# 74
30) Ethyl Acetate	12.92	61	1067973	128.075	ng	97
31) n-Hexane	12.93	57	2406714	62.420	ng	95

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.04	83	1924717	54.970	ng	100
34) Tetrahydrofuran (THF)	13.59	72	790606	65.907	ng #	87
35) Ethyl tert-Butyl Ether	13.72	87	1490436	56.193	ng #	88
36) 1,2-Dichloroethane	14.14	62	1501599	53.495	ng	99
38) 1,1,1-Trichloroethane	14.54	97	1725003	52.176	ng	100
39) Isopropyl Acetate	15.08	61	1746401	133.045	ng #	85
40) 1-Butanol	15.11	56	2940898	131.304	ng	88
41) Benzene	15.24	78	4920242	51.185	ng	99
42) Carbon Tetrachloride	15.47	117	1493939	52.911	ng	99
43) Cyclohexane	15.66	84	4129214	114.874	ng	88
44) tert-Amyl Methyl Ether	16.11	73	3664090	57.672	ng	99
45) 1,2-Dichloropropane	16.44	63	1271414	62.743	ng	98
46) Bromodichloromethane	16.70	83	1623042	58.416	ng	99
47) Trichloroethene	16.78	130	1266559	51.557	ng	100
48) 1,4-Dioxane	16.73	88	1067524	65.978	ng	89
49) 2,2,4-Trimethylpentane...	16.86	57	5774283	61.989	ng	93
50) Methyl Methacrylate	17.03	100	1111183	123.264	ng	93
51) n-Heptane	17.22	71	1384269	59.475	ng	95
52) cis-1,3-Dichloropropene	17.95	75	1961714	58.194	ng	100
53) 4-Methyl-2-pentanone	17.99	58	1317291	72.388	ng	95
54) trans-1,3-Dichloropropene	18.65	75	1988137	67.004	ng	100
55) 1,1,2-Trichloroethane	18.90	97	1148732	56.882	ng	98
58) Toluene	19.28	91	5320486	50.772	ng	100
59) 2-Hexanone	19.59	43	3087649	68.509	ng	100
60) Dibromochloromethane	19.82	129	1325208	56.240	ng	100
61) 1,2-Dibromoethane	20.15	107	1295084	53.355	ng	100
62) n-Butyl Acetate	20.39	43	3708971	74.026	ng	99
63) n-Octane	20.56	57	1231350	60.134	ng	92
64) Tetrachloroethene	20.76	166	1285349	46.390	ng	99
65) Chlorobenzene	21.63	112	3279777	49.753	ng	100
66) Ethylbenzene	22.09	91	5886739	51.658	ng	99
67) m- & p-Xylenes	22.33	91	9252004	98.458	ng	100
68) Bromoform	22.42	173	1097931	52.286	ng	100
69) Styrene	22.78	104	3668340	52.938	ng	100
70) o-Xylene	22.92	91	4731058	50.539	ng	99
71) n-Nonane	23.18	43	2791725	61.083	ng	94
72) 1,1,2,2-Tetrachloroethane	22.89	83	2141569	55.006	ng	100
74) Cumene	23.66	105	5934180	47.735	ng	99
75) alpha-Pinene	24.15	93	2936785	49.431	ng	100
76) n-Propylbenzene	24.29	91	7354011	49.110	ng	100
77) 3-Ethyltoluene	24.41	105	5944493	50.459	ng	99
78) 4-Ethyltoluene	24.47	105	5986526	50.636	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	4865603	49.487	ng	100

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

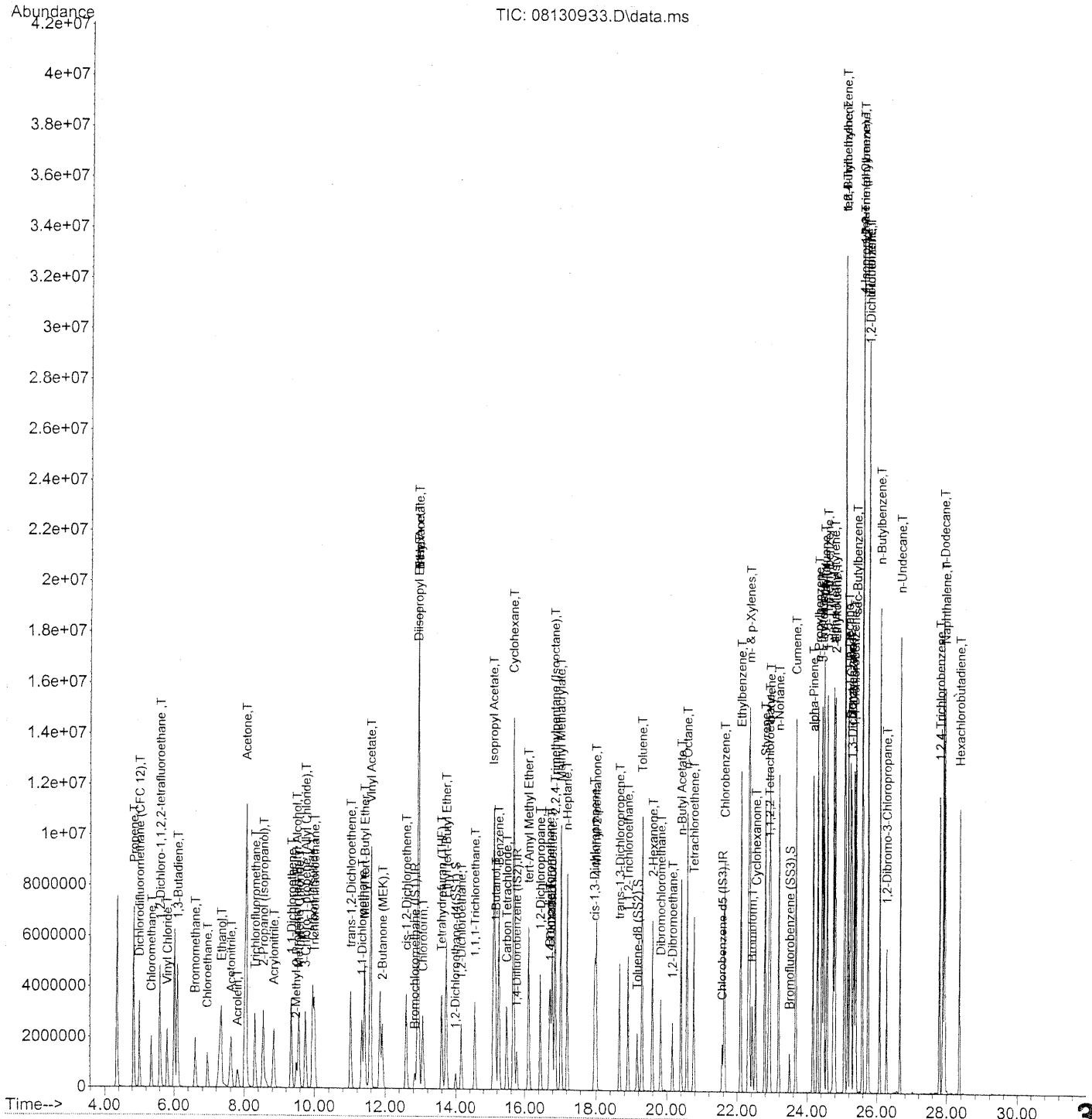
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	2788713	50.704	ng	98
81) 2-Ethyltoluene	24.79	105	5835415	47.282	ng	100
82) 1,2,4-Trimethylbenzene	25.06	105	5419555	49.283	ng	98
83) n-Decane	25.16	57	2958484	55.690	ng	96
84) Benzyl Chloride	25.23	91	4657935	59.094	ng	100
85) 1,3-Dichlorobenzene	25.25	146	2725906	47.225	ng	100
86) 1,4-Dichlorobenzene	25.33	146	2761502	45.918	ng	100
87) sec-Butylbenzene	25.39	105	6623319	48.176	ng	100
88) 4-Isopropyltoluene (p-...	25.57	119	6624766	47.796	ng	100
89) 1,2,3-Trimethylbenzene	25.57	105	5491766	49.043	ng	97
90) 1,2-Dichlorobenzene	25.75	146	2744516	45.744	ng	100
91) d-Limonene	25.75	68	2289426	52.402	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.27	157	922457	54.748	ng	95
93) n-Undecane	26.66	57	3160860	58.111	ng	98
94) 1,2,4-Trichlorobenzene	27.80	180	2014621	52.040	ng	99
95) Naphthalene	27.94	128	7027186	52.076	ng	100
96) n-Dodecane	27.89	57	3283767	56.494	ng	97
97) Hexachlorobutadiene	28.36	225	1130021	51.021	ng	99
98) Cyclohexanone	22.52	55	1802415	57.022	ng	95
99) tert-Butylbenzene	25.06	119	5291689	47.613	ng	100
100) n-Butylbenzene	26.07	91	5516279	50.386	ng	99

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

Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.84	130	348166	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.77	114	1791529	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.57	82	827819	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.99	65	607715	24.672	ng	0.00
Spiked Amount	25.000		Recovery	=	98.68%	
57) Toluene-d8 (SS2)	19.16	98	2003126	24.459	ng	0.00
Spiked Amount	25.000		Recovery	=	97.84%	
73) Bromofluorobenzene (SS3)	23.49	174	555754	22.571	ng	0.00
Spiked Amount	25.000		Recovery	=	90.28%	

Target Compounds

						Qvalue
2) Propene	4.84	42	3637379	165.601	ng	96
3) Dichlorodifluoromethan...	5.01	85	4285891	97.773	ng	99
4) Chloromethane	5.35	50	3395552	103.441	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	2374269	96.170	ng	100
6) Vinyl Chloride	5.81	62	3733511	106.688	ng	99
7) 1,3-Butadiene	6.09	54	3376996	134.217	ng	100
8) Bromomethane	6.60	94	2088575	101.180	ng	99
9) Chloroethane	6.94	64	1938501	110.719	ng	100
10) Ethanol	7.35	45	9723278	667.164	ng	100
11) Acetonitrile	7.62	41	4607769	139.823	ng	99
12) Acrolein	7.81	56	1410648	132.769	ng	98
13) Acetone	8.05	58	9758235	588.667	ng	# 81
14) Trichlorofluoromethane	8.31	101	3855506	100.976	ng	98
15) 2-Propanol (Isopropanol)	8.54	45	7411494	169.917	ng	94
16) Acrylonitrile	8.84	53	3337367	150.073	ng	98
17) 1,1-Dichloroethene	9.34	96	2361373	121.445	ng	99
18) 2-Methyl-2-Propanol (t...	9.49	59	1930576	39.300	ng	94
19) Methylene Chloride	9.56	84	2367946	107.882	ng	91
20) 3-Chloro-1-propene (Al...	9.75	41	3751505	158.379	ng	90
21) Trichlorotrifluoroethane	10.00	151	1857232	107.225	ng	98
22) Carbon Disulfide	9.95	76	9003969	120.438	ng	98
23) trans-1,2-Dichloroethene	11.02	61	3600834	126.271	ng	94
24) 1,1-Dichloroethane	11.33	63	4282531	123.196	ng	100
25) Methyl tert-Butyl Ether	11.41	73	7429243	121.184	ng	96
26) Vinyl Acetate	11.59	86	2488460	629.386	ng	# 93
27) 2-Butanone (MEK)	11.92	72	1131449	89.484	ng	# 88
28) cis-1,2-Dichloroethene	12.60	61	3373649	122.596	ng	95
29) Diisopropyl Ether	12.92	87	2306270	117.357	ng	# 89
30) Ethyl Acetate	12.94	61	2196811	265.252	ng	98
31) n-Hexane	12.94	57	5006652	130.739	ng	98

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.06	83	3845350	110.575	ng	100
34) Tetrahydrofuran (THF)	13.59	72	1563630	131.239	ng #	88
35) Ethyl tert-Butyl Ether	13.73	87	2996398	113.745	ng	90
36) 1,2-Dichloroethane	14.15	62	2964635	106.339	ng	100
38) 1,1,1-Trichloroethane	14.55	97	3345979	101.827	ng	99
39) Isopropyl Acetate	15.10	61	3529470	270.537	ng #	92
40) 1-Butanol	15.15	56	5716126	256.782	ng #	5
41) Benzene	15.25	78	9743540	101.985	ng	99
42) Carbon Tetrachloride	15.47	117	2984668	106.359	ng	99
43) Cyclohexane	15.67	84	8447133	236.444	ng	90
44) tert-Amyl Methyl Ether	16.11	73	7344919	116.318	ng	99
45) 1,2-Dichloropropane	16.45	63	2518901	125.070	ng	98
46) Bromodichloromethane	16.71	83	3199002	115.846	ng	99
47) Trichloroethene	16.79	130	2587187	105.962	ng	100
48) 1,4-Dioxane	16.74	88	2105550	130.933	ng	89
49) 2,2,4-Trimethylpentane...	16.87	57	11343752	122.528	ng	93
50) Methyl Methacrylate	17.05	100	2277585	254.207	ng	95
51) n-Heptane	17.22	71	2756301	119.152	ng	95
52) cis-1,3-Dichloropropene	17.96	75	3903750	116.517	ng	99
53) 4-Methyl-2-pentanone	18.00	58	2601880	143.858	ng	96
54) trans-1,3-Dichloropropene	18.66	75	3928268	133.204	ng	100
55) 1,1,2-Trichloroethane	18.90	97	2295248	114.353	ng	99
58) Toluene	19.29	91	10619232	105.924	ng	98
59) 2-Hexanone	19.60	43	5972025	138.505	ng	99
60) Dibromochloromethane	19.83	129	2671138	118.490	ng	99
61) 1,2-Dibromoethane	20.16	107	2581710	111.177	ng	100
62) n-Butyl Acetate	20.40	43	7613756	158.839	ng	98
63) n-Octane	20.57	57	2463694	125.762	ng	94
64) Tetrachloroethene	20.76	166	2651443	100.026	ng	98
65) Chlorobenzene	21.63	112	6606674	104.758	ng	99
66) Ethylbenzene	22.10	91	11775803	108.015	ng	99
67) m- & p-Xylenes	22.35	91	18896858	210.199	ng	98
68) Bromoform	22.43	173	2253843	112.193	ng	100
69) Styrene	22.79	104	7494579	113.049	ng	100
70) o-Xylene	22.93	91	9698083	108.288	ng	100
71) n-Nonane	23.19	43	5386497	123.192	ng	98
72) 1,1,2,2-Tetrachloroethane	22.91	83	4392172	117.919	ng	99
74) Cumene	23.67	105	11982041	100.747	ng	99
75) alpha-Pinene	24.16	93	6016933	105.858	ng	99
76) n-Propylbenzene	24.29	91	14406754	100.564	ng	98
77) 3-Ethyltoluene	24.41	105	12117897	107.517	ng	99
78) 4-Ethyltoluene	24.47	105	12131828	107.260	ng	97
79) 1,3,5-Trimethylbenzene	24.56	105	10058671	106.936	ng	99

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

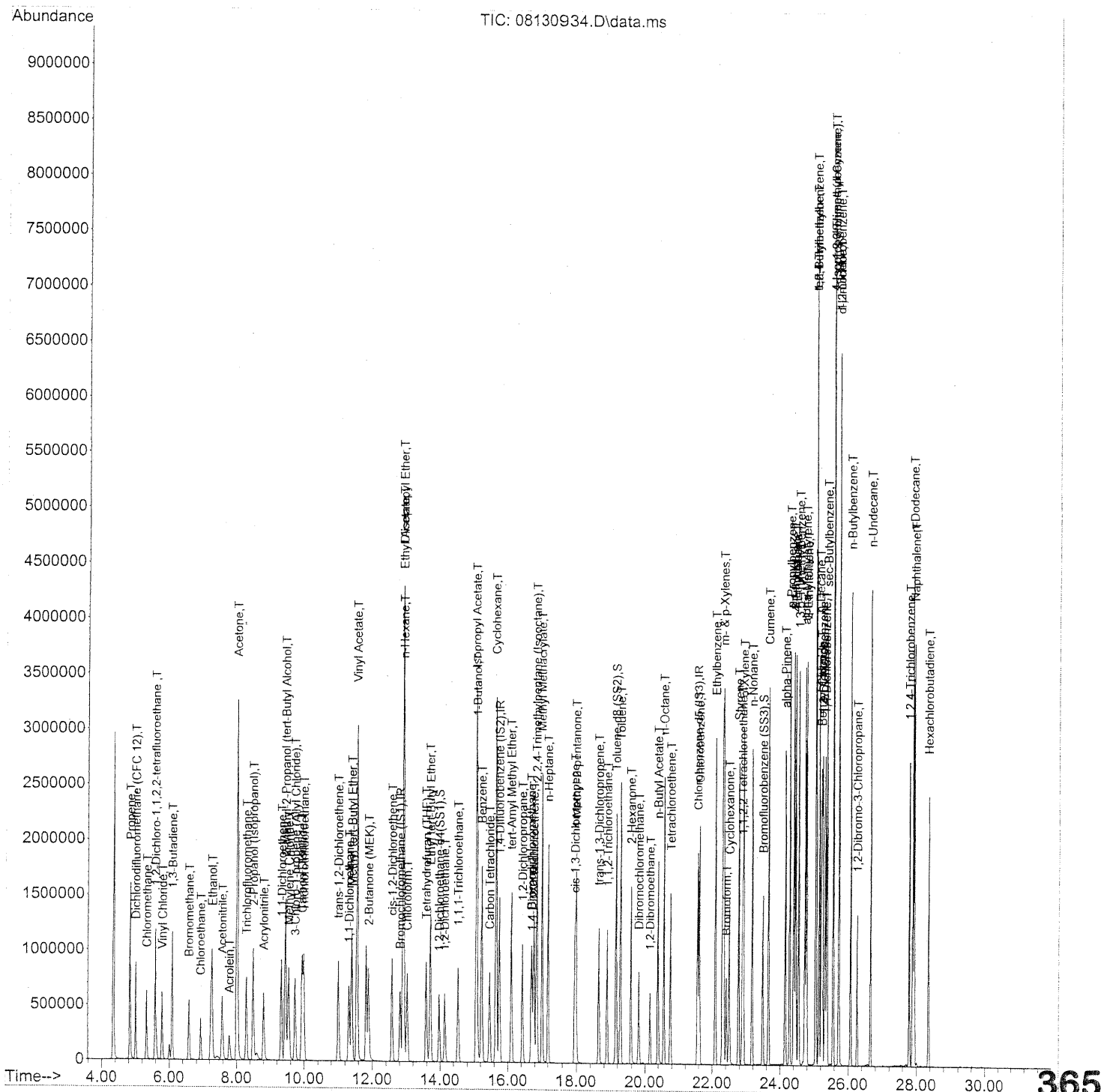
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	5862974	111.426	ng	98
81) 2-Ethyltoluene	24.80	105	11978631	101.452	ng	98
82) 1,2,4-Trimethylbenzene	25.07	105	11417406	108.524	ng	95
83) n-Decane	25.17	57	5959851	117.266	ng	97
84) Benzyl Chloride	25.24	91	9728914	129.016	ng	99
85) 1,3-Dichlorobenzene	25.27	146	5822861	105.443	ng	100
86) 1,4-Dichlorobenzene	25.34	146	5826479	101.267	ng	100
87) sec-Butylbenzene	25.39	105	13318015	101.255	ng	98
88) 4-Isopropyltoluene (p-...	25.58	119	13504368	101.840	ng	96
89) 1,2,3-Trimethylbenzene	25.59	105	11559732	107.903	ng	95
90) 1,2-Dichlorobenzene	25.76	146	6086420	106.037	ng	99
91) d-Limonene	25.75	68	4660560	111.503	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.28	157	1916720	118.907	ng	94
93) n-Undecane	26.66	57	6305897	121.179	ng	100
94) 1,2,4-Trichlorobenzene	27.80	180	4306788	116.286	ng	100
95) Naphthalene	27.94	128	14097900	109.204	ng	98
96) n-Dodecane	27.90	57	6564038	118.039	ng	100
97) Hexachlorobutadiene	28.36	225	2440971	115.199	ng	99
98) Cyclohexanone	22.53	55	3544648	117.216	ng	95
99) tert-Butylbenzene	25.07	119	11254211	105.845	ng	98
100) n-Butylbenzene	26.08	91	11144477	106.402	ng	96

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

Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.82	130	347390	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1780684	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	815195	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	604640	24.616	ng	-0.02	
Spiked Amount	25.000						
			Recovery	=	98.48%		✓
57) Toluene-d8 (SS2)	19.15	98	2007417	25.903	ng	-0.01	
Spiked Amount	25.000						
			Recovery	=	103.60%		✓
73) Bromofluorobenzene (SS3)	23.49	174	549810	25.051	ng	0.00	
Spiked Amount	25.000						
			Recovery	=	100.20%		✓

Target Compounds

						Qvalue
2) Propene	4.83	42	755258	24.784	ng	97
3) Dichlorodifluoromethan...	5.00	85	1005106	23.107	ng	99
4) Chloromethane	5.33	50	889752	21.947	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	564338	24.551	ng	100
6) Vinyl Chloride	5.79	62	876778	21.924	ng	99
7) 1,3-Butadiene	6.08	54	701163	24.684	ng	99
8) Bromomethane	6.58	94	517466	24.745	ng	100
9) Chloroethane	6.93	64	453736	22.870	ng	100
10) Ethanol	7.27	45	2232593m	116.796	ng	
11) Acetonitrile	7.57	41	1091608	23.400	ng	98
12) Acrolein	7.79	56	337125	27.044	ng	99
13) Acetone	8.01	58	2192988	112.739	ng	90
14) Trichlorofluoromethane	8.29	101	901533	24.237	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	2159425m	40.537	ng	
16) Acrylonitrile	8.81	53	785326	27.795	ng	99
17) 1,1-Dichloroethene	9.33	96	557081	25.520	ng	100
18) 2-Methyl-2-Propanol (t...	9.45	59	2821970	52.180	ng	97
19) Methylene Chloride	9.54	84	567231	23.372	ng	92
20) 3-Chloro-1-propene (Al...	9.73	41	863616	26.536	ng	90
21) Trichlorotrifluoroethane	9.98	151	460905	27.684	ng	100
22) Carbon Disulfide	9.93	76	2066628	24.130	ng	98
23) trans-1,2-Dichloroethene	11.00	61	828040	24.719	ng	94
24) 1,1-Dichloroethane	11.31	63	1028210	25.062	ng	99
25) Methyl tert-Butyl Ether	11.40	73	1722756	25.914	ng	97
26) Vinyl Acetate	11.56	86	625023	148.358	ng	# 78
27) 2-Butanone (MEK)	11.89	72	401170	29.583	ng	# 87
28) cis-1,2-Dichloroethene	12.58	61	818774	26.193	ng	94
29) Diisopropyl Ether	12.91	87	504111	26.184	ng	# 78
30) Ethyl Acetate	12.90	61	457829	52.062	ng	99
31) n-Hexane	12.93	57	1031014	24.051	ng	

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.03	83	925757	25.803	ng	100
34) Tetrahydrofuran (THF)	13.58	72	383882	27.228	ng	# 90
35) Ethyl tert-Butyl Ether	13.71	87	697007	25.375	ng	90
36) 1,2-Dichloroethane	14.13	62	726093	26.447	ng	100
38) 1,1,1-Trichloroethane	14.54	97	832543	25.706	ng	100
39) Isopropyl Acetate	15.07	61	799888	55.041	ng	# 83
40) 1-Butanol	15.09	56	1373581	59.526	ng	88
41) Benzene	15.23	78	2340548	24.441	ng	98
42) Carbon Tetrachloride	15.46	117	716257	26.758	ng	99
43) Cyclohexane	15.66	84	1852146	49.942	ng	90
44) tert-Amyl Methyl Ether	16.10	73	1708871	25.389	ng	99
45) 1,2-Dichloropropane	16.43	63	596499	25.392	ng	98
46) Bromodichloromethane	16.70	83	745141	26.598	ng	99
47) Trichloroethene	16.77	130	608704	25.035	ng	100
48) 1,4-Dioxane	16.72	88	489317	28.729	ng	89
49) 2,2,4-Trimethylpentane...	16.86	57	2653373	24.075	ng	94
50) Methyl Methacrylate	17.02	100	520131	54.356	ng	94
51) n-Heptane	17.21	71	631643	24.777	ng	96
52) cis-1,3-Dichloropropene	17.95	75	924165	26.108	ng	100
53) 4-Methyl-2-pentanone	17.98	58	595650	28.784	ng	96
54) trans-1,3-Dichloropropene	18.64	75	942904	30.449	ng	100
55) 1,1,2-Trichloroethane	18.89	97	547475	26.759	ng	99
58) Toluene	19.28	91	2532381	26.956	ng	99
59) 2-Hexanone	19.58	43	1400765	28.689	ng	100
60) Dibromochloromethane	19.82	129	613012	30.559	ng	100
61) 1,2-Dibromoethane	20.15	107	619801	29.314	ng	99
62) n-Butyl Acetate	20.39	43	1666866	31.288	ng	99
63) n-Octane	20.56	57	565014	26.981	ng	94
64) Tetrachloroethene	20.76	166	616353	26.439	ng	100
65) Chlorobenzene	21.62	112	1574474	27.291	ng	99
66) Ethylbenzene	22.09	91	2787656	27.484	ng	99
67) m- & p-Xylenes	22.33	91	4338755	53.958	ng	100
68) Bromoform	22.42	173	508656	29.212	ng	100
69) Styrene	22.77	104	1750906	29.458	ng	99
70) o-Xylene	22.92	91	2234503	27.623	ng	99
71) n-Nonane	23.17	43	1287447	26.429	ng	94
72) 1,1,2,2-Tetrachloroethane	22.89	83	1004176	28.898	ng	99
74) Cumene	23.66	105	2788818	26.590	ng	99
75) alpha-Pinene	24.15	93	1368269	26.441	ng	99
76) n-Propylbenzene	24.28	91	3462821	26.713	ng	100
77) 3-Ethyltoluene	24.41	105	2770931	28.200	ng	99
78) 4-Ethyltoluene	24.46	105	2777194	28.115	ng	98
79) 1,3,5-Trimethylbenzene	24.55	105	2322017	28.429	ng	100

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

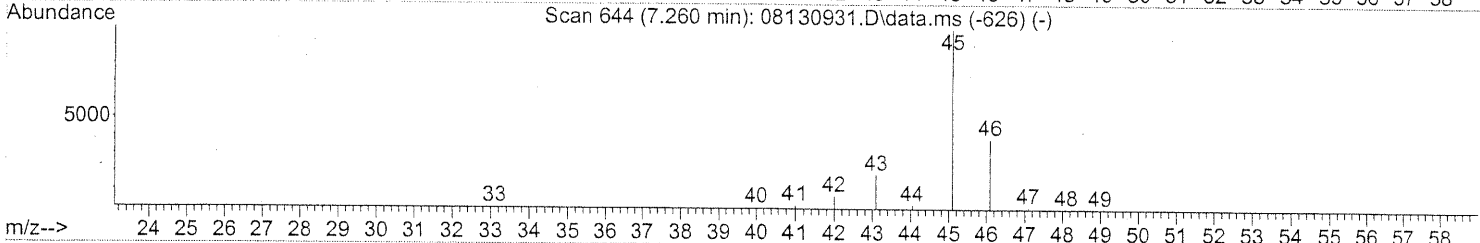
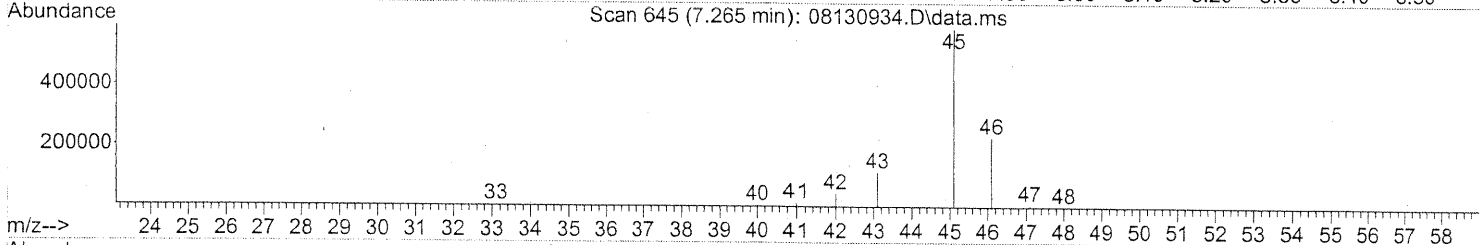
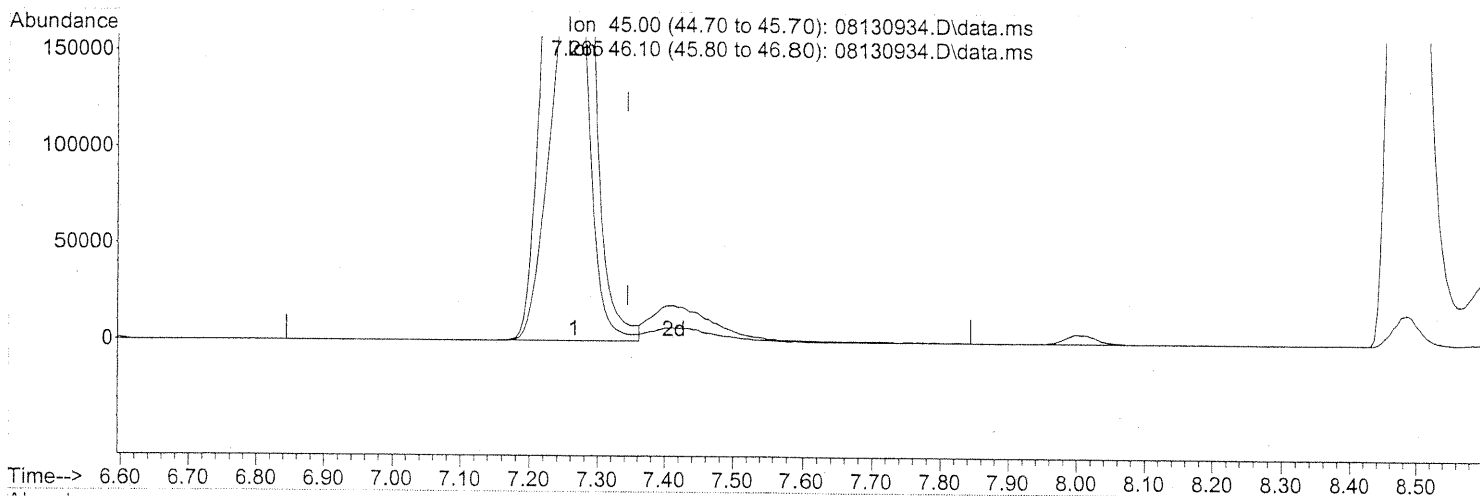
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1304171	29.427	ng	99
81) 2-Ethyltoluene	24.79	105	2766681	27.266	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	2490909	28.723	ng	99
83) n-Decane	25.15	57	1378346	27.307	ng	96
84) Benzyl Chloride	25.22	91	2140806	31.908	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1296940	28.888	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1331268	27.947	ng	100
87) sec-Butylbenzene	25.38	105	3145430	27.525	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	3016689	27.552	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2500322	28.525	ng	98
90) 1,2-Dichlorobenzene	25.74	146	1277785	28.345	ng	100
91) d-Limonene	25.74	68	1049611	29.583	ng	96
92) 1,2-Dibromo-3-Chloropr...	26.26	157	440710	32.373	ng	95
93) n-Undecane	26.65	57	1469089	28.166	ng	97
94) 1,2,4-Trichlorobenzene	27.79	180	966603	30.692	ng	99
95) Naphthalene	27.94	128	3356047	28.842	ng	100
96) n-Dodecane	27.89	57	1529739	26.201	ng	97
97) Hexachlorobutadiene	28.36	225	537772	29.903	ng	99
98) Cyclohexanone	22.51	55	852691	28.820	ng	95
99) tert-Butylbenzene	25.05	119	2409546	28.016	ng	100
100) n-Butylbenzene	26.07	91	2612795	28.727	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130934.D\data.ms

(10) Ethanol (T)
 7.265min (-0.080) 110.49ng

response 2112003

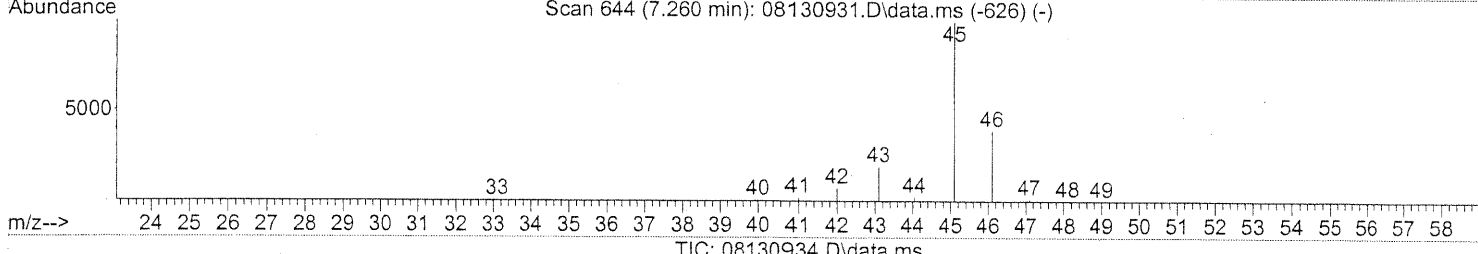
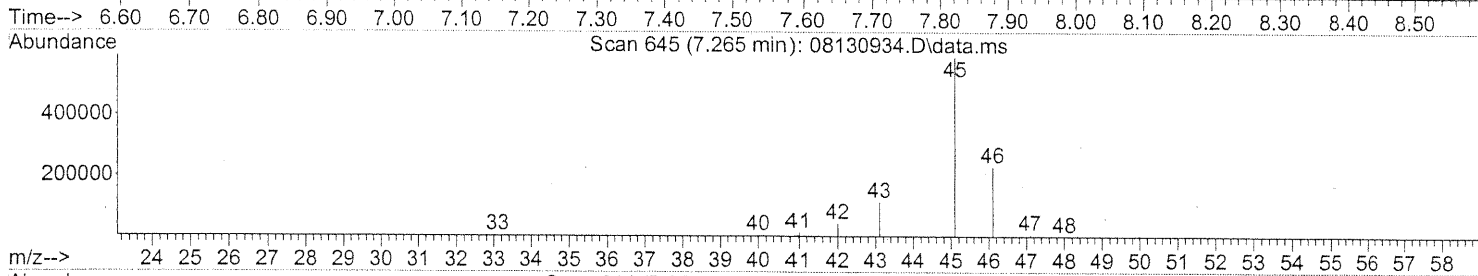
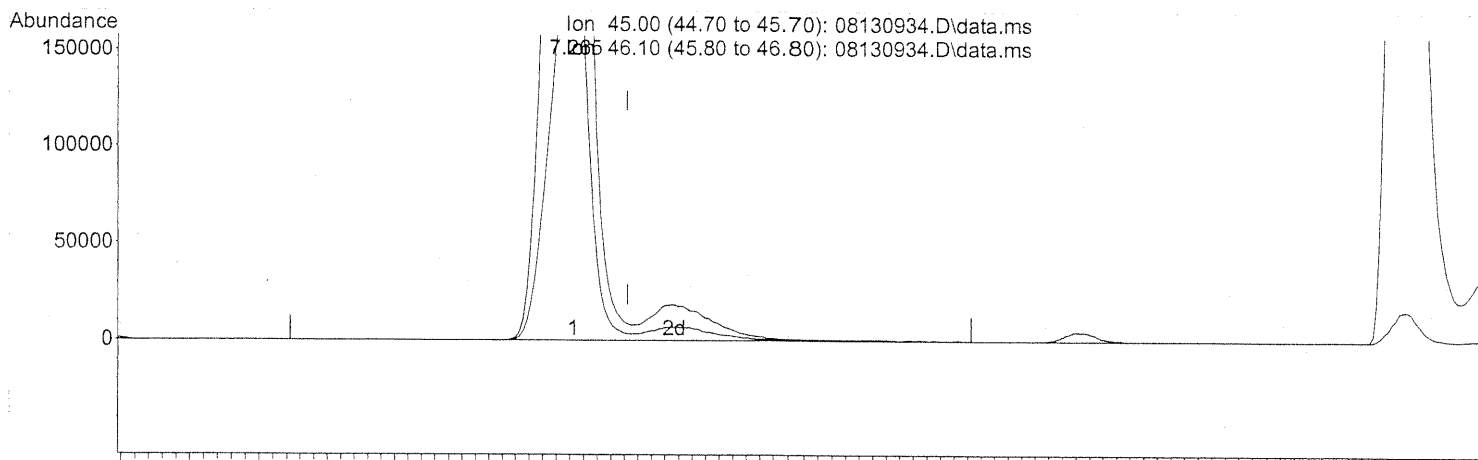
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.87
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130934.D
Acq On : 14 Aug 2009 7:29
Operator : EM
Sample : 25ng TO-15 ICV STD
Misc : S20-08130905/S20-08070903
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.265min (-0.080) 116.80ng m

response 2232593

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.77
0.00	0.00	0.00
0.00	0.00	0.00

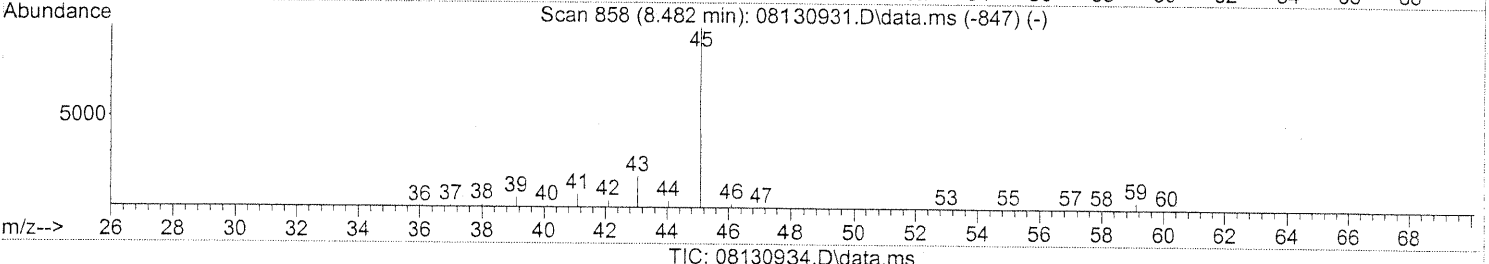
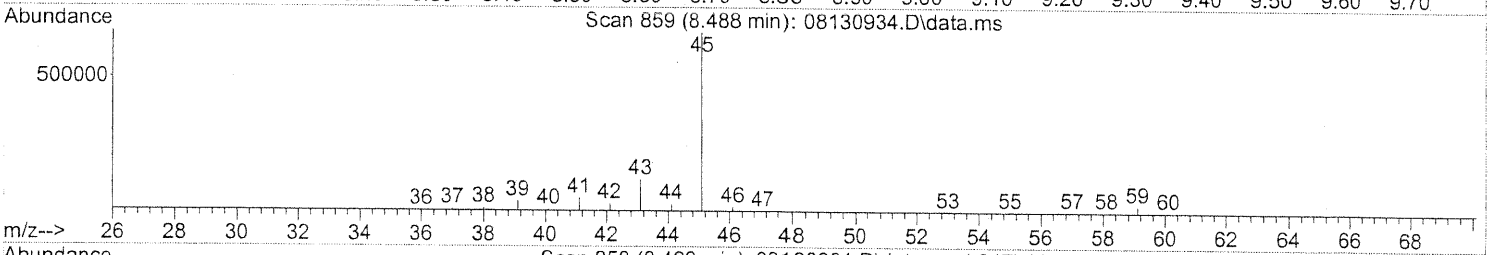
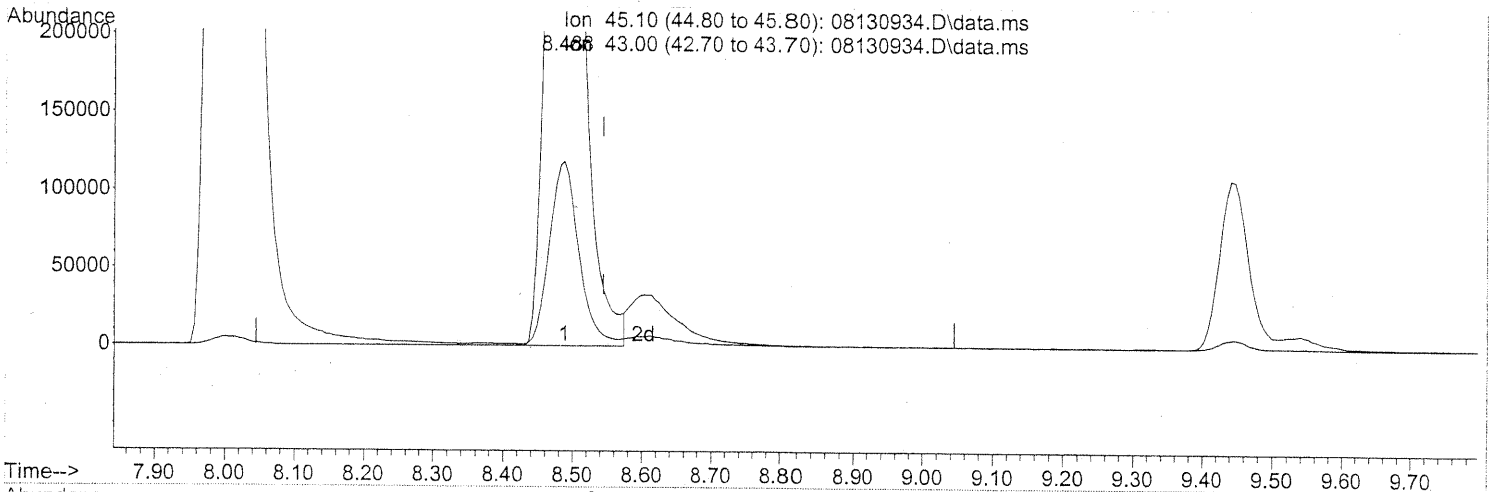
PT -> IC
Em 8/13/09
14

DA 8/13/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130934.D
Acq On : 14 Aug 2009 7:29
Operator : EM
Sample : 25ng TO-15 ICV STD
Misc : S20-08130905/S20-08070903
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



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

8.488min (-0.057) 37.42ng

response 1993602

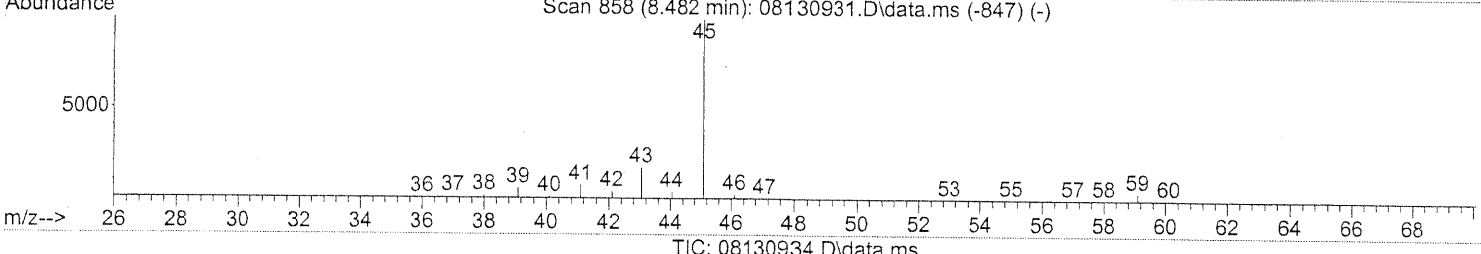
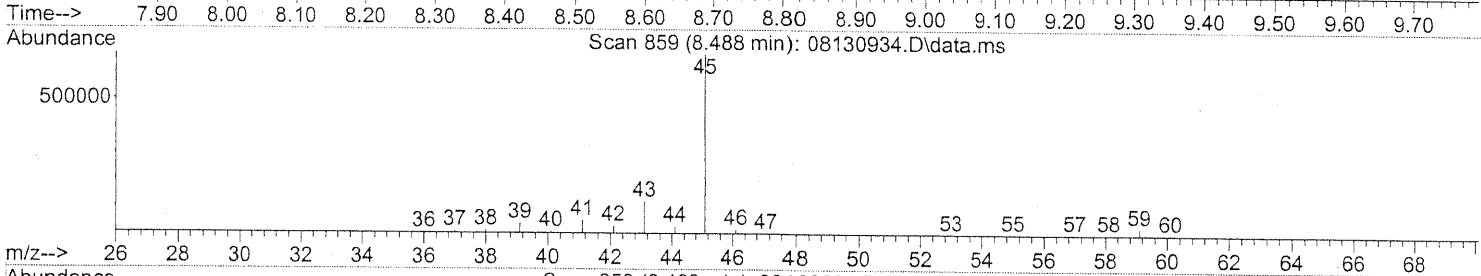
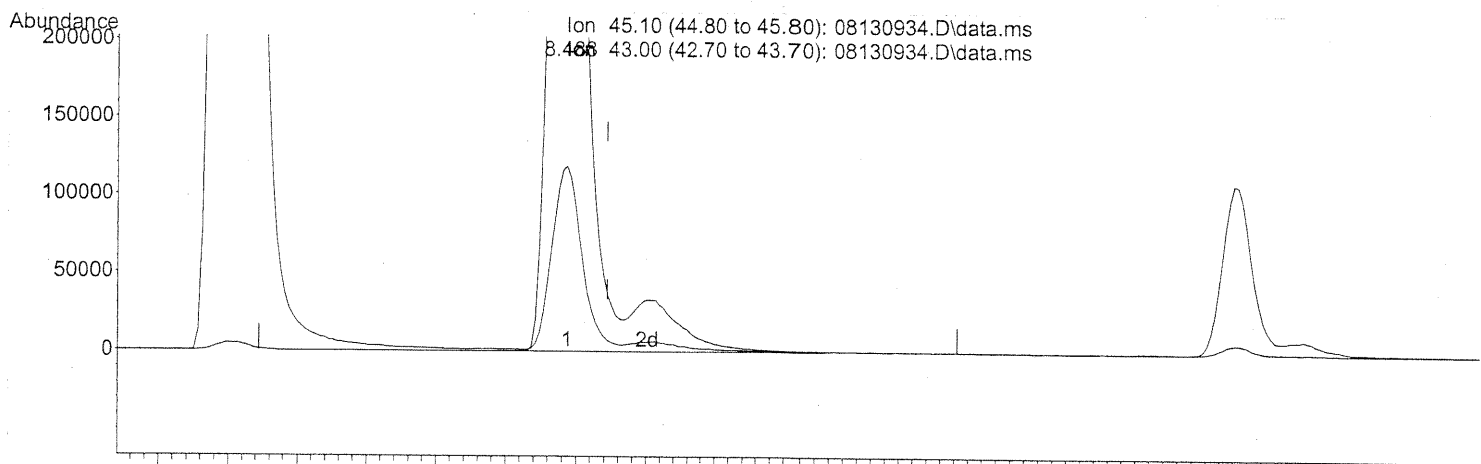
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.46
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130934.D
Acq On : 14 Aug 2009 7:29
Operator : EM
Sample : 25ng TO-15 ICV STD
Misc : S20-08130905/S20-08070903
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



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

8.488min (-0.057) 40.54ng m

response 2159425

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	16.12
0.00	0.00	0.00
0.00	0.00	0.00

PT -> IC
em 8/13/09
14

DA 8/15/09

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INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08130934.D

Acq. Method File: TO15LOW.M

Data File Path: J:\MS09\Data\2009_08\13\

Name: 25ng TO-15 ICV STD

Operator: EM

Misc Info: S20-08130905/S20-08070903

Date Acquired: 8/14/09 7:29

Instrument Name: MS09

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.83	24.8	26.3	94.3	70	130	*
3)	Dichlorodifluoromethane (CFC)	5.00	23.1	26.0	88.8	70	130	*
4)	Chloromethane	5.33	21.9	25.0	87.6	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.59	24.6	26.0	94.6	70	130	*
6)	Vinyl Chloride	5.79	21.9	25.3	86.6	70	130	*
7)	1,3-Butadiene	6.08	24.7	26.8	92.2	70	130	*
8)	Bromomethane	6.58	24.7	25.8	95.7	70	130	*
9)	Chloroethane	6.93	22.9	25.5	89.8	70	130	*
10)	Ethanol	7.27	116.8	130.0	89.8	70	130	*
11)	Acetonitrile	7.57	23.4	26.0	90.0	70	130	*
12)	Acrolein	7.79	27.0	26.3	102.7	70	130	*
13)	Acetone	8.01	112.7	132.0	85.4	70	130	*
14)	Trichlorofluoromethane	8.29	24.2	26.3	92.0	70	130	*
15)	2-Propanol (Isopropanol)	8.49	40.5	48.0	84.4	70	130	*
16)	Acrylonitrile	8.81	27.8	25.8	107.8	70	130	*
17)	1,1-Dichloroethene	9.33	25.5	27.5	92.7	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Alcohol)	9.45	52.2	50.0	104.4	70	130	*
19)	Methylene Chloride	9.54	23.4	26.8	87.3	70	130	*
20)	3-Chloro-1-propene (Allyl Chloride)	9.73	26.5	27.0	98.1	70	130	*
21)	Trichlorotrifluoroethane	9.98	27.7	27.5	100.7	70	130	*
22)	Carbon Disulfide	9.93	24.1	26.0	92.7	70	130	*
23)	trans-1,2-Dichloroethene	11.00	24.7	25.5	96.9	70	130	*
24)	1,1-Dichloroethane	11.31	25.1	26.5	94.7	70	130	*
25)	Methyl tert-Butyl Ether	11.40	25.9	26.3	98.5	70	130	*
26)	Vinyl Acetate	11.56	148.4	126.0	117.8	70	130	*
27)	2-Butanone (MEK)	11.89	29.6	26.8	110.4	70	130	*
28)	cis-1,2-Dichloroethene	12.58	26.2	27.0	97.0	70	130	*
29)	Diisopropyl Ether	12.91	26.2	26.5	98.9	70	130	*
30)	Ethyl Acetate	12.90	52.1	52.0	100.2	70	130	*
31)	n-Hexane	12.93	24.1	26.0	92.7	70	130	*
32)	Chloroform	13.03	25.8	27.5	93.8	70	130	*
34)	Tetrahydrofuran (THF)	13.58	27.2	26.5	102.6	70	130	*
35)	Ethyl tert-Butyl Ether	13.71	25.4	25.5	99.6	70	130	*
36)	1,2-Dichloroethane	14.13	26.4	26.3	100.4	70	130	*
38)	1,1,1-Trichloroethane	14.54	25.7	26.0	98.8	70	130	*
39)	Isopropyl Acetate	15.07	55.0	52.3	105.2	70	130	*
40)	1-Butanol	15.09	59.5	52.8	112.7	70	130	*
41)	Benzene	15.23	24.4	25.8	94.6	70	130	*
42)	Carbon Tetrachloride	15.46	26.8	26.3	101.9	70	130	*
43)	Cyclohexane	15.66	49.9	51.8	96.3	70	130	*
44)	tert-Amyl Methyl Ether	16.10	25.4	25.5	99.6	70	130	*
45)	1,2-Dichloropropane	16.43	25.4	26.0	97.7	70	130	*
46)	Bromodichloromethane	16.70	26.6	26.3	101.1	70	130	*
47)	Trichloroethene	16.77	25.0	25.8	96.9	70	130	*
48)	1,4-Dioxane	16.72	28.7	26.0	110.4	70	130	*
49)	2,2,4-Trimethylpentane (Isooctane)	16.86	24.1	25.8	93.4	70	130	*
50)	Methyl Methacrylate	17.02	54.4	52.8	103.0	70	130	*

EM 8/14/09

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08130934.D

Acq. Method File: TO15LOW.M

Data File Path: J:\MS09\Data\2009_08\13\

Name: 25ng TO-15 ICV STD

Operator: EM

Misc Info: S20-08130905/S20-08070903

Date Acquired: 8/14/09 7:29

Instrument Name: MS09

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	17.21	24.8	25.8	96.1	70	130	*
52)	cis-1,3-Dichloropropene	17.95	26.1	24.5	106.5	70	130	*
53)	4-Methyl-2-pentanone	17.98	28.8	26.8	107.5	70	130	*
54)	trans-1,3-Dichloropropene	18.64	30.4	27.0	112.6	70	130	*
55)	1,1,2-Trichloroethane	18.89	26.8	26.0	103.1	70	130	*
58)	Toluene	19.28	27.0	26.8	100.7	70	130	*
59)	2-Hexanone	19.58	28.7	27.0	106.3	70	130	*
60)	Dibromochloromethane	19.82	30.6	28.3	108.1	70	130	*
61)	1,2-Dibromoethane	20.15	29.3	26.3	111.4	70	130	*
62)	n-Butyl Acetate	20.39	31.3	27.5	113.8	70	130	*
63)	n-Octane	20.56	27.0	26.3	102.7	70	130	*
64)	Tetrachloroethene	20.76	26.4	25.3	104.3	70	130	*
65)	Chlorobenzene	21.62	27.3	26.5	103.0	70	130	*
66)	Ethylbenzene	22.09	27.5	26.3	104.6	70	130	*
67)	m- & p-Xylenes	22.33	54.0	51.5	104.9	70	130	*
68)	Bromoform	22.42	29.2	26.5	110.2	70	130	*
69)	Styrene	22.77	29.5	26.3	112.2	70	130	*
70)	o-Xylene	22.92	27.6	26.0	106.2	70	130	*
71)	n-Nonane	23.17	26.4	25.8	102.3	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.89	28.9	27.0	107.0	70	130	*
74)	Cumene	23.66	26.6	25.3	105.1	70	130	*
75)	alpha-Pinene	24.15	26.4	24.8	106.5	70	130	*
76)	n-Propylbenzene	24.28	26.7	25.3	105.5	70	130	*
77)	3-Ethyltoluene	24.41	28.2	26.3	107.2	70	130	*
78)	4-Ethyltoluene	24.46	28.1	26.3	106.8	70	130	*
79)	1,3,5-Trimethylbenzene	24.55	28.4	26.5	107.2	70	130	*
80)	alpha-Methylstyrene	24.74	29.4	26.0	113.1	70	130	*
81)	2-Ethyltoluene	24.79	27.3	26.0	105.0	70	130	*
82)	1,2,4-Trimethylbenzene	25.05	28.7	25.5	112.5	70	130	*
83)	n-Decane	25.15	27.3	26.3	103.8	70	130	*
84)	Benzyl Chloride	25.22	31.9	26.8	119.0	70	130	*
85)	1,3-Dichlorobenzene	25.25	28.9	26.0	111.2	70	130	*
86)	1,4-Dichlorobenzene	25.33	27.9	26.3	106.1	70	130	*
87)	sec-Butylbenzene	25.38	27.5	25.8	106.6	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.57	27.6	25.0	110.4	70	130	*
89)	1,2,3-Trimethylbenzene	25.57	28.5	26.0	109.6	70	130	*
90)	1,2-Dichlorobenzene	25.74	28.3	25.8	109.7	70	130	*
91)	d-Limonene	25.74	29.6	26.5	111.7	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.26	32.4	27.0	120.0	70	130	*
93)	n-Undecane	26.65	28.2	26.3	107.2	70	130	*
94)	1,2,4-Trichlorobenzene	27.79	30.7	27.3	112.5	70	130	*
95)	Naphthalene	27.94	28.8	25.0	115.2	70	130	*
96)	n-Dodecane	27.89	26.2	24.3	107.8	70	130	*
97)	Hexachlorobutadiene	28.36	29.9	26.8	111.6	70	130	*
98)	Cyclohexanone	22.51	28.8	24.8	116.1	70	130	*
99)	tert-Butylbenzene	25.05	28.0	26.5	105.7	70	130	*
100)	n-Butylbenzene	26.07	28.7	26.5	108.3	70	130	*

* Denotes Passing Criterion

EM 8/14/09

CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:37:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 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	100	-0.02
2	T Propene	2.193	1.858	15.3	81	0.00
3	T Dichlorodifluoromethane (CF	3.130	2.723	13.0	93	0.00
4	T Chloromethane	2.918	2.608	10.6	90	-0.01
5	T 1,2-Dichloro-1,1,2,2-tetra	1.654	1.465	11.4	92	-0.01
6	T Vinyl Chloride	2.878	2.527	12.2	92	-0.01
7	T 1,3-Butadiene	2.044	2.034	0.5	98	-0.01
8	T Bromomethane	1.505	1.453	3.5	98	-0.02
9	T Chloroethane	1.428	1.347	5.7	97	-0.01
10	T Ethanol	1.376	1.274	7.4	91	-0.08
11	T Acetonitrile	3.357	3.171	5.5	96	-0.05
12	T Acrolein	0.897	0.939	-4.7	97	-0.02
13	T Acetone	1.400	1.229	12.2	98	-0.05
14	T Trichlorofluoromethane	2.677	2.437	9.0	93	-0.02
15	T 2-Propanol (Isopropanol)	3.834	4.034	-5.2	114	-0.06
16	T Acrylonitrile	2.033	2.183	-7.4	95	-0.03
17	T 1,1-Dichloroethene	1.571	1.388	11.6	93	-0.02
18	T 2-Methyl-2-Propanol (tert-B	3.892	4.046	-4.0	95	-0.04
19	T Methylene Chloride	1.747	1.491	14.7	94	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.342	2.391	-2.1	96	-0.02
21	T Trichlorotrifluoroethane	1.198	1.129	5.8	93	-0.02
22	T Carbon Disulfide	6.163	5.580	9.5	94	-0.02
23	T trans-1,2-Dichloroethene	2.411	2.299	4.6	94	-0.02
24	T 1,1-Dichloroethane	2.952	2.777	5.9	95	-0.02
25	T Methyl tert-Butyl Ether	4.784	4.576	4.3	95	-0.01
26	T Vinyl Acetate	0.303	0.355	-17.2	100	-0.03
27	T 2-Butanone (MEK)	0.976	1.051	-7.7	94	-0.03
28	T cis-1,2-Dichloroethene	2.250	2.118	5.9	94	-0.02
29	T Diisopropyl Ether	1.386	1.324	4.5	94	-0.02
30	T Ethyl Acetate	0.633	0.631	0.3	94	-0.03
31	T n-Hexane	3.085	2.823	8.5	96	-0.02
32	T Chloroform	2.582	2.373	8.1	93	-0.03
33	S 1,2-Dichloroethane-d4 (SS1)	1.768	1.767	0.1	101	-0.02
34	T Tetrahydrofuran (THF)	1.015	1.053	-3.7	100	-0.02
35	T Ethyl tert-Butyl Ether	1.977	1.885	4.7	94	-0.02
36	T 1,2-Dichloroethane	1.976	1.895	4.1	94	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	101	-0.02
38	T 1,1,1-Trichloroethane	0.455	0.418	8.1	93	-0.02

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Em 8/24/09

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:37:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 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	0.204	0.209	-2.5	93	-0.03
40 T	1-Butanol	0.324	0.357	-10.2	93	-0.06
41 T	Benzene	1.344	1.192	11.3	94	-0.02
42 T	Carbon Tetrachloride	0.376	0.348	7.4	93	-0.02
43 T	Cyclohexane	0.521	0.480	7.9	94	-0.02
44 T	tert-Amyl Methyl Ether	0.945	0.895	5.3	94	-0.01
45 T	1,2-Dichloropropane	0.330	0.311	5.8	93	-0.02
46 T	Bromodichloromethane	0.393	0.378	3.8	92	-0.02
47 T	Trichloroethene	0.341	0.303	11.1	93	-0.02
48 T	1,4-Dioxane	0.239	0.249	-4.2	92	-0.02
49 T	2,2,4-Trimethylpentane (Iso	1.547	1.425	7.9	94	-0.02
50 T	Methyl Methacrylate	0.134	0.128	4.5	92	-0.03
51 T	n-Heptane	0.358	0.333	7.0	94	-0.02
52 T	cis-1,3-Dichloropropene	0.497	0.501	-0.8	93	-0.01
53 T	4-Methyl-2-pentanone	0.291	0.298	-2.4	91	-0.02
54 T	trans-1,3-Dichloropropene	0.435	0.455	-4.6	92	-0.02
55 T	1,1,2-Trichloroethane	0.287	0.274	4.5	91	-0.02
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	95	0.00
57 S	Toluene-d8 (SS2)	2.377	2.460	-3.5	98	-0.01
58 T	Toluene	2.881	2.750	4.5	92	-0.01
59 T	2-Hexanone	1.497	1.560	-4.2	92	-0.02
60 T	Dibromochloromethane	0.615	0.633	-2.9	91	-0.01
61 T	1,2-Dibromoethane	0.648	0.675	-4.2	92	-0.01
62 T	n-Butyl Acetate	1.634	1.828	-11.9	92	-0.02
63 T	n-Octane	0.642	0.639	0.5	93	-0.01
64 T	Tetrachloroethene	0.715	0.690	3.5	91	-0.01
65 T	Chlorobenzene	1.769	1.675	5.3	91	-0.01
66 T	Ethylbenzene	3.111	3.042	2.2	92	0.00
67 T	m- & p-Xylenes	2.466	2.402	2.6	91	-0.02
68 T	Bromoform	0.534	0.575	-7.7	92	-0.01
69 T	Styrene	1.823	1.850	-1.5	91	-0.01
70 T	o-Xylene	2.481	2.414	2.7	91	-0.02
71 T	n-Nonane	1.494	1.491	0.2	93	-0.01
72 T	1,1,2,2-Tetrachloroethane	1.066	1.087	-2.0	92	-0.02
73 S	Bromofluorobenzene (SS3)	0.673	0.660	1.9	92	0.00
74 T	Cumene	3.217	3.121	3.0	91	0.00
75 T	alpha-Pinene	1.587	1.554	2.1	90	0.00
76 T	n-Propylbenzene	3.975	3.895	2.0	91	-0.01

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Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:37:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 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	3.013	2.907	3.5	88	0.00
78 T	4-Ethyltoluene	3.029	2.979	1.7	94	-0.01
79 T	1,3,5-Trimethylbenzene	2.505	2.394	4.4	91	0.00
80 T	alpha-Methylstyrene	1.359	1.374	-1.1	90	-0.01
81 T	2-Ethyltoluene	3.112	2.987	4.0	91	-0.02
82 T	1,2,4-Trimethylbenzene	2.660	2.618	1.6	90	-0.01
83 T	n-Decane	1.548	1.502	3.0	91	-0.02
84 T	Benzyl Chloride	2.058	2.245	-9.1	91	-0.02
85 T	1,3-Dichlorobenzene	1.377	1.325	3.8	91	-0.02
86 T	1,4-Dichlorobenzene	1.461	1.390	4.9	91	-0.01
87 T	sec-Butylbenzene	3.505	3.380	3.6	91	-0.01
88 T	4-Isopropyltoluene (p-Cymen)	3.358	3.321	1.1	91	-0.01
89 T	1,2,3-Trimethylbenzene	2.688	2.624	2.4	90	-0.01
90 T	1,2-Dichlorobenzene	1.382	1.330	3.8	90	-0.01
91 T	d-Limonene	1.088	1.094	-0.6	89	-0.01
92 T	1,2-Dibromo-3-Chloropropane	0.417	0.446	-7.0	91	-0.01
93 T	n-Undecane	1.600	1.573	1.7	91	0.00
94 T	1,2,4-Trichlorobenzene	0.966	0.949	1.8	92	-0.01
95 T	Naphthalene	3.568	3.539	0.8	93	0.00
96 T	n-Dodecane	1.790	1.785	0.3	92	0.00
97 T	Hexachlorobutadiene	0.552	0.539	2.4	92	0.00
98 T	Cyclohexanone	0.907	0.994	-9.6	90	-0.02
99 T	tert-Butylbenzene	2.638	2.577	2.3	90	-0.01
100 T	n-Butylbenzene	2.789	2.703	3.1	90	0.00

(#) = Out of Range

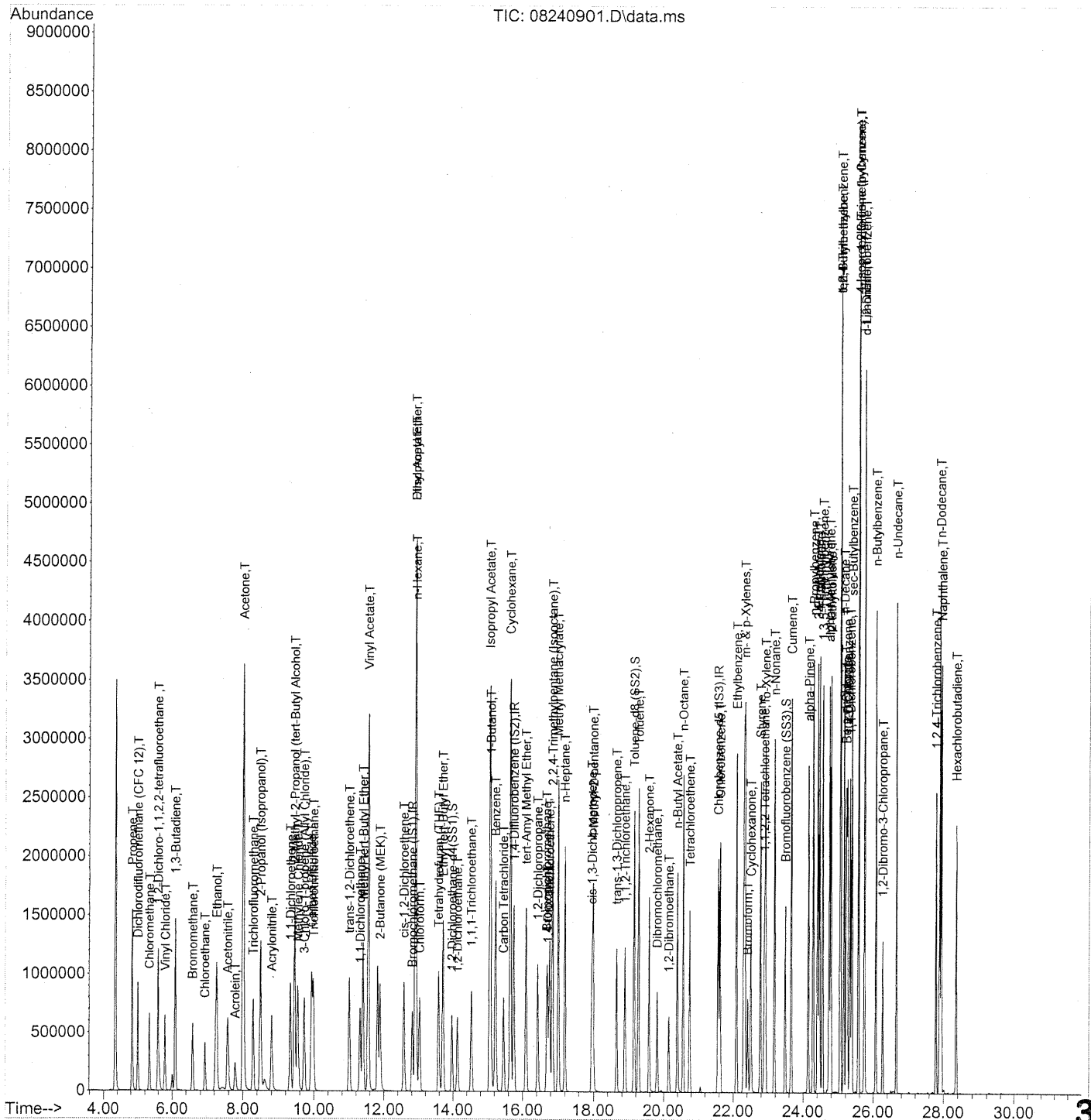
SPCC's out = 0 CCC's out = 0

em 8/24/09

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Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:37:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:37:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	365196	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1878749	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	850898	25.000	ng	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.97	65	645358	24.992	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.96%	✓
57) Toluene-d8 (SS2)	19.15	98	2093614	25.882	ng	-0.01
Spiked Amount	25.000		Recovery	=	103.52%	✓
73) Bromofluorobenzene (SS3)	23.49	174	561720	24.520	ng	0.00
Spiked Amount	25.000		Recovery	=	98.08%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	727394	22.706	ng	96
3) Dichlorodifluoromethan...	5.00	85	1046328	22.881	ng	100
4) Chloromethane	5.33	50	952368	22.346	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	567004	23.464	ng	99
6) Vinyl Chloride	5.80	62	933961	22.216	ng	98
7) 1,3-Butadiene	6.08	54	891501	29.854	ng	98
8) Bromomethane	6.58	94	541179	24.618	ng	100
9) Chloroethane	6.93	64	497711	23.863	ng	100
10) Ethanol	7.27	45	2418507m	120.354	ng	
11) Acetonitrile	7.57	41	1218437	24.845	ng	99
12) Acrolein	7.79	56	370523	28.274	ng	98
13) Acetone	8.01	58	2477230	121.143	ng	91
14) Trichlorofluoromethane	8.29	101	936420	23.947	ng	99
15) 2-Propanol (Isopropanol)	8.49	45	2787099m	49.769	ng	
16) Acrylonitrile	8.81	53	845004	28.449	ng	99
17) 1,1-Dichloroethene	9.33	96	557437	24.291	ng	96
18) 2-Methyl-2-Propanol (t...	9.45	59	2984425	52.494	ng	97
19) Methylene Chloride	9.54	84	583694	22.878	ng	87
20) 3-Chloro-1-propene (Al...	9.73	41	942850	27.558	ng	88
21) Trichlorotrifluoroethane	9.98	151	453684	25.922	ng	97
22) Carbon Disulfide	9.93	76	2184691	24.265	ng	98
23) trans-1,2-Dichloroethene	11.00	61	889903	25.270	ng	92
24) 1,1-Dichloroethane	11.31	63	1075007	24.925	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1824690	26.109	ng	95
26) Vinyl Acetate	11.56	86	653179	147.482	ng	# 68
27) 2-Butanone (MEK)	11.89	72	422072	29.607	ng	# 81
28) cis-1,2-Dichloroethene	12.57	61	844566	25.701	ng	92
29) Diisopropyl Ether	12.90	87	518325	25.610	ng	# 66
30) Ethyl Acetate	12.90	61	491630	53.180	ng	96
31) n-Hexane	12.92	57	1125614	24.978	ng	95

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EM 8/24/09

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:37:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	929061	24.633	ng	100
34) Tetrahydrofuran (THF)	13.58	72	423181	28.552	ng #	86
35) Ethyl tert-Butyl Ether	13.71	87	710351	24.599	ng #	87
36) 1,2-Dichloroethane	14.13	62	733491	25.414	ng	99
38) 1,1,1-Trichloroethane	14.53	97	825212	24.150	ng	99
39) Isopropyl Acetate	15.07	61	822169	53.621	ng #	80
40) 1-Butanol	15.09	56	1390900	57.130	ng	86
41) Benzene	15.23	78	2374109	23.498	ng	99
42) Carbon Tetrachloride	15.46	117	706017	24.999	ng	100
43) Cyclohexane	15.66	84	1941326	49.614	ng	87
44) tert-Amyl Methyl Ether	16.10	73	1747812	24.613	ng	99
45) 1,2-Dichloropropane	16.43	63	615393	24.829	ng	98
46) Bromodichloromethane	16.69	83	767494	25.966	ng	98
47) Trichloroethene	16.77	130	602821	23.499	ng	100
48) 1,4-Dioxane	16.71	88	501197	27.890	ng	88
49) 2,2,4-Trimethylpentane...	16.86	57	2784839	23.949	ng	94
50) Methyl Methacrylate	17.02	100	513094	50.822	ng	91
51) n-Heptane	17.21	71	662839	24.644	ng	95
52) cis-1,3-Dichloropropene	17.95	75	933708	25.001	ng	100
53) 4-Methyl-2-pentanone	17.98	58	615879	28.208	ng	95
54) trans-1,3-Dichloropropene	18.64	75	939928	28.769	ng	100
55) 1,1,2-Trichloroethane	18.88	97	542316	25.124	ng	98
58) Toluene	19.28	91	2527089	25.771	ng	100
59) 2-Hexanone	19.58	43	1459824	28.644	ng	99
60) Dibromochloromethane	19.82	129	620427	29.631	ng	100
61) 1,2-Dibromoethane	20.15	107	609059	27.597	ng	100
62) n-Butyl Acetate	20.39	43	1711396	30.776	ng	98
63) n-Octane	20.56	57	582656	26.656	ng	92
64) Tetrachloroethene	20.75	166	598673	24.603	ng	99
65) Chlorobenzene	21.62	112	1539344	25.562	ng	100
66) Ethylbenzene	22.09	91	2743823	25.917	ng	99
67) m- & p-Xylenes	22.33	91	4250450	50.642	ng	100
68) Bromoform	22.41	173	504528	27.760	ng	100
69) Styrene	22.77	104	1687723	27.204	ng	100
70) o-Xylene	22.92	91	2177176	25.785	ng	99
71) n-Nonane	23.17	43	1344652	26.445	ng	92
72) 1,1,2,2-Tetrachloroethane	22.89	83	991495	27.336	ng	99
74) Cumene	23.66	105	2740536	25.033	ng	99
75) alpha-Pinene	24.15	93	1338175	24.775	ng	99
76) n-Propylbenzene	24.28	91	3419903	25.275	ng	99
77) 3-Ethyltoluene	24.41	105	2700912	26.334	ng	100
78) 4-Ethyltoluene	24.46	105	2768447	26.850	ng	98
79) 1,3,5-Trimethylbenzene	24.55	105	2224355	26.091	ng	100

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Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:37:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

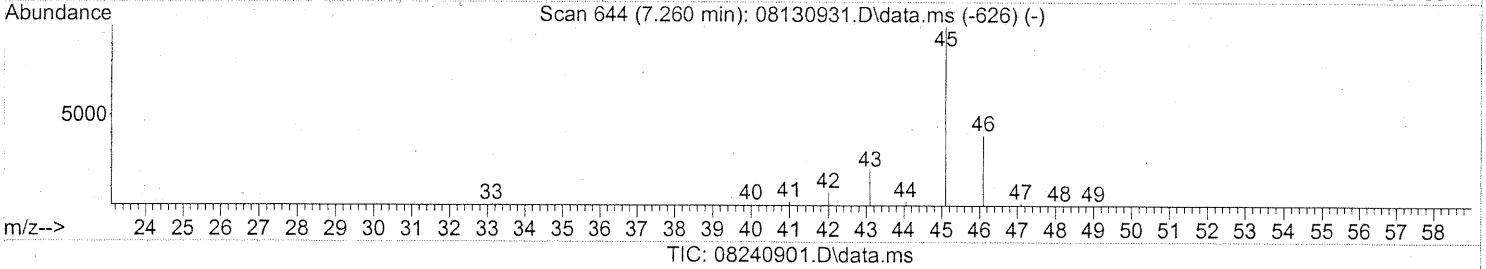
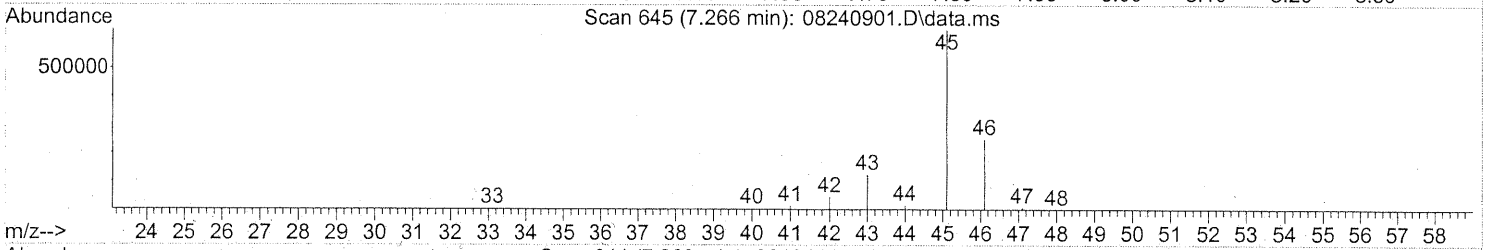
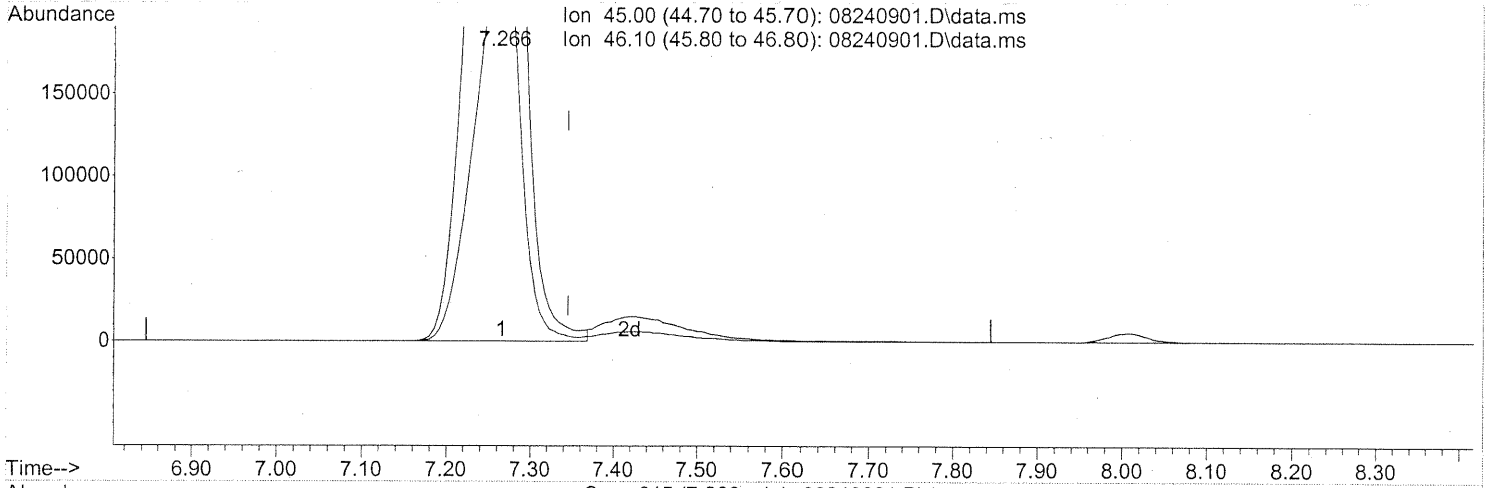
Internal Standards	R.T.	QI on	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1253207	27.091	ng	99
81) 2-Ethyltoluene	24.79	105	2673791	25.245	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2361155	26.085	ng	99
83) n-Decane	25.15	57	1380387	26.200	ng	95
84) Benzyl Chloride	25.22	91	2101152	30.003	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1230985	26.268	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1253577	25.212	ng	100
87) sec-Butylbenzene	25.38	105	3048604	25.558	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	2915929	25.514	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2393625	26.161	ng	99
90) 1,2-Dichlorobenzene	25.75	146	1199706	25.497	ng	100
91) d-Limonene	25.74	68	1016060	27.435	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.26	157	417741	29.398	ng	96
93) n-Undecane	26.65	57	1461233	26.840	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	904179	27.505	ng	99
95) Naphthalene	27.94	128	3192223	26.283	ng	100
96) n-Dodecane	27.89	57	1506744	24.725	ng	96
97) Hexachlorobutadiene	28.36	225	504945	26.899	ng	99
98) Cyclohexanone	22.51	55	828858	26.839	ng	95
99) tert-Butylbenzene	25.05	119	2324709	25.896	ng	99
100) n-Butylbenzene	26.07	91	2511164	26.451	ng	100

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:35:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.266min (-0.080) 115.04ng
 response 2311764

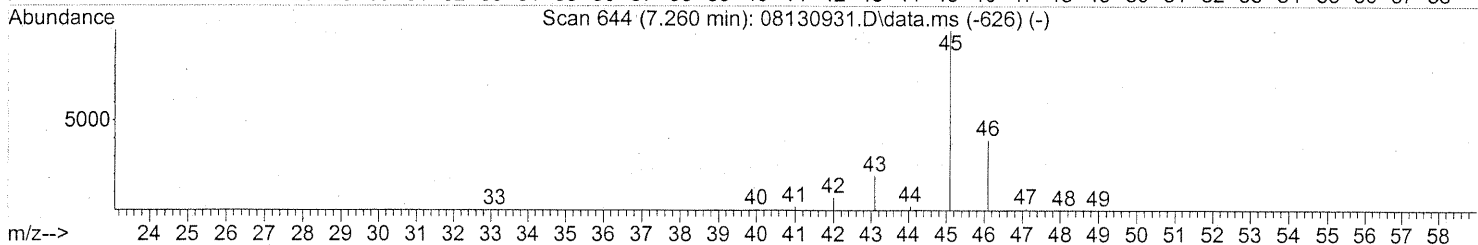
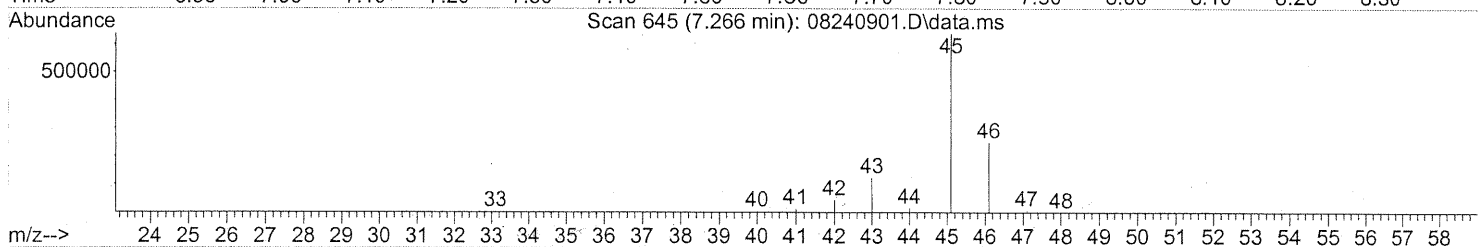
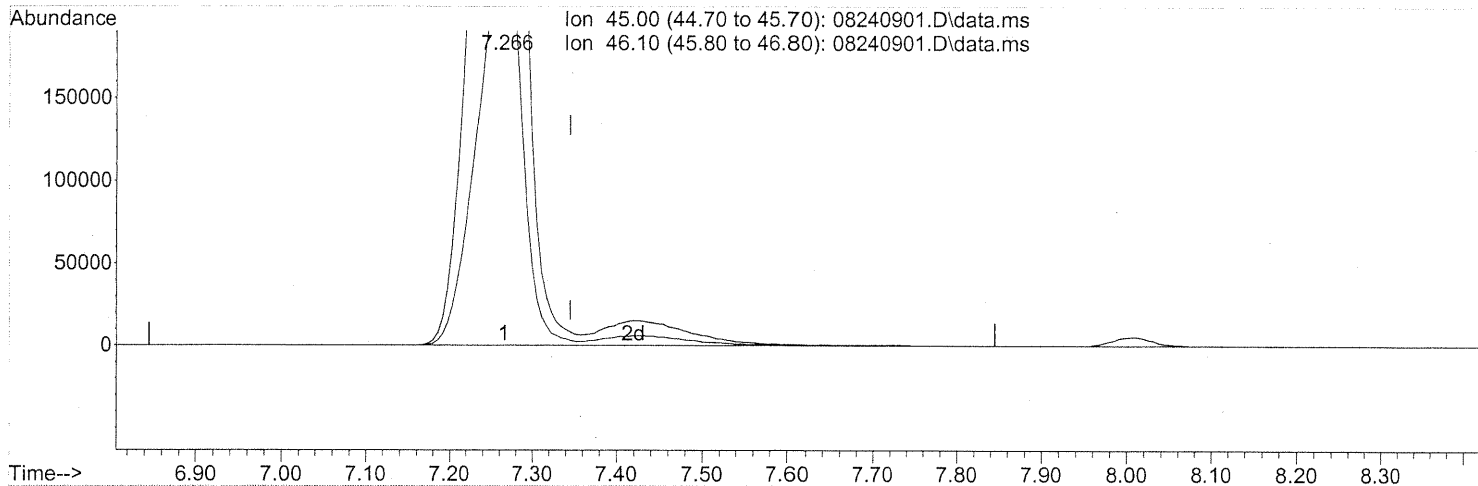
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.22
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:35:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.266min (-0.080) 120.35ng m
 response 2418507

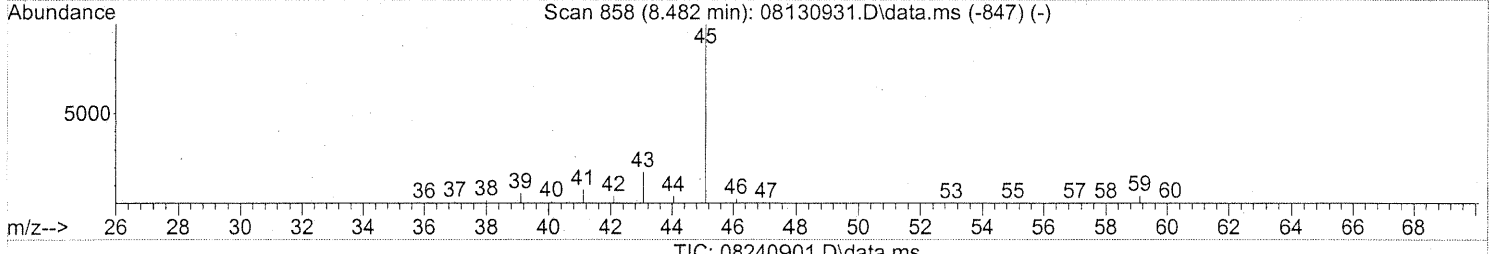
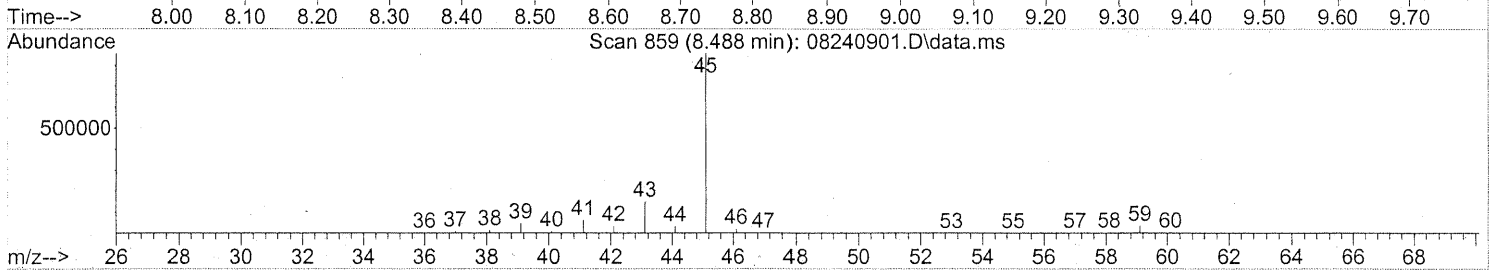
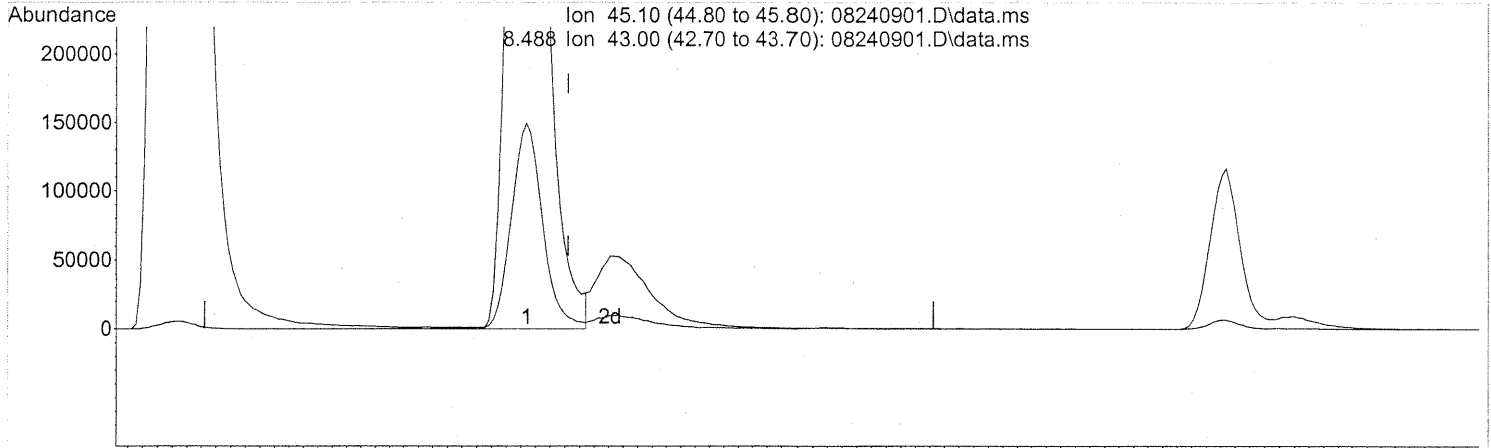
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.49
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
 EM 8/24/09
 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:35:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.488min (-0.057) 44.74ng

response 2505557

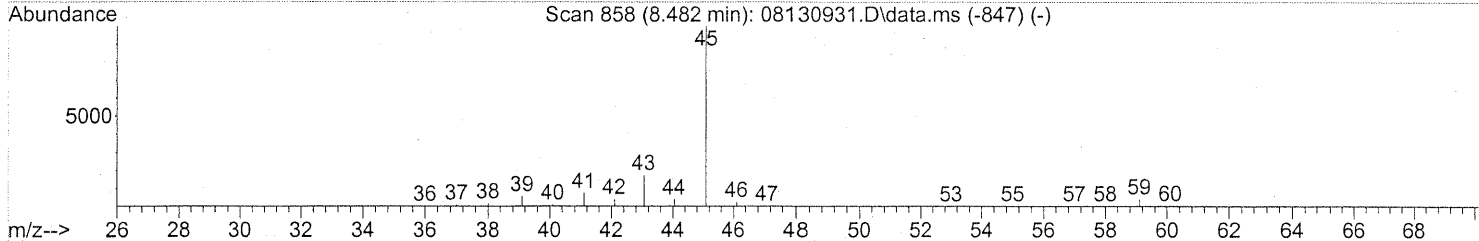
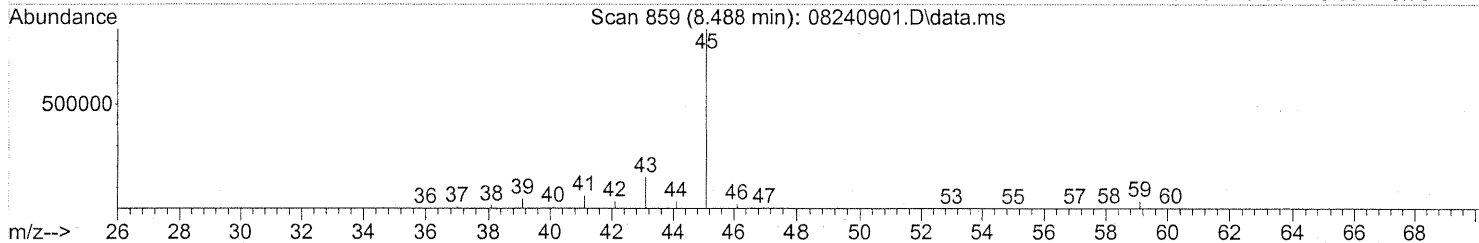
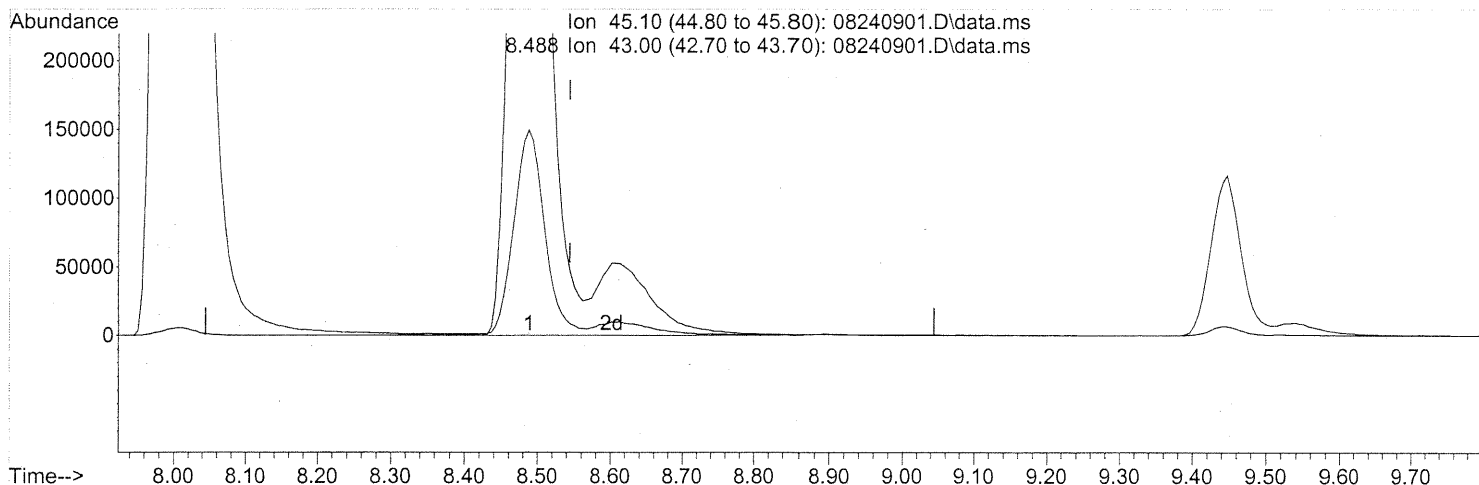
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.35
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 08:35:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.488min (-0.057) 49.77ng m

response 2787099

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	15.59
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC

em 8/24/09

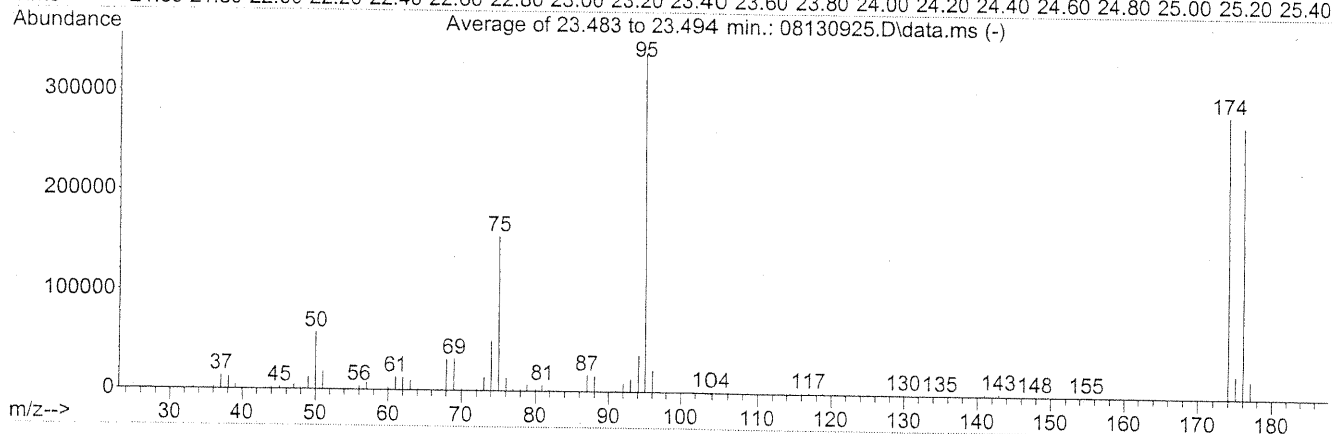
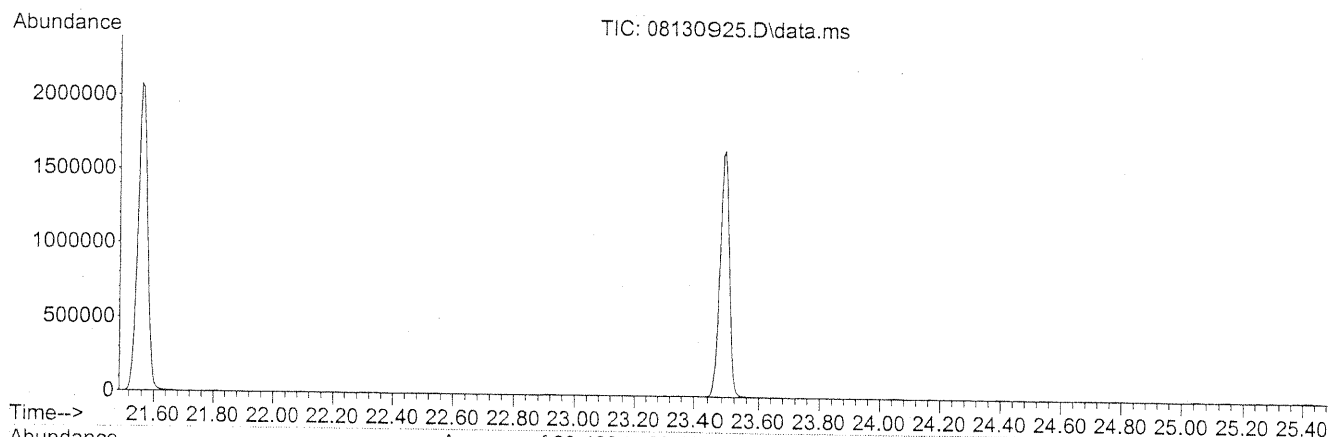
8/25/09

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130925.D
 Acq On : 14 Aug 2009 1:14
 Operator : EM
 Sample : TO-15 BFB Standard (200ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Mon Jul 27 09:38:25 2009



AutoFind: Scans 3484, 3485, 3486; Background Corrected with Scan 3474

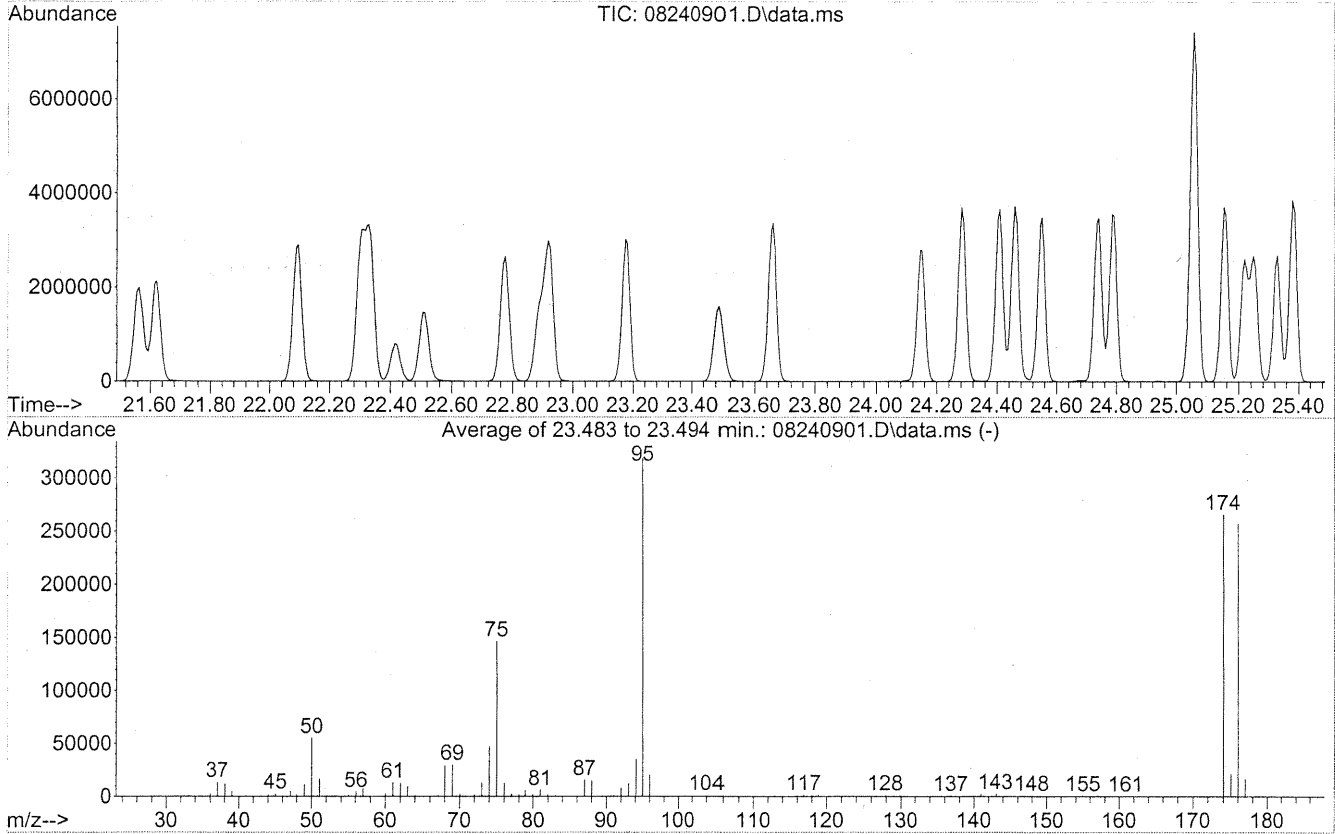
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	57432	PASS
75	95	30	66	45.6	154987	PASS
95	95	100	100	100.0	339563	PASS
96	95	5	9	6.4	21896	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.2	282475	PASS
175	174	4	9	8.1	22795	PASS
176	174	93	101	96.4	272171	PASS
177	176	5	9	6.4	17522	PASS

EM 8/14/09

Data Path : J:\MS09\Data\2009_08\24\
 Data File : 08240901.D
 Acq On : 24 Aug 2009 7:22
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 14 07:39:36 2009



AutoFind: Scans 3484, 3485, 3486; Background Corrected with Scan 3474

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.3	55123	PASS
75	95	30	66	45.9	146304	PASS
95	95	100	100	100.0	318528	PASS
96	95	5	9	6.3	20051	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.5	266048	PASS
175	174	4	9	7.9	21115	PASS
176	174	93	101	96.7	257387	PASS
177	176	5	9	6.4	16469	PASS

Em 8/24/09

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment	
1	08/13/09 6:23	08130901.D	25ng TO-15 CCV STD	S20-07200901/S20-07240905	EM	1	Pass	
2	08/13/09 7:04	08130902.D	25ng TO-15 AC&F STD	S20-07200901/S20-07220902	EM	16	Pass	
3	08/13/09 8:54	08130903.D	TO-15 Method Blank (1000ml)	S20-07200901	EM	1	Pass as MB	
4	08/13/09 10:01	08130904.D	P0902767-001 (5ml)	[REDACTED]	EM	1	Case, File	
5	08/13/09 10:43	08130905.D	P0902767-002 (0.5ml)	[REDACTED]	EM	1	↓	
6	08/13/09 11:34	08130906.D	P0902780-001 (0.5ml)	[REDACTED]	EM	1	Case, File	
7	08/13/09 12:15	08130907.D	P0902678-013 (30ml)	[REDACTED]	EM	5		
8	08/13/09 12:57	08130908.D	25ng TO-15 LCS STD	S20-07200901/S20-08070903	EM	2	Pass, Acrylonitrile	
9	08/13/09 13:52	08130909.D	P0902780-002 (0.5ml)	[REDACTED]	EM	1		
10	08/13/09 14:33	08130910.D	P0902780-001 (1ml)	[REDACTED]	EM	1		
11	08/13/09 15:15	08130911.D	P0902780-001 dup (1ml)	[REDACTED]	EM	1	Pass as Lab Dup.	
12	08/13/09 16:15	08130912.D	P0902780-002 dil (0.1ml)	[REDACTED]	EM	1		
13	08/13/09 16:56	08130913.D	25ng std check	S20-08130905/S20-08070903	EM	2		
14	08/13/09 17:37	08130914.D	P0902678-013 dil (15ml)	[REDACTED]	EM	5		
15	08/13/09 18:19	08130915.D	P0902678-005 dil (100ml)	[REDACTED]	EM	9		
16	08/13/09 19:00	08130916.D	P0902678-011 dil (100ml)	[REDACTED]	EM	14		
17	08/13/09 19:41	08130917.D	P0902678-012 dil (100ml)	[REDACTED]	EM	15		
18	08/13/09 20:23	08130918.D	P0902678-014 (1000ml)	[REDACTED]	EM	6		
19	08/13/09 21:04	08130919.D	P0902678-014 dil (100ml)	[REDACTED]	EM	6		
20	08/13/09 21:46	08130920.D	P0902678-015 (1000ml)	[REDACTED]	EM	7		
21	08/13/09 22:28	08130921.D	P0902678-015 dil (100ml)	[REDACTED]	EM	7		
22	08/13/09 23:09	08130922.D	5ng std check	S20-08130905/S20-08100904	EM	1		
23	08/13/09 23:51	08130923.D	25ng std check	S20-08130905/S20-08100902	EM	1		
24	08/14/09 0:33	08130924.D	System Check		EM	4		
25	08/14/09 1:14	08130925.D	TO-15 BFB Standard (200ml)	S20-08130905	EM	1	Pass	
26	08/14/09 1:56	08130926.D	0.1ng TO-15 ICAL STD	S20-08130905/S20-07240912	EM	8	ICAL R9081309.M	
27	08/14/09 2:38	08130927.D	0.2ng TO-15 ICAL STD	S20-08130905/S20-07240912	EM	8		
28	08/14/09 3:19	08130928.D	0.5ng TO-15 ICAL STD	S20-08130905/S20-08100904	EM	1		
29	08/14/09 4:01	08130929.D	1.0ng TO-15 ICAL STD	S20-08130905/S20-08100904	EM	1		
30	08/14/09 4:43	08130930.D	5ng TO-15 ICAL STD	S20-08130905/S20-08100904	EM	1		
31	08/14/09 5:24	08130931.D	25ng TO-15 ICAL STD	S20-08130905/S20-08100902	EM	1		
32	08/14/09 6:06	08130932.D	50ng TO-15 ICAL STD	S20-08130905/S20-08100902	EM	1		
33	08/14/09 6:47	08130933.D	100ng TO-15 ICAL STD	S20-08130905/S20-08100902	EM	1		
34	08/14/09 7:29	08130934.D	25ng TO-15 ICV STD	S20-08130905/S20-08070903	EM	2		Pass
35	08/14/09 8:26	08130935.D	25ng TO-15 ICV STD	S20-08130905/S20-07270906	EM	10		Case, File Extra

ICAL R9081309.M: 0.2ng-100ng: 1-Butanol, n-Butyl Acetate, 4-methyl-2-pentanone
0.5ng-100 ng: Vinyl Acetate, 2-Butanone, Ethyl Acetate
Methyl Methacrylate, 2-Hexanone
0.1ng-50ng: TBA
0.1ng-100ng: Rest of compounds.

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
13	08/21/09 17:34	08210913.D	P0902834-001 (1000ml)		EM	5	
14	08/21/09 18:15	08210914.D	P0902860-001 (1000ml)		EM	3	
15	08/21/09 18:56	08210915.D	P0902860-002 (1000ml)		EM	16	
16	08/21/09 19:38	08210916.D	25ng TO-15 LCSD STD	S20-08130905/S20-08070903	EM	2	Pass
17	08/21/09 20:19	08210917.D	P0902866-001 (1000ml)		EM	14	
18	08/21/09 21:01	08210918.D	P0902866-002 (1000ml)		EM	15	
19	08/21/09 21:43	08210919.D	P0902807-008 (400ml)		EM	13	
20	08/21/09 22:25	08210920.D	P0902807-001 (25ml)		EM	6	Case File
21	08/21/09 23:06	08210921.D	P0902807-002 dil (25ml)		EM	7	
22	08/21/09 23:48	08210922.D	P0902807-003 dil (70ml)		EM	8	
23	08/22/09 0:30	08210923.D	P0902807-004 dil (25ml)		EM	9	
24	08/22/09 1:12	08210924.D	P0902807-005 (15ml)		EM	10	
25	08/22/09 1:54	08210925.D	P0902807-006 dil (25ml)		EM	11	
26	08/22/09 2:35	08210926.D	0.5ng TO-15 RL Check	S20-08130905/S20-07240909	EM	1	
27	08/22/09 3:17	08210927.D	System Check		EM	4	

EM
8/25/09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/24/09 7:22	08240901.D	25ng TO-15 CCV STD	S20-08130905/S20-08100902	EM	1	Pass
2	08/24/09 8:03	08240902.D	TO-15 Method Blank (1000ml)	S20-08130905	EM	1	Case File
3	08/24/09 9:03	08240903.D	TO-15 Method Blank (1000ml)	S20-08130905	EM	1	Pass as MB
4	08/24/09 9:47	08240904.D	P0902807-001 (60ml)		EM	6	
5	08/24/09 10:29	08240905.D	25ng TO-15 LCS STD	S20-08130905/S20-08070903	EM	2	Pass
6	08/24/09 11:23	08240906.D	P0902807-001 dil (15ml)		EM	6	
7	08/24/09 12:14	08240907.D	P0902807-002 (80ml)		EM	7	
8	08/24/09 12:55	08240908.D	P0902807-003 (140ml)		EM	8	
9	08/24/09 13:46	08240909.D	P0902807-004 (100ml)		EM	9	
10	08/24/09 14:28	08240910.D	P0902807-006 (80ml)		EM	11	
11	08/24/09 15:39	08240911.D	P0902857-002 (15ml)		EM	5	
12	08/24/09 16:20	08240912.D	P0902807-007 (50ml)		EM	12	
13	08/24/09 17:02	08240913.D	P0902807-007 dup (50ml)		EM	12	Case File, Extra
14	08/24/09 17:43	08240914.D	P0902807-007 dil (15ml)		EM	12	Case File
15	08/24/09 18:24	08240915.D	P0902807-007 dup dil (15ml)		EM	12	↓
16	08/24/09 19:06	08240916.D	25ng TO-15 LCSD STD	S20-08130905/S20-08070903	EM	2	Pass
17	08/24/09 19:47	08240917.D	P0902832-001 (1000ml)	Eng. H&E 101654	EM	6	
18	08/24/09 20:29	08240918.D	P0902832-002 (1000ml)	Eng. H&E 101655	EM	7	
19	08/24/09 21:10	08240919.D	P0902832-002 dup (1000ml)	Eng. H&E 101655	EM	7	Pass as Lab Dup.
20	08/24/09 21:52	08240920.D	P0902832-003 (1000ml)	Eng. H&E 101653	EM	8	
21	08/24/09 22:34	08240921.D	P0902832-004 (1000ml)	Eng. H&E 101657	EM	9	
22	08/24/09 23:16	08240922.D	P0902832-005 (1000ml)	Eng. H&E 101658	EM	10	
23	08/24/09 23:57	08240923.D	P0902832-005 dil (100ml)	Eng. H&E 101658	EM	10	Case File
24	08/25/09 0:39	08240924.D	P0902832-006 (1000ml)	Eng. H&E 101656	EM	11	
25	08/25/09 1:21	08240925.D	system Check		EM	4	