

LABORATORY REPORT

September 23, 2009

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

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on August 26, 2009. For your reference, these analyses have been assigned our service request number P0902975.

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 400 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, Inc.
Project: 16512

CAS Project No: P0902975

CASE NARRATIVE

The samples were received intact under chain of custody on August 26, 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: P0902975

Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>Pi1 (Hg)</u>	<u>Pi1 (psig)</u>	<u>Pf1</u>	<u>Pi2 (Hg)</u>	<u>Pi2 (psig)</u>	<u>Pf2</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Bottle Order #</u>
P0902975-001.01	103993	6.0 L-Summa Canister Ambient	-7.4	-3.6	3.5				AC00719	14338		
P0902975-002.01	103994	6.0 L-Summa Canister Ambient	-8.1	-4.0	3.6				AC01482	14338		
P0902975-003.01	103995	6.0 L-Summa Canister Ambient	-3.6	-1.8	3.6				AC01034	14338		
P0902975-004.01	103996	6.0 L-Summa Canister Ambient	-4.6	-2.3	3.5				AC00623	14338		
P0902975-005.01	103997	6.0 L-Summa Canister Ambient	-5.6	-2.8	3.5				AC01392	14338		

Miscellaneous Items - received

- AVG01139
- FC00217
- AVG01002
- AVG01066
- AVG01149
- FC00581
- AVG00647
- FC00299
- FC00429
- FC00407
- FC00545

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Inc.

Work order: P0902975

Project: 16512

Sample(s) received on: 8/26/2009

Date opened: 8/26/2009

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 type="checkbox"/> | <input checked="" 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 type="checkbox"/> | <input checked="" 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
P0902975-001.01	6.0 L Ambient Can					
P0902975-002.01	6.0 L Ambient Can					
P0902975-003.01	6.0 L Ambient Can					
P0902975-004.01	6.0 L Ambient Can					
P0902975-005.01	6.0 L Ambient Can					

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

Missing chain of custody form _____

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 103993
Client Project ID: 16512

CAS Project ID: P0902975
 CAS Sample ID: P0902975-001

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: AC00719

Date Collected: 8/25/09
Date Received: 8/26/09
Date Analyzed: 9/1 - 9/2/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.5


Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	39	0.82	23	0.48	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.82	0.46	0.17	
74-87-3	Chloromethane	0.72	0.16	0.35	0.079	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.82	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.064	
106-99-0	1,3-Butadiene	1.4	0.16	0.62	0.074	
74-83-9	Bromomethane	ND	0.16	ND	0.042	
75-00-3	Chloroethane	ND	0.16	ND	0.062	
64-17-5	Ethanol	880	8.2	460	4.4	D
75-05-8	Acetonitrile	290	0.82	170	0.49	D
107-02-8	Acrolein	5.5	0.82	2.4	0.36	
67-64-1	Acetone	87	8.2	37	3.5	
75-69-4	Trichlorofluoromethane	1.2	0.16	0.21	0.029	
67-63-0	2-Propanol (Isopropyl Alcohol)	36	0.82	15	0.33	
107-13-1	Acrylonitrile	ND	0.82	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.041	
75-09-2	Methylene Chloride	2.7	0.82	0.78	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.052	
76-13-1	Trichlorotrifluoroethane	0.50	0.16	0.066	0.021	
75-15-0	Carbon Disulfide	ND	0.82	ND	0.26	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.041	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	ND	0.046	
108-05-4	Vinyl Acetate	ND	8.2	ND	2.3	
78-93-3	2-Butanone (MEK)	32	0.82	11	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.

D = The reported result is from a dilution.

Verified By:  Date: 9/10/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 103993
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: AC00719

CAS Project ID: P0902975
CAS Sample ID: P0902975-001

Date Collected: 8/25/09
Date Received: 8/26/09
Date Analyzed: 9/1 - 9/2/09
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.041	
141-78-6	Ethyl Acetate	19	1.6	5.3	0.46	
110-54-3	n-Hexane	17	0.82	4.8	0.23	
67-66-3	Chloroform	0.43	0.16	0.089	0.034	
109-99-9	Tetrahydrofuran (THF)	43	0.82	15	0.28	
107-06-2	1,2-Dichloroethane	0.34	0.16	0.084	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.030	
71-43-2	Benzene	12	0.16	3.6	0.051	
56-23-5	Carbon Tetrachloride	0.47	0.16	0.075	0.026	
110-82-7	Cyclohexane	1.9	0.82	0.55	0.24	
78-87-5	1,2-Dichloropropane	0.18	0.16	0.039	0.035	
75-27-4	Bromodichloromethane	ND	0.16	ND	0.024	
79-01-6	Trichloroethene	1.9	0.16	0.35	0.031	
123-91-1	1,4-Dioxane	ND	0.82	ND	0.23	
80-62-6	Methyl Methacrylate	ND	1.6	ND	0.40	
142-82-5	n-Heptane	8.8	0.82	2.1	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.82	ND	0.18	
108-10-1	4-Methyl-2-pentanone	1.1	0.82	0.26	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.82	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.030	
108-88-3	Toluene	40	0.82	11	0.22	
591-78-6	2-Hexanone	1.7	0.82	0.42	0.20	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.021	
123-86-4	n-Butyl Acetate	4.3	0.82	0.91	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: _____

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: 103993
Client Project ID: 16512

CAS Project ID: P0902975
 CAS Sample ID: P0902975-001

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: AC00719

Date Collected: 8/25/09
Date Received: 8/26/09
Date Analyzed: 9/1 - 9/2/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	4.5	0.82	0.95	0.18	
127-18-4	Tetrachloroethene	2.5	0.16	0.36	0.024	
108-90-7	Chlorobenzene	ND	0.16	ND	0.036	
100-41-4	Ethylbenzene	8.3	0.82	1.9	0.19	
179601-23-1	m,p-Xylenes	28	0.82	6.5	0.19	
75-25-2	Bromoform	ND	0.82	ND	0.079	
100-42-5	Styrene	1.0	0.82	0.24	0.19	
95-47-6	o-Xylene	9.6	0.82	2.2	0.19	
111-84-2	n-Nonane	2.9	0.82	0.55	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.024	
98-82-8	Cumene	ND	0.82	ND	0.17	
80-56-8	alpha-Pinene	51	0.82	9.1	0.15	
103-65-1	n-Propylbenzene	2.0	0.82	0.40	0.17	
622-96-8	4-Ethyltoluene	3.6	0.82	0.74	0.17	
108-67-8	1,3,5-Trimethylbenzene	3.2	0.82	0.65	0.17	
95-63-6	1,2,4-Trimethylbenzene	12	0.82	2.4	0.17	
100-44-7	Benzyl Chloride	ND	0.16	ND	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.16	ND	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.16	ND	0.027	
5989-27-5	d-Limonene	15	0.82	2.7	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.82	ND	0.085	
120-82-1	1,2,4-Trichlorobenzene	ND	0.82	ND	0.11	
91-20-3	Naphthalene	2.7	0.82	0.52	0.16	
87-68-3	Hexachlorobutadiene	ND	0.82	ND	0.077	

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

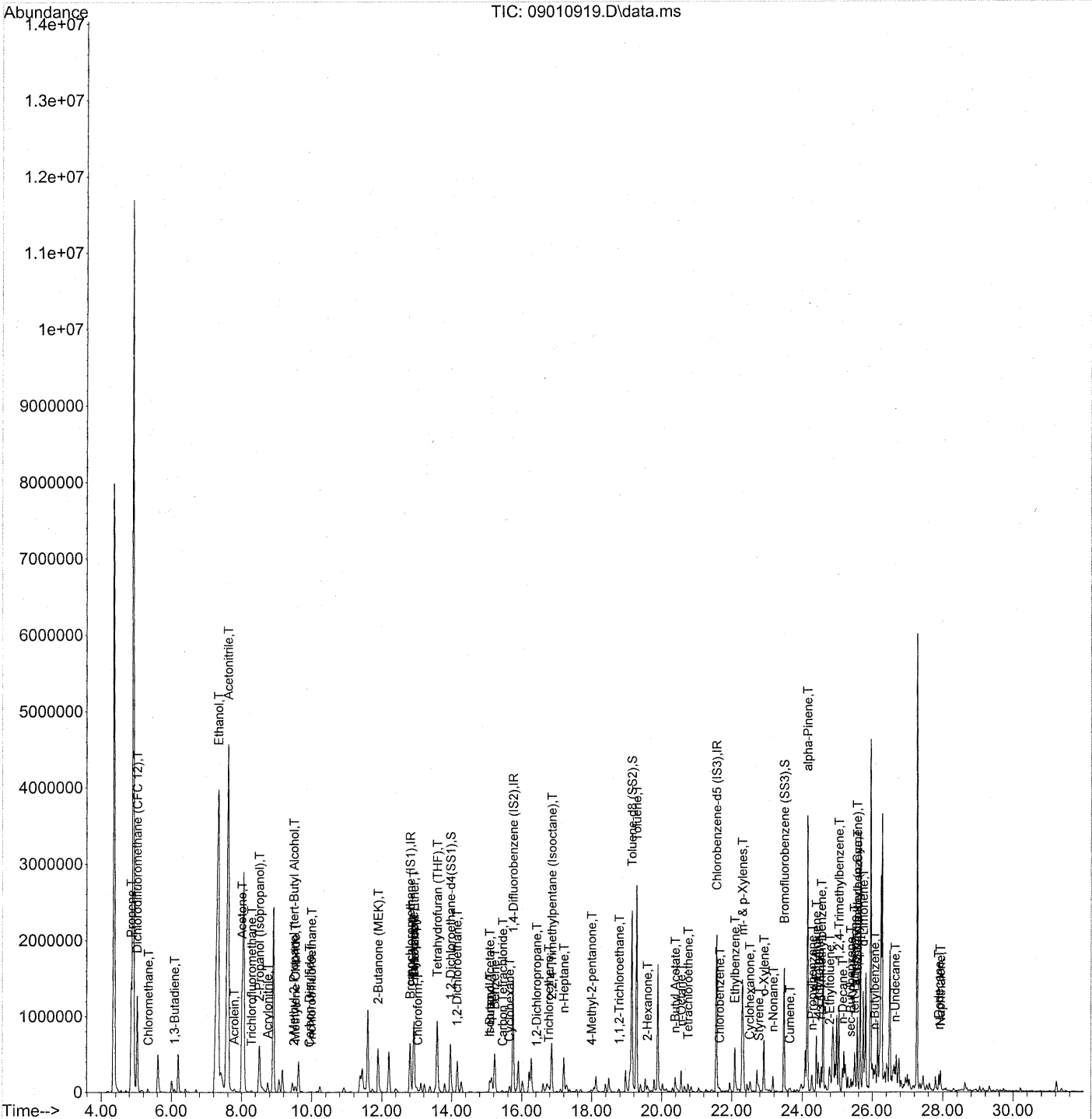
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: 9/1/09

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 04 15:11:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
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 Quant Title : EPA 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	341398	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1740945	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	865540	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	624615	25.875	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	103.52%	
57) Toluene-d8 (SS2)	19.15	98	2037708	24.764	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	99.04%	
73) Bromofluorobenzene (SS3)	23.49	174	573154	24.596	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	98.40%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	717341	23.953	ng	# 86
3) Dichlorodifluoromethan...	5.02	85	58654	1.372	ng	99
4) Chloromethane	5.35	50	17448	0.438	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1024	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	23513	0.842	ng	94
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.34	45	12066092	642.308	ng	See Dil 100
11) Acetonitrile	7.61	41	9142684	199.425	ng	# See Dil 99
12) Acrolein	7.79	56	40839	3.334	ng	Dil 98 9/10/09
13) Acetone	8.01	58	1015650	53.130	ng	# 36
14) Trichlorofluoromethane	8.29	101	26544	0.726	ng	97
15) 2-Propanol (Isopropanol)	8.51	45	1142753	21.828	ng	94
16) Acrylonitrile	8.74	53	13174	0.474	ng	# 19
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.49	59	23987	0.451	ng	# 75
19) Methylene Chloride	9.53	84	39596	1.660	ng	85
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	10.00	151	5004	0.306	ng	94
22) Carbon Disulfide	9.94	76	17764	0.211	ng	94
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.38	63	1122	N.D.		
25) Methyl tert-Butyl Ether	11.42	73	2031	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.89	72	261234	19.602	ng	# 81
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.92	87	12731	0.673	ng	# 1
30) Ethyl Acetate	12.91	61	99658	11.532	ng	97
31) n-Hexane	12.93	57	430955	10.230	ng	94 10

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
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 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

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 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	9317	0.264 ng	yes	91
34) Tetrahydrofuran (THF)	13.58	72	363842	26.260 ng	#	76
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.15	62	5579	0.207 ng	yes	90
38) 1,1,1-Trichloroethane	14.54	97	672	N.D.		
39) Isopropyl Acetate	15.09	61	1825	0.128 ng	#	1
40) 1-Butanol	15.09	56	149598	6.631 ng		96
41) Benzene	15.23	78	662694	7.078 ng		98
42) Carbon Tetrachloride	15.46	117	7498	0.287 ng	yes	95
43) Cyclohexane	15.66	84	41862	1.155 ng		88
44) tert-Amyl Methyl Ether	16.12	73	1303	N.D.		
45) 1,2-Dichloropropane	16.43	63	2548	0.111 ng		96
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	16.77	130	26995	1.136 ng		99
48) 1,4-Dioxane	16.75	88	524	N.D.		
49) 2,2,4-Trimethylpentane...	16.86	57	764673	7.097 ng		100
50) Methyl Methacrylate	0.00	100	0	N.D.	d	
51) n-Heptane	17.20	71	133668	5.363 ng		93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.00	58	13050	0.645 ng		83
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.78	97	1427	0.071 ng	#	56
58) Toluene	19.28	91	2444328	24.505 ng		100
59) 2-Hexanone	19.59	43	54451	1.050 ng	#	50
60) Dibromochloromethane	19.69	129	105	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	149007	2.634 ng		93
63) n-Octane	20.56	57	60399	2.717 ng		88
64) Tetrachloroethene	20.75	166	37264	1.505 ng		98
65) Chlorobenzene	21.65	112	5898	0.096 ng	#	42
66) Ethylbenzene	22.09	91	545802	5.068 ng		98
67) m- & p-Xylenes	22.30	91	1461315	17.116 ng		99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.77	104	39600	0.628 ng		99
70) o-Xylene	22.92	91	502281	5.848 ng		98
71) n-Nonane	23.17	43	91235	1.764 ng		89
72) 1,1,2,2-Tetrachloroethane	22.92	83	702	N.D.		
74) Cumene	23.65	105	28121	0.253 ng		97
75) alpha-Pinene	24.15	93	1705034	31.033 ng		100
76) n-Propylbenzene	24.28	91	165223	1.200 ng		94
77) 3-Ethyltoluene	24.40	105	487005	4.668 ng		98
78) 4-Ethyltoluene	24.46	105	233390	2.225 ng		100
79) 1,3,5-Trimethylbenzene	24.55	105	169897	1.959 ng		98

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 04 15:11:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

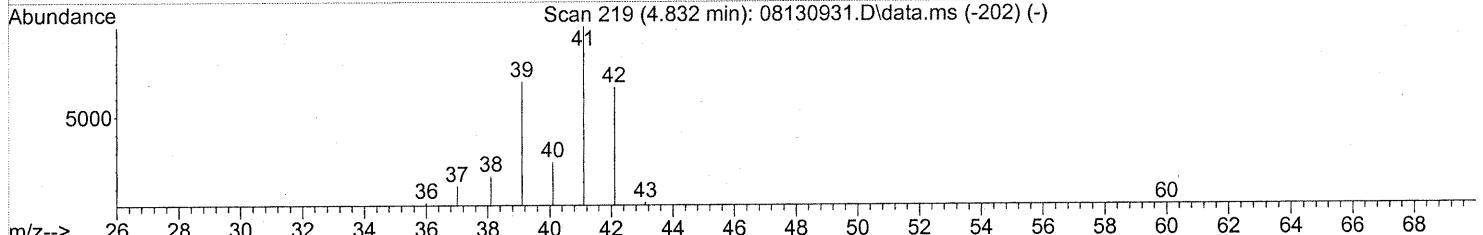
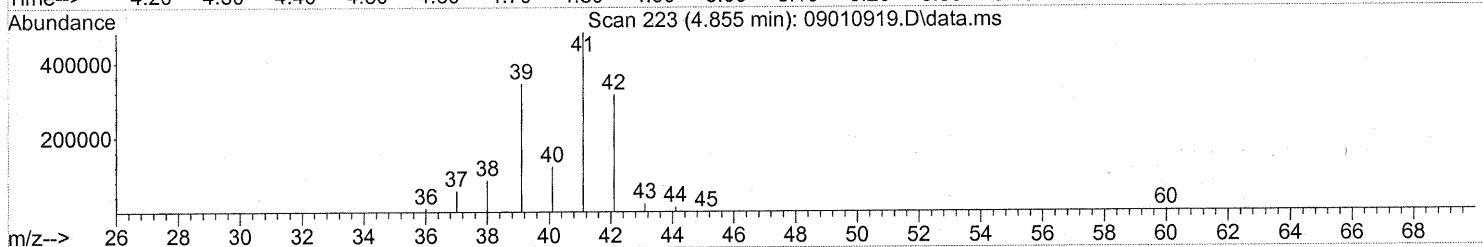
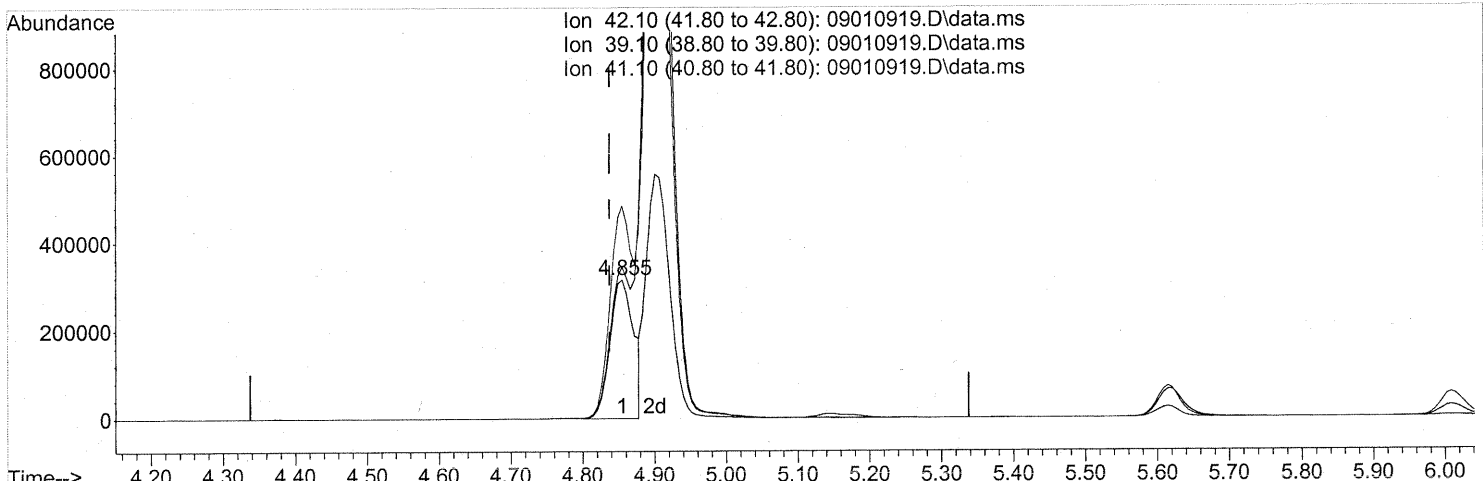
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	1795	N.D.		
81) 2-Ethyltoluene	24.79	105	161062	1.495 ng		99
82) 1,2,4-Trimethylbenzene	25.05	105	657462	7.140 ng		89
83) n-Decane	25.15	57	110821	2.068 ng		95
84) Benzyl Chloride	25.23	91	1118	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	1633	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	1633	N.D.		
87) sec-Butylbenzene	25.38	105	14073	0.116 ng		87
88) 4-Isopropyltoluene (p-...	25.56	119	131108	1.128 ng		94
89) 1,2,3-Trimethylbenzene	25.57	105	156305	1.679 ng		95
90) 1,2-Dichlorobenzene	25.33	146	1633	N.D.		
91) d-Limonene	25.74	68	350090	9.293 ng		96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	49722	0.898 ng	#	47
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	206135	1.668 ng		96
96) n-Dodecane	27.89	57	67491	1.089 ng		96
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	36226	1.153 ng	#	83
99) tert-Butylbenzene	25.49	119	22228	0.243 ng		100
100) n-Butylbenzene	26.06	91	63671	0.659 ng	#	43

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(2) Propene (T)

4.855min (+0.017) 23.95ng

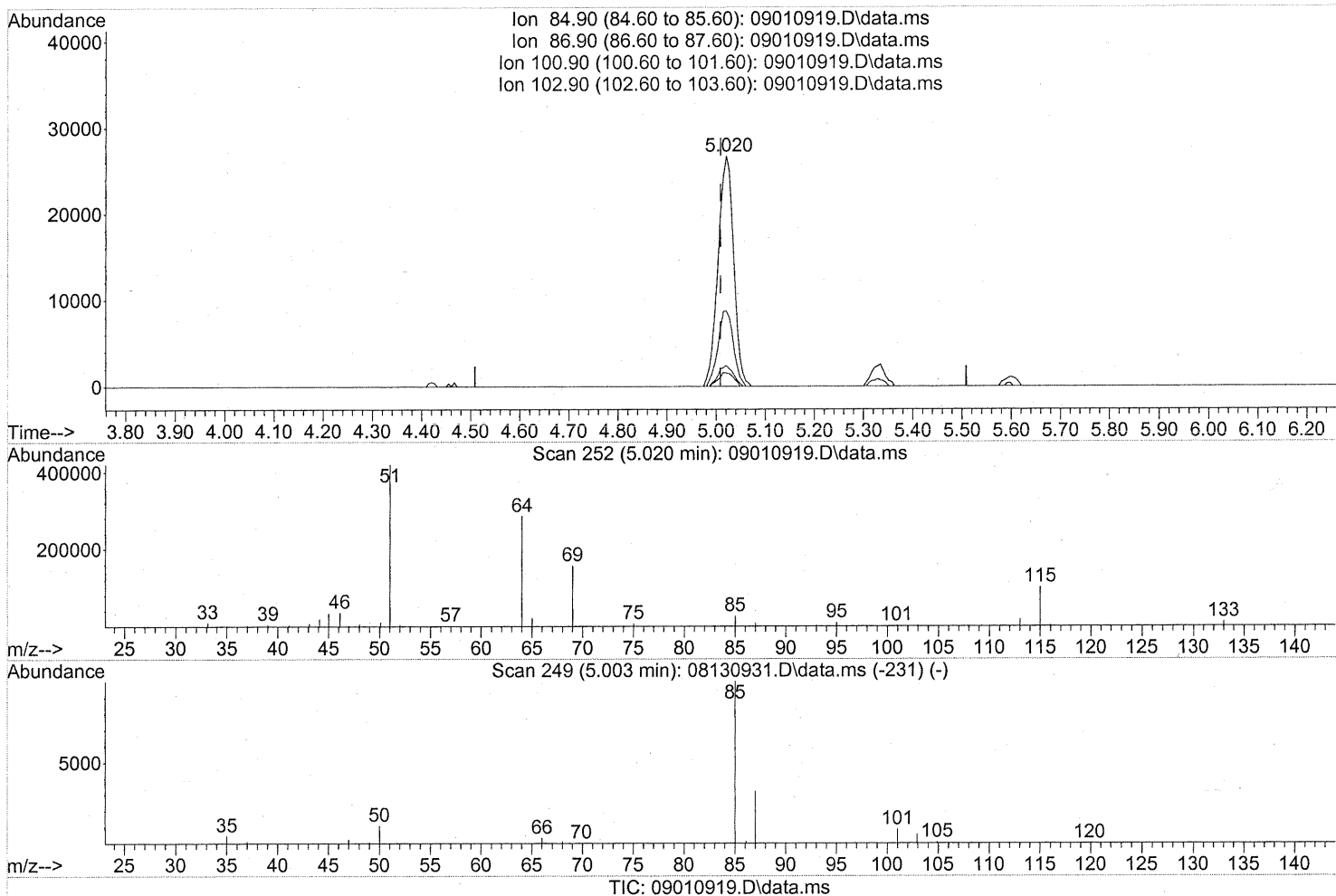
response 717341

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	91.95#
41.10	152.70	143.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

5.020min (+0.011) 1.37ng

response 58654

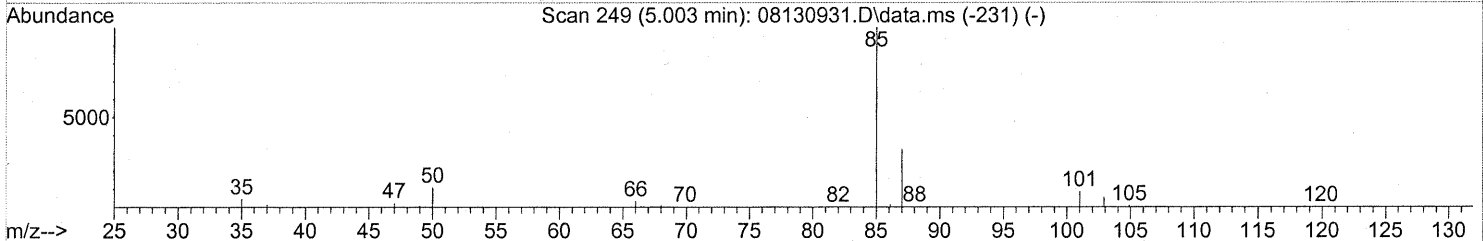
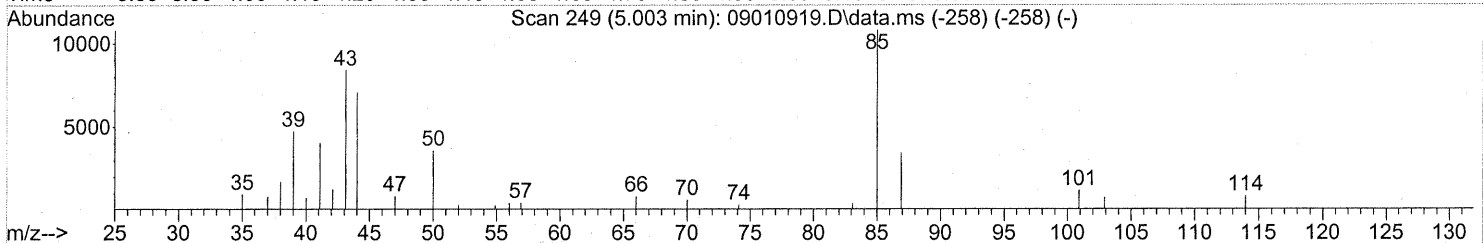
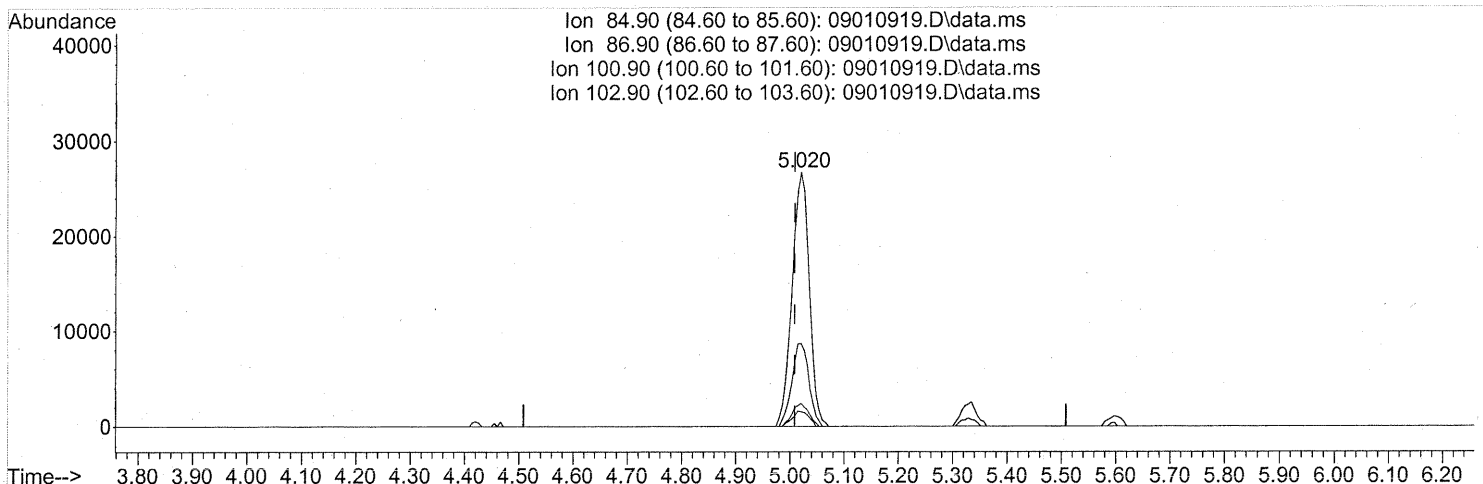
Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.28
100.90	9.10	8.49
102.90	5.50	5.57

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.020min (+0.011) 1.37ng

response 58654

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.28
100.90	9.10	8.49
102.90	5.50	5.57

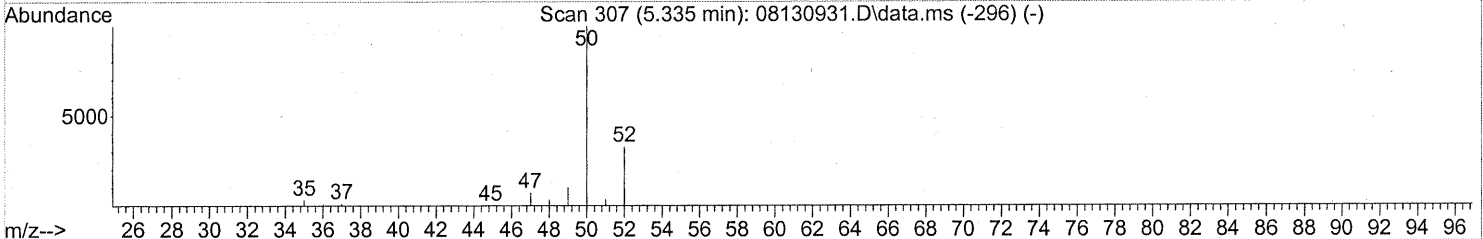
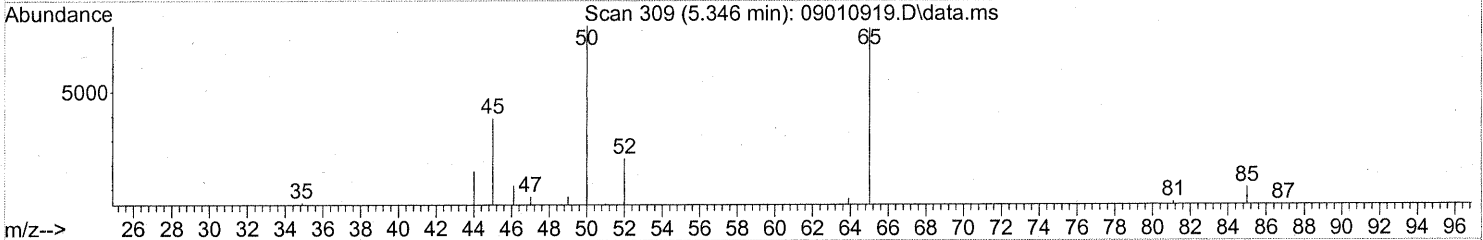
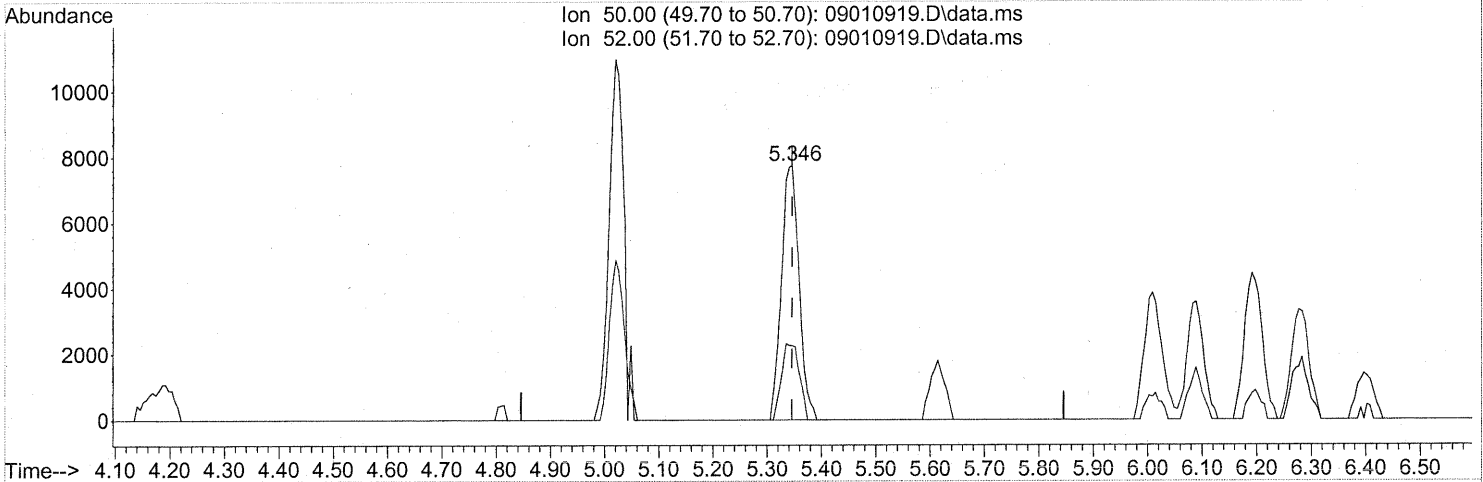
After subtraction

em 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(4) Chloromethane (T)
 5.346min (-0.000) 0.44ng
 response 17448

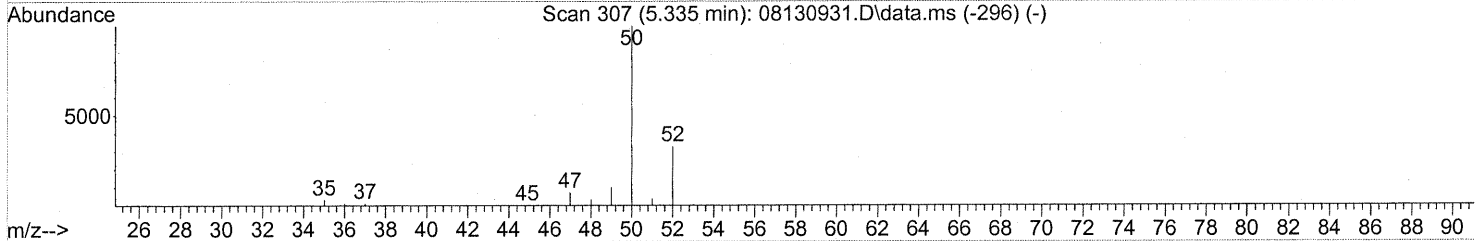
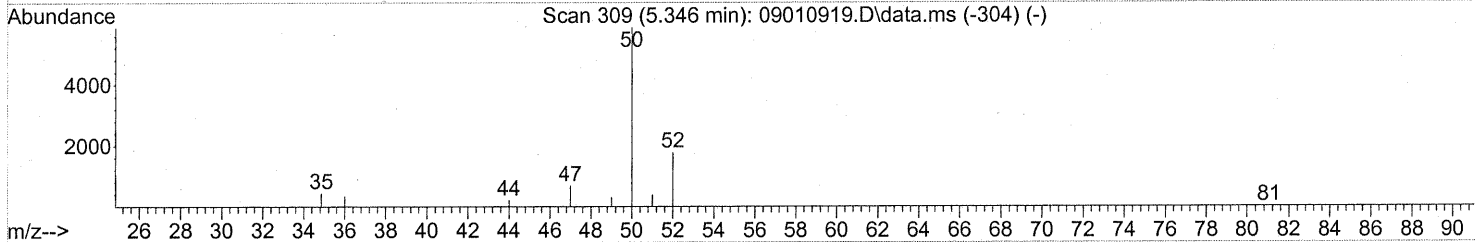
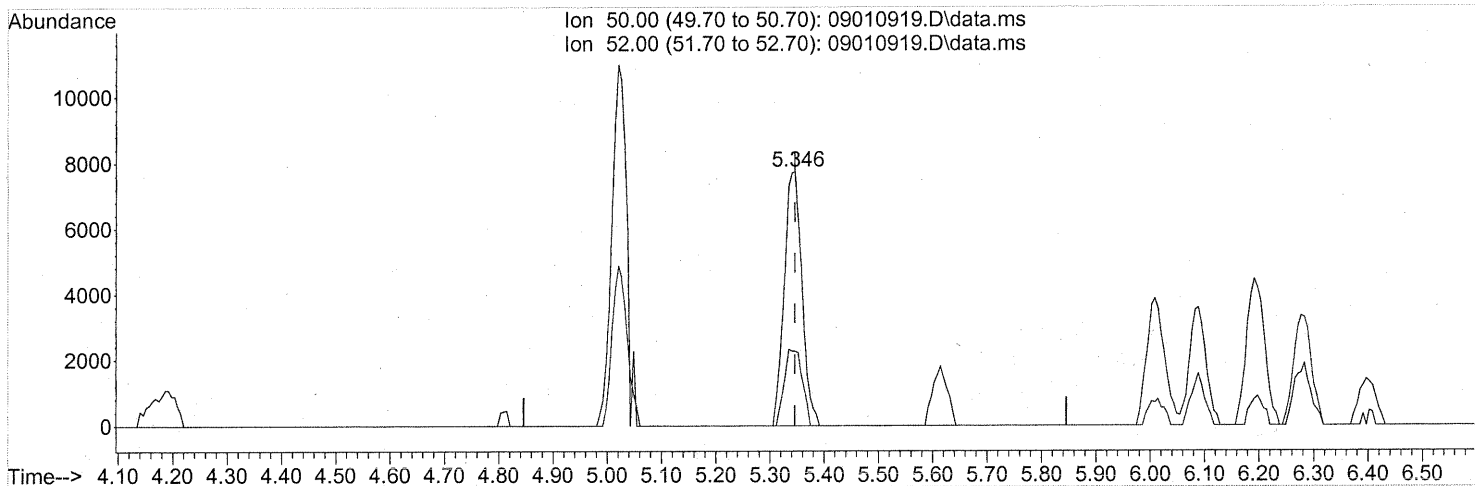
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.23
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(4) Chloromethane (T)
 5.346min (-0.000) 0.44ng
 response 17448

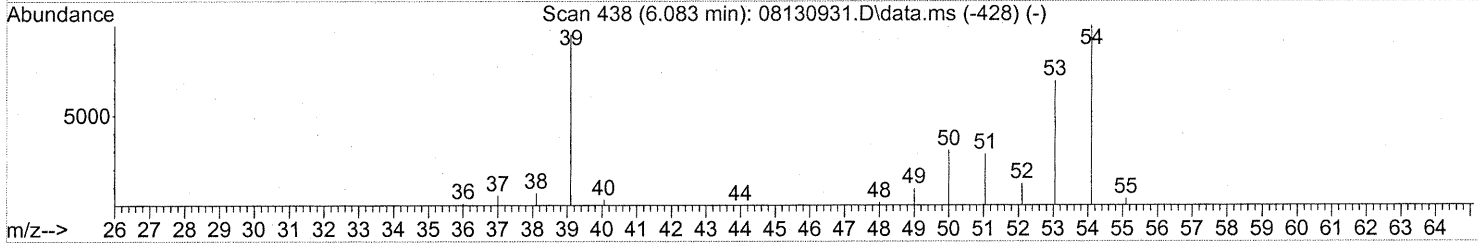
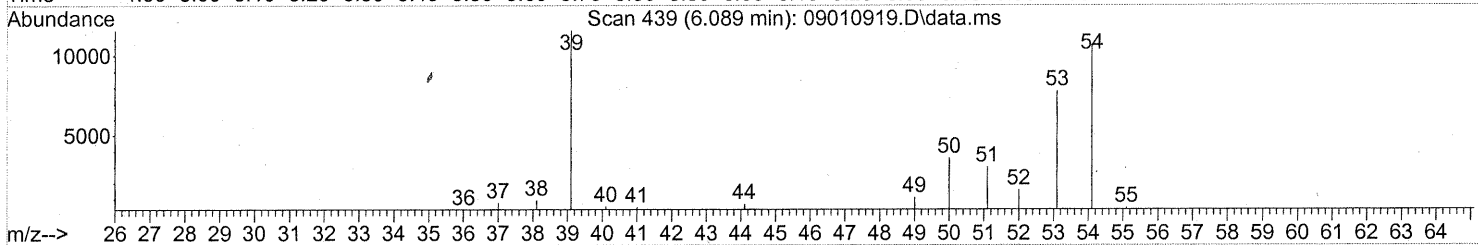
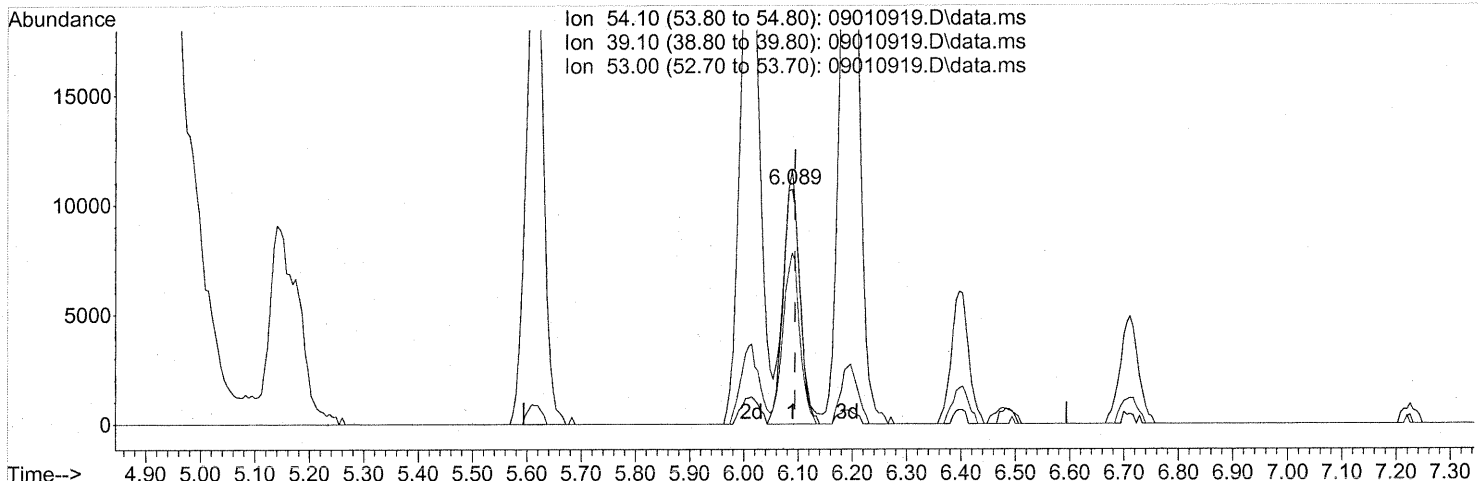
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.23
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
Em 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(7) 1,3-Butadiene (T)

6.089min (-0.006) 0.84ng

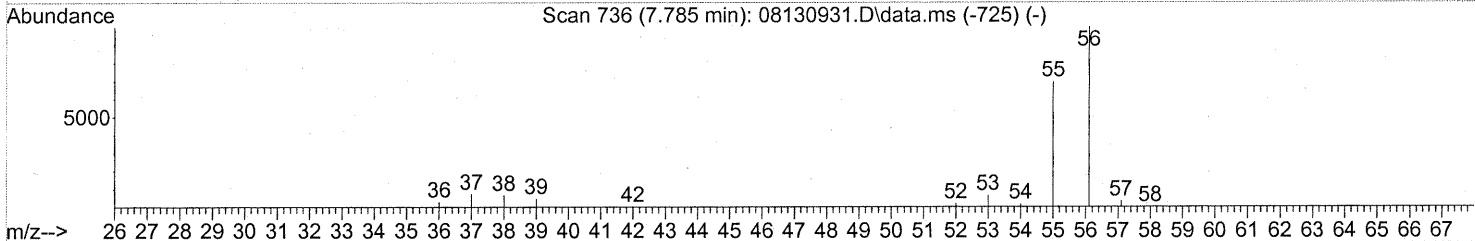
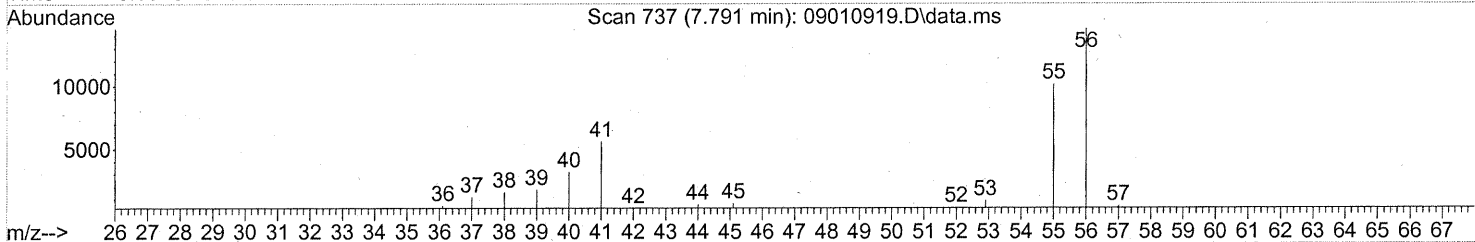
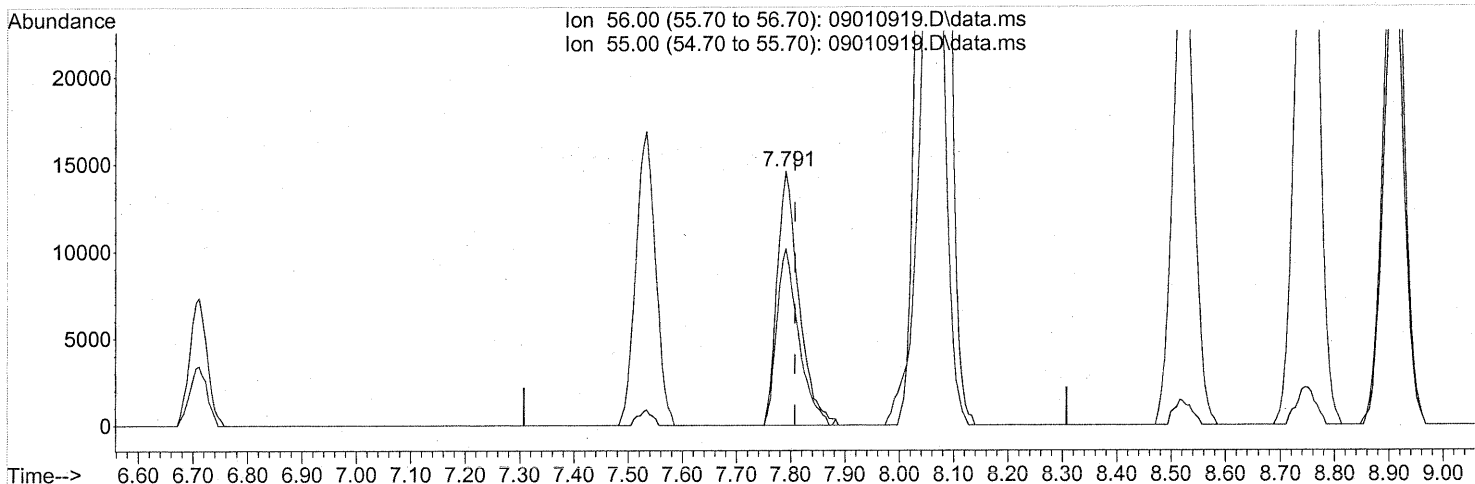
response 23513

Ion	Exp%	Act%
54.10	100	100
39.10	96.60	106.16
53.00	69.80	71.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

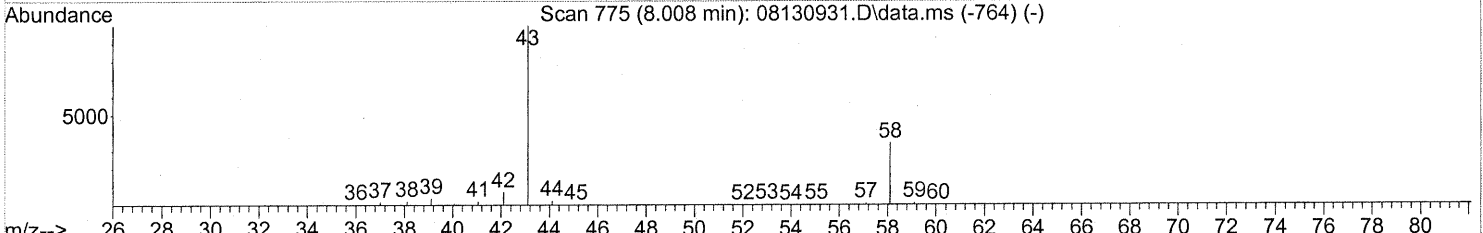
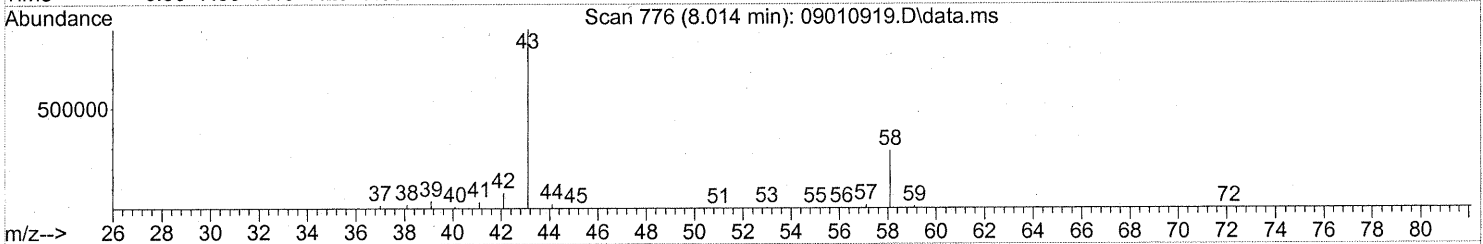
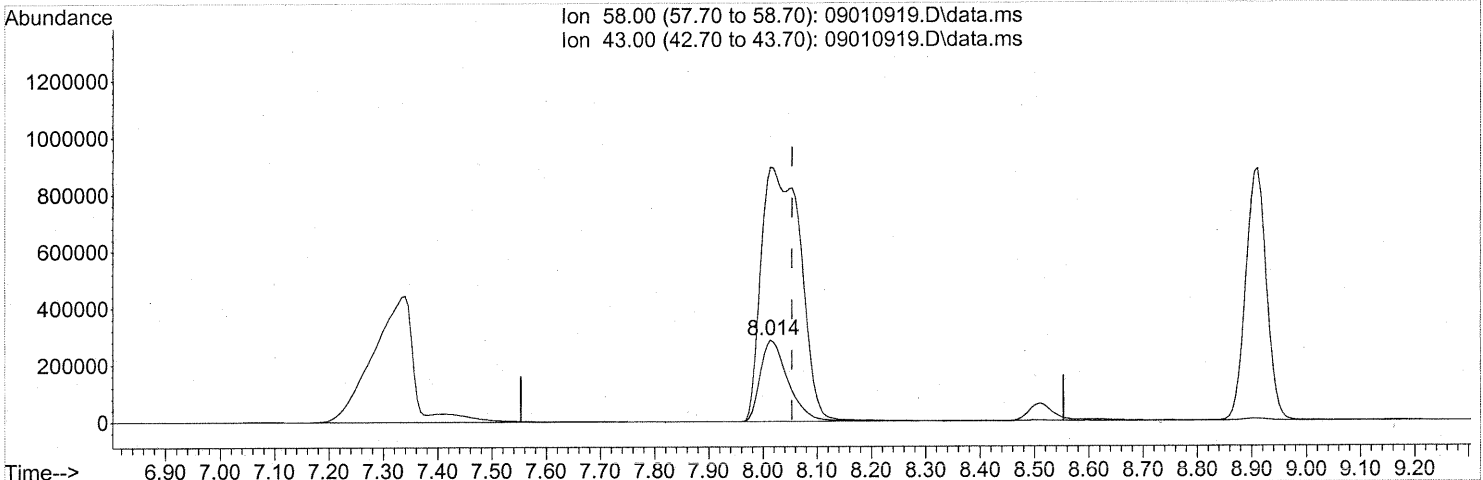
(12) Acrolein (T)
 7.791min (-0.017) 3.33ng
 response 40839

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_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(13) Acetone (T)

8.014min (-0.040) 53.13ng

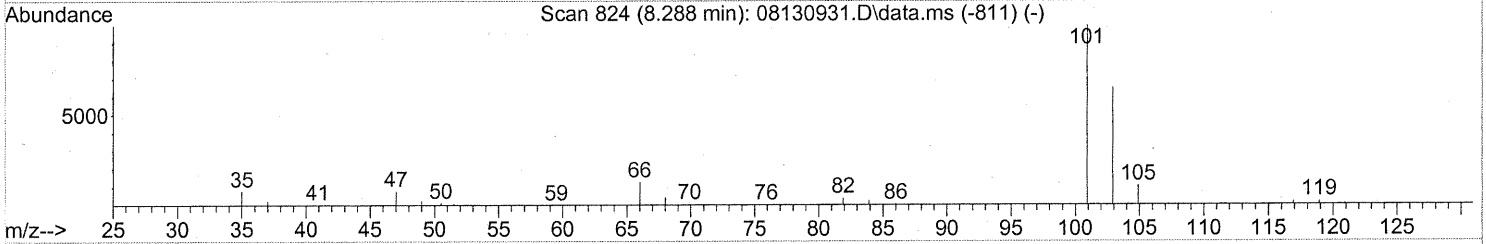
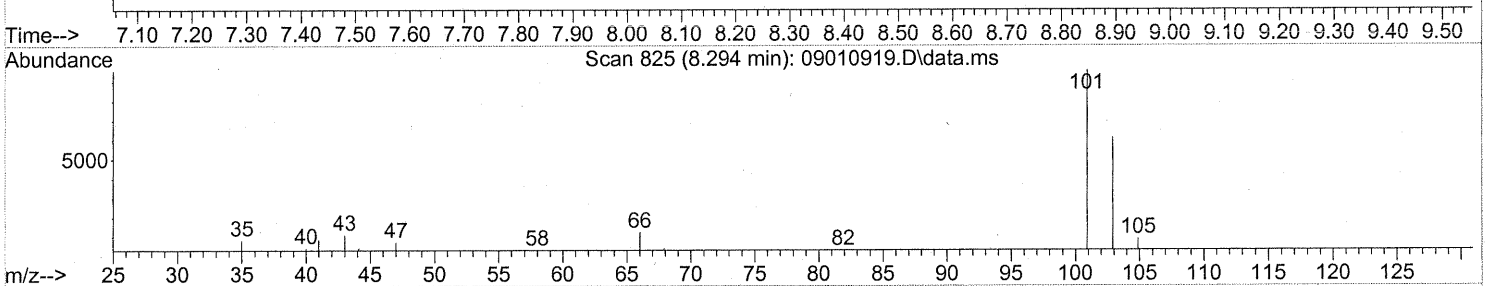
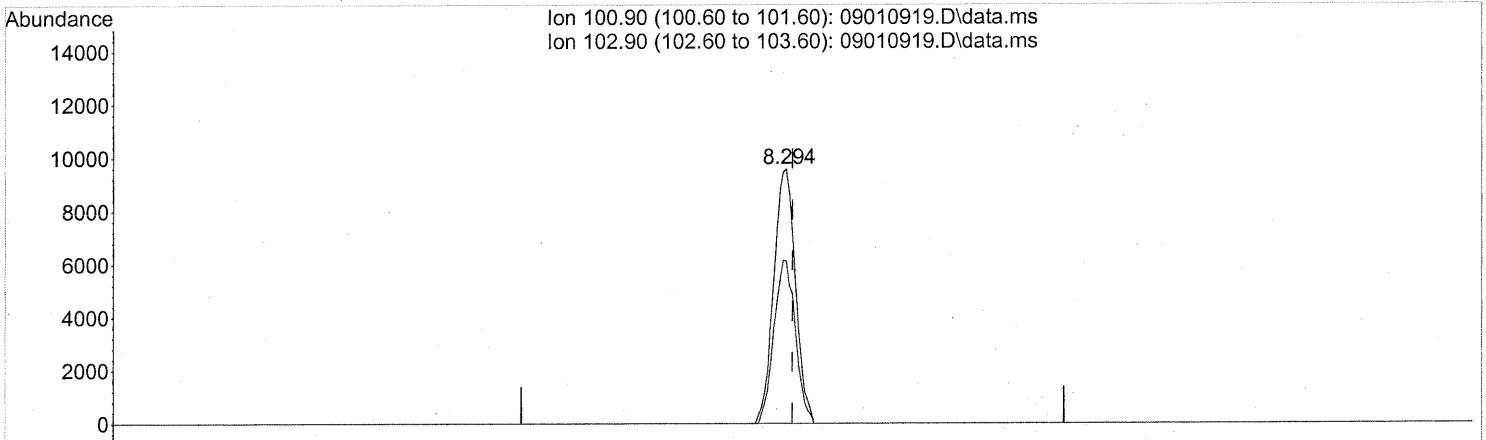
response 1015650

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	447.35#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.294min (-0.011) 0.73ng

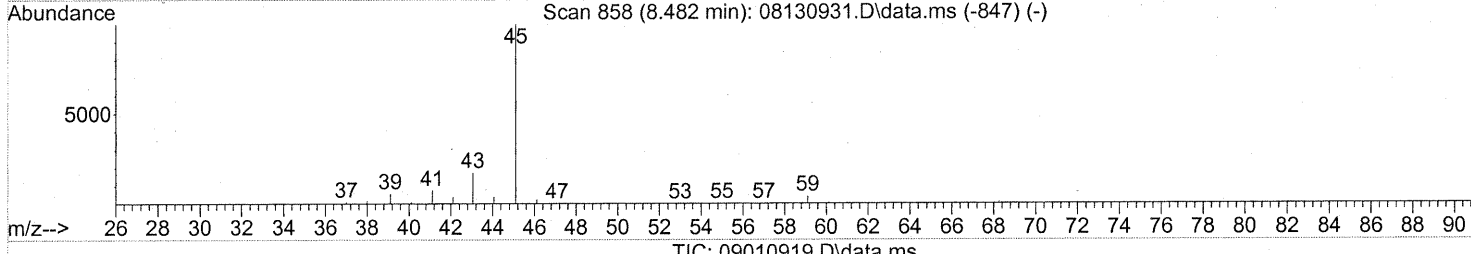
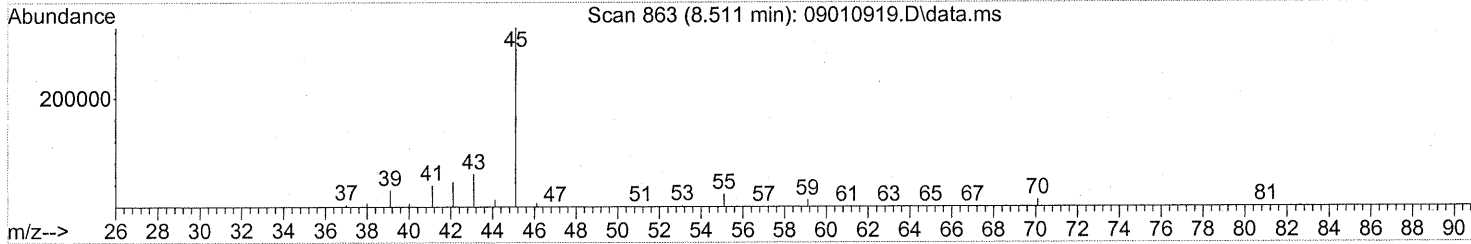
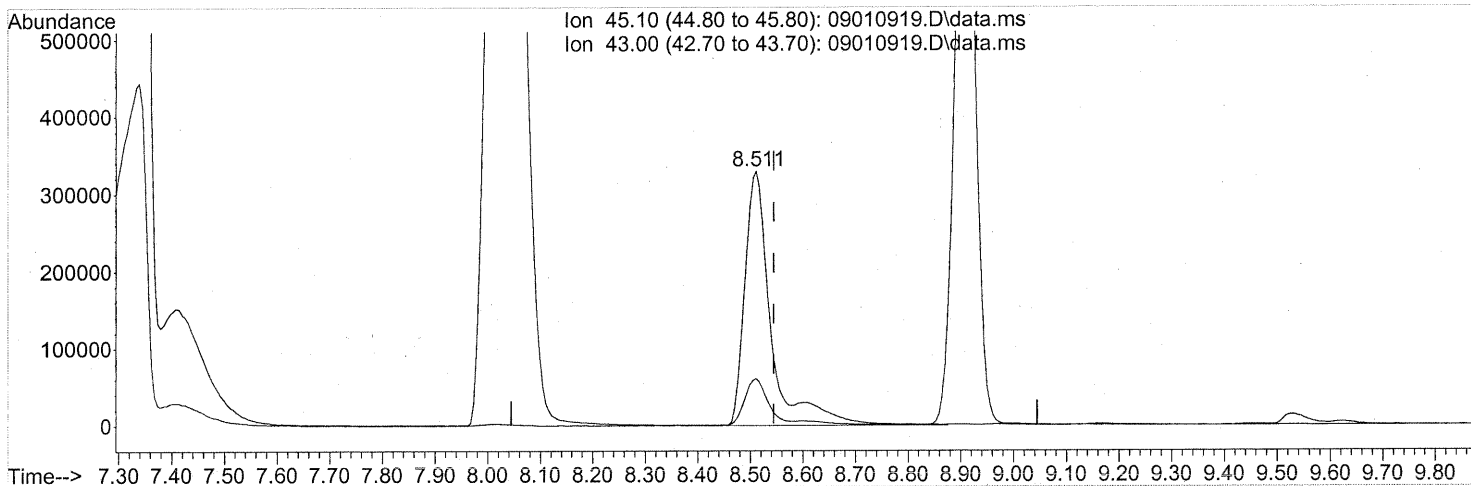
response 26544

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	63.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.511min (-0.034) 21.83ng

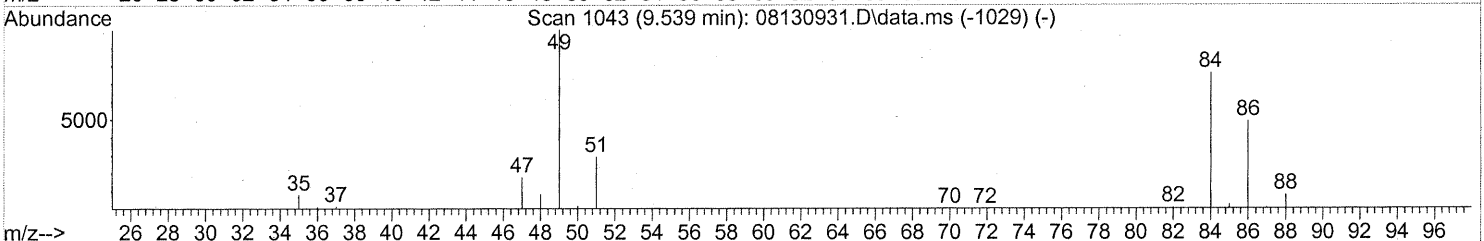
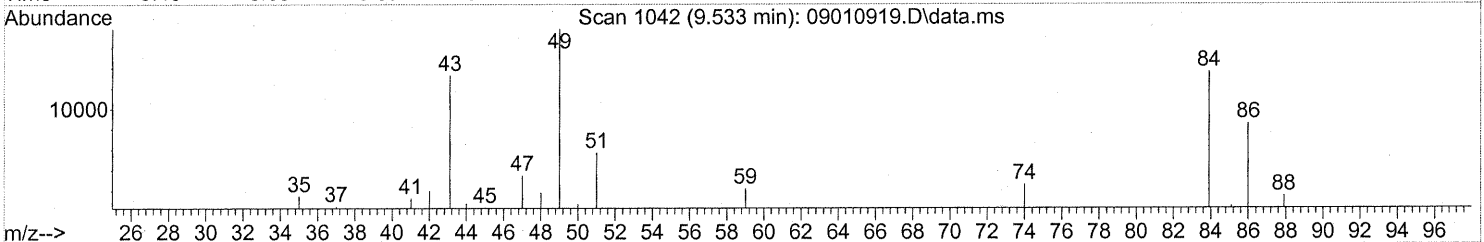
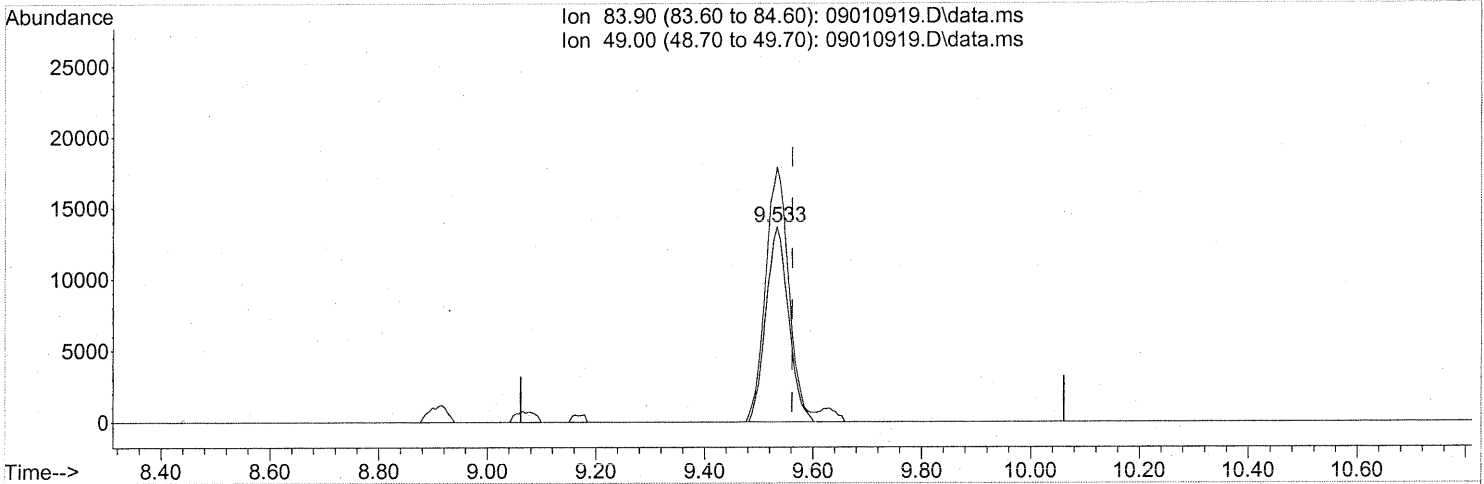
response 1142753

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(19) Methylene Chloride (T)

9.533min (-0.029) 1.66ng

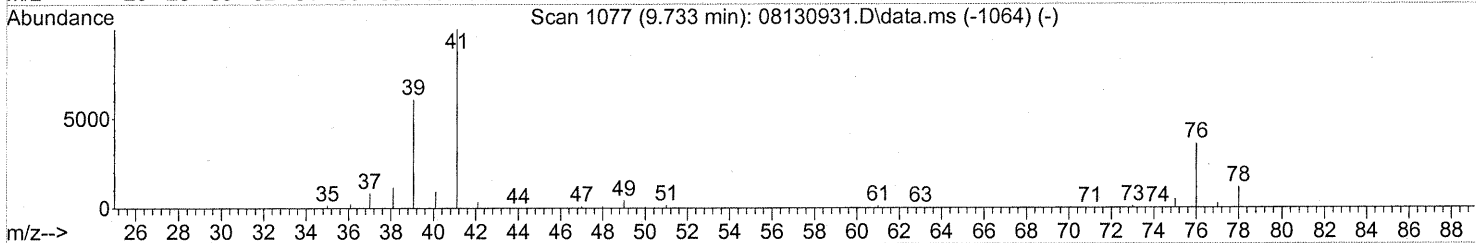
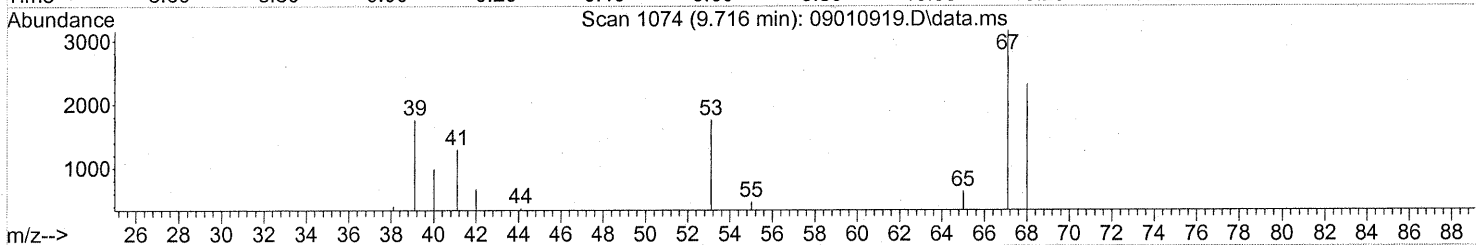
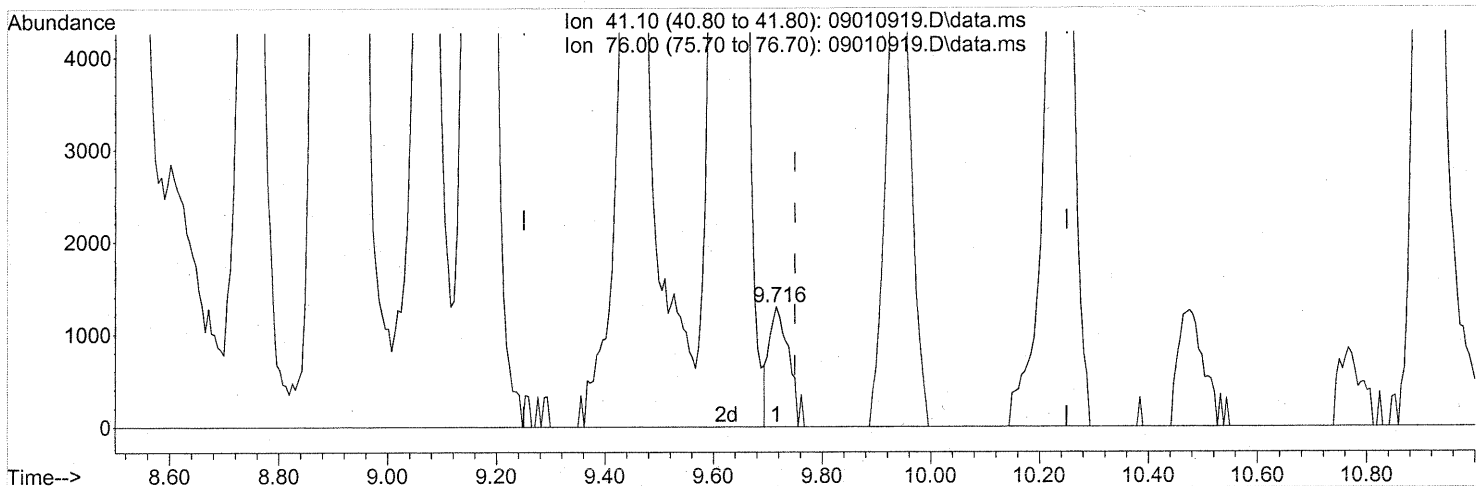
response 39596

Ion	Exp%	Act%
83.90	100	100
49.00	118.80	135.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

9.716min (-0.034) 0.10ng

response 3286

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

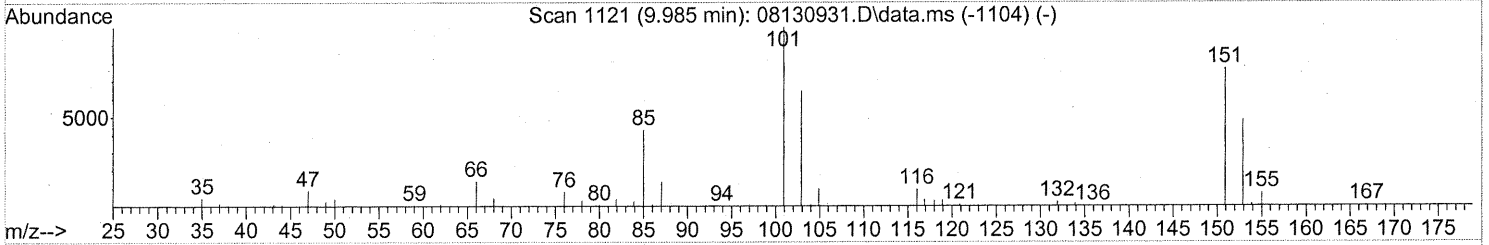
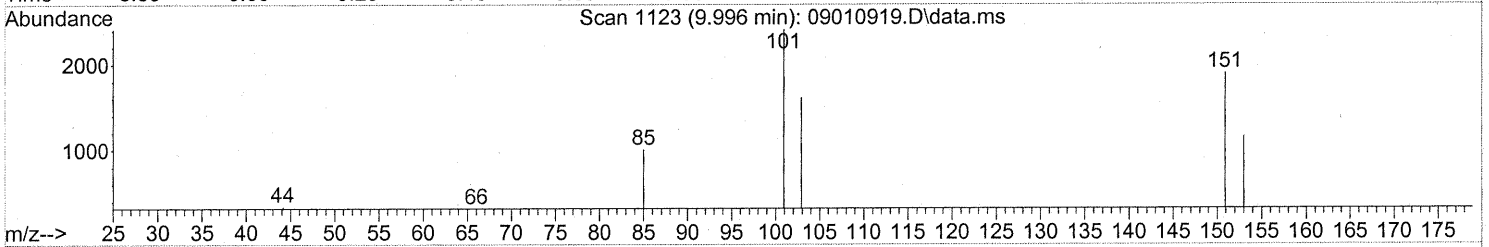
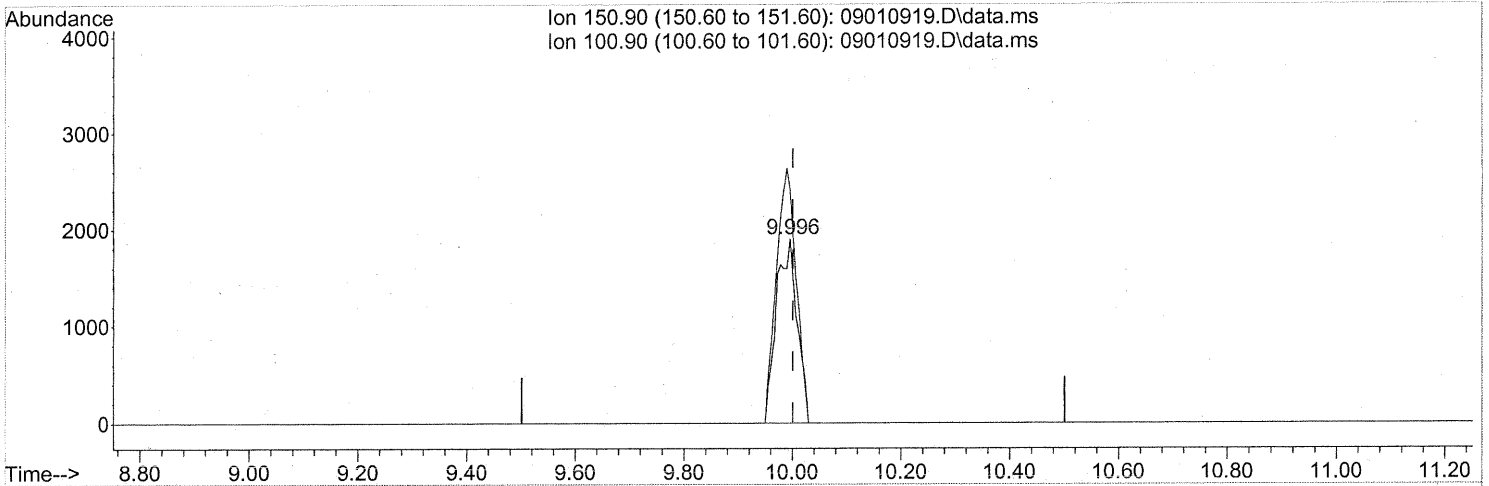
FP em 9/8/09

429/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.996min (-0.006) 0.31ng

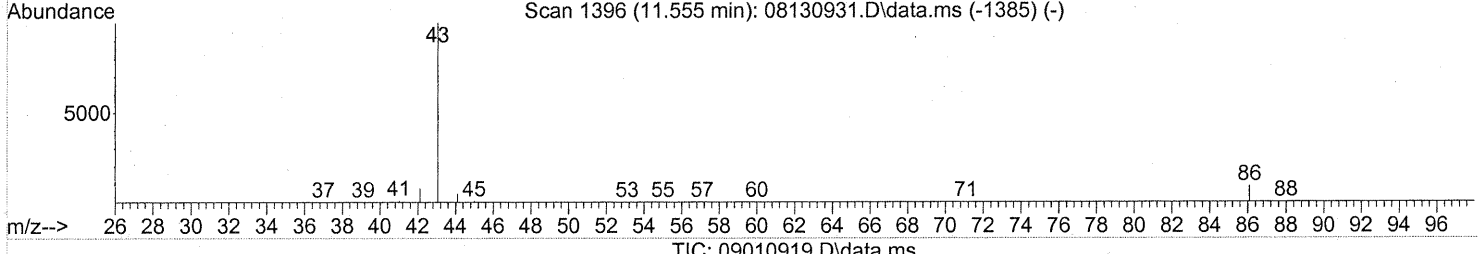
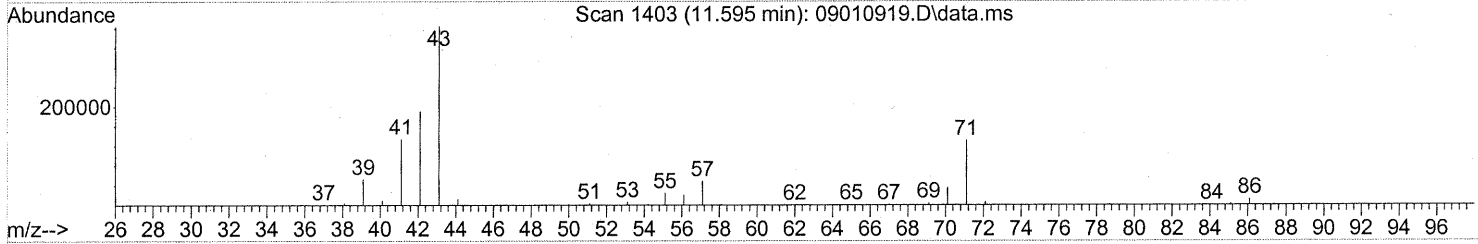
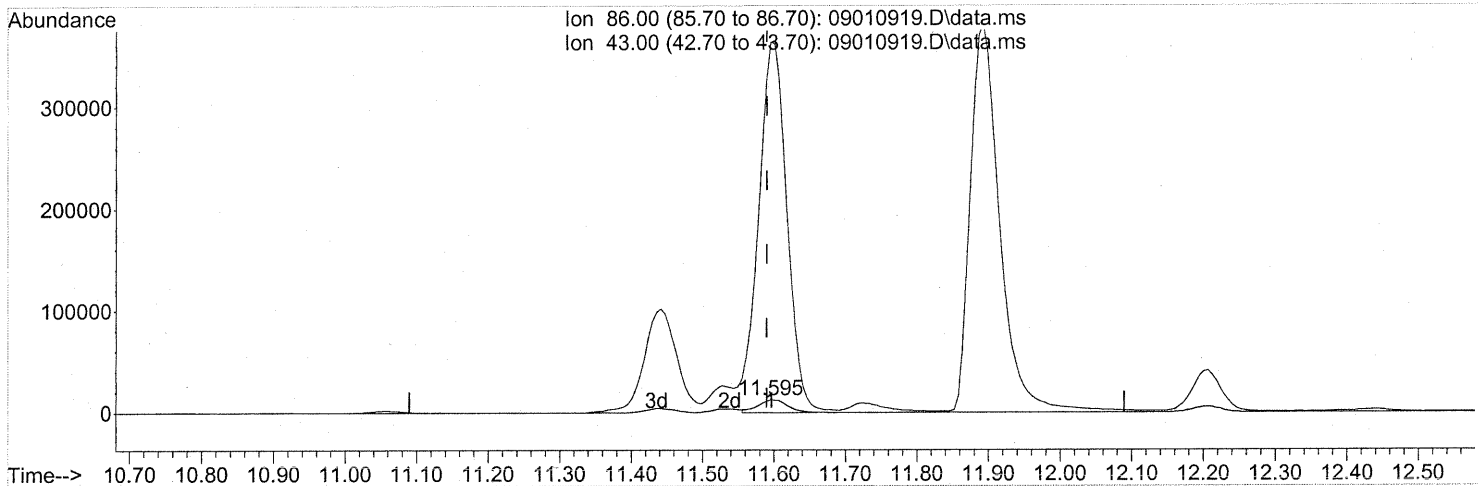
response 5004

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	133.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.595min (+0.005) 8.51ng
 response 35247

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	2857.93#
0.00	0.00	0.00
0.00	0.00	0.00

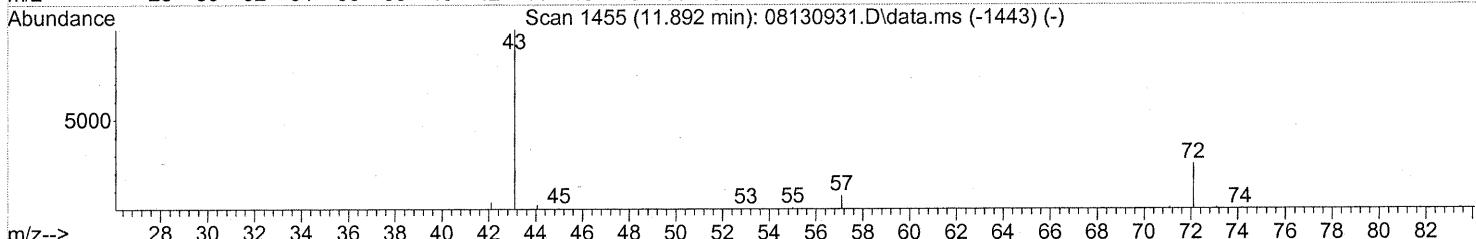
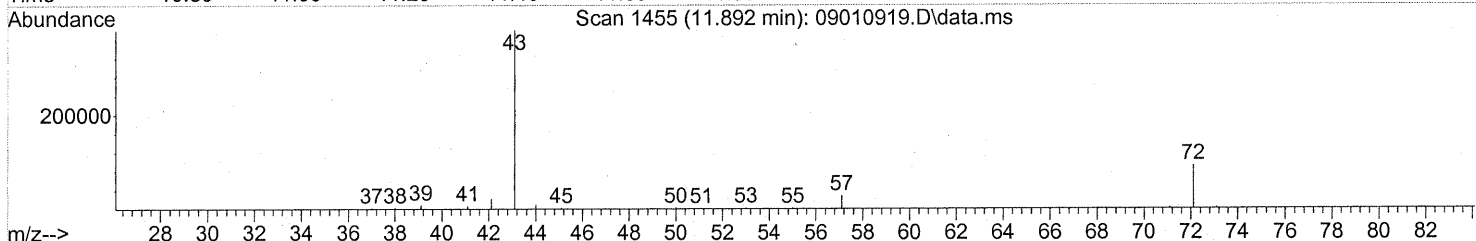
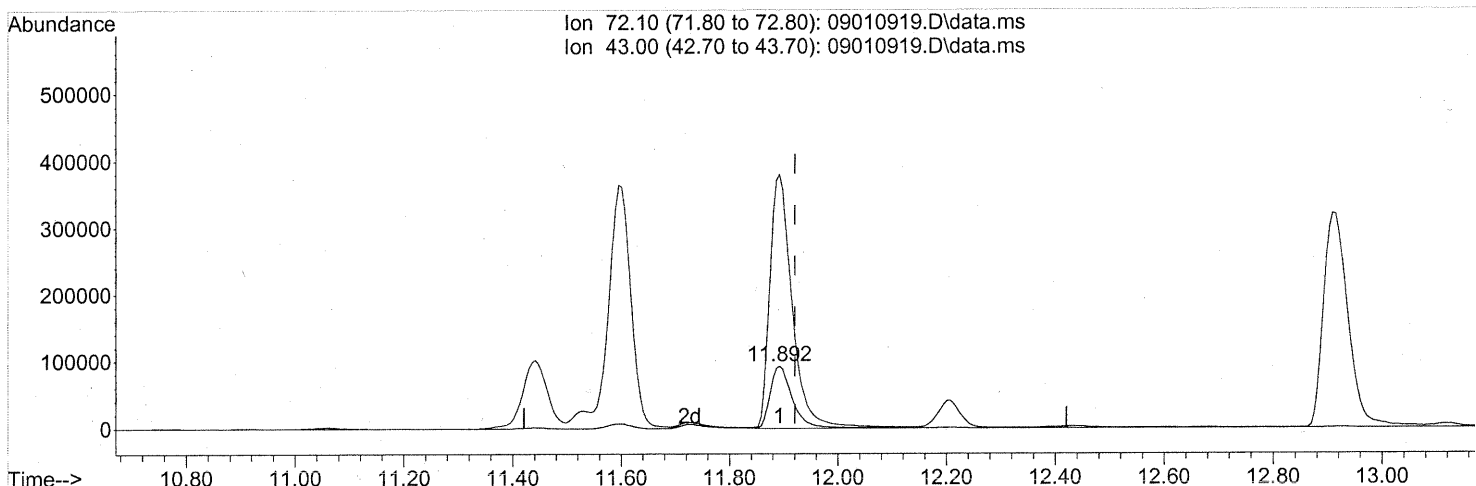
PP em 9/9/09

12/9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

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

11.892min (-0.029) 19.60ng

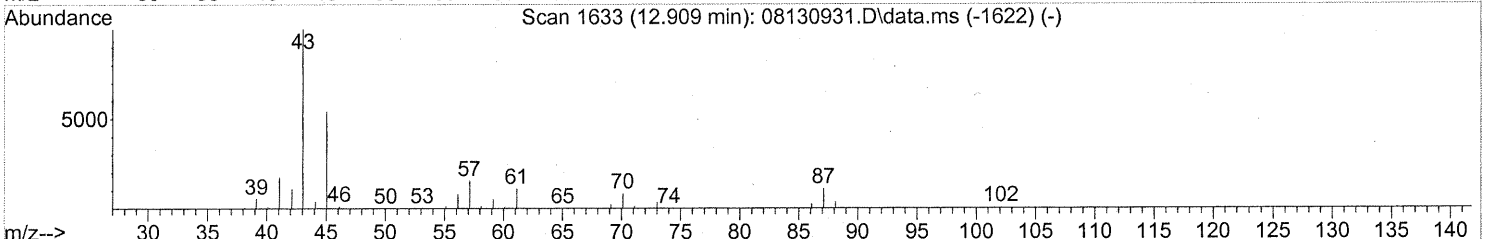
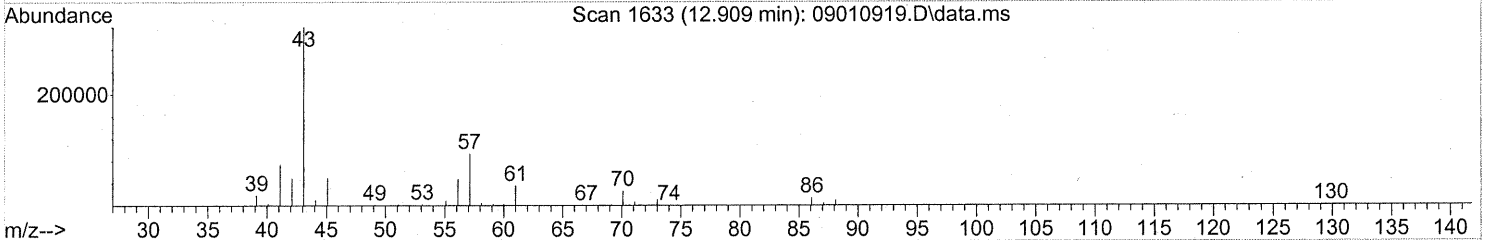
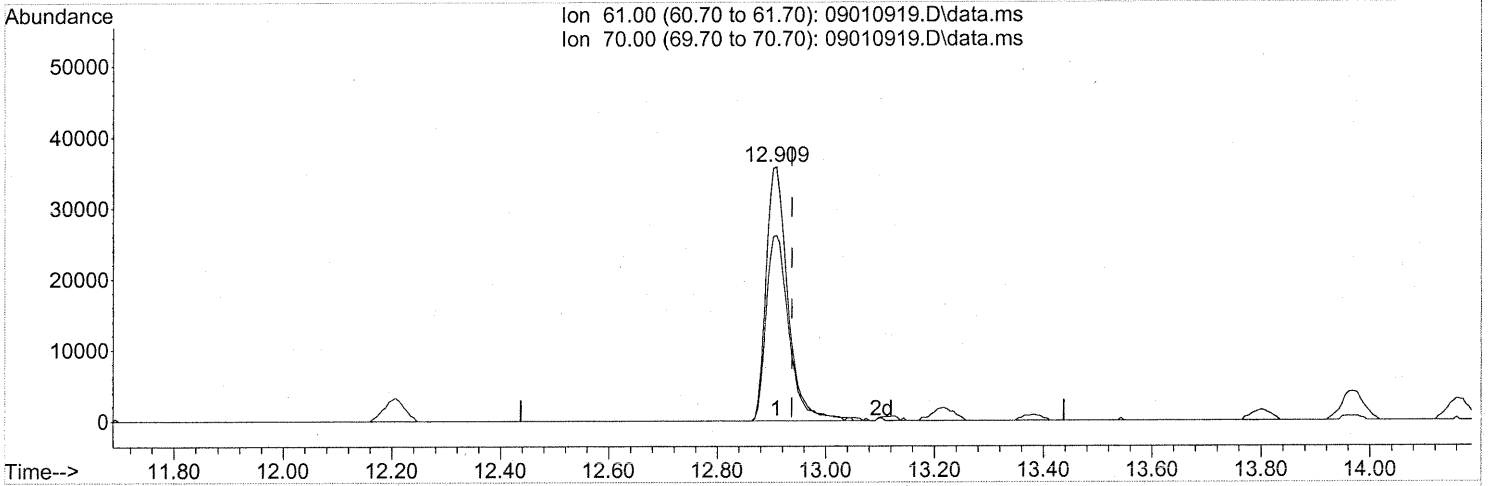
response 261234

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	409.72#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



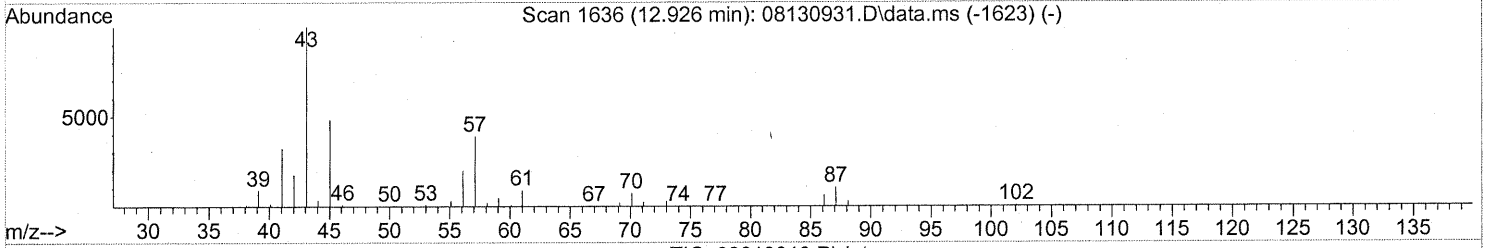
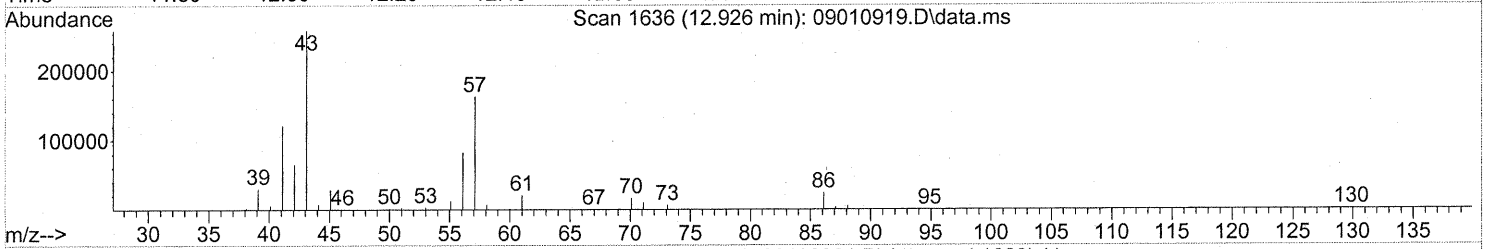
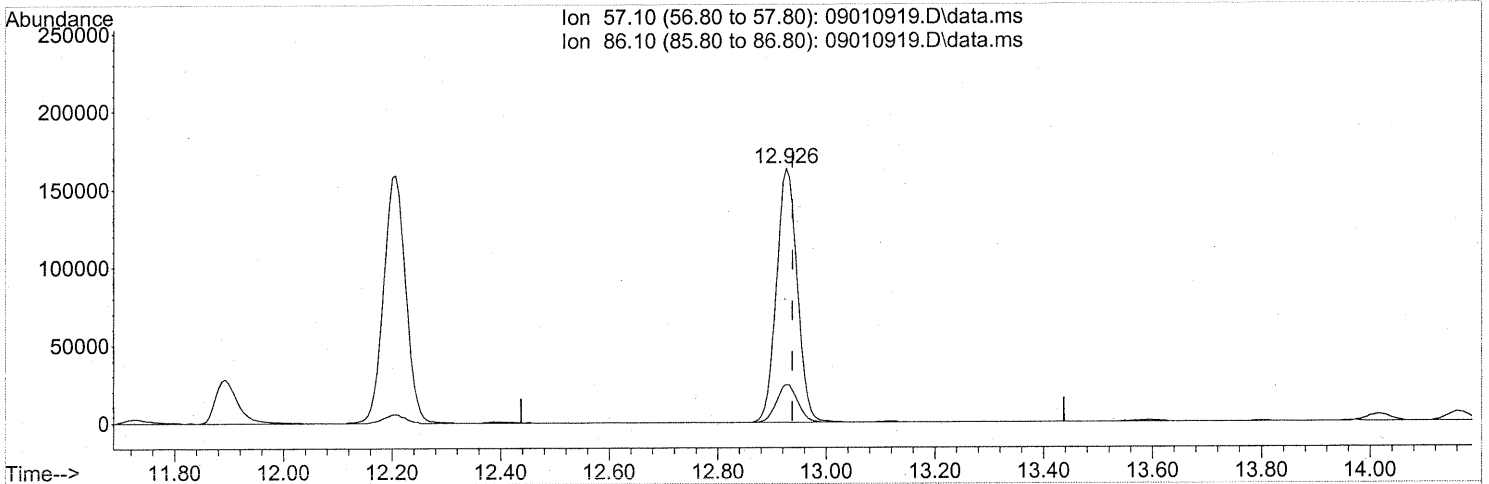
(30) Ethyl Acetate (T)
 12.909min (-0.029) 11.53ng
 response 99658

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	76.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



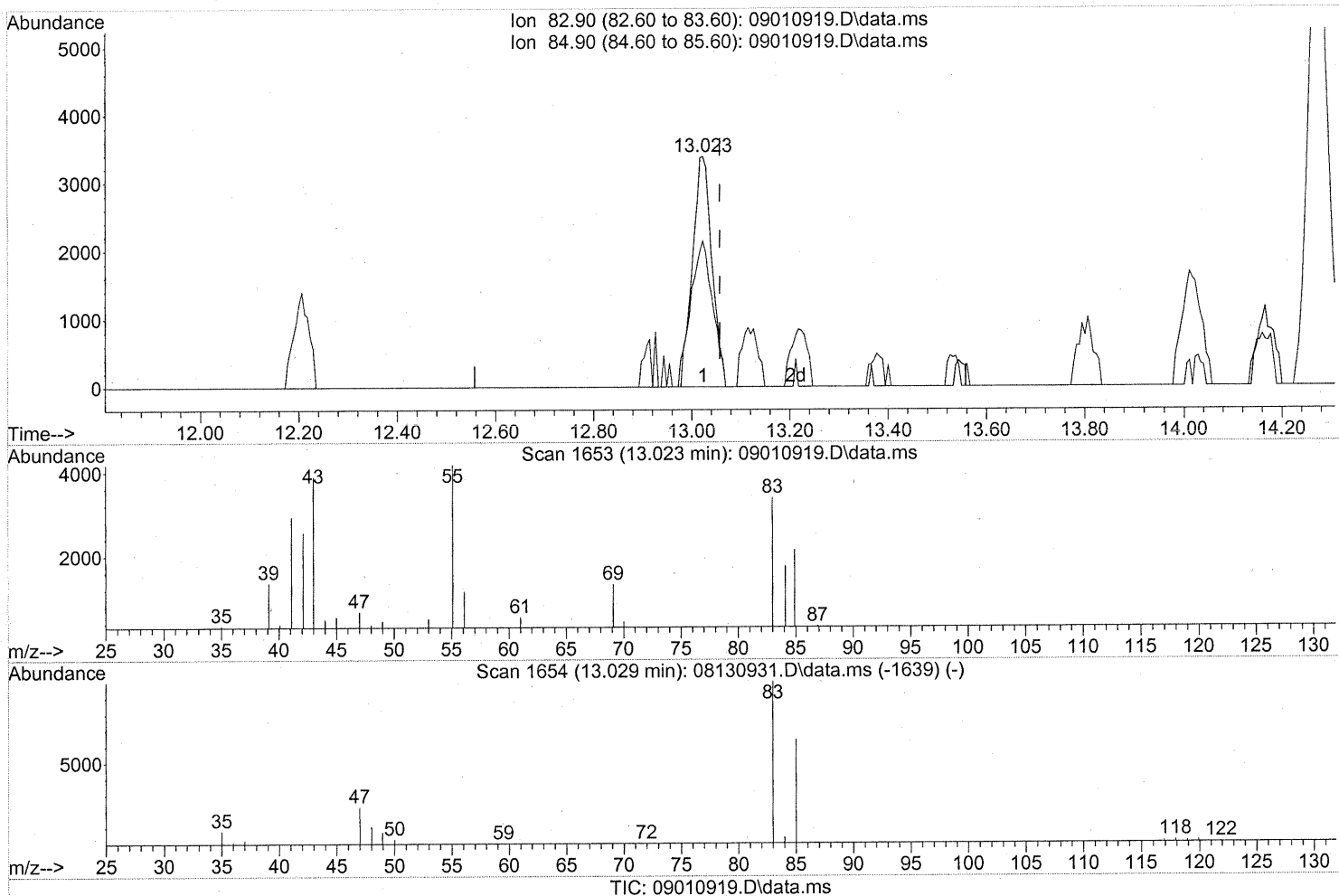
(31) n-Hexane (T)
 12.926min (-0.011) 10.23ng
 response 430955

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	14.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(32) Chloroform (T)

13.023min (-0.034) 0.26ng

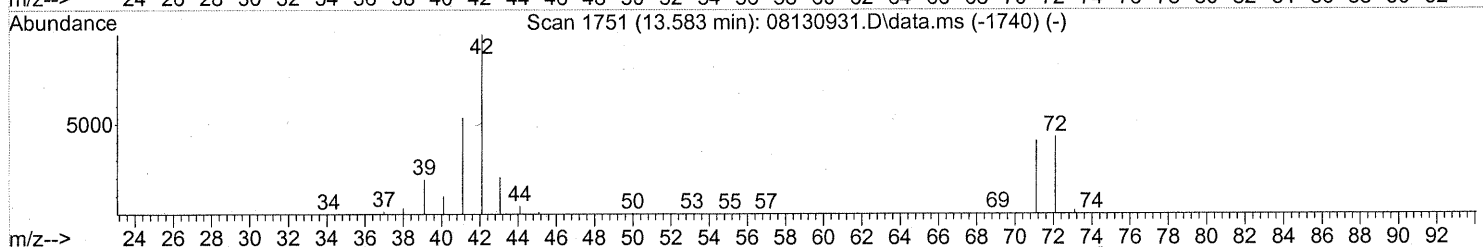
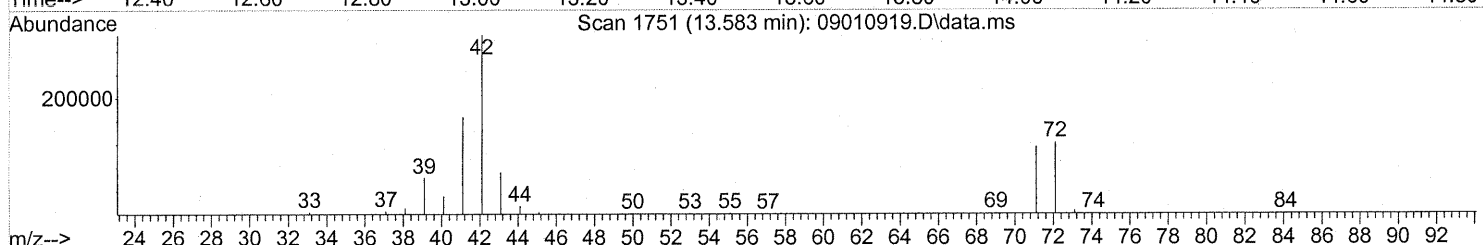
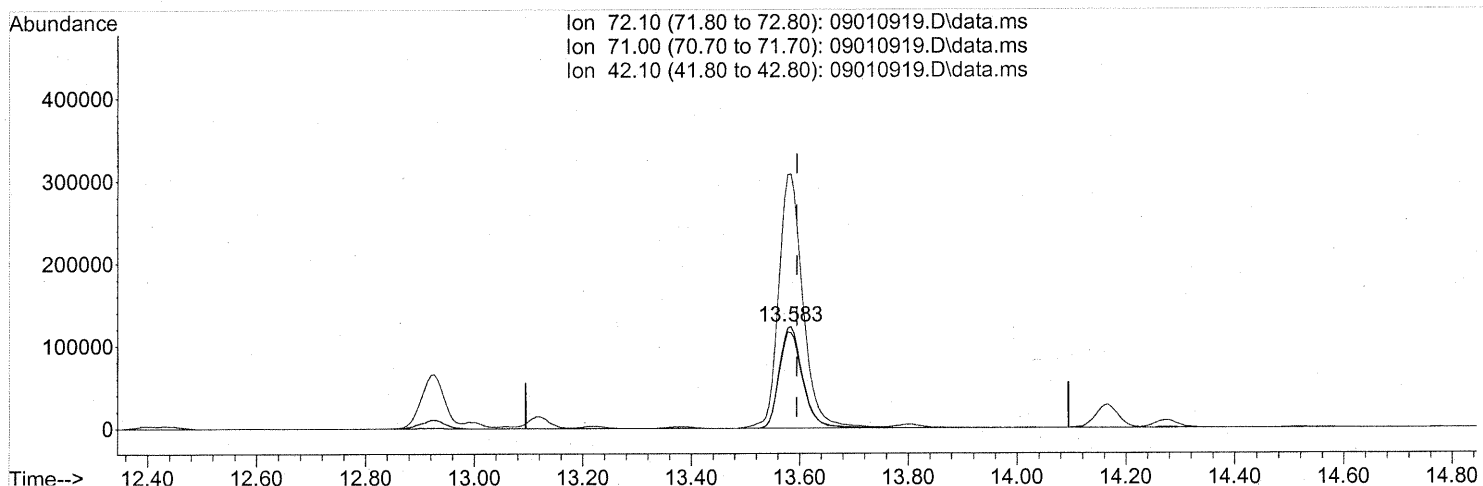
response 9317

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	71.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.583min (-0.011) 26.26ng

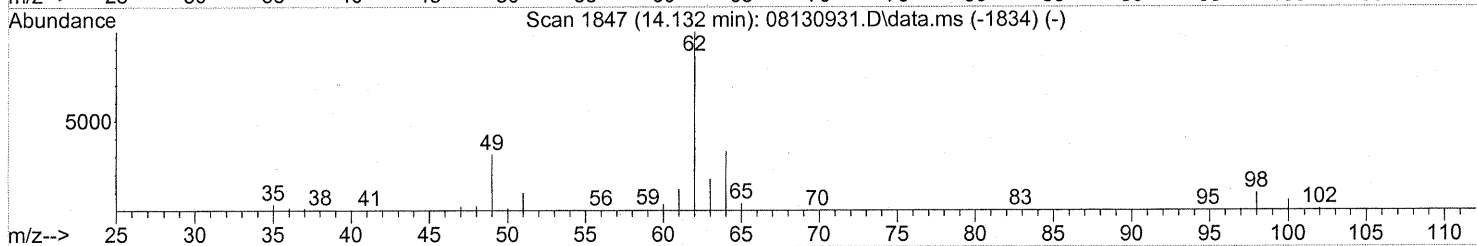
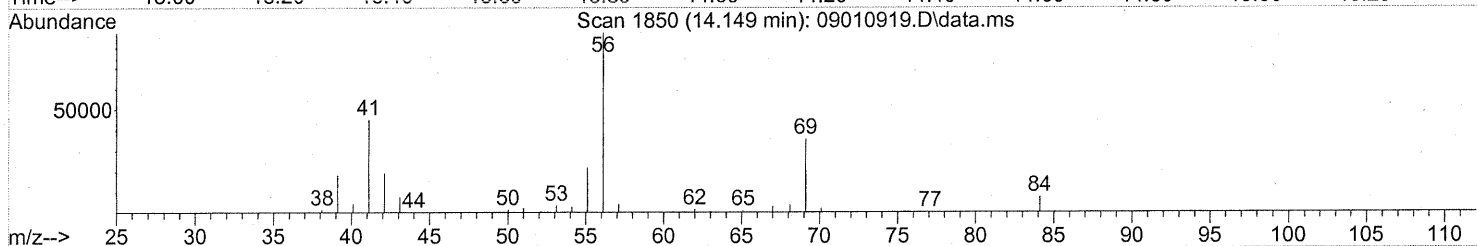
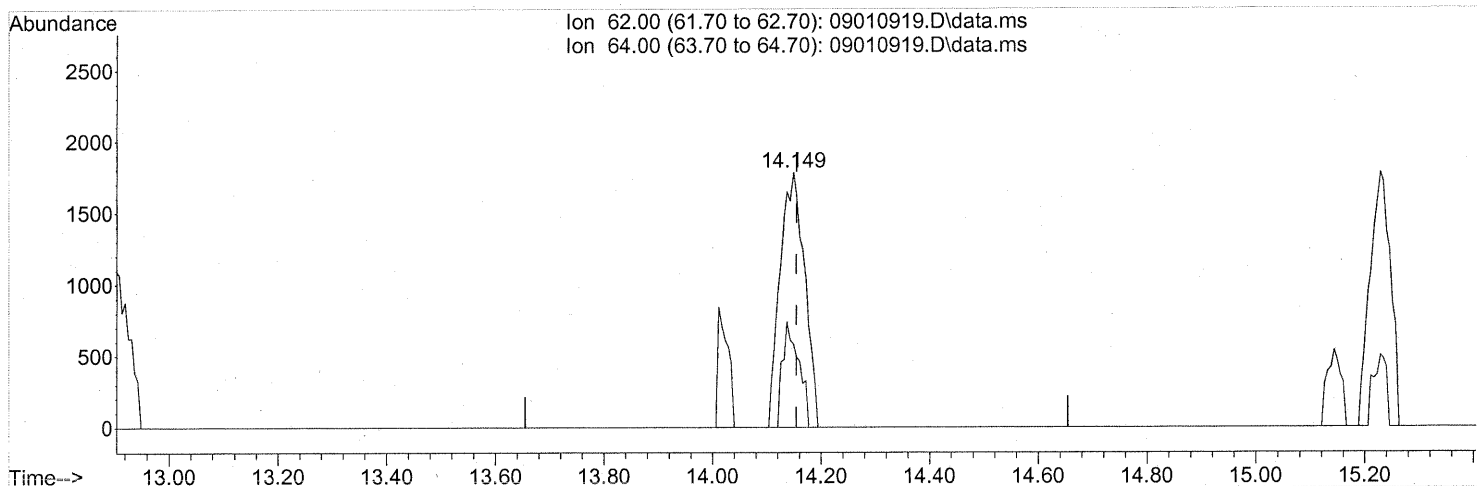
response 363842

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	95.17
42.10	206.50	261.08#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(36) 1,2-Dichloroethane (T)

14.149min (-0.006) 0.21ng

response 5579

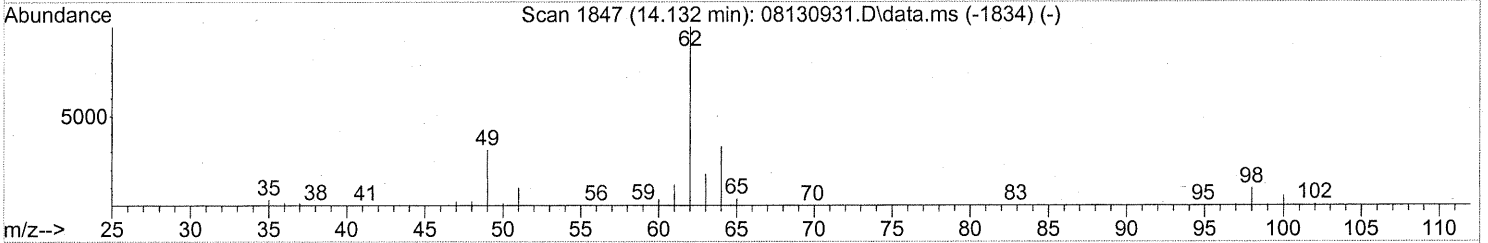
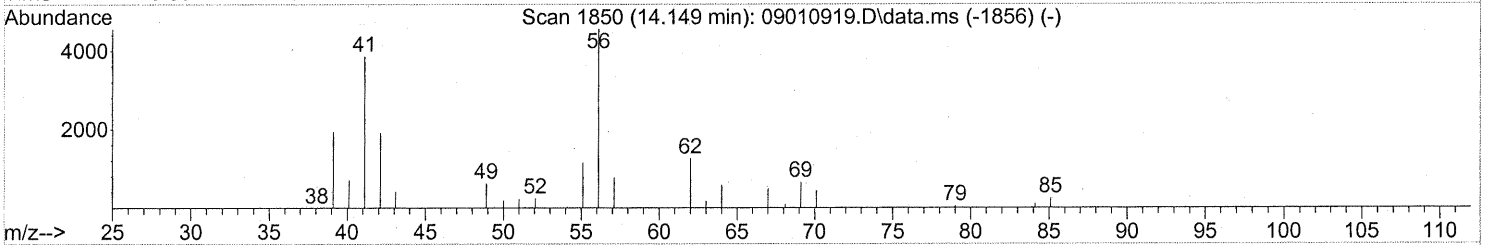
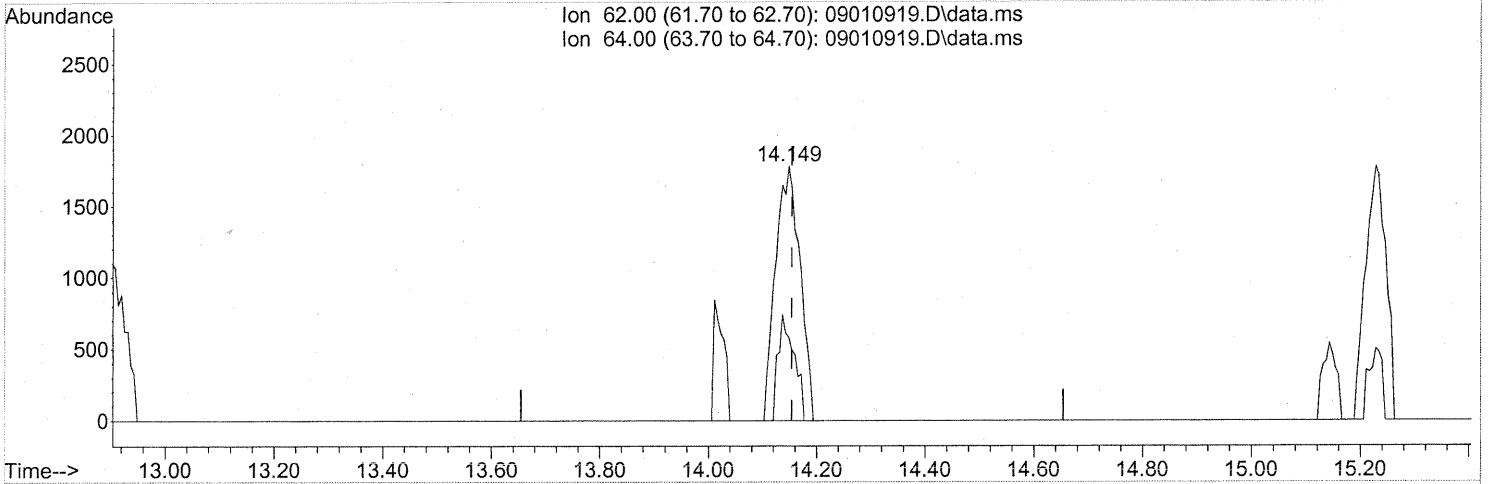
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	27.25
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(36) 1,2-Dichloroethane (T)

14.149min (-0.006) 0.21ng

response 5579

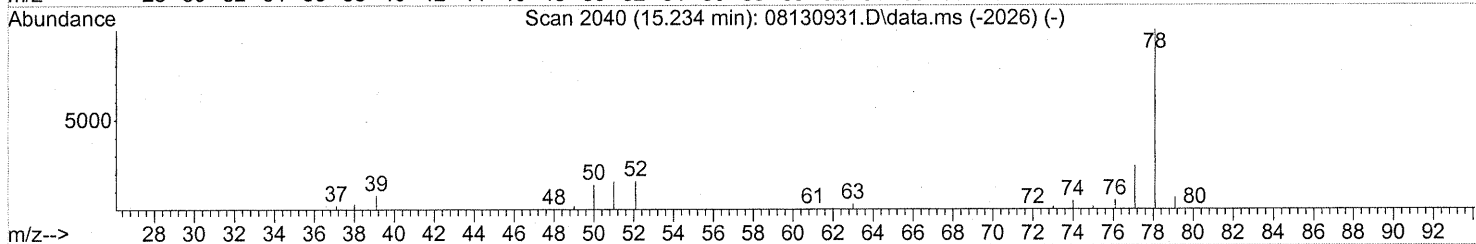
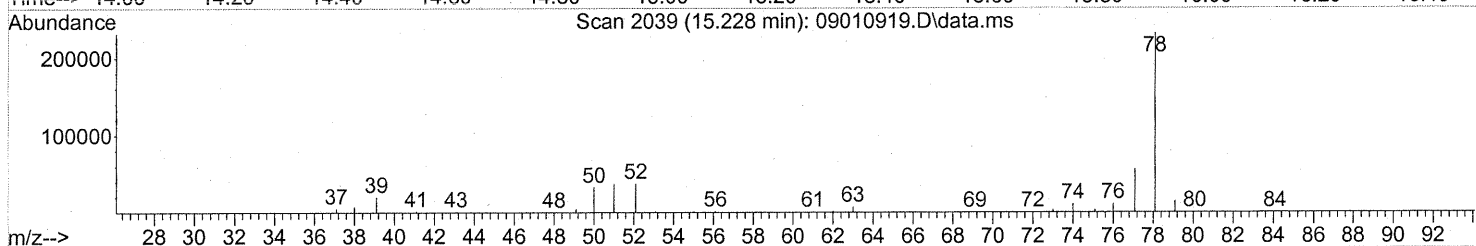
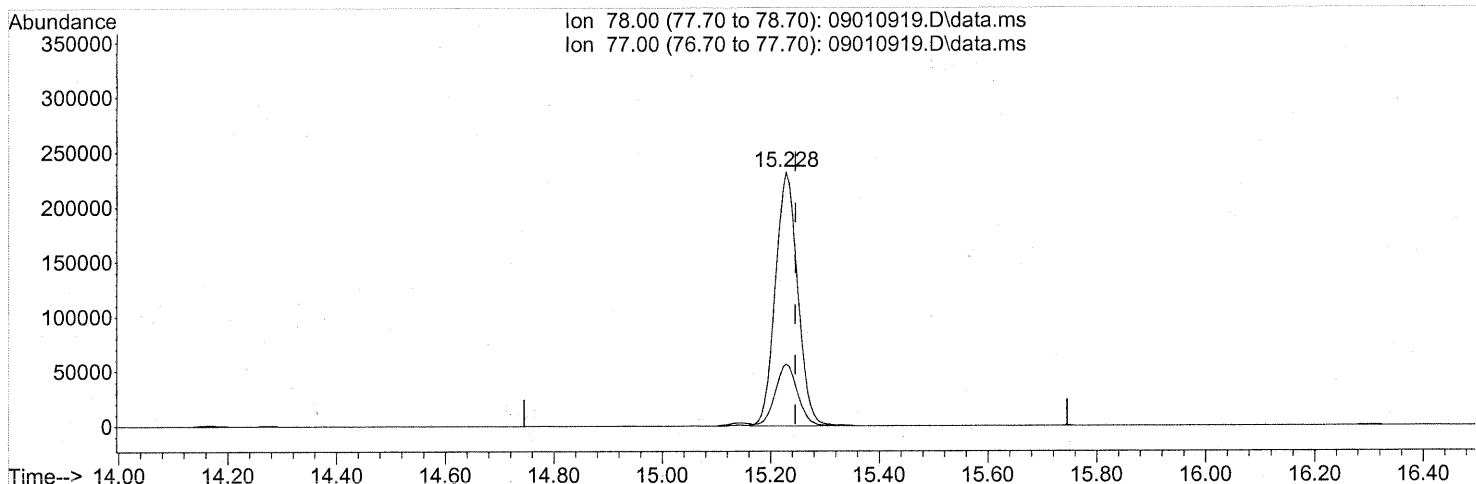
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	27.25
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
em 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(41) Benzene (T)

15.228min (-0.017) 7.08ng

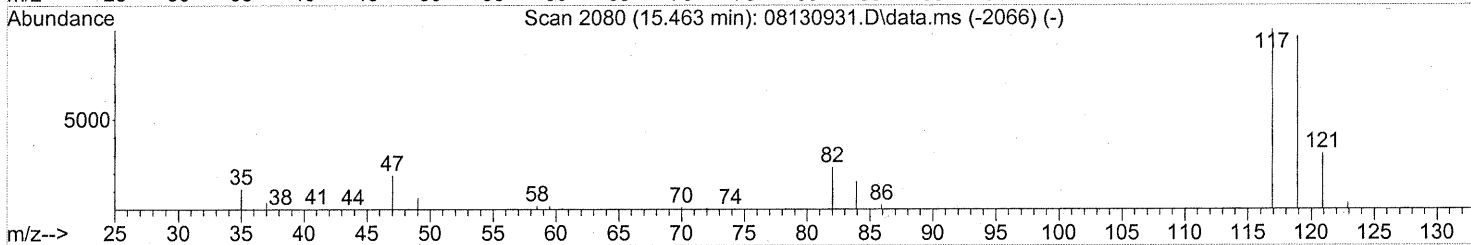
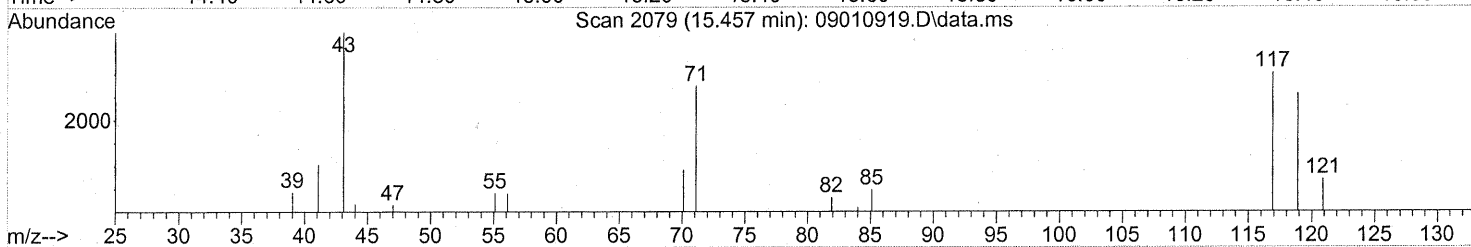
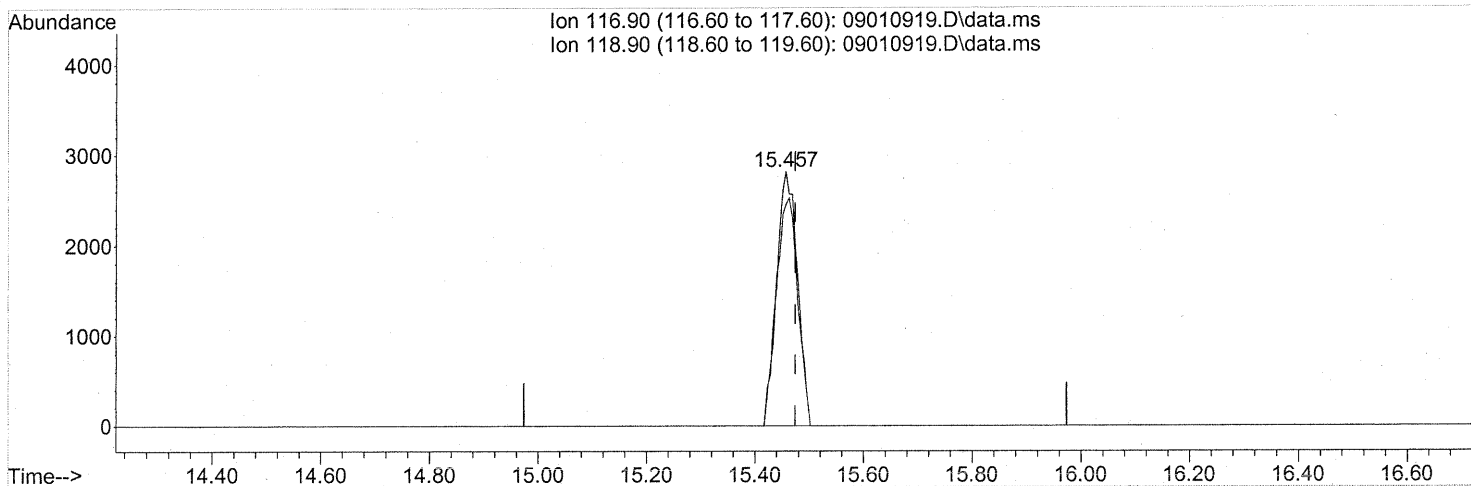
response 662694

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.29ng

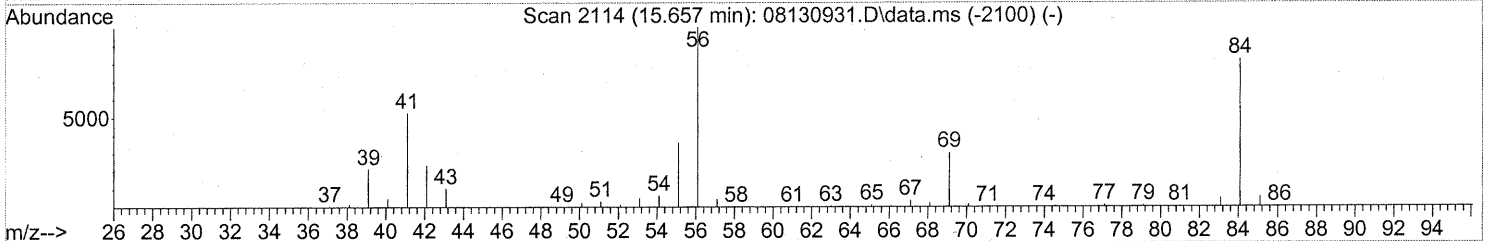
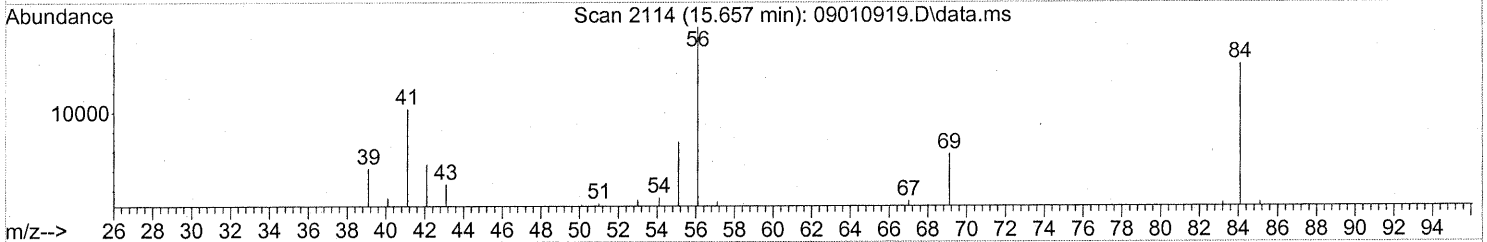
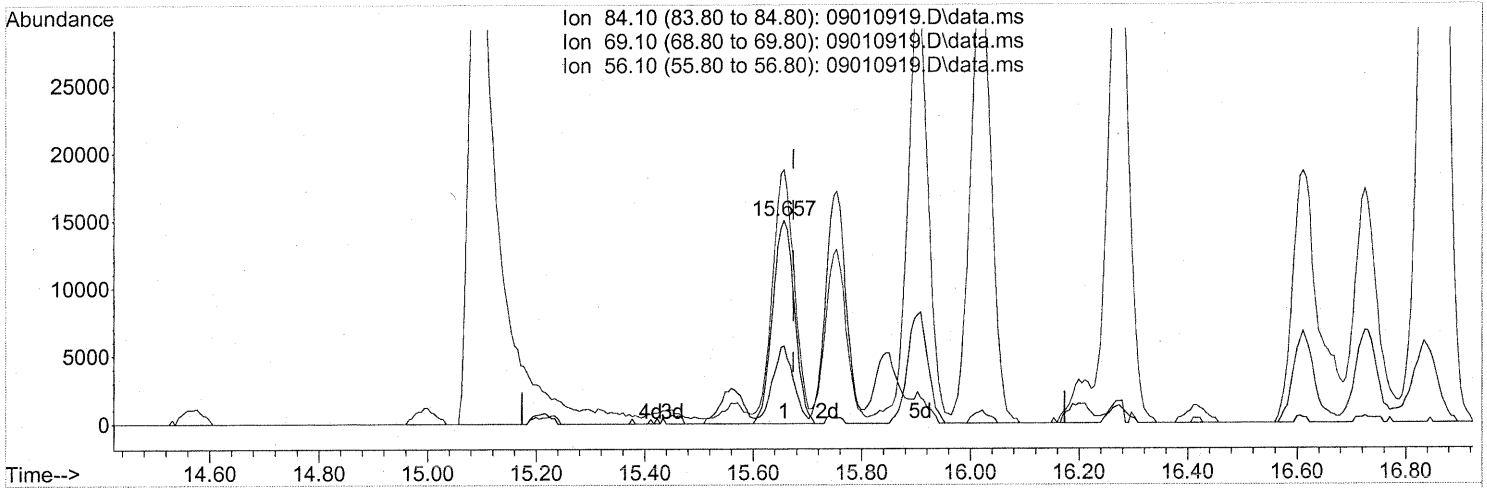
response 7498

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	92.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



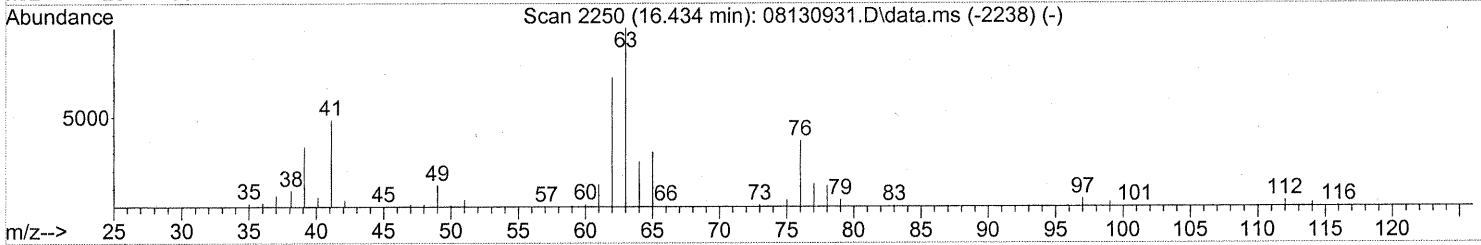
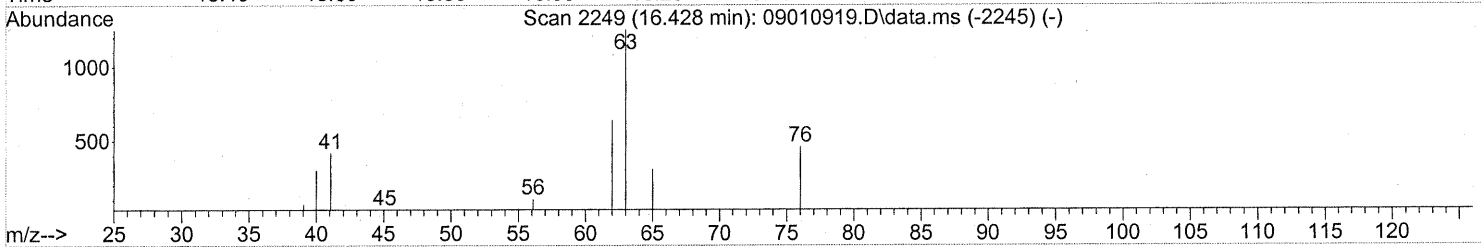
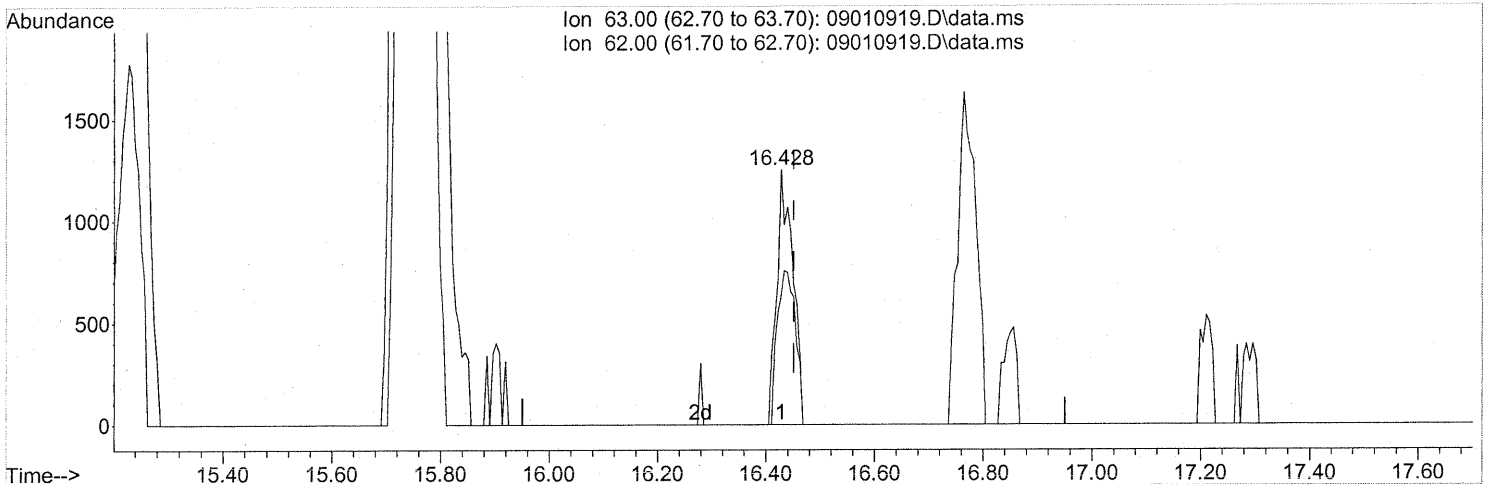
(43) Cyclohexane (T)
 15.657min (-0.017) 1.15ng
 response 41862

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	36.47
56.10	107.30	122.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(45) 1,2-Dichloropropane (T)

16.428min (-0.023) 0.11ng

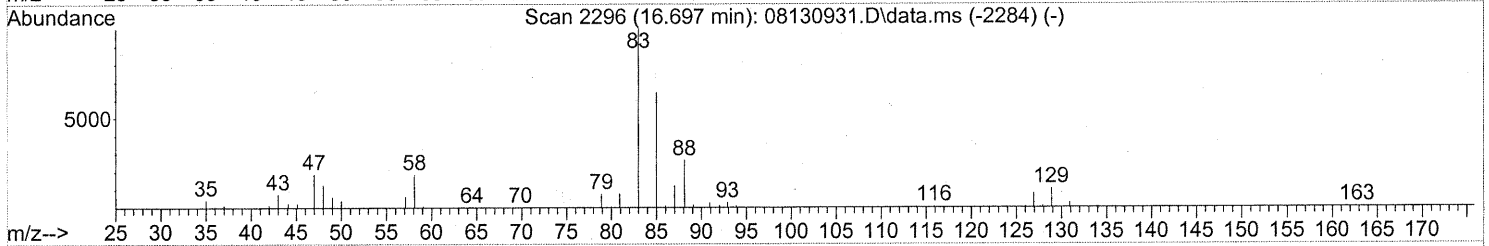
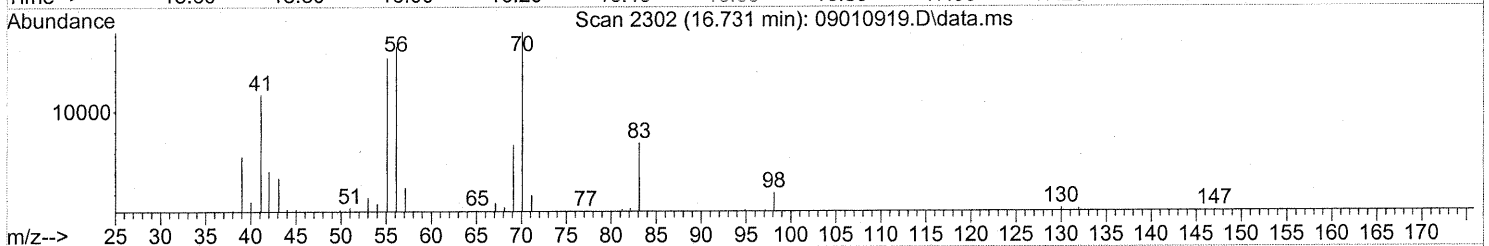
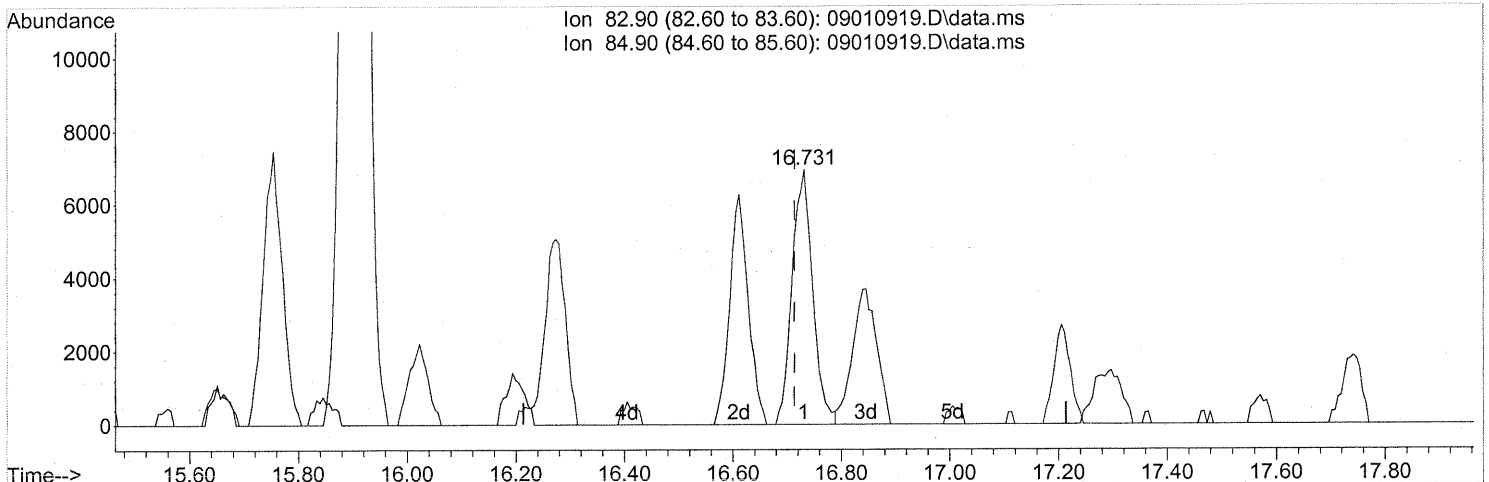
response 2548

Ion	Exp%	Act%
63.00	100	100
62.00	71.00	67.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.731min (+0.017) 0.67ng

response 18360

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

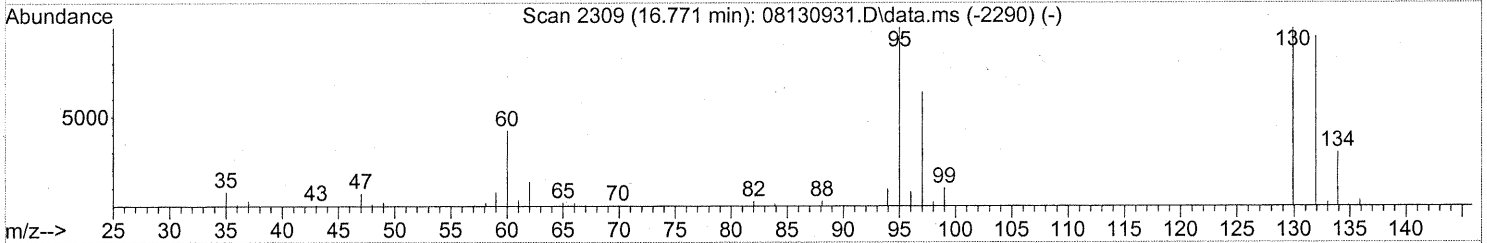
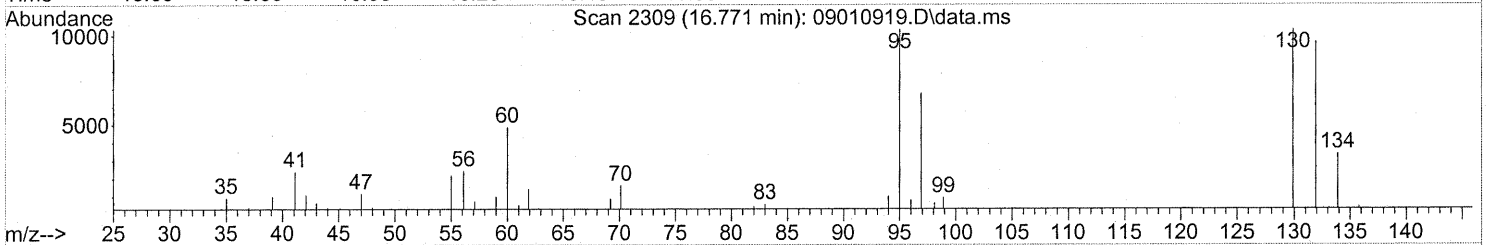
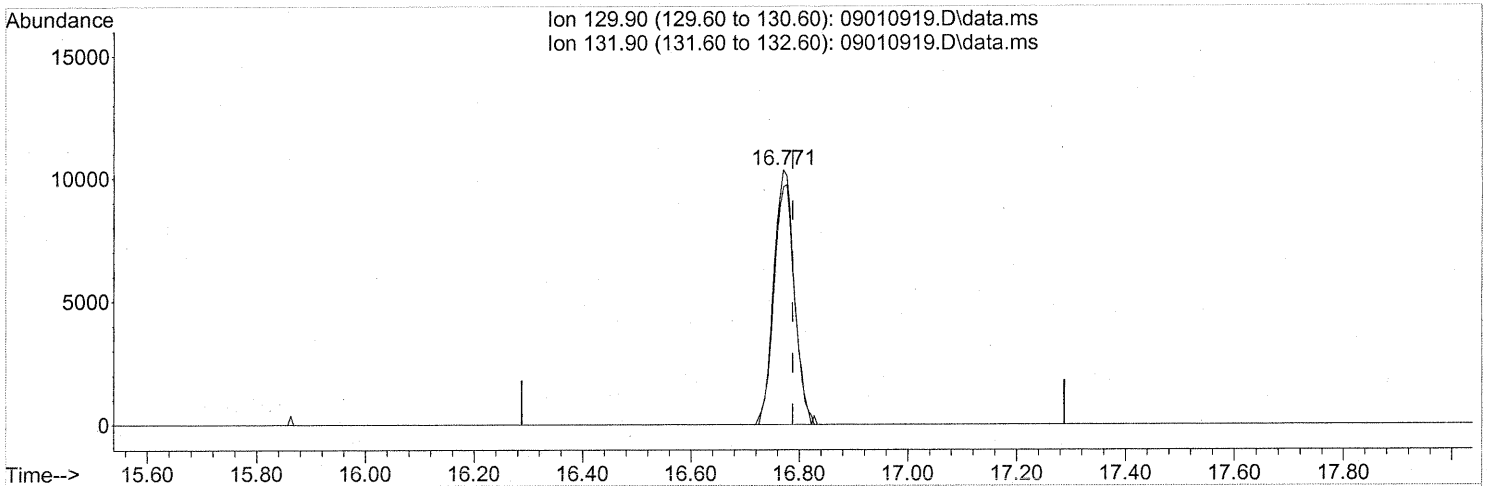
FP em 9/8/09

K29/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(47) Trichloroethene (T)

16.771min (-0.017) 1.14ng

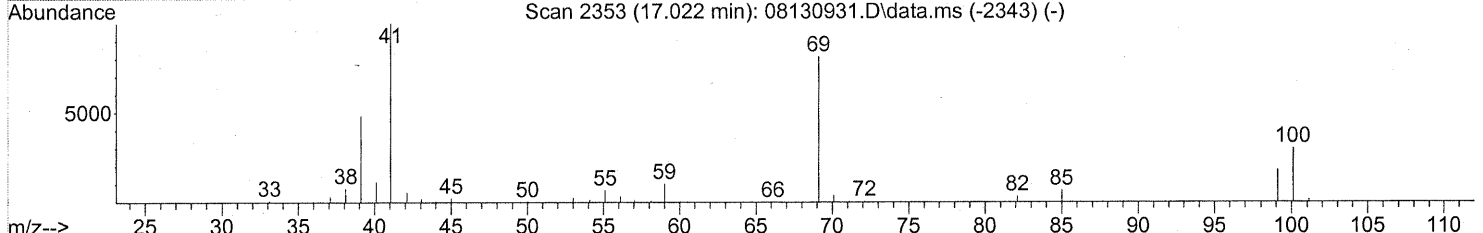
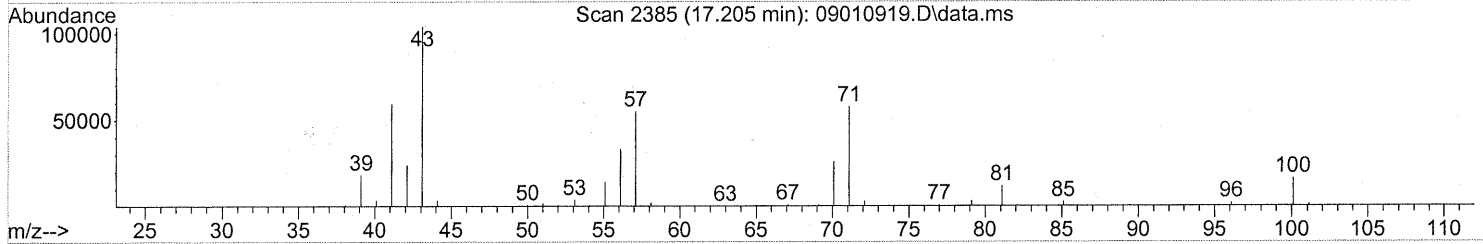
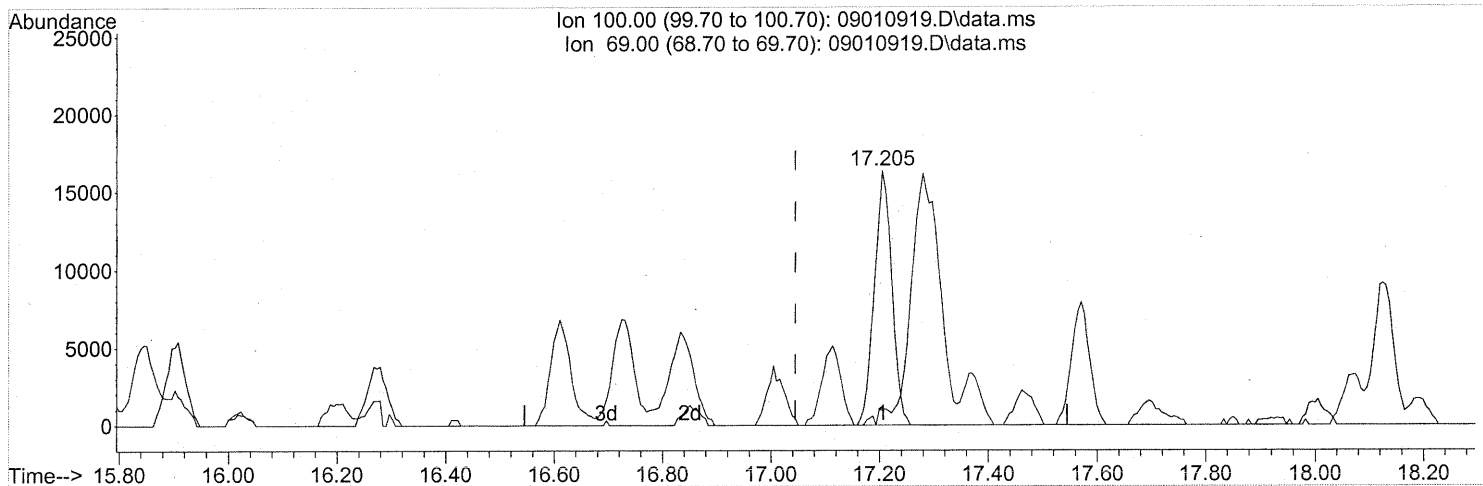
response 26995

Ion	Exp%	Act%
129.90	100	100
131.90	95.60	94.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(50) Methyl Methacrylate (T)

17.205min (+0.160) 3.91ng

response 36580

Ion	Exp%	Act%
100.00	100	100
69.00	261.10	5.59#
0.00	0.00	0.00
0.00	0.00	0.00

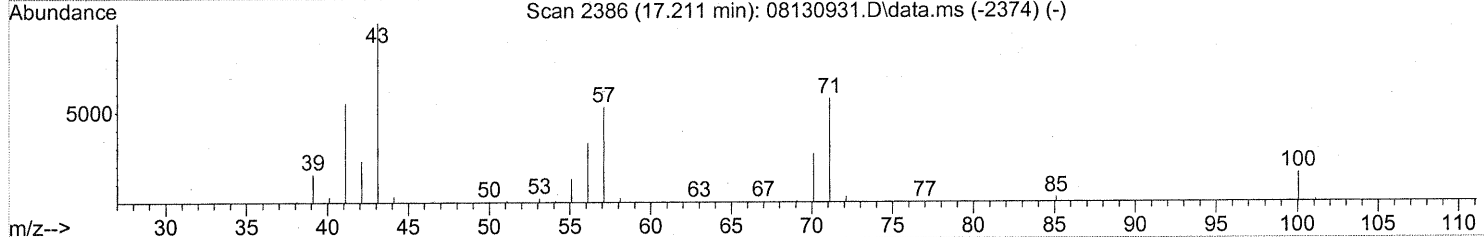
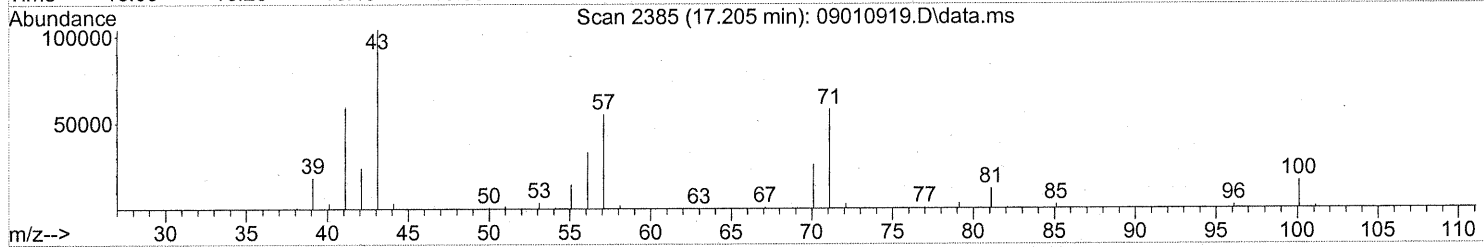
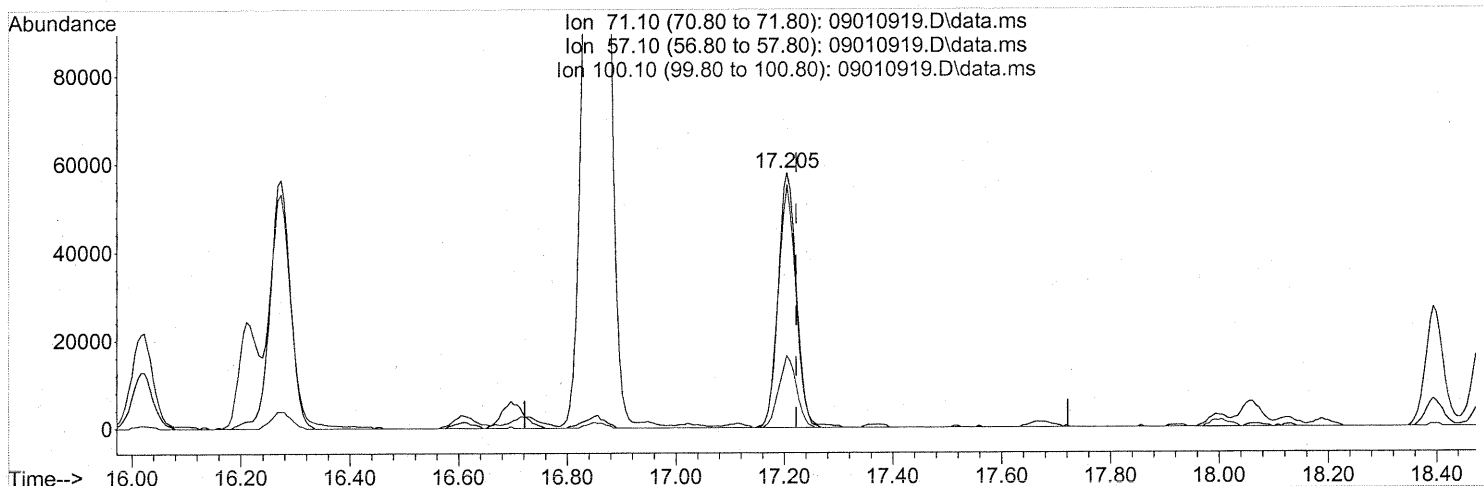
FP em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(51) n-Heptane (T)

17.205min (-0.017) 5.36ng

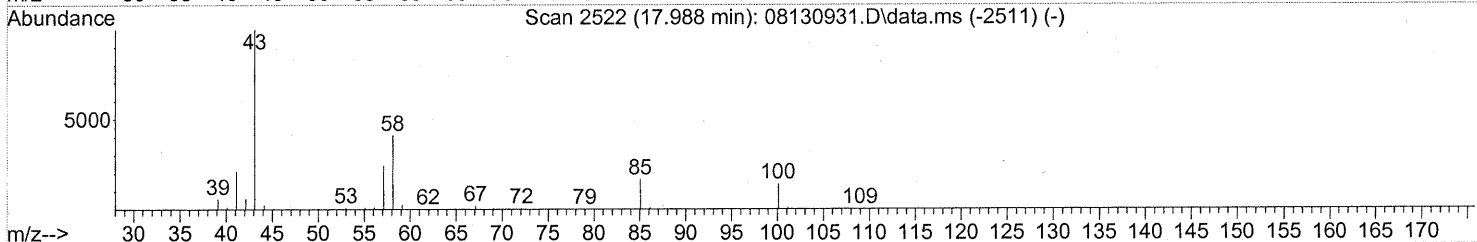
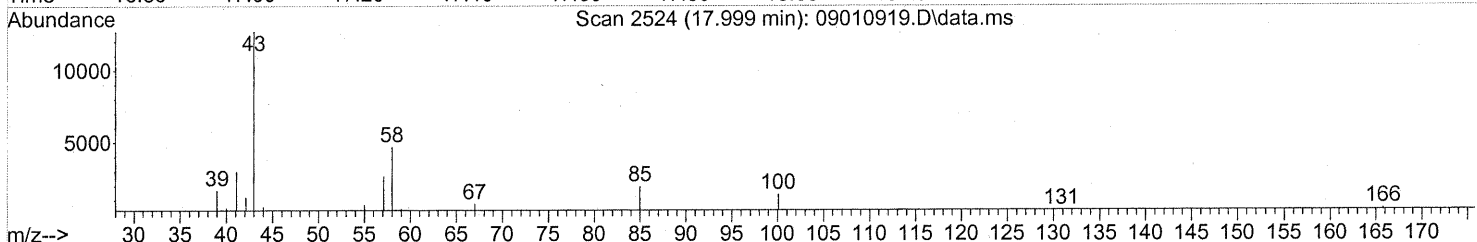
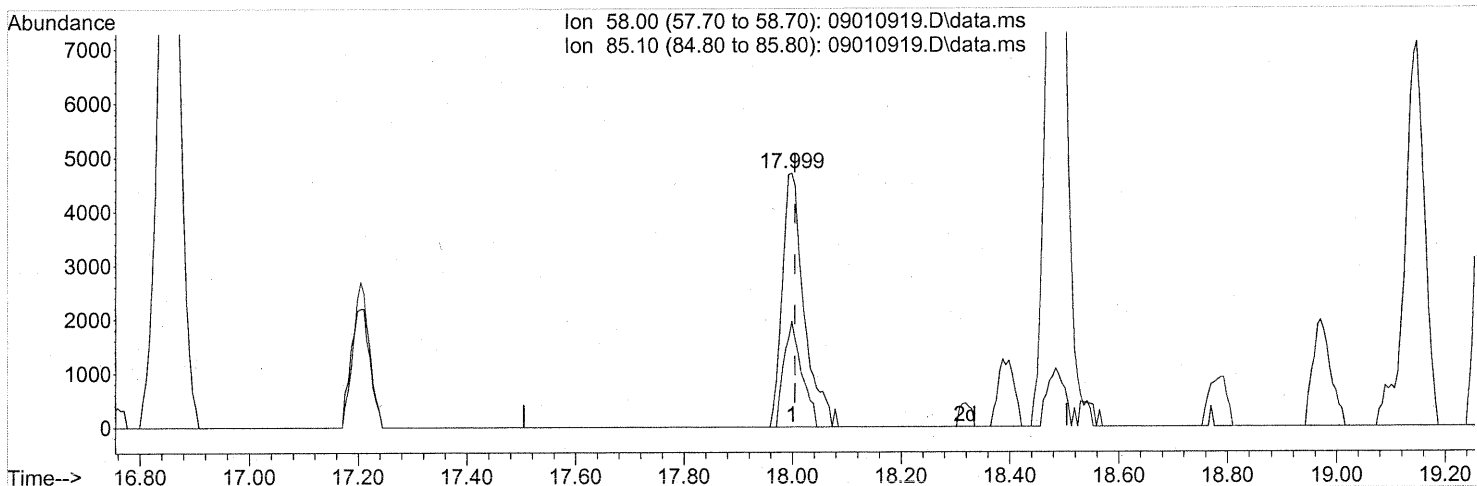
response 133668

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	93.83
100.10	30.70	27.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09010919.D\data.ms

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

17.999min (-0.006) 0.65ng

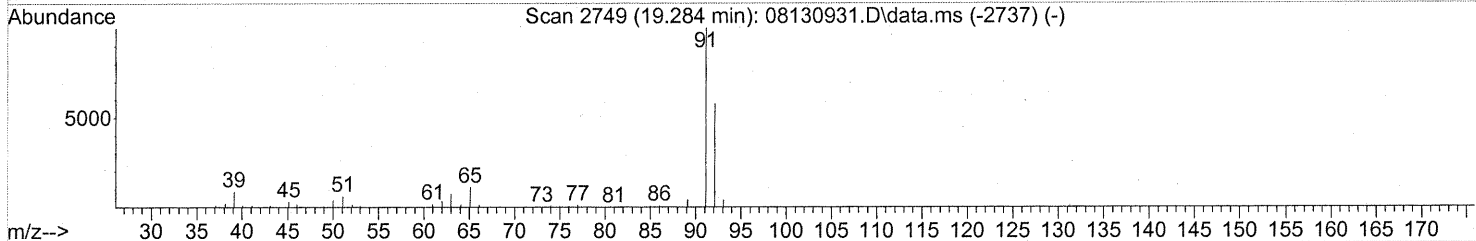
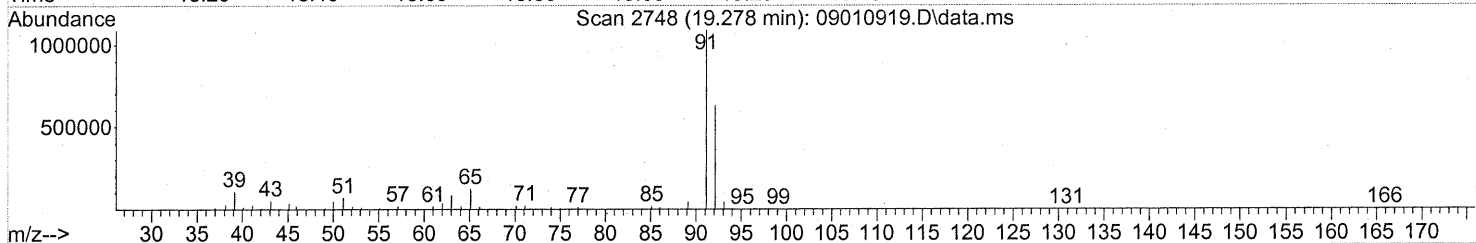
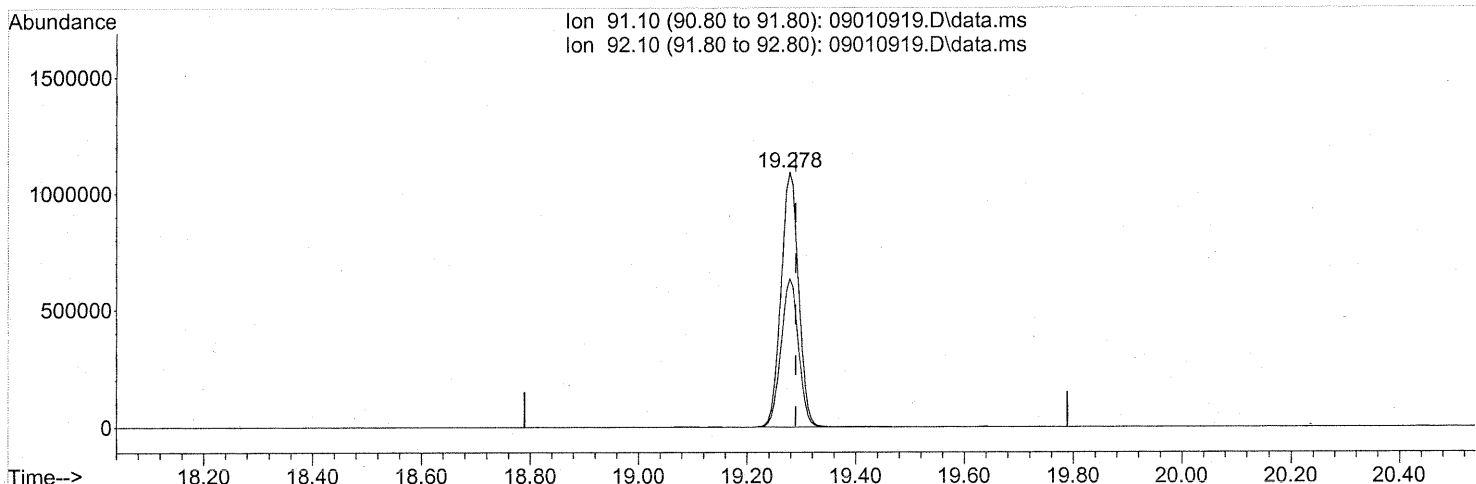
response 13050

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	34.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
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 Misc : Environmental H & E 103993
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TIC: 09010919.D\data.ms

(58) Toluene (T)

19.278min (-0.011) 24.51ng

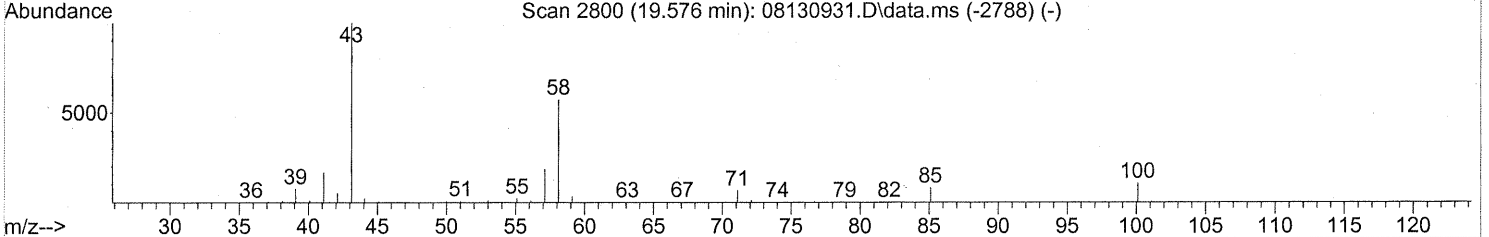
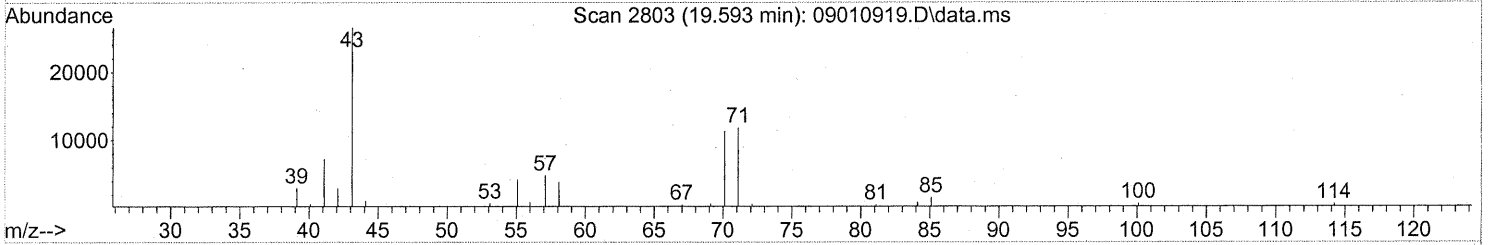
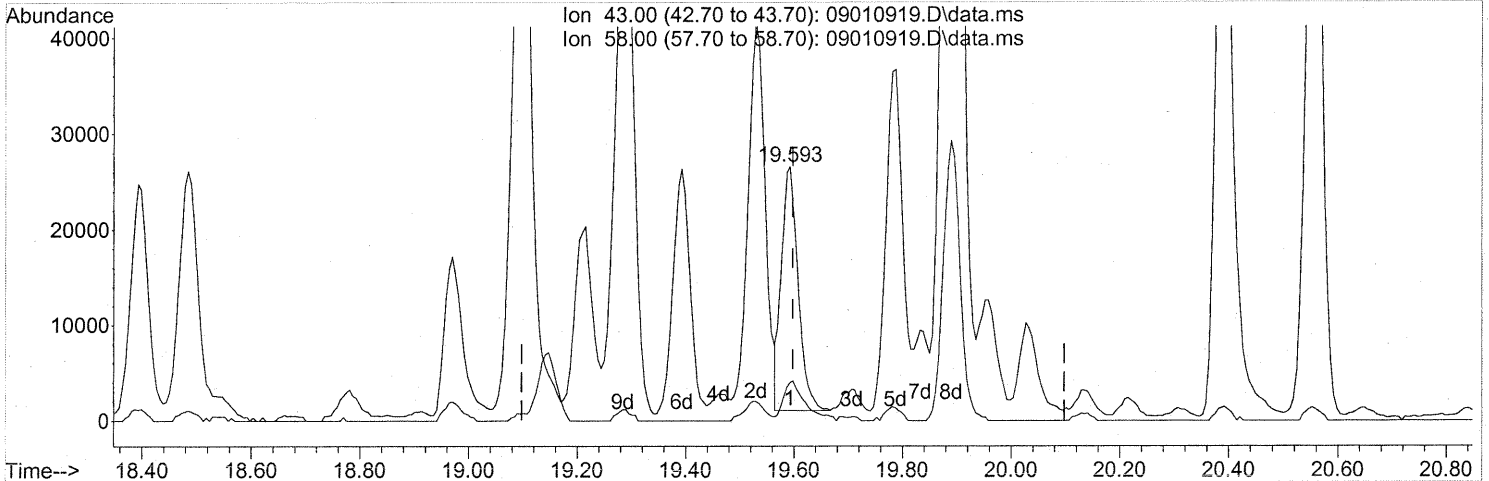
response 2444328

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
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 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.593min (-0.005) 1.05ng
 response 54451

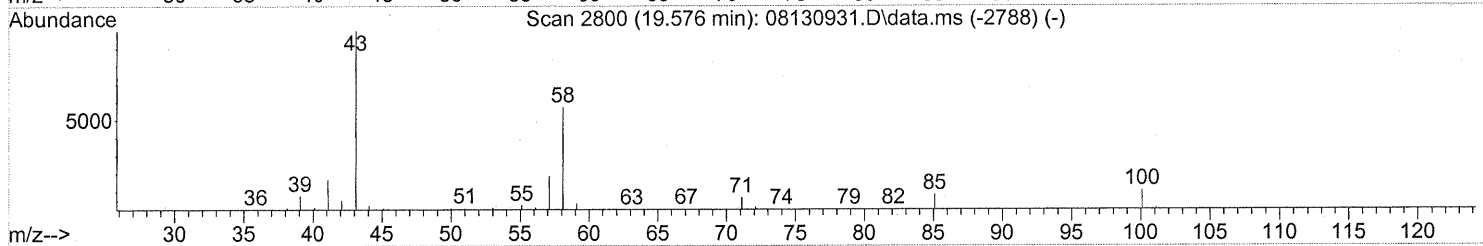
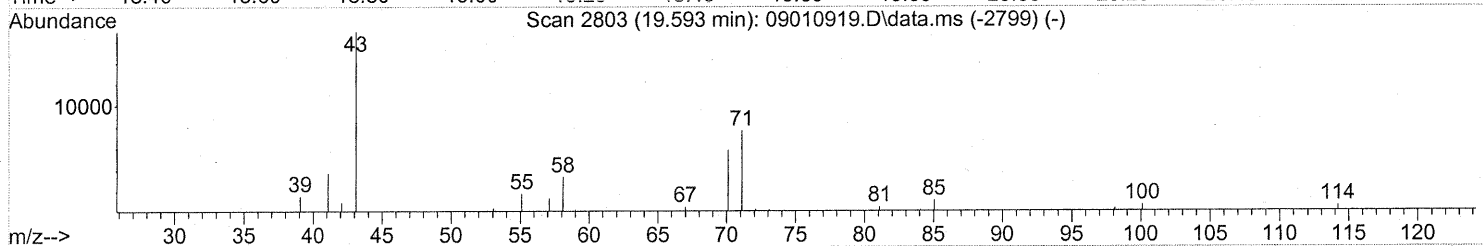
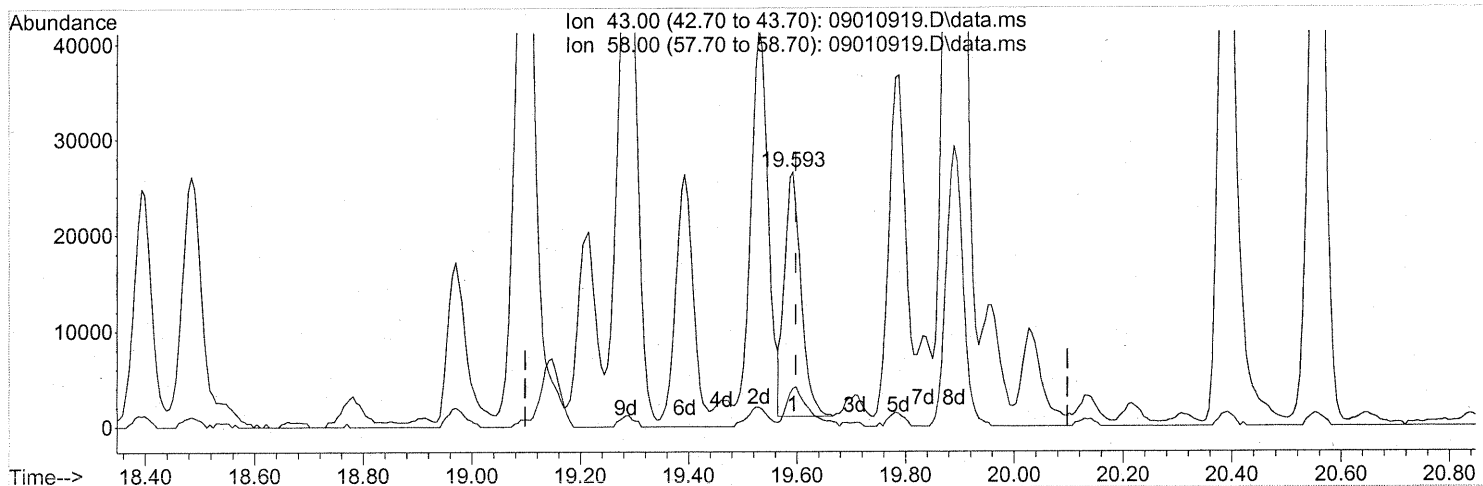
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	20.84#
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(59) 2-Hexanone (T)

19.593min (-0.005) 1.05ng

response 54451

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	20.84#
0.00	0.00	0.00
0.00	0.00	0.00

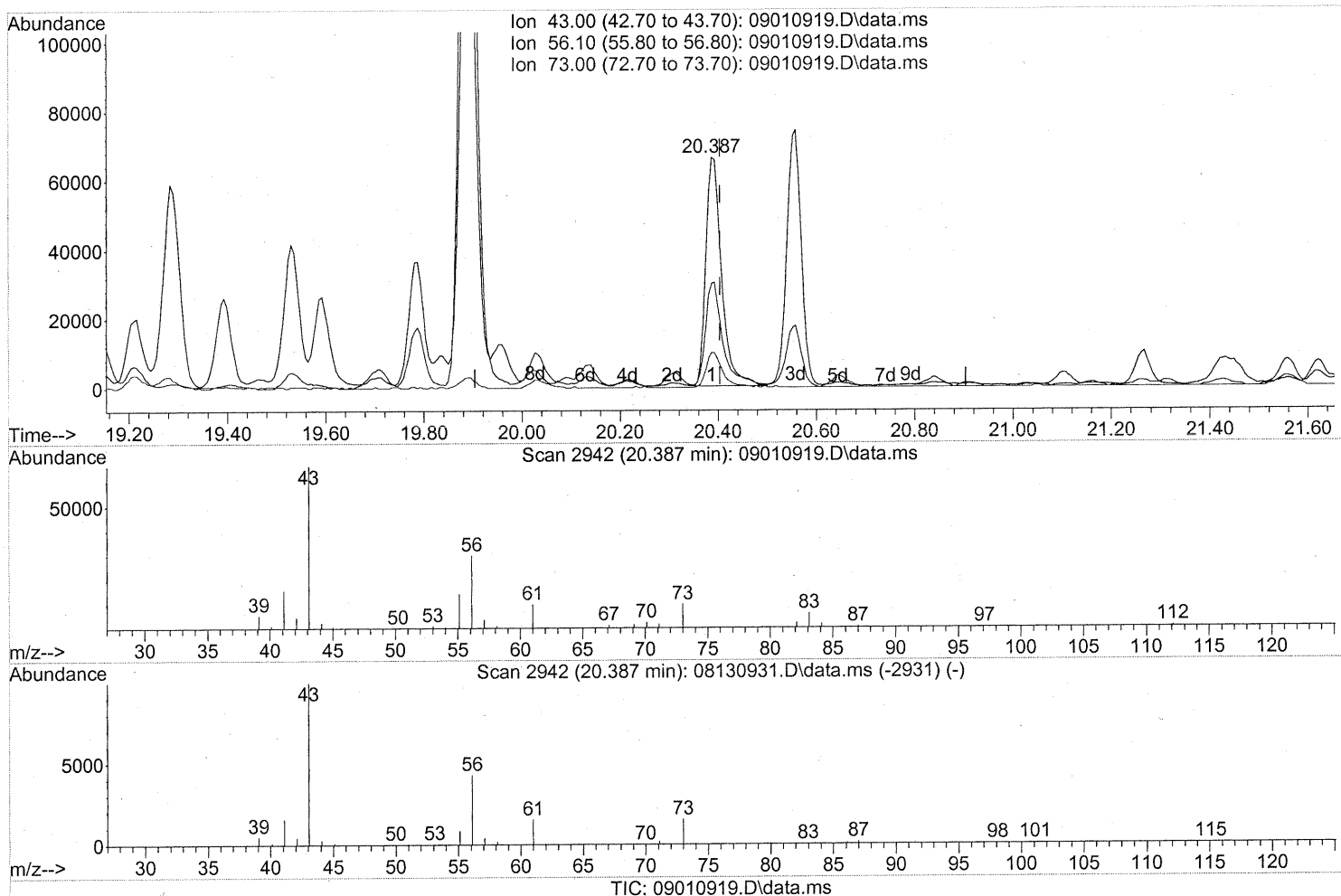
After subtraction

EM 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



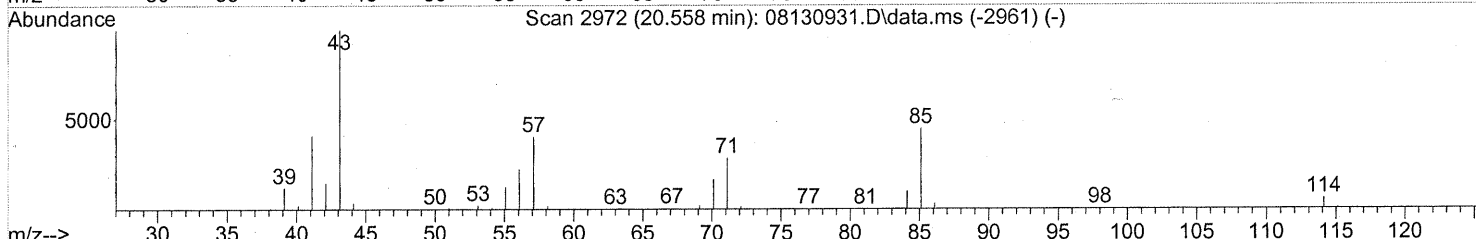
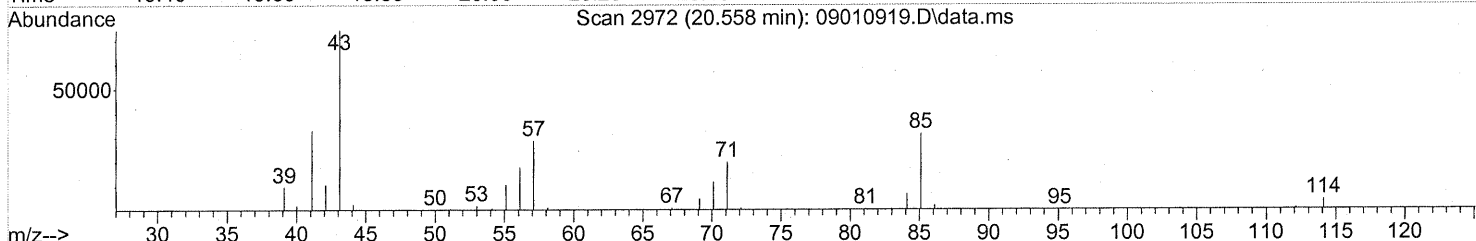
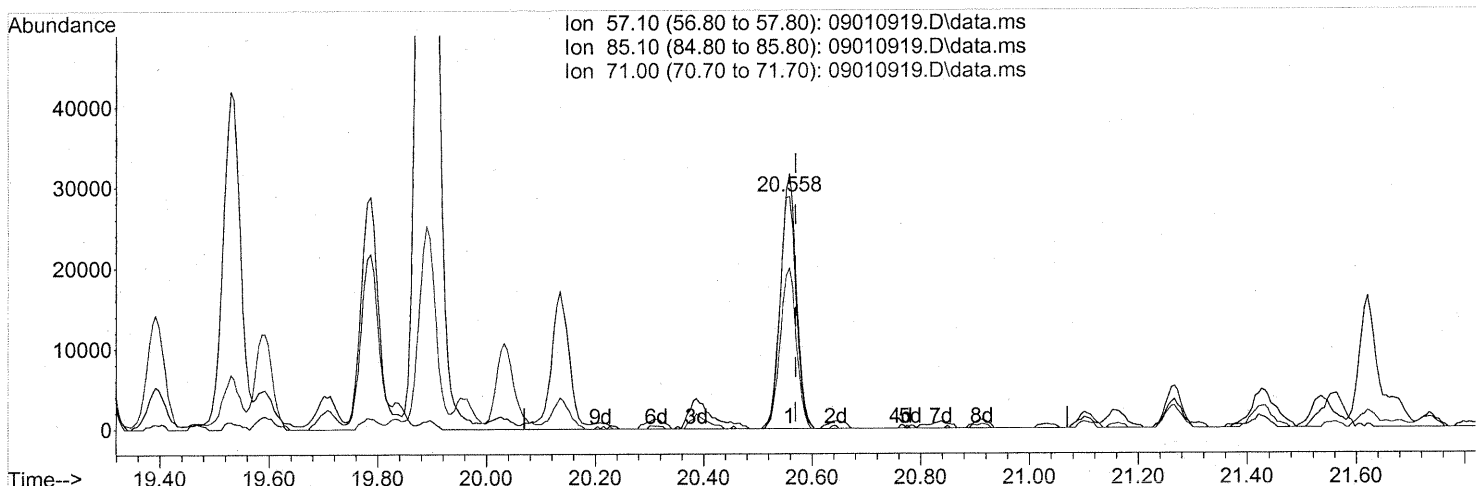
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 2.63ng
 response 149007

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	48.57
73.00	16.90	15.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.558min (-0.011) 2.72ng

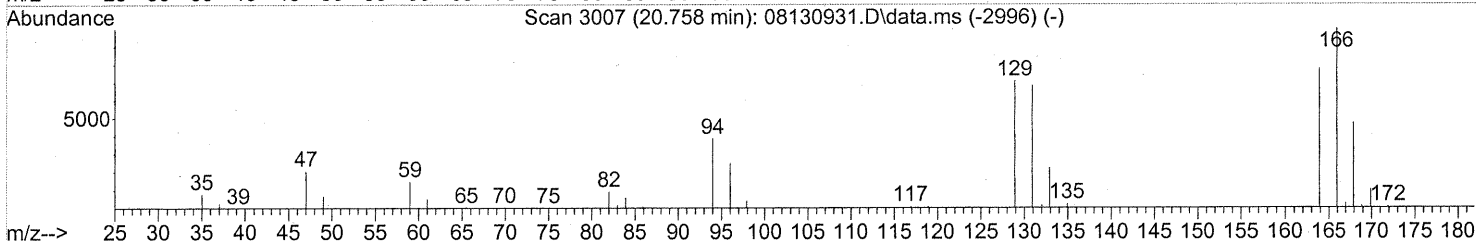
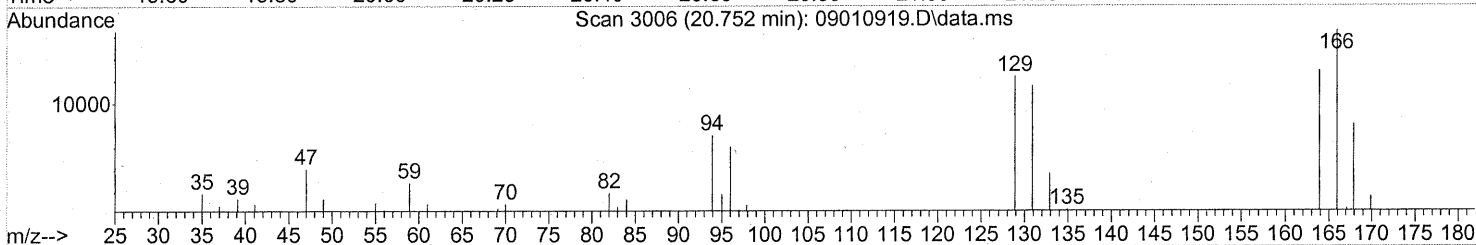
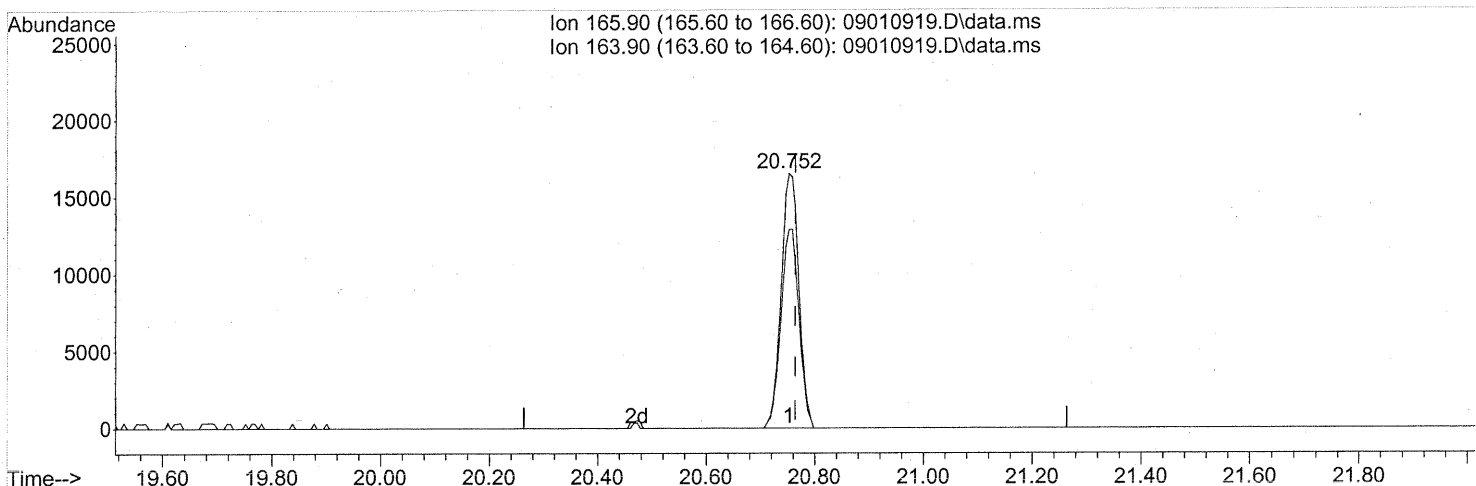
response 60399

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	105.03
71.00	75.10	67.82
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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TIC: 09010919.D\data.ms

(64) Tetrachloroethene (T)

20.752min (-0.011) 1.51ng

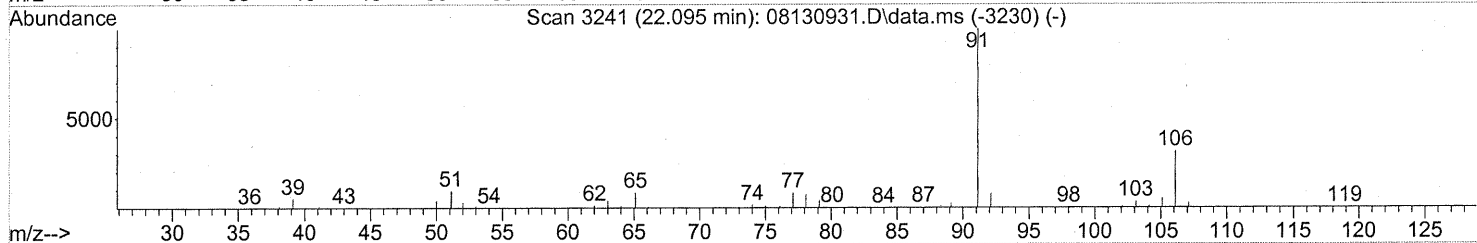
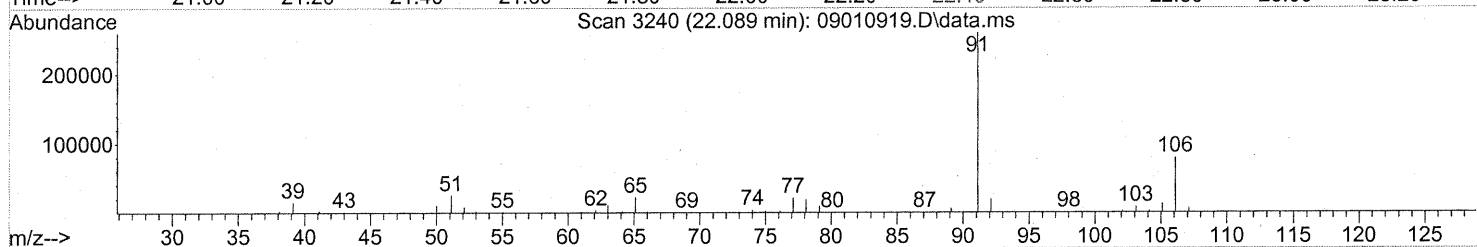
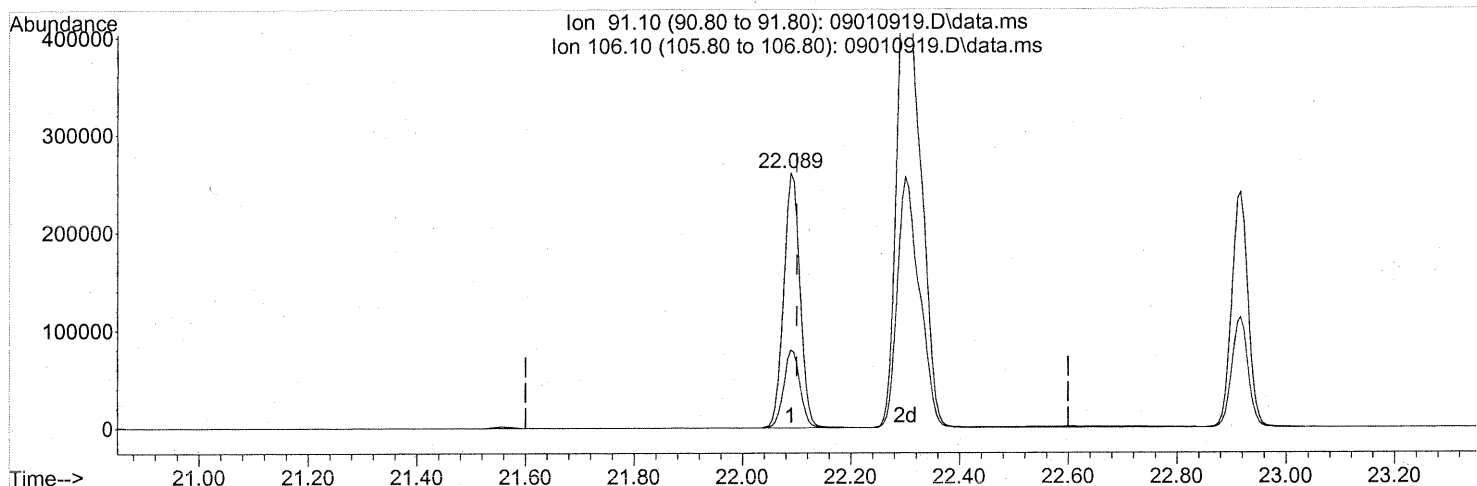
response 37264

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	79.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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TIC: 09010919.D\data.ms

(66) Ethylbenzene (T)

22.089min (-0.011) 5.07ng

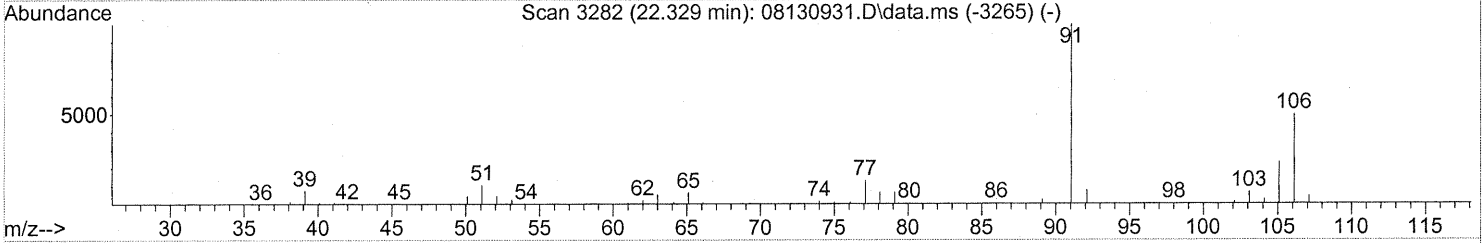
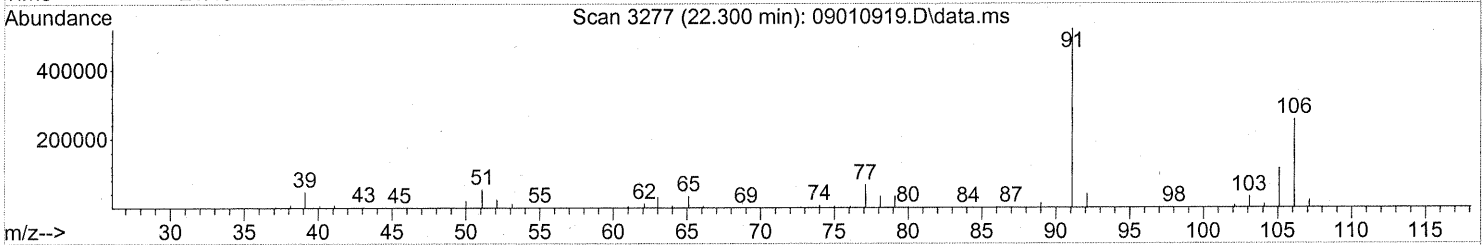
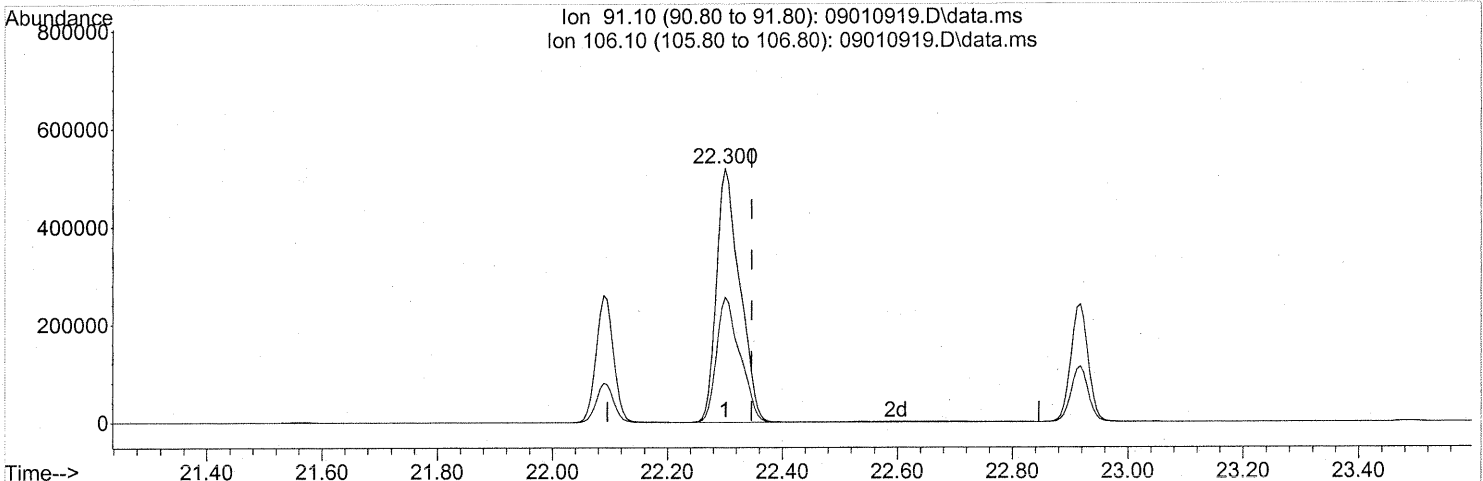
response 545802

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
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TIC: 09010919.D\data.ms

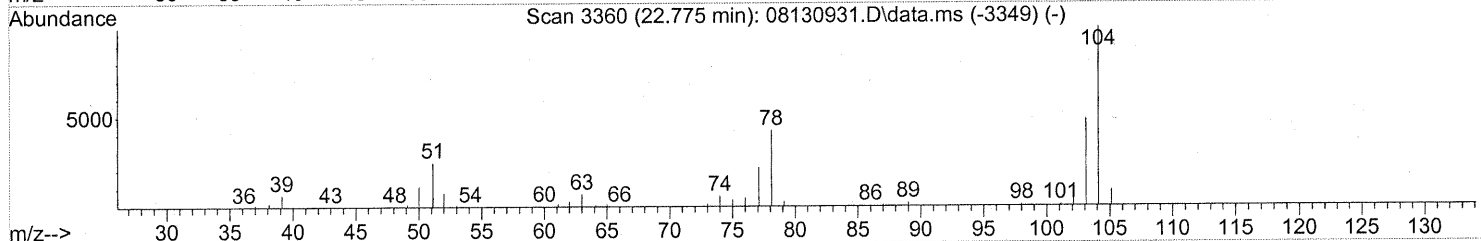
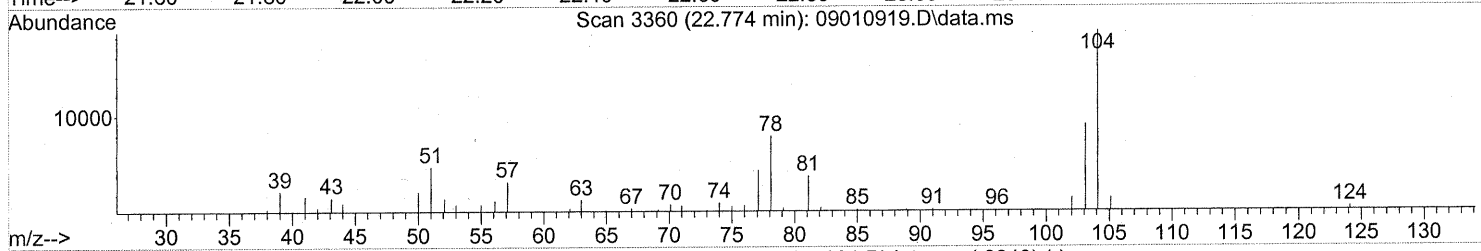
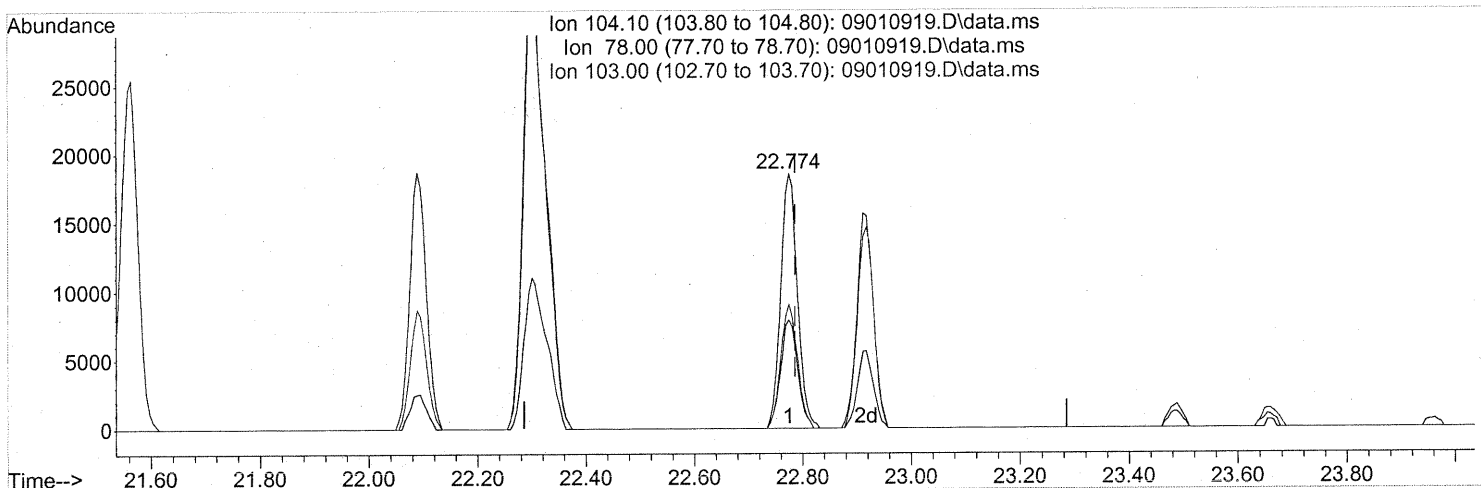
(67) m- & p-Xylenes (T)
 22.300min (-0.046) 17.12ng
 response 1461315

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
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 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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TIC: 09010919.D\data.ms

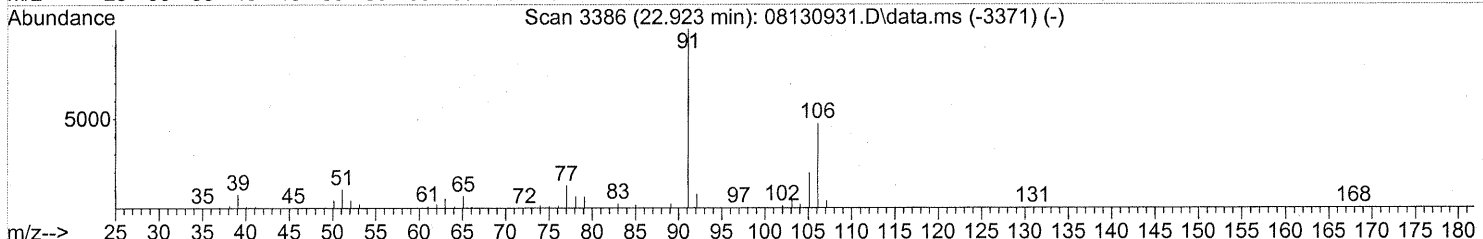
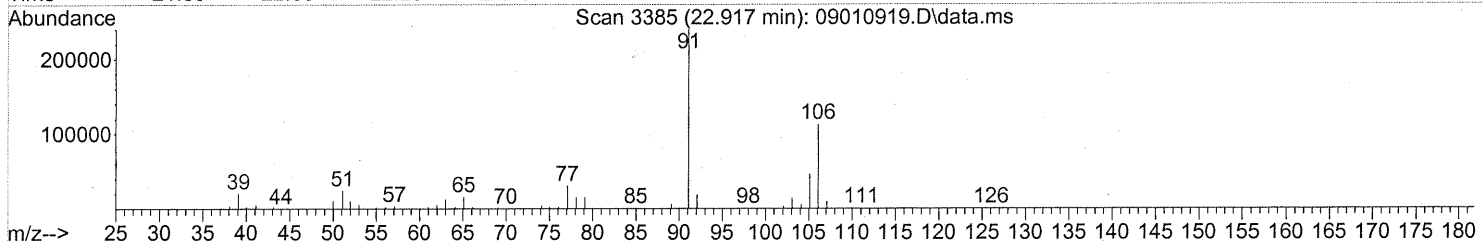
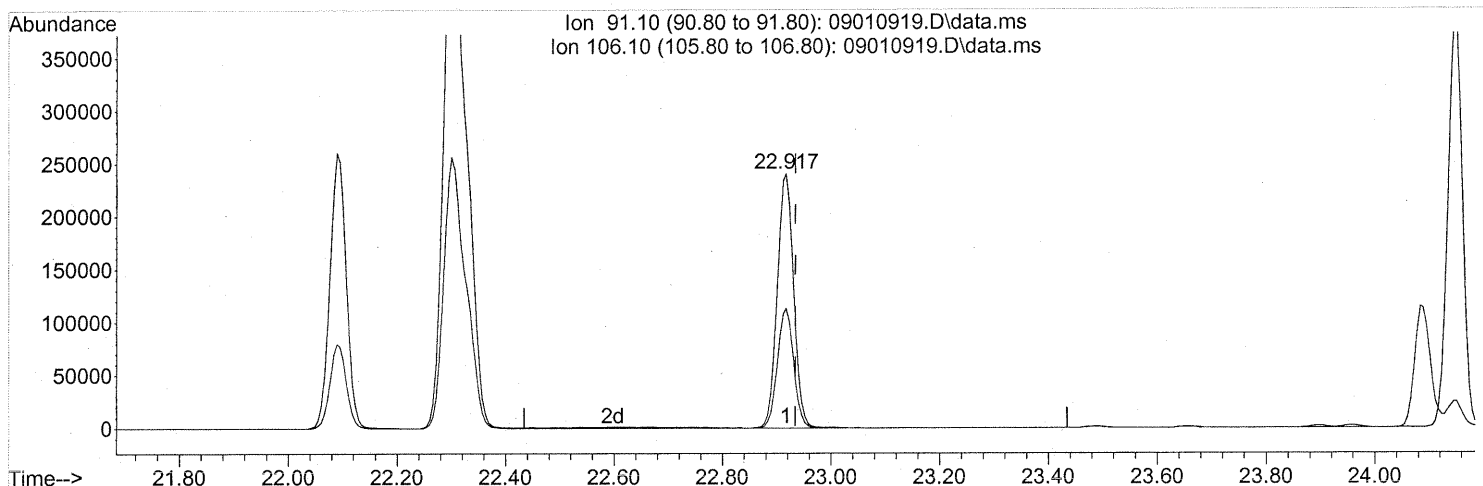
(69) Styrene (T)
 22.774min (-0.011) 0.63ng
 response 39600

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	43.51
103.00	48.70	49.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
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 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(70) o-Xylene (T)

22.917min (-0.017) 5.85ng

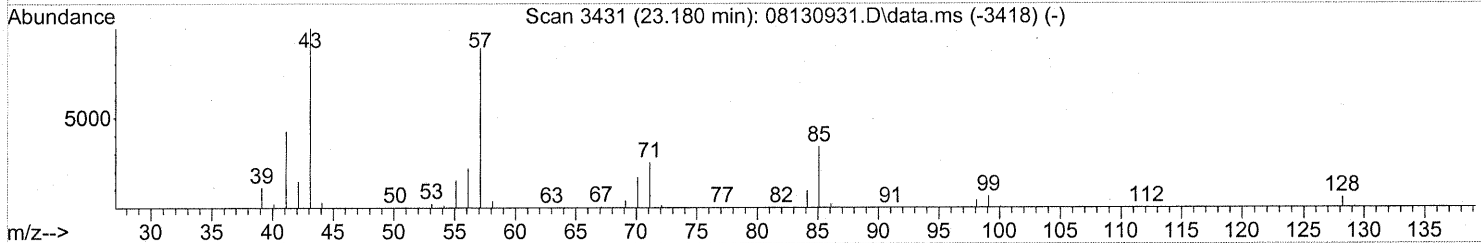
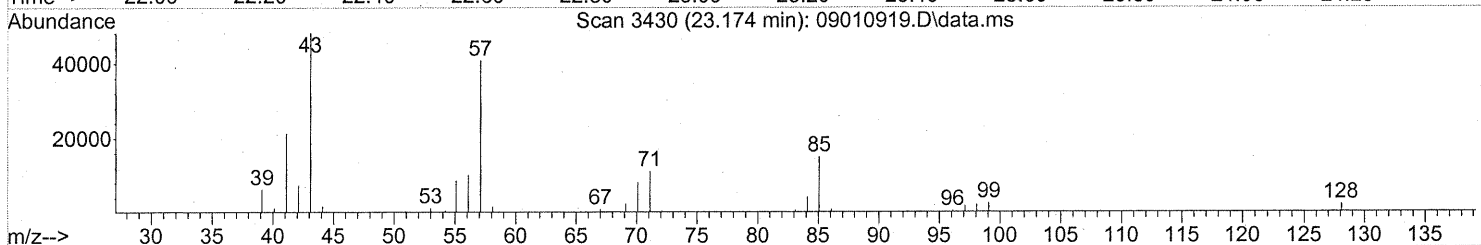
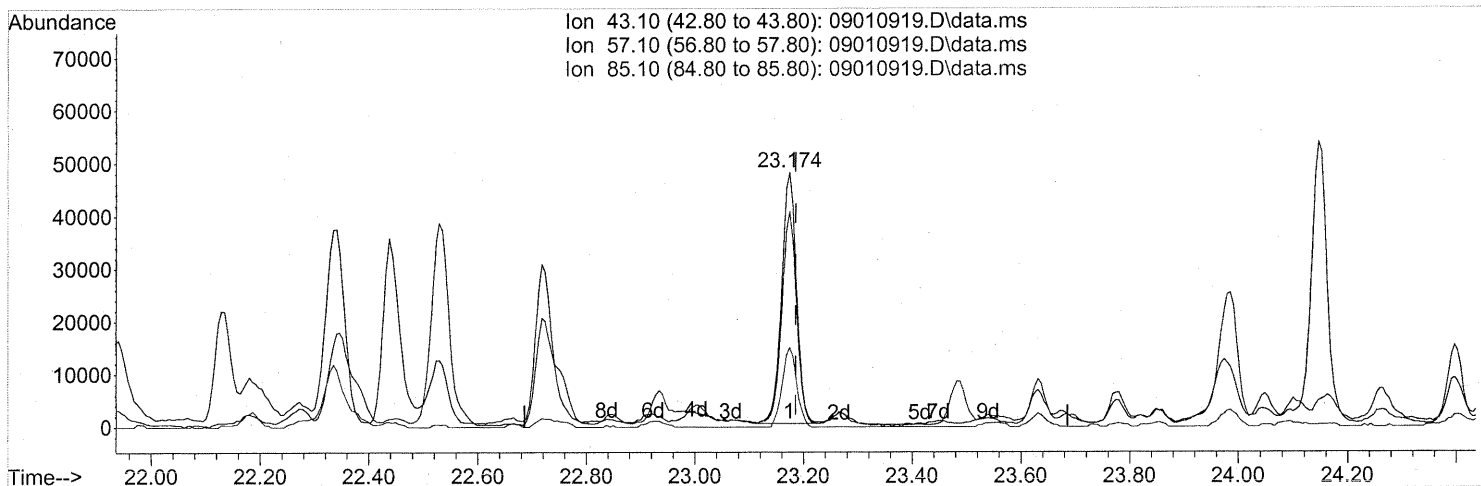
response 502281

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
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 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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TIC: 09010919.D\data.ms

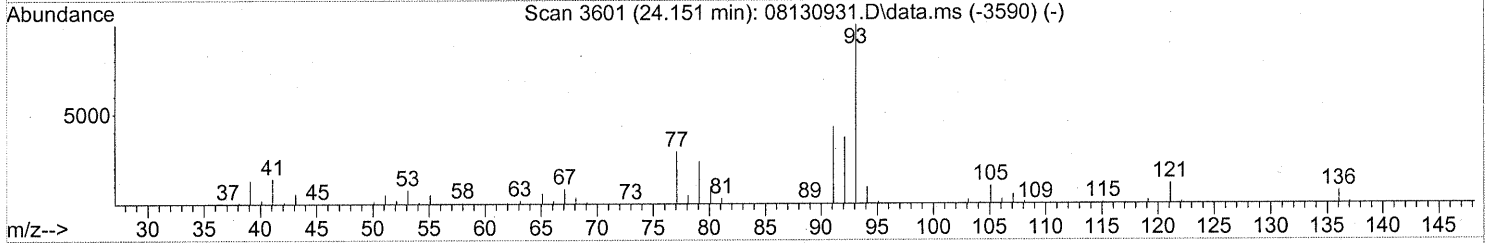
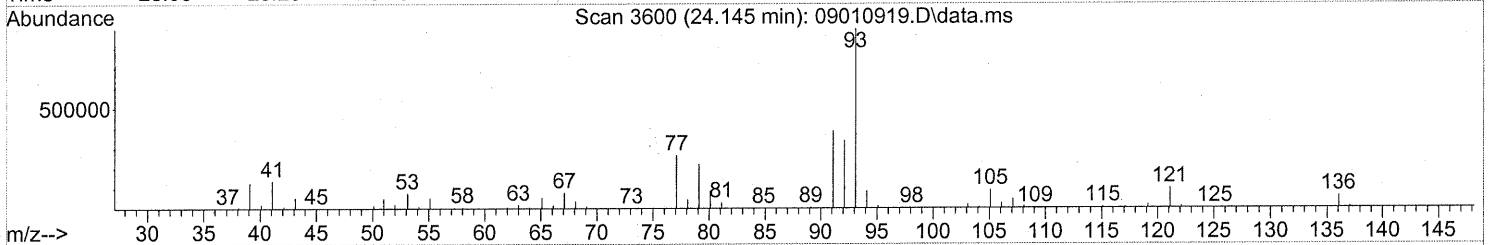
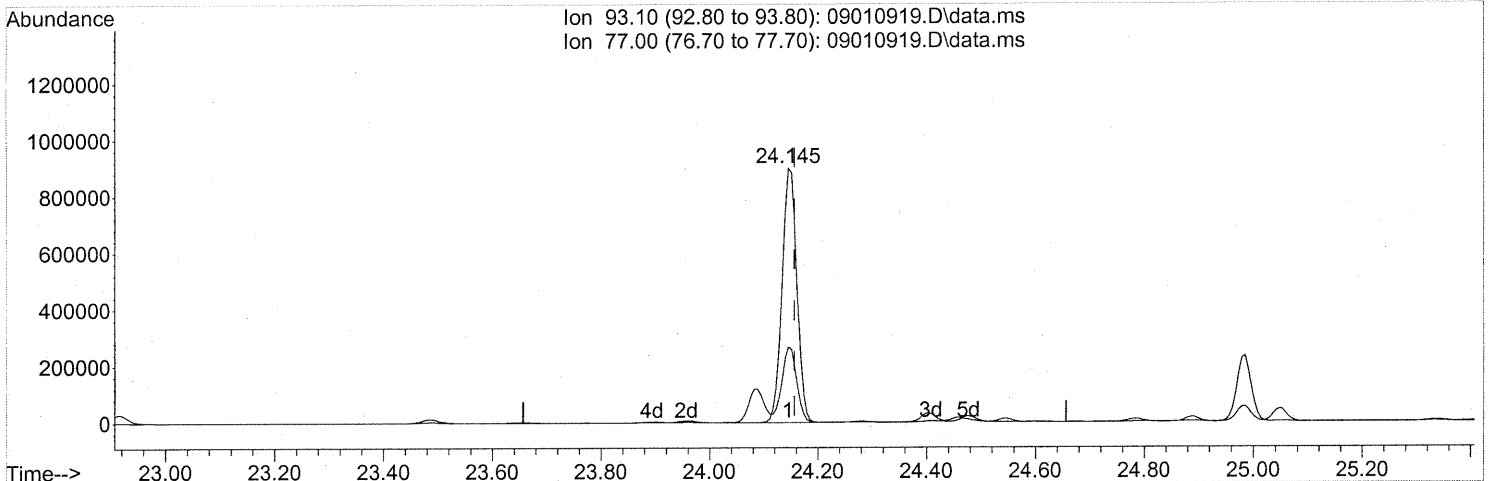
(71) n-Nonane (T)
 23.174min (-0.011) 1.76ng
 response 91235

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	83.78
85.10	38.80	30.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
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 Misc : Environmental H & E 103993
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TIC: 09010919.D\data.ms

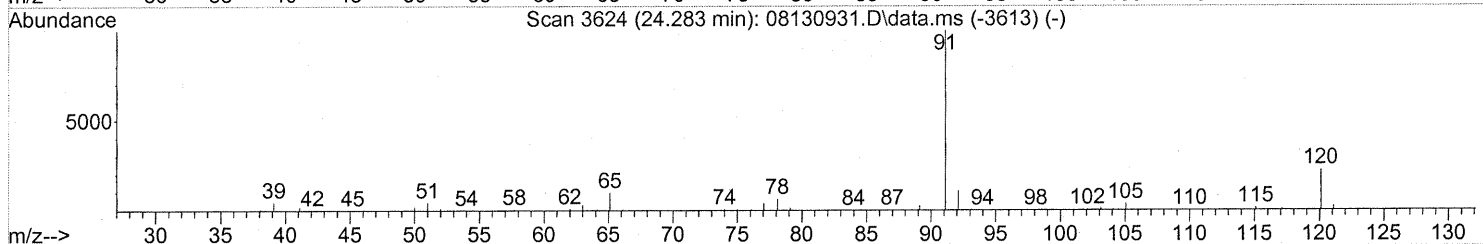
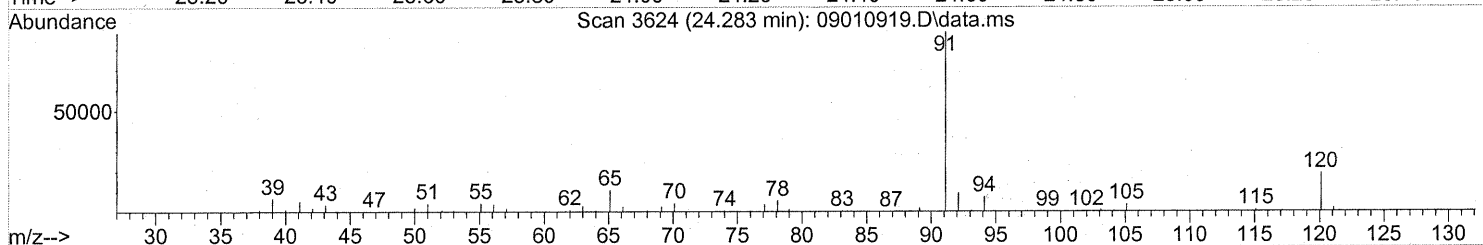
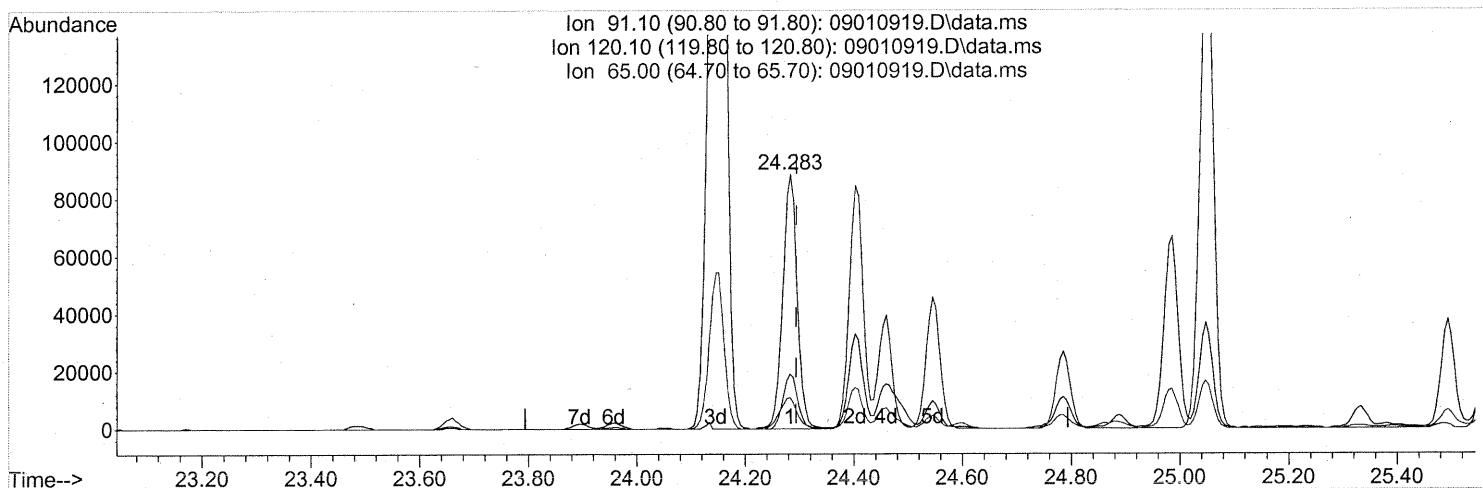
(75) alpha-Pinene (T)
 24.145min (-0.011) 31.03ng
 response 1705034

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(76) n-Propylbenzene (T)

24.283min (-0.011) 1.20ng

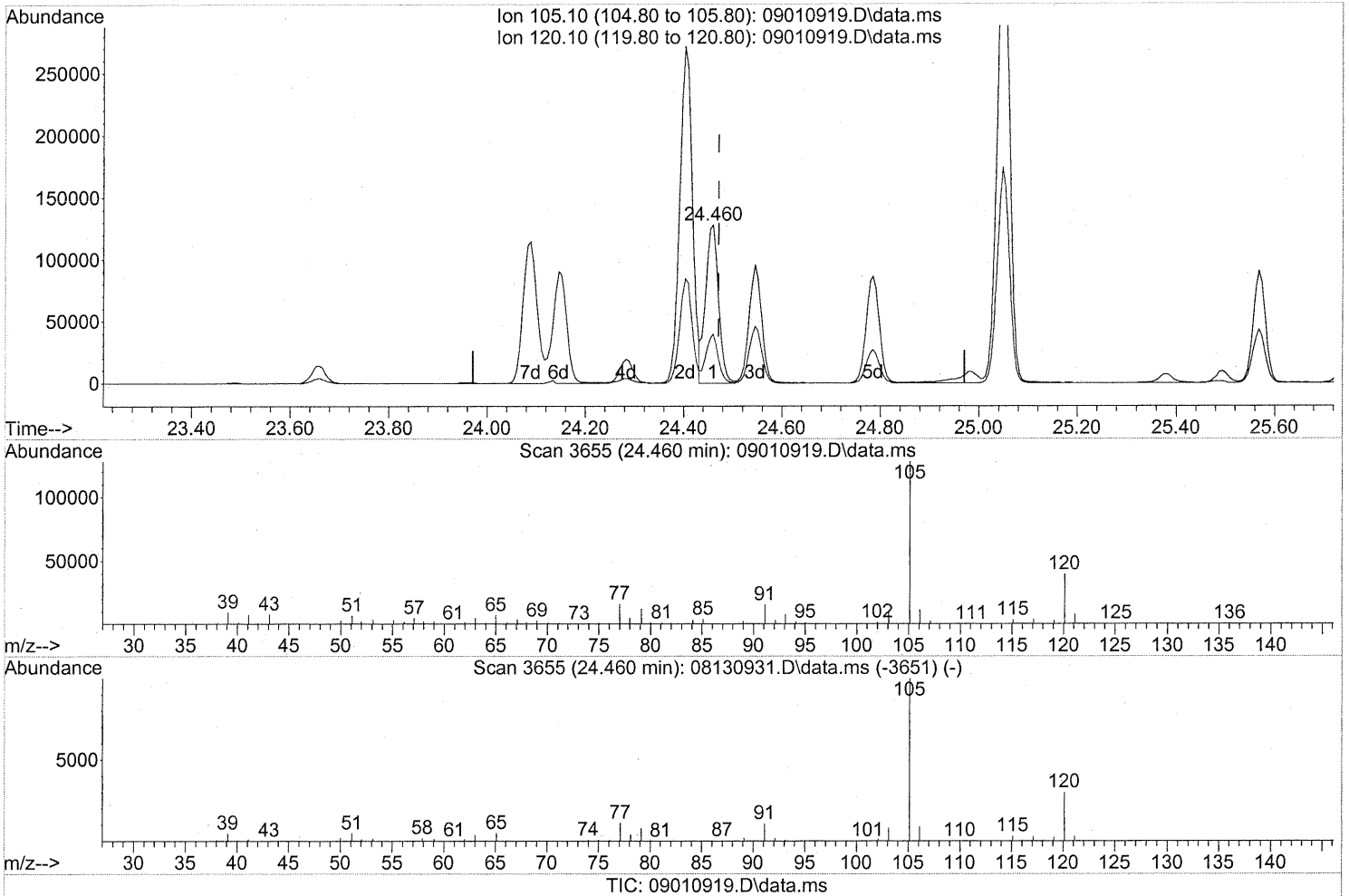
response 165223

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	21.53
65.00	10.20	15.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
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 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



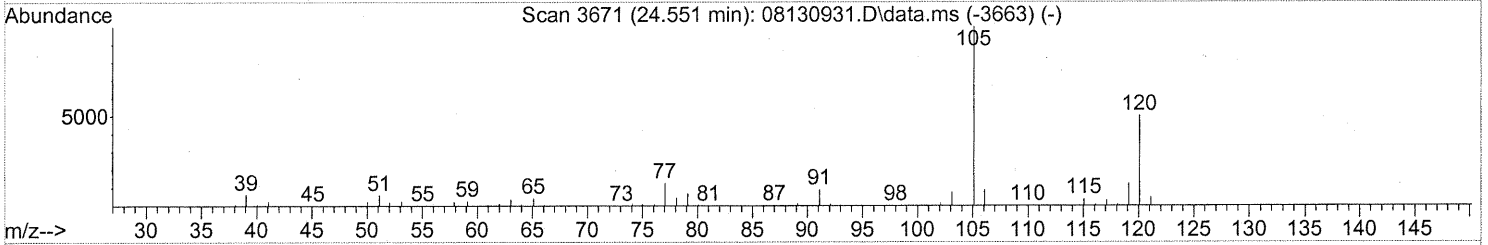
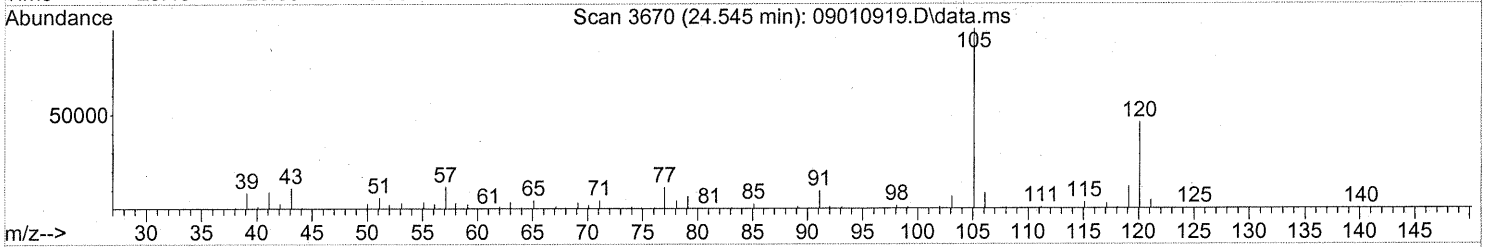
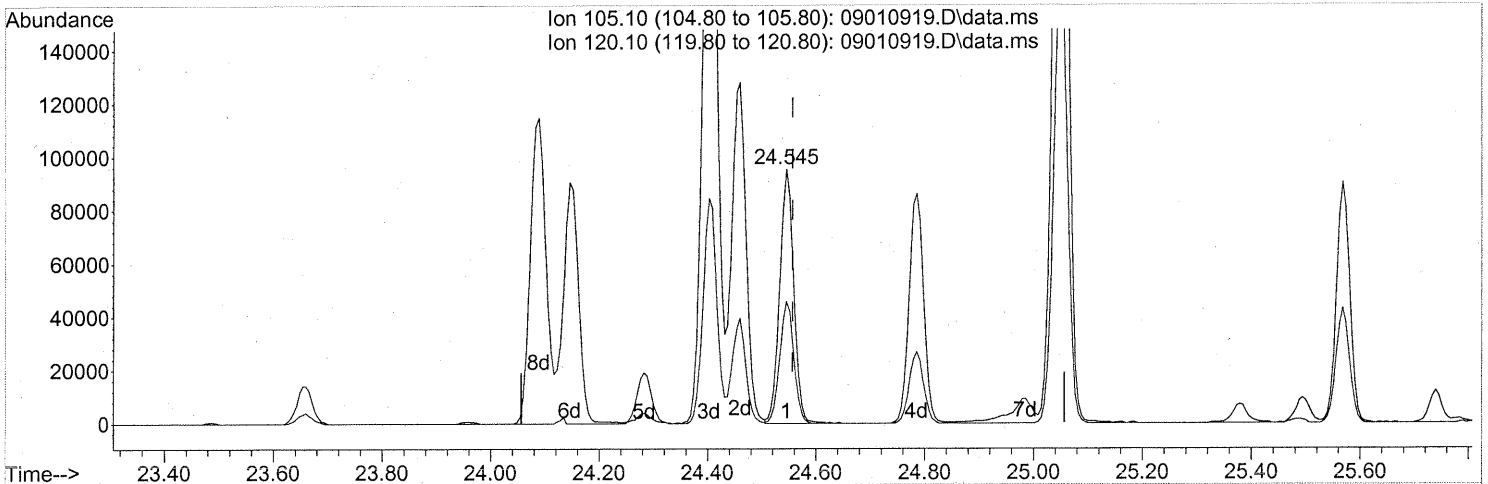
(78) 4-Ethyltoluene (T)
 24.460min (-0.011) 2.23ng
 response 233390

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	29.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

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

24.545min (-0.011) 1.96ng

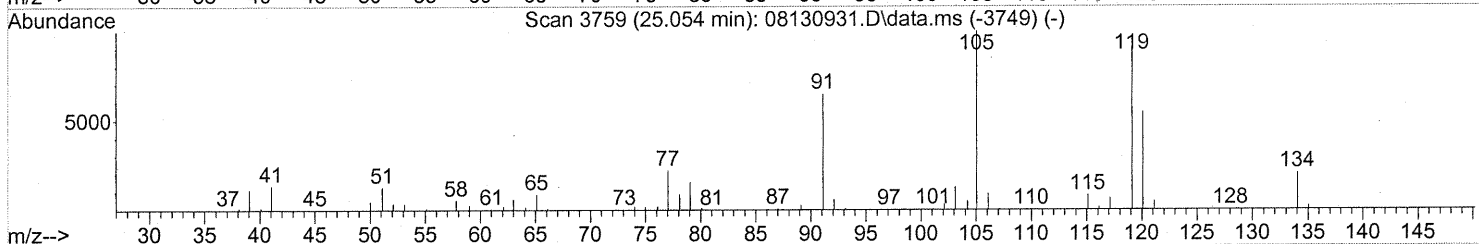
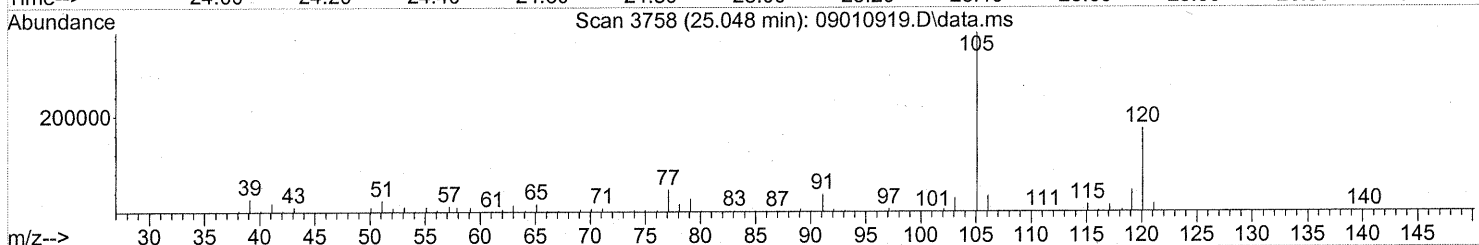
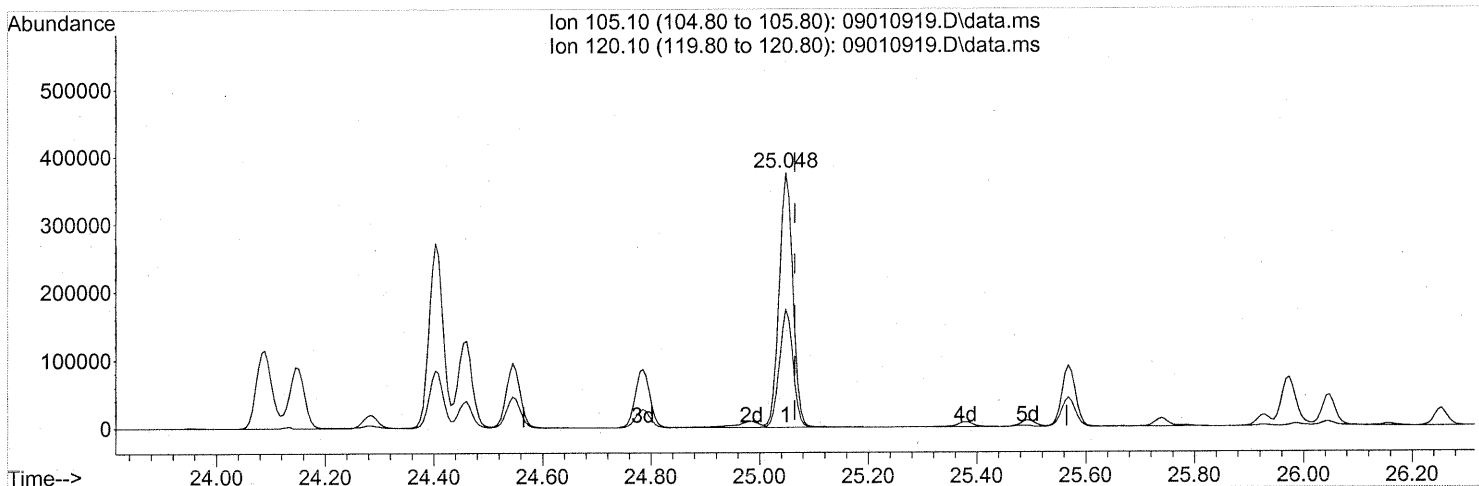
response 169897

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	48.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

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

25.048min (-0.017) 7.14ng

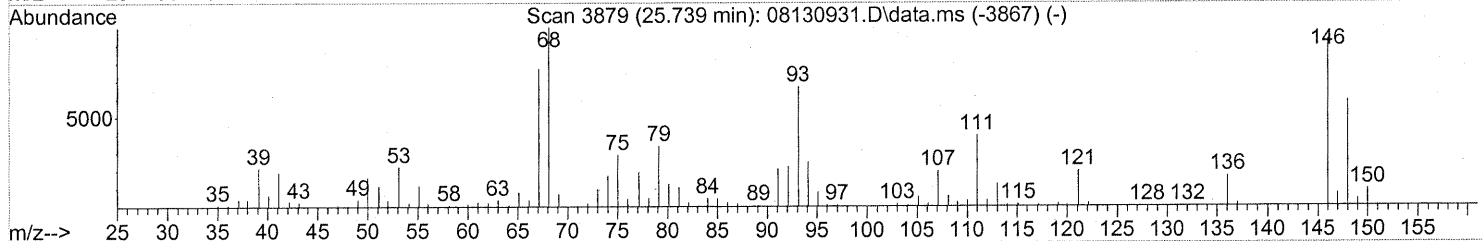
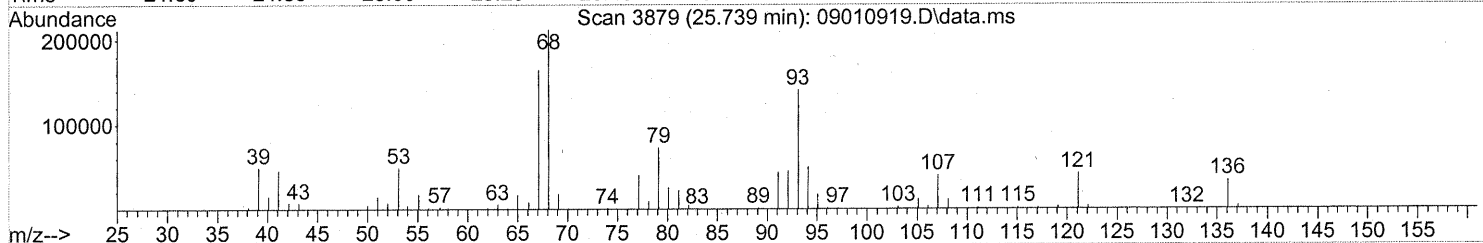
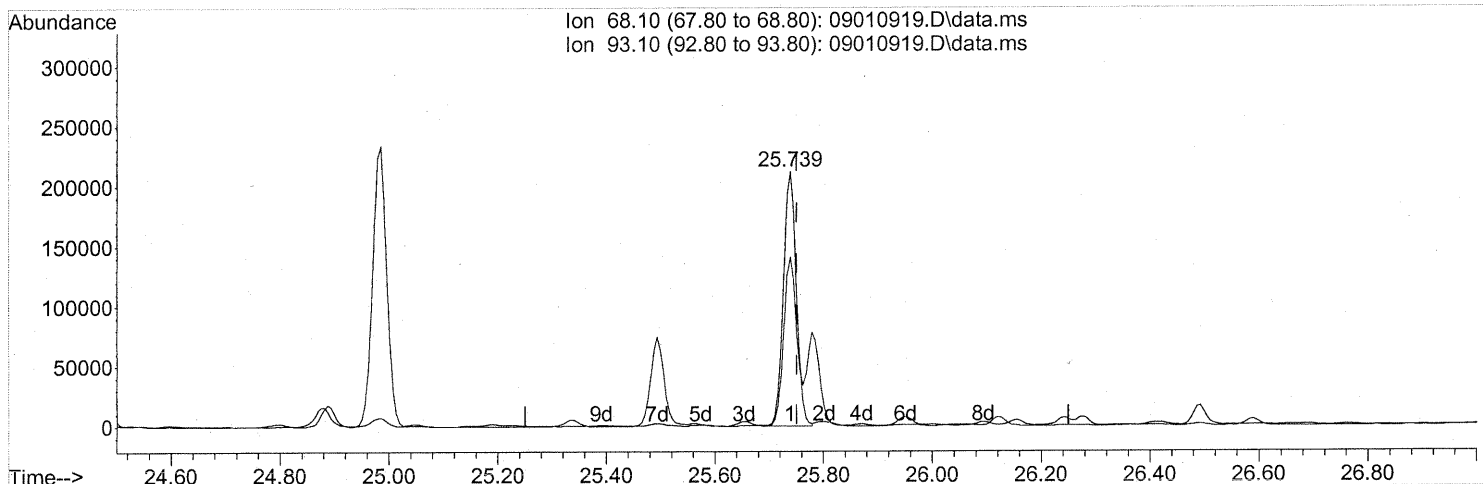
response 657462

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	45.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

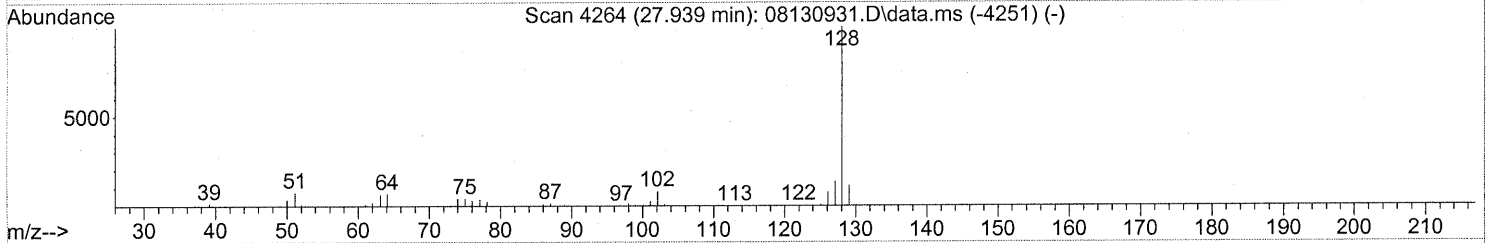
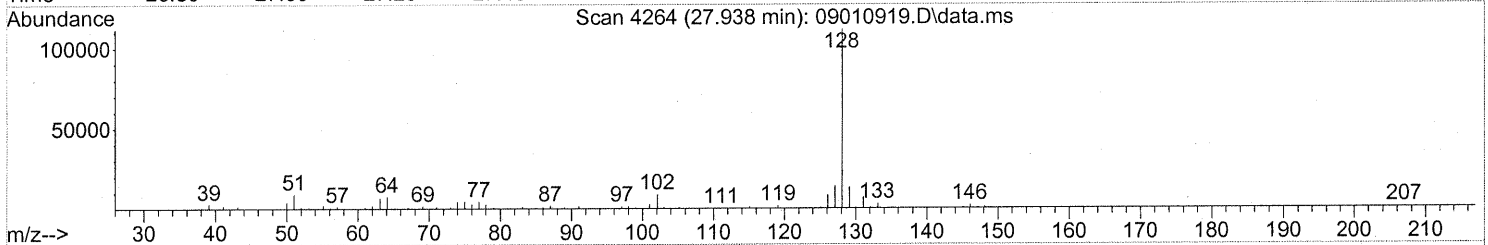
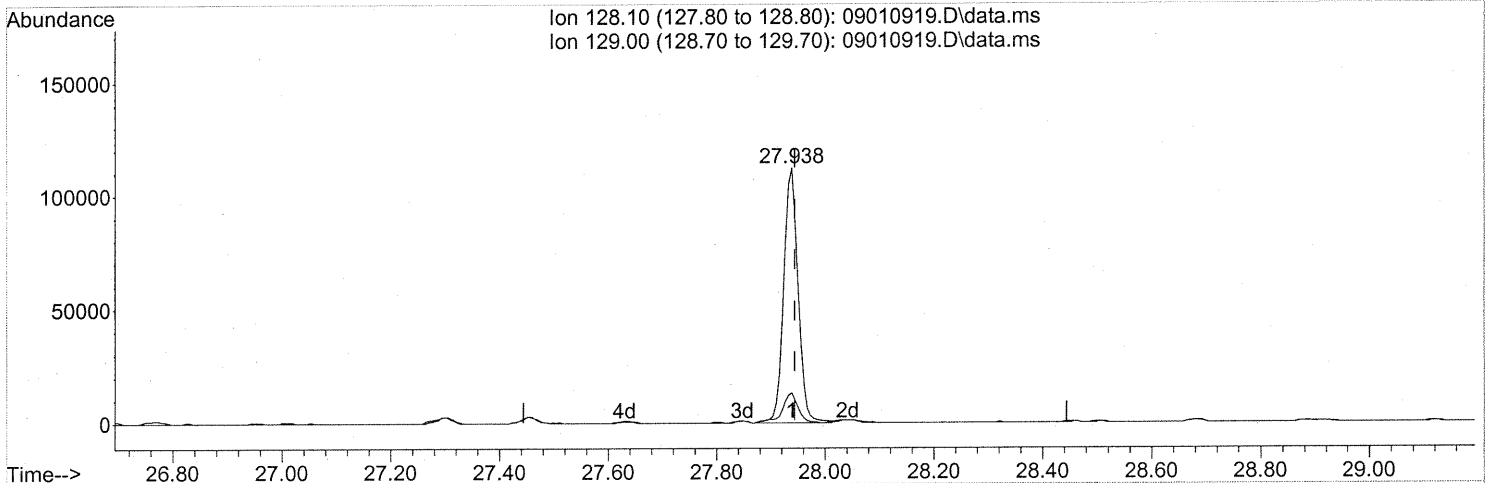
(91) d-Limonene (T)
 25.739min (-0.011) 9.29ng
 response 350090

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	68.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010919.D
 Acq On : 1 Sep 2009 21:55
 Operator : EM
 Sample : P0902975-001 (1000ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 02 07:51:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010919.D\data.ms

(95) Naphthalene (T)

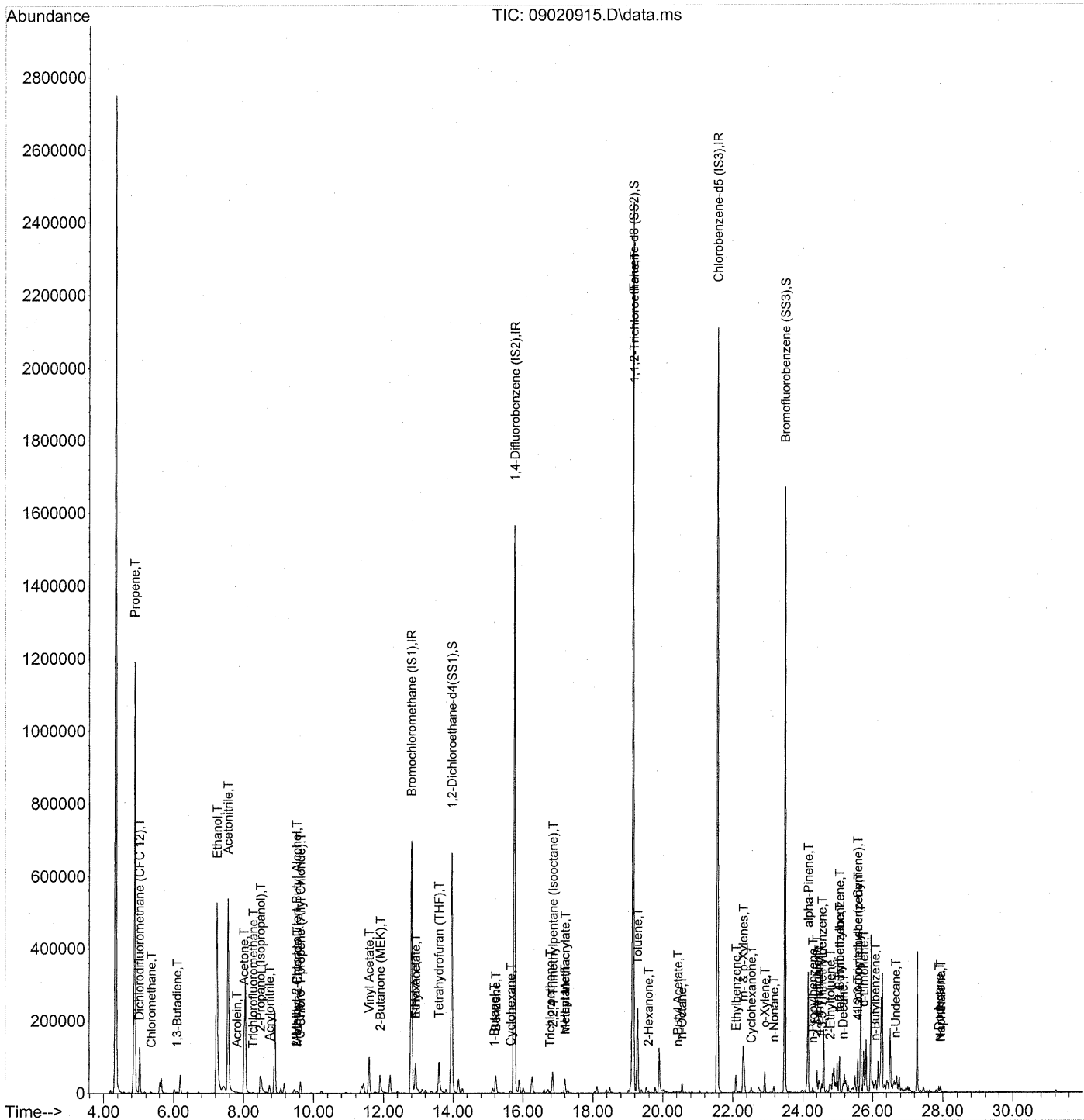
27.938min (-0.006) 1.67ng

response 206135

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	12.70
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020915.D
 Acq On : 2 Sep 2009 17:15
 Operator : EM
 Sample : P0902975-001 dil (100ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 04 15:15:05 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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_09\02\
 Data File : 09020915.D
 Acq On : 2 Sep 2009 17:15
 Operator : EM
 Sample : P0902975-001 dil (100ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 04 15:15:05 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	357679	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1813175	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	896339	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	665069	26.297	ng	-0.03 ✓
Spiked Amount	25.000		Recovery	=	105.20%	
57) Toluene-d8 (SS2)	19.14	98	2124442	24.931	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	99.72%	
73) Bromofluorobenzene (SS3)	23.48	174	571059	23.664	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	94.64%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.88	42	172050	5.484	ng	# 1
3) Dichlorodifluoromethan...	5.01	85	5635	0.126	ng	# 90
4) Chloromethane	5.36	50	3429	0.082	ng	89
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	6.10	54	1816	0.062	ng	# 85
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.24	45	1050348m	53.368	ng	
11) Acetonitrile	7.55	41	850457	17.706	ng	99
12) Acrolein	7.81	56	2981	0.232	ng	98
13) Acetone	8.01	58	95853	4.786	ng	# 34
14) Trichlorofluoromethane	8.28	101	2241	0.059	ng	96
15) 2-Propanol (Isopropanol)	8.48	45	127547	2.325	ng	97
16) Acrylonitrile	8.74	53	1961	0.067	ng	# 7
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.50	59	4384	0.079	ng	# 76
19) Methylene Chloride	9.53	84	4335	0.173	ng	85
20) 3-Chloro-1-propene (Al...	9.62	41	9027	0.269	ng	# 34
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.93	76	3238	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	11.59	86	3150	0.726	ng	# 1
27) 2-Butanone (MEK)	11.90	72	24911	1.784	ng	# 70
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.93	87	673	N.D.		
30) Ethyl Acetate	12.92	61	6073	0.671	ng	95
31) n-Hexane	12.92	57	37900	0.859	ng	93

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em 9/8/09

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020915.D
 Acq On : 2 Sep 2009 17:15
 Operator : EM
 Sample : P0902975-001 dil (100ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 04 15:15:05 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)	13.59	72	35219	2.426	ng #	73
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	15.18	56	5656	0.241	ng #	5
41) Benzene	15.22	78	61285	0.629	ng	97
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.65	84	3578	0.095	ng #	70
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.71	83	1206	N.D.		
47) Trichloroethene	16.78	130	1557	0.063	ng #	72
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	70026	0.624	ng	97
50) Methyl Methacrylate	17.20	100	3047	0.313	ng #	1
51) n-Heptane	17.20	71	11643	0.449	ng	91
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	19.15	97	169307	8.127	ng #	8
58) Toluene	19.27	91	222221	2.151	ng	100
59) 2-Hexanone	19.59	43	4106	0.076	ng #	22
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.43	43	8549	0.146	ng	87
63) n-Octane	20.55	57	5452	0.237	ng	86
64) Tetrachloroethene	20.75	166	1120	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	49219	0.441	ng	97
67) m- & p-Xylenes	22.30	91	131642	1.489	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.78	104	3044	N.D.		
70) o-Xylene	22.92	91	45769	0.515	ng	97
71) n-Nonane	23.17	43	8801	0.164	ng	84
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.67	105	2279	N.D.		
75) alpha-Pinene	24.15	93	152245	2.676	ng	78
76) n-Propylbenzene	24.28	91	15248	0.107	ng	97
77) 3-Ethyltoluene	24.40	105	44485	0.412	ng	97
78) 4-Ethyltoluene	24.46	105	21488	0.198	ng	97
79) 1,3,5-Trimethylbenzene	24.55	105	15862	0.177	ng	95

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Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020915.D
 Acq On : 2 Sep 2009 17:15
 Operator : EM
 Sample : P0902975-001 dil (100ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 04 15:15:05 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

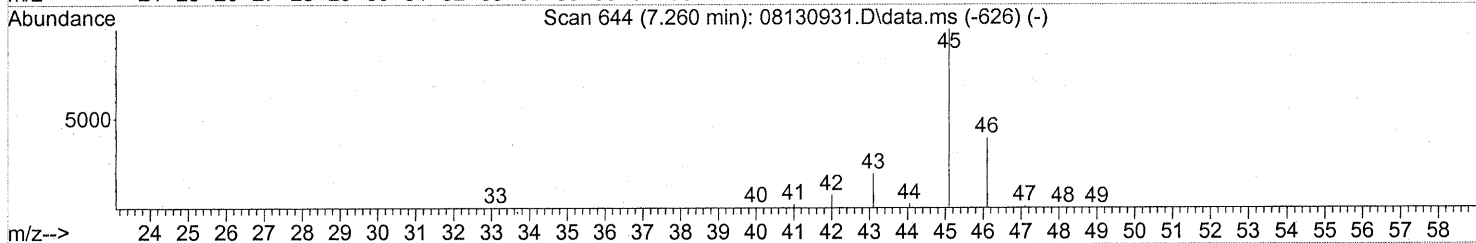
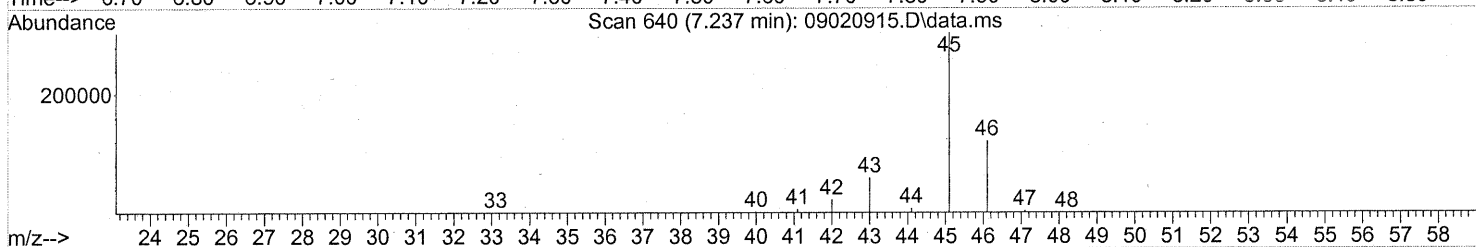
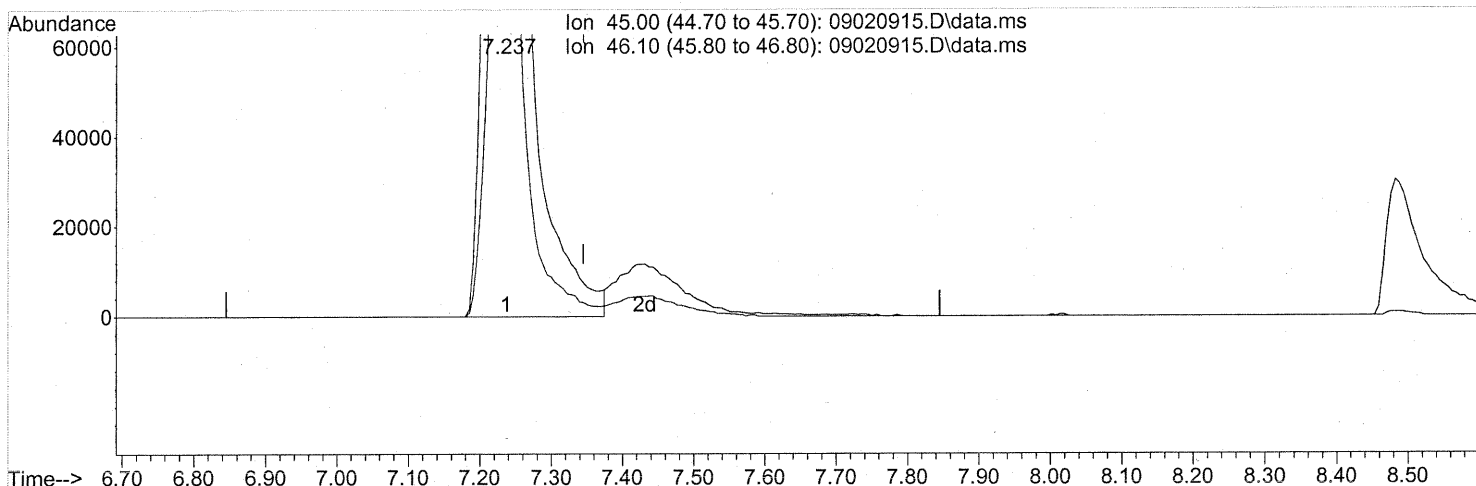
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	25.05	118	523	N.D.		
81) 2-Ethyltoluene	24.79	105	14784	0.133	ng	93
82) 1,2,4-Trimethylbenzene	25.05	105	59192	0.621	ng	88
83) n-Decane	25.15	57	11122	0.200	ng	# 55
84) Benzyl Chloride	25.33	91	1038	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.39	105	1047	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	11978	0.099	ng	96
89) 1,2,3-Trimethylbenzene	25.57	105	14123	0.147	ng	93
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	25.74	68	32091	0.823	ng	93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	4607	0.080	ng	# 34
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	17595	0.138	ng	98
96) n-Dodecane	27.89	57	6196	0.097	ng	90
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.53	55	4375	0.134	ng	91
99) tert-Butylbenzene	25.05	119	7302	0.077	ng	# 54
100) n-Butylbenzene	26.06	91	5530	0.055	ng	# 60

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020915.D
 Acq On : 2 Sep 2009 17:15
 Operator : EM
 Sample : P0902975-001 dil (100ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 03 07:32:38 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09020915.D\data.ms

(10) Ethanol (T)

7.237min (-0.109) 49.42ng

response 972620

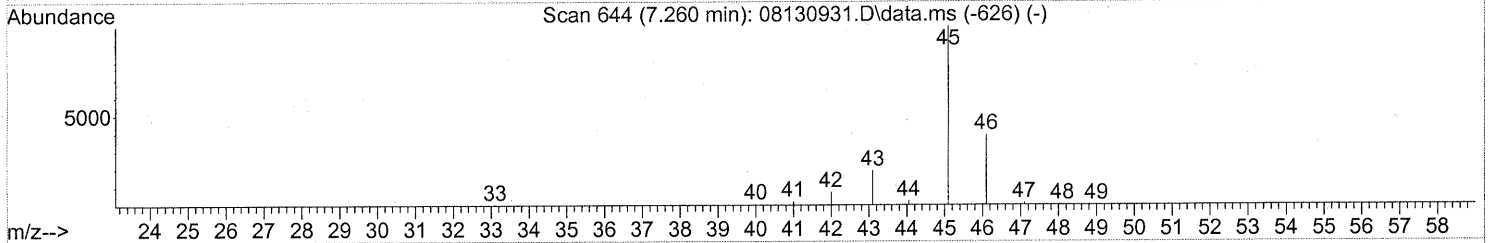
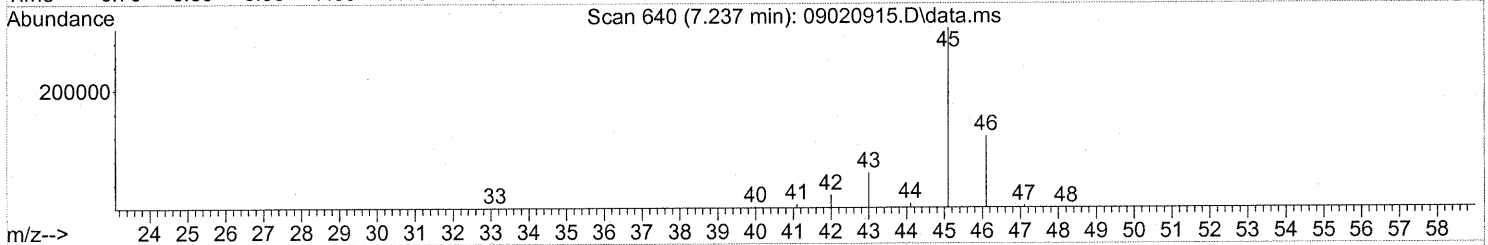
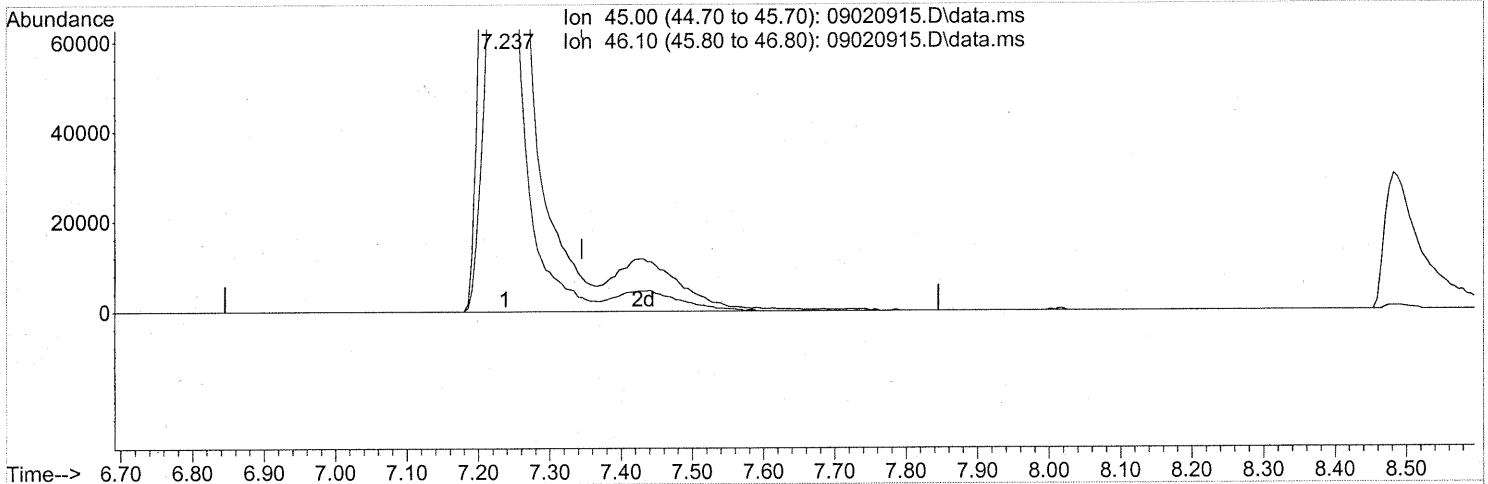
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.48
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020915.D
 Acq On : 2 Sep 2009 17:15
 Operator : EM
 Sample : P0902975-001 dil (100ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 03 07:32:38 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)
 7.237min (-0.109) 53.37ng m
 response 1050348

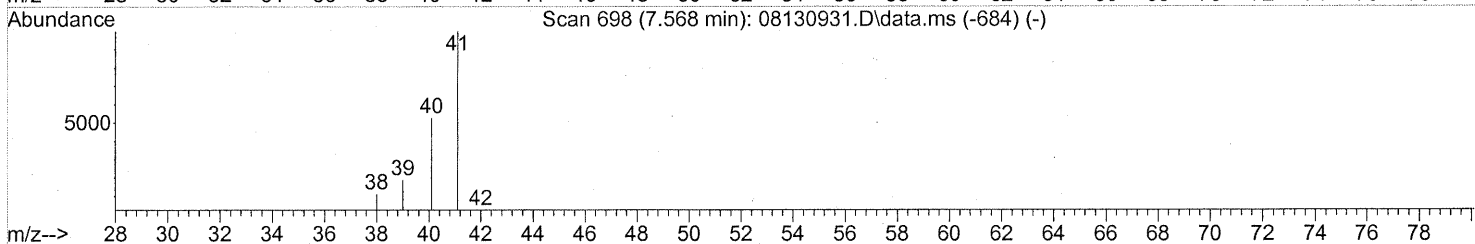
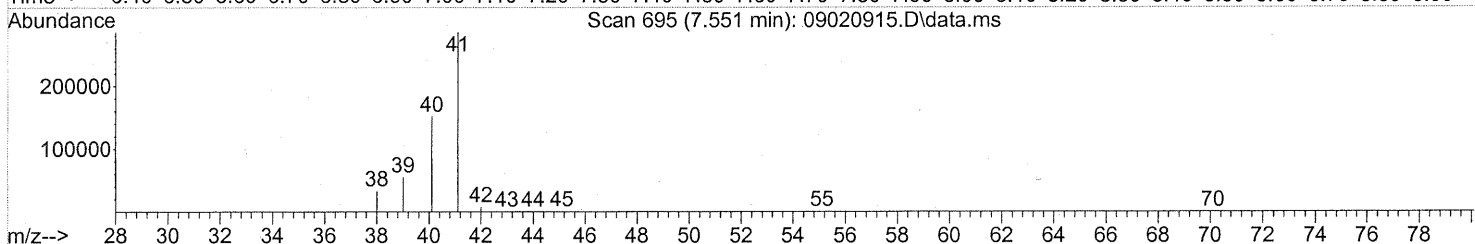
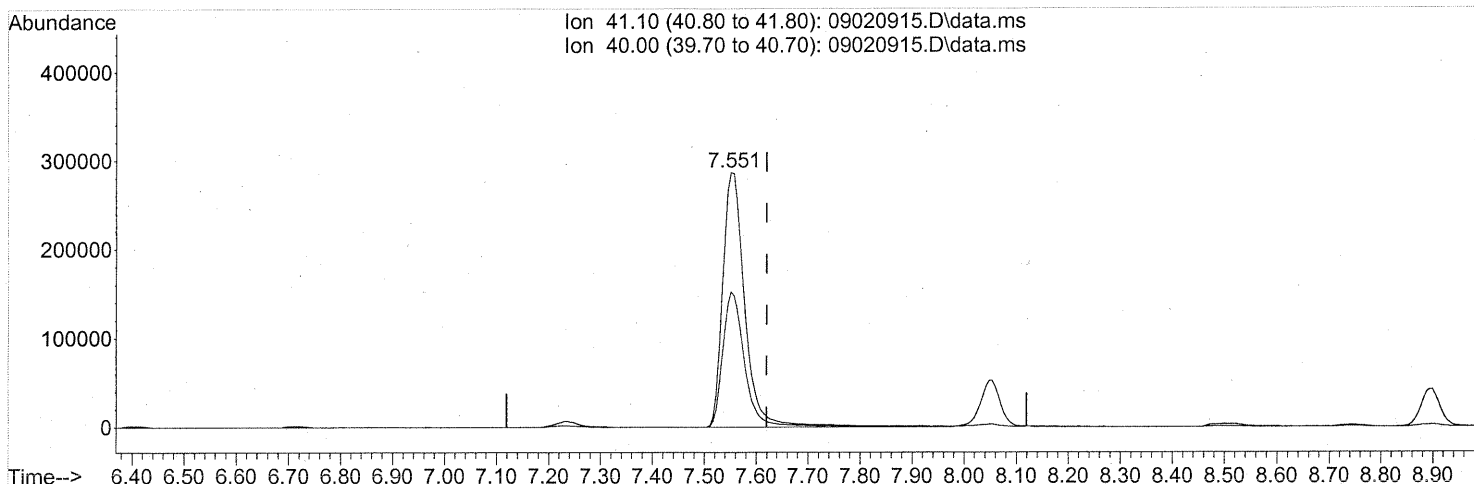
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.56
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
Em 9/8/09
KR 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020915.D
 Acq On : 2 Sep 2009 17:15
 Operator : EM
 Sample : P0902975-001 dil (100ml)
 Misc : Environmental H & E 103993
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 04 15:15:05 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09020915.D\data.ms

(11) Acetonitrile (T)

7.551min (-0.069) 17.71ng

response 850457

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.63
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: 103994

Client Project ID: 16512

CAS Project ID: P0902975

CAS Sample ID: P0902975-002

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: AC01482

Date Collected: 8/25/09

Date Received: 8/26/09

Date Analyzed: 9/1/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.0 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	36	0.86	21	0.50	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.86	0.43	0.17	
74-87-3	Chloromethane	0.68	0.17	0.33	0.083	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.86	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.17	ND	0.067	
106-99-0	1,3-Butadiene	1.9	0.17	0.86	0.077	
74-83-9	Bromomethane	ND	0.17	ND	0.044	
75-00-3	Chloroethane	ND	0.17	ND	0.065	
64-17-5	Ethanol	700	8.6	370	4.5	
75-05-8	Acetonitrile	290	0.86	170	0.51	E
107-02-8	Acrolein	6.3	0.86	2.7	0.37	
67-64-1	Acetone	89	8.6	38	3.6	
75-69-4	Trichlorofluoromethane	1.1	0.17	0.20	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	19	0.86	7.7	0.35	
107-13-1	Acrylonitrile	ND	0.86	ND	0.39	
75-35-4	1,1-Dichloroethene	ND	0.17	ND	0.043	
75-09-2	Methylene Chloride	3.0	0.86	0.86	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	ND	0.055	
76-13-1	Trichlorotrifluoroethane	0.49	0.17	0.064	0.022	
75-15-0	Carbon Disulfide	ND	0.86	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	8.6	ND	2.4	
78-93-3	2-Butanone (MEK)	38	0.86	13	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.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: _____

9/1/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 103994
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: AC01482

CAS Project ID: P0902975
CAS Sample ID: P0902975-002

Date Collected: 8/25/09
Date Received: 8/26/09
Date Analyzed: 9/1/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.0 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.71

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	22	1.7	6.1	0.47	
110-54-3	n-Hexane	19	0.86	5.3	0.24	
67-66-3	Chloroform	0.42	0.17	0.087	0.035	
109-99-9	Tetrahydrofuran (THF)	49	0.86	16	0.29	
107-06-2	1,2-Dichloroethane	0.30	0.17	0.073	0.042	
71-55-6	1,1,1-Trichloroethane	ND	0.17	ND	0.031	
71-43-2	Benzene	14	0.17	4.4	0.054	
56-23-5	Carbon Tetrachloride	0.46	0.17	0.073	0.027	
110-82-7	Cyclohexane	2.2	0.86	0.63	0.25	
78-87-5	1,2-Dichloropropane	ND	0.17	ND	0.037	
75-27-4	Bromodichloromethane	ND	0.17	ND	0.026	
79-01-6	Trichloroethene	0.97	0.17	0.18	0.032	
123-91-1	1,4-Dioxane	ND	0.86	ND	0.24	
80-62-6	Methyl Methacrylate	ND	1.7	ND	0.42	
142-82-5	n-Heptane	10	0.86	2.5	0.21	
10061-01-5	cis-1,3-Dichloropropene	ND	0.86	ND	0.19	
108-10-1	4-Methyl-2-pentanone	1.2	0.86	0.30	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	0.86	ND	0.19	
79-00-5	1,1,2-Trichloroethane	ND	0.17	ND	0.031	
108-88-3	Toluene	47	0.86	13	0.23	
591-78-6	2-Hexanone	2.0	0.86	0.50	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	2.8	0.86	0.59	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: 103994
Client Project ID: 16512

CAS Project ID: P0902975
 CAS Sample ID: P0902975-002

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: AC01482

Date Collected: 8/25/09
Date Received: 8/26/09
Date Analyzed: 9/1/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.0 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	5.5	0.86	1.2	0.18	
127-18-4	Tetrachloroethene	1.8	0.17	0.26	0.025	
108-90-7	Chlorobenzene	ND	0.17	ND	0.037	
100-41-4	Ethylbenzene	9.9	0.86	2.3	0.20	
179601-23-1	m,p-Xylenes	33	0.86	7.7	0.20	
75-25-2	Bromoform	ND	0.86	ND	0.083	
100-42-5	Styrene	1.3	0.86	0.30	0.20	
95-47-6	o-Xylene	11	0.86	2.6	0.20	
111-84-2	n-Nonane	3.1	0.86	0.60	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	ND	0.025	
98-82-8	Cumene	ND	0.86	ND	0.17	
80-56-8	alpha-Pinene	50	0.86	8.9	0.15	
103-65-1	n-Propylbenzene	2.3	0.86	0.48	0.17	
622-96-8	4-Ethyltoluene	4.4	0.86	0.89	0.17	
108-67-8	1,3,5-Trimethylbenzene	3.9	0.86	0.78	0.17	
95-63-6	1,2,4-Trimethylbenzene	14	0.86	2.8	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	12	0.86	2.2	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.86	ND	0.088	
120-82-1	1,2,4-Trichlorobenzene	ND	0.86	ND	0.12	
91-20-3	Naphthalene	2.6	0.86	0.50	0.16	
87-68-3	Hexachlorobutadiene	ND	0.86	ND	0.080	

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: _____

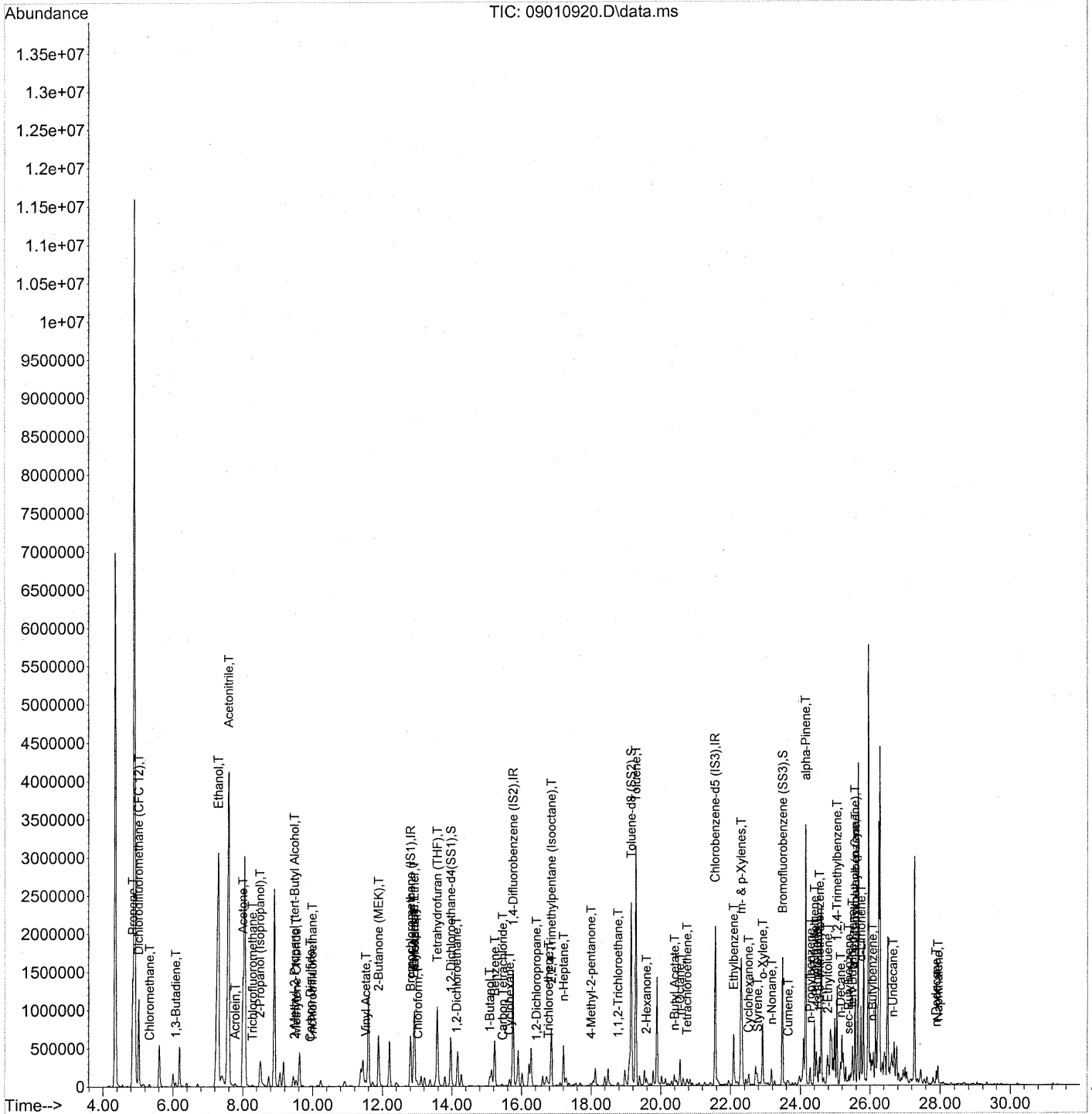
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9/10/09

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Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:46:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
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 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	349636	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1782077	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	875488	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	635999	25.726	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	102.92%	
57) Toluene-d8 (SS2)	19.15	98	2072135	24.897	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	99.60%	
73) Bromofluorobenzene (SS3)	23.49	174	586999	24.904	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	99.60%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	644308	21.008	ng	91
3) Dichlorodifluoromethan...	5.01	85	54947	1.255	ng	99
4) Chloromethane	5.33	50	16112	0.395	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	990	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.08	54	31808	1.113	ng	94
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.31	45	7819875m	406.463	ng	
11) Acetonitrile	7.60	41	7960531	169.548	ng	E 99
12) Acrolein	7.79	56	46120	3.676	ng	95
13) Acetone	8.00	58	1022627	52.235	ng	# 32
14) Trichlorofluoromethane	8.28	101	25046	0.669	ng	100
15) 2-Propanol (Isopropanol)	8.49	45	593807	11.075	ng	93
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	21065	0.387	ng	# 73
19) Methylene Chloride	9.53	84	42549	1.742	ng	87
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.98	151	4778	0.285	ng	94
22) Carbon Disulfide	9.93	76	14443	0.168	ng	94
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.39	63	1730	N.D.		
25) Methyl tert-Butyl Ether	11.42	73	2137	N.D.		
26) Vinyl Acetate	11.52	86	17339m	4.089	ng	
27) 2-Butanone (MEK)	11.89	72	300149	21.991	ng	# 82
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.92	87	14441	0.745	ng	# 1
30) Ethyl Acetate	12.90	61	114107	12.892	ng	97
31) n-Hexane	12.93	57	473311	10.970	ng	94

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Em 9/8/09

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:46:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	8930	0.247 ng		86
34) Tetrahydrofuran (THF)	13.58	72	403276	28.420 ng	#	77
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	4776	0.173 ng		84
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	15.09	61	698	N.D.		
40) 1-Butanol	15.09	56	132309	5.729 ng		98
41) Benzene	15.23	78	780602	8.145 ng		99
42) Carbon Tetrachloride	15.46	117	7161	0.267 ng		99
43) Cyclohexane	15.66	84	47137	1.270 ng		86
44) tert-Amyl Methyl Ether	16.11	73	1276	N.D.		
45) 1,2-Dichloropropane	16.43	63	2315	0.098 ng		95
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.77	130	13746	0.565 ng		99
48) 1,4-Dioxane	16.75	88	736	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	891375	8.081 ng		100
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	17.21	71	152742	5.987 ng		93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.00	58	14643	0.707 ng		85
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.77	97	1809	0.088 ng		81
58) Toluene	19.28	91	2802474	27.777 ng		100
59) 2-Hexanone	19.59	43	62313	1.188 ng	#	51
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	93997	1.643 ng		80
63) n-Octane	20.55	57	72544	3.226 ng		87
64) Tetrachloroethene	20.75	166	25702	1.027 ng		97
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	22.09	91	629658	5.780 ng		98
67) m- & p-Xylenes	22.30	91	1679525	19.449 ng		99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.77	104	48191	0.755 ng		99
70) o-Xylene	22.92	91	583306	6.714 ng		98
71) n-Nonane	23.17	43	96082	1.837 ng		88
72) 1,1,2,2-Tetrachloroethane	22.91	83	796	N.D.		
74) Cumene	23.65	105	32893	0.292 ng		97
75) alpha-Pinene	24.15	93	1611295	28.993 ng		100
76) n-Propylbenzene	24.28	91	190694	1.370 ng		96
77) 3-Ethyltoluene	24.40	105	568376	5.386 ng		99
78) 4-Ethyltoluene	24.46	105	270085	2.546 ng		99
79) 1,3,5-Trimethylbenzene	24.55	105	197505	2.252 ng		99

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Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:46:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

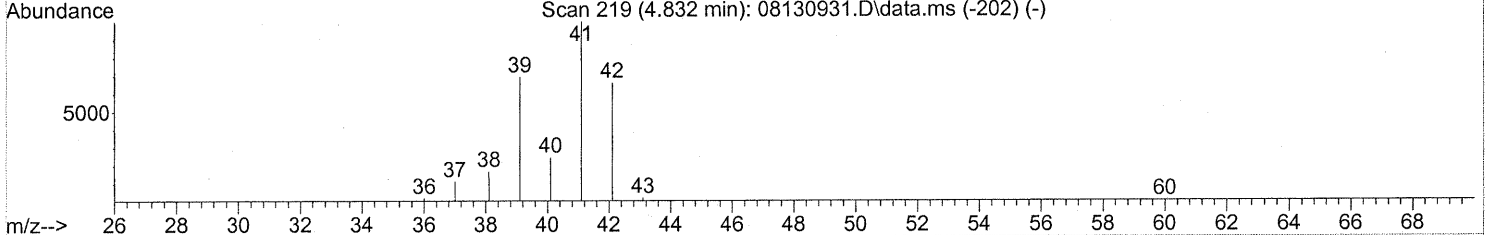
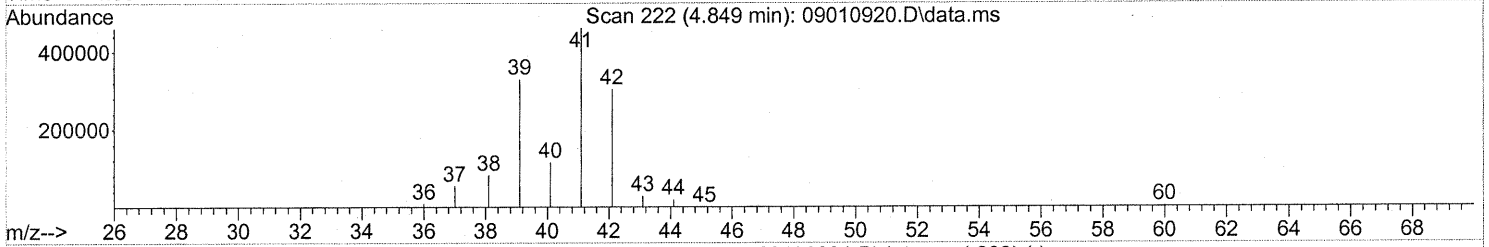
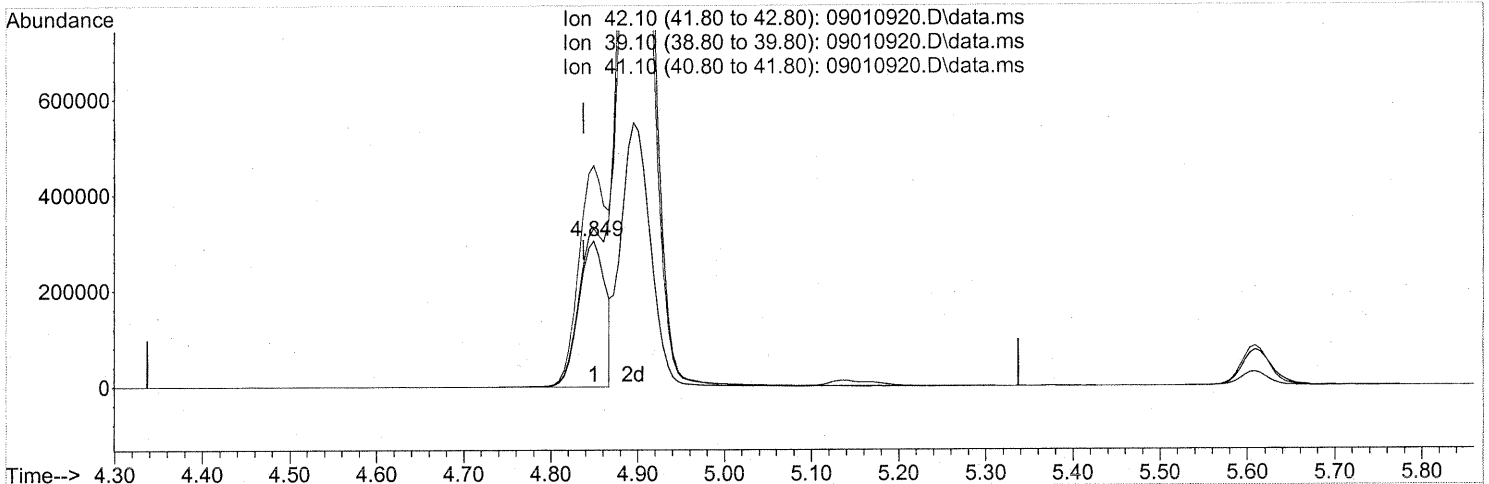
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	1292	N.D.		
81) 2-Ethyltoluene	24.79	105	189890	1.743 ng		98
82) 1,2,4-Trimethylbenzene	25.05	105	745242	8.002 ng		89
83) n-Decane	25.15	57	108338	1.998 ng	#	57
84) Benzyl Chloride	25.24	91	735	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	1360	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	1360	N.D.		
87) sec-Butylbenzene	25.38	105	14103	0.115 ng		93
88) 4-Isopropyltoluene (p-...	25.56	119	132893	1.130 ng		94
89) 1,2,3-Trimethylbenzene	25.57	105	173272	1.841 ng		96
90) 1,2-Dichlorobenzene	25.33	146	1360	N.D.		
91) d-Limonene	25.74	68	271548	7.126 ng		96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	33679	0.601 ng	#	43
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	192267	1.539 ng		97
96) n-Dodecane	27.89	57	53112	0.847 ng		97
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	36710	1.155 ng	#	85
99) tert-Butylbenzene	25.49	119	24008	0.260 ng		97
100) n-Butylbenzene	26.06	91	67162	0.688 ng	#	66

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(2) Propene (T)

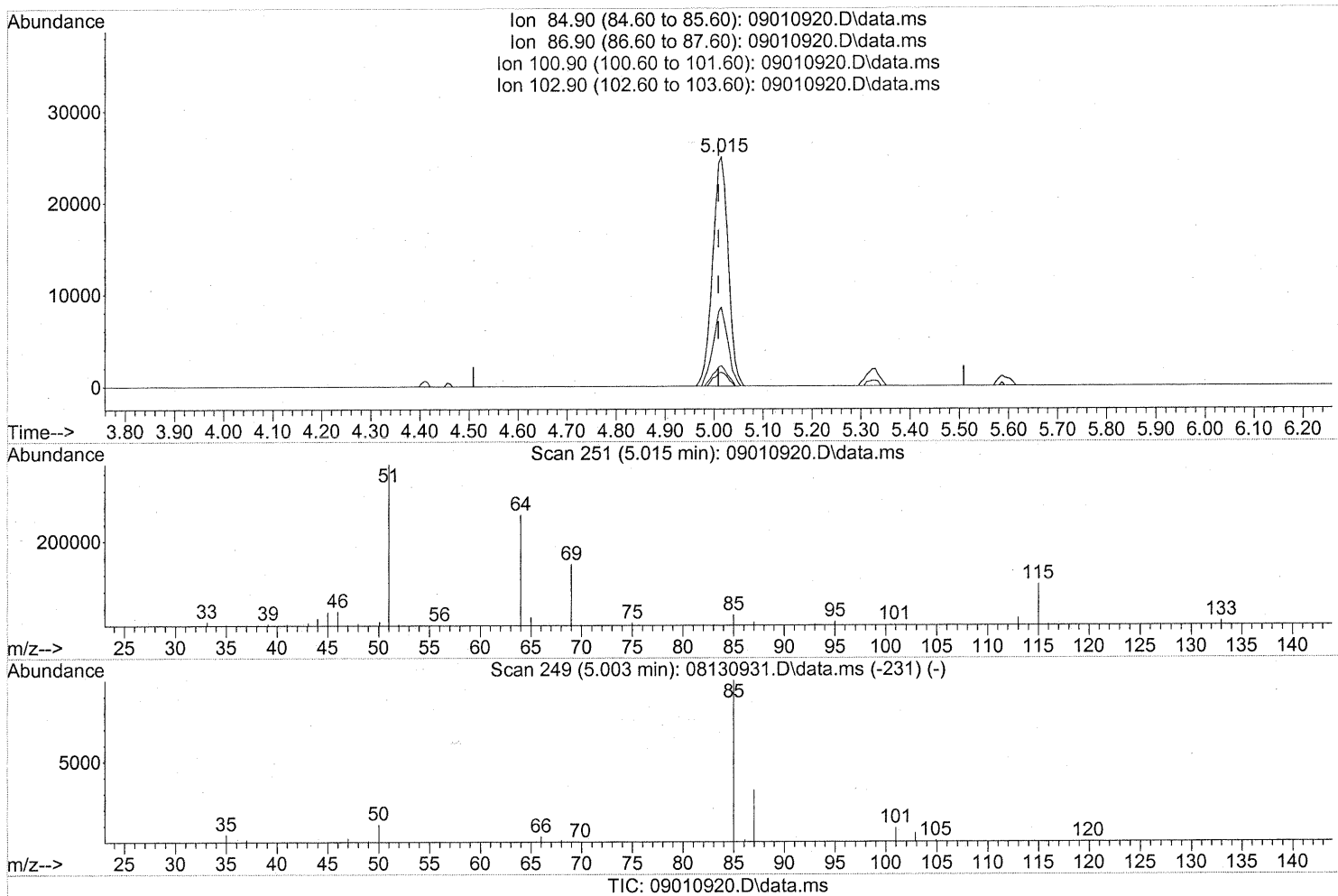
4.849min (+0.012) 21.01ng
 response 644308

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	101.56
41.10	152.70	159.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

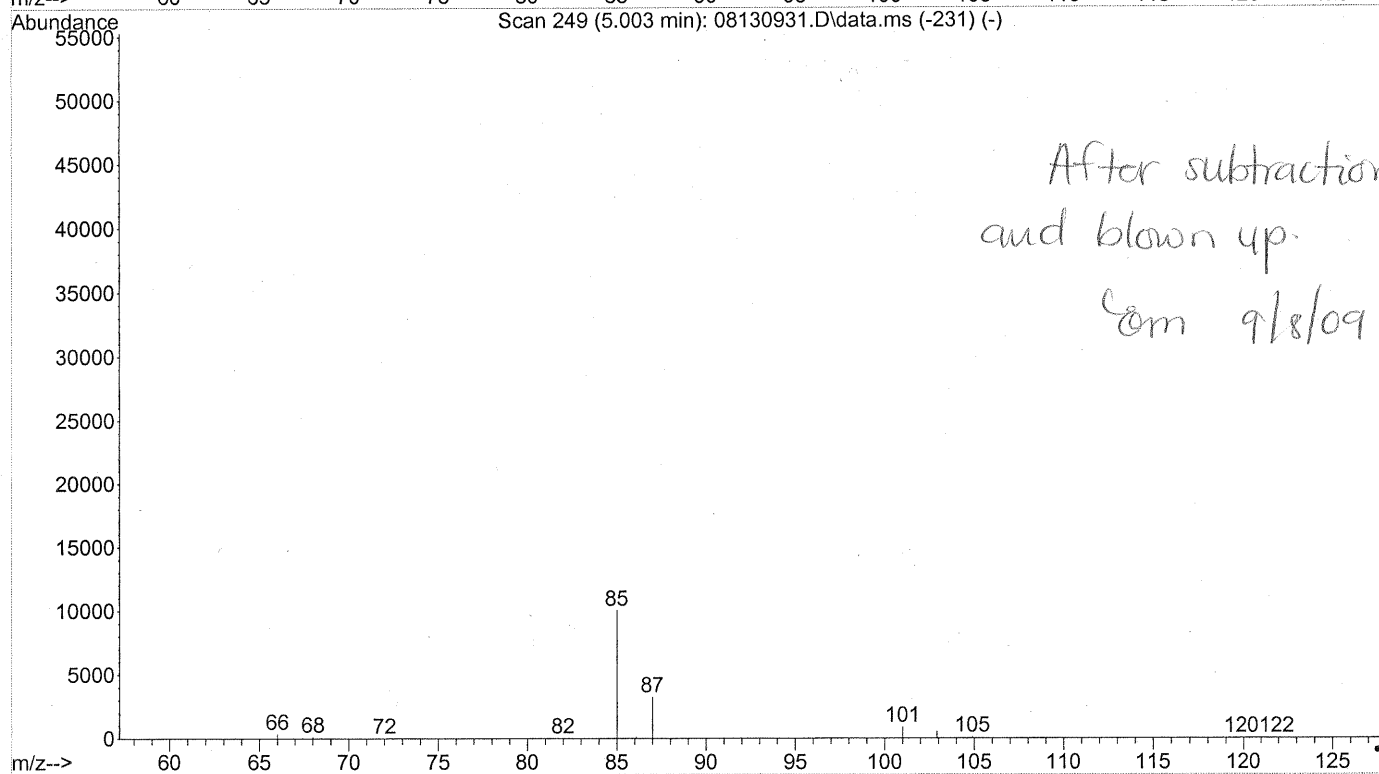
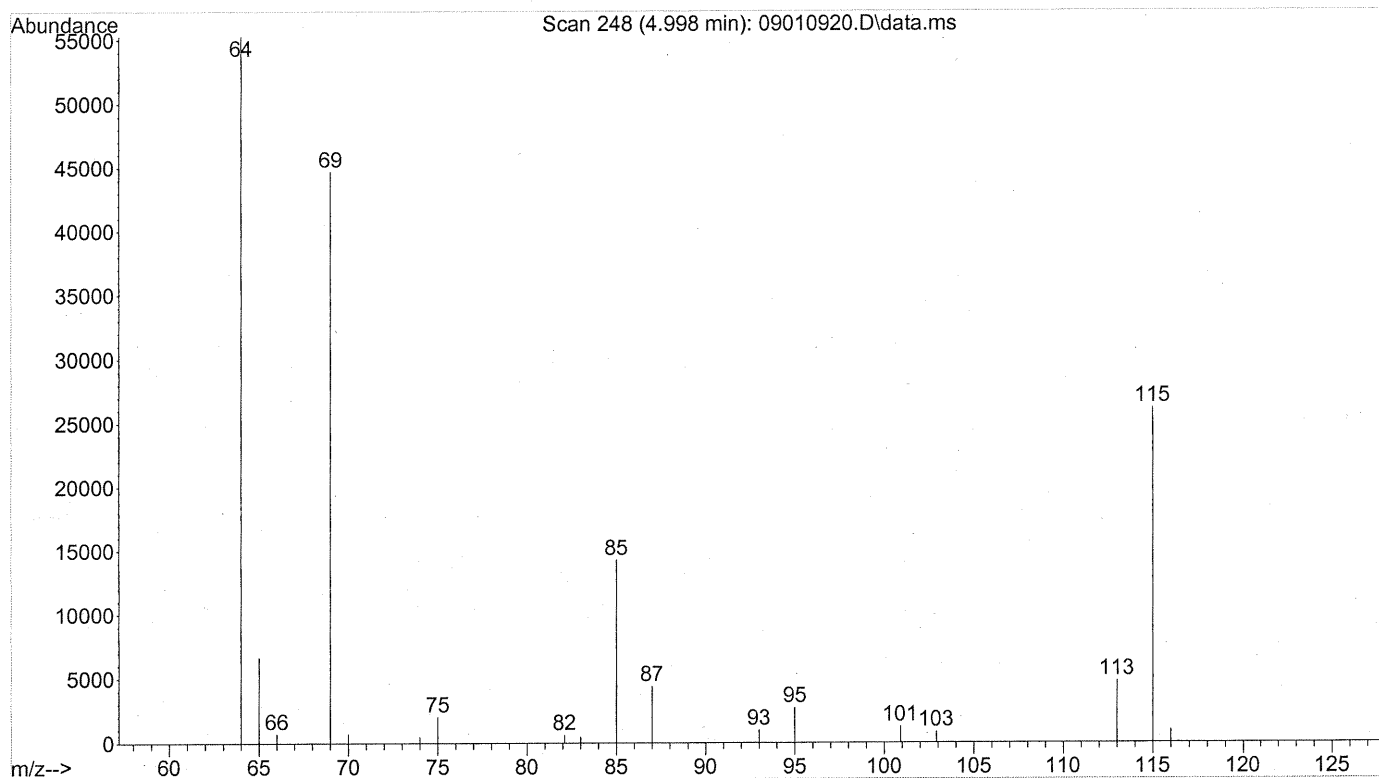
5.015min (+0.006) 1.26ng

response 54947

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.05
100.90	9.10	7.96
102.90	5.50	5.18

*Before subtraction
and blown up.*

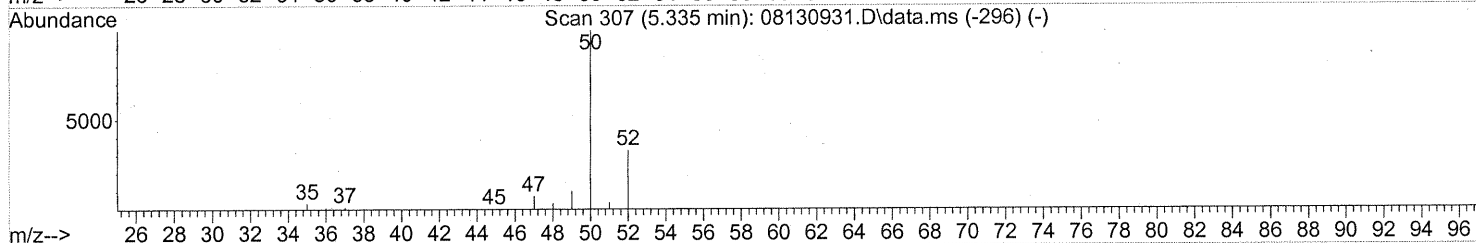
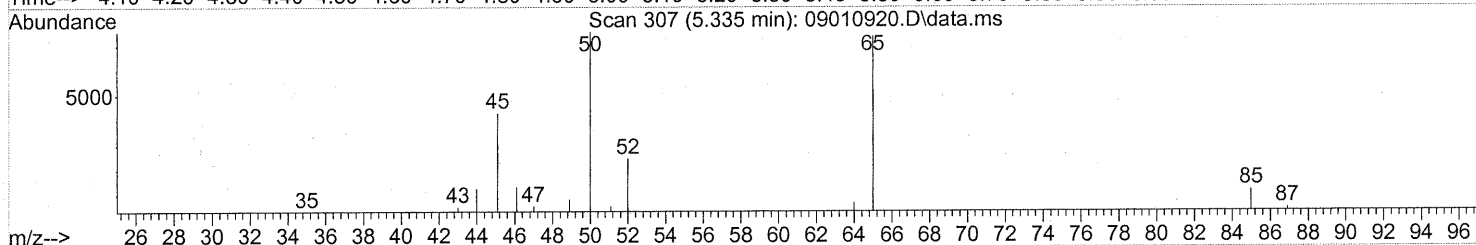
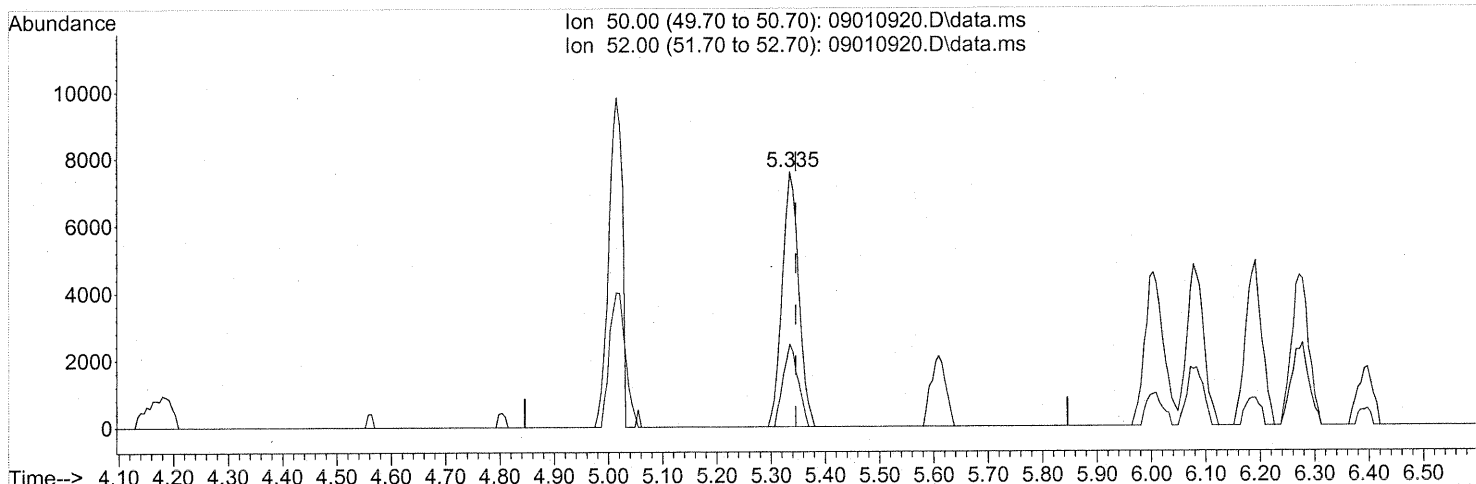
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Operator : EM
Acquired : 1 Sep 2009 22:37 using AcqMethod TO15LOW.M
Instrument : MS09
Sample Name: P0902975-002 (1000ml)
Misc Info : Environmental H & E 103994
Vial Number: 10



Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(4) Chloromethane (T)
 5.335min (-0.011) 0.39ng
 response 16112

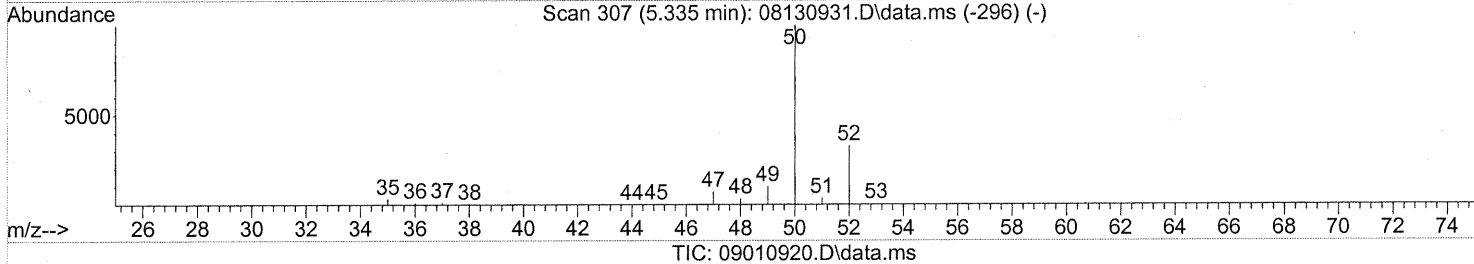
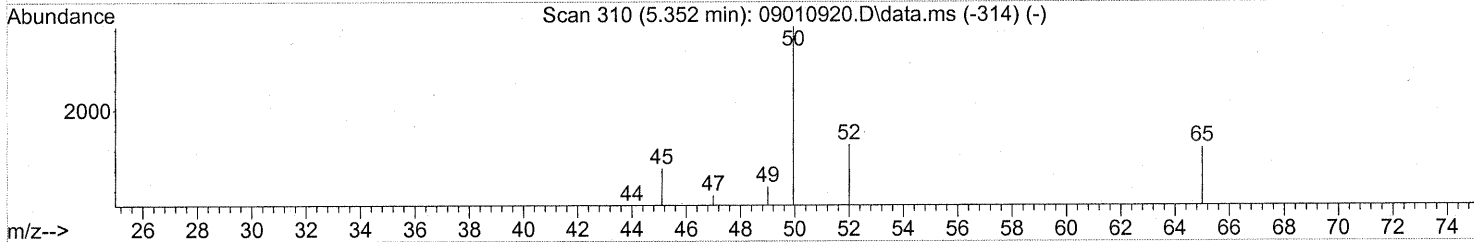
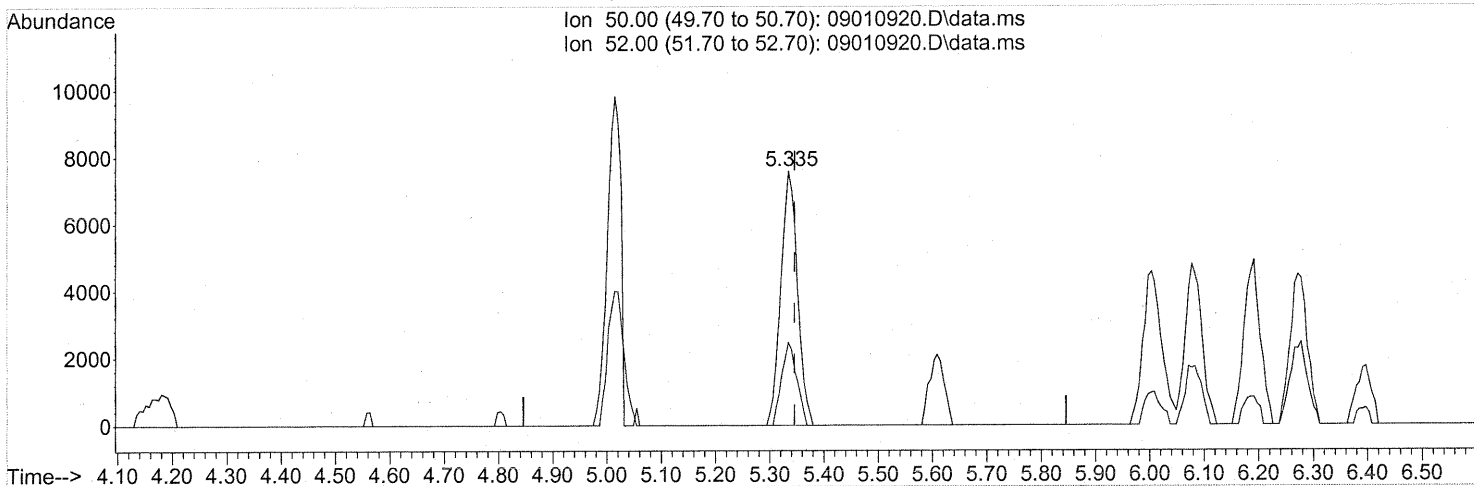
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	29.38
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(4) Chloromethane (T)
 5.335min (-0.011) 0.39ng
 response 16112

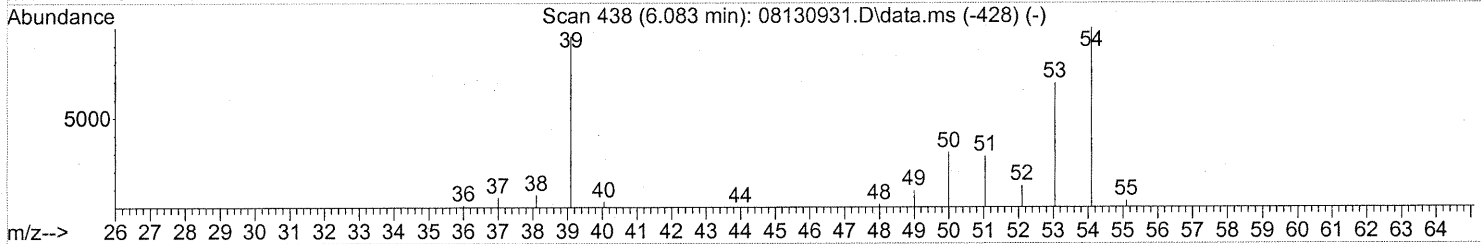
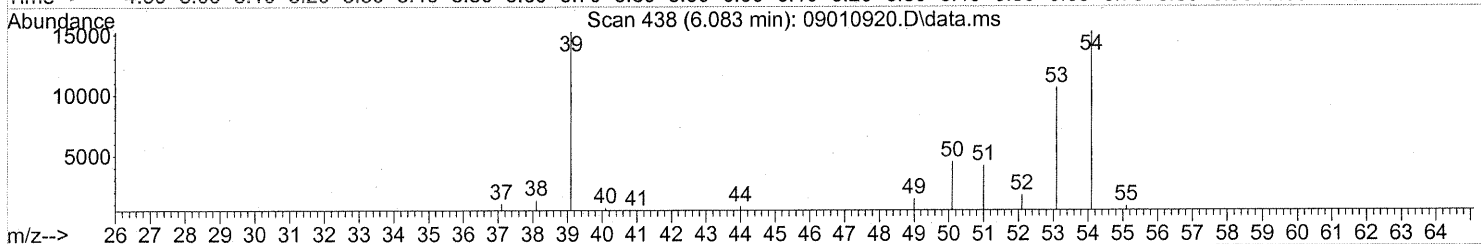
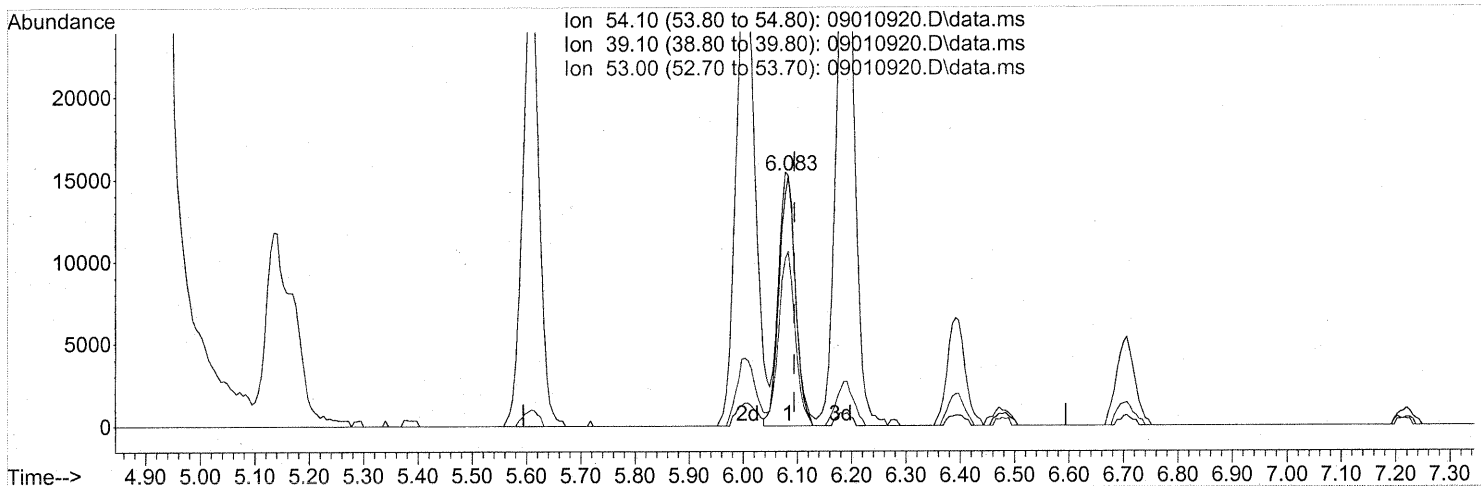
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	29.38
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 Em 9/8/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(7) 1,3-Butadiene (T)

6.083min (-0.011) 1.11ng

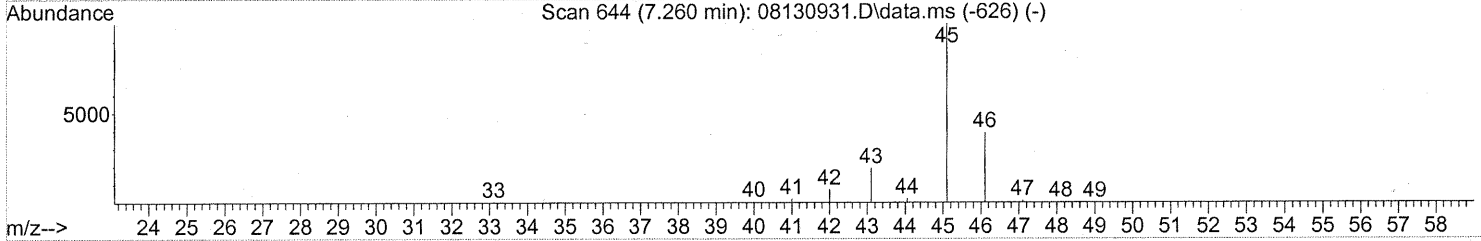
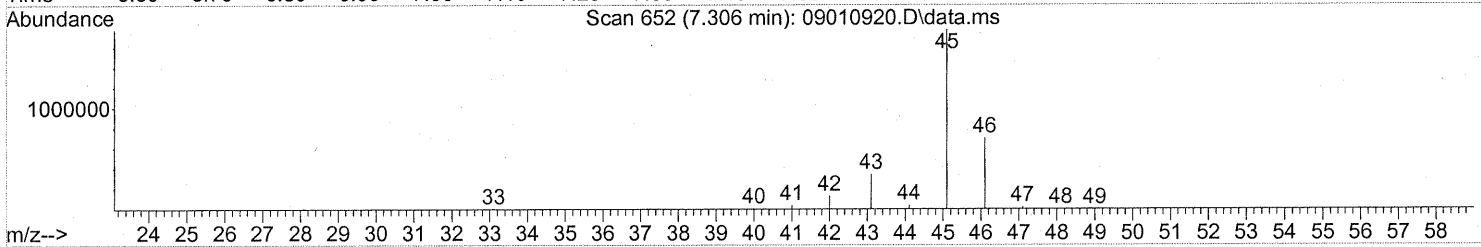
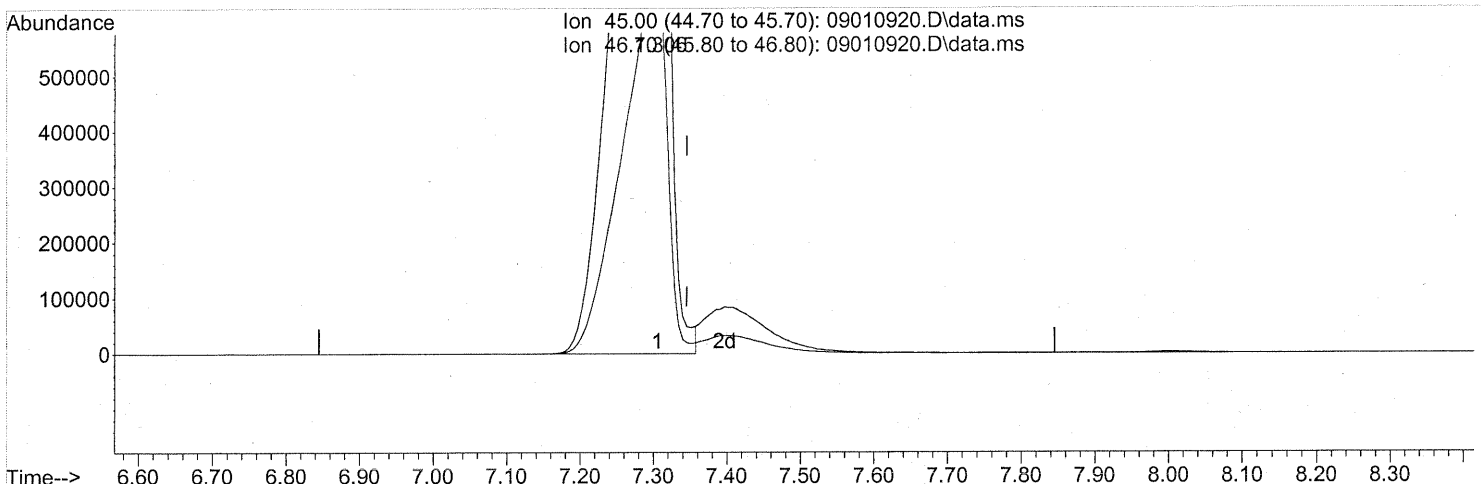
response 31808

Ion	Exp%	Act%
54.10	100	100
39.10	96.60	107.07
53.00	69.80	69.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)
 7.306min (-0.040) 380.54ng
 response 7321094

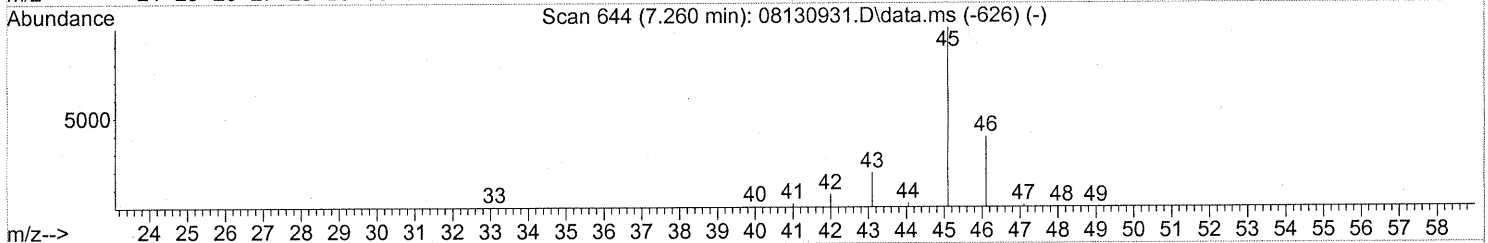
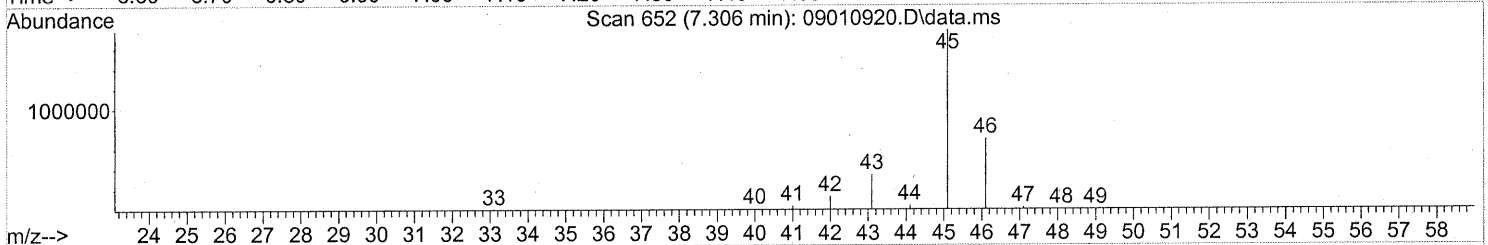
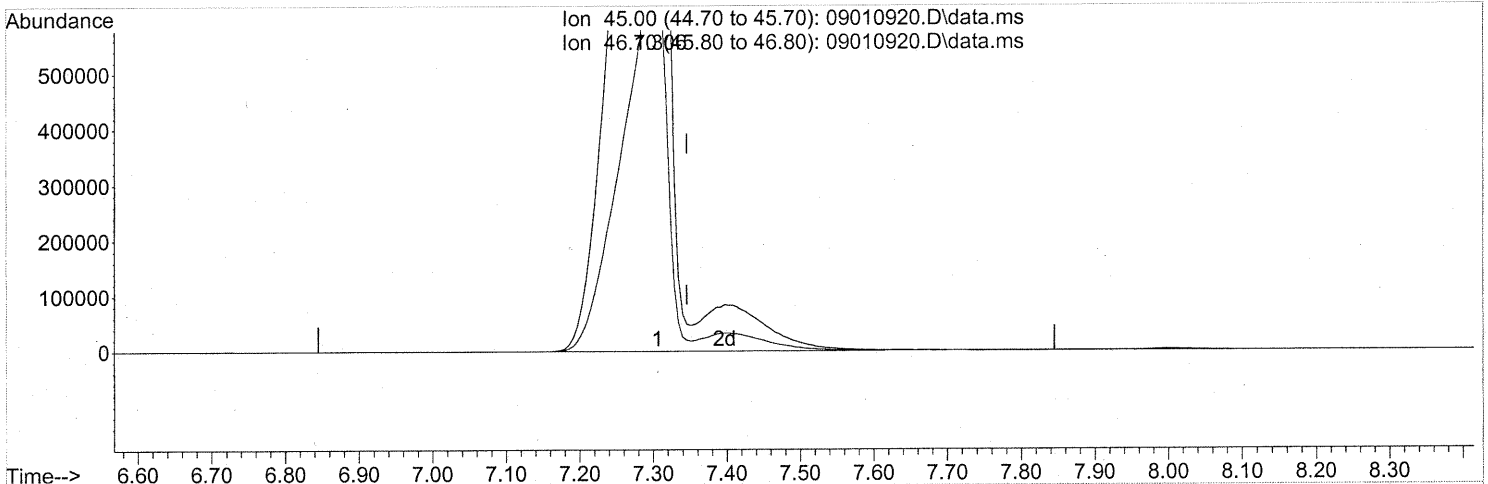
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.22
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)
 7.306min (-0.040) 406.46ng m
 response 7819875

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.72
0.00	0.00	0.00
0.00	0.00	0.00

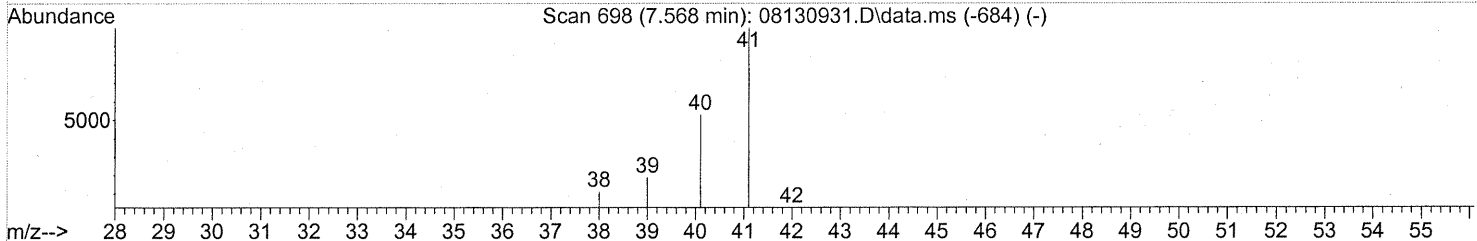
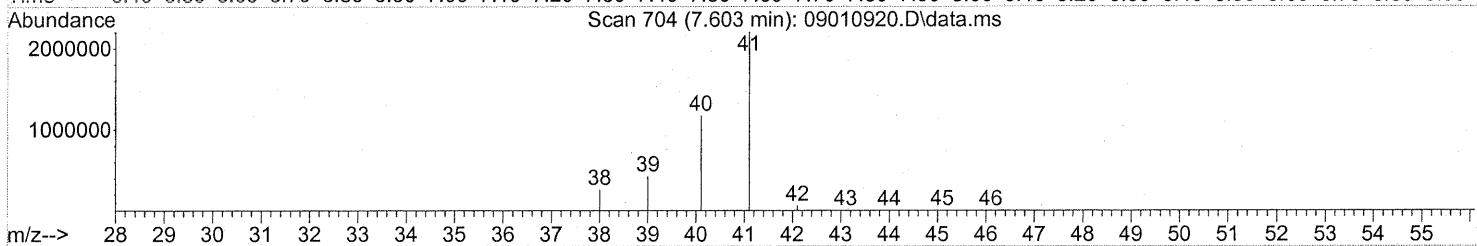
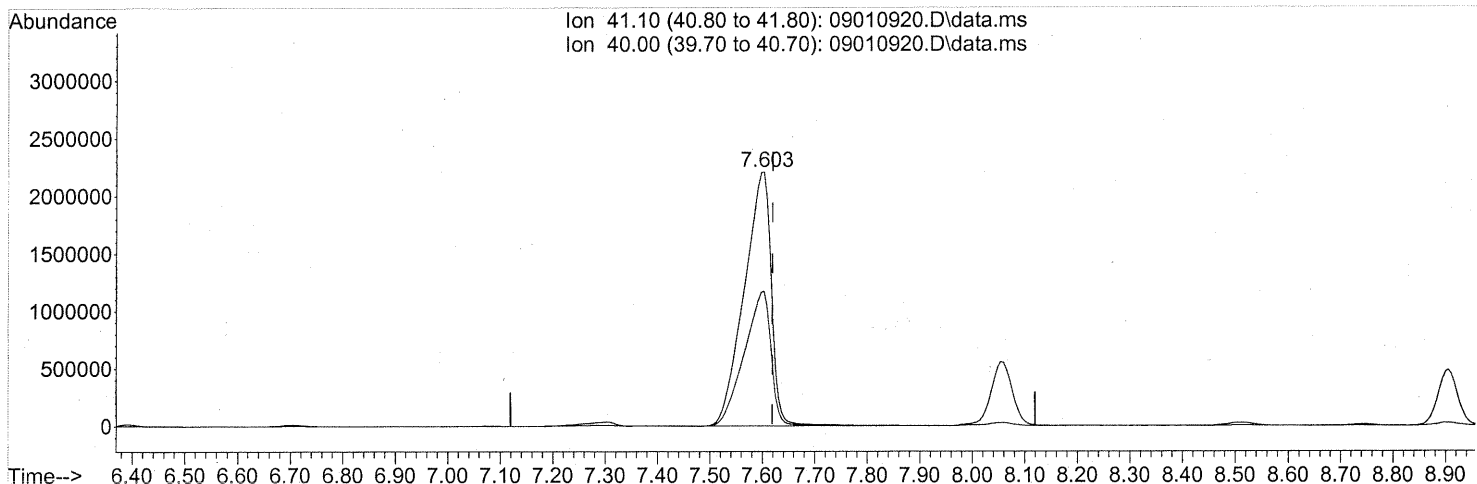
PT → IC
 Com 9/8/09

EM 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

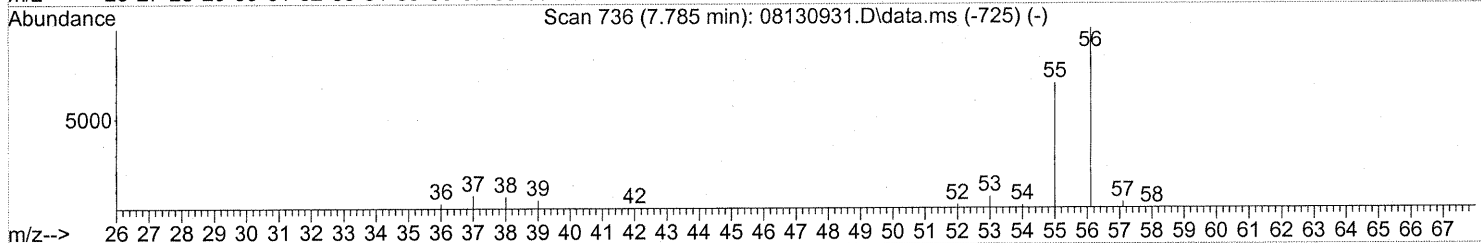
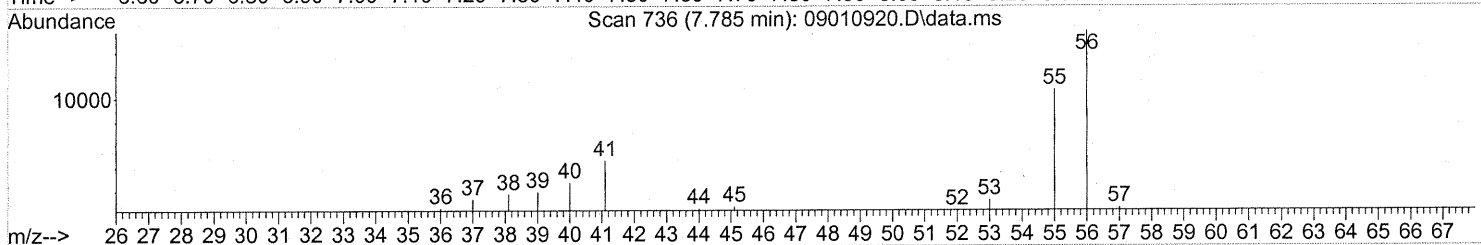
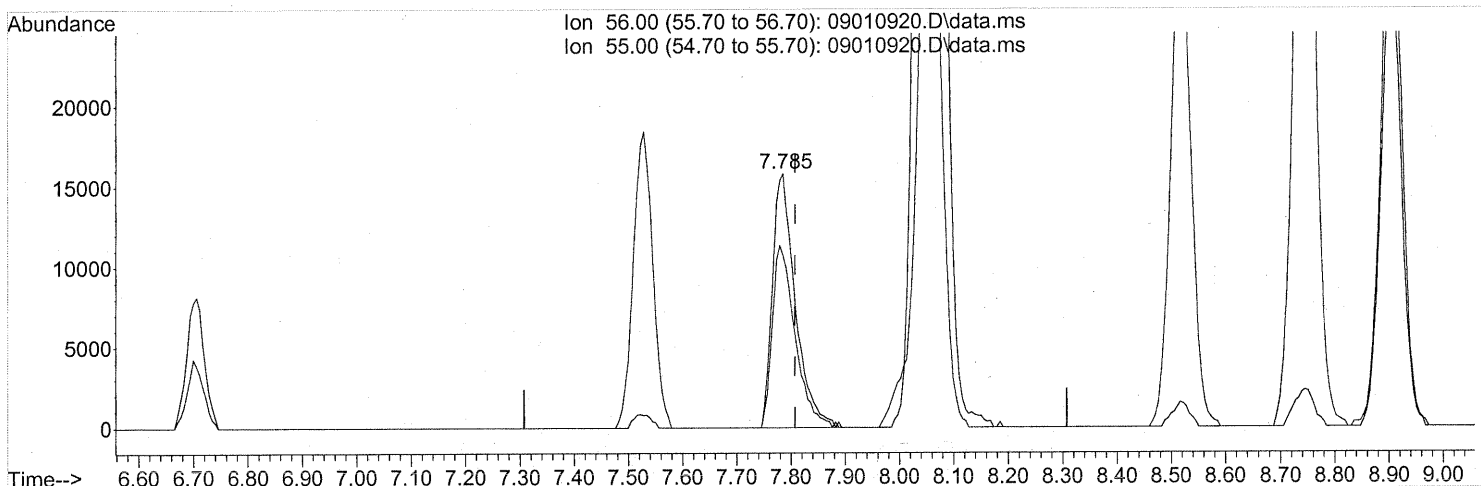
(11) Acetonitrile (T)
 7.603min (-0.017) 169.55ng
 response 7960531

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

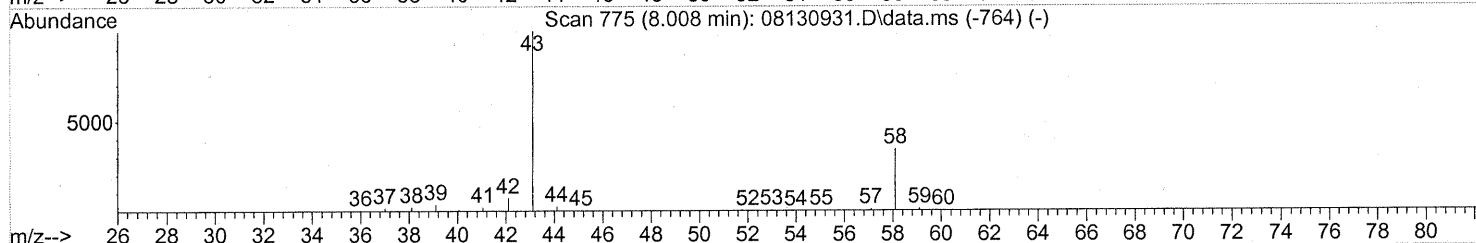
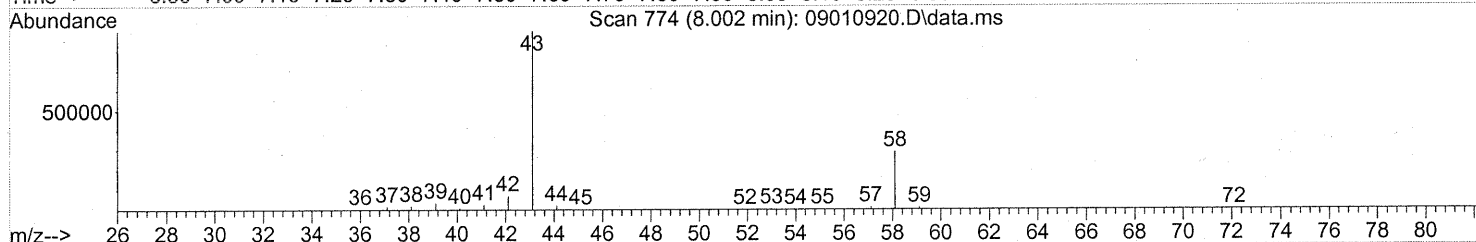
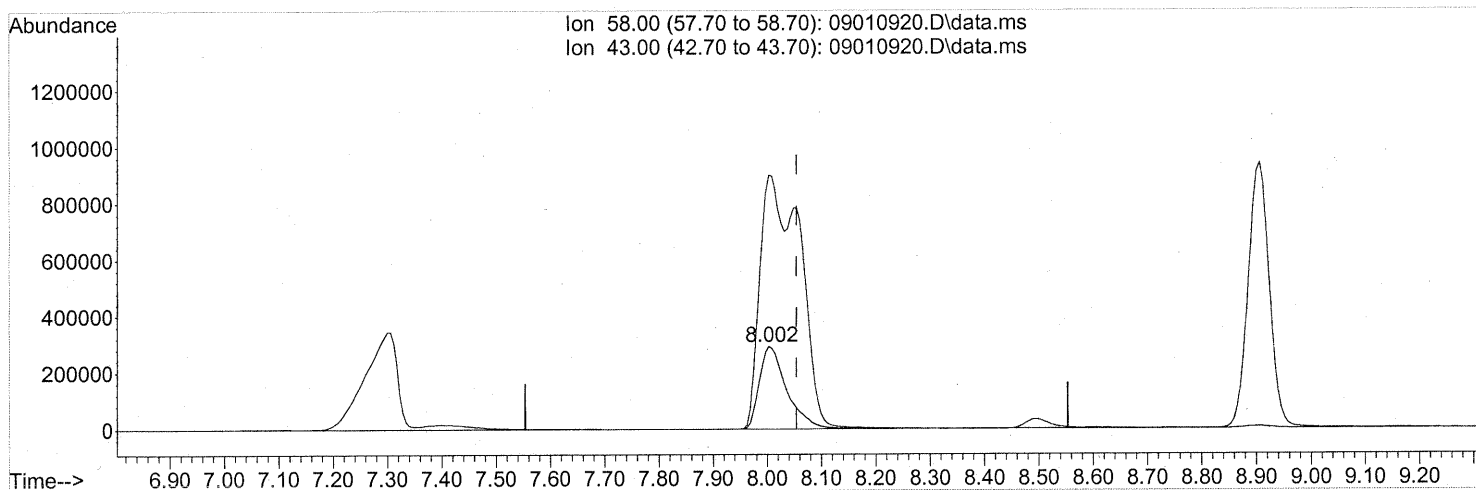
(12) Acrolein (T)
 7.785min (-0.023) 3.68ng
 response 46120

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	71.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(13) Acetone (T)

8.002min (-0.051) 52.23ng

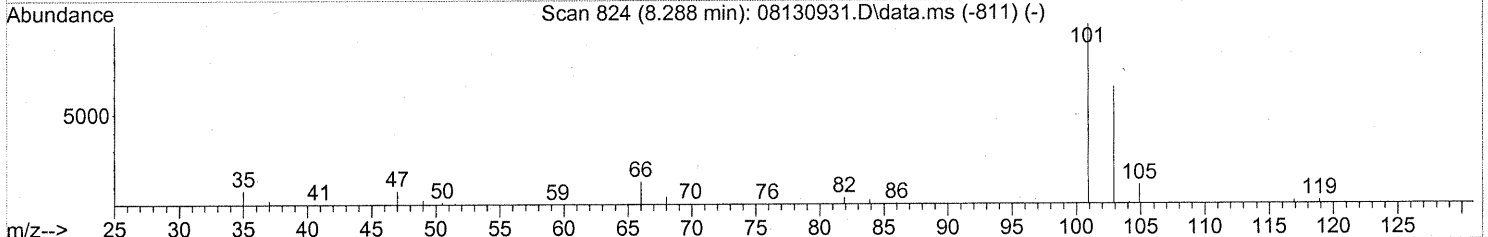
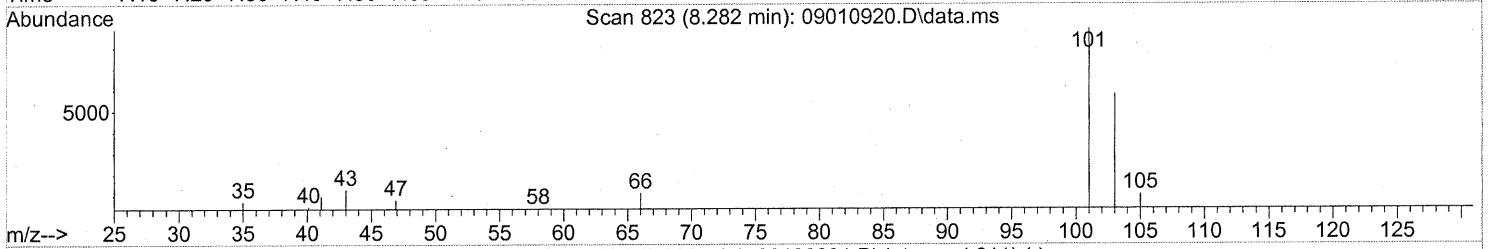
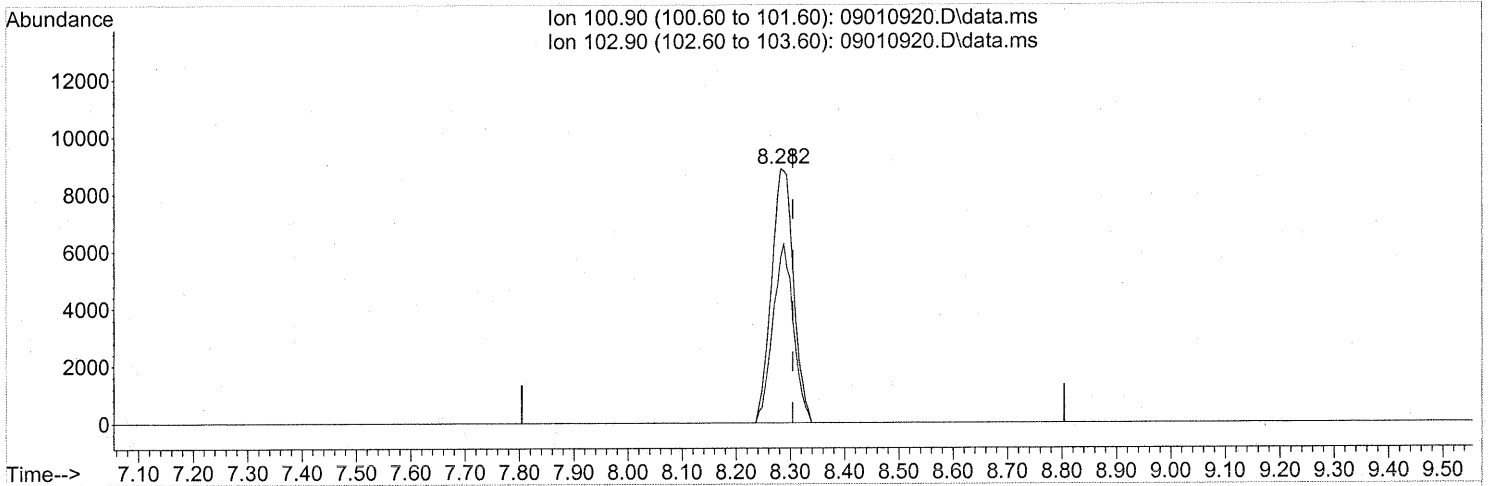
response 1022627

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	456.03#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09010920.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 0.67ng

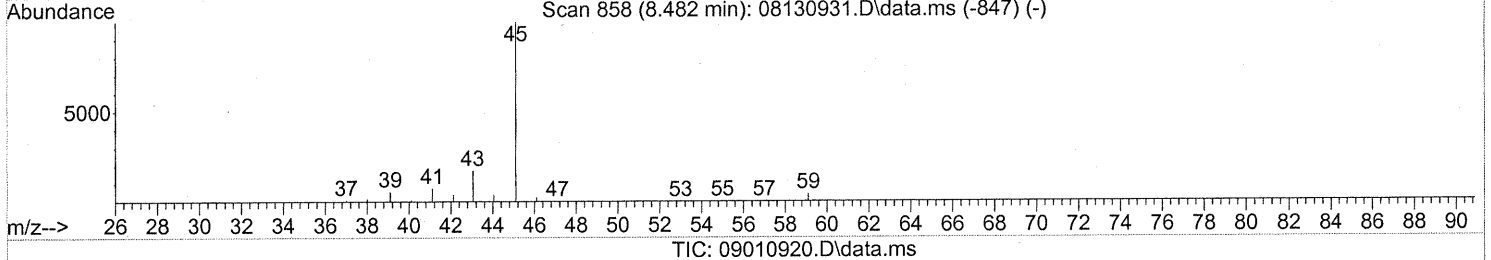
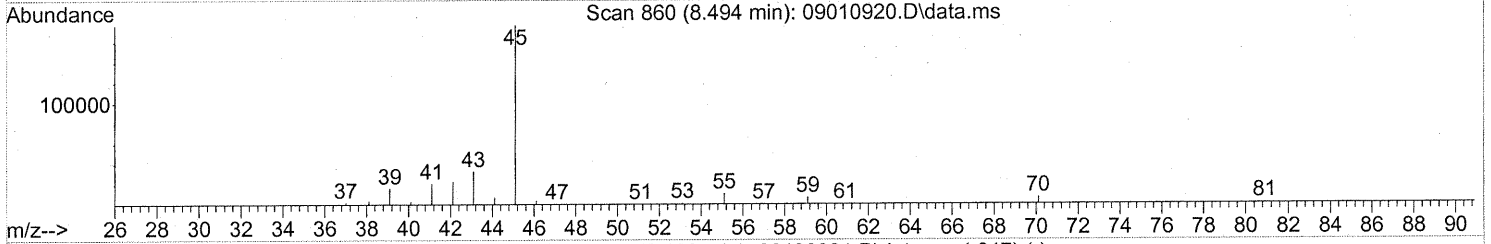
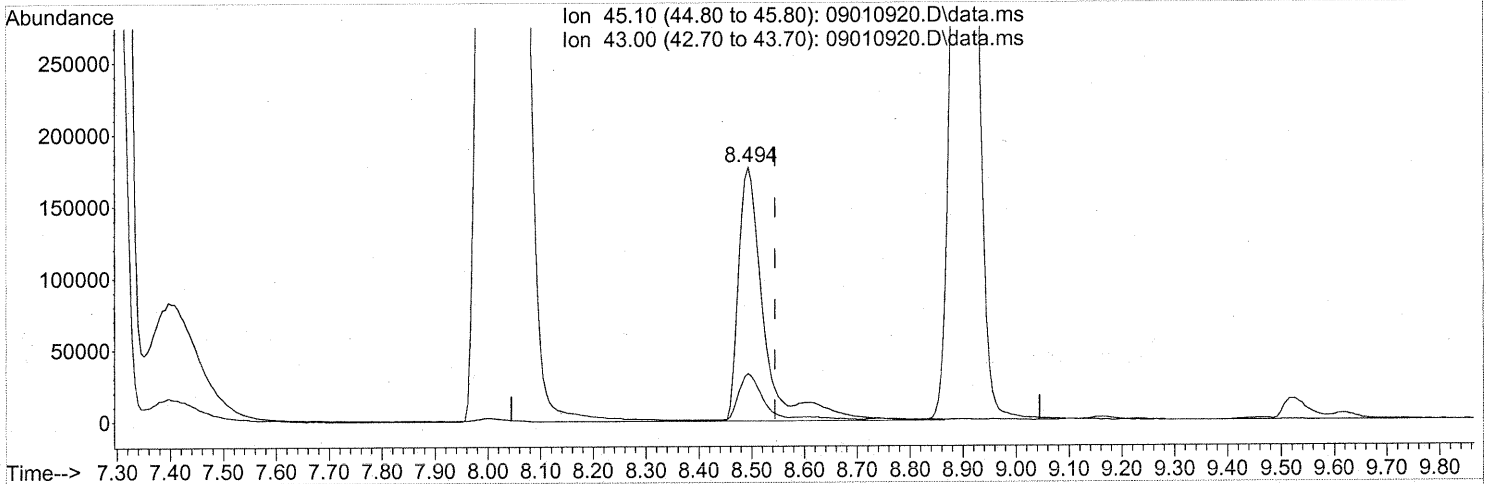
response 25046

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	65.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
Data File : 09010920.D
Acq On : 1 Sep 2009 22:37
Operator : EM
Sample : P0902975-002 (1000ml)
Misc : Environmental H & E 103994
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
Quant Method : J:\MS09\Methods\R9081309.M
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QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



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

8.494min (-0.051) 11.08ng

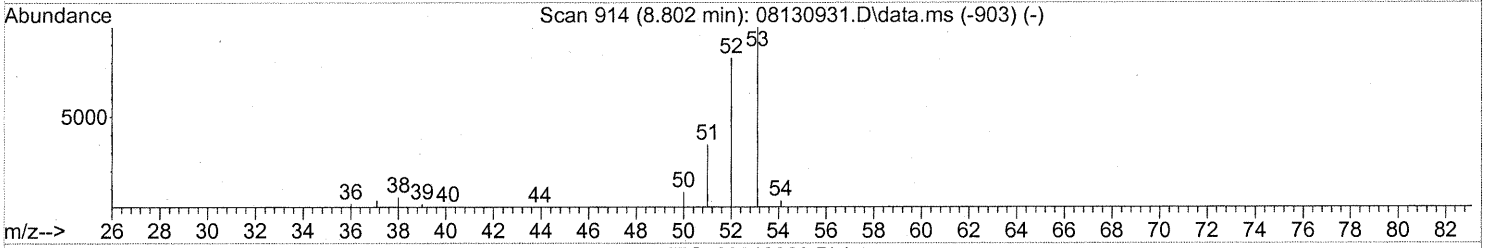
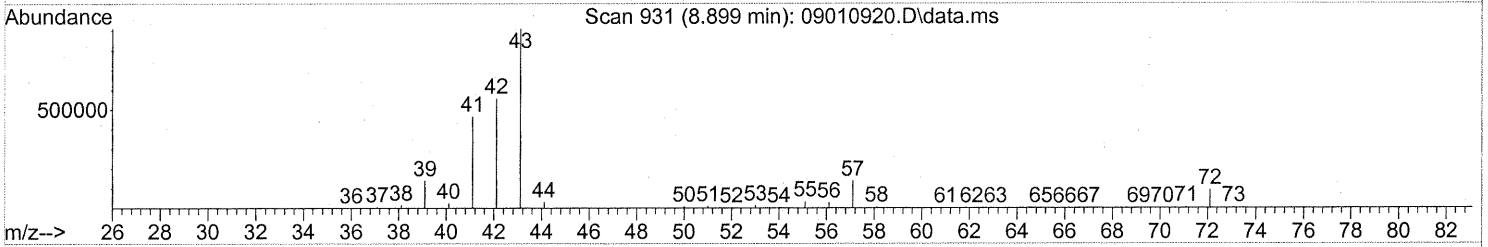
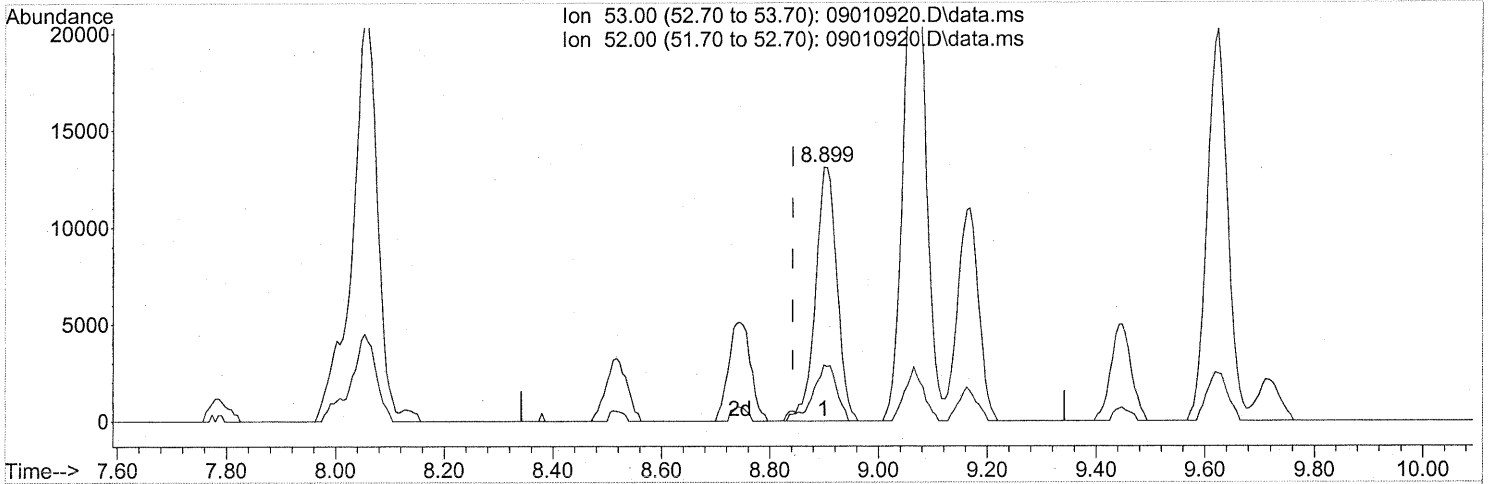
response 593807

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.899min (+0.057) 1.27ng
 response 36120

Ion	Exp%	Act%
53.00	100	100
52.00	84.50	24.17#
0.00	0.00	0.00
0.00	0.00	0.00

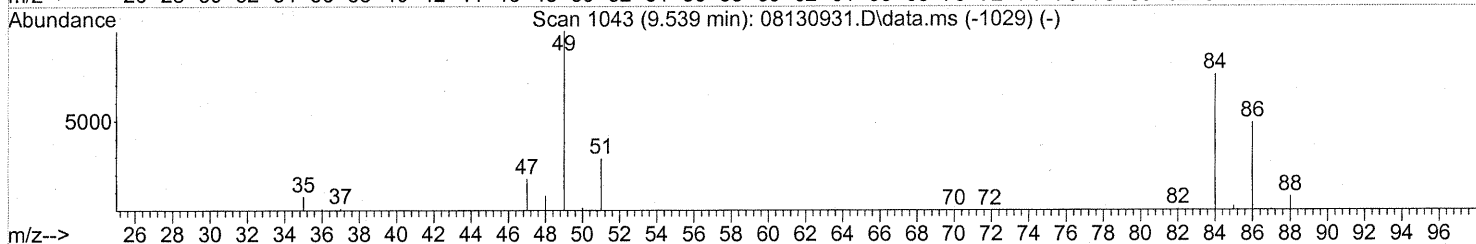
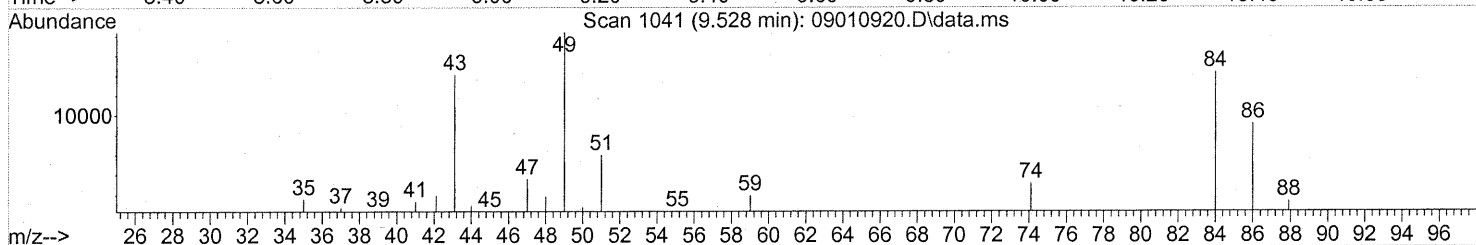
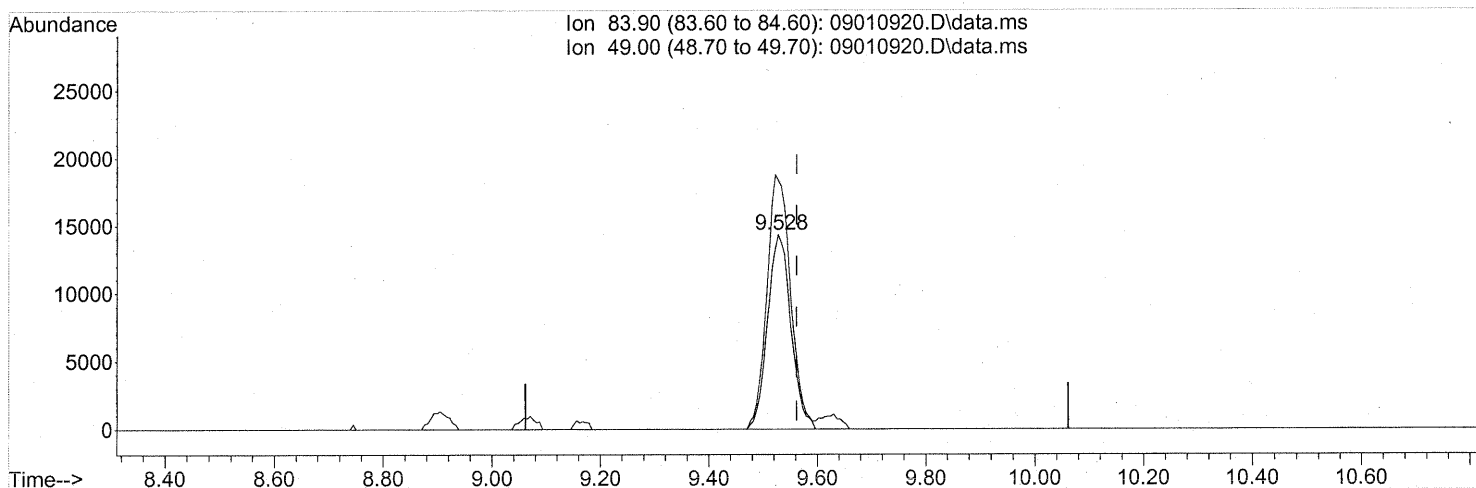
FP 8m 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09010920.D\data.ms

(19) Methylene Chloride (T)

9.528min (-0.034) 1.74ng

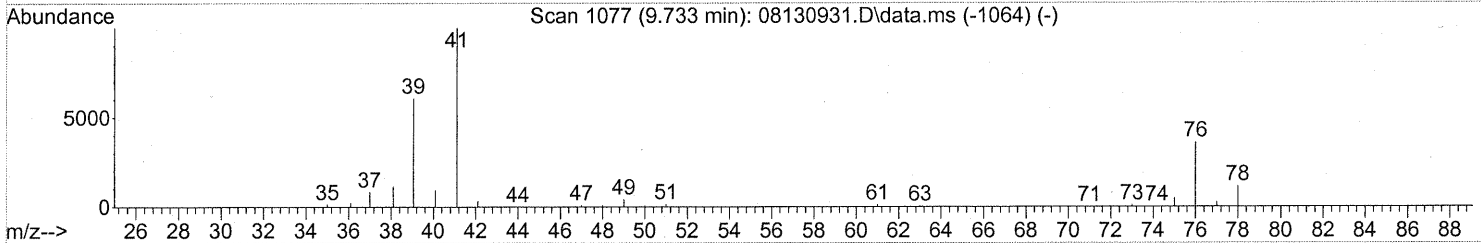
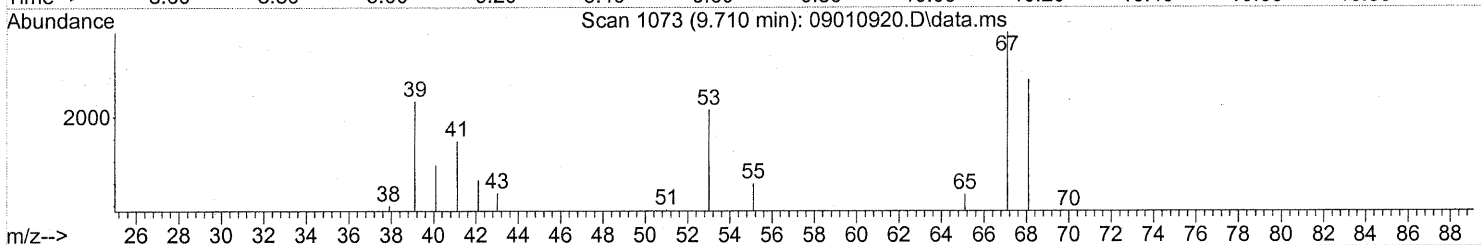
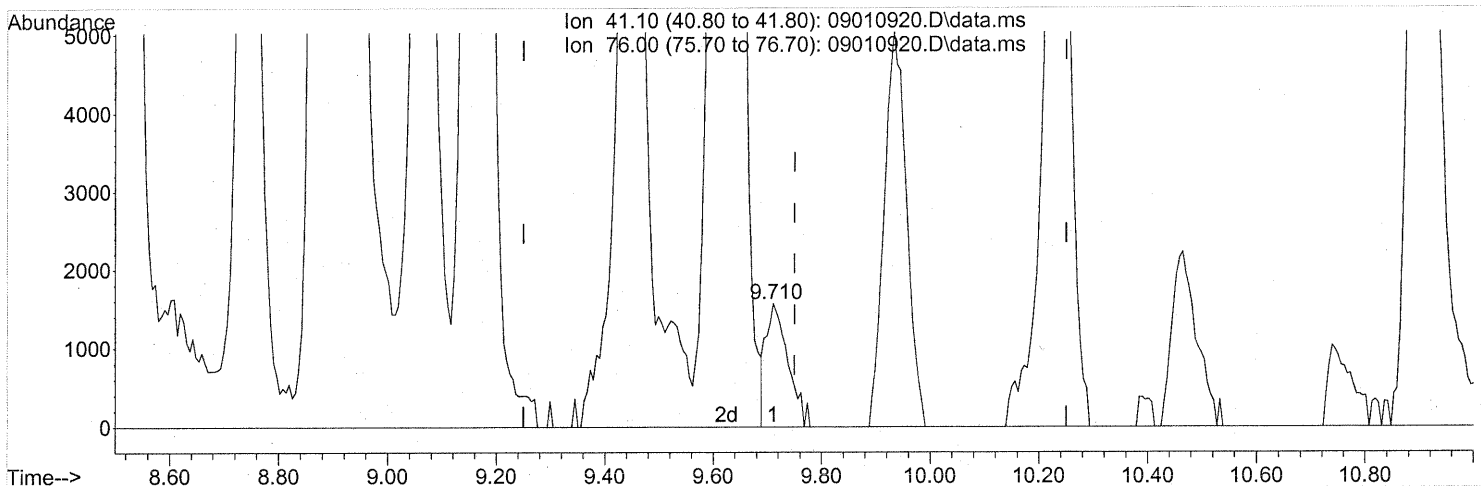
response 42549

Ion	Exp%	Act%
83.90	100	100
49.00	118.80	133.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

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

9.710min (-0.040) 0.14ng

response 4511

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

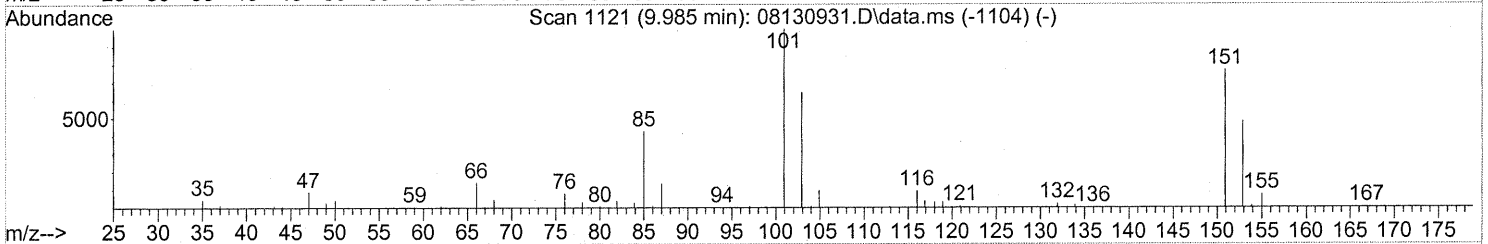
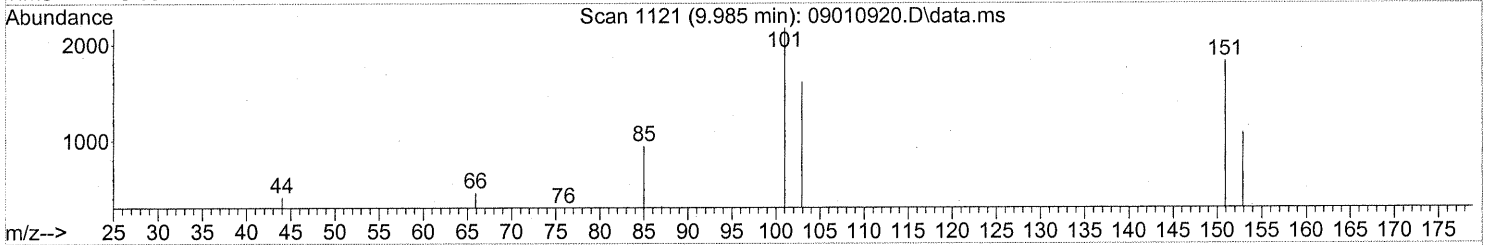
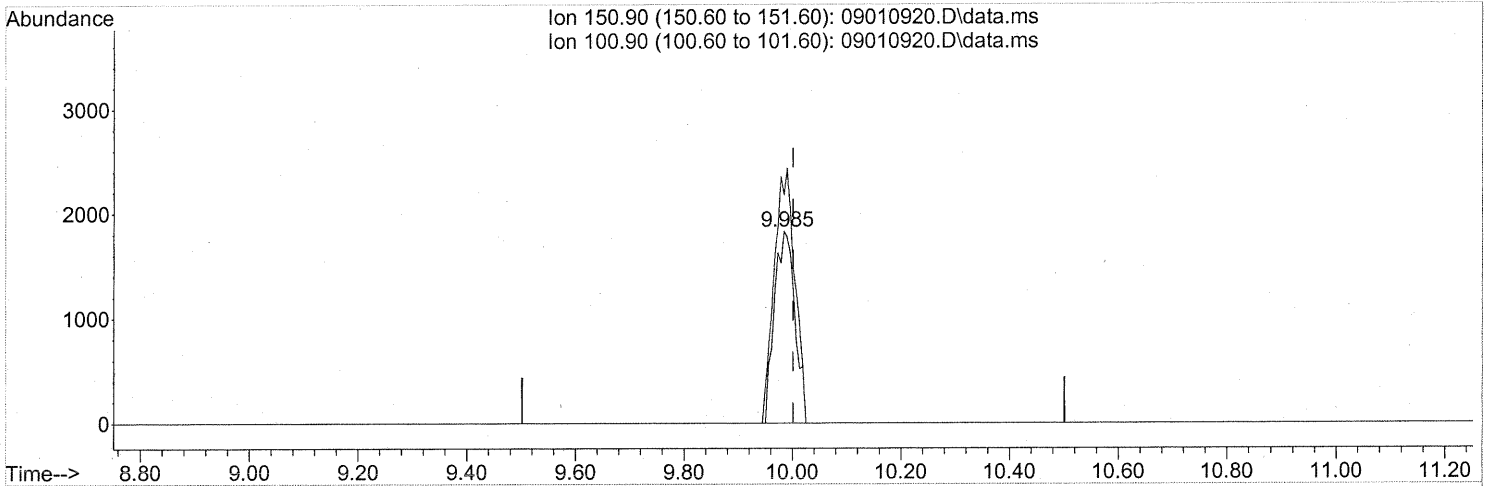
FP em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09010920.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.29ng

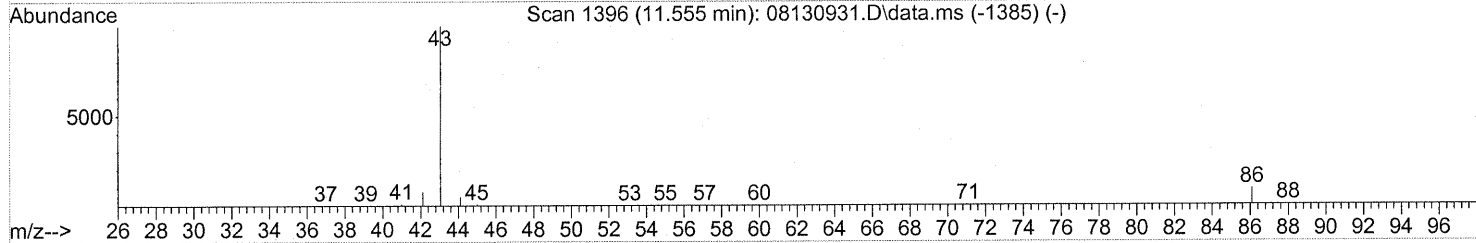
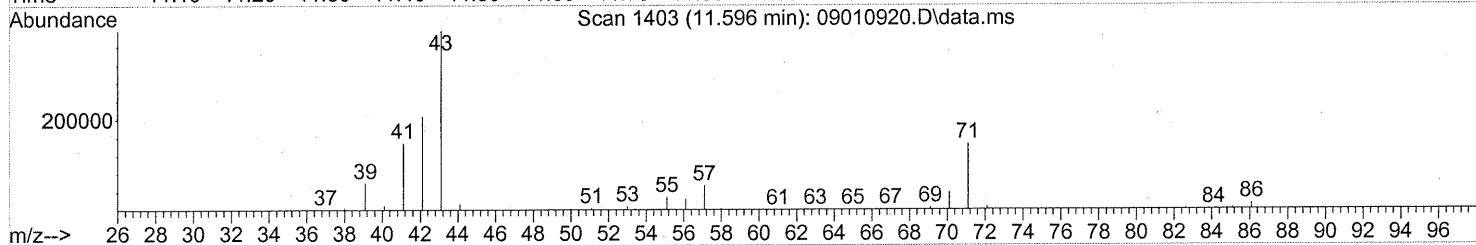
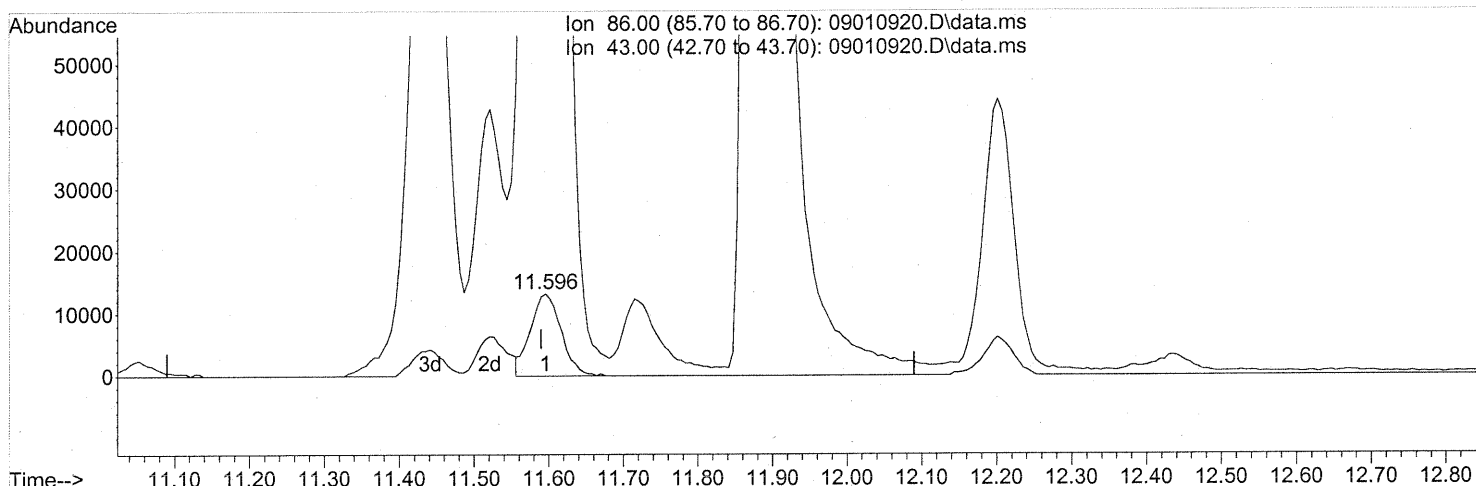
response 4778

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	134.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
Data File : 09010920.D
Acq On : 1 Sep 2009 22:37
Operator : EM
Sample : P0902975-002 (1000ml)
Misc : Environmental H & E 103994
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA 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: 09010920.D\data.ms

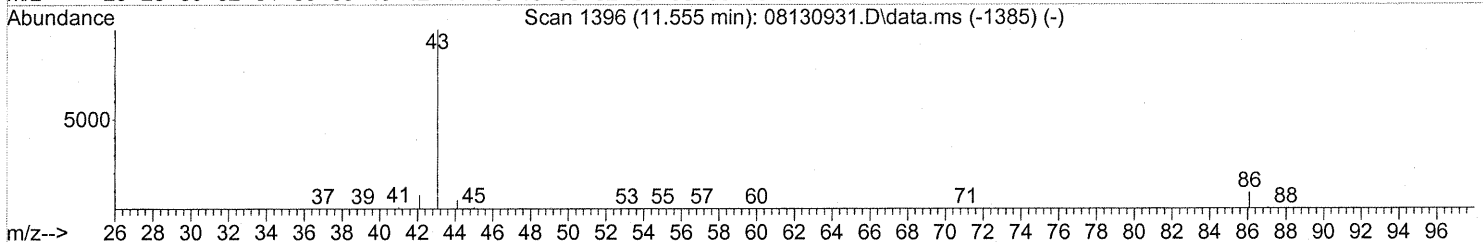
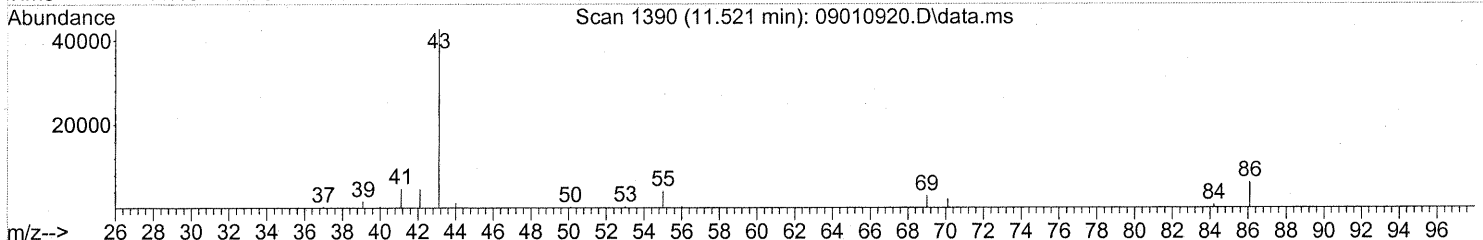
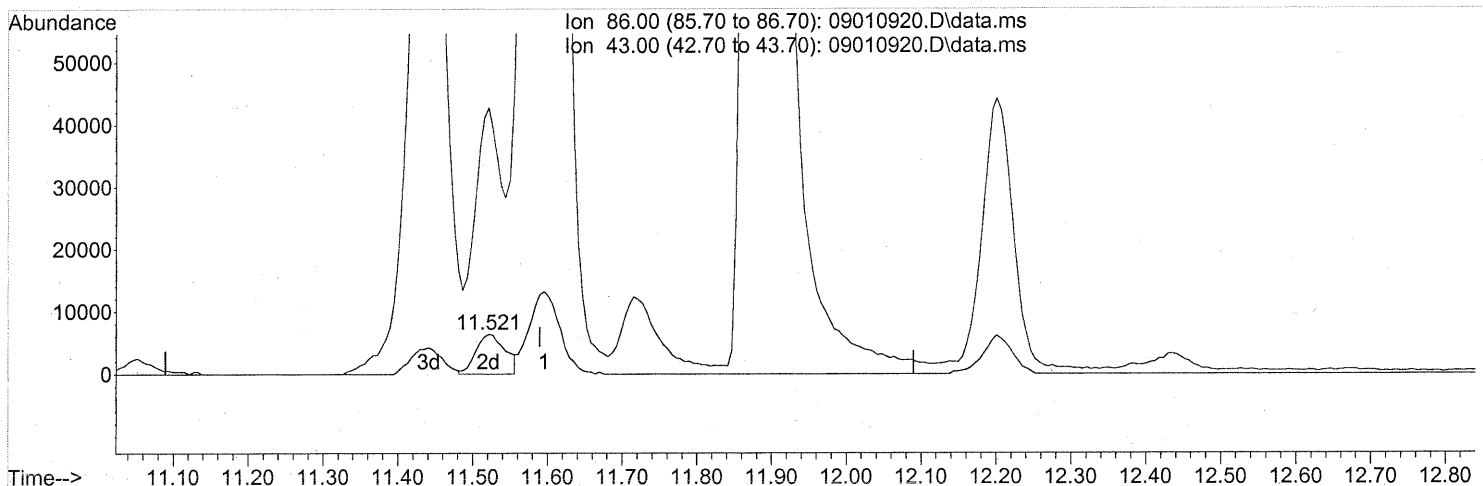
(26) Vinyl Acetate (T)
11.596min (+0.006) 8.89ng
response 37684
Ion Exp% Act%
86.00 100 100
43.00 992.90 2886.12#
0.00 0.00 0.00
0.00 0.00 0.00

mp

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(26) Vinyl Acetate (T)

11.521min (-0.069) 4.09ng m

response 17339

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	6272.61#
0.00	0.00	0.00
0.00	0.00	0.00

mp → LC

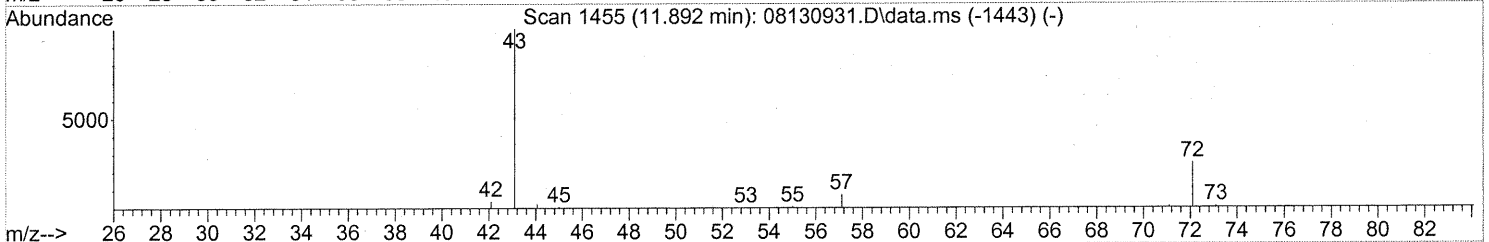
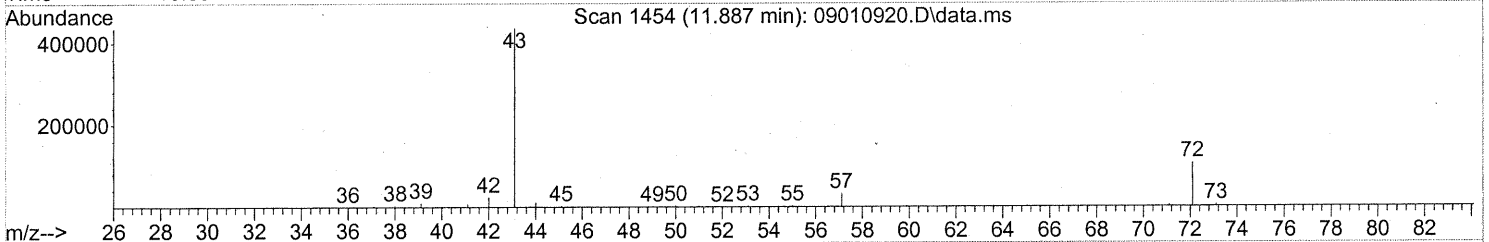
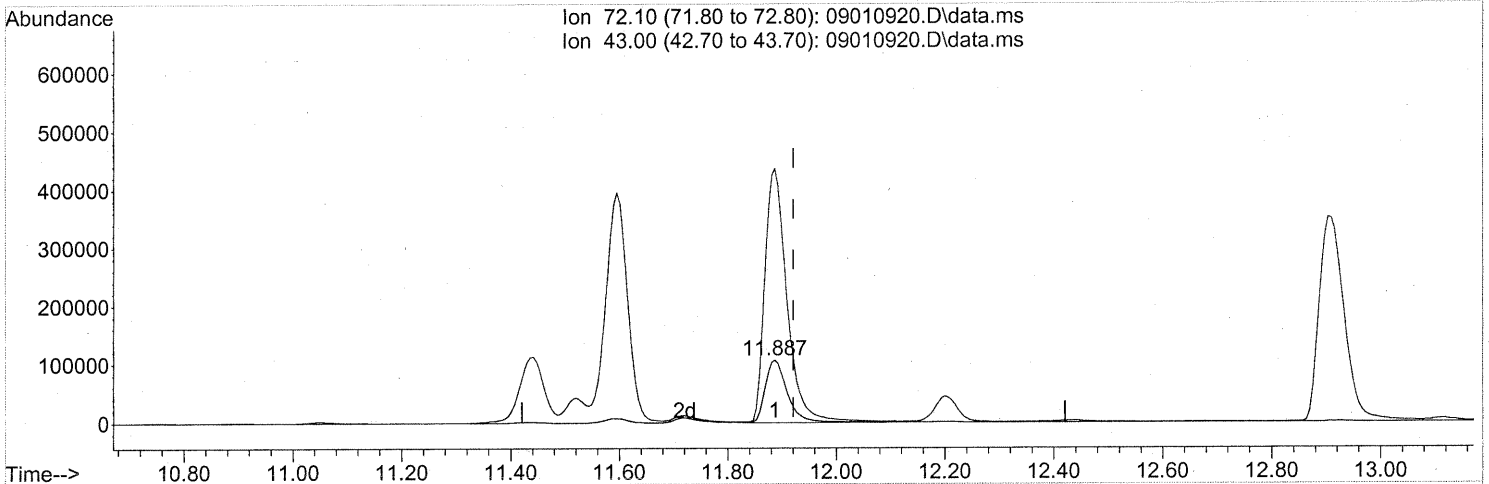
Em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
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Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)

11.887min (-0.034) 21.99ng

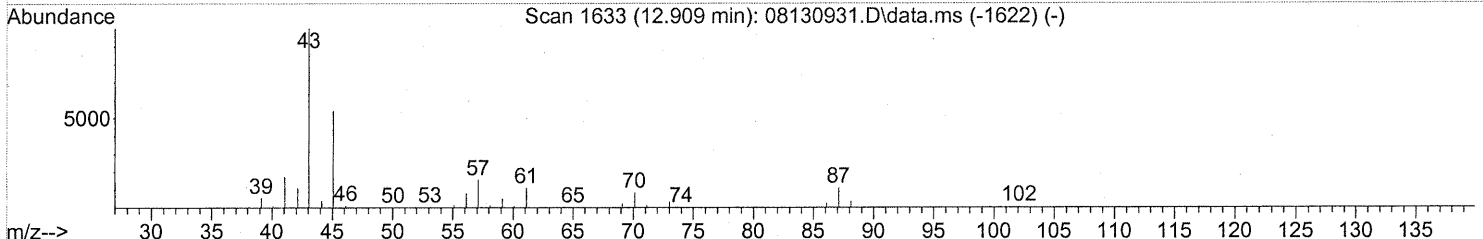
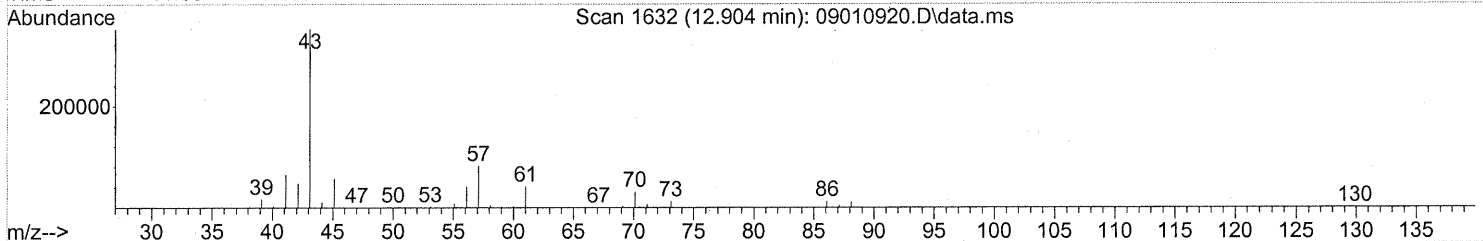
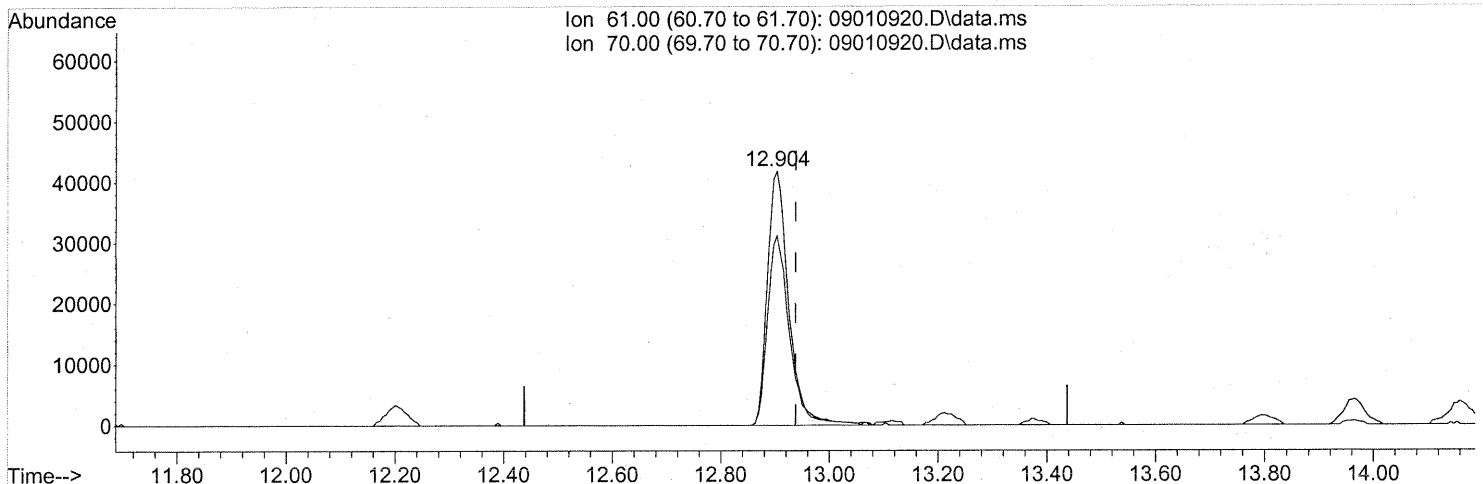
response 300149

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	407.74#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

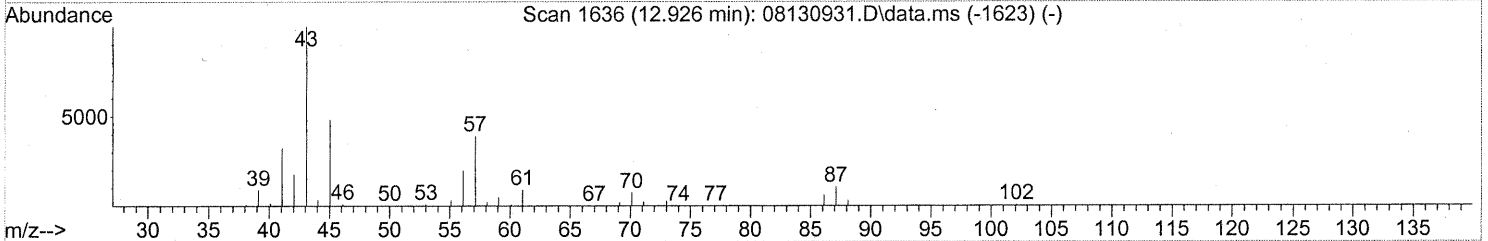
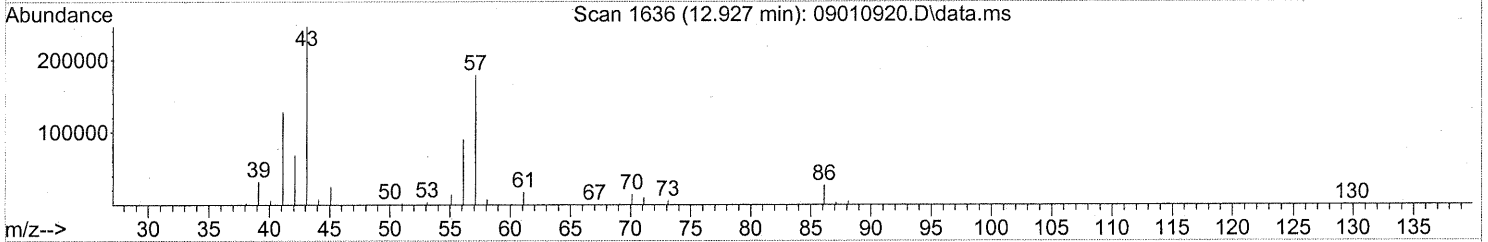
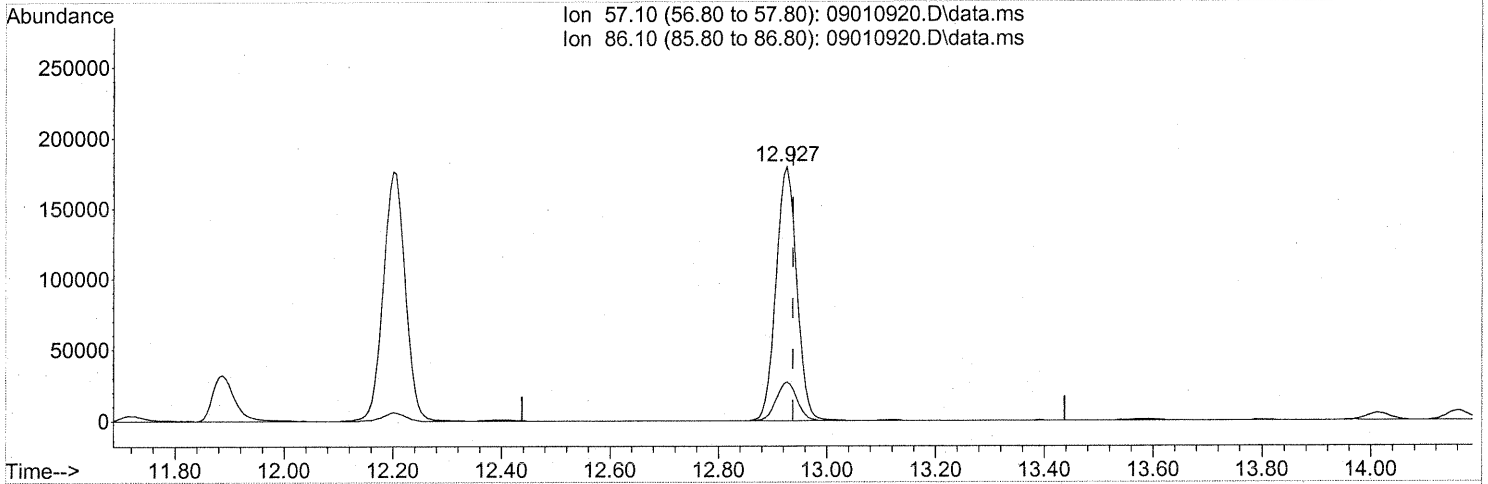
(30) Ethyl Acetate (T)
 12.904min (-0.034) 12.89ng
 response 114107

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	76.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



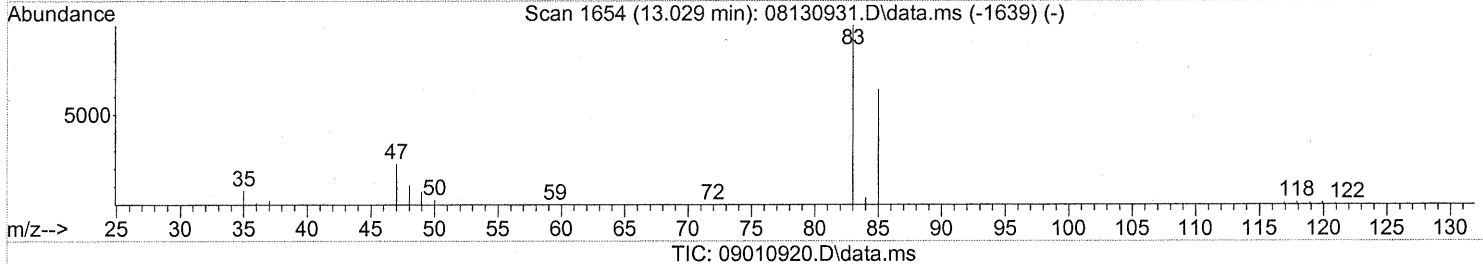
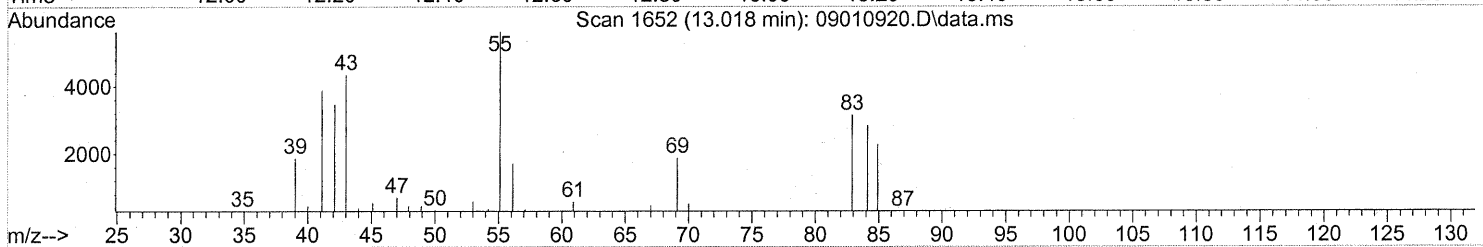
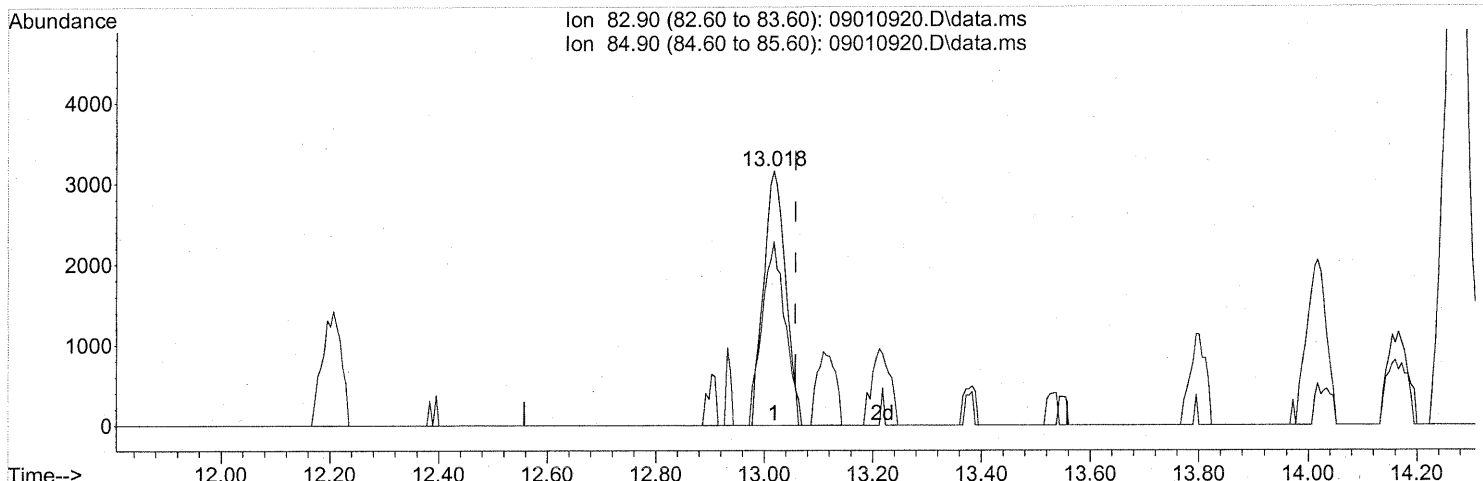
(31) n-Hexane (T)
 12.927min (-0.011) 10.97ng
 response 473311

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)
 13.018min (-0.040) 0.25ng
 response 8930

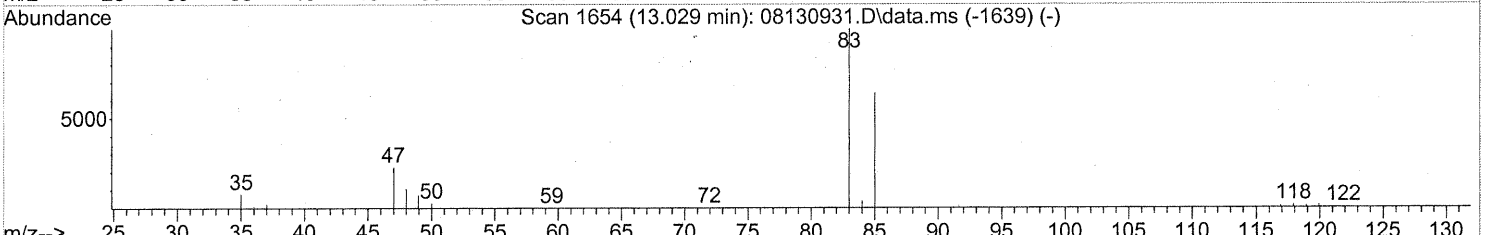
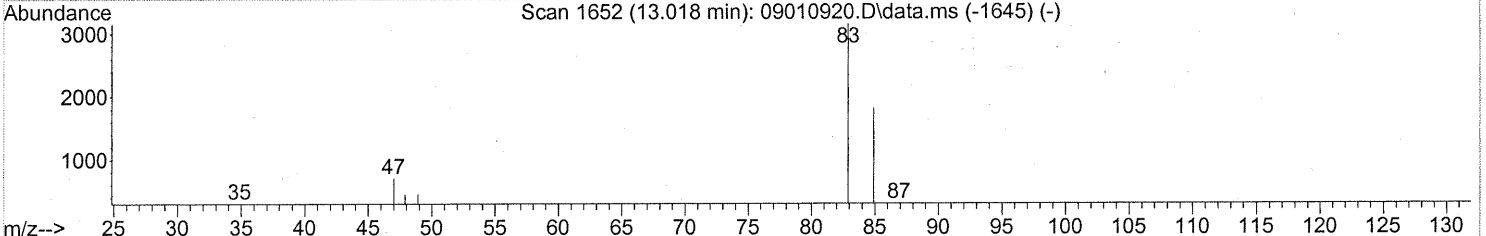
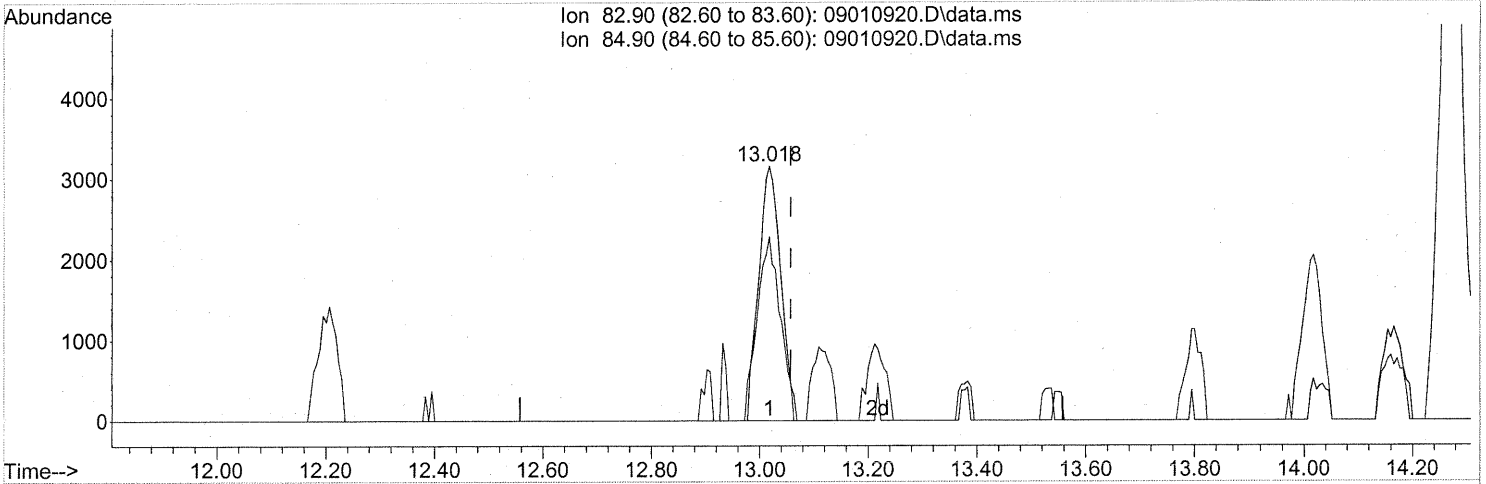
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	75.35
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(32) Chloroform (T)
 13.018min (-0.040) 0.25ng
 response 8930

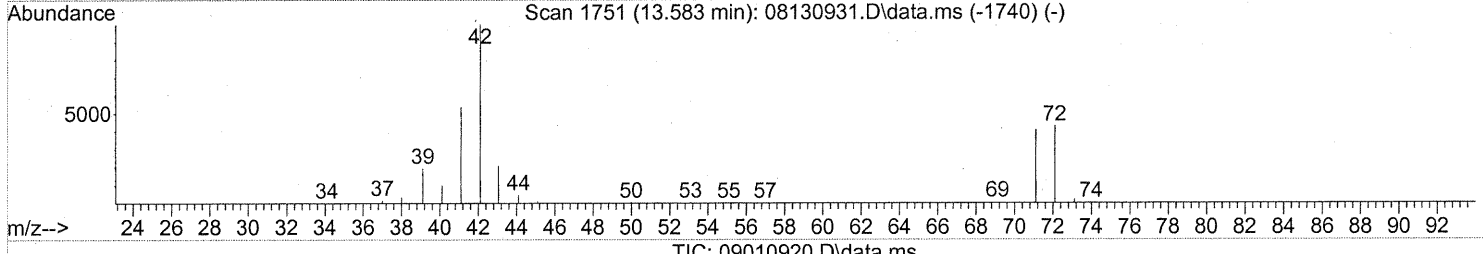
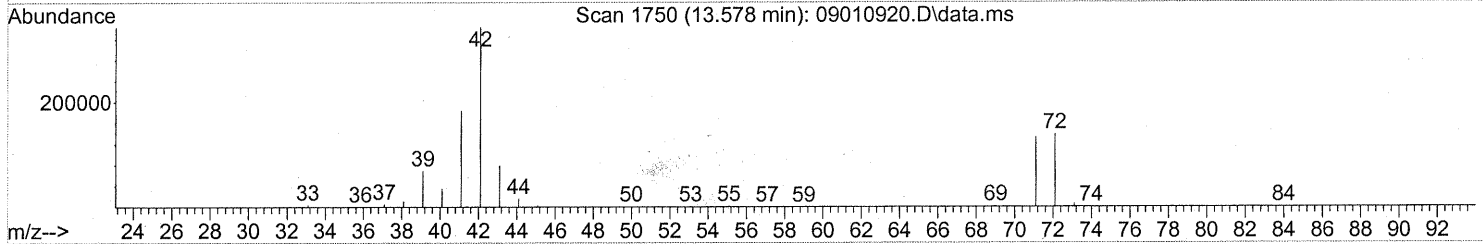
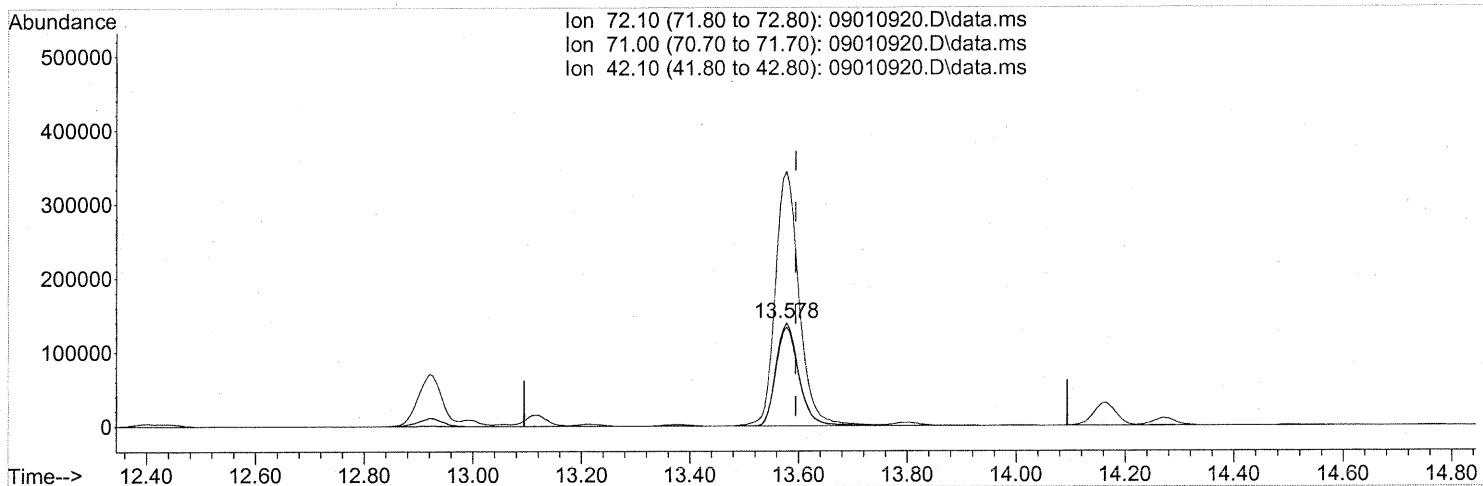
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	75.35
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 em 9/8/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)

13.578min (-0.017) 28.42ng

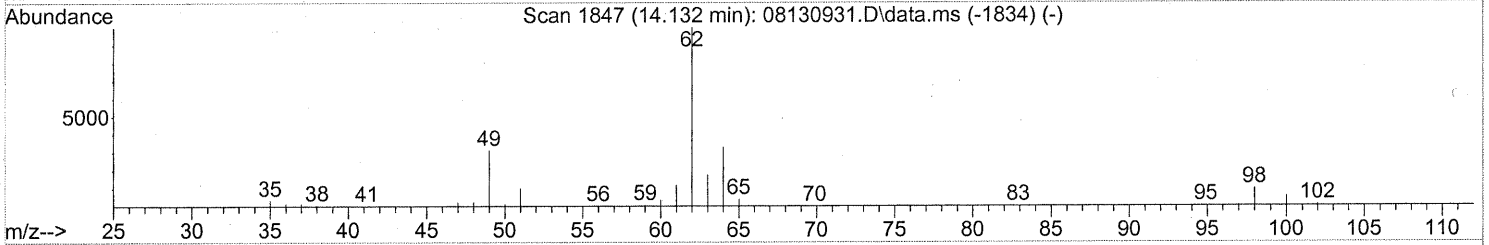
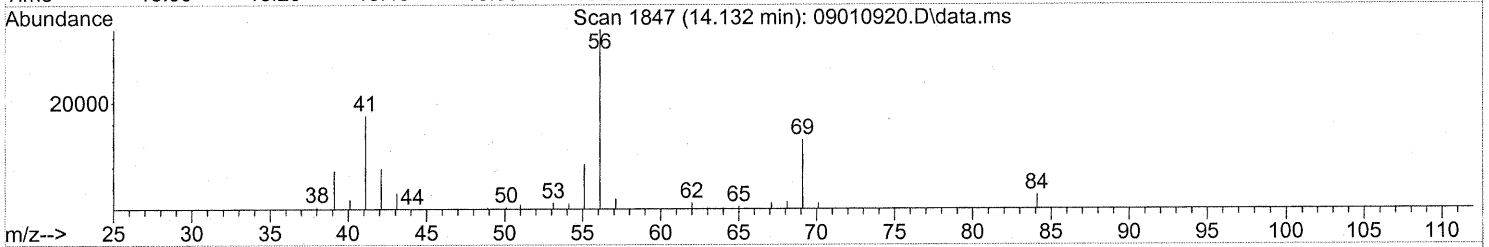
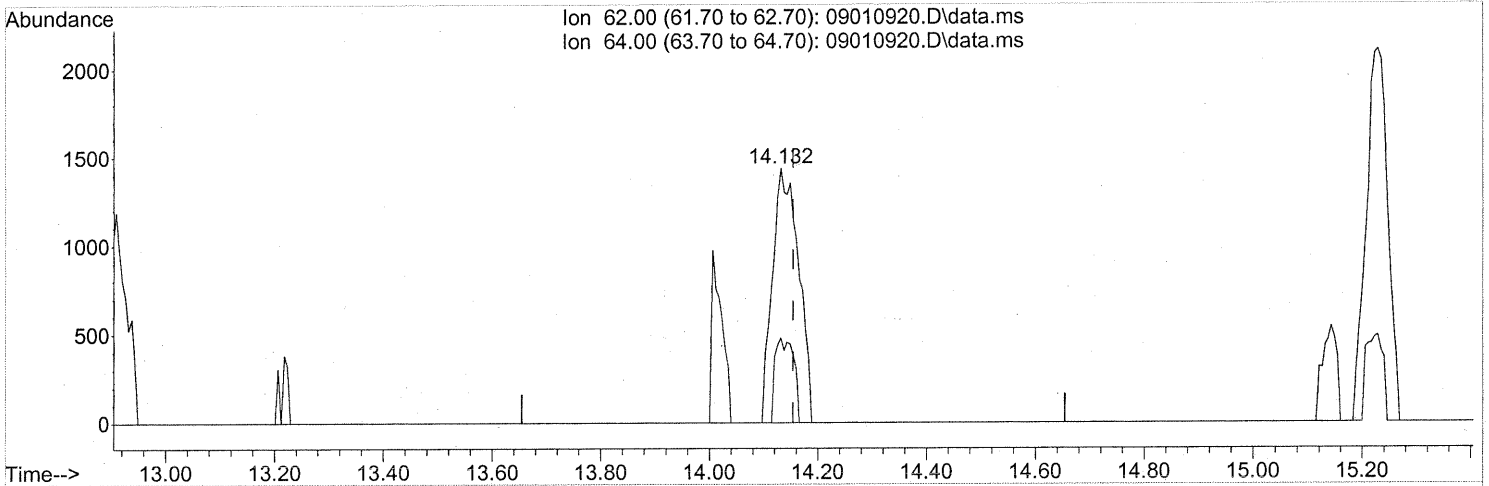
response 403276

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	95.99
42.10	206.50	258.07#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 0.17ng

response 4776

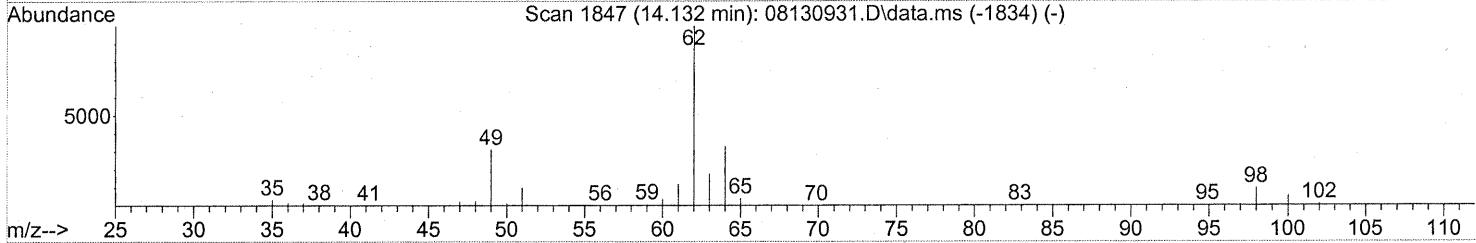
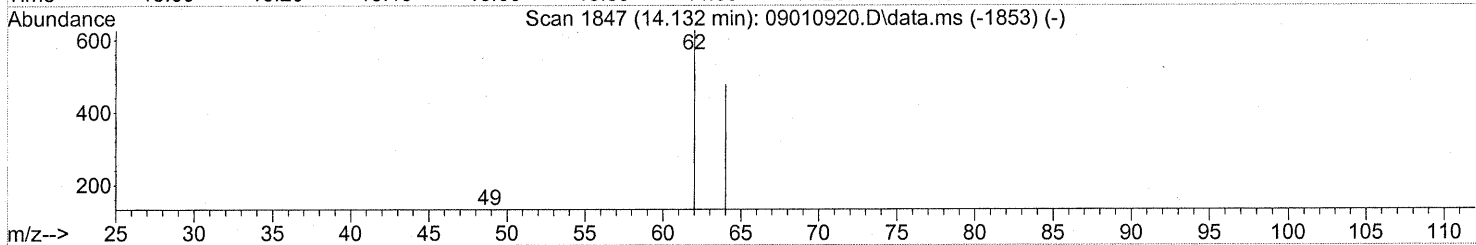
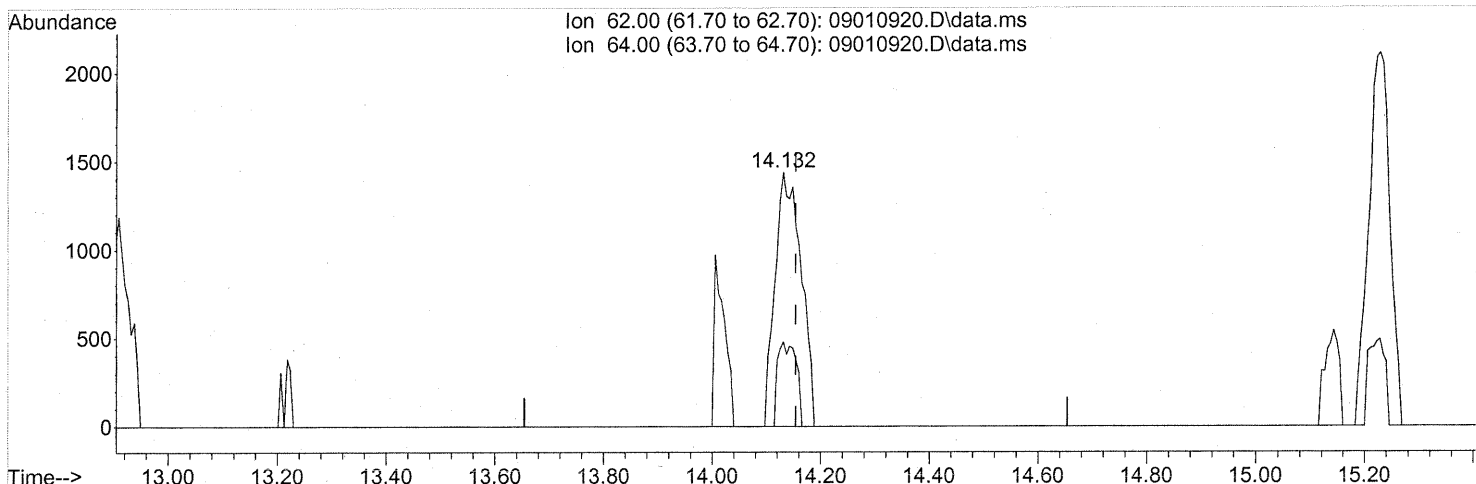
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	23.49
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 0.17ng

response 4776

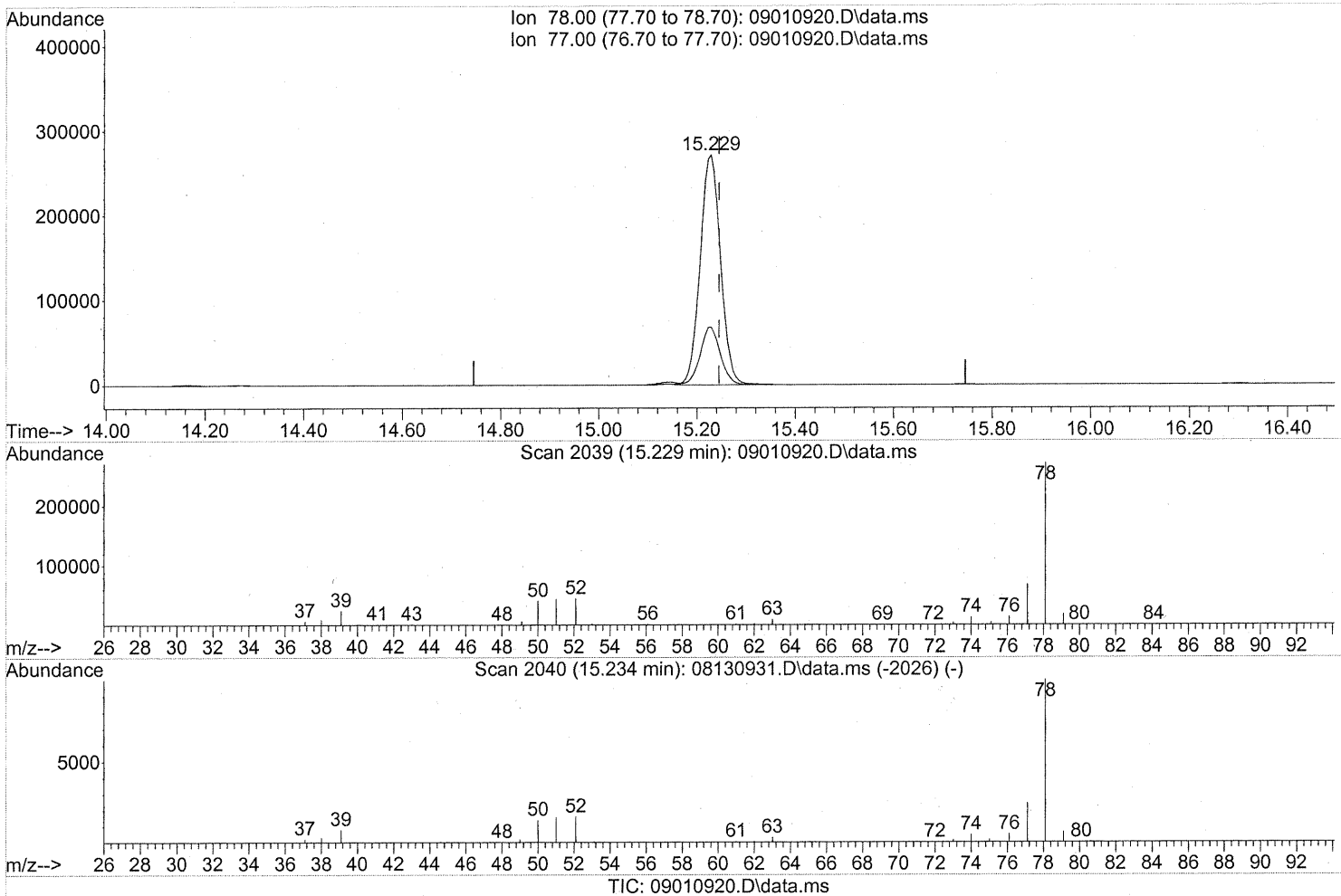
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	23.49
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 em 9/8/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(41) Benzene (T)

15.229min (-0.017) 8.15ng

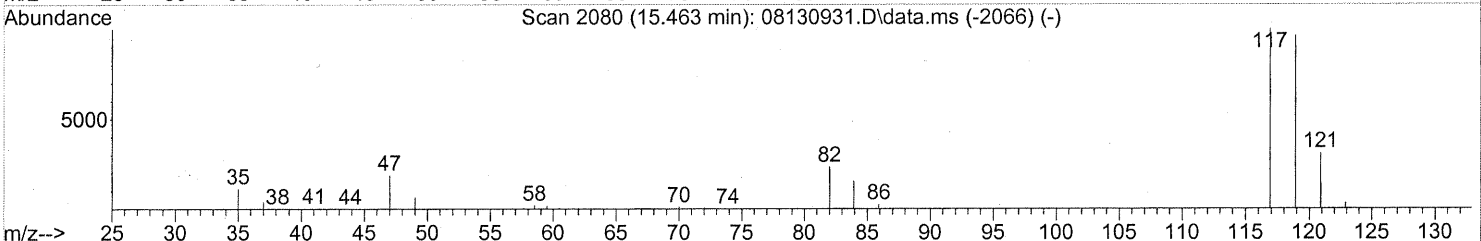
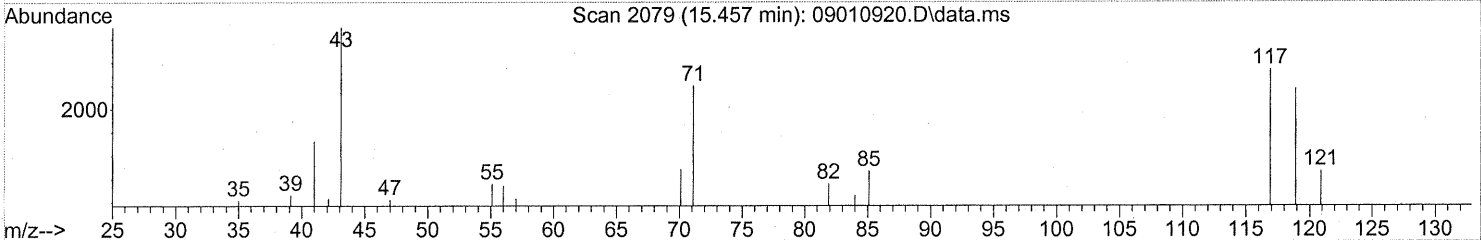
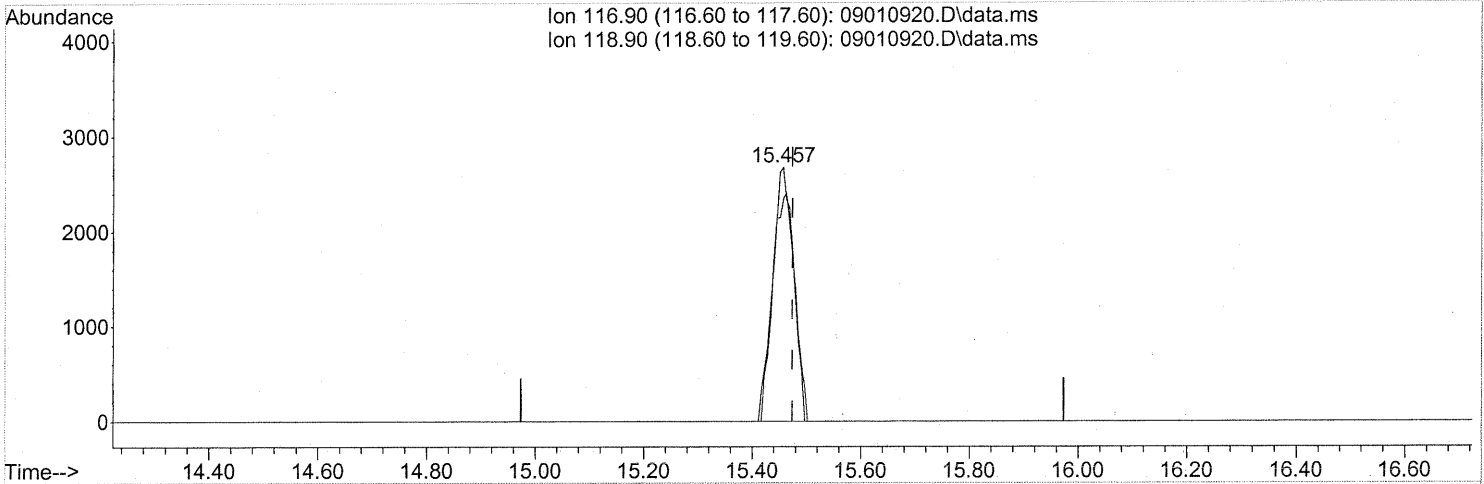
response 780602

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.27ng

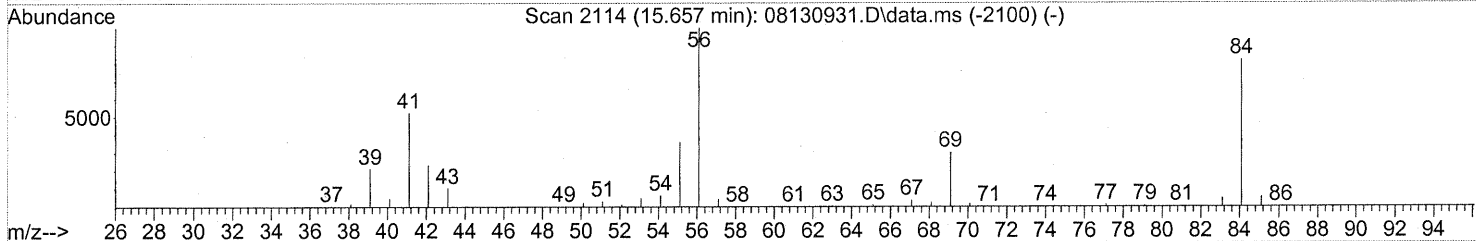
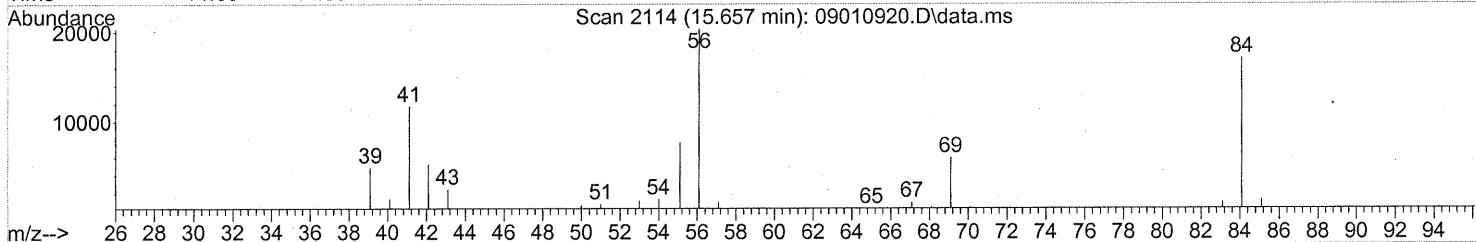
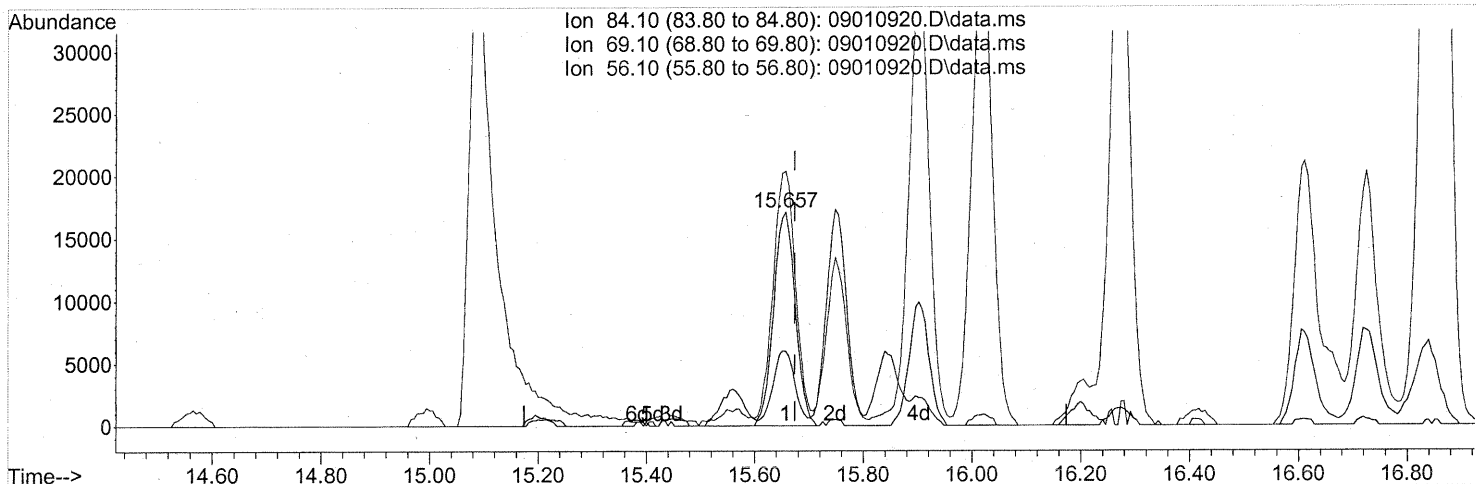
response 7161

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	95.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



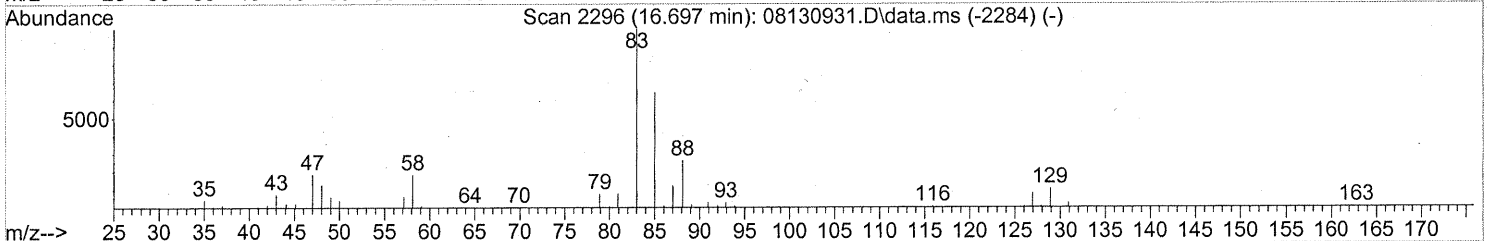
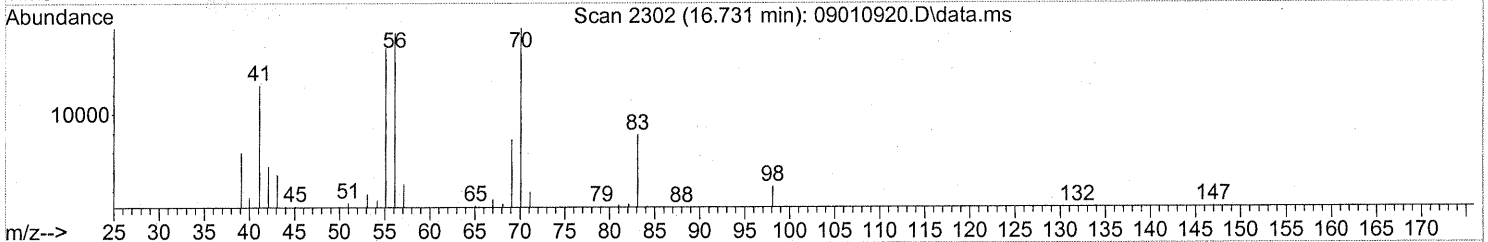
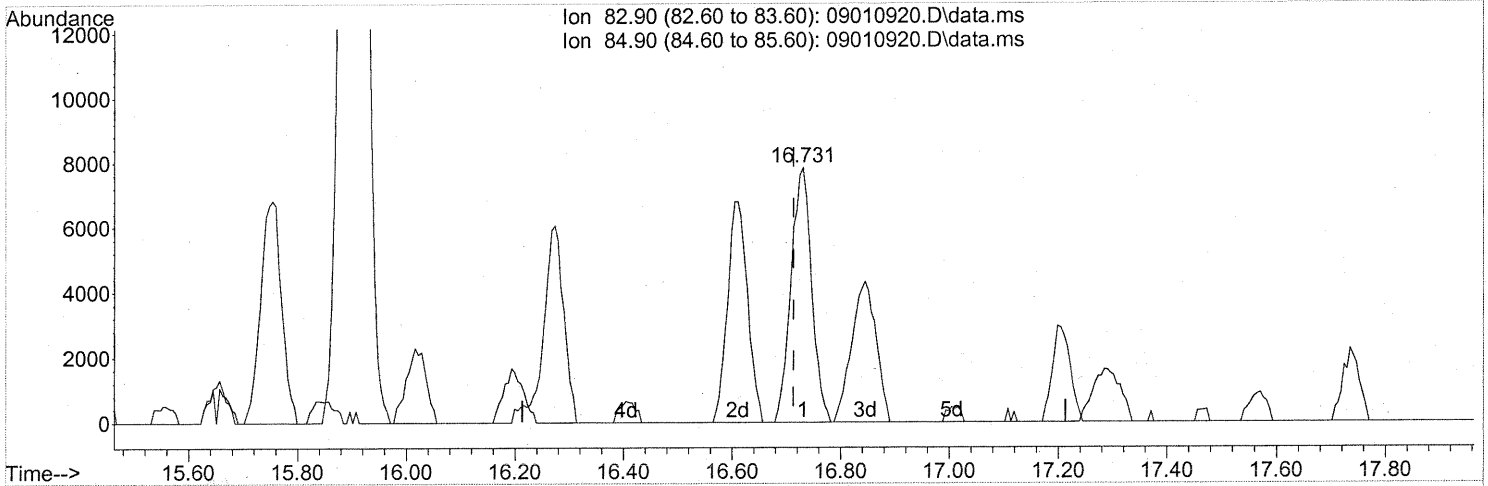
(43) Cyclohexane (T)
 15.657min (-0.017) 1.27ng
 response 47137

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	35.73
56.10	107.30	125.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)

16.731min (+0.017) 0.74ng

response 20660

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

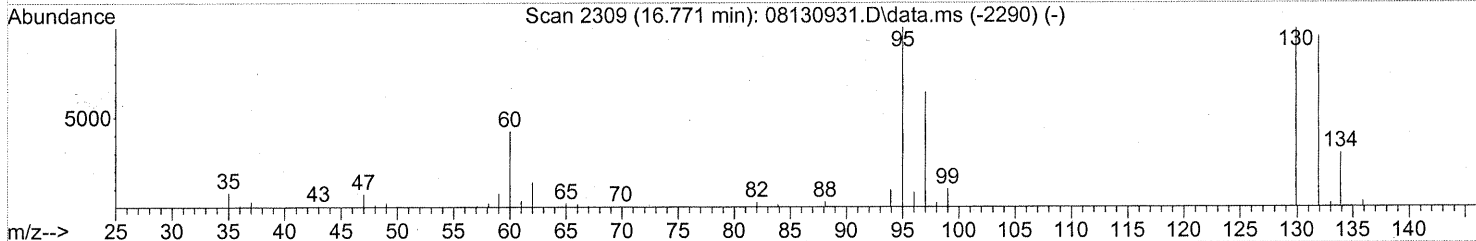
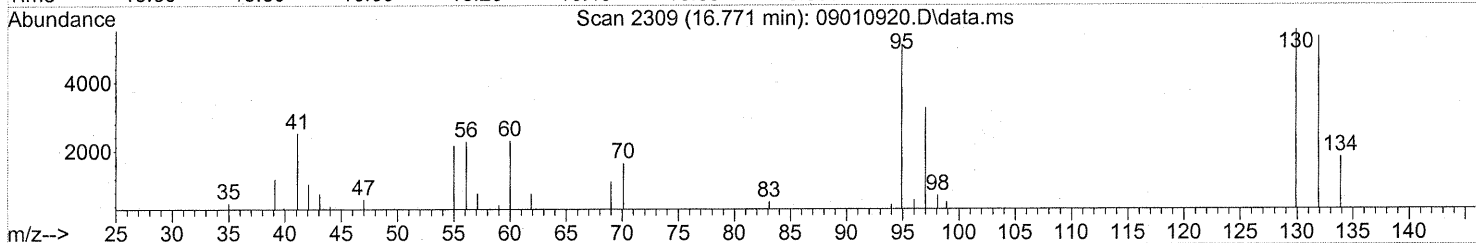
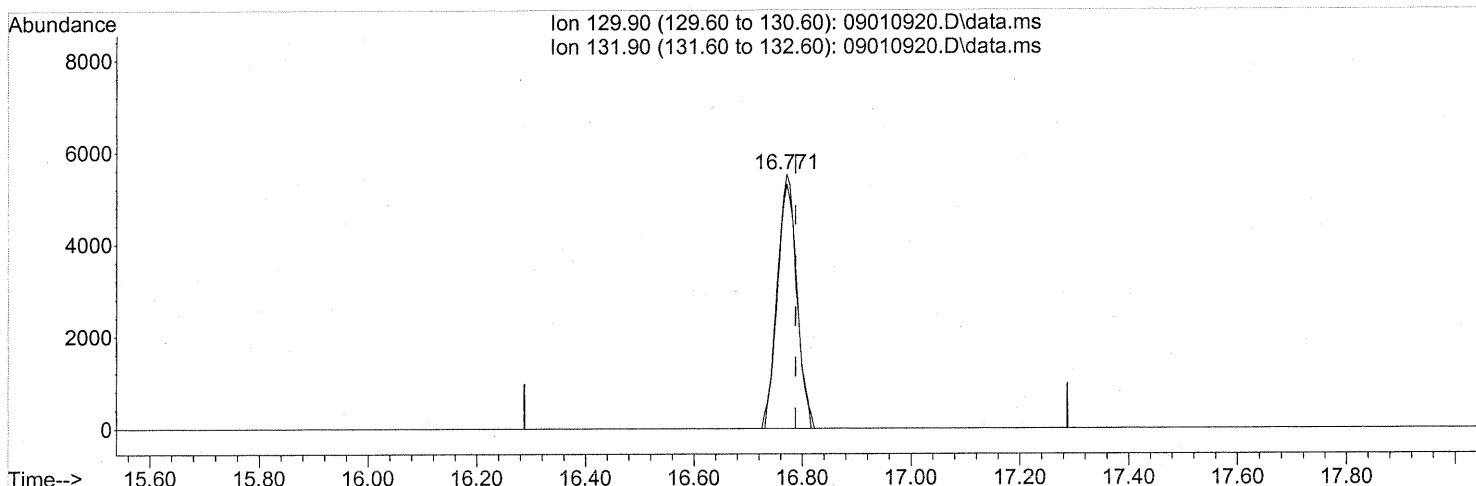
FP em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(47) Trichloroethene (T)

16.771min (-0.017) 0.56ng

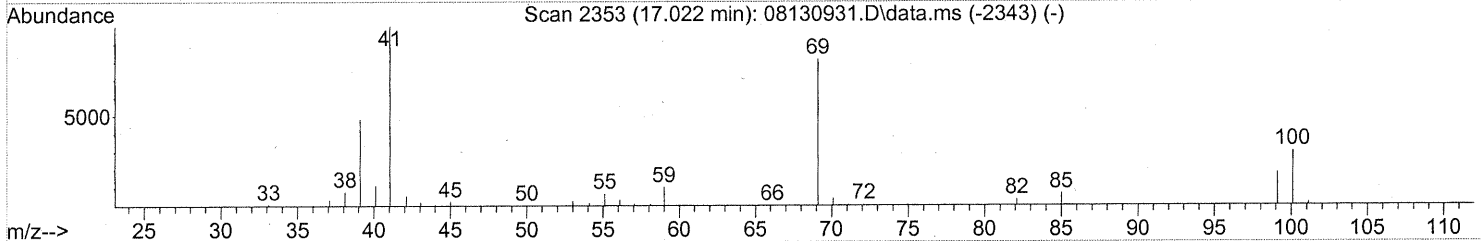
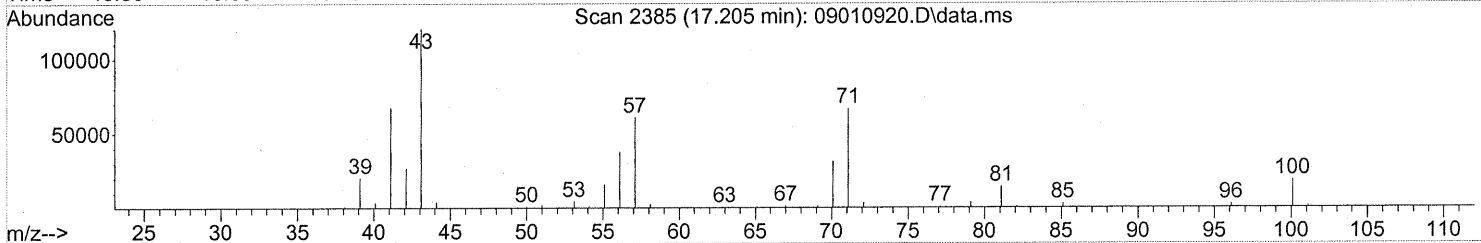
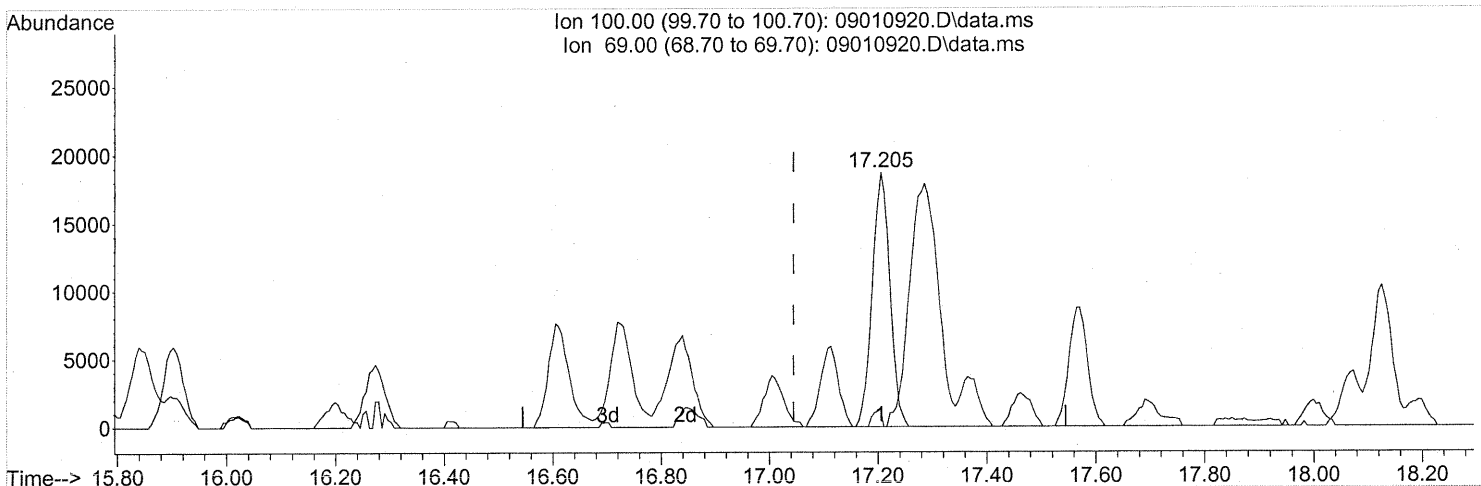
response 13746

Ion	Exp%	Act%
129.90	100	100
131.90	95.60	96.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(50) Methyl Methacrylate (T)

17.205min (+0.160) 4.39ng

response 42075

Ion	Exp%	Act%
100.00	100	100
69.00	261.10	3.35#
0.00	0.00	0.00
0.00	0.00	0.00

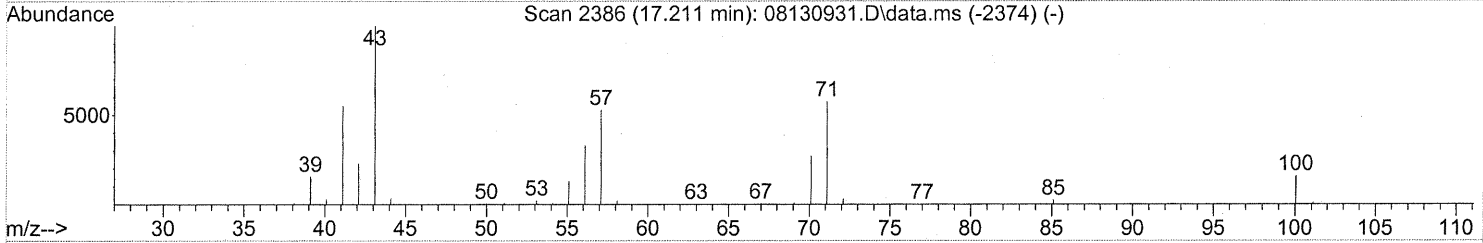
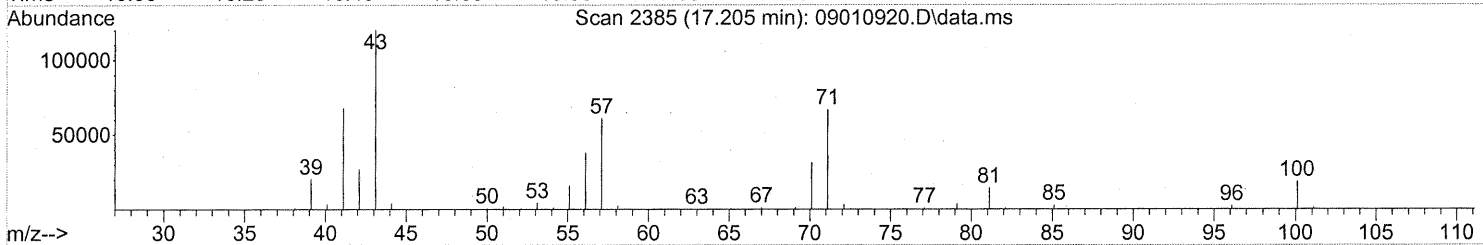
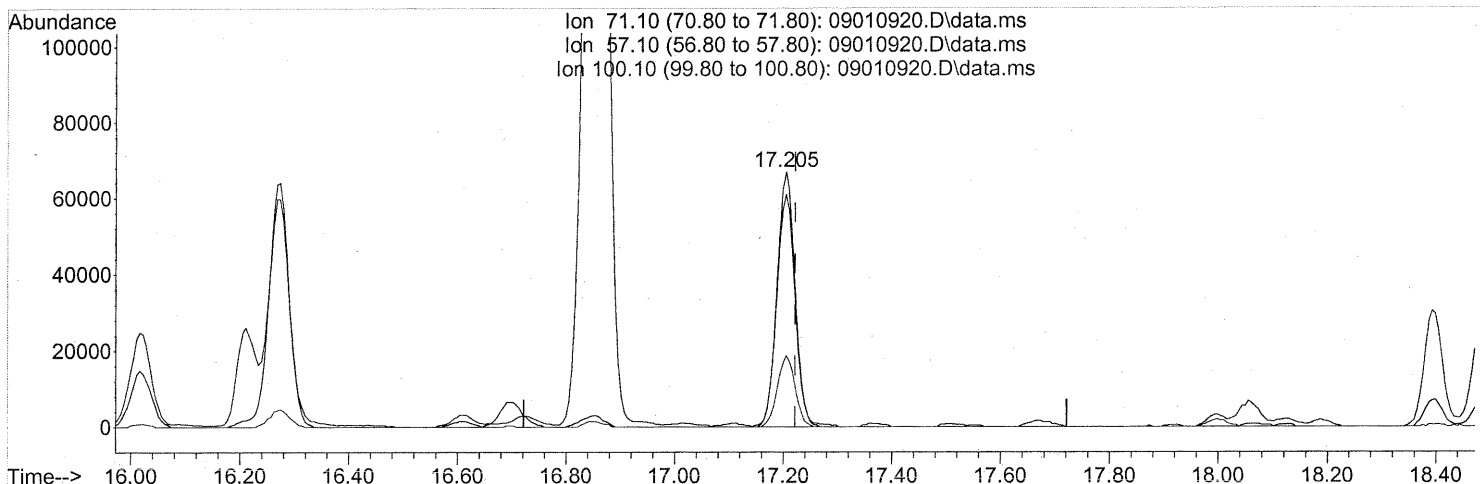
FP em 9/8/09

129/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(51) n-Heptane (T)

17.205min (-0.017) 5.99ng

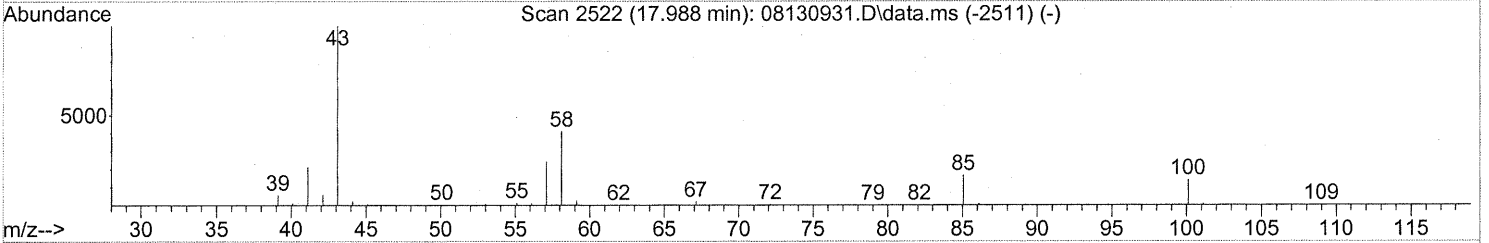
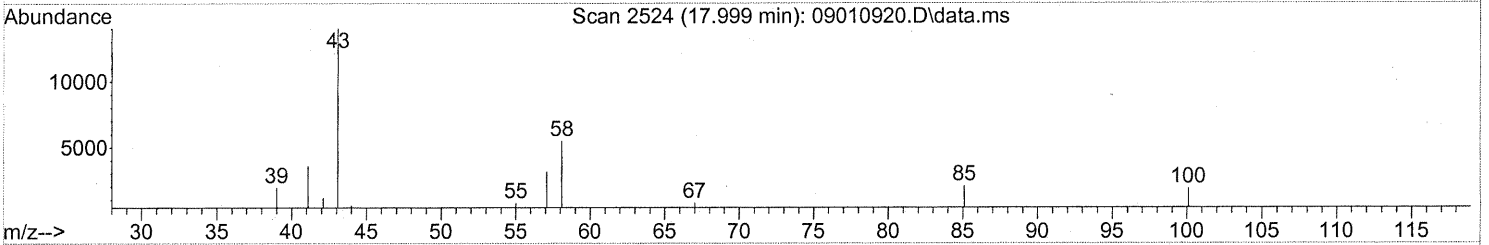
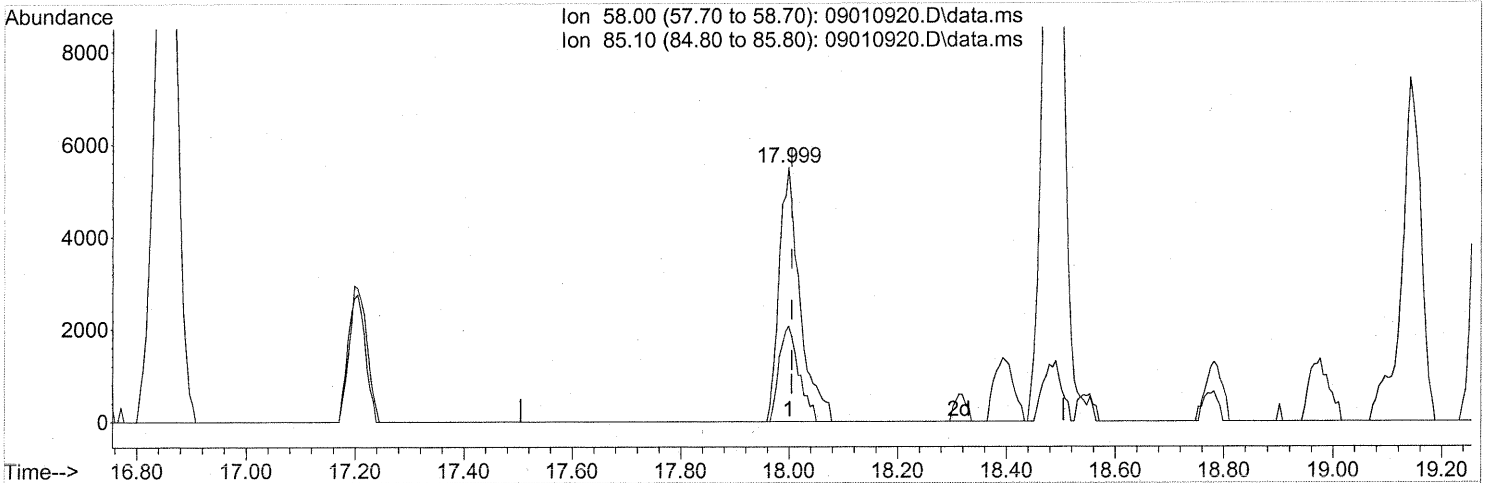
response 152742

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	93.91
100.10	30.70	27.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

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

17.999min (-0.006) 0.71ng

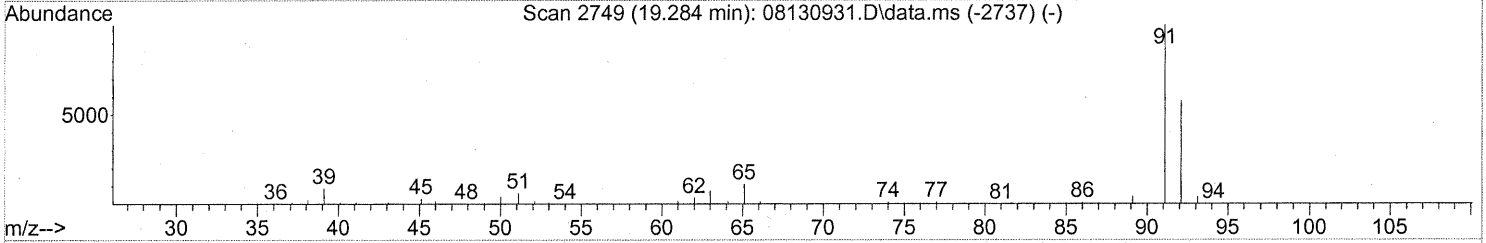
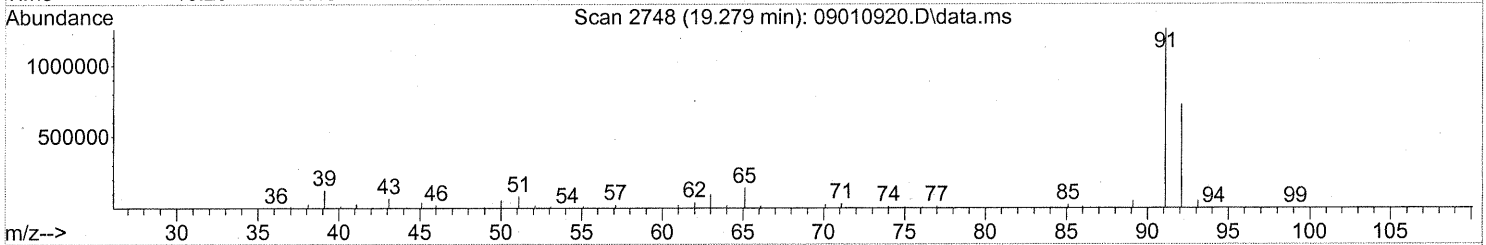
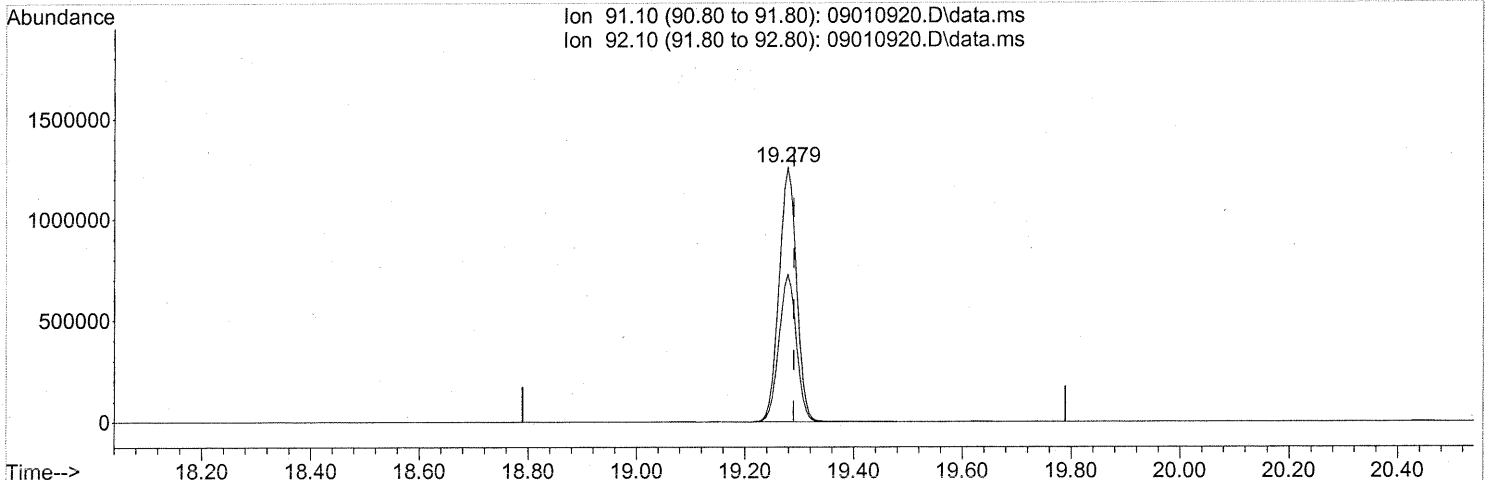
response 14643

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	35.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
Data File : 09010920.D
Acq On : 1 Sep 2009 22:37
Operator : EM
Sample : P0902975-002 (1000ml)
Misc : Environmental H & E 103994
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA 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: 09010920.D\data.ms

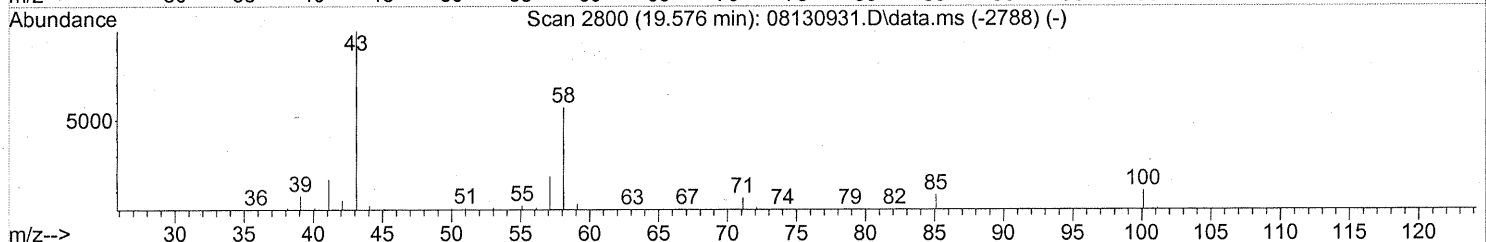
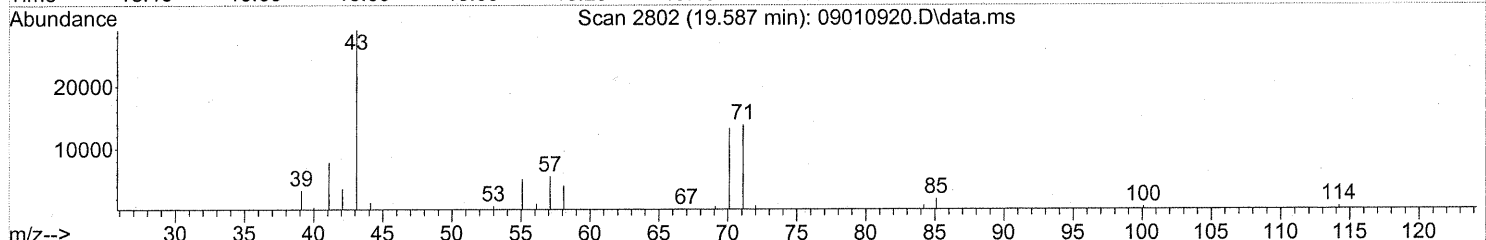
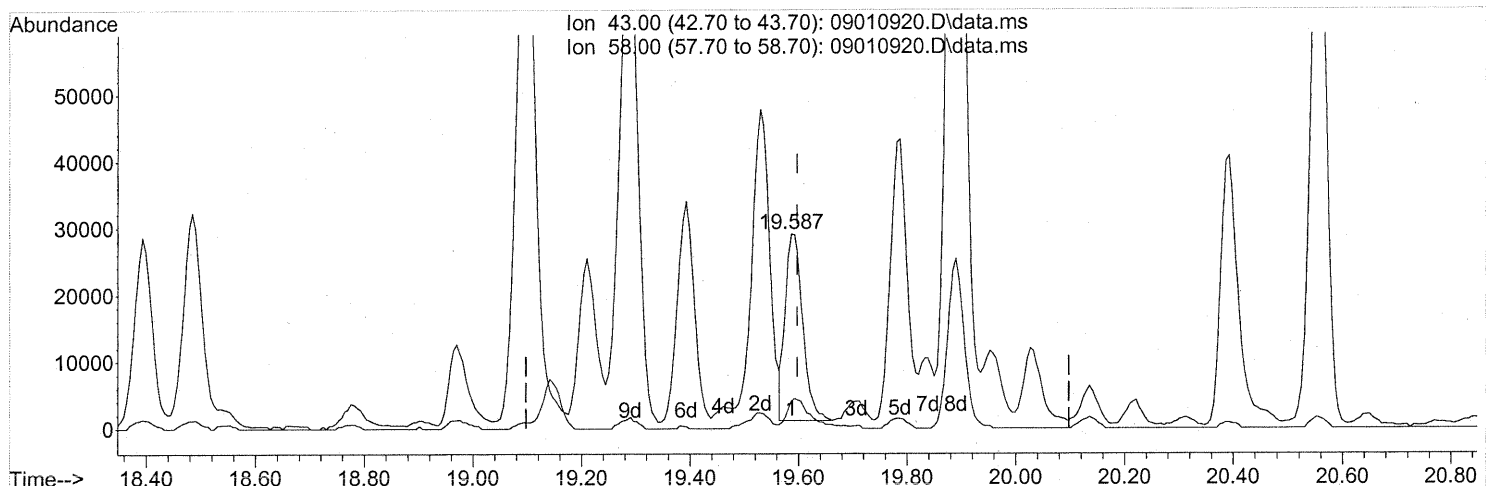
(58) Toluene (T)
19.279min (-0.011) 27.78ng
response 2802474

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.587min (-0.011) 1.19ng
 response 62313

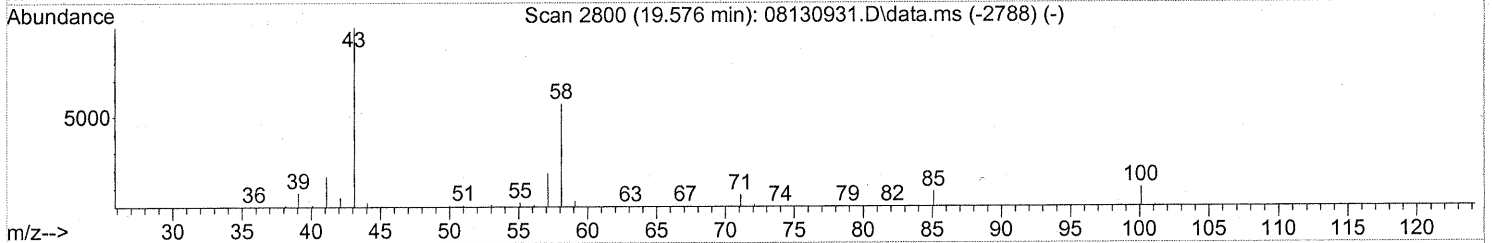
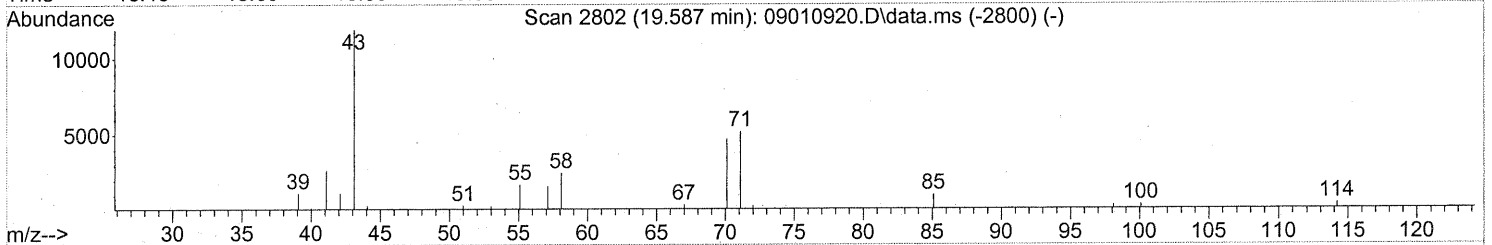
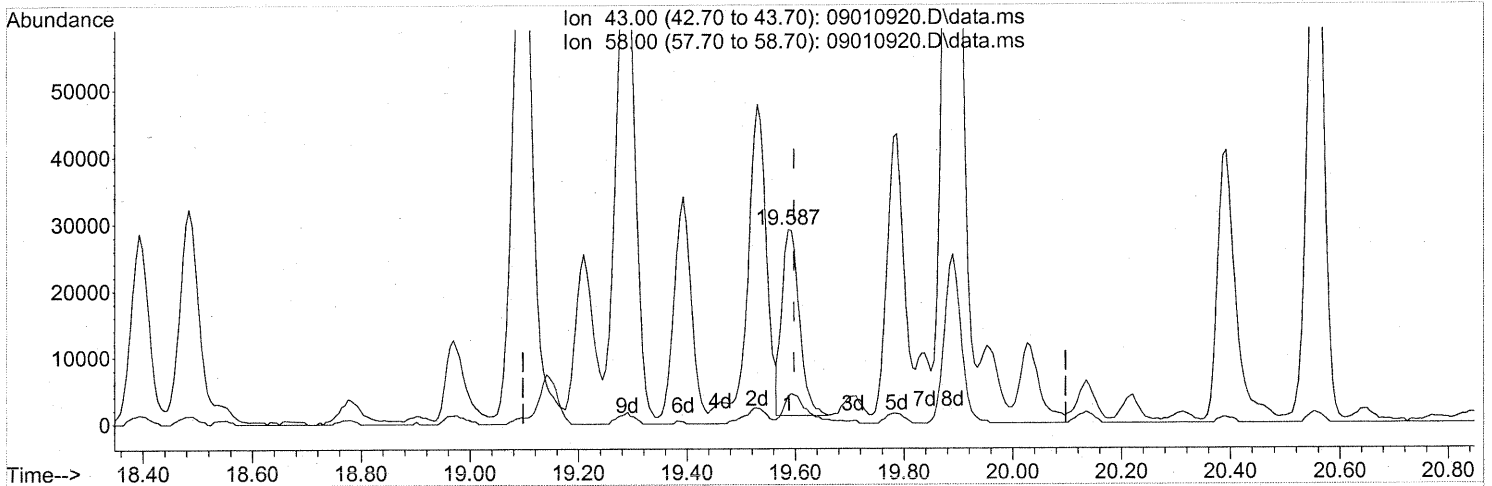
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	21.67#
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 02 07:51:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(59) 2-Hexanone (T)
 19.587min (-0.011) 1.19ng
 response 62313

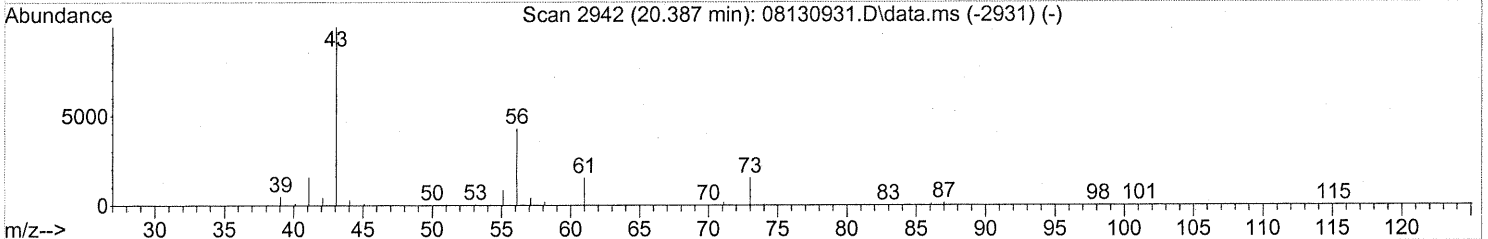
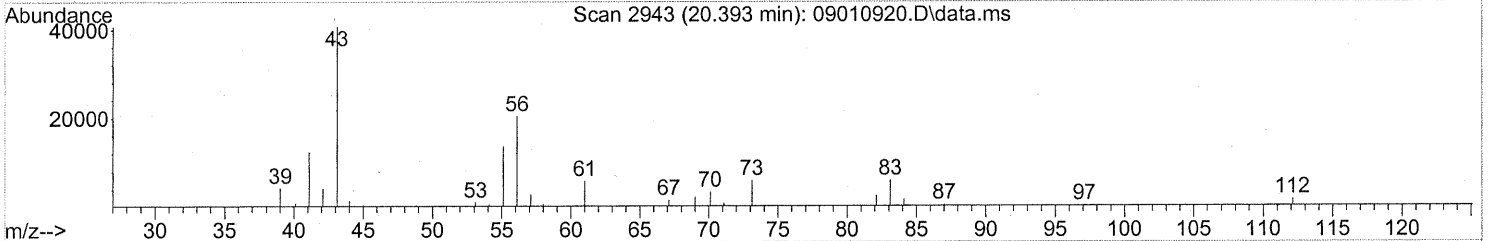
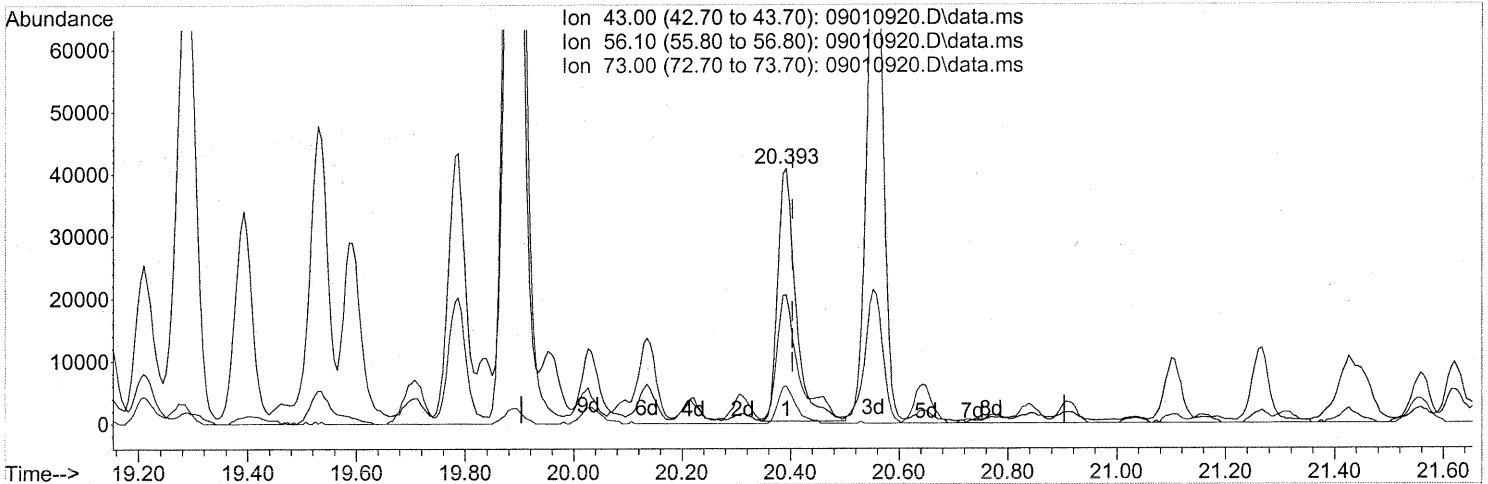
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	21.67#
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 em 9/8/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

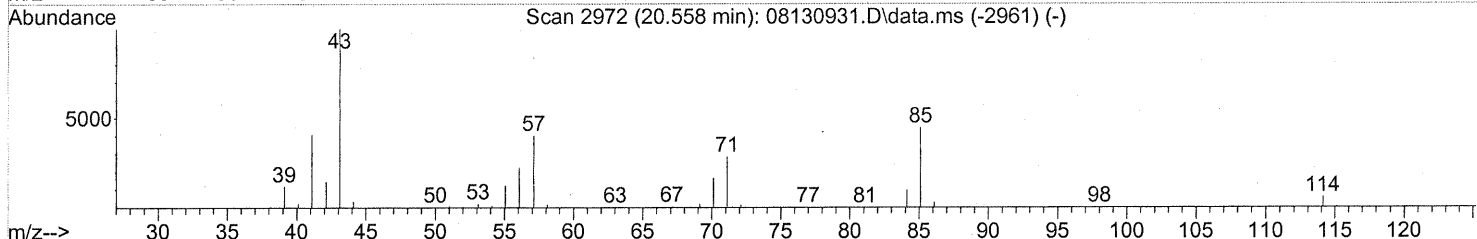
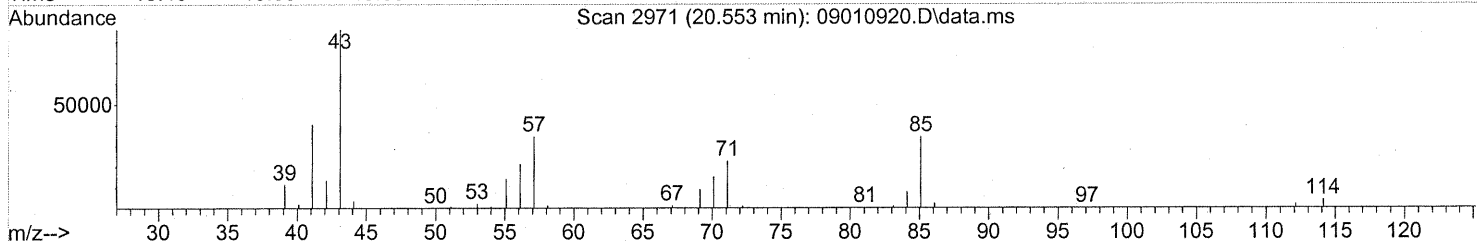
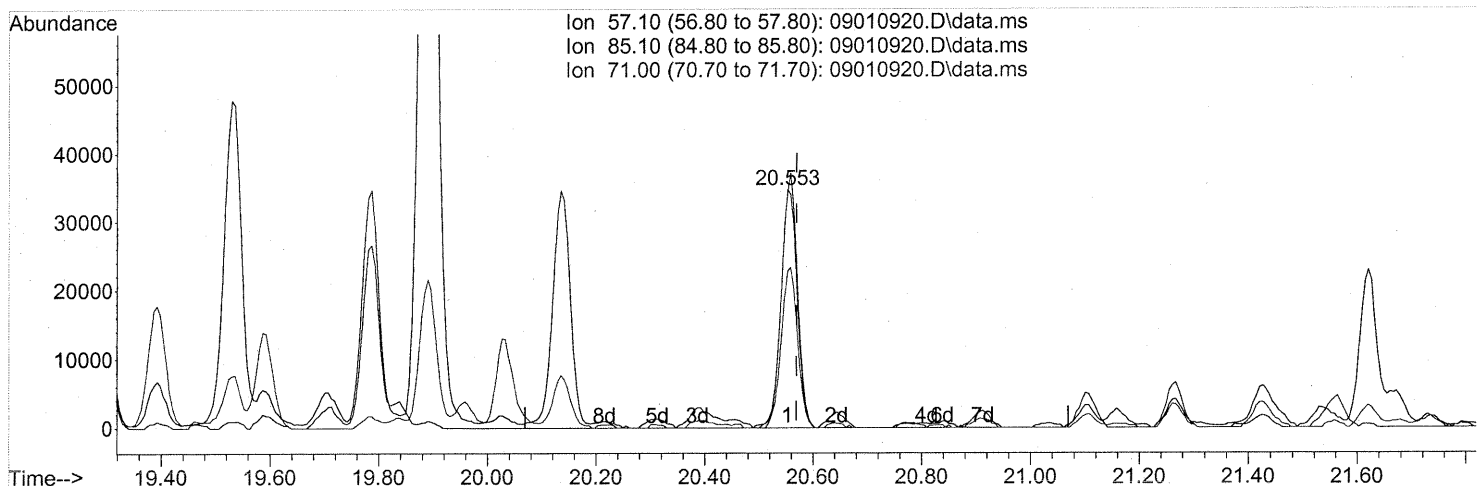
(62) n-Butyl Acetate (T)
 20.393min (-0.011) 1.64ng
 response 93997

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	58.87
73.00	16.90	14.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

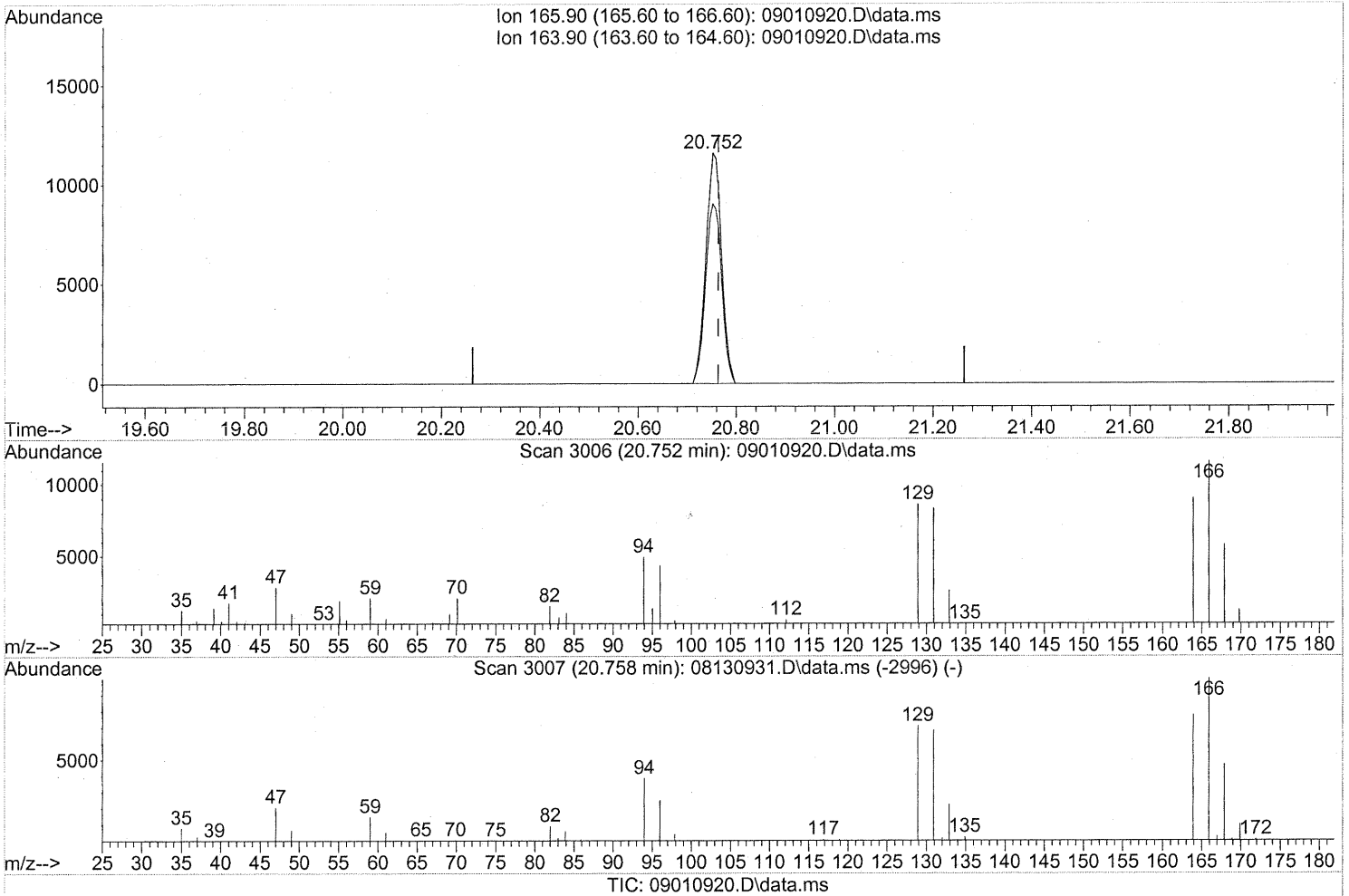
(63) n-Octane (T)
 20.553min (-0.017) 3.23ng
 response 72544

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	103.36
71.00	75.10	67.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
Data File : 09010920.D
Acq On : 1 Sep 2009 22:37
Operator : EM
Sample : P0902975-002 (1000ml)
Misc : Environmental H & E 103994
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.752min (-0.011) 1.03ng

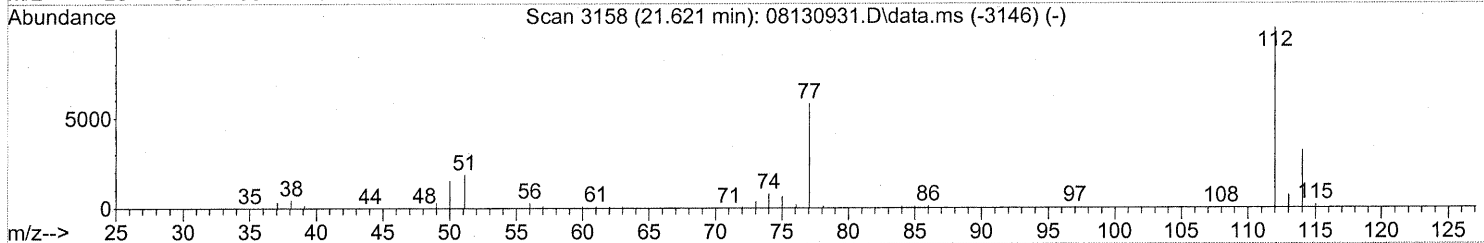
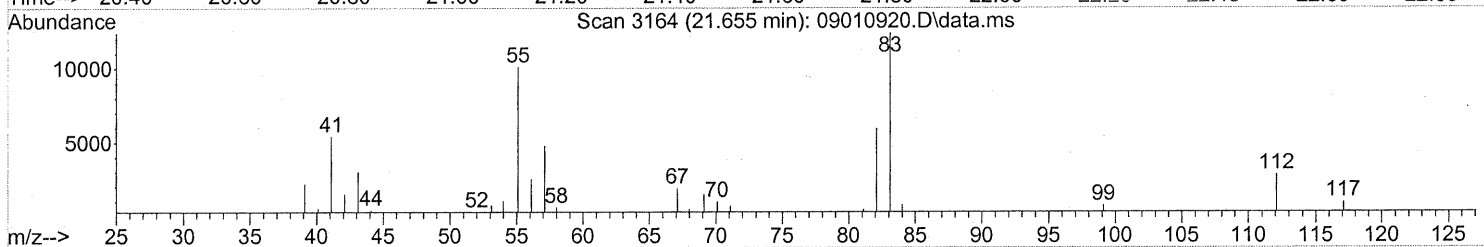
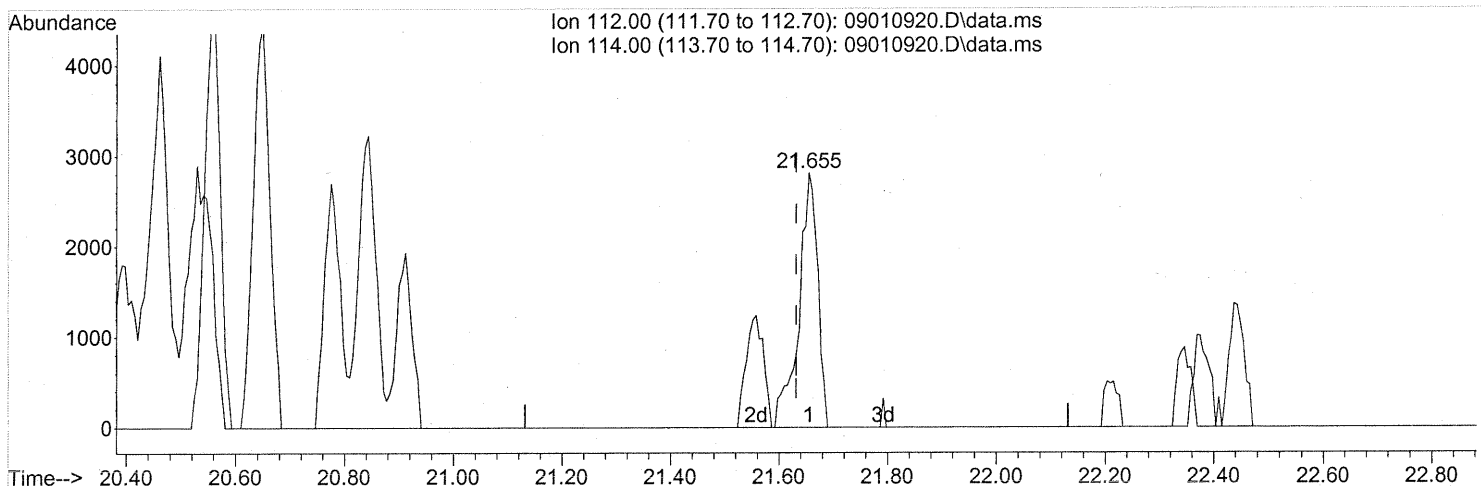
response 25702

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	80.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(65) Chlorobenzene (T)
 21.655min (+0.023) 0.11ng

response 6737

Ion	Exp%	Act%
112.00	100	100
114.00	32.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

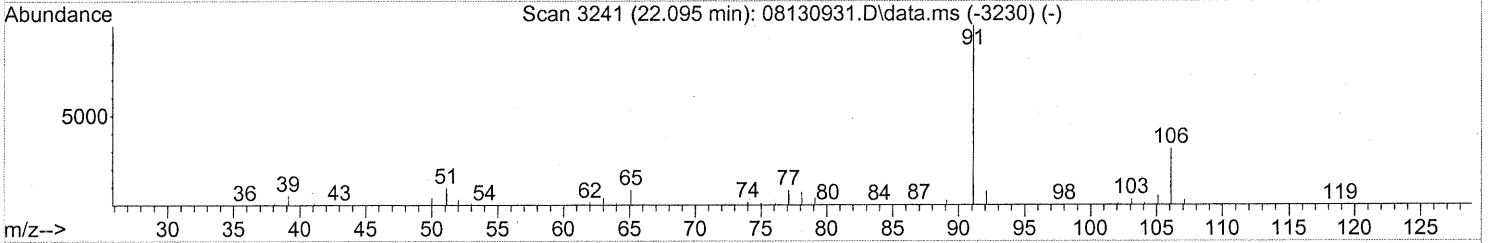
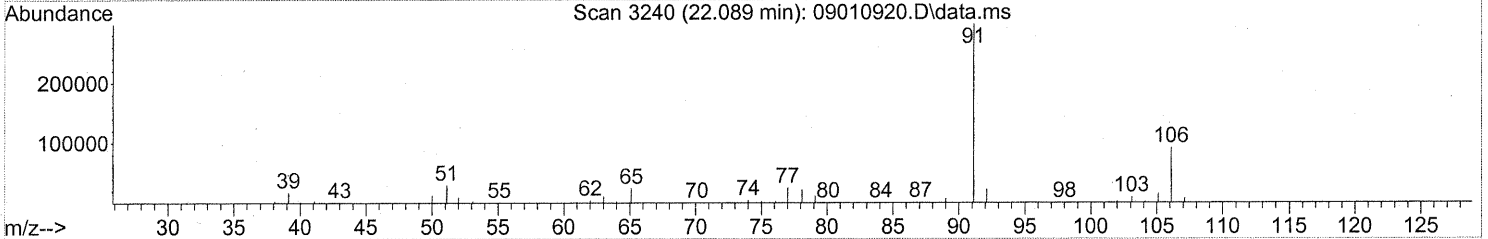
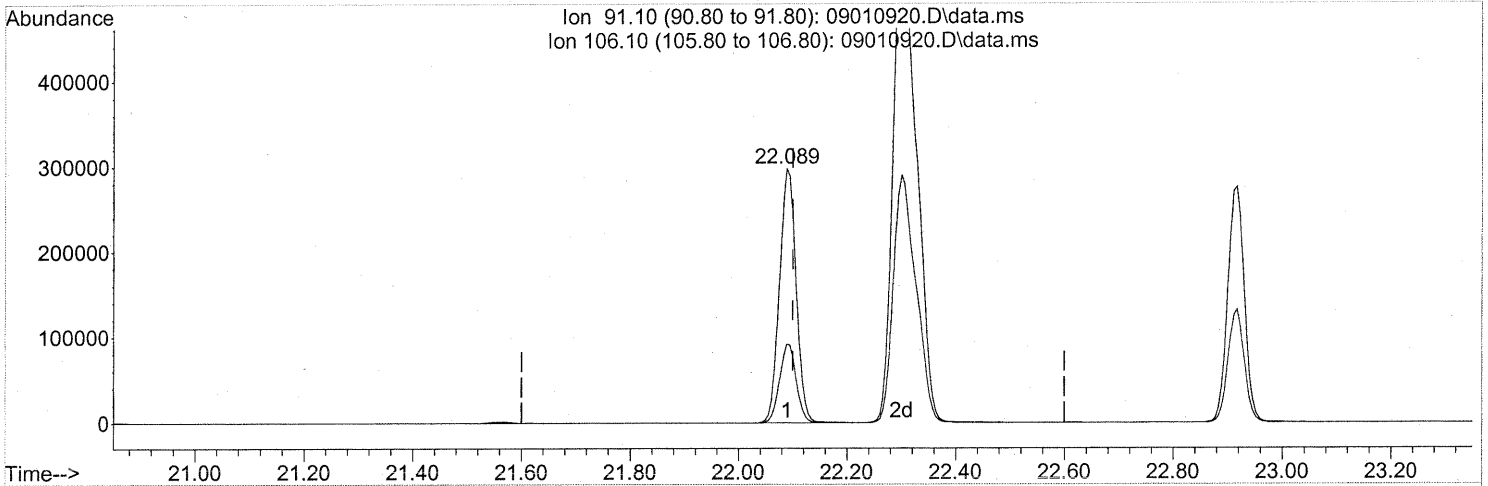
FP em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

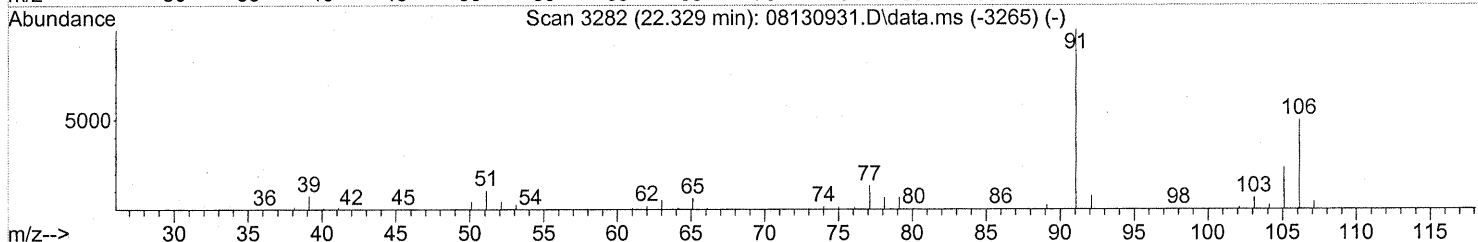
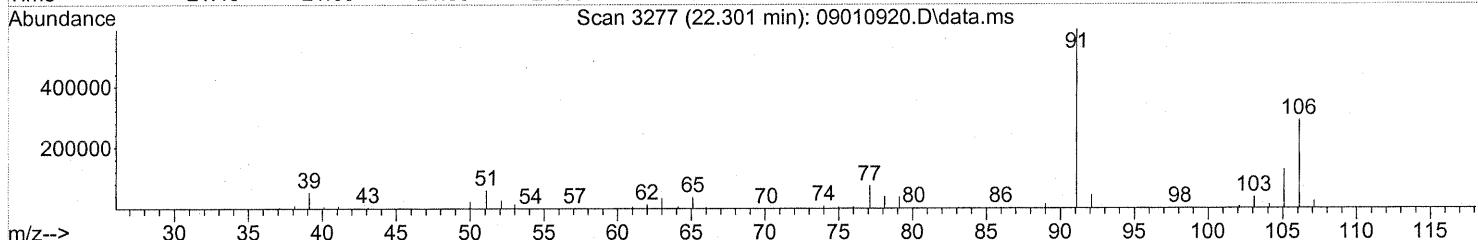
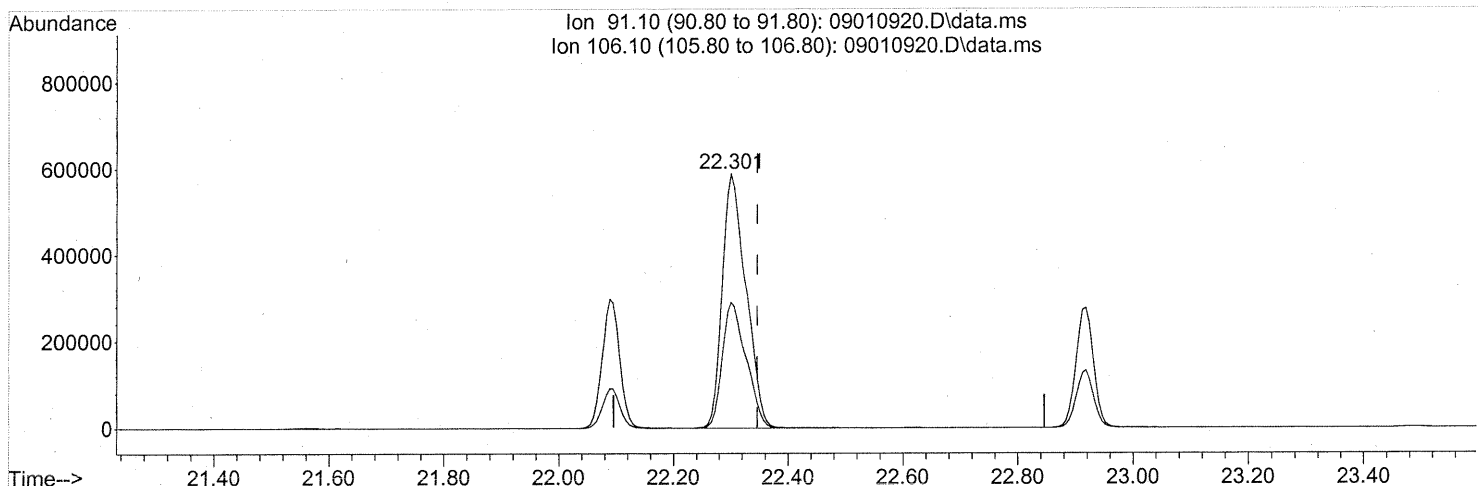
(66) Ethylbenzene (T)
 22.089min (-0.011) 5.78ng
 response 629658

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

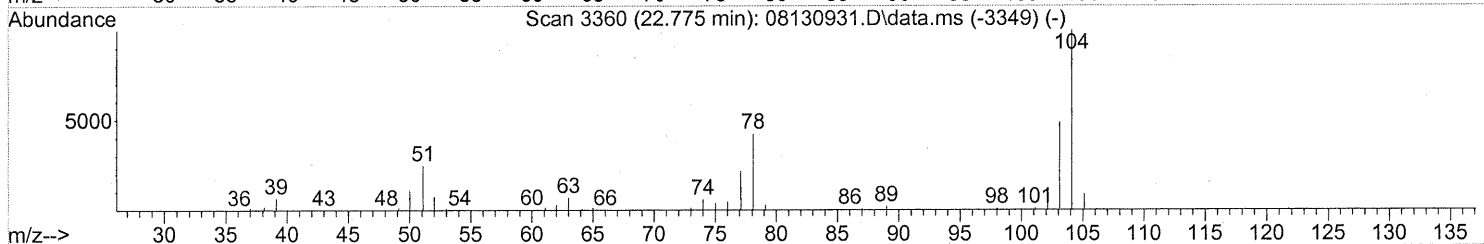
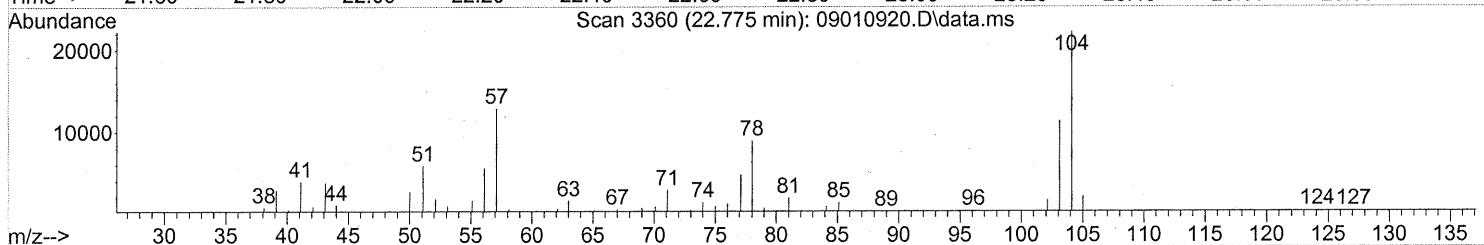
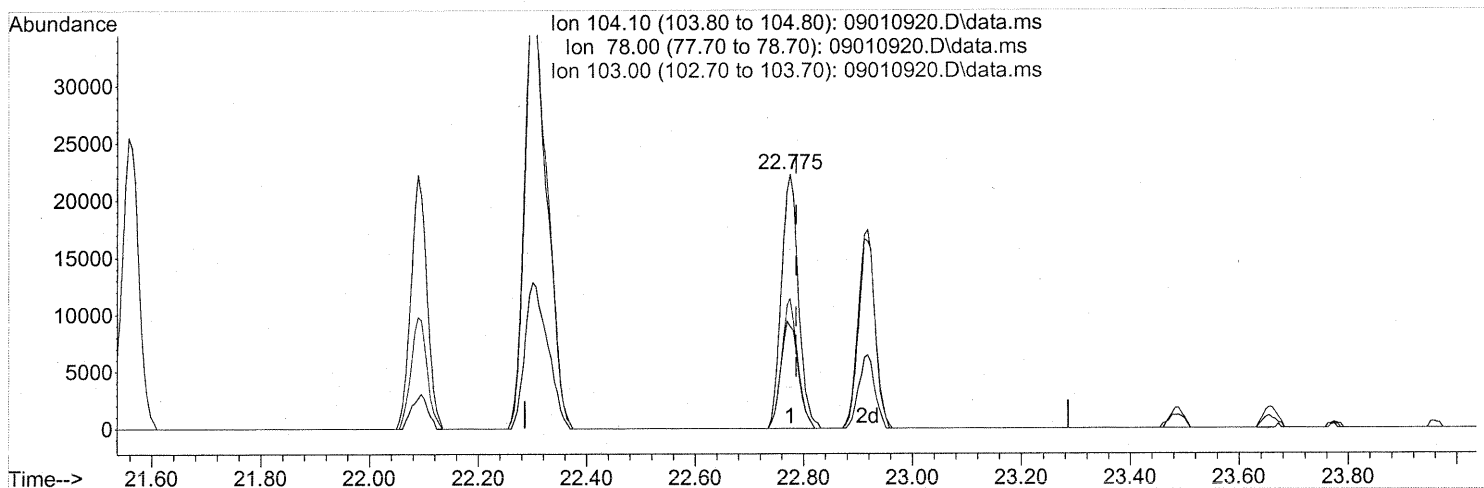
(67) m- & p-Xylenes (T)
 22.301min (-0.046) 19.45ng
 response 1679525

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

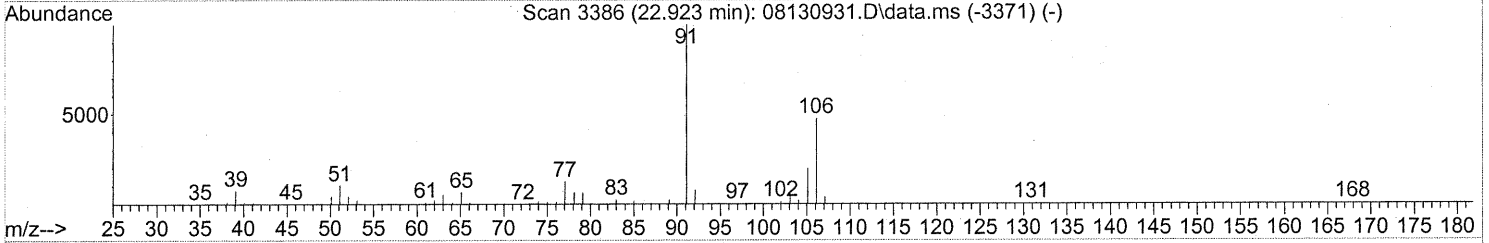
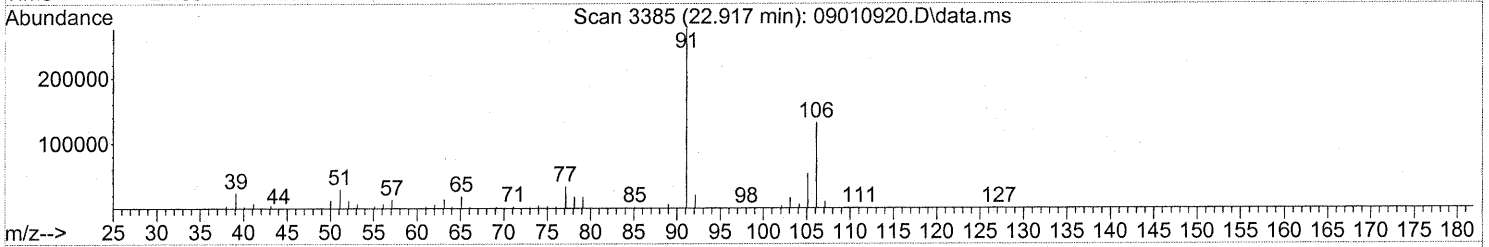
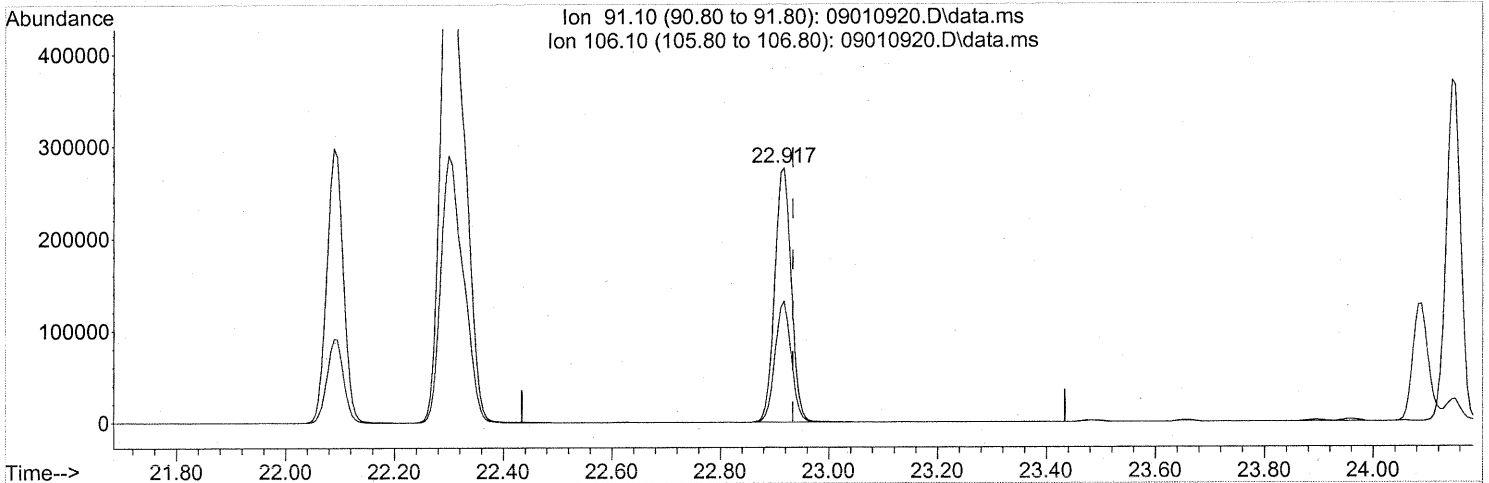
(69) Styrene (T)
 22.775min (-0.011) 0.75ng
 response 48191

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	42.98
103.00	48.70	48.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(70) o-Xylene (T)

22.917min (-0.017) 6.71ng

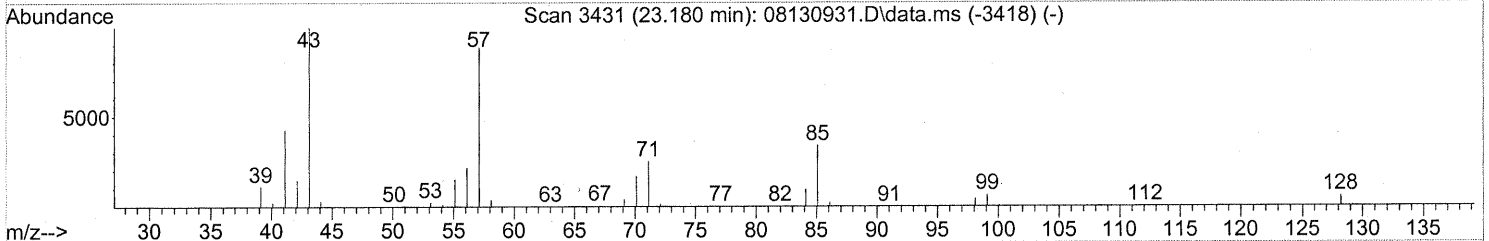
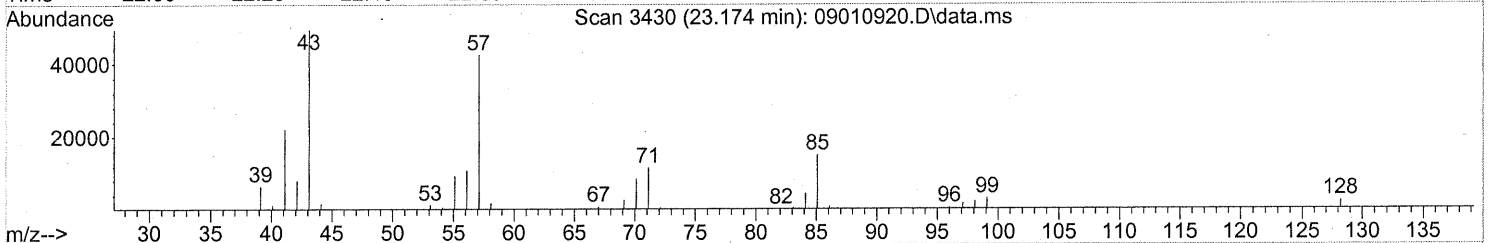
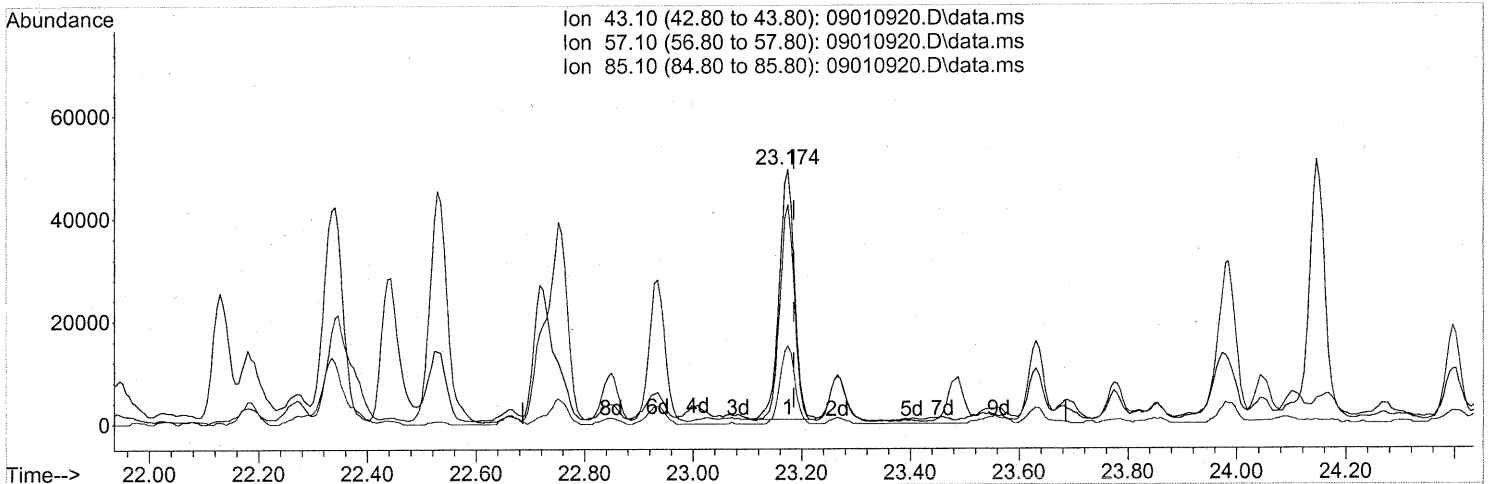
response 583306

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

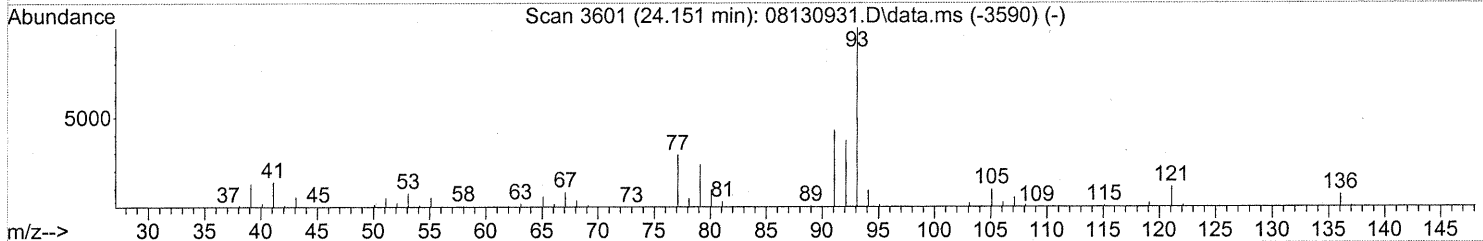
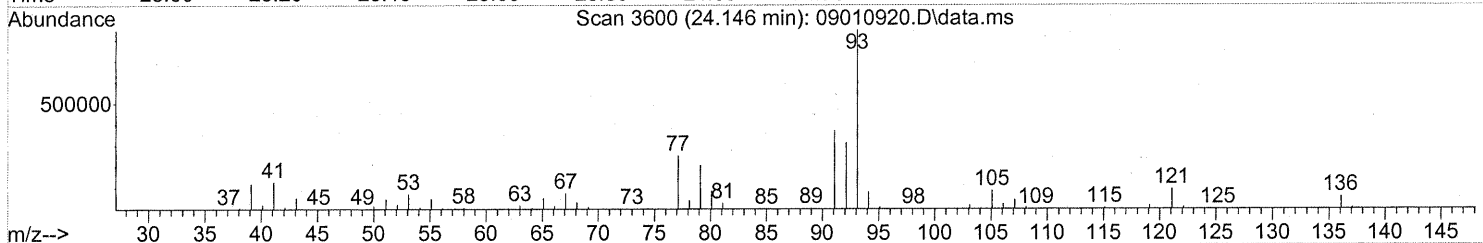
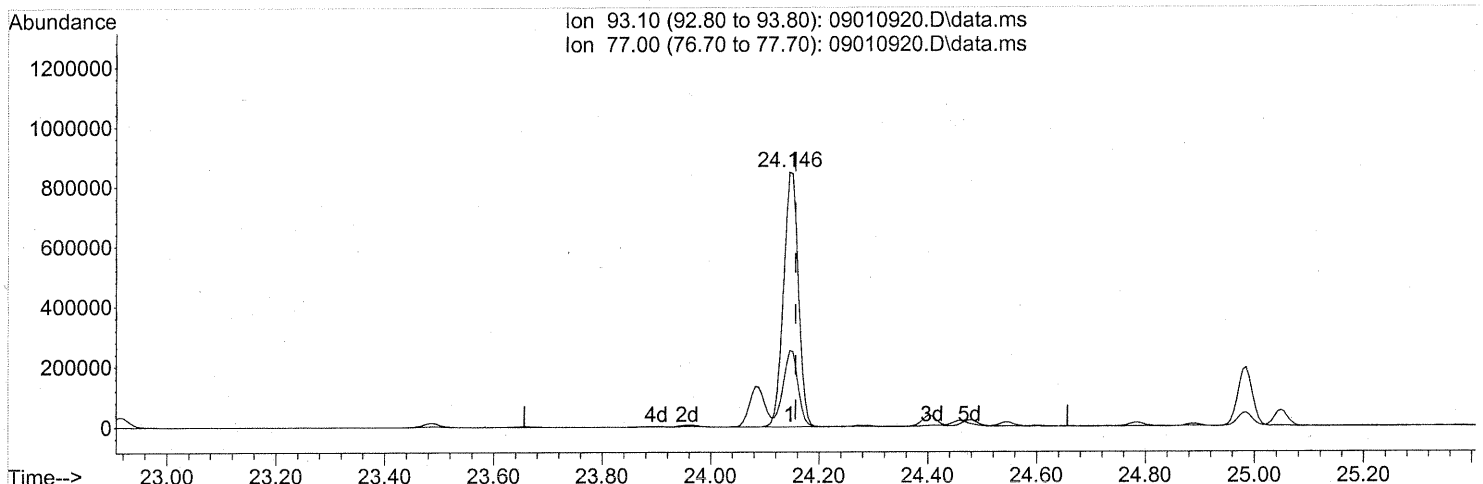
(71) n-Nonane (T)
 23.174min (-0.011) 1.84ng
 response 96082

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	82.78
85.10	38.80	30.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

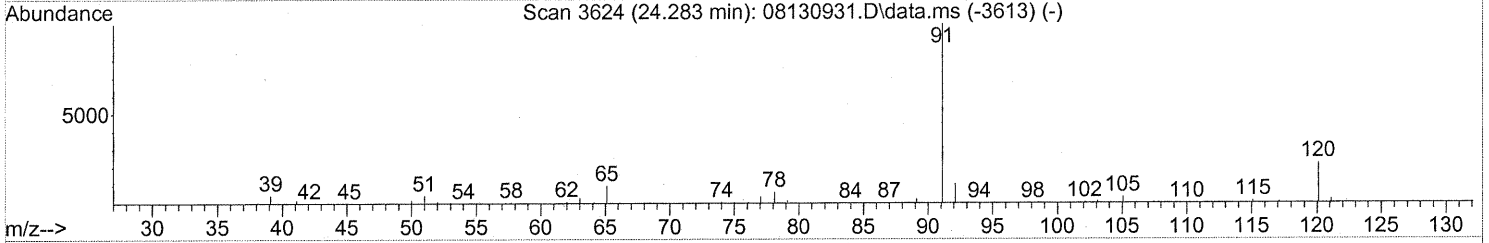
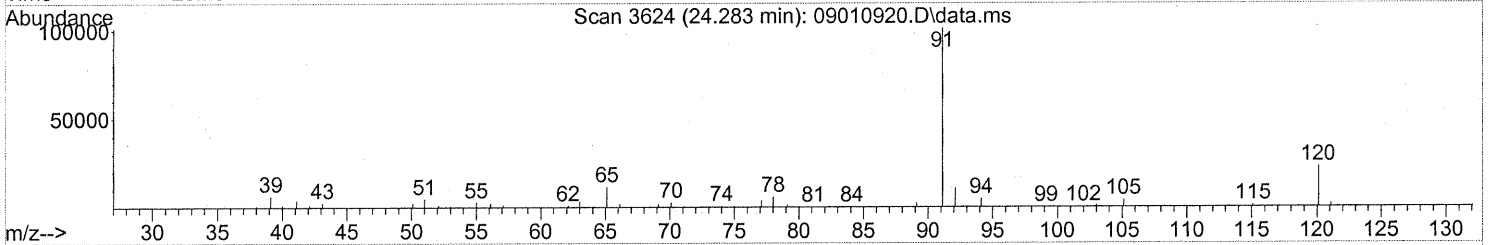
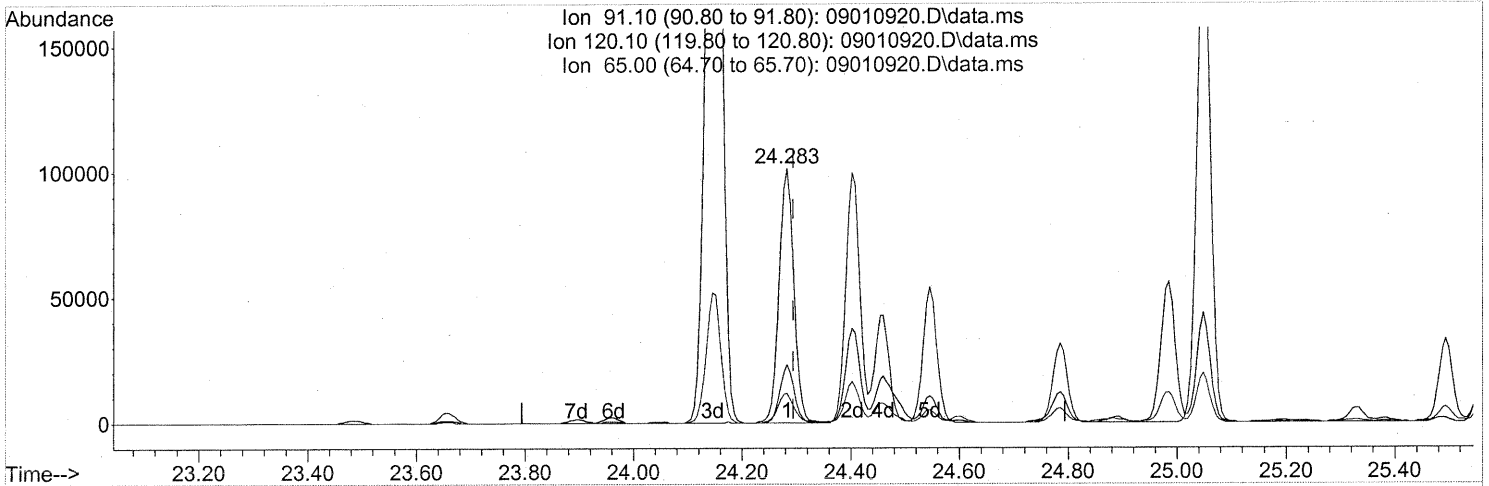
(75) alpha-Pinene (T)
 24.146min (-0.011) 28.99ng
 response 1611295

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

(76) n-Propylbenzene (T)

24.283min (-0.011) 1.37ng

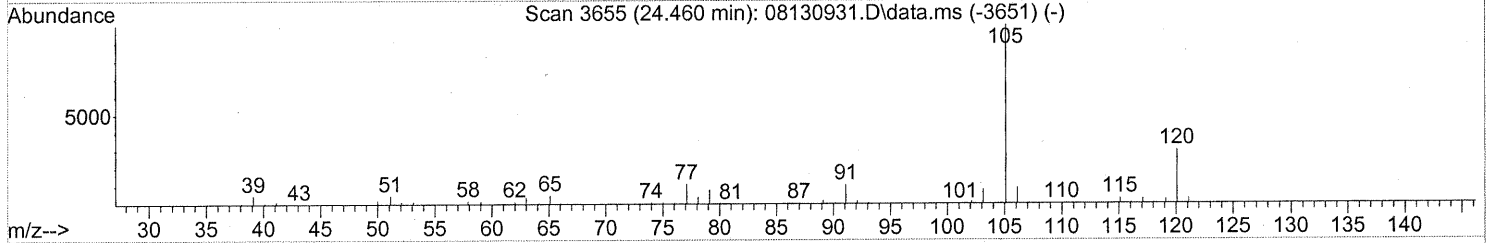
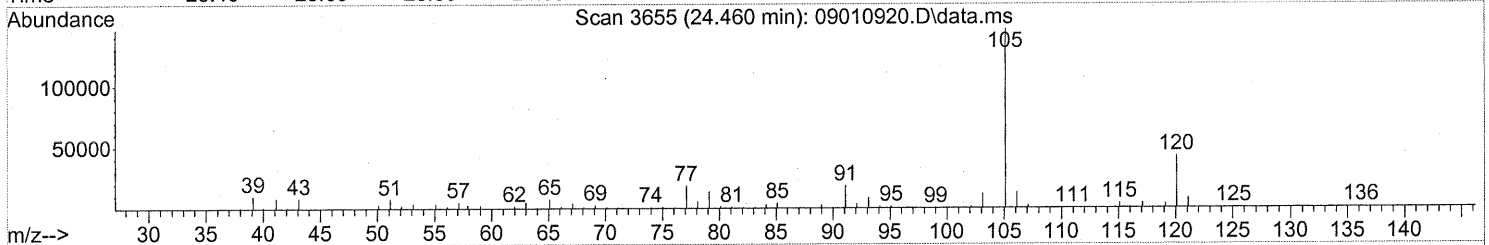
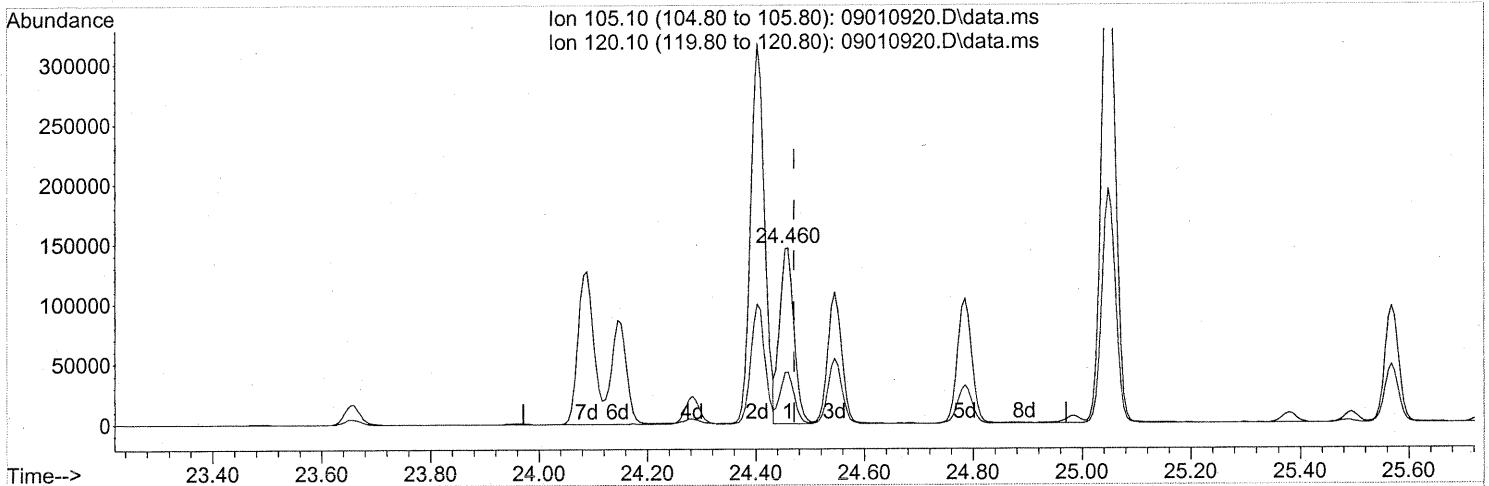
response 190694

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	21.83
65.00	10.20	12.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

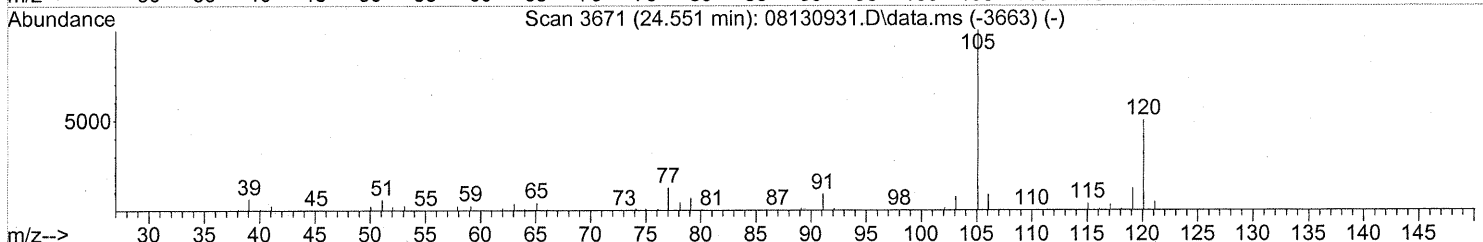
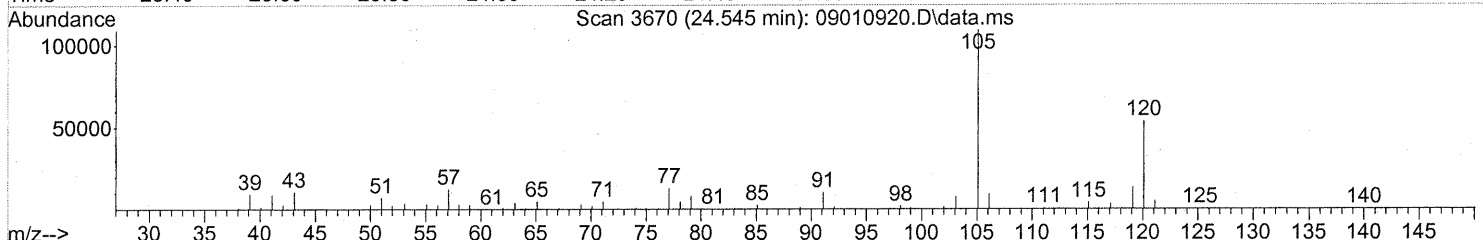
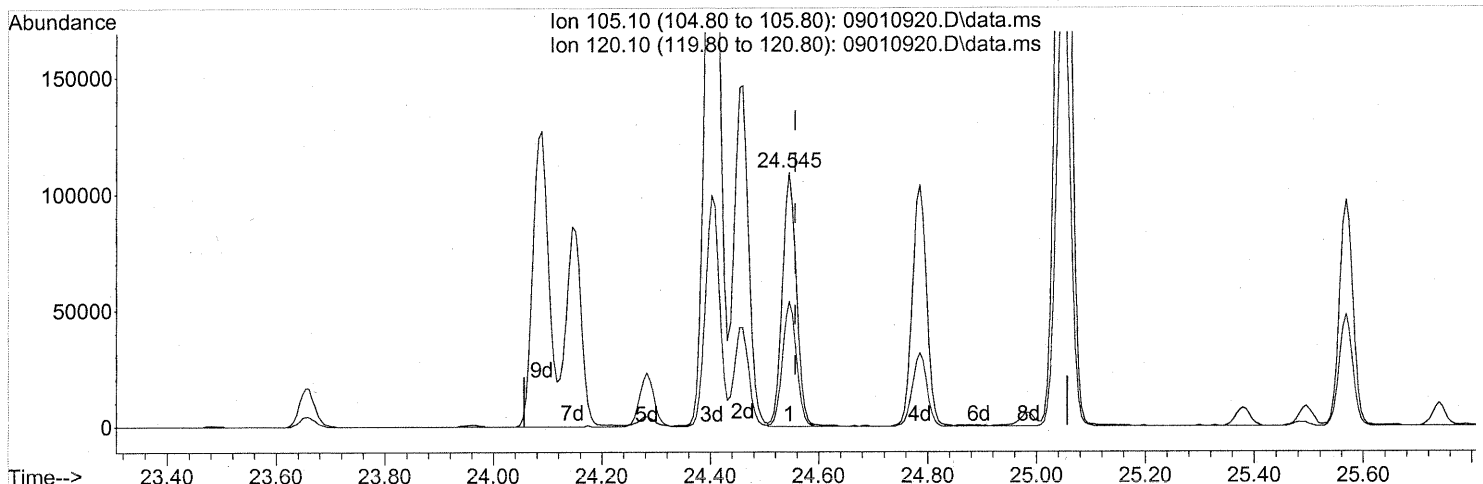
(78) 4-Ethyltoluene (T)
 24.460min (-0.011) 2.55ng
 response 270085

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	29.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

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

24.545min (-0.011) 2.25ng

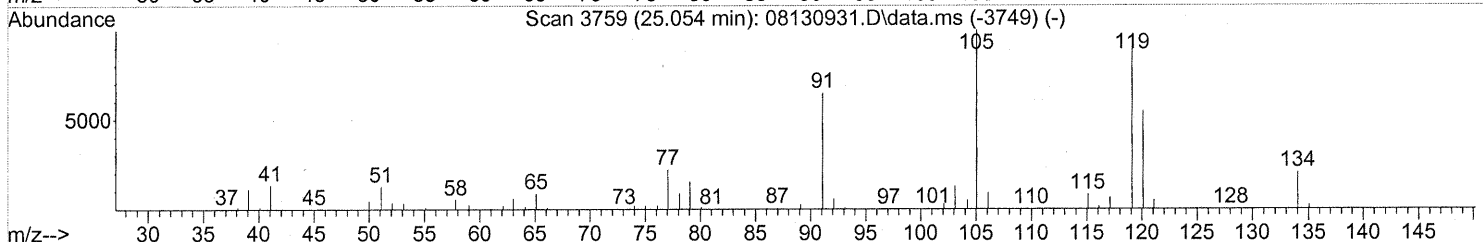
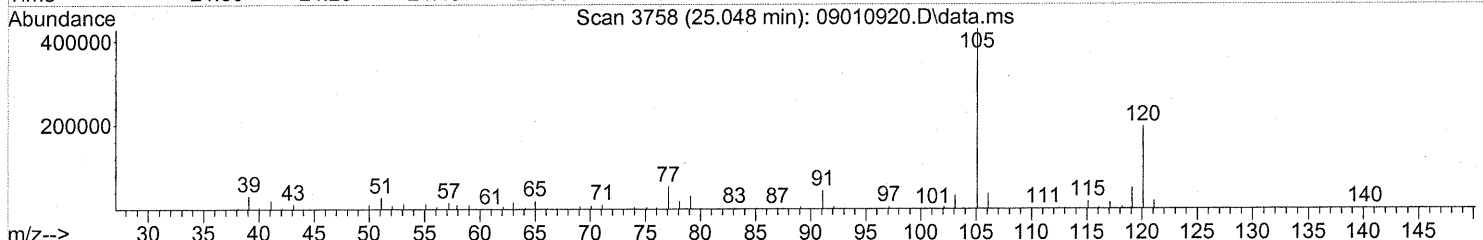
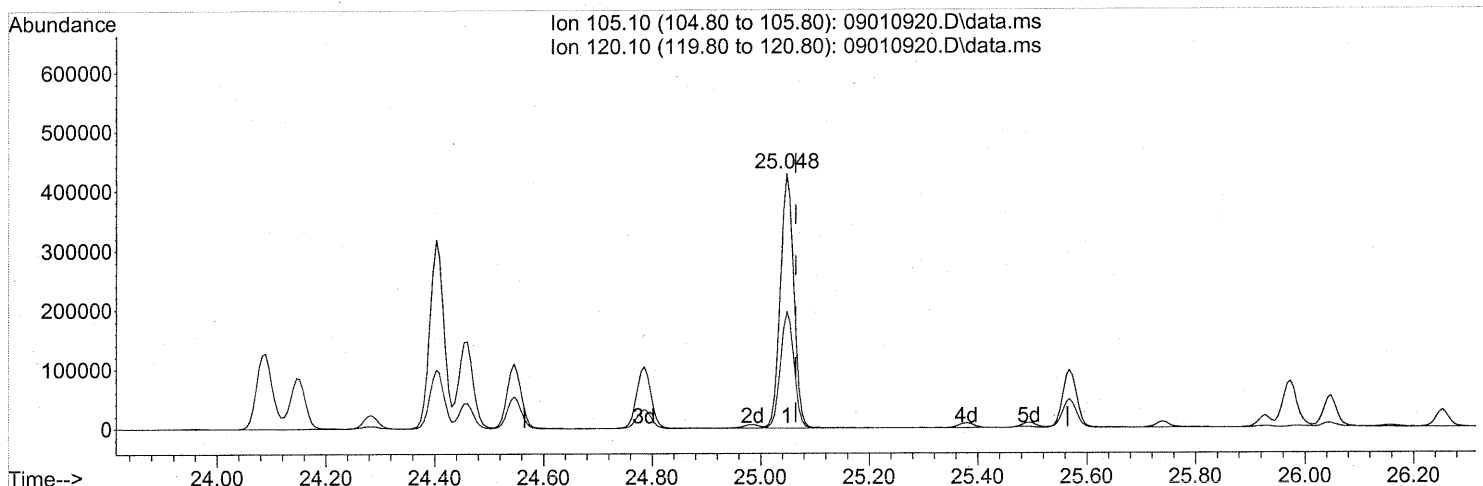
response 197505

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	48.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

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

25.048min (-0.017) 8.00ng

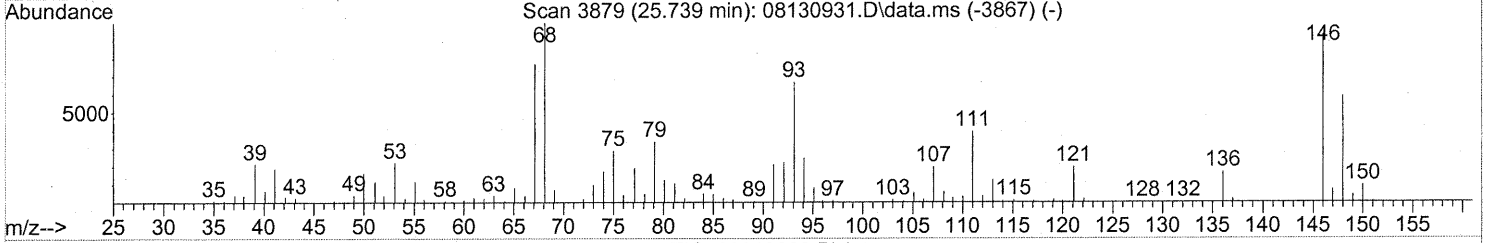
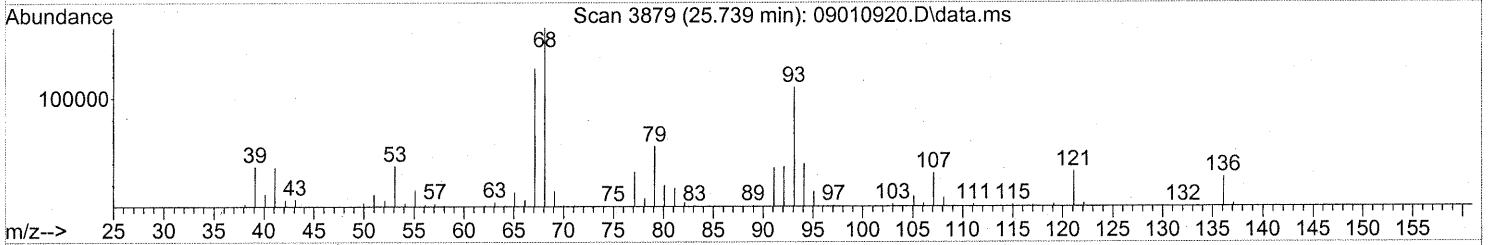
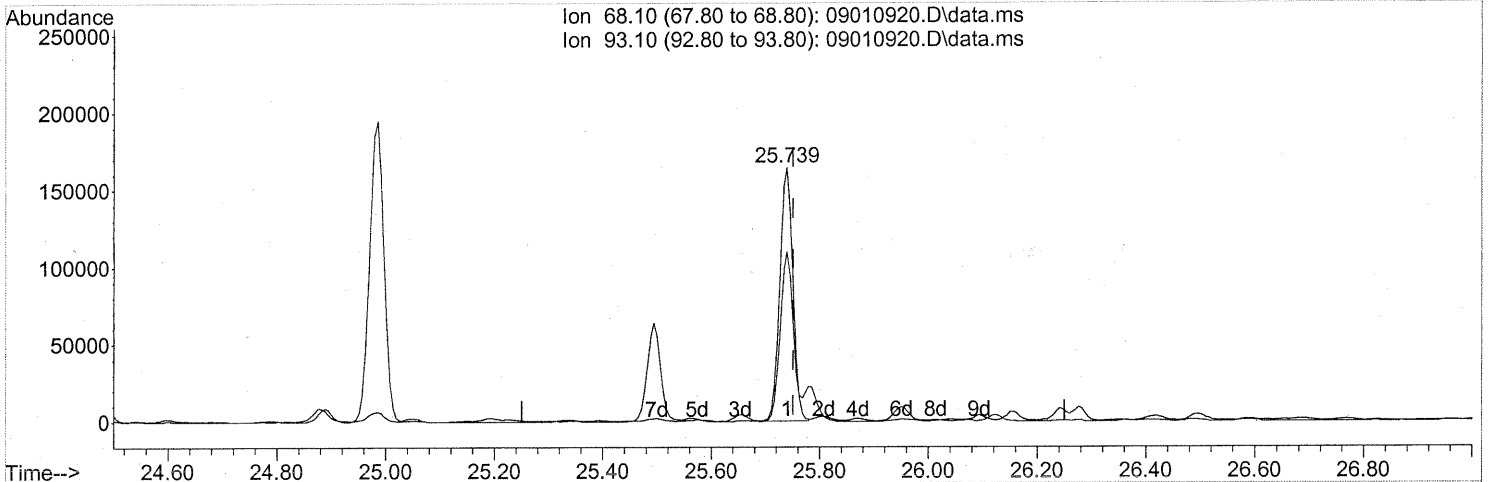
response 745242

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	45.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010920.D
 Acq On : 1 Sep 2009 22:37
 Operator : EM
 Sample : P0902975-002 (1000ml)
 Misc : Environmental H & E 103994
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010920.D\data.ms

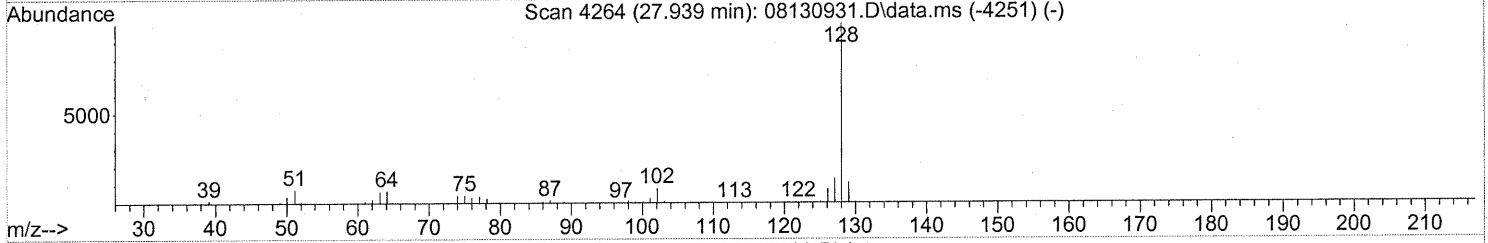
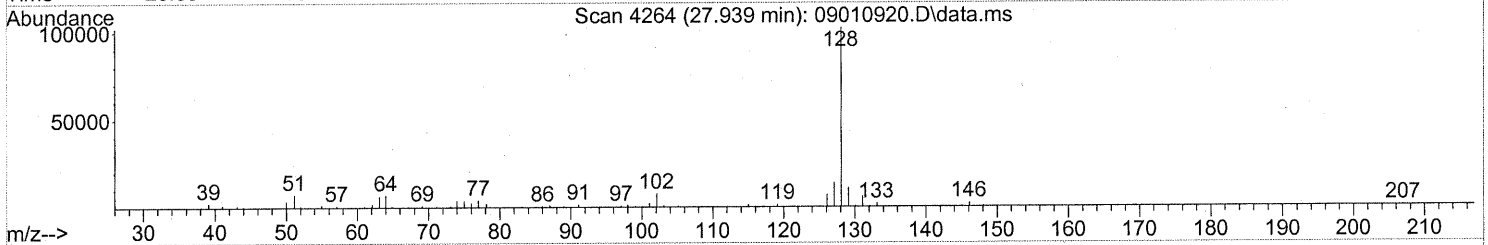
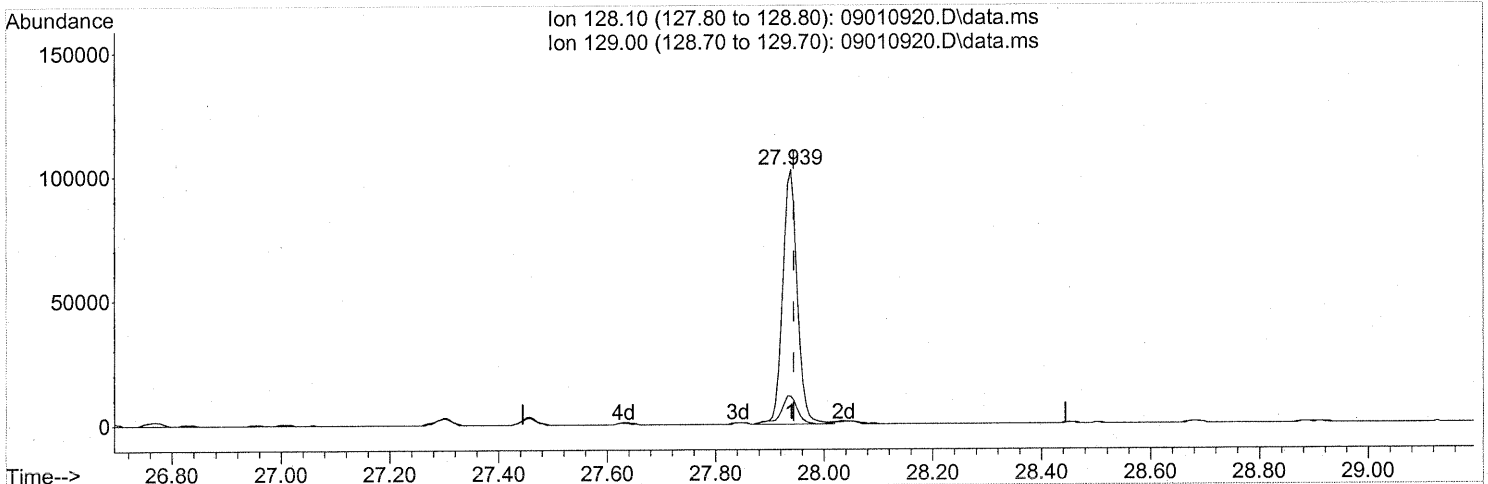
(91) d-Limonene (T)
 25.739min (-0.011) 7.13ng
 response 271548

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	68.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
Data File : 09010920.D
Acq On : 1 Sep 2009 22:37
Operator : EM
Sample : P0902975-002 (1000ml)
Misc : Environmental H & E 103994
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 04 15:42:46 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA 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: 09010920.D\data.ms

(95) Naphthalene (T)
27.939min (-0.006) 1.54ng
response 192267

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	12.26
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: 103995
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: AC01034

CAS Project ID: P0902975
 CAS Sample ID: P0902975-003

Date Collected: 8/25/09
 Date Received: 8/26/09
 Date Analyzed: 9/2/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.8 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.42

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	35	0.71	20	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.71	0.47	0.14	
74-87-3	Chloromethane	0.59	0.14	0.29	0.069	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.71	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.056	
106-99-0	1,3-Butadiene	1.9	0.14	0.86	0.064	
74-83-9	Bromomethane	ND	0.14	ND	0.037	
75-00-3	Chloroethane	ND	0.14	ND	0.054	
64-17-5	Ethanol	640	7.1	340	3.8	
75-05-8	Acetonitrile	270	0.71	160	0.42	E
107-02-8	Acrolein	4.9	0.71	2.1	0.31	
67-64-1	Acetone	77	7.1	32	3.0	
75-69-4	Trichlorofluoromethane	1.2	0.14	0.21	0.025	
67-63-0	2-Propanol (Isopropyl Alcohol)	17	0.71	7.1	0.29	
107-13-1	Acrylonitrile	ND	0.71	ND	0.33	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.036	
75-09-2	Methylene Chloride	2.8	0.71	0.82	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	ND	0.045	
76-13-1	Trichlorotrifluoroethane	0.47	0.14	0.062	0.019	
75-15-0	Carbon Disulfide	ND	0.71	ND	0.23	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.036	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	ND	0.039	
108-05-4	Vinyl Acetate	ND	7.1	ND	2.0	
78-93-3	2-Butanone (MEK)	36	0.71	12	0.24	

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

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

E = Estimated; concentration exceeded calibration range.

Verified By:  Date: 9/10/09 **129**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 103995
Client Project ID: 16512

CAS Project ID: P0902975
 CAS Sample ID: P0902975-003

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: AC01034

Date Collected: 8/25/09
Date Received: 8/26/09
Date Analyzed: 9/2/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.8 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.42

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.036	
141-78-6	Ethyl Acetate	21	1.4	5.7	0.39	
110-54-3	n-Hexane	18	0.71	5.0	0.20	
67-66-3	Chloroform	0.39	0.14	0.080	0.029	
109-99-9	Tetrahydrofuran (THF)	46	0.71	16	0.24	
107-06-2	1,2-Dichloroethane	0.27	0.14	0.067	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.026	
71-43-2	Benzene	13	0.14	4.1	0.044	
56-23-5	Carbon Tetrachloride	0.40	0.14	0.064	0.023	
110-82-7	Cyclohexane	2.0	0.71	0.58	0.21	
78-87-5	1,2-Dichloropropane	0.14	0.14	0.031	0.031	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	0.60	0.14	0.11	0.026	
123-91-1	1,4-Dioxane	ND	0.71	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.35	
142-82-5	n-Heptane	9.5	0.71	2.3	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	ND	0.16	
108-10-1	4-Methyl-2-pentanone	1.0	0.71	0.26	0.17	
10061-02-6	trans-1,3-Dichloropropene	ND	0.71	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	44	0.71	12	0.19	
591-78-6	2-Hexanone	1.7	0.71	0.42	0.17	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	2.4	0.71	0.51	0.15	

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

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

Verified By: _____

Date: _____

9/10/09 **130**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 103995
Client Project ID: 16512

CAS Project ID: P0902975
 CAS Sample ID: P0902975-003

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: AC01034

Date Collected: 8/25/09
Date Received: 8/26/09
Date Analyzed: 9/2/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.8 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.42

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	4.9	0.71	1.1	0.15	
127-18-4	Tetrachloroethene	1.4	0.14	0.21	0.021	
108-90-7	Chlorobenzene	ND	0.14	ND	0.031	
100-41-4	Ethylbenzene	9.2	0.71	2.1	0.16	
179601-23-1	m,p-Xylenes	31	0.71	7.1	0.16	
75-25-2	Bromoform	ND	0.71	ND	0.069	
100-42-5	Styrene	1.2	0.71	0.29	0.17	
95-47-6	o-Xylene	11	0.71	2.4	0.16	
111-84-2	n-Nonane	2.8	0.71	0.53	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.021	
98-82-8	Cumene	ND	0.71	ND	0.14	
80-56-8	alpha-Pinene	48	0.71	8.7	0.13	
103-65-1	n-Propylbenzene	2.2	0.71	0.44	0.14	
622-96-8	4-Ethyltoluene	4.0	0.71	0.82	0.14	
108-67-8	1,3,5-Trimethylbenzene	3.6	0.71	0.72	0.14	
95-63-6	1,2,4-Trimethylbenzene	13	0.71	2.6	0.14	
100-44-7	Benzyl Chloride	ND	0.14	ND	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.14	ND	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.14	ND	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.14	ND	0.024	
5989-27-5	d-Limonene	15	0.71	2.6	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.71	ND	0.073	
120-82-1	1,2,4-Trichlorobenzene	ND	0.71	ND	0.096	
91-20-3	Naphthalene	2.4	0.71	0.47	0.14	
87-68-3	Hexachlorobutadiene	ND	0.71	ND	0.067	

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

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

Verified By: _____

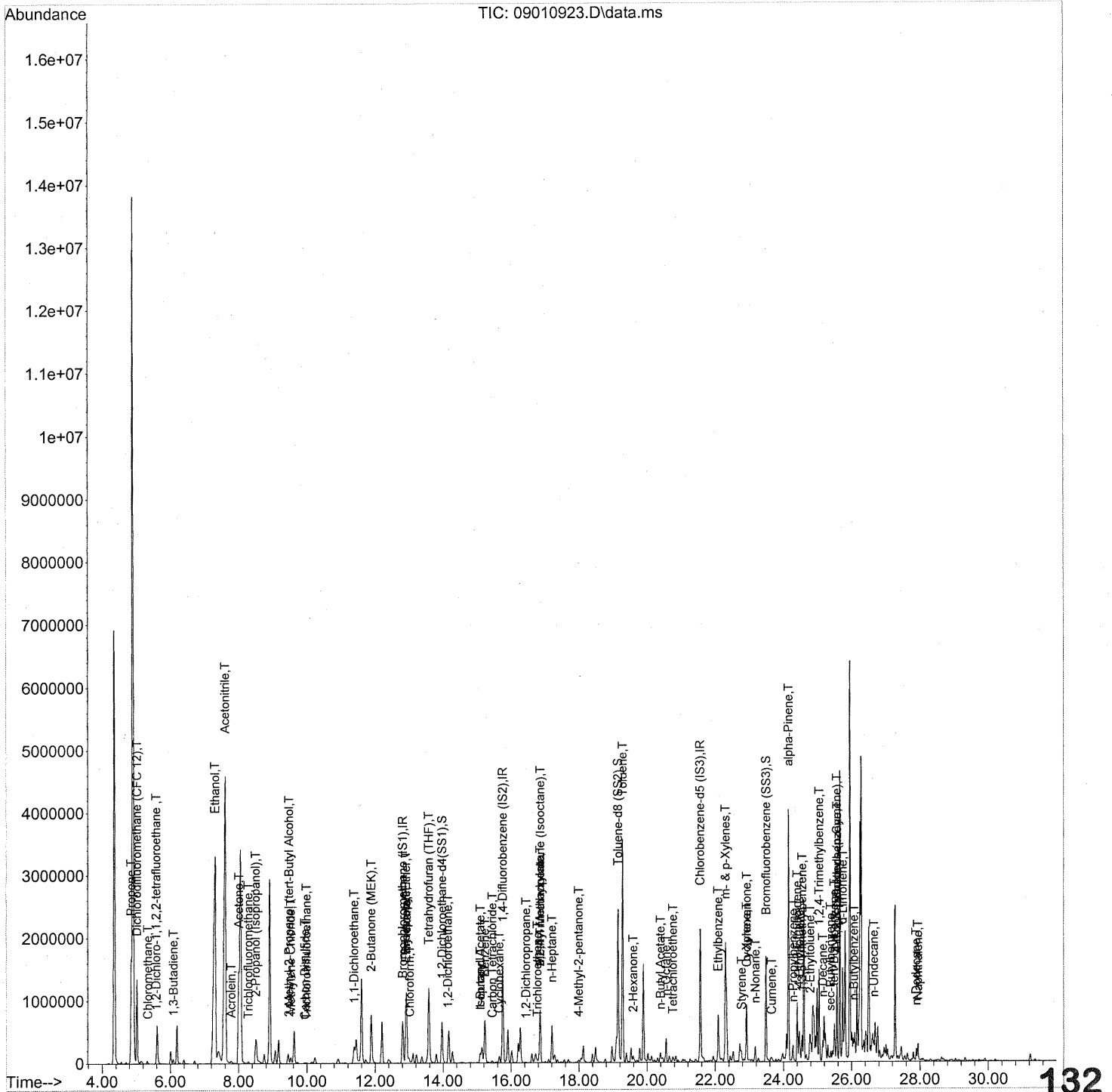
Date: _____

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Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 04 15:53:50 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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_09\01\
 Data File : 09010923.D
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 Operator : EM
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 Quant Title : EPA 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	355720	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1806675	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	886254	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	643793	25.596	ng	-0.02	
Spiked Amount	25.000			Recovery	=	102.40%	✓
57) Toluene-d8 (SS2)	19.15	98	2097921	24.900	ng	-0.01	✓
Spiked Amount	25.000			Recovery	=	99.60%	✓
73) Bromofluorobenzene (SS3)	23.49	174	590626	24.753	ng	0.00	
Spiked Amount	25.000			Recovery	=	99.00%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Dev (Min)	Qvalue
2) Propene	4.85	42	768736	24.636	ng		92
3) Dichlorodifluoromethan...	5.02	85	72324	1.624	ng		98
4) Chloromethane	5.35	50	17374	0.419	ng		96
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	1440	0.061	ng	#	43
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	6.09	54	39188	1.347	ng		95
8) Bromomethane	6.57	94	509	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	7.31	45	8855550	452.423	ng		
11) Acetonitrile	7.61	41	8978535	187.959	ng	E	99
12) Acrolein	7.79	56	43609	3.416	ng		97
13) Acetone	8.01	58	1081355	54.290	ng	#	25
14) Trichlorofluoromethane	8.29	101	31864	0.837	ng		99
15) 2-Propanol (Isopropanol)	8.50	45	665578	12.202	ng		95
16) Acrylonitrile	0.00	53	0	N.D.	d		
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) 2-Methyl-2-Propanol (t...	9.48	59	16567	0.299	ng	#	68
19) Methylene Chloride	9.53	84	49747	2.002	ng		86
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d		
21) Trichlorotrifluoroethane	9.99	151	5681	0.333	ng		88
22) Carbon Disulfide	9.94	76	23317	0.266	ng		98
23) trans-1,2-Dichloroethene	10.92	61	226	N.D.			
24) 1,1-Dichloroethane	11.38	63	2372	0.056	ng	#	1
25) Methyl tert-Butyl Ether	11.42	73	2332	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.	d		
27) 2-Butanone (MEK)	11.89	72	348330	25.085	ng	#	83
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	12.91	87	16362	0.830	ng	#	1
30) Ethyl Acetate	12.90	61	130651	14.509	ng		97
31) n-Hexane	12.93	57	543030	12.371	ng		9133

Em 9/8/09

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 04 15:53:50 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	10084	0.274 ng	81
34) Tetrahydrofuran (THF)	13.58	72	466811	32.335 ng #	78
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	14.14	62	5398	0.192 ng	90
38) 1,1,1-Trichloroethane	14.54	97	511	N.D.	
39) Isopropyl Acetate	15.09	61	876	0.059 ng #	1
40) 1-Butanol	15.09	56	161639	6.904 ng	97
41) Benzene	15.23	78	891185	9.172 ng	98
42) Carbon Tetrachloride	15.45	117	7713	0.284 ng	95
43) Cyclohexane	15.66	84	52947	1.407 ng	87
44) tert-Amyl Methyl Ether	16.11	73	1560	N.D.	
45) 1,2-Dichloropropane	16.44	63	2435	0.102 ng	96
46) Bromodichloromethane	0.00	83	0	N.D. d	
47) Trichloroethene	16.77	130	10426	0.423 ng	99
48) 1,4-Dioxane	16.75	88	344	N.D.	
49) 2,2,4-Trimethylpentane...	16.86	57	1005436	8.991 ng	100
50) Methyl Methacrylate	16.85	100	3765	0.388 ng #	1
51) n-Heptane	17.20	71	172426	6.666 ng	93
52) cis-1,3-Dichloropropene	17.96	75	389	N.D.	
53) 4-Methyl-2-pentanone	17.99	58	15508	0.739 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	3179518	31.131 ng	100
59) 2-Hexanone	19.59	43	63665	1.199 ng #	49
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	20.39	43	99703	1.721 ng	82
63) n-Octane	20.56	57	78841	3.463 ng	89
64) Tetrachloroethene	20.75	166	25262	0.997 ng	99
65) Chlorobenzene	0.00	112	0	N.D. d	
66) Ethylbenzene	22.09	91	711157	6.449 ng	98
67) m- & p-Xylenes	22.30	91	1891873	21.642 ng	99
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	22.77	104	56531	0.875 ng	99
70) o-Xylene	22.92	91	652874	7.424 ng	99
71) n-Nonane	23.17	43	104578	1.975 ng	90
72) 1,1,2,2-Tetrachloroethane	22.91	83	957	N.D.	
74) Cumene	23.65	105	36434	0.320 ng	96
75) alpha-Pinene	24.15	93	1911959	33.985 ng	99
76) n-Propylbenzene	24.28	91	216166	1.534 ng	96
77) 3-Ethyltoluene	24.40	105	639082	5.983 ng	98
78) 4-Ethyltoluene	24.46	105	302904	2.821 ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	222374	2.504 ng	99

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Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
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 Response via : Initial Calibration

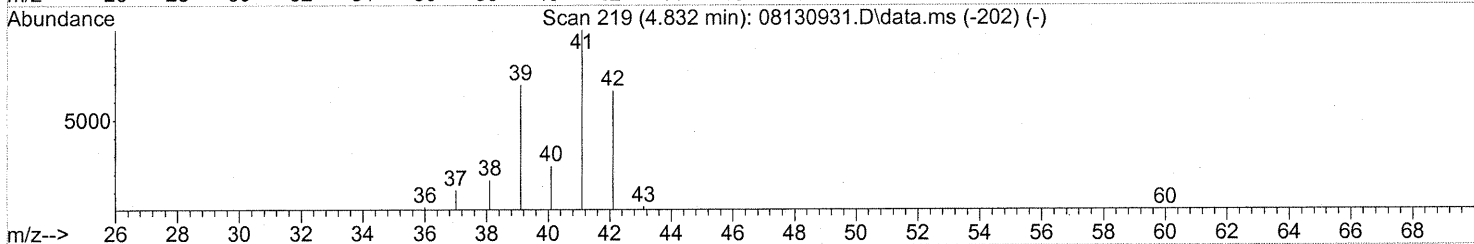
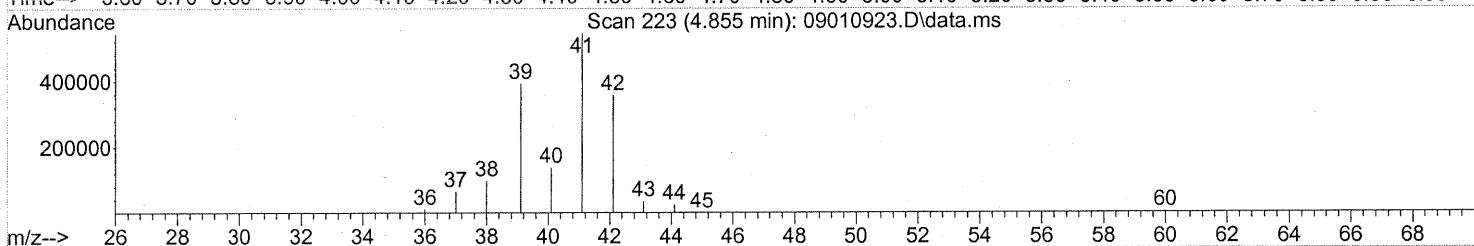
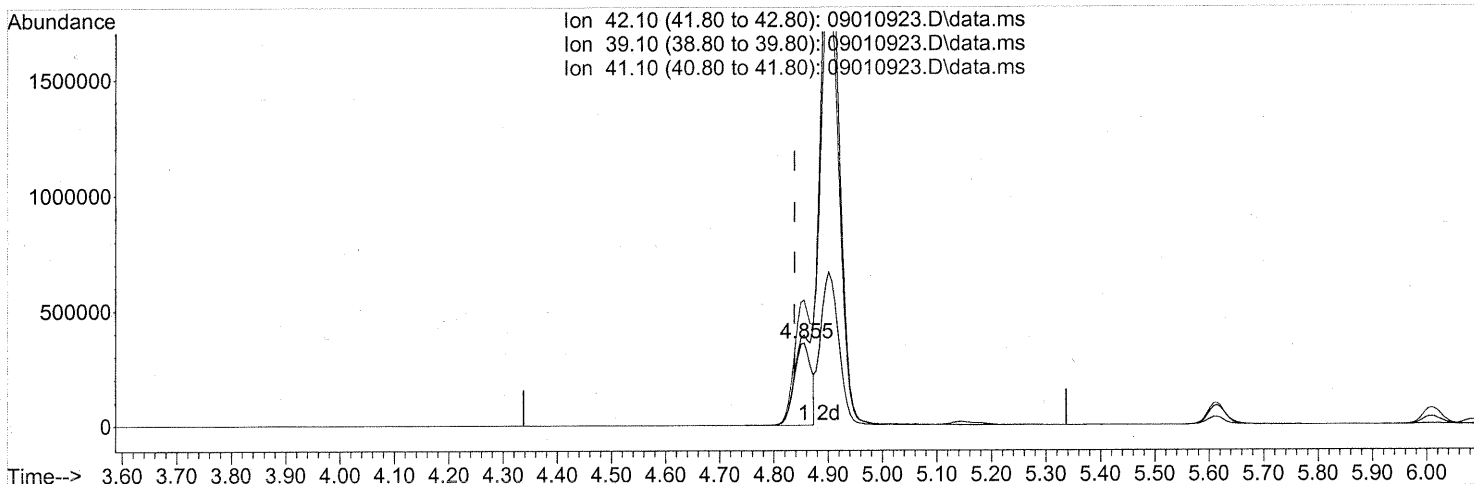
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1416	N.D.		
81) 2-Ethyltoluene	24.79	105	212892	1.930 ng		99
82) 1,2,4-Trimethylbenzene	25.05	105	840323	8.913 ng		89
83) n-Decane	25.15	57	121119	2.207 ng	#	57
84) Benzyl Chloride	25.23	91	401	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	1769	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	1769	N.D.		
87) sec-Butylbenzene	25.38	105	16175	0.130 ng		94
88) 4-Isopropyltoluene (p-...	25.56	119	142840	1.200 ng		92
89) 1,2,3-Trimethylbenzene	25.57	105	195048	2.047 ng		95
90) 1,2-Dichlorobenzene	25.33	146	1769	N.D.		
91) d-Limonene	25.74	68	395678	10.258 ng		97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	36860	0.650 ng	#	34
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	217309	1.718 ng		96
96) n-Dodecane	27.89	57	55186	0.869 ng		100
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.92	55	4085	0.127 ng		94
99) tert-Butylbenzene	25.49	119	27400	0.293 ng		96
100) n-Butylbenzene	26.06	91	83301	0.842 ng	#	42

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



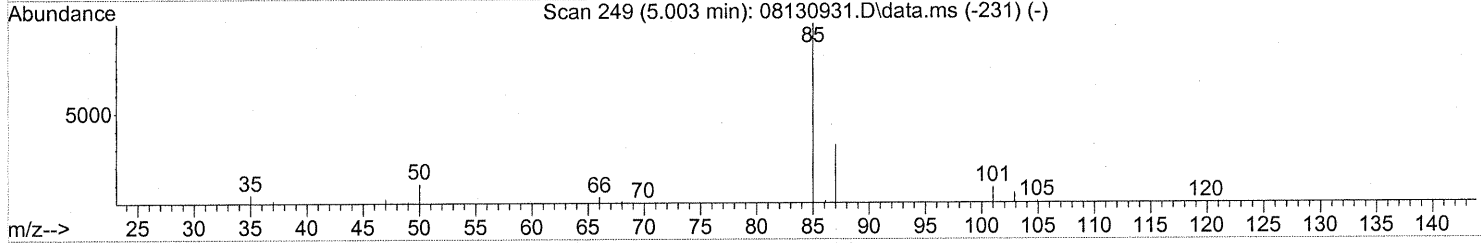
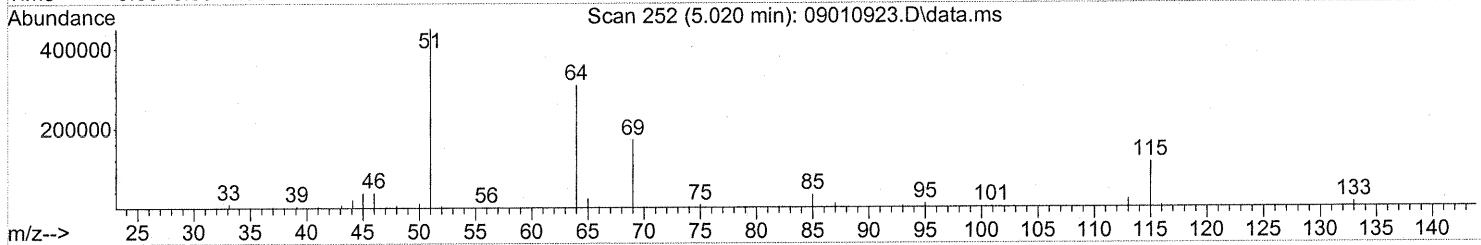
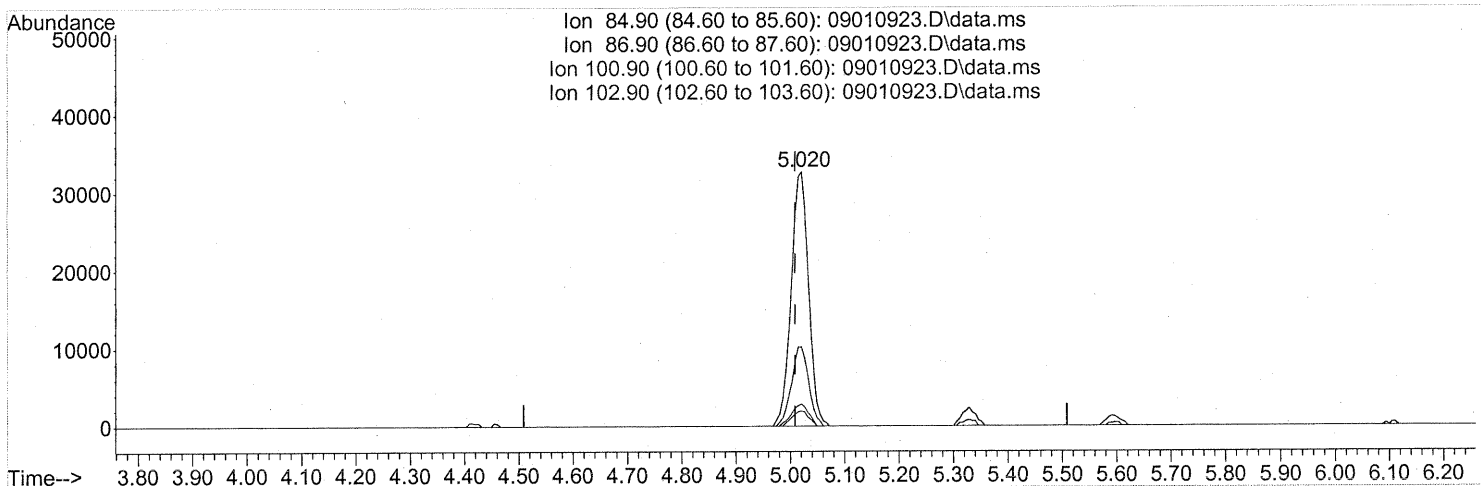
(2) Propene (T)
 4.855min (+0.017) 24.64ng
 response 768736

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	102.34
41.10	152.70	159.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
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 Operator : EM
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 Response via : Initial Calibration



TIC: 09010923.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.020min (+0.011) 1.62ng

response 72324

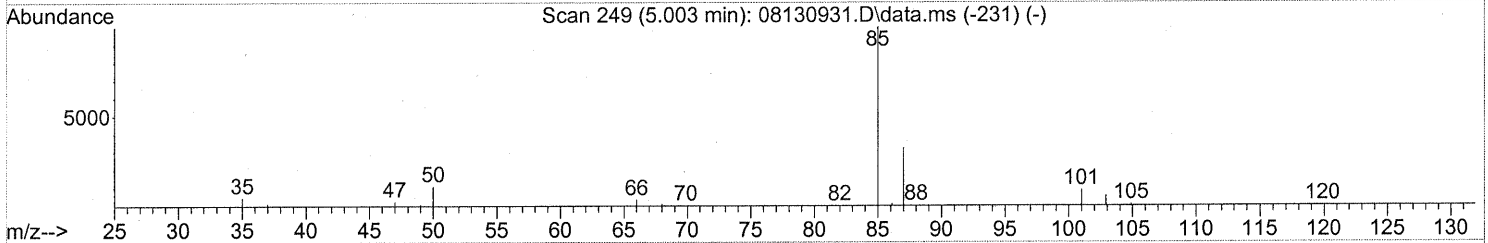
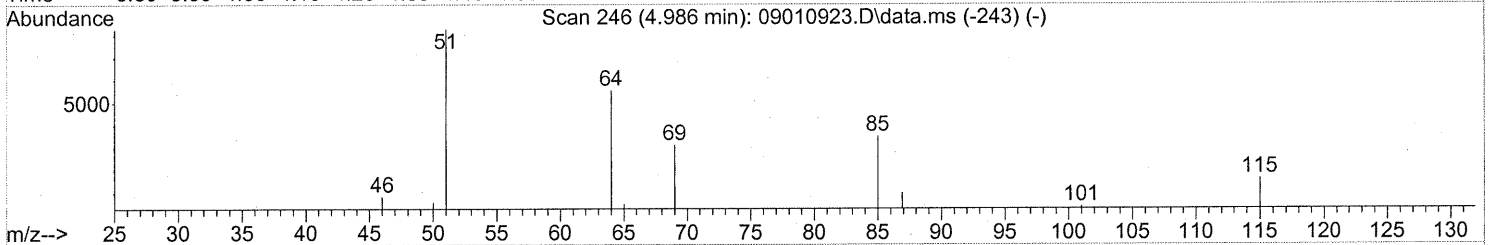
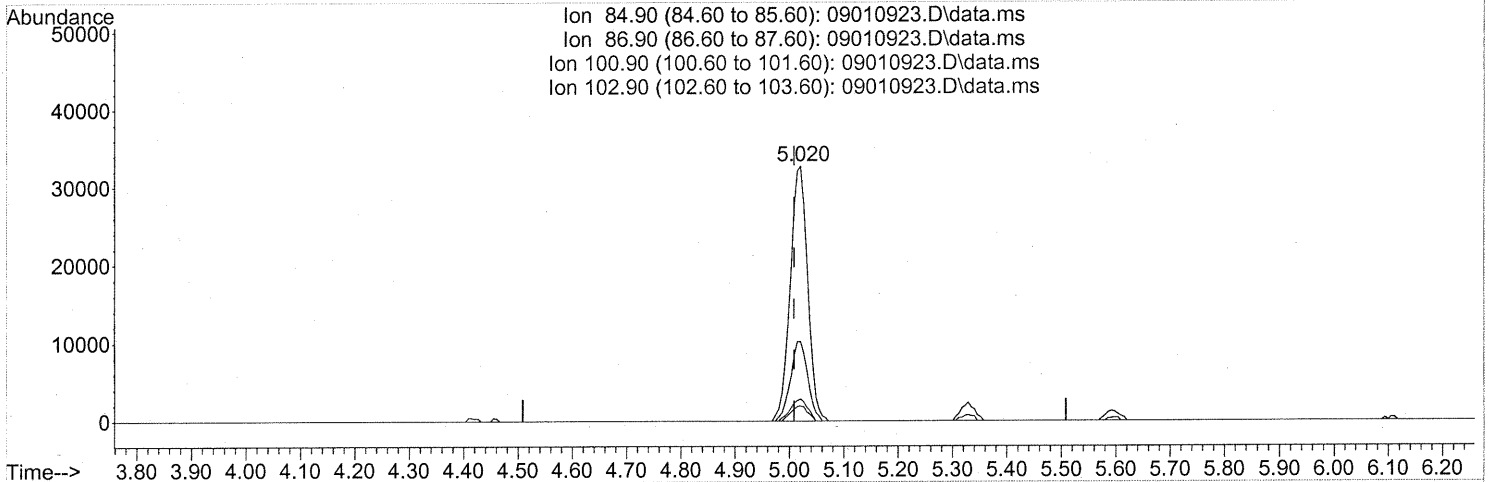
Ion	Exp%	Act%
84.90	100	100
86.90	32.00	30.96
100.90	9.10	8.39
102.90	5.50	5.56

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
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 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010923.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.020min (+0.011) 1.62ng

response 72324

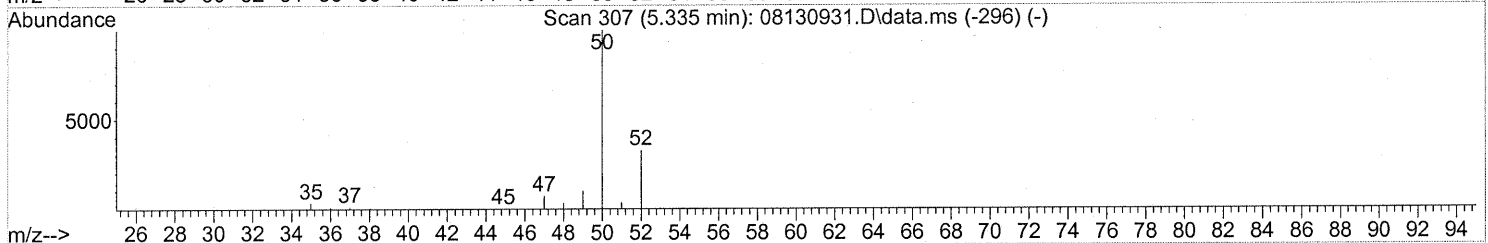
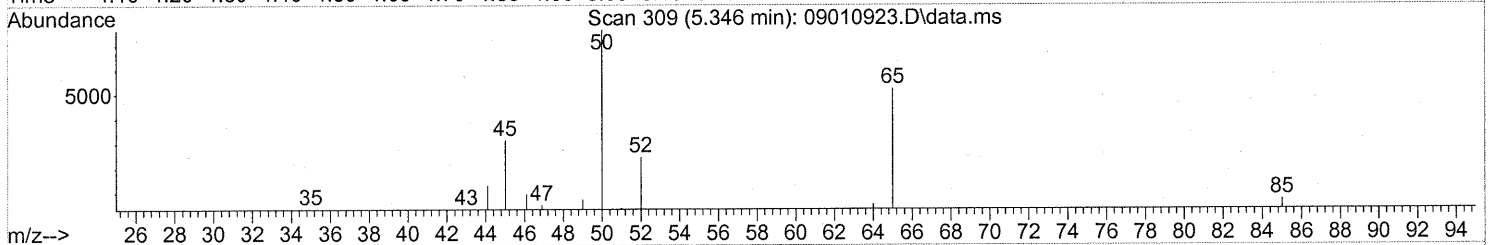
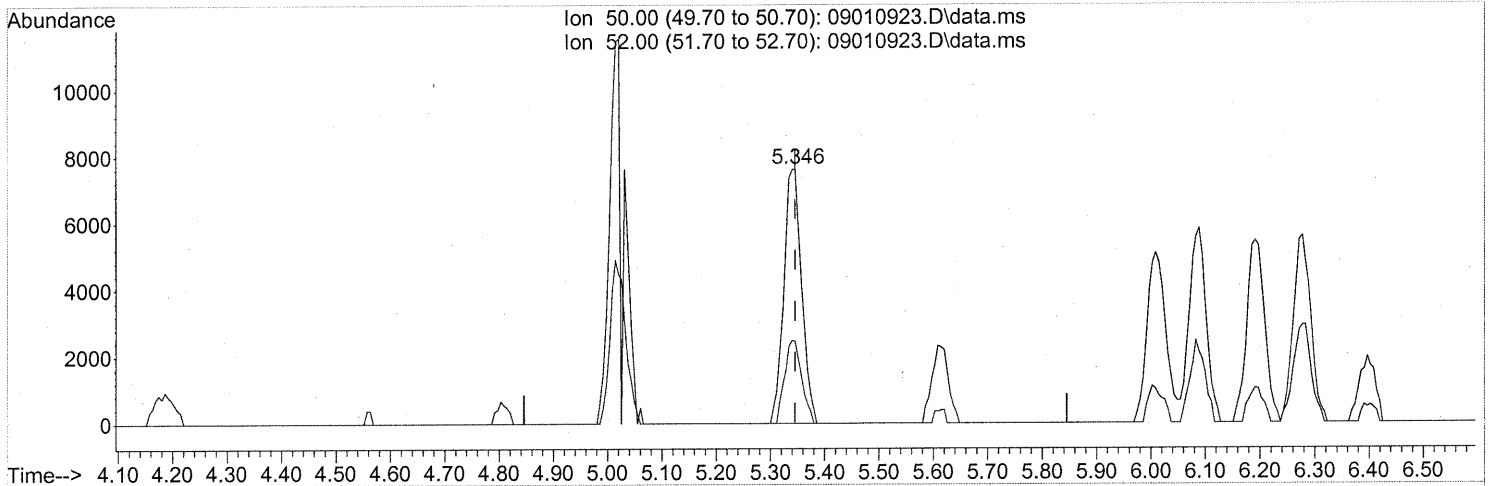
Ion	Exp%	Act%
84.90	100	100
86.90	32.00	30.96
100.90	9.10	8.39
102.90	5.50	5.56

*After subtraction
 Com 9/8/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
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 Operator : EM
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 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010923.D\data.ms

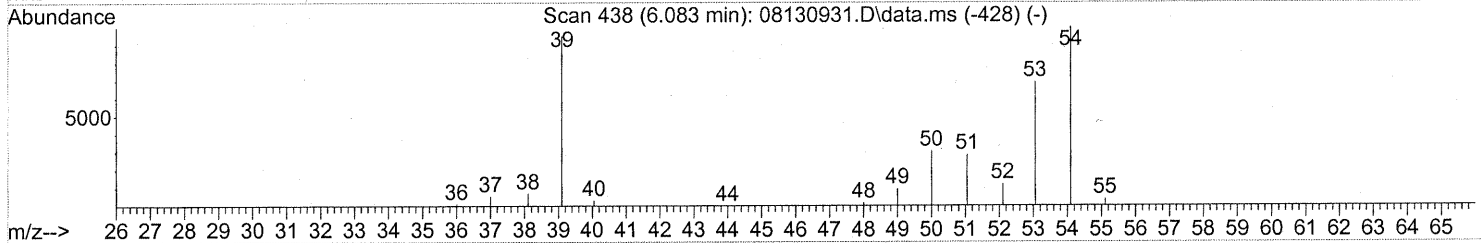
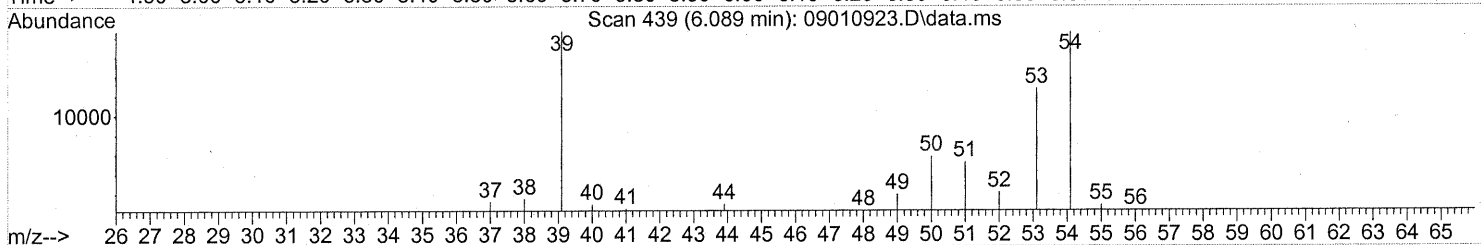
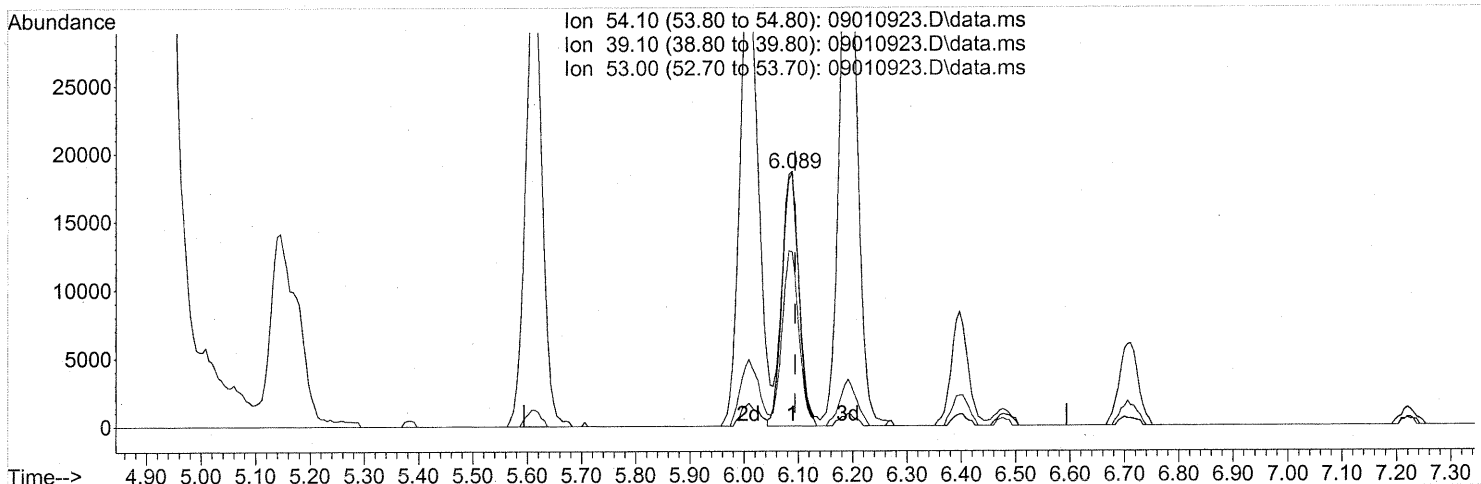
(4) Chloromethane (T)
 5.346min (-0.000) 0.42ng
 response 17374

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
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 Misc : Environmental H & E 103995
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TIC: 09010923.D\data.ms

(7) 1,3-Butadiene (T)

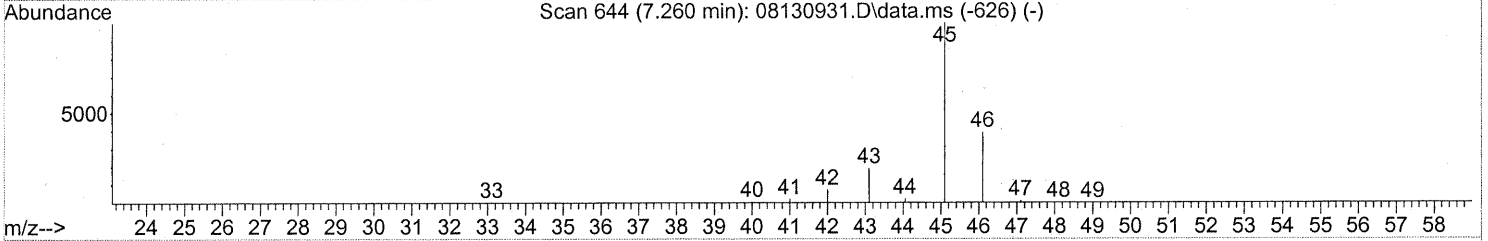
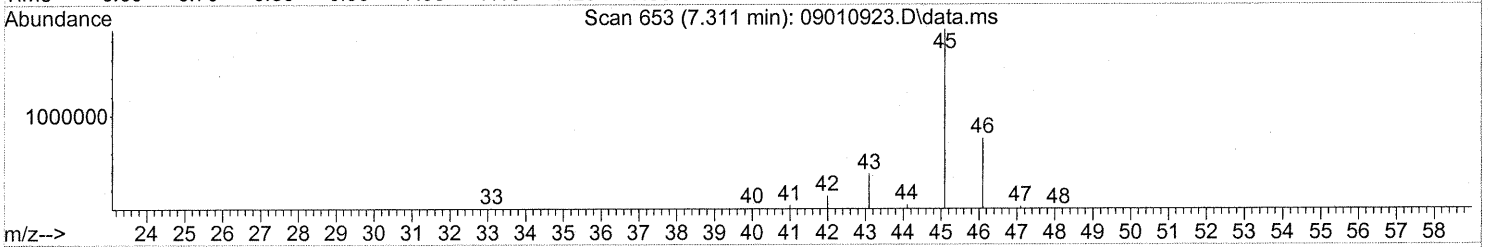
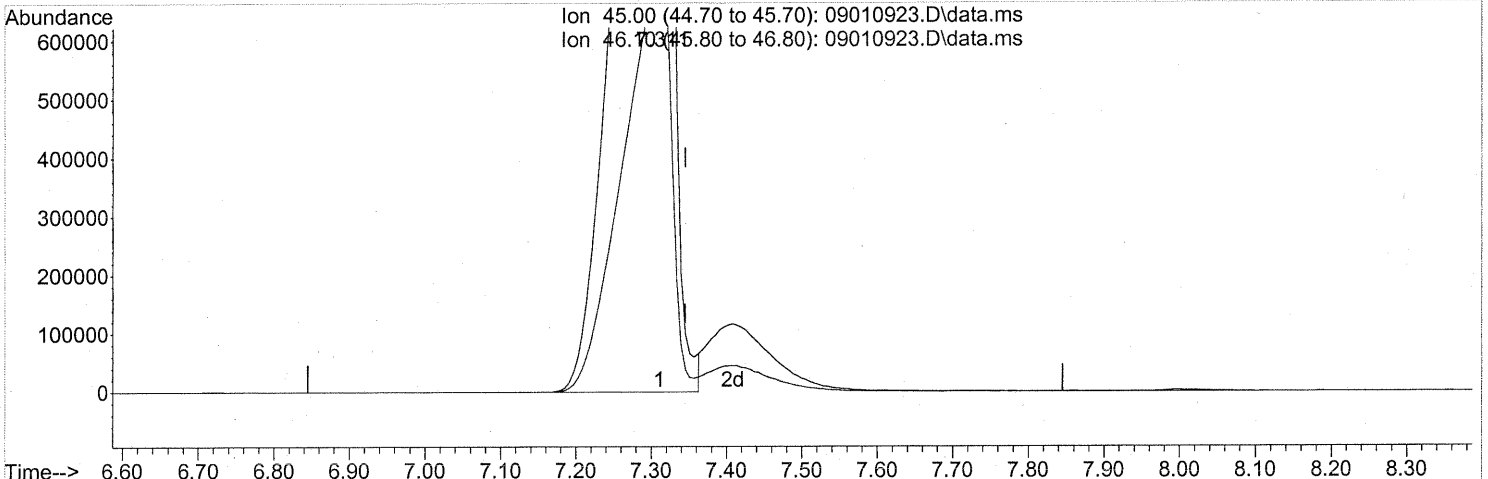
6.089min (-0.006) 1.35ng
 response 39188

Ion	Exp%	Act%
54.10	100	100
39.10	96.60	104.74
53.00	69.80	70.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(10) Ethanol (T)
 7.311min (-0.034) 417.46ng
 response 8171136

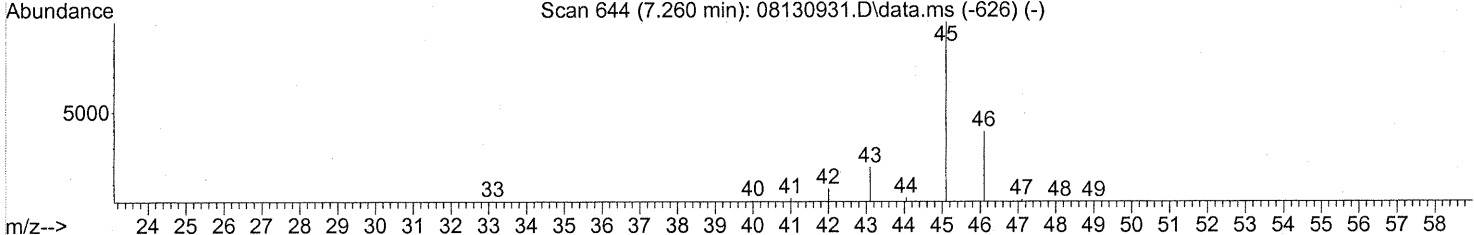
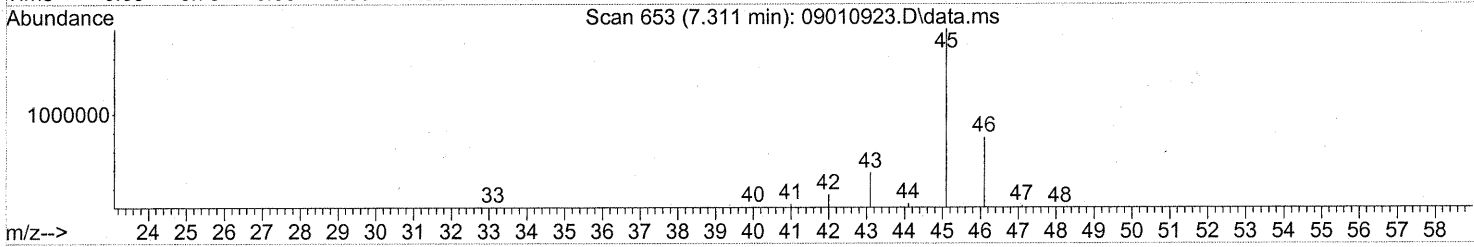
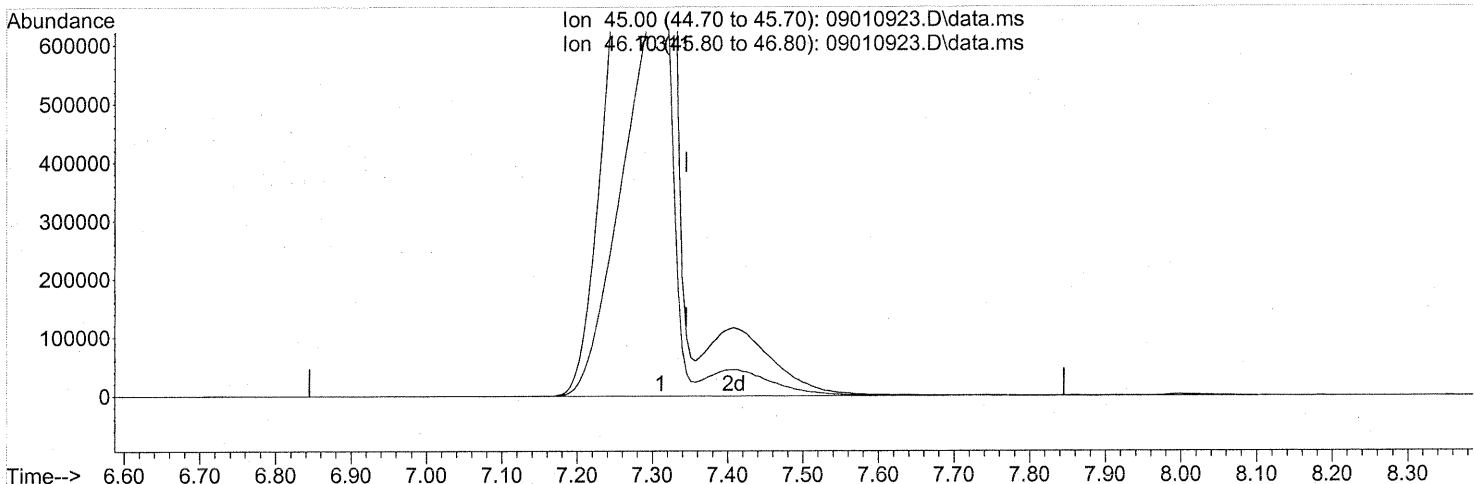
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.29
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(10) Ethanol (T)

7.311min (-0.034) 452.42ng m

response 8855550

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.25
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

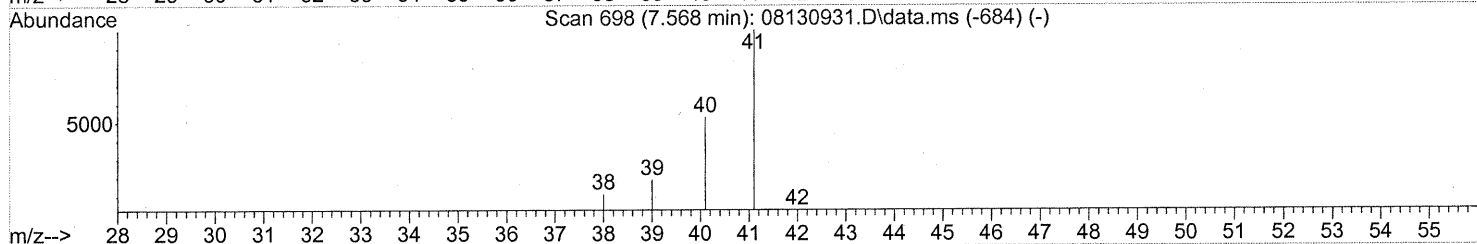
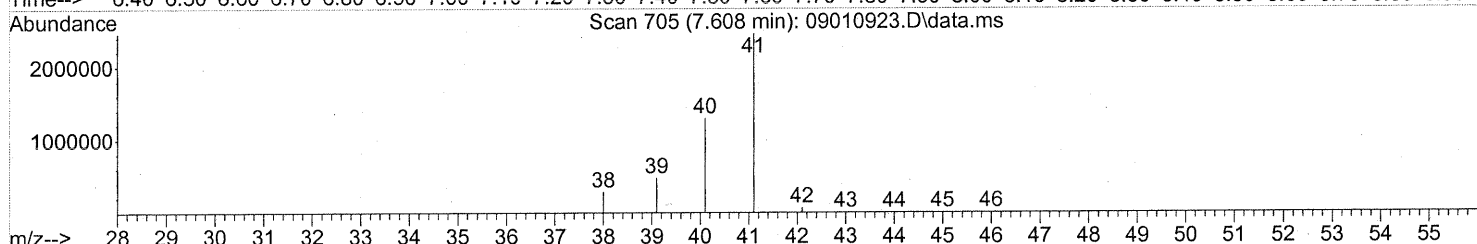
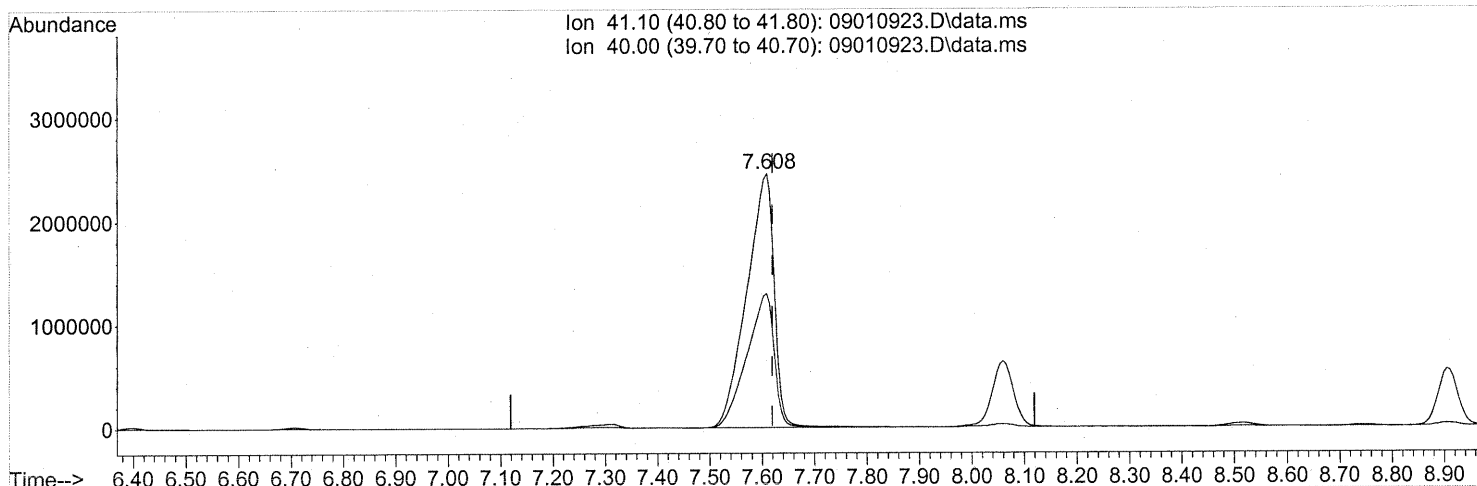
com 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(11) Acetonitrile (T)

7.608min (-0.011) 187.96ng

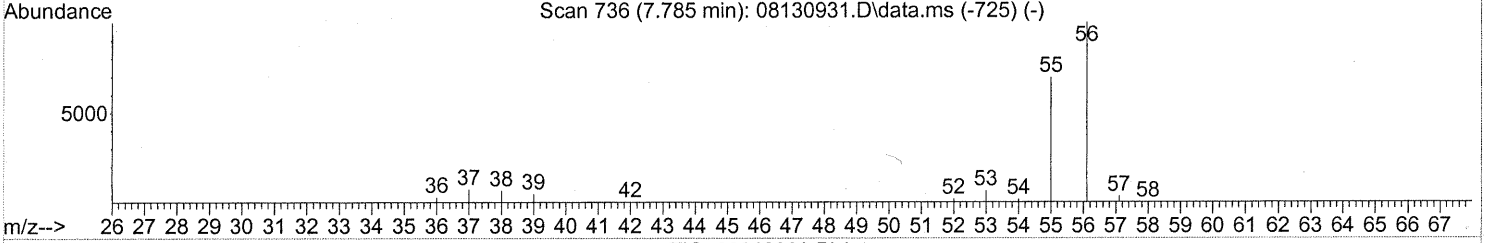
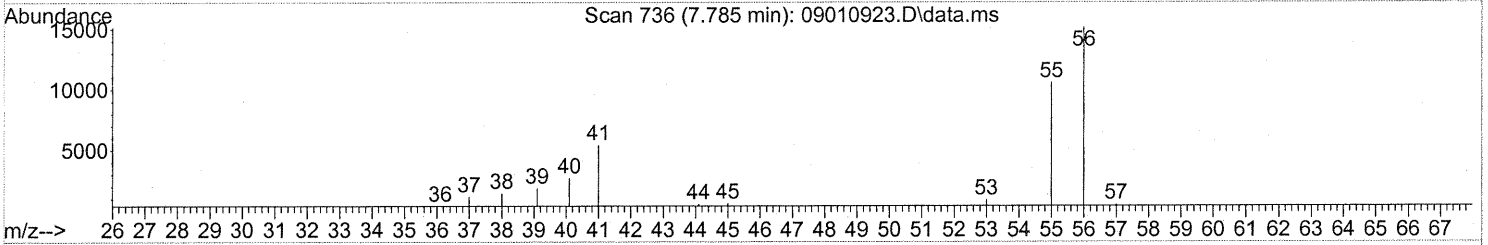
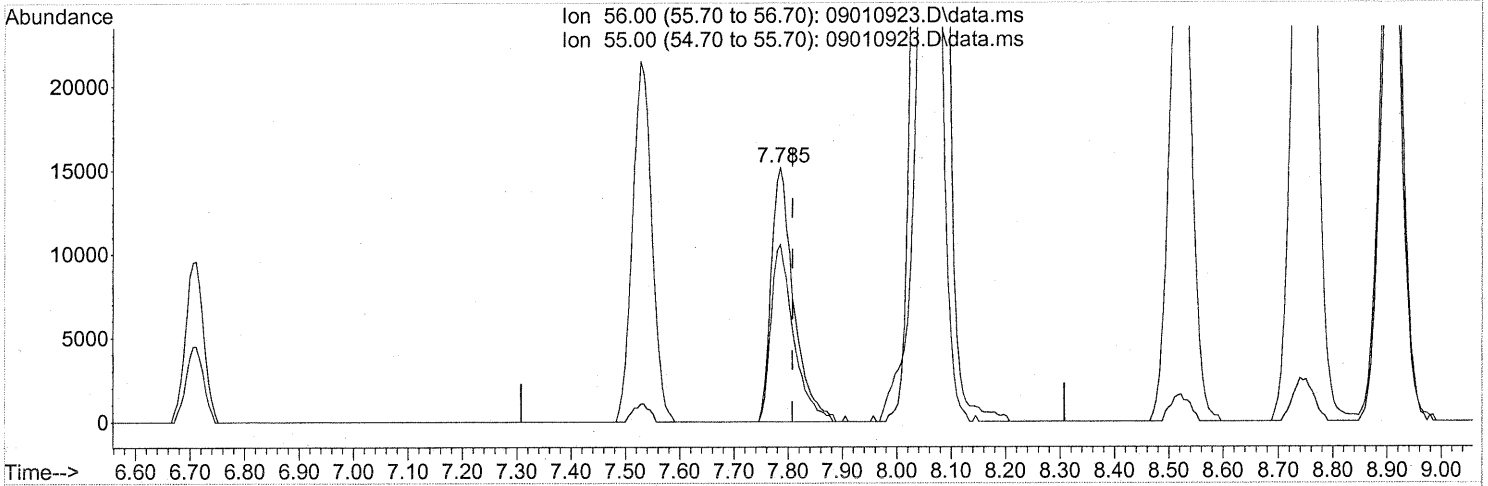
response 8978535

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09010923.D\data.ms

(12) Acrolein (T)

7.785min (-0.023) 3.42ng

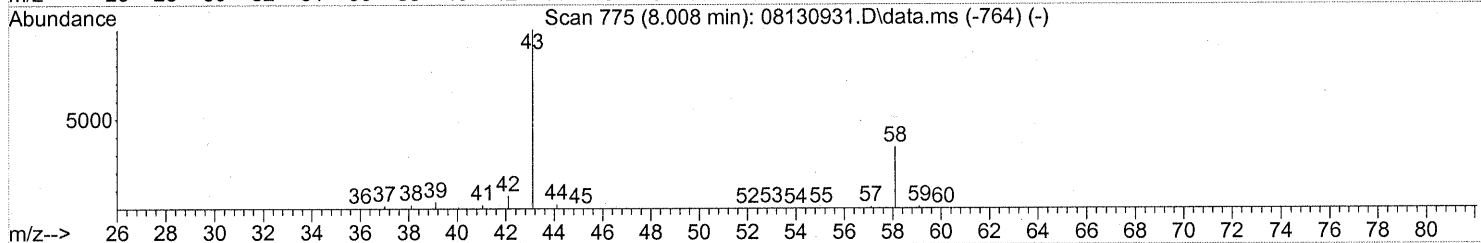
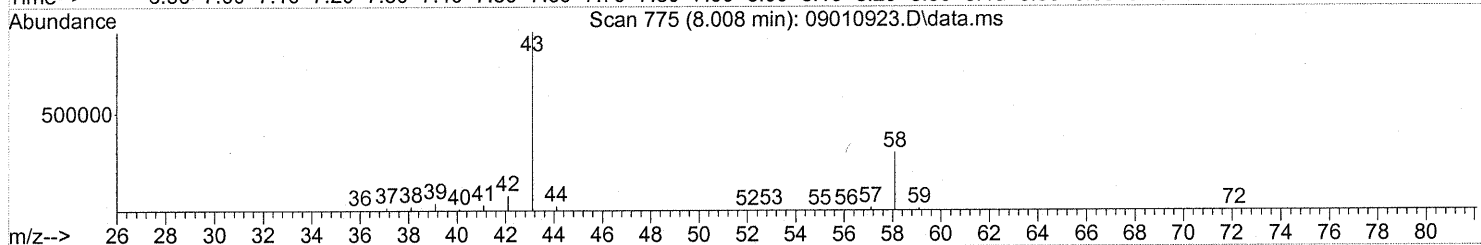
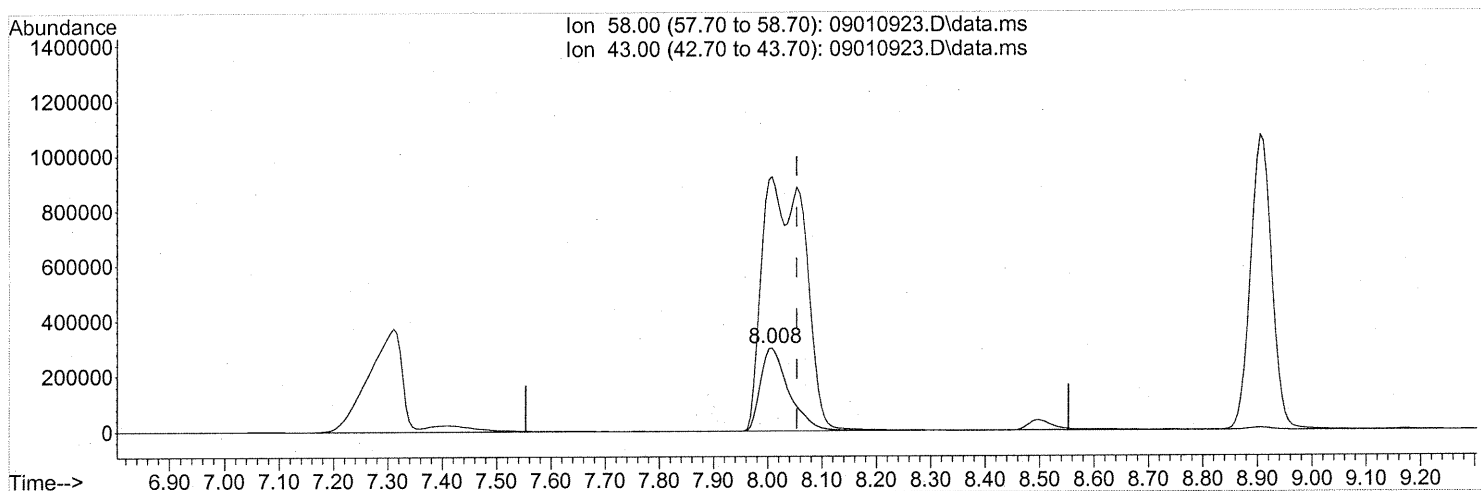
response 43609

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	70.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 2009
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 Response via : Initial Calibration



TIC: 09010923.D\data.ms

(13) Acetone (T)

8.008min (-0.046) 54.29ng

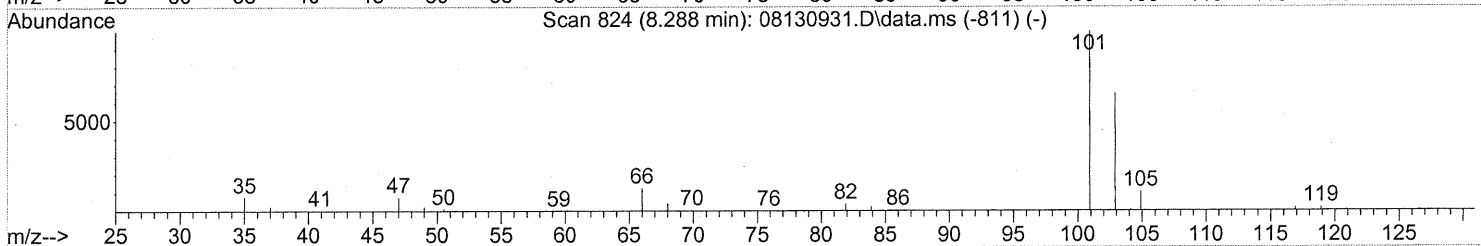
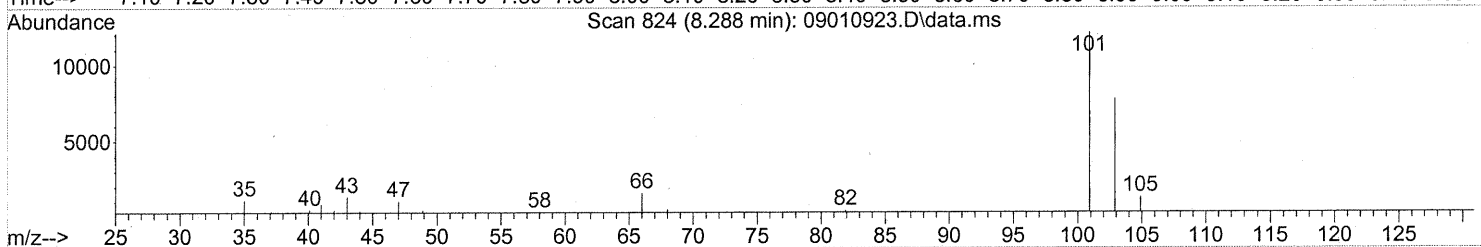
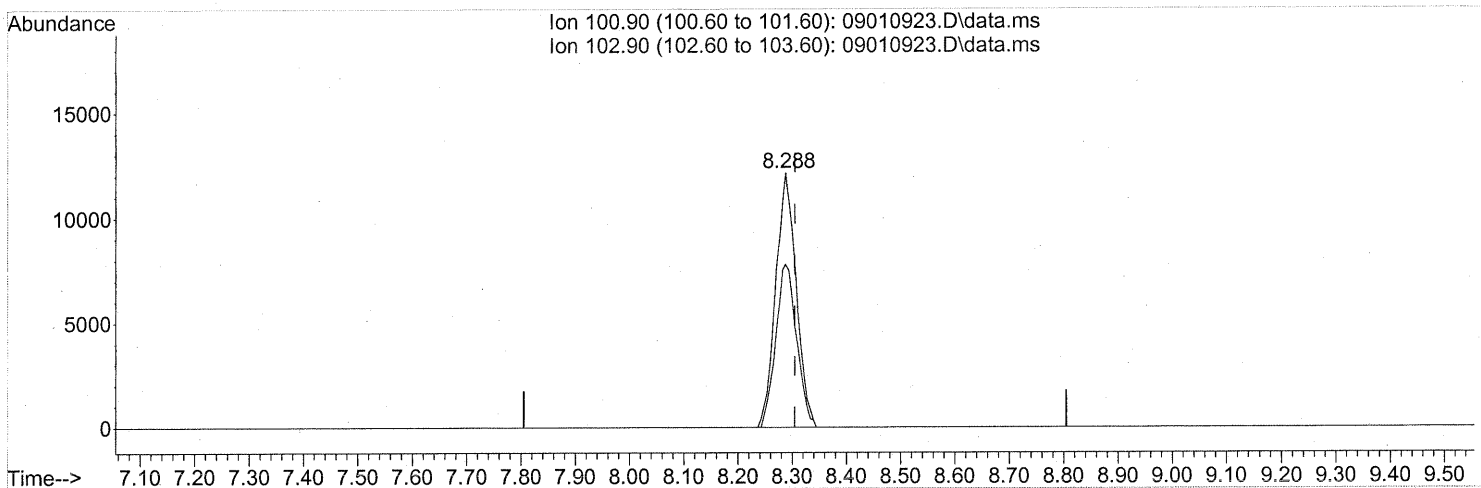
response 1081355

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	469.56#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.017) 0.84ng

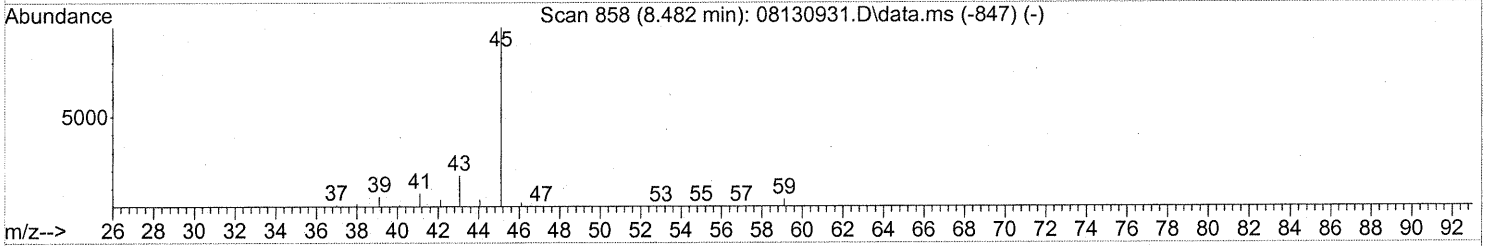
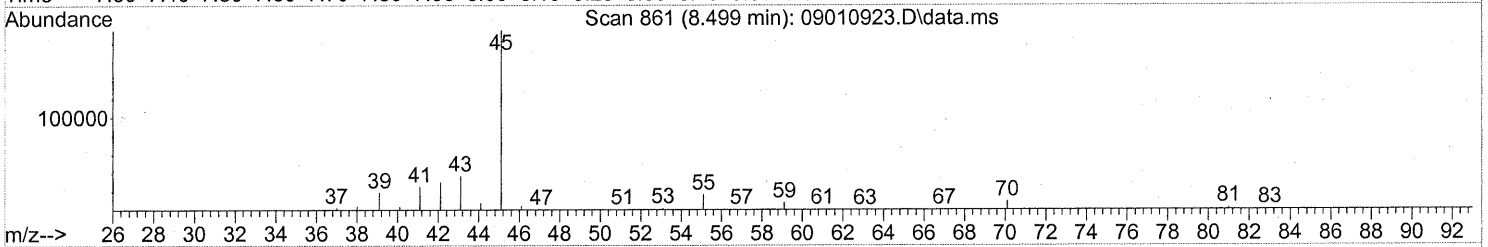
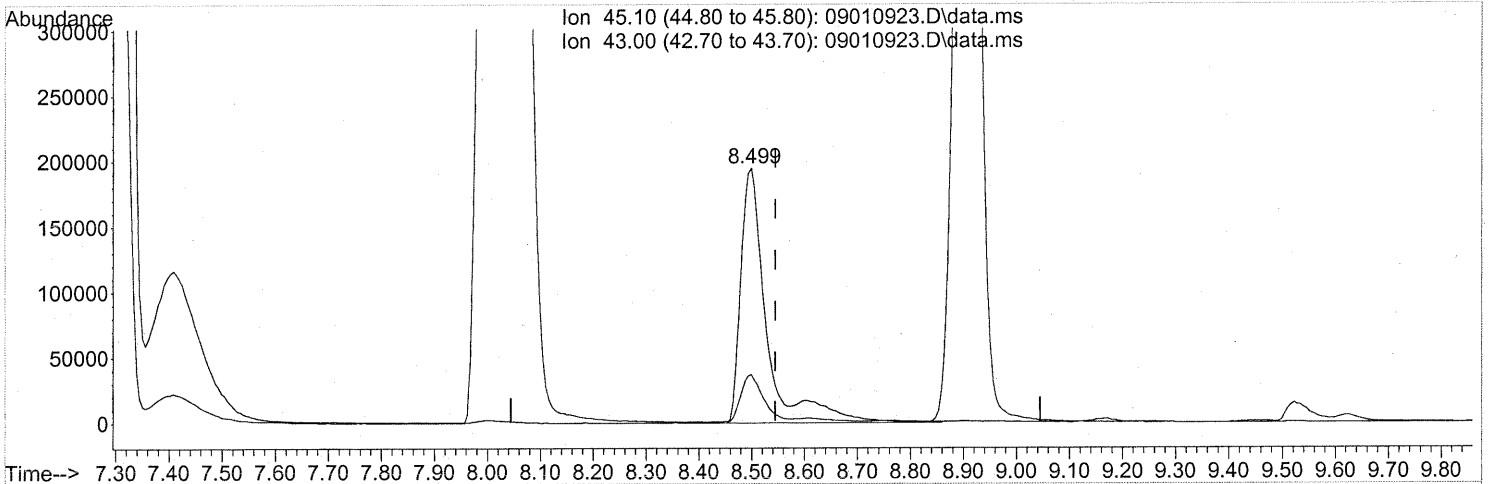
response 31864

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	65.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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 Response via : Initial Calibration



TIC: 09010923.D\data.ms

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

8.499min (-0.046) 12.20ng

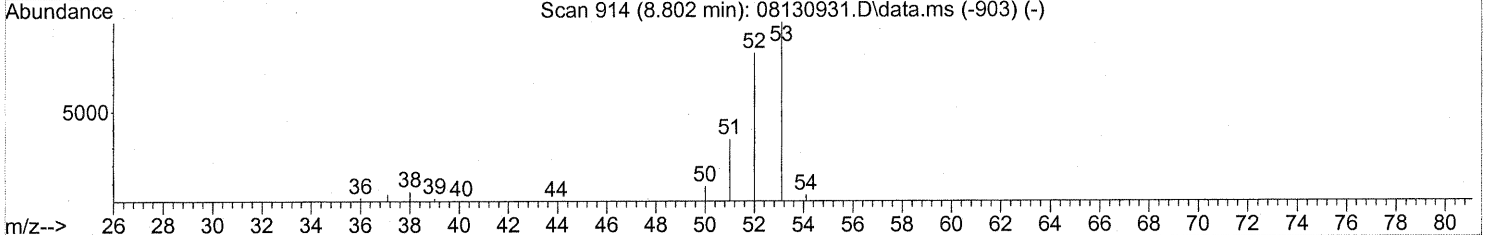
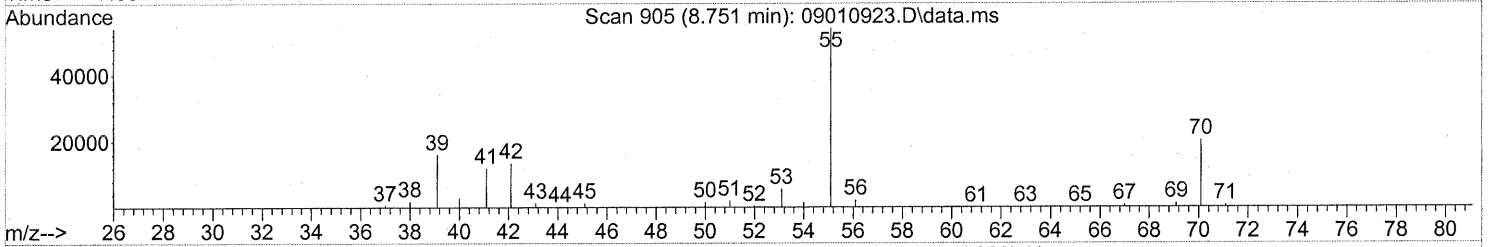
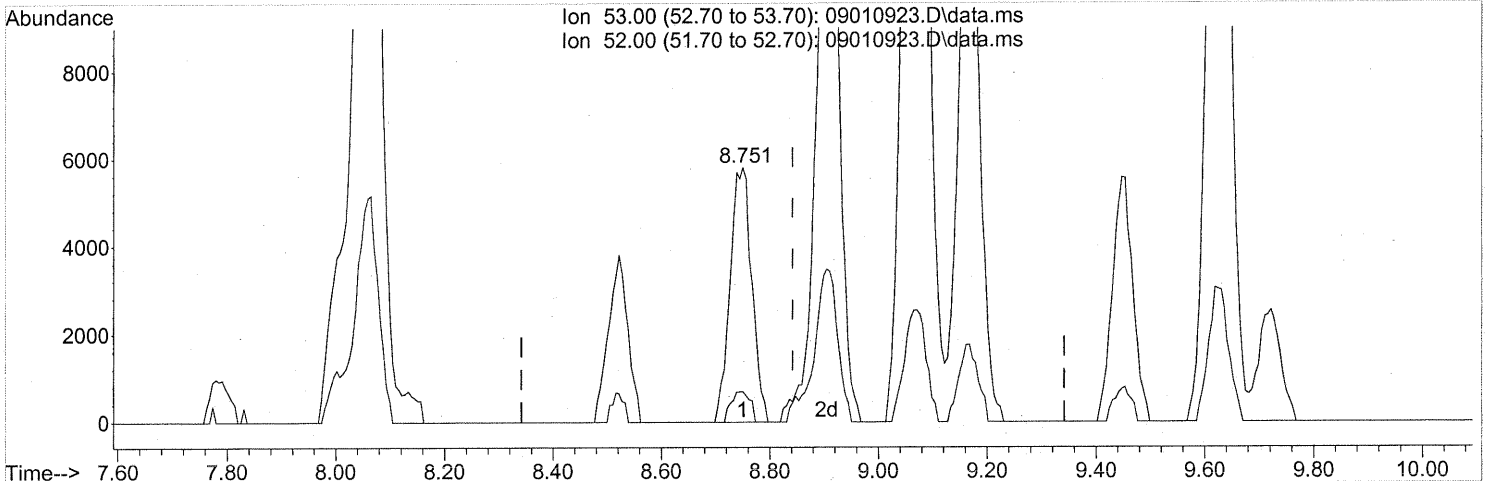
response 665578

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	18.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(16) Acrylonitrile (T)
 8.751min (-0.091) 0.55ng
 response 15986

Ion	Exp%	Act%
53.00	100	100
52.00	84.50	10.48#
0.00	0.00	0.00
0.00	0.00	0.00

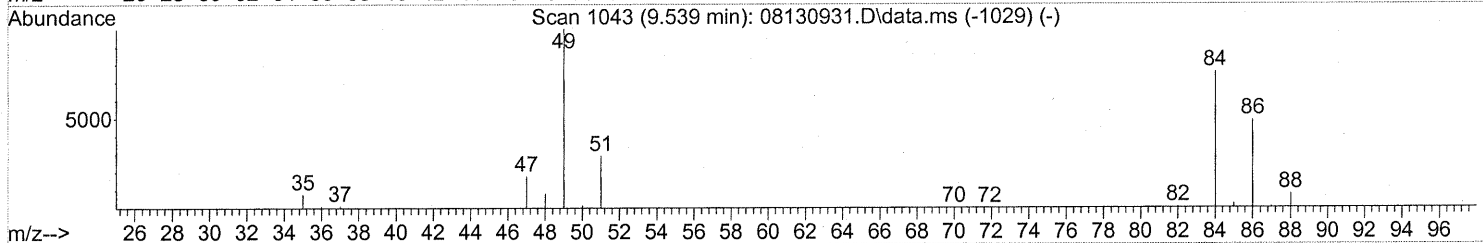
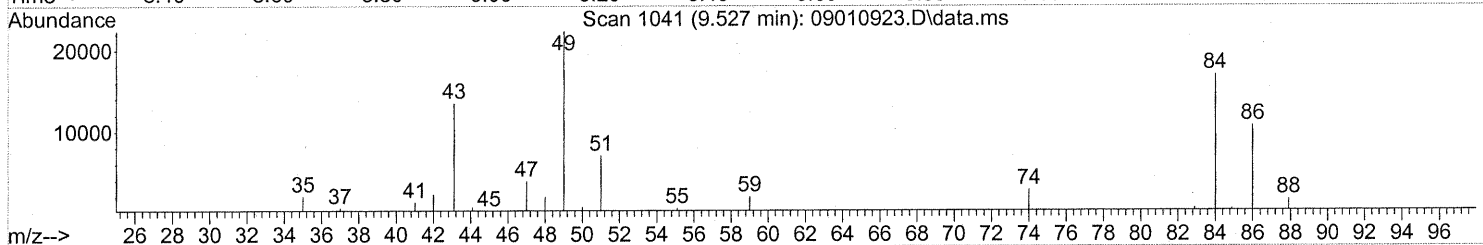
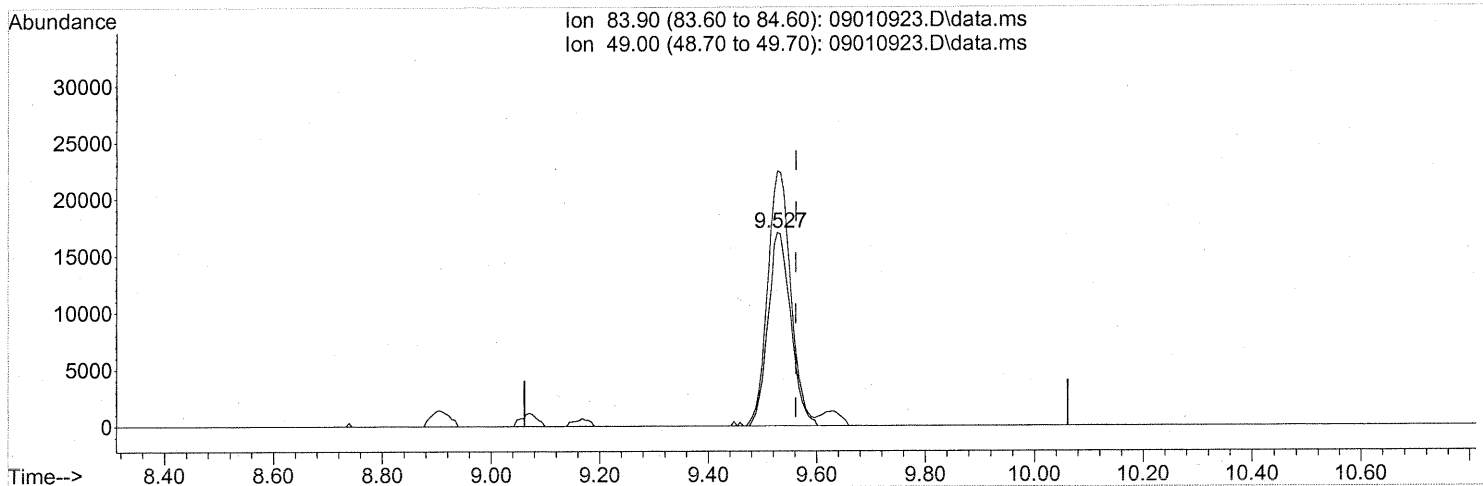
FP em 9/8/09

129/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
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 Misc : Environmental H & E 103995
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TIC: 09010923.D\data.ms

(19) Methylene Chloride (T)

9.527min (-0.034) 2.00ng

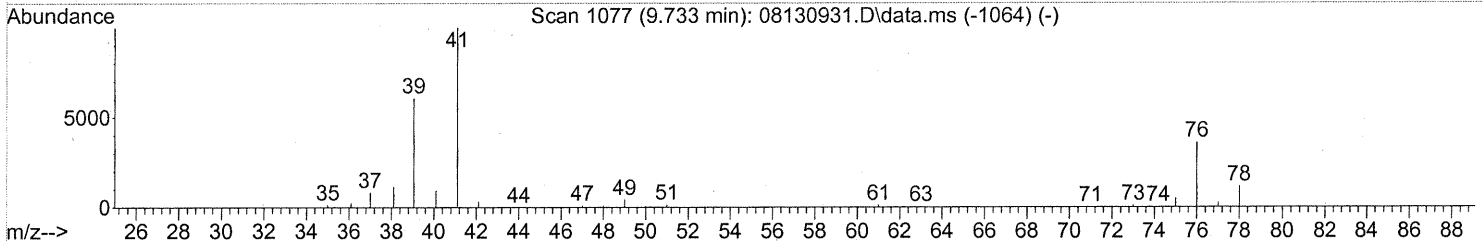
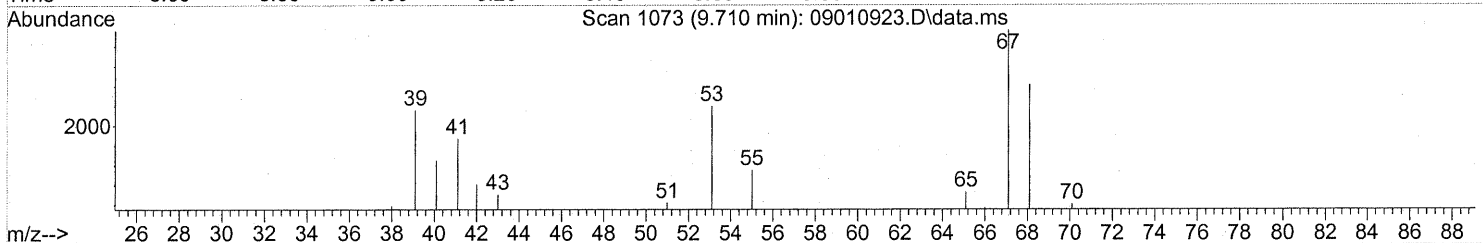
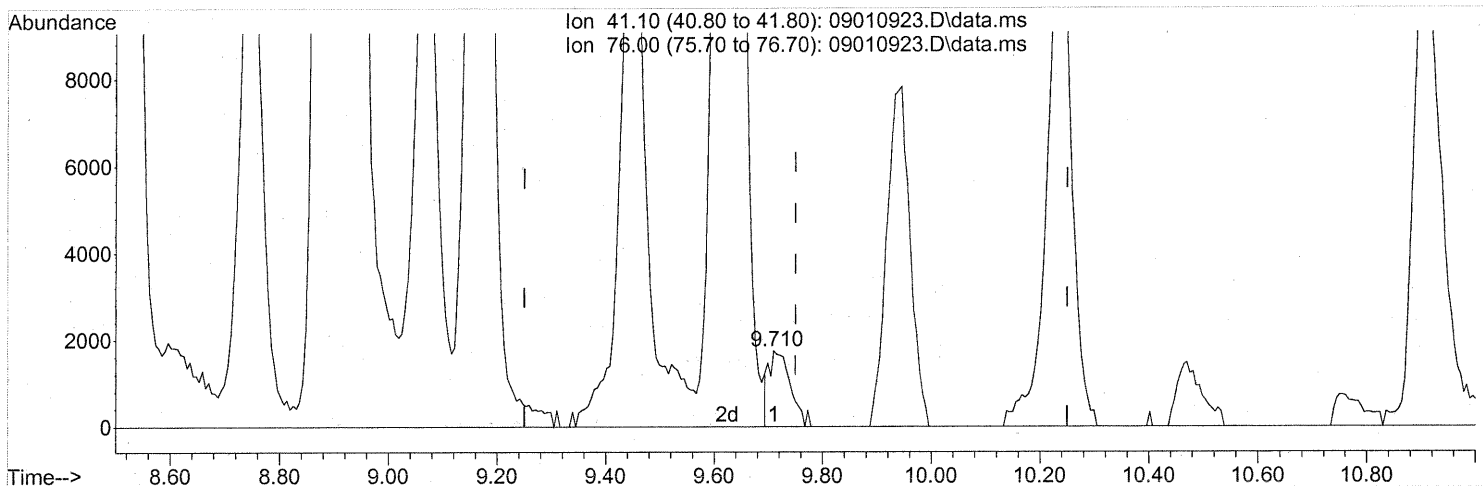
response 49747

Ion	Exp%	Act%
83.90	100	100
49.00	118.80	134.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

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

9.710min (-0.040) 0.15ng

response 4865

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

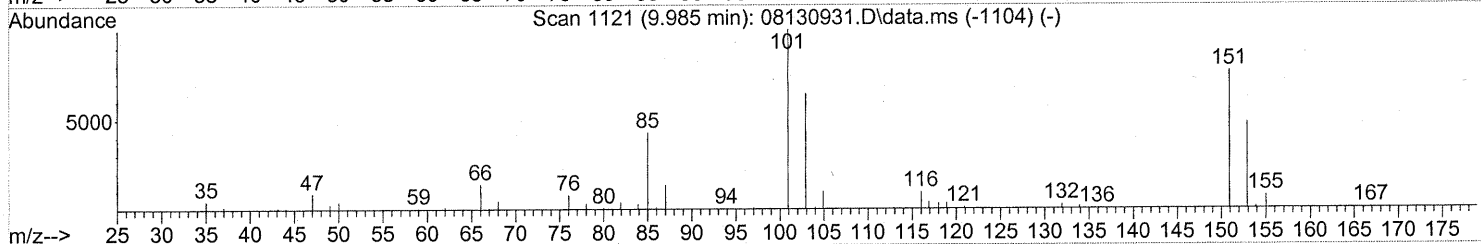
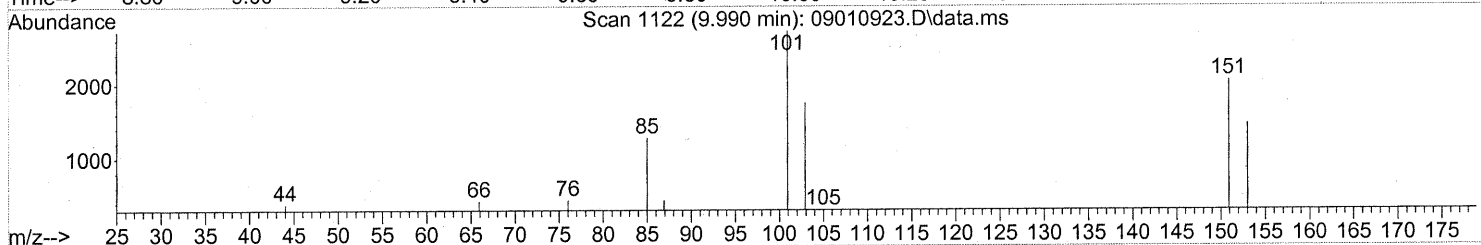
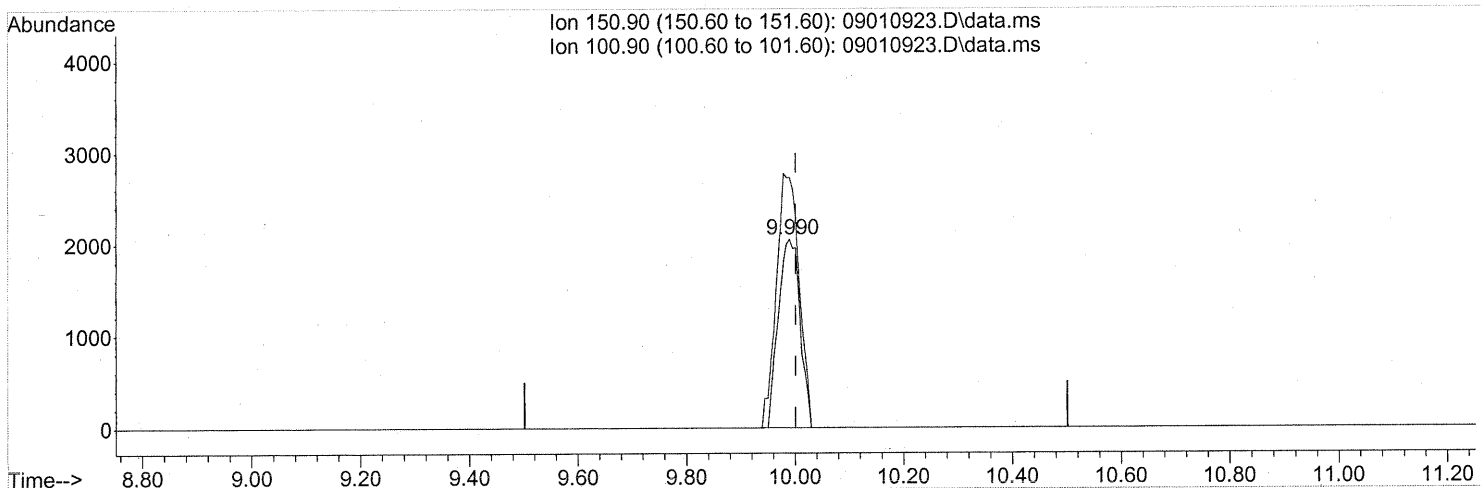
FP em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.990min (-0.011) 0.33ng

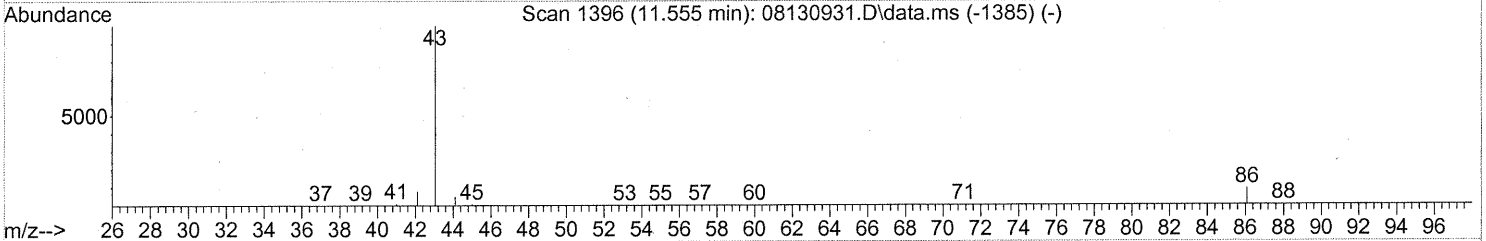
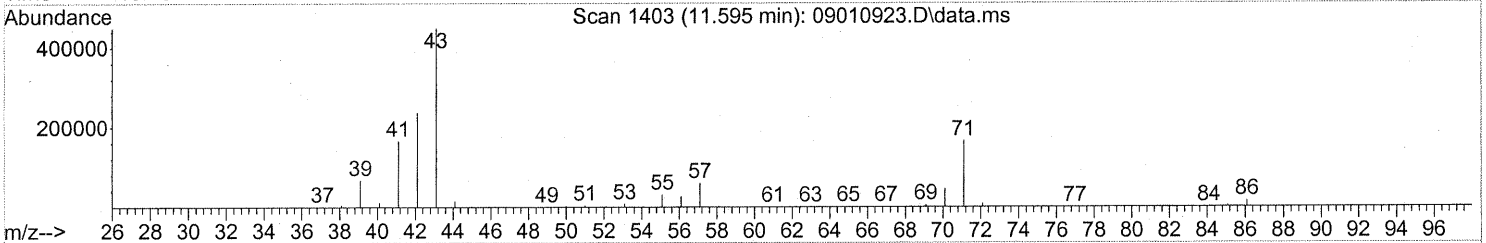
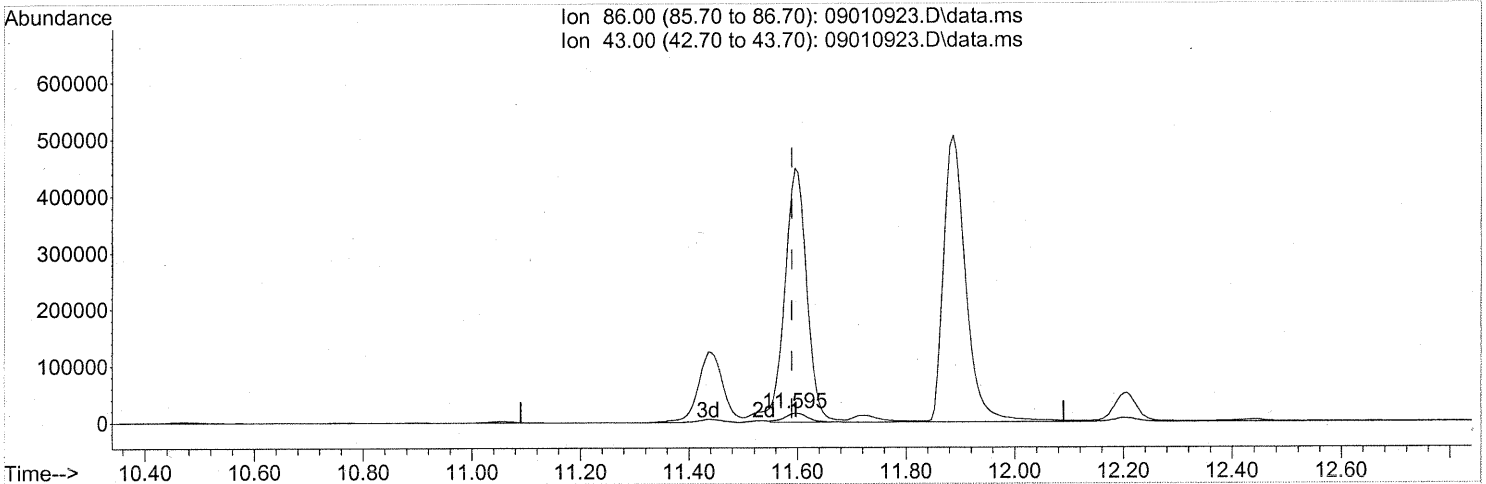
response 5681

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	141.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(26) Vinyl Acetate (T)
 11.595min (+0.005) 10.48ng
 response 45227

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	2831.60#
0.00	0.00	0.00
0.00	0.00	0.00

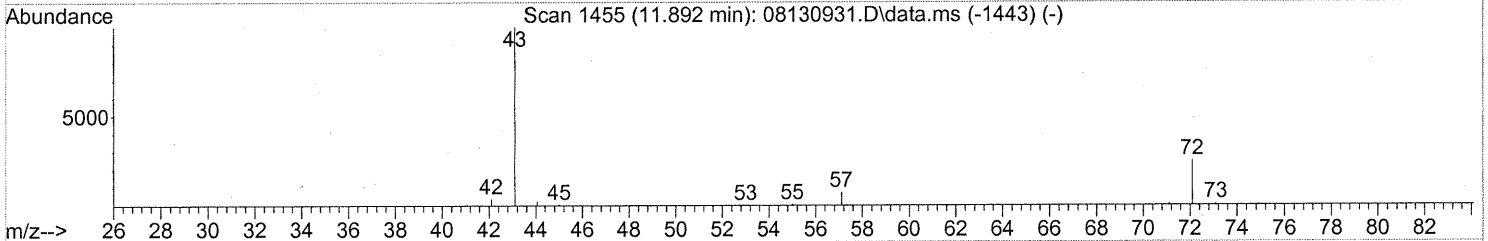
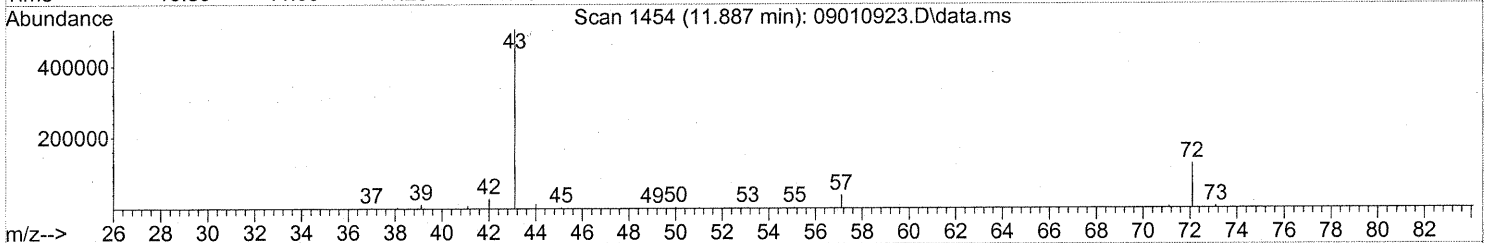
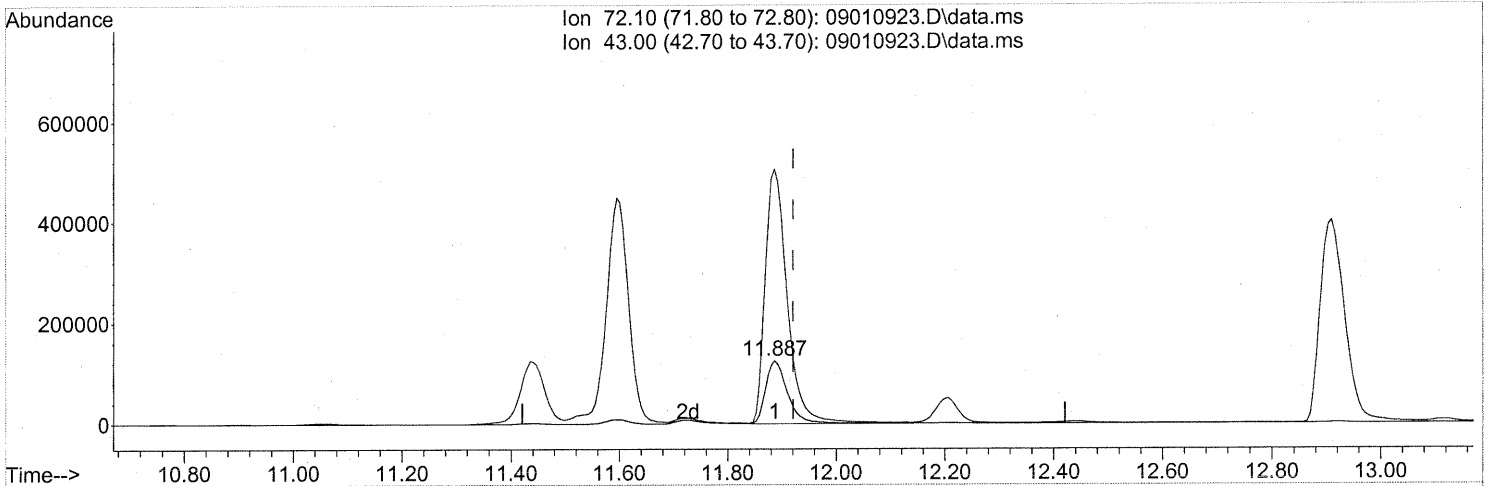
FP com 9/8/09

10/9/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

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

11.887min (-0.034) 25.08ng

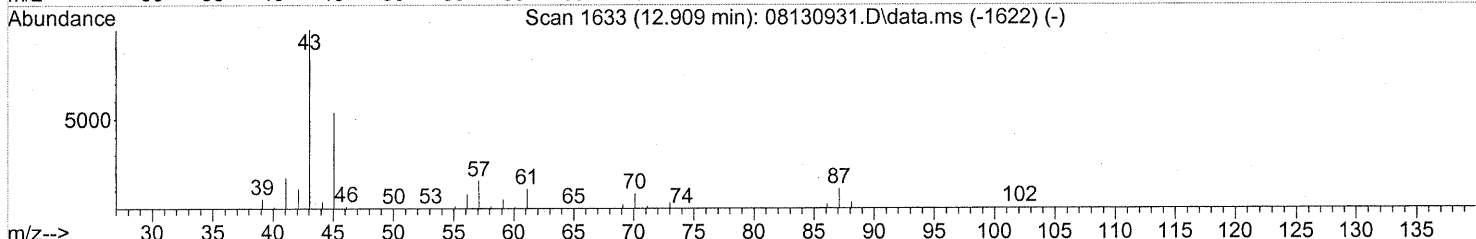
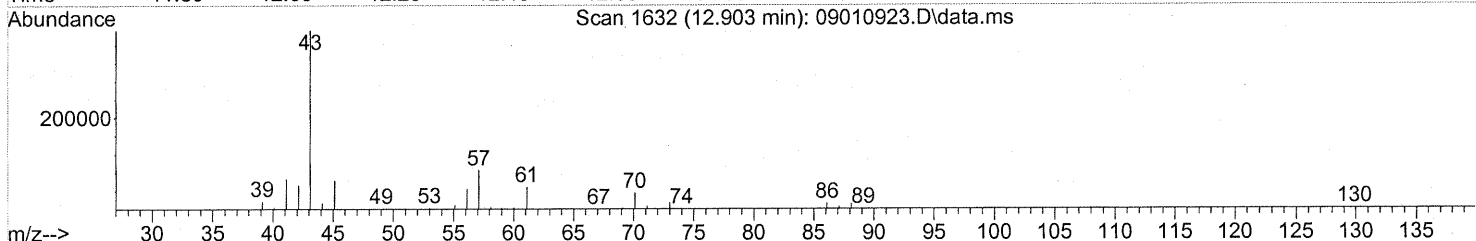
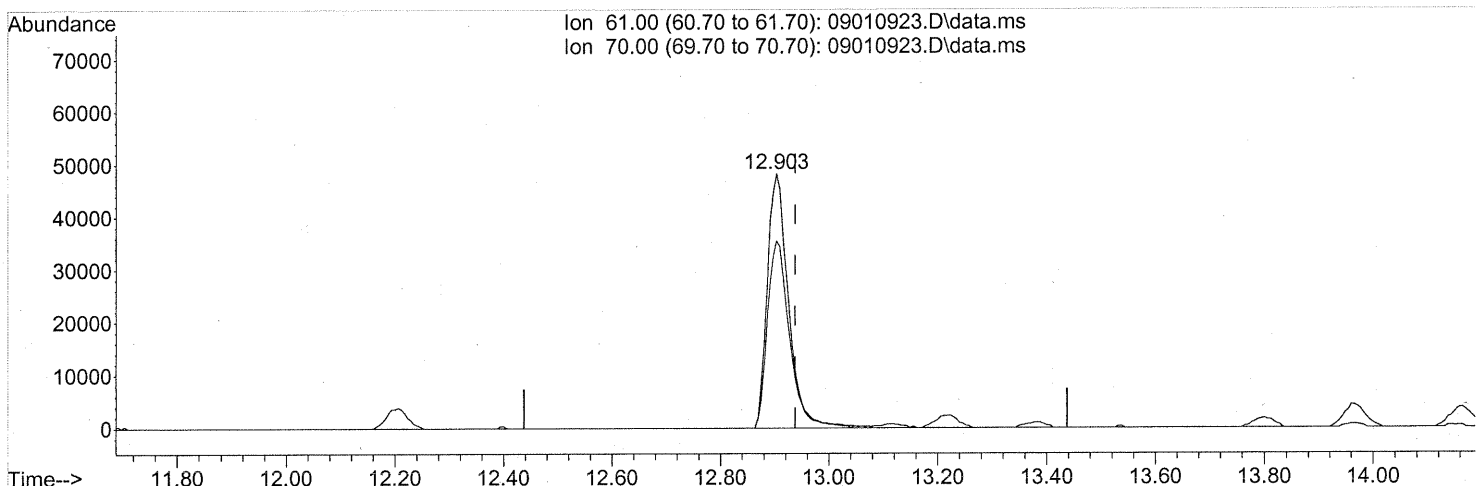
response 348330

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	405.29#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(30) Ethyl Acetate (T)

12.903min (-0.035) 14.51ng

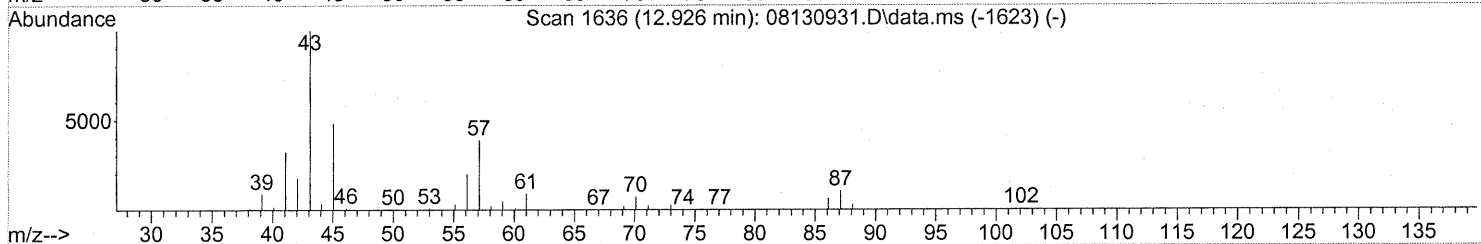
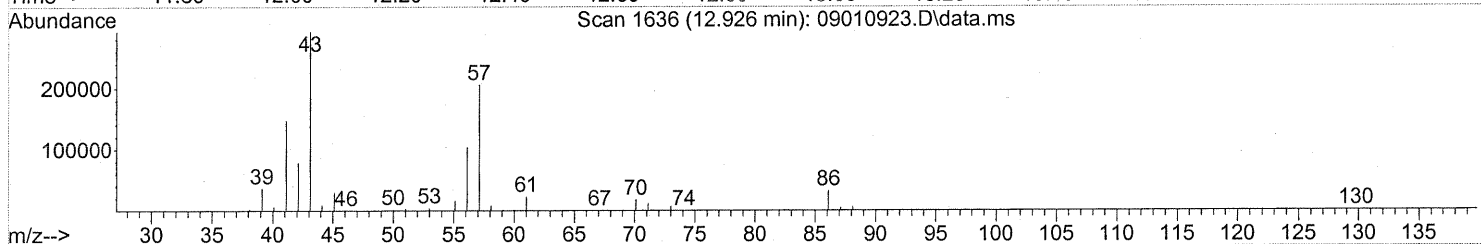
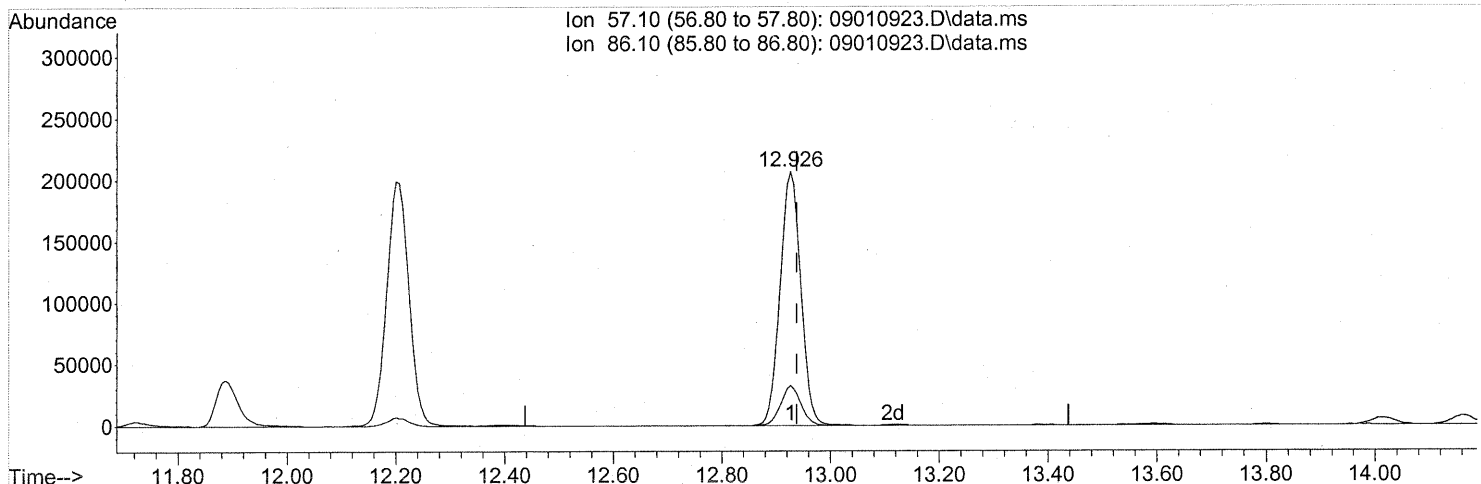
response 130651

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	76.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

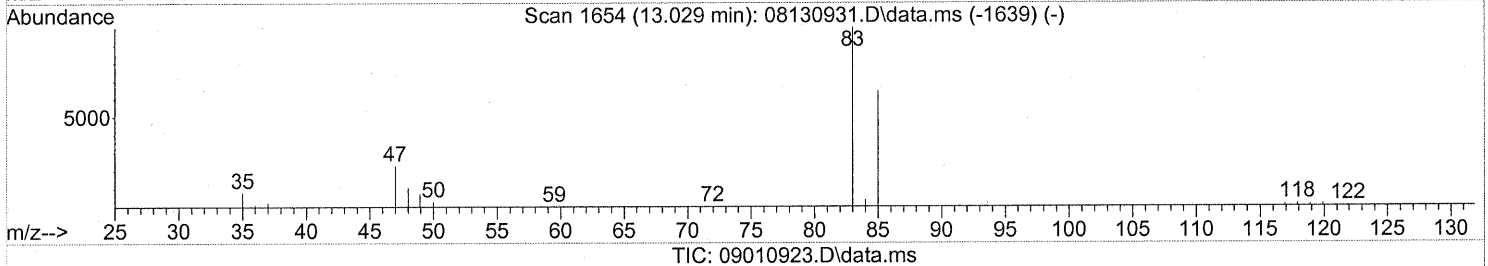
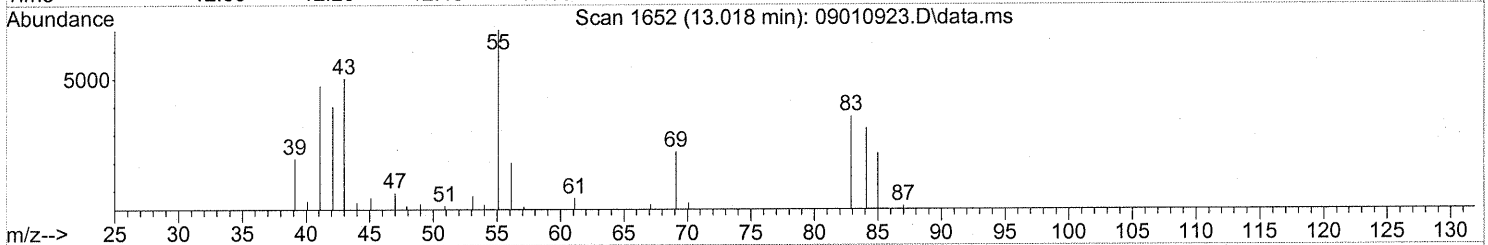
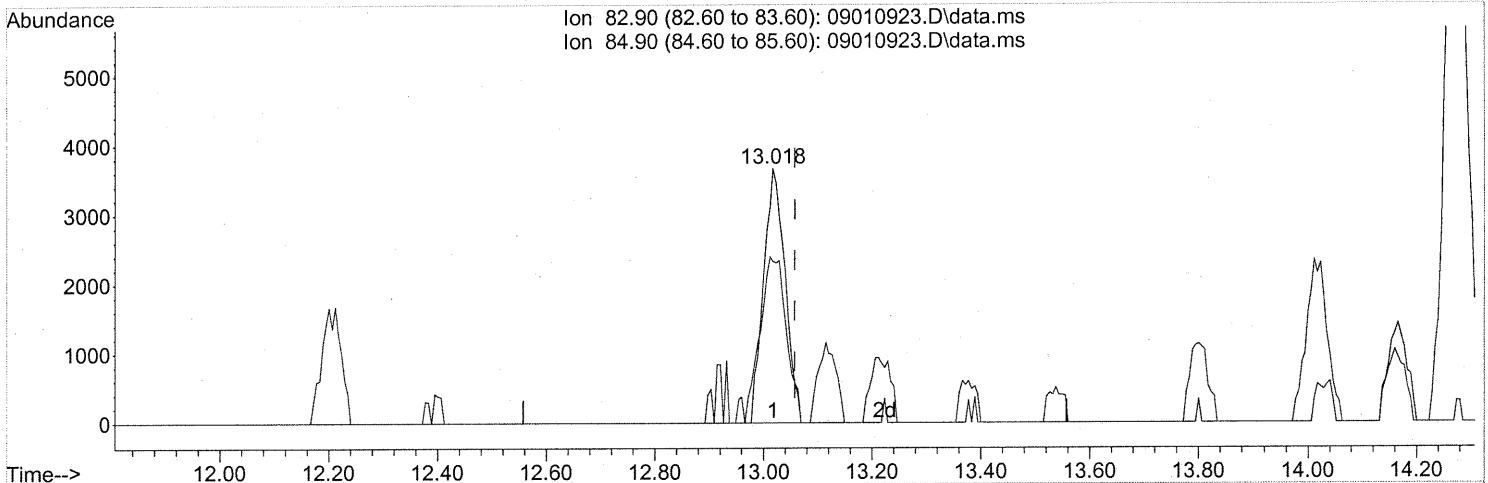
(31) n-Hexane (T)
 12.926min (-0.011) 12.37ng
 response 543030

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



(32) Chloroform (T)

13.018min (-0.040) 0.27ng

response 10084

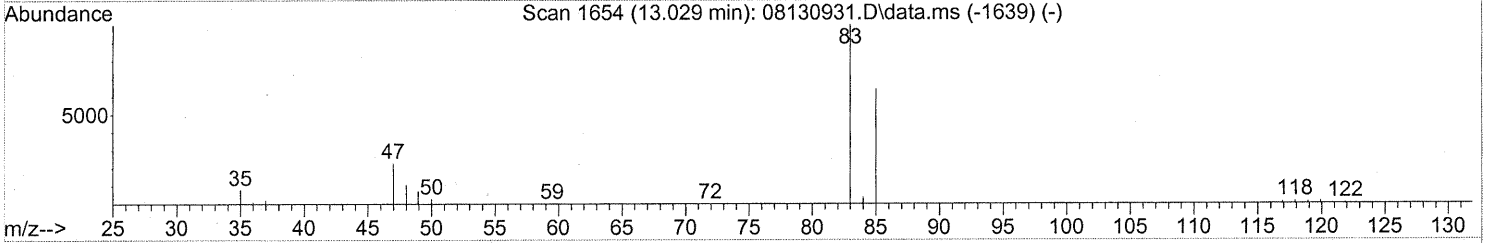
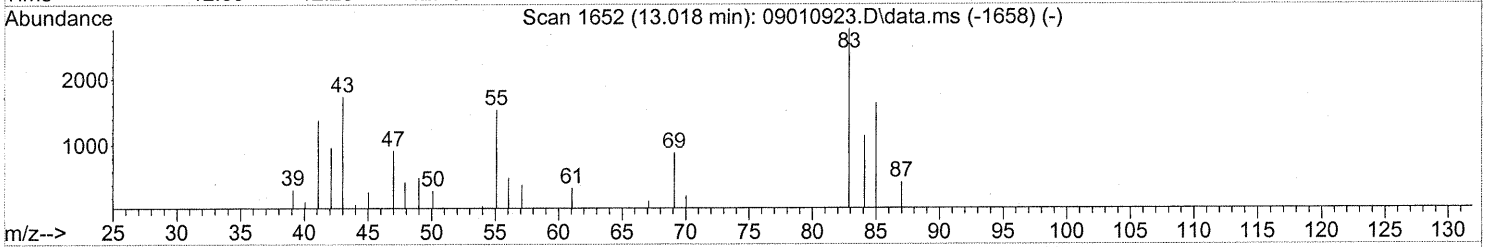
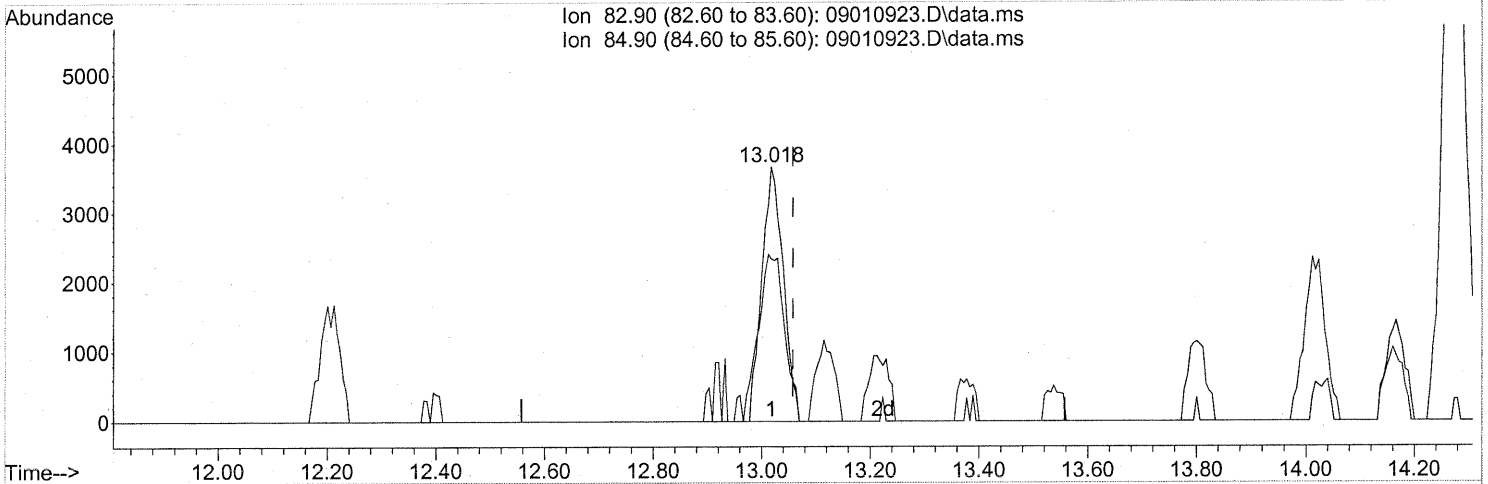
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	79.53
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



(32) Chloroform (T)

13.018min (-0.040) 0.27ng

response 10084

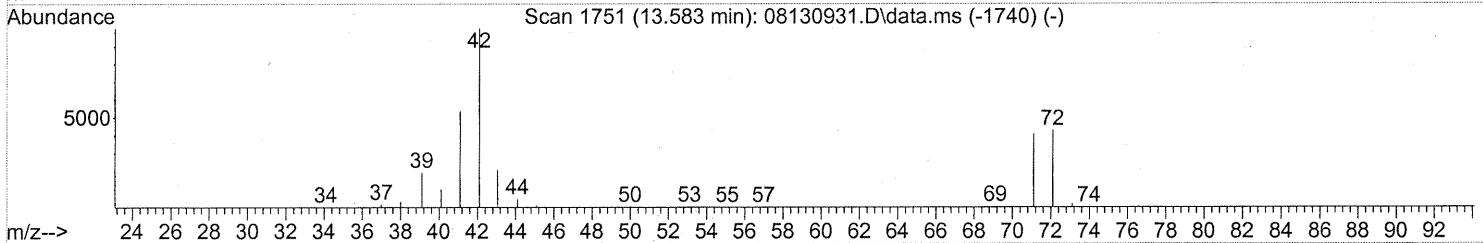
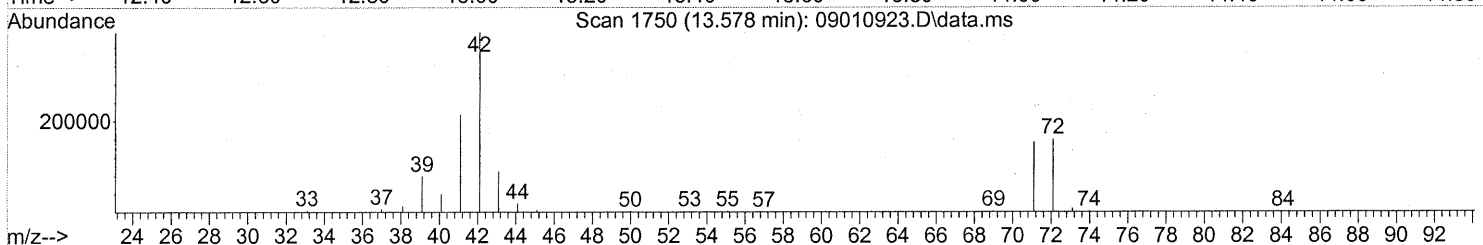
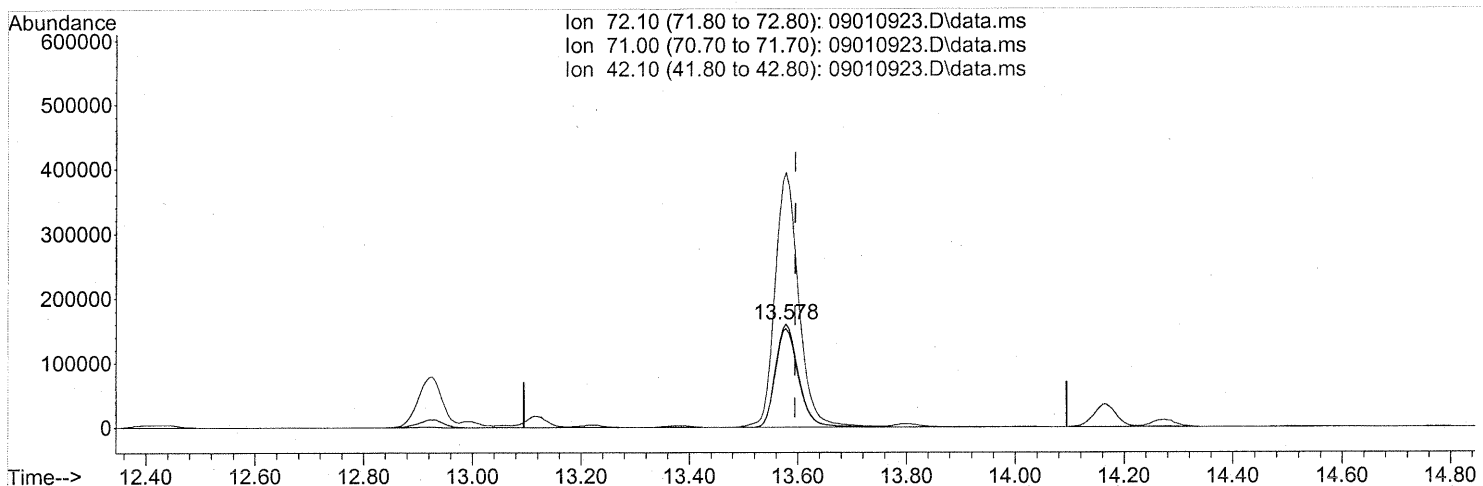
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	79.53
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 Com 9/8/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.578min (-0.017) 32.34ng

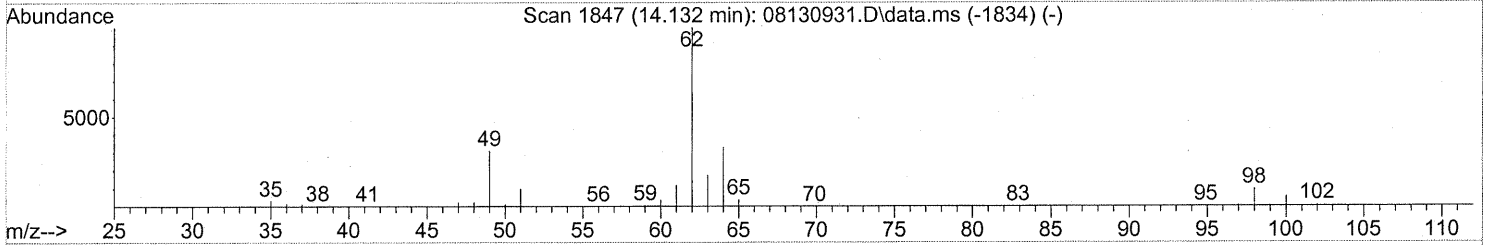
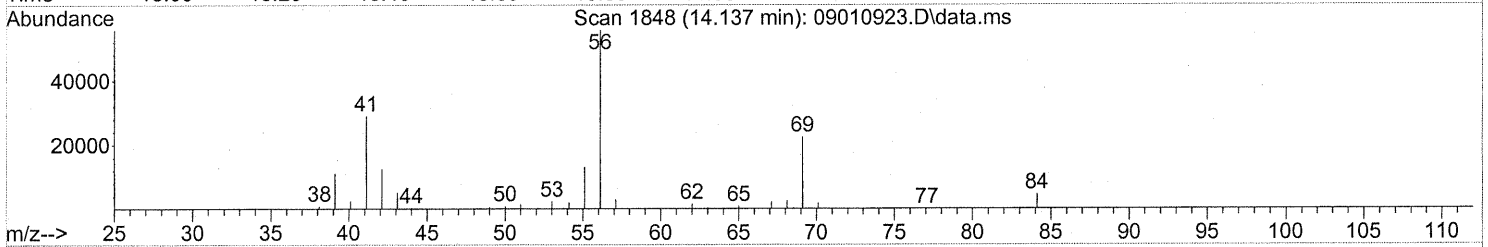
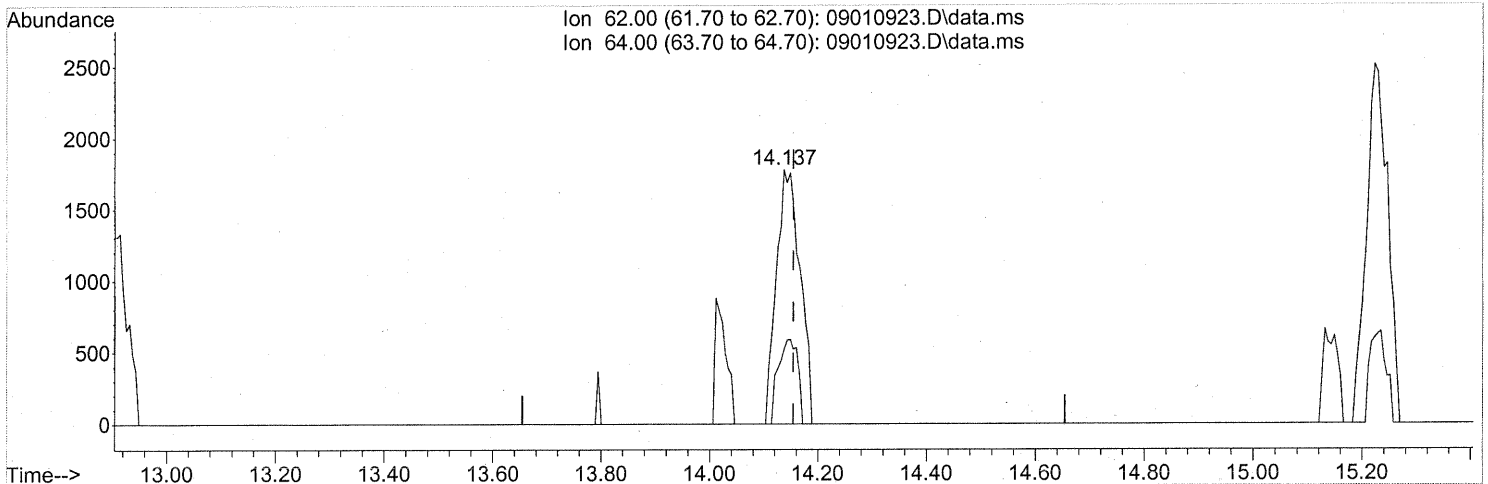
response 466811

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	95.67
42.10	206.50	255.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(36) 1,2-Dichloroethane (T)

14.137min (-0.017) 0.19ng

response 5398

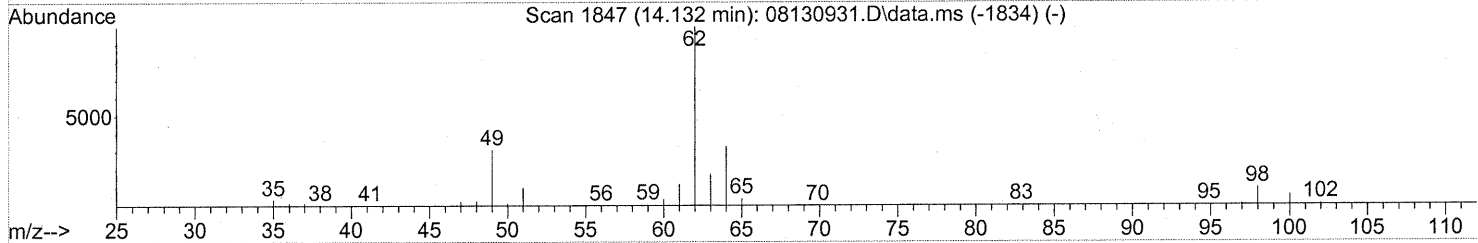
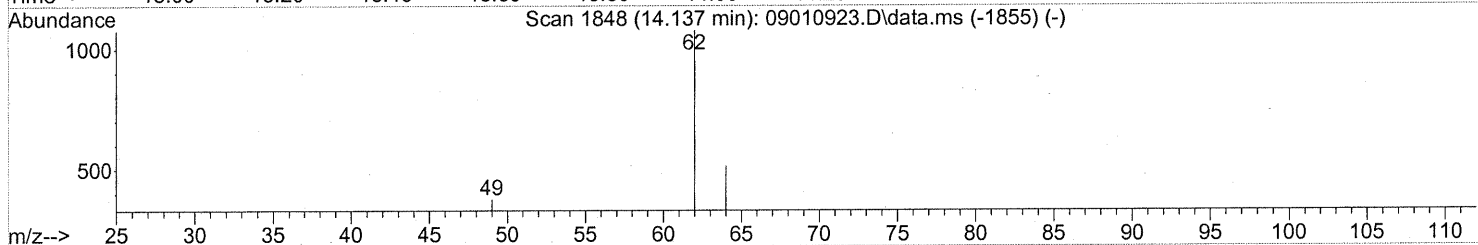
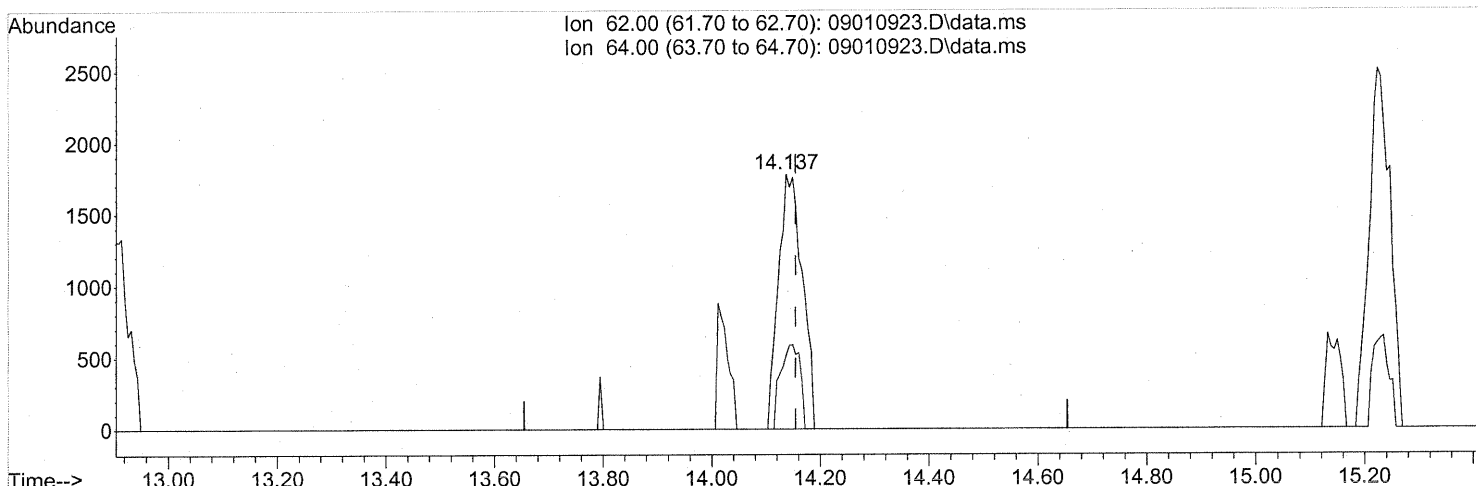
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	26.95
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



(36) 1,2-Dichloroethane (T)

14.137min (-0.017) 0.19ng

response 5398

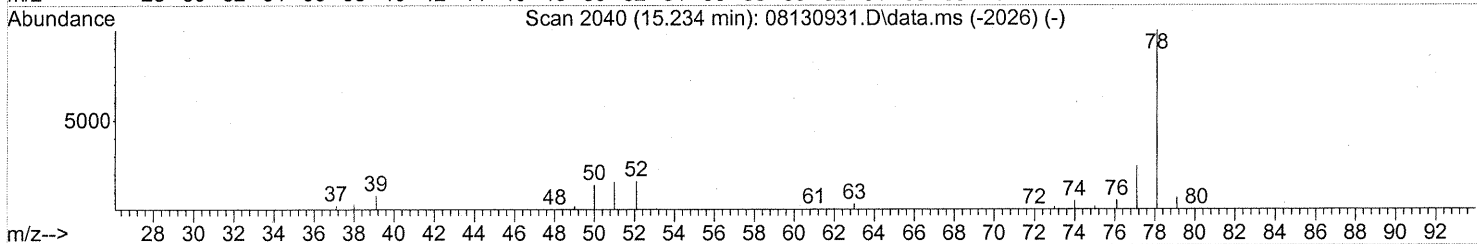
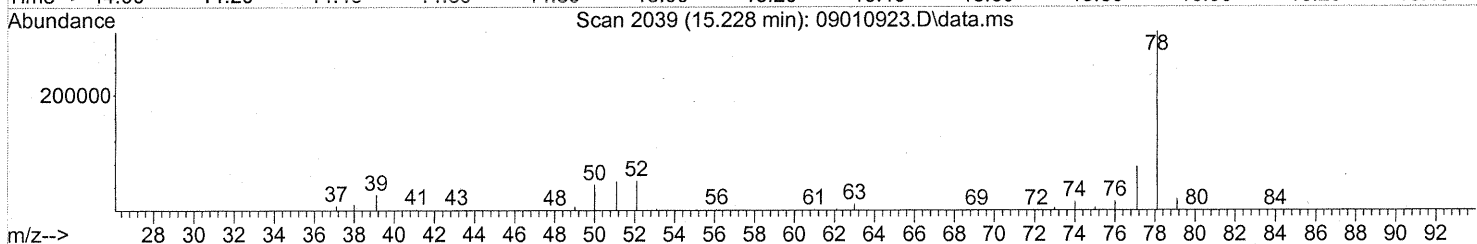
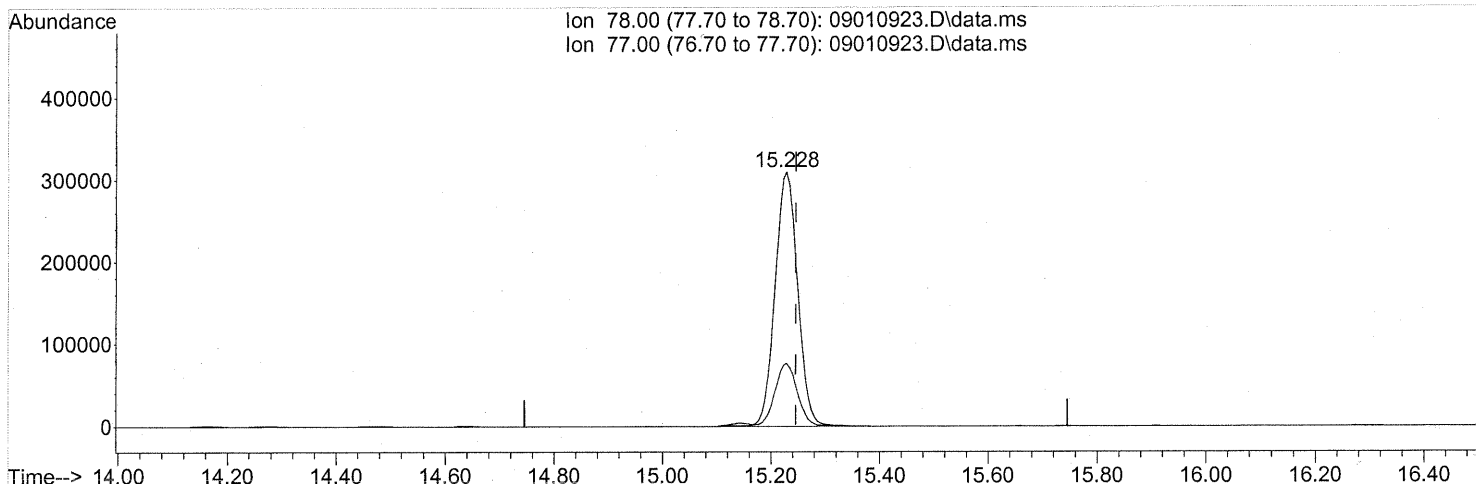
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	26.95
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
Em 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

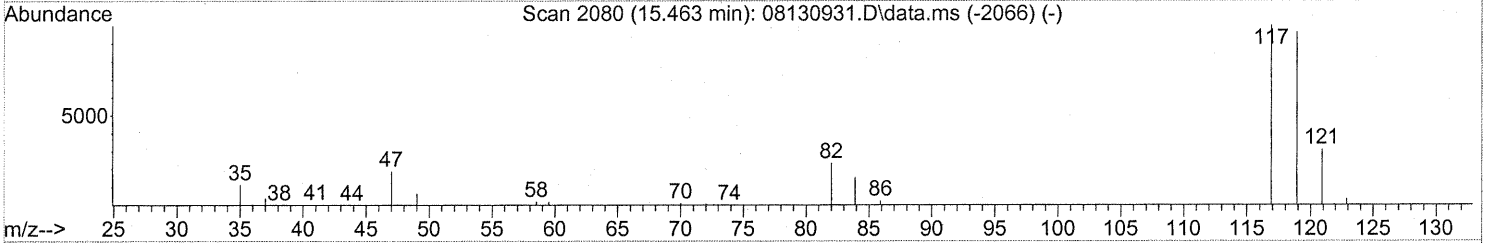
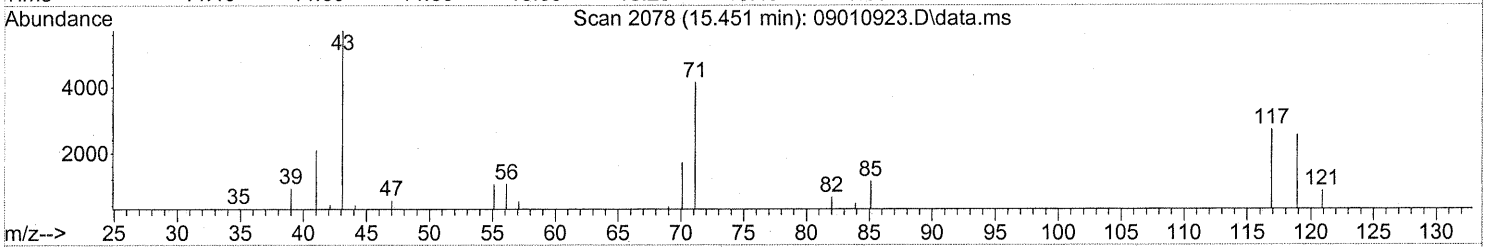
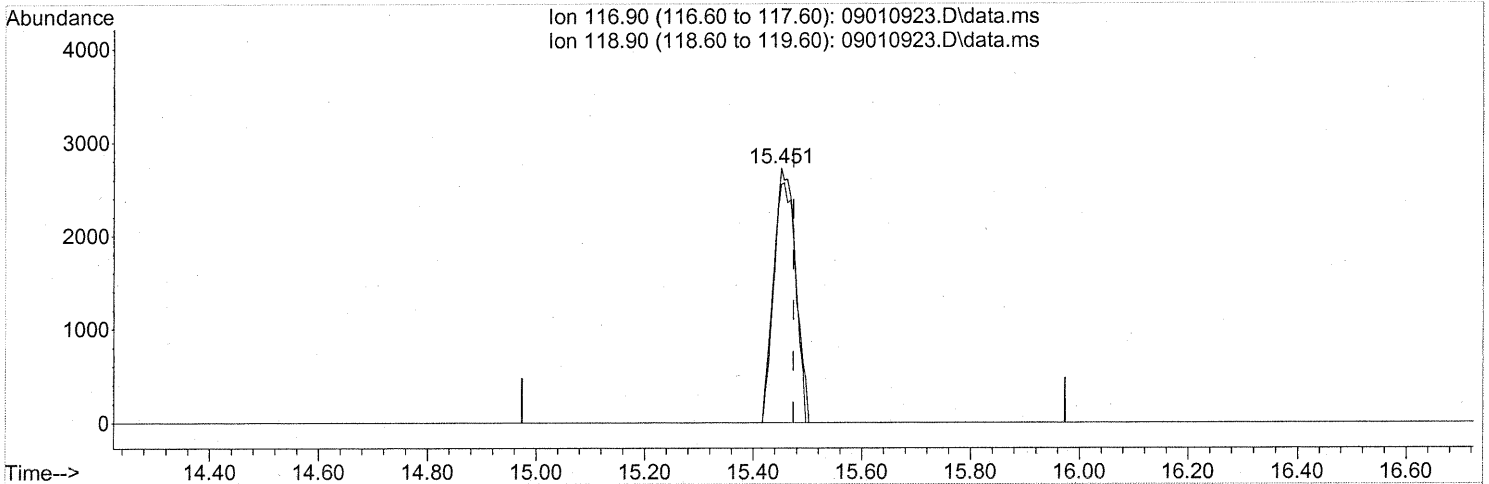
(41) Benzene (T)
 15.228min (-0.017) 9.17ng
 response 891185

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(42) Carbon Tetrachloride (T)

15.451min (-0.023) 0.28ng

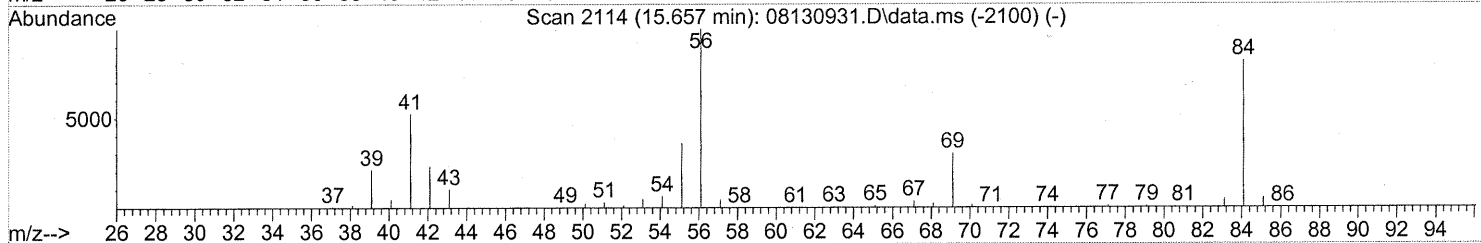
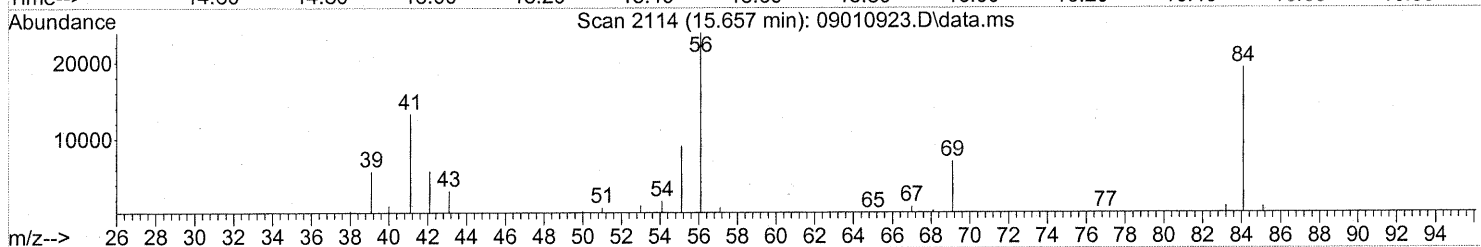
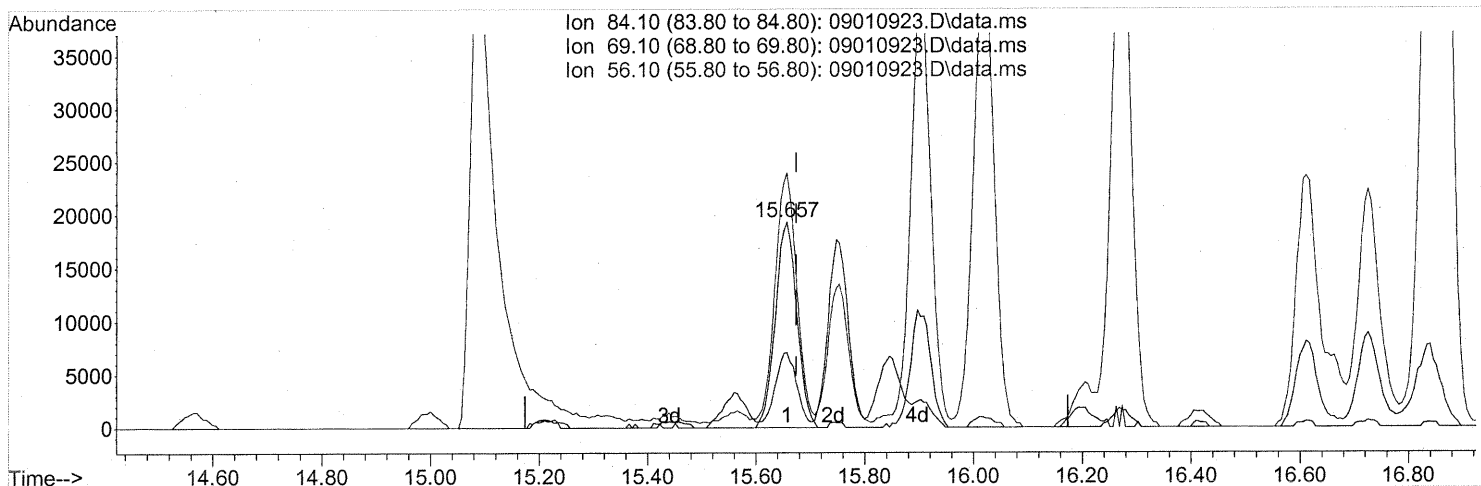
response 7713

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	92.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

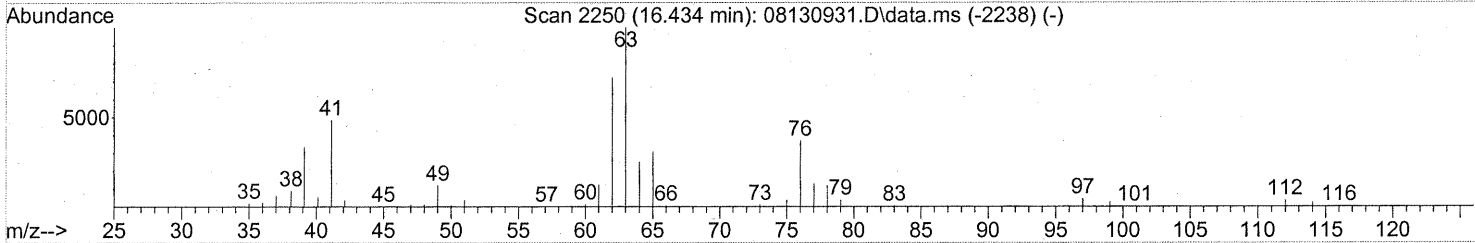
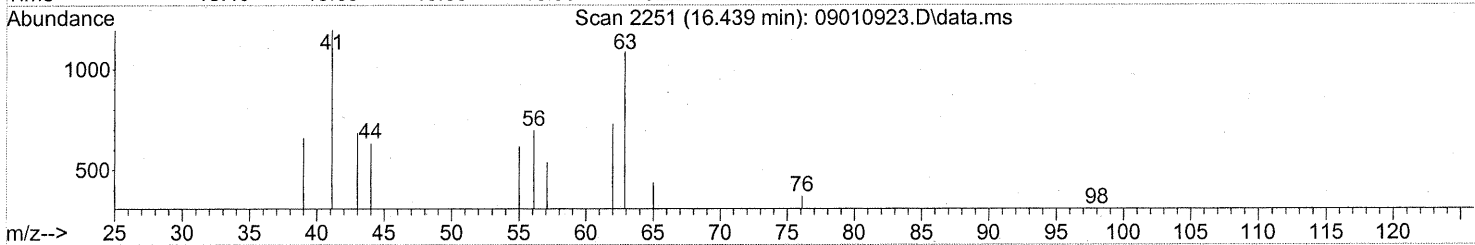
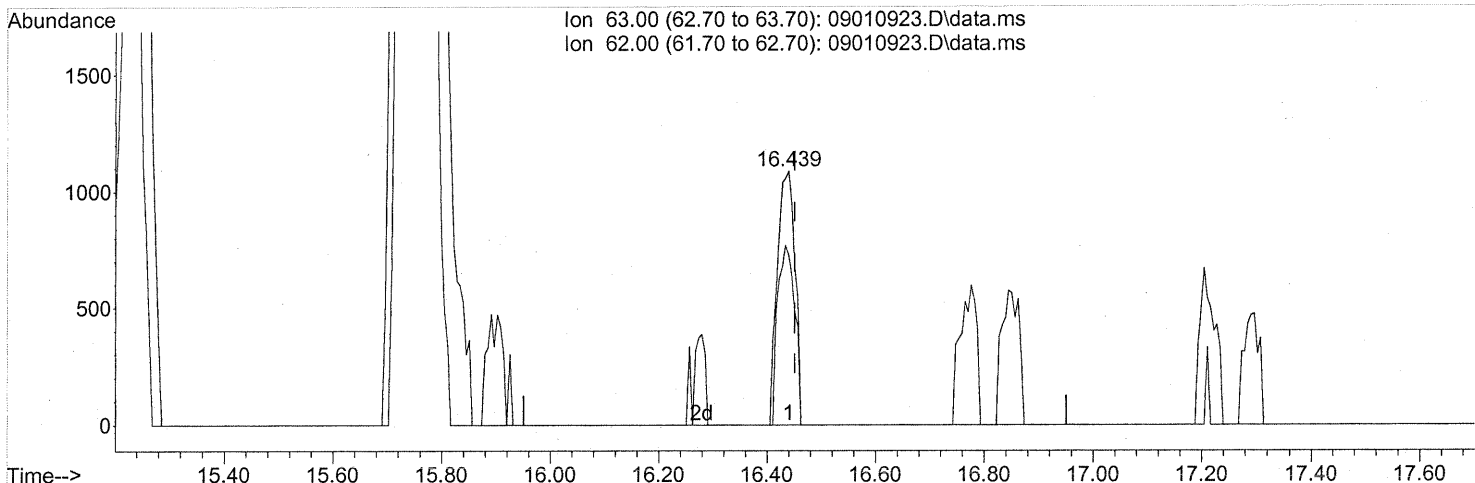
(43) Cyclohexane (T)
 15.657min (-0.017) 1.41ng
 response 52947

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	37.09
56.10	107.30	124.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



(45) 1,2-Dichloropropane (T)

16.439min (-0.011) 0.10ng

response 2435

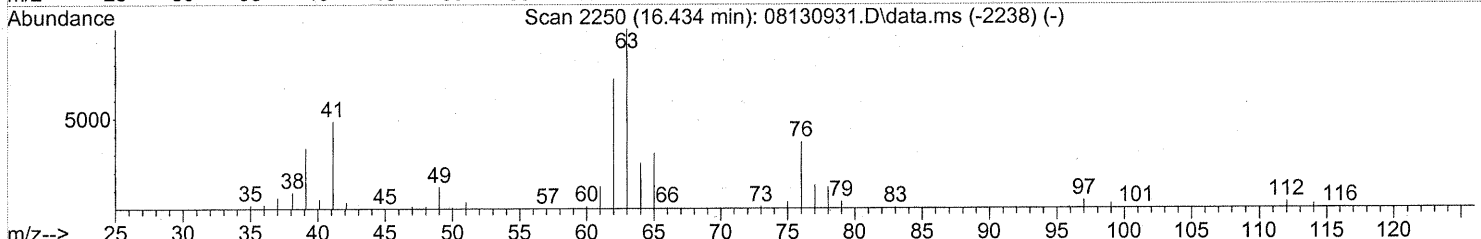
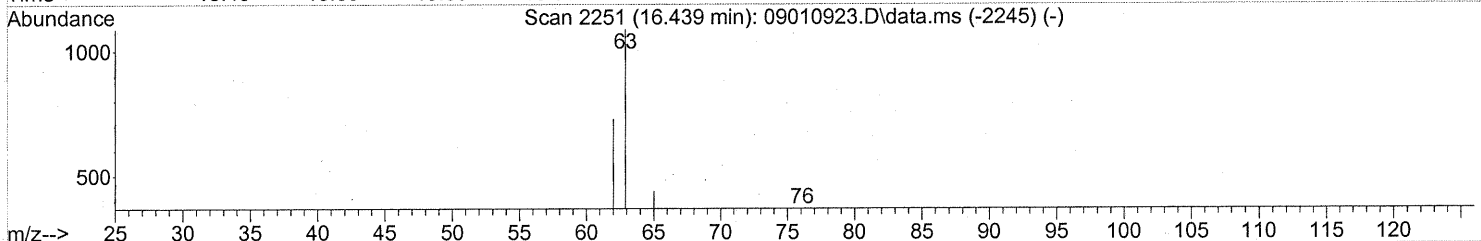
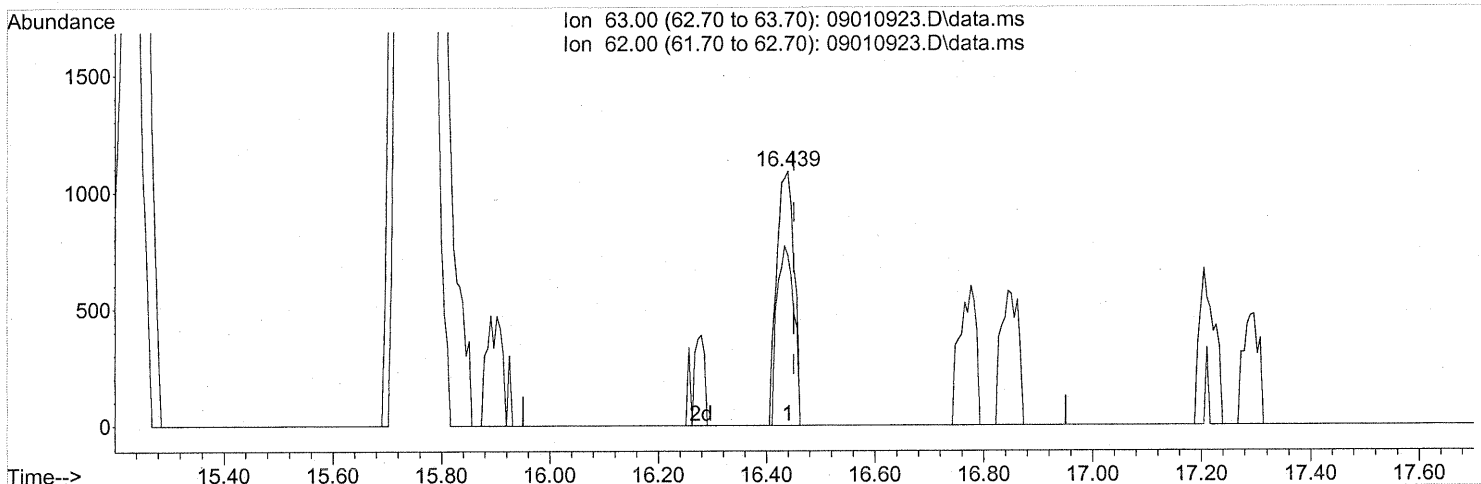
Ion	Exp%	Act%
63.00	100	100
62.00	71.00	67.93
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



(45) 1,2-Dichloropropane (T)

16.439min (-0.011) 0.10ng

response 2435

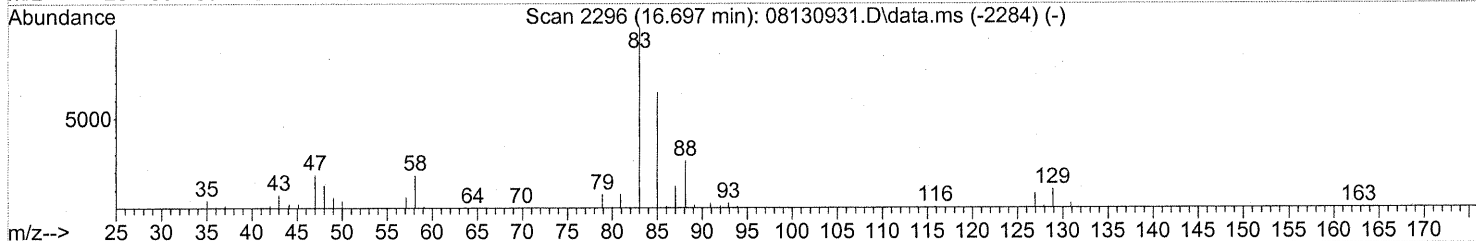
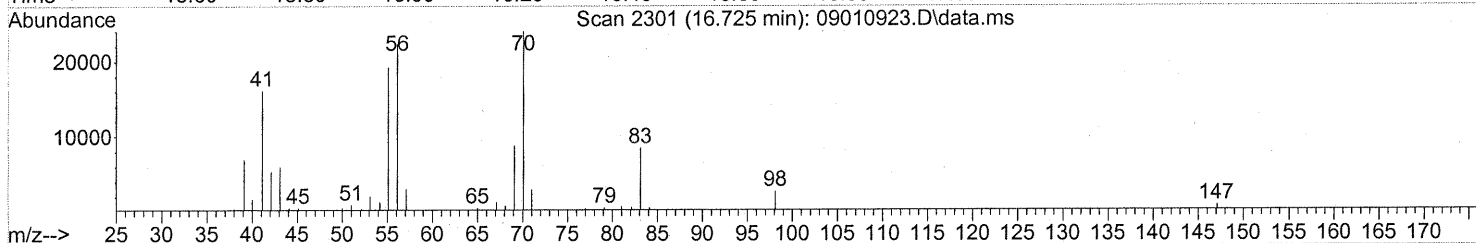
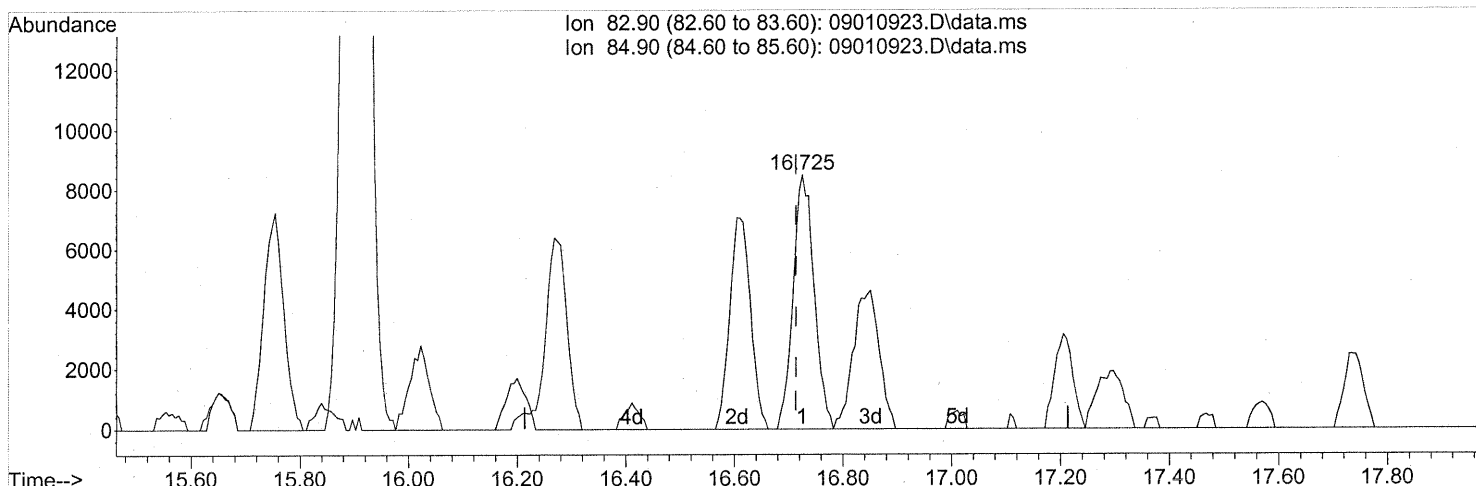
Ion	Exp%	Act%
63.00	100	100
62.00	71.00	67.93
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 em 9/8/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



(46) Bromodichloromethane (T)

16.725min (+0.011) 0.80ng

response 22732

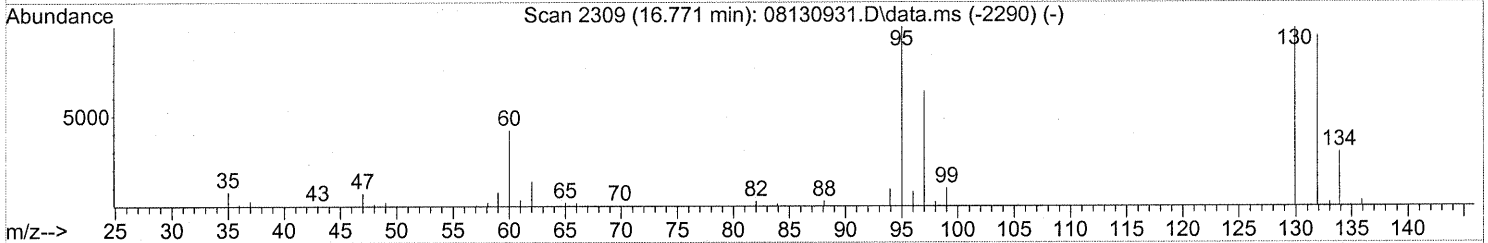
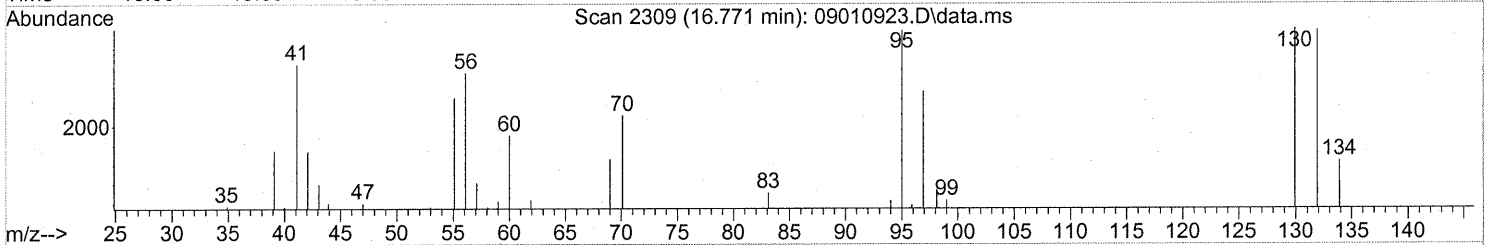
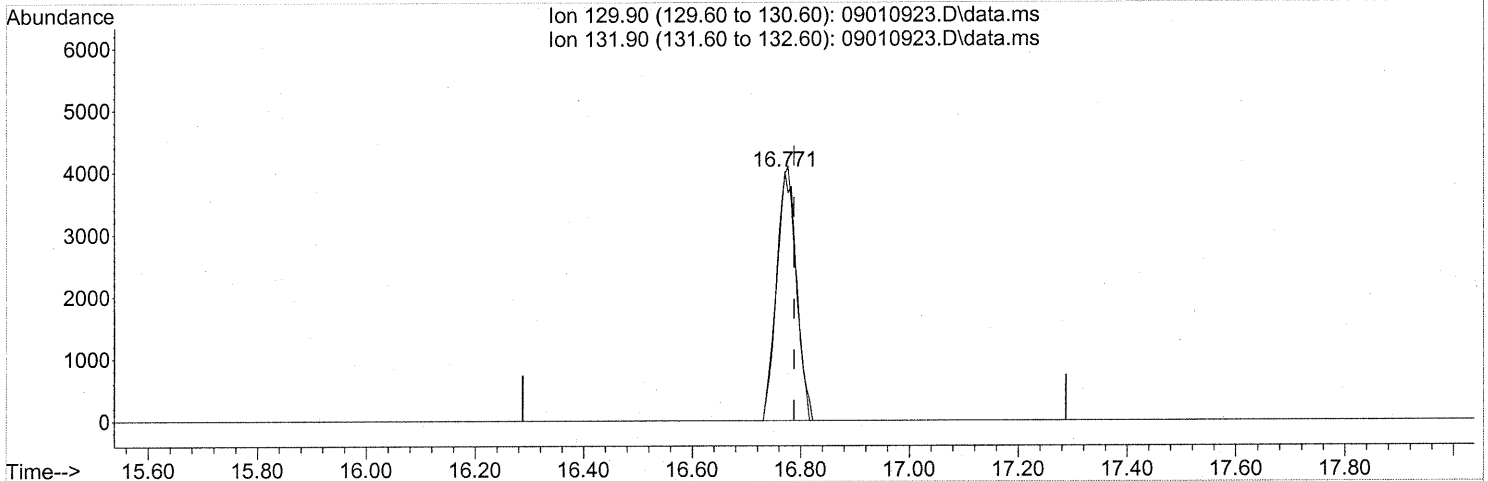
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 9/8/09
KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

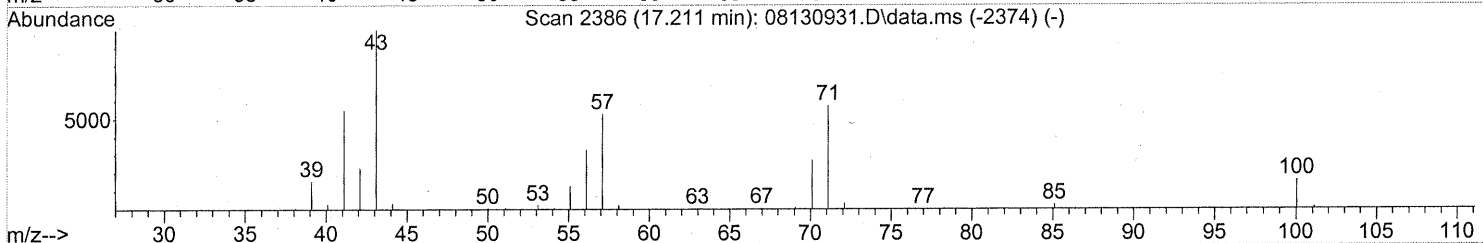
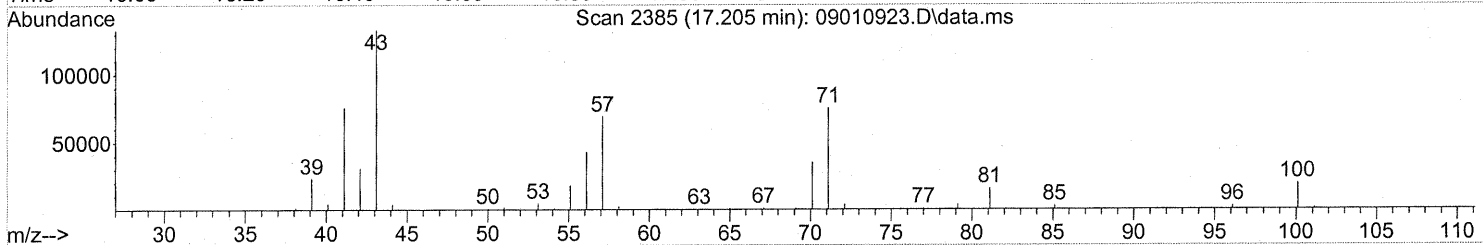
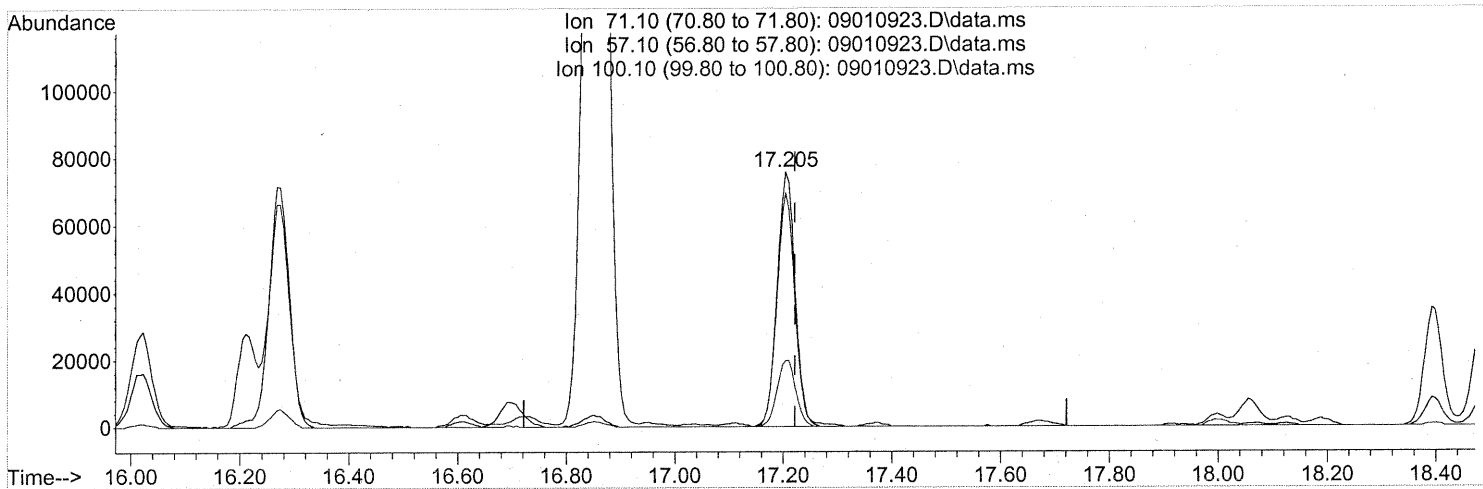
(47) Trichloroethene (T)
 16.771min (-0.017) 0.42ng
 response 10426

Ion	Exp%	Act%
129.90	100	100
131.90	95.60	96.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

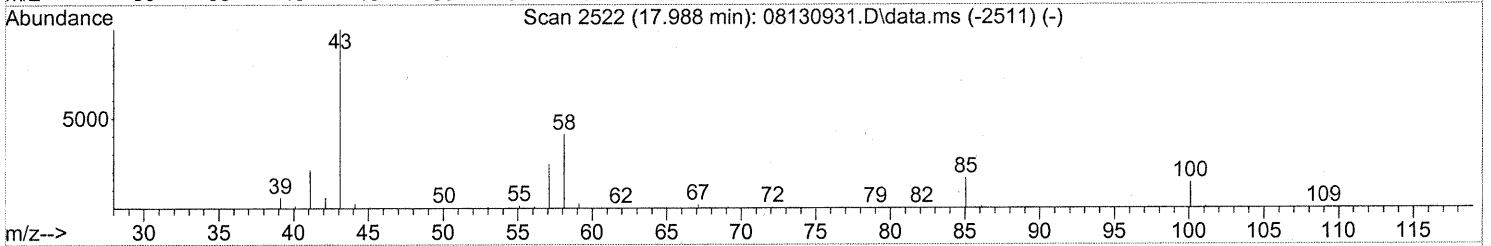
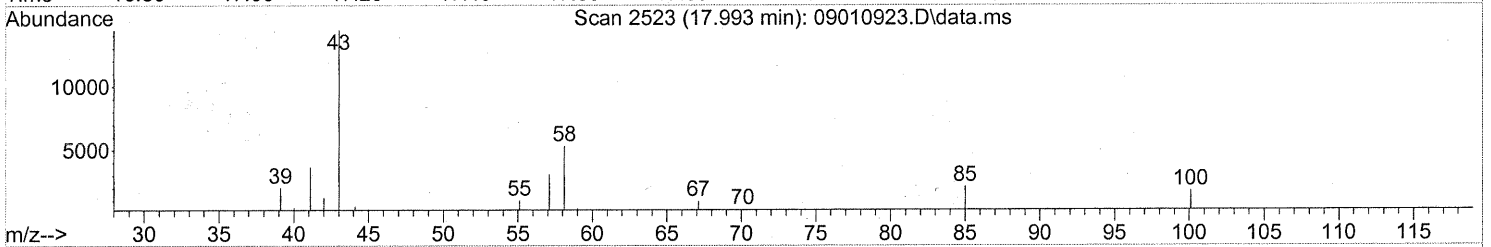
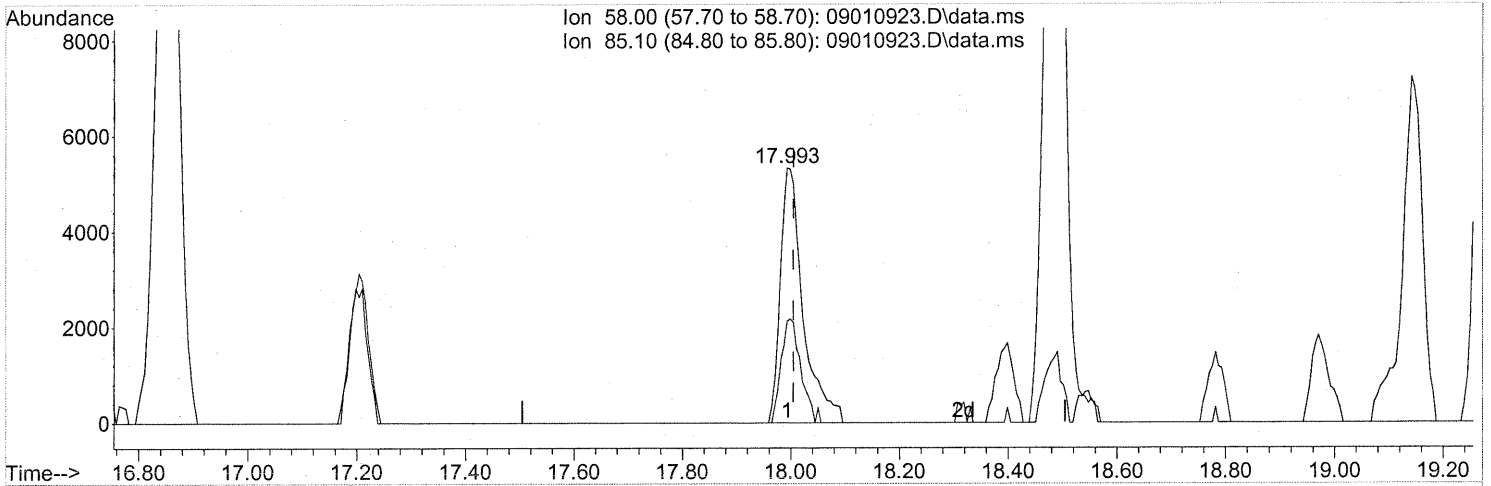
(51) n-Heptane (T)
 17.205min (-0.017) 6.67ng
 response 172426

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	93.58
100.10	30.70	27.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

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

17.993min (-0.012) 0.74ng

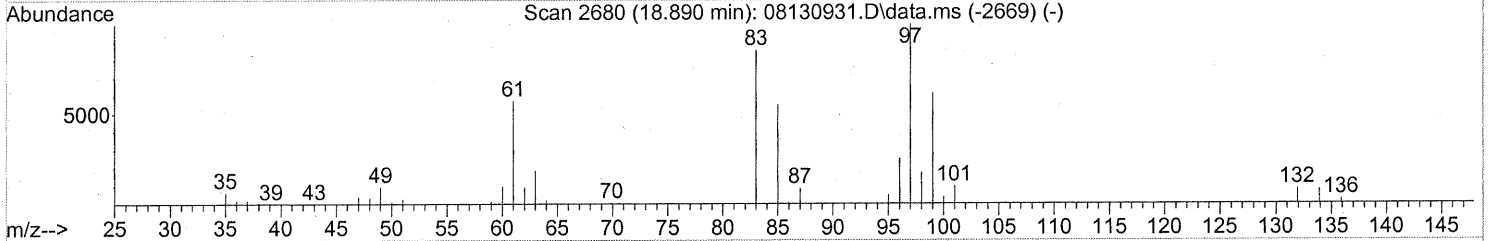
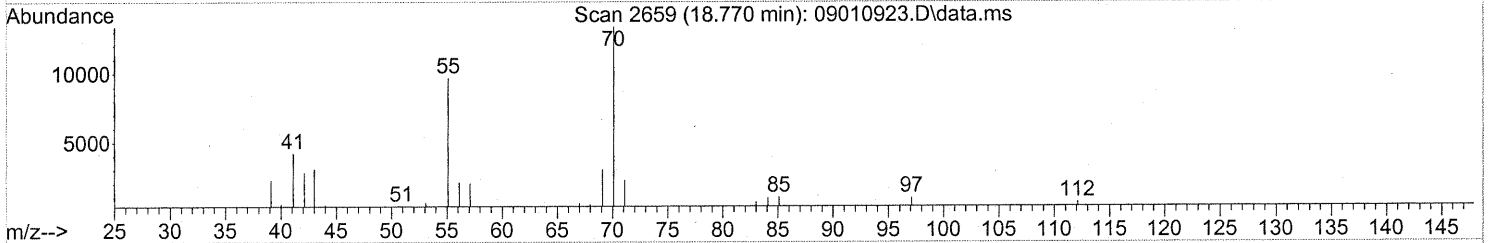
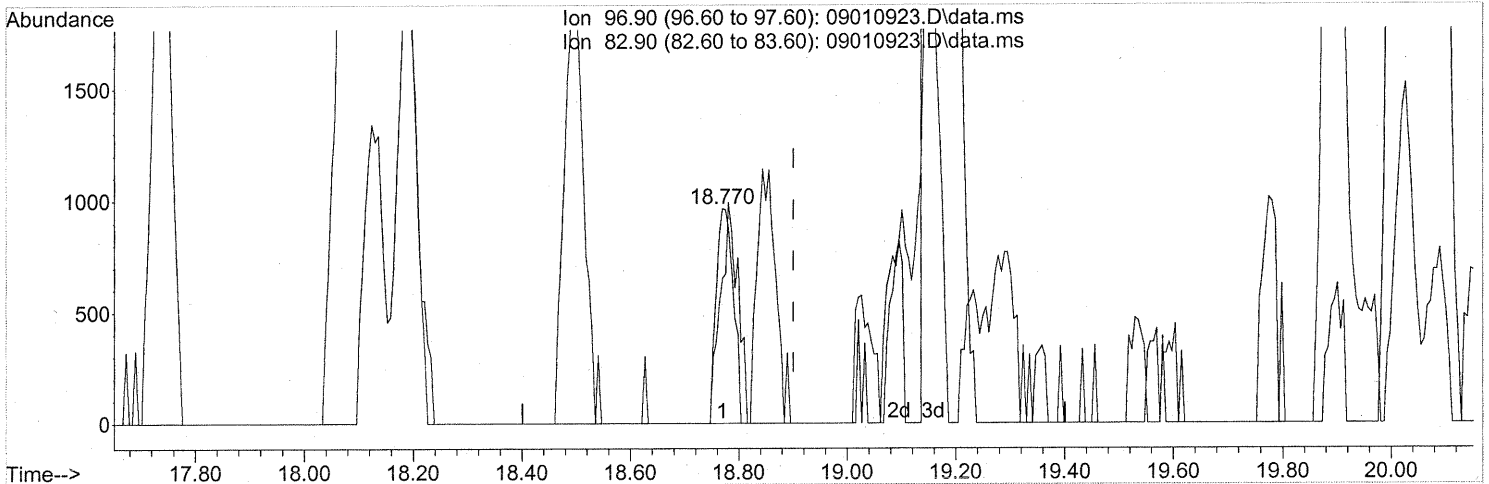
response 15508

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	35.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



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

18.770min (-0.131) 0.10ng

response 2119

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	104.86
0.00	0.00	0.00
0.00	0.00	0.00

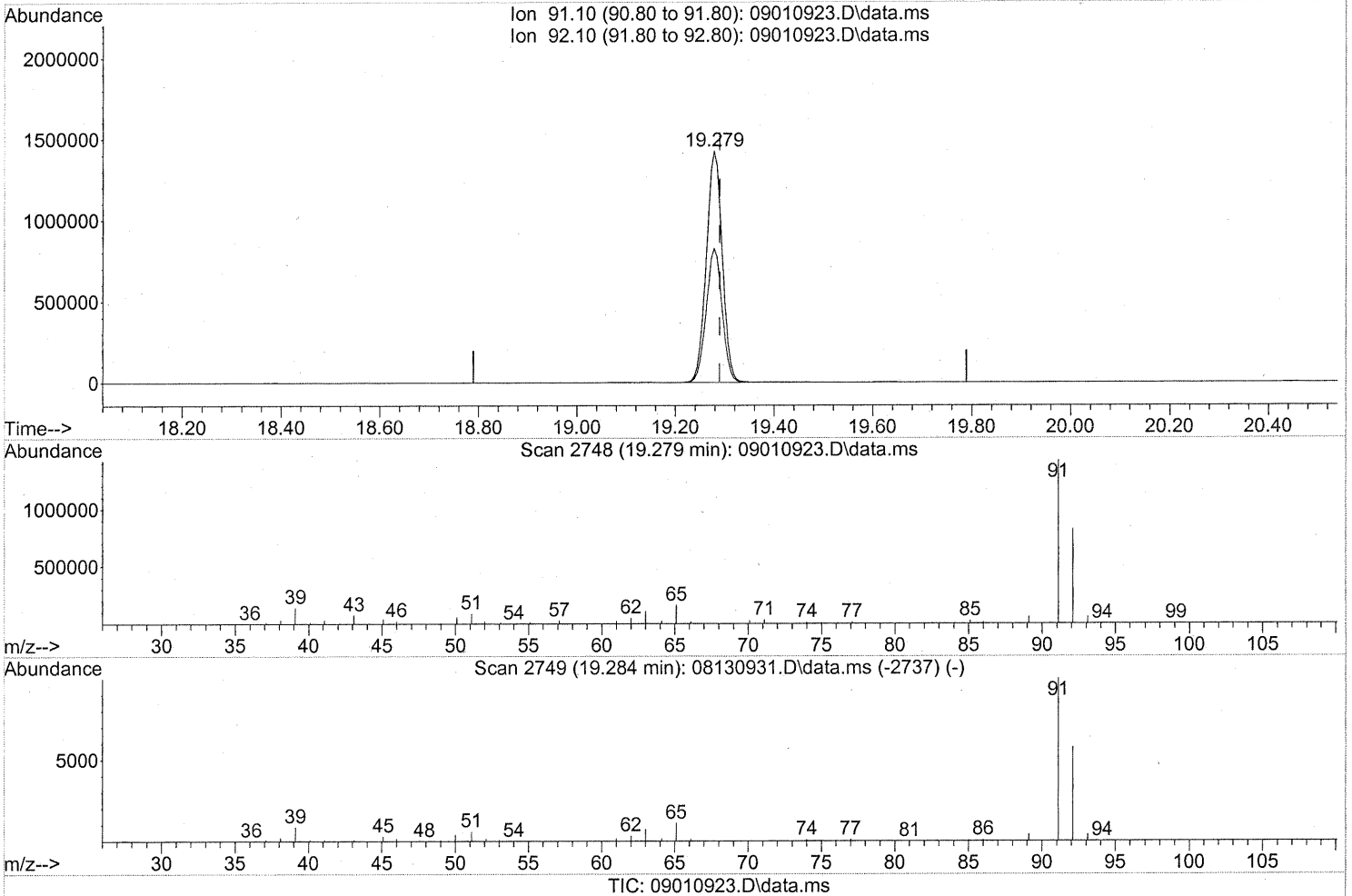
TP em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



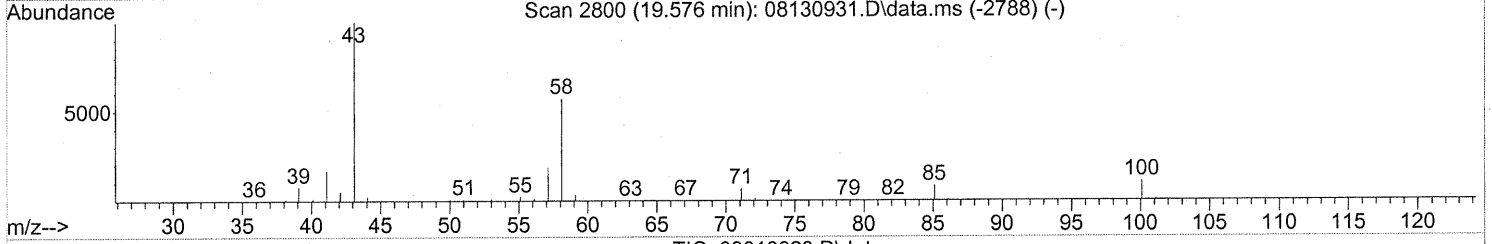
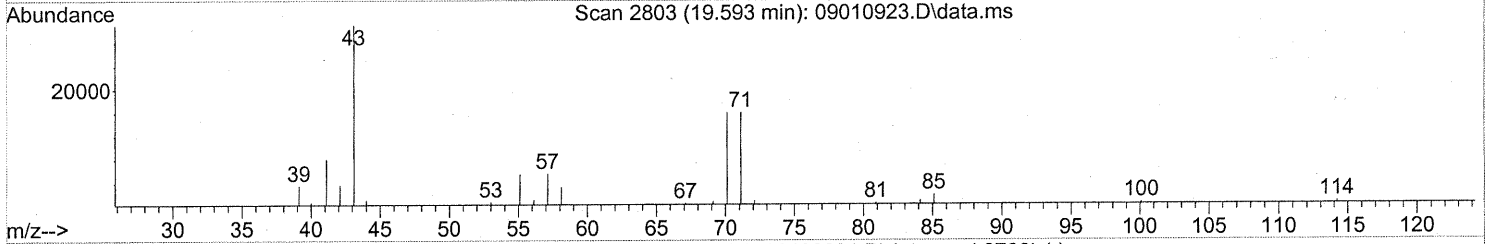
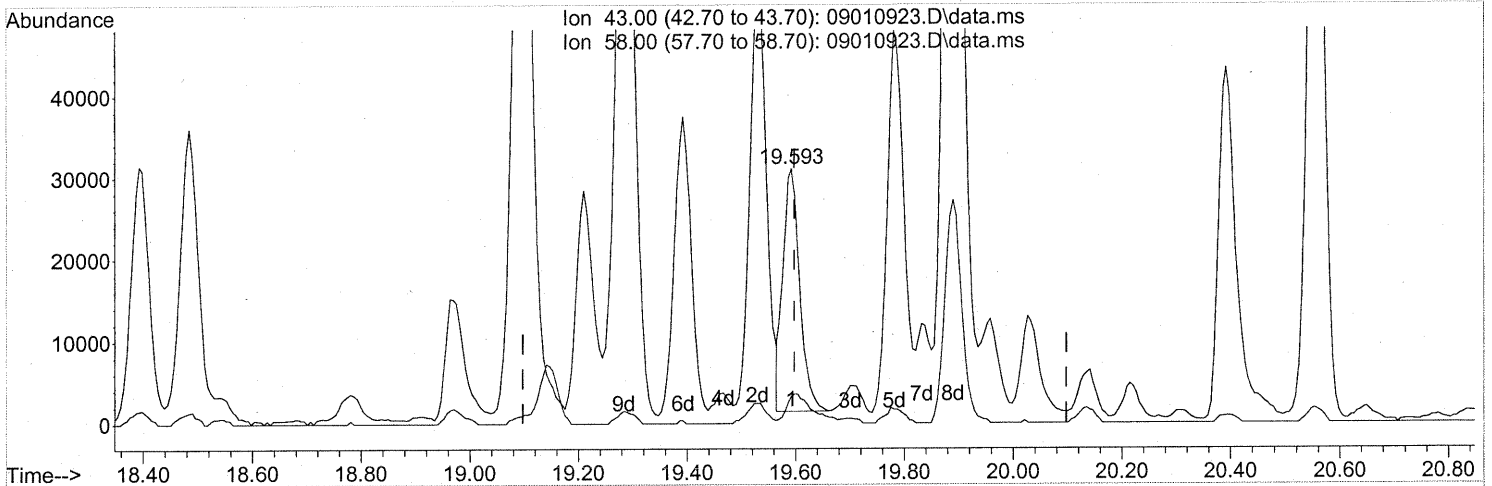
(58) Toluene (T)
 19.279min (-0.011) 31.13ng
 response 3179518

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



(59) 2-Hexanone (T)
 19.593min (-0.005) 1.20ng
 response 63665

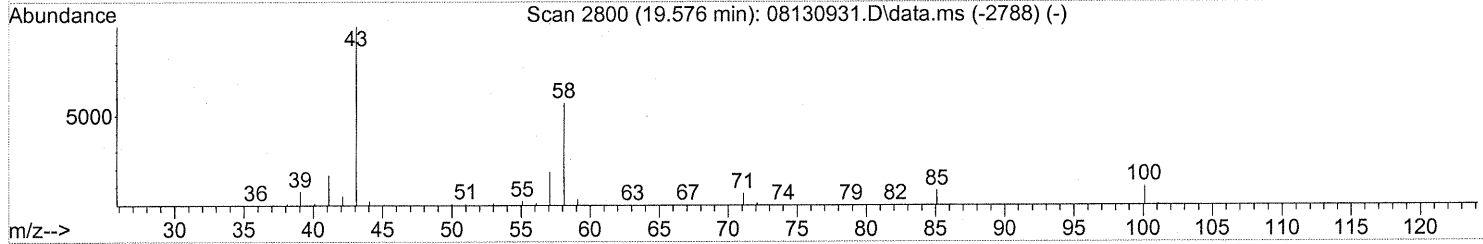
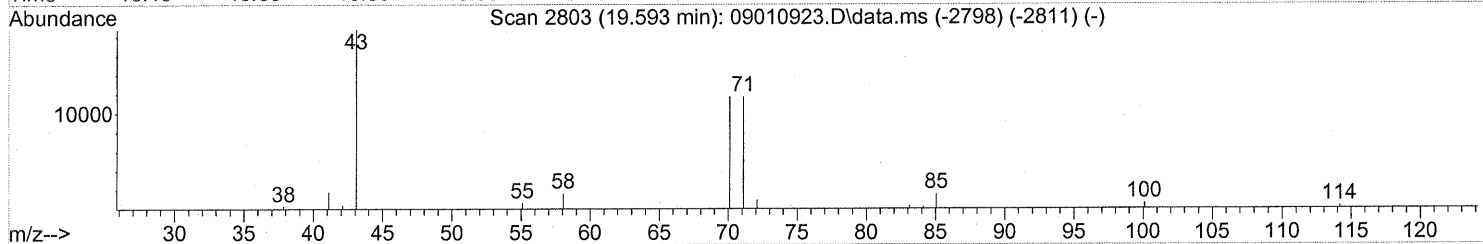
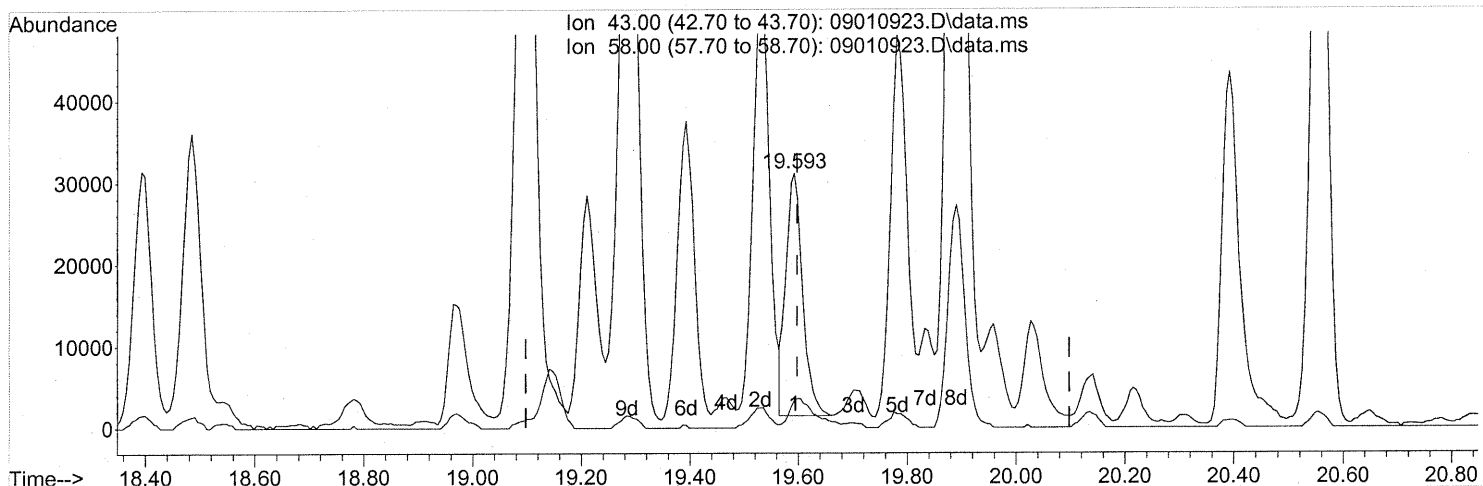
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	20.09#
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(59) 2-Hexanone (T)

19.593min (-0.005) 1.20ng

response 63665

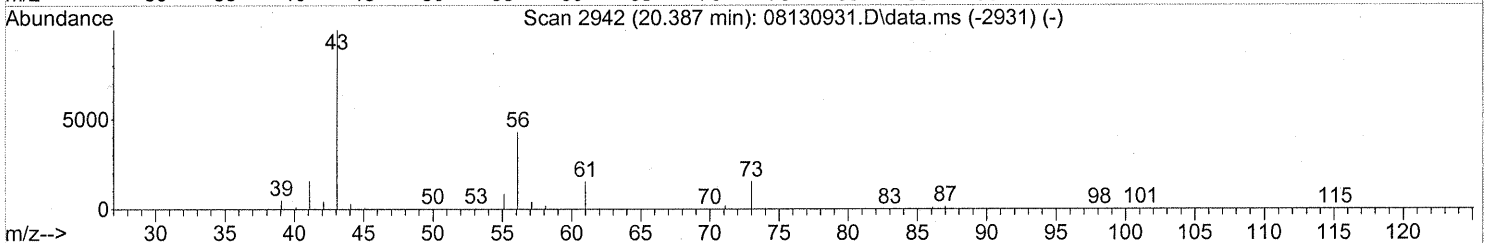
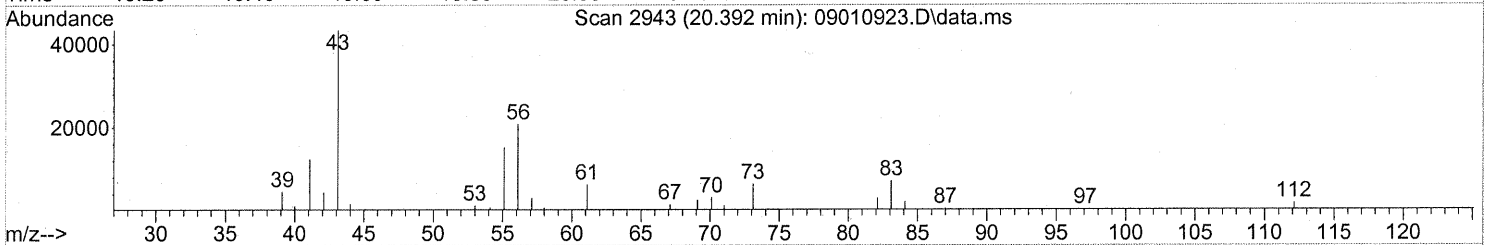
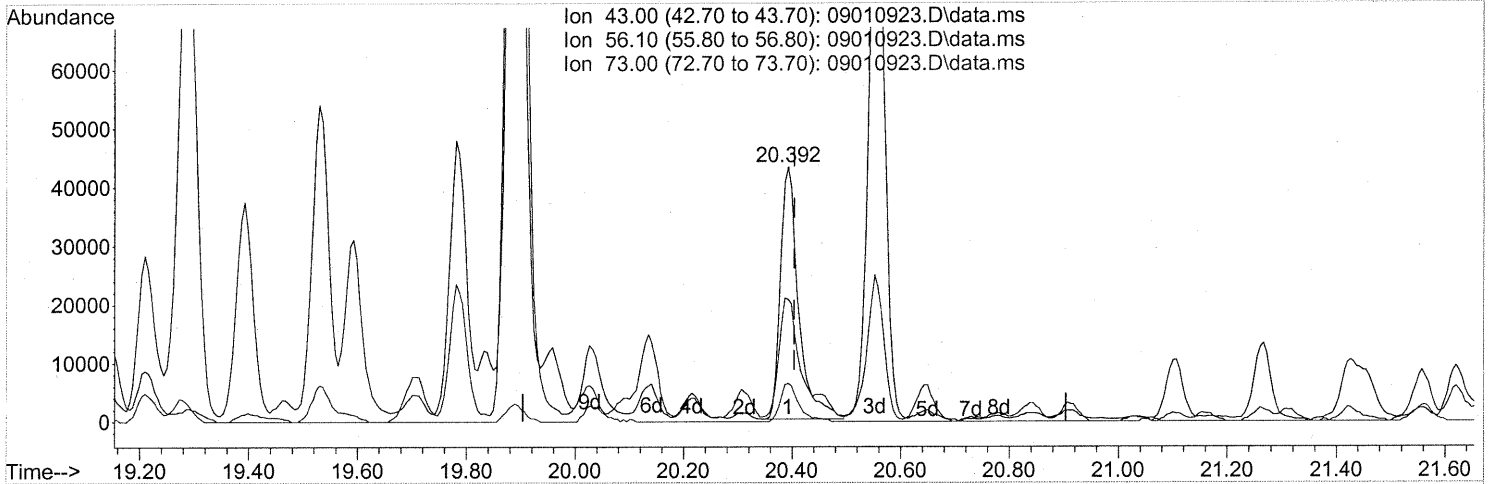
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	20.09#
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 8m 9/8/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

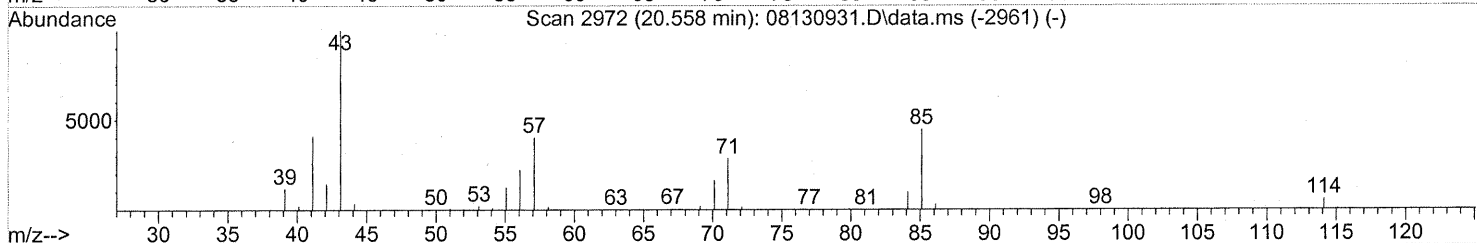
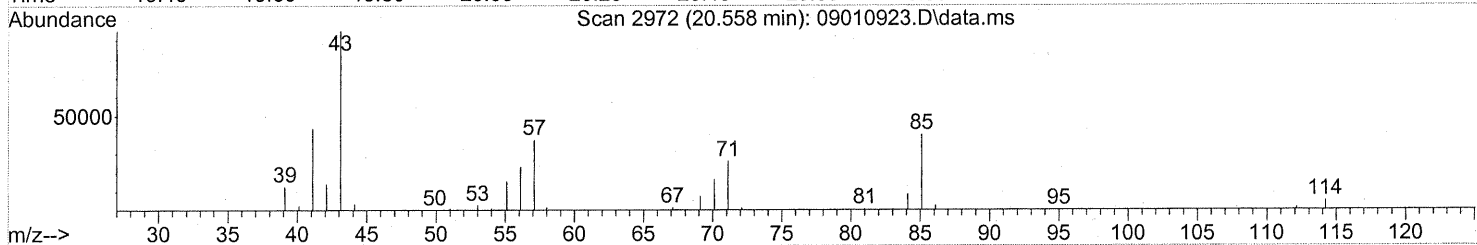
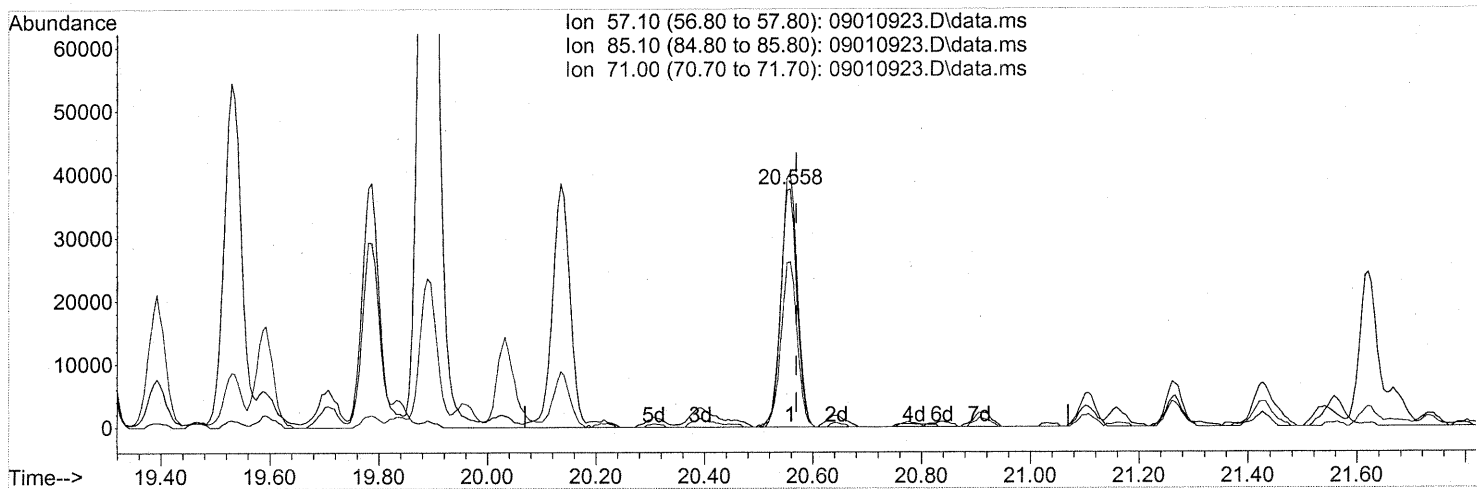
(62) n-Butyl Acetate (T)
 20.392min (-0.012) 1.72ng
 response 99703

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	57.95
73.00	16.90	15.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

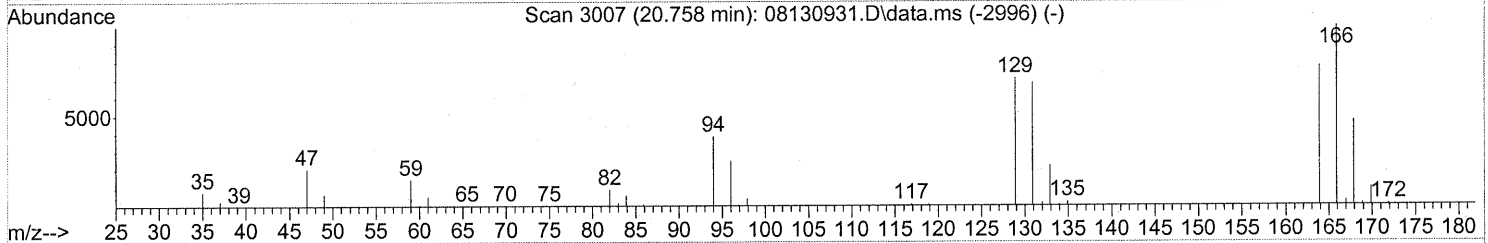
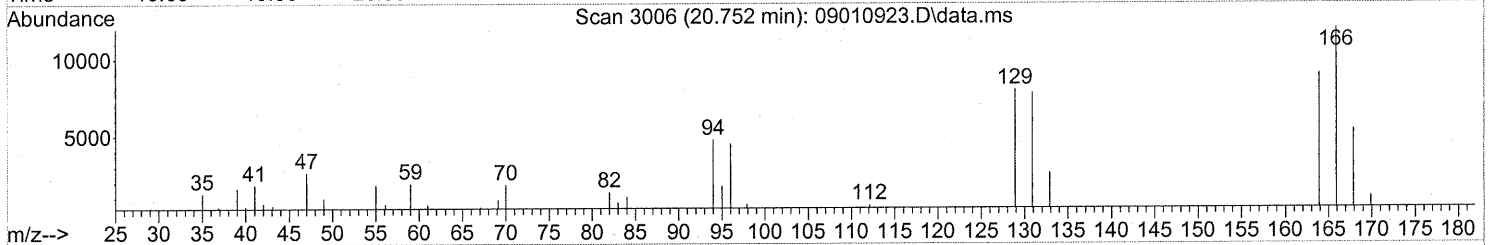
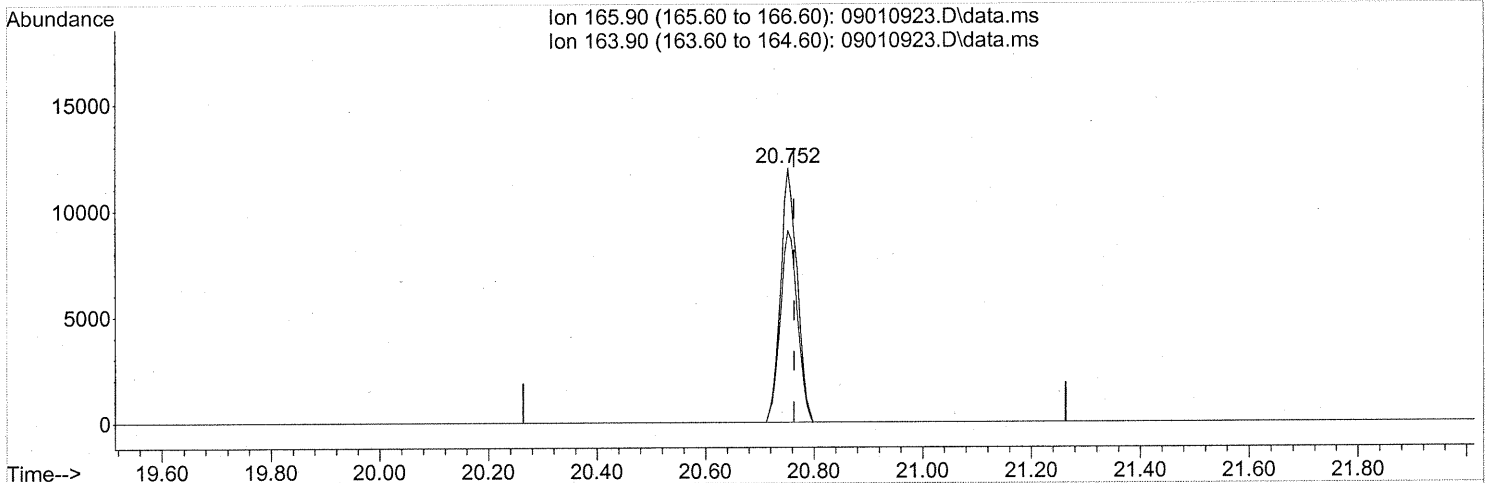
(63) n-Octane (T)
 20.558min (-0.011) 3.46ng
 response 78841

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	104.89
71.00	75.10	68.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(64) Tetrachloroethene (T)

20.752min (-0.011) 1.00ng

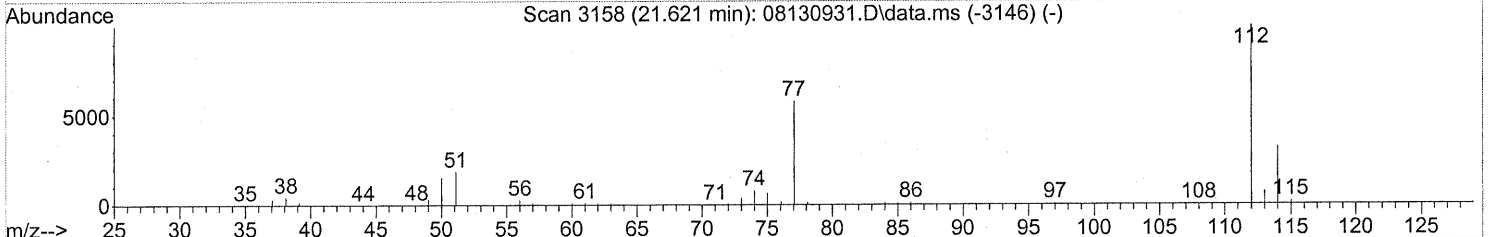
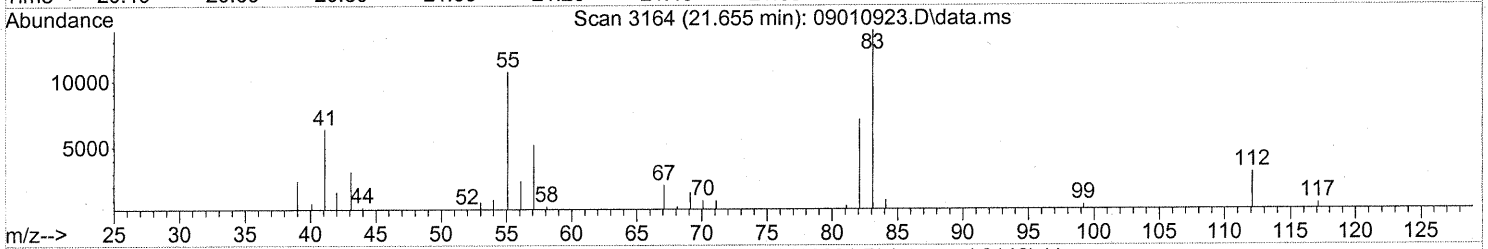
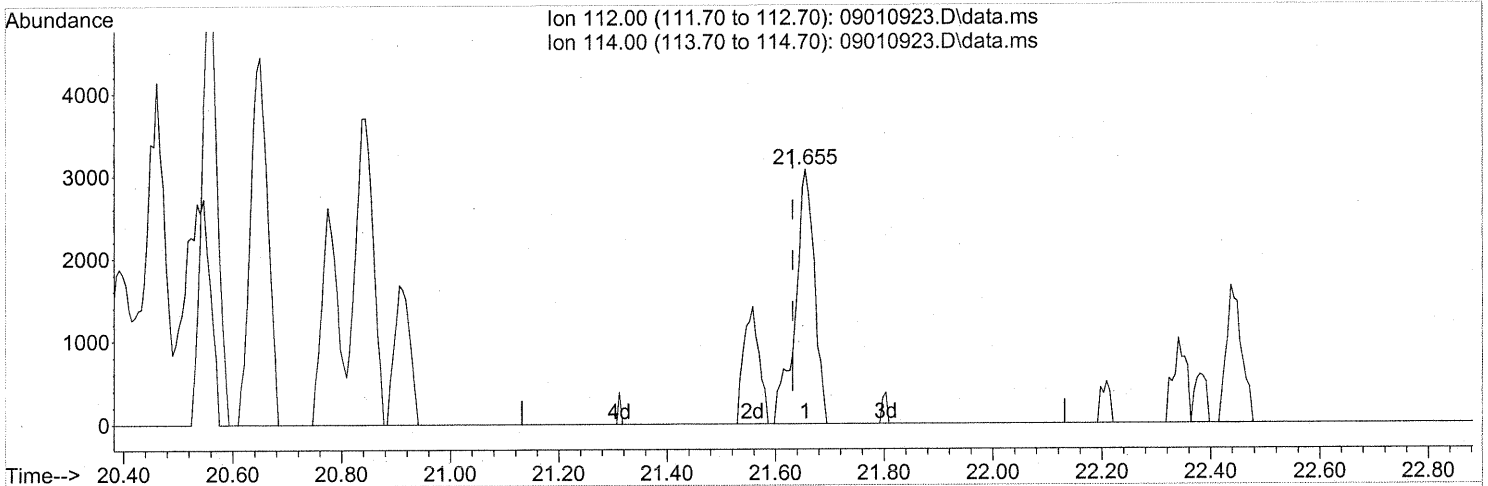
response 25262

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	78.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



(65) Chlorobenzene (T)
 21.655min (+0.023) 0.12ng
 response 7535

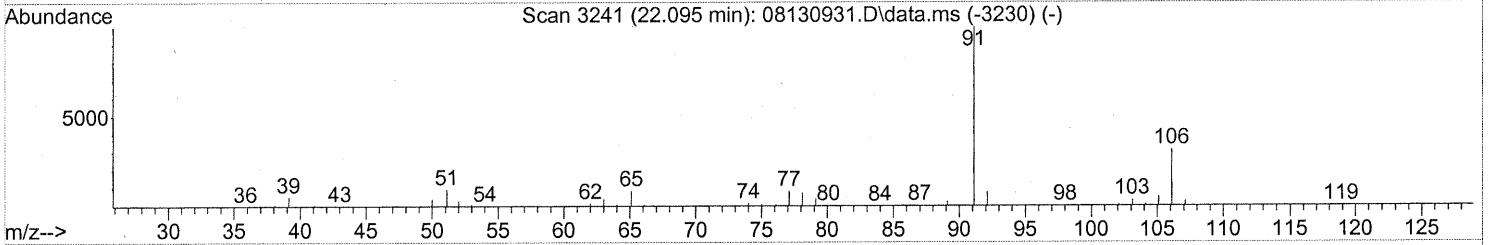
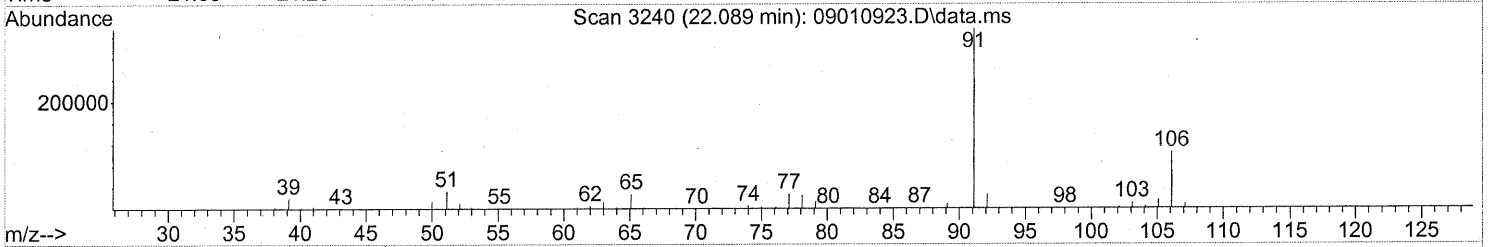
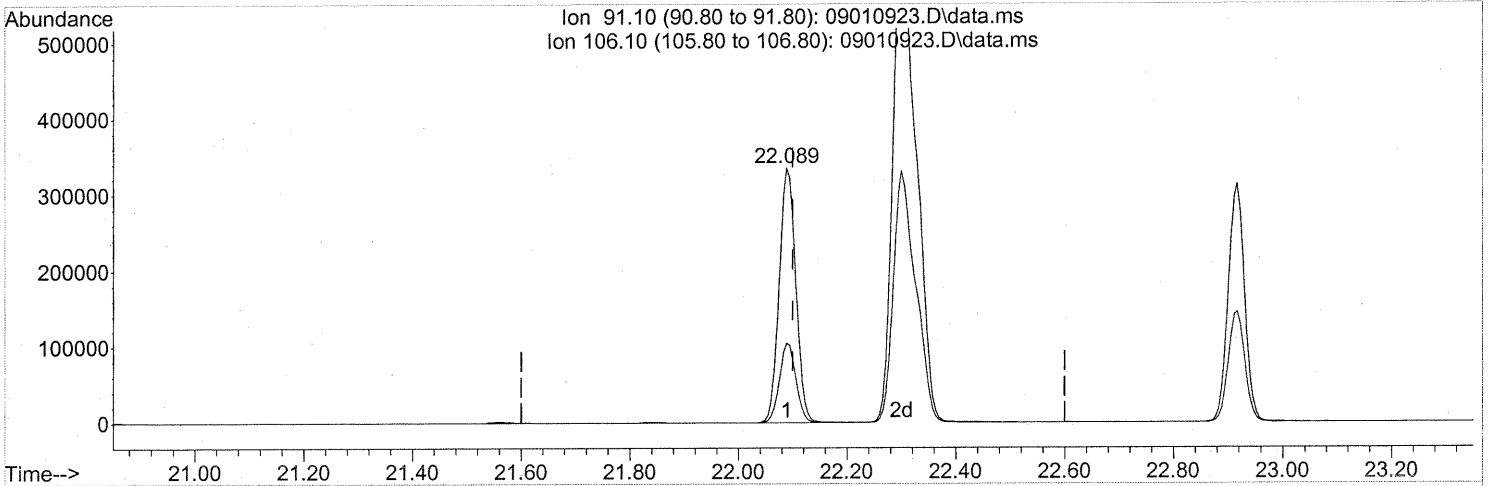
Ion	Exp%	Act%
112.00	100	100
114.00	32.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP Em 9/8/09
KR 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(66) Ethylbenzene (T)

22.089min (-0.011) 6.45ng

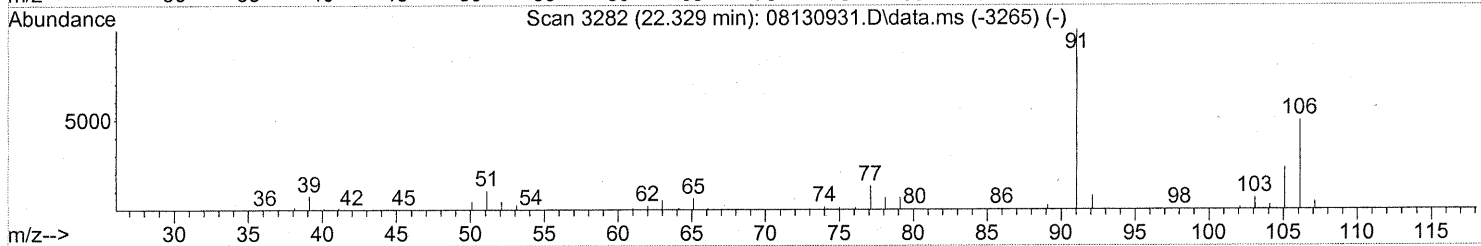
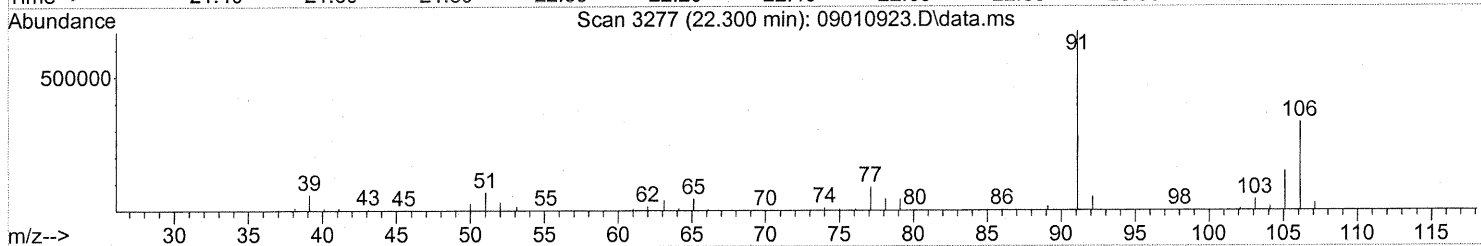
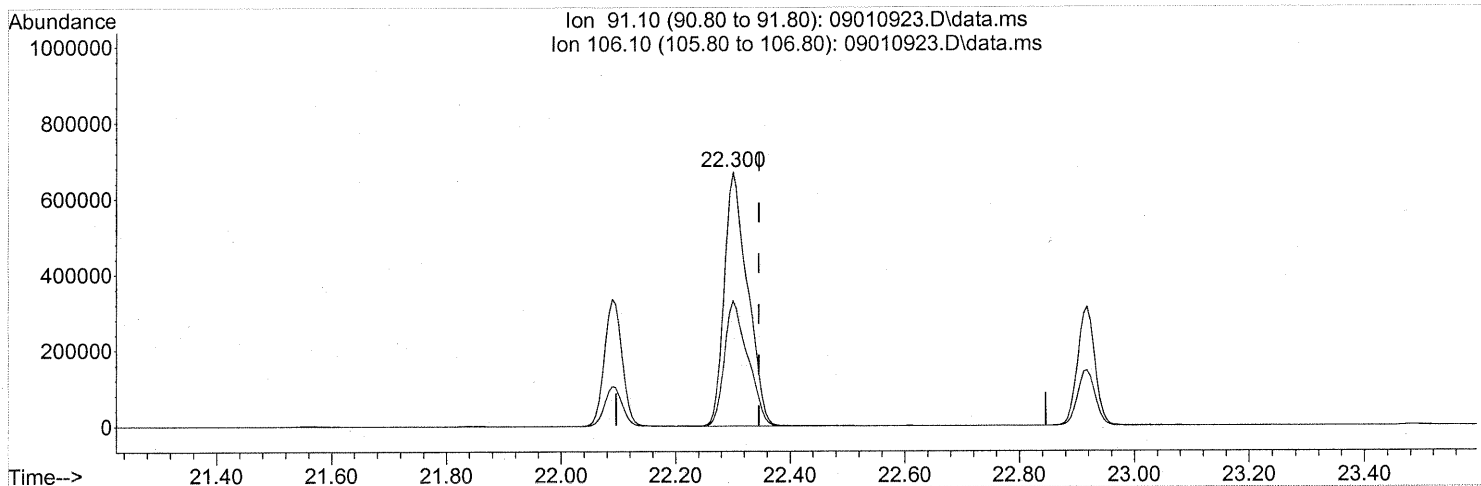
response 711157

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_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

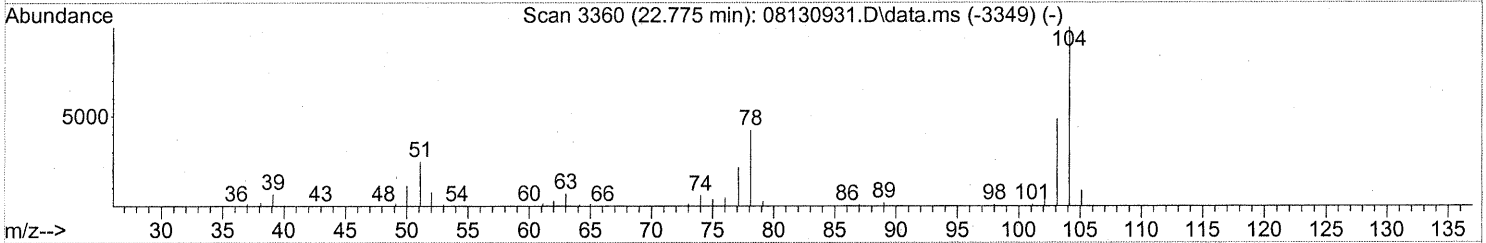
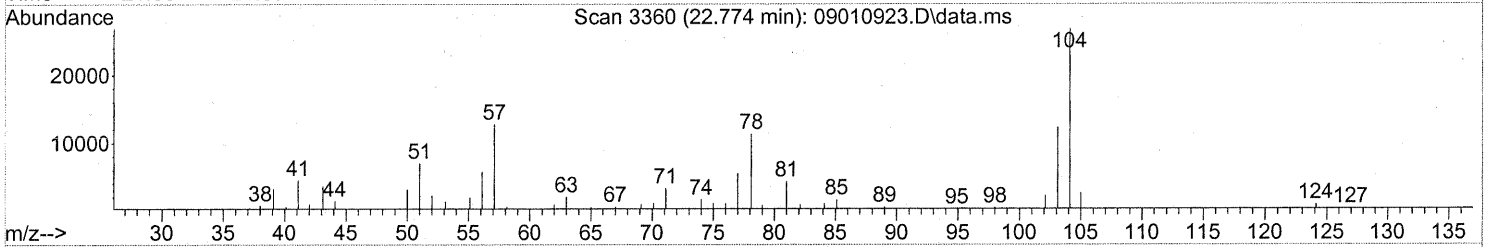
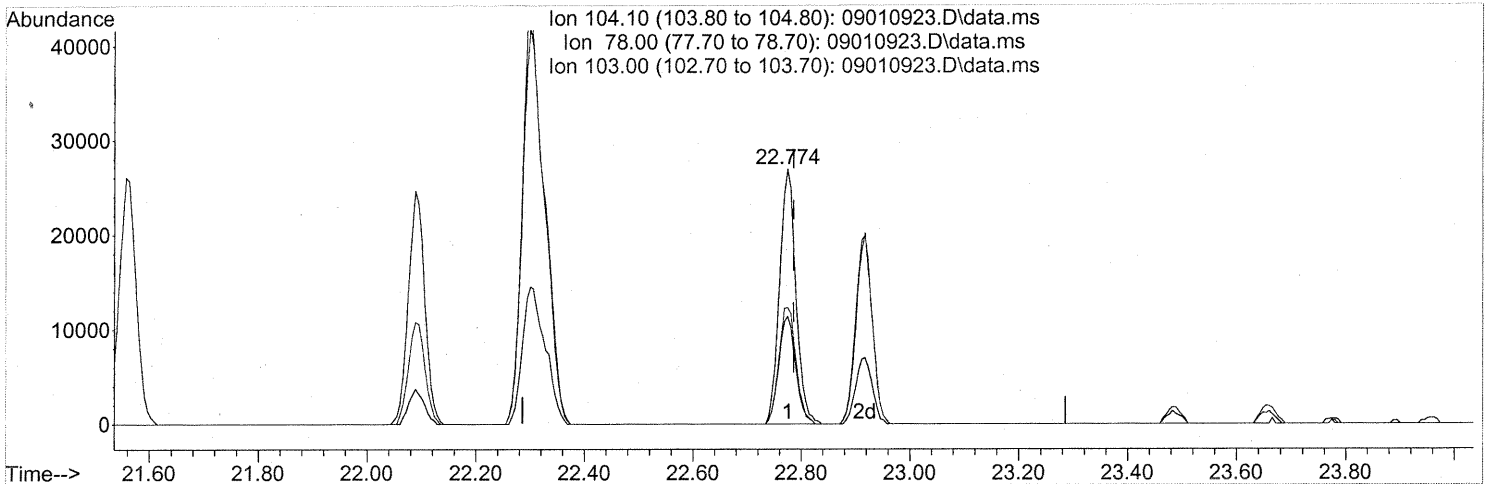
(67) m- & p-Xylenes (T)
 22.300min (-0.046) 21.64ng
 response 1891873

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(69) Styrene (T)

22.774min (-0.011) 0.87ng

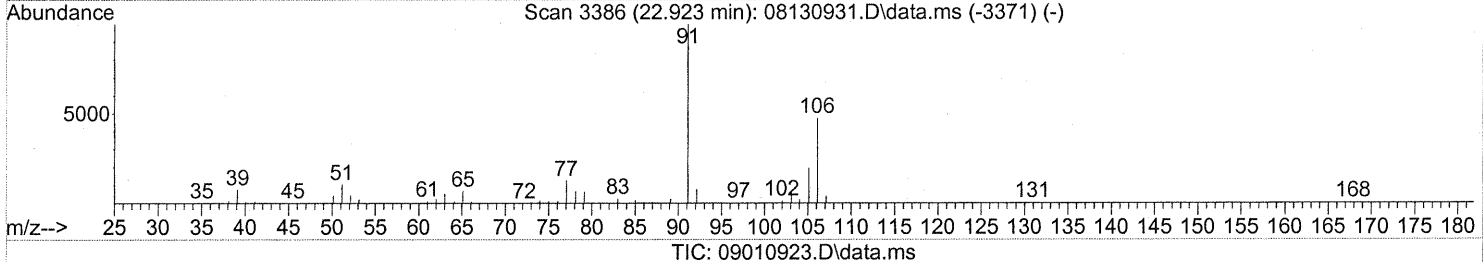
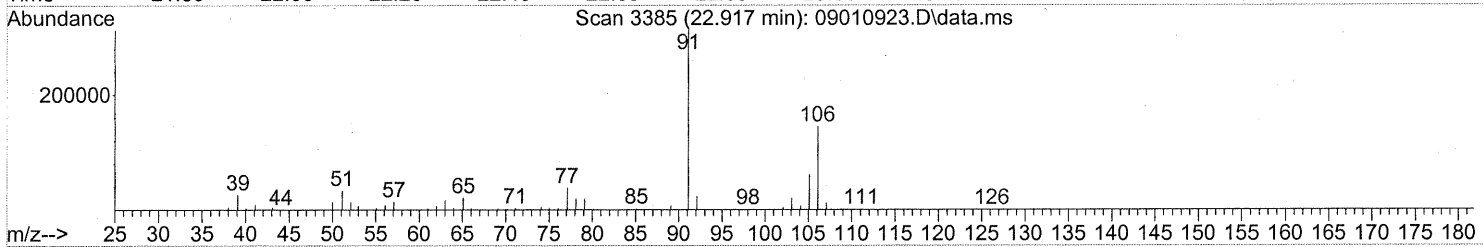
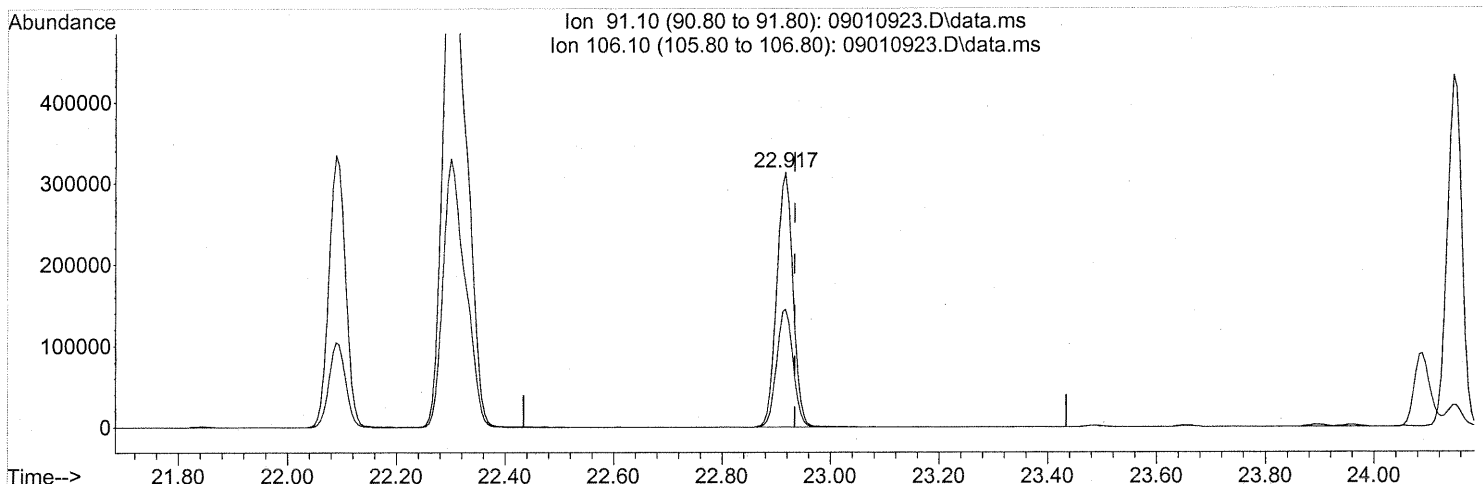
response 56531

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	43.46
103.00	48.70	48.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



(70) o-Xylene (T)

22.917min (-0.017) 7.42ng

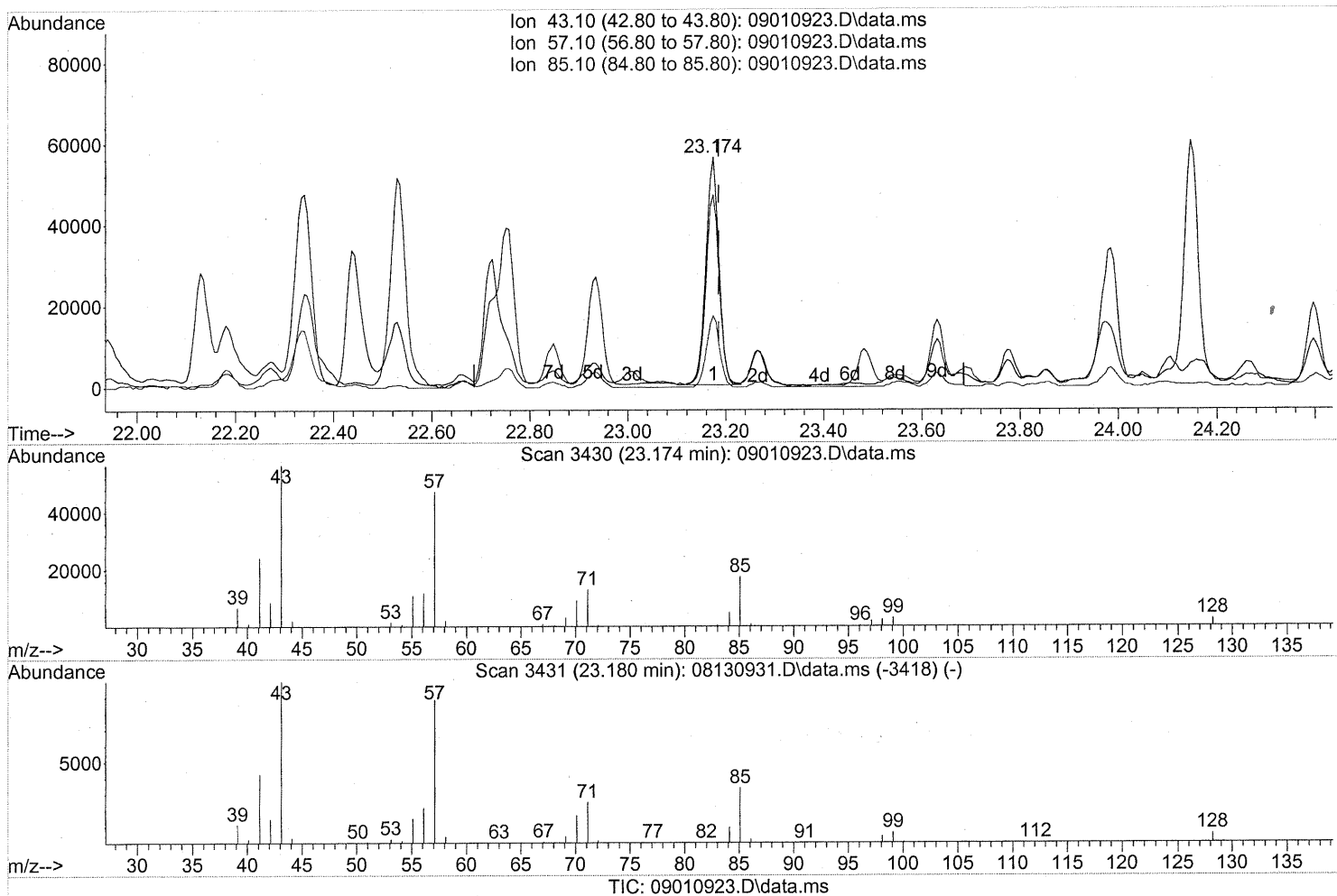
response 652874

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



(71) n-Nonane (T)

23.174min (-0.011) 1.97ng

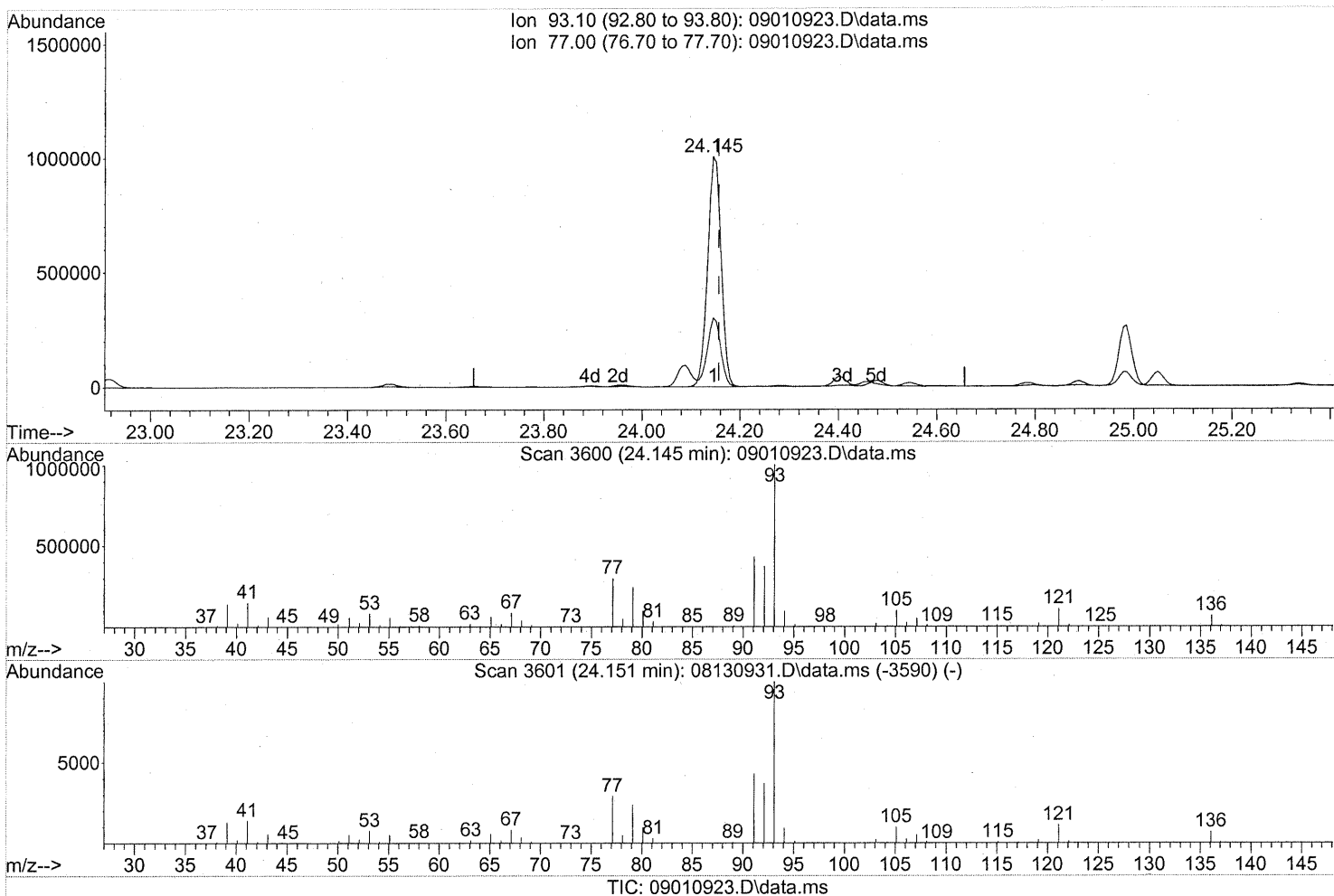
response 104578

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	85.18
85.10	38.80	31.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



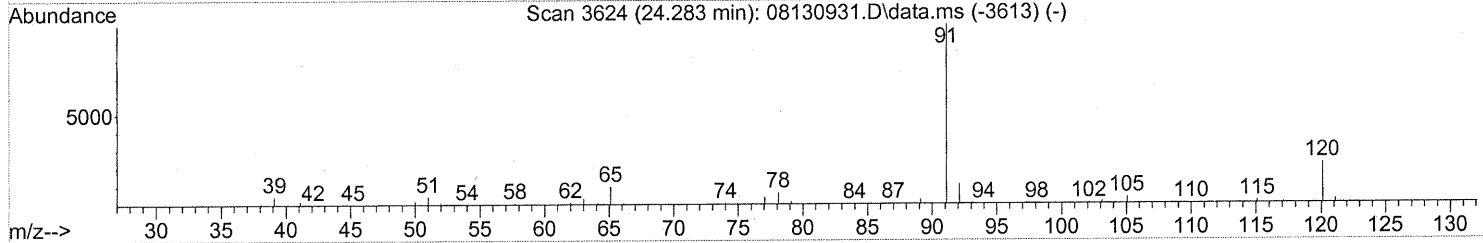
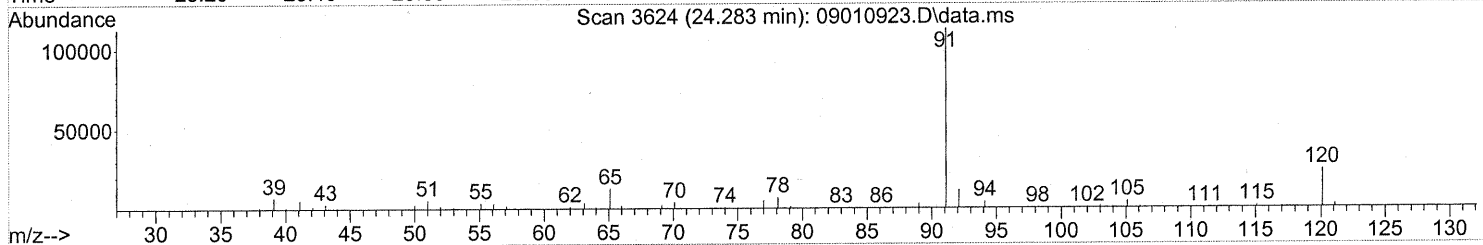
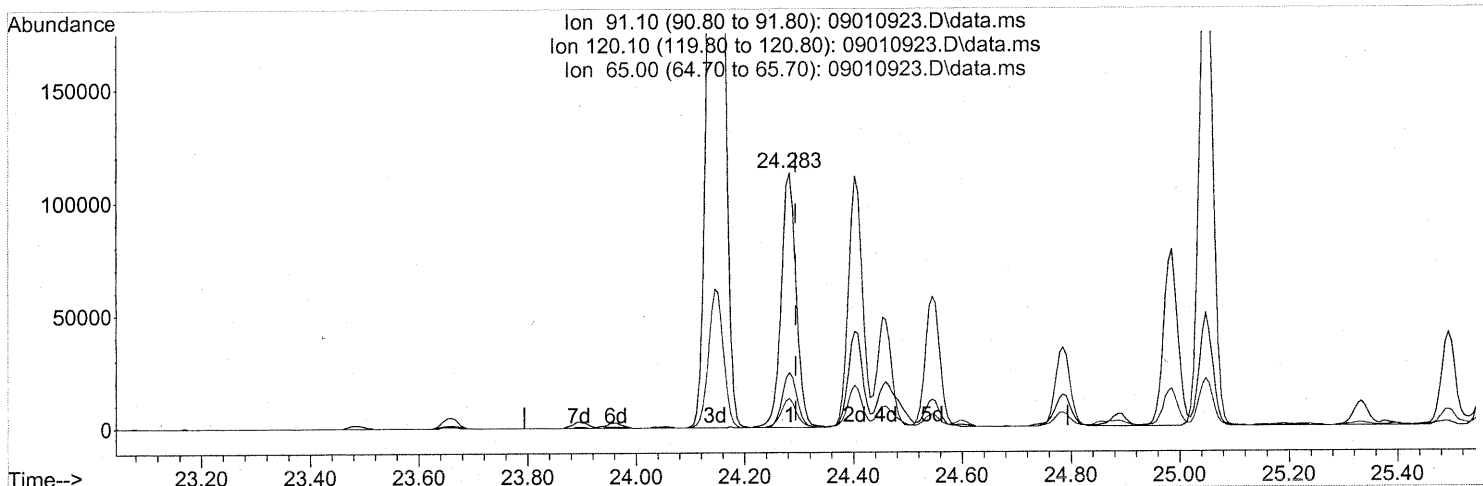
(75) alpha-Pinene (T)
 24.145min (-0.011) 33.99ng
 response 1911959

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	30.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(76) n-Propylbenzene (T)

24.283min (-0.011) 1.53ng

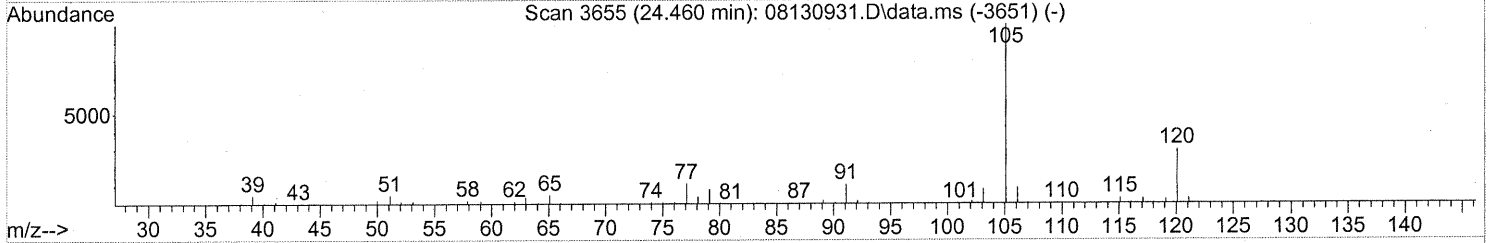
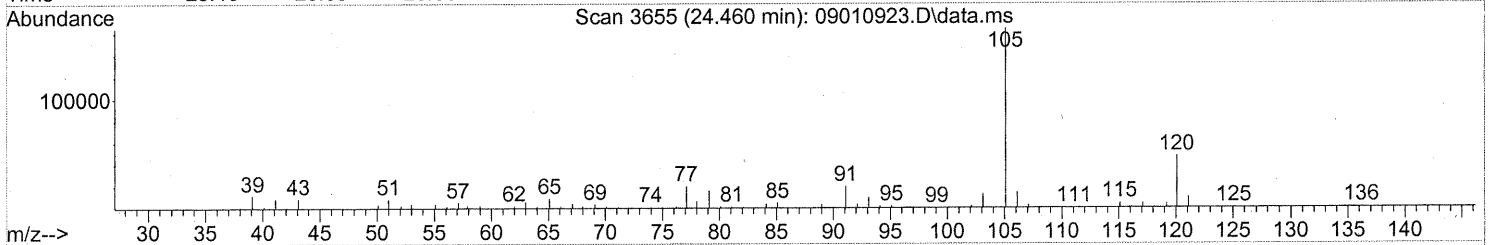
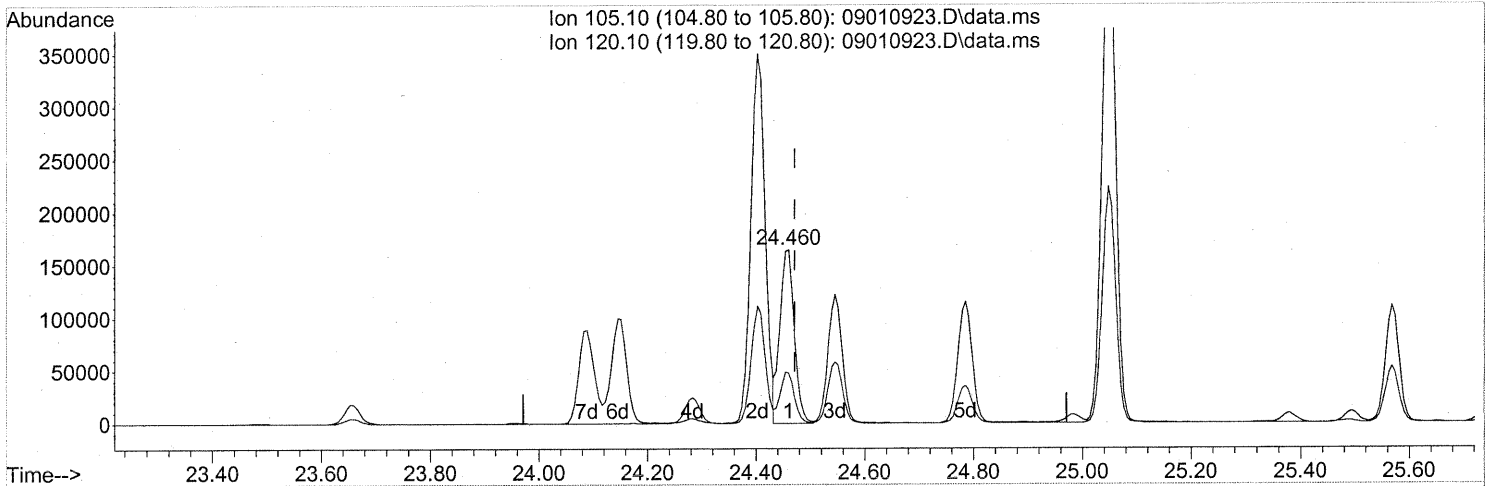
response 216166

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	21.22
65.00	10.20	11.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

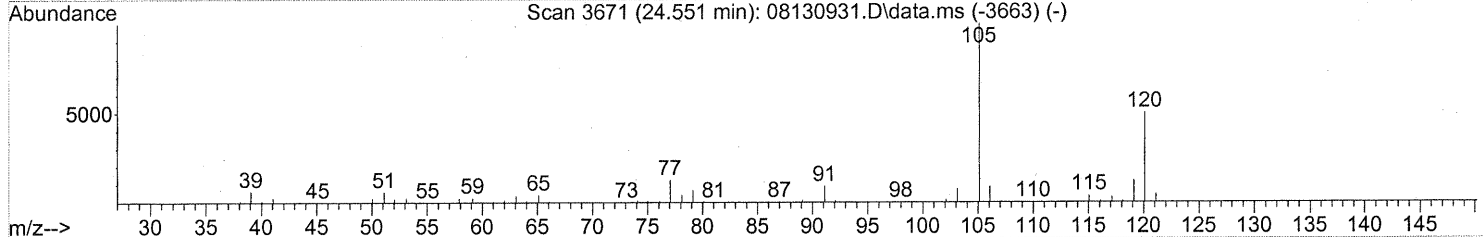
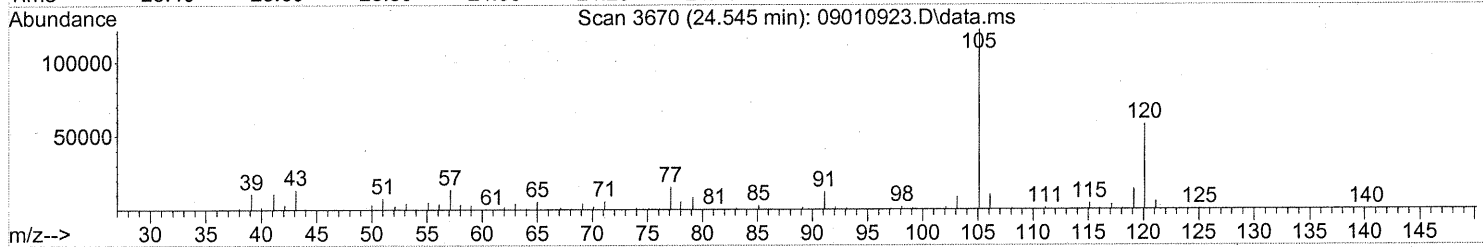
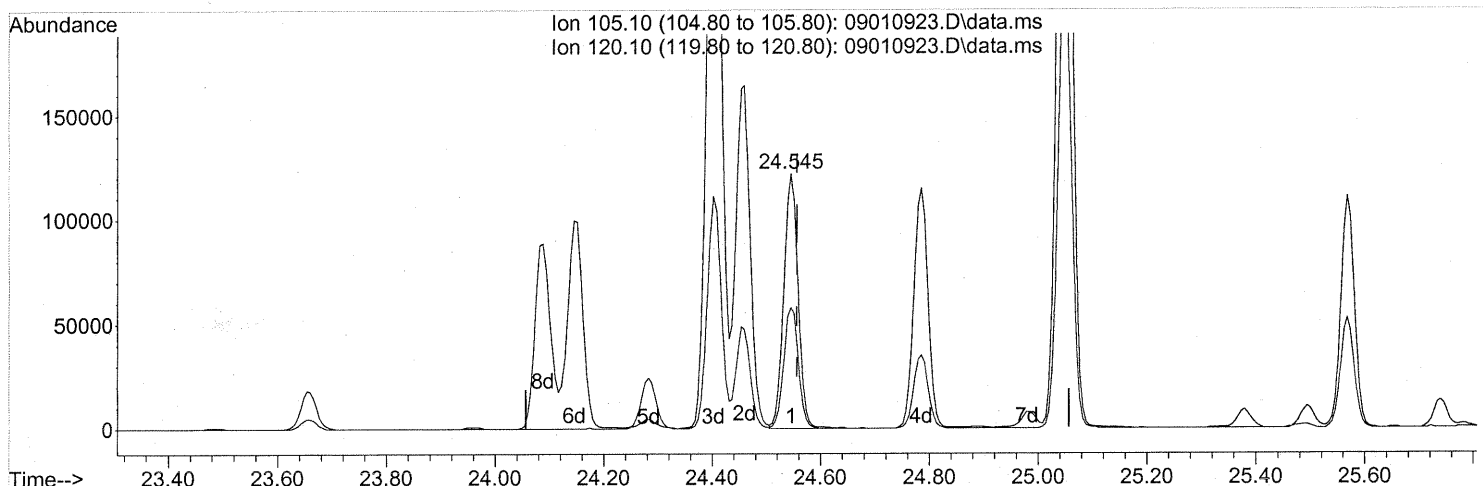
(78) 4-Ethyltoluene (T)
 24.460min (-0.011) 2.82ng
 response 302904

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	29.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

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

24.545min (-0.011) 2.50ng

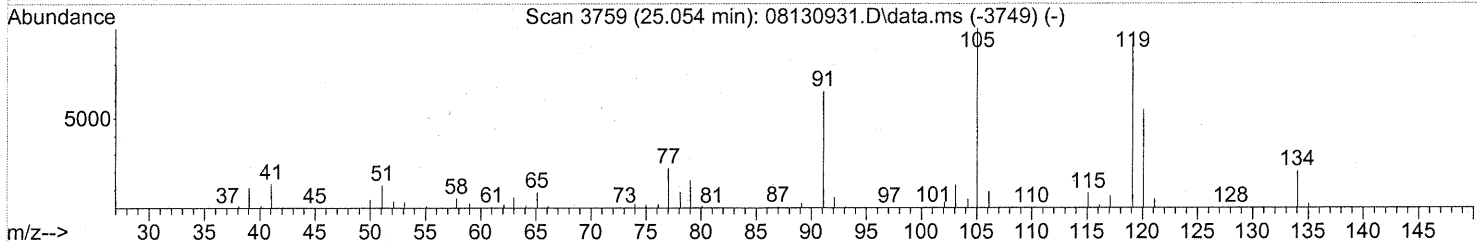
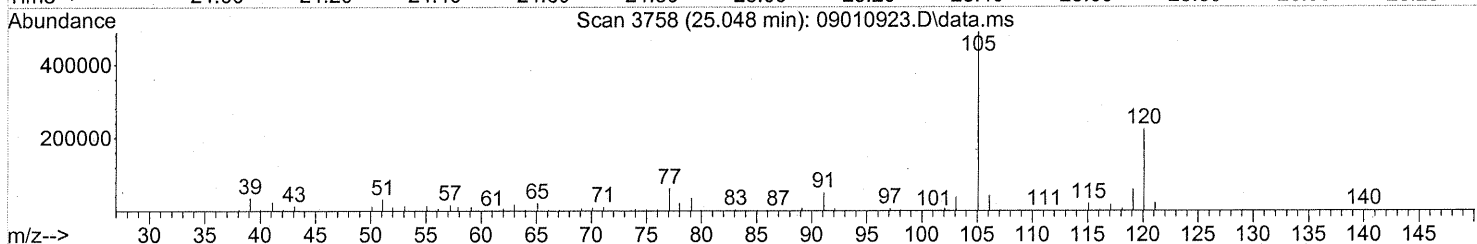
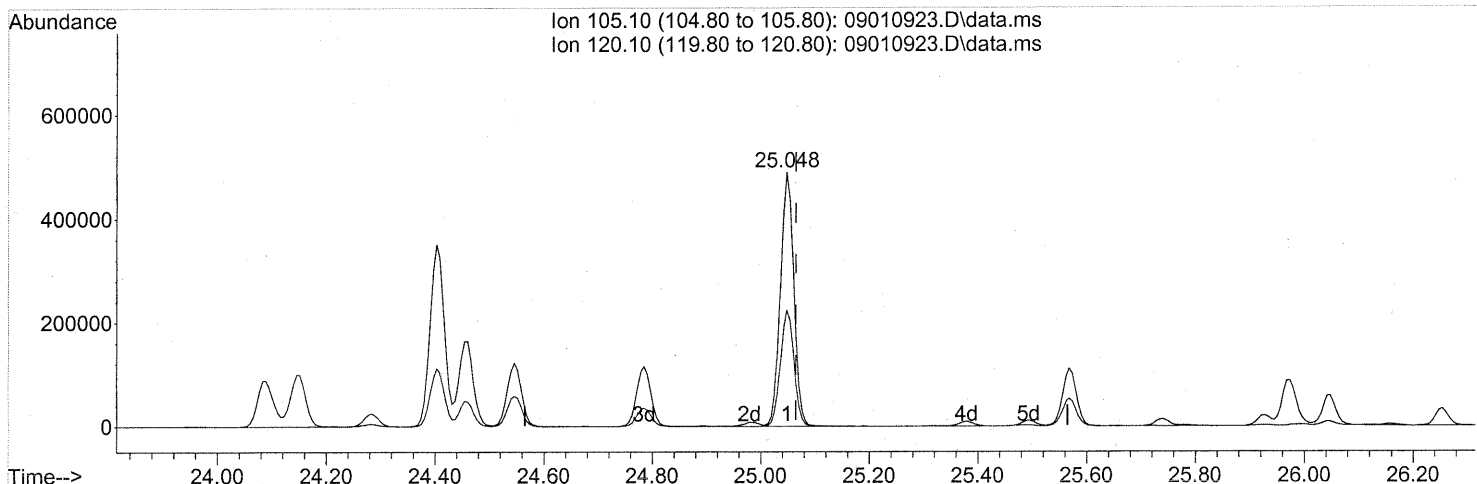
response 222374

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	48.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

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

25.048min (-0.017) 8.91ng

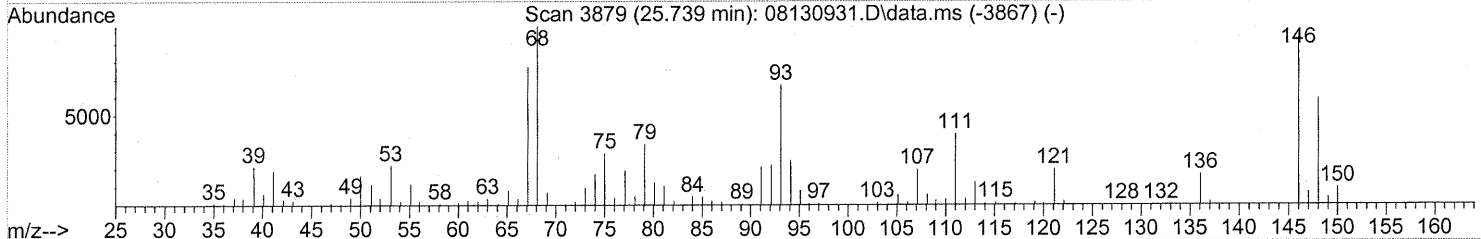
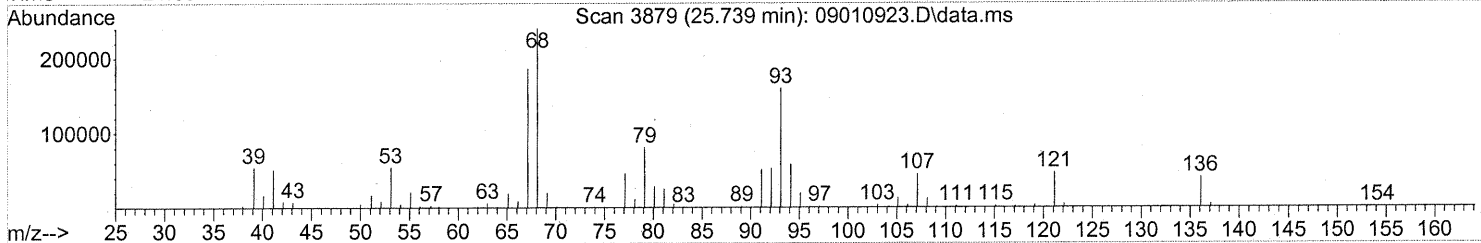
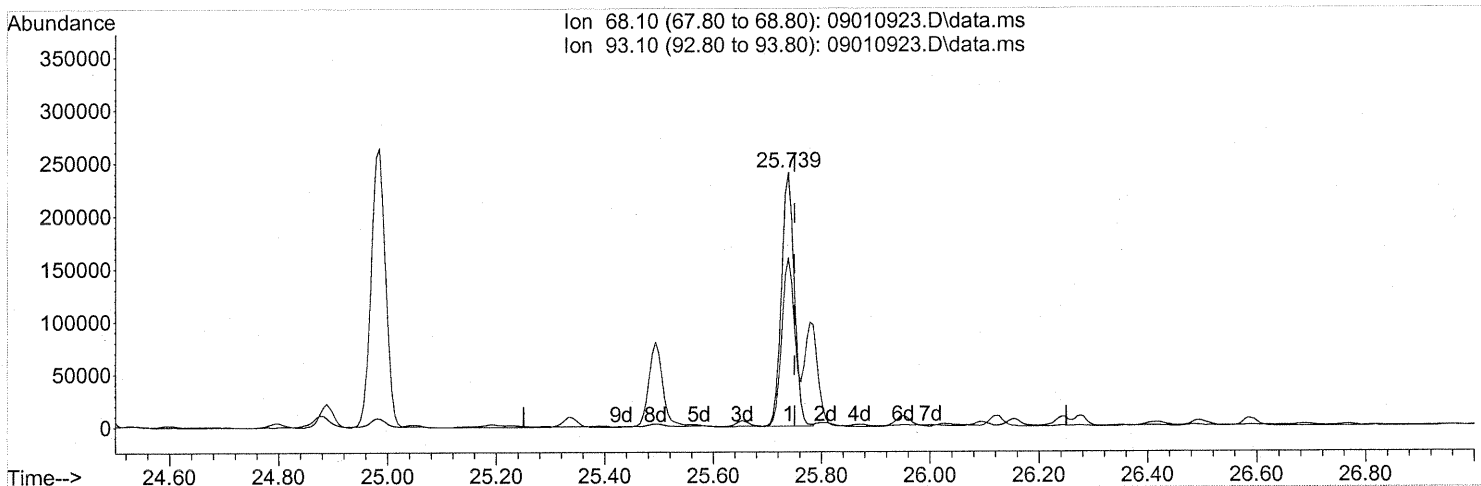
response 840323

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

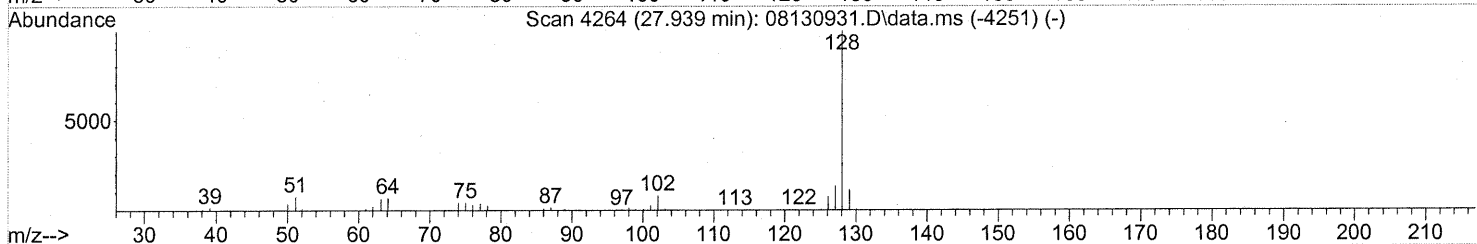
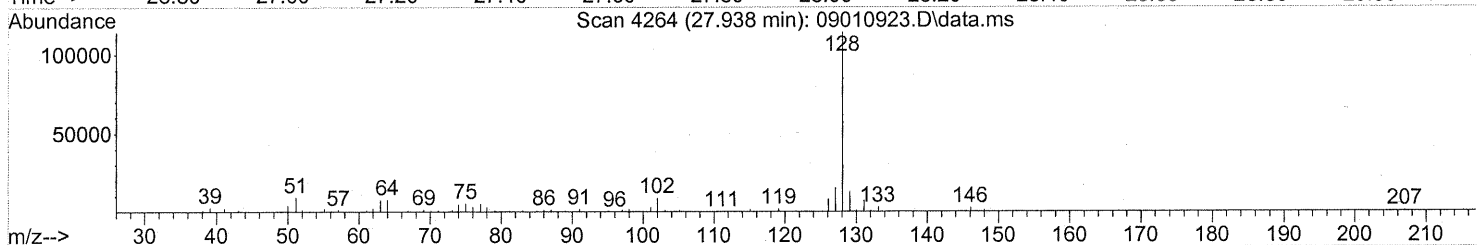
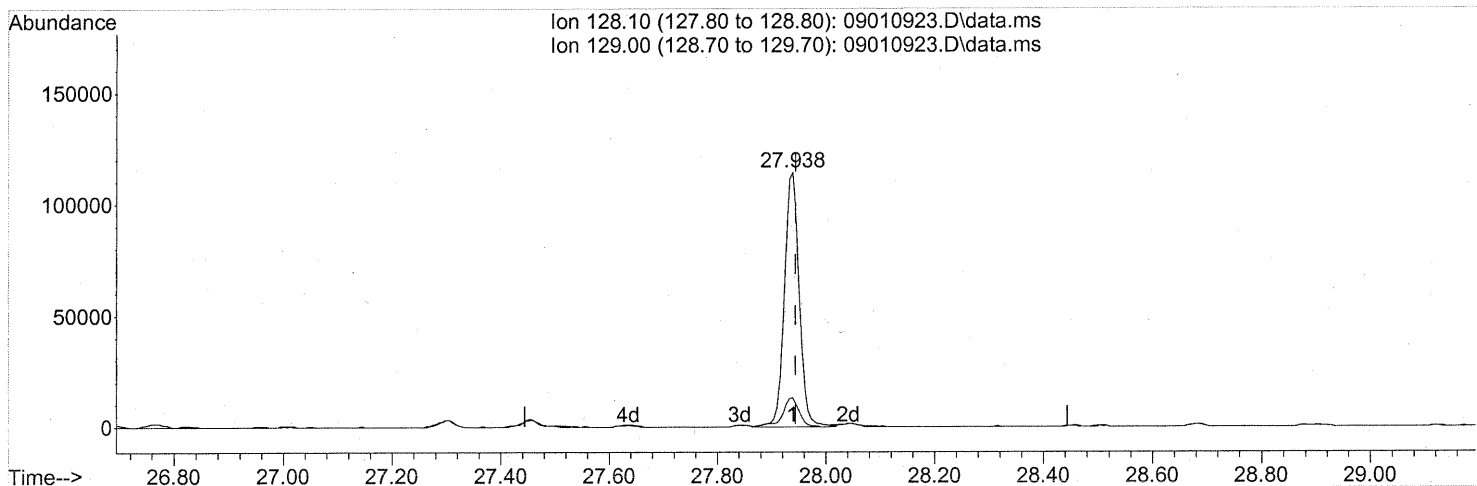
(91) d-Limonene (T)
 25.739min (-0.011) 10.26ng
 response 395678

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	69.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010923.D
 Acq On : 2 Sep 2009 00:43
 Operator : EM
 Sample : P0902975-003 (1000ml)
 Misc : Environmental H & E 103995
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 02 07:51:12 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



TIC: 09010923.D\data.ms

(95) Naphthalene (T)

27.938min (-0.006) 1.72ng

response 217309

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	12.70
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 103996
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: AC00623

CAS Project ID: P0902975
CAS Sample ID: P0902975-004

Date Collected: 8/25/09
Date Received: 8/26/09
Date Analyzed: 9/2/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.47

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	46	0.74	27	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.74	0.45	0.15	
74-87-3	Chloromethane	0.69	0.15	0.33	0.071	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.74	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	2.7	0.15	1.2	0.066	
74-83-9	Bromomethane	ND	0.15	ND	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	Ethanol	630	7.4	330	3.9	
75-05-8	Acetonitrile	490	0.74	290	0.44	E
107-02-8	Acrolein	5.4	0.74	2.4	0.32	
67-64-1	Acetone	85	7.4	36	3.1	
75-69-4	Trichlorofluoromethane	1.2	0.15	0.21	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	18	0.74	7.5	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	3.4	0.74	0.99	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.047	
76-13-1	Trichlorotrifluoroethane	0.50	0.15	0.065	0.019	
75-15-0	Carbon Disulfide	ND	0.74	ND	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	ND	7.4	ND	2.1	
78-93-3	2-Butanone (MEK)	45	0.74	15	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: _____

9/10/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 103996
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: AC00623

CAS Project ID: P0902975
 CAS Sample ID: P0902975-004

Date Collected: 8/25/09
 Date Received: 8/26/09
 Date Analyzed: 9/2/09
 Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	18	1.5	5.0	0.41	
110-54-3	n-Hexane	22	0.74	6.2	0.21	
67-66-3	Chloroform	0.45	0.15	0.093	0.030	
109-99-9	Tetrahydrofuran (THF)	58	0.74	20	0.25	
107-06-2	1,2-Dichloroethane	0.32	0.15	0.078	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	17	0.15	5.3	0.046	
56-23-5	Carbon Tetrachloride	0.46	0.15	0.074	0.023	
110-82-7	Cyclohexane	2.4	0.74	0.71	0.21	
78-87-5	1,2-Dichloropropane	0.20	0.15	0.043	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	0.86	0.15	0.16	0.027	
123-91-1	1,4-Dioxane	ND	0.74	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.36	
142-82-5	n-Heptane	11	0.74	2.8	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	ND	0.16	
108-10-1	4-Methyl-2-pentanone	1.3	0.74	0.31	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	58	0.74	15	0.20	
591-78-6	2-Hexanone	2.3	0.74	0.55	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	2.6	0.74	0.55	0.15	

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

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

Verified By: _____ Date: 9/10/09 **191**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: Environmental Health & Engineering, Inc.
Client Sample ID: 103996
Client Project ID: 16512

CAS Project ID: P0902975
 CAS Sample ID: P0902975-004

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: AC00623

Date Collected: 8/25/09
Date Received: 8/26/09
Date Analyzed: 9/2/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	6.1	0.74	1.3	0.16	
127-18-4	Tetrachloroethene	2.2	0.15	0.32	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	12	0.74	2.8	0.17	
179601-23-1	m,p-Xylenes	40	0.74	9.3	0.17	
75-25-2	Bromoform	ND	0.74	ND	0.071	
100-42-5	Styrene	1.6	0.74	0.38	0.17	
95-47-6	o-Xylene	14	0.74	3.2	0.17	
111-84-2	n-Nonane	3.5	0.74	0.67	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.74	ND	0.15	
80-56-8	alpha-Pinene	57	0.74	10	0.13	
103-65-1	n-Propylbenzene	2.8	0.74	0.58	0.15	
622-96-8	4-Ethyltoluene	5.3	0.74	1.1	0.15	
108-67-8	1,3,5-Trimethylbenzene	4.7	0.74	0.95	0.15	
95-63-6	1,2,4-Trimethylbenzene	17	0.74	3.4	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.024	
5989-27-5	d-Limonene	16	0.74	2.8	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.74	ND	0.076	
120-82-1	1,2,4-Trichlorobenzene	ND	0.74	ND	0.099	
91-20-3	Naphthalene	2.9	0.74	0.56	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: _____

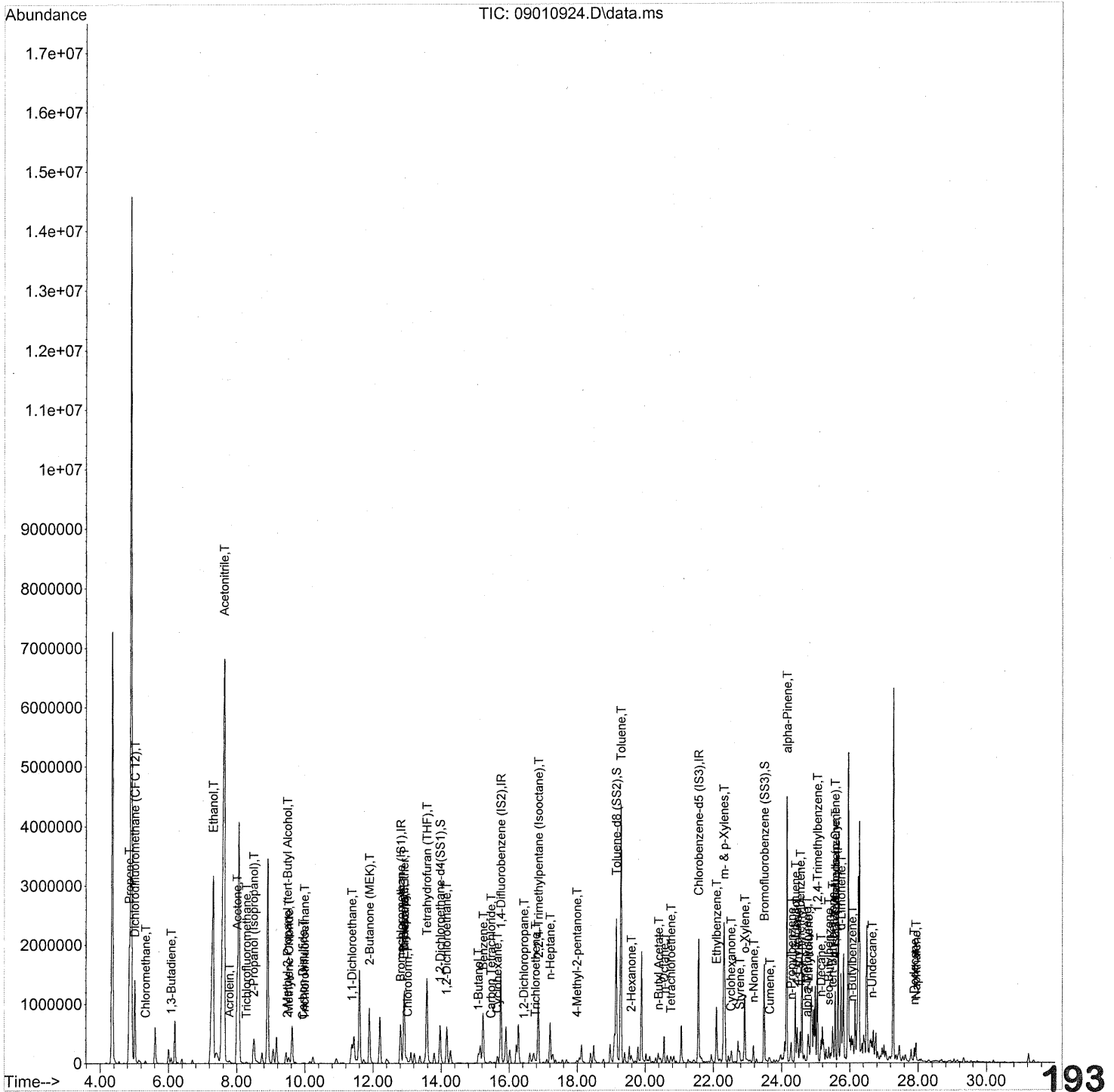
Date: _____

9/10/09

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Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:05:52 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



Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:05:52 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	349874	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1784087	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	870516	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	632683	25.574	ng	-0.02
Spiked Amount	25.000			Recovery	=	102.28%
57) Toluene-d8 (SS2)	19.15	98	2062370	24.921	ng	-0.01
Spiked Amount	25.000			Recovery	=	99.68%
73) Bromofluorobenzene (SS3)	23.49	174	589368	25.147	ng	0.00
Spiked Amount	25.000			Recovery	=	100.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	959473	31.262	ng	# 50
3) Dichlorodifluoromethan...	5.01	85	66526	1.519	ng	99
4) Chloromethane	5.33	50	19038	0.466	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1105	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.08	54	53412	1.867	ng	94
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.31	45	8209040m	426.401	ng	
11) Acetonitrile	7.63	41	15607733	332.196	ng	F 100
12) Acrolein	7.79	56	46349	3.692	ng	96
13) Acetone	8.01	58	1127587	57.557	ng	# 1
14) Trichlorofluoromethane	8.29	101	30223	0.807	ng	99
15) 2-Propanol (Isopropanol)	8.50	45	673581	12.555	ng	94
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	19165	0.352	ng	# 66
19) Methylene Chloride	9.53	84	56870	2.327	ng	88
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.98	151	5689	0.339	ng	91
22) Carbon Disulfide	9.94	76	22971	0.266	ng	98
23) trans-1,2-Dichloroethene	10.92	61	715	N.D.		
24) 1,1-Dichloroethane	11.38	63	2199	0.053	ng	# 1
25) Methyl tert-Butyl Ether	11.36	73	623	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.89	72	419111	30.687	ng	# 80
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.92	87	18530	0.956	ng	# 1
30) Ethyl Acetate	12.91	61	107909	12.184	ng	100
31) n-Hexane	12.93	57	639301	14.808	ng	94

em 9/8/09

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:05:52 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

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	13.02	83	11172	0.309 ng	81
34) Tetrahydrofuran (THF)	13.58	72	561477	39.542 ng #	79
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	14.15	62	5971	0.216 ng	83
38) 1,1,1-Trichloroethane	14.54	97	111	N.D.	
39) Isopropyl Acetate	15.08	61	656	N.D.	
40) 1-Butanol	15.09	56	166515	7.202 ng	98
41) Benzene	15.23	78	1108464	11.553 ng	99
42) Carbon Tetrachloride	15.46	117	8452	0.315 ng	97
43) Cyclohexane	15.66	84	61717	1.661 ng	88
44) tert-Amyl Methyl Ether	16.11	73	1715	N.D.	
45) 1,2-Dichloropropane	16.43	63	3184	0.135 ng	100
46) Bromodichloromethane	0.00	83	0	N.D. d	
47) Trichloroethene	16.77	130	14202	0.583 ng	97
48) 1,4-Dioxane	16.76	88	815	N.D.	
49) 2,2,4-Trimethylpentane...	16.86	57	1248782	11.309 ng	100
50) Methyl Methacrylate	0.00	100	0	N.D. d	
51) n-Heptane	17.20	71	196406	7.690 ng	93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	17.99	58	17986	0.868 ng	88
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	3943602	39.310 ng	100
59) 2-Hexanone	19.59	43	80232	1.539 ng #	45
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	20.39	43	100875	1.773 ng	78
63) n-Octane	20.56	57	92966	4.157 ng	89
64) Tetrachloroethene	20.75	166	37300	1.498 ng	99
65) Chlorobenzene	0.00	112	0	N.D. d	
66) Ethylbenzene	22.09	91	882239	8.145 ng	99
67) m- & p-Xylenes	22.30	91	2364952	27.542 ng	99
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	22.77	104	70255	1.107 ng	99
70) o-Xylene	22.92	91	813957	9.423 ng	99
71) n-Nonane	23.17	43	124312	2.390 ng	90
72) 1,1,2,2-Tetrachloroethane	22.92	83	1429	N.D.	
74) Cumene	23.65	105	46887	0.419 ng	97
75) alpha-Pinene	24.15	93	2129419	38.535 ng	99
76) n-Propylbenzene	24.28	91	266157	1.923 ng	95
77) 3-Ethyltoluene	24.40	105	808302	7.703 ng	98
78) 4-Ethyltoluene	24.45	105	379908	3.602 ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	276345	3.168 ng	100

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
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Quant Time: Sep 04 16:05:52 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

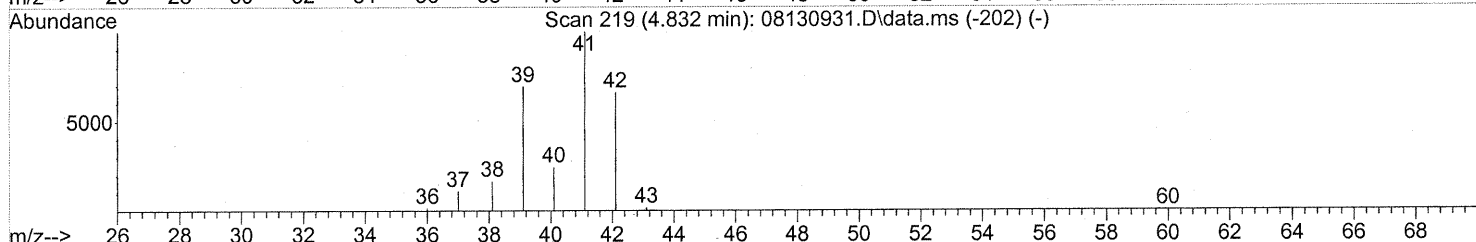
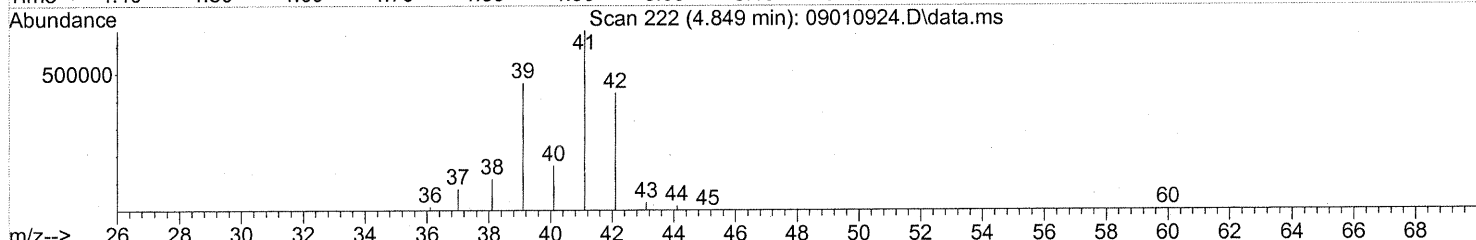
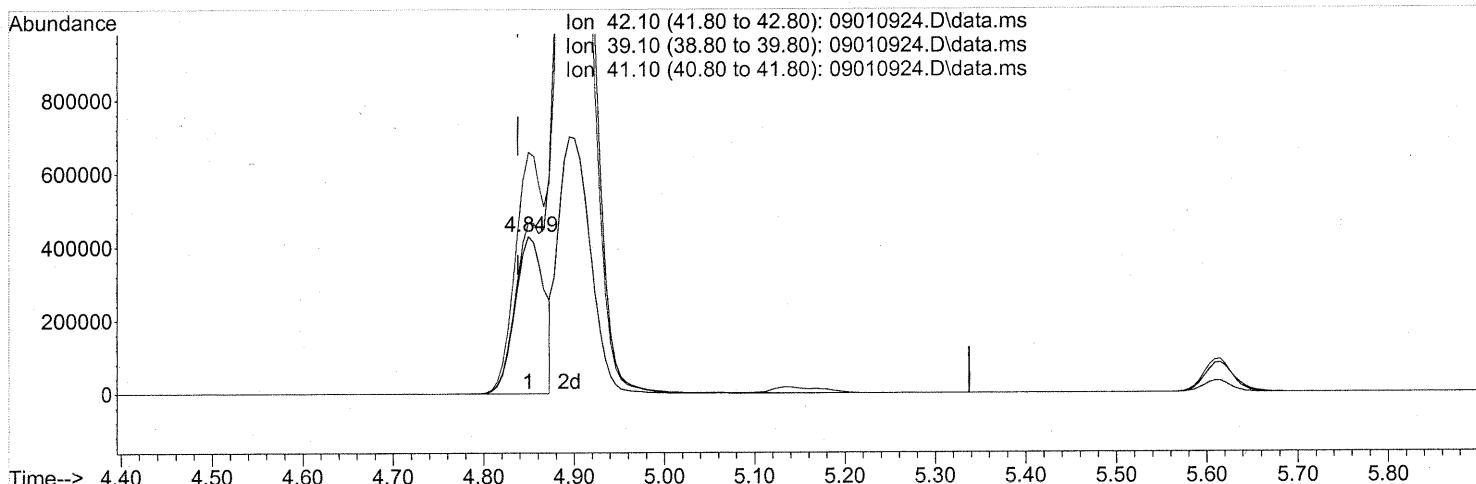
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.74	118	2389	0.050	ng	# 60
81) 2-Ethyltoluene	24.79	105	271028	2.501	ng	98
82) 1,2,4-Trimethylbenzene	25.05	105	1056241	11.406	ng	90
83) n-Decane	25.15	57	132393	2.456	ng	98
84) Benzyl Chloride	25.23	91	787	N.D.		
85) 1,3-Dichlorobenzene	25.32	146	1606	N.D.		
86) 1,4-Dichlorobenzene	25.32	146	1606	N.D.		
87) sec-Butylbenzene	25.38	105	20542	0.168	ng	# 80
88) 4-Isopropyltoluene (p-...	25.56	119	156965	1.342	ng	91
89) 1,2,3-Trimethylbenzene	25.57	105	239464	2.558	ng	94
90) 1,2-Dichlorobenzene	25.32	146	1606	N.D.		
91) d-Limonene	25.74	68	400170	10.562	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.66	157	142	N.D.		
93) n-Undecane	26.65	57	47606	0.855	ng	# 45
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	246606	1.985	ng	94
96) n-Dodecane	27.89	57	68056	1.092	ng	97
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	50217	1.589	ng	# 82
99) tert-Butylbenzene	25.49	119	33709	0.367	ng	95
100) n-Butylbenzene	26.06	91	93511	0.963	ng	# 39

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(2) Propene (T)

4.849min (+0.011) 31.26ng

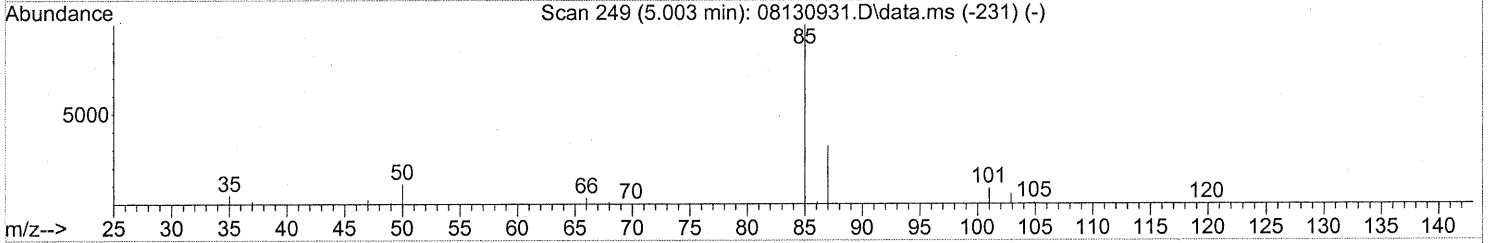
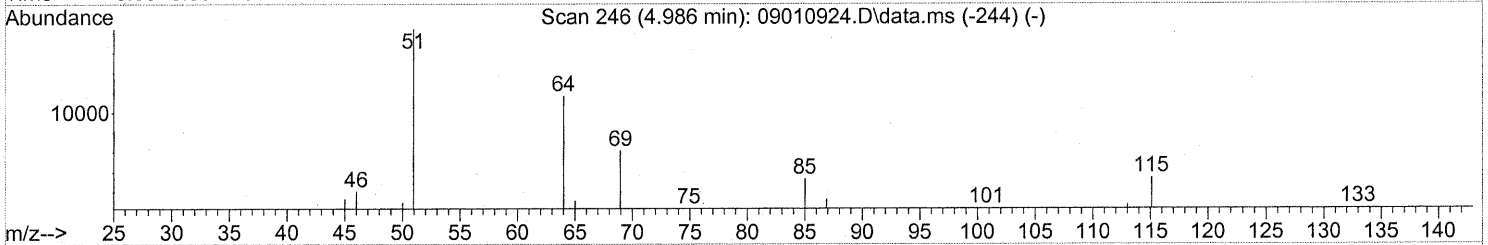
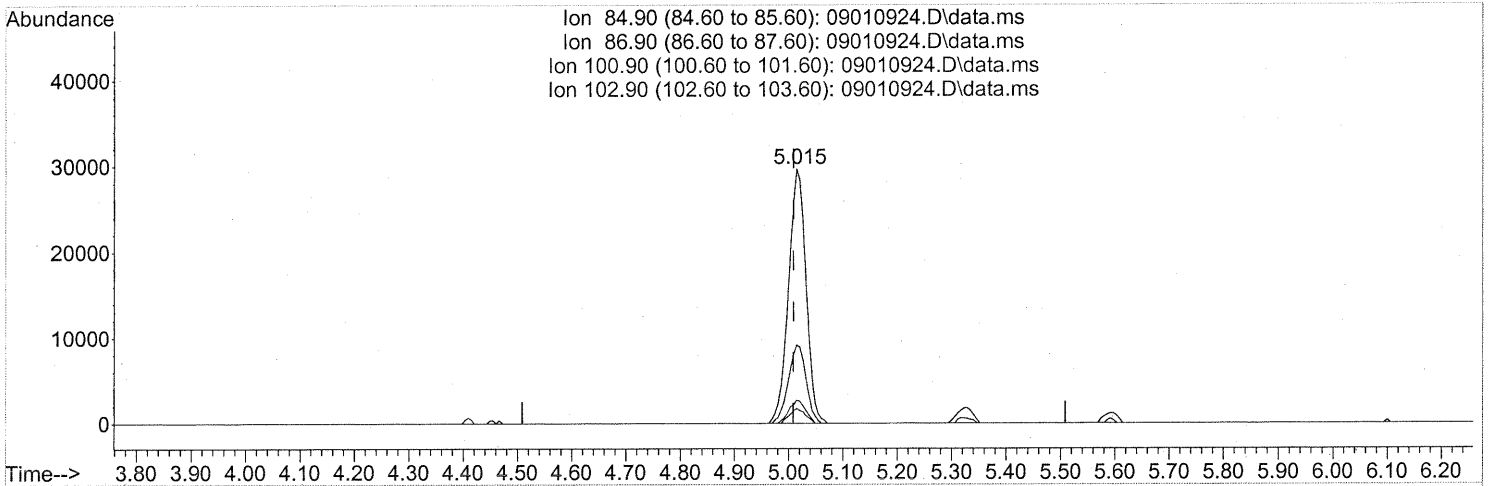
response 959473

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	0.00#
41.10	152.70	143.27
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 09010924.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.015min (+0.006) 1.52ng

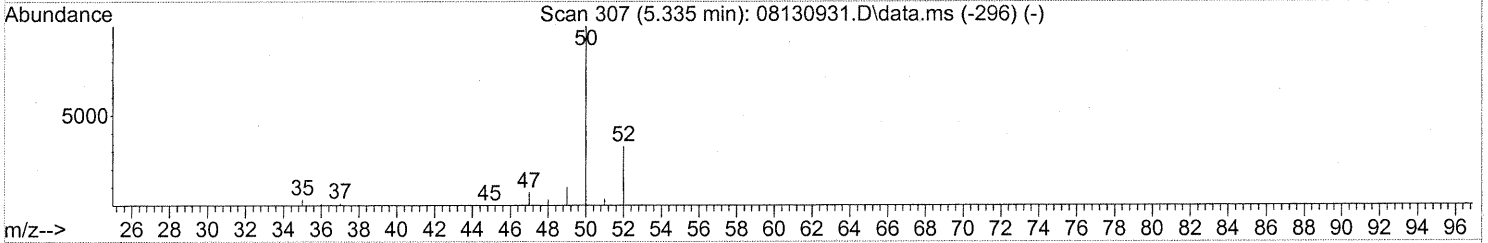
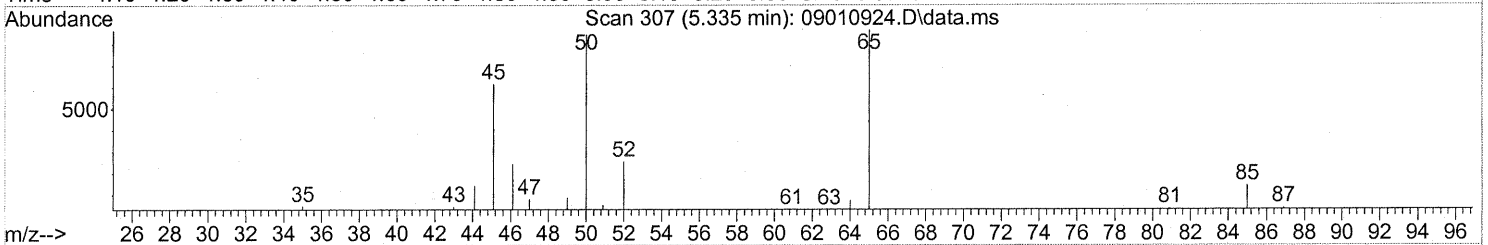
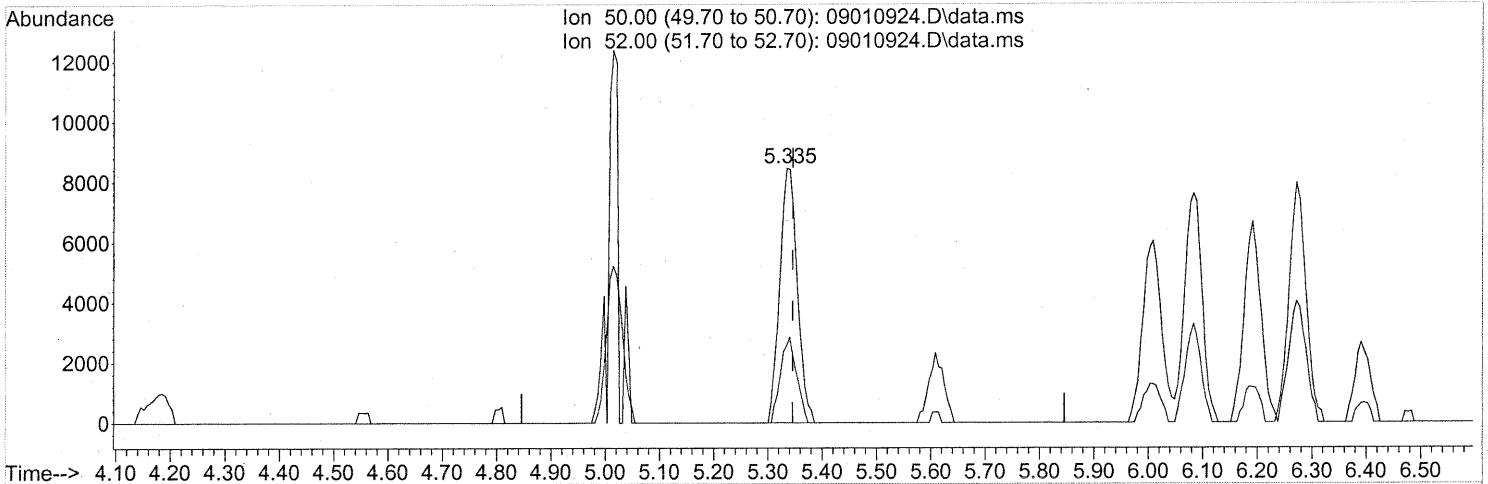
response 66526

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.22
100.90	9.10	8.38
102.90	5.50	5.12

Quantitation Report (Qedit)

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TIC: 09010924.D\data.ms

(4) Chloromethane (T)
 5.335min (-0.011) 0.47ng
 response 19038

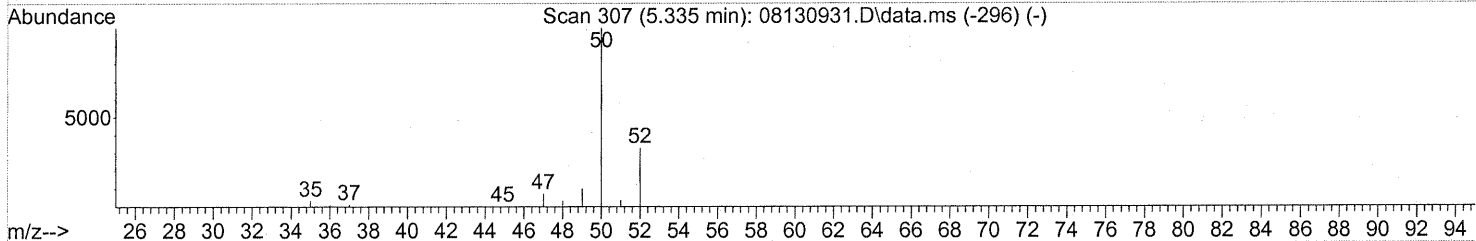
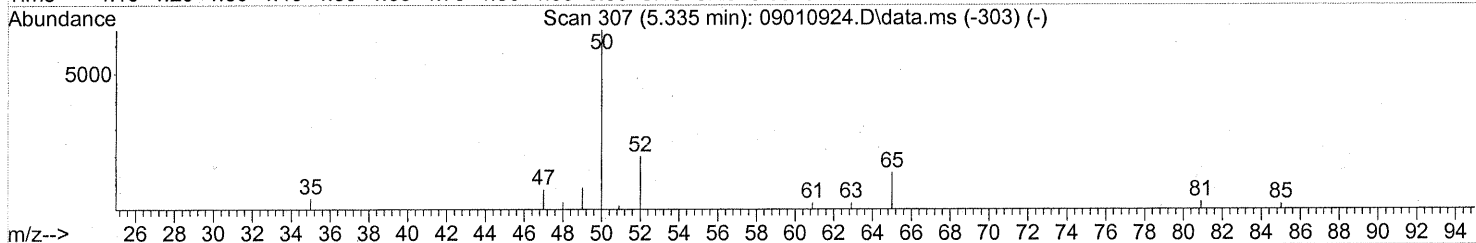
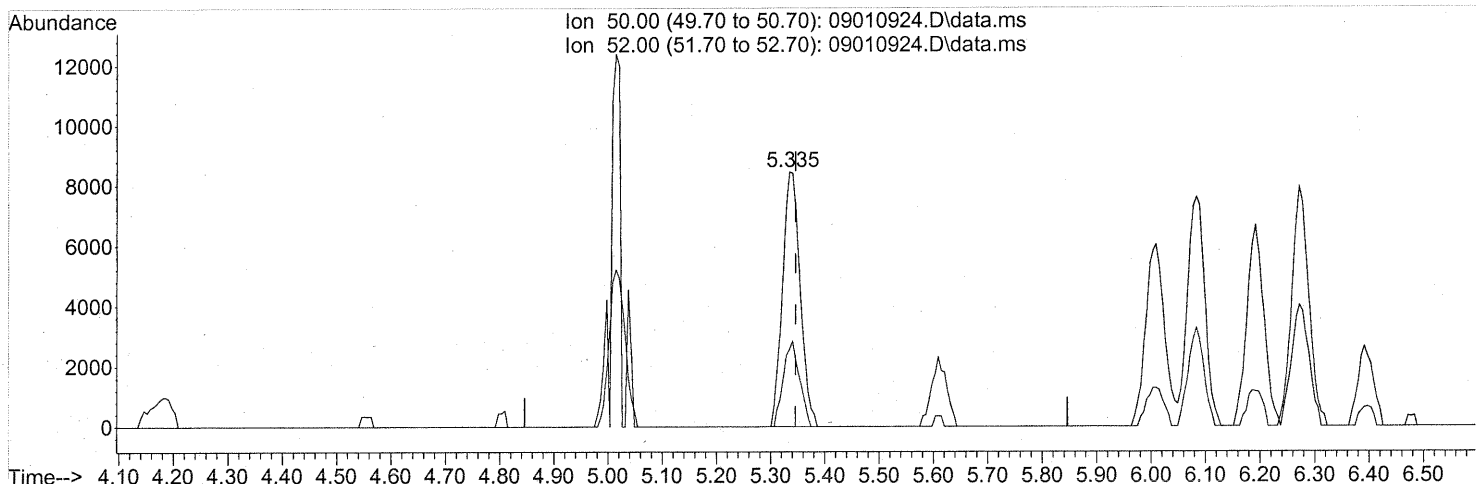
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.79
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

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 Response via : Initial Calibration



(4) Chloromethane (T)
 5.335min (-0.011) 0.47ng
 response 19038

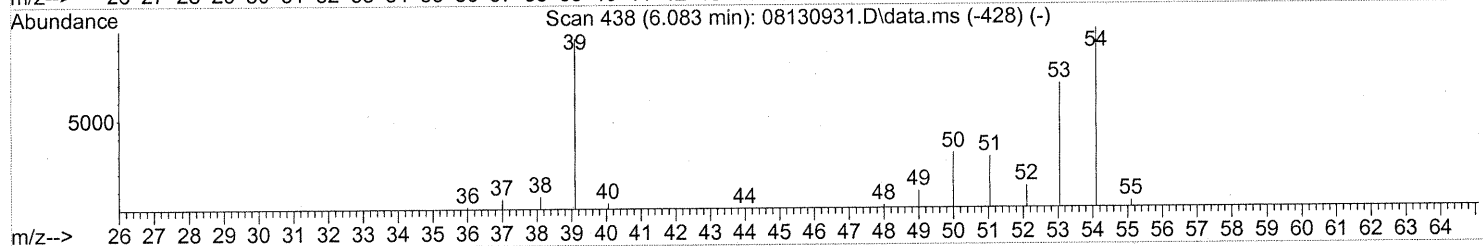
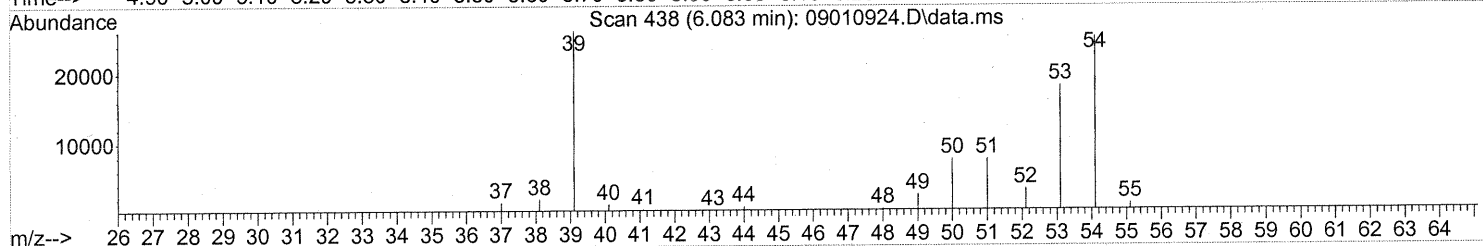
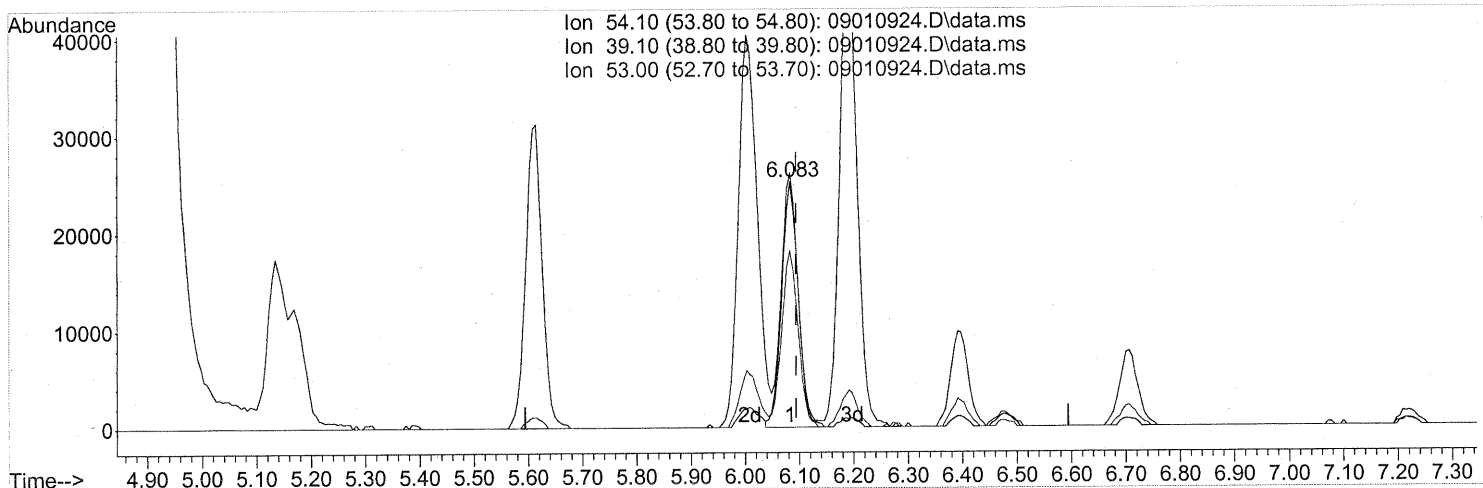
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.79
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
em 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
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 Sample : P0902975-004 (1000ml)
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 ALS Vial : 12 Sample Multiplier: 1

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 09010924.D\data.ms

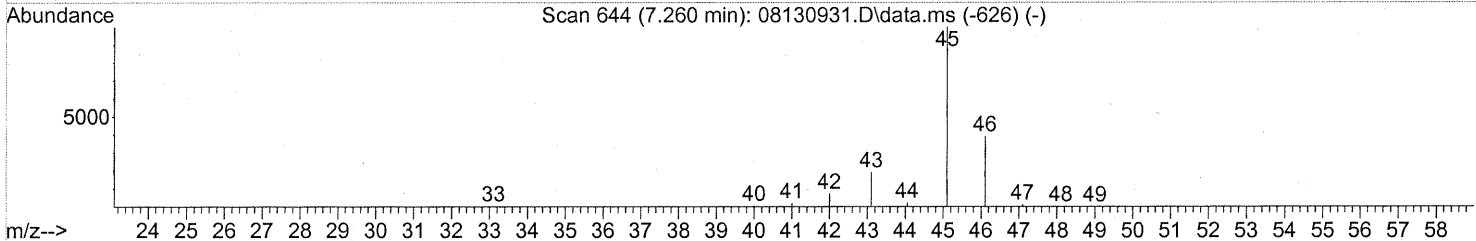
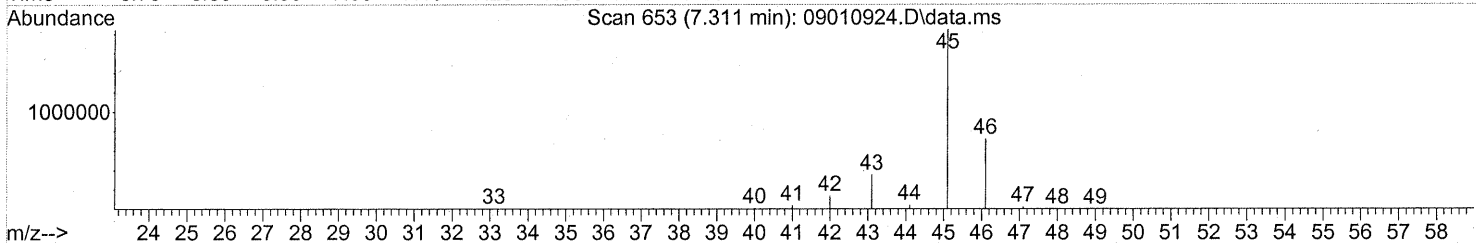
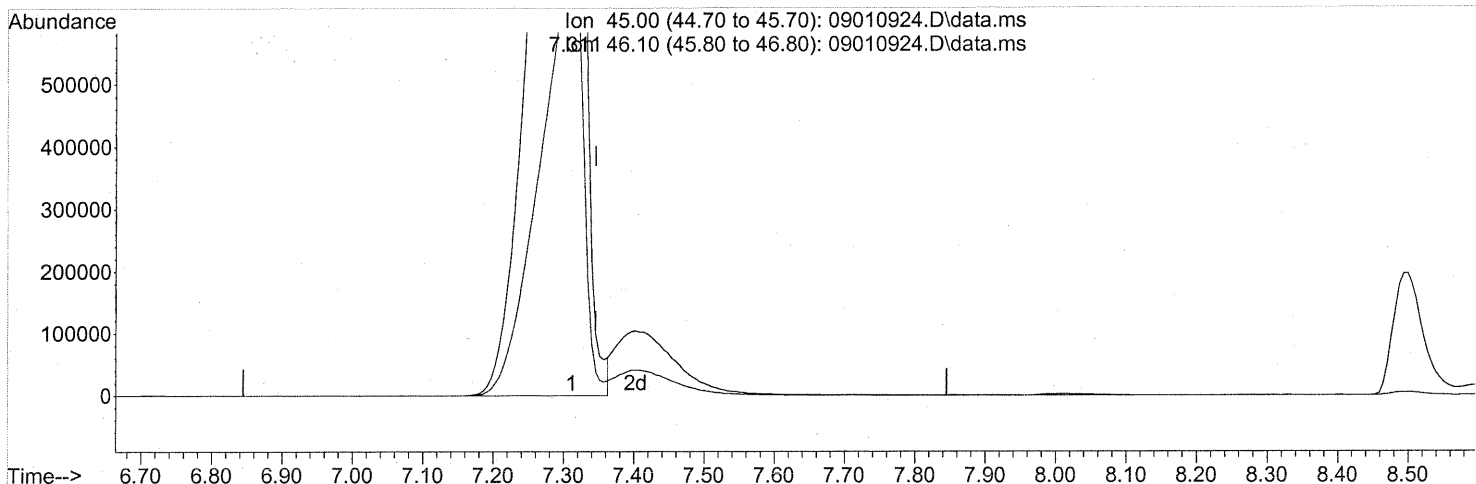
(7) 1,3-Butadiene (T)
 6.083min (-0.011) 1.87ng
 response 53412

Ion	Exp%	Act%
54.10	100	100
39.10	96.60	105.50
53.00	69.80	71.75
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Response via : Initial Calibration



(10) Ethanol (T)

7.311min (-0.034) 394.44ng

response 7593692

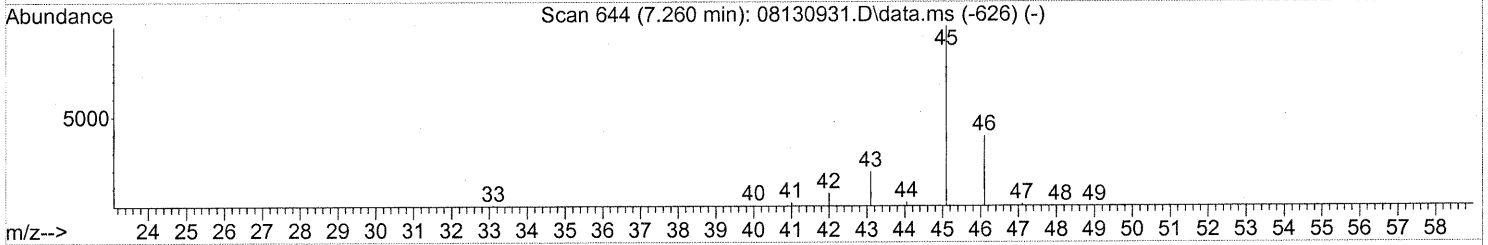
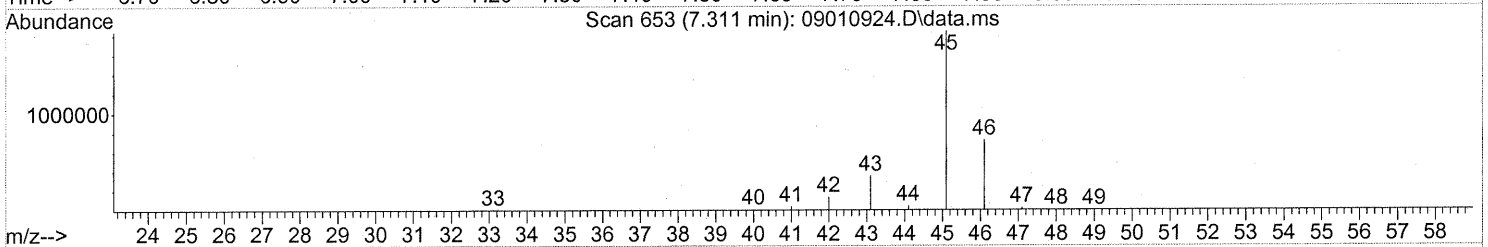
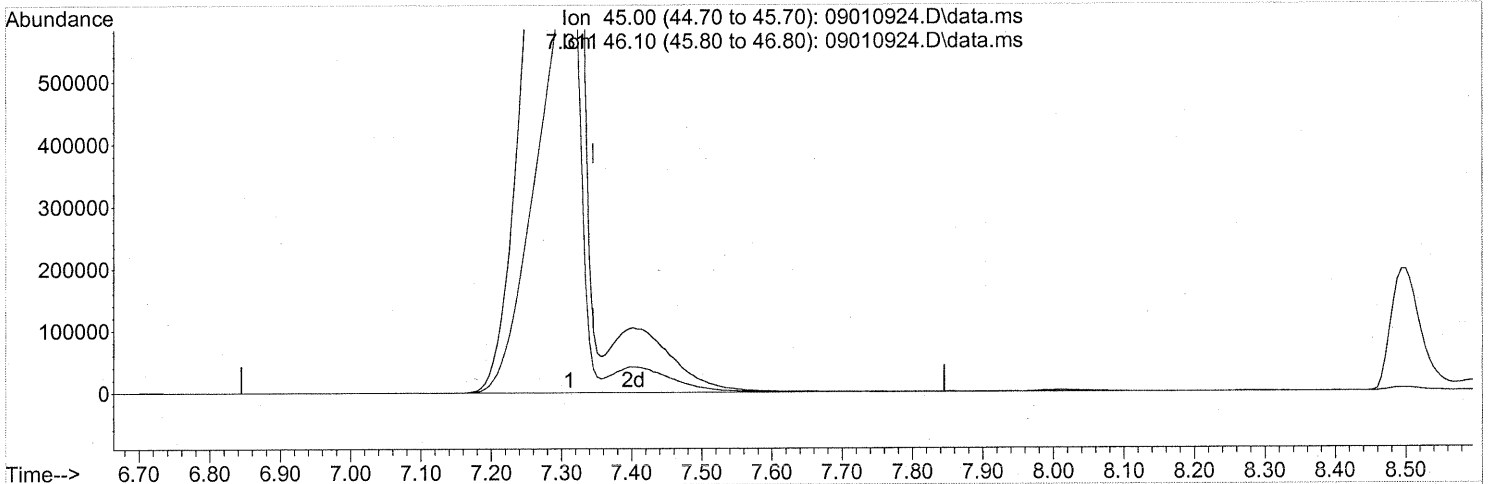
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 09010924.D\data.ms

(10) Ethanol (T)
 7.311min (-0.034) 426.40ng m
 response 8209040

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.11
0.00	0.00	0.00
0.00	0.00	0.00

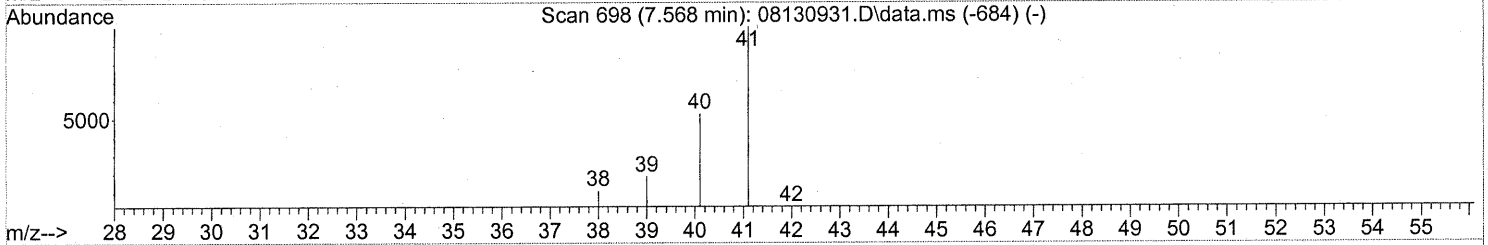
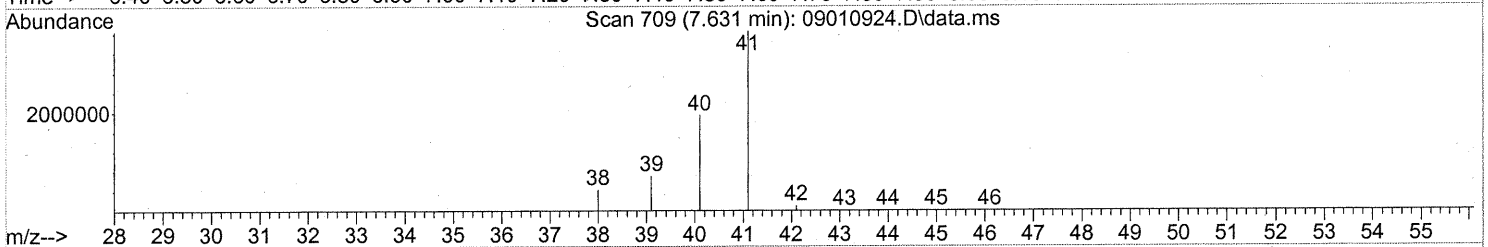
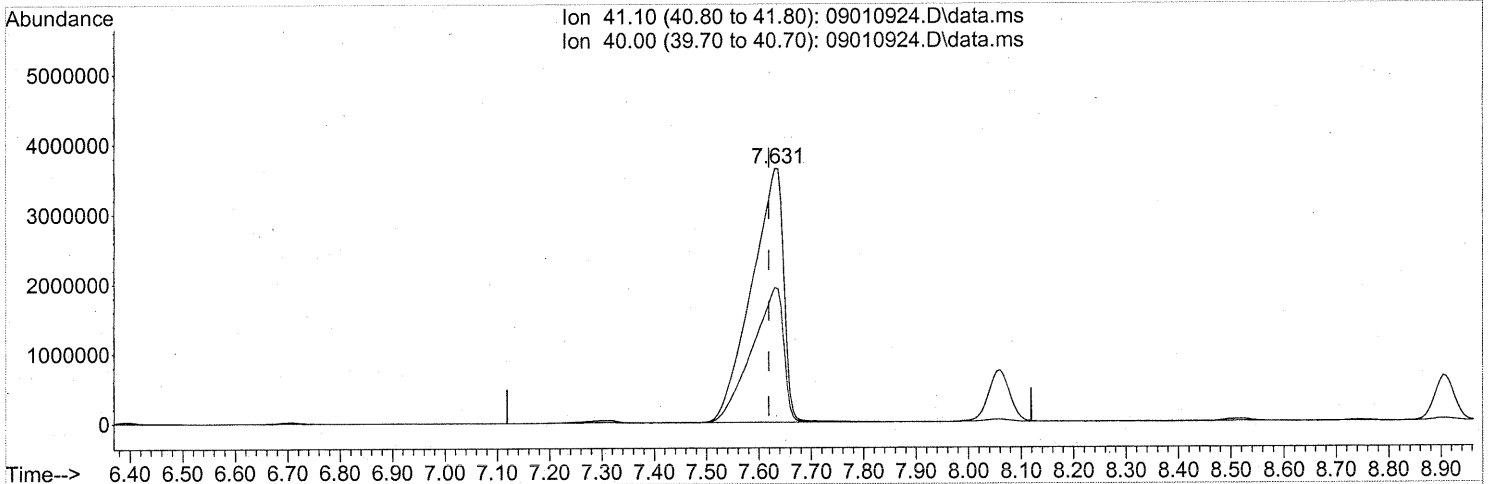
PT → IC
com 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
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 Acq On : 2 Sep 2009 1:25
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TIC: 09010924.D\data.ms

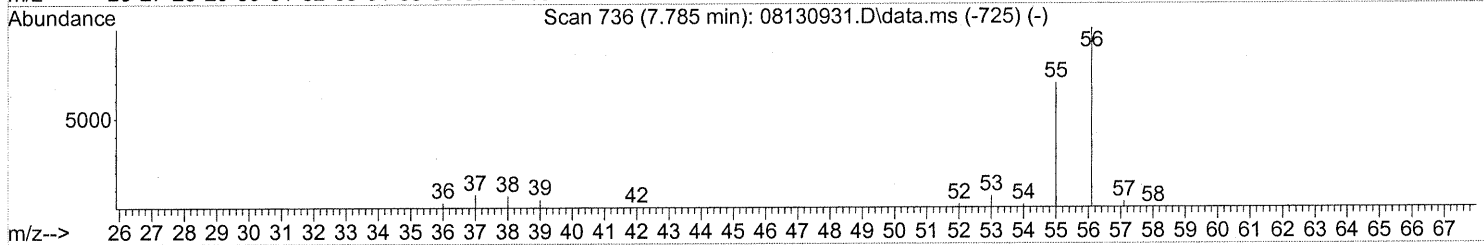
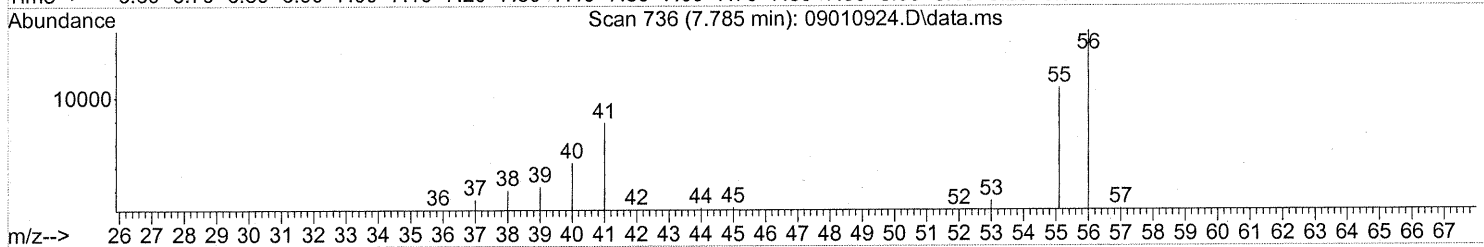
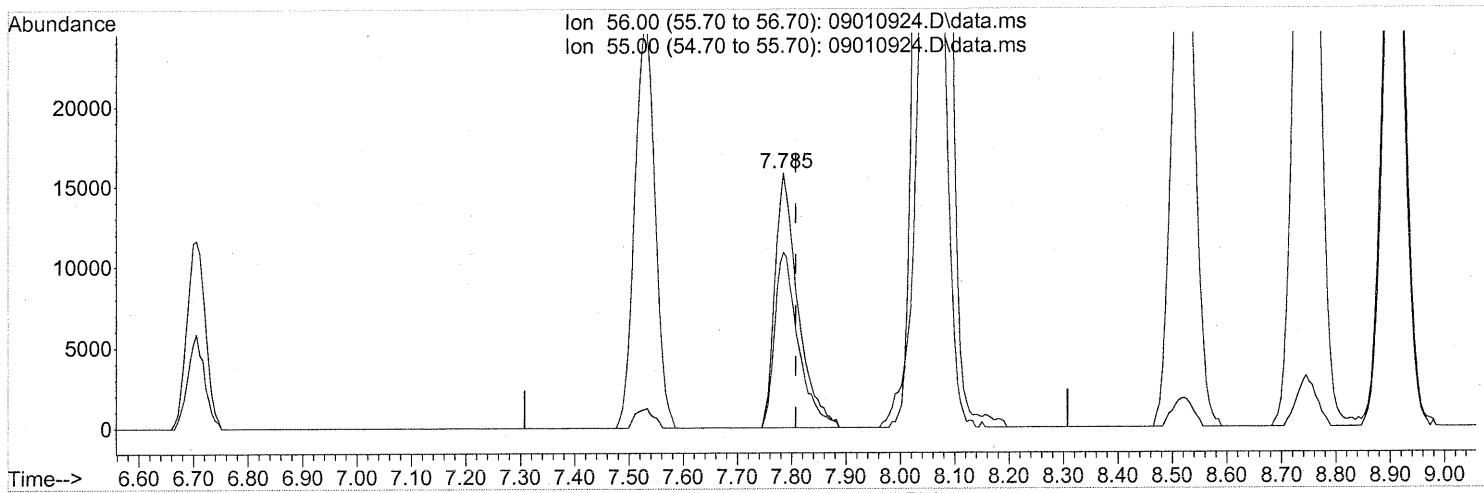
(11) Acetonitrile (T)
 7.631min (+0.011) 332.20ng
 response 15607733

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



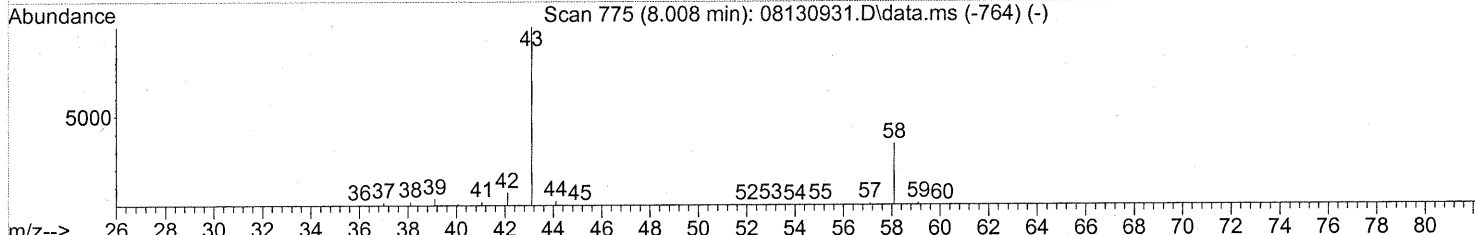
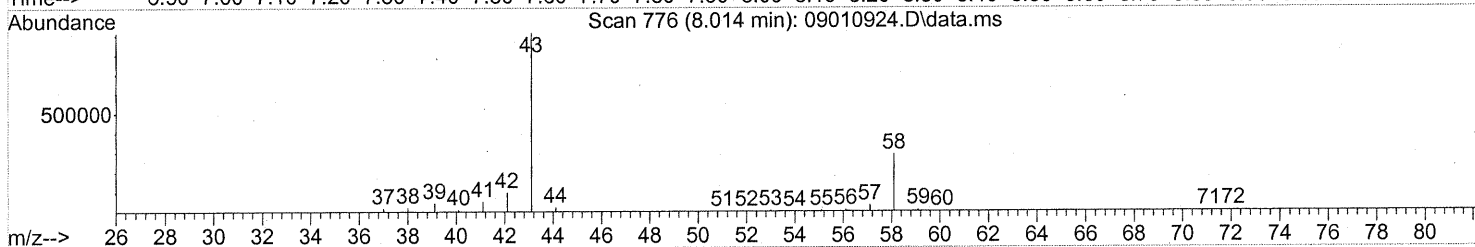
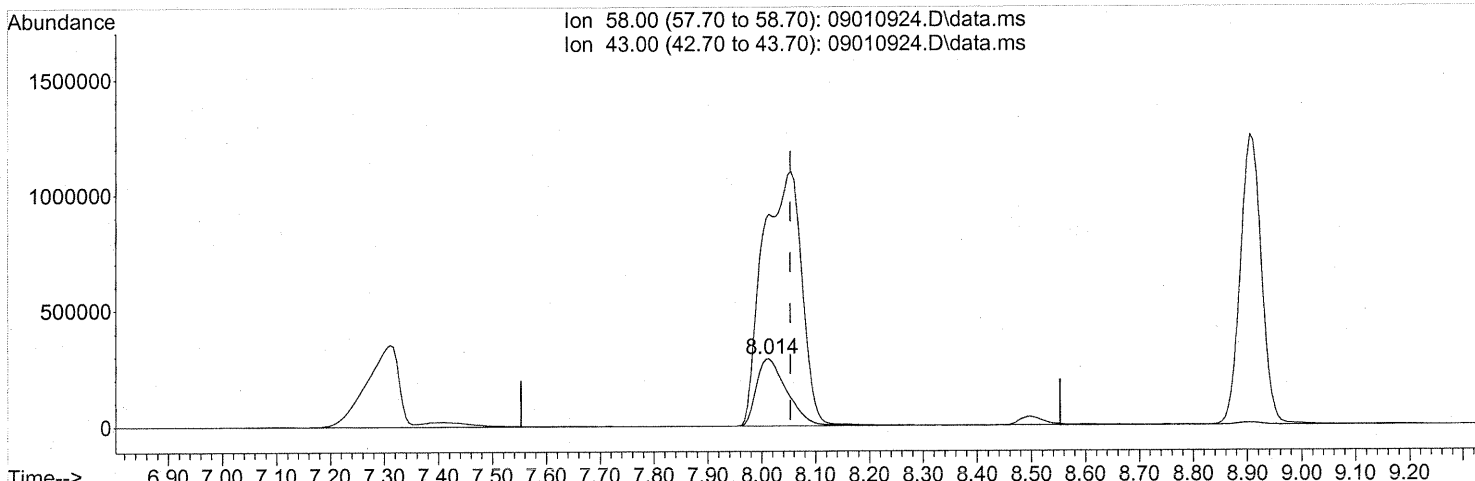
(12) Acrolein (T)
 7.785min (-0.023) 3.69ng
 response 46349

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	70.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(13) Acetone (T)

8.014min (-0.040) 57.56ng

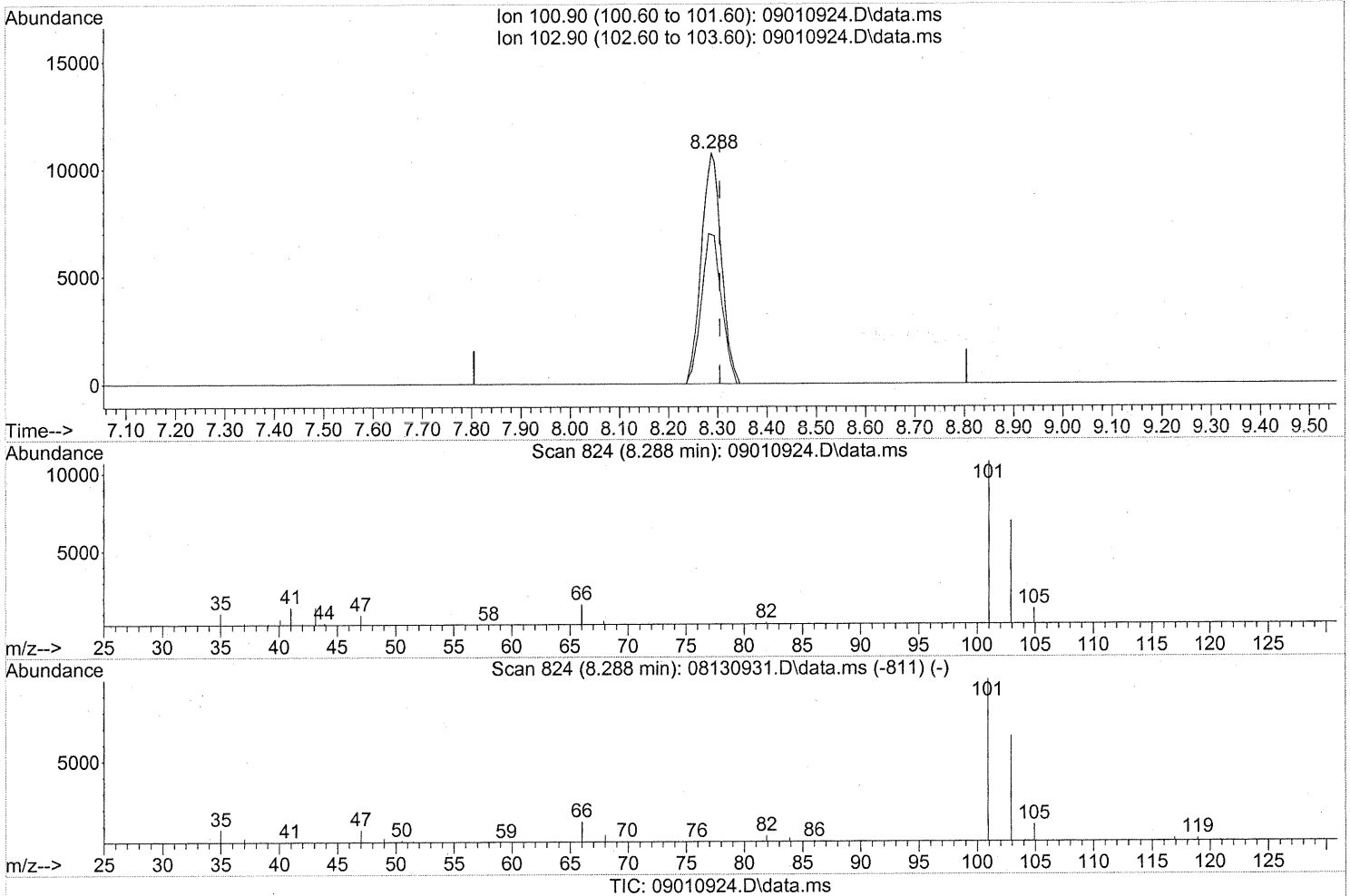
response 1127587

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.288min (-0.017) 0.81ng

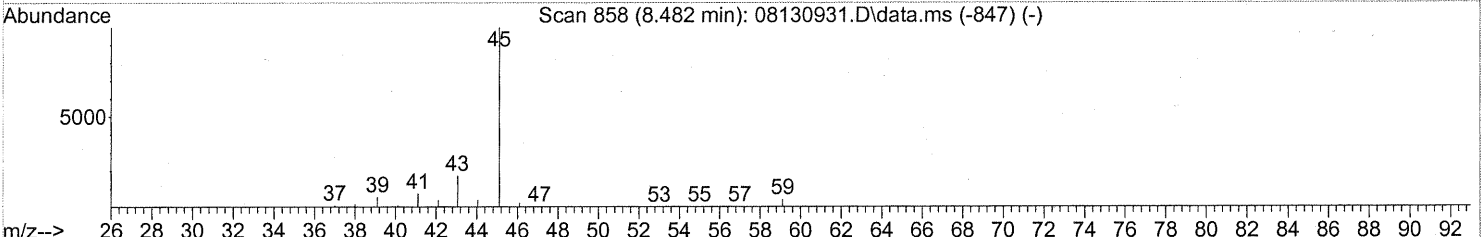
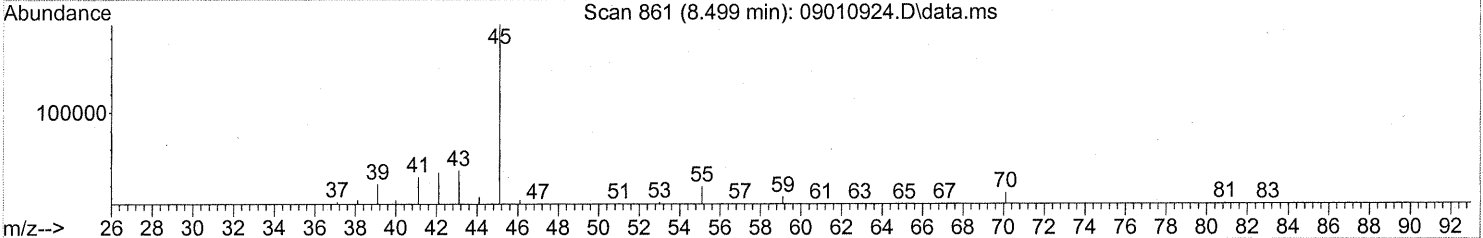
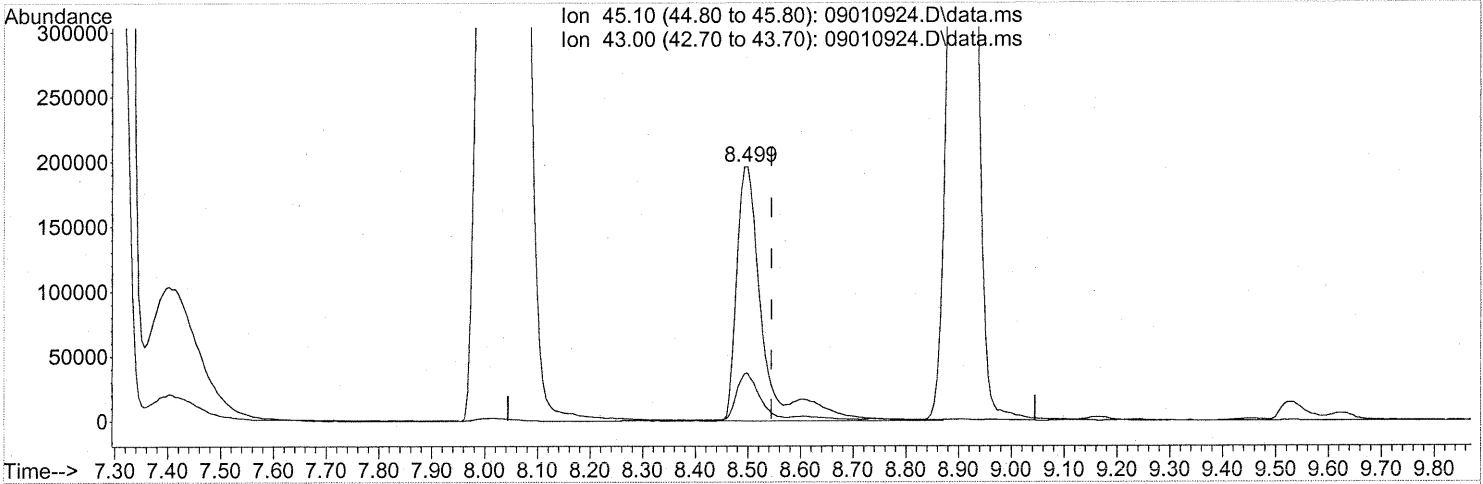
response 30223

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	65.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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) 12.55ng

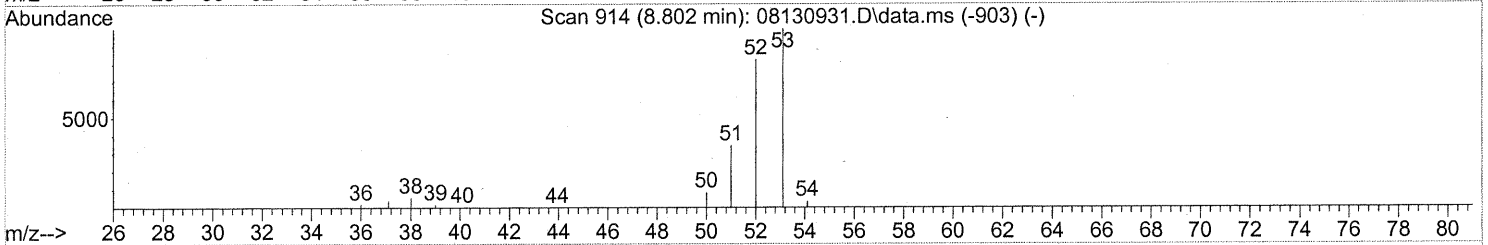
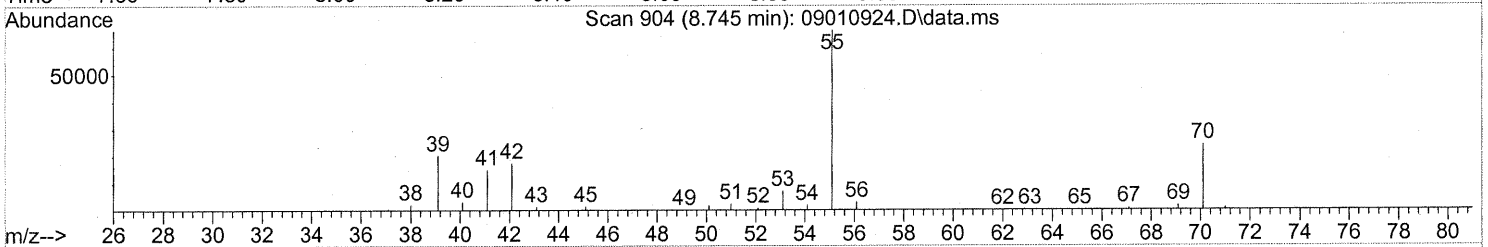
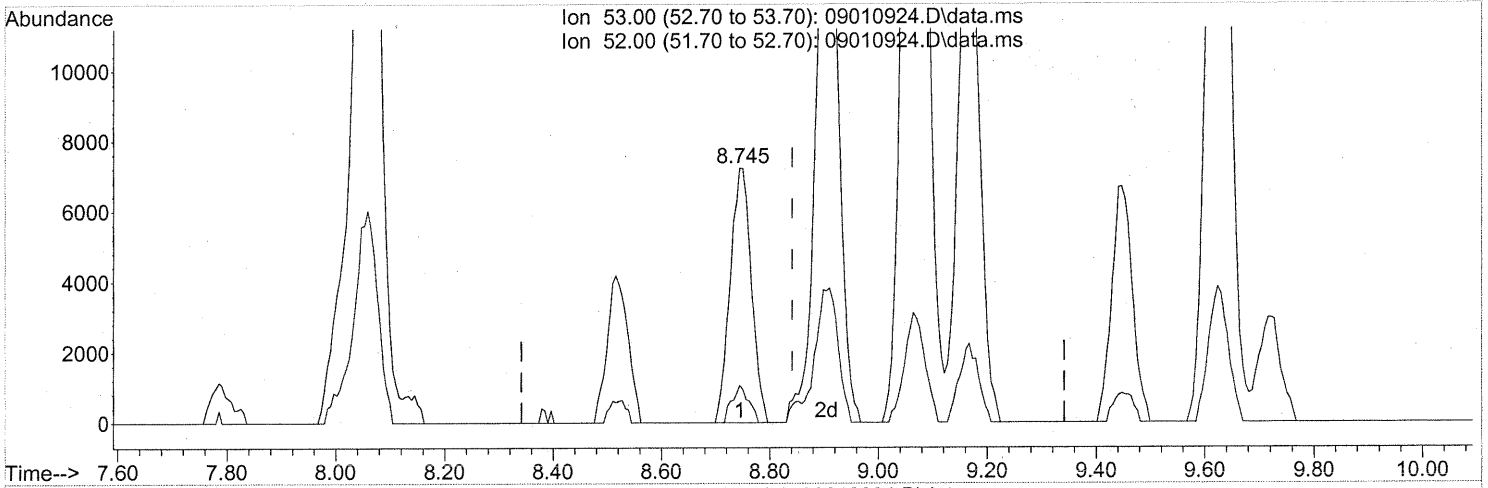
response 673581

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.745min (-0.097) 0.69ng
 response 19592

Ion	Exp%	Act%
53.00	100	100
52.00	84.50	11.48#
0.00	0.00	0.00
0.00	0.00	0.00

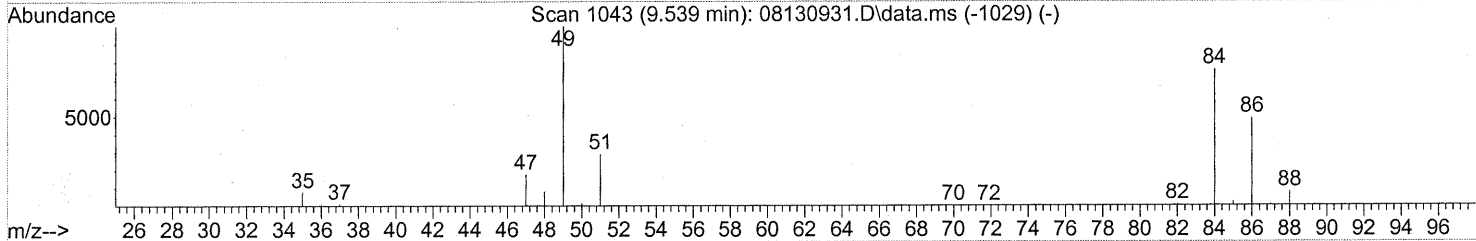
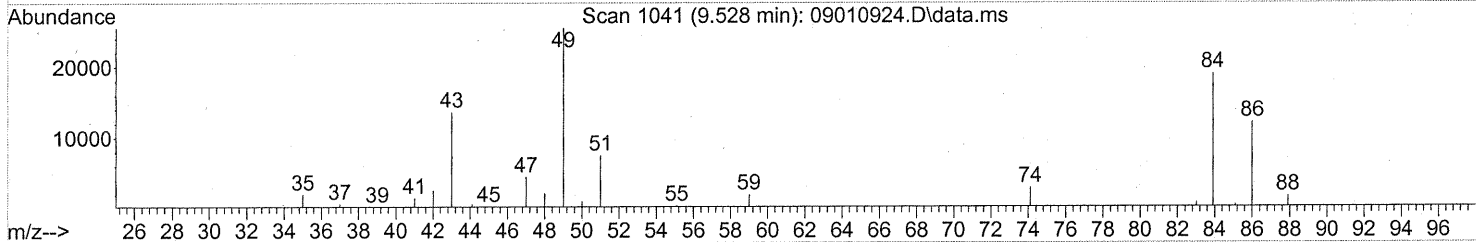
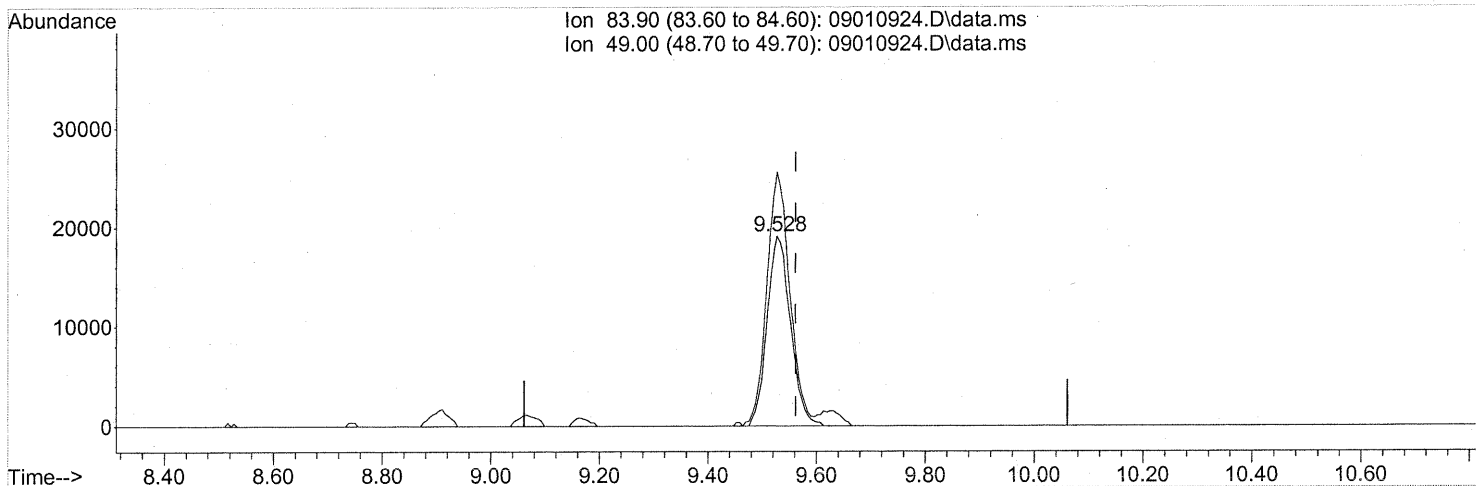
FP em 9/8/09

kr 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(19) Methylene Chloride (T)

9.528min (-0.034) 2.33ng

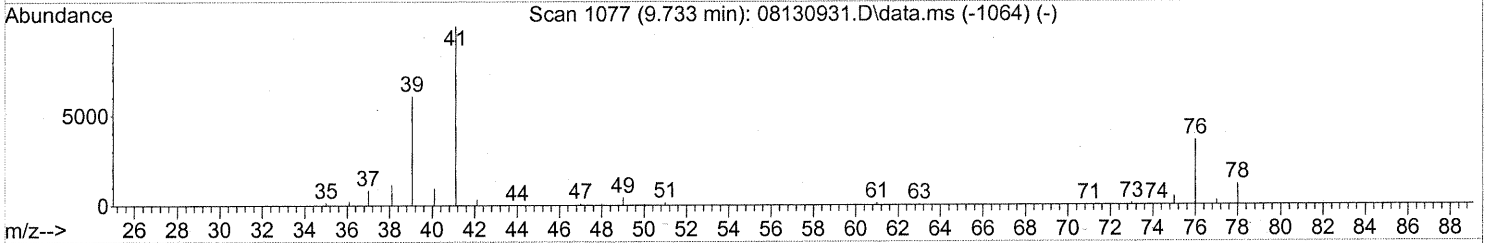
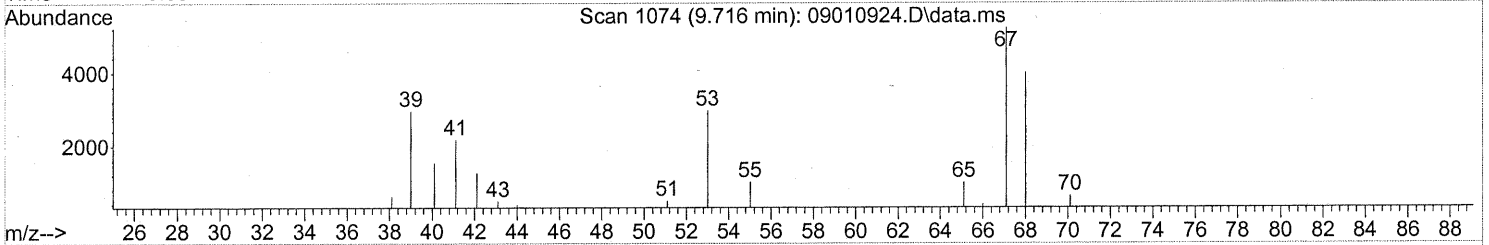
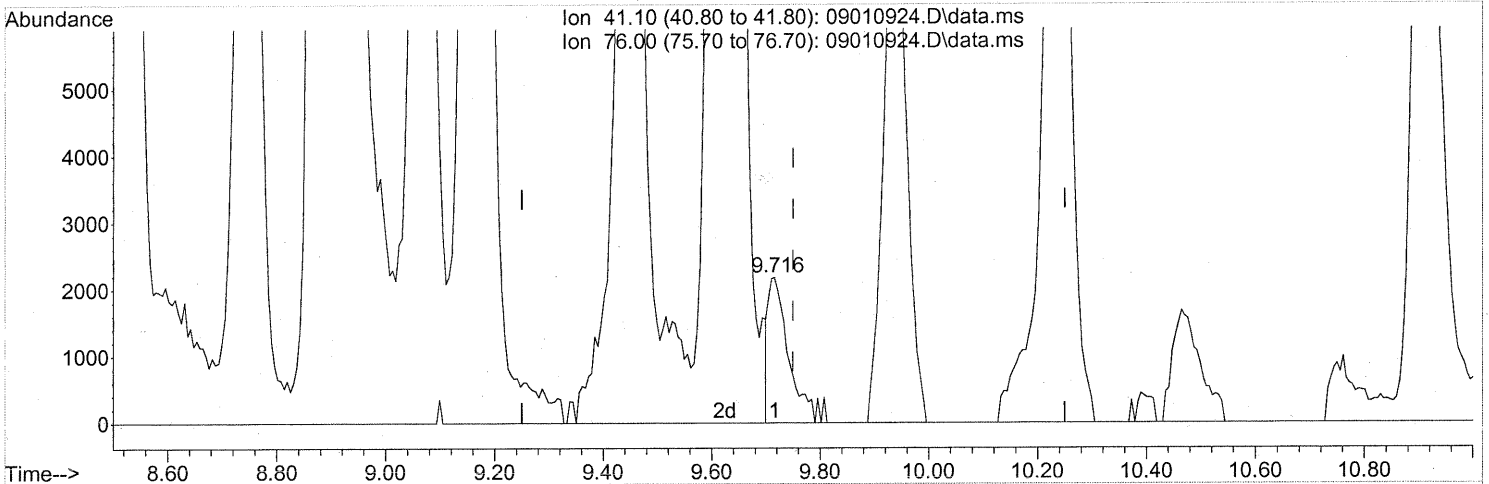
response 56870

Ion	Exp%	Act%
83.90	100	100
49.00	118.80	132.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)

9.716min (-0.034) 0.17ng

response 5651

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

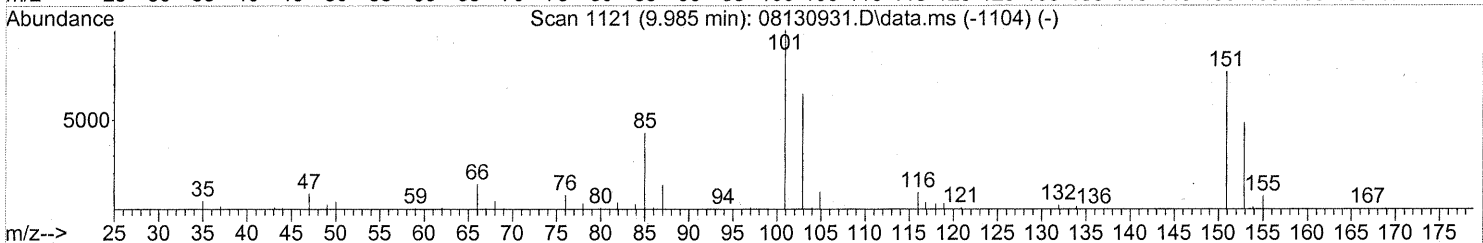
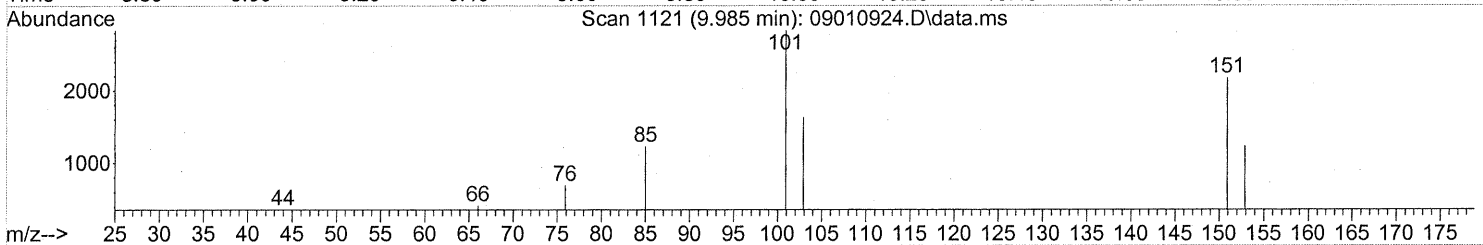
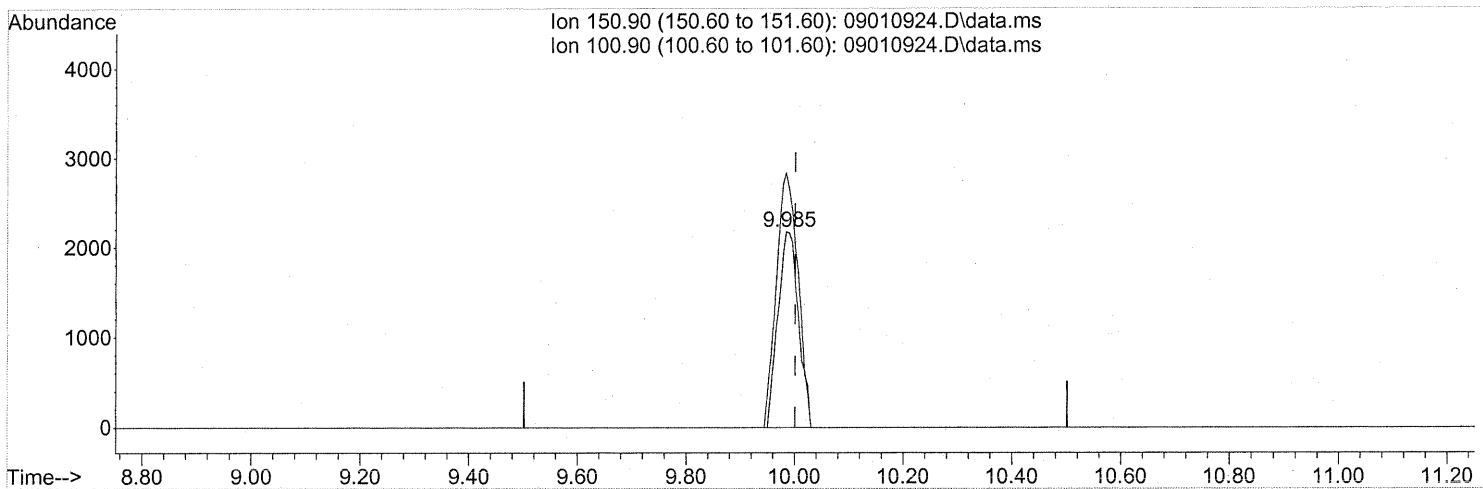
FP em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.34ng

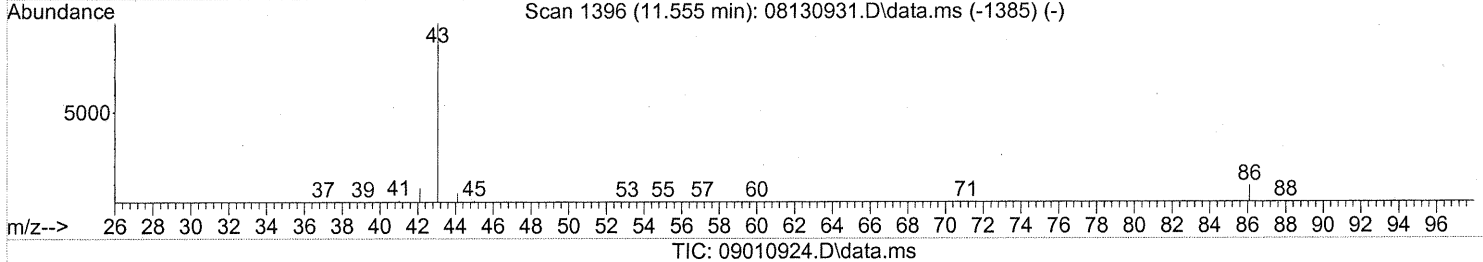
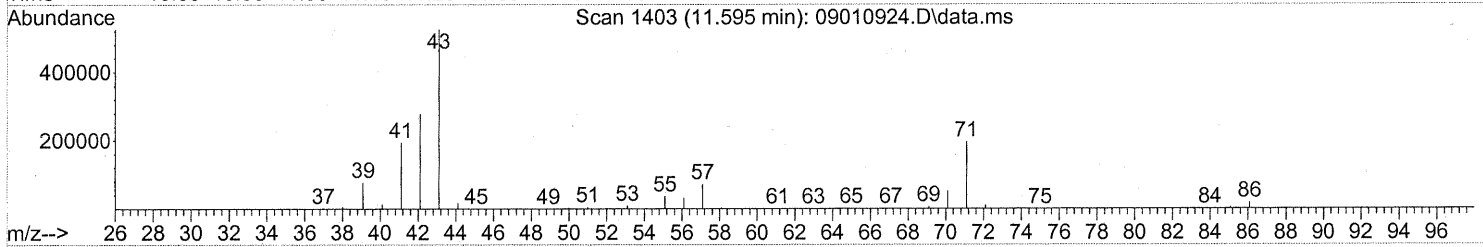
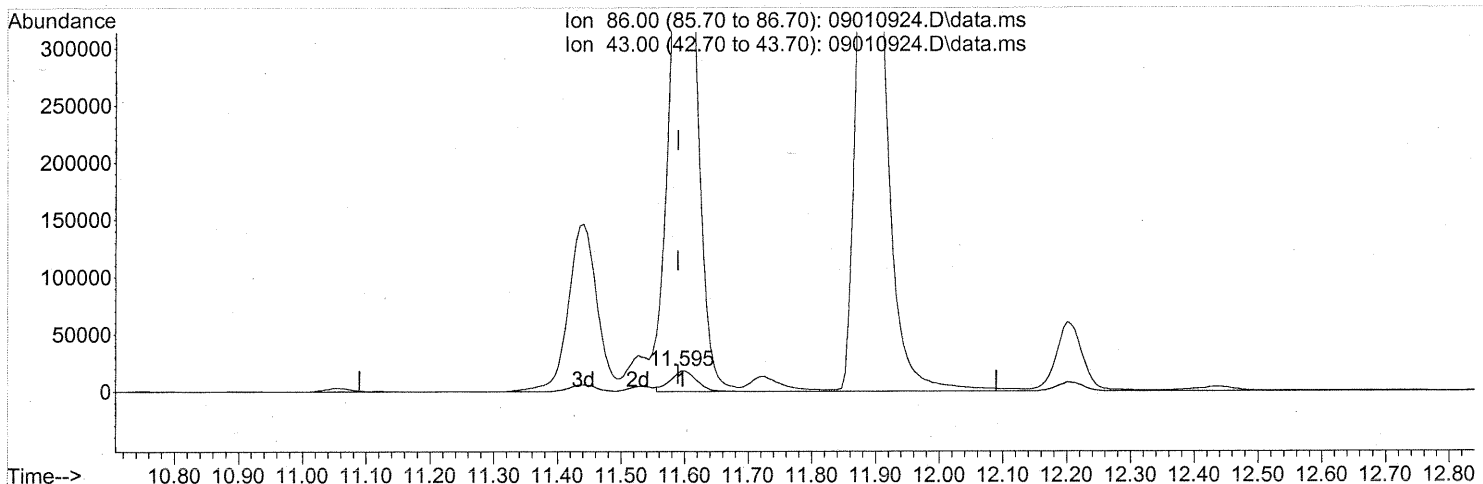
response 5689

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	137.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)
 11.595min (+0.005) 12.06ng
 response 51161

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	2863.76#
0.00	0.00	0.00
0.00	0.00	0.00

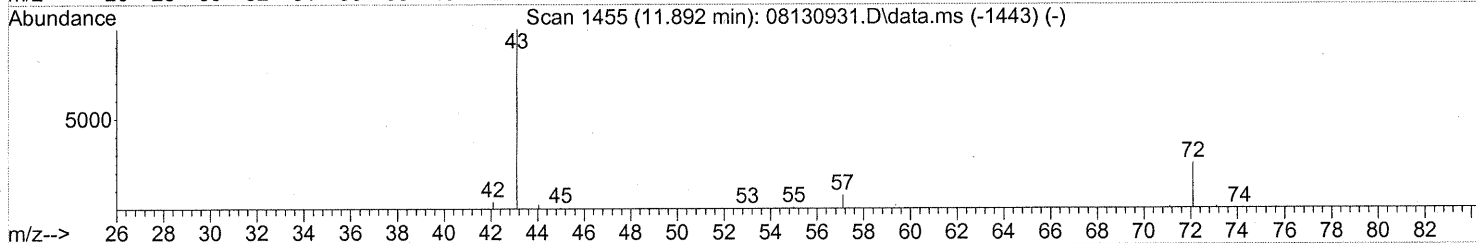
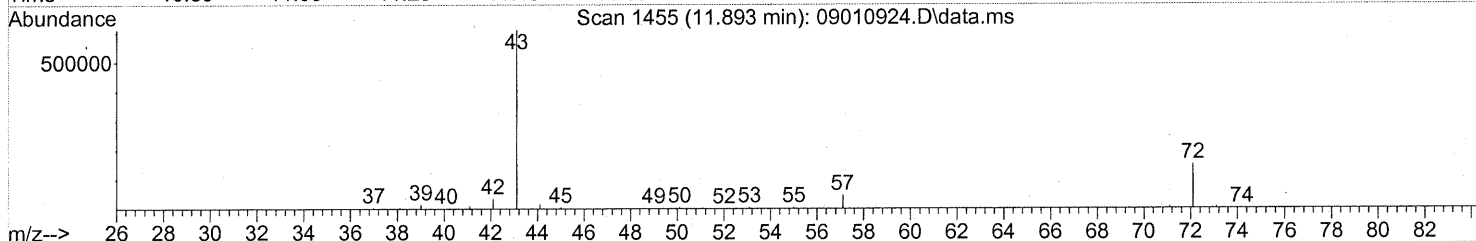
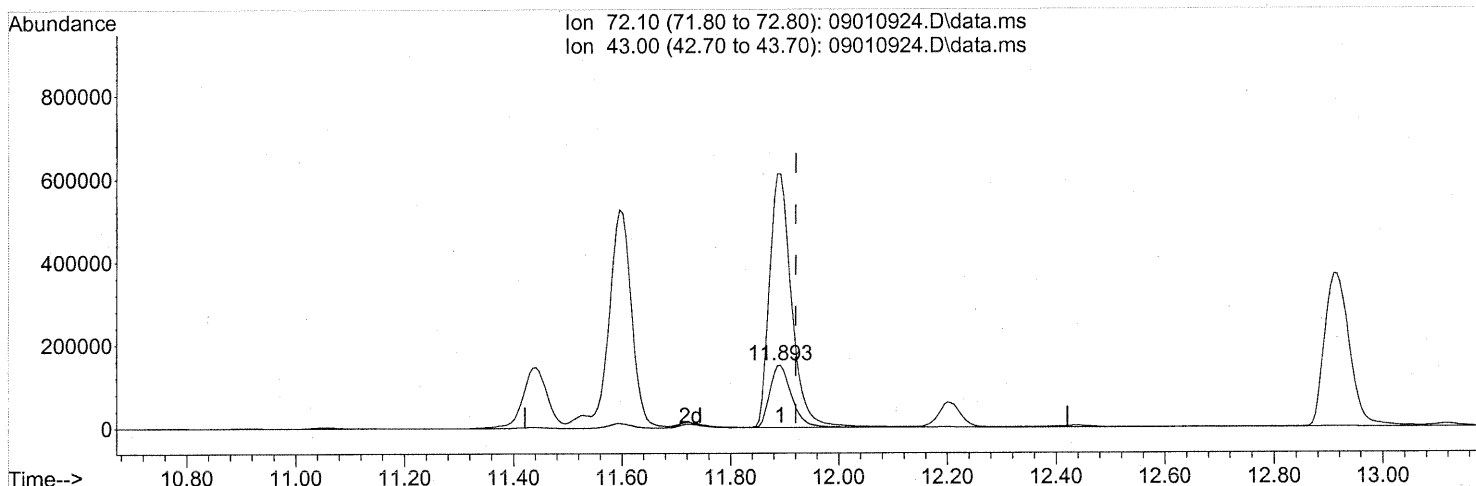
FP em 9/8/09

kr9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

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

11.893min (-0.028) 30.69ng

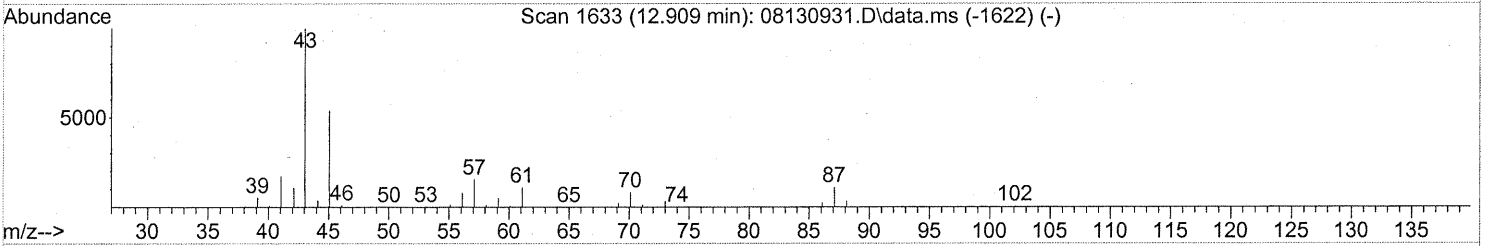
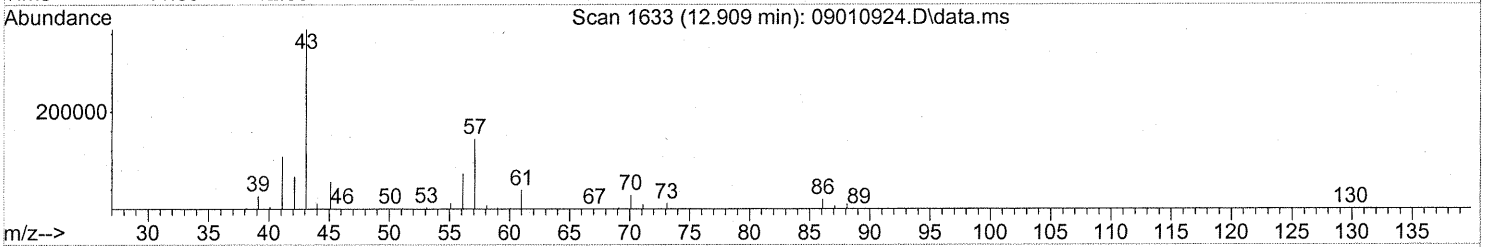
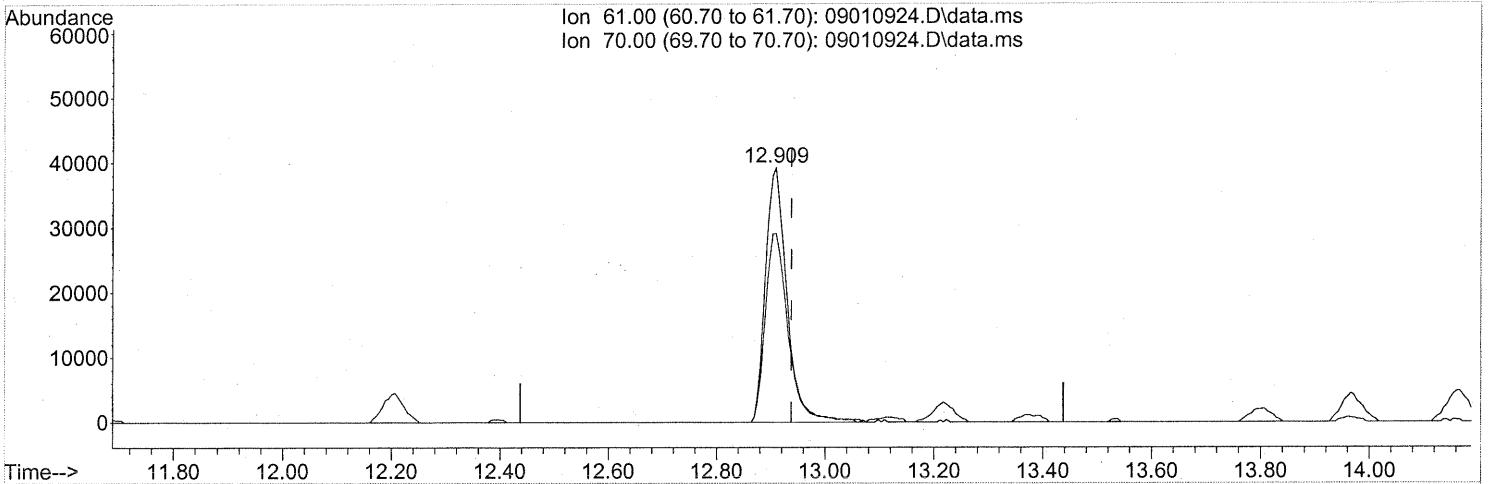
response 419111

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	411.87#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

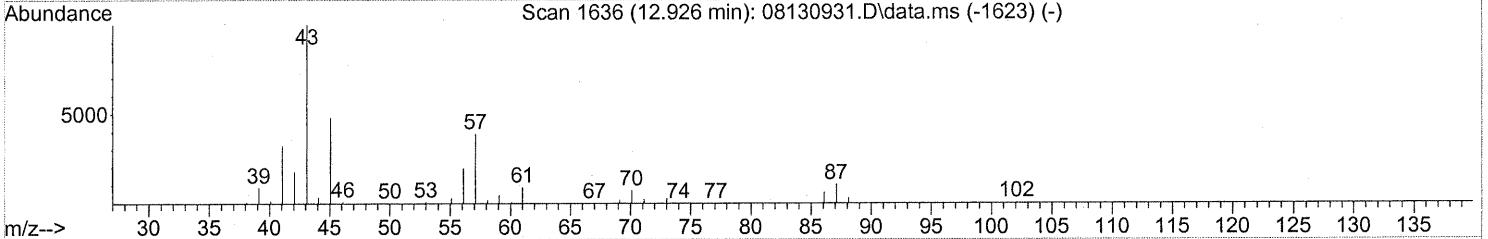
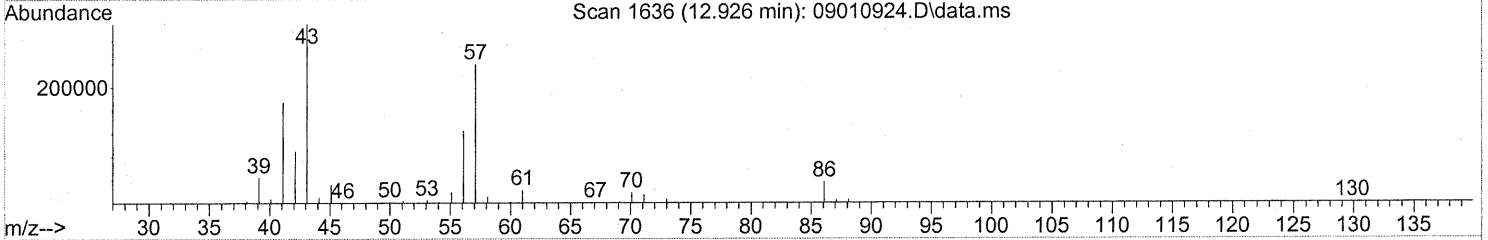
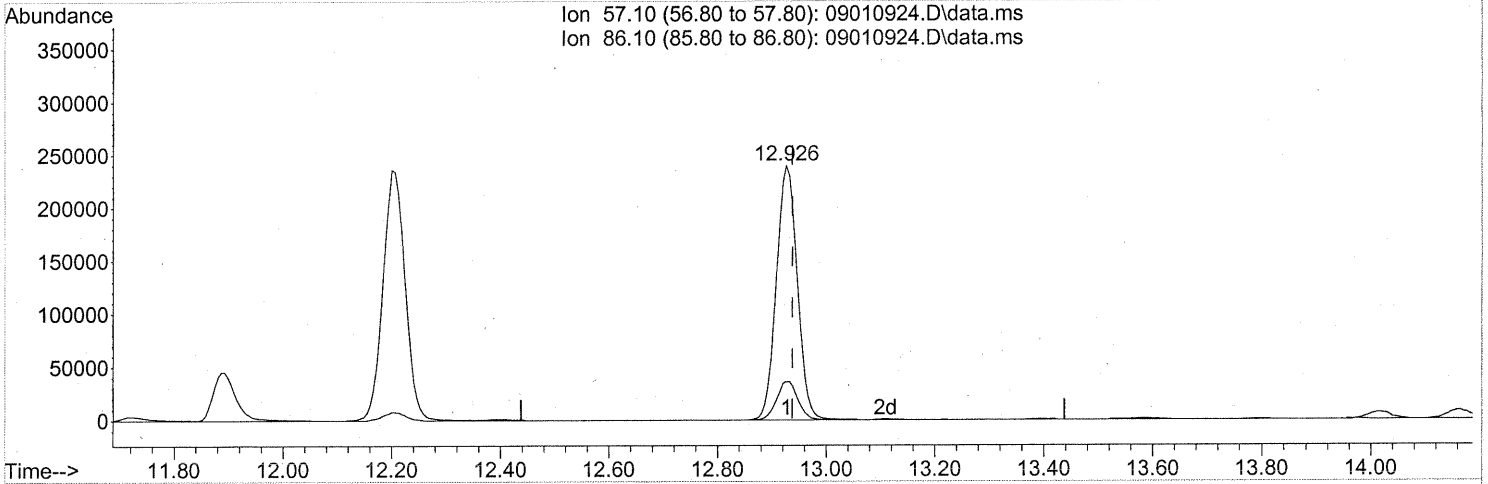
(30) Ethyl Acetate (T)
 12.909min (-0.029) 12.18ng
 response 107909

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	78.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

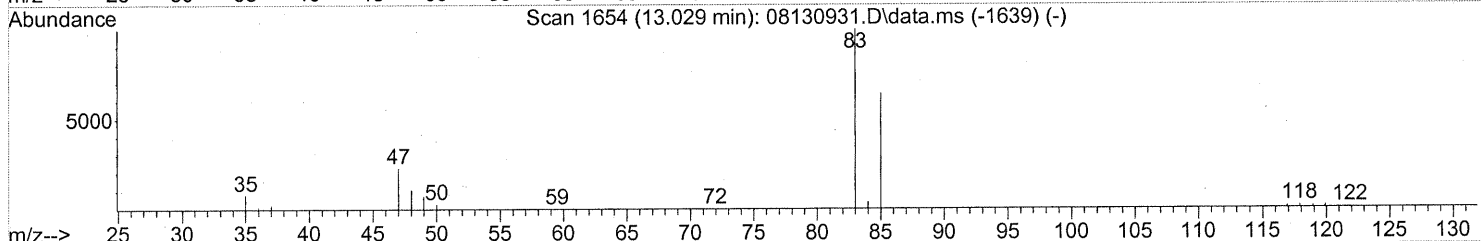
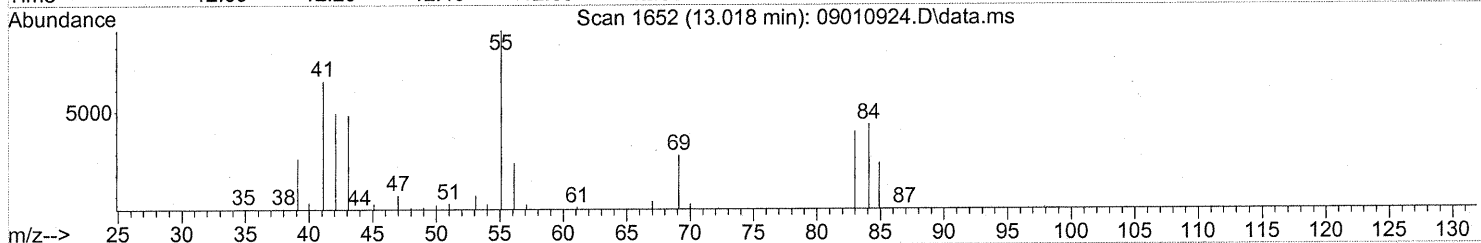
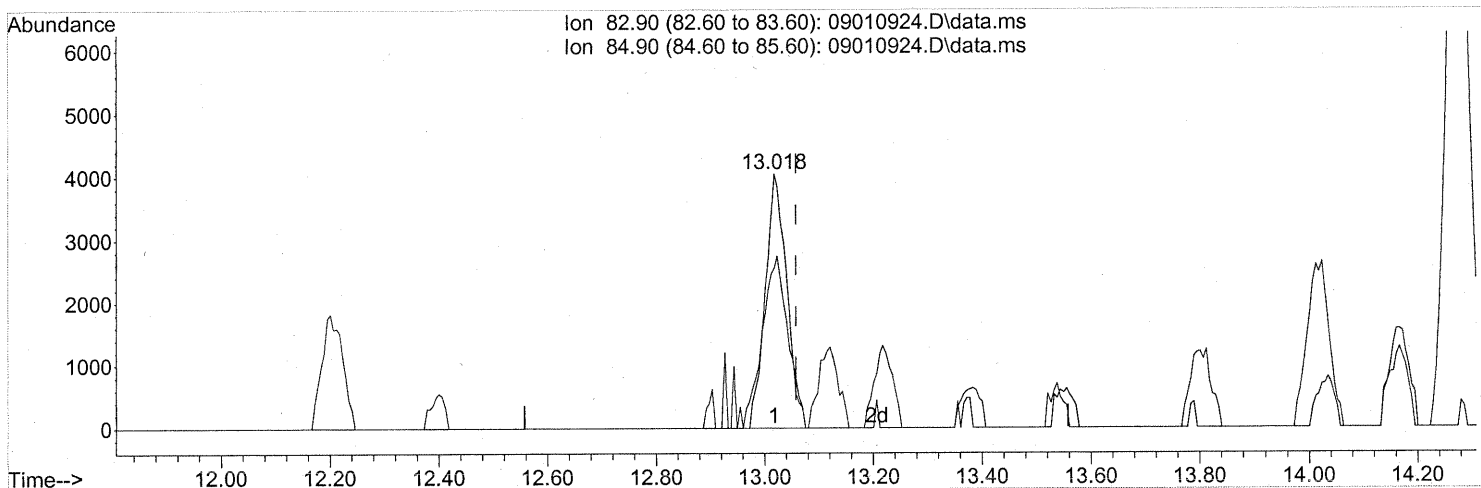
(31) n-Hexane (T)
 12.926min (-0.011) 14.81ng
 response 639301

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_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(32) Chloroform (T)
 13.018min (-0.040) 0.31ng
 response 11172

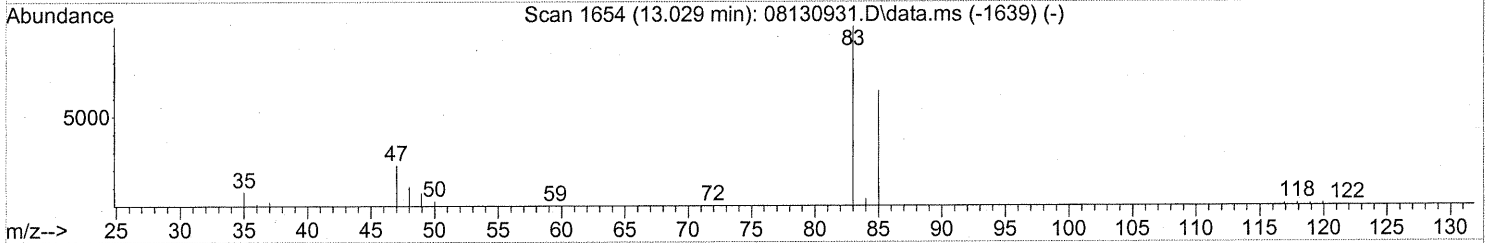
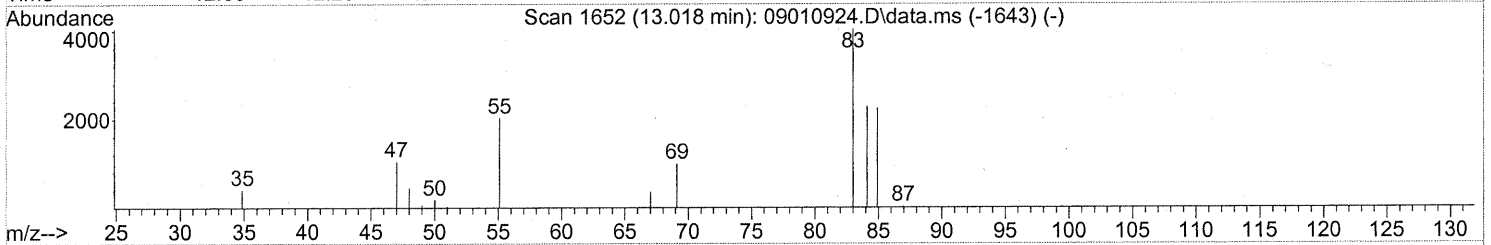
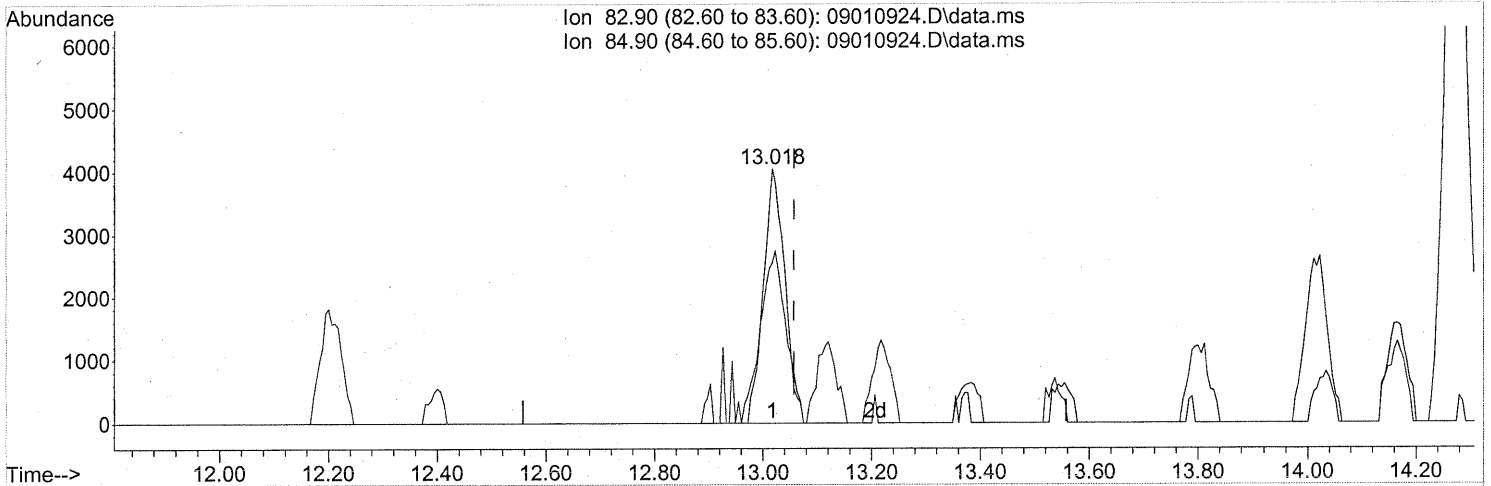
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	79.75
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(32) Chloroform (T)
 13.018min (-0.040) 0.31ng
 response 11172

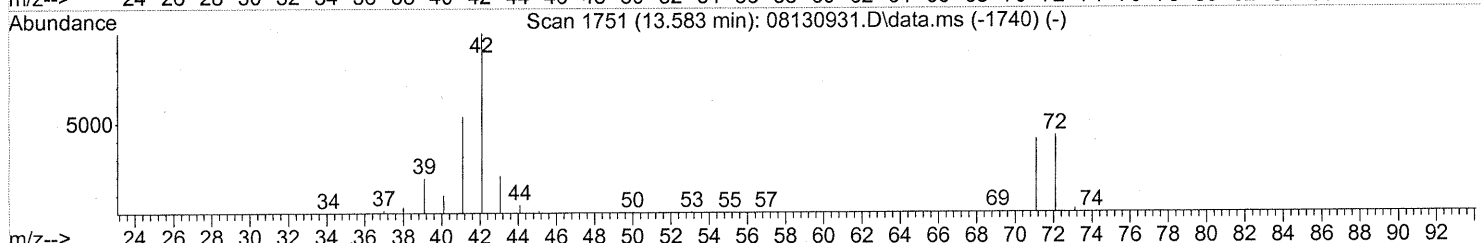
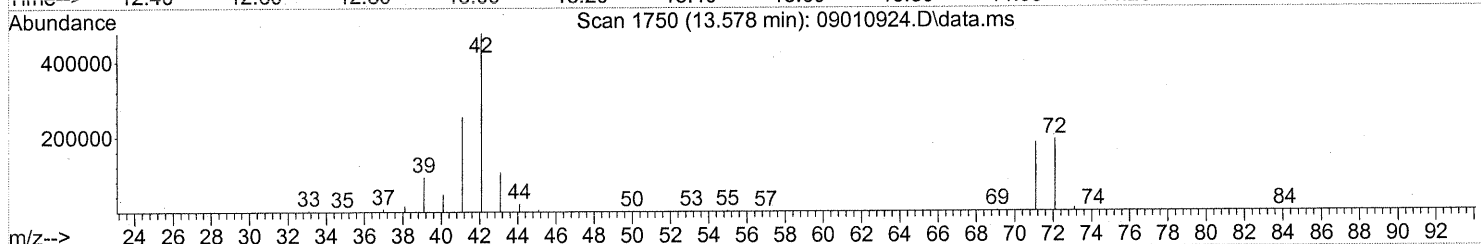
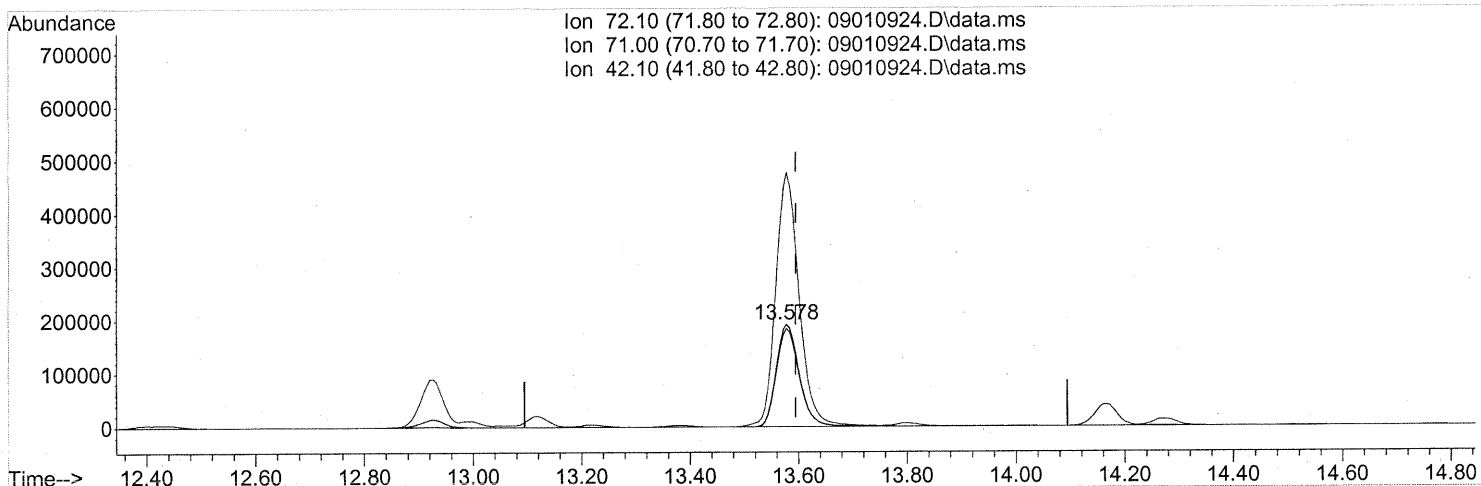
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	79.75
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
Em 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.578min (-0.017) 39.54ng

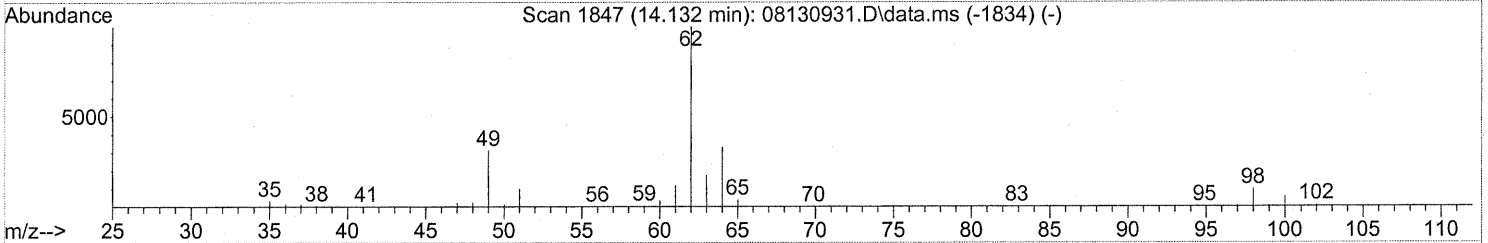
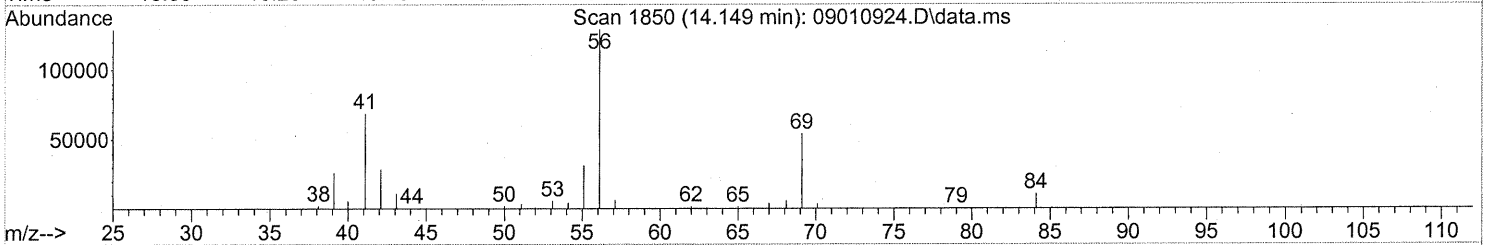
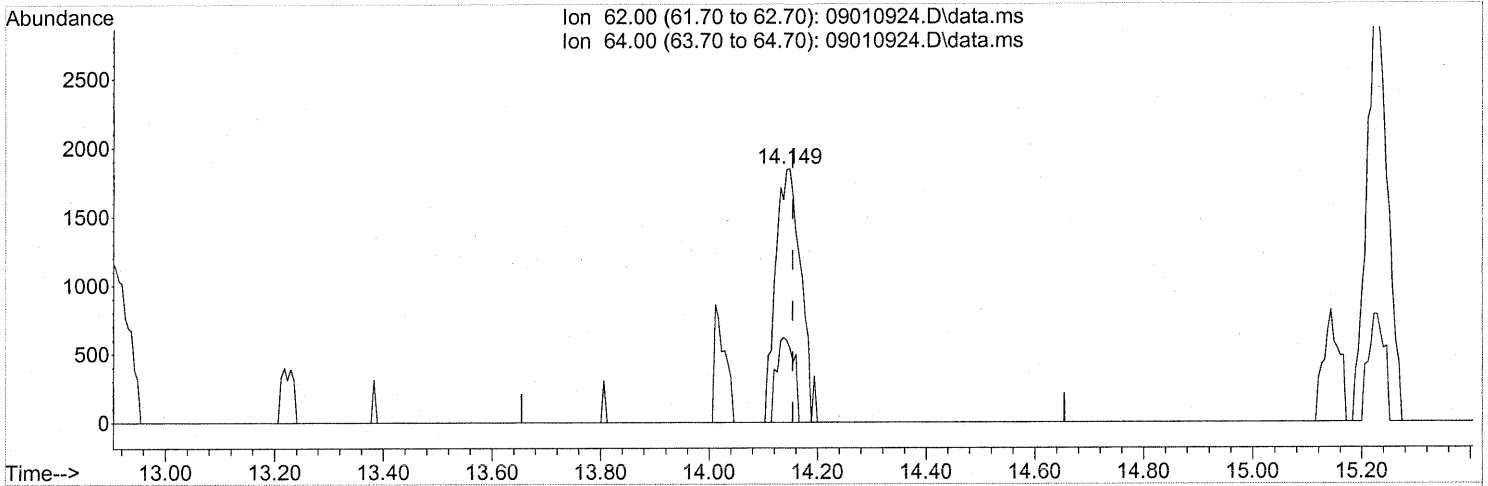
response 561477

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	95.18
42.10	206.50	253.37#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(36) 1,2-Dichloroethane (T)

14.149min (-0.006) 0.22ng

response 5971

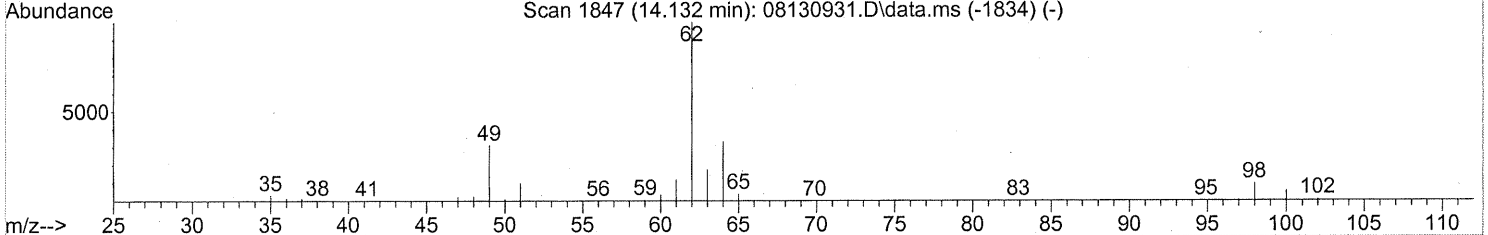
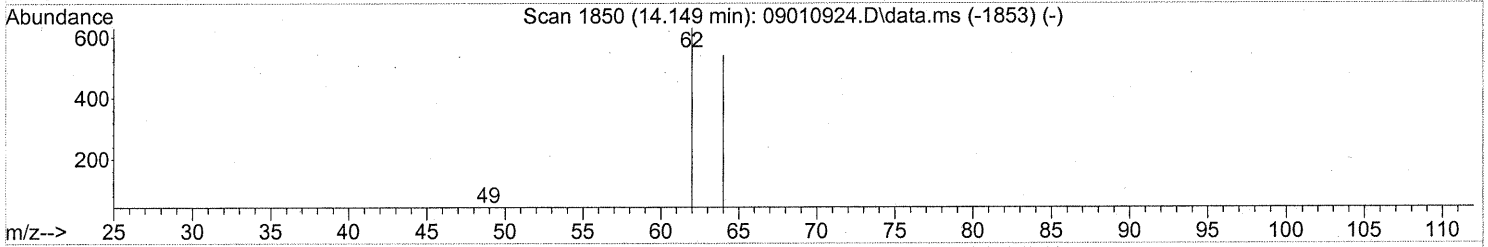
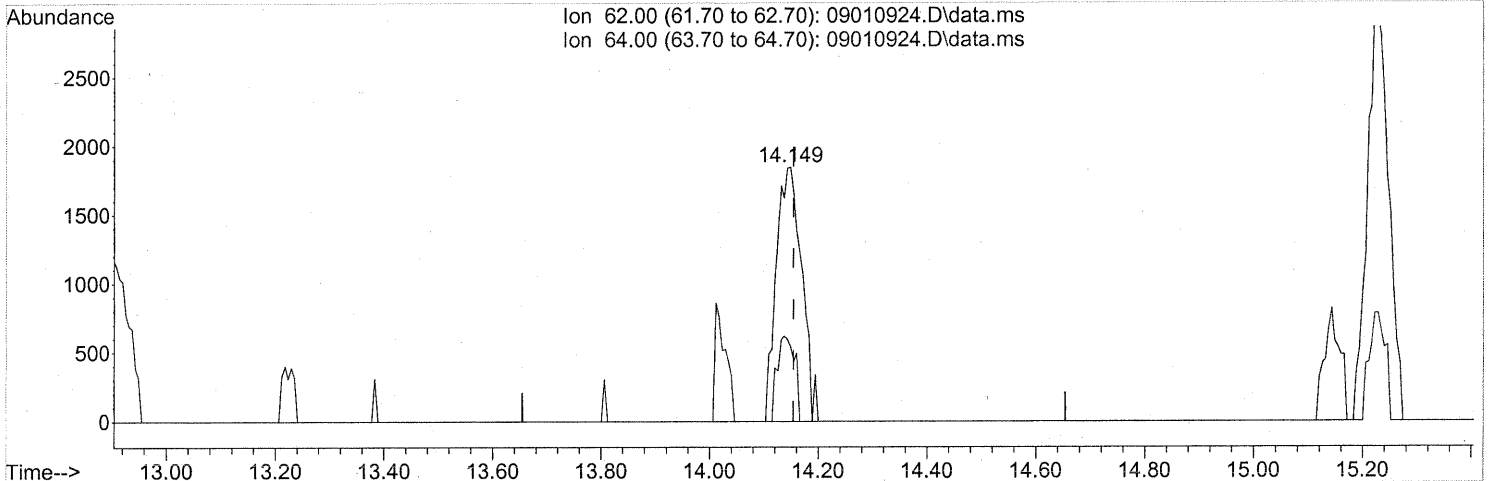
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	23.11
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(36) 1,2-Dichloroethane (T)

14.149min (-0.006) 0.22ng

response 5971

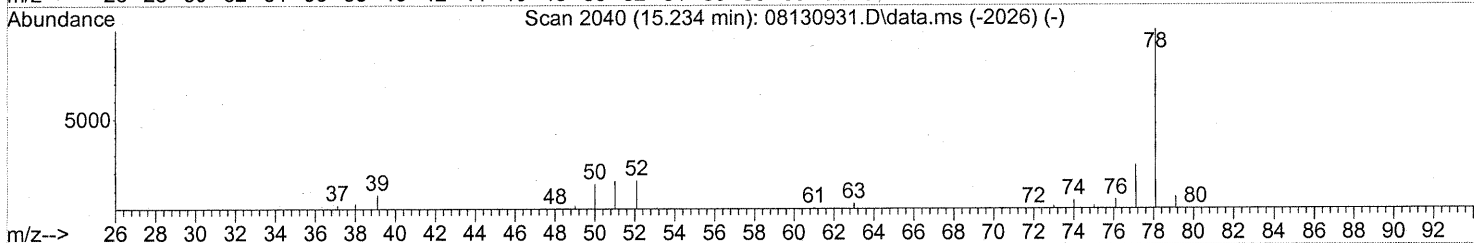
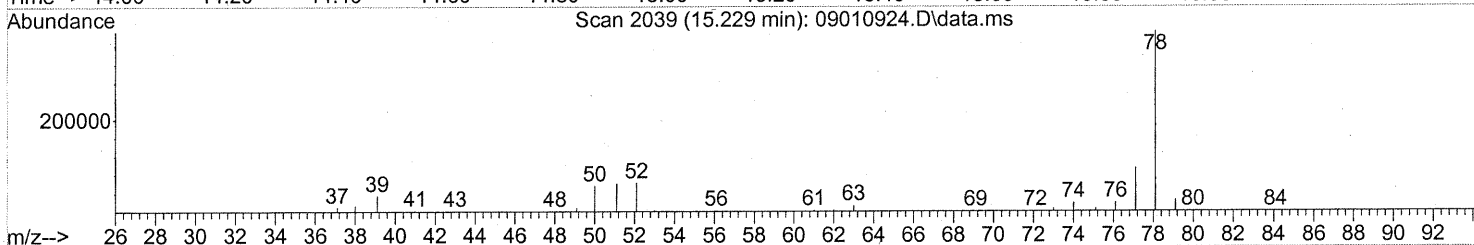
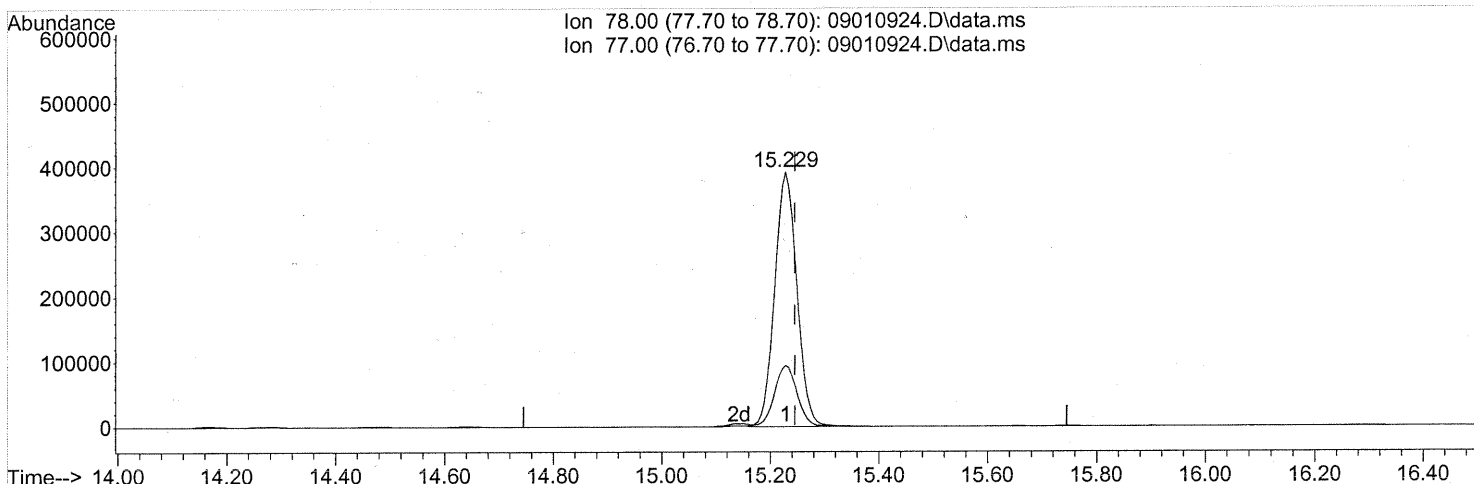
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	23.11
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
com 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(41) Benzene (T)

15.229min (-0.017) 11.55ng

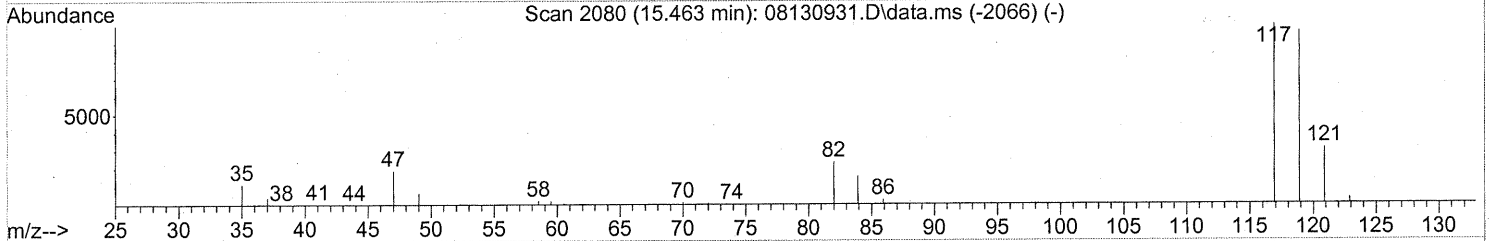
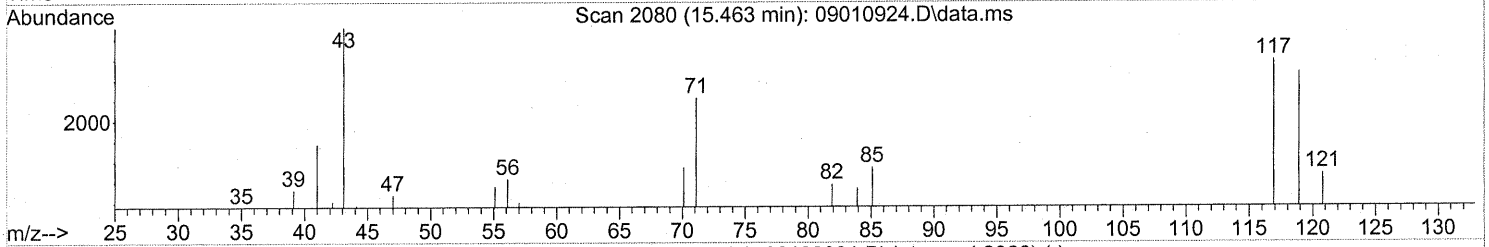
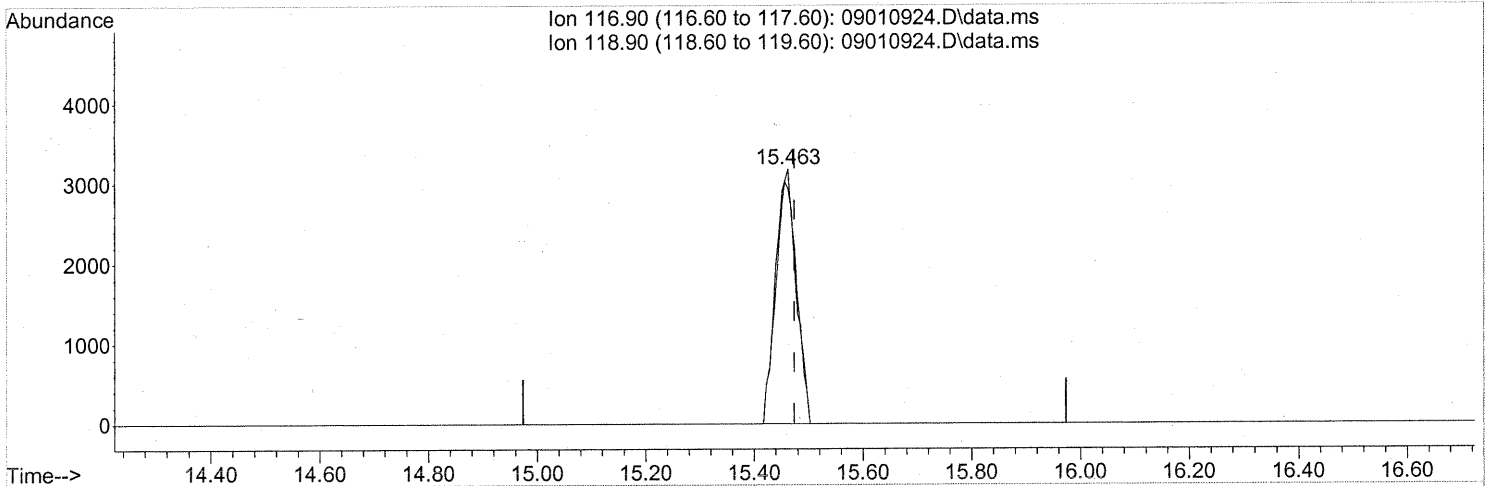
response 1108464

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(42) Carbon Tetrachloride (T)

15.463min (-0.011) 0.32ng

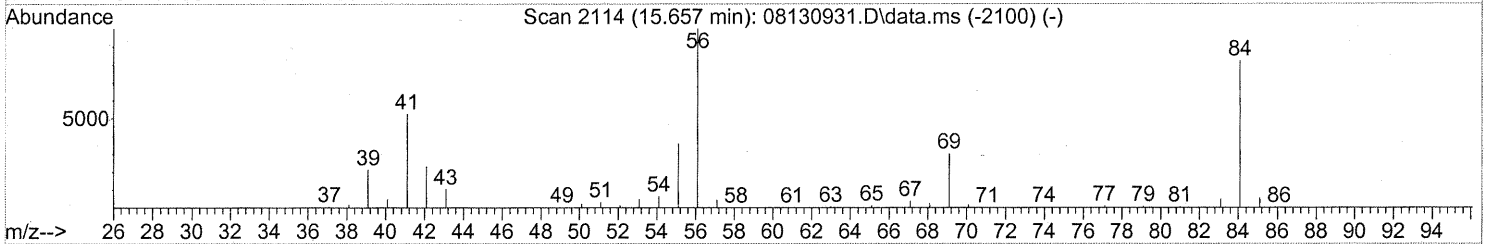
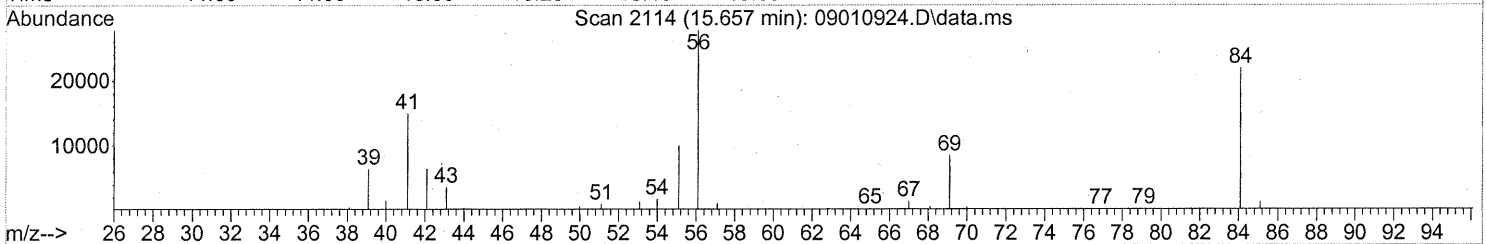
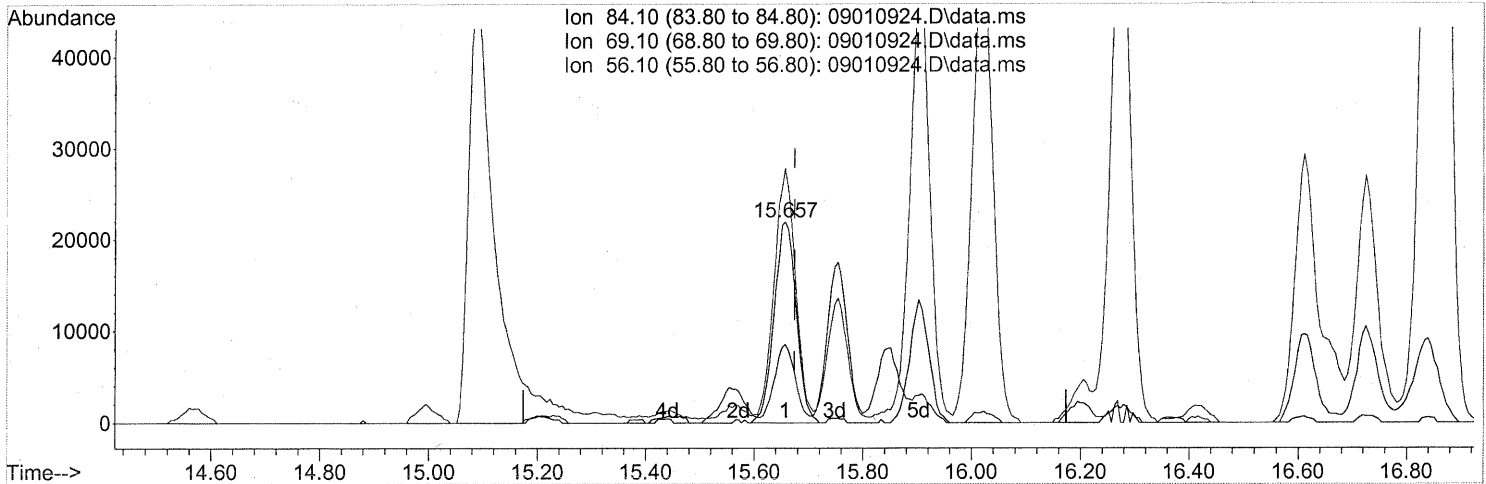
response 8452

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	93.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

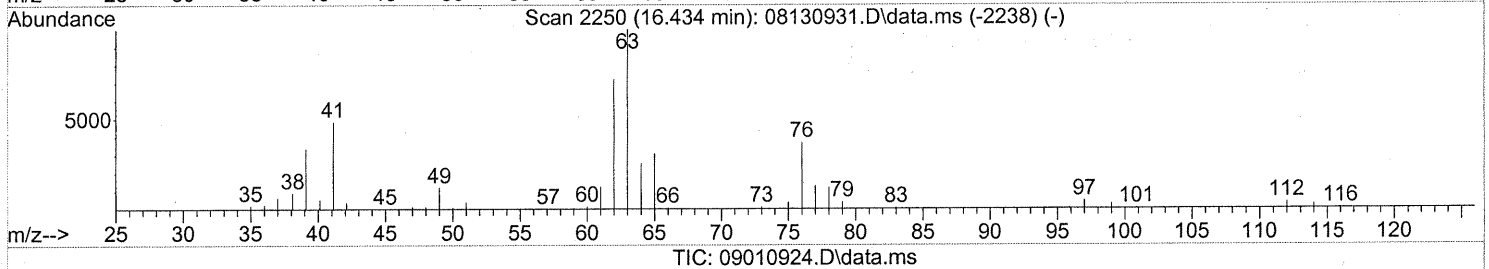
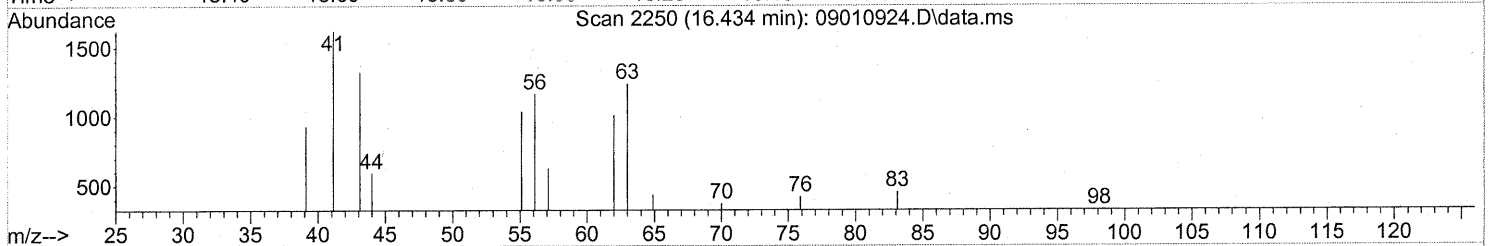
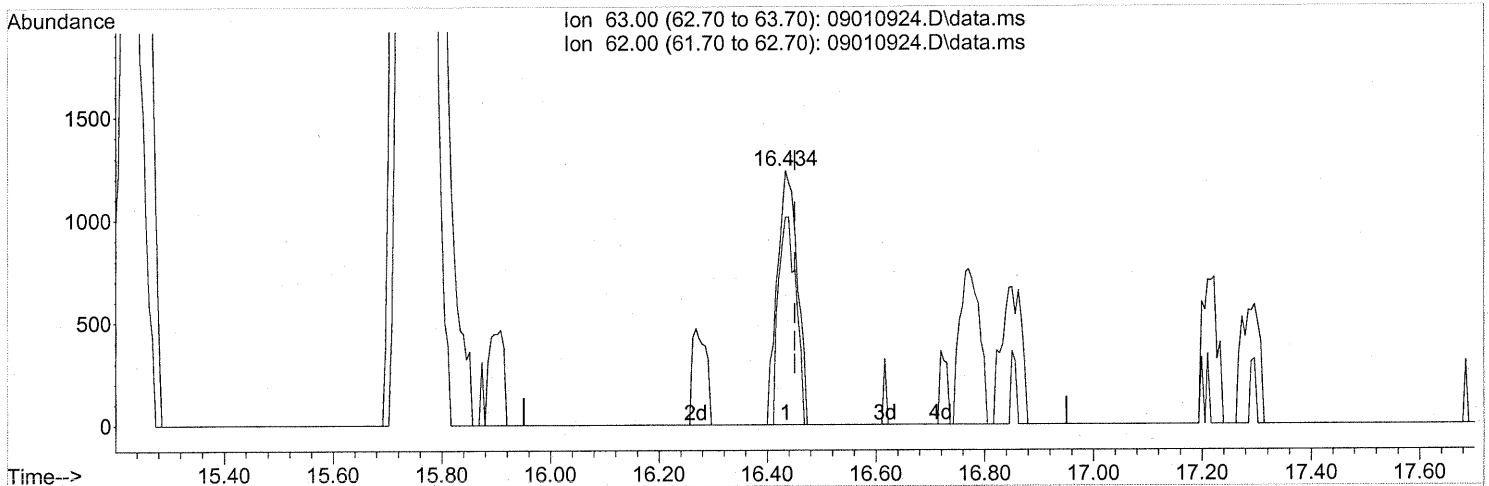
(43) Cyclohexane (T)
 15.657min (-0.017) 1.66ng
 response 61717

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	37.54
56.10	107.30	121.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.434min (-0.017) 0.14ng

response 3184

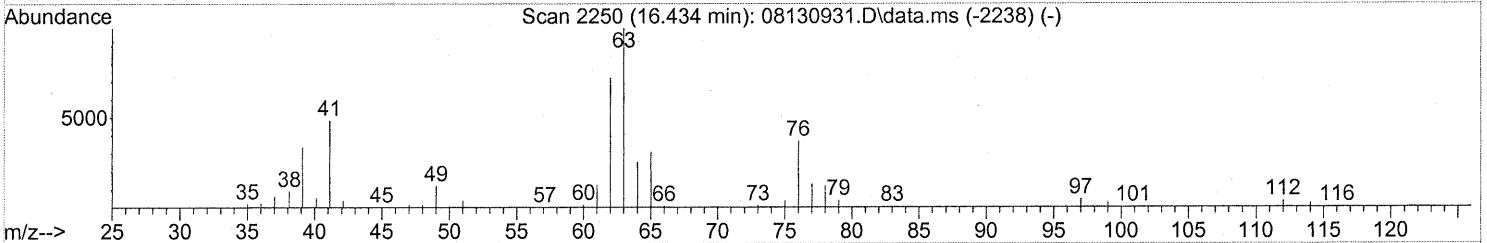
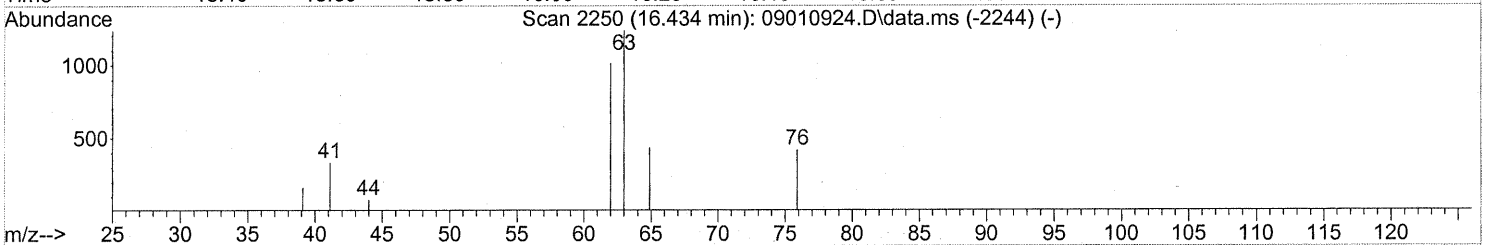
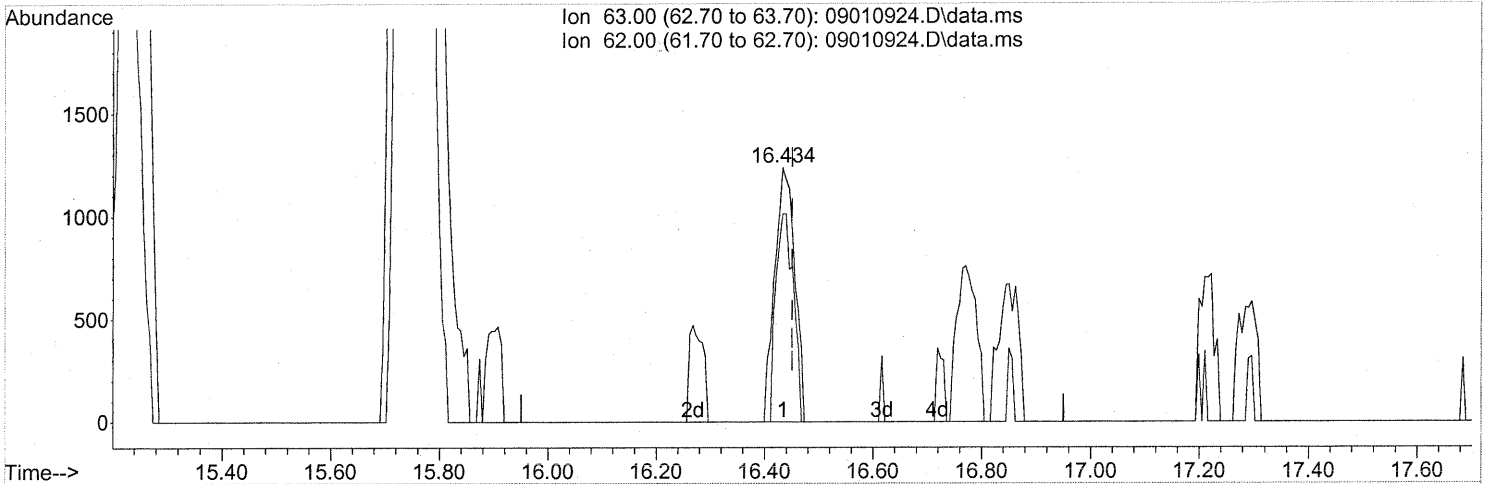
Ion	Exp%	Act%
63.00	100	100
62.00	71.00	70.73
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.434min (-0.017) 0.14ng

response 3184

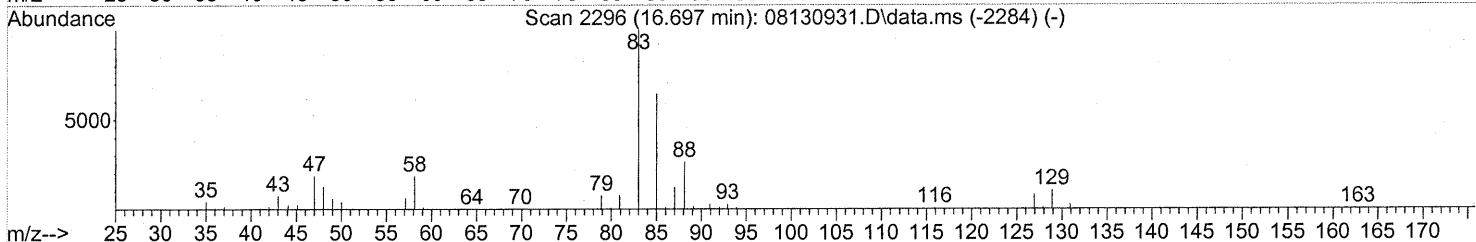
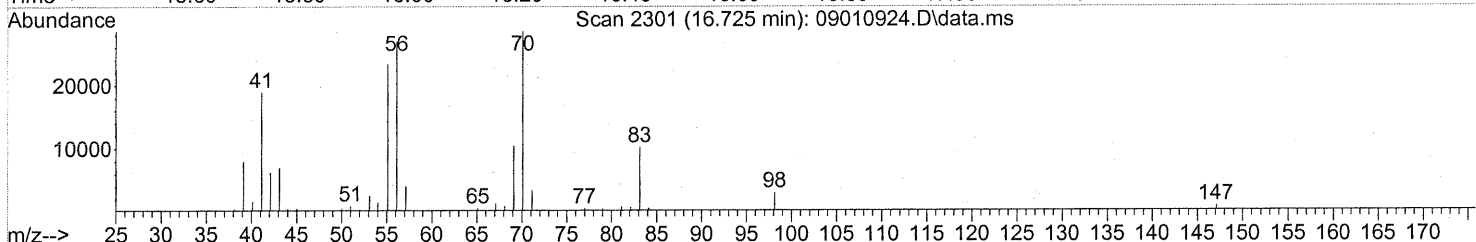
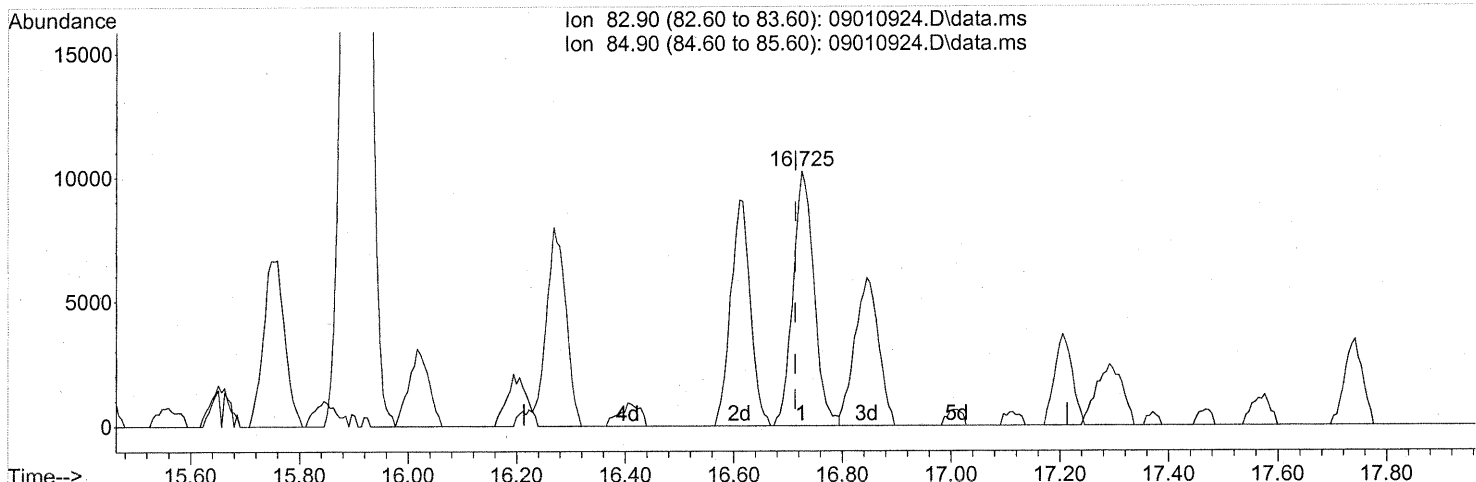
Ion	Exp%	Act%
63.00	100	100
62.00	71.00	70.73
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 Cam 9/8/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)

16.725min (+0.011) 0.98ng

response 27554

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

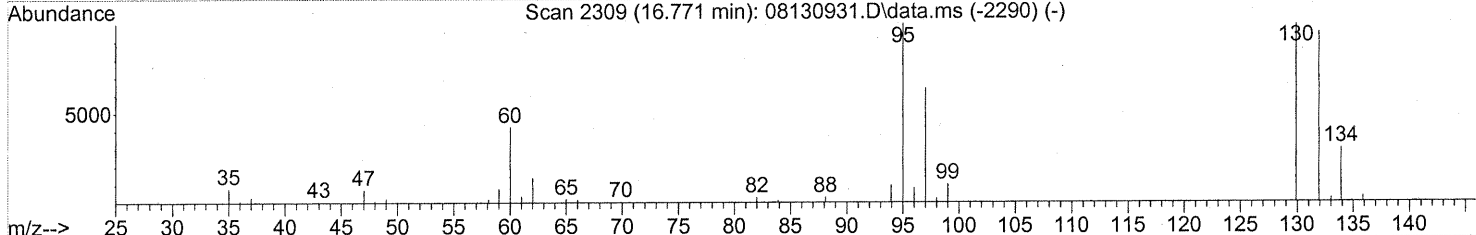
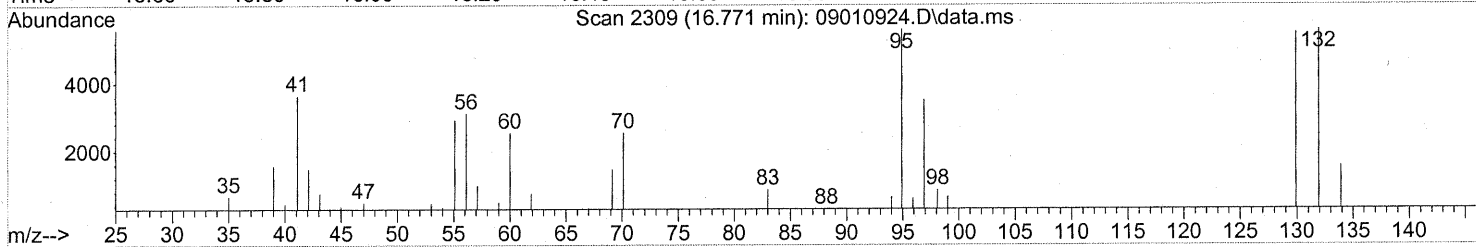
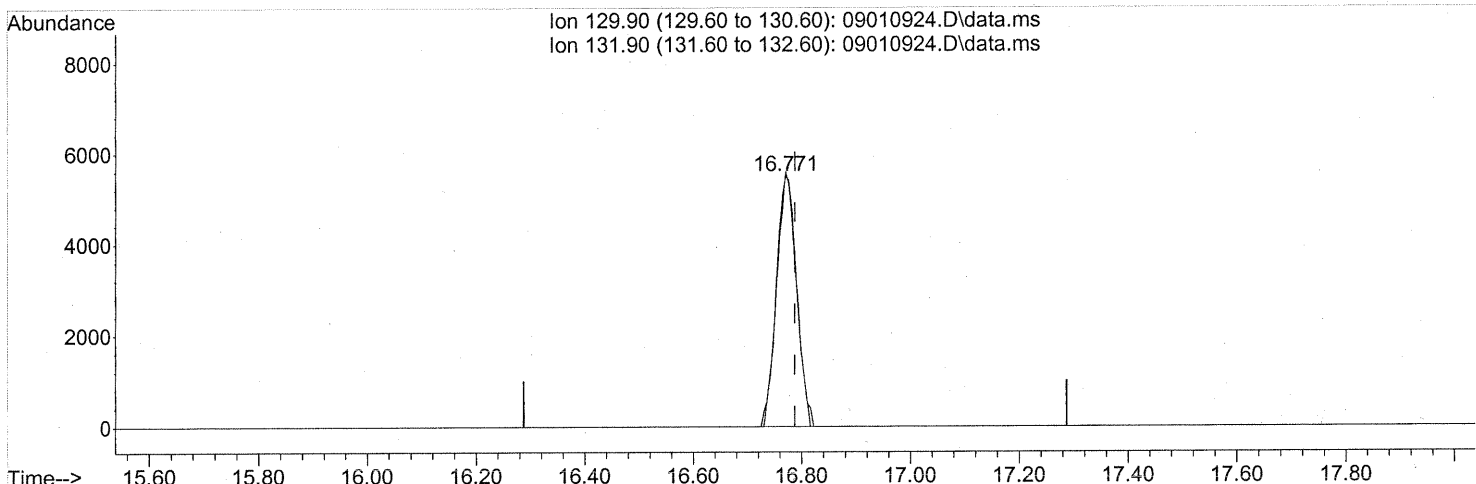
FP em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(47) Trichloroethene (T)

16.771min (-0.017) 0.58ng

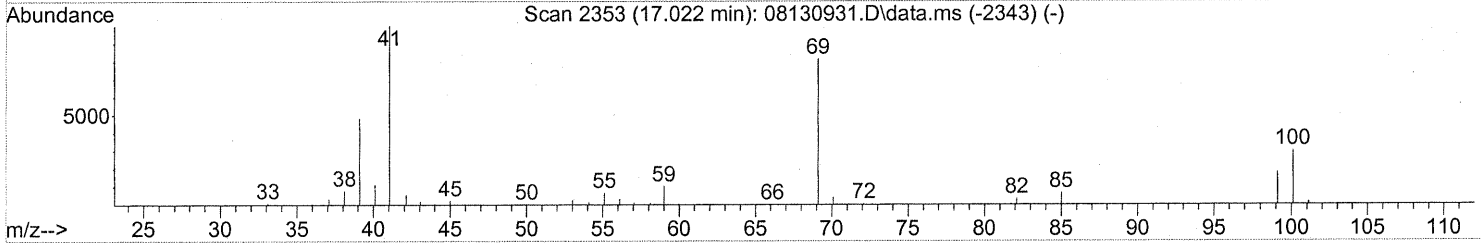
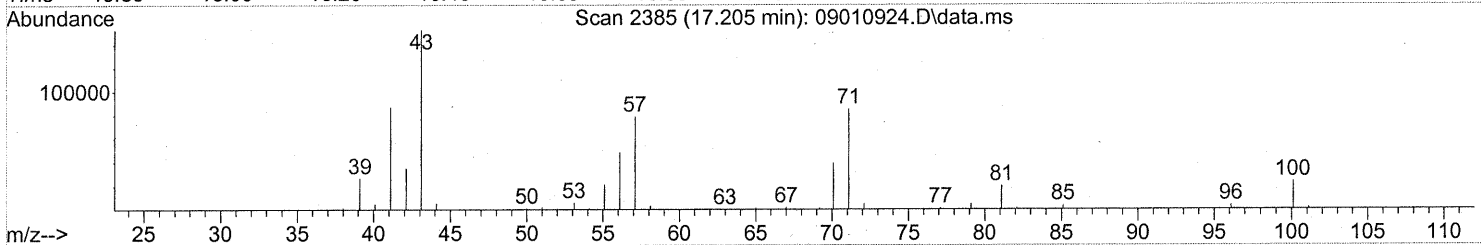
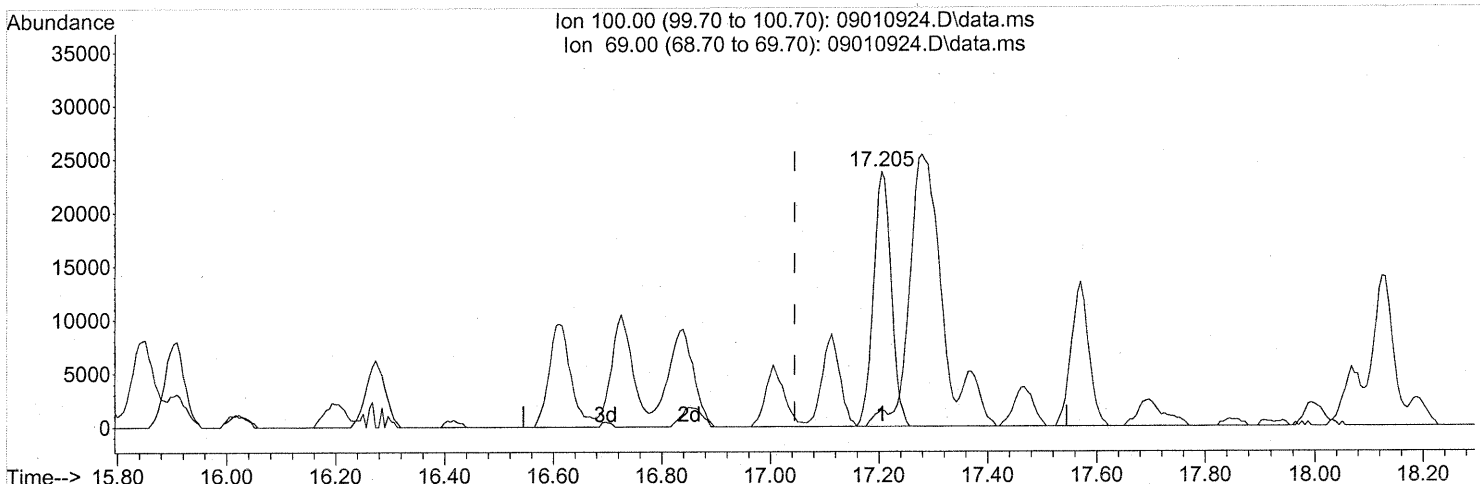
response 14202

Ion	Exp%	Act%
129.90	100	100
131.90	95.60	98.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 02 07:51:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

17.205min (+0.160) 5.63ng

response 53988

Ion	Exp%	Act%
100.00	100	100
69.00	261.10	5.63#
0.00	0.00	0.00
0.00	0.00	0.00

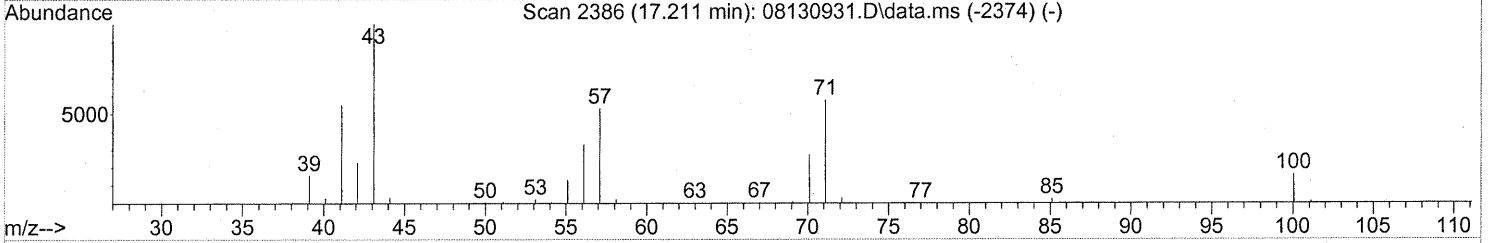
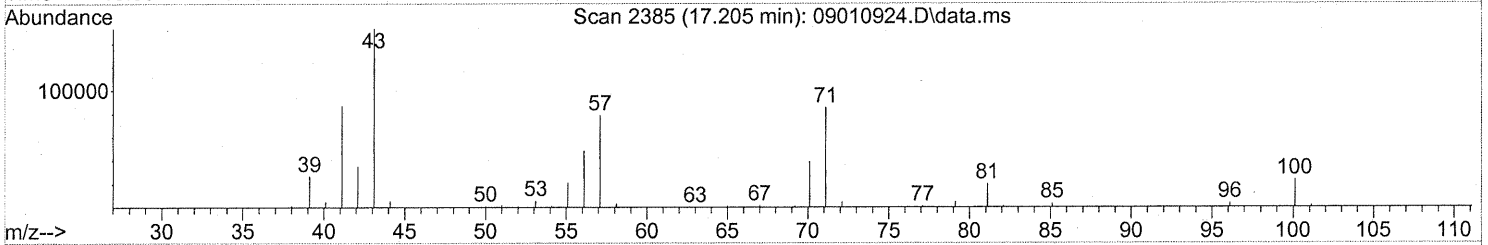
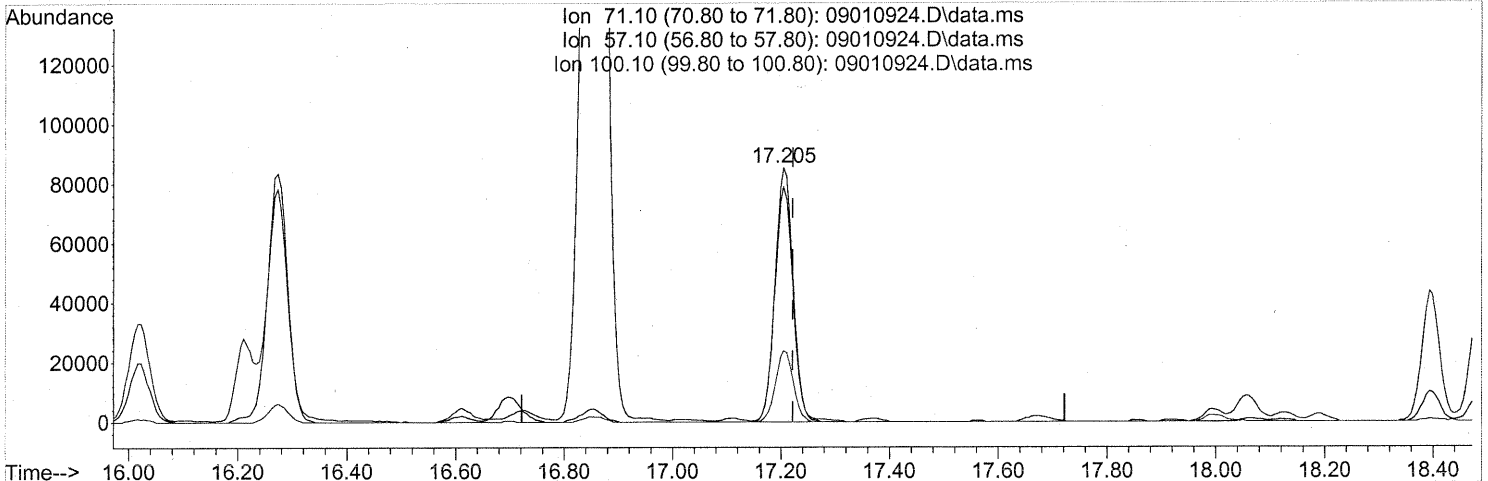
FP em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

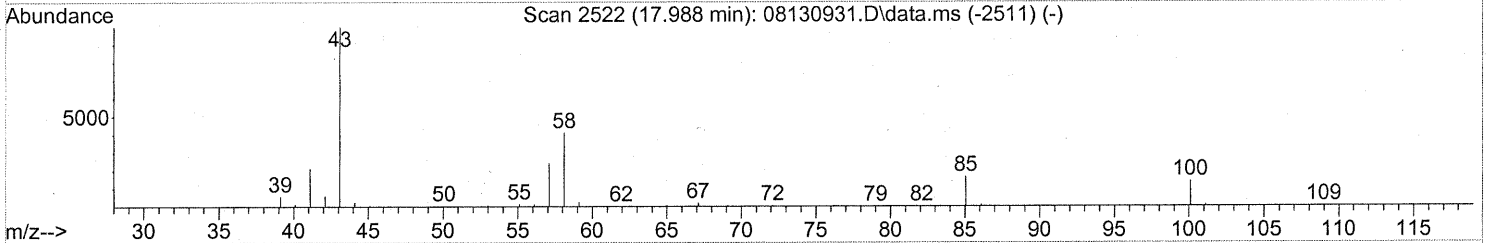
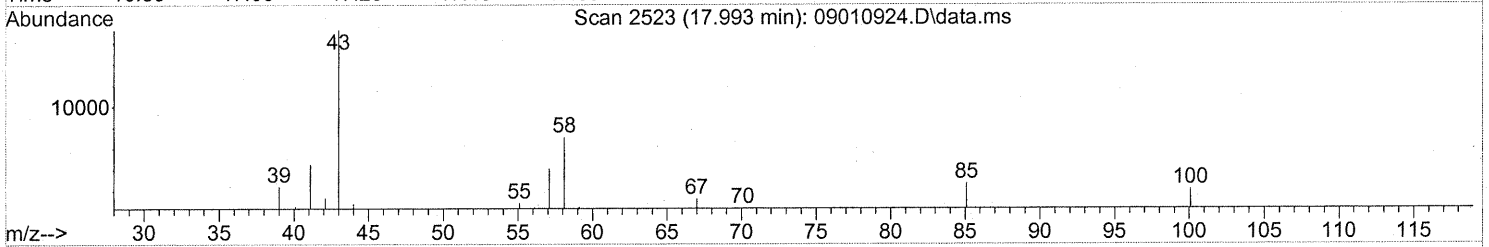
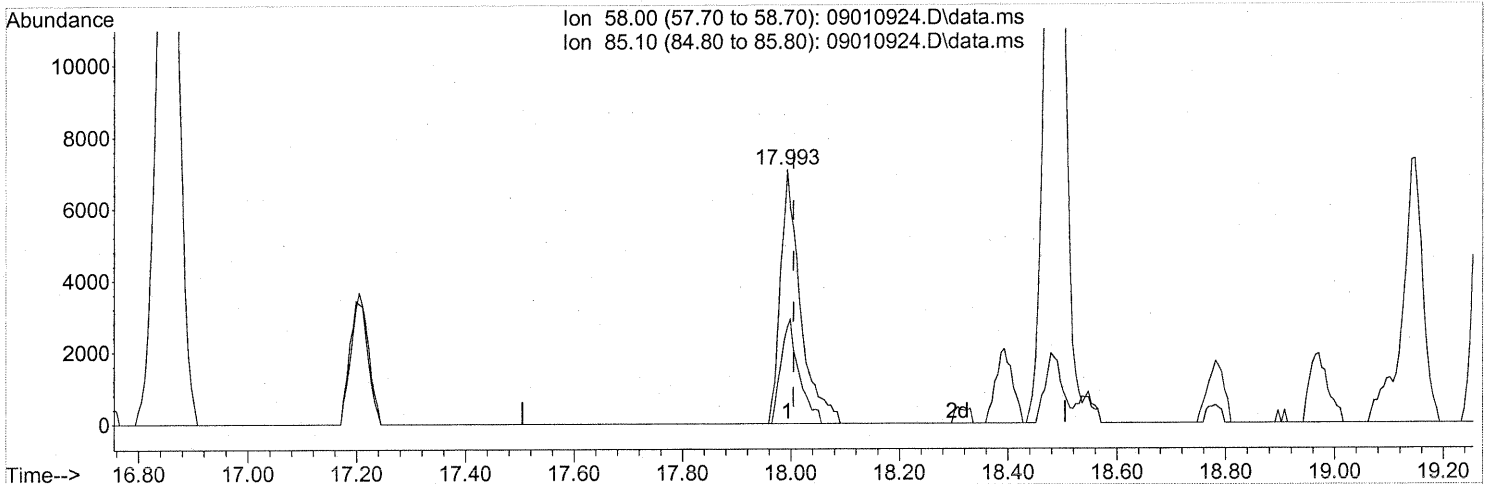
(51) n-Heptane (T)
 17.205min (-0.017) 7.69ng
 response 196406

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	94.26
100.10	30.70	27.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

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

17.993min (-0.012) 0.87ng

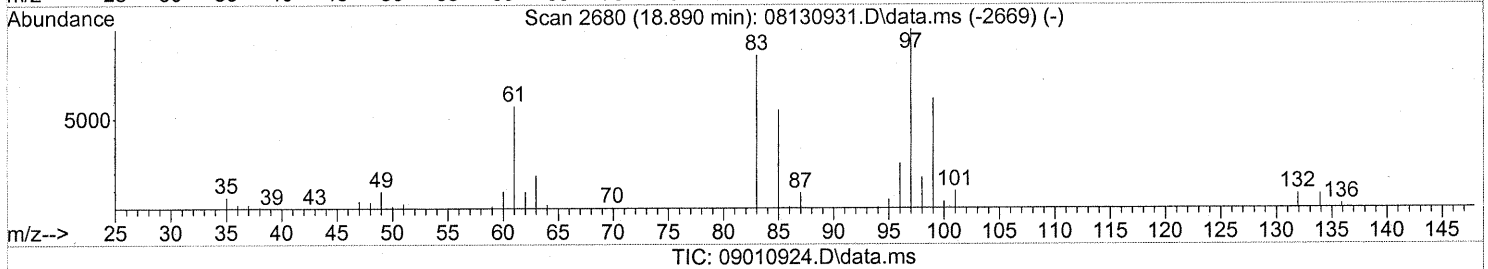
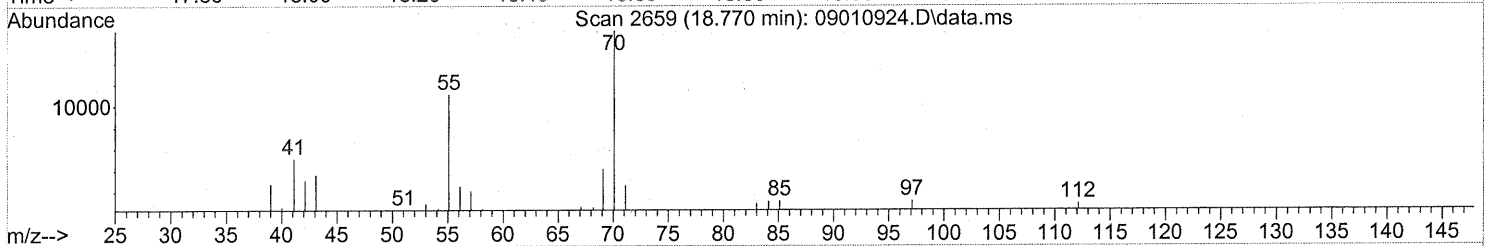
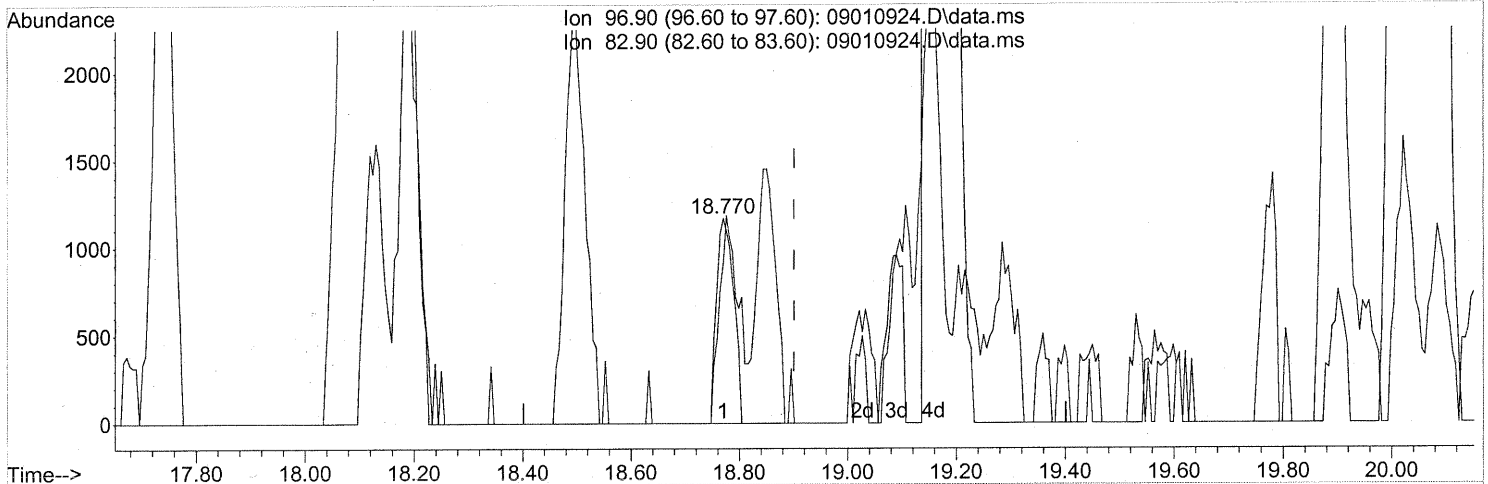
response 17986

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	37.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)

18.770min (-0.131) 0.13ng

response 2565

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	112.83#
0.00	0.00	0.00
0.00	0.00	0.00

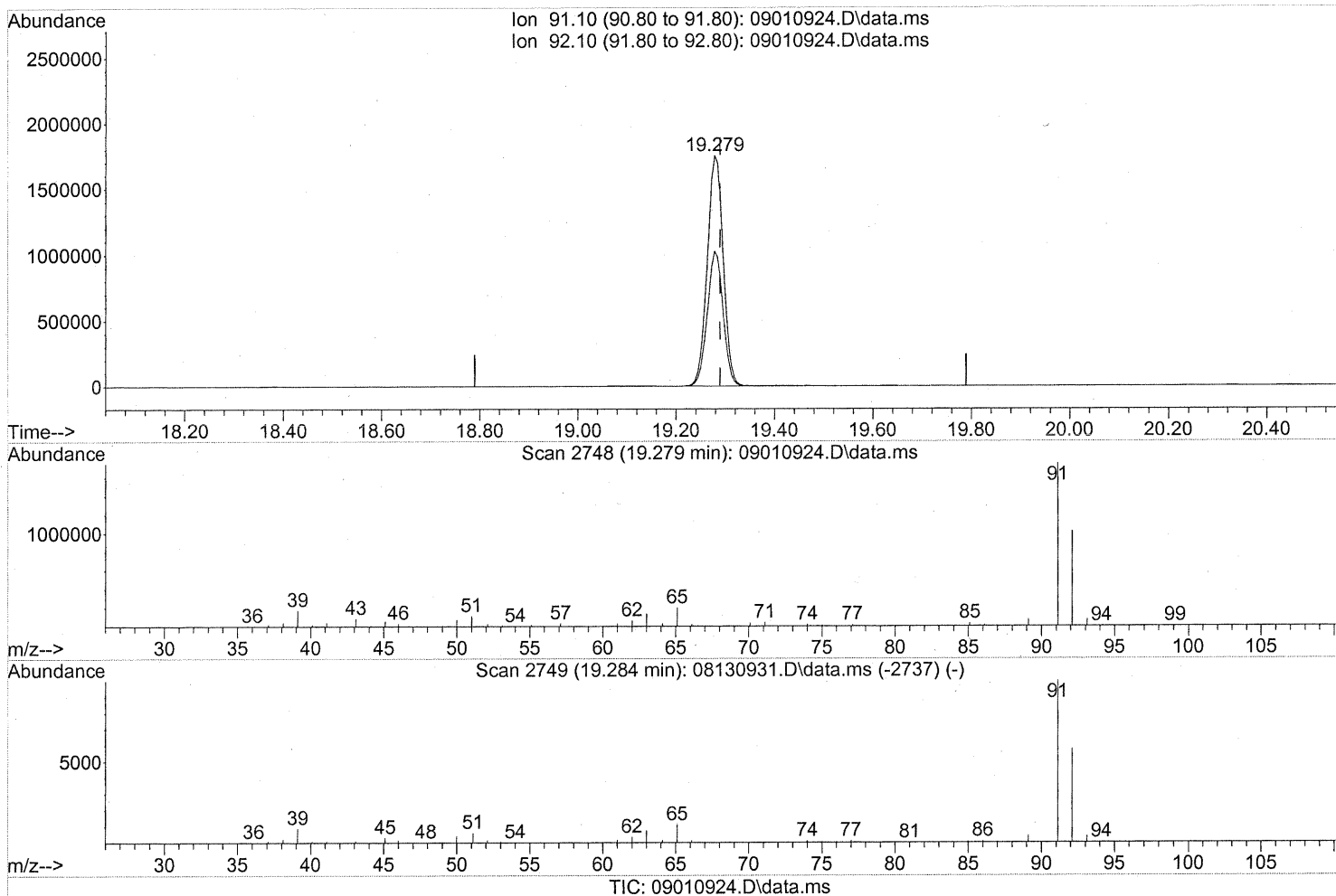
FP em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



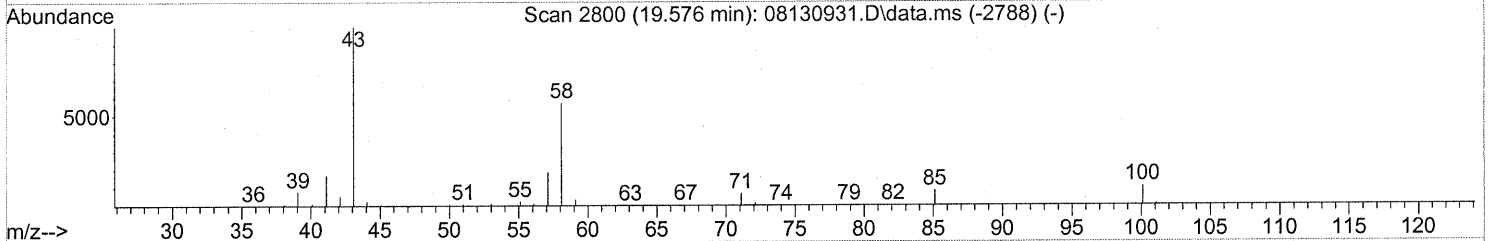
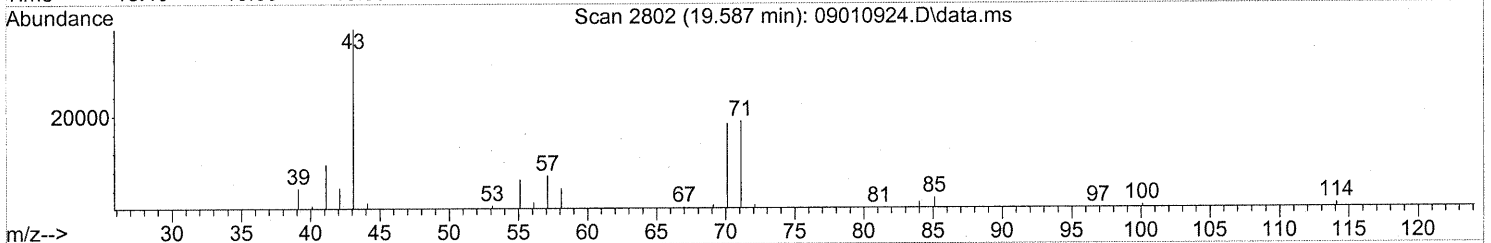
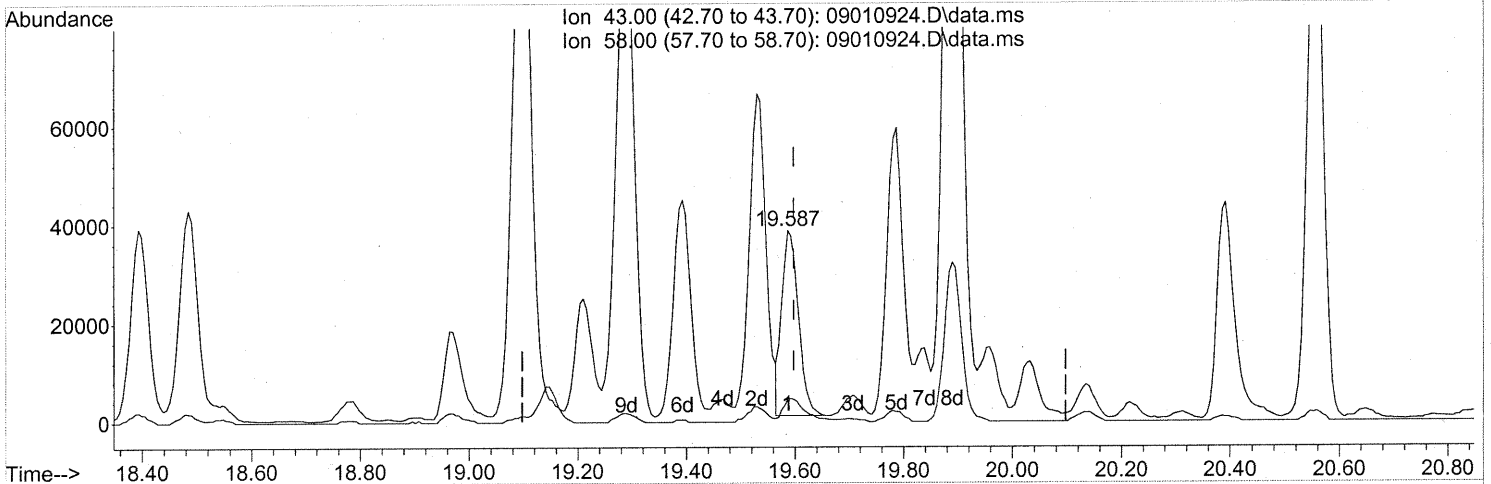
(58) Toluene (T)
 19.279min (-0.011) 39.31ng
 response 3943602

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(59) 2-Hexanone (T)
 19.587min (-0.011) 1.54ng

response 80232

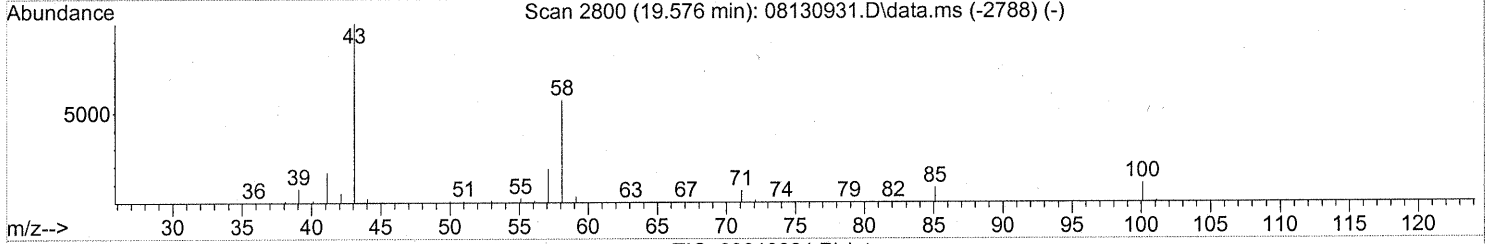
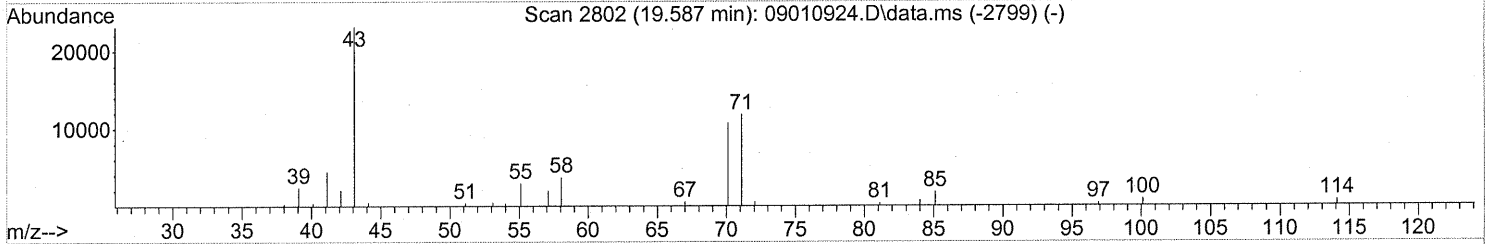
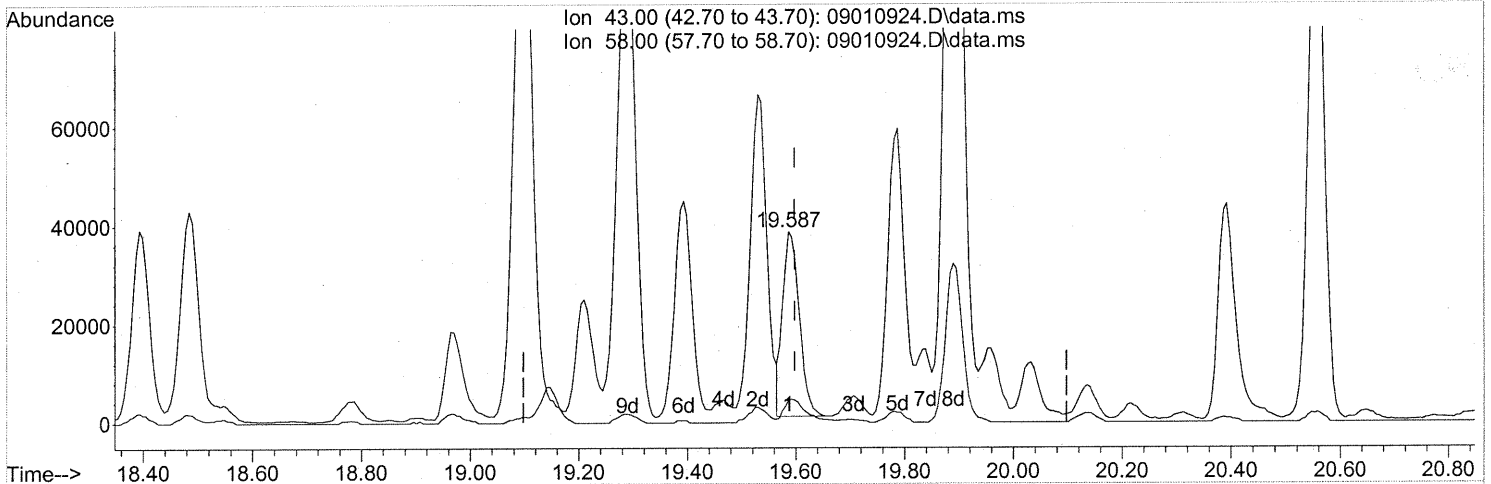
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	16.85#
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(59) 2-Hexanone (T)
 19.587min (-0.011) 1.54ng

response 80232

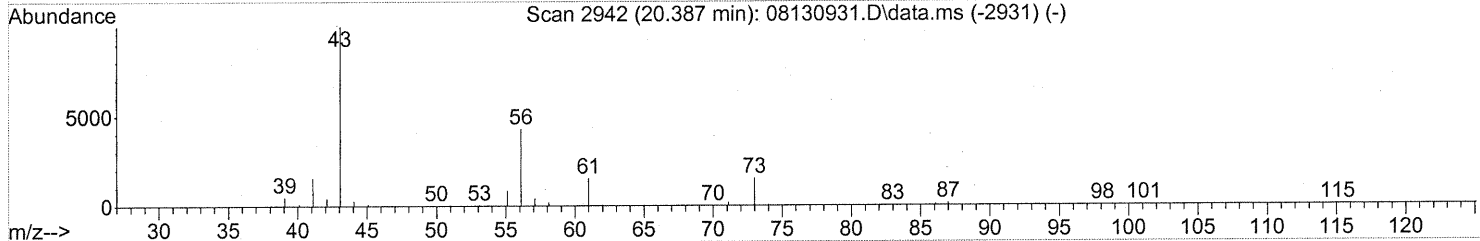
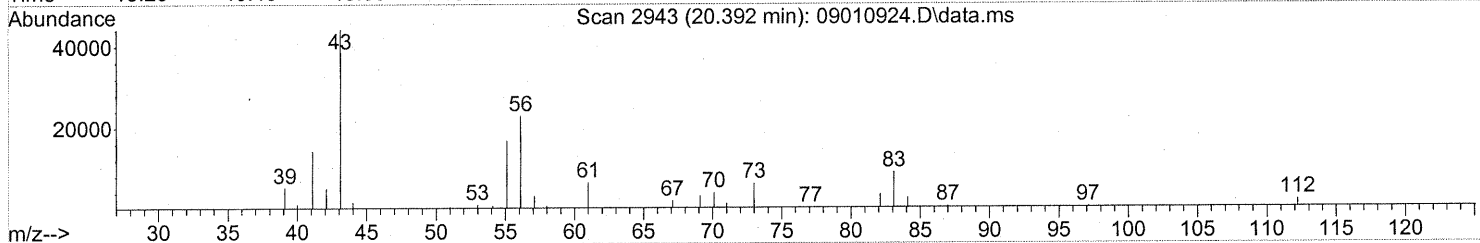
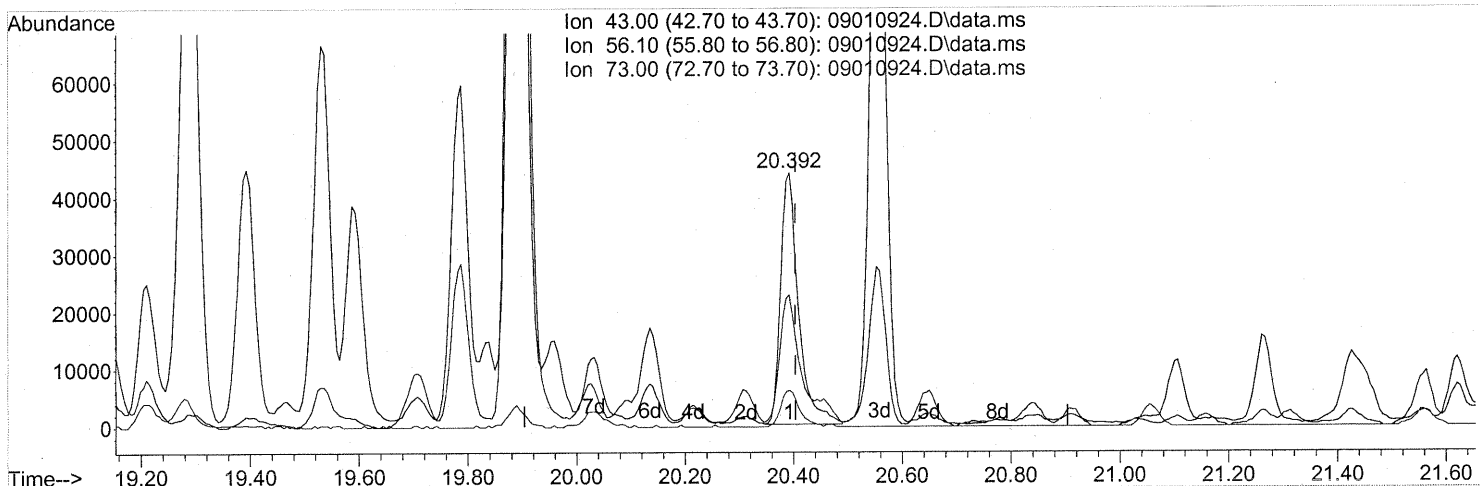
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	16.85#
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

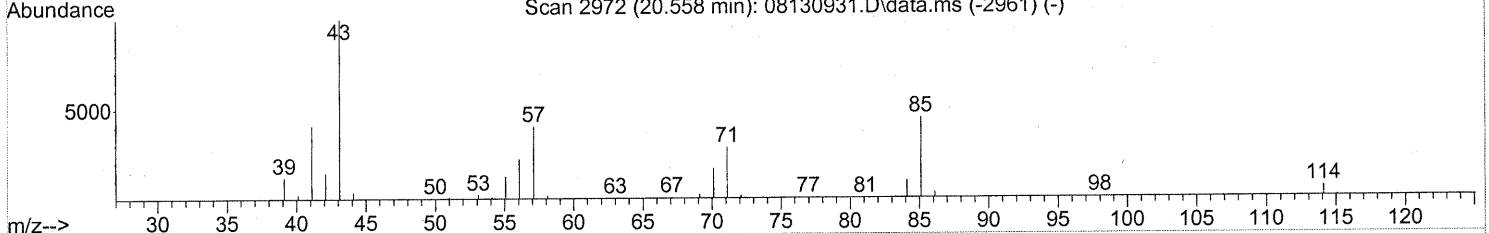
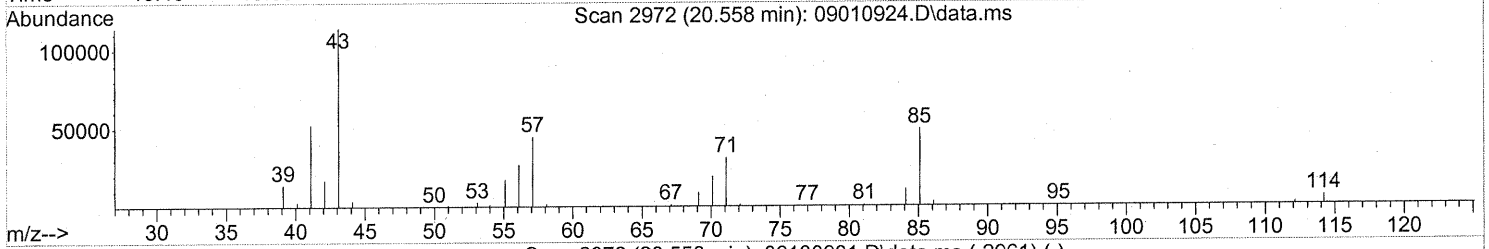
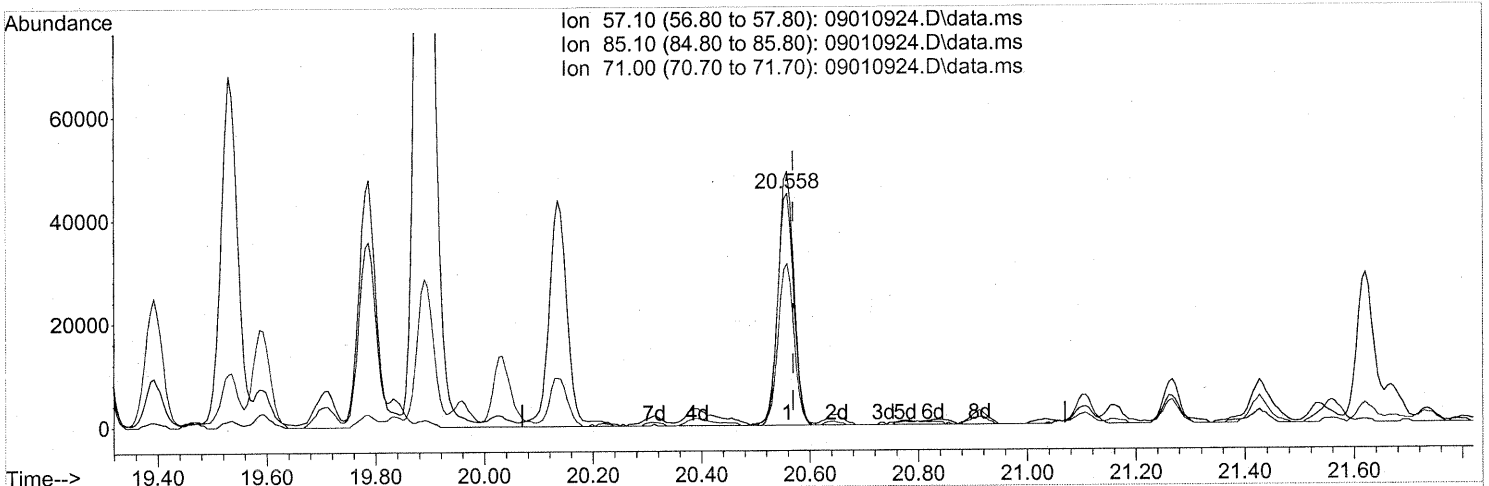
(62) n-Butyl Acetate (T)
 20.392min (-0.012) 1.77ng
 response 100875

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	60.96
73.00	16.90	14.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

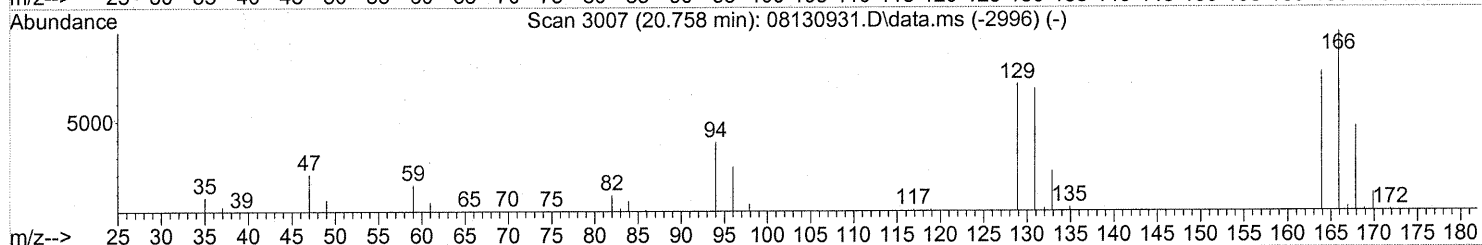
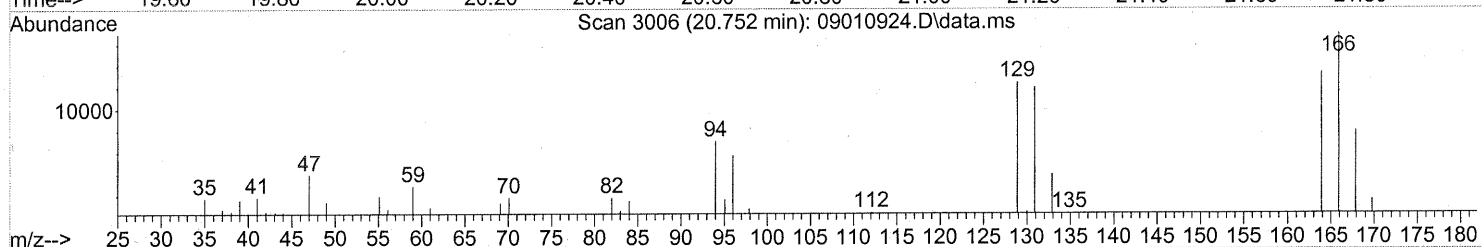
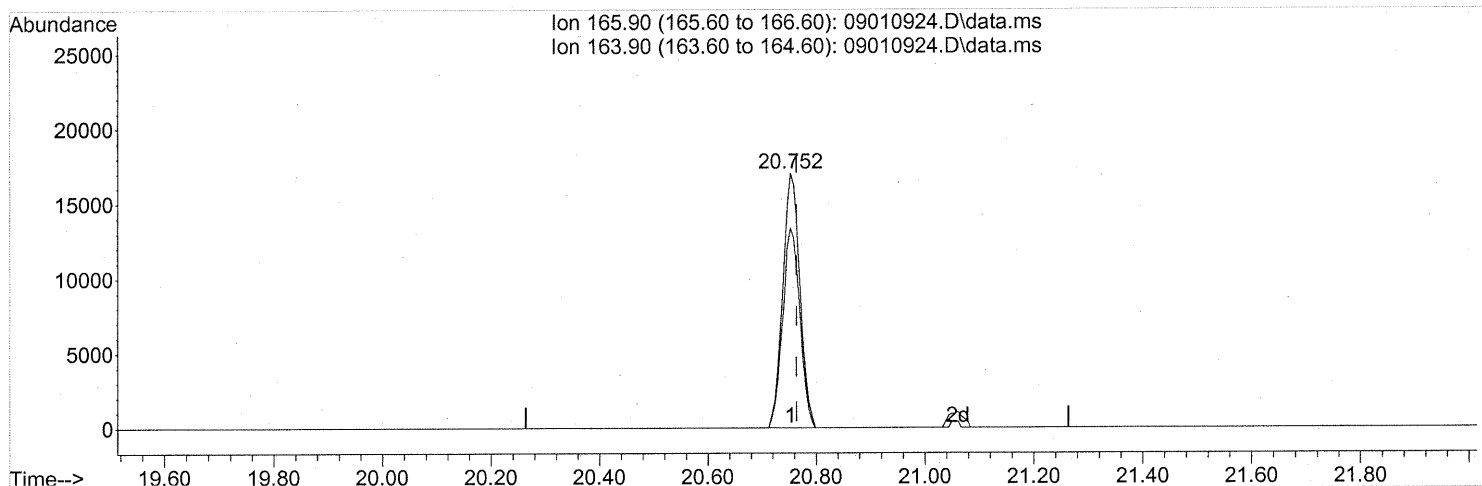
(63) n-Octane (T)
 20.558min (-0.011) 4.16ng
 response 92966

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	106.19
71.00	75.10	69.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(64) Tetrachloroethene (T)

20.752min (-0.011) 1.50ng

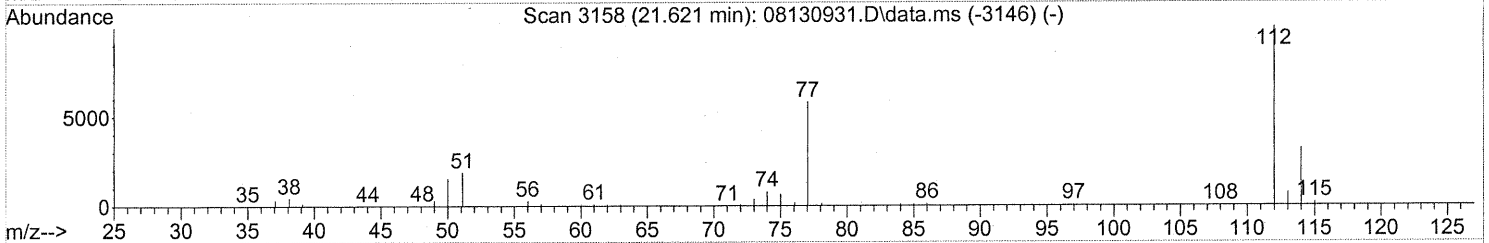
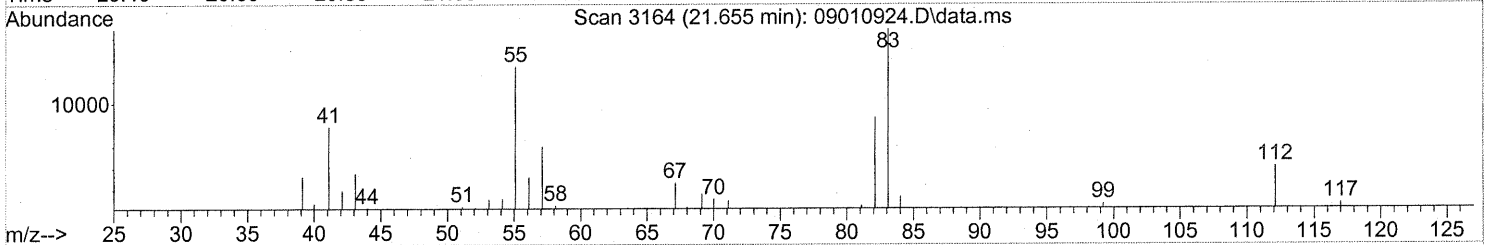
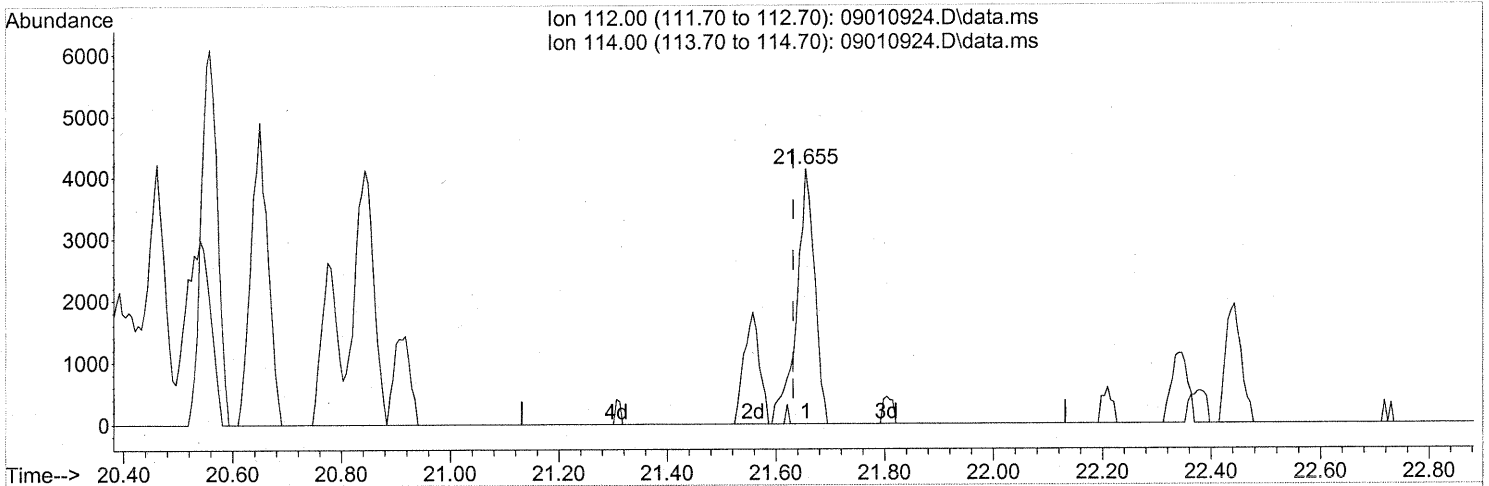
response 37300

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	78.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.655min (+0.023) 0.15ng
 response 9467

Ion	Exp%	Act%
112.00	100	100
114.00	32.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

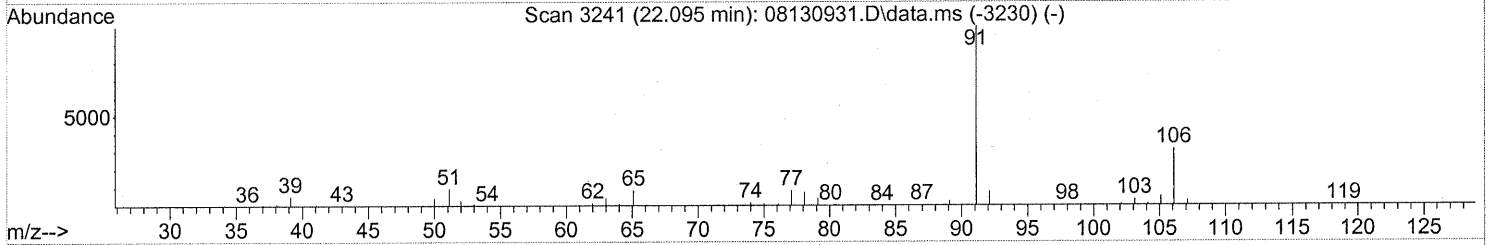
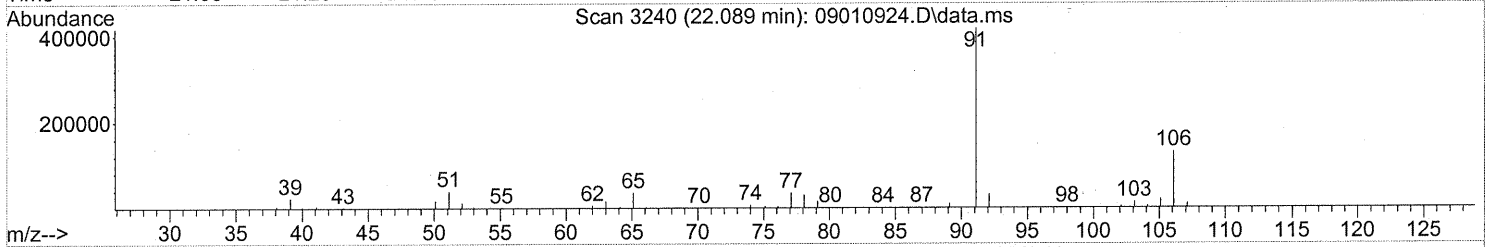
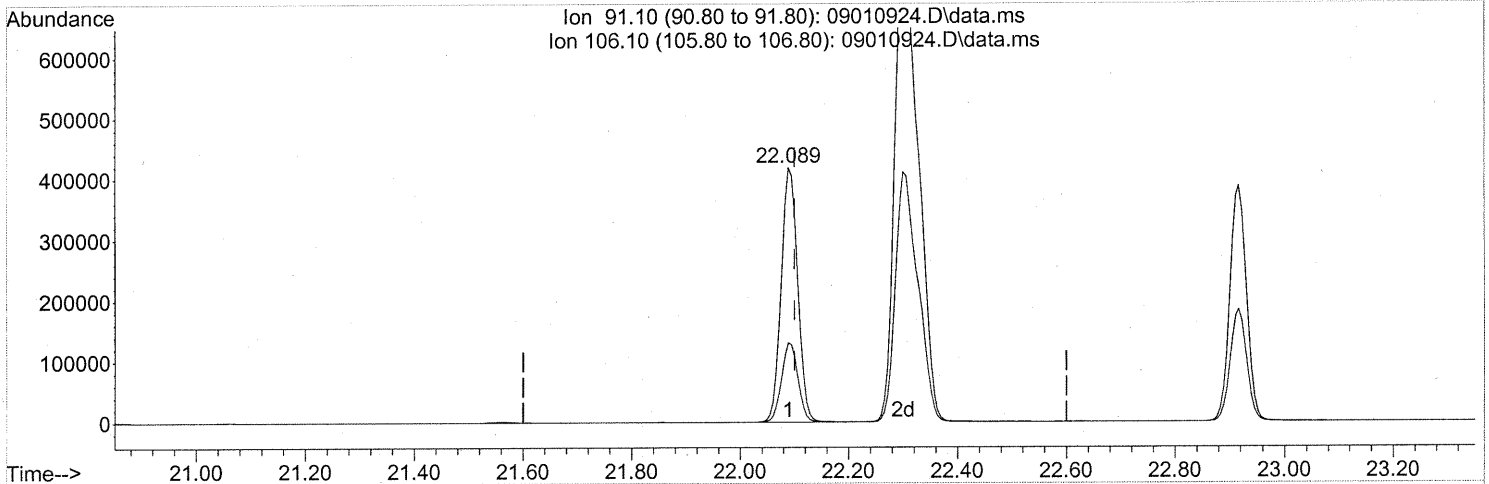
FP em 9/8/09

keg/ky

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(66) Ethylbenzene (T)

22.089min (-0.011) 8.15ng

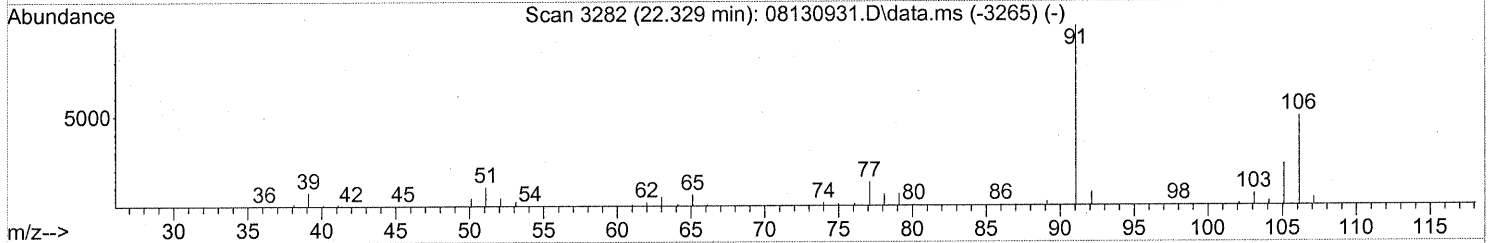
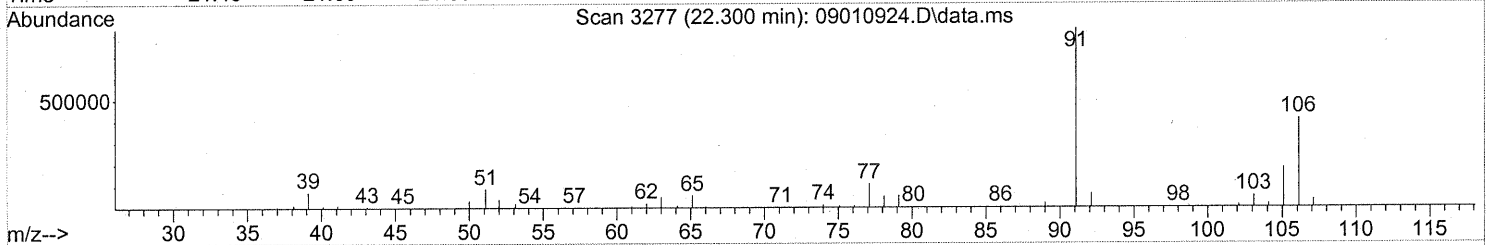
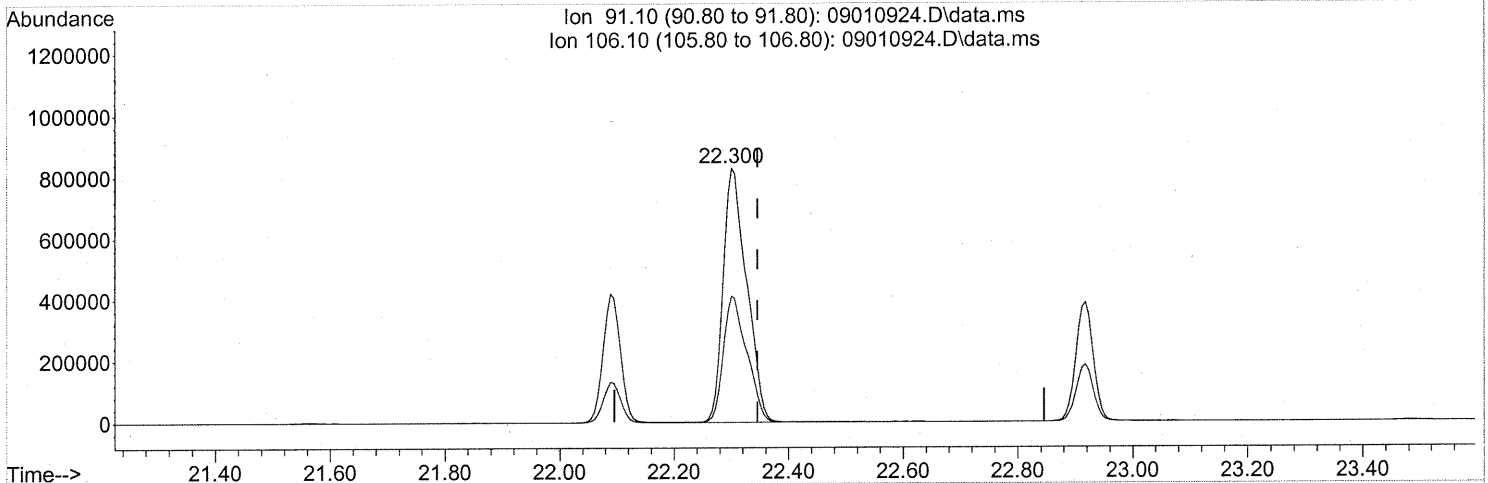
response 882239

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	31.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

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

22.300min (-0.046) 27.54ng

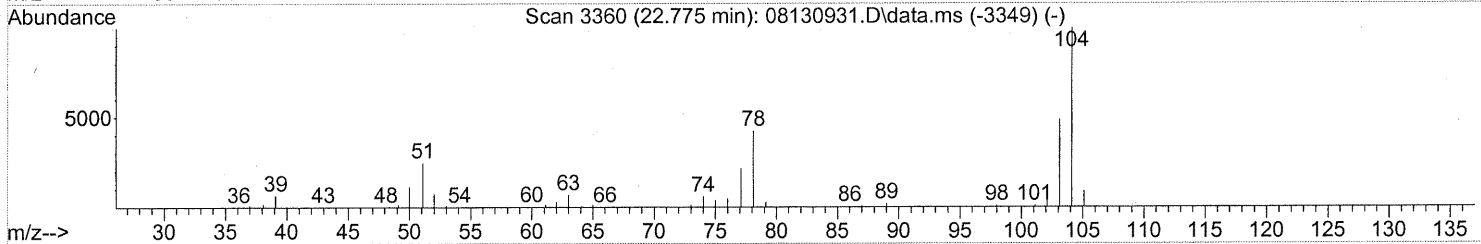
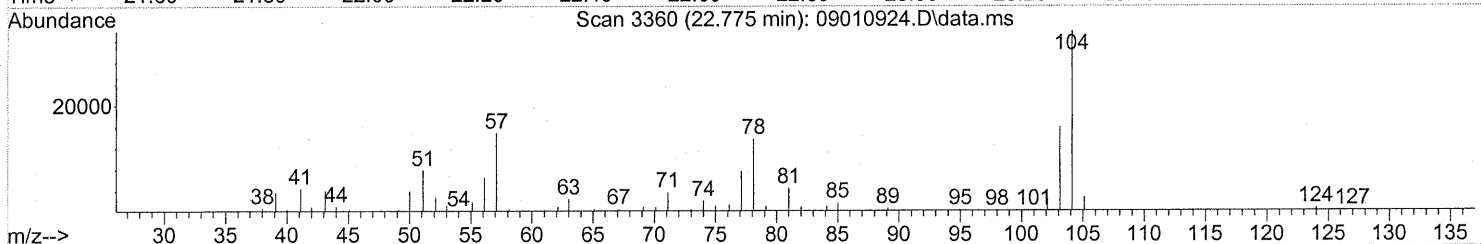
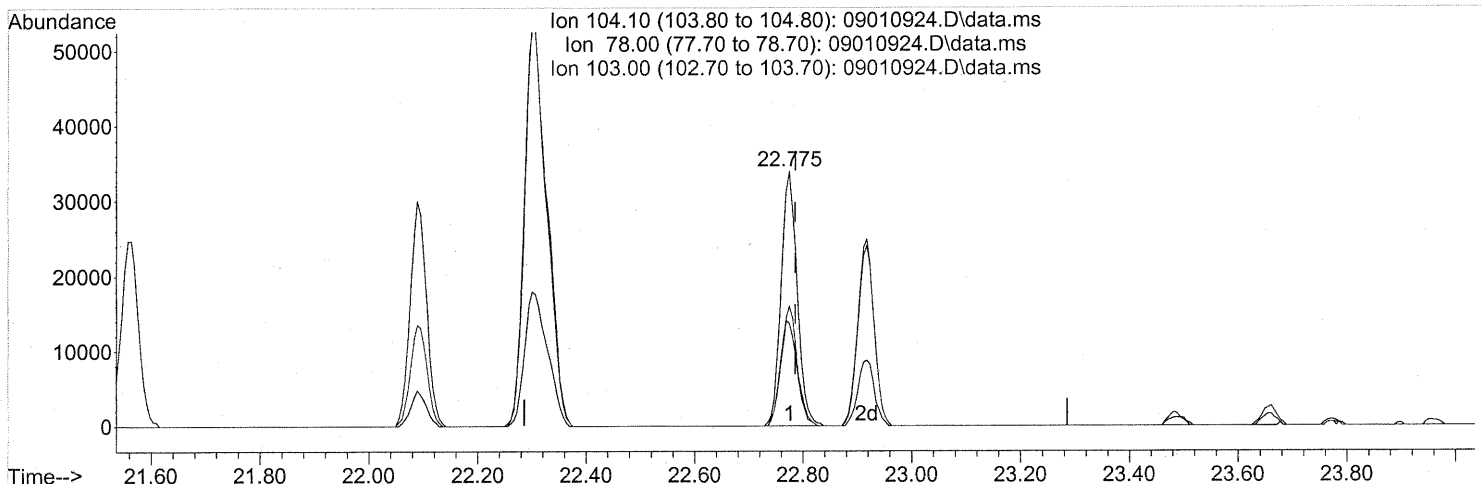
response 2364952

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

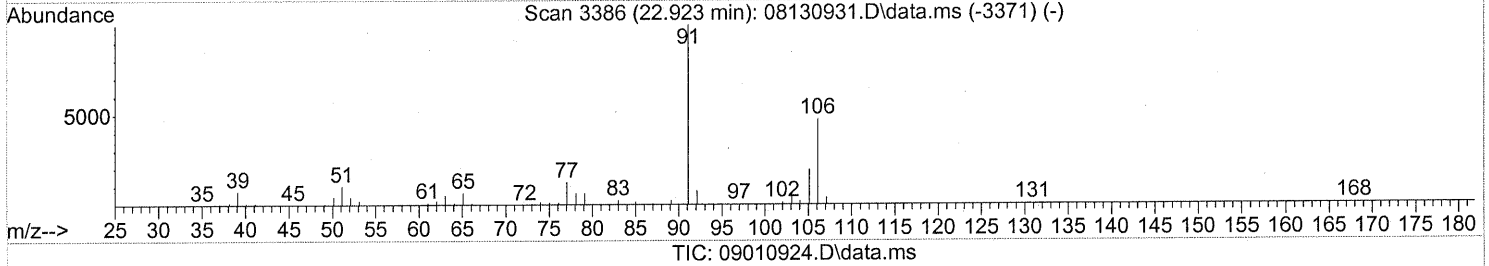
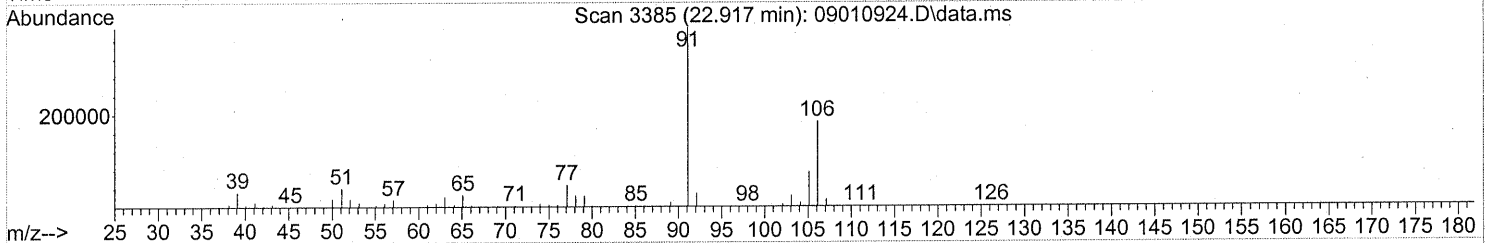
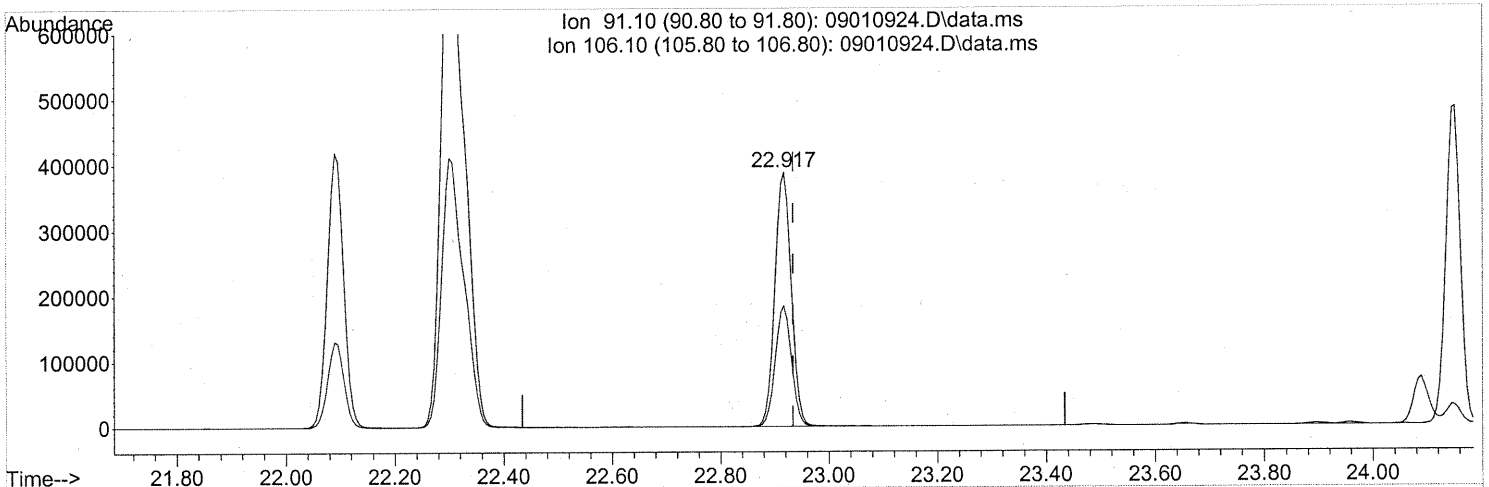
(69) Styrene (T)
 22.775min (-0.011) 1.11ng
 response 70255

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	42.73
103.00	48.70	48.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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) 9.42ng

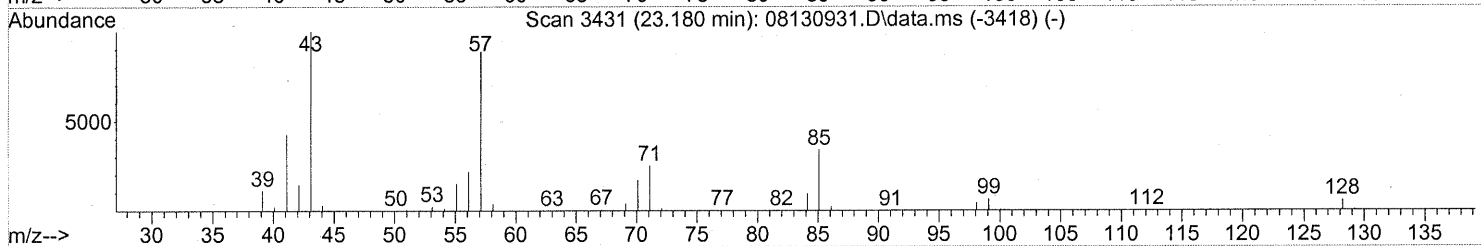
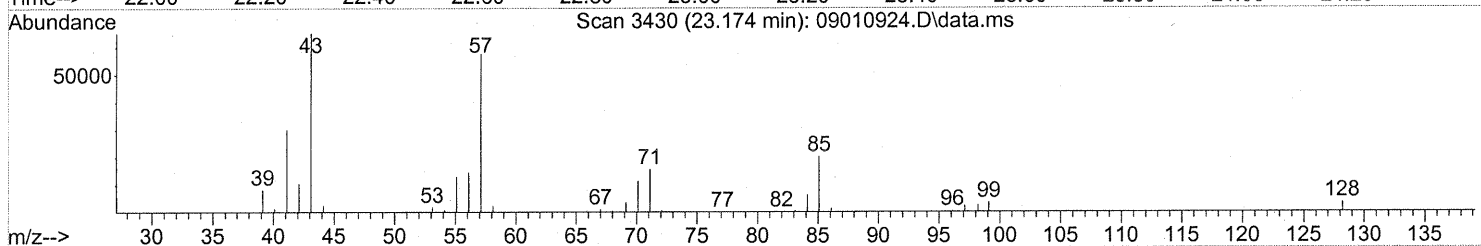
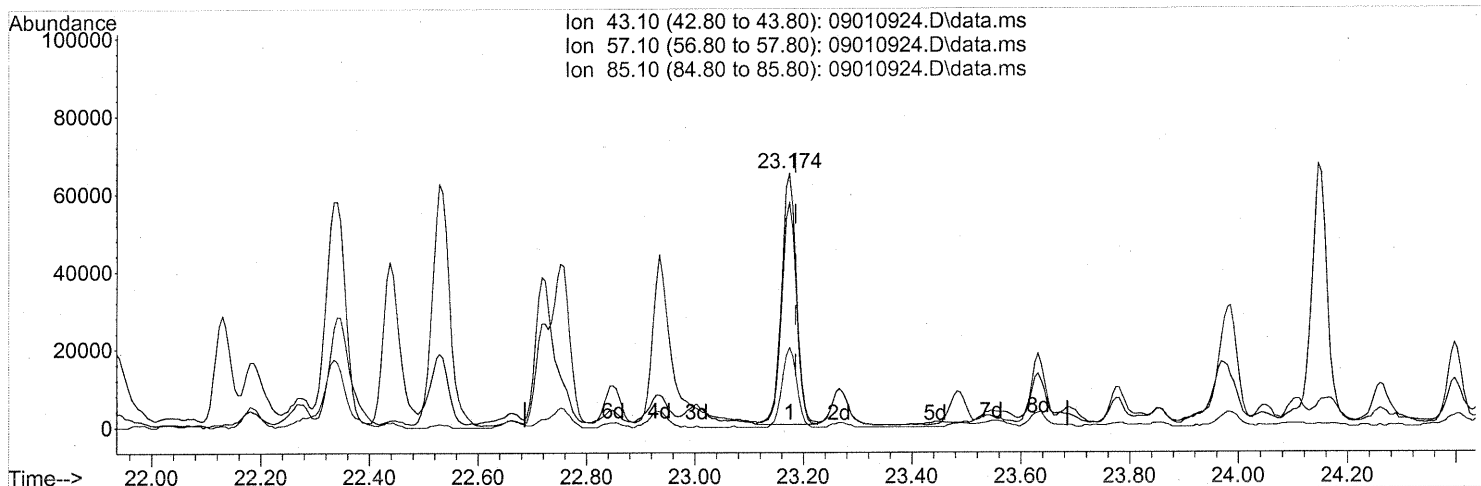
response 813957

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

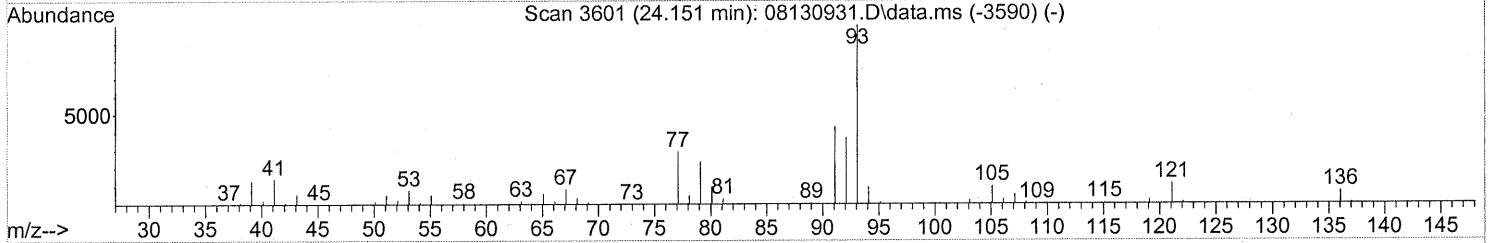
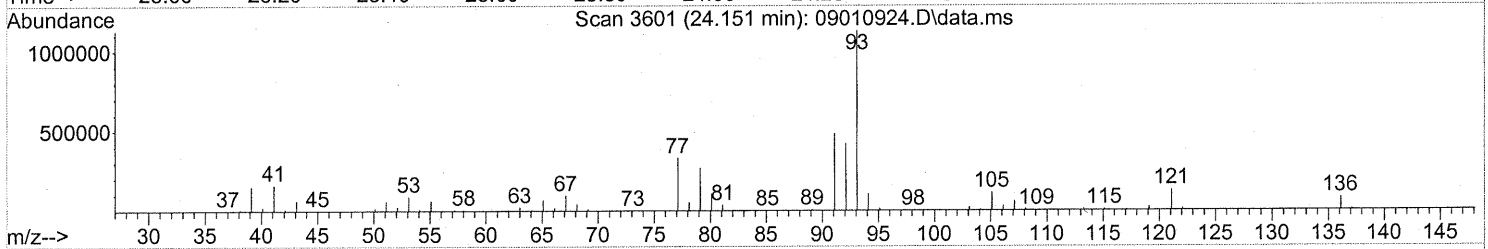
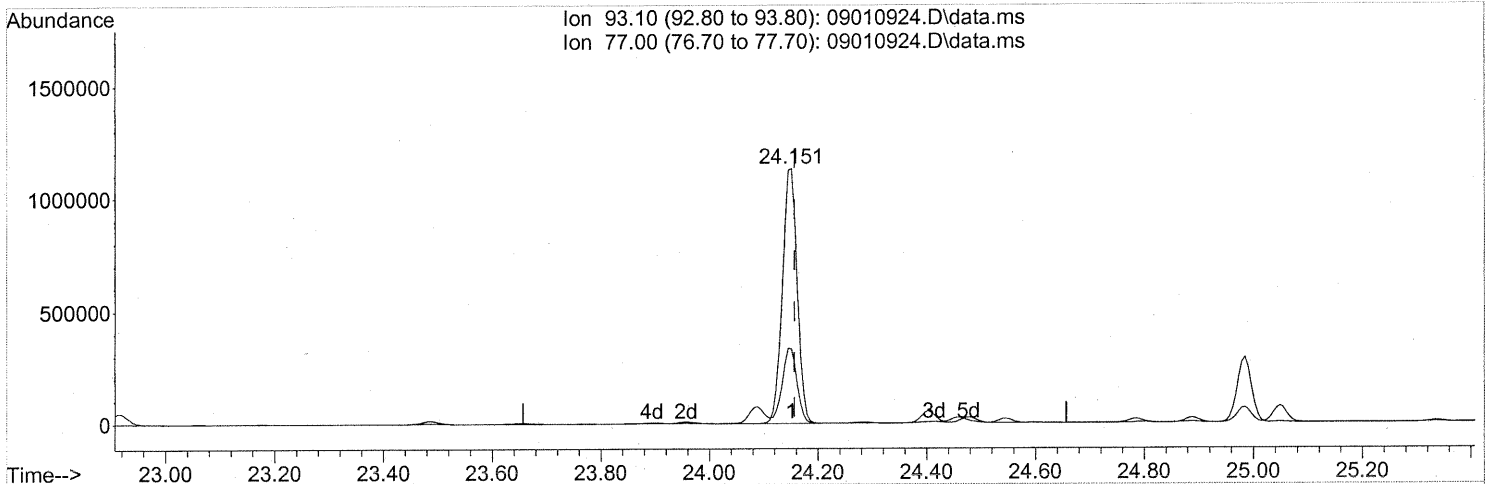
(71) n-Nonane (T)
 23.174min (-0.011) 2.39ng
 response 124312

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	86.00
85.10	38.80	30.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

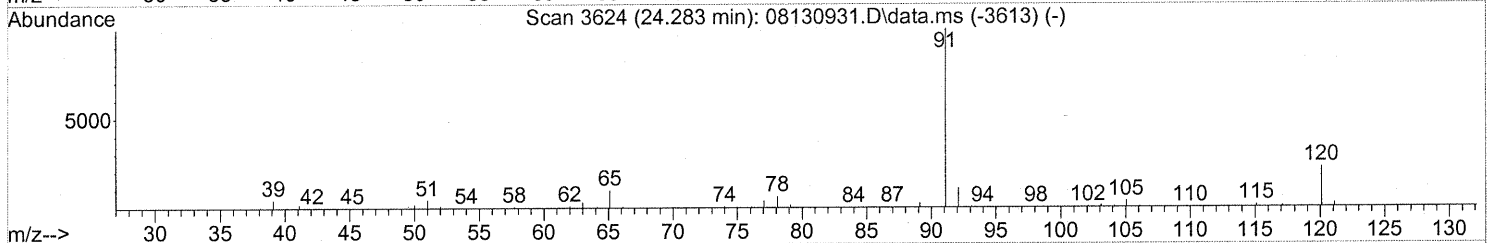
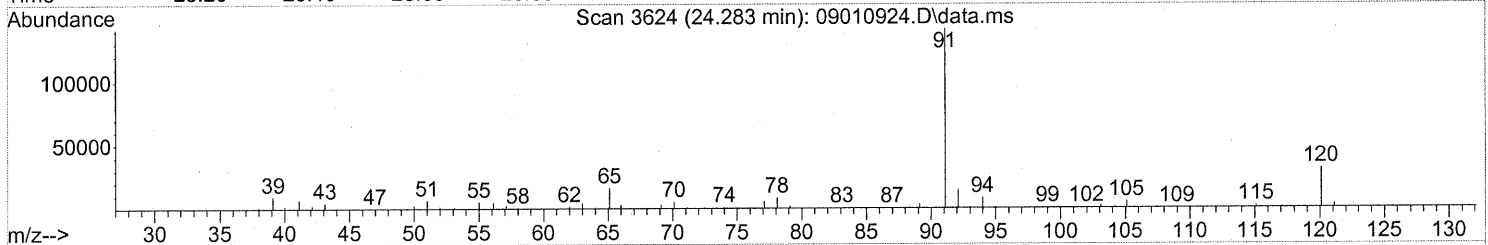
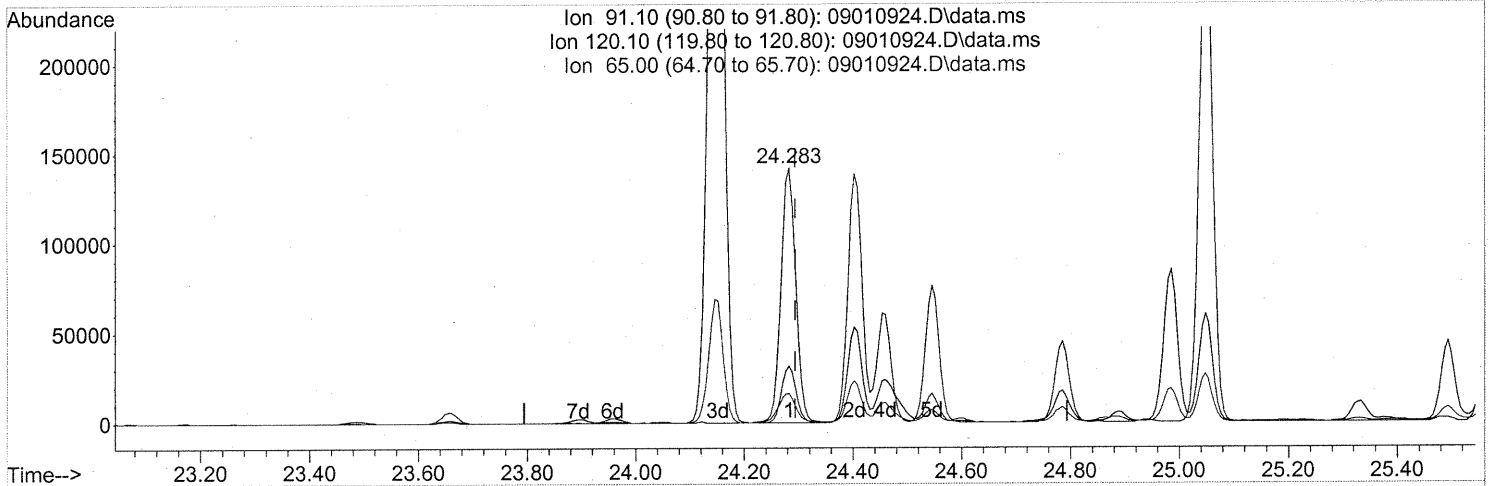
(75) alpha-Pinene (T)
 24.151min (-0.006) 38.54ng
 response 2129419

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

(76) n-Propylbenzene (T)

24.283min (-0.011) 1.92ng

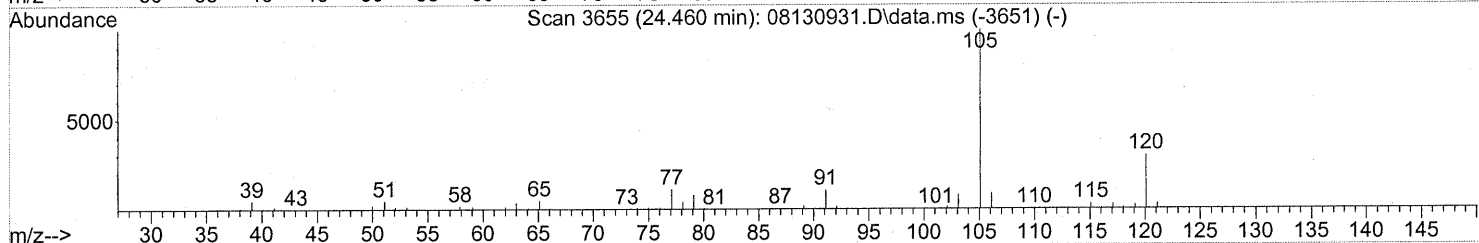
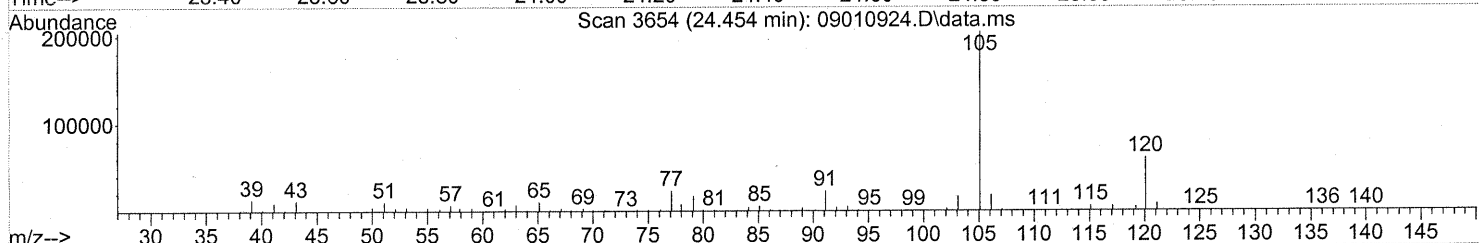
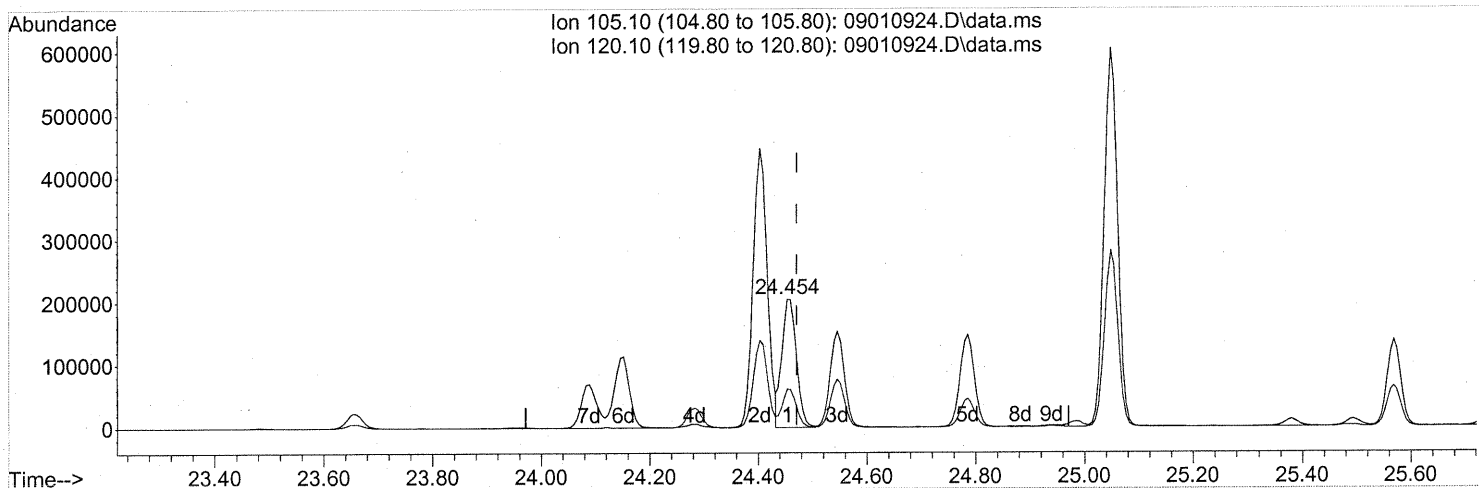
response 266157

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	21.81
65.00	10.20	14.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



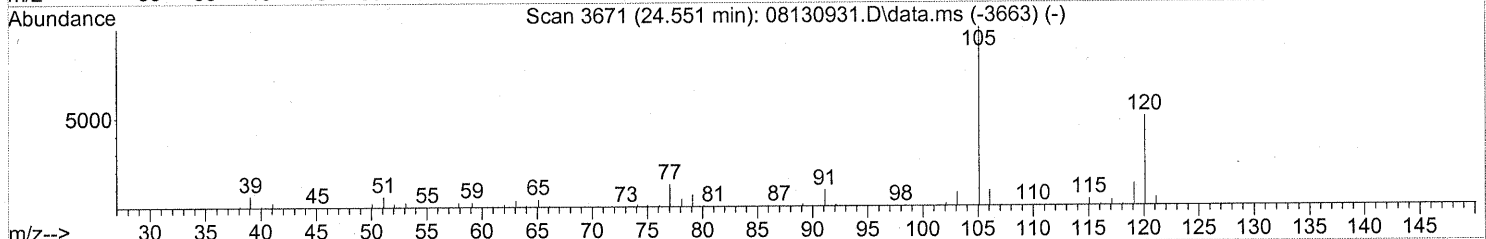
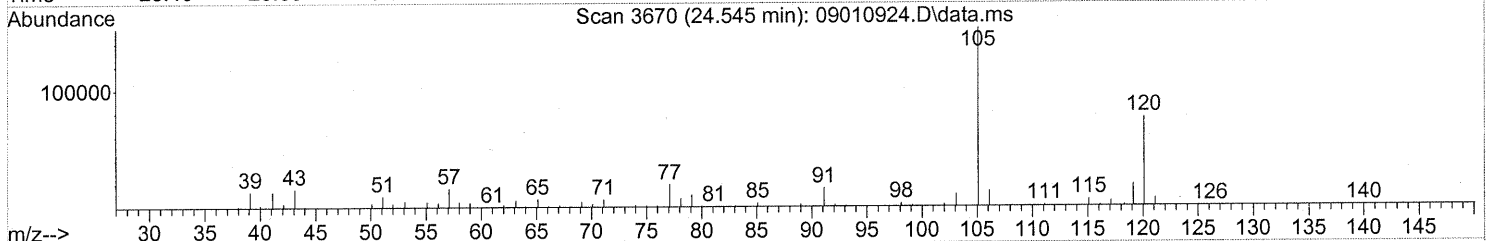
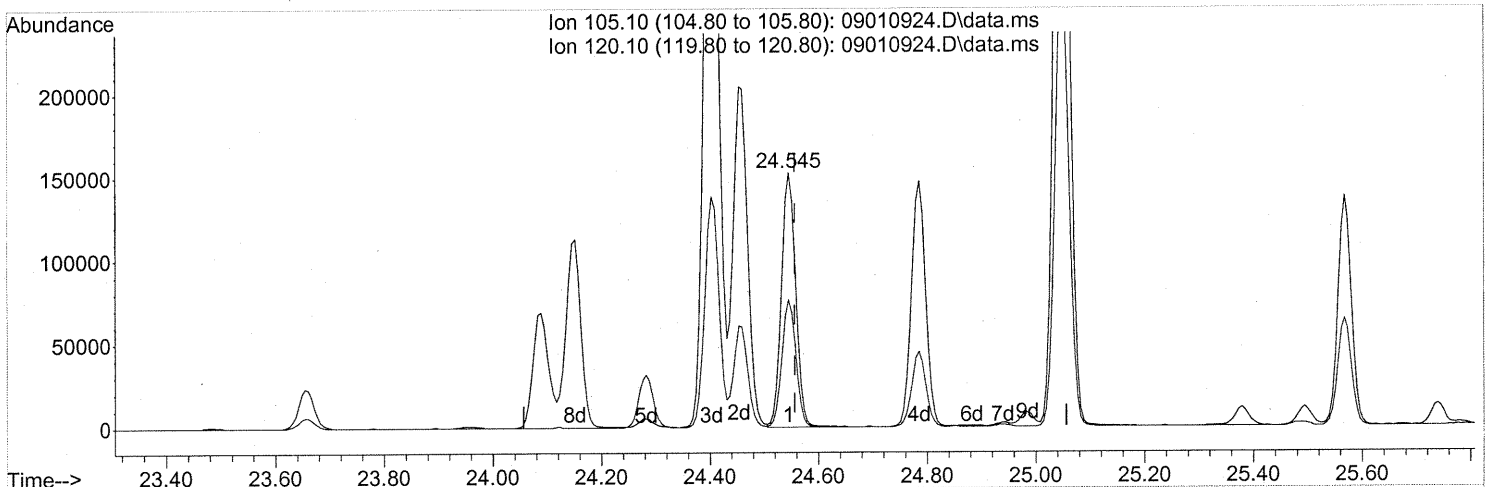
(78) 4-Ethyltoluene (T)
 24.454min (-0.017) 3.60ng
 response 379908

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	29.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

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

24.545min (-0.011) 3.17ng

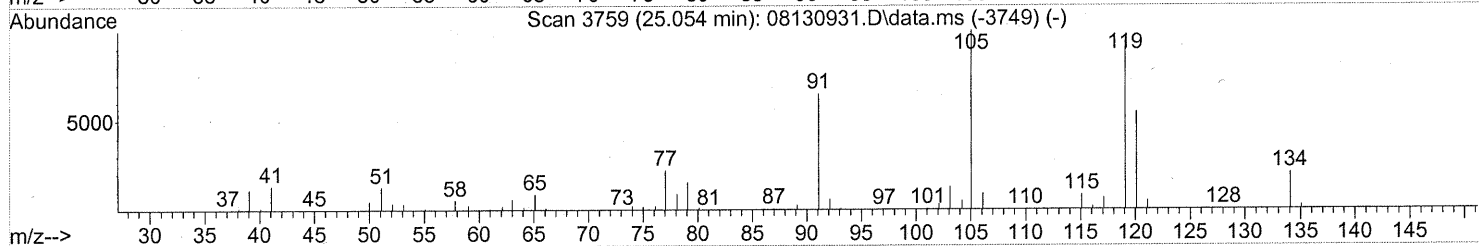
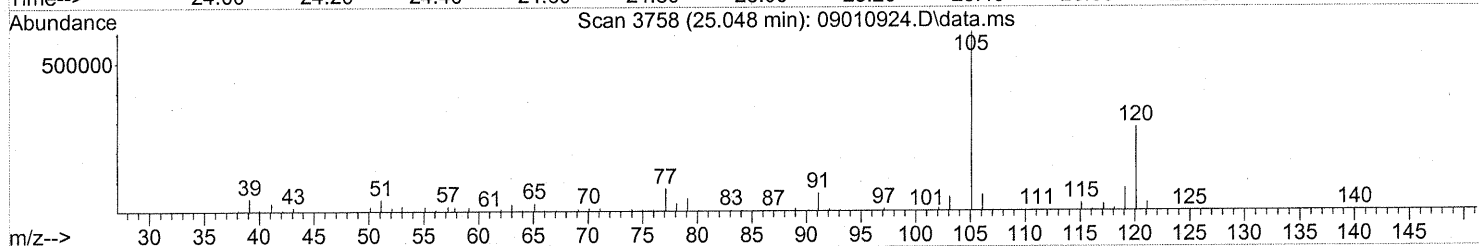
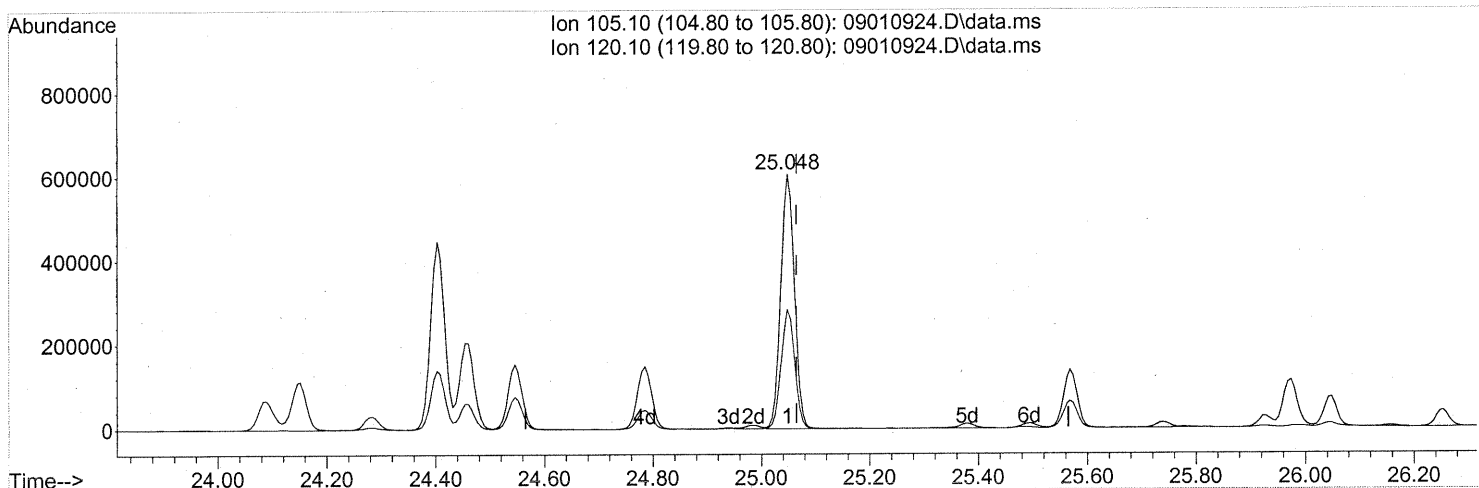
response 276345

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	49.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

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

25.048min (-0.017) 11.41ng

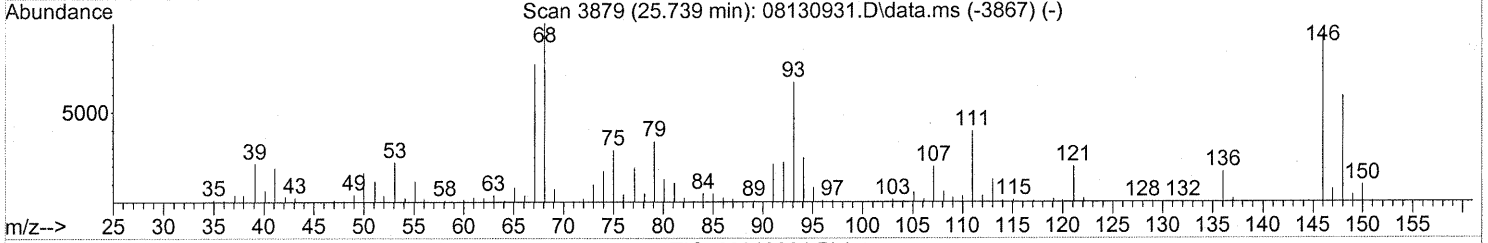
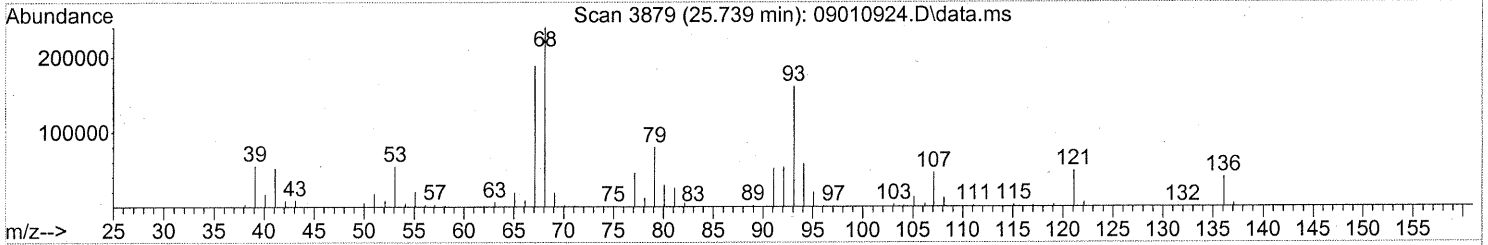
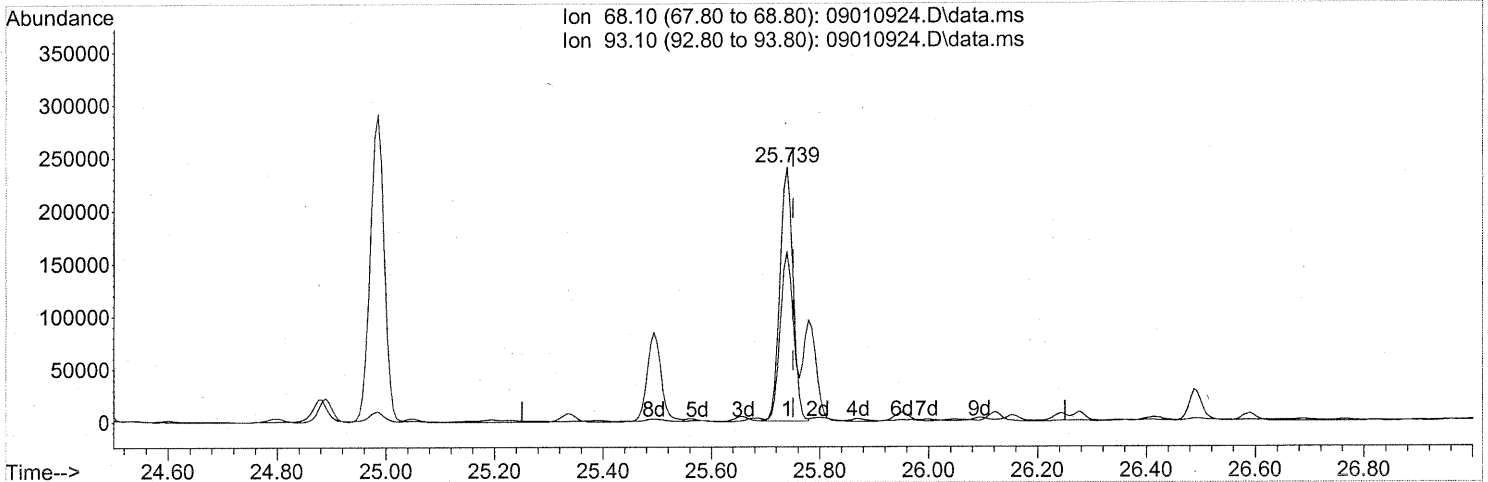
response 1056241

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010924.D
 Acq On : 2 Sep 2009 1:25
 Operator : EM
 Sample : P0902975-004 (1000ml)
 Misc : Environmental H & E 103996
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010924.D\data.ms

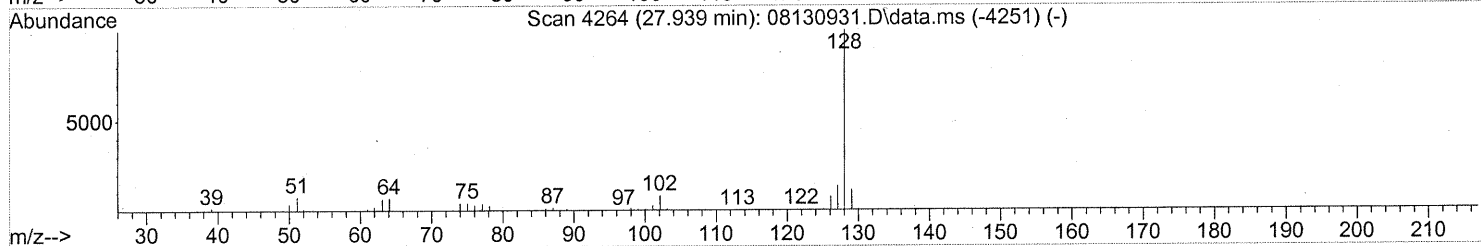
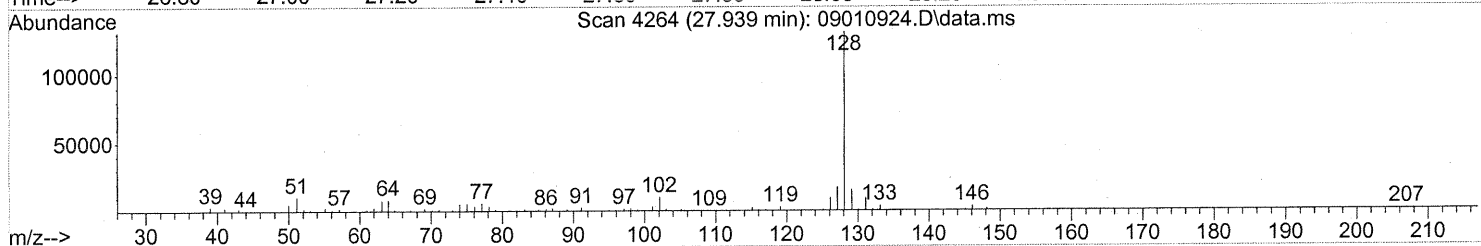
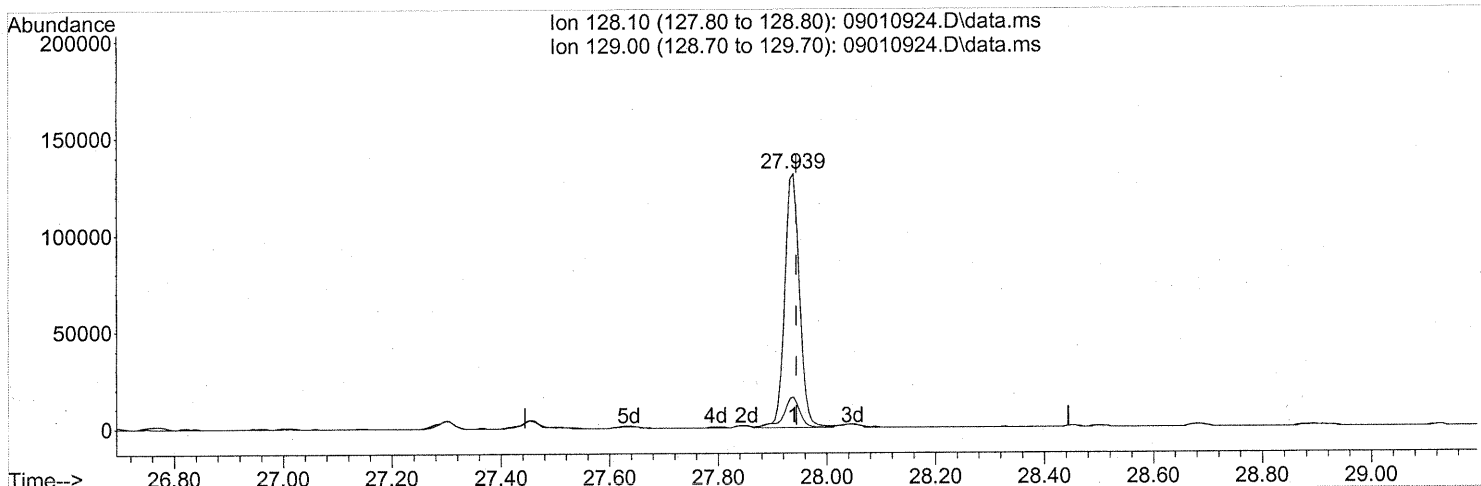
(91) d-Limonene (T)
 25.739min (-0.011) 10.56ng
 response 400170

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	69.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
Data File : 09010924.D
Acq On : 2 Sep 2009 1:25
Operator : EM
Sample : P0902975-004 (1000ml)
Misc : Environmental H & E 103996
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 04 16:04:27 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA 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: 09010924.D\data.ms

(95) Naphthalene (T)
27.939min (-0.006) 1.98ng
response 246606

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	13.17
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: 103997

Client Project ID: 16512

CAS Project ID: P0902975

CAS Sample ID: P0902975-005

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: AC01392

Date Collected: 8/25/09

Date Received: 8/26/09

Date Analyzed: 9/2/09

Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.77	ND	0.44	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.77	0.44	0.15	
74-87-3	Chloromethane	0.45	0.15	0.22	0.074	
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	0.069	
74-83-9	Bromomethane	ND	0.15	ND	0.039	
75-00-3	Chloroethane	ND	0.15	ND	0.058	
64-17-5	Ethanol	ND	7.7	ND	4.1	
75-05-8	Acetonitrile	4.5	0.77	2.7	0.46	
107-02-8	Acrolein	1.2	0.77	0.54	0.33	
67-64-1	Acetone	12	7.7	5.3	3.2	
75-69-4	Trichlorofluoromethane	1.1	0.15	0.20	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.77	ND	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	0.51	0.15	0.066	0.020	
75-15-0	Carbon Disulfide	ND	0.77	ND	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	0.042	
108-05-4	Vinyl Acetate	ND	7.7	ND	2.2	
78-93-3	2-Butanone (MEK)	1.6	0.77	0.55	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.

Verified By: _____

Date: 9/10/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 103997
Client Project ID: 16512

CAS Project ID: P0902975
 CAS Sample ID: P0902975-005

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: AC01392

Date Collected: 8/25/09
Date Received: 8/26/09
Date Analyzed: 9/2/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.039	
141-78-6	Ethyl Acetate	ND	1.5	ND	0.42	
110-54-3	n-Hexane	ND	0.77	ND	0.22	
67-66-3	Chloroform	ND	0.15	ND	0.031	
109-99-9	Tetrahydrofuran (THF)	ND	0.77	ND	0.26	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.038	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	Benzene	0.34	0.15	0.11	0.048	
56-23-5	Carbon Tetrachloride	0.45	0.15	0.072	0.024	
110-82-7	Cyclohexane	ND	0.77	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.033	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.023	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.77	ND	0.21	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.37	
142-82-5	n-Heptane	ND	0.77	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	ND	0.17	
108-10-1	4-Methyl-2-pentanone	ND	0.77	ND	0.19	
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	ND	0.77	ND	0.20	
591-78-6	2-Hexanone	ND	0.77	ND	0.19	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	n-Butyl Acetate	ND	0.77	ND	0.16	

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

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

Verified By: _____

Date: _____

9/10/09 **253**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
 Client Sample ID: 103997
 Client Project ID: 16512

CAS Project ID: P0902975
 CAS Sample ID: P0902975-005

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: AC01392

Date Collected: 8/25/09
 Date Received: 8/26/09
 Date Analyzed: 9/2/09
 Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.77	ND	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	ND	0.77	ND	0.18	
179601-23-1	m,p-Xylenes	ND	0.77	ND	0.18	
75-25-2	Bromoform	ND	0.77	ND	0.074	
100-42-5	Styrene	ND	0.77	ND	0.18	
95-47-6	o-Xylene	ND	0.77	ND	0.18	
111-84-2	n-Nonane	ND	0.77	ND	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	0.89	0.77	0.16	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	ND	0.77	ND	0.16	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	ND	0.77	ND	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	ND	0.079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.77	ND	0.10	
91-20-3	Naphthalene	ND	0.77	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.77	ND	0.072	

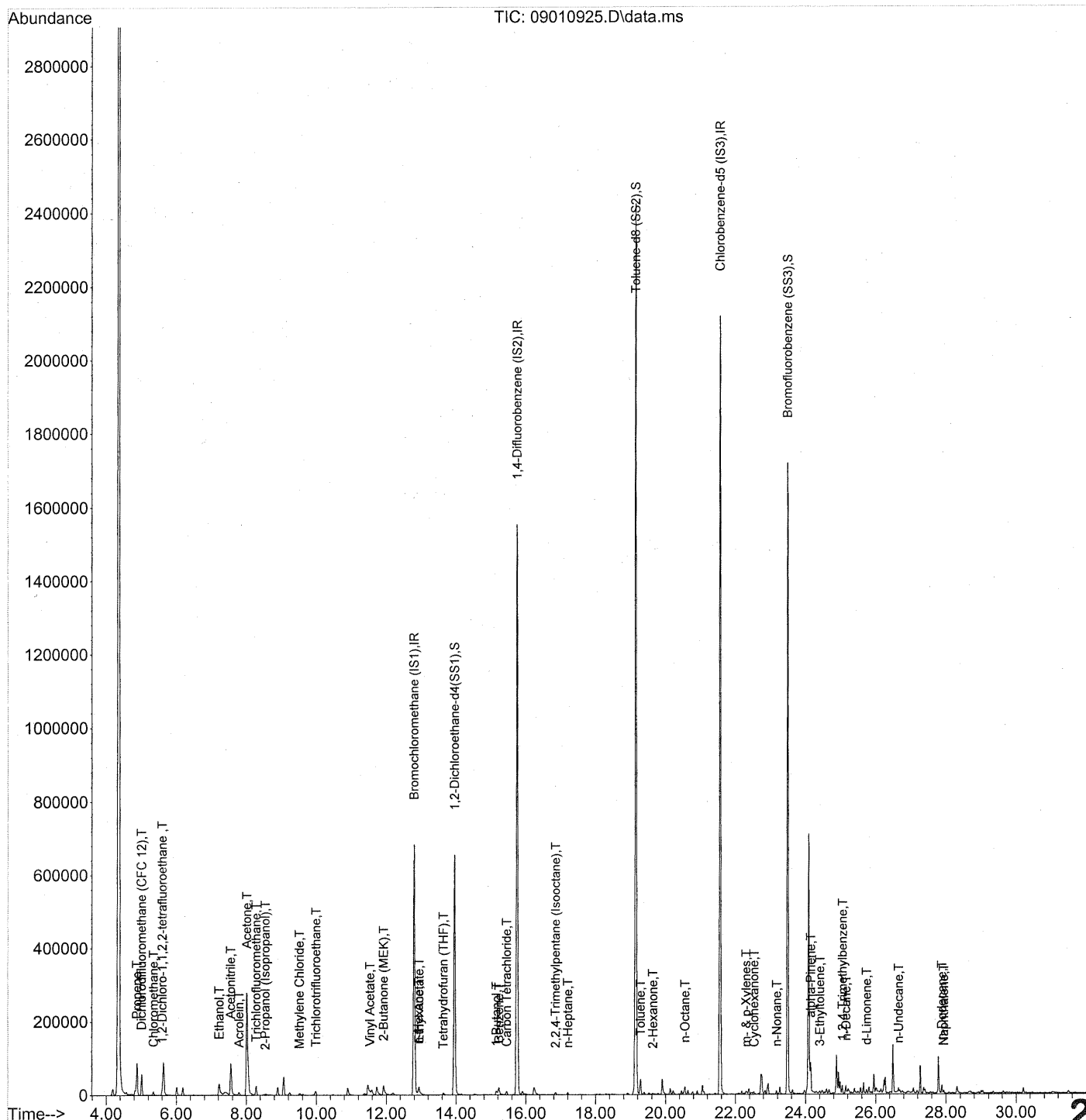
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: P Date: 9/10/09 **254**

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 04 16:10:31 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_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 04 16:10:31 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)	12.80	130	352519	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1820038	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	898950	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	647077	25.960	ng	-0.03	
Spiked Amount	25.000			Recovery	=	103.84%	✓
57) Toluene-d8 (SS2)	19.14	98	2114209	24.739	ng	-0.02	✓
Spiked Amount	25.000			Recovery	=	98.96%	
73) Bromofluorobenzene (SS3)	23.48	174	593428	24.519	ng	-0.01	✓
Spiked Amount	25.000			Recovery	=	98.08%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.88	42	15305	0.495 ng	#	21
3) Dichlorodifluoromethan...	5.01	85	62354	1.413 ng		99
4) Chloromethane	5.36	50	12192	0.296 ng		96
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1219	0.052 ng	#	43
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	107	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.23	45	93086m	4.799 ng		
11) Acetonitrile	7.55	41	138740	2.931 ng		99
12) Acrolein	7.79	56	10237	0.809 ng		100
13) Acetone	8.01	58	161184m	8.166 ng		
14) Trichlorofluoromethane	8.28	101	27058	0.717 ng		97
15) 2-Propanol (Isopropanol)	8.55	45	7788	0.144 ng	#	56
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.50	59	1851	N.D.		
19) Methylene Chloride	9.52	84	2338	0.095 ng	#	74
20) 3-Chloro-1-propene (Al...	9.60	41	604	N.D.		
21) Trichlorotrifluoroethane	9.98	151	5585	0.331 ng		93
22) Carbon Disulfide	9.94	76	3575	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	11.53	86	2349	0.549 ng	#	1
27) 2-Butanone (MEK)	11.92	72	14574m	1.059 ng		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.94	61	3831	0.429 ng		94
31) n-Hexane	12.93	57	5357	0.123 ng		94

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em 9/8/09

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 04 16:10:31 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	13.01	83	1345	N.D.		
34) Tetrahydrofuran (THF)	13.63	72	1272	0.089 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	14.53	97	228	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.15	56	17234	0.731 ng		87
41) Benzene	15.23	78	21768	0.222 ng		96
42) Carbon Tetrachloride	15.45	117	8119	0.297 ng		100
43) Cyclohexane	15.64	84	111	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...	16.85	57	7292	0.065 ng		83
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	17.21	71	1614	0.062 ng	#	73
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.02	58	266	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	19.28	91	26089	0.252 ng		99
59) 2-Hexanone	19.64	43	9179	0.170 ng	#	60
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.46	43	1661	N.D.		
63) n-Octane	20.56	57	3986	0.173 ng	#	81
64) Tetrachloroethene	20.76	166	538	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.10	91	4690	N.D.		
67) m- & p-Xylenes	22.31	91	10401	0.117 ng		99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.79	104	1903	N.D.		
70) o-Xylene	22.92	91	4311	N.D.		
71) n-Nonane	23.17	43	5485	0.102 ng	#	74
72) 1,1,2,2-Tetrachloroethane	22.91	83	114	N.D.		
74) Cumene	23.67	105	939	N.D.		
75) alpha-Pinene	24.15	93	33136	0.581 ng	#	45
76) n-Propylbenzene	24.28	91	2386	N.D.		
77) 3-Ethyltoluene	24.41	105	5851	0.054 ng		82
78) 4-Ethyltoluene	24.46	105	4143	N.D.		
79) 1,3,5-Trimethylbenzene	24.55	105	2202	N.D.		

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 04 16:10:31 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

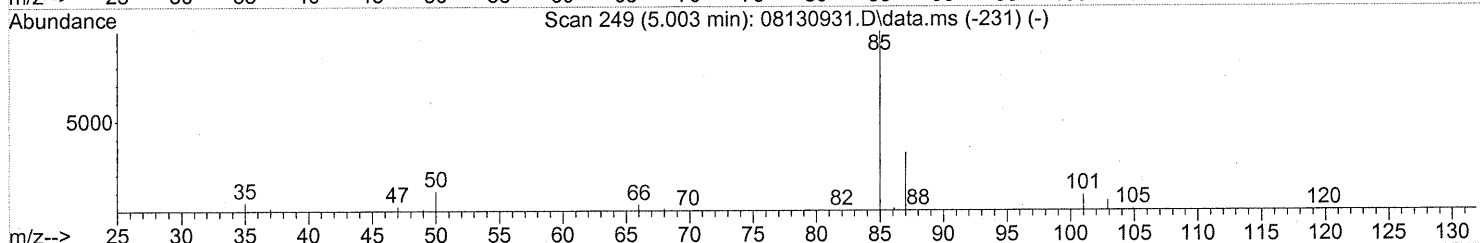
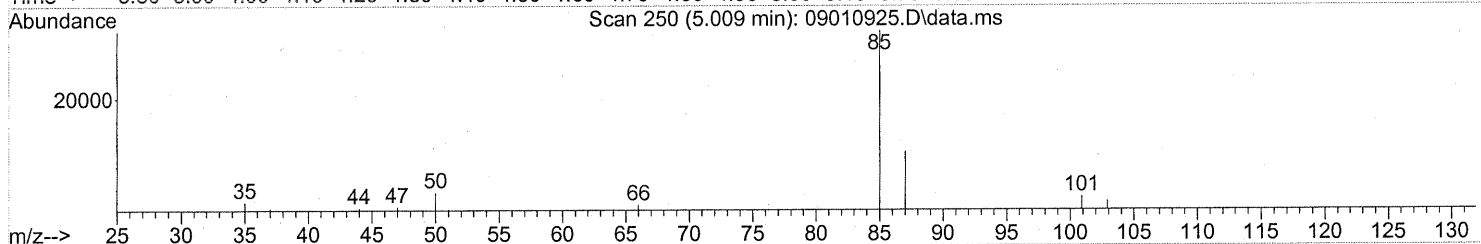
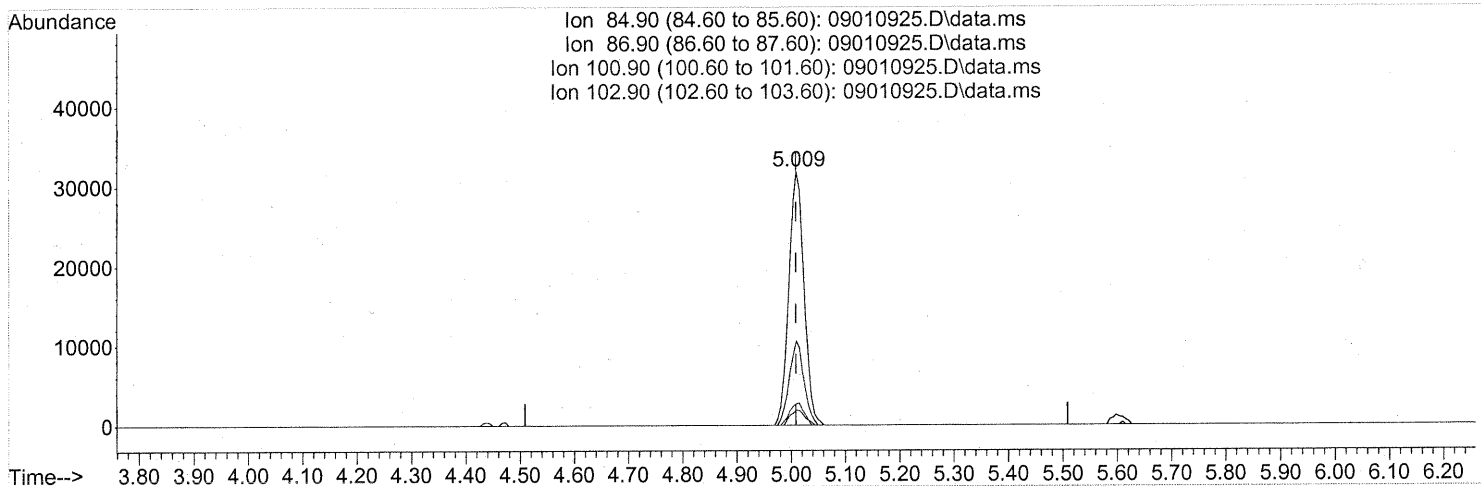
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.94	118	581		N.D.	
81) 2-Ethyltoluene	24.80	105	2324		N.D.	
82) 1,2,4-Trimethylbenzene	25.05	105	7037	0.074	ng	84
83) n-Decane	25.15	57	13390	0.241	ng	94
84) Benzyl Chloride	25.05	91	794		N.D.	
85) 1,3-Dichlorobenzene	25.33	146	118		N.D.	
86) 1,4-Dichlorobenzene	25.33	146	118		N.D.	
87) sec-Butylbenzene	25.38	105	590		N.D.	
88) 4-Isopropyltoluene (p-...	25.56	119	4183		N.D.	
89) 1,2,3-Trimethylbenzene	25.57	105	2353		N.D.	
90) 1,2-Dichlorobenzene	25.33	146	118		N.D.	
91) d-Limonene	25.74	68	2476	0.063	ng	91
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.65	57	6534	0.114	ng	94
94) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
95) Naphthalene	27.94	128	8553	0.067	ng	88
96) n-Dodecane	27.89	57	10012	0.156	ng	91
97) Hexachlorobutadiene	0.00	225	0		N.D.	
98) Cyclohexanone	22.53	55	3067	0.094	ng	# 80
99) tert-Butylbenzene	25.05	119	766		N.D.	
100) n-Butylbenzene	26.07	91	782		N.D.	

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.009min (+0.000) 1.41ng

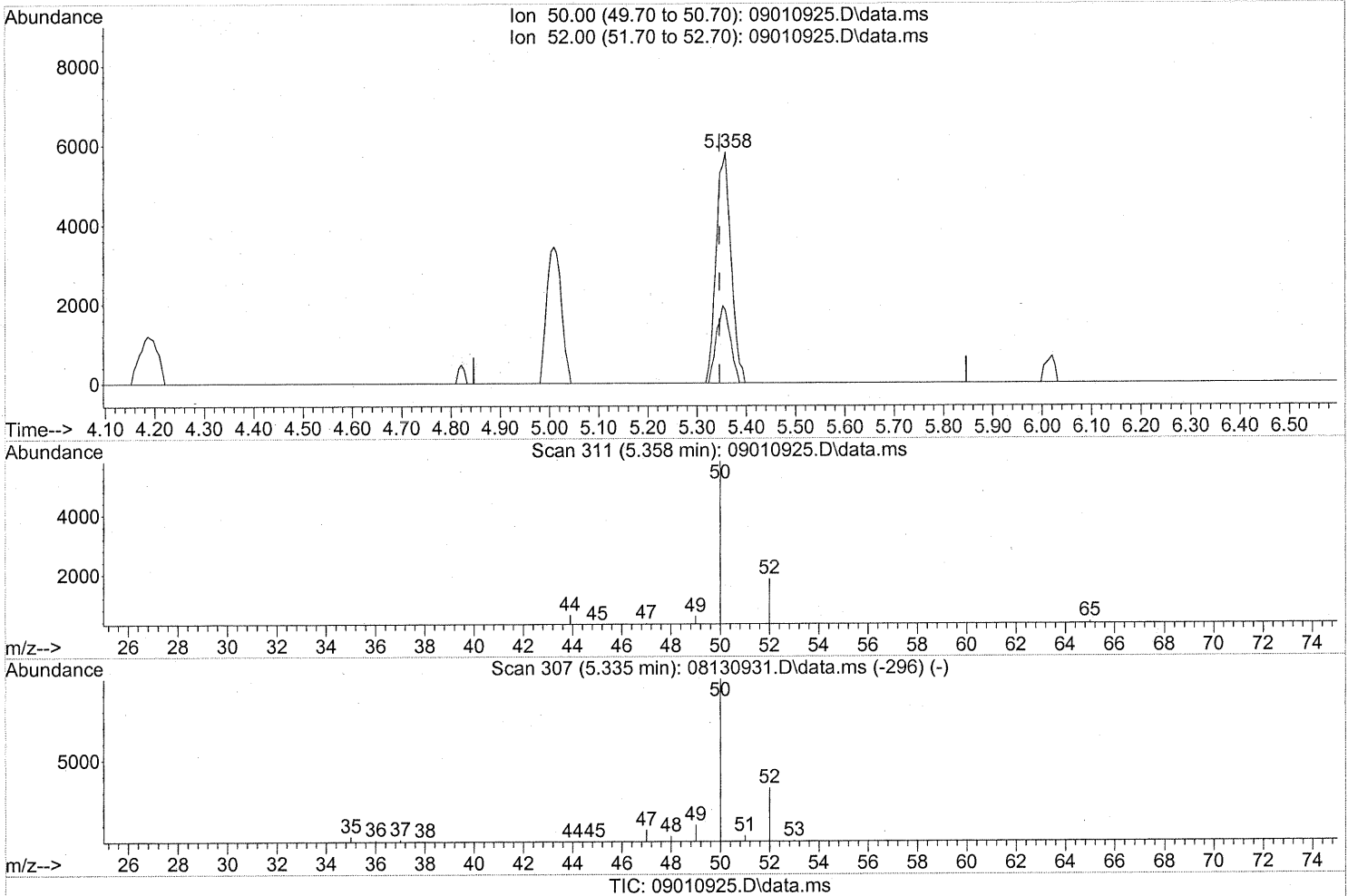
response 62354

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.77
100.90	9.10	8.31
102.90	5.50	5.43

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



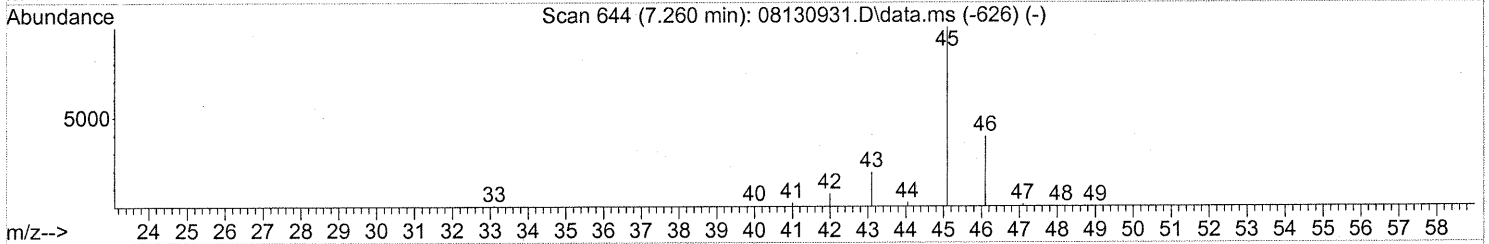
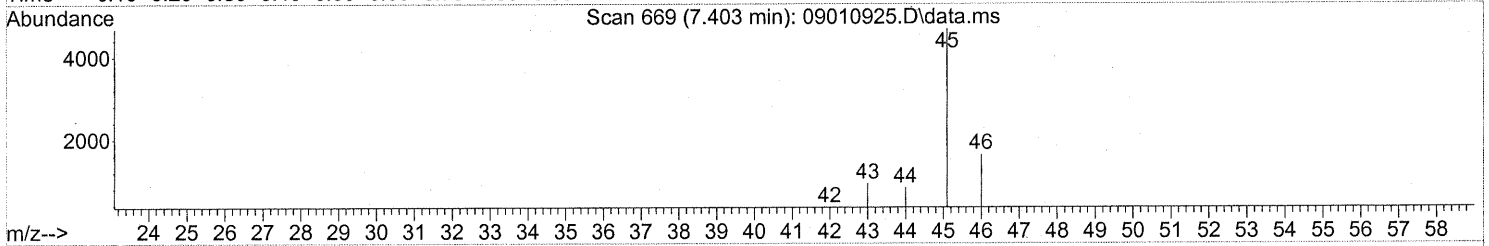
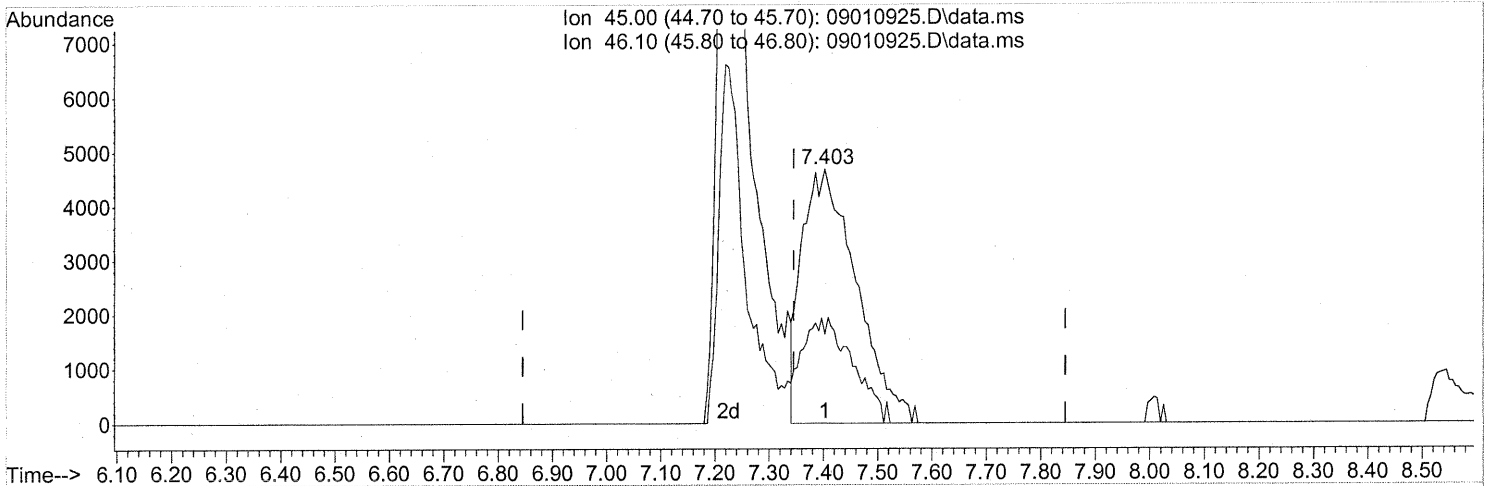
(4) Chloromethane (T)
 5.358min (+0.012) 0.30ng
 response 12192

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)

7.403min (+0.057) 1.68ng

response 32603

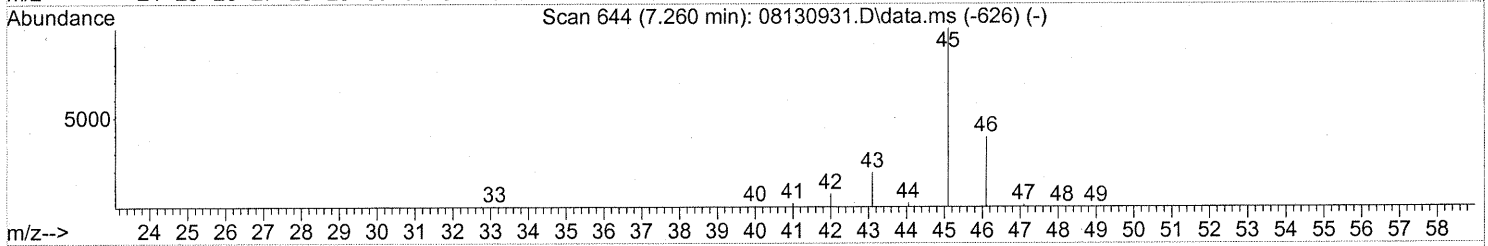
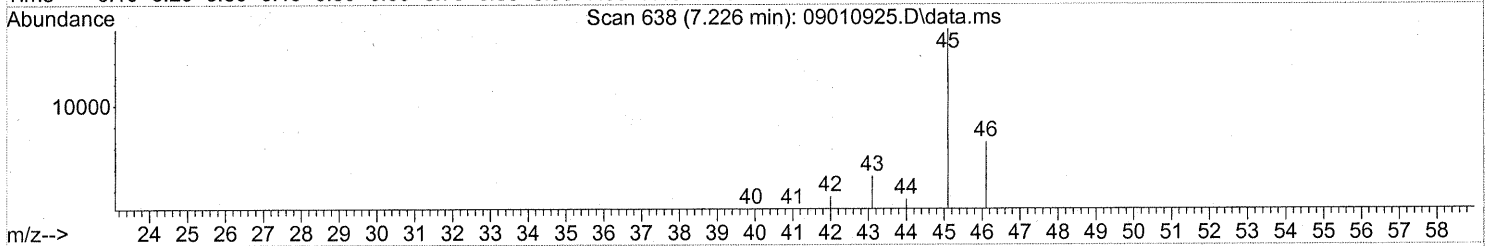
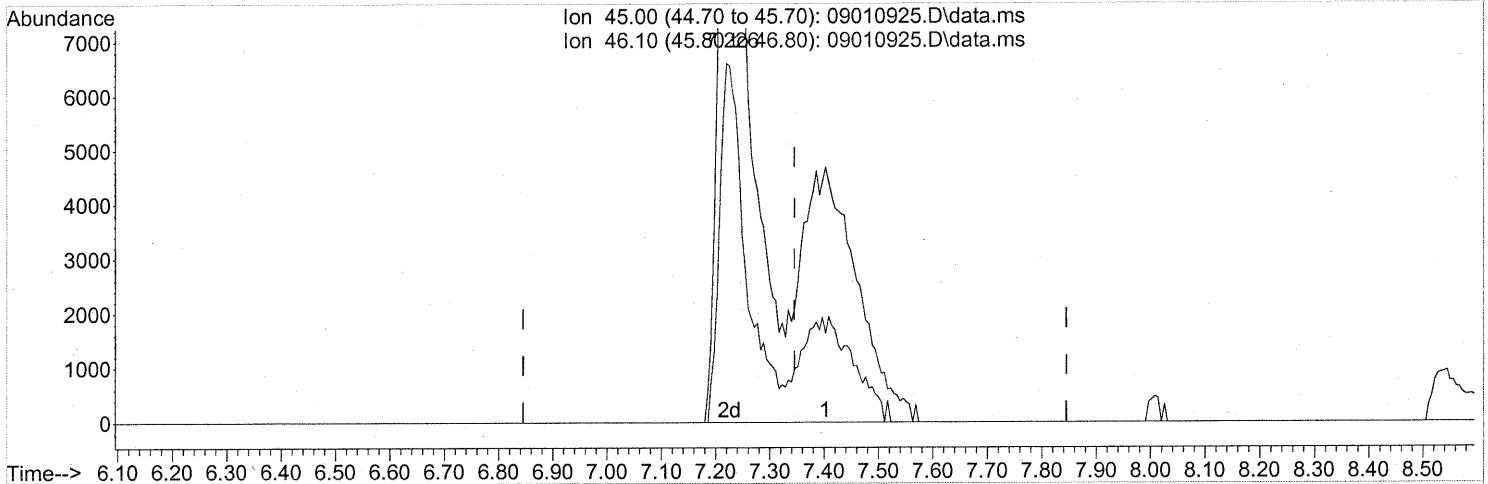
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.74
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

(10) Ethanol (T)
 7.226min (-0.120) 4.80ng m
 response 93086

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	13.92#
0.00	0.00	0.00
0.00	0.00	0.00

SRL

SP → IC

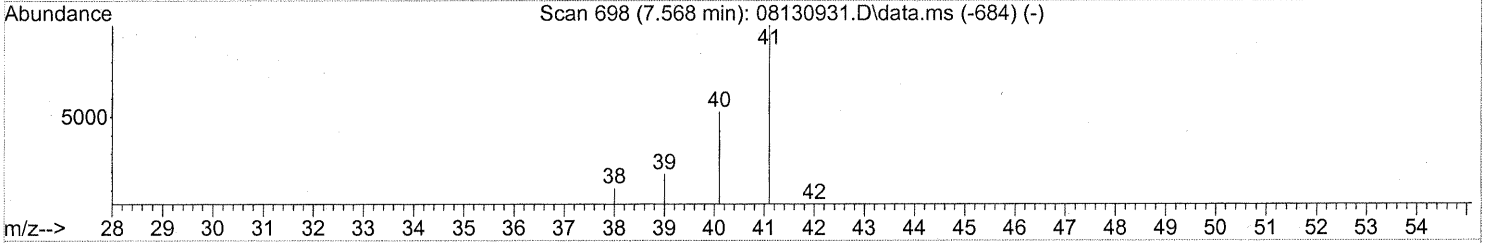
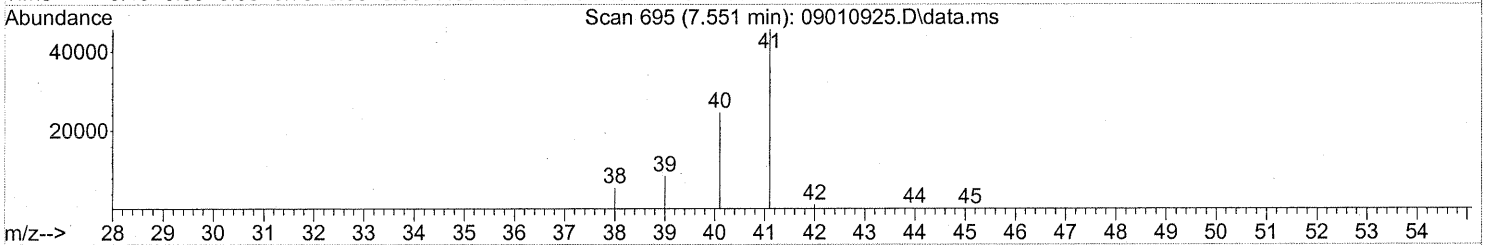
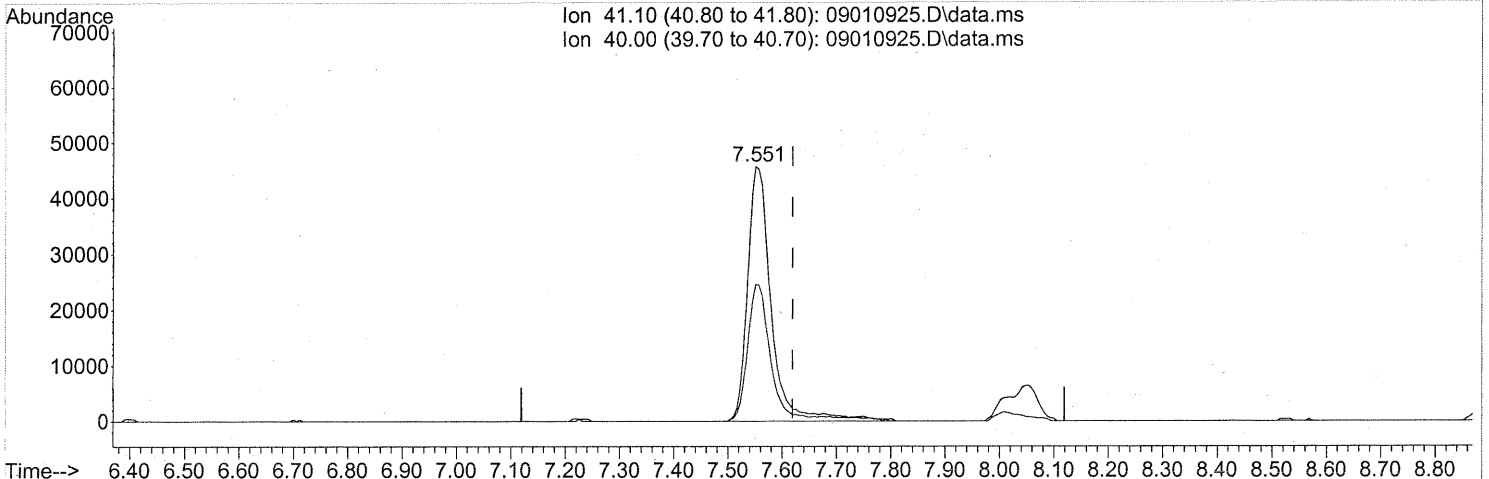
em 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

(11) Acetonitrile (T)

7.551min (-0.068) 2.93ng

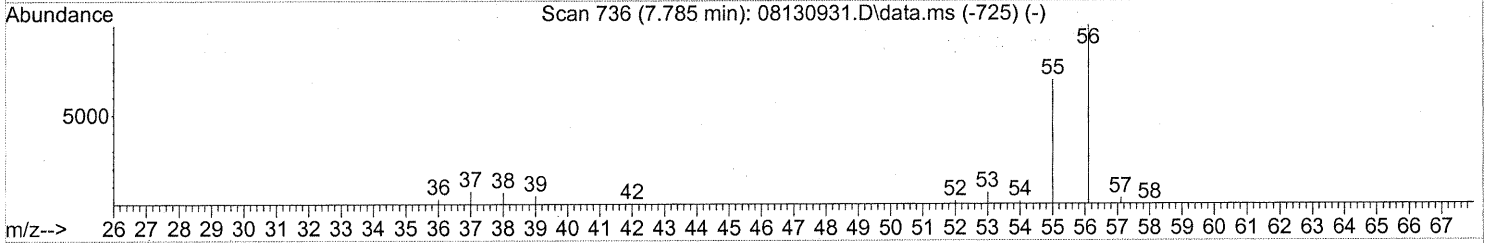
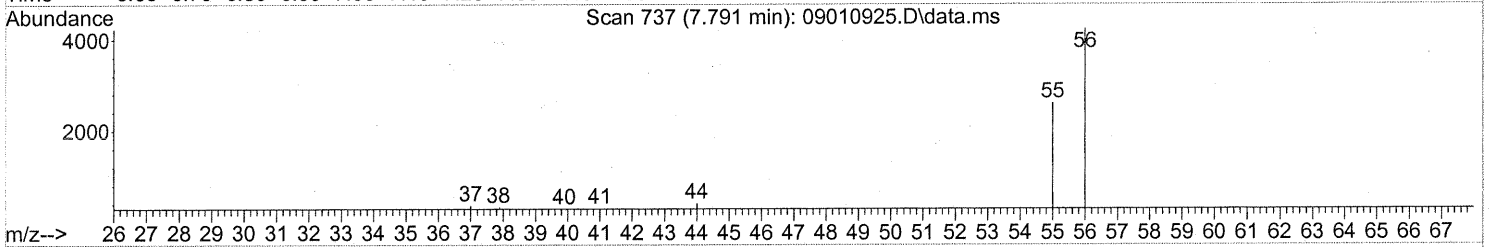
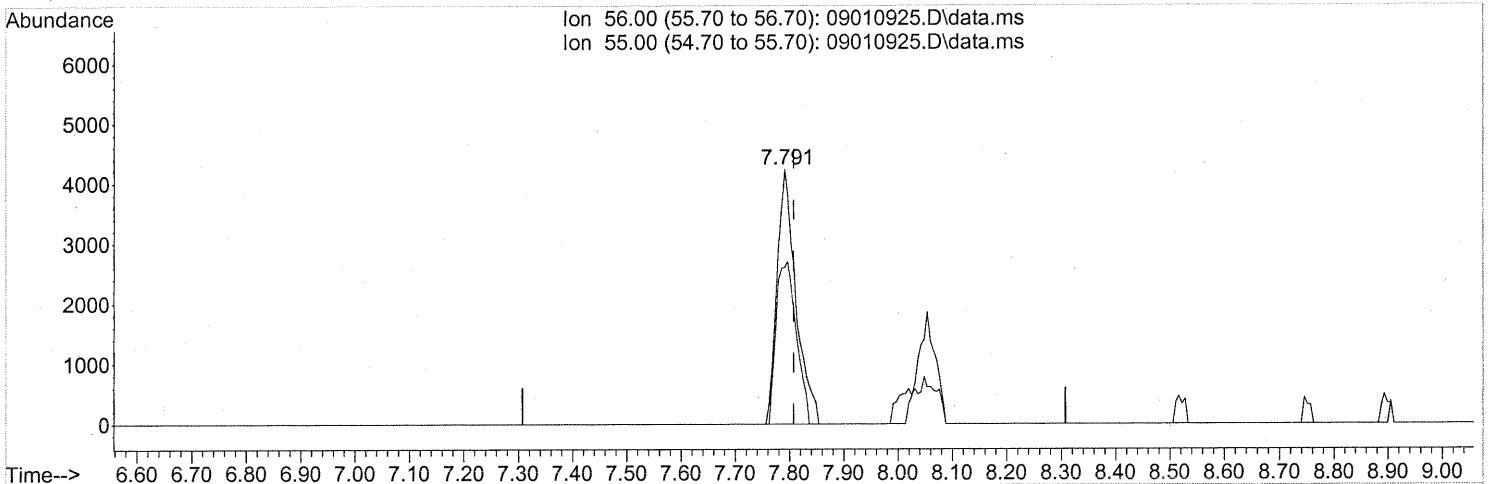
response 138740

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	54.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

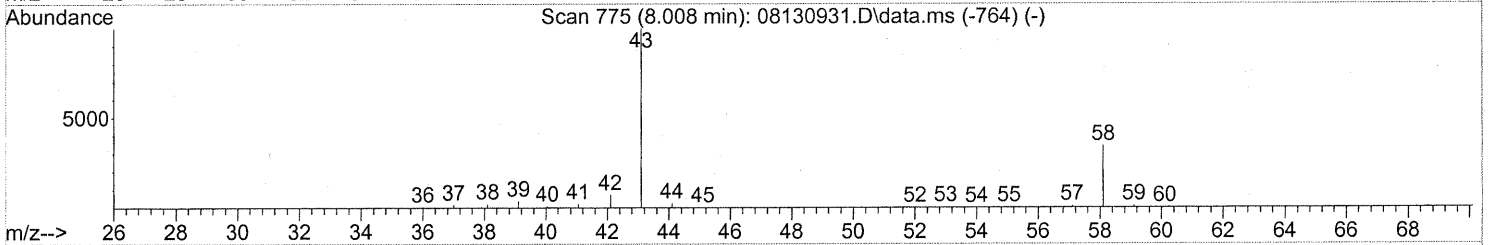
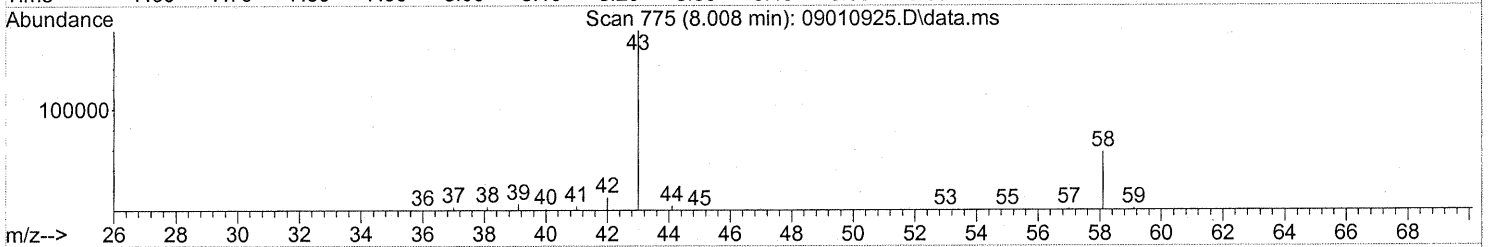
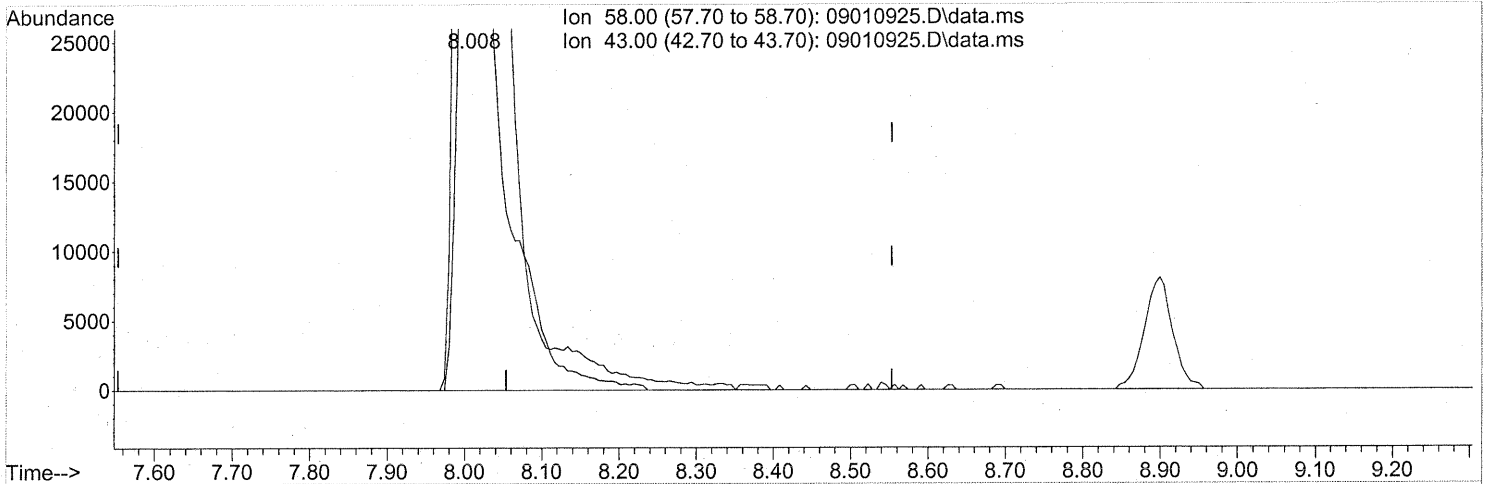
(12) Acrolein (T)
 7.791min (-0.017) 0.81ng
 response 10237

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	68.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

(13) Acetone (T)

8.008min (-0.046) 9.42ng

response 185903

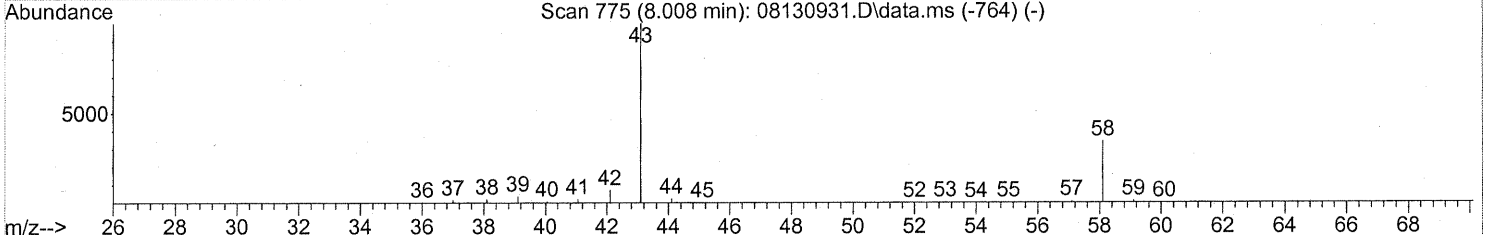
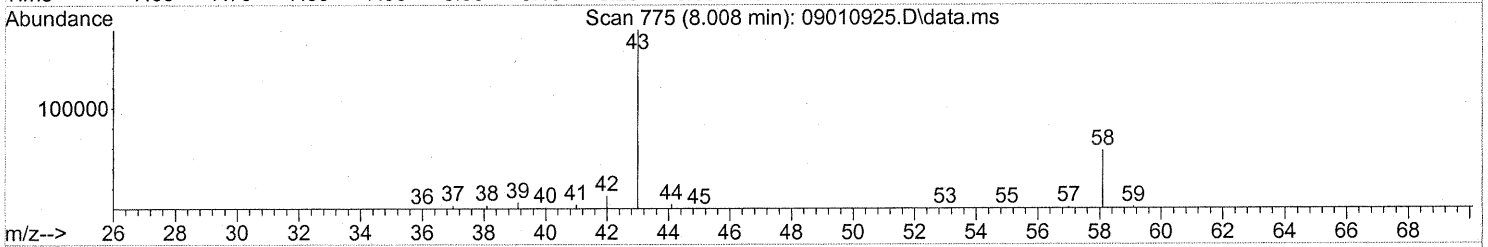
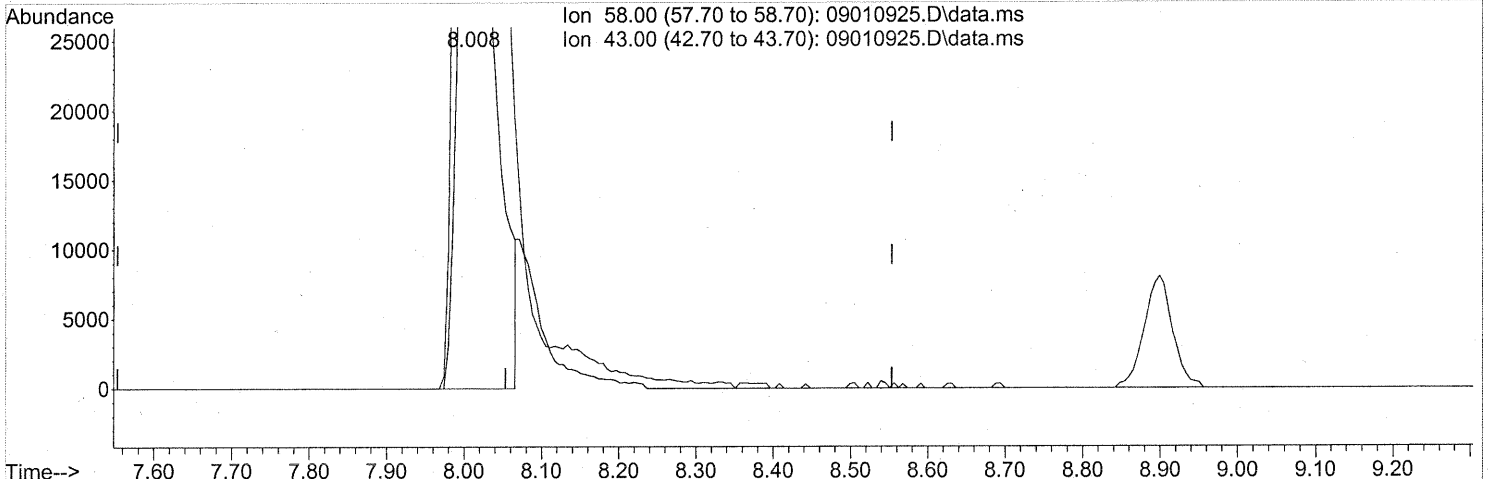
87

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	284.23#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(13) Acetone.(T)
 8.008min (-0.046) 8.17ng m
 response 161184

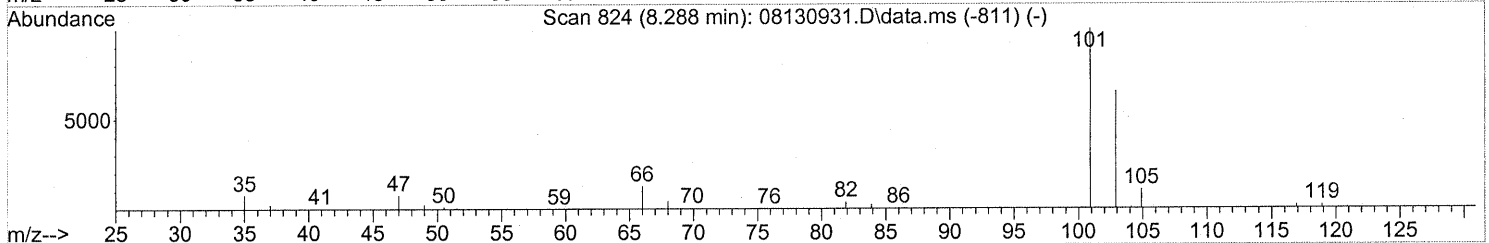
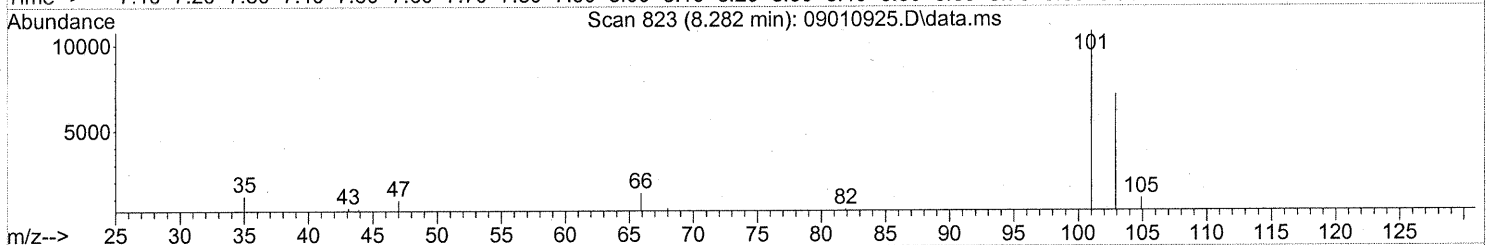
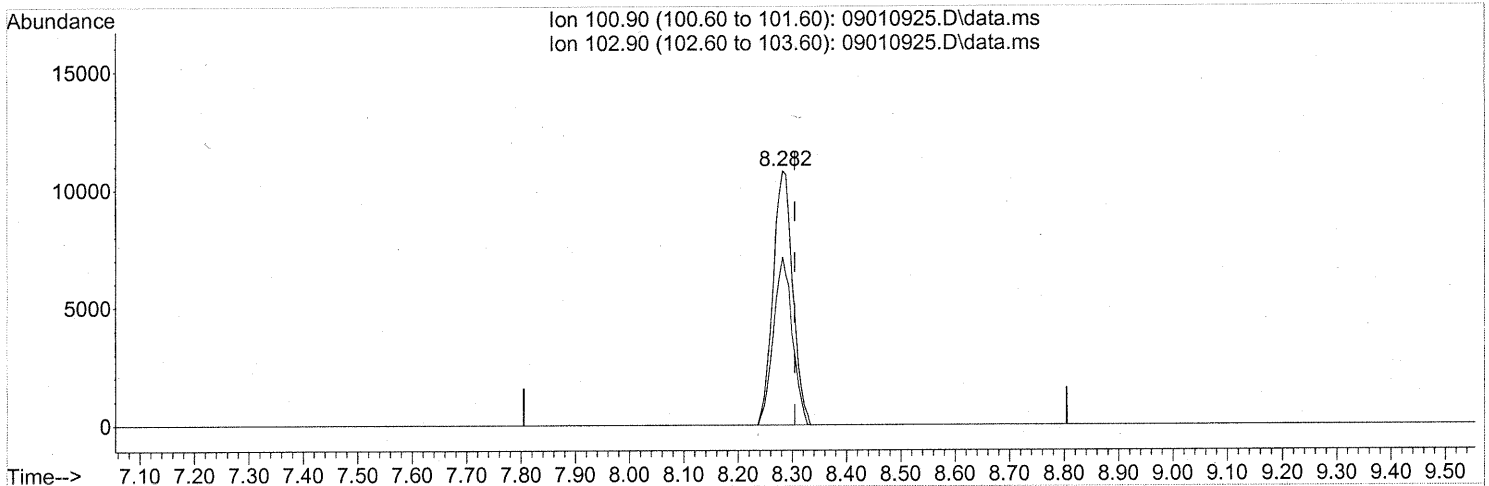
Ion	Exp%	Act%
58.00	100	100
43.00	317.70	327.82
0.00	0.00	0.00
0.00	0.00	0.00

SH → IC
Cam 9/8/09
KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 0.72ng

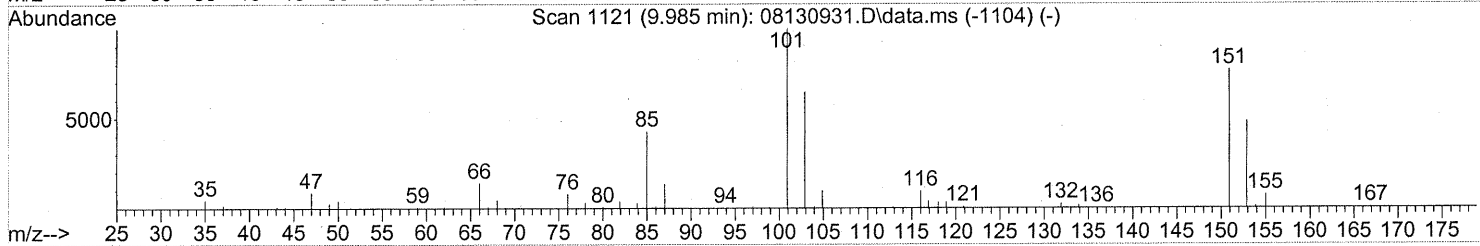
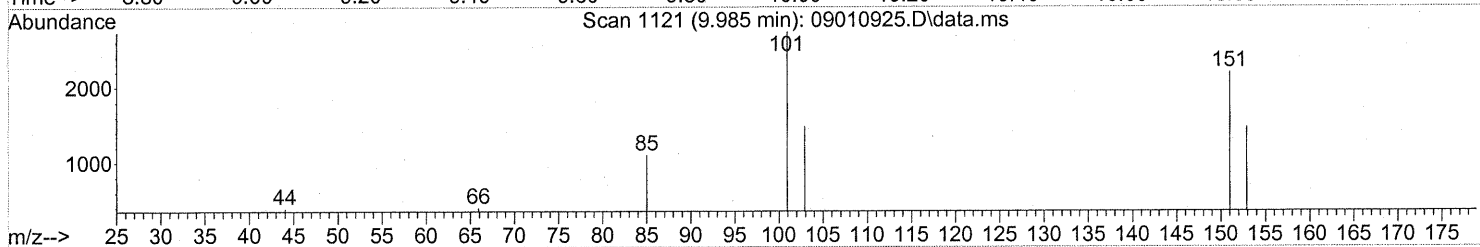
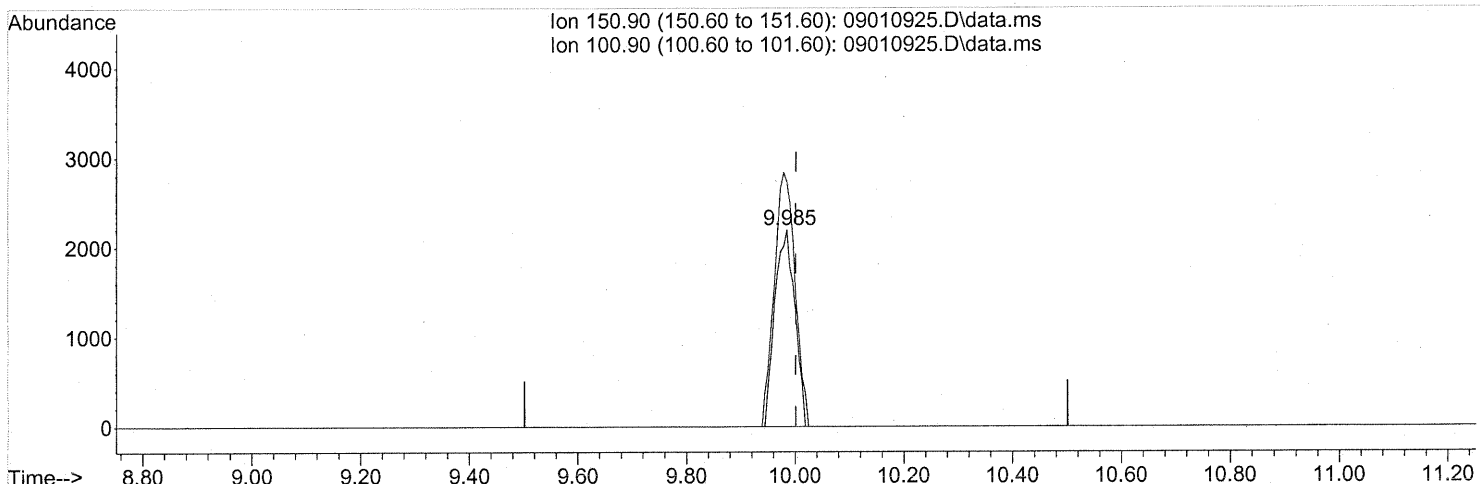
response 27058

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	63.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.33ng

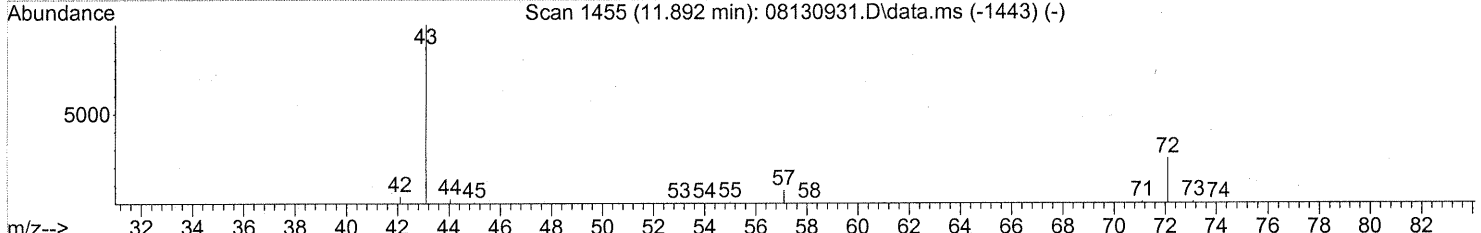
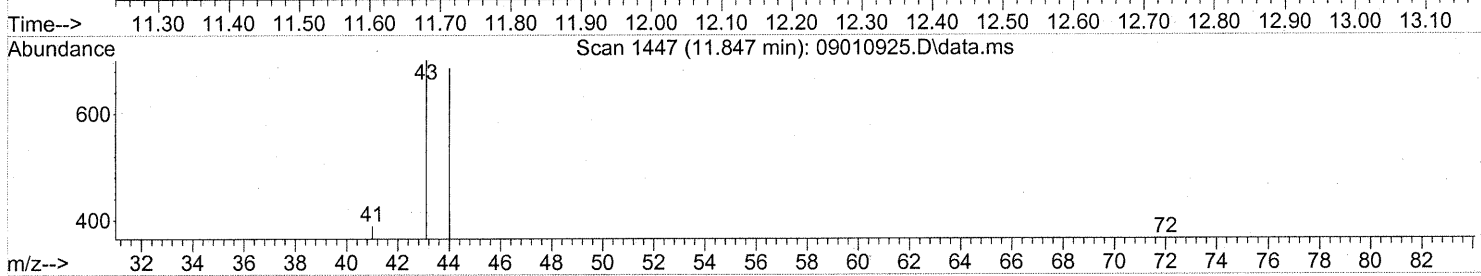
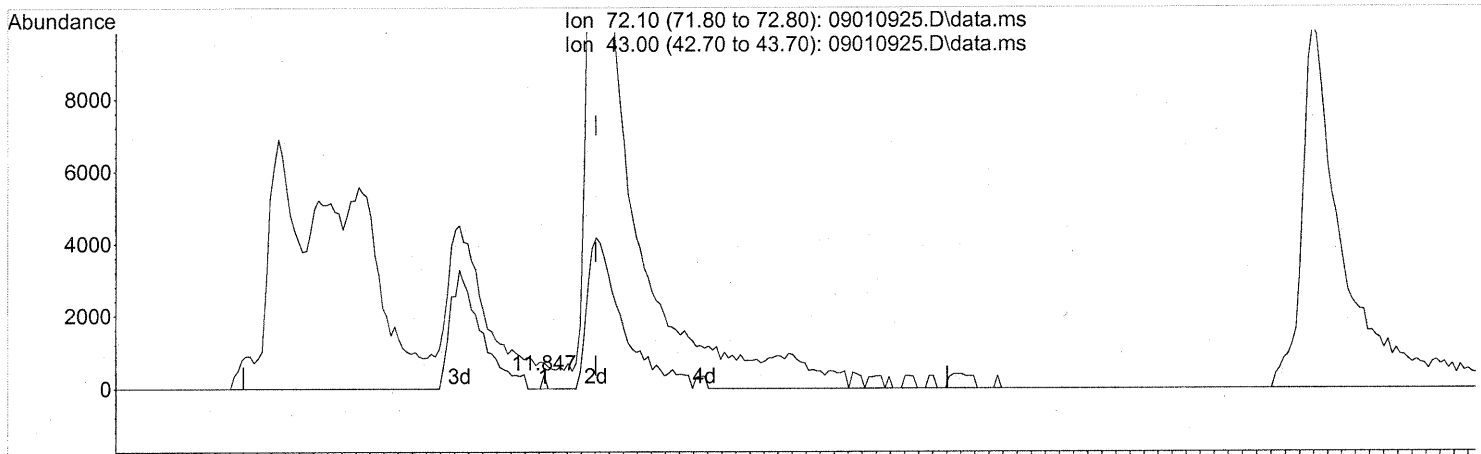
response 5585

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	135.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)

11.847min (-0.074) 0.01ng

response 125

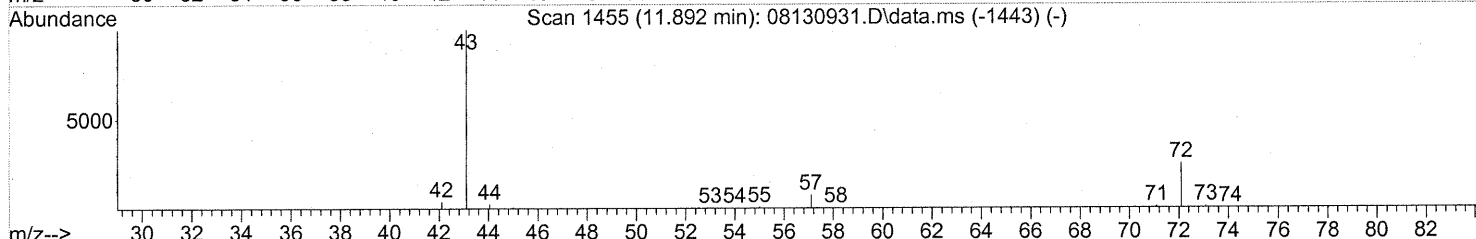
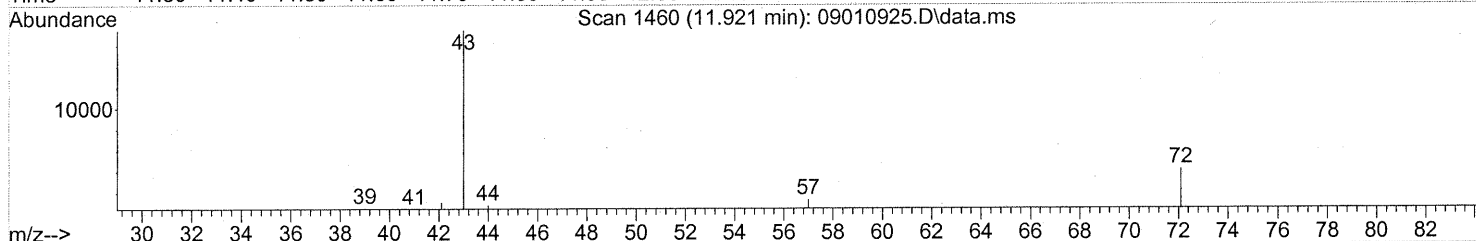
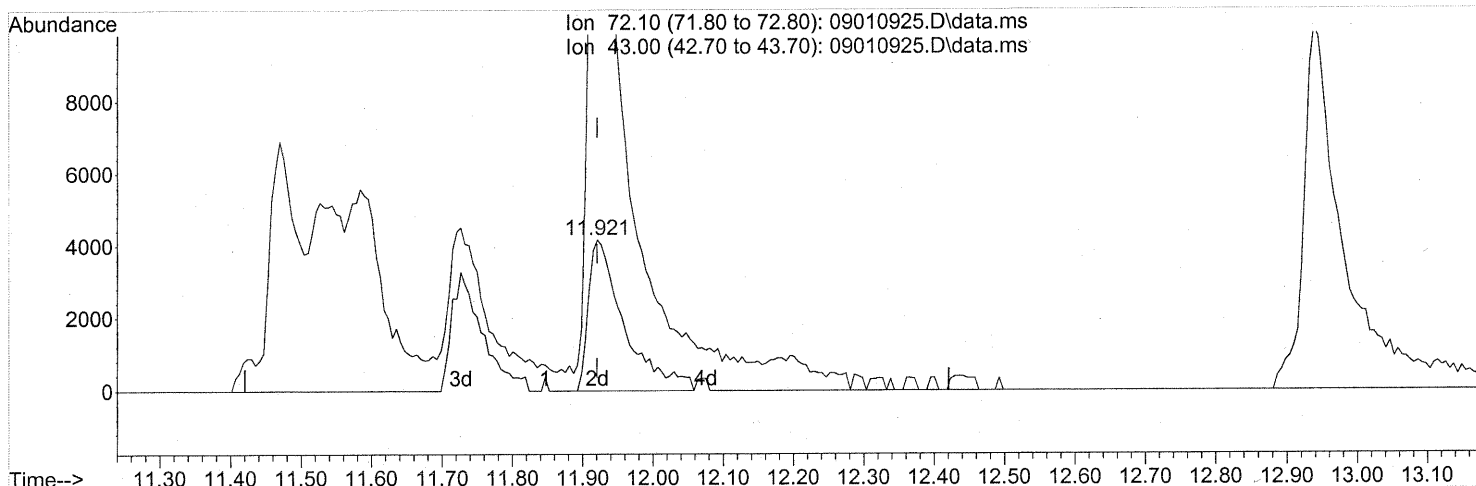
Ion	Exp%	Act%
72.10	100	100
43.00	366.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

BNI

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)
 11.921min (+0.000) 1.06ng m
 response 14574

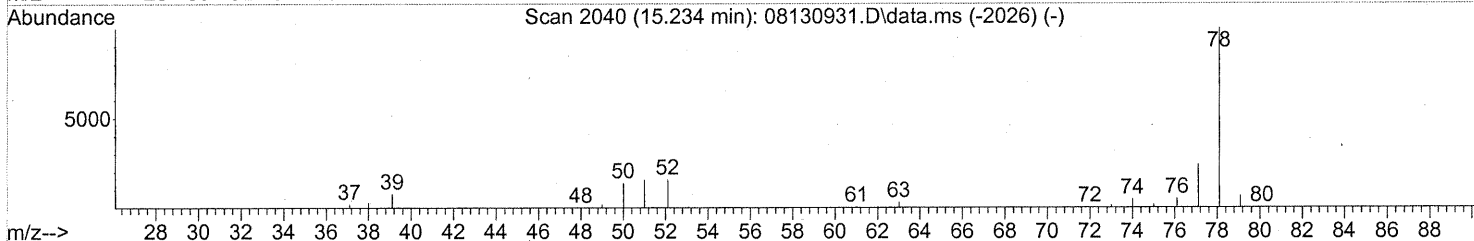
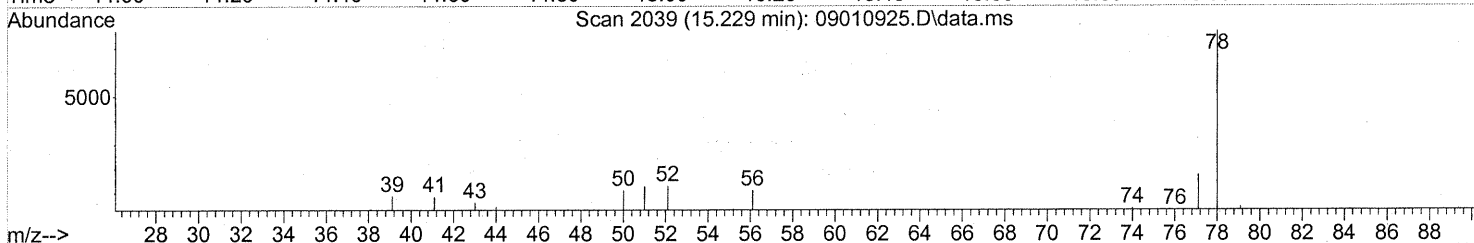
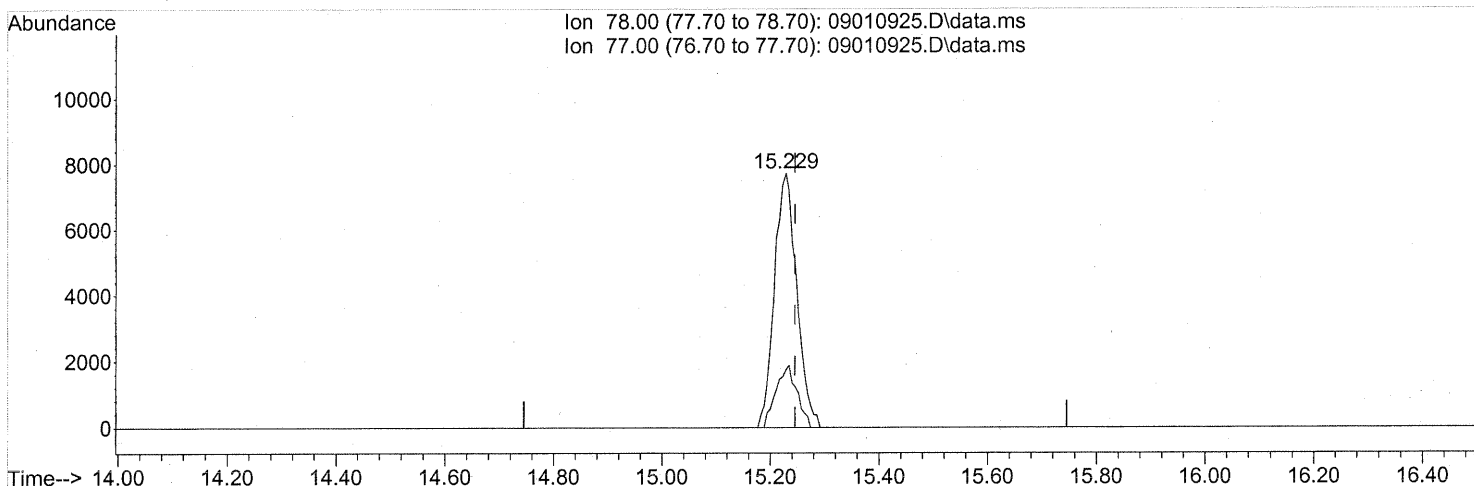
Ion	Exp%	Act%
72.10	100	100
43.00	366.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

BNI → IC
em 9/8/09
KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

(41) Benzene (T)

15.229min (-0.017) 0.22ng

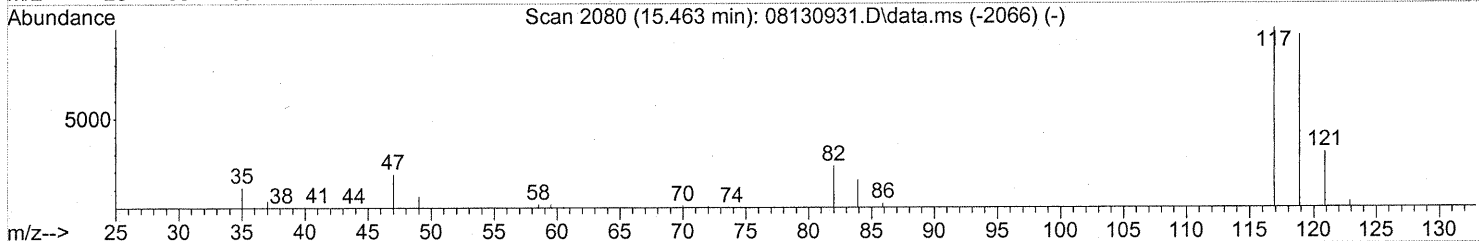
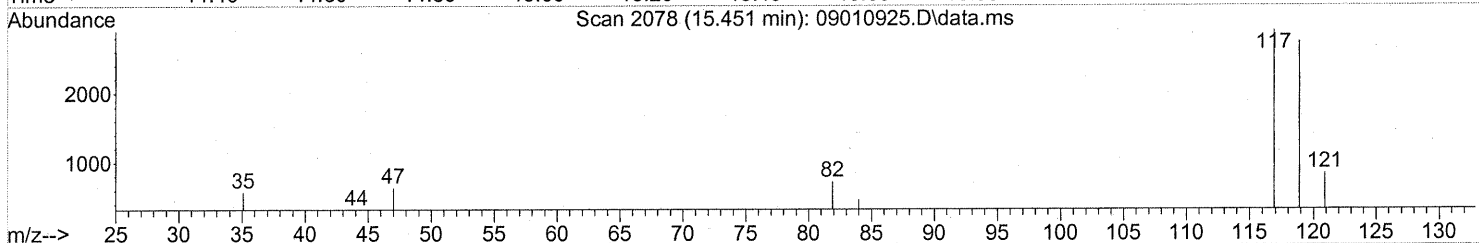
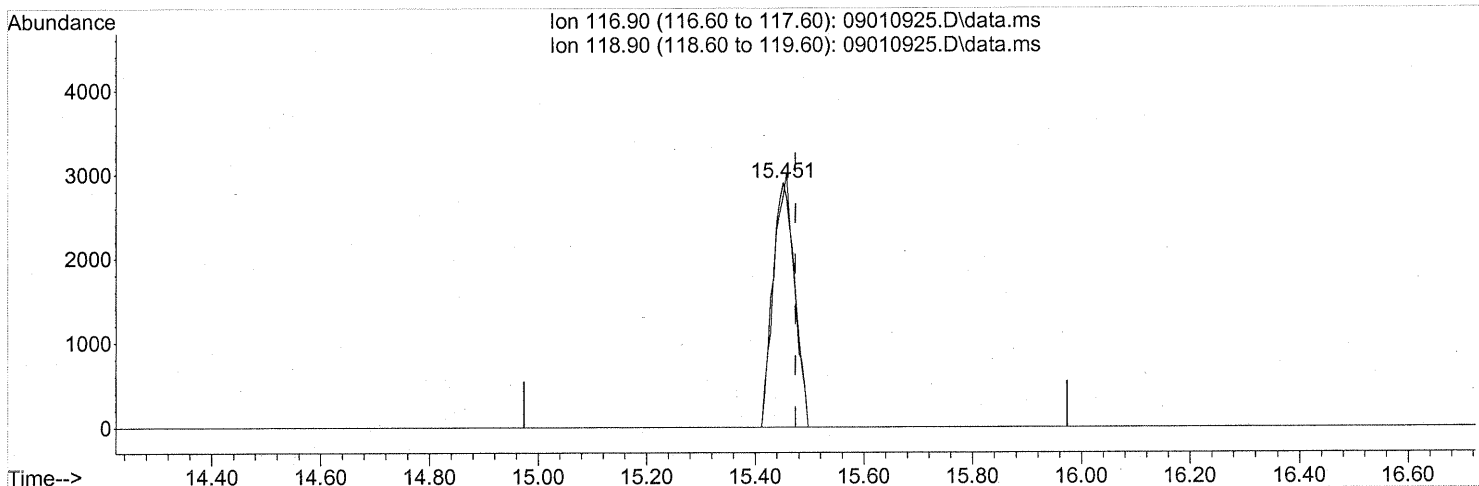
response 21768

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	22.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

(42) Carbon Tetrachloride (T)

15.451min (-0.023) 0.30ng

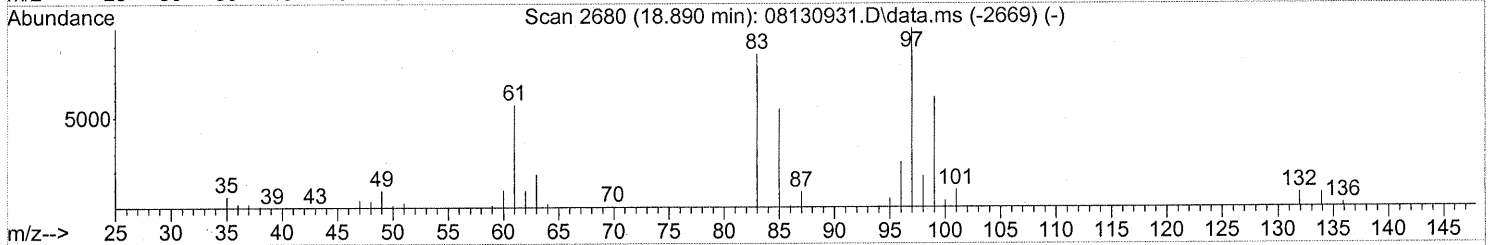
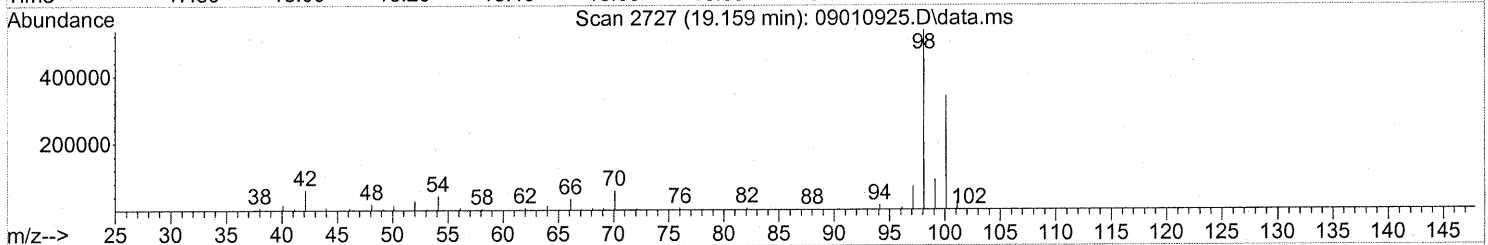
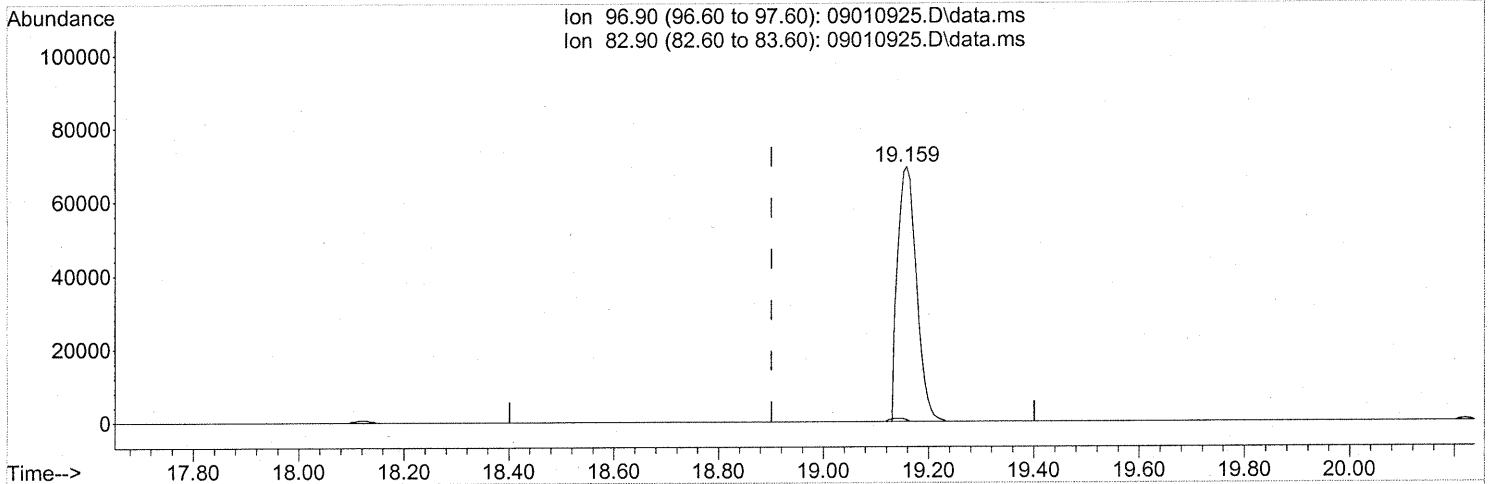
response 8119

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	97.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

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

19.159min (+0.257) 8.25ng

response 172416

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	0.89#
0.00	0.00	0.00
0.00	0.00	0.00

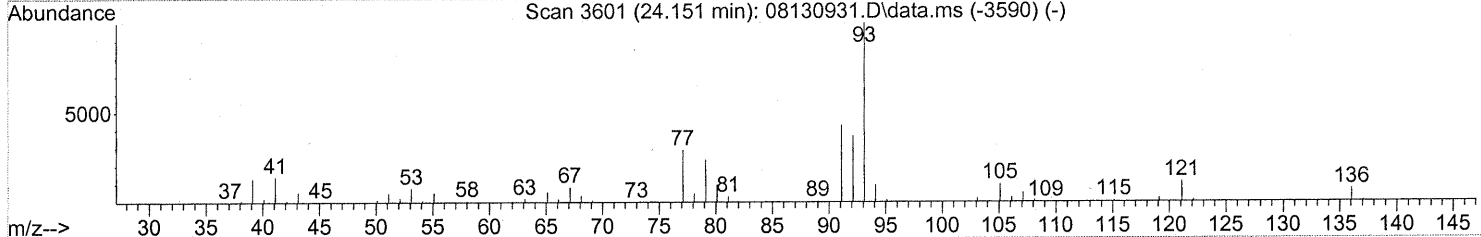
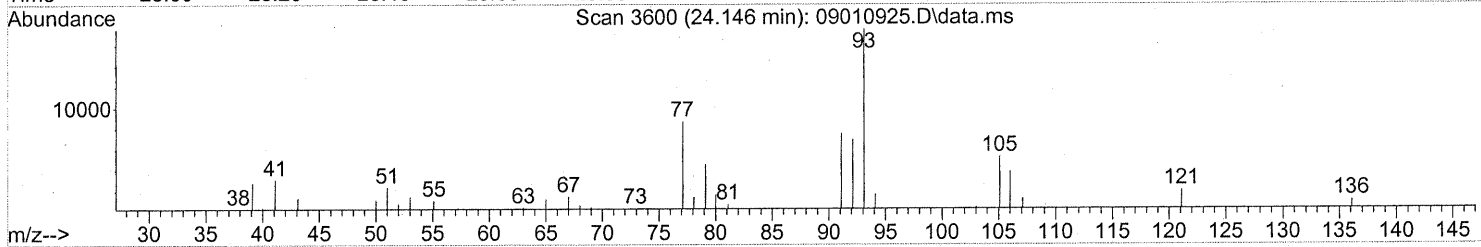
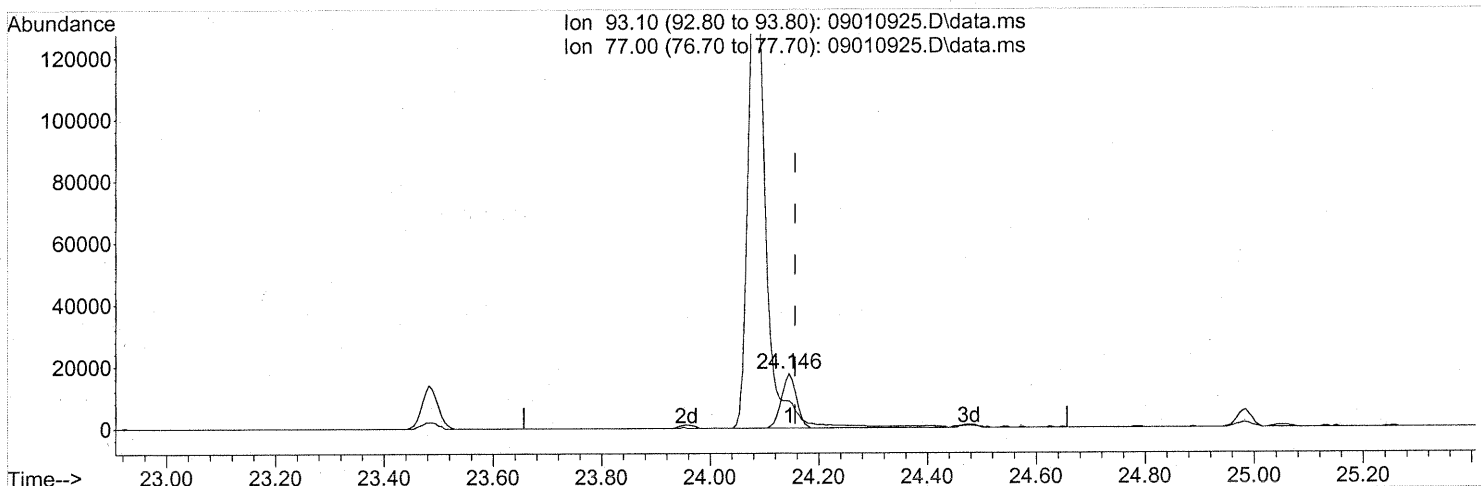
FP EM 9/8/09

KE 9/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010925.D
 Acq On : 2 Sep 2009 2:06
 Operator : EM
 Sample : P0902975-005 (1000ml)
 Misc : Environmental H & E 103997
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 02 07:51:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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: 09010925.D\data.ms

(75) alpha-Pinene (T)
 24.146min (-0.011) 0.58ng
 response 33136

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

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

CAS Project ID: P0902975
 CAS Sample ID: P090901-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: 9/1/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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: _____

9/1/09

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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: P0902975
 CAS Sample ID: P090901-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: 9/1/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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: P Date: 9/1/09 **276**

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: P0902975
 CAS Sample ID: P090901-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: 9/1/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	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.

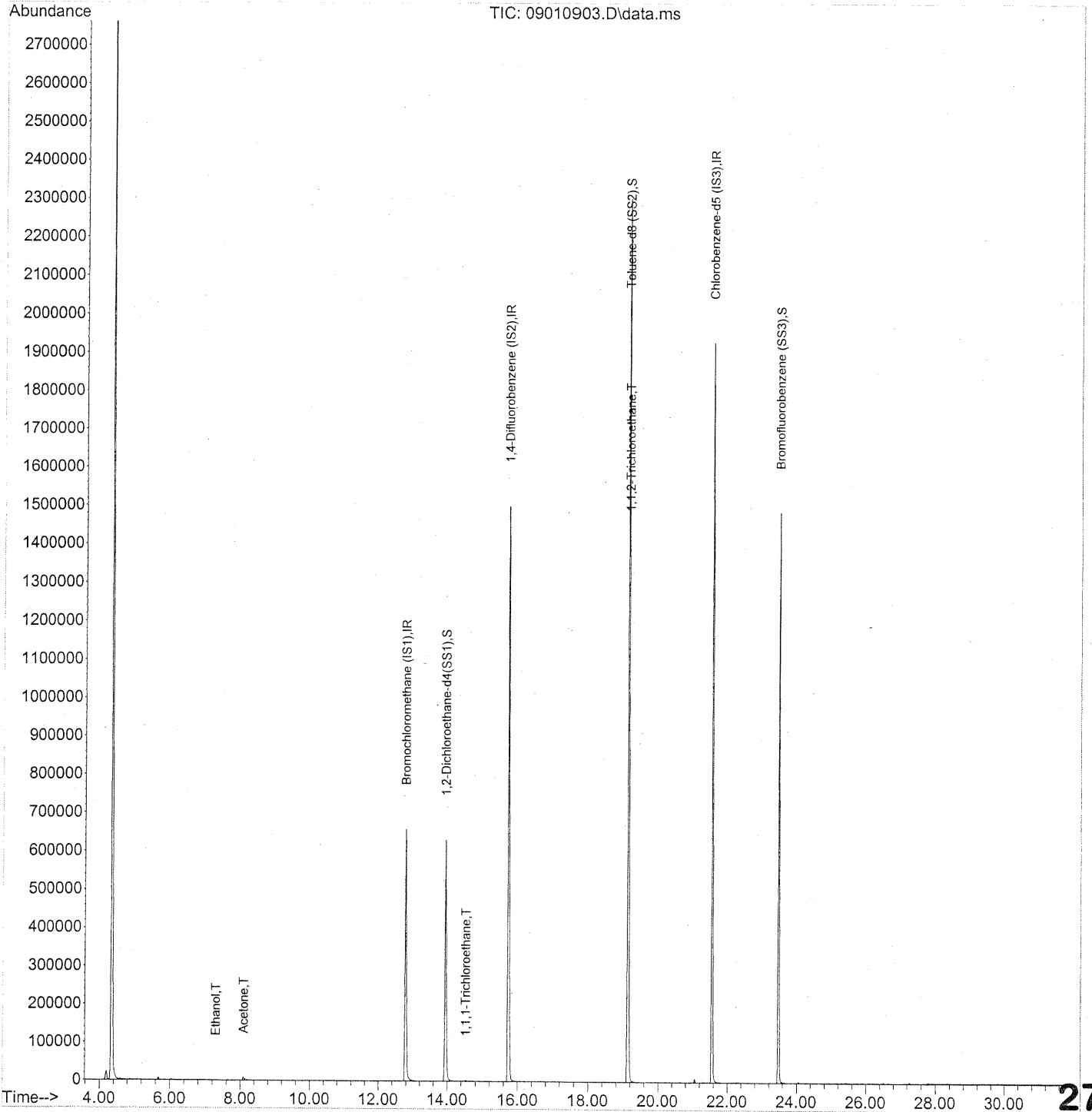
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:  Date: 9/1/09 277

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_09\01\
Data File : 09010903.D
Acq On : 1 Sep 2009 10:27
Operator : EM
Sample : TO-15 Method Blank (1000ml)
Misc : S20-08130905
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 11:08:28 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



Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010903.D
 Acq On : 1 Sep 2009 10:27
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 11:08:28 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	341575	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1743610	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	819072	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	623749	25.826	ng	-0.03
Spiked Amount	25.000			Recovery	=	103.32% ✓
57) Toluene-d8 (SS2)	19.14	98	2002261	25.714	ng	-0.02 ✓
Spiked Amount	25.000			Recovery	=	102.84% ✓
73) Bromofluorobenzene (SS3)	23.48	174	512736	23.251	ng	-0.01 ✓
Spiked Amount	25.000			Recovery	=	93.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.89	42	495	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.30	45	1386	0.074	ng	# 36
11) Acetonitrile	7.64	41	944	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	8.11	58	5957	0.311	ng	93
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	9.53	84	240	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	9.94	76	1350	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.		

EM 9/1/09

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010903.D
 Acq On : 1 Sep 2009 10:27
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 11:08:28 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

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	14.53	97	2504	0.079	ng	89
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	15.23	78	1558	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.74	84	769	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	19.16	97	162899	6.131 ng	#	7
58) Toluene	19.28	91	1106	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	596	N.D.		
67) m- & p-Xylenes	22.32	91	596	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.93	91	330	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	23.48	105	1053	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.43	105	577	N.D.		
78) 4-Ethyltoluene	24.48	105	718	N.D.		
79) 1,3,5-Trimethylbenzene	24.56	105	592	N.D.		

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010903.D
 Acq On : 1 Sep 2009 10:27
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 11:08:28 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0			N.D.
81) 2-Ethyltoluene	24.56	105	592			N.D.
82) 1,2,4-Trimethylbenzene	25.06	105	903			N.D.
83) n-Decane	25.15	57	324			N.D.
84) Benzyl Chloride	0.00	91	0			N.D.
85) 1,3-Dichlorobenzene	0.00	146	0			N.D.
86) 1,4-Dichlorobenzene	0.00	146	0			N.D.
87) sec-Butylbenzene	25.06	105	903			N.D.
88) 4-Isopropyltoluene (p-...	0.00	119	0			N.D.
89) 1,2,3-Trimethylbenzene	0.00	105	0			N.D.
90) 1,2-Dichlorobenzene	0.00	146	0			N.D.
91) d-Limonene	0.00	68	0			N.D.
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0			N.D.
93) n-Undecane	26.66	57	480			N.D.
94) 1,2,4-Trichlorobenzene	0.00	180	0			N.D.
95) Naphthalene	27.96	128	1867			N.D.
96) n-Dodecane	27.89	57	440			N.D.
97) Hexachlorobutadiene	0.00	225	0			N.D.
98) Cyclohexanone	0.00	55	0			N.D.
99) tert-Butylbenzene	0.00	119	0			N.D.
100) n-Butylbenzene	0.00	91	0			N.D.

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

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: P0902975

CAS Sample ID: P090902-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: 9/2/09

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: _____

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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: P0902975

CAS Sample ID: P090902-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: 9/2/09

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

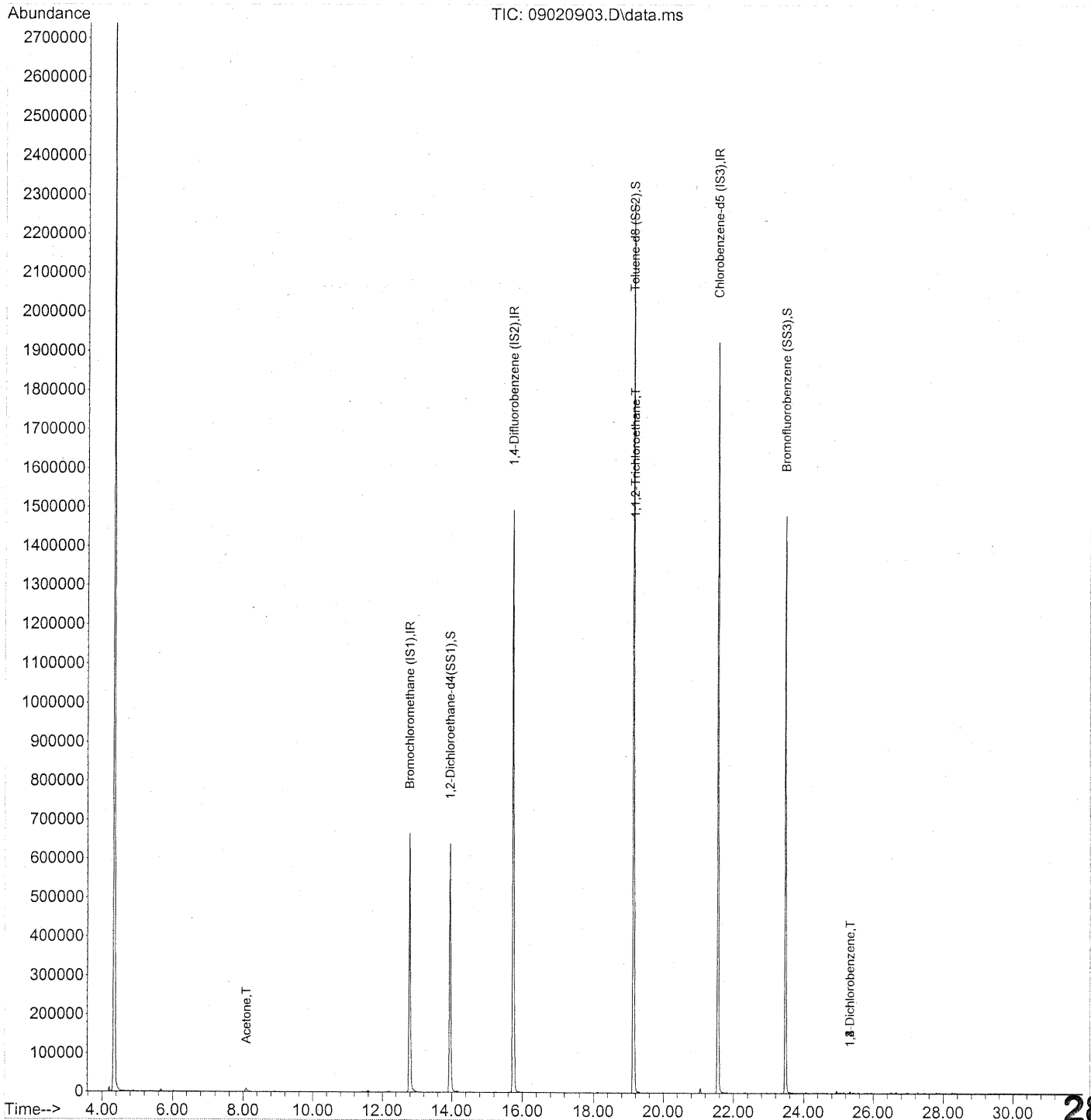
CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	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.

Data Path : J:\MS09\Data\2009_09\02\
Data File : 09020903.D
Acq On : 2 Sep 2009 7:40
Operator : EM
Sample : TO-15 Method Blank (1000ml)
Misc : S20-08130905
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 08:25:50 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA 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_09\02\
 Data File : 09020903.D
 Acq On : 2 Sep 2009 7:40
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 08:25:50 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	343734	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1753914	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	827179	25.000	ng	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 (...)	13.95	65	630587	25.945	ng	-0.03
Spiked Amount	25.000		Recovery	=	103.76%	✓
57) Toluene-d8 (SS2)	19.14	98	2002677	25.467	ng	-0.02
Spiked Amount	25.000		Recovery	=	101.88%	✓
73) Bromofluorobenzene (SS3)	23.48	174	514428	23.100	ng	-0.01
Spiked Amount	25.000		Recovery	=	92.40%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.89	42	971	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.32	45	350	N.D.		
11) Acetonitrile	7.63	41	679	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	8.09	58	5204	0.270	ng	# 78
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	9.54	84	452	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	9.94	76	1867	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	12.92	57	1425	N.D.		

em 9/2/09

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020903.D
 Acq On : 2 Sep 2009 7:40
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 08:25:50 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)
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	14.53	97	1225		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	2493		N.D.	
42) Carbon Tetrachloride	0.00	117	0		N.D.	
43) Cyclohexane	15.66	84	152		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...	16.85	57	618		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	161642	8.021 ng	FP #	7
58) Toluene	19.28	91	2188		N.D.	
59) 2-Hexanone	19.54	43	747		N.D.	
60) Dibromochloromethane	0.00	129	0		N.D.	
61) 1,2-Dibromoethane	0.00	107	0		N.D.	
62) n-Butyl Acetate	20.56	43	750		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	22.11	91	627		N.D.	
67) m- & p-Xylenes	22.31	91	3170		N.D.	
68) Bromoform	0.00	173	0		N.D.	
69) Styrene	0.00	104	0		N.D.	
70) o-Xylene	22.93	91	2620		N.D.	
71) n-Nonane	23.17	43	871		N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
74) Cumene	23.47	105	917		N.D.	
75) alpha-Pinene	0.00	93	0		N.D.	
76) n-Propylbenzene	24.26	91	1431		N.D.	
77) 3-Ethyltoluene	24.42	105	2109		N.D.	
78) 4-Ethyltoluene	24.48	105	711		N.D.	
79) 1,3,5-Trimethylbenzene	24.56	105	1221		N.D.	

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020903.D
 Acq On : 2 Sep 2009 7:40
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 08:25:50 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	24.79	105	771	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	2591	N.D.		
83) n-Decane	25.16	57	1312	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	3481	0.076	ng	98
86) 1,4-Dichlorobenzene	25.33	146	3481	0.072	ng	97
87) sec-Butylbenzene	25.57	105	418	N.D.		
88) 4-Isopropyltoluene (p-...	25.57	119	121	N.D.		
89) 1,2,3-Trimethylbenzene	25.57	105	418	N.D.		
90) 1,2-Dichlorobenzene	25.33	146	3481	0.076	ng	98
91) d-Limonene	25.74	68	592	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	1655	N.D.		
94) 1,2,4-Trichlorobenzene	27.82	180	114	N.D.		
95) Naphthalene	27.96	128	1911	N.D.		
96) n-Dodecane	27.89	57	1029	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	0.00	55	0	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		

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

QC SUMMARY FORMS

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: P0902975
 CAS Sample ID: P090901-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: 9/01/09
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	26.5	101	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	22.0	85	61-118	
74-87-3	Chloromethane	25.0	21.8	87	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	21.1	81	65-122	
75-01-4	Vinyl Chloride	25.3	21.2	84	57-132	
106-99-0	1,3-Butadiene	26.8	24.1	90	66-161	
74-83-9	Bromomethane	25.8	22.1	86	67-130	
75-00-3	Chloroethane	25.5	20.7	81	68-123	
64-17-5	Ethanol	130	109	84	50-155	
75-05-8	Acetonitrile	26.0	22.1	85	48-148	
107-02-8	Acrolein	26.3	24.7	94	67-138	
67-64-1	Acetone	132	107	81	59-121	
75-69-4	Trichlorofluoromethane	26.3	20.9	79	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	34.5	72	54-126	
107-13-1	Acrylonitrile	25.8	25.5	99	65-134	
75-35-4	1,1-Dichloroethene	27.5	22.1	80	70-123	
75-09-2	Methylene Chloride	26.8	20.8	78	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	25.3	94	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	23.2	84	69-126	
75-15-0	Carbon Disulfide	26.0	21.5	83	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	22.3	87	69-125	
75-34-3	1,1-Dichloroethane	26.5	22.6	85	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	22.7	86	72-132	
108-05-4	Vinyl Acetate	126	108	86	73-158	
78-93-3	2-Butanone (MEK)	26.8	25.5	95	68-126	

Verified By: _____ P _____ Date: 9/10/09 **291**

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

CAS Project ID: P0902975
CAS Sample ID: P090901-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: 9/01/09
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	23.2	86	69-124	
141-78-6	Ethyl Acetate	52.0	46.4	89	65-126	
110-54-3	n-Hexane	26.0	22.3	86	63-125	
67-66-3	Chloroform	27.5	22.4	81	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	23.7	89	65-124	
107-06-2	1,2-Dichloroethane	26.3	23.3	89	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	22.0	85	69-127	
71-43-2	Benzene	25.8	21.4	83	68-122	
56-23-5	Carbon Tetrachloride	26.3	21.8	83	68-137	
110-82-7	Cyclohexane	51.8	43.7	84	68-121	
78-87-5	1,2-Dichloropropane	26.0	22.6	87	69-128	
75-27-4	Bromodichloromethane	26.3	22.9	87	71-131	
79-01-6	Trichloroethene	25.8	20.8	81	72-122	
123-91-1	1,4-Dioxane	26.0	24.5	94	73-127	
80-62-6	Methyl Methacrylate	52.8	45.2	86	80-133	
142-82-5	n-Heptane	25.8	21.7	84	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	22.7	93	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	25.0	93	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	26.2	97	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	23.0	88	76-125	
108-88-3	Toluene	26.8	22.4	84	74-119	
591-78-6	2-Hexanone	27.0	24.6	91	64-118	
124-48-1	Dibromochloromethane	28.3	24.8	88	79-129	
106-93-4	1,2-Dibromoethane	26.3	24.1	92	79-125	
123-86-4	n-Butyl Acetate	27.5	25.3	92	70-136	

Verified By: _____ Date: 9/10/09 **292**

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: P0902975

CAS Sample ID: P090901-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: 9/01/09

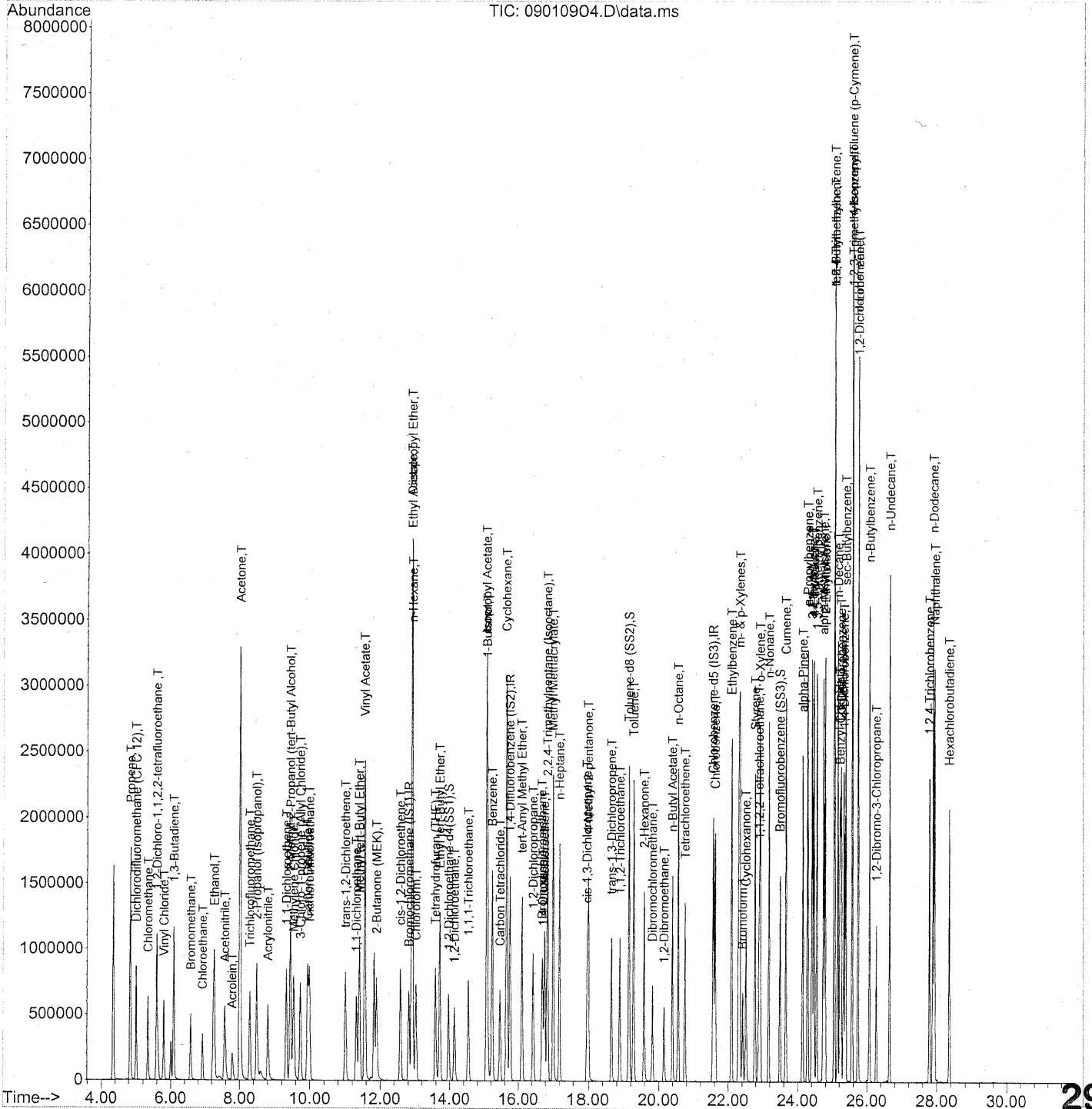
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	23.4	89	75-126	
127-18-4	Tetrachloroethene	25.3	21.0	83	72-125	
108-90-7	Chlorobenzene	26.5	22.2	84	74-121	
100-41-4	Ethylbenzene	26.3	22.8	87	76-120	
179601-23-1	m,p-Xylenes	51.5	44.7	87	75-120	
75-25-2	Bromoform	26.5	22.8	86	76-143	
100-42-5	Styrene	26.3	23.8	90	78-124	
95-47-6	o-Xylene	26.0	22.8	88	76-121	
111-84-2	n-Nonane	25.8	23.5	91	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	24.4	90	77-126	
98-82-8	Cumene	25.3	21.8	86	78-125	
80-56-8	alpha-Pinene	24.8	21.4	86	78-125	
103-65-1	n-Propylbenzene	25.3	22.0	87	80-127	
622-96-8	4-Ethyltoluene	26.3	22.6	86	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	23.0	87	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	23.1	91	76-123	
100-44-7	Benzyl Chloride	26.8	24.9	93	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	23.0	88	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	22.1	84	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	22.4	87	75-124	
5989-27-5	d-Limonene	26.5	23.4	88	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	25.6	95	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	24.1	88	70-139	
91-20-3	Naphthalene	25.0	22.7	91	69-141	
87-68-3	Hexachlorobutadiene	26.8	23.5	88	68-138	

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010904.D
 Acq On : 1 Sep 2009 11:09
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 14:36:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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_09\01\
 Data File : 09010904.D
 Acq On : 1 Sep 2009 11:09
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 14:36:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	358774	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1819497	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	859420	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	650969	25.661	ng	-0.02	✓
Spiked Amount	25.000		Recovery	=	102.64%		
57) Toluene-d8 (SS2)	19.15	98	2077981	25.434	ng	-0.01	✓
Spiked Amount	25.000		Recovery	=	101.72%		
73) Bromofluorobenzene (SS3)	23.49	174	548928	23.724	ng	0.00	✓
Spiked Amount	25.000		Recovery	=	94.88%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	832806	26.462	ng	97
3) Dichlorodifluoromethan...	5.00	85	987559	21.983	ng	99
4) Chloromethane	5.34	50	912131	21.785	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	499717	21.050	ng	100
6) Vinyl Chloride	5.80	62	875885	21.207	ng	99
7) 1,3-Butadiene	6.09	54	708290	24.143	ng	97
8) Bromomethane	6.59	94	477034	22.088	ng	100
9) Chloroethane	6.93	64	425010	20.742	ng	99
10) Ethanol	7.27	45	2151352m	108.975	ng	
11) Acetonitrile	7.58	41	1067028	22.147	ng	99
12) Acrolein	7.79	56	317376	24.652	ng	98
13) Acetone	8.01	58	2154871	107.265	ng	93
14) Trichlorofluoromethane	8.29	101	802170	20.881	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	1896876m	34.478	ng	
16) Acrylonitrile	8.81	53	742830	25.457	ng	99
17) 1,1-Dichloroethene	9.33	96	498745	22.123	ng	93
18) 2-Methyl-2-Propanol (t...	9.45	59	2349125	42.059	ng	98
19) Methylene Chloride	9.54	84	520199	20.754	ng	85
20) 3-Chloro-1-propene (Al...	9.73	41	849995	25.289	ng	87
21) Trichlorotrifluoroethane	9.99	151	398166	23.157	ng	95
22) Carbon Disulfide	9.94	76	1902036	21.504	ng	99
23) trans-1,2-Dichloroethene	11.01	61	771635	22.304	ng	91
24) 1,1-Dichloroethane	11.32	63	958857	22.630	ng	99
25) Methyl tert-Butyl Ether	11.40	73	1555379	22.654	ng	95
26) Vinyl Acetate	11.56	86	468580	107.695	ng	# 59
27) 2-Butanone (MEK)	11.89	72	357431	25.521	ng	# 79
28) cis-1,2-Dichloroethene	12.58	61	750331	23.242	ng	92
29) Diisopropyl Ether	12.91	87	450814	22.673	ng	# 61
30) Ethyl Acetate	12.90	61	421343	46.393	ng	95
31) n-Hexane	12.93	57	987026	22.295	ng	9

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Em 9/1/09

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010904.D
 Acq On : 1 Sep 2009 11:09
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 14:36:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	829564	22.388	ng	100
34) Tetrahydrofuran (THF)	13.58	72	345000	23.694	ng	# 84
35) Ethyl tert-Butyl Ether	13.71	87	616387	21.728	ng	# 85
36) 1,2-Dichloroethane	14.13	62	660416	23.292	ng	99
38) 1,1,1-Trichloroethane	14.54	97	729158	22.034	ng	99
39) Isopropyl Acetate	15.07	61	730450	49.190	ng	# 78
40) 1-Butanol	15.09	56	1181690	50.118	ng	82
41) Benzene	15.23	78	2095392	21.414	ng	99
42) Carbon Tetrachloride	15.46	117	596281	21.801	ng	99
43) Cyclohexane	15.66	84	1657066	43.728	ng	86
44) tert-Amyl Methyl Ether	16.10	73	1513144	22.002	ng	97
45) 1,2-Dichloropropane	16.43	63	542079	22.583	ng	98
46) Bromodichloromethane	16.70	83	656689	22.941	ng	99
47) Trichloroethene	16.77	130	516657	20.796	ng	99
48) 1,4-Dioxane	16.71	88	426825	24.525	ng	87
49) 2,2,4-Trimethylpentane...	16.86	57	2427093	21.552	ng	95
50) Methyl Methacrylate	17.02	100	441479	45.152	ng	# 88
51) n-Heptane	17.21	71	565085	21.694	ng	93
52) cis-1,3-Dichloropropene	17.95	75	820097	22.674	ng	100
53) 4-Methyl-2-pentanone	17.98	58	529631	25.048	ng	94
54) trans-1,3-Dichloropropene	18.64	75	829270	26.208	ng	100
55) 1,1,2-Trichloroethane	18.89	97	480941	23.006	ng	98
58) Toluene	19.28	91	2222336	22.438	ng	100
59) 2-Hexanone	19.58	43	1265292	24.581	ng	97
60) Dibromochloromethane	19.82	129	523733	24.765	ng	100
61) 1,2-Dibromoethane	20.15	107	536258	24.058	ng	100
62) n-Butyl Acetate	20.39	43	1418163	25.250	ng	97
63) n-Octane	20.56	57	515607	23.355	ng	90
64) Tetrachloroethene	20.75	166	514920	20.951	ng	99
65) Chlorobenzene	21.62	112	1352541	22.237	ng	100
66) Ethylbenzene	22.09	91	2437211	22.793	ng	98
67) m- & p-Xylenes	22.33	91	3791351	44.724	ng	99
68) Bromoform	22.41	173	418161	22.779	ng	100
69) Styrene	22.77	104	1492906	23.825	ng	99
70) o-Xylene	22.92	91	1941693	22.768	ng	98
71) n-Nonane	23.17	43	1205445	23.472	ng	91
72) 1,1,2,2-Tetrachloroethane	22.89	83	893261	24.383	ng	99
74) Cumene	23.65	105	2411885	21.812	ng	98
75) alpha-Pinene	24.15	93	1169070	21.429	ng	100
76) n-Propylbenzene	24.28	91	3010985	22.032	ng	99
77) 3-Ethyltoluene	24.41	105	2387498	23.048	ng	98
78) 4-Ethyltoluene	24.46	105	2353315	22.598	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	1978966	22.982	ng	99

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Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010904.D
 Acq On : 1 Sep 2009 11:09
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 14:36:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

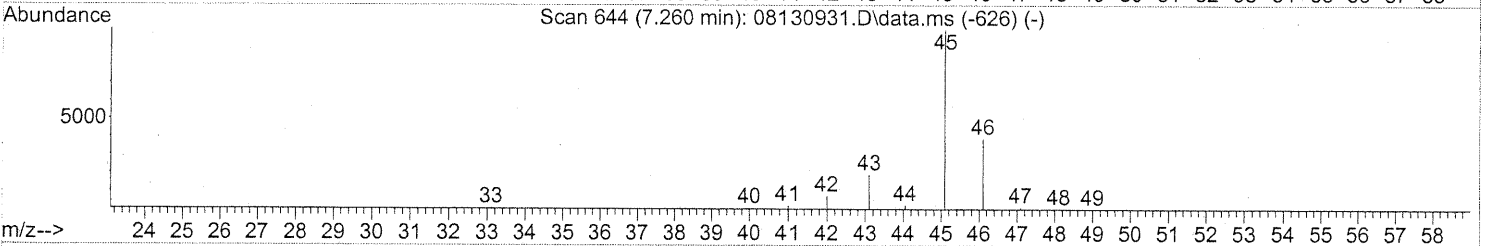
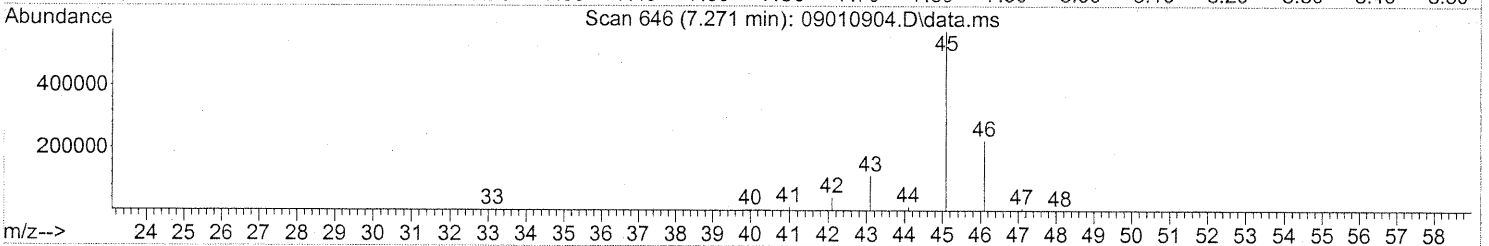
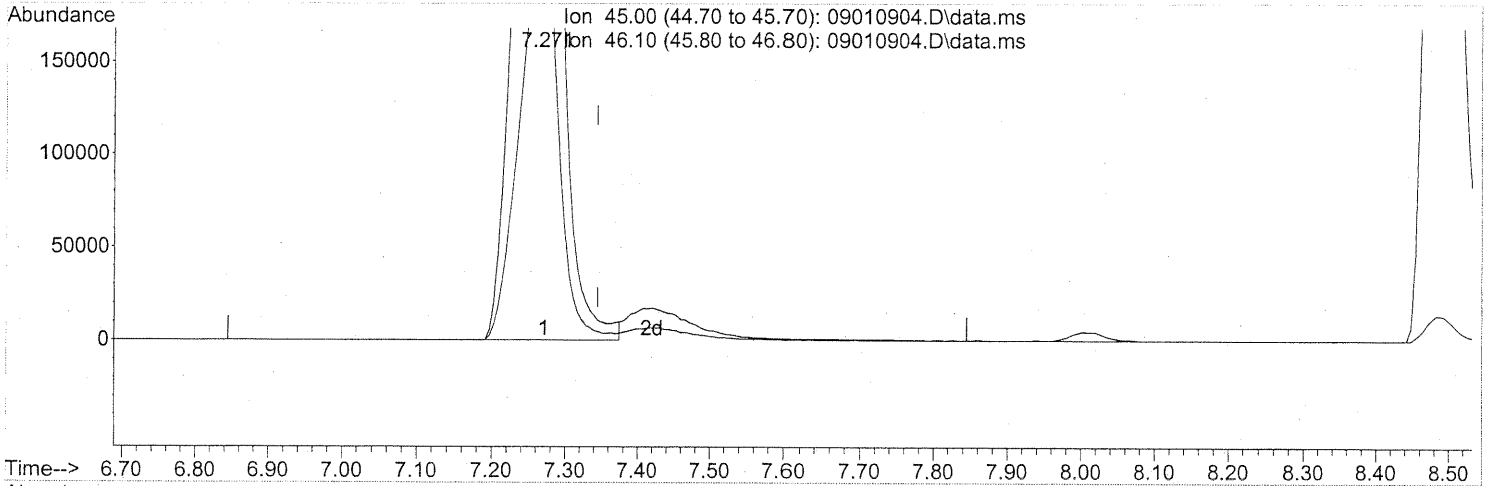
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	1066931	22.835	ng	99
81) 2-Ethyltoluene	24.79	105	2348078	21.950	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2107387	23.050	ng	100
83) n-Decane	25.15	57	1223869	22.999	ng	94
84) Benzyl Chloride	25.21	91	1761152	24.899	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1087679	22.980	ng	99
86) 1,4-Dichlorobenzene	25.33	146	1110934	22.121	ng	100
87) sec-Butylbenzene	25.38	105	2677847	22.227	ng	99
88) 4-Isopropyltoluene (p-...	25.56	119	2555311	22.137	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2113453	22.870	ng	98
90) 1,2-Dichlorobenzene	25.75	146	1064625	22.401	ng	100
91) d-Limonene	25.74	68	877088	23.448	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.26	157	367532	25.608	ng	93
93) n-Undecane	26.65	57	1299314	23.629	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	801572	24.142	ng	99
95) Naphthalene	27.94	128	2783728	22.692	ng	99
96) n-Dodecane	27.89	57	1336191	21.709	ng	95
97) Hexachlorobutadiene	28.36	225	445421	23.493	ng	100
98) Cyclohexanone	22.51	55	650184	20.845	ng	95
99) tert-Butylbenzene	25.05	119	2043166	22.534	ng	99
100) n-Butylbenzene	26.06	91	2222538	23.178	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010904.D
 Acq On : 1 Sep 2009 11:09
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 14:35:17 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



TIC: 09010904.D\data.ms

(10) Ethanol (T)
 7.271min (-0.074) 103.33ng
 response 2039868

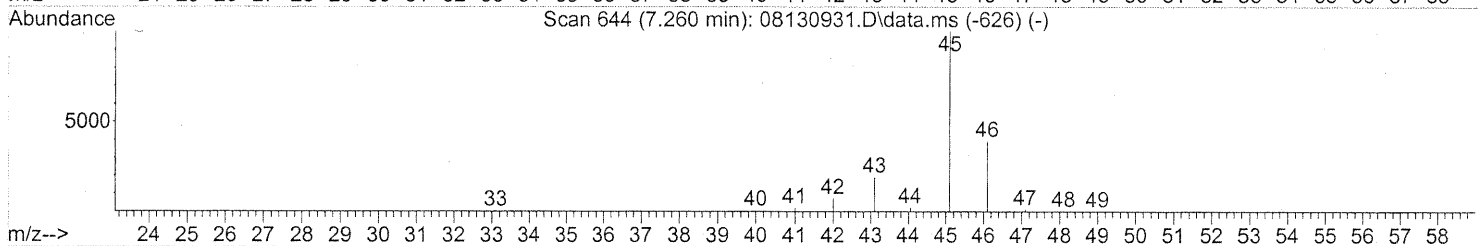
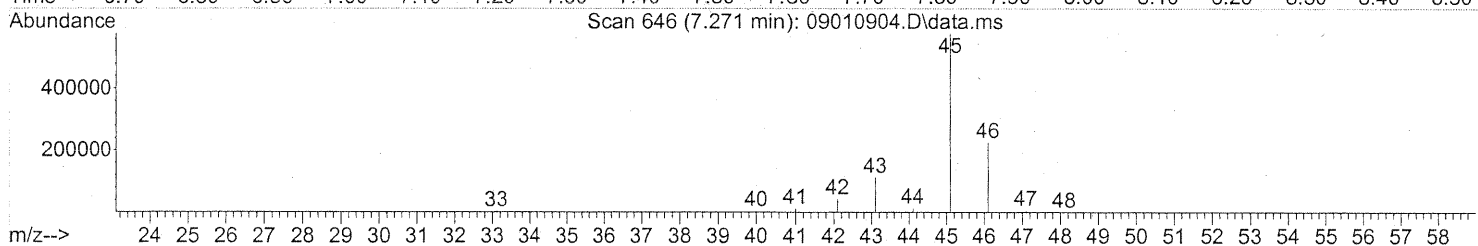
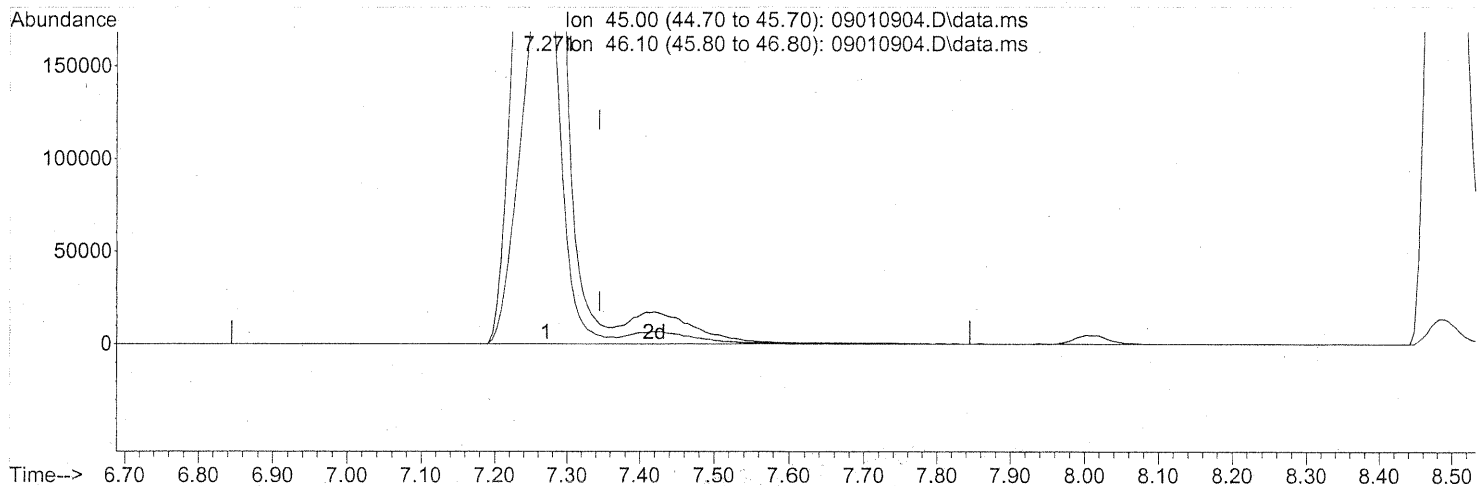
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010904.D
 Acq On : 1 Sep 2009 11:09
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 14:35:17 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



TIC: 09010904.D\data.ms

(10) Ethanol (T)

7.271min (-0.074) 108.98ng m
 response 2151352

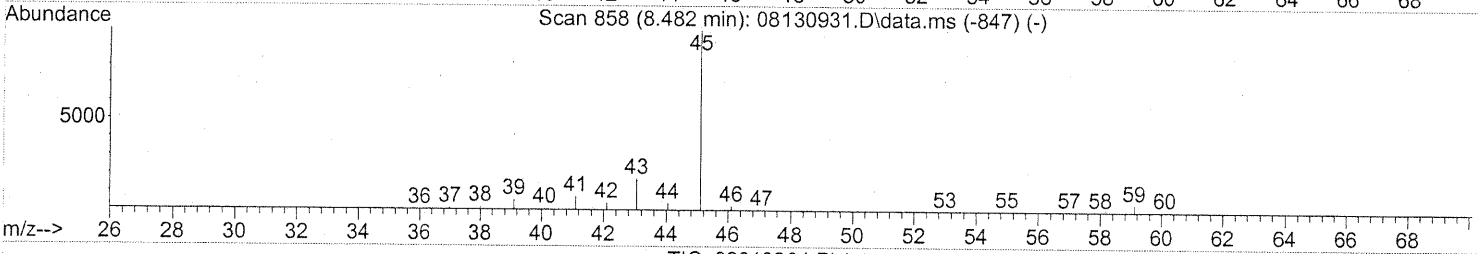
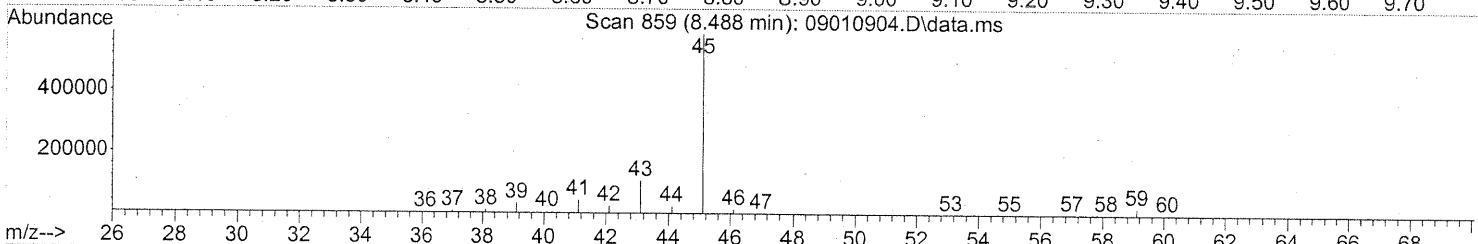
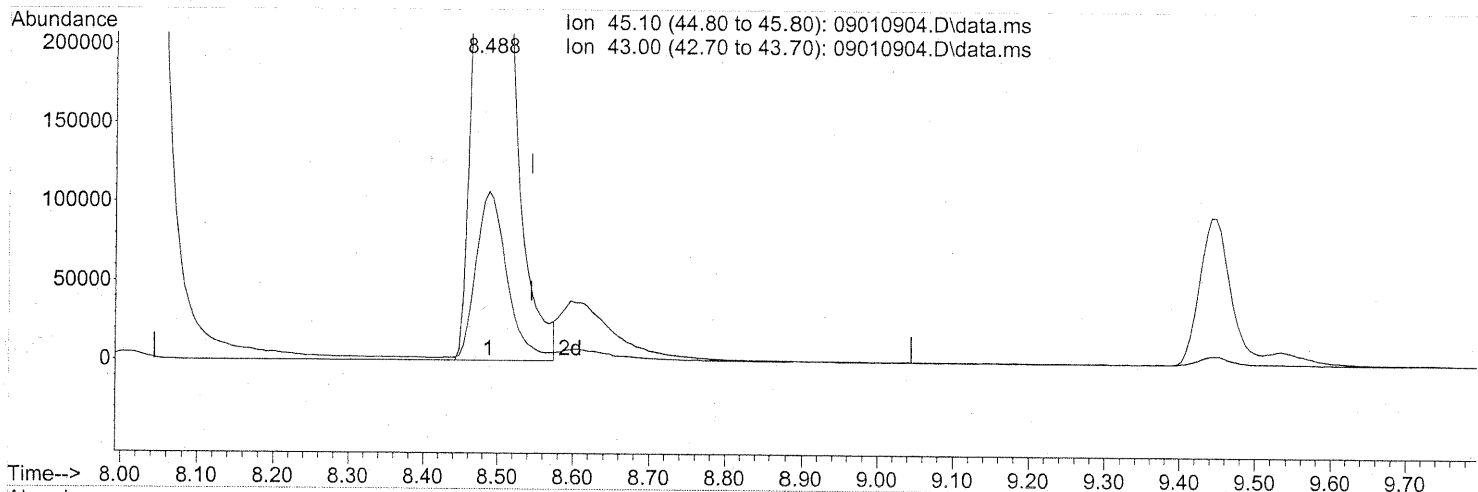
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.16
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
Em 8 9/1/09
E 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010904.D
 Acq On : 1 Sep 2009 11:09
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 14:35:17 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



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

8.488min (-0.057) 30.91ng

response 1700351

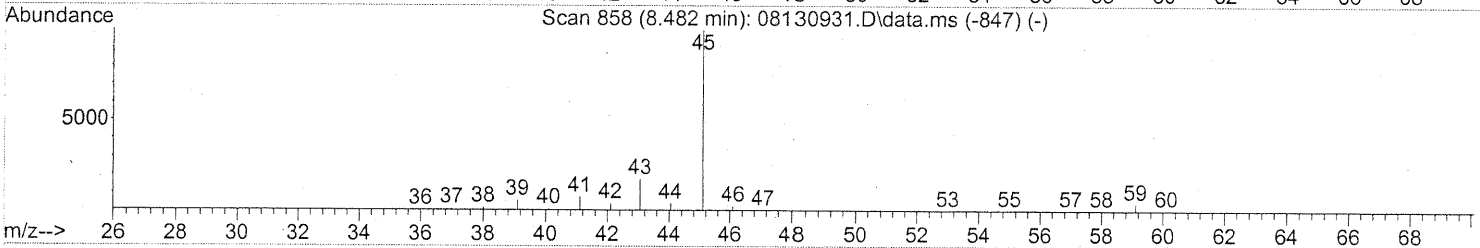
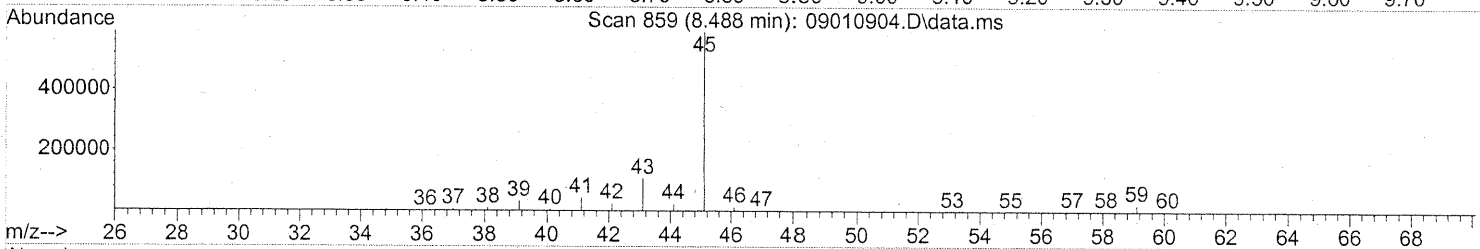
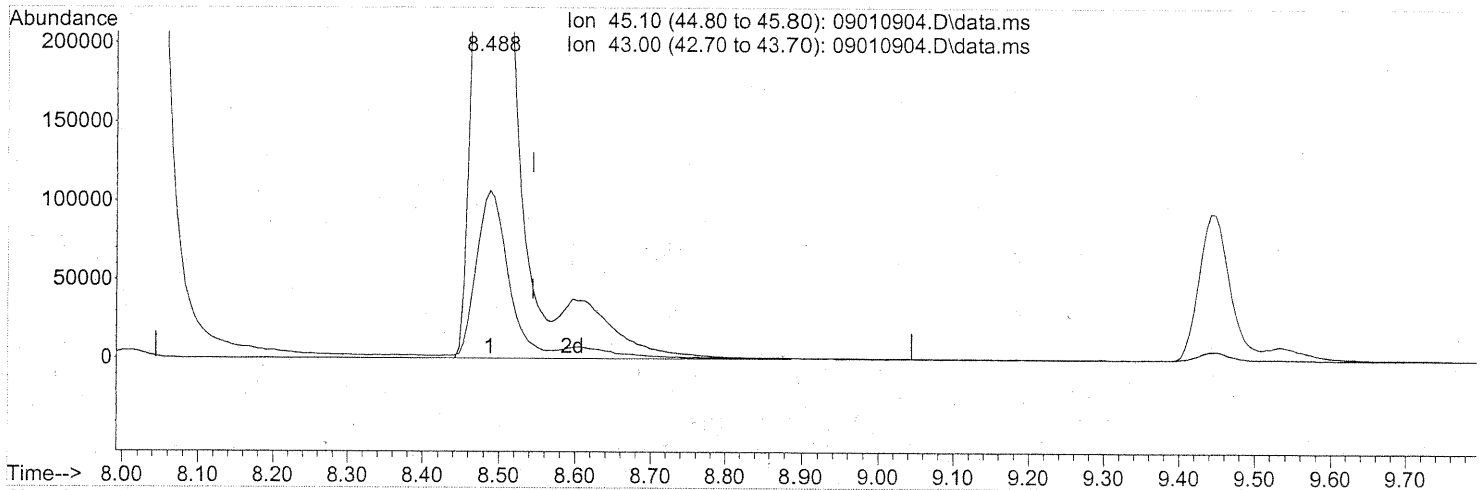
PT

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010904.D
 Acq On : 1 Sep 2009 11:09
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 14:35:17 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



TIC: 09010904.D\data.ms

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

8.488min (-0.057) 34.48ng m

response 1896876

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	15.72
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

em 9/1/09

R 9/2/09

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: P0902975
 CAS Sample ID: P090902-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: 9/02/09
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	30.3	115	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	24.5	94	61-118	
74-87-3	Chloromethane	25.0	24.5	98	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	23.7	91	65-122	
75-01-4	Vinyl Chloride	25.3	23.8	94	57-132	
106-99-0	1,3-Butadiene	26.8	27.2	101	66-161	
74-83-9	Bromomethane	25.8	24.5	95	67-130	
75-00-3	Chloroethane	25.5	24.2	95	68-123	
64-17-5	Ethanol	130	126	97	50-155	
75-05-8	Acetonitrile	26.0	24.8	95	48-148	
107-02-8	Acrolein	26.3	28.3	108	67-138	
67-64-1	Acetone	132	121	92	59-121	
75-69-4	Trichlorofluoromethane	26.3	23.7	90	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	37.7	79	54-126	
107-13-1	Acrylonitrile	25.8	28.6	111	65-134	
75-35-4	1,1-Dichloroethene	27.5	25.0	91	70-123	
75-09-2	Methylene Chloride	26.8	23.3	87	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	28.1	104	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	26.2	95	69-126	
75-15-0	Carbon Disulfide	26.0	24.2	93	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	25.1	98	69-125	
75-34-3	1,1-Dichloroethane	26.5	25.4	96	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	25.6	97	72-132	
108-05-4	Vinyl Acetate	126	147	117	73-158	
78-93-3	2-Butanone (MEK)	26.8	28.8	107	68-126	

Verified By: _____

Date: 9/10/09

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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

CAS Project ID: P0902975
 CAS Sample ID: P090902-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:

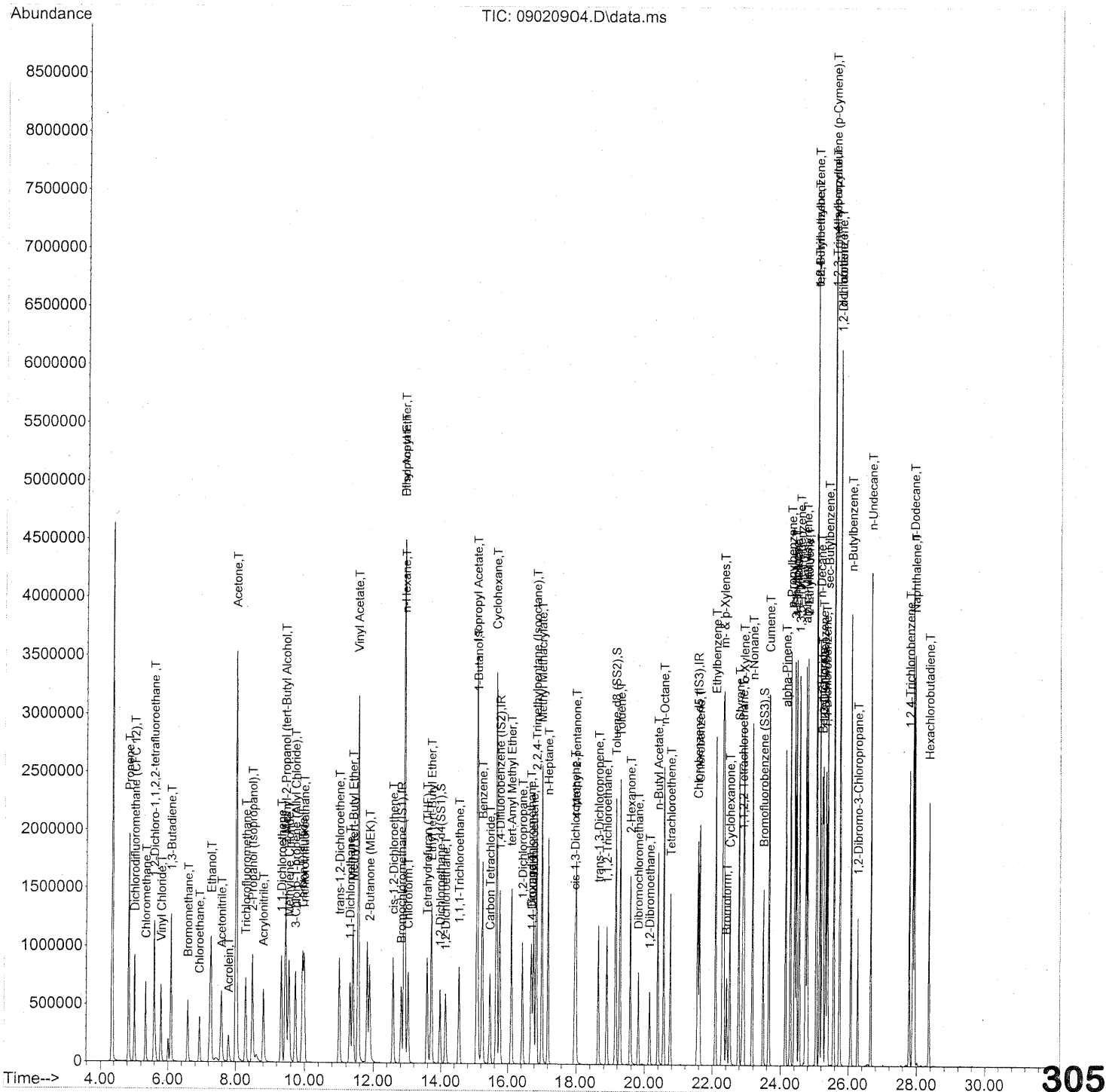
Date Collected: NA
Date Received: NA
Date Analyzed: 9/02/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount	Result	% Recovery	CAS Acceptance	Data Qualifier
		ng	ng		Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	26.1	97	69-124	
141-78-6	Ethyl Acetate	52.0	53.0	102	65-126	
110-54-3	n-Hexane	26.0	25.0	96	63-125	
67-66-3	Chloroform	27.5	25.1	91	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	26.8	101	65-124	
107-06-2	1,2-Dichloroethane	26.3	26.2	100	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	24.8	95	69-127	
71-43-2	Benzene	25.8	24.0	93	68-122	
56-23-5	Carbon Tetrachloride	26.3	25.5	97	68-137	
110-82-7	Cyclohexane	51.8	49.4	95	68-121	
78-87-5	1,2-Dichloropropane	26.0	25.5	98	69-128	
75-27-4	Bromodichloromethane	26.3	26.2	100	71-131	
79-01-6	Trichloroethene	25.8	23.6	91	72-122	
123-91-1	1,4-Dioxane	26.0	27.7	107	73-127	
80-62-6	Methyl Methacrylate	52.8	51.4	97	80-133	
142-82-5	n-Heptane	25.8	24.4	95	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	25.6	104	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	28.6	107	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	29.6	110	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	26.0	100	76-125	
108-88-3	Toluene	26.8	25.4	95	74-119	
591-78-6	2-Hexanone	27.0	28.6	106	64-118	
124-48-1	Dibromochloromethane	28.3	28.5	101	79-129	
106-93-4	1,2-Dibromoethane	26.3	27.2	103	79-125	
123-86-4	n-Butyl Acetate	27.5	31.1	113	70-136	

Verified By: _____ Date: 9/02/09 **303**

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020904.D
 Acq On : 2 Sep 2009 8:21
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08240914
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 02 09:41:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020904.D
 Acq On : 2 Sep 2009 8:21
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08240914
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 02 09:41:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : 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	344020	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.76	114	1749649	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.56	82	823650	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	622825	25.604	ng	-0.02
Spiked Amount	25.000		Recovery	=	102.40%	✓
57) Toluene-d8 (SS2)	19.15	98	2002016	25.568	ng	-0.01
Spiked Amount	25.000		Recovery	=	102.28%	✓
73) Bromofluorobenzene (SS3)	23.49	174	525881	23.715	ng	0.00
Spiked Amount	25.000		Recovery	=	94.84%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	913773	30.280	ng	97
3) Dichlorodifluoromethan...	5.01	85	1053795	24.463	ng	99
4) Chloromethane	5.34	50	983098	24.487	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	538493	23.656	ng	99
6) Vinyl Chloride	5.80	62	943514	23.824	ng	99
7) 1,3-Butadiene	6.09	54	765650	27.218	ng	96
8) Bromomethane	6.59	94	507787	24.520	ng	99
9) Chloroethane	6.93	64	474755	24.164	ng	100
10) Ethanol	7.27	45	2386702m	126.082	ng	
11) Acetonitrile	7.58	41	1145242	24.790	ng	100
12) Acrolein	7.79	56	348789	28.253	ng	98
13) Acetone	8.01	58	2324535	120.673	ng	94
14) Trichlorofluoromethane	8.29	101	872597	23.688	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	1990069m	37.724	ng	
16) Acrylonitrile	8.81	53	801024	28.629	ng	99
17) 1,1-Dichloroethene	9.33	96	540604	25.008	ng	94
18) 2-Methyl-2-Propanol (t...	9.45	59	2785641	52.013	ng	98
19) Methylene Chloride	9.54	84	560649	23.327	ng	85
20) 3-Chloro-1-propene (Al...	9.73	41	904050	28.050	ng	88
21) Trichlorotrifluoroethane	9.98	151	431218	26.155	ng	95
22) Carbon Disulfide	9.94	76	2049049	24.159	ng	98
23) trans-1,2-Dichloroethene	11.01	61	832065	25.082	ng	91
24) 1,1-Dichloroethane	11.32	63	1030493	25.364	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1683313	25.569	ng	95
26) Vinyl Acetate	11.56	86	613170	146.970	ng	# 60
27) 2-Butanone (MEK)	11.89	72	386607	28.788	ng	# 78
28) cis-1,2-Dichloroethene	12.58	61	808362	26.113	ng	92
29) Diisopropyl Ether	12.91	87	487732	25.581	ng	# 61
30) Ethyl Acetate	12.91	61	461615	53.007	ng	94
31) n-Hexane	12.93	57	1062298	25.024	ng	95

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EM 9/2/09

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020904.D
 Acq On : 2 Sep 2009 8:21
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08240914
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 02 09:41:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : 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	891641	25.096	ng	100
34) Tetrahydrofuran (THF)	13.58	72	374852	26.848	ng #	85
35) Ethyl tert-Butyl Ether	13.71	87	663703	24.399	ng #	85
36) 1,2-Dichloroethane	14.13	62	712736	26.215	ng	99
38) 1,1,1-Trichloroethane	14.54	97	788721	24.785	ng	99
39) Isopropyl Acetate	15.07	61	797224	55.830	ng #	76
40) 1-Butanol	15.09	56	1358203	59.904	ng	84
41) Benzene	15.23	78	2256021	23.976	ng	99
42) Carbon Tetrachloride	15.46	117	670370	25.488	ng	99
43) Cyclohexane	15.66	84	1799902	49.394	ng	87
44) tert-Amyl Methyl Ether	16.10	73	1639730	24.794	ng	98
45) 1,2-Dichloropropane	16.43	63	587653	25.459	ng	99
46) Bromodichloromethane	16.70	83	720032	26.158	ng	98
47) Trichloroethene	16.77	130	562937	23.563	ng	100
48) 1,4-Dioxane	16.72	88	463743	27.710	ng	87
49) 2,2,4-Trimethylpentane...	16.86	57	2621098	24.204	ng	95
50) Methyl Methacrylate	17.02	100	482927	51.363	ng #	87
51) n-Heptane	17.21	71	611514	24.413	ng	93
52) cis-1,3-Dichloropropene	17.95	75	889118	25.564	ng	100
53) 4-Methyl-2-pentanone	17.98	58	581205	28.584	ng	95
54) trans-1,3-Dichloropropene	18.64	75	900117	29.583	ng	100
55) 1,1,2-Trichloroethane	18.88	97	523404	26.037	ng	98
58) Toluene	19.28	91	2407104	25.359	ng	100
59) 2-Hexanone	19.58	43	1412454	28.632	ng	98
60) Dibromochloromethane	19.82	129	577442	28.491	ng	100
61) 1,2-Dibromoethane	20.15	107	581484	27.219	ng	99
62) n-Butyl Acetate	20.39	43	1673152	31.084	ng	98
63) n-Octane	20.56	57	555297	26.245	ng	91
64) Tetrachloroethene	20.76	166	561956	23.858	ng	99
65) Chlorobenzene	21.62	112	1477674	25.350	ng	100
66) Ethylbenzene	22.09	91	2660352	25.960	ng	99
67) m- & p-Xylenes	22.33	91	4133878	50.883	ng	99
68) Bromoform	22.41	173	463175	26.327	ng	100
69) Styrene	22.77	104	1632986	27.192	ng	100
70) o-Xylene	22.92	91	2123152	25.977	ng	98
71) n-Nonane	23.17	43	1302904	26.471	ng	92
72) 1,1,2,2-Tetrachloroethane	22.89	83	964265	27.465	ng	100
74) Cumene	23.66	105	2616000	24.686	ng	98
75) alpha-Pinene	24.15	93	1280173	24.485	ng	100
76) n-Propylbenzene	24.28	91	3278360	25.031	ng	99
77) 3-Ethyltoluene	24.41	105	2599610	26.185	ng	98
78) 4-Ethyltoluene	24.46	105	2574466	25.795	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	2162294	26.202	ng	99

307

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020904.D
 Acq On : 2 Sep 2009 8:21
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08240914
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 02 09:41:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

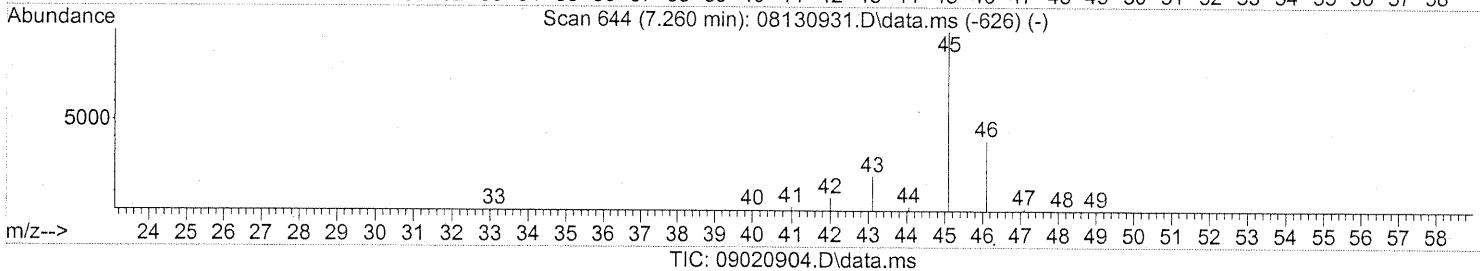
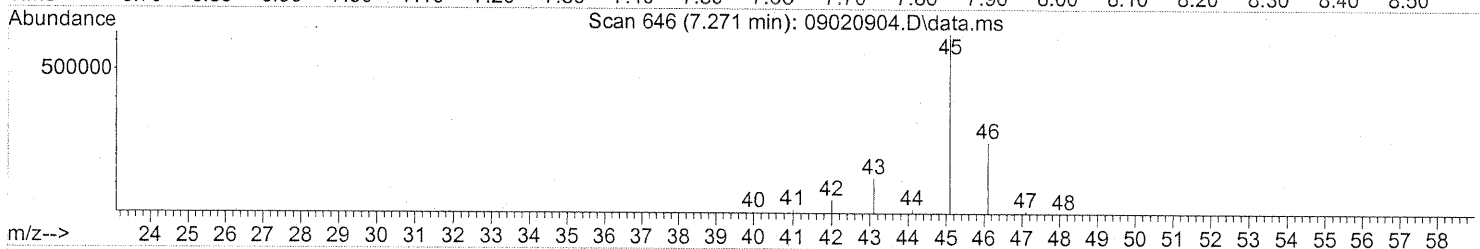
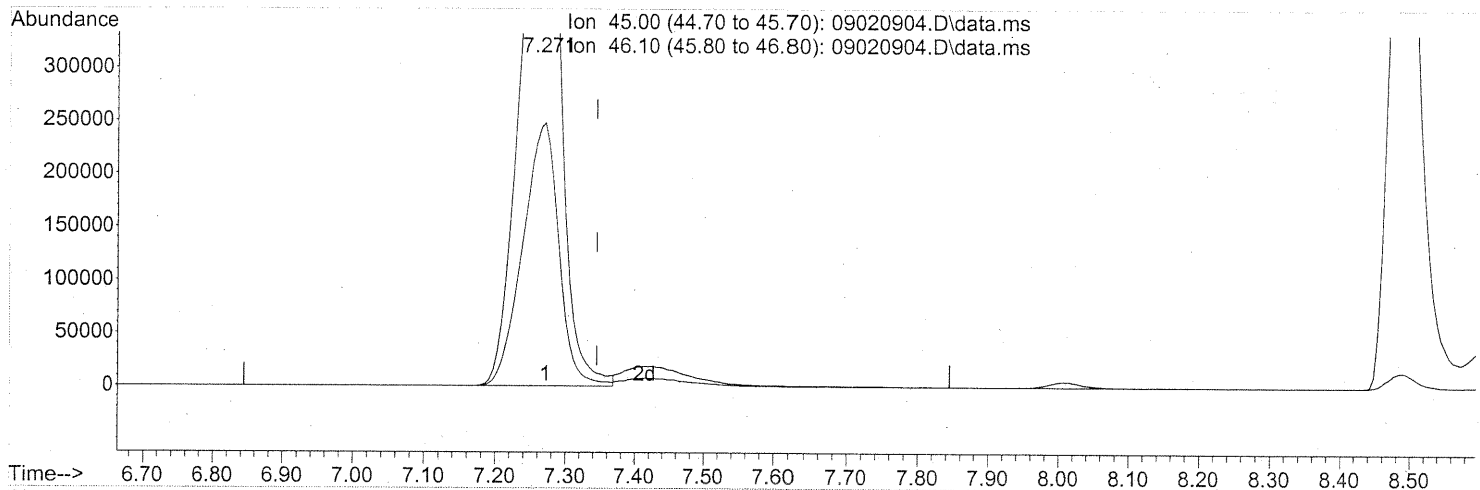
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	1204684	26.903	ng	98
81) 2-Ethyltoluene	24.79	105	2559759	24.968	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2312374	26.391	ng	100
83) n-Decane	25.15	57	1330580	26.090	ng	94
84) Benzyl Chloride	25.22	91	1984128	29.269	ng	98
85) 1,3-Dichlorobenzene	25.25	146	1186998	26.168	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1207296	25.084	ng	99
87) sec-Butylbenzene	25.38	105	2911615	25.217	ng	99
88) 4-Isopropyltoluene (p-...	25.56	119	2808158	25.384	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2328165	26.288	ng	98
90) 1,2-Dichlorobenzene	25.75	146	1163172	25.538	ng	100
91) d-Limonene	25.74	68	991961	27.671	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.26	157	399518	29.046	ng	93
93) n-Undecane	26.65	57	1414463	26.841	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	872426	27.417	ng	100
95) Naphthalene	27.94	128	3081465	26.210	ng	100
96) n-Dodecane	27.89	57	1460034	24.751	ng	95
97) Hexachlorobutadiene	28.36	225	482642	26.562	ng	99
98) Cyclohexanone	22.51	55	833987	27.898	ng	95
99) tert-Butylbenzene	25.05	119	2236738	25.740	ng	99
100) n-Butylbenzene	26.06	91	2433936	26.485	ng	100

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020904.D
 Acq On : 2 Sep 2009 8:21
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08240914
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 02 09:29:23 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)
 7.271min (-0.074) 119.25ng
 response 2257347

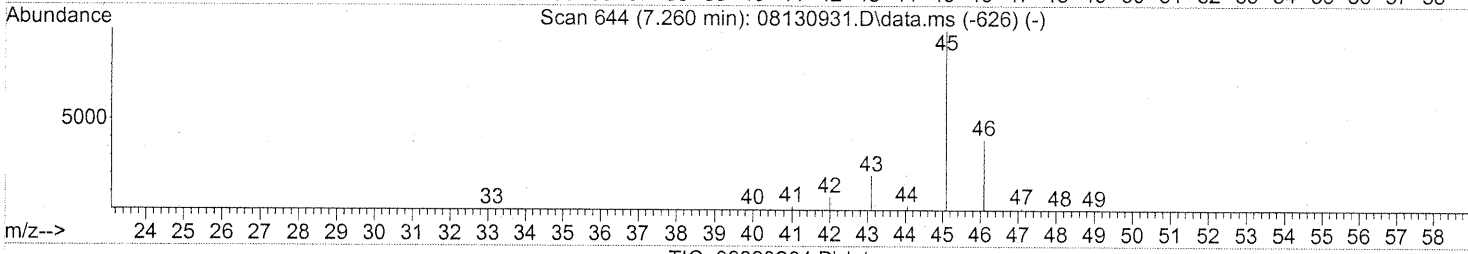
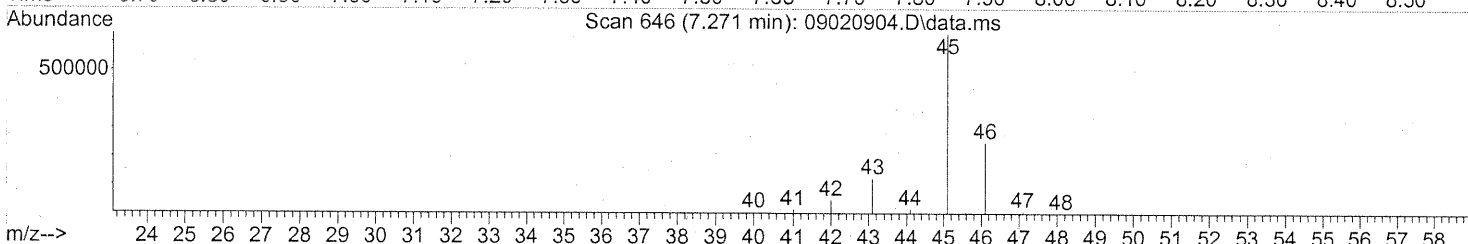
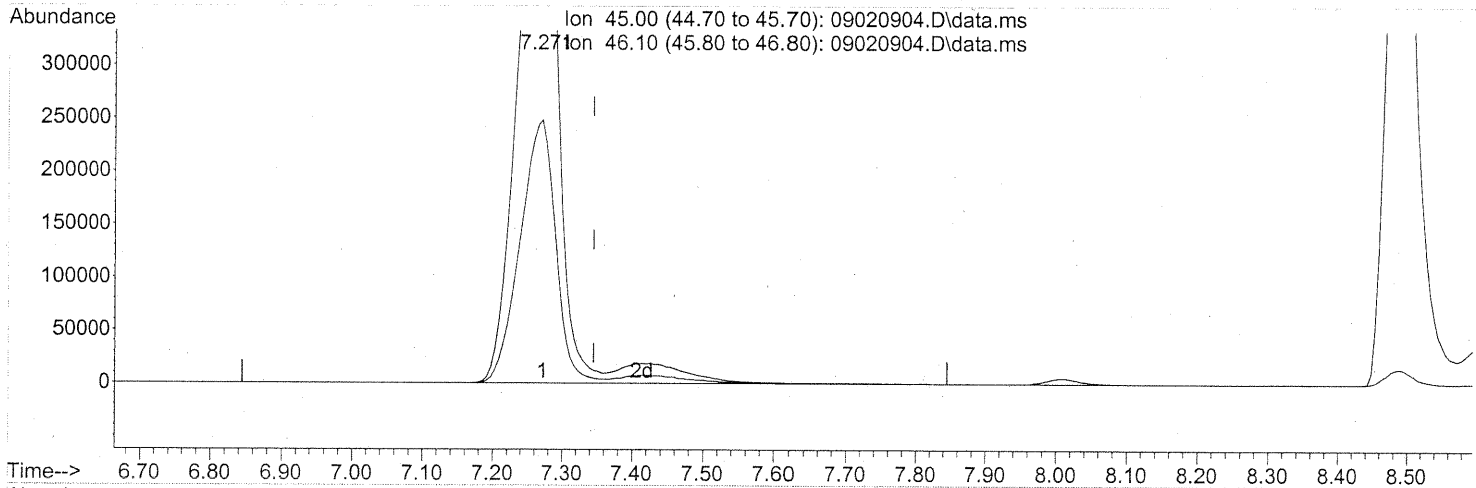
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020904.D
 Acq On : 2 Sep 2009 8:21
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08240914
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 02 09:29:23 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)

7.271min (-0.074) 126.08ng m

response 2386702

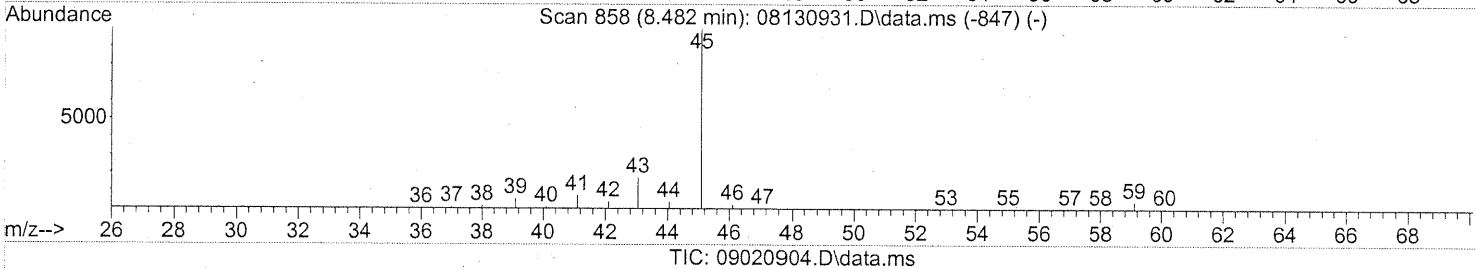
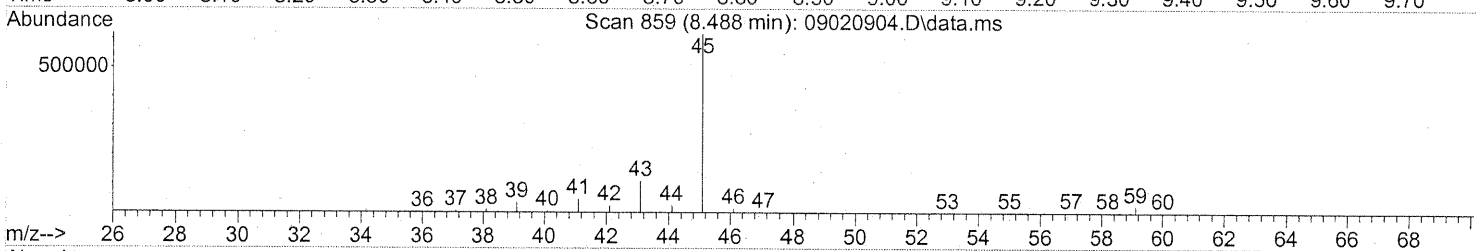
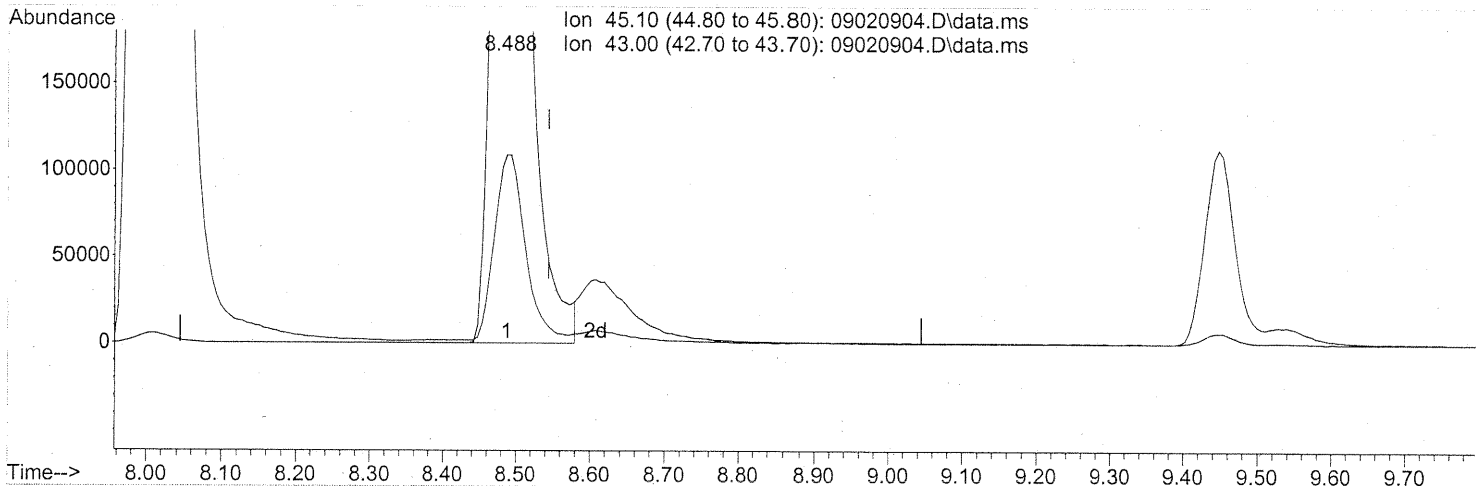
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.92
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
 em 9/2/09
 M 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020904.D
 Acq On : 2 Sep 2009 8:21
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08240914
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 02 09:29:23 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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) 34.22ng

response 1805368

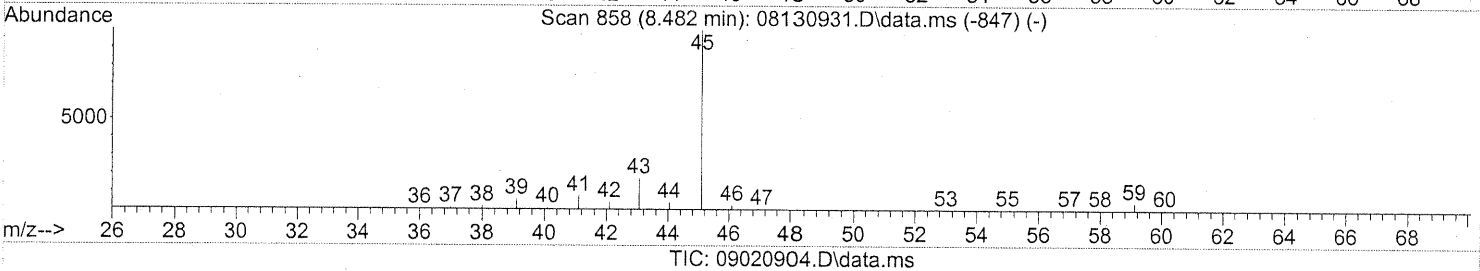
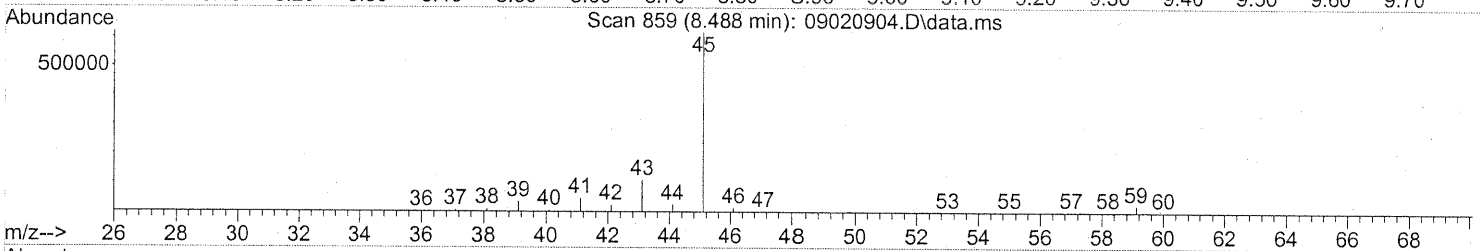
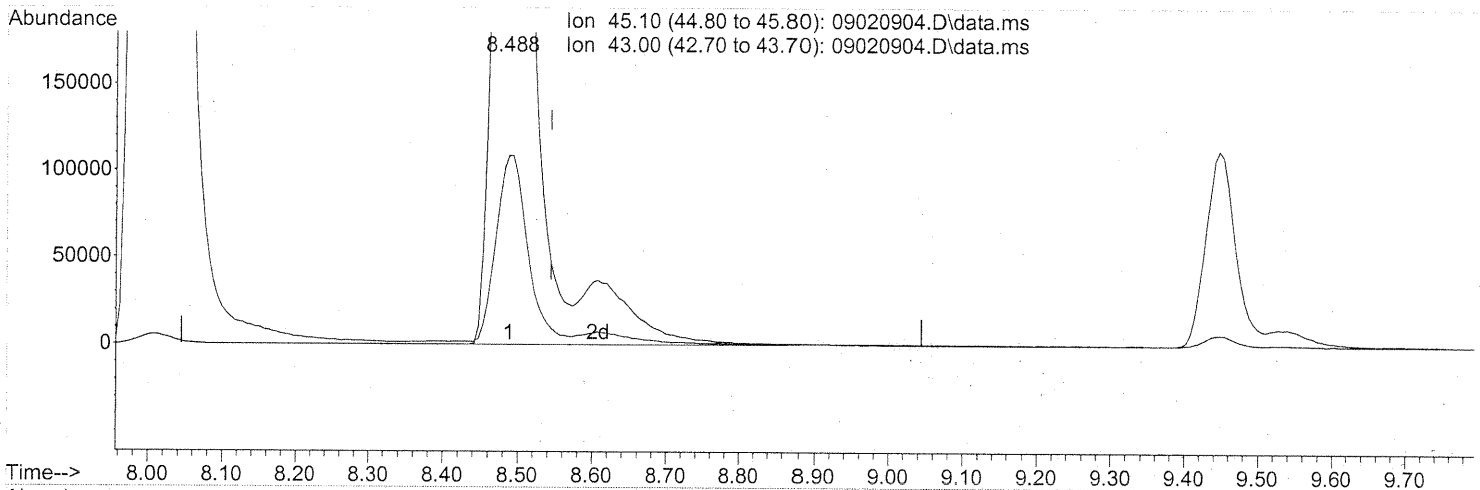
PT

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	20.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020904.D
 Acq On : 2 Sep 2009 8:21
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08240914
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 02 09:29:23 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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) 37.72ng m

response 1990069

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	18.42
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

em 9/2/09

W 9/2/09

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...										
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)										
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: 520-0310001
 20ng/L Std. ID: 520-0310002
 200ng/L Std. ID: 520-0310003
 Dilution Factors: 5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L):	ICAL Concentrations (Primary Source)							
		200ng/L	20ng/L	4ng/L		0.025	0.05	0.025	0.050	0.25	0.125	0.25	0.50
		ICAL Points:	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

tem 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 Concentrations (Primary Source)							
		5	50	250		4	4	20	20	20	200	200	200
		200ng/L	20ng/L	4ng/L		0.025	0.050	0.025	0.05	0.25	0.125	0.25	0.50
Bromoform	1.03	206	20.6	4.12	ICAL Points:	0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng	100ng
Styrene	1.07	214	21.4	4.28		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
o-Xylene	1.06	212	21.2	4.24		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
n-Nonane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
						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									
Cumene	1.03	206	20.6	4.12		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
alpha-Pinene	1.01	202	20.2	4.04		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
n-Propylbenzene	1.03	206	20.6	4.12		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
3-Ethyltoluene	1.09	218	21.8	4.36		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
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		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
2-Ethyltoluene	1.05	210	21.0	4.20		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
1,2,4-Trimethylbenzene	1.06	212	21.2	4.24		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
n-Decane	1.08	216	21.6	4.32		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
Benzyl Chloride	1.10	220	22.0	4.40		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
1,3-Dichlorobenzene	1.09	218	21.8	4.36		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
1,4-Dichlorobenzene	1.06	212	21.2	4.24		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
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		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,2,3-Trimethylbenzene	1.07	214	21.4	4.28		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
1,2-Dichlorobenzene	1.06	212	21.2	4.24		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
d-Limonene	1.09	218	21.8	4.36		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
chloropropane	1.10	220	22.0	4.40		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
n-Undecane	1.09	218	21.8	4.36		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
1,2,4-Trichlorobenzene	1.12	224	22.4	4.48		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
Naphthalene	1.06	212	21.2	4.24		0.112	0.224	0.560	1.12	5.60	28.0	56.0	112
n-Dodecane	0.99	198	19.8	3.96		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
						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
terti-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.

em 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\O8130926.D
2	0.2	0	25	J:\MS09\Data\2009_08\13\O8130927.D
3	0.5	1	25	J:\MS09\Data\2009_08\13\O8130928.D
4	1.0	1	25	J:\MS09\Data\2009_08\13\O8130929.D
5	5.0	5	25	J:\MS09\Data\2009_08\13\O8130930.D
6	25	27	25	J:\MS09\Data\2009_08\13\O8130931.D
7	50	54	25	J:\MS09\Data\2009_08\13\O8130932.D
8	100	107	25	J:\MS09\Data\2009_08\13\O8130933.D

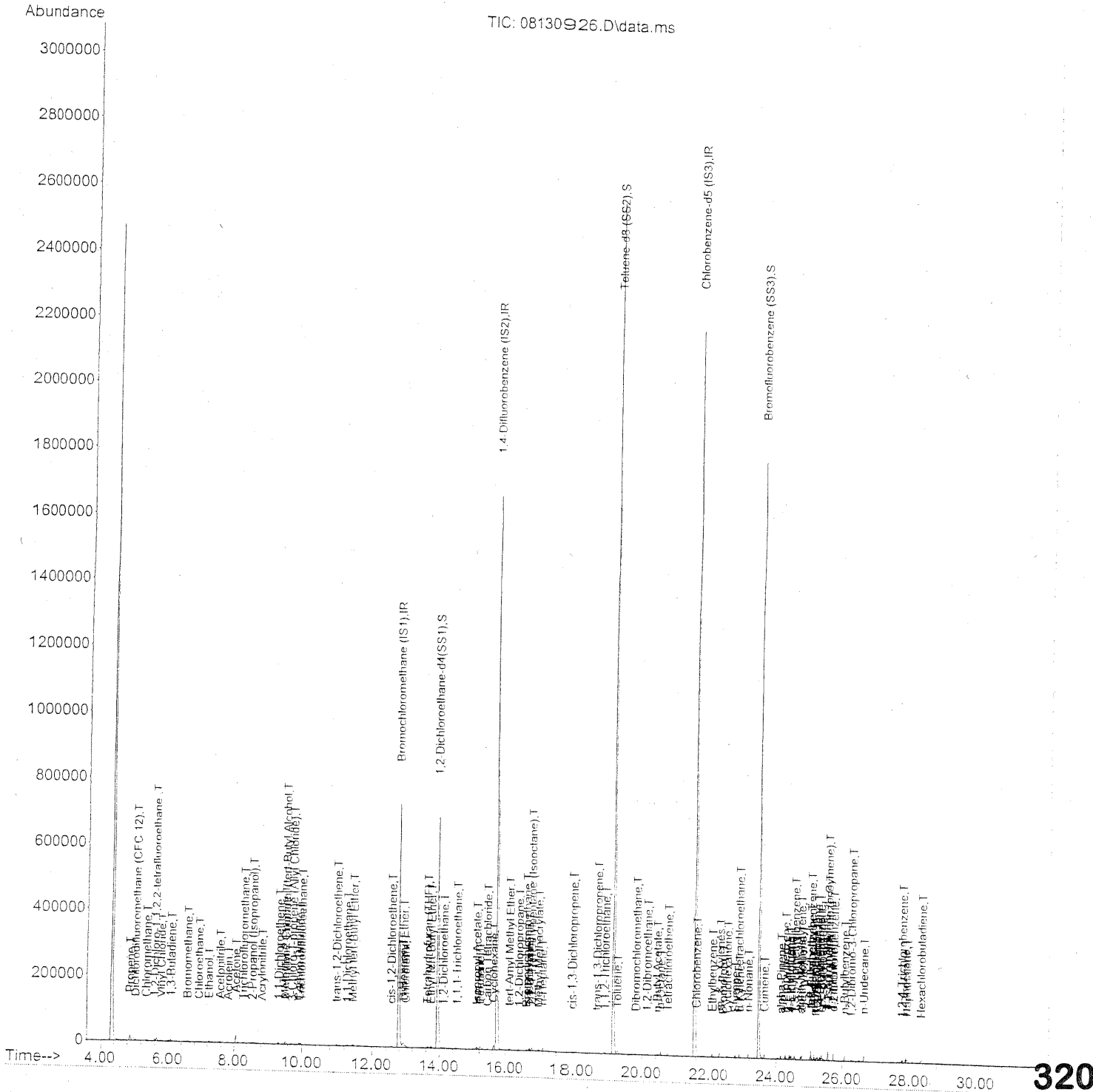
#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 14 07:29 2009	Aug 14 07:05 2009	14 Aug 2009 1:56
2	0.2	Aug 14 07:30 2009	Aug 14 07:14 2009	14 Aug 2009 2:38
3	0.5	Aug 14 07:30 2009	Aug 14 07:20 2009	14 Aug 2009 3:19
4	1.0	Aug 14 07:30 2009	Aug 14 07:21 2009	14 Aug 2009 4:01
5	5.0	Aug 14 07:30 2009	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	95

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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

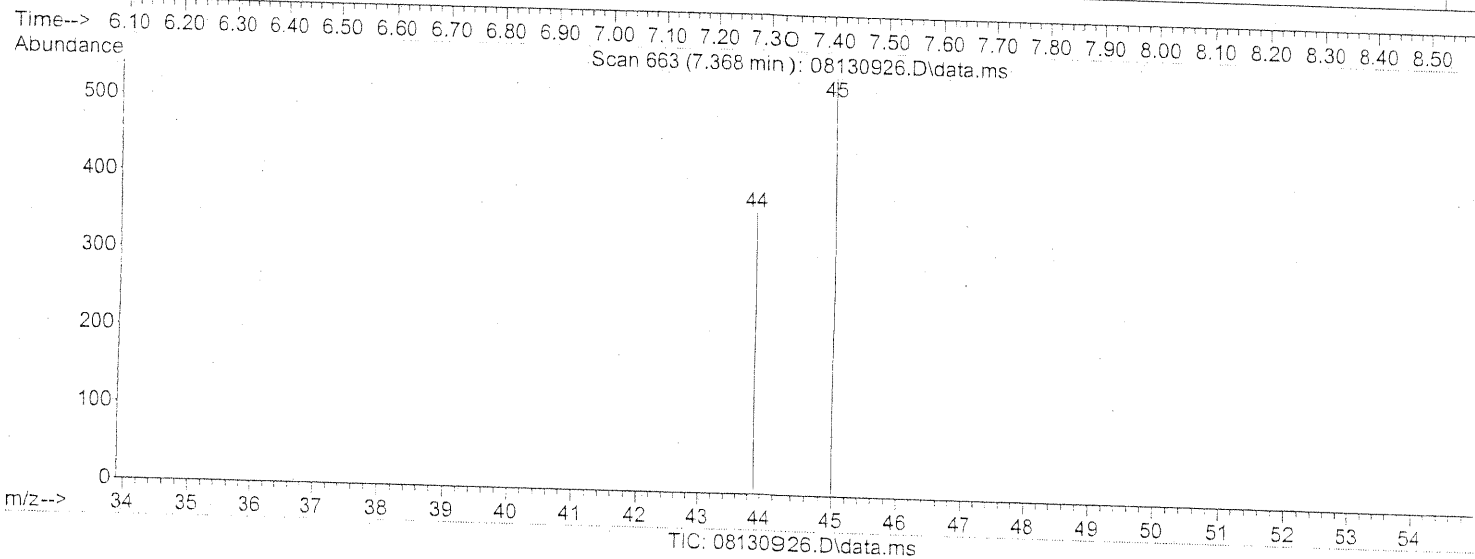
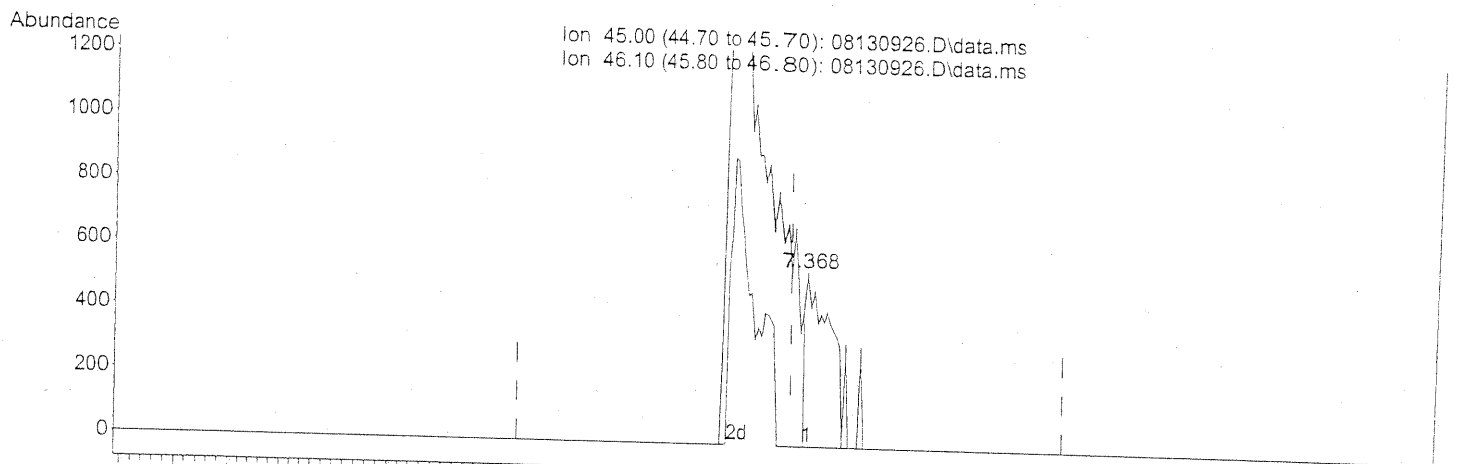
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

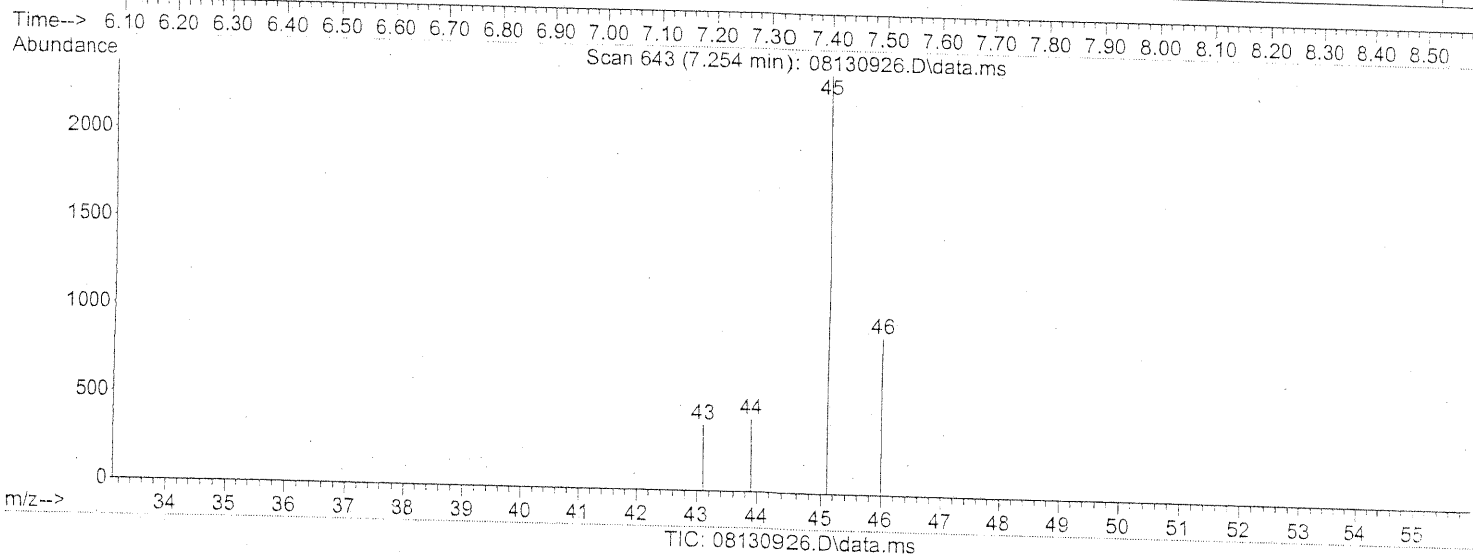
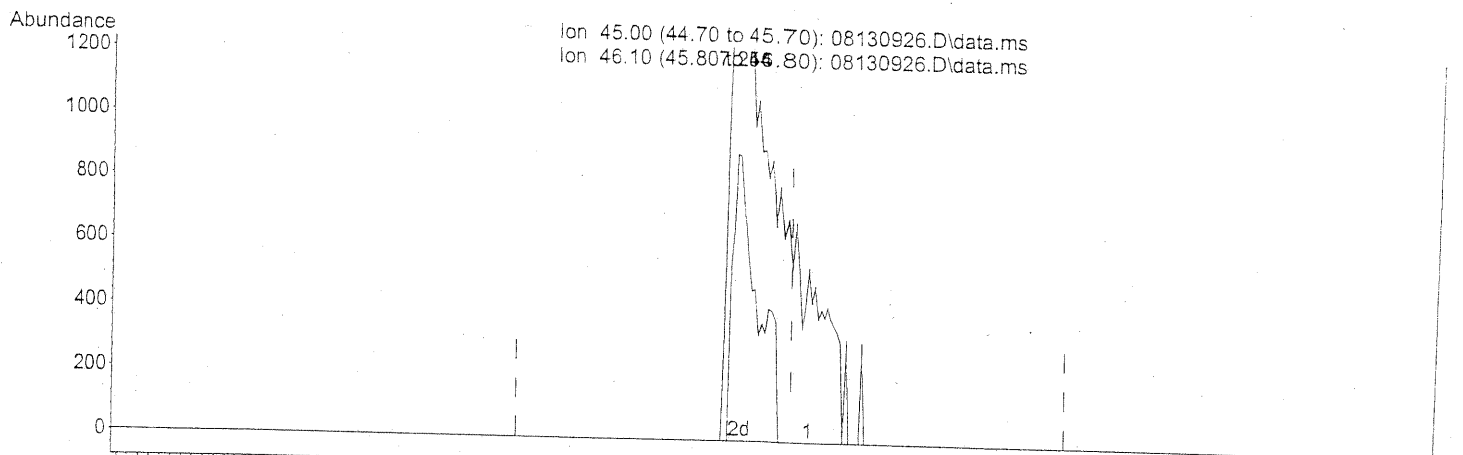
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

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

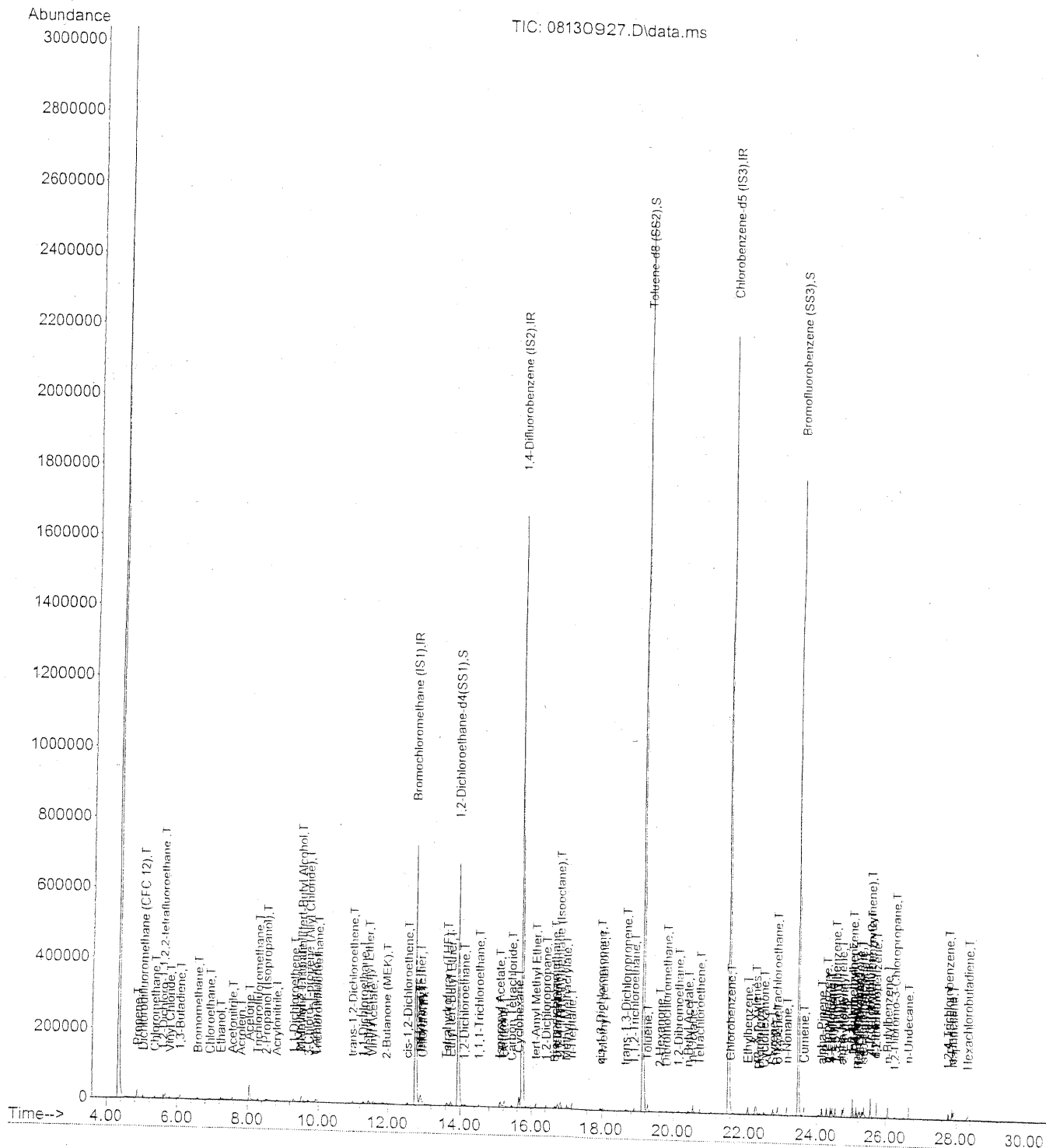
SP → IC
 em 8/14/09

DA 8/15/09

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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							
							Recovery = 100.92%
57) Toluene-d8 (SS2)	19.14	98	2284146	23.803	ng	-0.02	
Spiked Amount							
							Recovery = 95.20%
73) Bromofluorobenzene (SS3)	23.49	174	650502	22.548	ng	0.00	
Spiked Amount							
							Recovery = 90.20%
Target Compounds							
2) Propene	4.87	42	6837	0.279	ng		Qvalue
3) Dichlorodifluoromethan...	5.02	85	10147	0.208	ng		97
4) Chloromethane	5.36	50	8936	0.244	ng		95
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	5244	0.191	ng		97
6) Vinyl Chloride	5.81	62	8752	0.224	ng		89
7) 1,3-Butadiene	6.10	54	6814	0.243	ng		91
8) Bromomethane	6.60	94	4286	0.186	ng		94
9) Chloroethane	6.94	64	4242	0.217	ng		92
10) Ethanol	7.24	45	21624	1.332	ng		84
11) Acetonitrile	7.58	41	10541	0.287	ng		85
12) Acrolein	7.82	56	2810	0.237	ng		86
13) Acetone	8.05	58	26843	1.453	ng		96
14) Trichlorofluoromethane	8.29	101	8048	0.189	ng		93
15) 2-Propanol (Isopropanol)	8.53	45	23904	0.492	ng		100
16) Acrylonitrile	8.83	53	5080	0.205	ng		95
17) 1,1-Dichloroethene	9.32	96	5237	0.242	ng		92
18) 2-Methyl-2-Propanol (t...	9.52	59	23137	0.423	ng		94
19) Methylene Chloride	9.52	84	5947	0.243	ng		93
20) 3-Chloro-1-propene (Al...	9.73	41	6616	0.251	ng		88
21) Trichlorotrifluoroethane	9.98	151	3591	0.186	ng		84
22) Carbon Disulfide	9.93	76	19471	0.234	ng		91
23) trans-1,2-Dichloroethene	10.99	61	7192	0.226	ng		95
24) 1,1-Dichloroethane	11.30	63	8927	0.230	ng		85
25) Methyl tert-Butyl Ether	11.45	73	14779	0.216	ng		93
26) Vinyl Acetate	11.58	86	1274	0.289	ng		96
27) 2-Butanone (MEK)	11.97	72	1592	0.113	ng		# 1
28) cis-1,2-Dichloroethene	12.57	61	6876	0.224	ng		# 1
29) Diisopropyl Ether	12.94	87	4063	0.186	ng		90
30) Ethyl Acetate	12.95	61	1611	0.175	ng		# 86
31) n-Hexane	12.93	57	9734	0.228	ng		88

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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

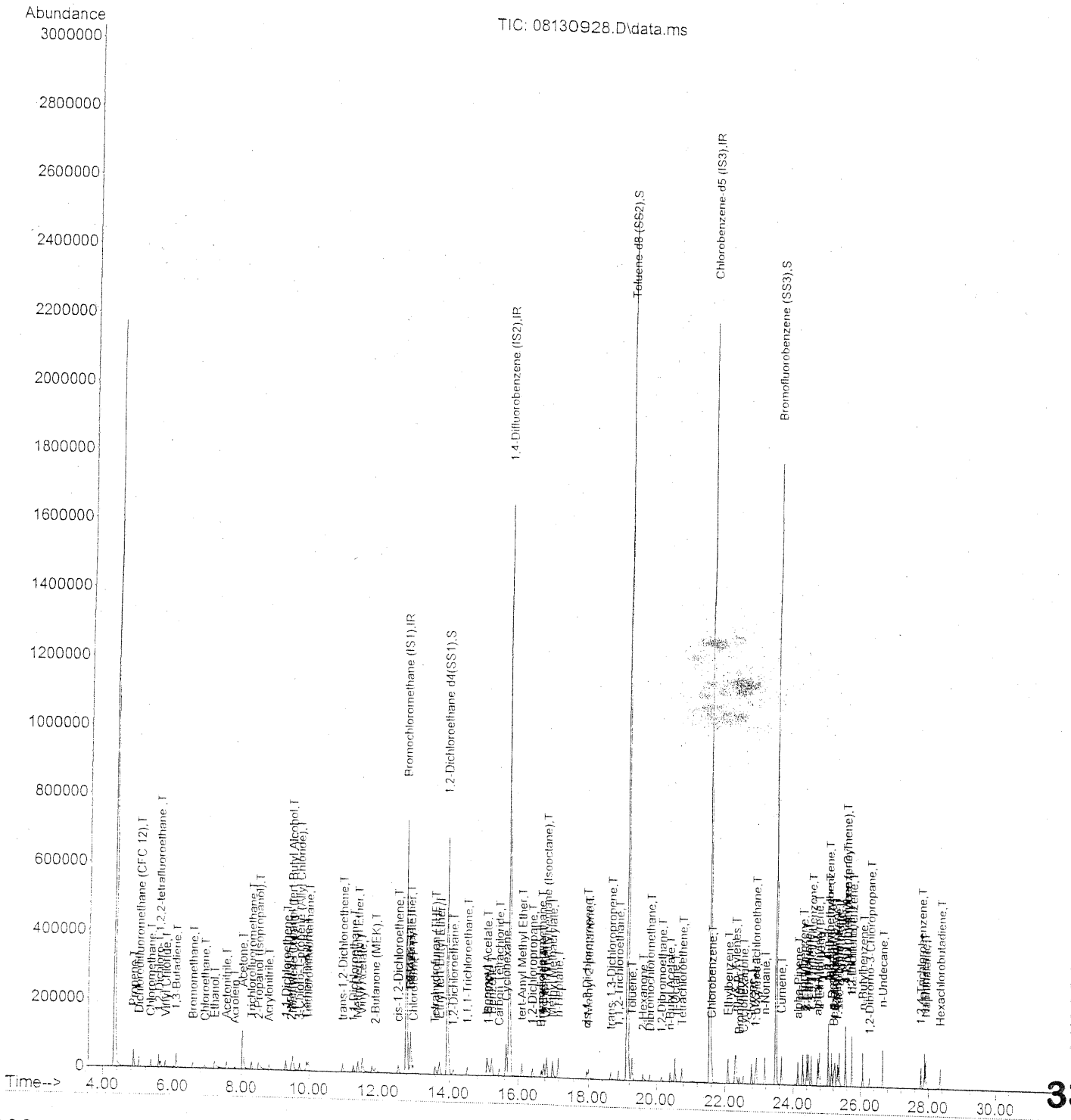
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	9096	0.148	ng	94
81) 2-Ethyltoluene	24.79	105	22138	0.160	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	18432	0.150	ng	99
83) n-Decane	25.15	57	11801	0.198	ng	93
84) Benzyl Chloride	25.22	91	12901	0.146	ng	92
85) 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

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



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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)
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	R.T.	QIon	Response	Conc	Units	Dev (Min)
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	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	99

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Em 8/14/09

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	95
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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Em 8/14/09

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

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	R.T.	QIon	Response	Conc	Units	Dev (Min)
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	95
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	98

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EM 8/14/09

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

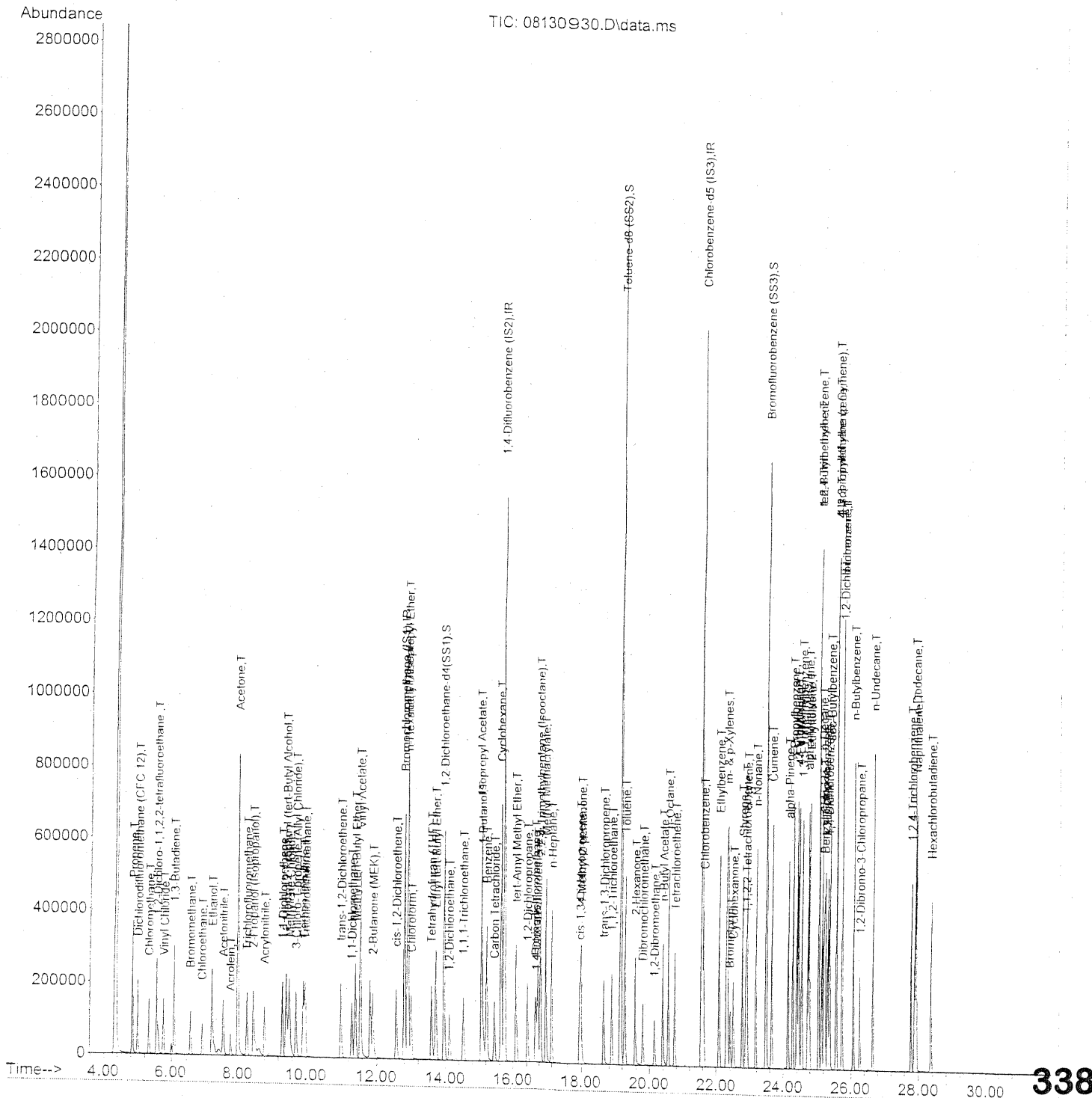
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	53658	0.878	ng	96
81) 2-Ethyltoluene	24.79	105	124584	0.908	ng	97
82) 1,2,4-Trimethylbenzene	25.05	105	102293	0.837	ng	100
83) n-Decane	25.15	57	64455	1.092	ng	94
84) Benzyl Chloride	25.21	91	81497	0.930	ng	98
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

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	R.T.	QIon	Response	Conc	Units	Dev(Min)
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	R.T.	QIon	Response	Conc	Units	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	93
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	98
31) n-Hexane	12.92	57	224482	5.722	ng	98

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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)
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

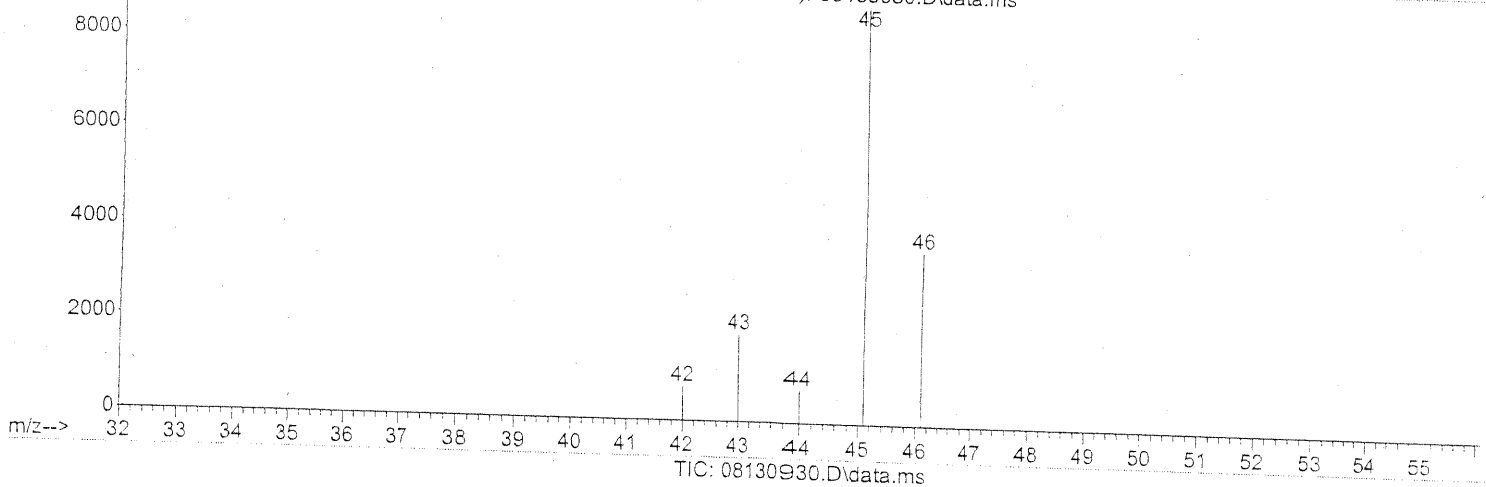
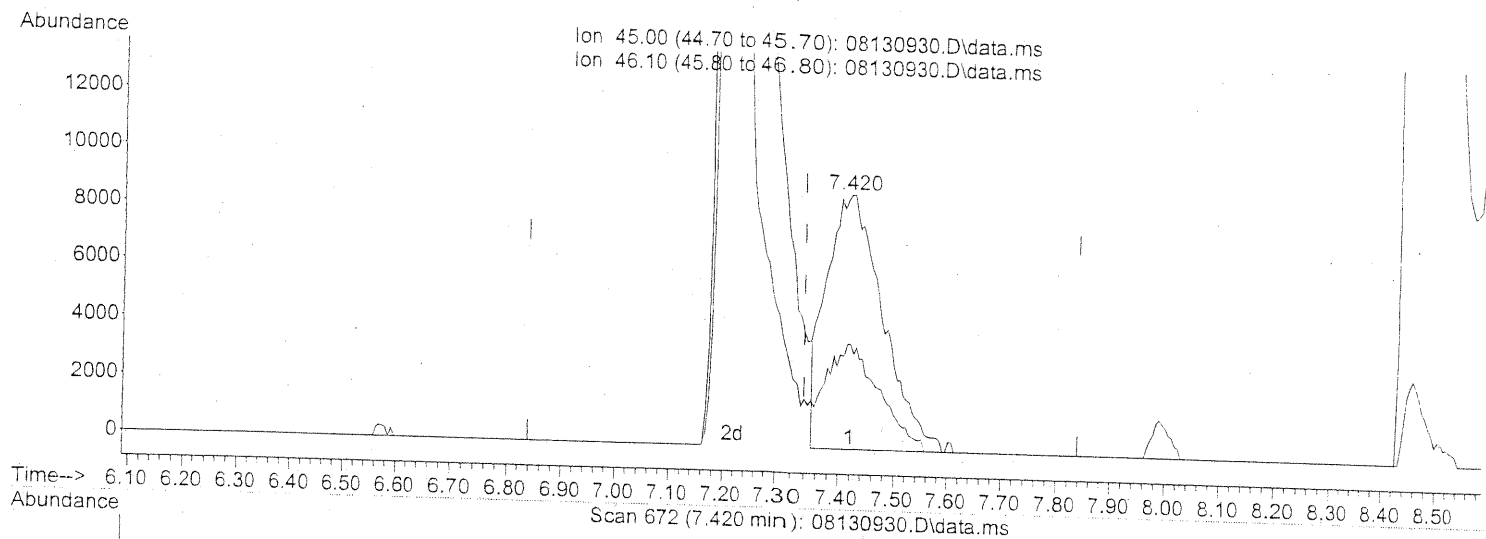
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

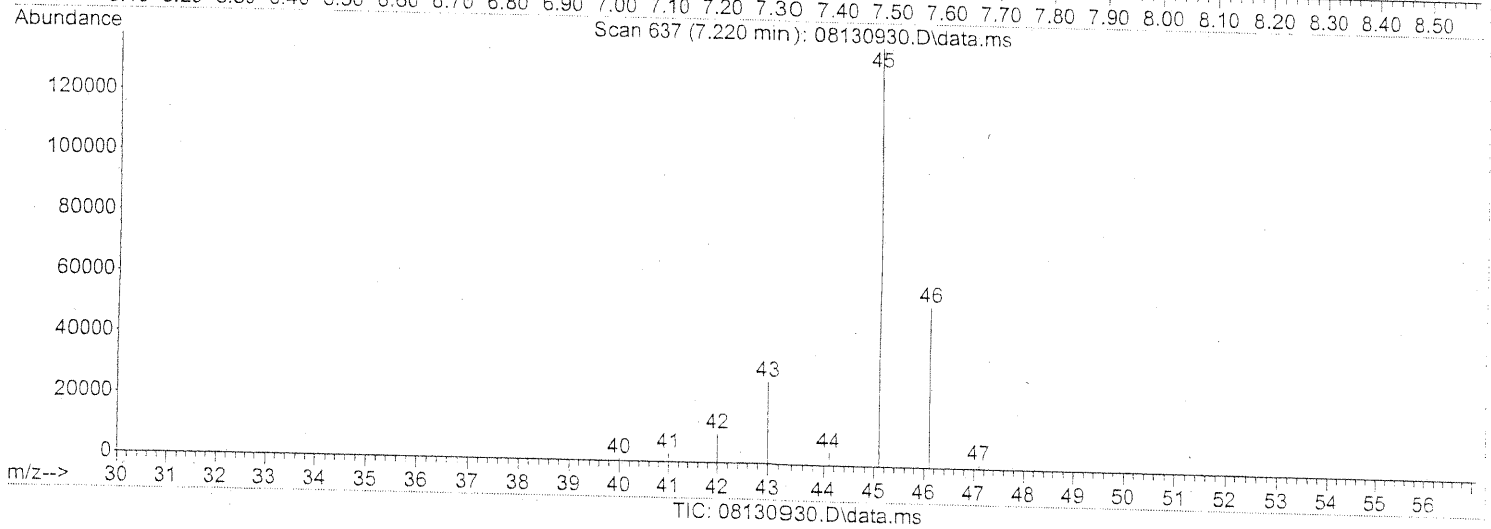
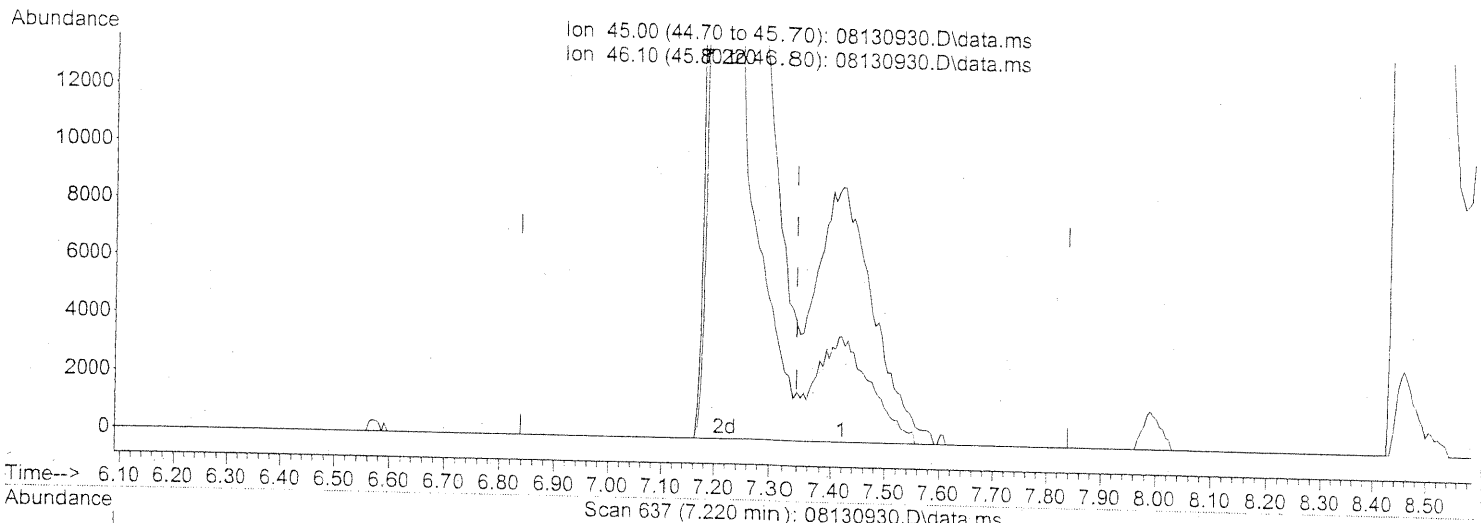
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.29
0.00	0.00	0.00
0.00	0.00	0.00

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

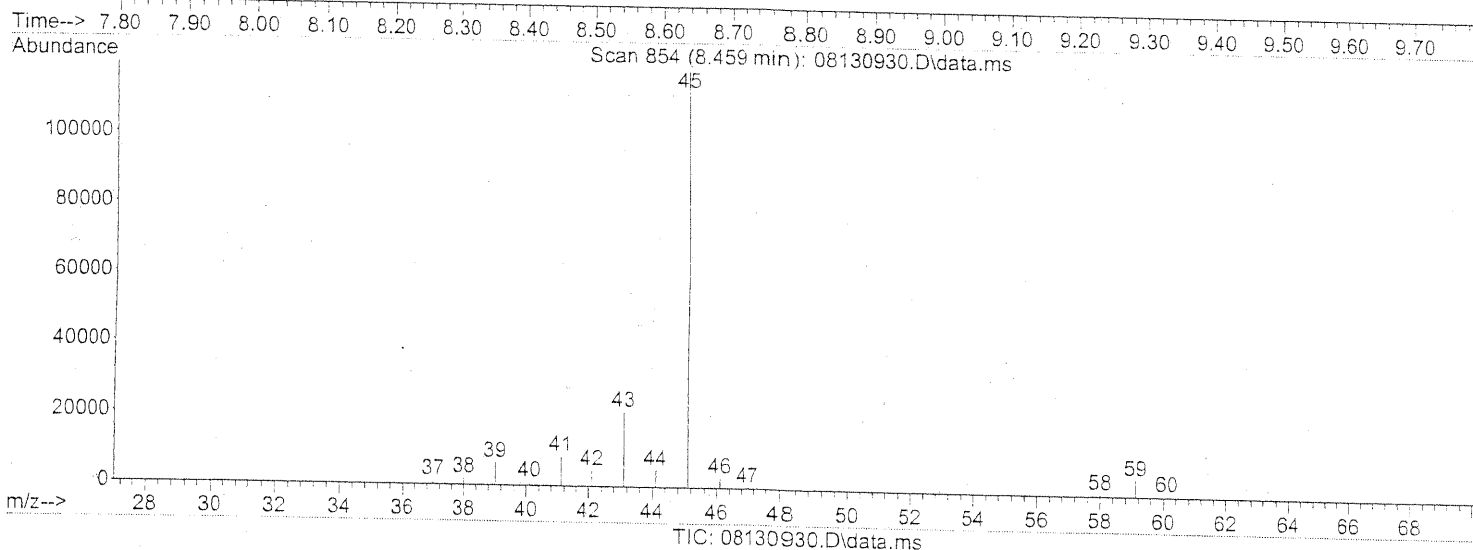
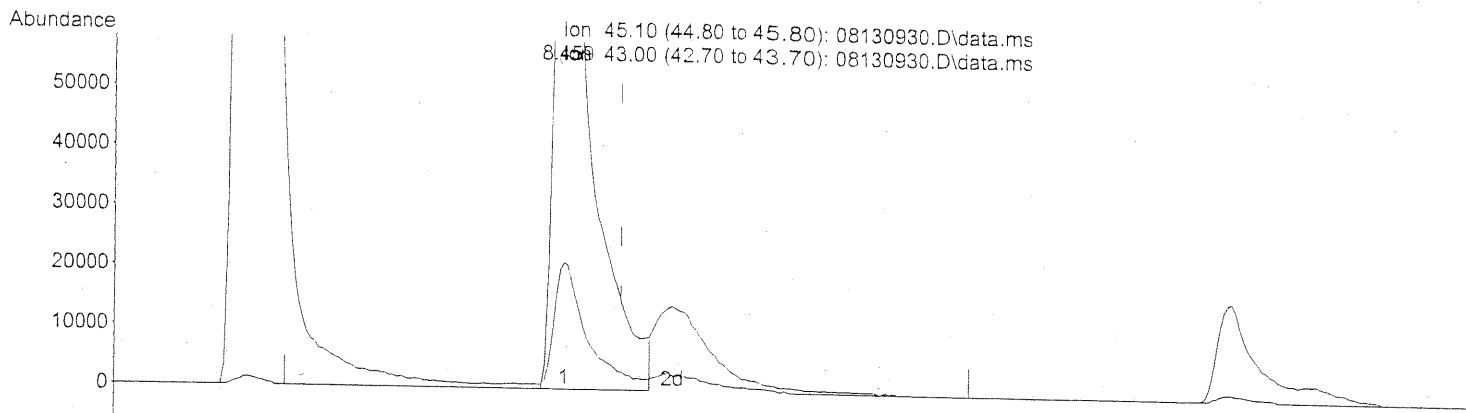
SP → IC
EM 8/14/09

EM 8/15/09

343

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

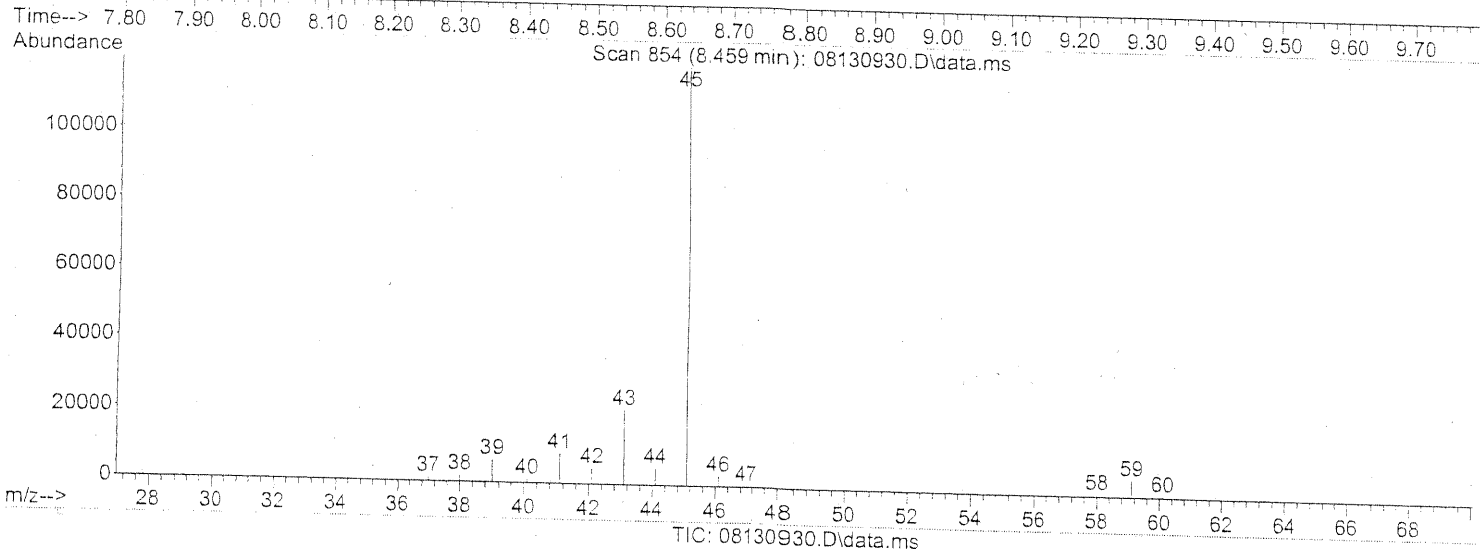
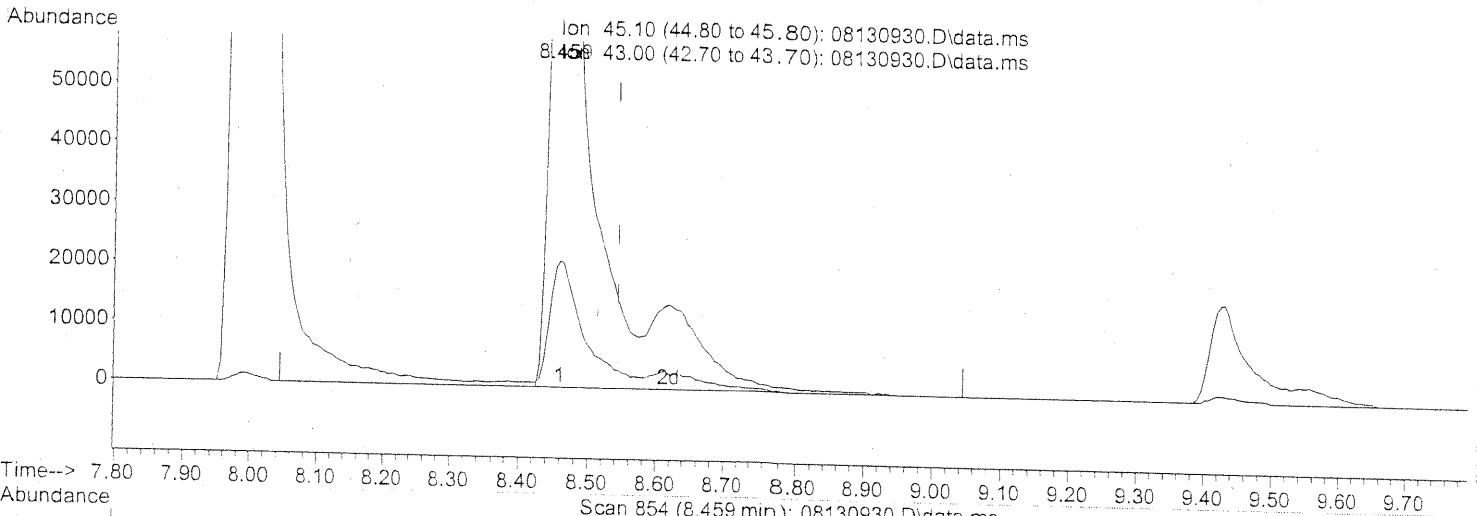
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.32
0.00	0.00	0.00
0.00	0.00	0.00

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

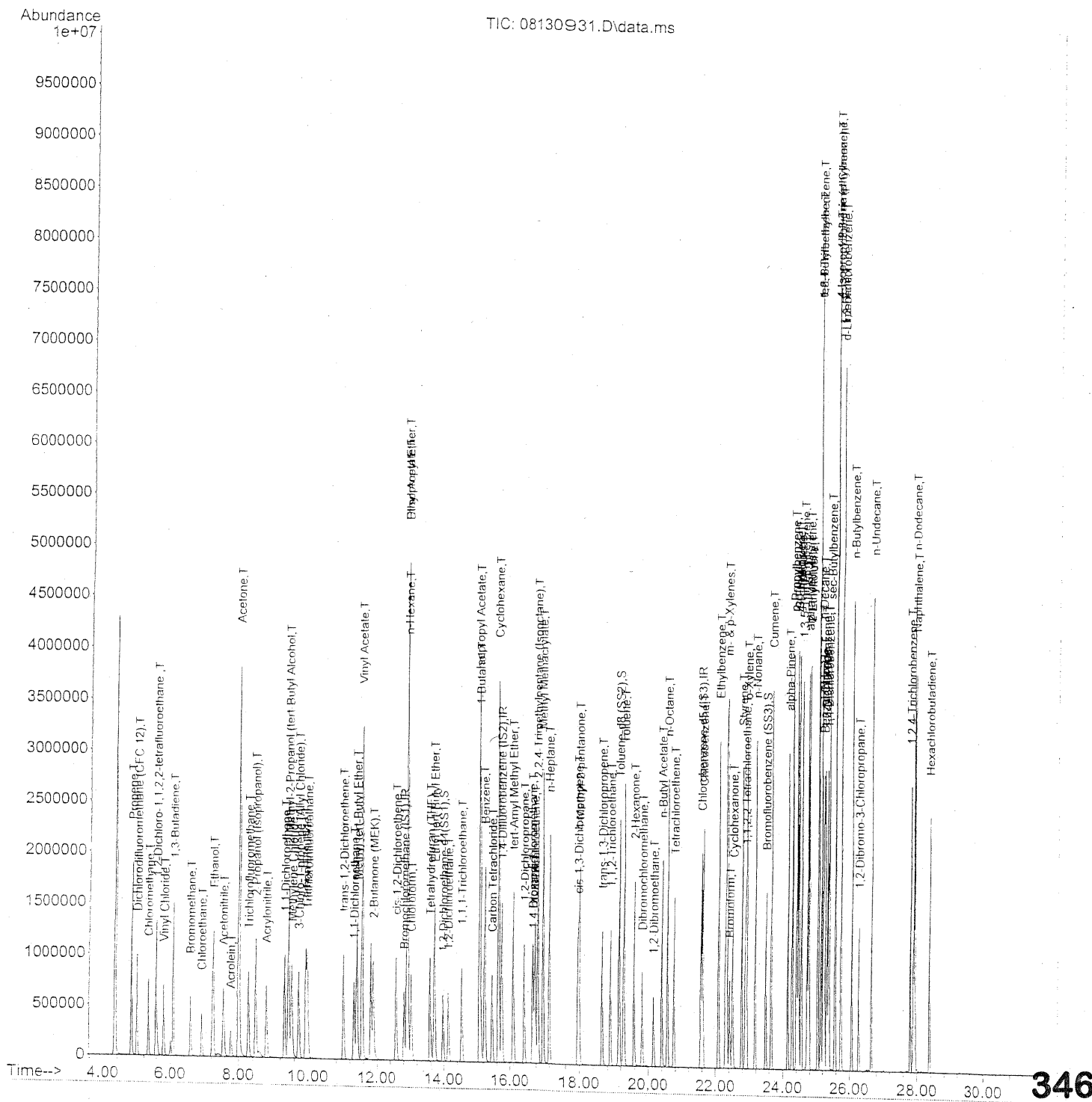
PT → LC
Em 8/14/09

EM 8/15/09

345

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)	Recovery
33) 1,2-Dichloroethane-d4 (...)	13.97	65	639555	24.827	ng	-0.02	
Spiked Amount				25.000			
							= 99.32%
57) Toluene-d8 (SS2)	19.15	98	2134862	24.032	ng	-0.01	
Spiked Amount				25.000			
							= 96.12%
73) Bromofluorobenzene (SS3)	23.49	174	608116	22.770	ng	0.00	
Spiked Amount				25.000			
							= 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	97

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Scan 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

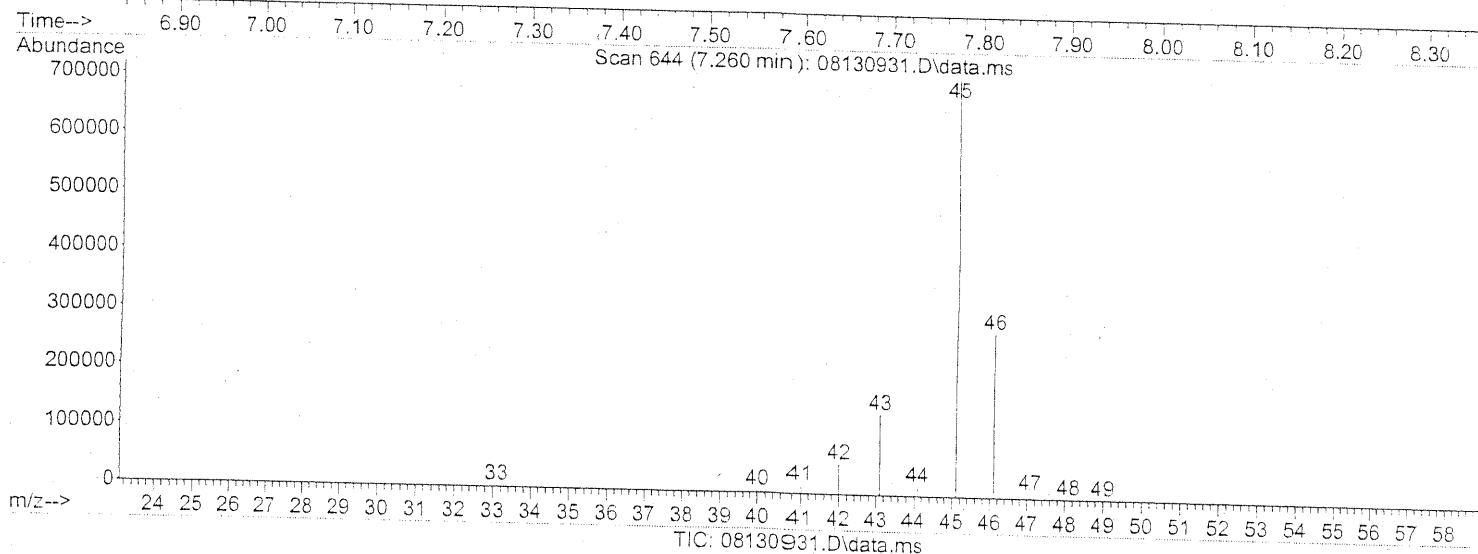
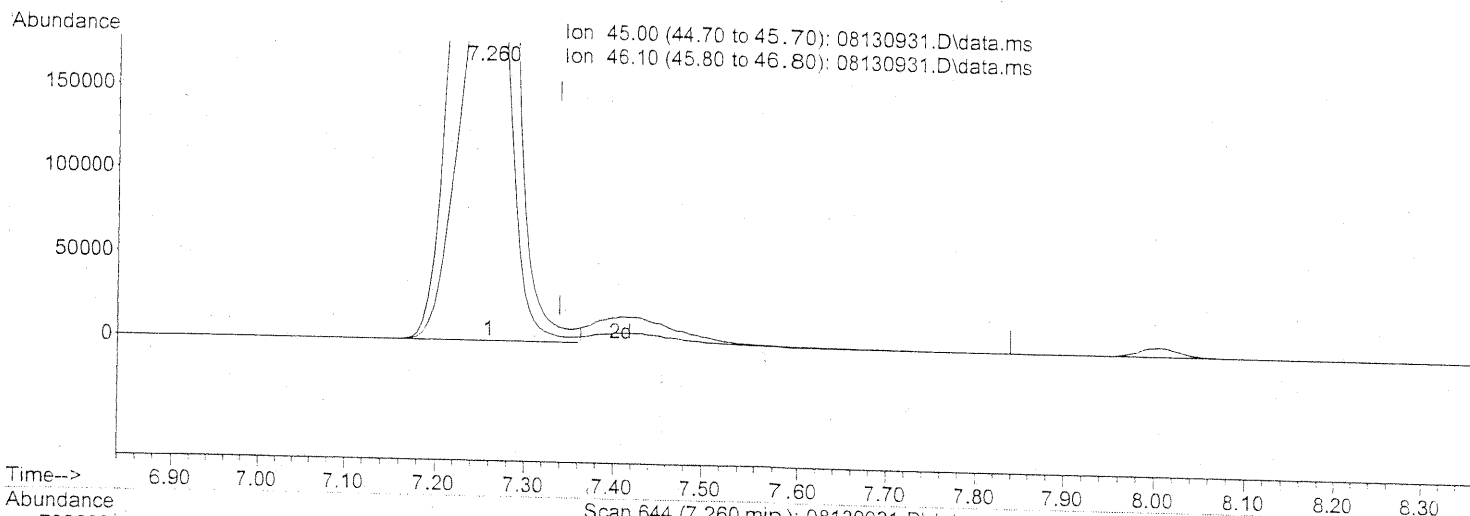
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

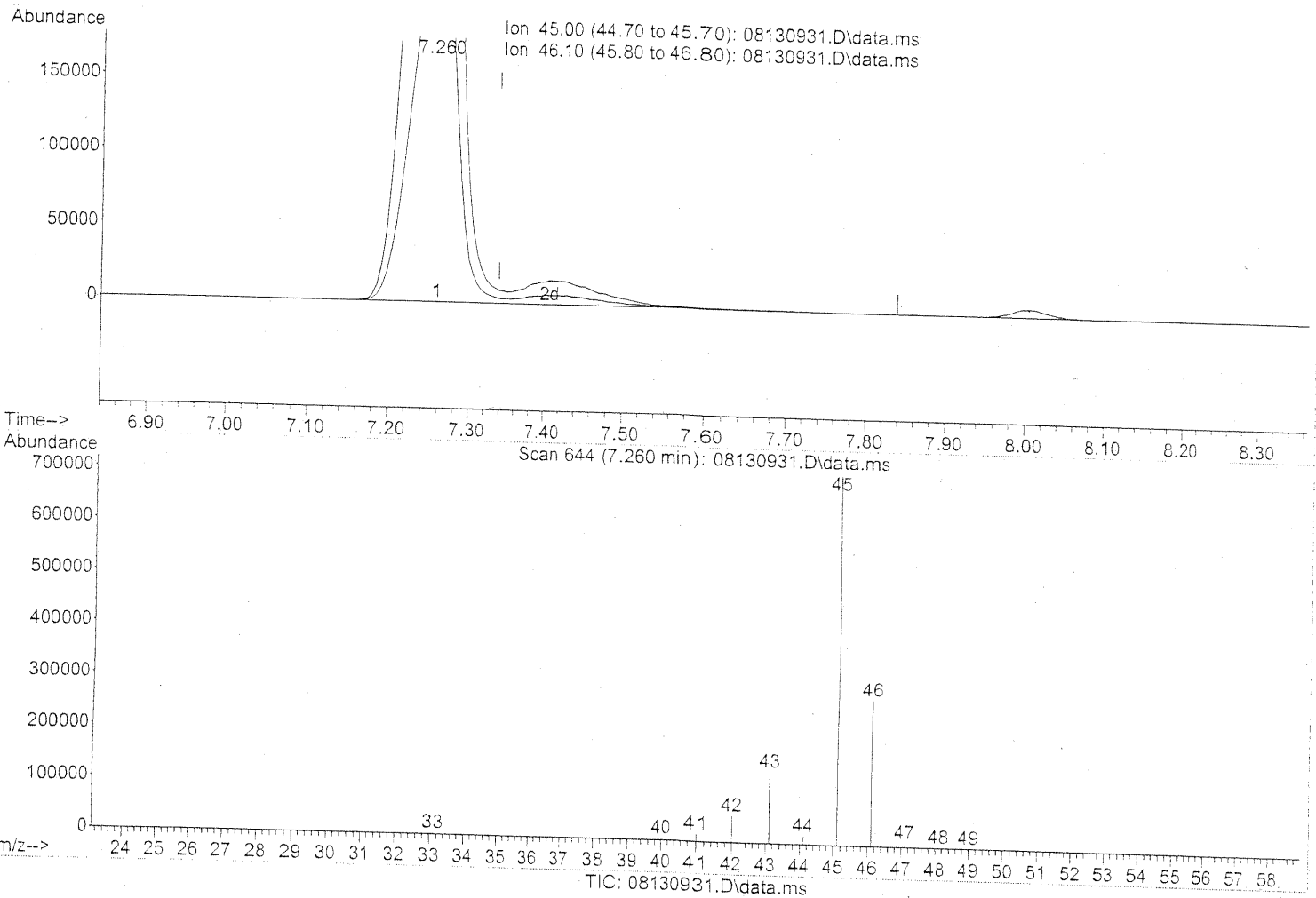
response 2536739

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

PT

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

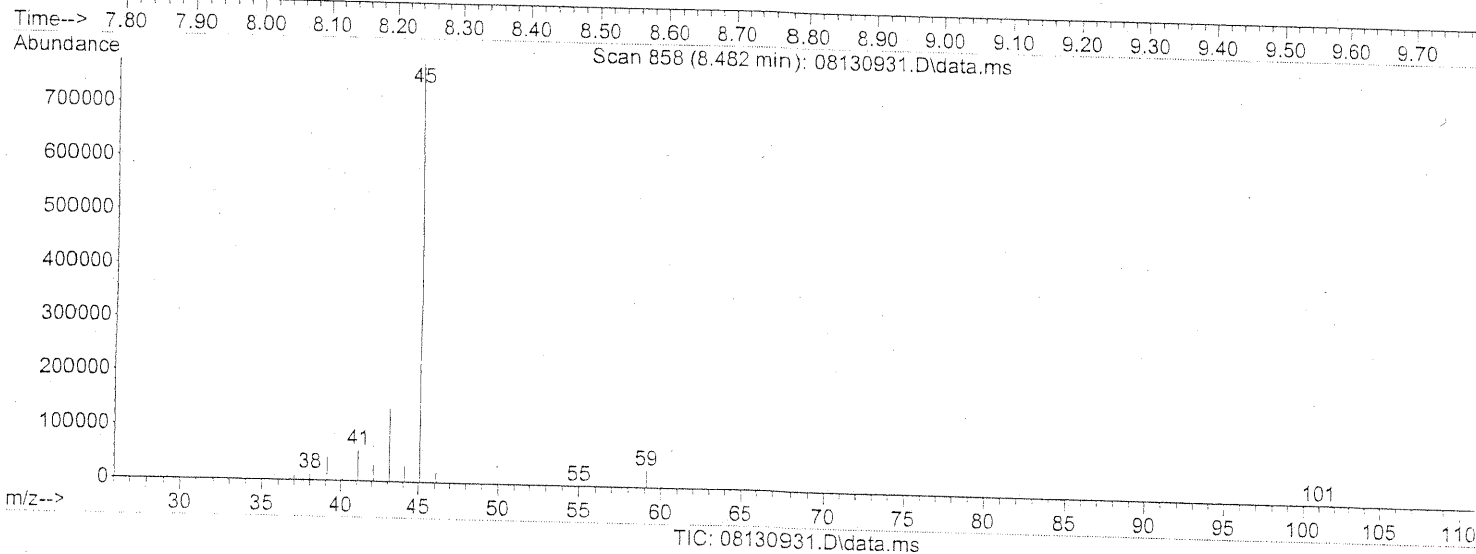
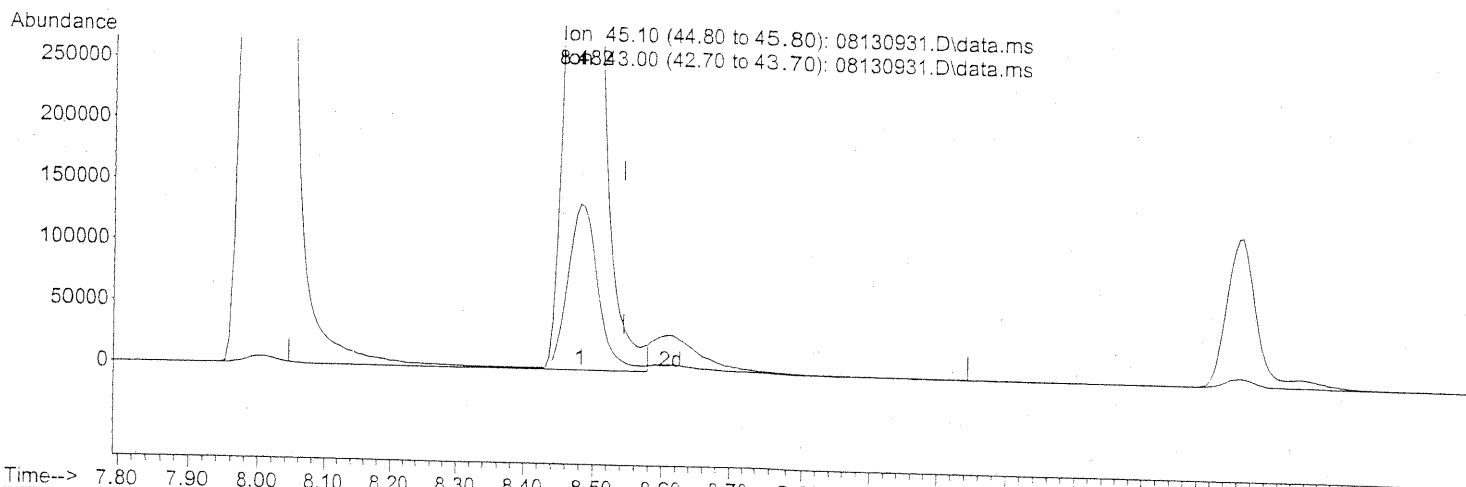
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.49
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
EM 8/14/09

EM 8/15/09

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 07:25:12 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

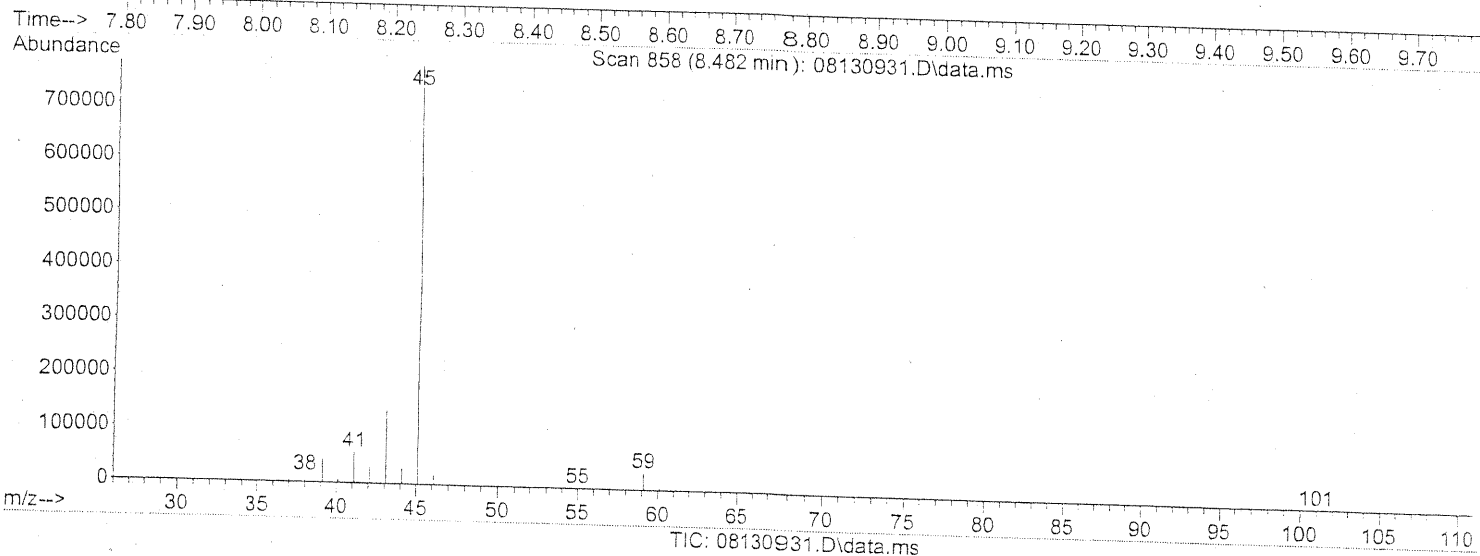
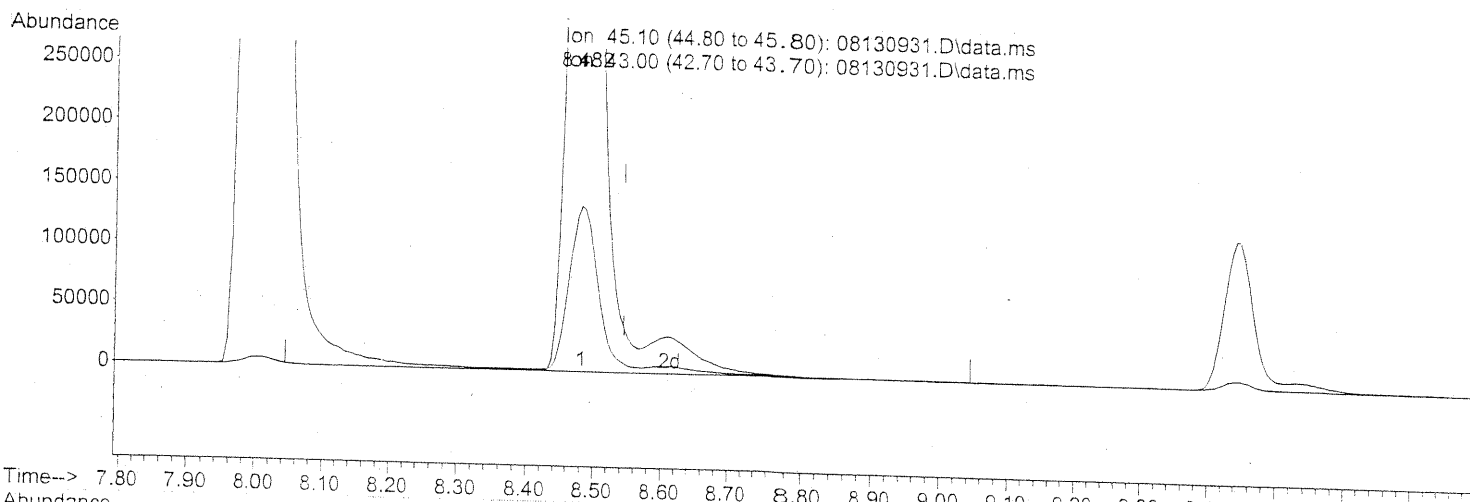
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.19
0.00	0.00	0.00
0.00	0.00	0.00

ET

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

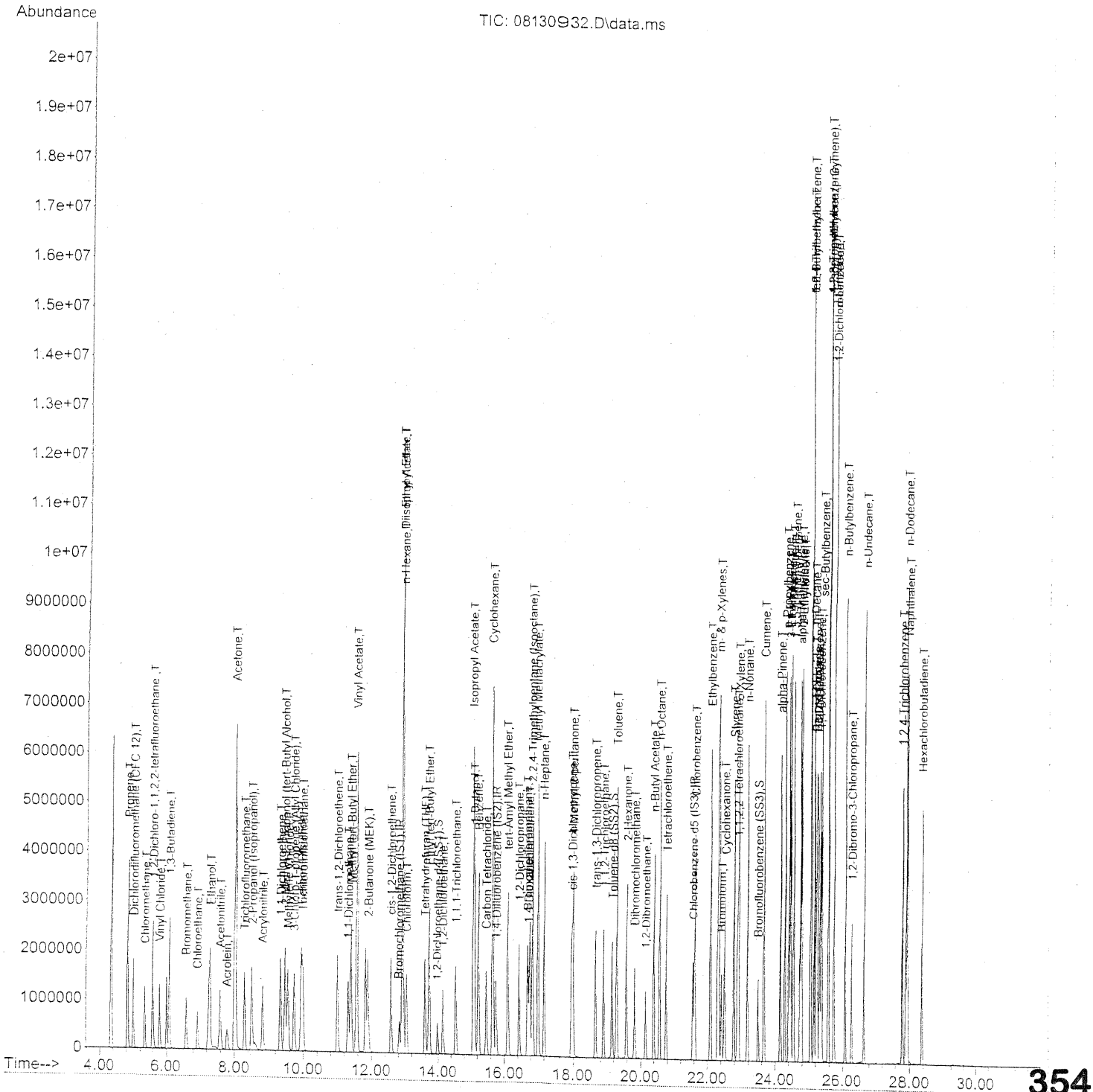
EM 8/14/09

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)	Recovery
33) 1,2-Dichloroethane-d4 (...)	13.98	65	612890	24.713	ng	-0.01	
Spiked Amount				25.000			98.84%
57) Toluene-d8 (SS2)	19.15	98	2053608	23.989	ng	0.00	
Spiked Amount				25.000			95.96%
73) Bromofluorobenzene (SS3)	23.49	174	585162	22.737	ng	0.00	
Spiked Amount				25.000			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	97

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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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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

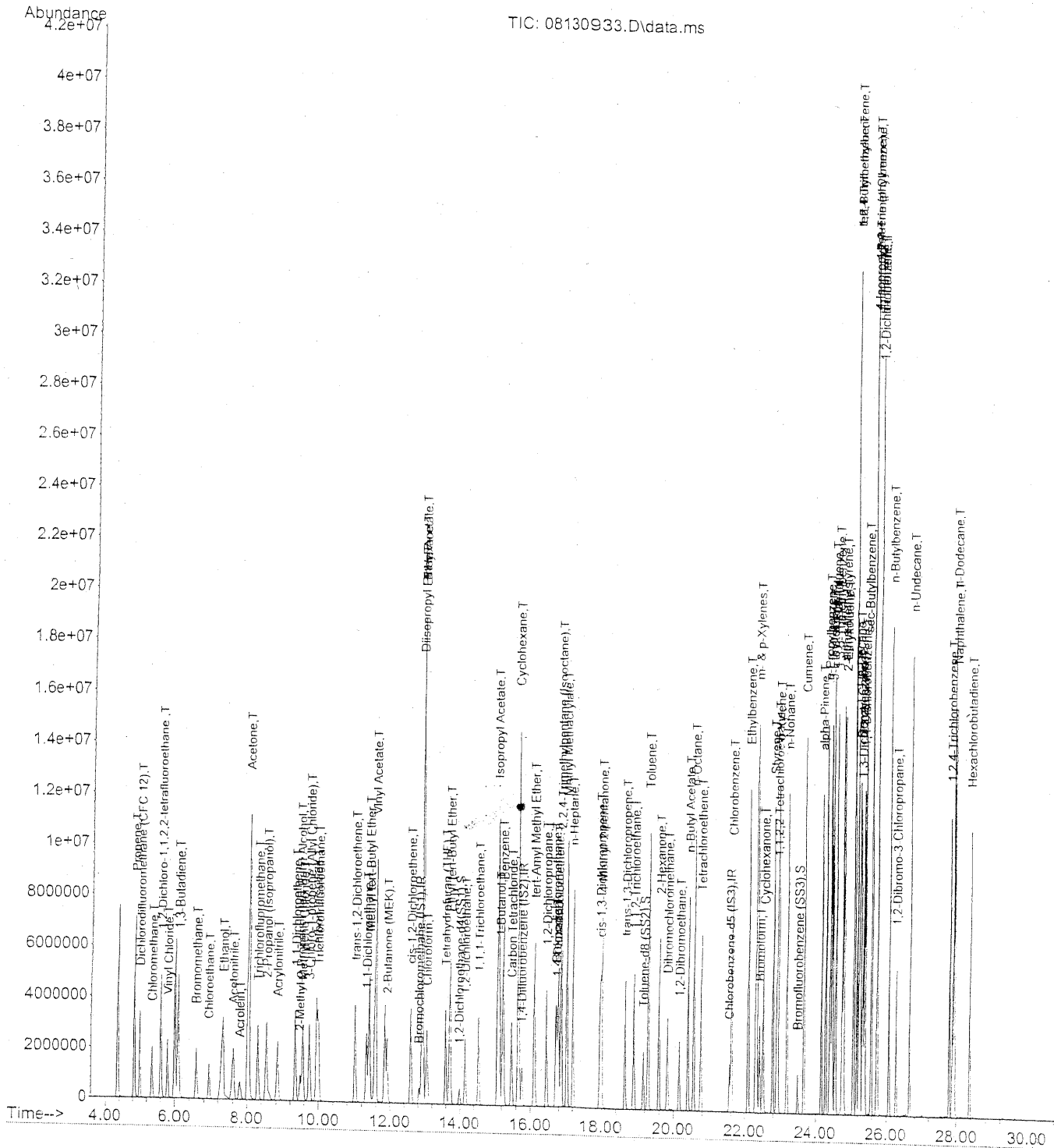
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	2788713	50.704	ng	98
81) 2-Ethyltoluene	24.79	105	5835415	47.282	ng	100
82) 1,2,4-Trimethylbenzene	25.06	105	5419555	49.283	ng	98
83) n-Decane	25.16	57	2958484	55.690	ng	96
84) Benzyl Chloride	25.23	91	4657935	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						
2) Propene	4.84	42	3637379	165.601	ng	Qvalue 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	88
31) n-Hexane	12.94	57	5006652	130.739	ng	88

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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	97

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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

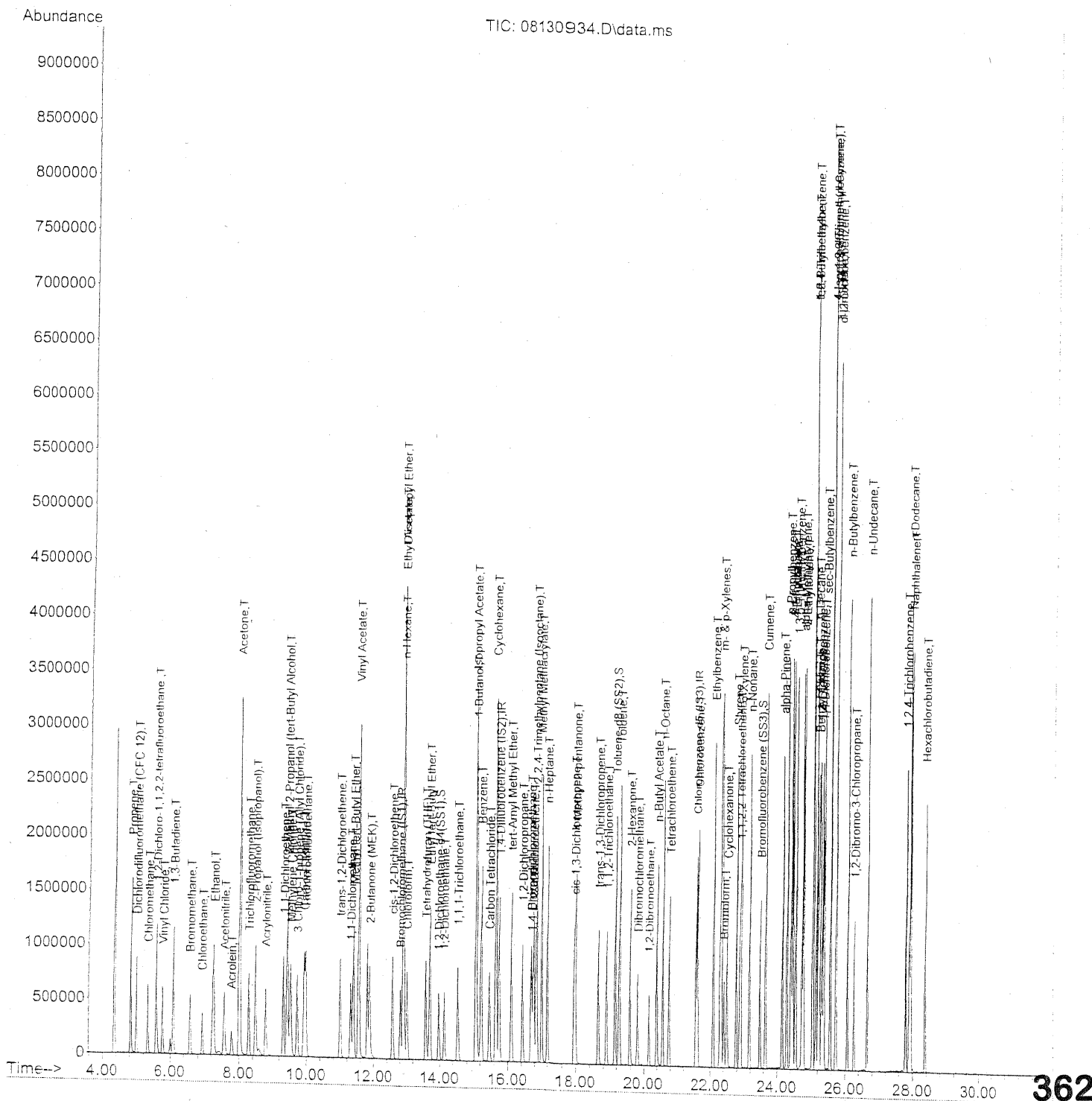
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	5862974	111.426	ng	98
81) 2-Ethyltoluene	24.80	105	11978631	101.452	ng	98
82) 1,2,4-Trimethylbenzene	25.07	105	11417406	108.524	ng	95
83) n-Decane	25.17	57	5959851	117.266	ng	97
84) Benzyl Chloride	25.24	91	9728914	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	R.T.	QIon	Response	Conc	Units	Dev (Min)	Recovery
33) 1,2-Dichloroethane-d4 (...)	13.97	65	604640	24.616	ng	-0.02	
Spiked Amount				25.000			
							= 98.48%
57) Toluene-d8 (SS2)	19.15	98	2007417	25.903	ng	-0.01	
Spiked Amount				25.000			
							= 103.60%
73) Bromofluorobenzene (SS3)	23.49	174	549810	25.051	ng	0.00	
Spiked Amount				25.000			
							= 100.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	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	98
11) Acetonitrile	7.57	41	1091608	23.400	ng	99
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	99
16) Acrylonitrile	8.81	53	785326	27.795	ng	100
17) 1,1-Dichloroethene	9.33	96	557081	25.520	ng	97
18) 2-Methyl-2-Propanol (t...	9.45	59	2821970	52.180	ng	92
19) Methylene Chloride	9.54	84	567231	23.372	ng	90
20) 3-Chloro-1-propene (Al...	9.73	41	863616	26.536	ng	100
21) Trichlorotrifluoroethane	9.98	151	460905	27.684	ng	98
22) Carbon Disulfide	9.93	76	2066628	24.130	ng	94
23) trans-1,2-Dichloroethene	11.00	61	828040	24.719	ng	99
24) 1,1-Dichloroethane	11.31	63	1028210	25.062	ng	97
25) Methyl tert-Butyl Ether	11.40	73	1722756	25.914	ng	78
26) Vinyl Acetate	11.56	86	625023	148.358	ng	87
27) 2-Butanone (MEK)	11.89	72	401170	29.583	ng	94
28) cis-1,2-Dichloroethene	12.58	61	818774	26.193	ng	78
29) Diisopropyl Ether	12.91	87	504111	26.184	ng	99
30) Ethyl Acetate	12.90	61	457829	52.062	ng	99
31) n-Hexane	12.93	57	1031014	24.051	ng	99

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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)
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	98

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

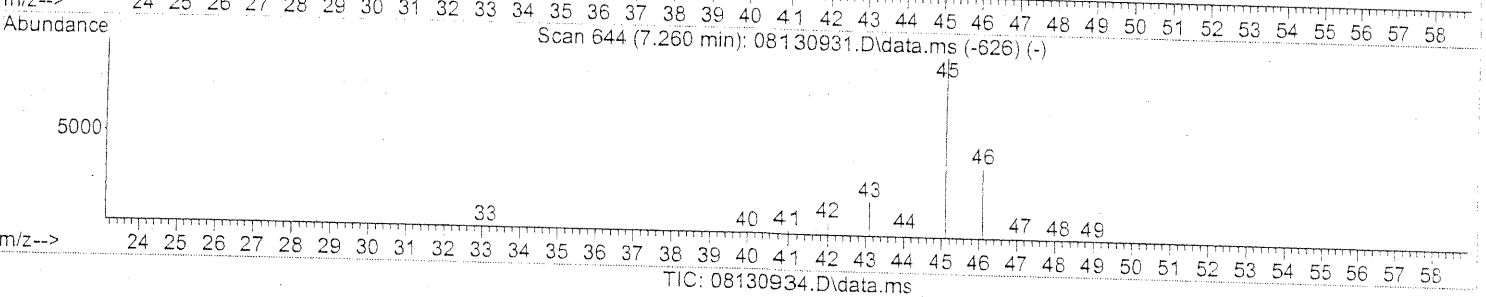
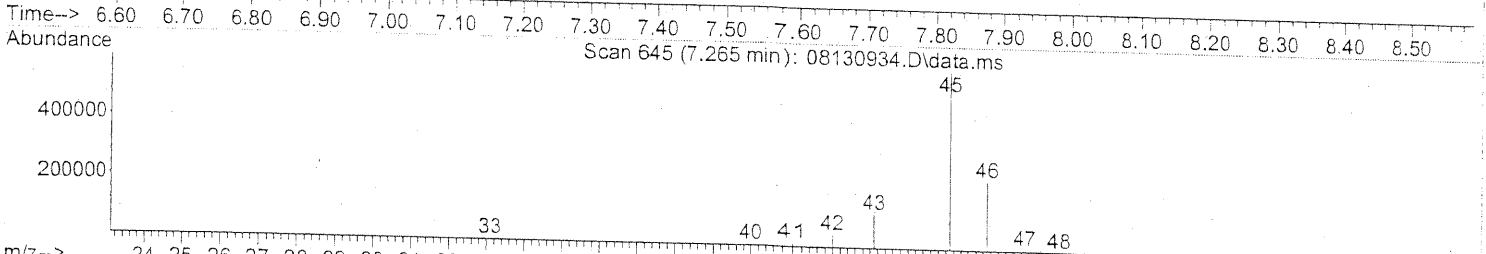
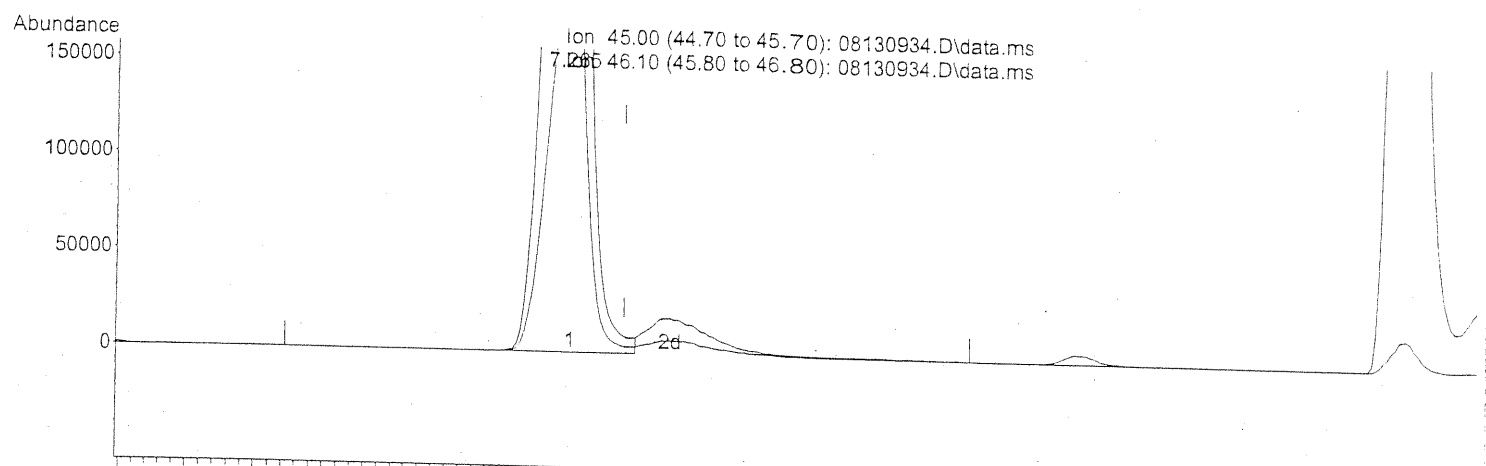
Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

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

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



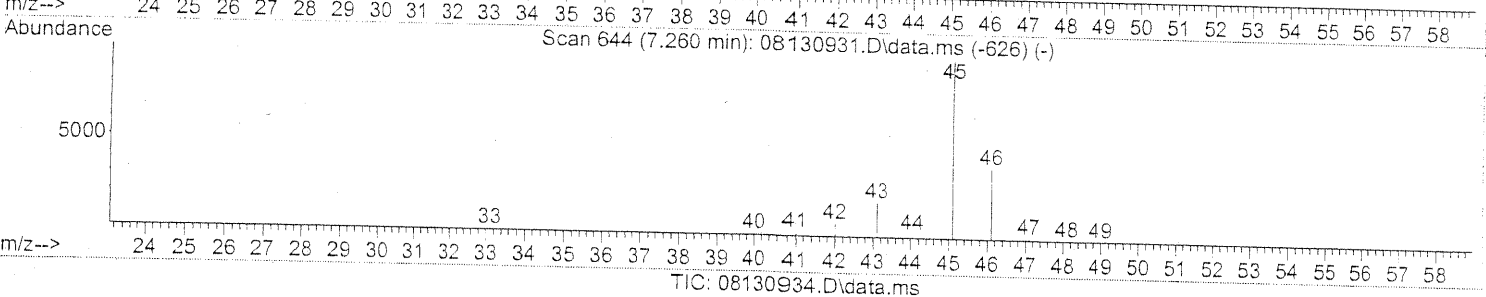
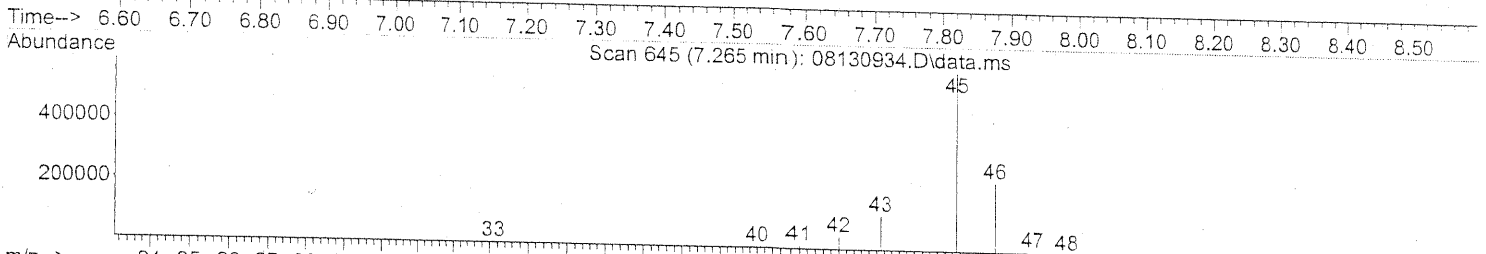
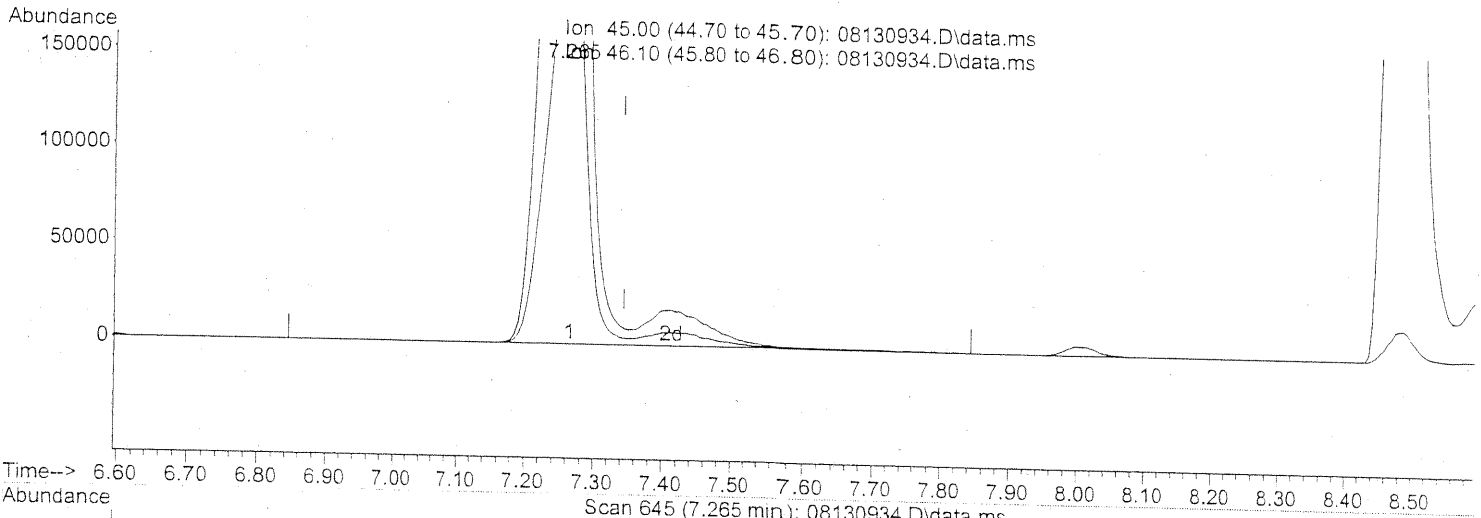
(10) Ethanol (T)
7.265min (-0.080) 110.49ng
response 2112003

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

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

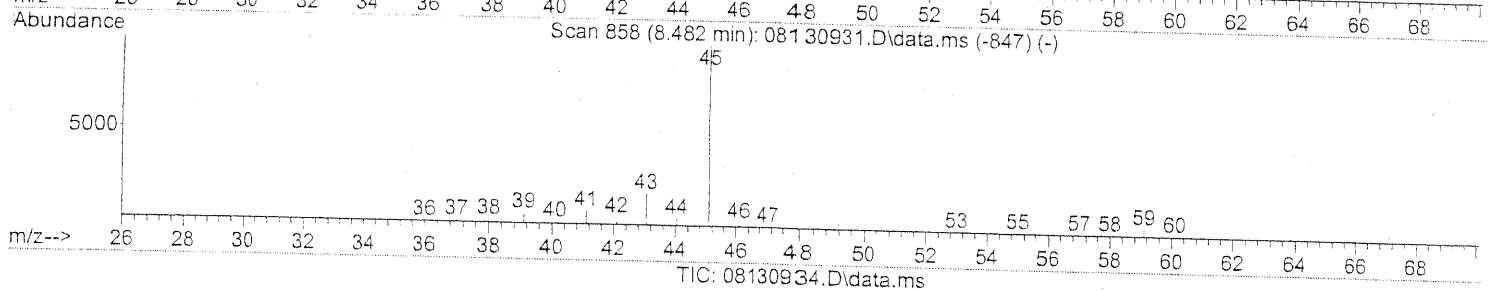
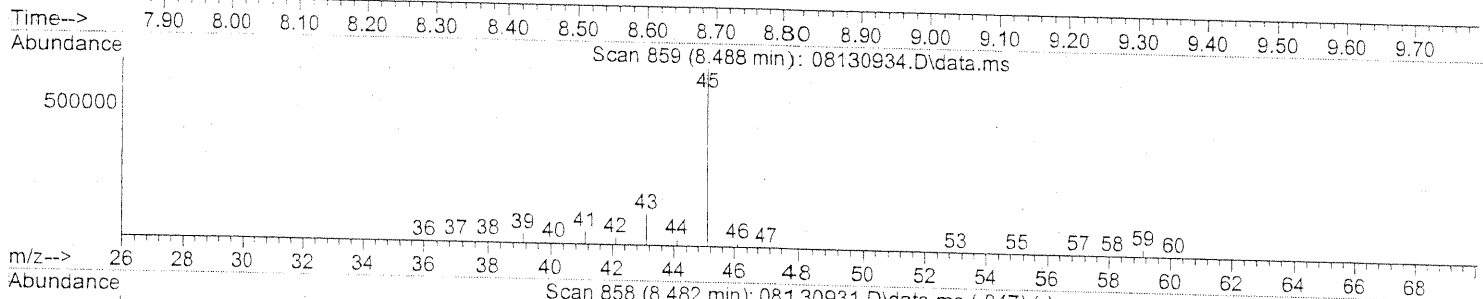
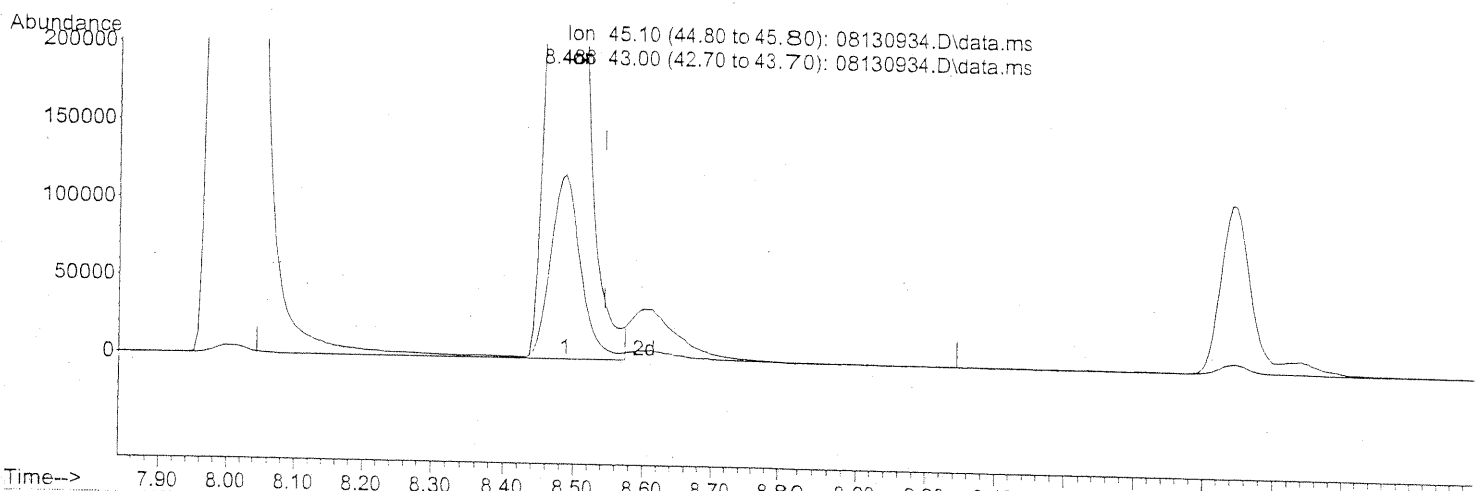
response 2232593

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

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

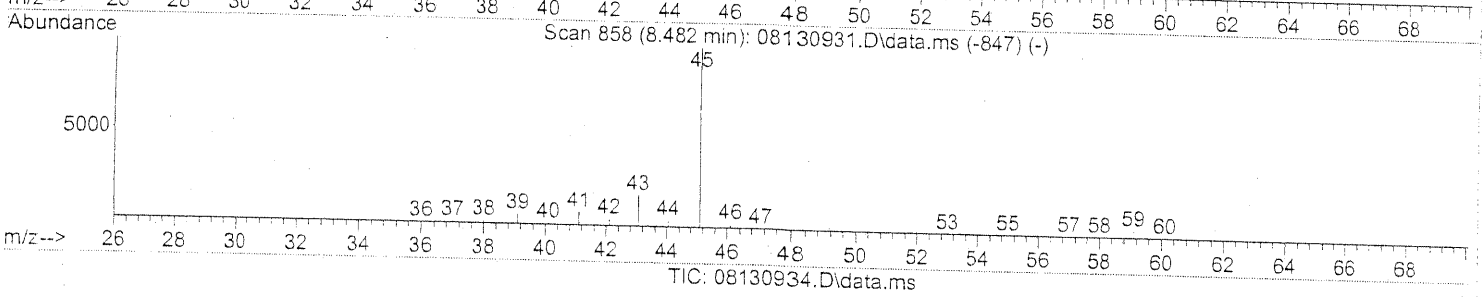
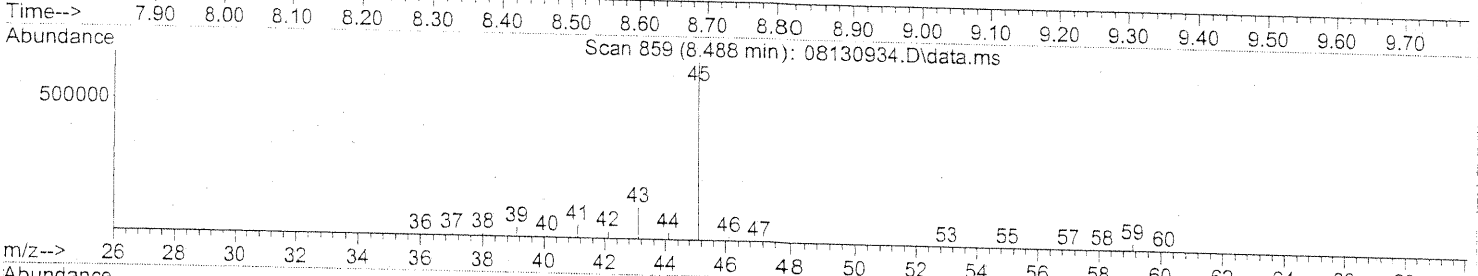
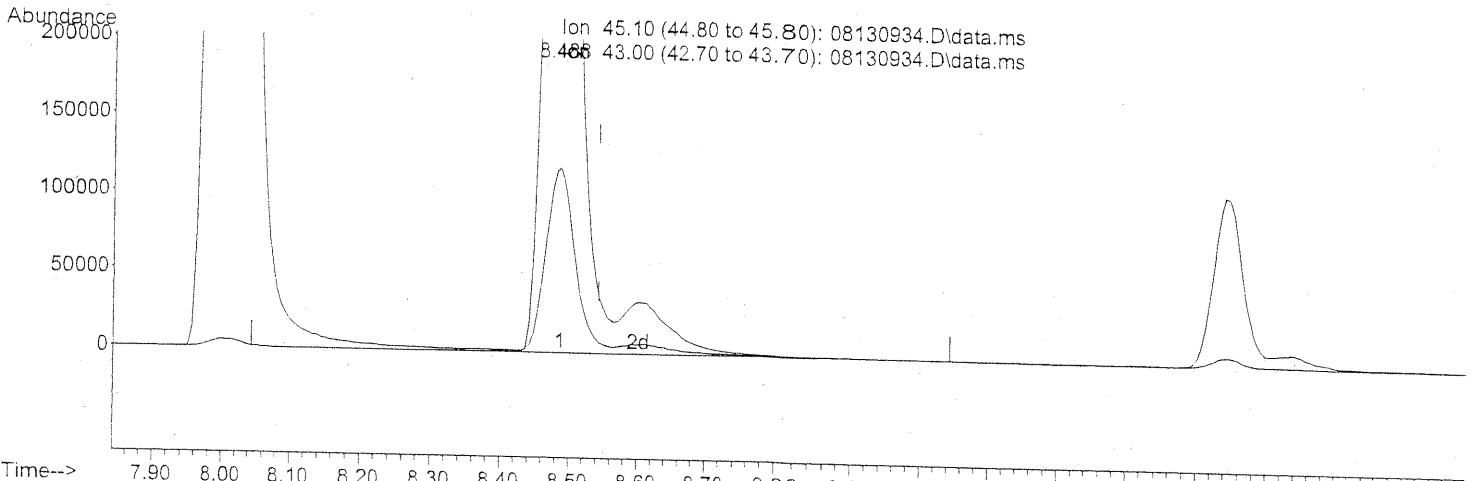
response 1993602

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

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
 Cam 8/13/09
 14

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-tetrafluoro	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 Al	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 Chlor	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 (Isooctan	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_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:04:57 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

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	98	-0.01
2	T Propene	2.193	2.159	1.6	92	0.00
3	T Dichlorodifluoromethane (CF	3.130	2.627	16.1	88	0.00
4	T Chloromethane	2.918	2.513	13.9	84	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.654	1.423	14.0	87	0.00
6	T Vinyl Chloride	2.878	2.448	14.9	87	0.00
7	T 1,3-Butadiene	2.044	1.948	4.7	92	0.00
8	T Bromomethane	1.505	1.346	10.6	88	-0.01
9	T Chloroethane	1.428	1.258	11.9	89	0.00
10	T Ethanol	1.376	1.208	12.2	85	-0.07
11	T Acetonitrile	3.357	3.002	10.6	89	-0.04
12	T Acrolein	0.897	0.871	2.9	88	-0.02
13	T Acetone	1.400	1.170	16.4	91	-0.04
14	T Trichlorofluoromethane	2.677	2.366	11.6	88	-0.01
15	T 2-Propanol (Isopropanol)	3.834	2.858	25.5	79	-0.05
16	T Acrylonitrile	2.033	2.089	-2.8	88	-0.03
17	T 1,1-Dichloroethene	1.571	1.355	13.7	88	-0.01
18	T 2-Methyl-2-Propanol (tert-B	3.892	3.829	1.6	88	-0.04
19	T Methylene Chloride	1.747	1.440	17.6	89	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.342	2.328	0.6	92	-0.02
21	T Trichlorotrifluoroethane	1.198	1.096	8.5	88	-0.01
22	T Carbon Disulfide	6.163	5.448	11.6	89	-0.01
23	T trans-1,2-Dichloroethene	2.411	2.236	7.3	89	-0.01
24	T 1,1-Dichloroethane	2.952	2.688	8.9	90	-0.02
25	T Methyl tert-Butyl Ether	4.784	4.450	7.0	91	0.00
26	T Vinyl Acetate	0.303	0.334	-10.2	91	-0.03
27	T 2-Butanone (MEK)	0.976	1.019	-4.4	89	-0.03
28	T cis-1,2-Dichloroethene	2.250	2.072	7.9	90	-0.02
29	T Diisopropyl Ether	1.386	1.292	6.8	90	-0.01
30	T Ethyl Acetate	0.633	0.623	1.6	91	-0.03
31	T n-Hexane	3.085	2.802	9.2	93	-0.01
32	T Chloroform	2.582	2.345	9.2	90	-0.03
33	S 1,2-Dichloroethane-d4 (SS1)	1.768	1.806	-2.1	101	-0.02
34	T Tetrahydrofuran (THF)	1.015	0.987	2.8	91	-0.01
35	T Ethyl tert-Butyl Ether	1.977	1.833	7.3	89	-0.01
36	T 1,2-Dichloroethane	1.976	1.891	4.3	91	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	98	-0.01
38	T 1,1,1-Trichloroethane	0.455	0.410	9.9	89	-0.01

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Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:04:57 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

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	90	-0.03
40 T	1-Butanol	0.324	0.352	-8.6	89	-0.06
41 T	Benzene	1.344	1.168	13.1	90	-0.01
42 T	Carbon Tetrachloride	0.376	0.340	9.6	88	-0.01
43 T	Cyclohexane	0.521	0.472	9.4	90	-0.02
44 T	tert-Amyl Methyl Ether	0.945	0.884	6.5	91	-0.01
45 T	1,2-Dichloropropane	0.330	0.308	6.7	90	-0.02
46 T	Bromodichloromethane	0.393	0.377	4.1	90	-0.02
47 T	Trichloroethene	0.341	0.293	14.1	88	-0.02
48 T	1,4-Dioxane	0.239	0.246	-2.9	89	-0.02
49 T	2,2,4-Trimethylpentane (Iso	1.547	1.401	9.4	91	-0.02
50 T	Methyl Methacrylate	0.134	0.126	6.0	88	-0.02
51 T	n-Heptane	0.358	0.326	8.9	90	-0.01
52 T	cis-1,3-Dichloropropene	0.497	0.496	0.2	90	0.00
53 T	4-Methyl-2-pentanone	0.291	0.302	-3.8	90	-0.02
54 T	trans-1,3-Dichloropropene	0.435	0.454	-4.4	90	-0.02
55 T	1,1,2-Trichloroethane	0.287	0.273	4.9	89	-0.01
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	96	0.00
57 S	Toluene-d8 (SS2)	2.377	2.441	-2.7	99	-0.01
58 T	Toluene	2.881	2.632	8.6	90	-0.01
59 T	2-Hexanone	1.497	1.527	-2.0	91	-0.02
60 T	Dibromochloromethane	0.615	0.604	1.8	88	-0.01
61 T	1,2-Dibromoethane	0.648	0.647	0.2	89	-0.01
62 T	n-Butyl Acetate	1.634	1.771	-8.4	90	-0.02
63 T	n-Octane	0.642	0.617	3.9	91	-0.01
64 T	Tetrachloroethene	0.715	0.650	9.1	87	0.00
65 T	Chlorobenzene	1.769	1.604	9.3	89	-0.01
66 T	Ethylbenzene	3.111	2.941	5.5	90	0.00
67 T	m- & p-Xylenes	2.466	2.323	5.8	90	-0.02
68 T	Bromoform	0.534	0.543	-1.7	88	-0.01
69 T	Styrene	1.823	1.777	2.5	88	-0.01
70 T	o-Xylene	2.481	2.330	6.1	89	-0.02
71 T	n-Nonane	1.494	1.450	2.9	92	-0.01
72 T	1,1,2,2-Tetrachloroethane	1.066	1.049	1.6	90	-0.02
73 S	Bromofluorobenzene (SS3)	0.673	0.636	5.5	90	0.00
74 T	Cumene	3.217	3.004	6.6	89	0.00
75 T	alpha-Pinene	1.587	1.489	6.2	88	-0.01
76 T	n-Propylbenzene	3.975	3.742	5.9	89	-0.01

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em 9/1/09

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:04:57 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

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	2.807	6.8	86	0.00
78 T	4-Ethyltoluene	3.029	2.839	6.3	91	-0.01
79 T	1,3,5-Trimethylbenzene	2.505	2.301	8.1	89	-0.01
80 T	alpha-Methylstyrene	1.359	1.320	2.9	88	-0.02
81 T	2-Ethyltoluene	3.112	2.870	7.8	89	-0.02
82 T	1,2,4-Trimethylbenzene	2.660	2.546	4.3	89	-0.01
83 T	n-Decane	1.548	1.455	6.0	90	-0.02
84 T	Benzyl Chloride	2.058	2.148	-4.4	88	-0.02
85 T	1,3-Dichlorobenzene	1.377	1.264	8.2	88	-0.02
86 T	1,4-Dichlorobenzene	1.461	1.328	9.1	88	-0.01
87 T	sec-Butylbenzene	3.505	3.248	7.3	88	-0.01
88 T	4-Isopropyltoluene (p-Cymen	3.358	3.203	4.6	89	-0.01
89 T	1,2,3-Trimethylbenzene	2.688	2.546	5.3	88	-0.02
90 T	1,2-Dichlorobenzene	1.382	1.275	7.7	88	-0.01
91 T	d-Limonene	1.088	1.064	2.2	88	-0.01
92 T	1,2-Dibromo-3-Chloropropane	0.417	0.425	-1.9	88	-0.01
93 T	n-Undecane	1.600	1.521	4.9	90	0.00
94 T	1,2,4-Trichlorobenzene	0.966	0.887	8.2	88	-0.01
95 T	Naphthalene	3.568	3.321	6.9	89	0.00
96 T	n-Dodecane	1.790	1.718	4.0	90	0.00
97 T	Hexachlorobutadiene	0.552	0.506	8.3	87	0.00
98 T	Cyclohexanone	0.907	0.960	-5.8	88	-0.02
99 T	tert-Butylbenzene	2.638	2.486	5.8	88	-0.01
100 T	n-Butylbenzene	2.789	2.620	6.1	88	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

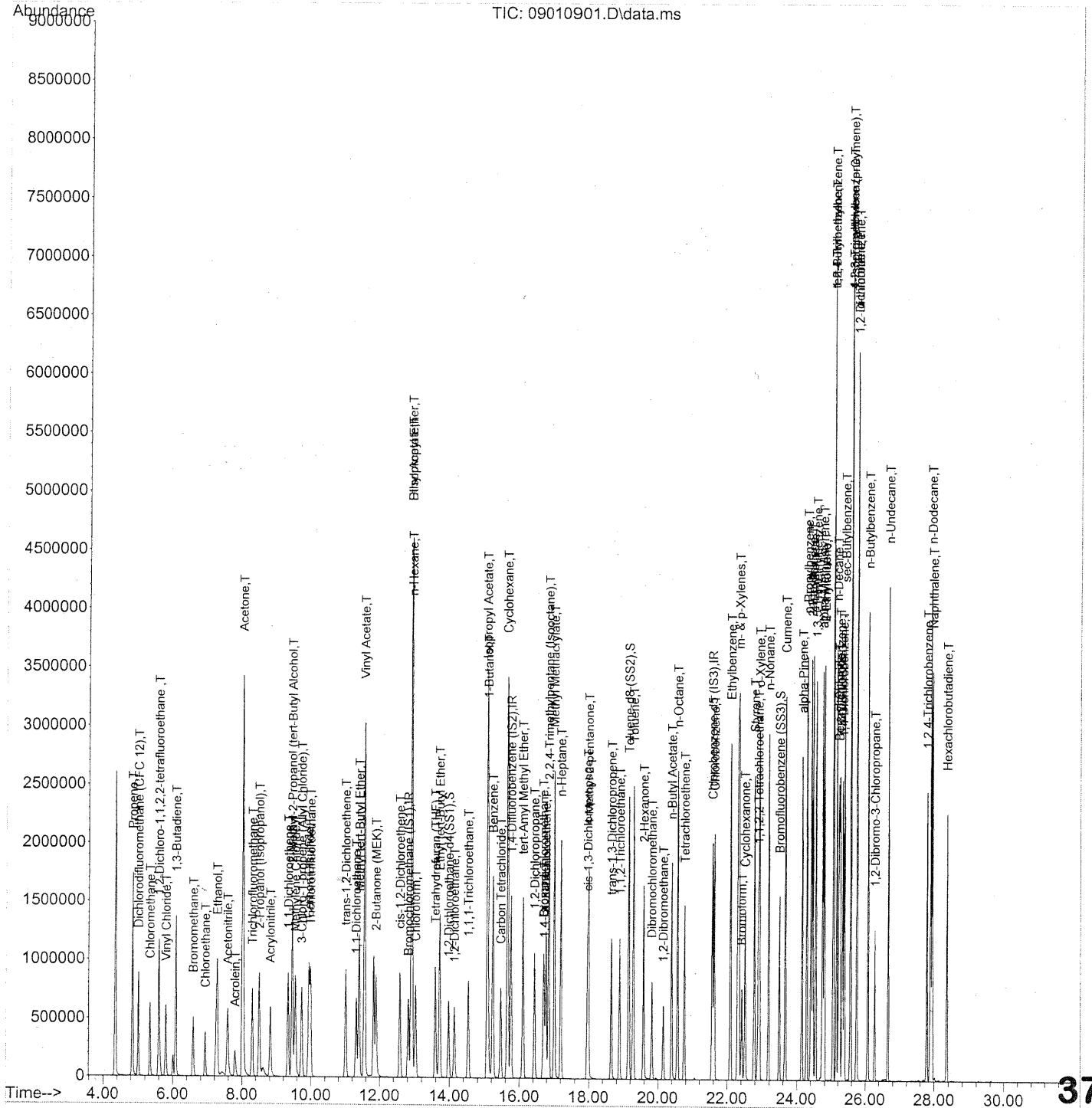
Em 9/1/09

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Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:04:57 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_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:04:57 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)	12.82	130	356279	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.76	114	1833347	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.56	82	862658	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	643560	25.546	ng	-0.02	✓
Spiked Amount	25.000		Recovery	=	102.20%		
57) Toluene-d8 (SS2)	19.15	98	2105411	25.673	ng	-0.01	✓
Spiked Amount	25.000		Recovery	=	102.68%		
73) Bromofluorobenzene (SS3)	23.49	174	548737	23.627	ng	0.00	✓
Spiked Amount	25.000		Recovery	=	94.52%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	824532	26.382	ng	97
3) Dichlorodifluoromethan...	5.01	85	984566	22.070	ng	100
4) Chloromethane	5.34	50	895243	21.532	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	537451	22.798	ng	100
6) Vinyl Chloride	5.80	62	882552	21.518	ng	98
7) 1,3-Butadiene	6.09	54	832920	28.590	ng	97
8) Bromomethane	6.59	94	489016	22.801	ng	99
9) Chloroethane	6.93	64	453485	22.287	ng	100
10) Ethanol	7.27	45	2238399m	114.179	ng	
11) Acetonitrile	7.58	41	1125278	23.520	ng	99
12) Acrolein	7.79	56	335082	26.209	ng	98
13) Acetone	8.01	58	2300419	115.312	ng	93
14) Trichlorofluoromethane	8.29	101	886847	23.247	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	1926721m	35.266	ng	
16) Acrylonitrile	8.81	53	789025	27.229	ng	98
17) 1,1-Dichloroethene	9.33	96	531158	23.725	ng	96
18) 2-Methyl-2-Propanol (t...	9.45	59	2755828	49.686	ng	97
19) Methylene Chloride	9.54	84	550012	22.097	ng	87
20) 3-Chloro-1-propene (Al...	9.73	41	895828	26.839	ng	88
21) Trichlorotrifluoroethane	9.99	151	429713	25.167	ng	96
22) Carbon Disulfide	9.94	76	2080893	23.690	ng	98
23) trans-1,2-Dichloroethene	11.01	61	844324	24.576	ng	91
24) 1,1-Dichloroethane	11.32	63	1015078	24.125	ng	99
25) Methyl tert-Butyl Ether	11.40	73	1731398	25.394	ng	95
26) Vinyl Acetate	11.56	86	599324	138.709	ng	# 63
27) 2-Butanone (MEK)	11.89	72	399353	28.714	ng	# 78
28) cis-1,2-Dichloroethene	12.58	61	806139	25.146	ng	92
29) Diisopropyl Ether	12.91	87	493345	24.985	ng	# 59
30) Ethyl Acetate	12.91	61	473192	52.466	ng	97
31) n-Hexane	12.93	57	1090278	24.799	ng	97

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Em 9/1/09

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:04:57 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	13.03	83	895599	24.340	ng	99
34) Tetrahydrofuran (THF)	13.58	72	386991	26.764	ng #	85
35) Ethyl tert-Butyl Ether	13.71	87	674118	23.929	ng #	85
36) 1,2-Dichloroethane	14.14	62	714185	25.365	ng	99
38) 1,1,1-Trichloroethane	14.54	97	790612	23.711	ng	99
39) Isopropyl Acetate	15.07	61	802201	53.614	ng #	77
40) 1-Butanol	15.09	56	1336969	56.275	ng	84
41) Benzene	15.23	78	2270635	23.030	ng	99
42) Carbon Tetrachloride	15.46	117	673194	24.427	ng	99
43) Cyclohexane	15.66	84	1863524	48.805	ng	87
44) tert-Amyl Methyl Ether	16.10	73	1685945	24.329	ng	98
45) 1,2-Dichloropropane	16.43	63	594489	24.579	ng	99
46) Bromodichloromethane	16.70	83	745794	25.857	ng	98
47) Trichloroethene	16.77	130	569263	22.740	ng	99
48) 1,4-Dioxane	16.72	88	483420	27.567	ng	88
49) 2,2,4-Trimethylpentane...	16.86	57	2671933	23.547	ng	95
50) Methyl Methacrylate	17.02	100	494216	50.164	ng	89
51) n-Heptane	17.21	71	634366	24.169	ng	94
52) cis-1,3-Dichloropropene	17.95	75	901841	24.746	ng	100
53) 4-Methyl-2-pentanone	17.98	58	608396	28.556	ng	94
54) trans-1,3-Dichloropropene	18.64	75	914583	28.686	ng	100
55) 1,1,2-Trichloroethane	18.89	97	527359	25.036	ng	98
58) Toluene	19.28	91	2452427	24.669	ng	100
59) 2-Hexanone	19.58	43	1448735	28.039	ng	98
60) Dibromochloromethane	19.82	129	600045	28.267	ng	100
61) 1,2-Dibromoethane	20.15	107	591671	26.444	ng	100
62) n-Butyl Acetate	20.39	43	1680914	29.816	ng	98
63) n-Octane	20.56	57	570799	25.758	ng	91
64) Tetrachloroethene	20.76	166	571987	23.186	ng	99
65) Chlorobenzene	21.62	112	1494007	24.471	ng	100
66) Ethylbenzene	22.09	91	2689279	25.055	ng	98
67) m- & p-Xylenes	22.33	91	4167350	48.975	ng	99
68) Bromoform	22.41	173	483645	26.248	ng	100
69) Styrene	22.77	104	1643331	26.127	ng	100
70) o-Xylene	22.92	91	2130809	24.892	ng	99
71) n-Nonane	23.17	43	1326311	25.728	ng	92
72) 1,1,2,2-Tetrachloroethane	22.89	83	970258	26.386	ng	100
74) Cumene	23.66	105	2674180	24.094	ng	98
75) alpha-Pinene	24.15	93	1299812	23.736	ng	99
76) n-Propylbenzene	24.28	91	3330980	24.282	ng	99
77) 3-Ethyltoluene	24.41	105	2644313	25.431	ng	99
78) 4-Ethyltoluene	24.46	105	2674797	25.588	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	2167223	25.074	ng	100

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Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:04:57 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

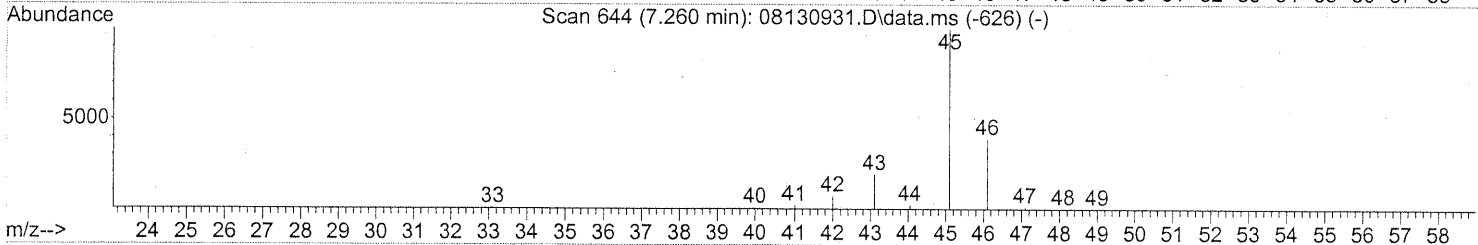
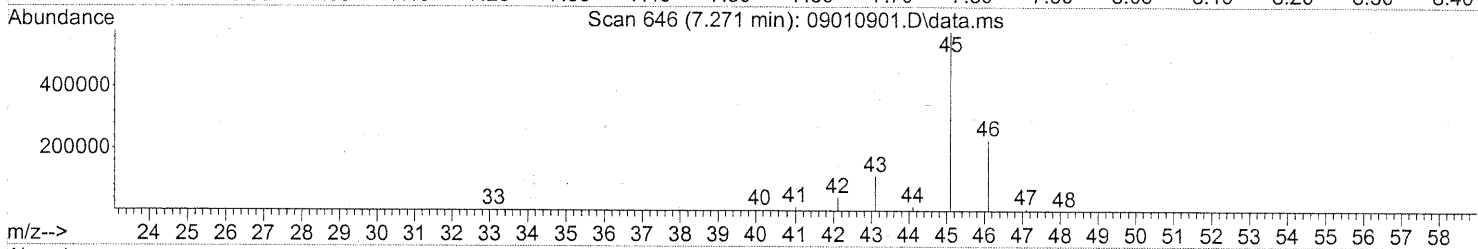
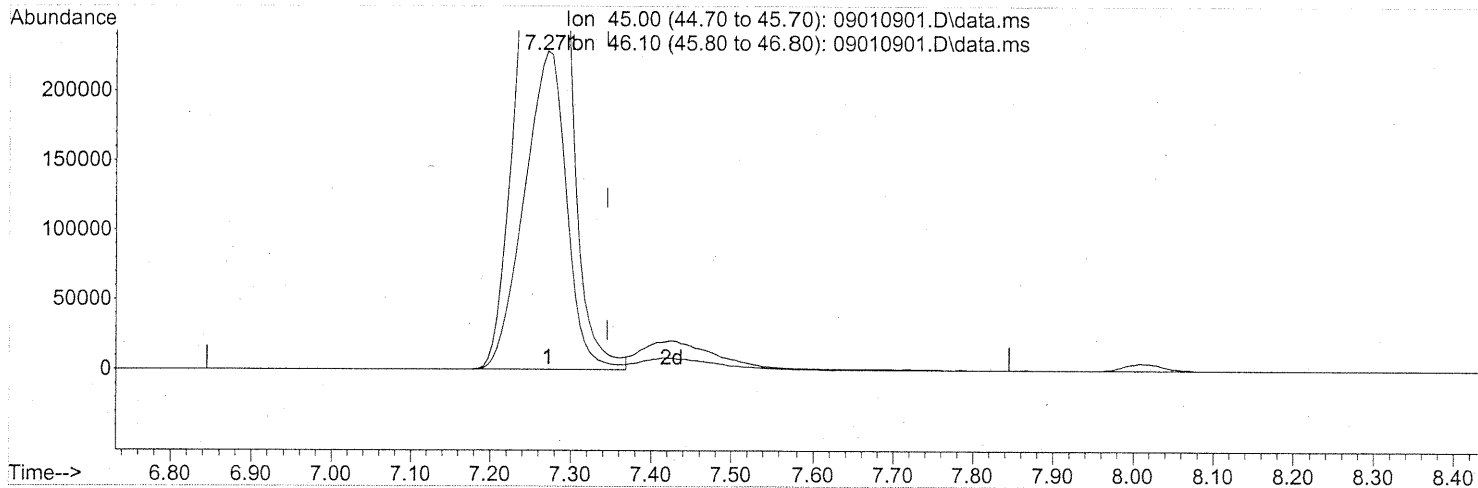
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	1220423	26.022	ng	98
81) 2-Ethyltoluene	24.79	105	2604616	24.257	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2328152	25.369	ng	99
83) n-Decane	25.15	57	1355172	25.370	ng	94
84) Benzyl Chloride	25.22	91	2038148	28.707	ng	98
85) 1,3-Dichlorobenzene	25.25	146	1190710	25.062	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1214521	24.093	ng	99
87) sec-Butylbenzene	25.38	105	2969578	24.556	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	2851128	24.607	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2354457	25.383	ng	98
90) 1,2-Dichlorobenzene	25.75	146	1166318	24.449	ng	100
91) d-Limonene	25.74	68	1002385	26.697	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.26	157	403001	27.974	ng	94
93) n-Undecane	26.65	57	1433168	25.966	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	856541	25.701	ng	99
95) Naphthalene	27.94	128	3037110	24.665	ng	100
96) n-Dodecane	27.89	57	1470495	23.801	ng	96
97) Hexachlorobutadiene	28.36	225	480390	25.242	ng	99
98) Cyclohexanone	22.51	55	811268	25.911	ng	95
99) tert-Butylbenzene	25.05	119	2272962	24.974	ng	99
100) n-Butylbenzene	26.07	91	2467658	25.638	ng	100

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 09:38:43 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: 09010901.D\data.ms

(10) Ethanol (T)

7.271min (-0.074) 107.26ng

response 2102736

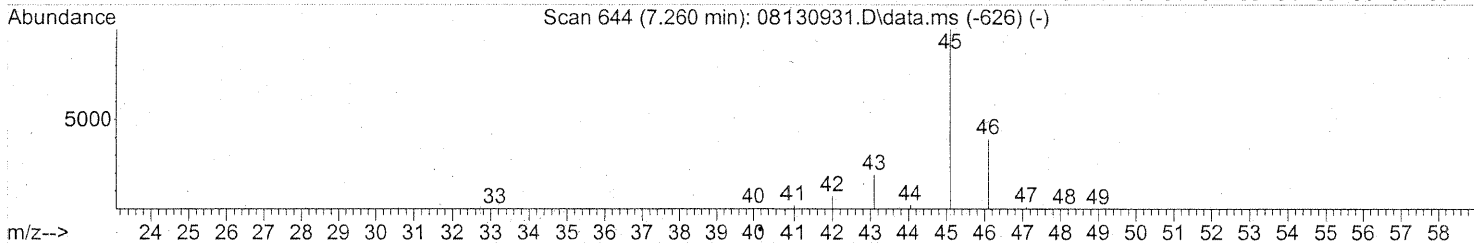
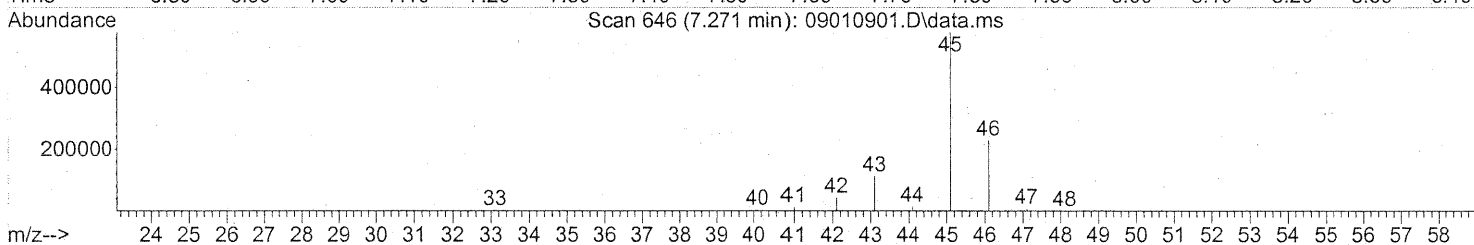
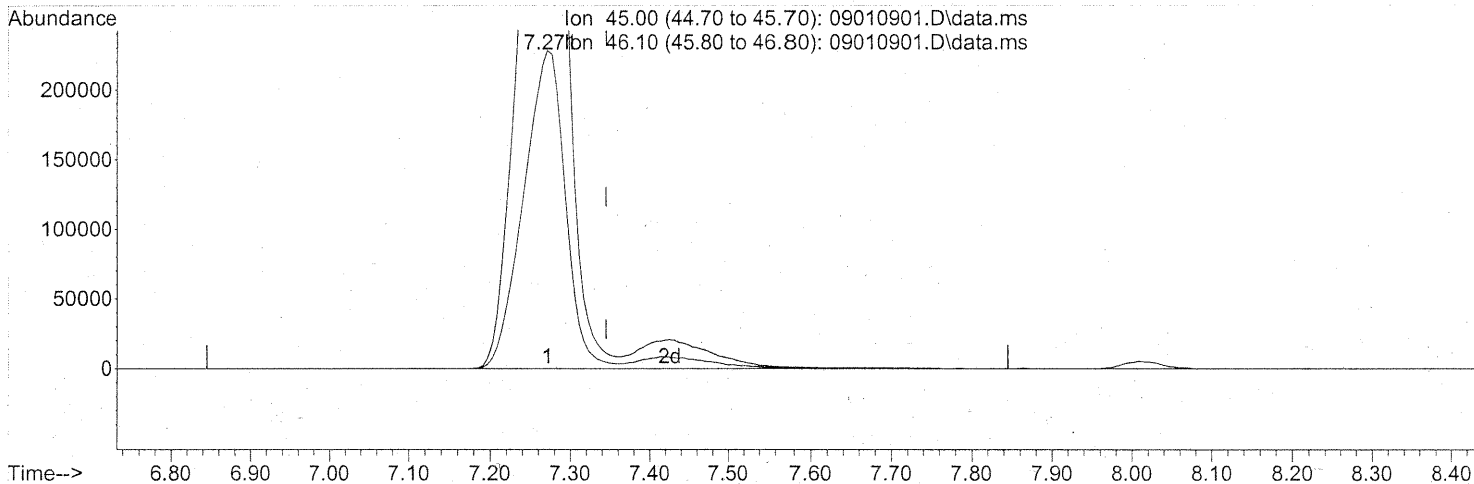
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 09:38:43 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: 09010901.D\data.ms

(10) Ethanol (T)

7.271min (-0.074) 114.18ng m

response 2238399

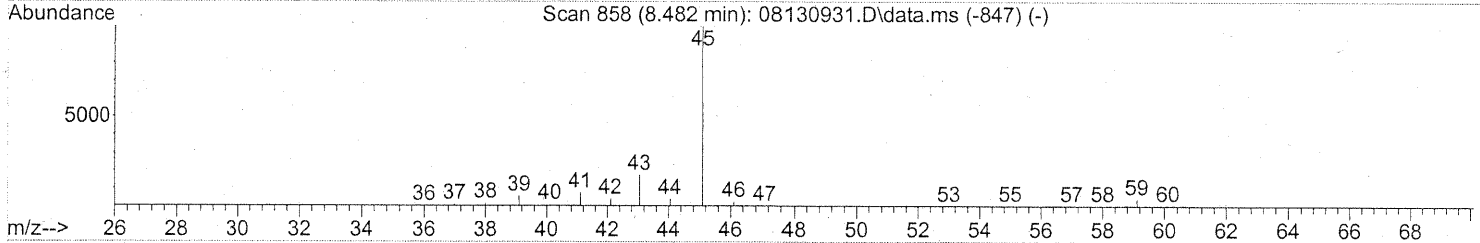
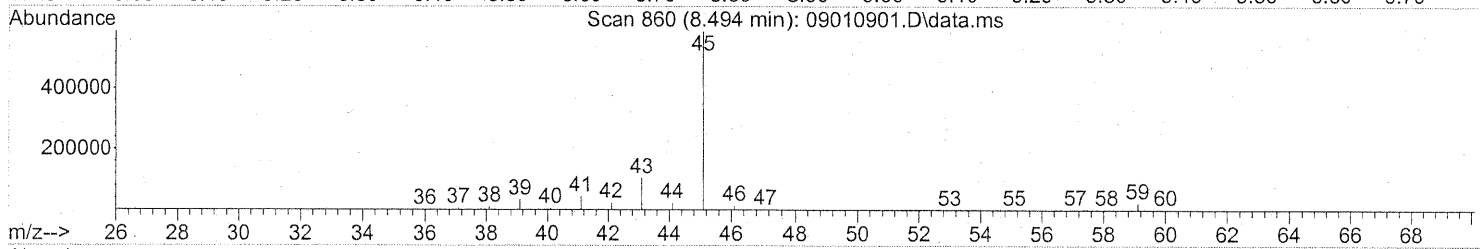
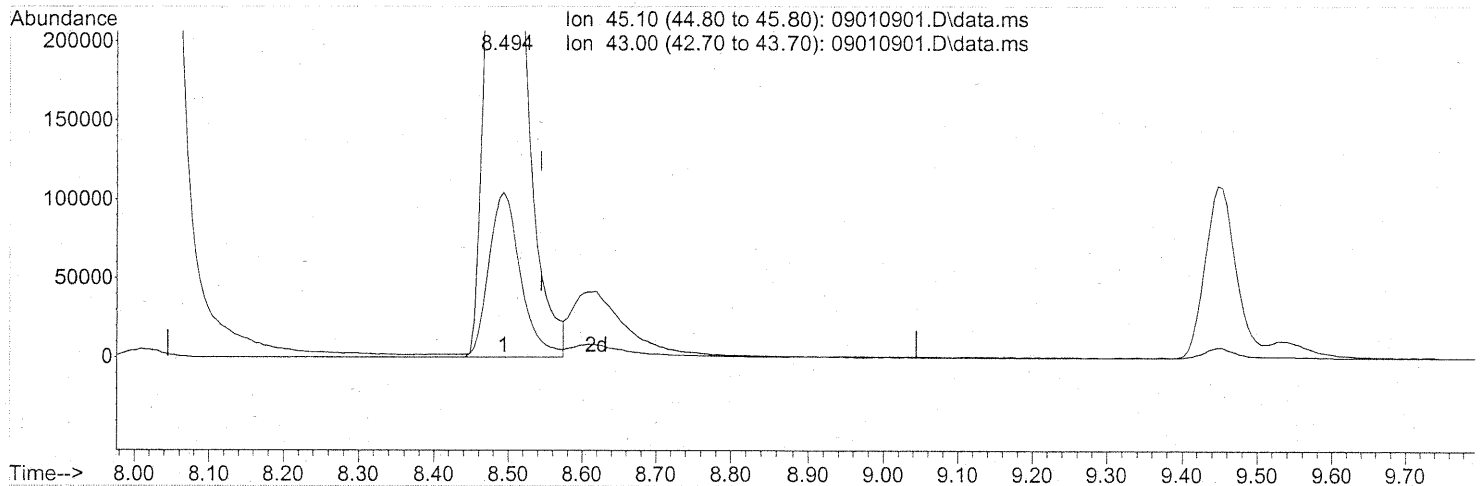
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.85
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
Em 9/1/09
— 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 09:38:43 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) 31.26ng

response 1708112

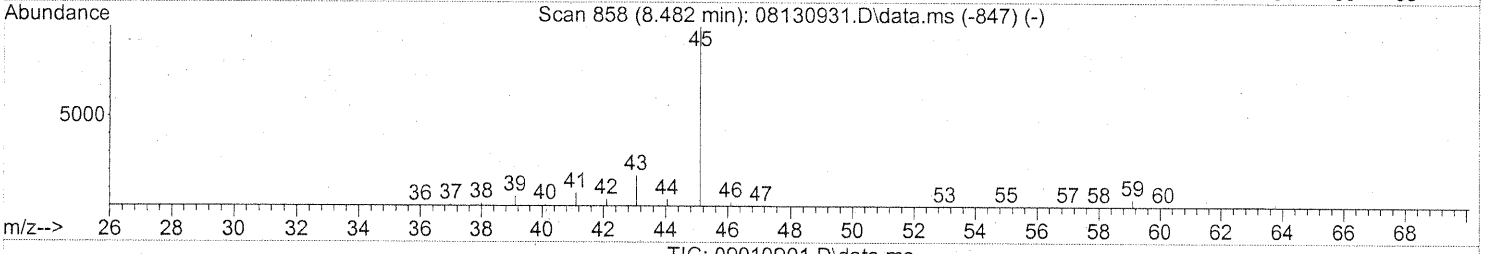
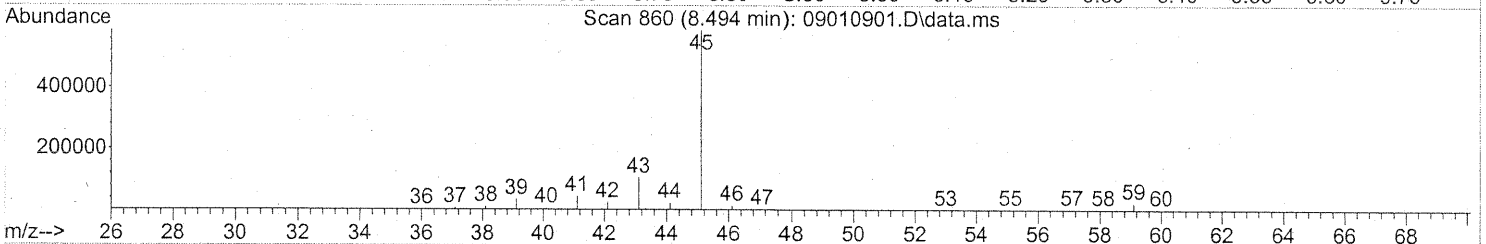
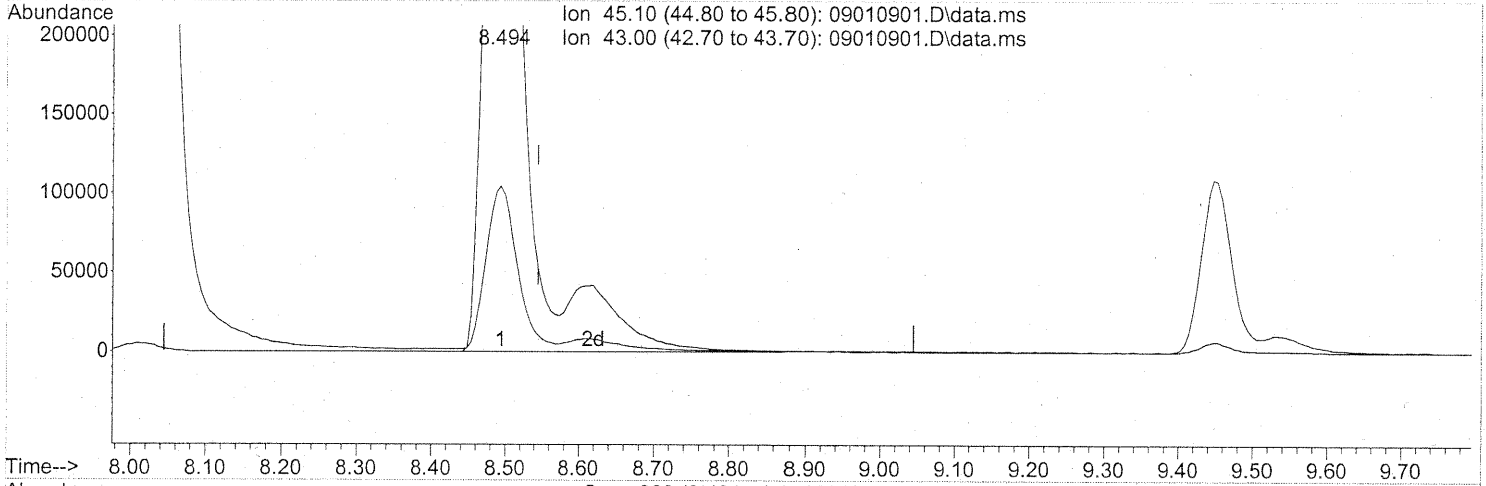
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.48
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 09:38:43 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) 35.27ng m

response 1926721

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	15.50
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
Em 9/1/09
— 9/2/09

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020901.D
 Acq On : 2 Sep 2009 6:17
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 09:05:21 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	95	-0.02
2	T Propene	2.193	2.414	-10.1	100	0.00
3	T Dichlorodifluoromethane (CF	3.130	2.781	11.2	90	0.00
4	T Chloromethane	2.918	2.693	7.7	88	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.654	1.536	7.1	91	-0.01
6	T Vinyl Chloride	2.878	2.663	7.5	92	-0.01
7	T 1,3-Butadiene	2.044	2.106	-3.0	96	0.00
8	T Bromomethane	1.505	1.438	4.5	92	-0.01
9	T Chloroethane	1.428	1.361	4.7	93	0.00
10	T Ethanol	1.376	1.287	6.5	87	-0.07
11	T Acetonitrile	3.357	3.206	4.5	92	-0.04
12	T Acrolein	0.897	0.924	-3.0	91	-0.02
13	T Acetone	1.400	1.259	10.1	95	-0.04
14	T Trichlorofluoromethane	2.677	2.524	5.7	91	-0.01
15	T 2-Propanol (Isopropanol)	3.834	2.784	27.4	74	-0.05
16	T Acrylonitrile	2.033	2.224	-9.4	91	-0.03
17	T 1,1-Dichloroethene	1.571	1.437	8.5	91	-0.02
18	T 2-Methyl-2-Propanol (tert-B	3.892	3.770	3.1	84	-0.04
19	T Methylene Chloride	1.747	1.529	12.5	91	-0.01
20	T 3-Chloro-1-propene (Allyl C	2.342	2.461	-5.1	94	-0.02
21	T Trichlorotrifluoroethane	1.198	1.152	3.8	90	-0.01
22	T Carbon Disulfide	6.163	5.738	6.9	91	-0.01
23	T trans-1,2-Dichloroethene	2.411	2.362	2.0	92	-0.01
24	T 1,1-Dichloroethane	2.952	2.838	3.9	92	-0.02
25	T Methyl tert-Butyl Ether	4.784	4.685	2.1	92	-0.01
26	T Vinyl Acetate	0.303	0.345	-13.9	91	-0.03
27	T 2-Butanone (MEK)	0.976	1.074	-10.0	91	-0.03
28	T cis-1,2-Dichloroethene	2.250	2.179	3.2	92	-0.02
29	T Diisopropyl Ether	1.386	1.367	1.4	92	-0.01
30	T Ethyl Acetate	0.633	0.657	-3.8	93	-0.03
31	T n-Hexane	3.085	2.974	3.6	96	-0.01
32	T Chloroform	2.582	2.457	4.8	91	-0.03
33	S 1,2-Dichloroethane-d4 (SS1)	1.768	1.805	-2.1	97	-0.02
34	T Tetrahydrofuran (THF)	1.015	1.030	-1.5	92	-0.01
35	T Ethyl tert-Butyl Ether	1.977	1.931	2.3	91	-0.01
36	T 1,2-Dichloroethane	1.976	1.981	-0.3	93	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	95	-0.02
38	T 1,1,1-Trichloroethane	0.455	0.436	4.2	92	-0.01

Em 9/2/09

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Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020901.D
 Acq On : 2 Sep 2009 6:17
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 09:05:21 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	0.220	-7.8	91	-0.03
40 T	1-Butanol	0.324	0.370	-14.2	90	-0.06
41 T	Benzene	1.344	1.235	8.1	91	-0.01
42 T	Carbon Tetrachloride	0.376	0.362	3.7	91	-0.01
43 T	Cyclohexane	0.521	0.499	4.2	91	-0.02
44 T	tert-Amyl Methyl Ether	0.945	0.929	1.7	92	-0.01
45 T	1,2-Dichloropropane	0.330	0.325	1.5	92	-0.02
46 T	Bromodichloromethane	0.393	0.397	-1.0	91	-0.02
47 T	Trichloroethene	0.341	0.310	9.1	90	-0.02
48 T	1,4-Dioxane	0.239	0.258	-7.9	90	-0.02
49 T	2,2,4-Trimethylpentane (Iso)	1.547	1.479	4.4	92	-0.02
50 T	Methyl Methacrylate	0.134	0.133	0.7	90	-0.02
51 T	n-Heptane	0.358	0.345	3.6	91	-0.01
52 T	cis-1,3-Dichloropropene	0.497	0.522	-5.0	91	-0.01
53 T	4-Methyl-2-pentanone	0.291	0.315	-8.2	91	-0.02
54 T	trans-1,3-Dichloropropene	0.435	0.476	-9.4	91	-0.02
55 T	1,1,2-Trichloroethane	0.287	0.288	-0.3	90	-0.01
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	93	0.00
57 S	Toluene-d8 (SS2)	2.377	2.435	-2.4	95	-0.01
58 T	Toluene	2.881	2.759	4.2	90	-0.01
59 T	2-Hexanone	1.497	1.610	-7.5	93	-0.02
60 T	Dibromochloromethane	0.615	0.636	-3.4	89	-0.01
61 T	1,2-Dibromoethane	0.648	0.682	-5.2	90	-0.01
62 T	n-Butyl Acetate	1.634	1.857	-13.6	91	-0.02
63 T	n-Octane	0.642	0.650	-1.2	92	-0.01
64 T	Tetrachloroethene	0.715	0.684	4.3	89	0.00
65 T	Chlorobenzene	1.769	1.687	4.6	90	-0.01
66 T	Ethylbenzene	3.111	3.085	0.8	91	0.00
67 T	m- & p-Xylenes	2.466	2.445	0.9	91	-0.02
68 T	Bromoform	0.534	0.570	-6.7	89	-0.01
69 T	Styrene	1.823	1.872	-2.7	89	-0.01
70 T	o-Xylene	2.481	2.457	1.0	91	-0.02
71 T	n-Nonane	1.494	1.521	-1.8	93	-0.01
72 T	1,1,2,2-Tetrachloroethane	1.066	1.105	-3.7	91	-0.02
73 S	Bromofluorobenzene (SS3)	0.673	0.643	4.5	88	0.00
74 T	Cumene	3.217	3.168	1.5	90	0.00
75 T	alpha-Pinene	1.587	1.570	1.1	89	-0.01
76 T	n-Propylbenzene	3.975	3.950	0.6	90	-0.01

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Em 9/2/09

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020901.D
 Acq On : 2 Sep 2009 6:17
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 09:05:21 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	2.975	1.3	88	0.00
78 T	4-Ethyltoluene	3.029	2.984	1.5	92	-0.01
79 T	1,3,5-Trimethylbenzene	2.505	2.418	3.5	90	-0.01
80 T	alpha-Methylstyrene	1.359	1.388	-2.1	89	-0.02
81 T	2-Ethyltoluene	3.112	3.017	3.1	90	-0.02
82 T	1,2,4-Trimethylbenzene	2.660	2.683	-0.9	90	-0.01
83 T	n-Decane	1.548	1.536	0.8	91	-0.02
84 T	Benzyl Chloride	2.058	2.257	-9.7	89	-0.02
85 T	1,3-Dichlorobenzene	1.377	1.335	3.1	89	-0.02
86 T	1,4-Dichlorobenzene	1.461	1.392	4.7	89	-0.01
87 T	sec-Butylbenzene	3.505	3.408	2.8	89	-0.01
88 T	4-Isopropyltoluene (p-Cymen	3.358	3.366	-0.2	90	-0.02
89 T	1,2,3-Trimethylbenzene	2.688	2.689	-0.0	90	-0.02
90 T	1,2-Dichlorobenzene	1.382	1.337	3.3	89	-0.01
91 T	d-Limonene	1.088	1.119	-2.8	89	-0.01
92 T	1,2-Dibromo-3-Chloropropane	0.417	0.446	-7.0	88	-0.01
93 T	n-Undecane	1.600	1.604	-0.3	91	0.00
94 T	1,2,4-Trichlorobenzene	0.966	0.949	1.8	90	-0.01
95 T	Naphthalene	3.568	3.546	0.6	91	0.00
96 T	n-Dodecane	1.790	1.829	-2.2	92	0.00
97 T	Hexachlorobutadiene	0.552	0.537	2.7	89	0.00
98 T	Cyclohexanone	0.907	1.007	-11.0	89	-0.02
99 T	tert-Butylbenzene	2.638	2.617	0.8	90	-0.01
100 T	n-Butylbenzene	2.789	2.753	1.3	89	-0.01

(#) = Out of Range

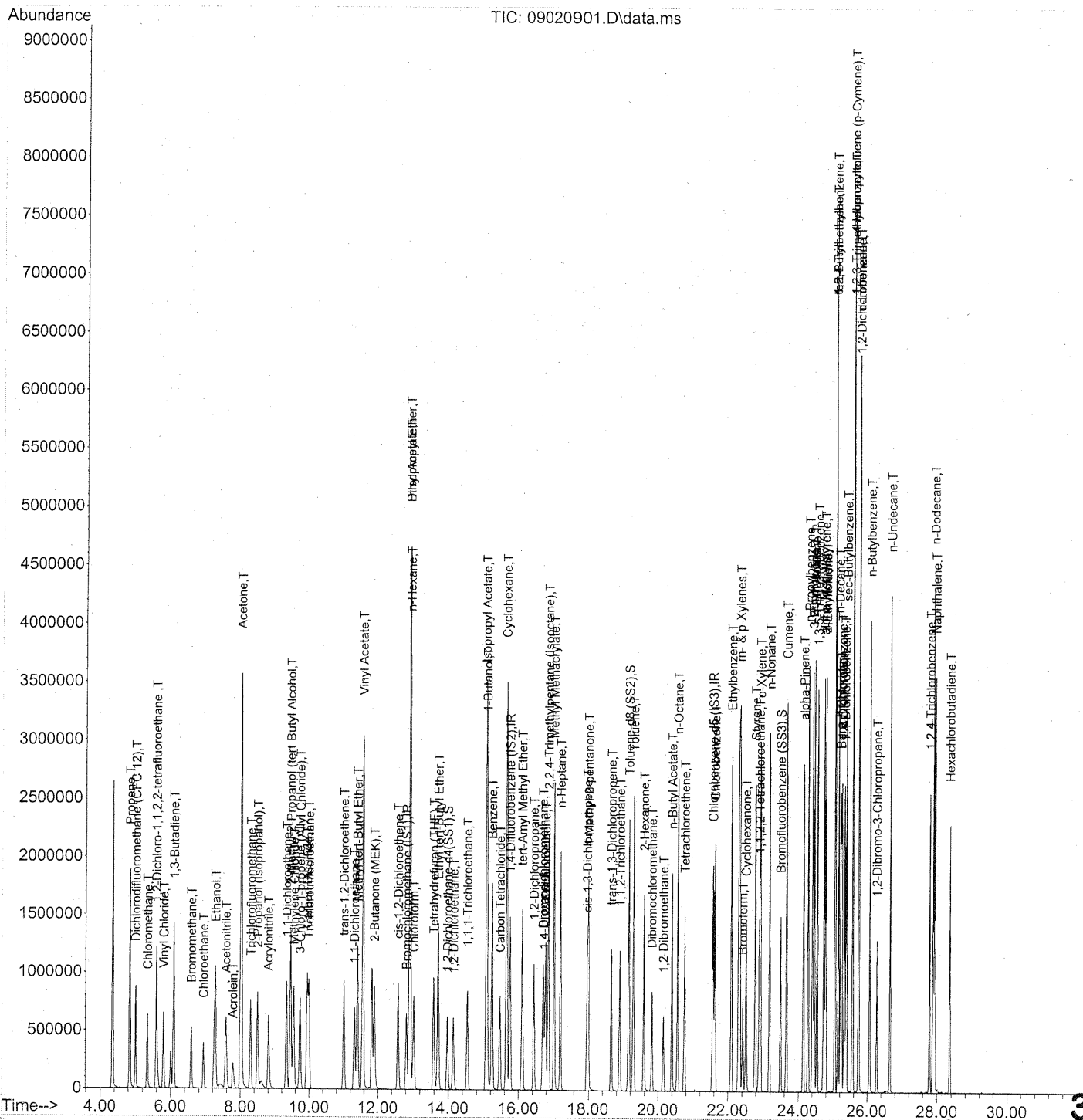
SPCC's out = 0 CCC's out = 0

Em 9/2/09

385

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020901.D
 Acq On : 2 Sep 2009 6:17
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 09:05:21 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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_09\02\
 Data File : 09020901.D
 Acq On : 2 Sep 2009 6:17
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 09:05:21 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	345106	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1765997	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	830627	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	622789	25.522	ng	-0.02	
Spiked Amount	25.000		Recovery	=	102.08%		✓
57) Toluene-d8 (SS2)	19.15	98	2022361	25.611	ng	-0.01	✓
Spiked Amount	25.000		Recovery	=	102.44%		✓
73) Bromofluorobenzene (SS3)	23.49	174	533688	23.865	ng	0.00	✓
Spiked Amount	25.000		Recovery	=	95.44%		✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	893153	29.503	ng	97
3) Dichlorodifluoromethan...	5.01	85	1009530	23.362	ng	99
4) Chloromethane	5.34	50	929540	23.080	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	561808	24.603	ng	99
6) Vinyl Chloride	5.80	62	929999	23.409	ng	99
7) 1,3-Butadiene	6.09	54	872220	30.909	ng	97
8) Bromomethane	6.59	94	506051	24.360	ng	99
9) Chloroethane	6.93	64	475254	24.113	ng	100
10) Ethanol	7.27	45	2309585m	121.624	ng	
11) Acetonitrile	7.58	41	1164119	25.120	ng	99
12) Acrolein	7.79	56	344457	27.815	ng	98
13) Acetone	8.01	58	2397766	124.083	ng	93
14) Trichlorofluoromethane	8.29	101	916405	24.799	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	1817966m	34.353	ng	
16) Acrylonitrile	8.81	53	813536	28.984	ng	99
17) 1,1-Dichloroethene	9.33	96	545656	25.162	ng	95
18) 2-Methyl-2-Propanol (t...	9.45	59	2628396	48.923	ng	97
19) Methylene Chloride	9.55	84	565804	23.468	ng	86
20) 3-Chloro-1-propene (Al...	9.73	41	917335	28.373	ng	88
21) Trichlorotrifluoroethane	9.99	151	437381	26.445	ng	96
22) Carbon Disulfide	9.94	76	2122936	24.952	ng	98
23) trans-1,2-Dichloroethene	11.01	61	864143	25.967	ng	92
24) 1,1-Dichloroethane	11.32	63	1038134	25.472	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1765515	26.733	ng	95
26) Vinyl Acetate	11.56	86	599624	143.271	ng	# 62
27) 2-Butanone (MEK)	11.89	72	407757	30.268	ng	# 82
28) cis-1,2-Dichloroethene	12.58	61	821084	26.441	ng	91
29) Diisopropyl Ether	12.91	87	505637	26.437	ng	# 61
30) Ethyl Acetate	12.91	61	483480	55.343	ng	96
31) n-Hexane	12.93	57	1120655	26.316	ng	93

EM 9/2/09

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020901.D
 Acq On : 2 Sep 2009 6:17
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 09:05:21 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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	908951	25.502	ng	100
34) Tetrahydrofuran (THF)	13.58	72	391003	27.917	ng #	85
35) Ethyl tert-Butyl Ether	13.71	87	687566	25.196	ng #	85
36) 1,2-Dichloroethane	14.14	62	724575	26.567	ng	99
38) 1,1,1-Trichloroethane	14.54	97	810486	25.234	ng	99
39) Isopropyl Acetate	15.07	61	811998	56.339	ng #	77
40) 1-Butanol	15.09	56	1354910	59.205	ng	84
41) Benzene	15.23	78	2311837	24.342	ng	99
42) Carbon Tetrachloride	15.46	117	691162	26.035	ng	99
43) Cyclohexane	15.66	84	1894953	51.521	ng	87
44) tert-Amyl Methyl Ether	16.10	73	1706848	25.570	ng	98
45) 1,2-Dichloropropane	16.43	63	604031	25.926	ng	99
46) Bromodichloromethane	16.70	83	756963	27.245	ng	99
47) Trichloroethene	16.77	130	580989	24.093	ng	100
48) 1,4-Dioxane	16.72	88	488785	28.936	ng	88
49) 2,2,4-Trimethylpentane...	16.86	57	2716526	24.853	ng	95
50) Methyl Methacrylate	17.02	100	500383	52.727	ng	89
51) n-Heptane	17.21	71	645132	25.517	ng	94
52) cis-1,3-Dichloropropene	17.95	75	913939	26.034	ng	100
53) 4-Methyl-2-pentanone	17.99	58	612669	29.853	ng	94
54) trans-1,3-Dichloropropene	18.64	75	925371	30.131	ng	100
55) 1,1,2-Trichloroethane	18.89	97	534497	26.342	ng	98
58) Toluene	19.28	91	2474912	25.855	ng	100
59) 2-Hexanone	19.58	43	1471367	29.575	ng	98
60) Dibromochloromethane	19.82	129	608982	29.794	ng	100
61) 1,2-Dibromoethane	20.15	107	600651	27.881	ng	99
62) n-Butyl Acetate	20.39	43	1696442	31.252	ng	98
63) n-Octane	20.56	57	579085	27.140	ng	91
64) Tetrachloroethene	20.76	166	579860	24.412	ng	99
65) Chlorobenzene	21.62	112	1513425	25.745	ng	100
66) Ethylbenzene	22.09	91	2715971	26.280	ng	98
67) m- & p-Xylenes	22.33	91	4223675	51.551	ng	99
68) Bromoform	22.41	173	488897	27.556	ng	99
69) Styrene	22.77	104	1666968	27.525	ng	100
70) o-Xylene	22.92	91	2162950	26.242	ng	98
71) n-Nonane	23.17	43	1338857	26.973	ng	92
72) 1,1,2,2-Tetrachloroethane	22.89	83	983887	27.788	ng	100
74) Cumene	23.66	105	2715646	25.411	ng	99
75) alpha-Pinene	24.15	93	1319985	25.034	ng	100
76) n-Propylbenzene	24.28	91	3386344	25.638	ng	99
77) 3-Ethyltoluene	24.41	105	2698730	26.955	ng	98
78) 4-Ethyltoluene	24.46	105	2706940	26.895	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	2193093	26.352	ng	100

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Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020901.D
 Acq On : 2 Sep 2009 6:17
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 09:05:21 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

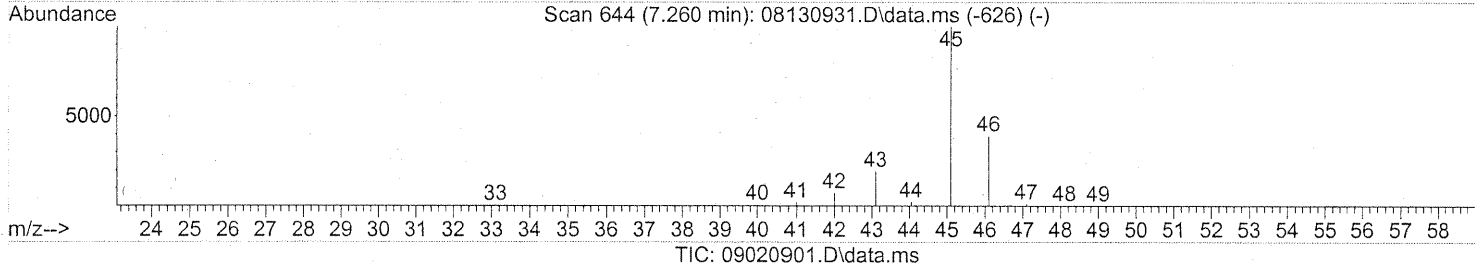
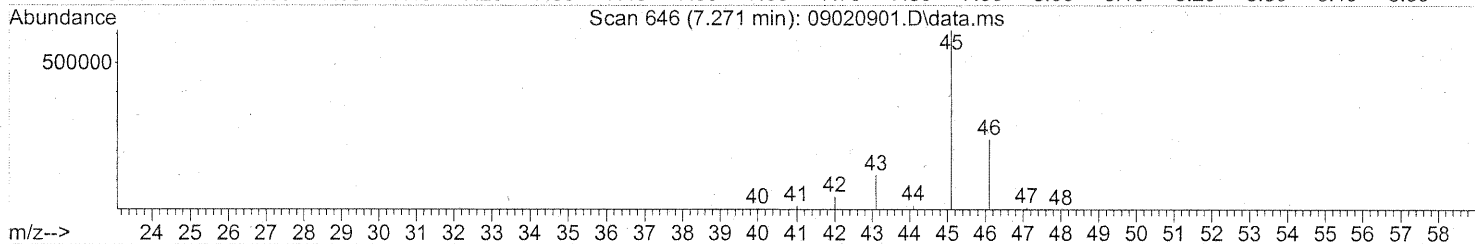
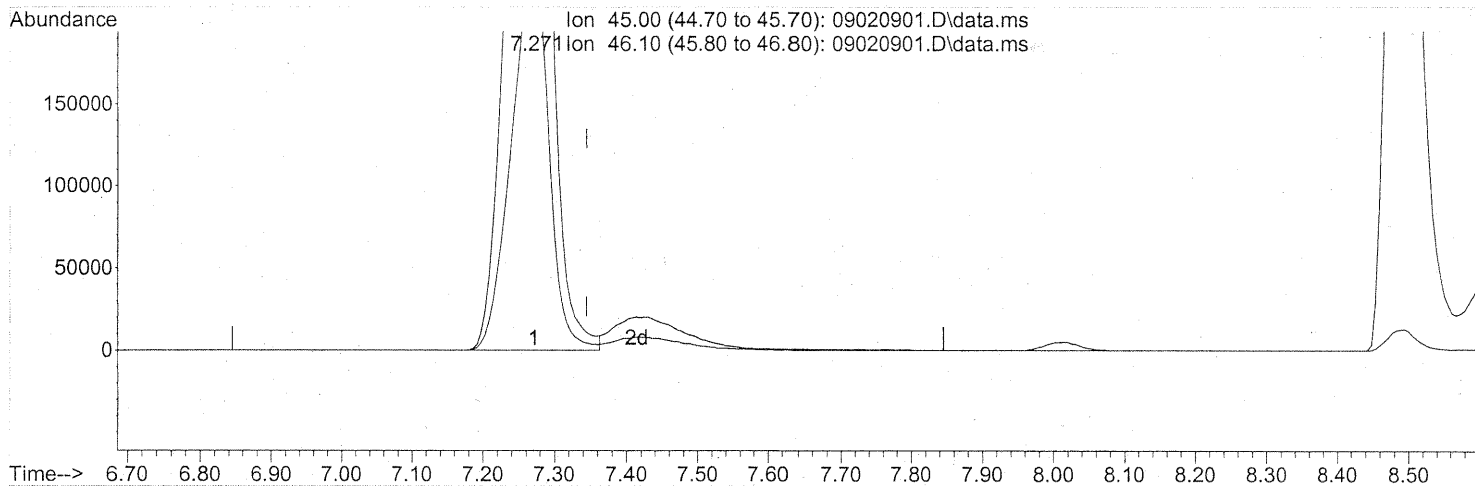
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	1235781	27.366	ng	99
81) 2-Ethyltoluene	24.79	105	2636253	25.498	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2362689	26.738	ng	99
83) n-Decane	25.15	57	1378085	26.794	ng	94
84) Benzyl Chloride	25.22	91	2062094	30.164	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1210982	26.472	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1225389	25.246	ng	100
87) sec-Butylbenzene	25.38	105	3000272	25.767	ng	99
88) 4-Isopropyltoluene (p-...	25.56	119	2885739	25.866	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2393979	26.804	ng	99
90) 1,2-Dichlorobenzene	25.75	146	1177462	25.635	ng	100
91) d-Limonene	25.74	68	1015281	28.083	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.26	157	407121	29.350	ng	93
93) n-Undecane	26.65	57	1455339	27.384	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	882954	27.515	ng	99
95) Naphthalene	27.94	128	3122551	26.337	ng	100
96) n-Dodecane	27.89	57	1507175	25.335	ng	96
97) Hexachlorobutadiene	28.36	225	490248	26.754	ng	99
98) Cyclohexanone	22.51	55	819727	27.191	ng	95
99) tert-Butylbenzene	25.05	119	2304445	26.296	ng	99
100) n-Butylbenzene	26.06	91	2496775	26.941	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
Data File : 09020901.D
Acq On : 2 Sep 2009 6:17
Operator : EM
Sample : 25ng TO-15 CCV STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 08:04:53 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA 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)

7.271min (-0.074) 114.07ng

response 2166179

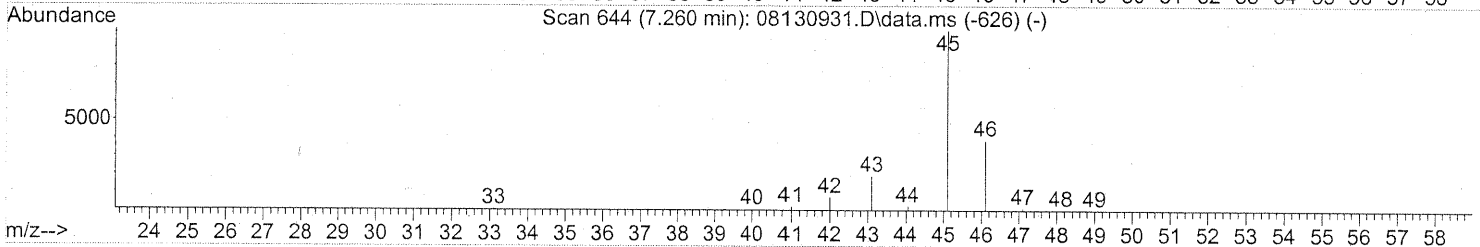
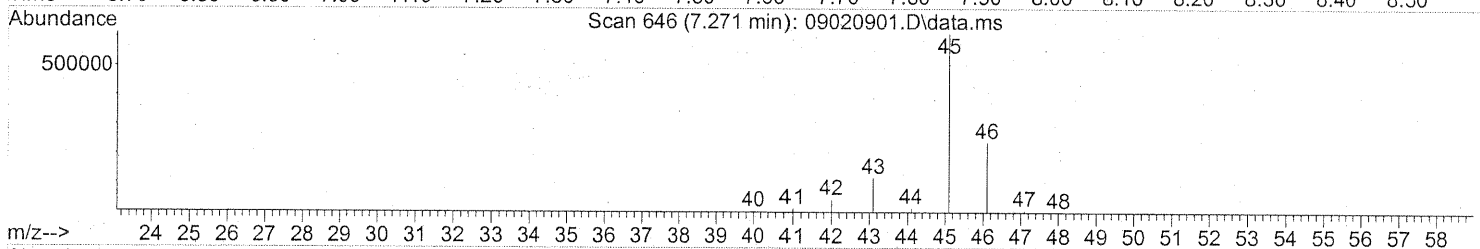
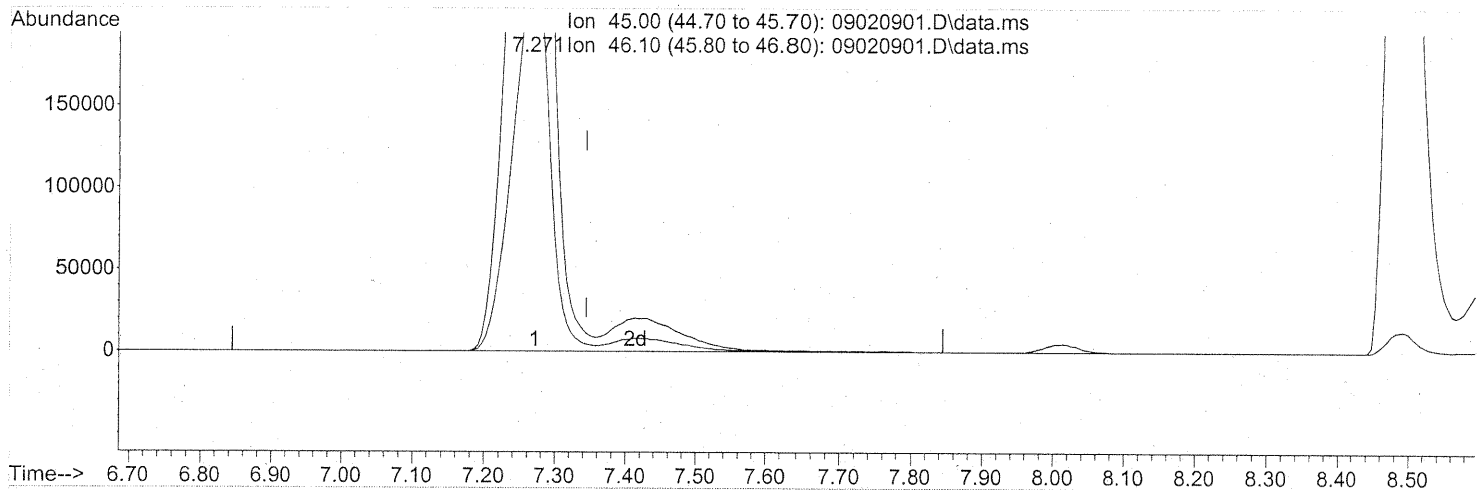
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.13
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020901.D
 Acq On : 2 Sep 2009 6:17
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 08:04:53 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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)

7.271min (-0.074) 121.62ng m

response 2309585

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.70
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

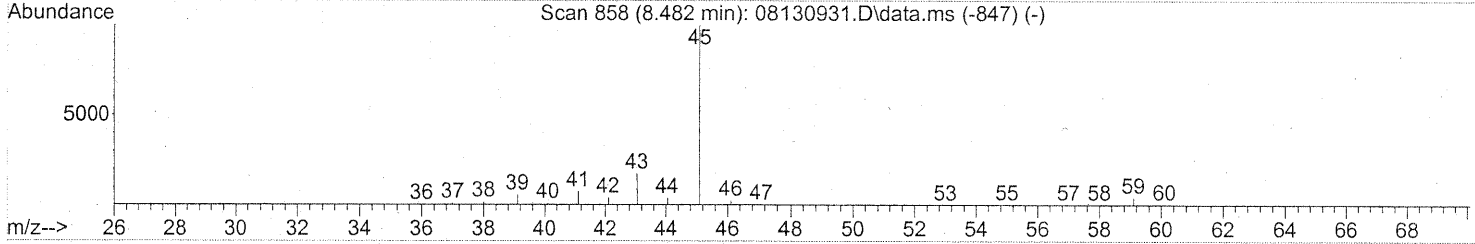
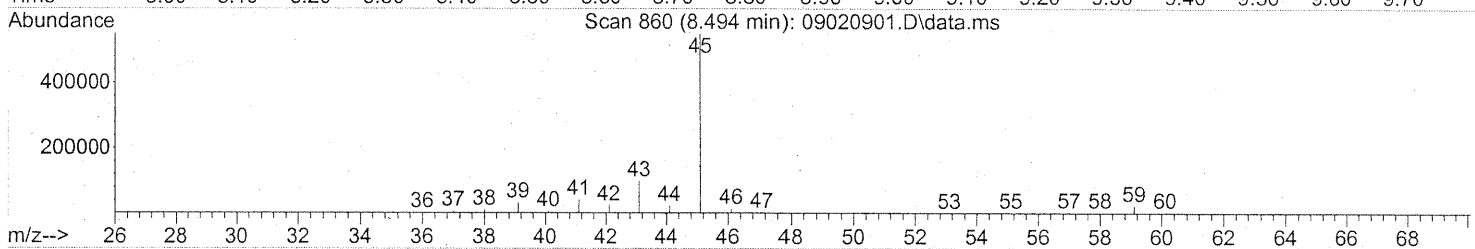
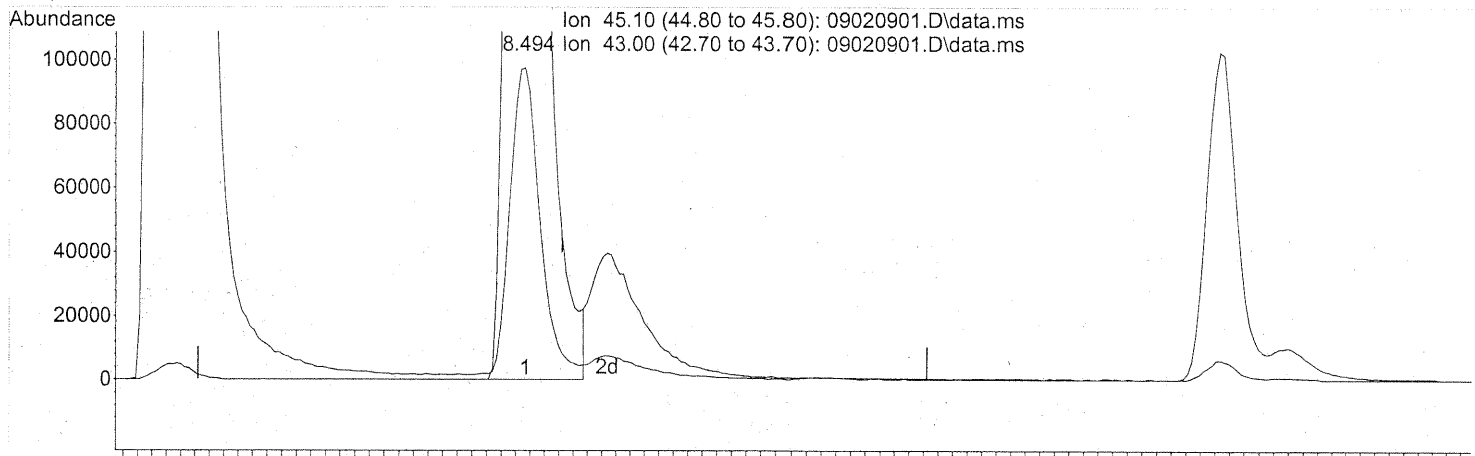
Em 9/2/09

UH 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020901.D
 Acq On : 2 Sep 2009 6:17
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 08:04:53 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA 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) 30.49ng

response 1613306

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.29
0.00	0.00	0.00
0.00	0.00	0.00

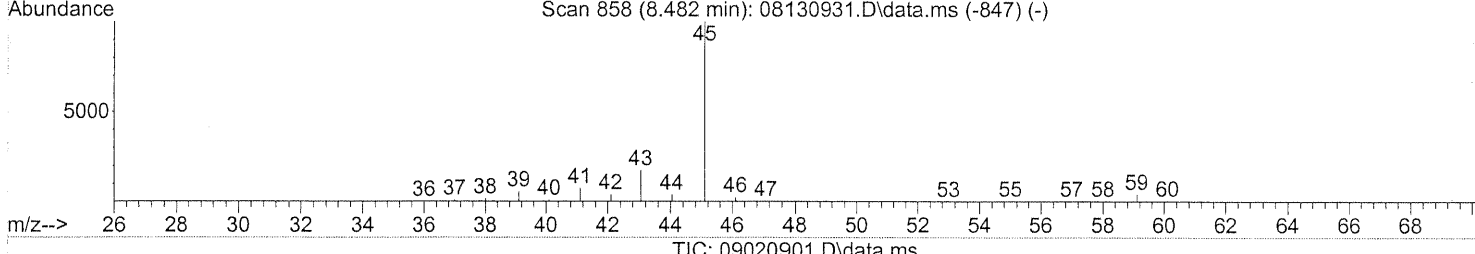
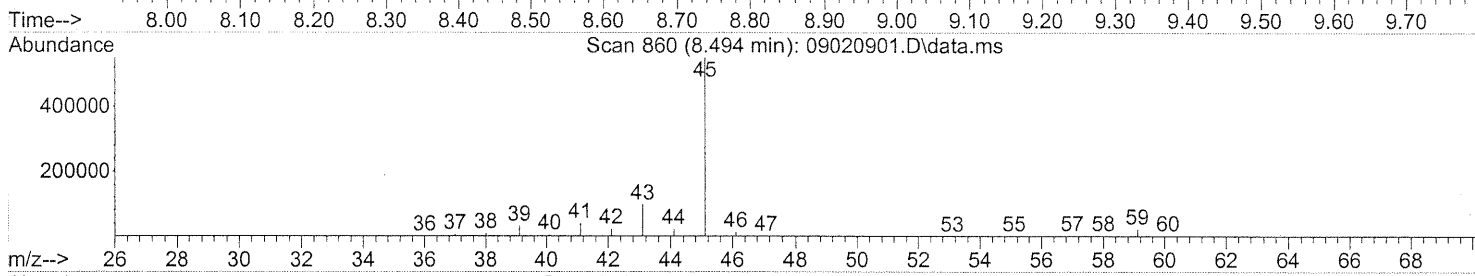
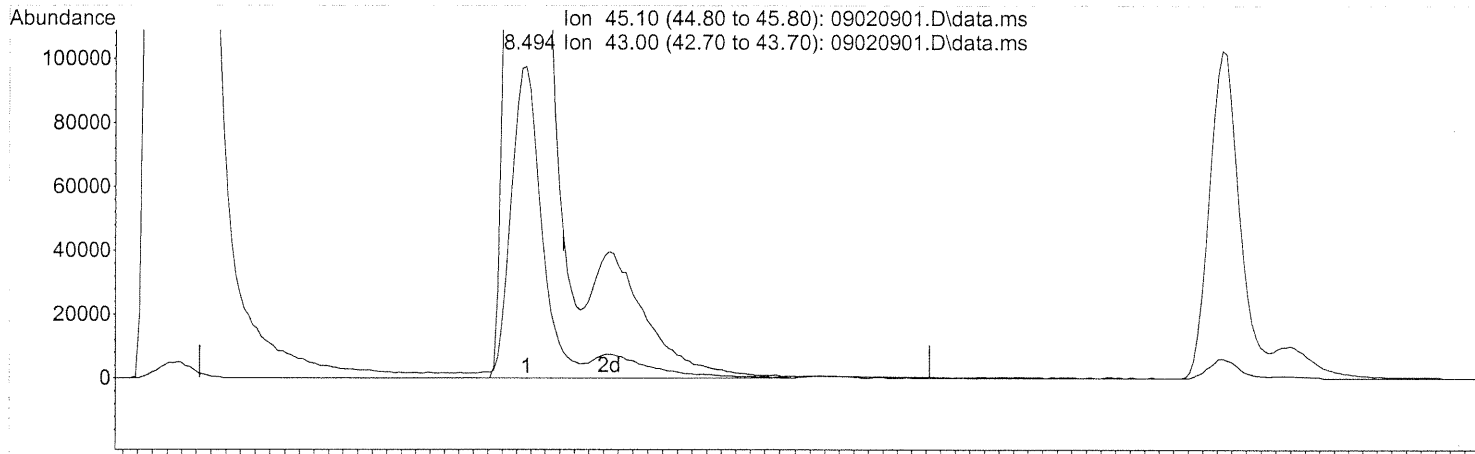
PT

392

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_09\02\
Data File : 09020901.D
Acq On : 2 Sep 2009 6:17
Operator : EM
Sample : 25ng TO-15 CCV STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 08:04:53 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA 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) 34.35ng m

response 1817966

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	15.34
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC

em 9/2/09

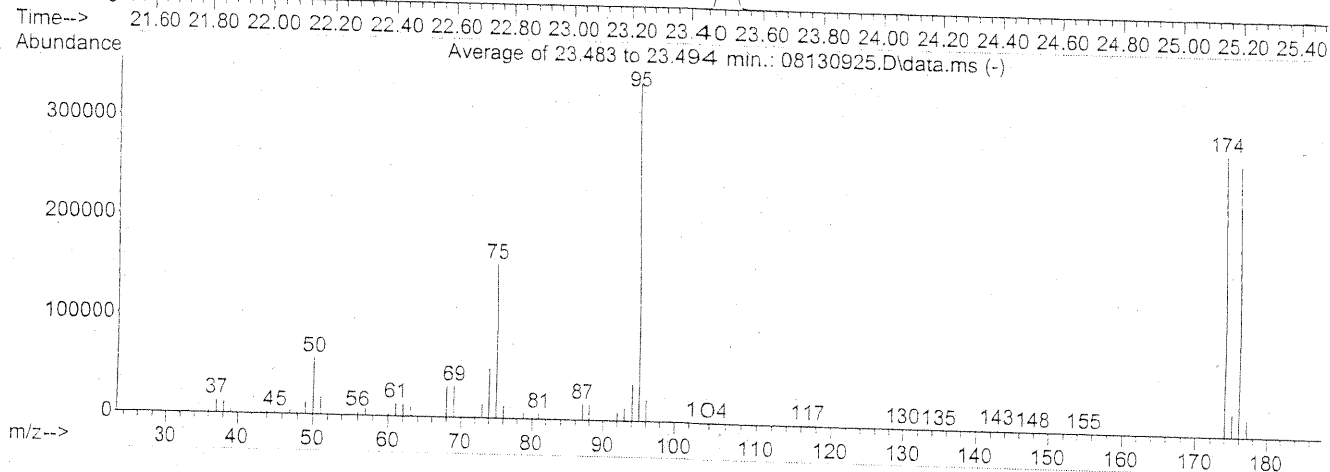
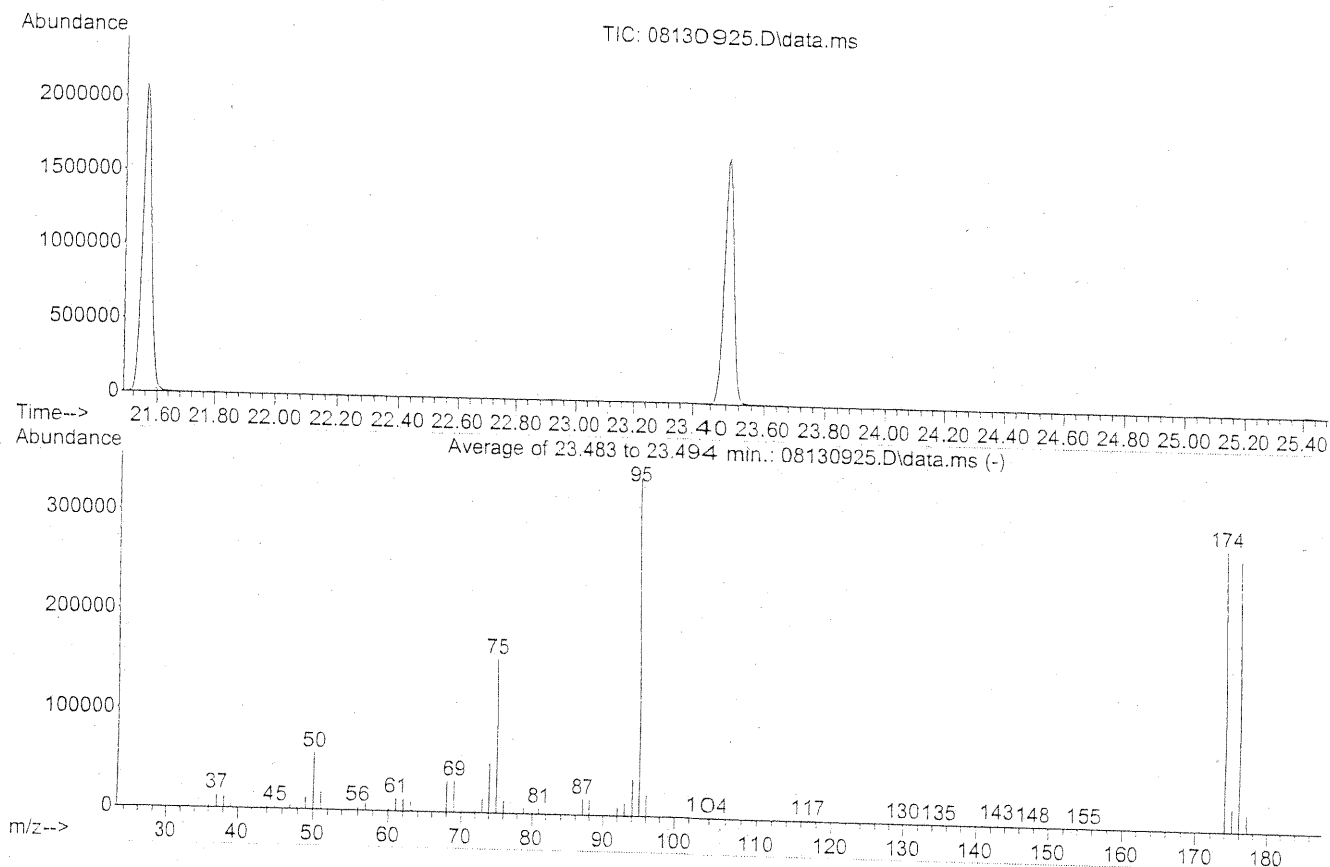
ll 9/2/09

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

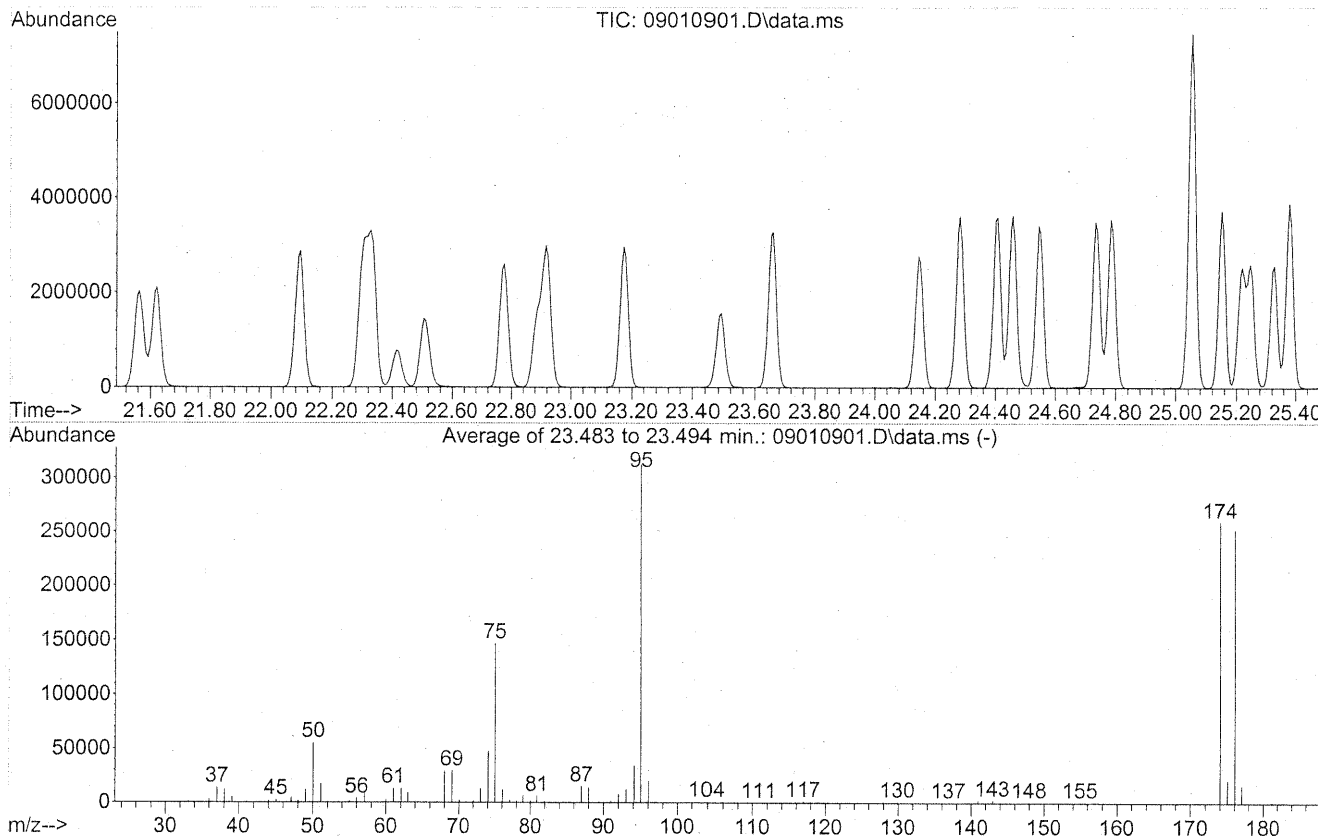
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	57432	PASS
75	95	30	66	45.6	154987	PASS
95	95	100	100	100.0	339563	PASS
96	95	5	9	6.4	21896	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.2	282475	PASS
175	174	4	9	8.1	22795	PASS
176	174	93	101	96.4	272171	PASS
177	176	5	9	6.4	17522	PASS

EM 8/14/09

Data Path : J:\MS09\Data\2009_09\01\
 Data File : 09010901.D
 Acq On : 1 Sep 2009 9:05
 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	17.7	55283	PASS
75	95	30	66	46.9	146480	PASS
95	95	100	100	100.0	312021	PASS
96	95	5	9	6.4	20072	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.0	259008	PASS
175	174	4	9	7.9	20552	PASS
176	174	93	101	97.3	252075	PASS
177	176	5	9	6.4	16060	PASS

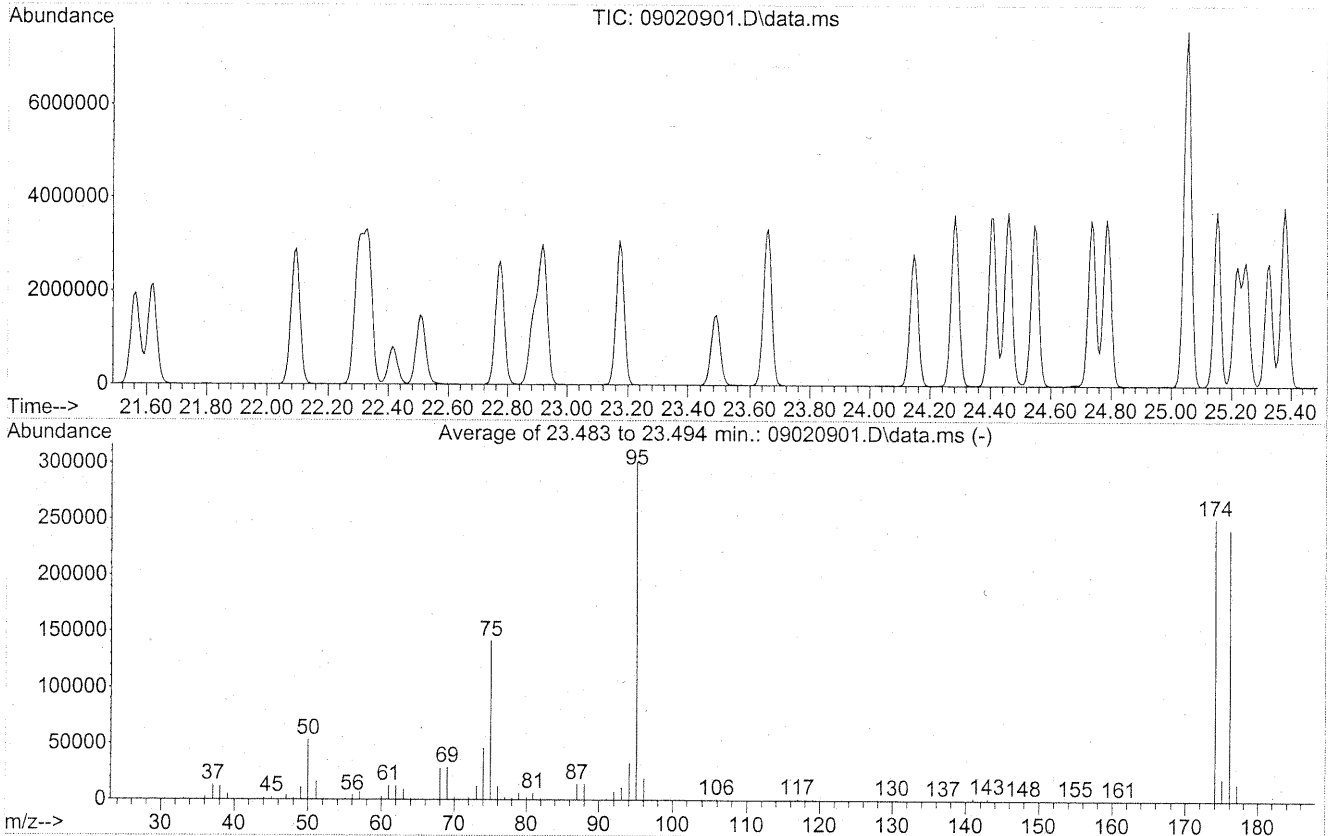
em 9/1/09

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Data Path : J:\MS09\Data\2009_09\02\
 Data File : 09020901.D
 Acq On : 2 Sep 2009 6:17
 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	17.7	53251	PASS
75	95	30	66	46.9	141168	PASS
95	95	100	100	100.0	300971	PASS
96	95	5	9	6.3	18979	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.5	251349	PASS
175	174	4	9	7.9	19893	PASS
176	174	93	101	96.2	241792	PASS
177	176	5	9	6.3	15247	PASS

em 9/2/09

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	
27	08/14/09 2:38	08130927.D	0.2ng TO-15 ICAL STD	S20-08130905/S20-07240912	EM	8	ICAL
28	08/14/09 3:19	08130928.D	0.5ng TO-15 ICAL STD	S20-08130905/S20-08100904	EM	1	R9081309.M
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
1	09/01/09 9:05	09010901.D	25ng TO-15 CCV STD	S20-08130905/S20-08100902	EM	1	Pass
2	09/01/09 9:46	09010902.D	0.5ng TO-15 RL Check	S20-08130905/S20-08240905	EM	1	
3	09/01/09 10:27	09010903.D	TO-15 Method Blank (1000ml)	S20-08130905	EM	1	Pass as MB
4	09/01/09 11:09	09010904.D	25ng TO-15 LCS STD	S20-08130905/S20-08070903	EM	2	Pass
5	09/01/09 11:59	09010905.D	P0903045-001 (0.1ml)	[REDACTED]	EM	1	
6	09/01/09 12:40	09010906.D	P0902966-005 (190ml)	[REDACTED]	EM	5	
7	09/01/09 13:22	09010907.D	P0903045-002 (3ml)	[REDACTED]	EM	1	Case File
8	09/01/09 14:03	09010908.D	P0903045-003 (1.5ml)	[REDACTED]	EM	1	
9	09/01/09 14:45	09010909.D	P0903045-002 (12ml)	[REDACTED]	EM	1	
10	09/01/09 15:27	09010910.D	P0902966-002 (4ml)	[REDACTED]	EM	1	
11	09/01/09 16:08	09010911.D	P0902966-003 (2.5ml)	[REDACTED]	EM	1	
12	09/01/09 16:50	09010912.D	P0902959-001 dil (0.025ml)	[REDACTED]	EM	1	
13	09/01/09 17:46	09010913.D	P0903045-001 dup (0.1ml)	[REDACTED]	EM	1	Pass as Lab Dup.
14	09/01/09 18:27	09010914.D	P0902966-006 (25ml)	[REDACTED]	EM	6	
15	09/01/09 19:09	09010915.D	P0902966-006 dup (25ml)	[REDACTED]	EM	6	Case File Extra
16	09/01/09 19:50	09010916.D	P0902966-005 dil (25ml)	[REDACTED]	EM	5	
17	09/01/09 20:32	09010917.D	P0902966-001 (400ml)	[REDACTED]	EM	8	
18	09/01/09 21:14	09010918.D	P0902966-004 (15ml) ^{115 ml} _{9/2/09}	[REDACTED]	EM	7	
19	09/01/09 21:55	09010919.D	P0902975-001 (1000ml)	Environmental H & E 103993	EM	9	
20	09/01/09 22:37	09010920.D	P0902975-002 (1000ml)	Environmental H & E 103994	EM	10	
21	09/01/09 23:19	09010921.D	System Check		EM	4	
22	09/02/09 0:01	09010922.D	P0902975-002 dil (100ml)	Environmental H & E 103994	EM	10	Case File
23	09/02/09 0:43	09010923.D	P0902975-003 (1000ml)	Environmental H & E 103995	EM	11	
24	09/02/09 1:25	09010924.D	P0902975-004 (1000ml)	Environmental H & E 103996	EM	12	
25	09/02/09 2:06	09010925.D	P0902975-005 (1000ml)	Environmental H & E 103997	EM	13	
26	09/02/09 2:48	09010926.D	System Check		EM	4	
27	09/02/09 3:30	09010927.D	CAS CAN QC C1S 3663E	SC01036 (1000ml)	EM	16	Failed
28	09/02/09 4:12	09010928.D	CAS CAN QC C1S 3663F	SC00480 (1000ml)	EM	14	
29	09/02/09 4:54	09010929.D	CAS CAN QC C1S 3663J	SC00593 (1000ml)	EM	15	
30	09/02/09 5:36	09010930.D	System Check		EM	4	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/02/09 6:17	09020901.D	25ng TO-15 CCV STD	S20-08130905/S20-08100902	EM	1	Pass
2	09/02/09 6:58	09020902.D	25ng TO-15 ACF STD	S20-08130905/S20-08270902	EM	1	Pass
3	09/02/09 7:40	09020903.D	TO-15 Method Blank (1000ml)	S20-08130905	EM	1	Pass as MB
4	09/02/09 8:21	09020904.D	25ng TO-15 LCS STD	S20-08130905/S20-08240914	EM	2	Pass
5	09/02/09 9:03	09020905.D	25ng TO-15-LCSD STD	S20-08130905/S20-08240914	EM	2	Pass
6	09/02/09 10:10	09020906.D	P0902911-005 dil (1ml)	[REDACTED]	EM	1	
7	09/02/09 10:51	09020907.D	P0902911-008 (50ml)	[REDACTED]	EM	5	Case File
8	09/02/09 11:39	09020908.D	P0903013-002 (0.6ml)	[REDACTED]	EM	1	
9	09/02/09 12:21	09020909.D	P0902911-003 (25ml)	[REDACTED]	EM	8	
10	09/02/09 13:02	09020910.D	P0902911-005 (8ml)	[REDACTED]	EM	1	
11	09/02/09 13:44	09020911.D	P0903077-003 (4ml)	[REDACTED]	EM	1	
12	09/02/09 14:29	09020912.D	P0902966-004 dil (1ml)	[REDACTED]	EM	1	
13	09/02/09 15:18	09020913.D	P0902911-004 dil (5ml)	[REDACTED]	EM	1	
14	09/02/09 16:00	09020914.D	P0903013-002 dup (0.6ml)	[REDACTED]	EM	1	Case File
15	09/02/09 17:15	09020915.D	P0902975-001 dil (100ml)	Environmental H & E 103993	EM	9	
16	09/02/09 17:56	09020916.D	P0903013-001 (400ml)	[REDACTED]	EM	12	
17	09/02/09 18:37	09020917.D	P0902911-008 (200ml)	[REDACTED]	EM	5	
18	09/02/09 19:19	09020918.D	P0902911-008 dup (200ml)	[REDACTED]	EM	5	Pass as Lab Dup.
19	09/02/09 20:00	09020919.D	P0902911-001 (1000ml)	[REDACTED]	EM	6	
20	09/02/09 20:42	09020920.D	P0902911-002 (1000ml)	[REDACTED]	EM	7	
21	09/02/09 21:24	09020921.D	P0902911-003 (1000ml)	[REDACTED]	EM	8	
22	09/02/09 22:05	09020922.D	P0902911-004 (25ml)	[REDACTED]	EM	13	
23	09/02/09 22:47	09020923.D	P0902911-006 dil (25ml)	[REDACTED]	EM	10	
24	09/02/09 23:29	09020924.D	P0902911-007 (350ml)	[REDACTED]	EM	11	
25	09/03/09 0:11	09020925.D	System Check		EM	4	
26	09/03/09 0:53	09020926.D	CAS QC CAN/FC/AVG (1000ml)	AC00897/FC00673/AVG00927	EM	14	Pass #14424
27	09/03/09 1:35	09020927.D	CAS QC CAN/FC/AVG (1000ml)	AC00580/FC00578/AVG00862	EM	15	↓
28	09/03/09 2:17	09020928.D	CAS QC CAN/FC/AVG (1000ml)	AC00962/FC00675/AVG00854	EM	16	Pass 75 @ 0.1 ug/m ³
29	09/03/09 3:00	09020929.D	Blank (200ml)		EM	1	
30	09/03/09 4:34	09020930.D	Blank (200ml)		EM	1	
31	09/03/09 5:11	09020931.D	System Check		EM	4	