
LABORATORY REPORT

September 3, 2009

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

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on August 12, 2009. For your reference, these analyses have been assigned our service request number P0902766.

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 **302** pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-08-TX. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

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

Respectfully submitted,

Columbia Analytical Services, Inc.

Kate Aguilera
Project Manager

Client: Environmental Health & Engineering, Incorporated CAS Project No: P0902766
Project: 16512

CASE NARRATIVE

The samples were received intact under chain of custody on August 12, 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 Relative Percent Difference (RPD) criterion was exceeded for the replicate analysis of 2-Hexanone in sample 101160. However, analyte concentrations close to the Method Reporting Limit (MRL) may not be subject to the same precision criteria as results derived from measurements higher in the calibration range for the method. The magnitude of error may increase as the concentrations get closer to the reporting limit; therefore, the reported precision may be unrealistically large.

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: P0902766

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pf1 (Hg)	Pi2 (psig)	Pf2	Cont ID	Order #	FC ID	Bottle Order #
P0902766-001.01	101160	6.0 L-Summa Canister Ambient	-3.9	-1.9	3.5			AC01202	14190		
P0902766-002.01	101161	6.0 L-Summa Canister Ambient	-1.2	-0.6	3.5			AC00989	14190		
P0902766-003.01	101162	6.0 L-Summa Canister Ambient	-7.9	-3.9	3.5			AC00977	14190		
P0902766-004.01	101163	6.0 L-Summa Canister Ambient	-2.5	-1.2	3.6			AC00631	14190		

Miscellaneous Items - received

- AVG00698
- AVG01146
- AVG01140
- FC00018
- FC00204
- AVG00761
- FC00269
- FC00656

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Incorporated Work order: P0902766
 Project: Project # 16512 / 16512
 Sample(s) received on: 8/12/2009 Date opened: 8/12/2009 by: ADAVID

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

- | | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Container(s) supplied by CAS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Was a chain-of-custody provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was the chain-of-custody properly completed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cooler Temperature _____ °C Blank Temperature _____ °C | | | |
| 10 Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Trip blank supplied by CAS: _____ | | | |
| 11 Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0902766-001.01	6.0 L Ambient Can					
P0902766-002.01	6.0 L Ambient Can					
P0902766-003.01	6.0 L Ambient Can					
P0902766-004.01	6.0 L Ambient Can					

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

Missing time collected. _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Ase Acid) (pH>12); Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12); RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101160
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01202

CAS Project ID: P0902766
 CAS Sample ID: P0902766-001

Date Collected: 8/11/09
 Date Received: 8/12/09
 Date Analyzed: 8/18/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.42

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.71	ND	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.2	0.71	0.64	0.14	
74-87-3	Chloromethane	1.1	0.14	0.53	0.069	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.71	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.056	
106-99-0	1,3-Butadiene	ND	0.14	ND	0.064	
74-83-9	Bromomethane	ND	0.14	ND	0.037	
75-00-3	Chloroethane	ND	0.14	ND	0.054	
64-17-5	Ethanol	430	7.1	230	3.8	
75-05-8	Acetonitrile	120	0.71	71	0.42	
107-02-8	Acrolein	7.0	0.71	3.1	0.31	
67-64-1	Acetone	75	7.1	32	3.0	
75-69-4	Trichlorofluoromethane	1.6	0.14	0.28	0.025	
67-63-0	2-Propanol (Isopropyl Alcohol)	13	0.71	5.1	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	0.79	0.71	0.23	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	ND	0.045	
76-13-1	Trichlorotrifluoroethane	0.79	0.14	0.10	0.019	
75-15-0	Carbon Disulfide	2.0	0.71	0.65	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	1.2	0.14	0.35	0.039	
108-05-4	Vinyl Acetate	ND	7.1	ND	2.0	
78-93-3	2-Butanone (MEK)	6.7	0.71	2.3	0.24	

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

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

Verified By:  Date: 8/25/09 **7**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101160
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01202

CAS Project ID: P0902766
CAS Sample ID: P0902766-001

Date Collected: 8/11/09
Date Received: 8/12/09
Date Analyzed: 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.42

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.036	
141-78-6	Ethyl Acetate	2.4	0.71	0.67	0.20	
110-54-3	n-Hexane	2.2	0.71	0.64	0.20	
67-66-3	Chloroform	0.86	0.14	0.18	0.029	
109-99-9	Tetrahydrofuran (THF)	3.4	0.71	1.1	0.24	
107-06-2	1,2-Dichloroethane	0.86	0.14	0.21	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.026	
71-43-2	Benzene	2.4	0.14	0.75	0.044	
56-23-5	Carbon Tetrachloride	0.70	0.14	0.11	0.023	
110-82-7	Cyclohexane	1.7	0.71	0.48	0.21	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.031	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.026	
123-91-1	1,4-Dioxane	ND	0.71	ND	0.20	
80-62-6	Methyl Methacrylate	ND	0.71	ND	0.17	
142-82-5	n-Heptane	2.4	0.71	0.59	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.71	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	0.71	ND	0.17	
10061-02-6	trans-1,3-Dichloropropene	ND	0.71	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	13	0.71	3.4	0.19	
591-78-6	2-Hexanone	1.0	0.71	0.25	0.17	
124-48-1	Dibromochloromethane	0.17	0.14	0.020	0.017	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	3.1	0.71	0.66	0.15	

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

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

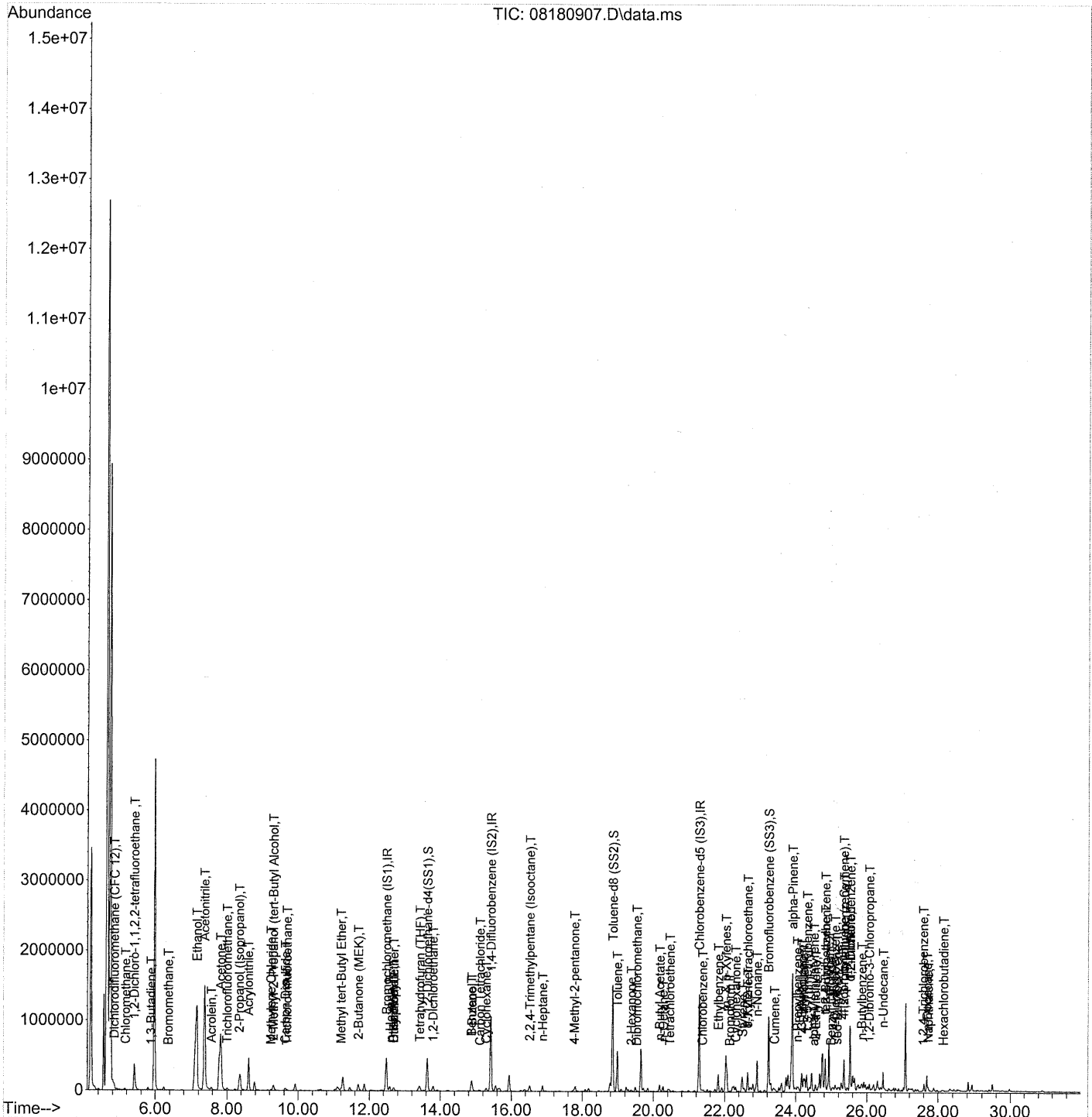
Verified By: _____

Date: _____

8/25/09

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 16:25:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	234186	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	1196873	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	568508	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	476081	23.389	ng	-0.03
Spiked Amount	25.000			Recovery =	93.56%	✓
57) Toluene-d8 (SS2)	18.85	98	1305741	26.286	ng	-0.01
Spiked Amount	25.000			Recovery =	105.16%	✓
73) Bromofluorobenzene (SS3)	23.23	174	341477	26.067	ng	-0.01
Spiked Amount	25.000			Recovery =	104.28%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.85	85	58470	2.226	ng	98
4) Chloromethane	5.17	50	13678	0.775	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	1034	0.097	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	886	0.073	ng	# 27
8) Bromomethane	6.36	94	569	0.055	ng	# 64
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.15	45	3101524	304.473	ng	100
11) Acetonitrile	7.37	41	2487974	83.399	ng	100
12) Acrolein	7.57	56	38195	4.926	ng	99
13) Acetone	7.82	58	506479	52.696	ng	90
14) Trichlorofluoromethane	8.01	101	26253	1.106	ng	99
15) 2-Propanol (Isopropanol)	8.35	45	334748	8.863	ng	# 58
16) Acrylonitrile	8.61	53	7841	0.452	ng	# 36
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	15128	0.451	ng	# 1
19) Methylene Chloride	9.24	84	7211	0.559	ng	93
20) 3-Chloro-1-propene (Al...	9.40	41	86	N.D.		
21) Trichlorotrifluoroethane	9.68	151	4805	0.557	ng	90
22) Carbon Disulfide	9.63	76	65127	1.431	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.20	73	31876	0.877	ng	97
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.69	72	41079	4.734	ng	92
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	1159	0.100	ng	# 1
30) Ethyl Acetate	12.69	61	7696	1.702	ng	93
31) n-Hexane	12.59	57	36481	1.577	ng	99

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	12349	0.607 ng		98
34) Tetrahydrofuran (THF)	13.42	72	22060	2.385 ng	#	68
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	11213	0.603 ng		98
38) 1,1,1-Trichloroethane	14.19	97	318	N.D.		
39) Isopropyl Acetate	14.86	61	123	N.D.		
40) 1-Butanol	14.89	56	76556	4.928 ng		84
41) Benzene	14.88	78	89171	1.695 ng		99
42) Carbon Tetrachloride	15.11	117	8297	0.495 ng		99
43) Cyclohexane	15.29	84	22628	1.174 ng		99
44) tert-Amyl Methyl Ether	15.87	73	1226	N.D.		
45) 1,2-Dichloropropane	16.10	63	91	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.54	88	222	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	82850	1.337 ng		87
50) Methyl Methacrylate	16.78	100	87	N.D.		
51) n-Heptane	16.88	71	24123	1.708 ng		94
52) cis-1,3-Dichloropropene	17.65	75	91	N.D.		
53) 4-Methyl-2-pentanone	17.78	58	5200	0.411 ng		100
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	440701	9.027 ng		98
59) 2-Hexanone	19.38	43	23529	0.725 ng		93
60) Dibromochloromethane	19.53	129	1403	0.121 ng		89
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	84681	2.213 ng		96
63) n-Octane	20.28	57	15578	1.320 ng		95
64) Tetrachloroethene	20.46	166	5440	0.482 ng		96
65) Chlorobenzene	21.38	112	3256	0.108 ng	#	43
66) Ethylbenzene	21.82	91	223900	4.012 ng		98
67) m- & p-Xylenes	22.04	91	498455	11.041 ng		99
68) Bromoform	22.15	173	2256	0.235 ng		88
69) Styrene	22.51	104	56990	1.747 ng		97
70) o-Xylene	22.65	91	177450	3.920 ng		97
71) n-Nonane	22.91	43	186896	6.214 ng		96
72) 1,1,2,2-Tetrachloroethane	22.65	83	1533	0.076 ng	#	18
74) Cumene	23.41	105	17238	0.301 ng		97
75) alpha-Pinene	23.90	93	777153	26.517 ng		71
76) n-Propylbenzene	24.05	91	51522	0.717 ng		98
77) 3-Ethyltoluene	24.17	105	129846	2.376 ng		99
78) 4-Ethyltoluene	24.23	105	52997	1.001 ng		96
79) 1,3,5-Trimethylbenzene	24.32	105	58497	1.310 ng		100

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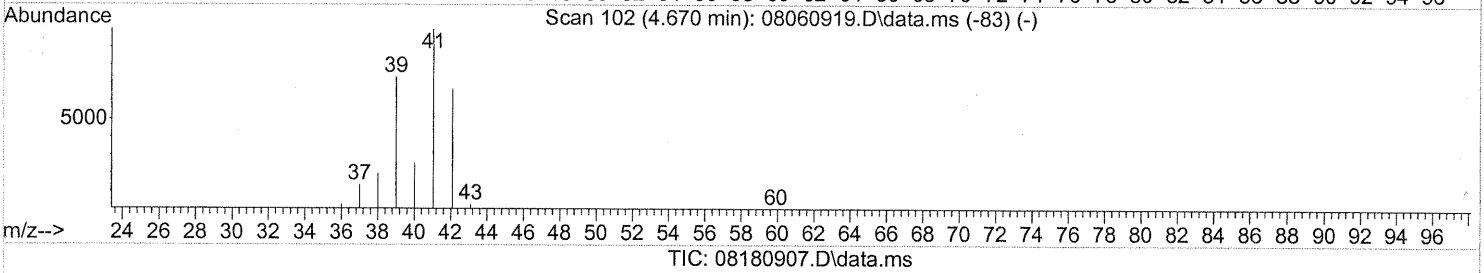
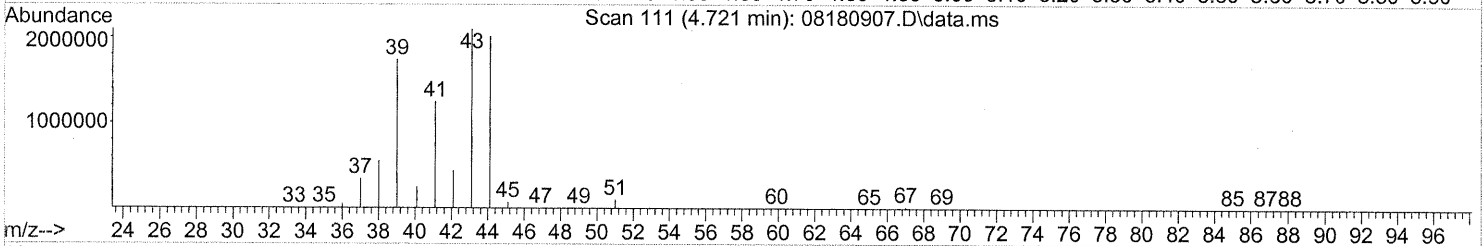
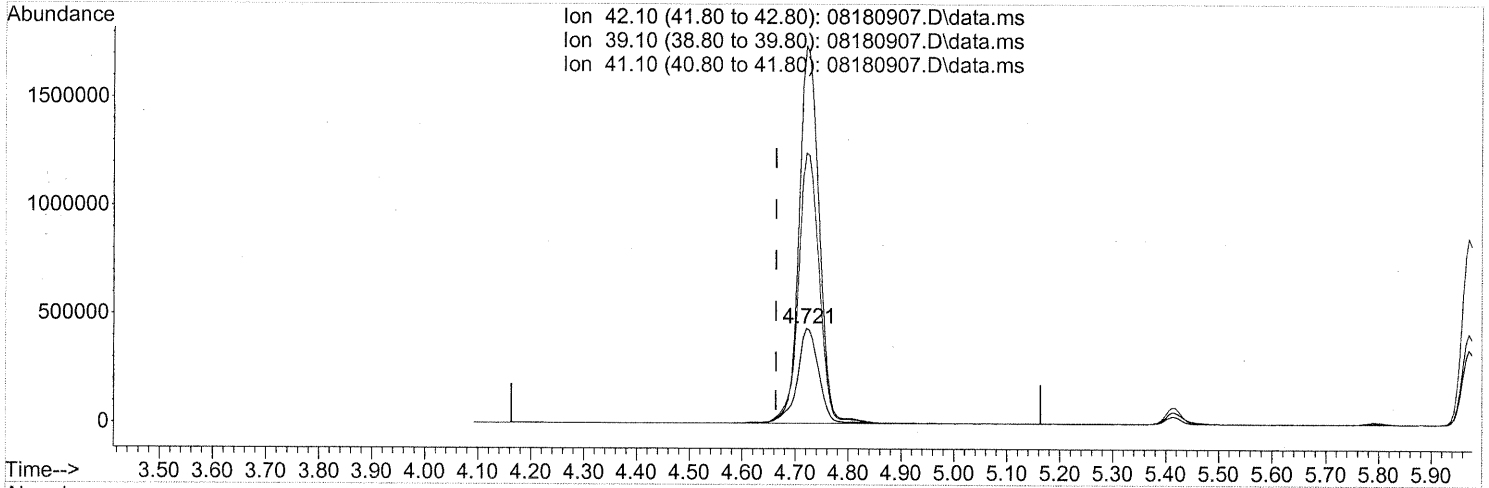
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1913	0.080	ng	83
81) 2-Ethyltoluene	24.56	105	54913	0.997	ng	97
82) 1,2,4-Trimethylbenzene	24.83	105	169251	3.717	ng	88
83) n-Decane	24.93	57	249543	8.428	ng	97
84) Benzyl Chloride	24.99	91	5195	0.122	ng #	66
85) 1,3-Dichlorobenzene	25.02	146	964	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	5329	0.217	ng	98
87) sec-Butylbenzene	25.17	105	6232	0.101	ng #	80
88) 4-Isopropyltoluene (p-...	25.35	119	79863	1.456	ng	98
89) 1,2,3-Trimethylbenzene	25.35	105	50584	1.090	ng	94
90) 1,2-Dichlorobenzene	25.53	146	1147	0.052	ng	85
91) d-Limonene	25.53	68	230185	11.887	ng	83
92) 1,2-Dibromo-3-Chloropr...	26.06	157	1371	0.182	ng #	35
93) n-Undecane	26.46	57	84040	2.668	ng	89
94) 1,2,4-Trichlorobenzene	27.59	180	2530	0.168	ng #	94
95) Naphthalene	27.73	128	42285	0.684	ng	99
96) n-Dodecane	27.70	57	71914	1.965	ng	99
97) Hexachlorobutadiene	28.15	225	2147	0.225	ng #	96
98) Cyclohexanone	22.31	55	33087	1.636	ng	92
99) tert-Butylbenzene	24.83	119	21060	0.478	ng #	57
100) n-Butylbenzene	25.85	91	14570	0.287	ng #	41

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.721min (+0.057) 77.45ng
 response 1244667

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	370.60#
41.10	150.20	276.59#
0.00	0.00	0.00

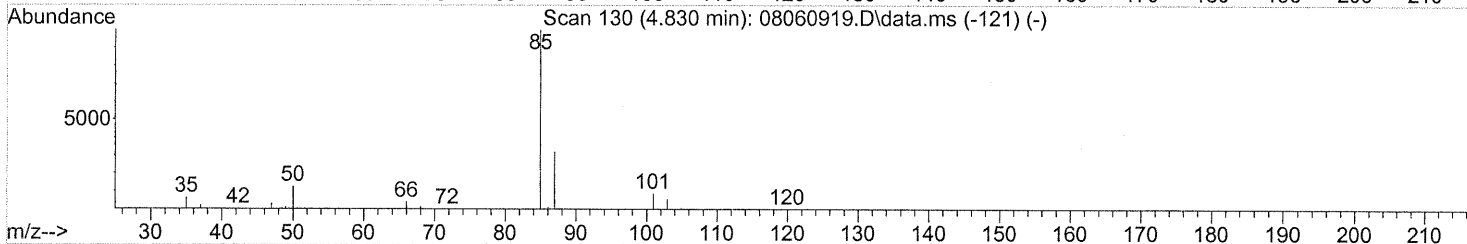
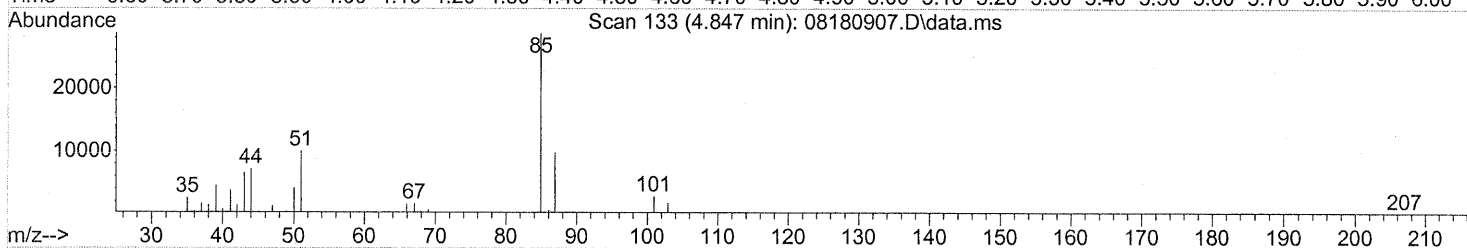
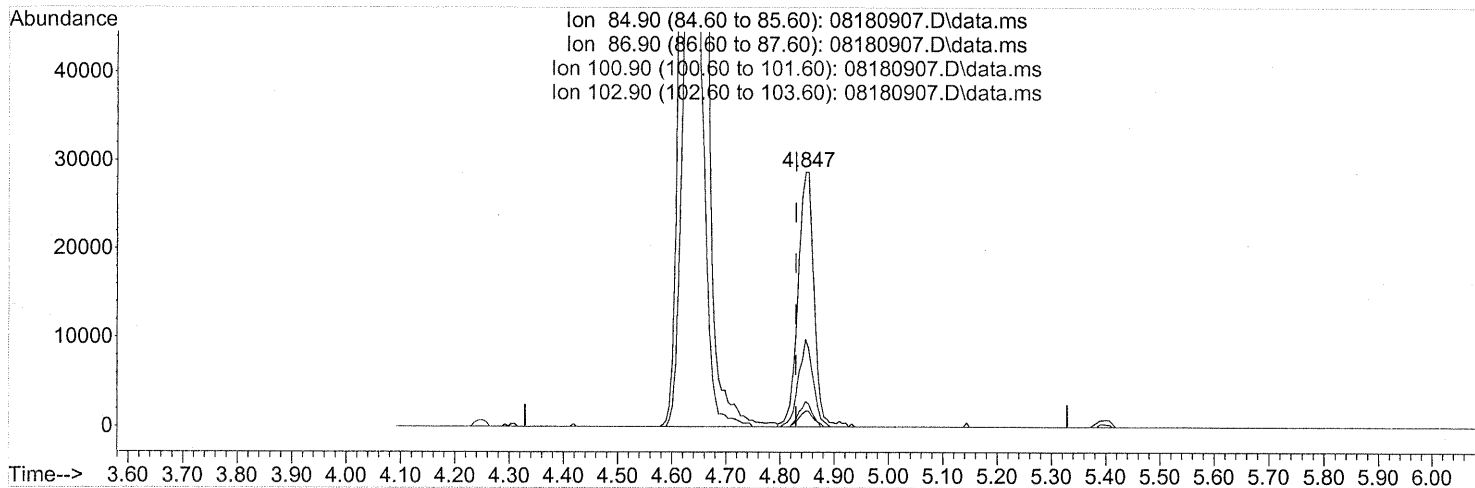
FP

WA 8/22/09 Em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
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 Response via : Initial Calibration



TIC: 08180907.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.847min (+0.017) 2.23ng

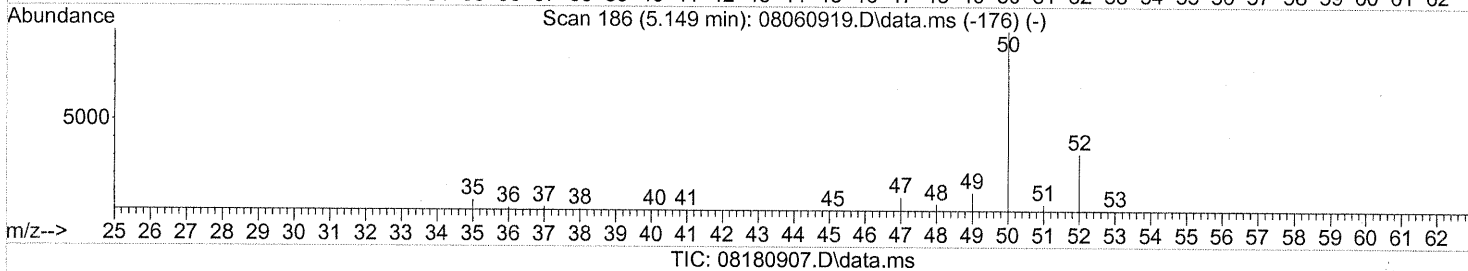
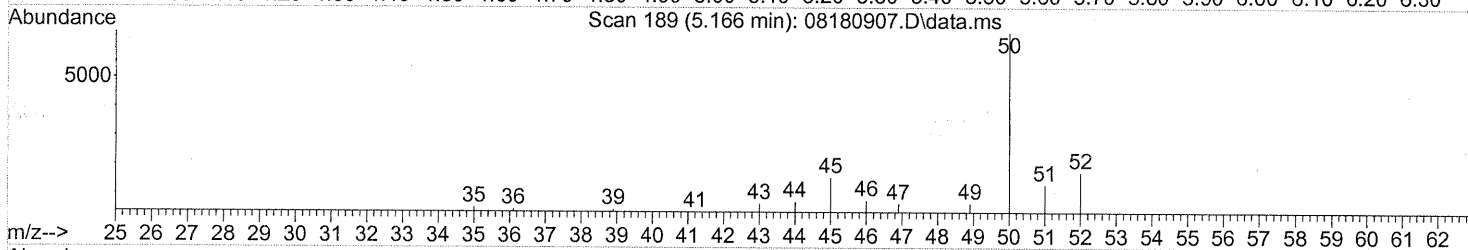
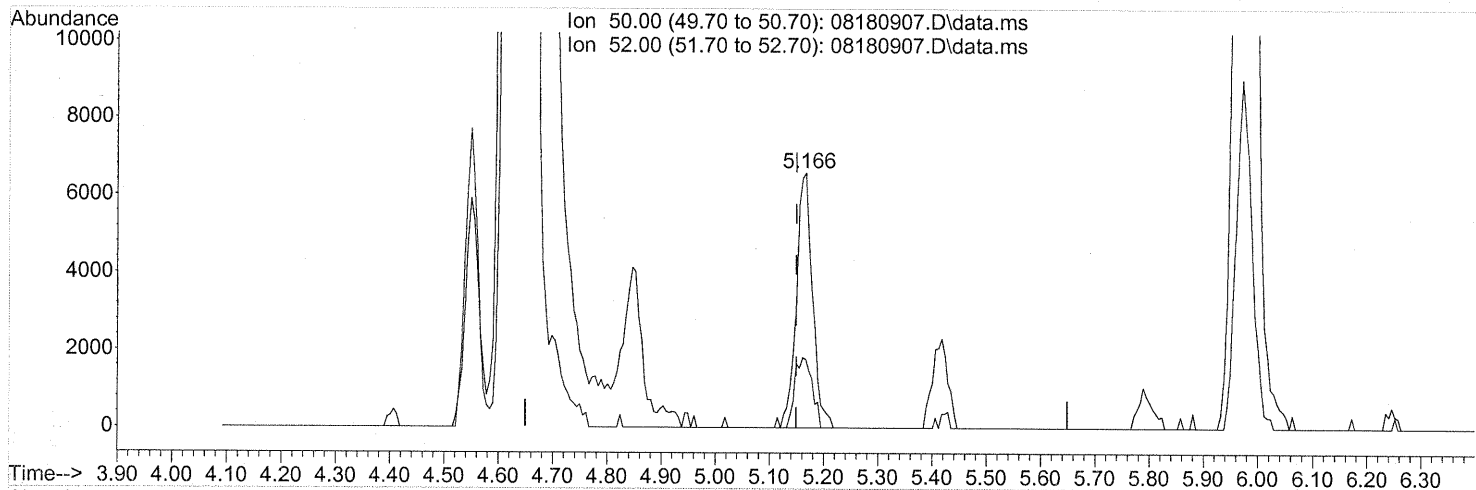
response 58470

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.43
100.90	8.80	8.10
102.90	5.20	5.41

Quantitation Report (Qedit)

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(4) Chloromethane (T)

5.166min (+0.017) 0.78ng

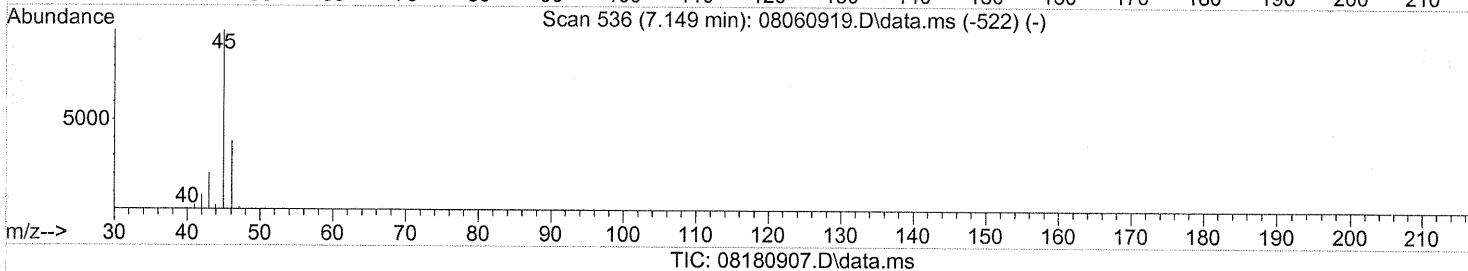
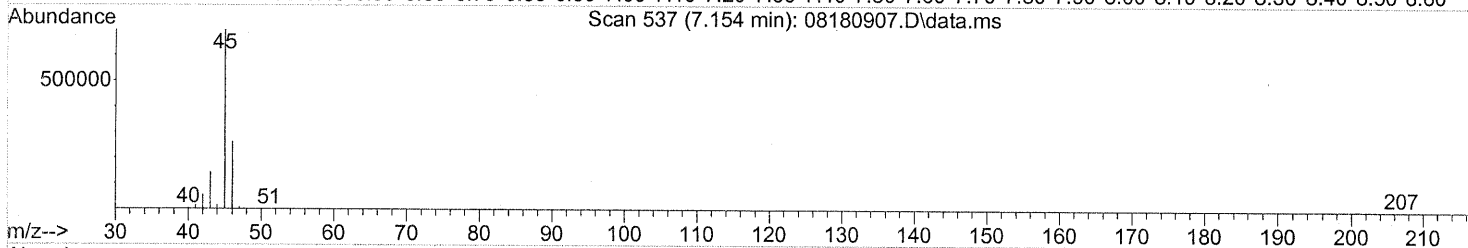
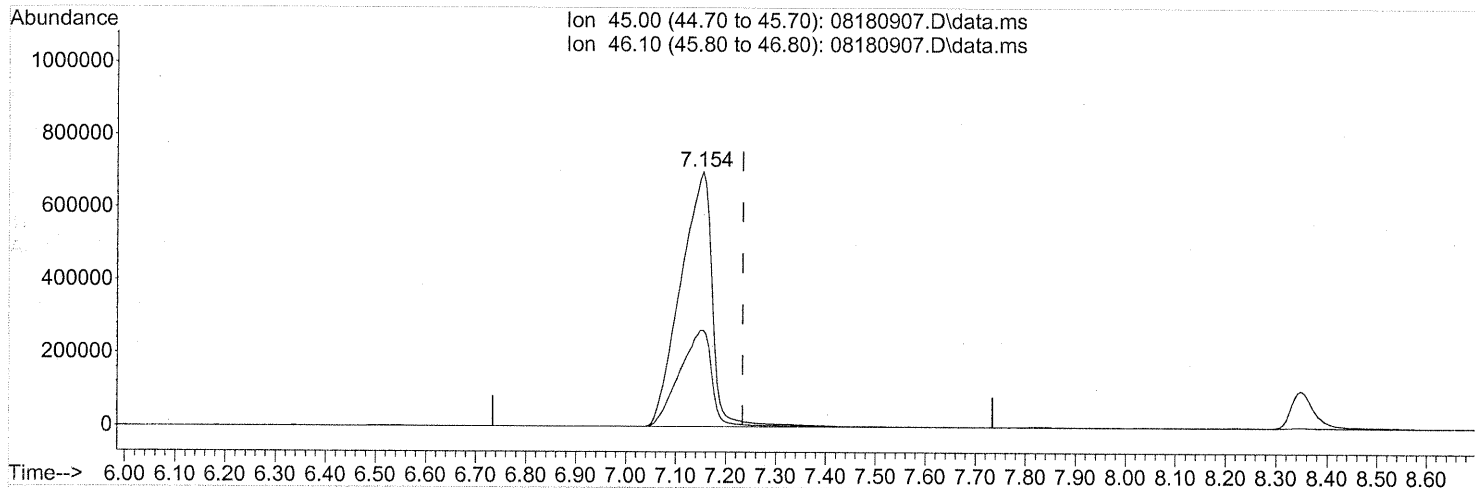
response 13678

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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ALS Vial : 13 Sample Multiplier: 1

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



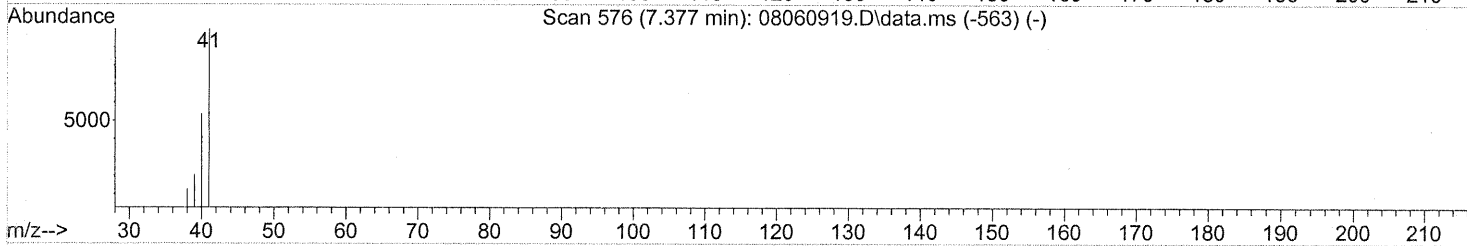
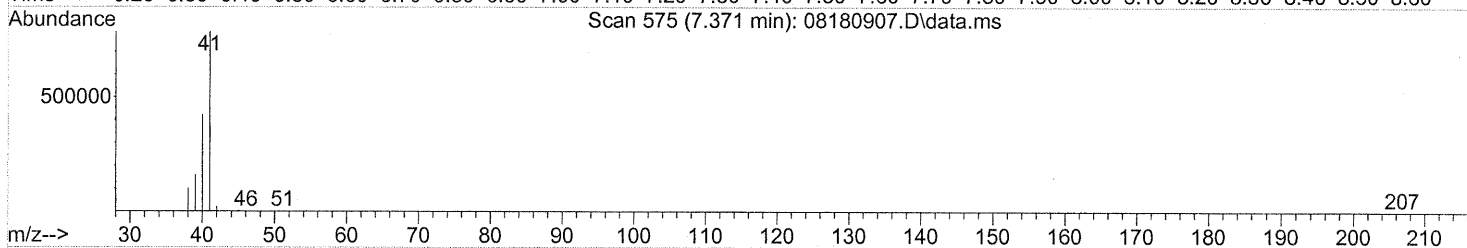
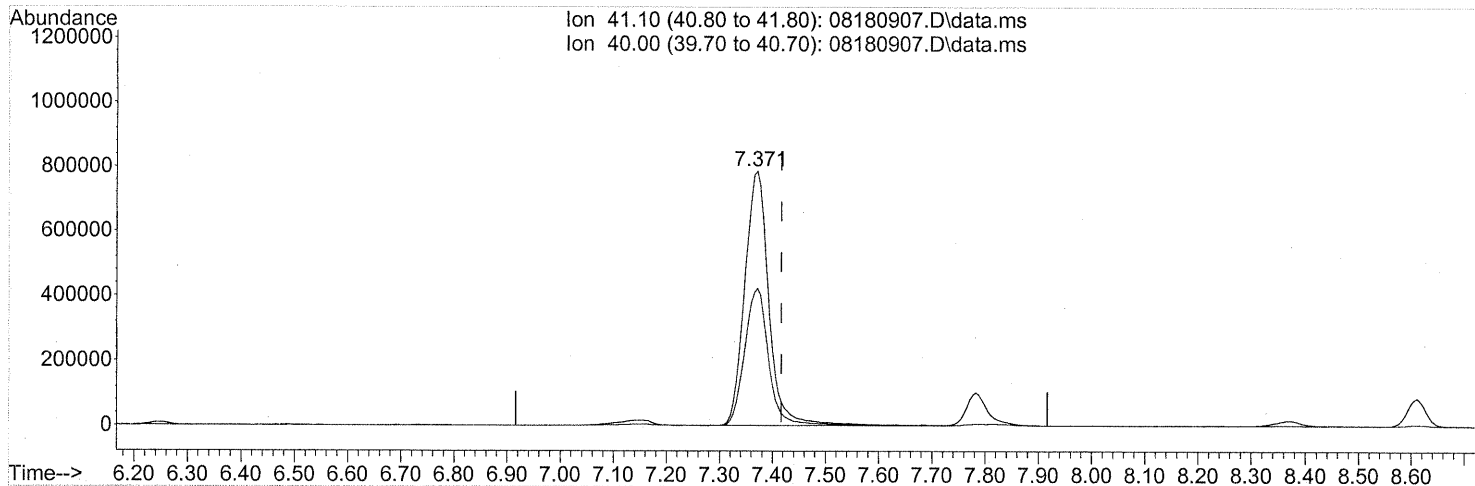
(10) Ethanol (T)
7.154min (-0.080) 304.47ng
response 3101524

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.36
0.00	0.00	0.00
0.00	0.00	0.00

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TIC: 08180907.D\data.ms

(11) Acetonitrile (T)

7.371min (-0.046) 83.40ng

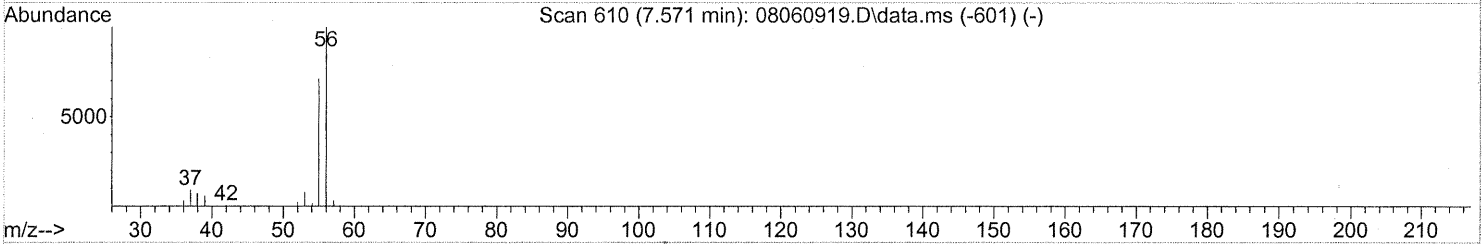
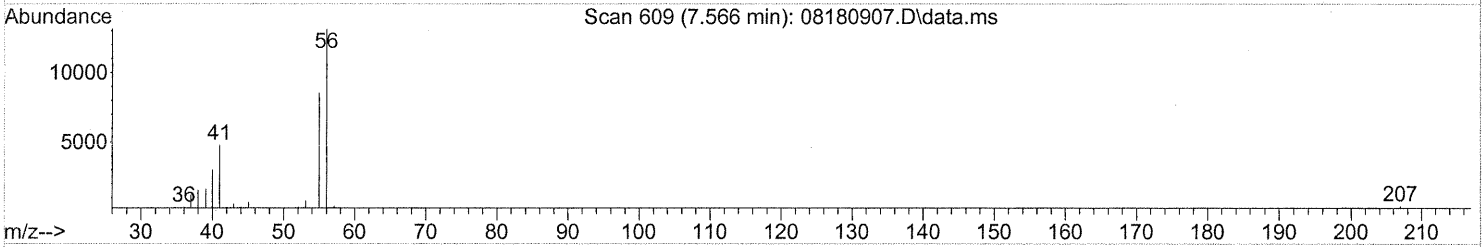
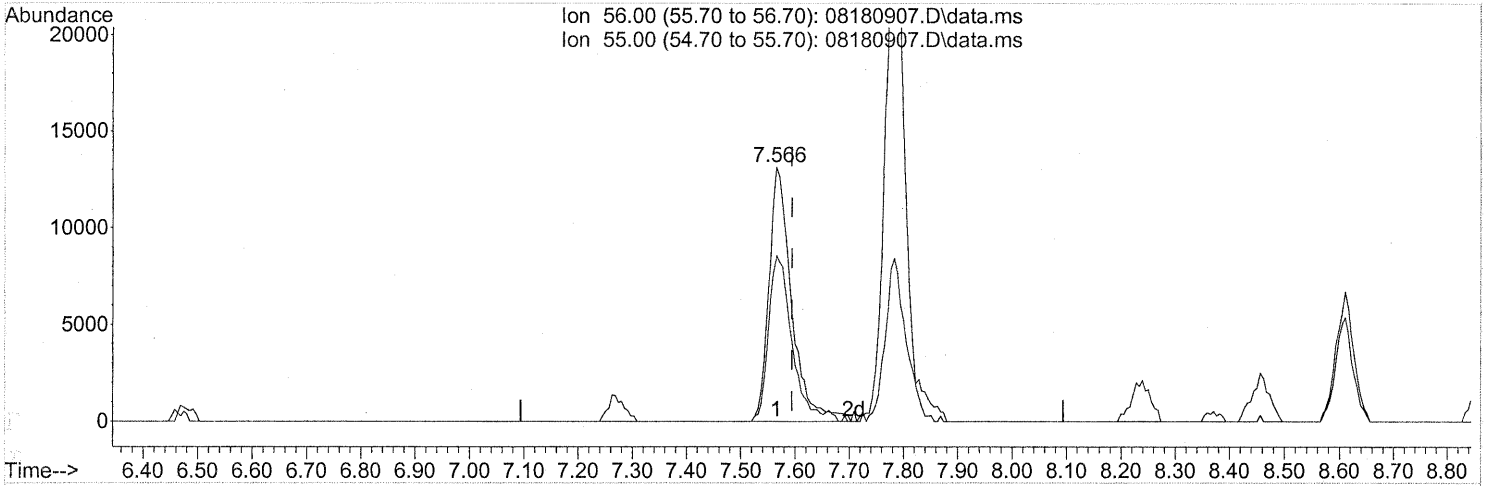
response 2487974

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 08180907.D\data.ms

(12) Acrolein (T)

7.566min (-0.029) 4.93ng

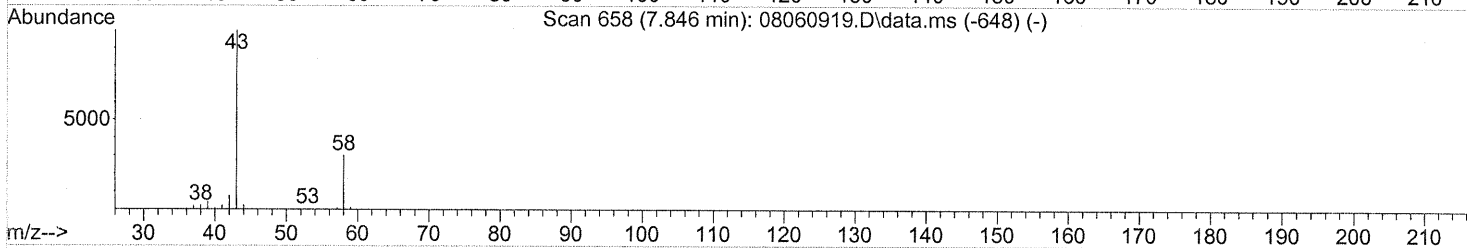
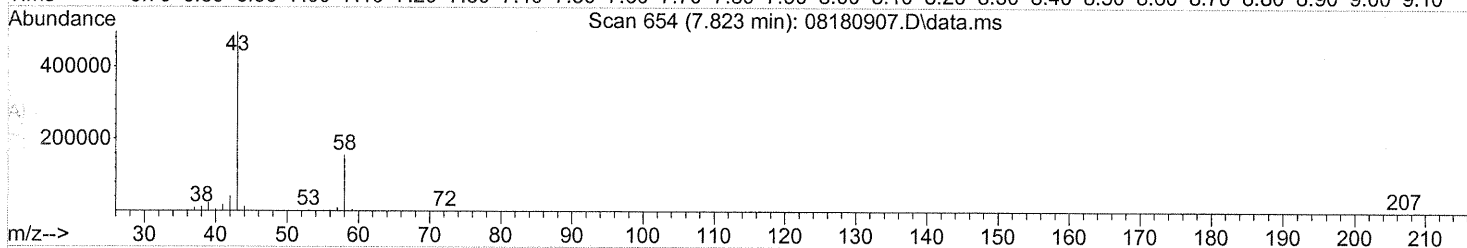
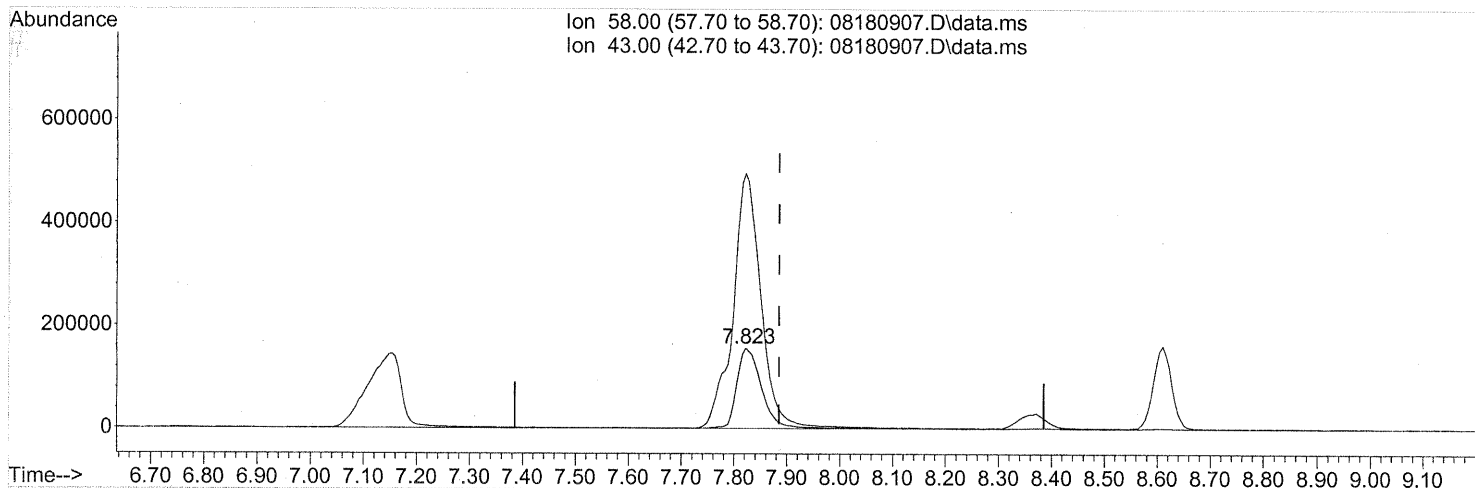
response 38195

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	67.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

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TIC: 08180907.D\data.ms

(13) Acetone (T)

7.823min (-0.063) 52.70ng

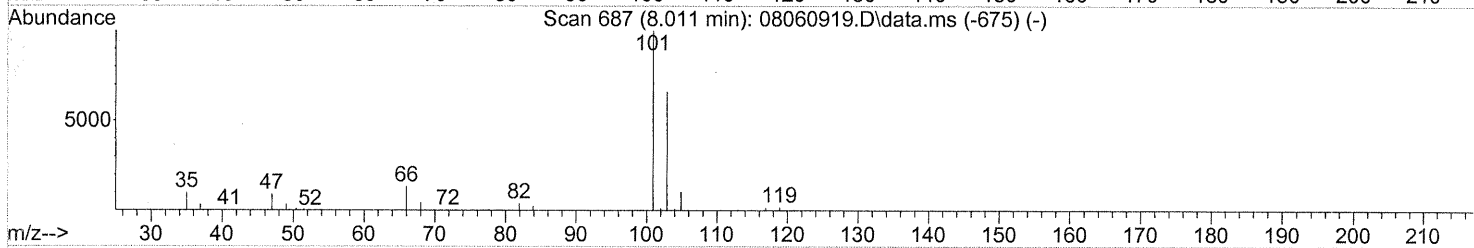
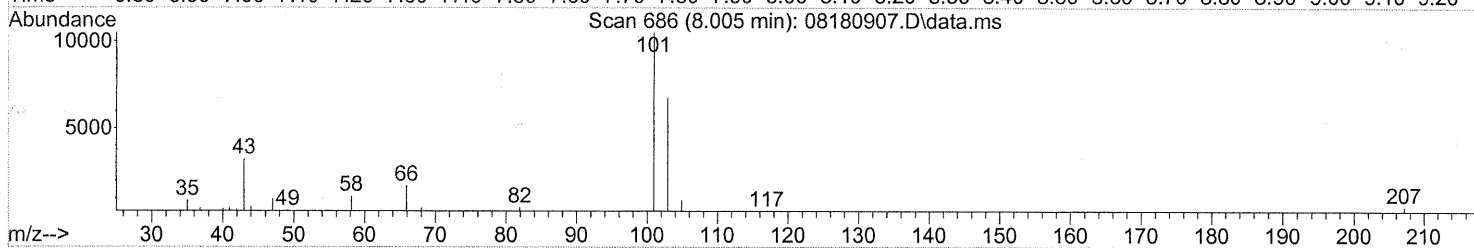
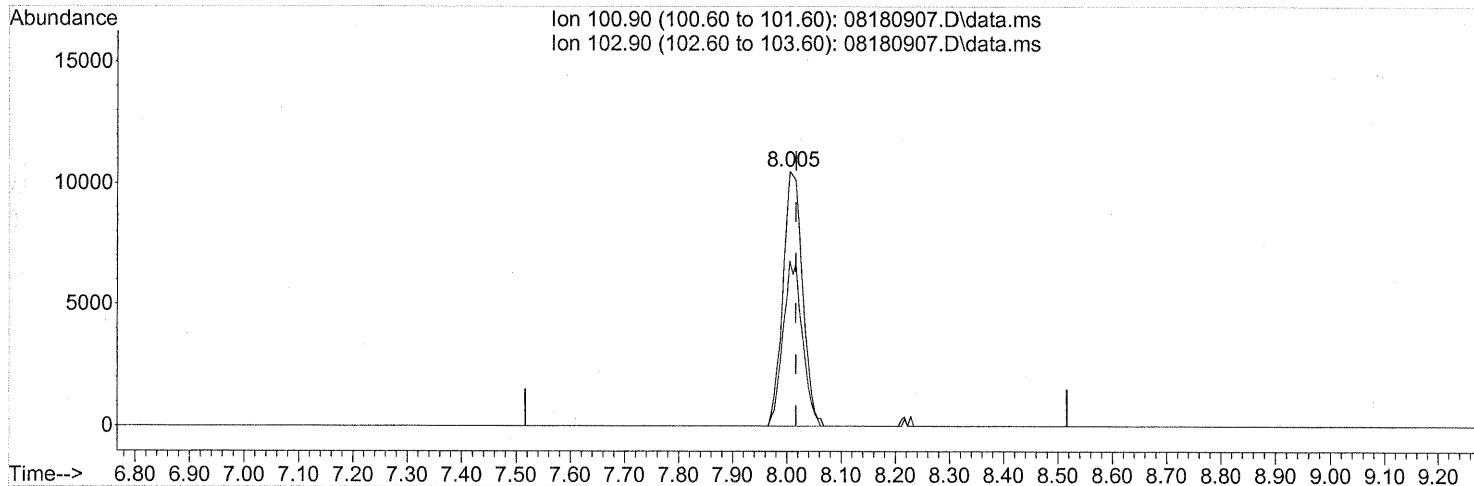
response 506479

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	362.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 08180907.D\data.ms

(14) Trichlorofluoromethane (T)

8.005min (-0.011) 1.11ng

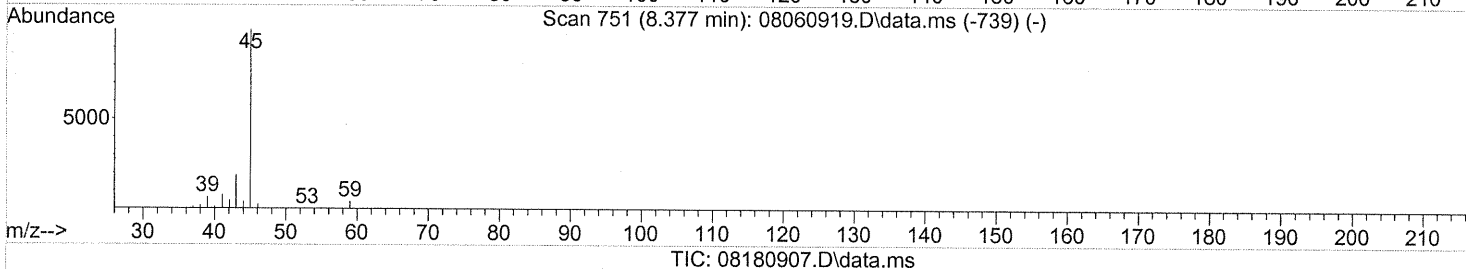
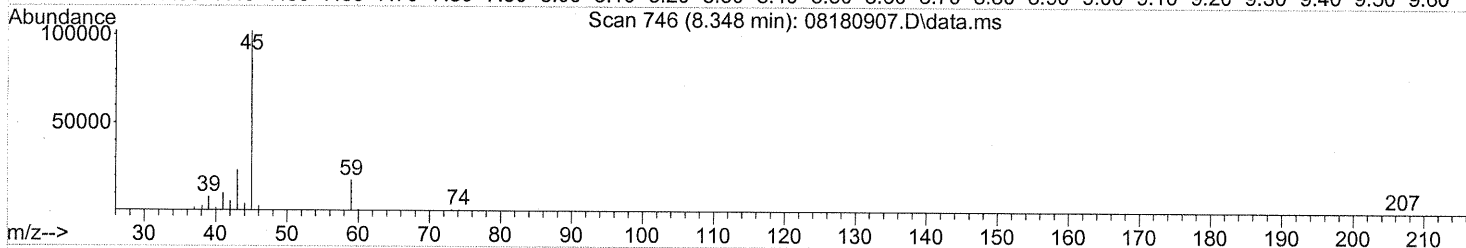
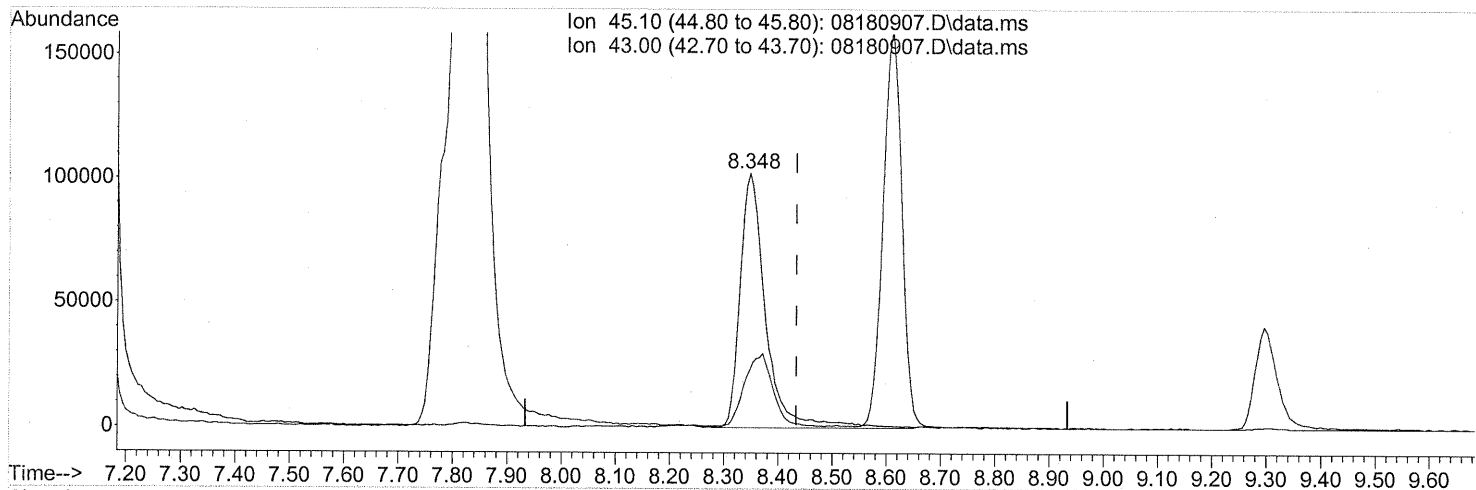
response 26253

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	63.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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

8.348min (-0.086) 8.86ng

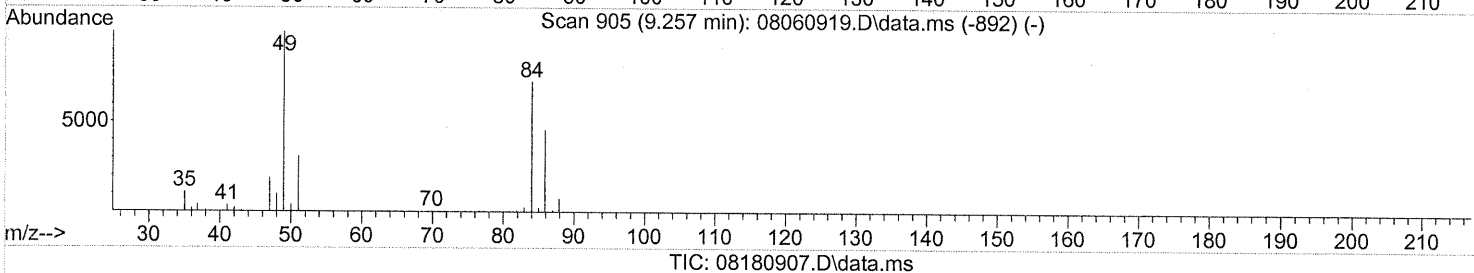
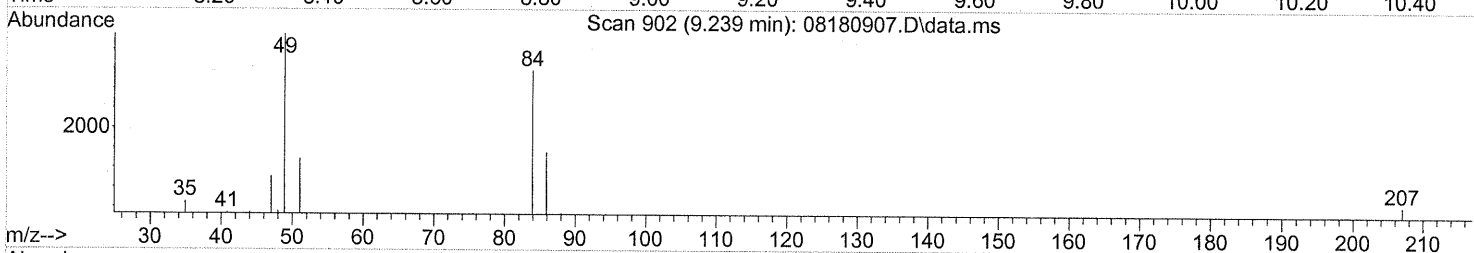
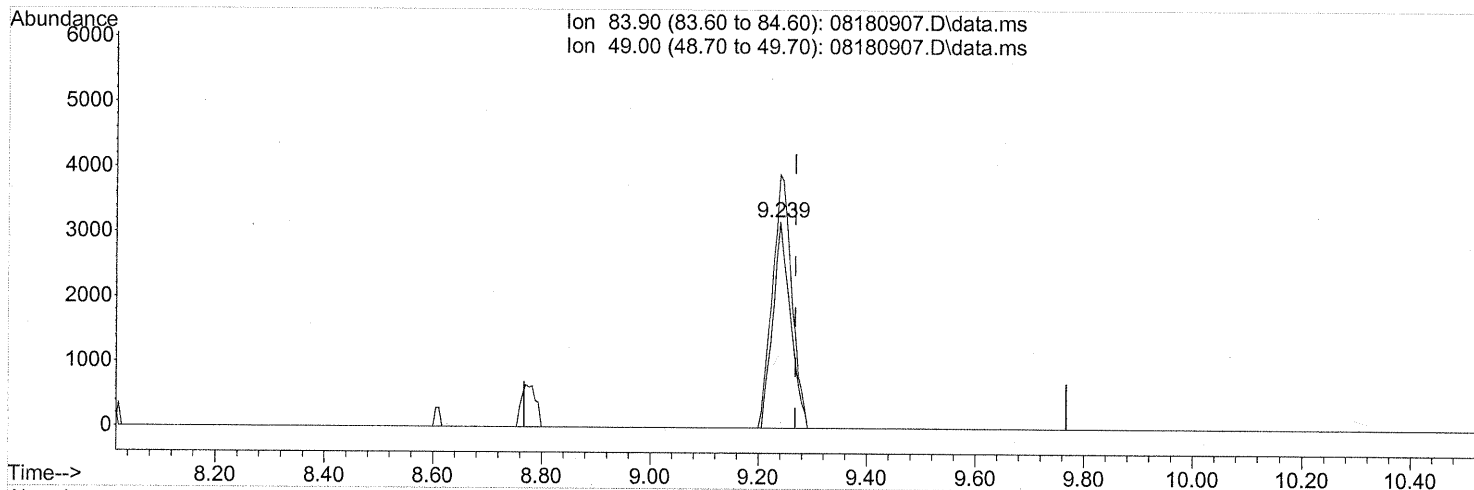
response 334748

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

Quantitation Report (Qedit)

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(19) Methylene Chloride (T)

9.239min (-0.029) 0.56ng

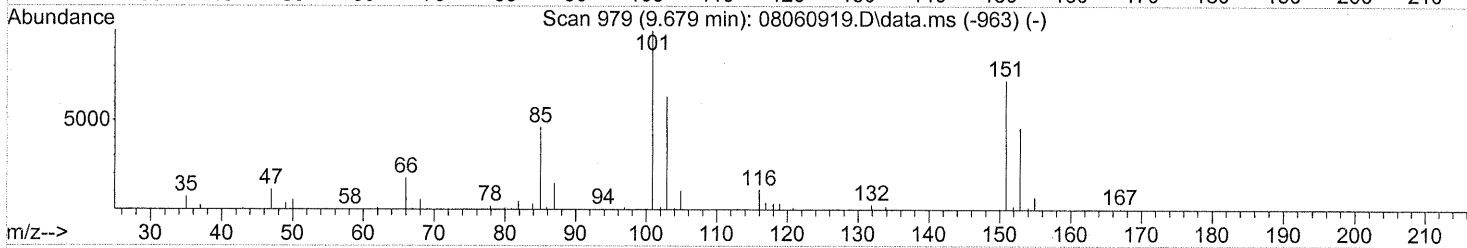
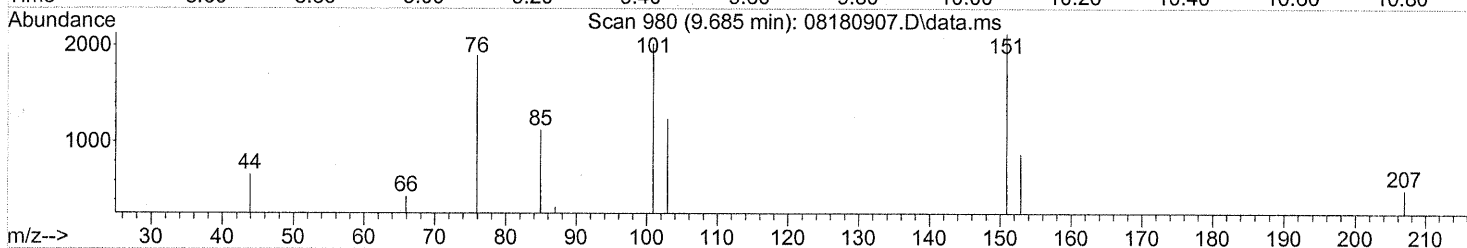
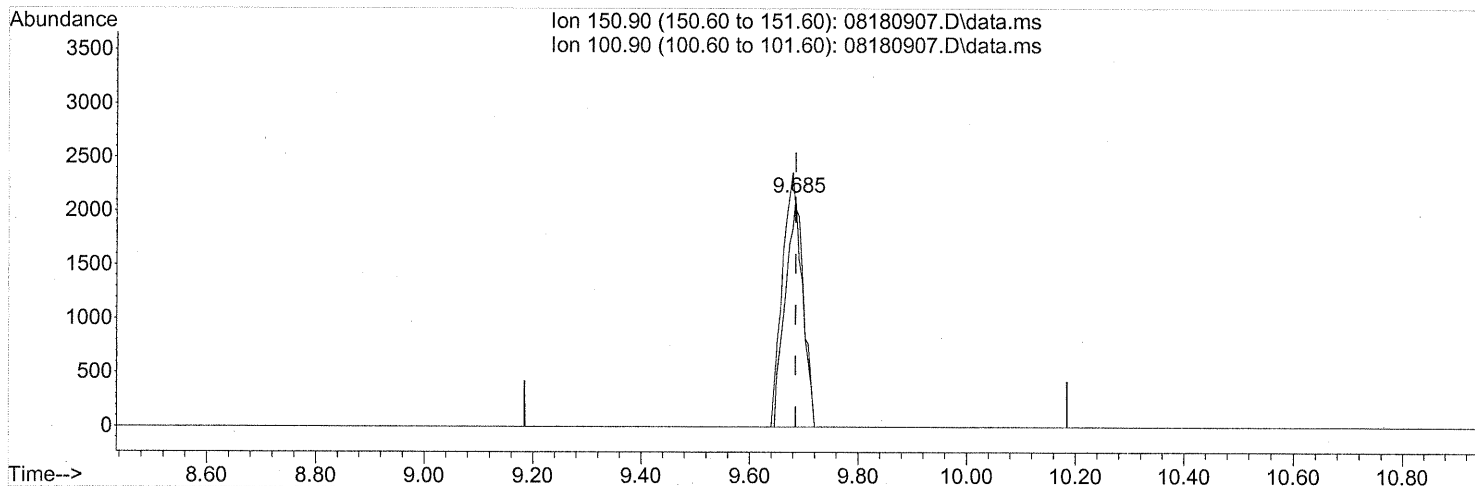
response 7211

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	135.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 08180907.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.685min (-0.000) 0.56ng

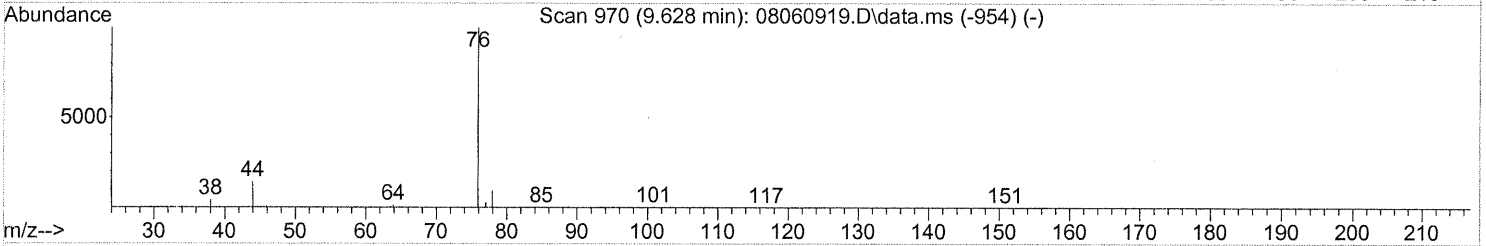
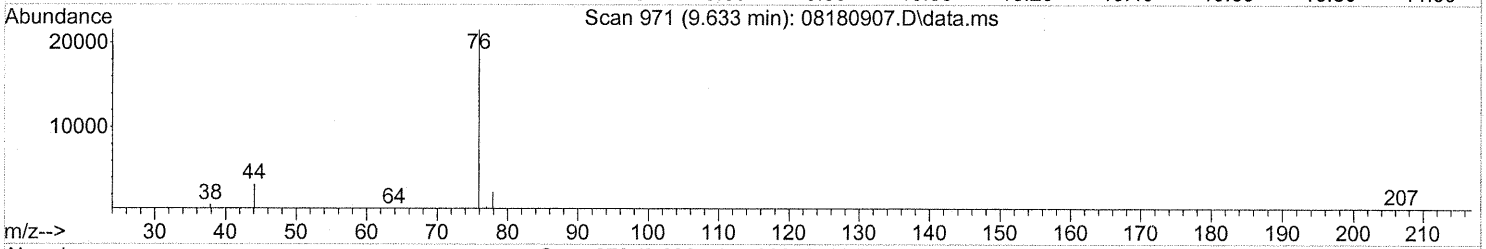
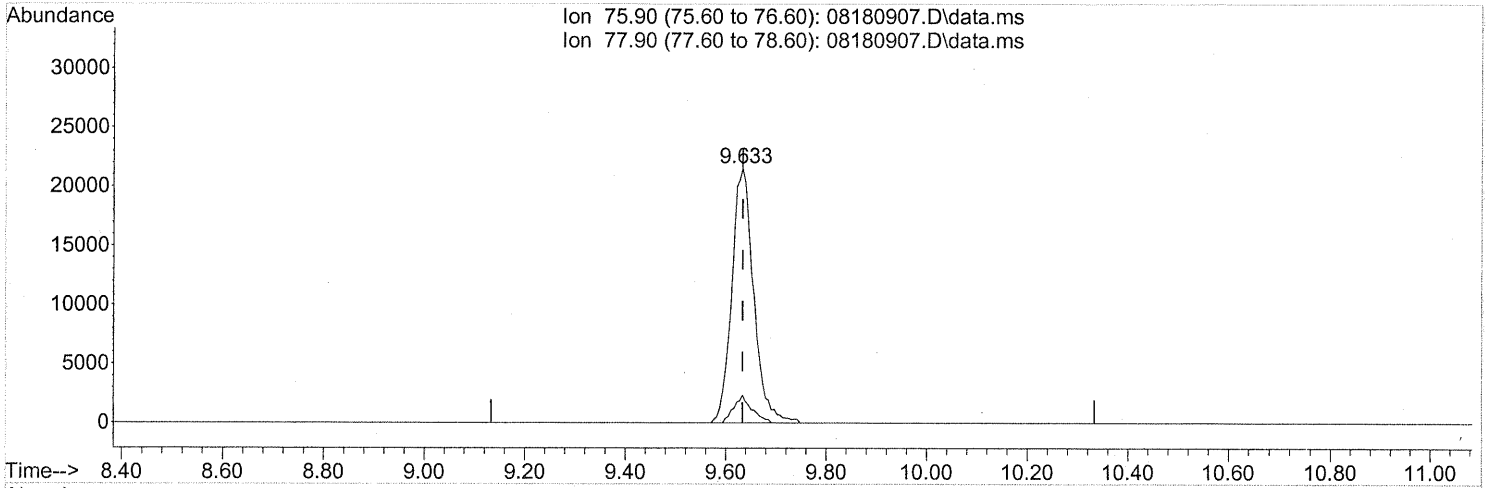
response 4805

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	126.33
0.00	0.00	0.00
0.00	0.00	0.00

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(22) Carbon Disulfide (T)

9.633min (-0.000) 1.43ng

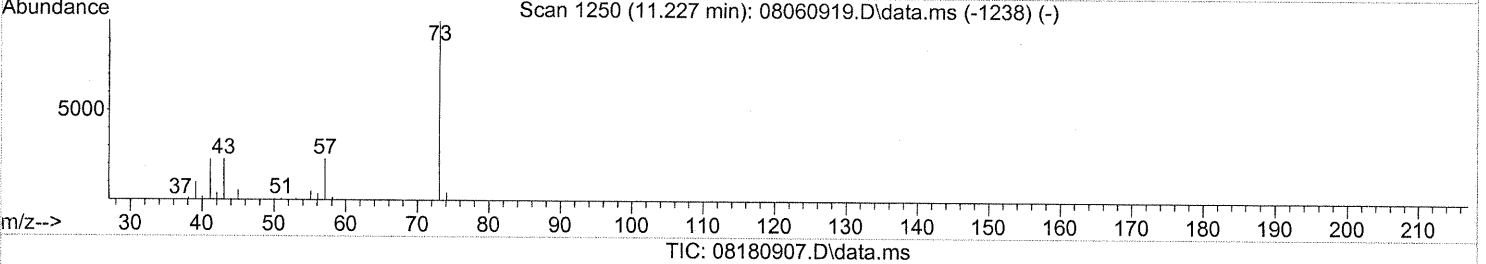
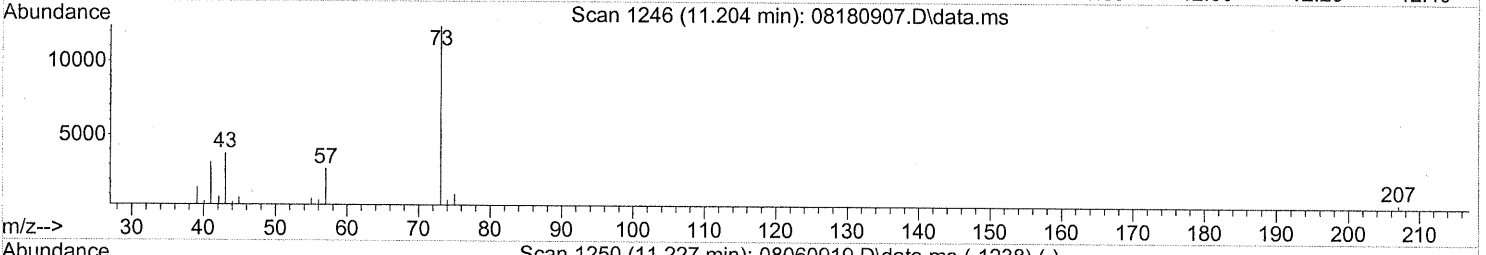
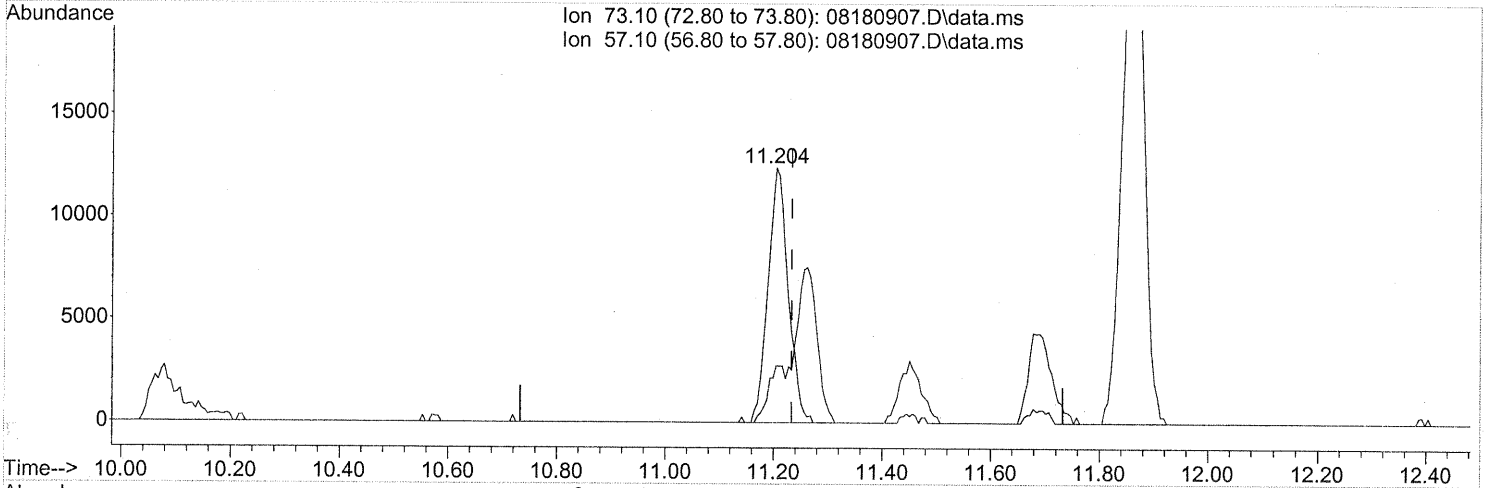
response 65127

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.87
0.00	0.00	0.00
0.00	0.00	0.00

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(25) Methyl tert-Butyl Ether (T)

11.204min (-0.029) 0.88ng

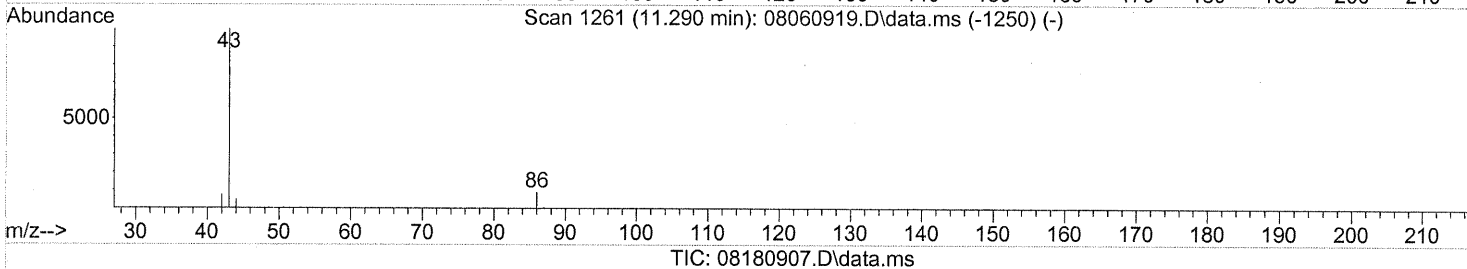
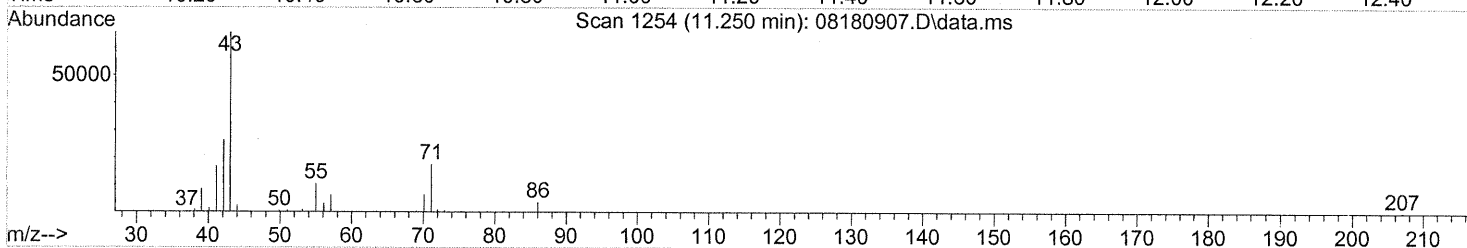
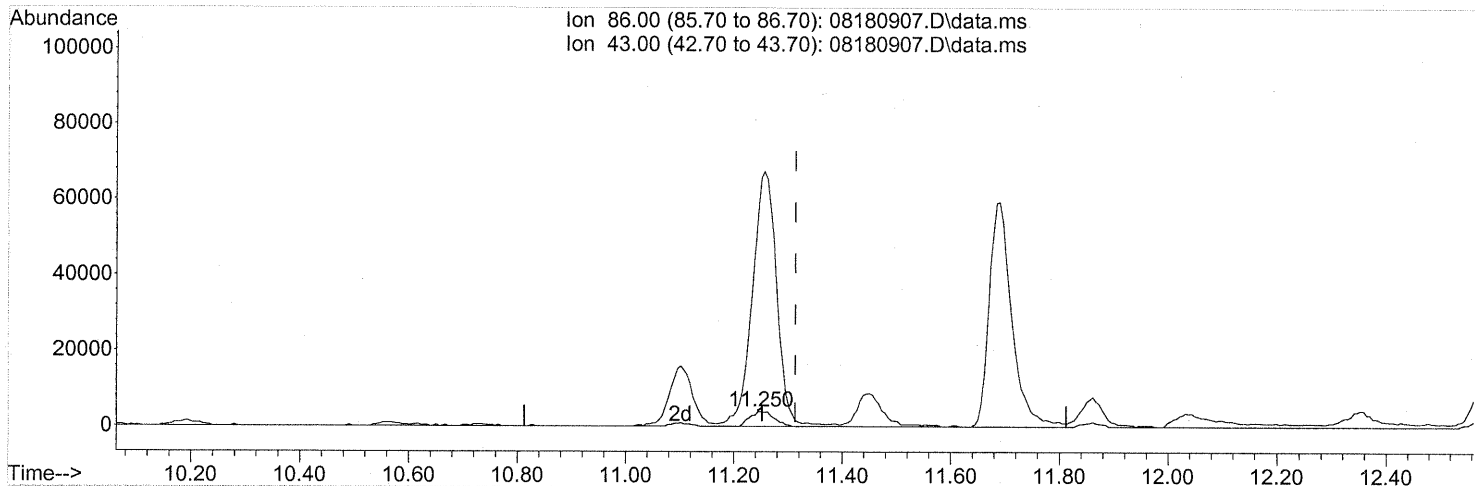
response 31876

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	24.07
0.00	0.00	0.00
0.00	0.00	0.00

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(26) Vinyl Acetate (T)
 11.250min (-0.063) 6.00ng
 response 11727

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1742.71#
0.00	0.00	0.00
0.00	0.00	0.00

TP

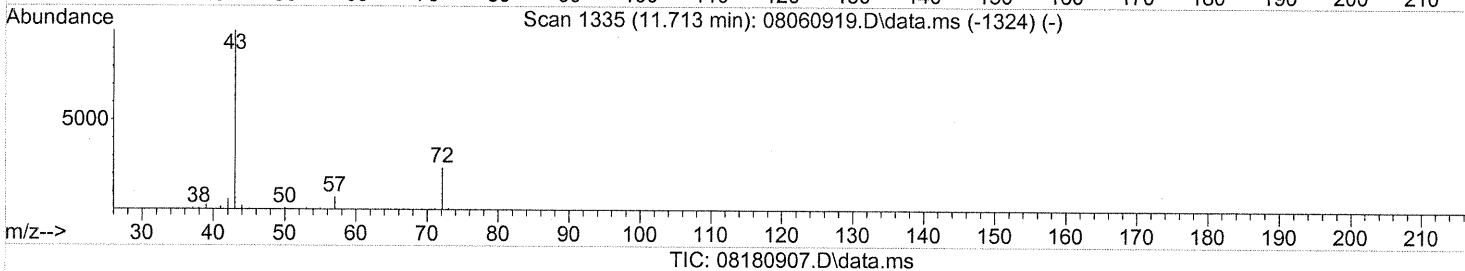
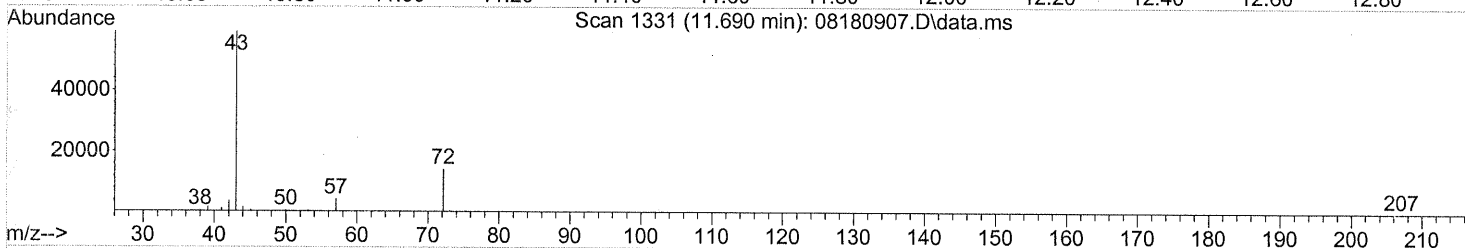
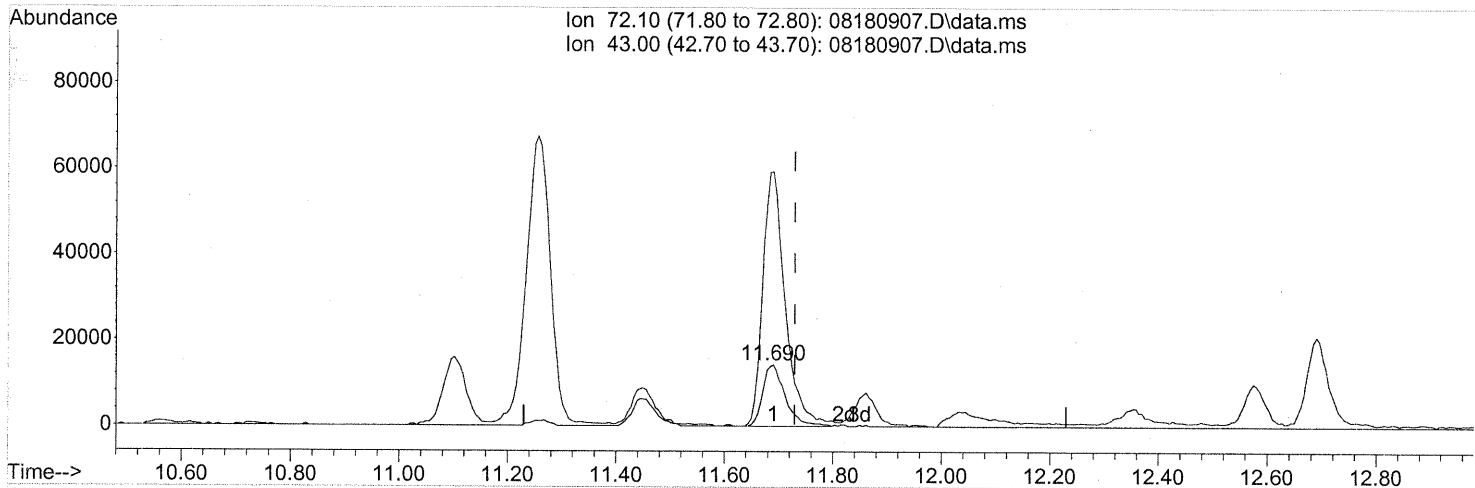
BA 8/22/09

cm 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
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(27) 2-Butanone (MEK) (T)

11.690min (-0.040) 4.73ng

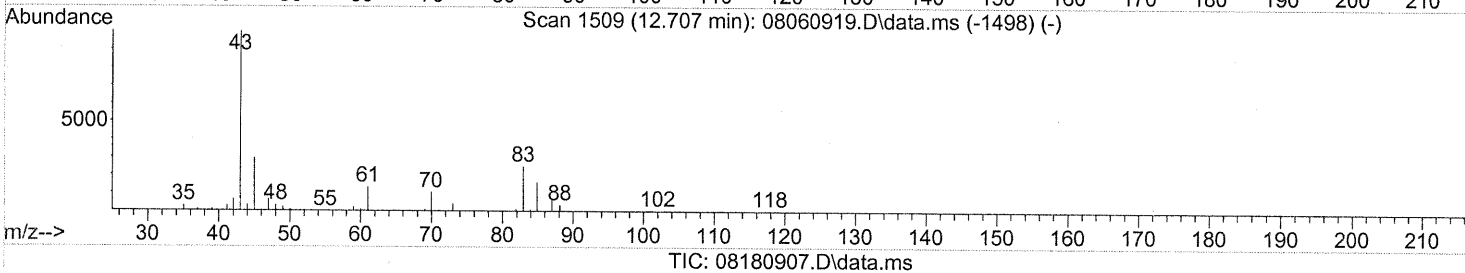
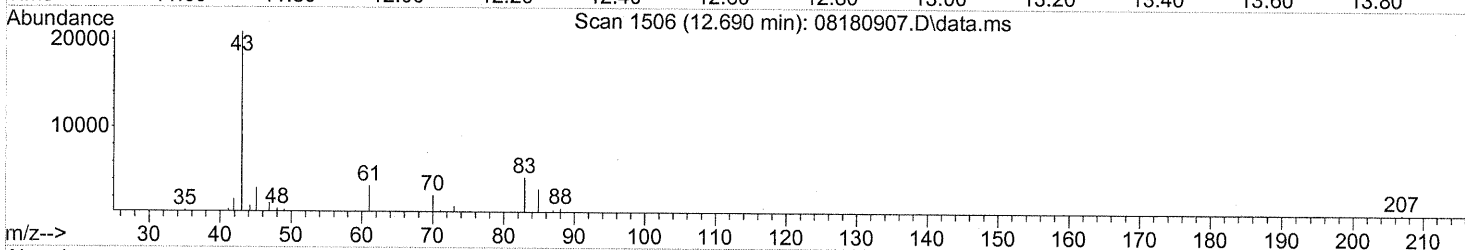
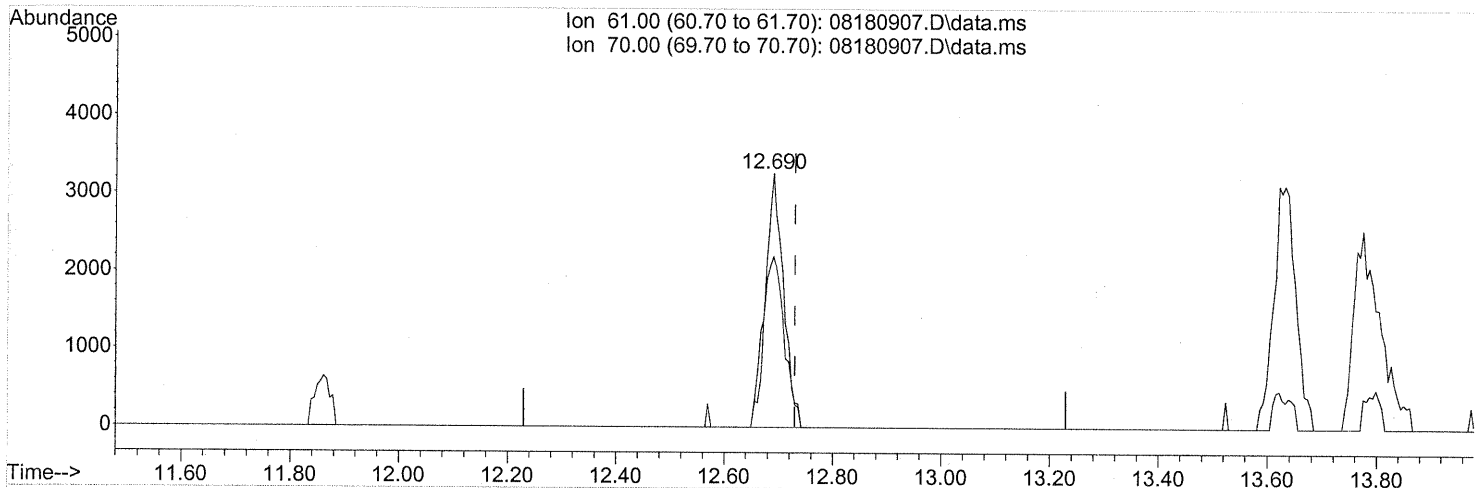
response 41079

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	418.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.690min (-0.040) 1.70ng

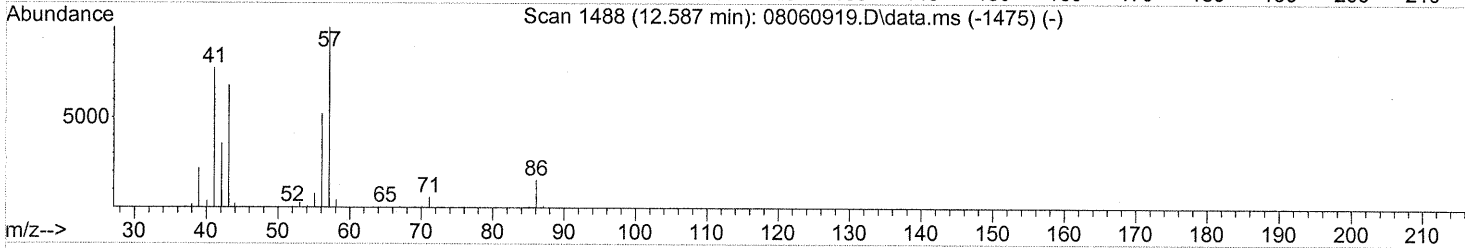
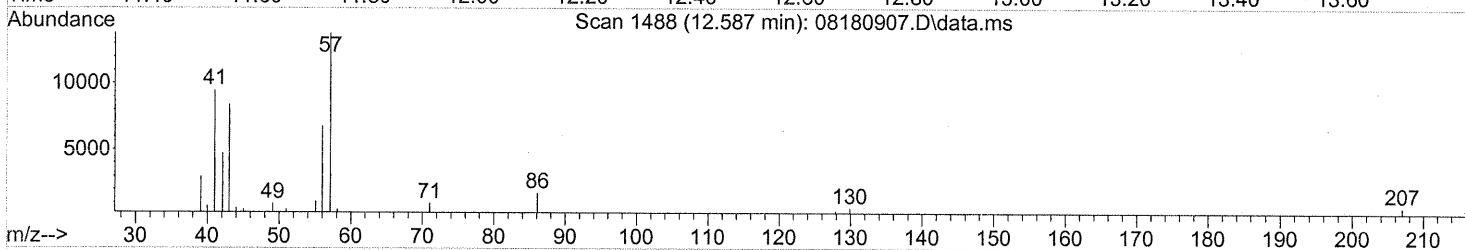
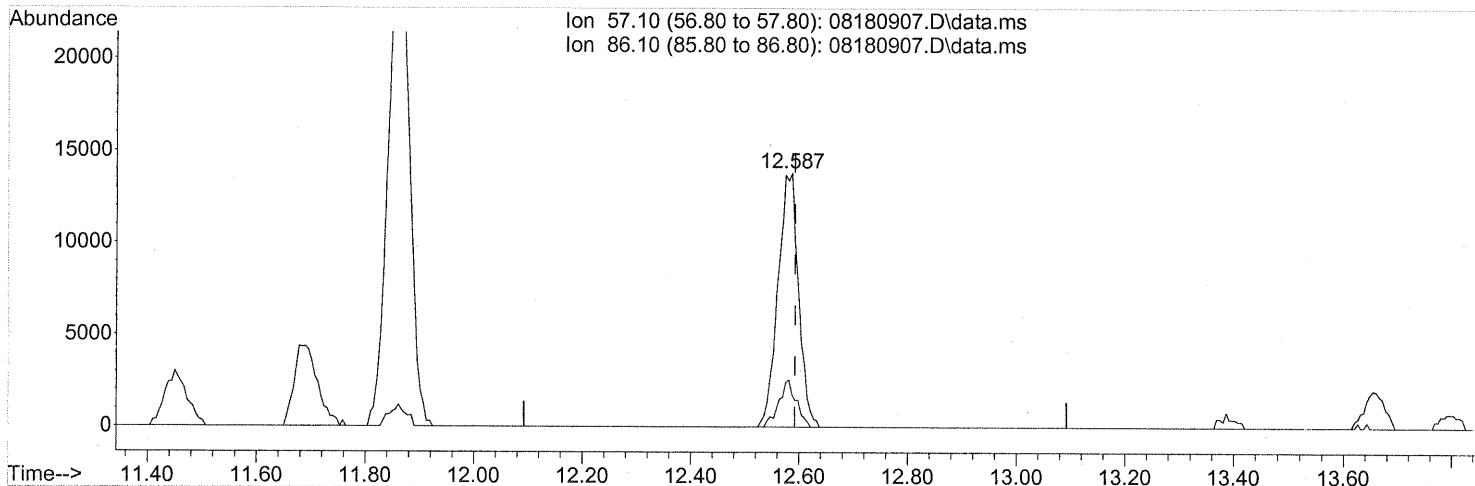
response 7696

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	75.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180907.D\data.ms

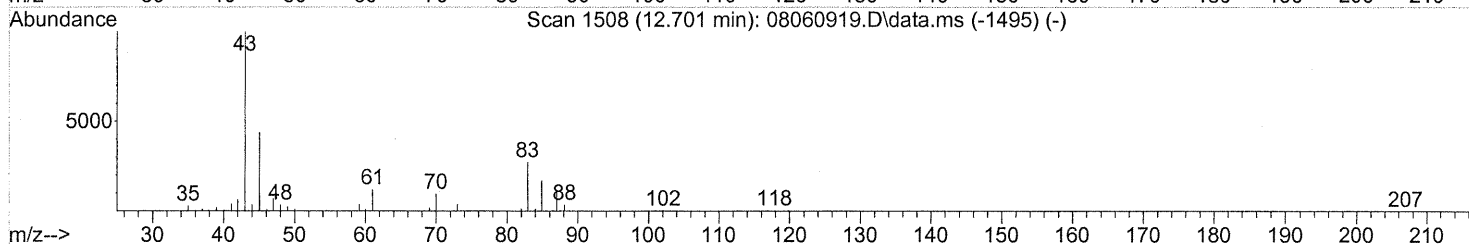
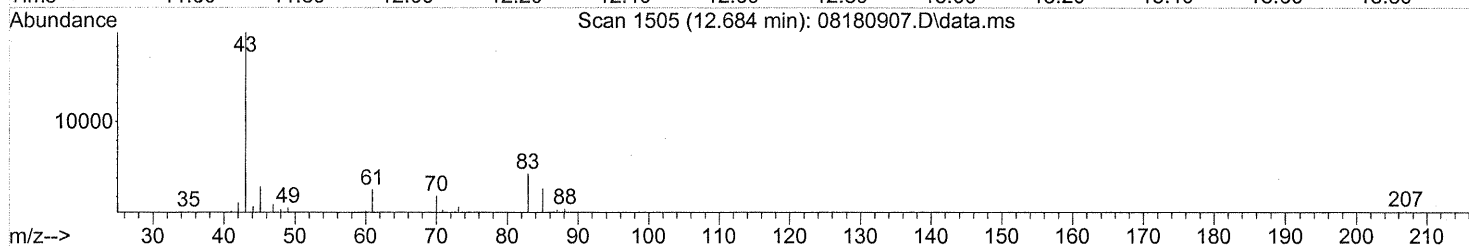
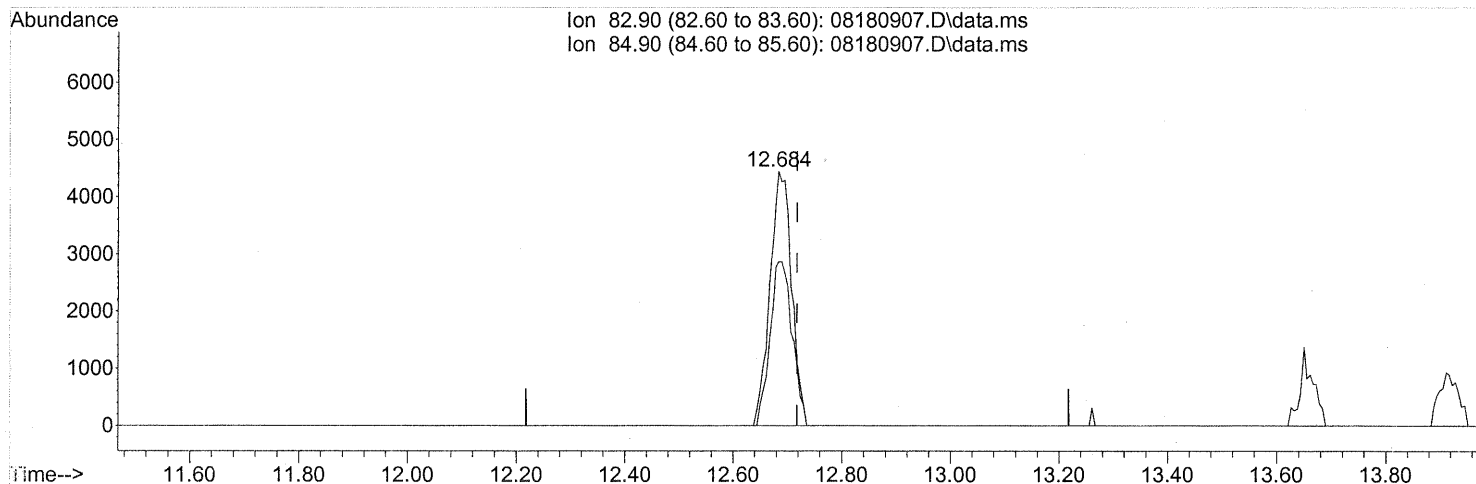
(31) n-Hexane (T)
 12.587min (-0.006) 1.58ng
 response 36481

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180907.D\data.ms

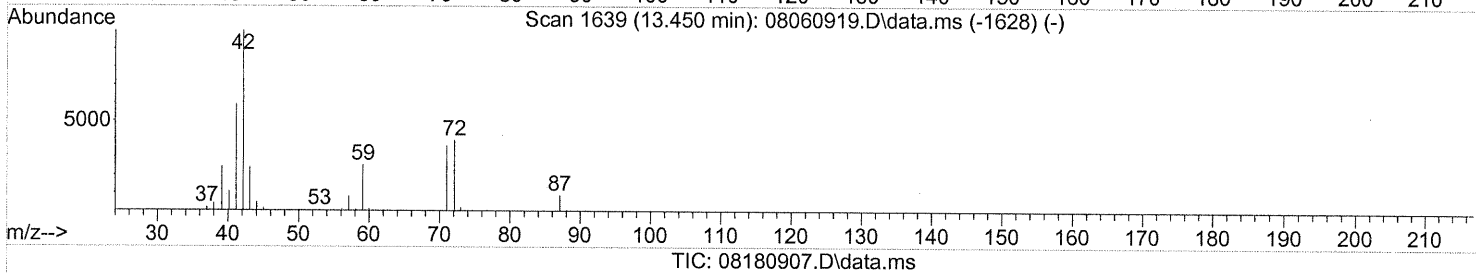
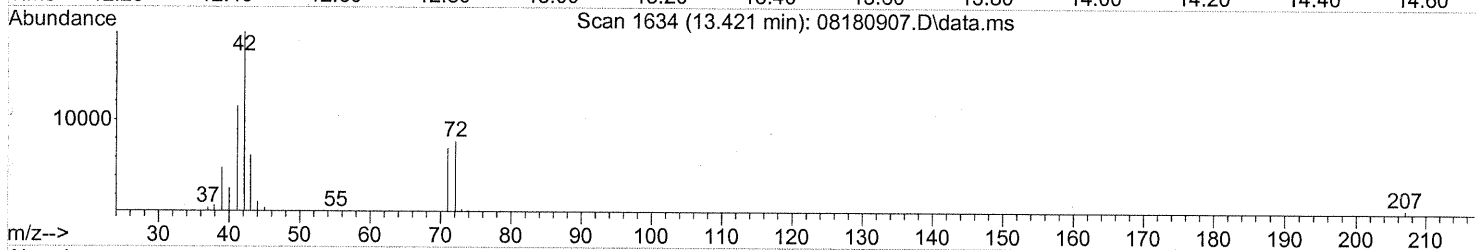
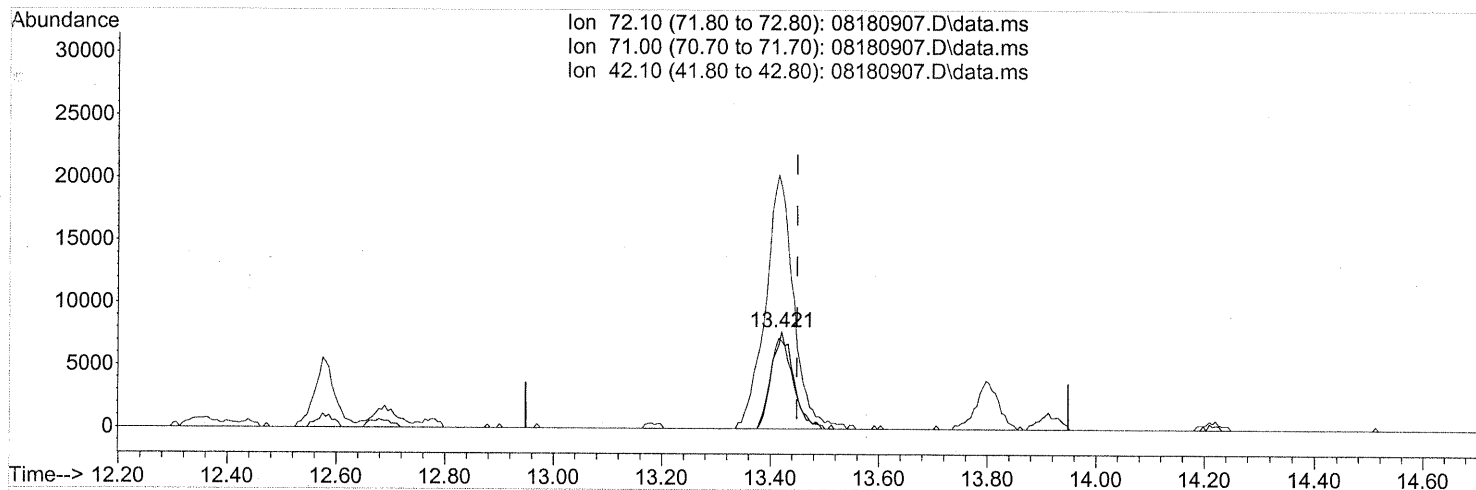
(32) Chloroform (T)
 12.684min (-0.034) 0.61ng
 response 12349

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	66.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.421min (-0.028) 2.38ng

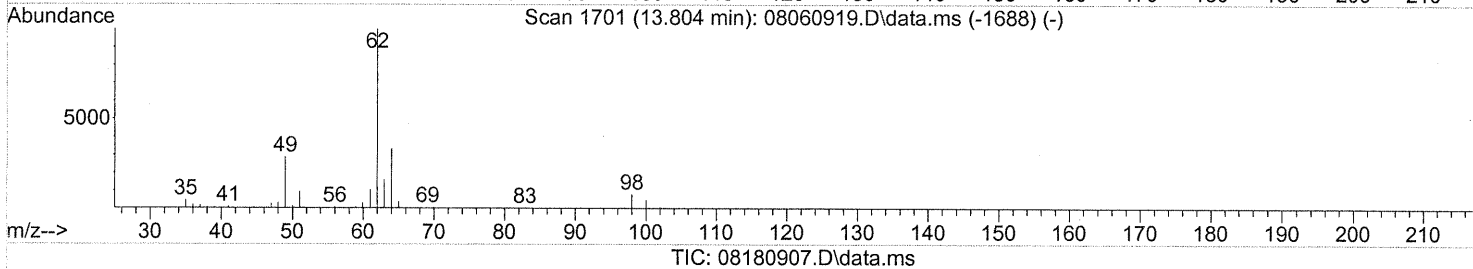
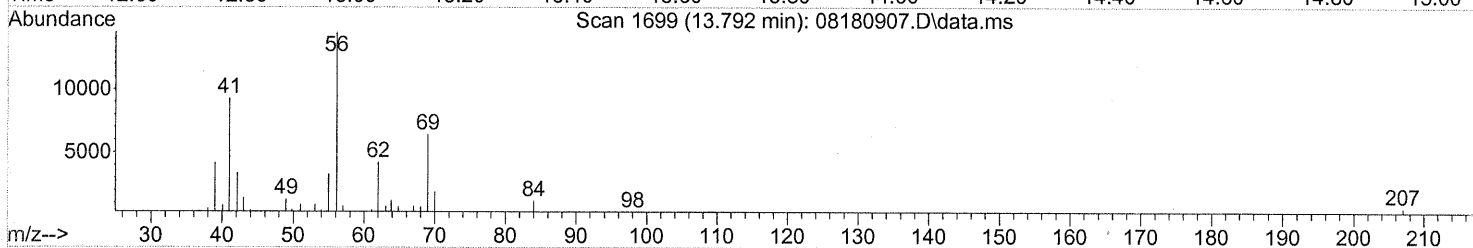
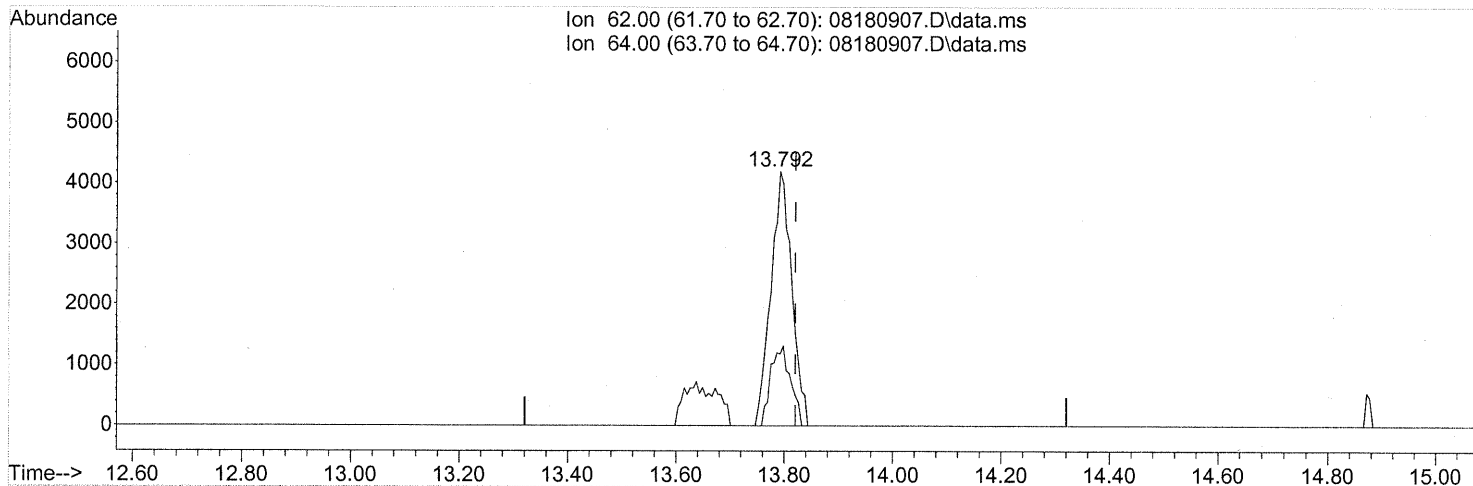
response 22060

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	95.76
42.10	253.40	331.35#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 0.60ng

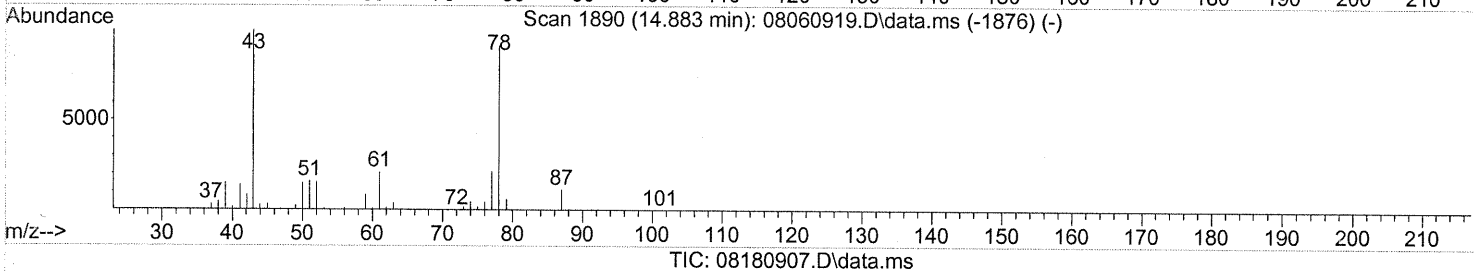
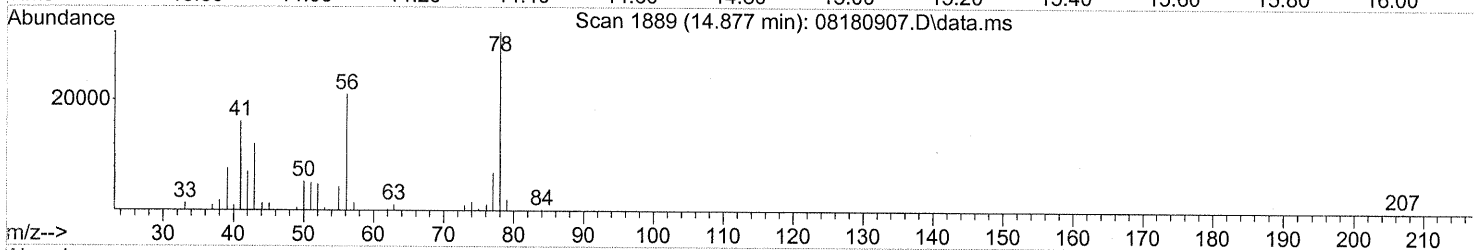
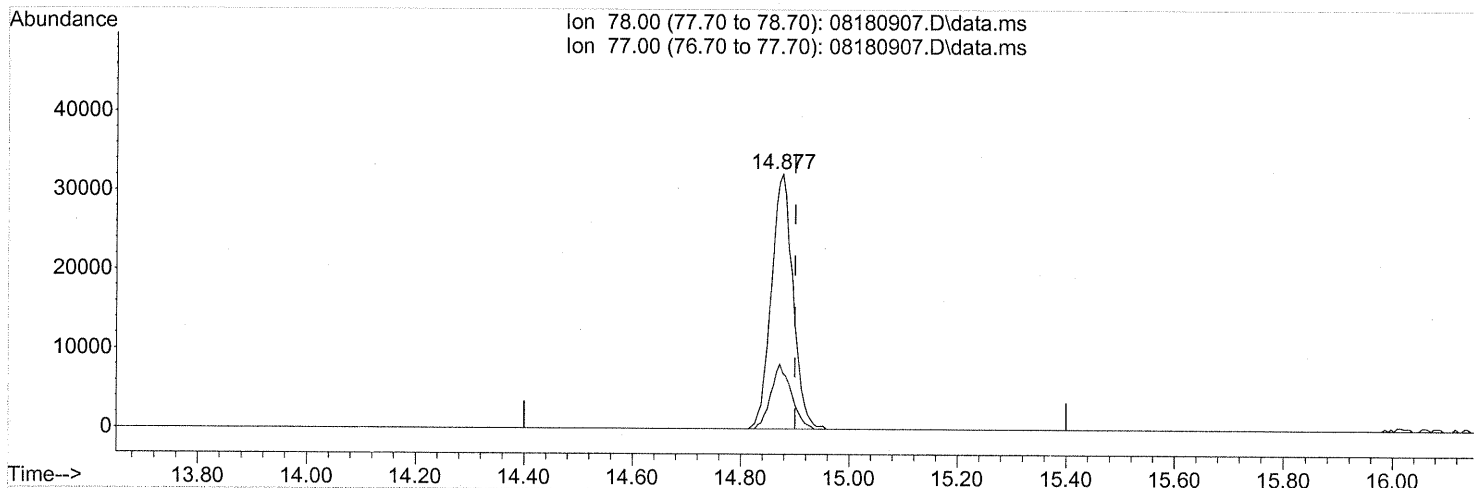
response 11213

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	29.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



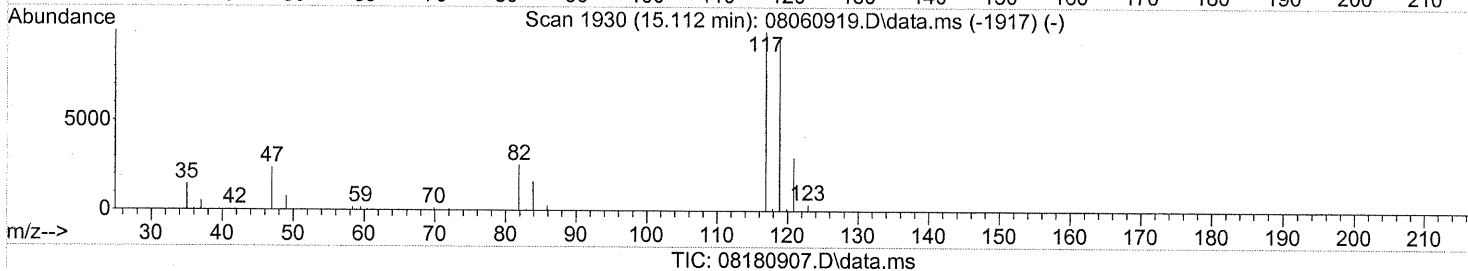
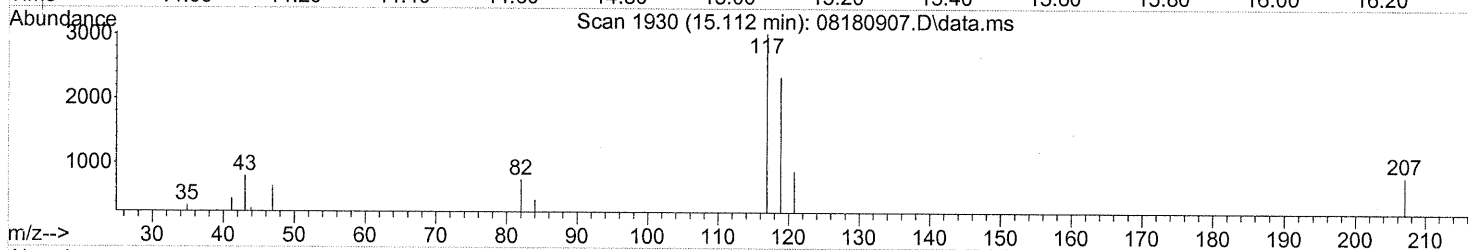
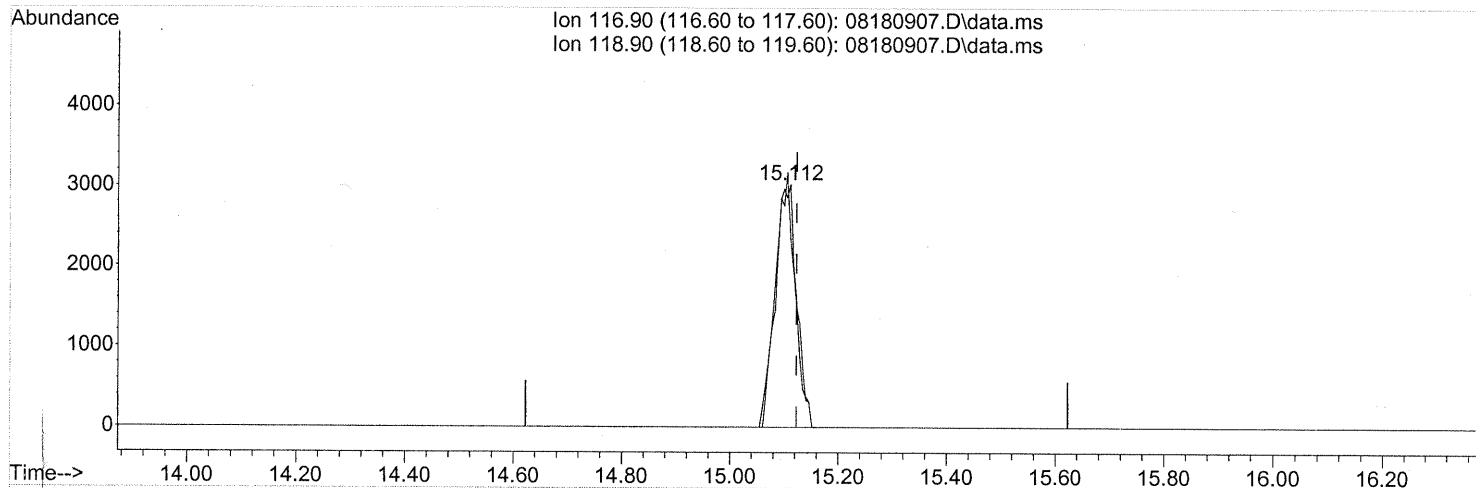
(41) Benzene (T)
 14.877min (-0.023) 1.69ng
 response 89171

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.112min (-0.011) 0.49ng

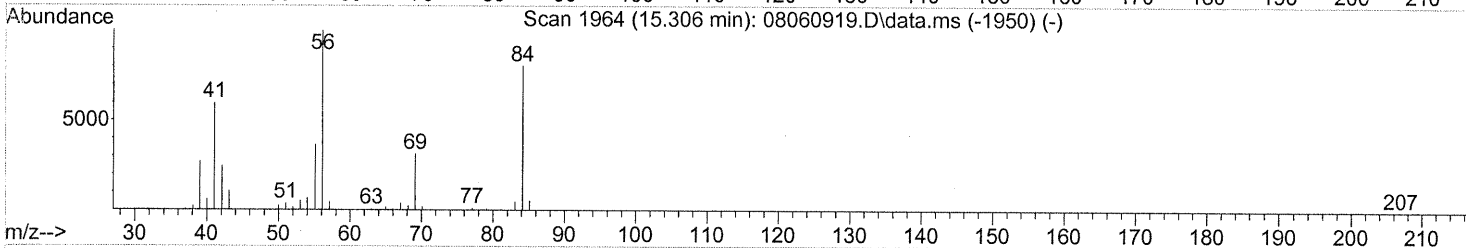
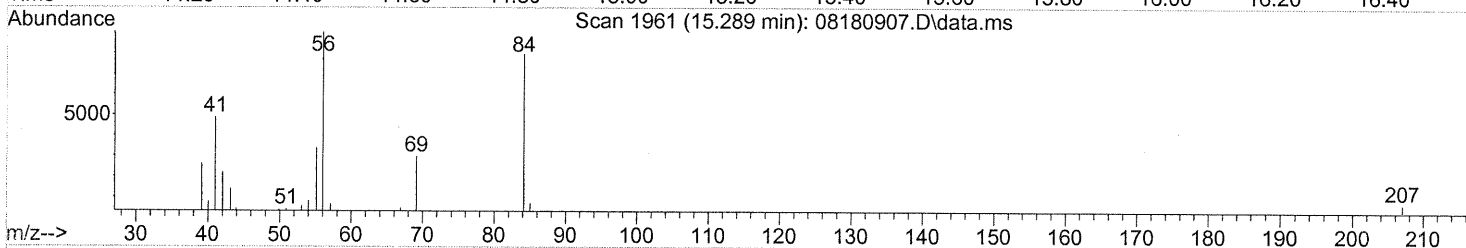
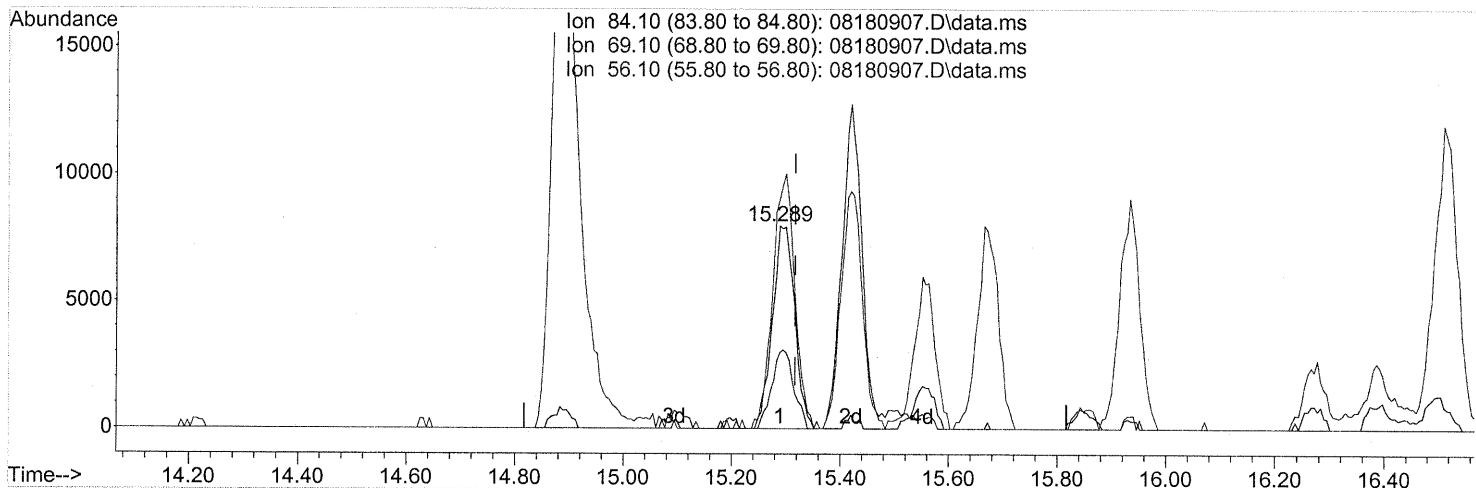
response 8297

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	96.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180907.D\data.ms

(43) Cyclohexane (T)

15.289min (-0.029) 1.17ng

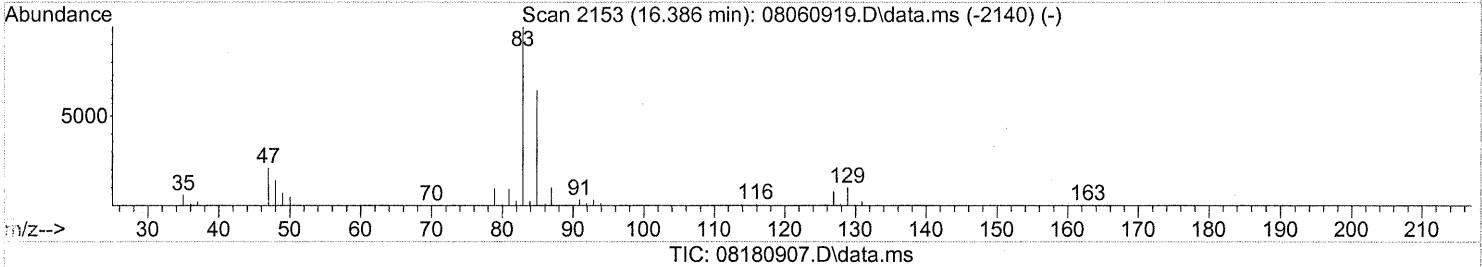
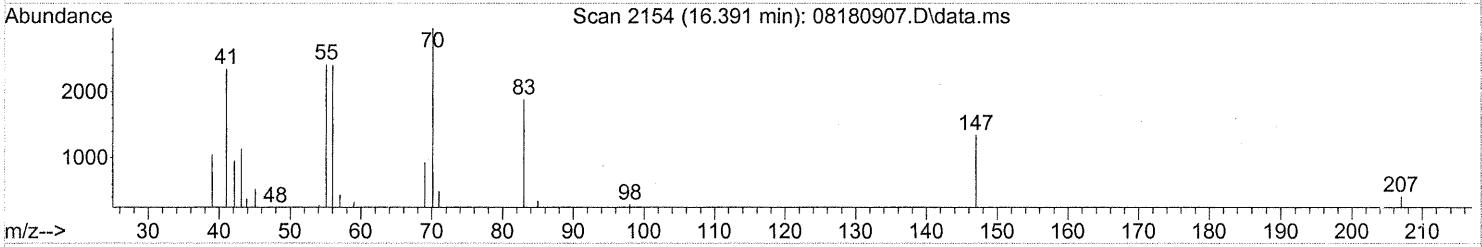
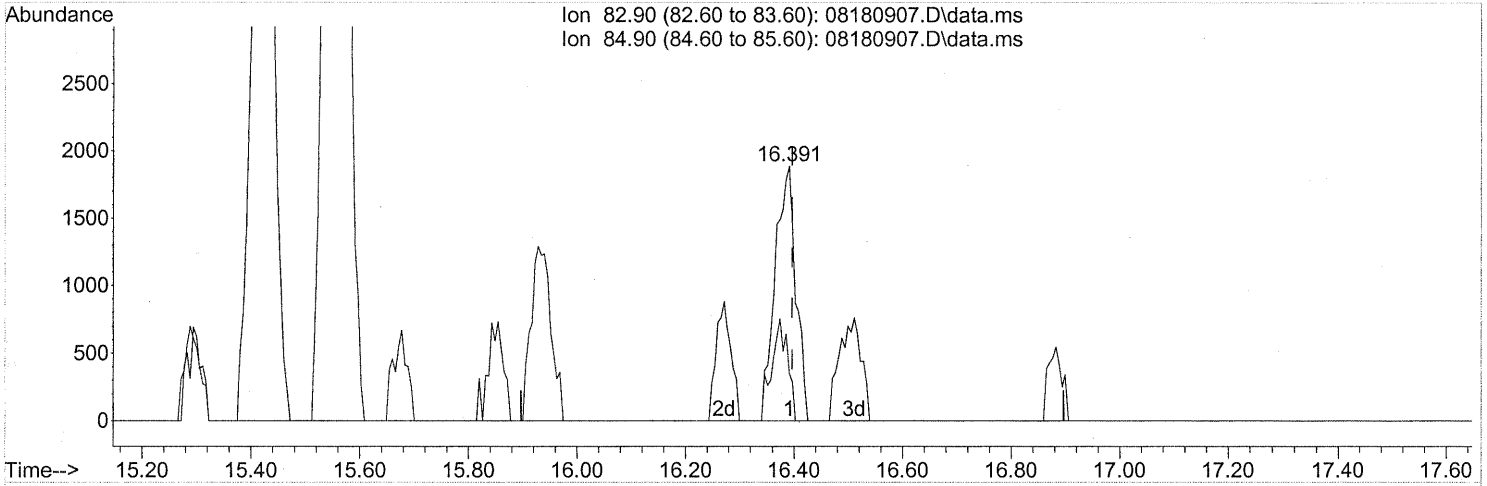
response 22628

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	38.15
56.10	127.50	125.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.391min (-0.006) 0.29ng

response 4998

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	31.23#
0.00	0.00	0.00
0.00	0.00	0.00

FP

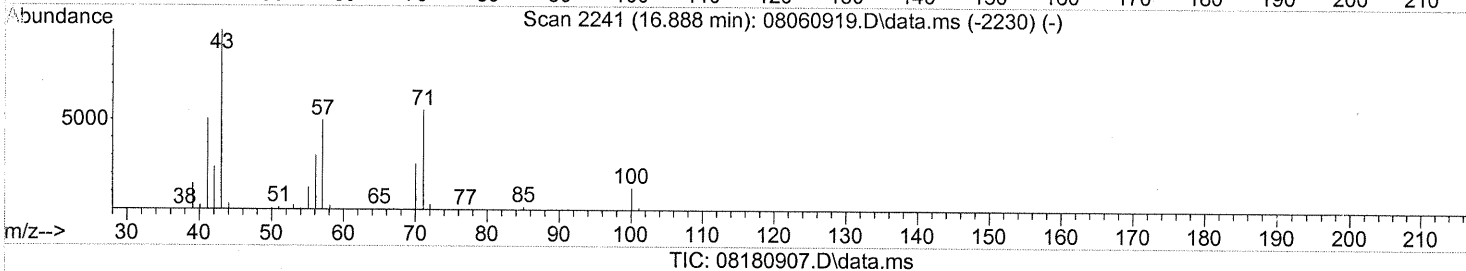
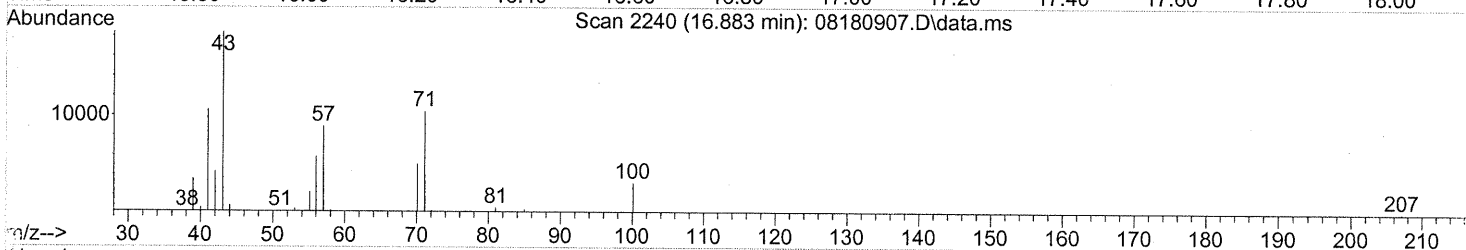
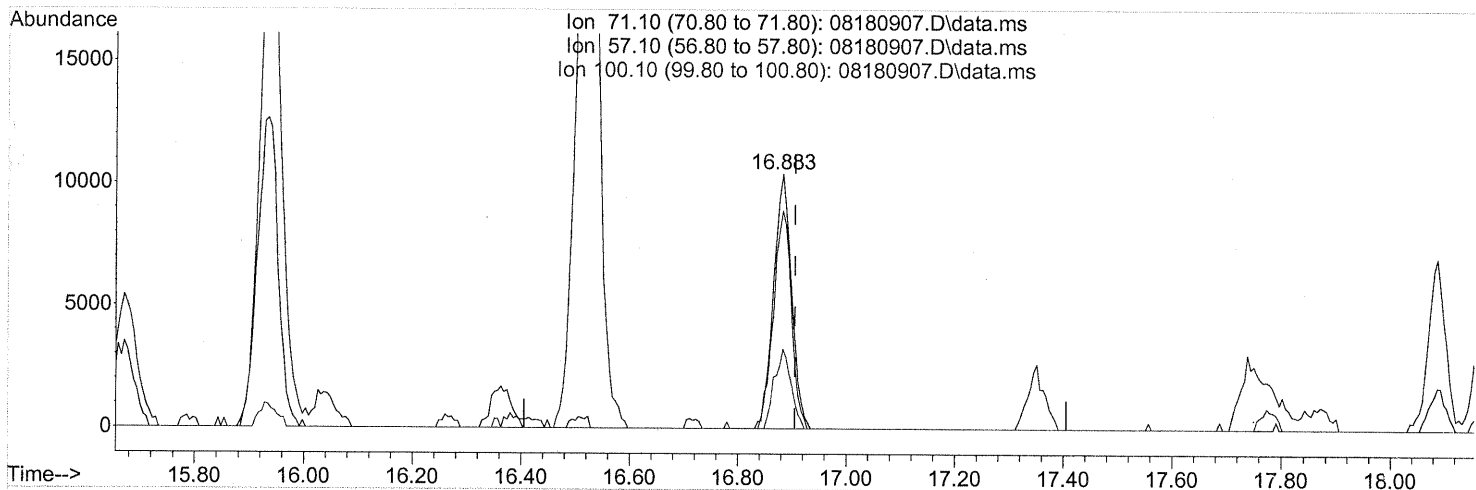
ADP 8/22/09

Em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



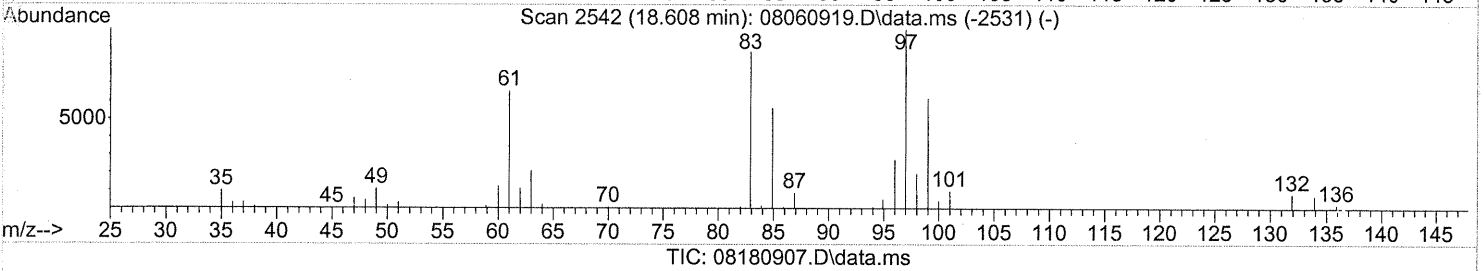
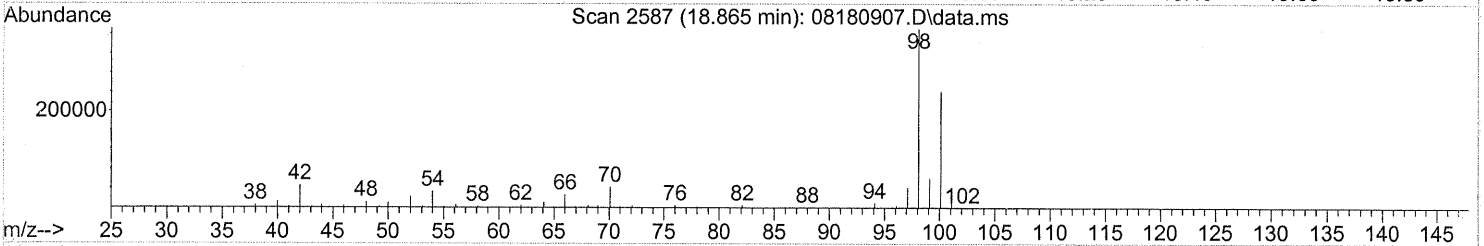
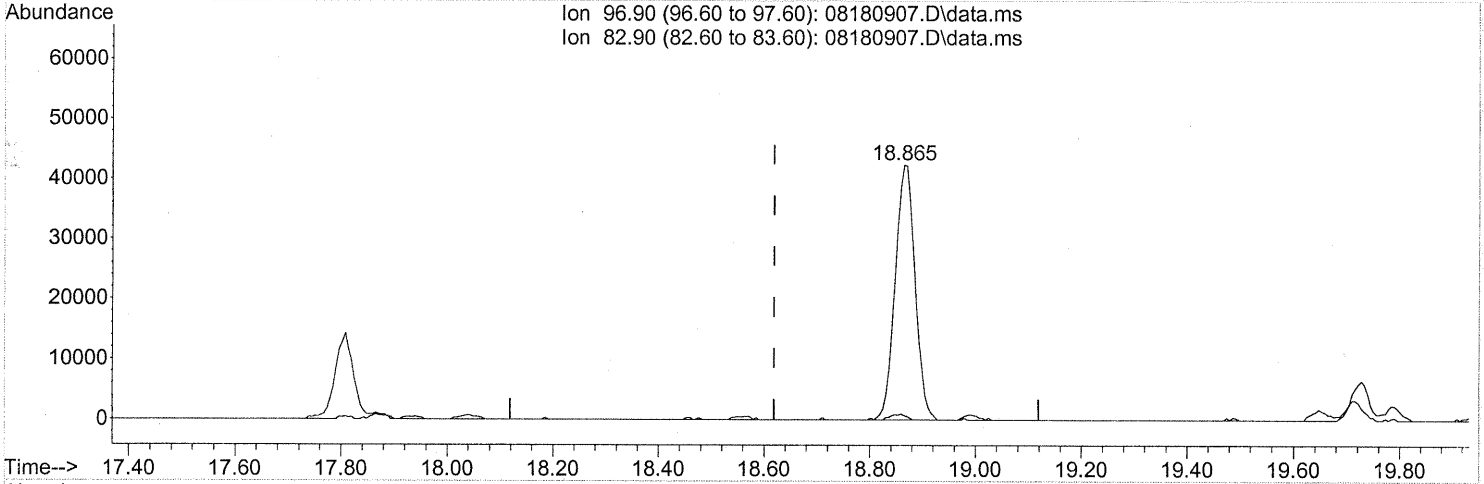
(51) n-Heptane (T)
 16.883min (-0.023) 1.71ng
 response 24123

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	85.81
100.10	26.40	28.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

18.865min (+0.246) 9.60ng

response 110888

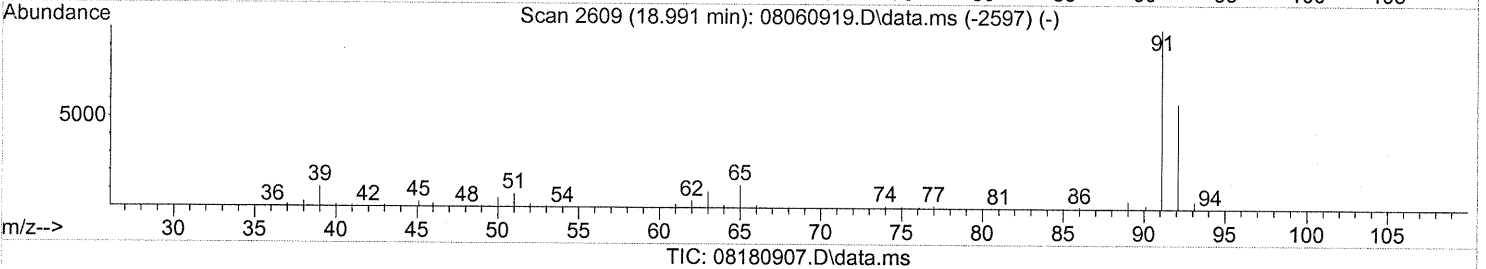
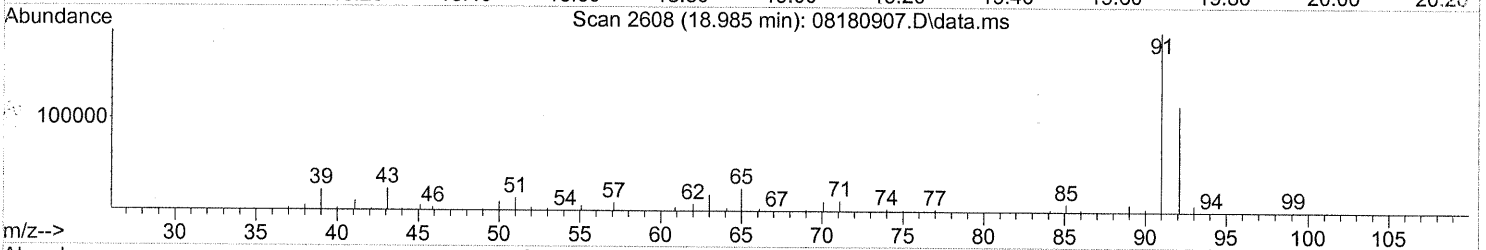
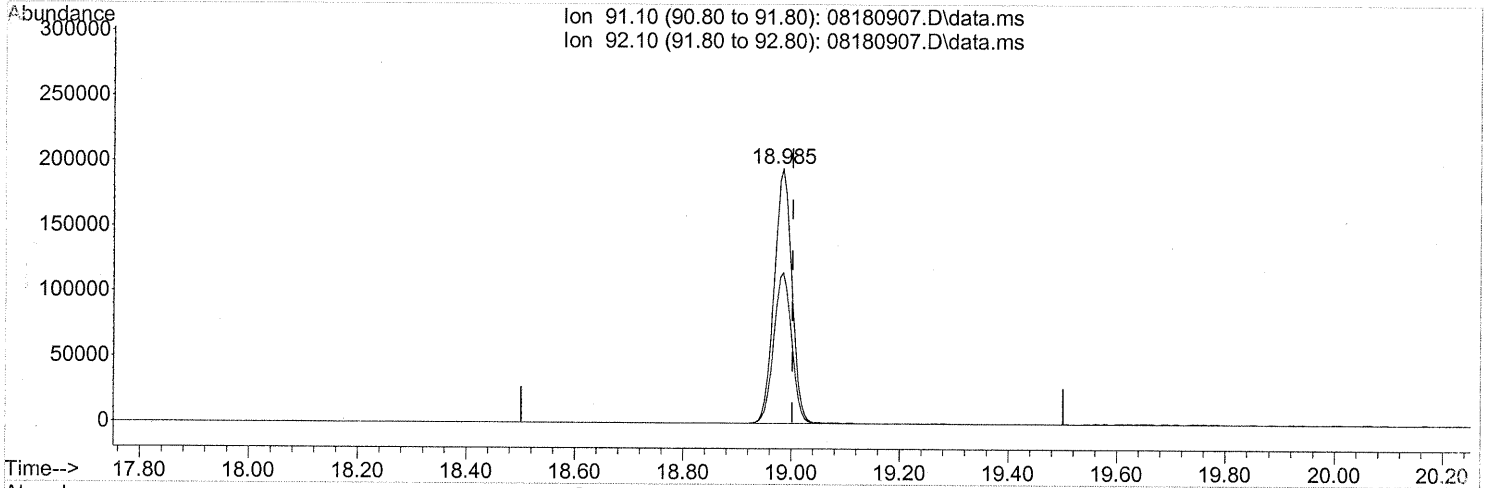
Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.68#
0.00	0.00	0.00
0.00	0.00	0.00

FP
WA 8/22/09 Em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



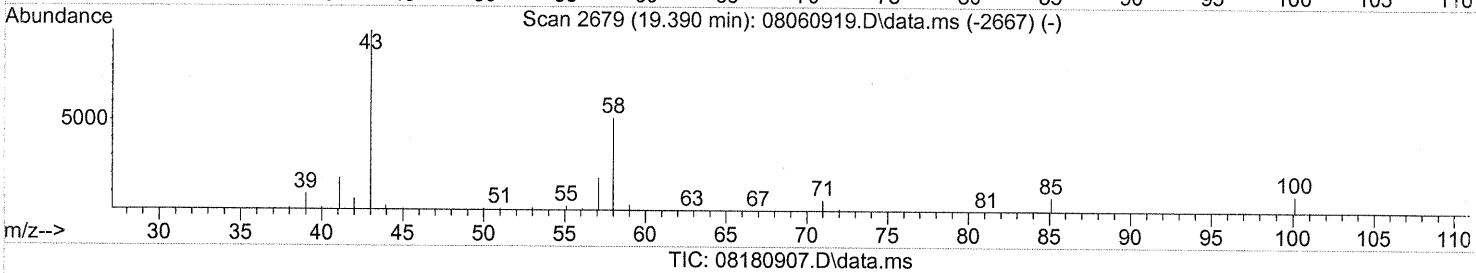
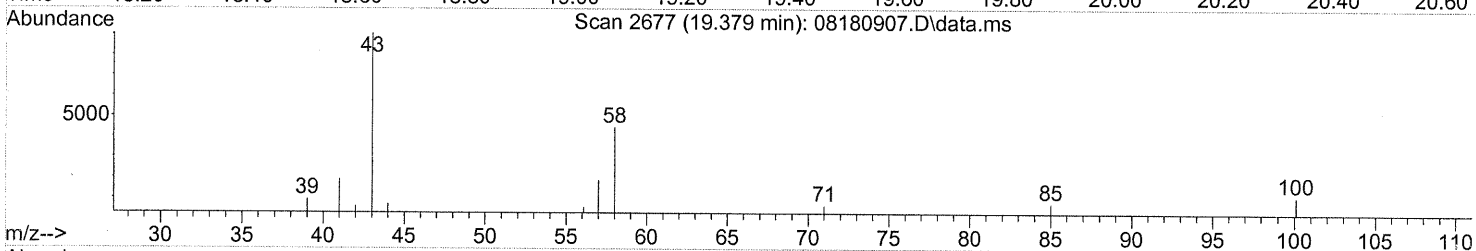
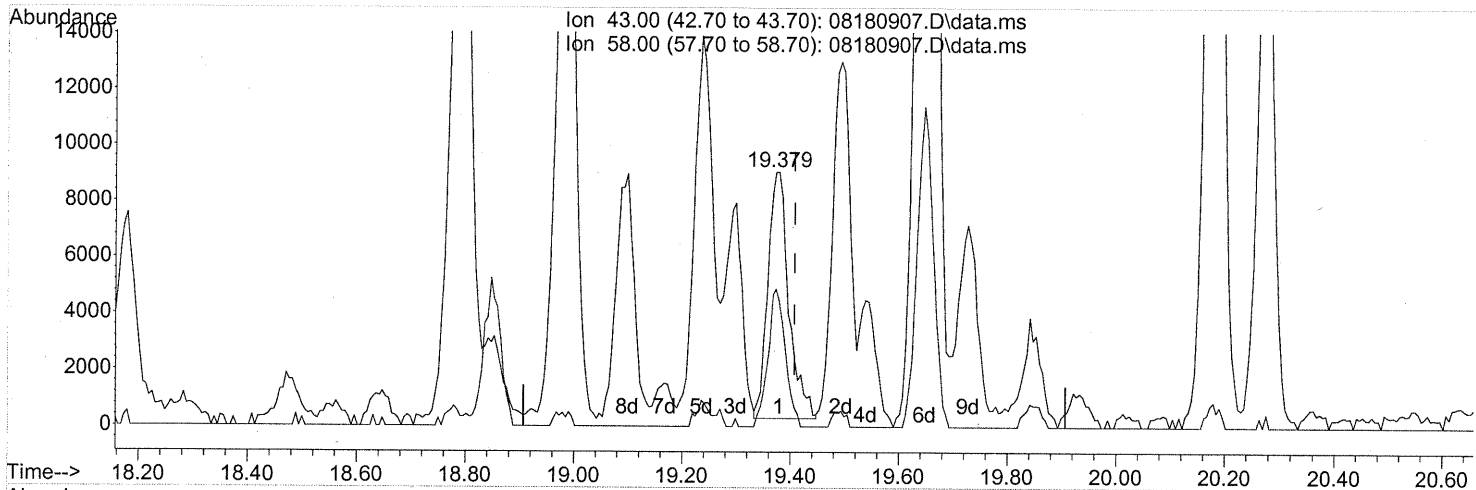
(58) Toluene (T)
 18.985min (-0.017) 9.03ng
 response 440701

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	60.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



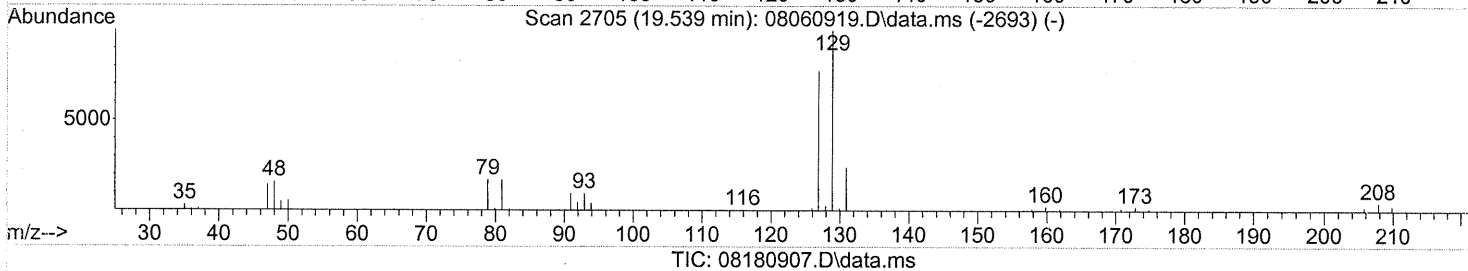
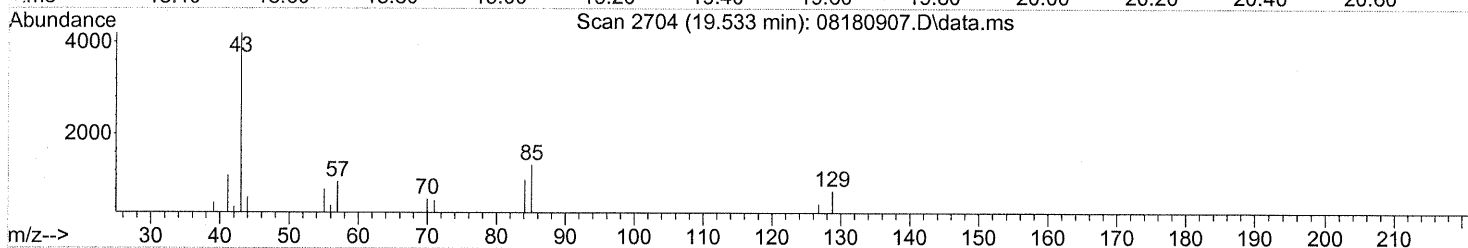
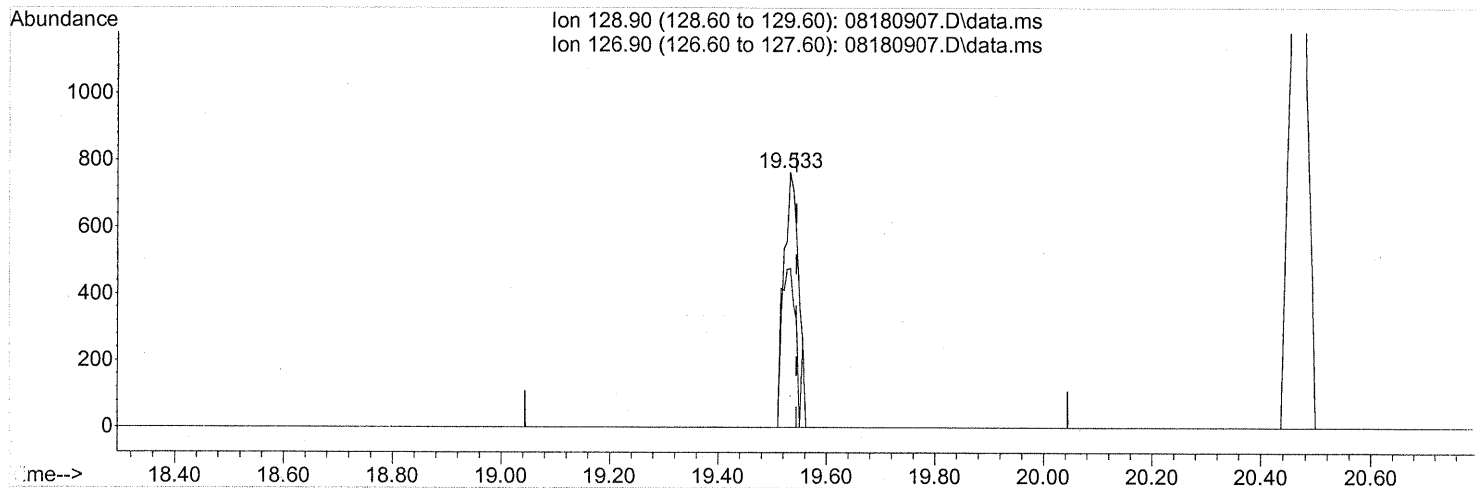
(59) 2-Hexanone (T)
 19.379min (-0.029) 0.72ng
 response 23529

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	46.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.533min (-0.011) 0.12ng

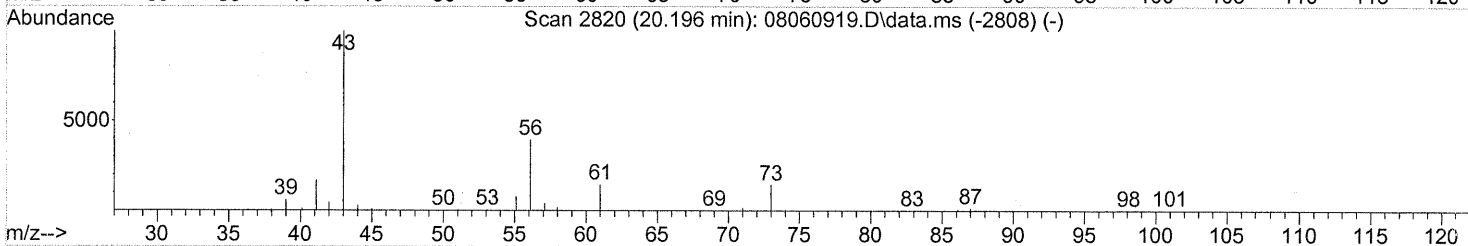
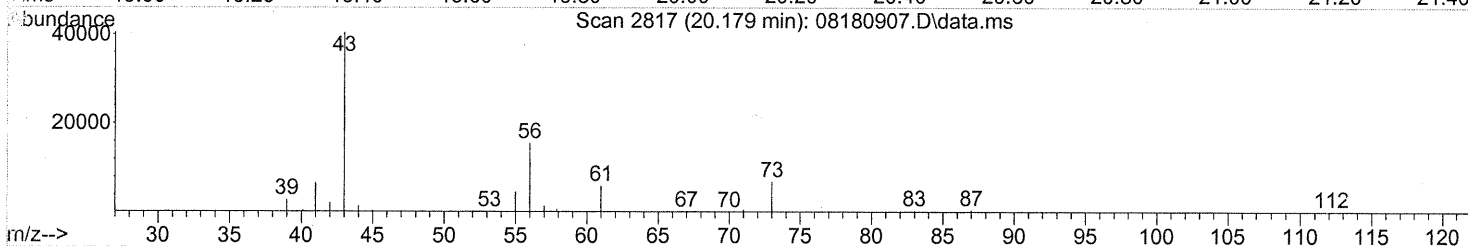
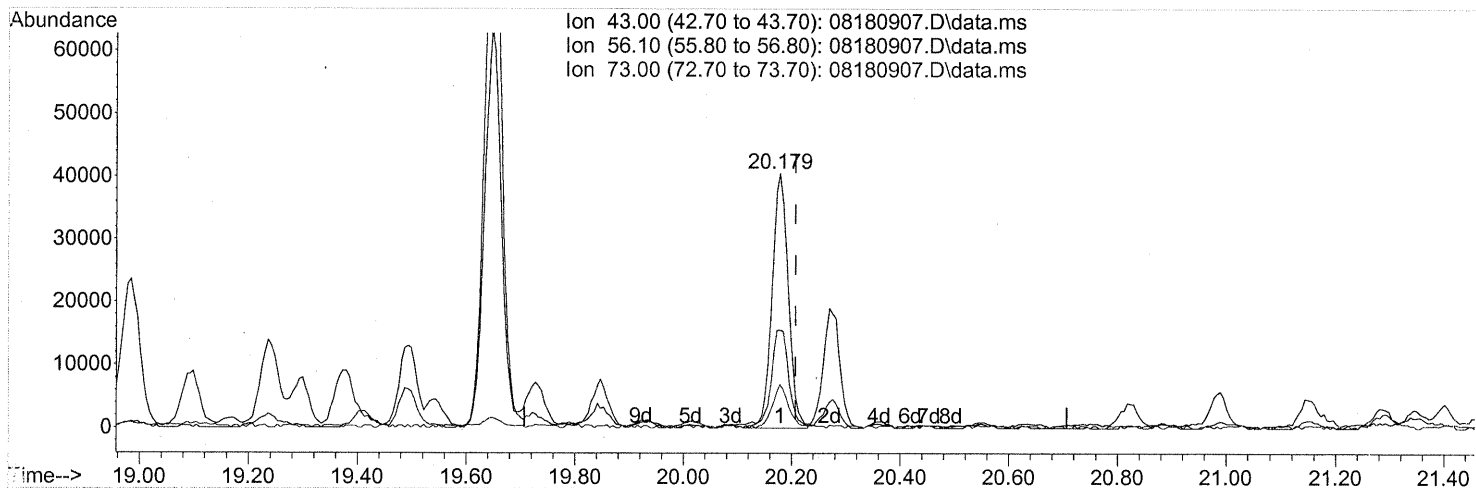
response 1403

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	66.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(62) n-Butyl Acetate (T)

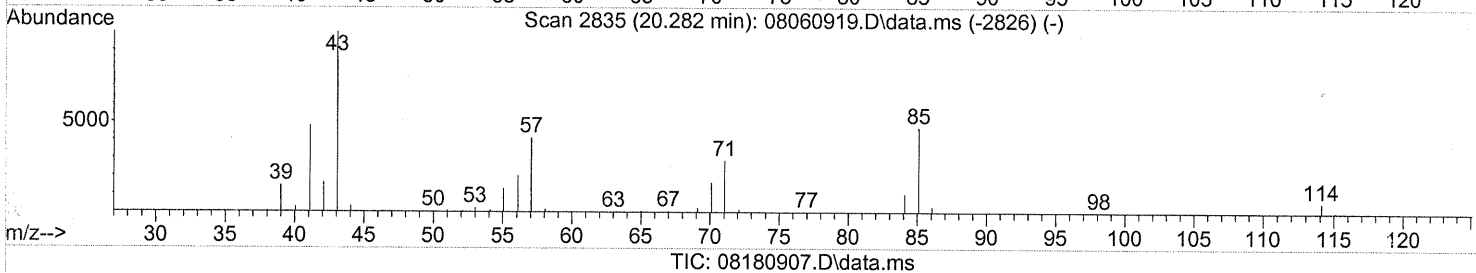
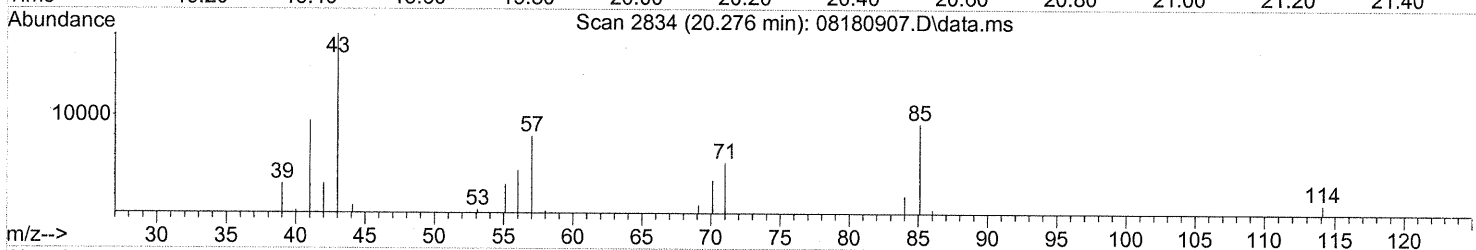
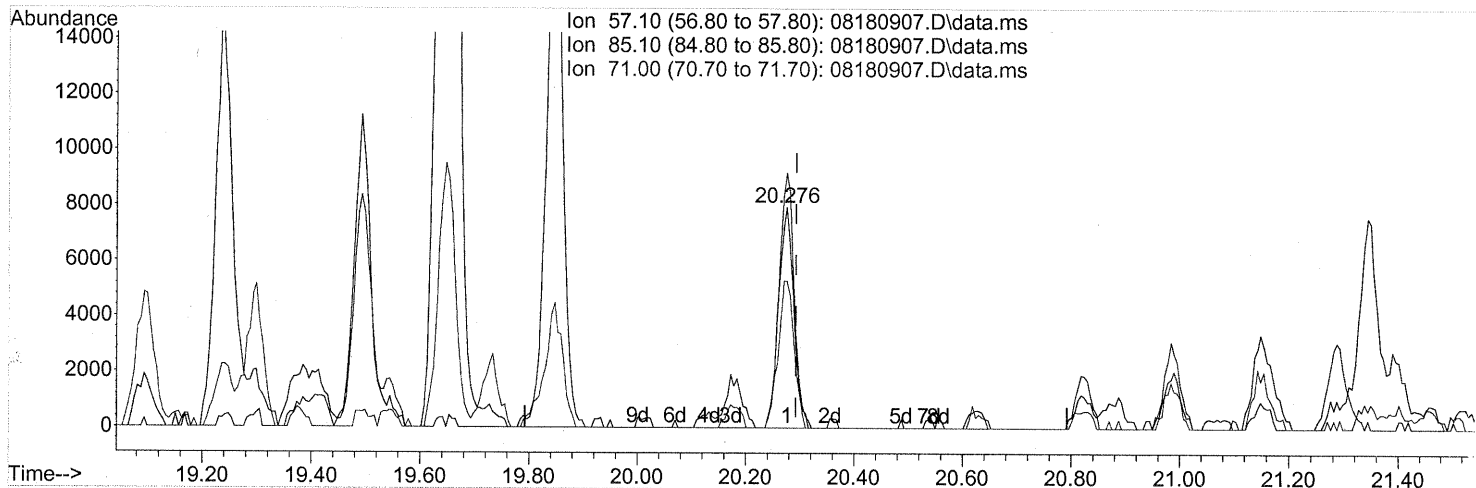
20.179min (-0.029) 2.21ng
 response 84681

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.10
73.00	14.80	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



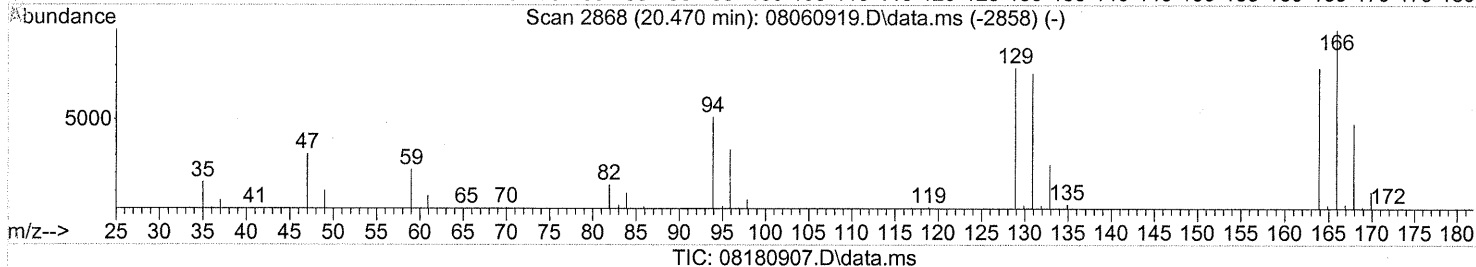
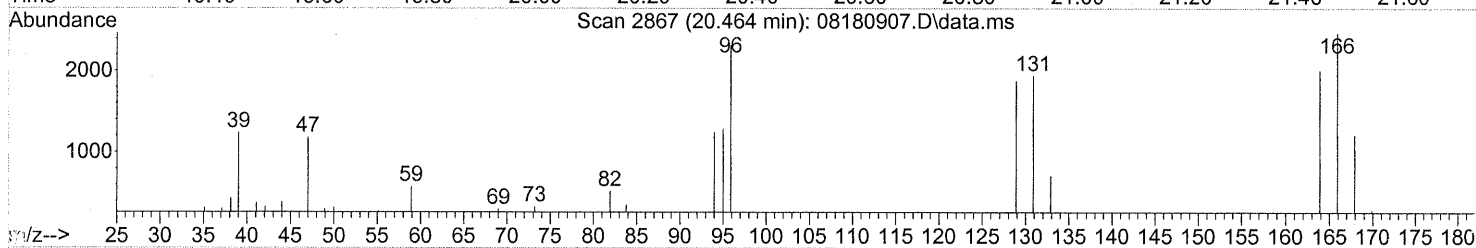
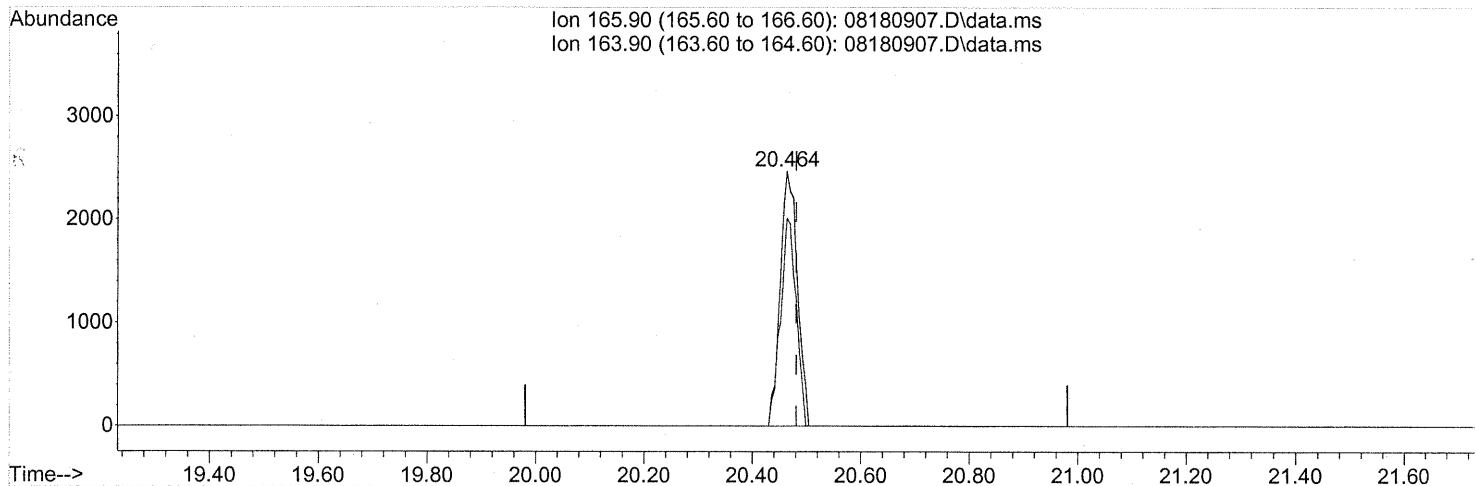
(63) n-Octane (T)
 20.276min (-0.017) 1.32ng
 response 15578

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	114.19
71.00	68.10	69.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.464min (-0.017) 0.48ng

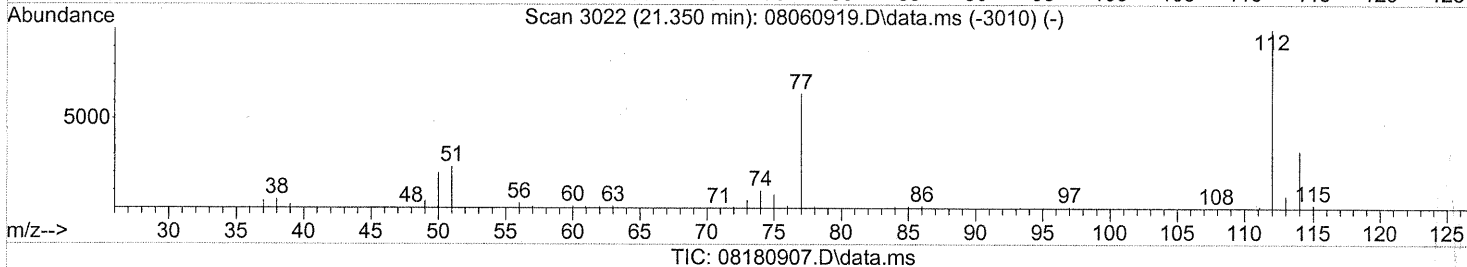
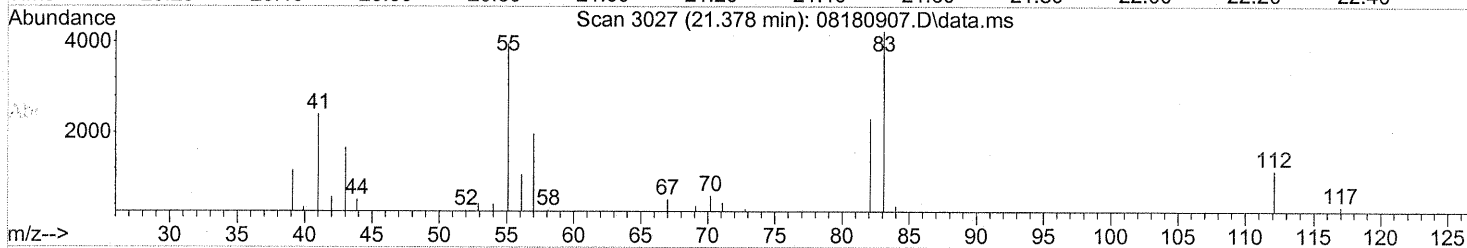
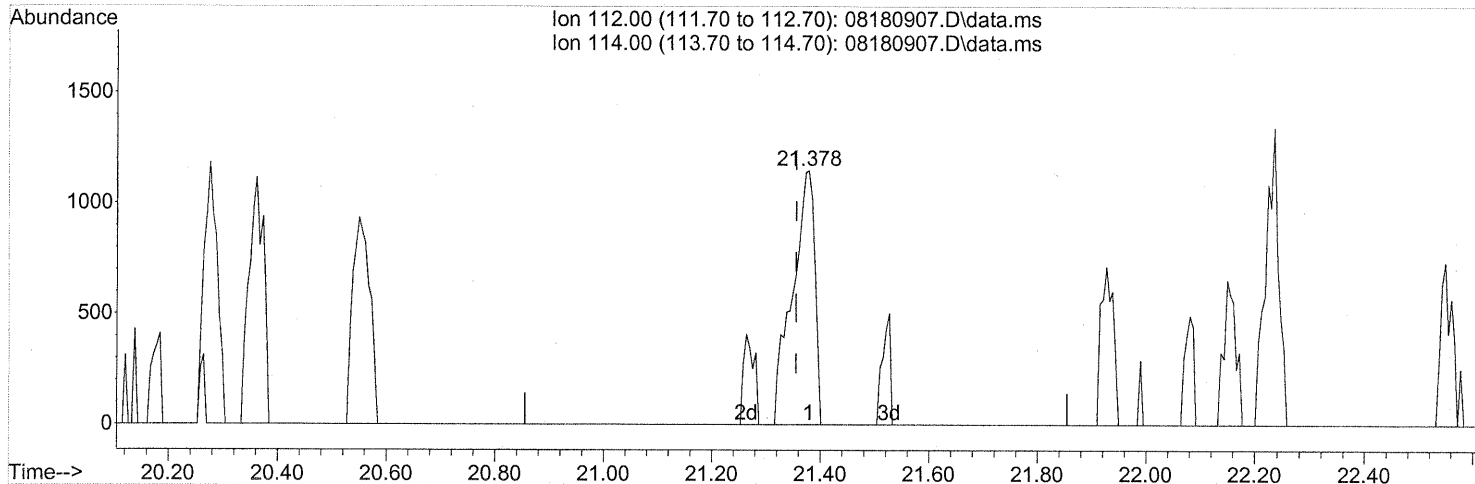
response 5440

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	74.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 16:25:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.378min (+0.023) 0.11ng
 response 3256

Ion	Exp%	Act%
112.00	100	100
114.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

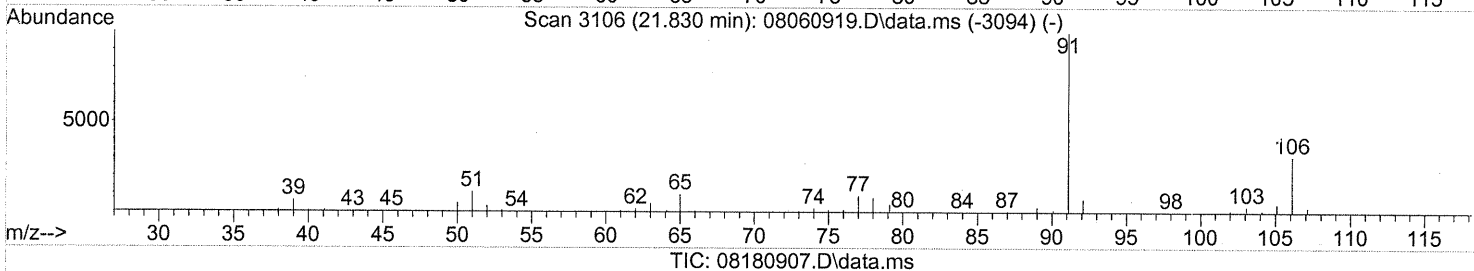
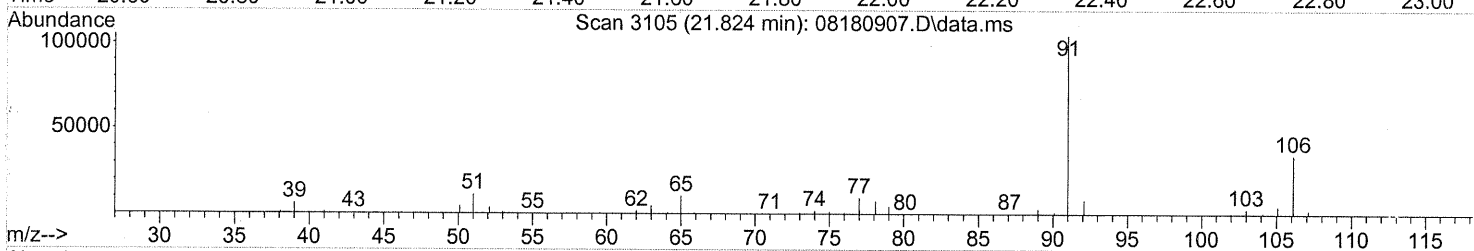
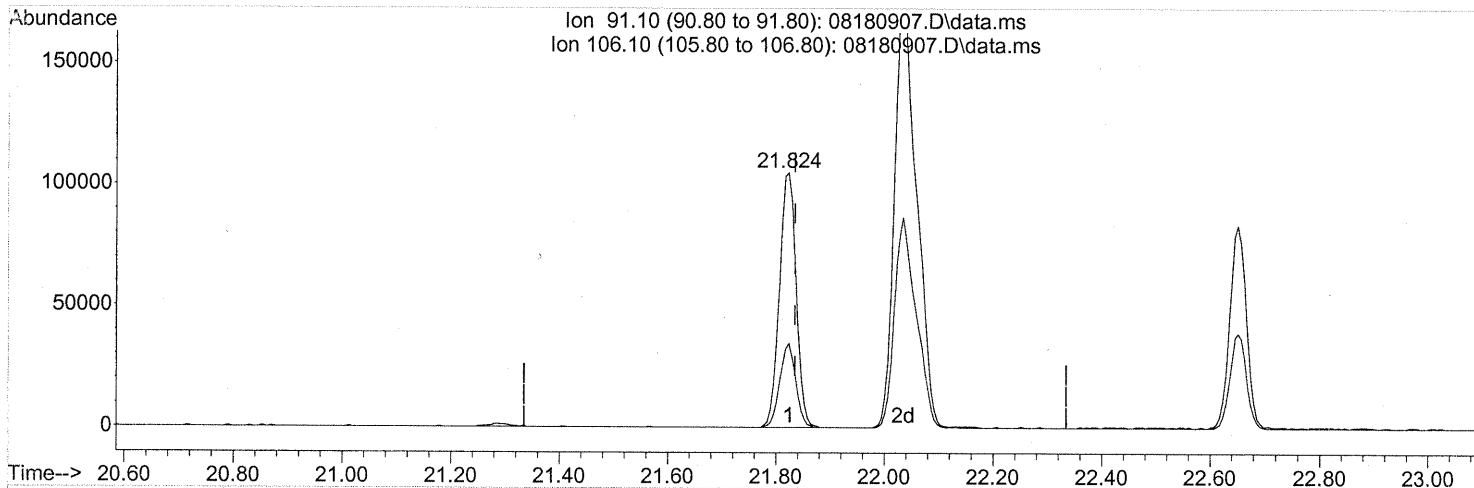
TP

DA 8/24/09
 em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



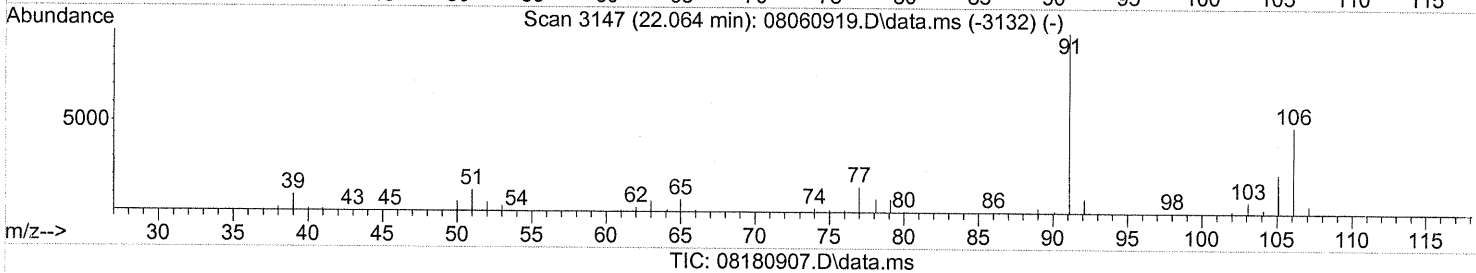
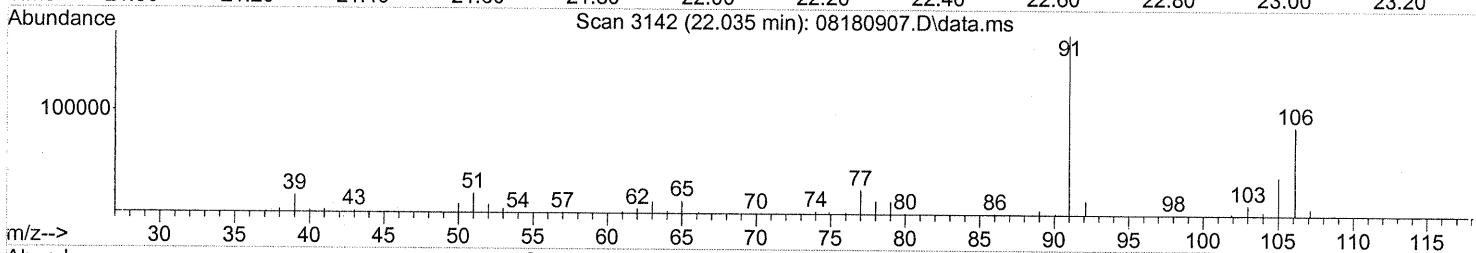
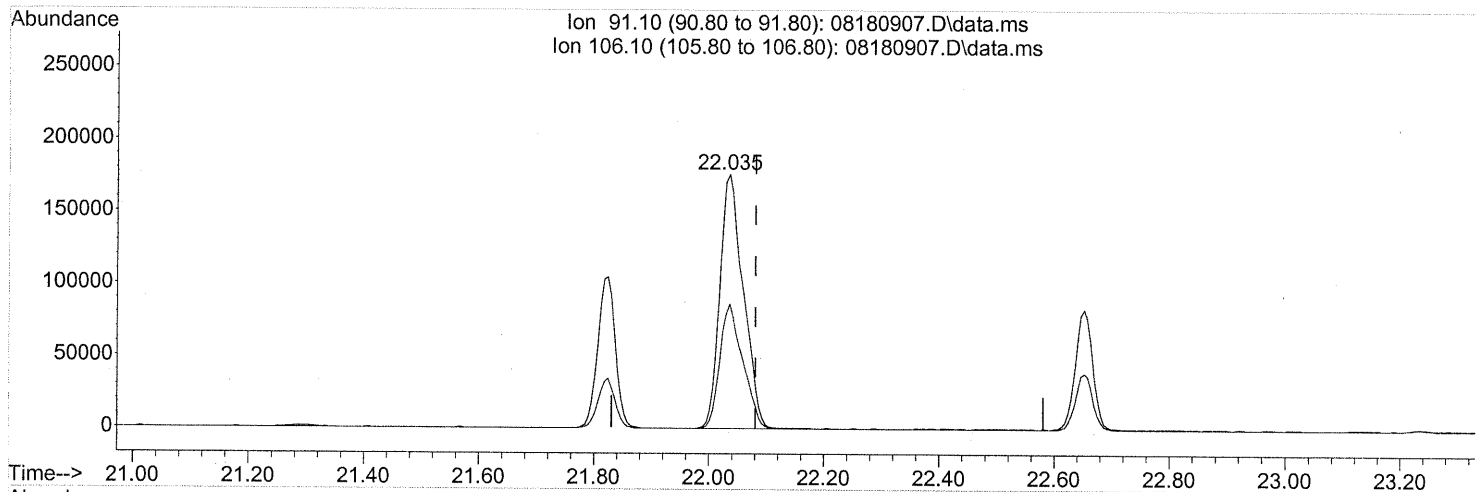
(66) Ethylbenzene (T)
 21.824min (-0.011) 4.01ng
 response 223900

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	31.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

22.035min (-0.046) 11.04ng

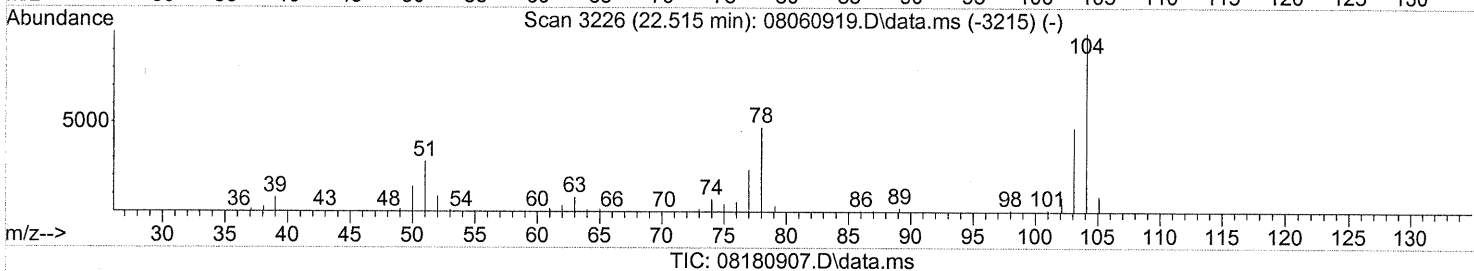
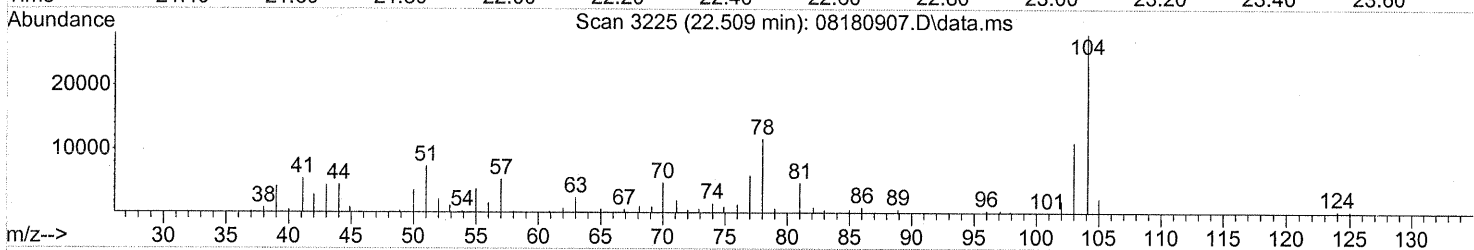
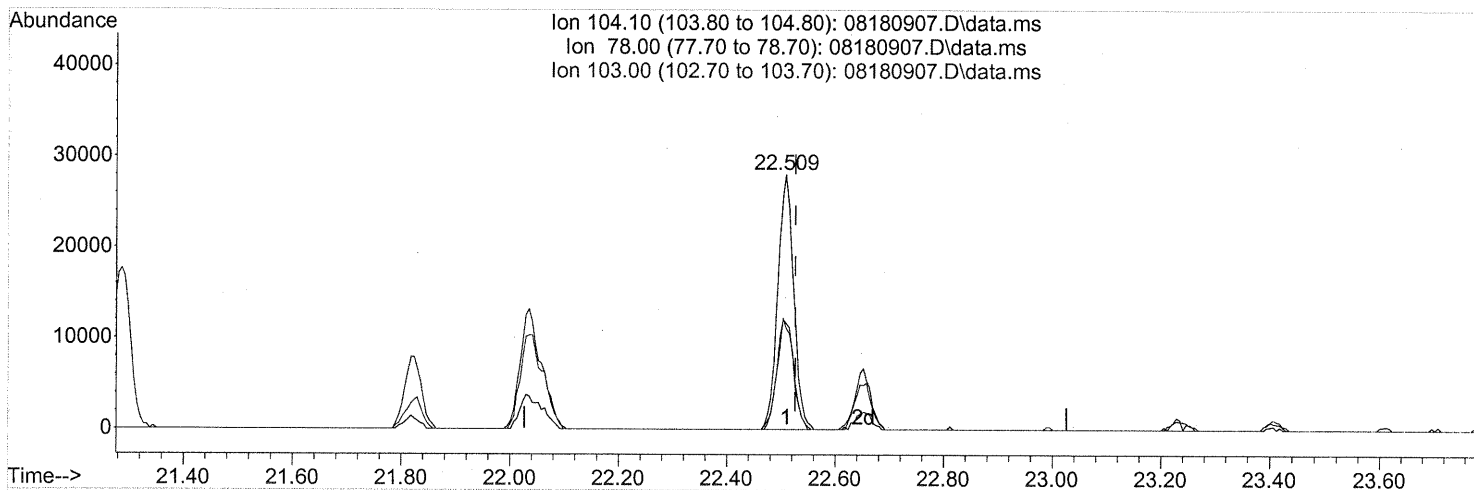
response 498455

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



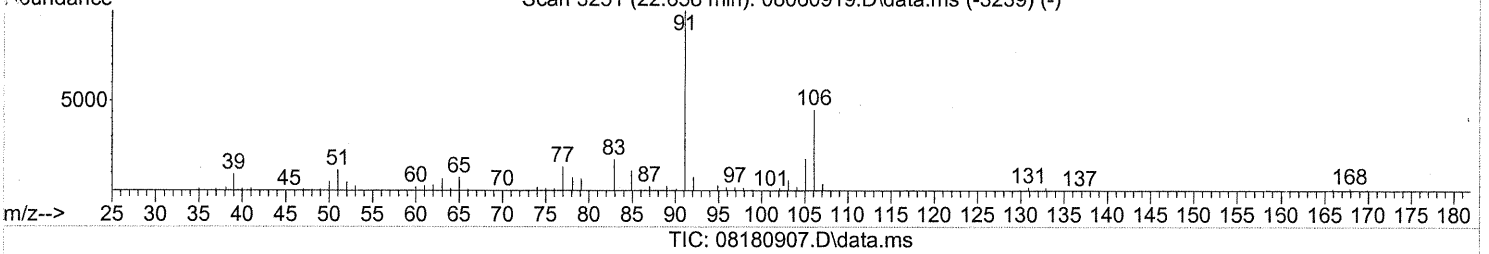
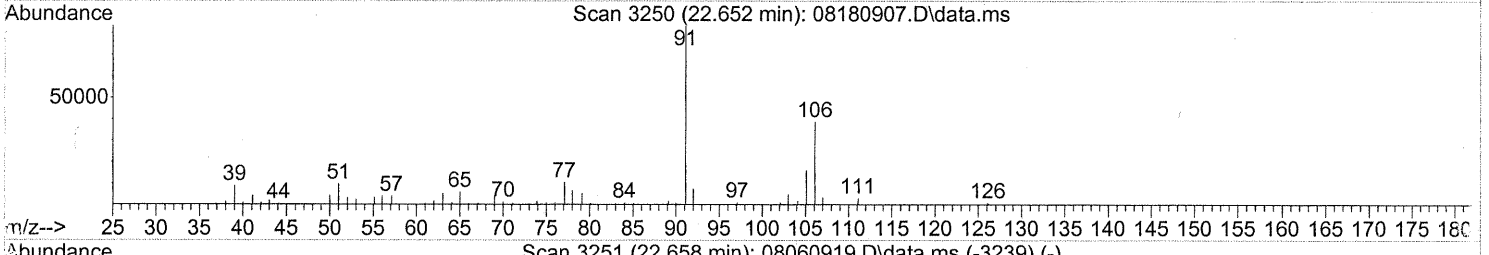
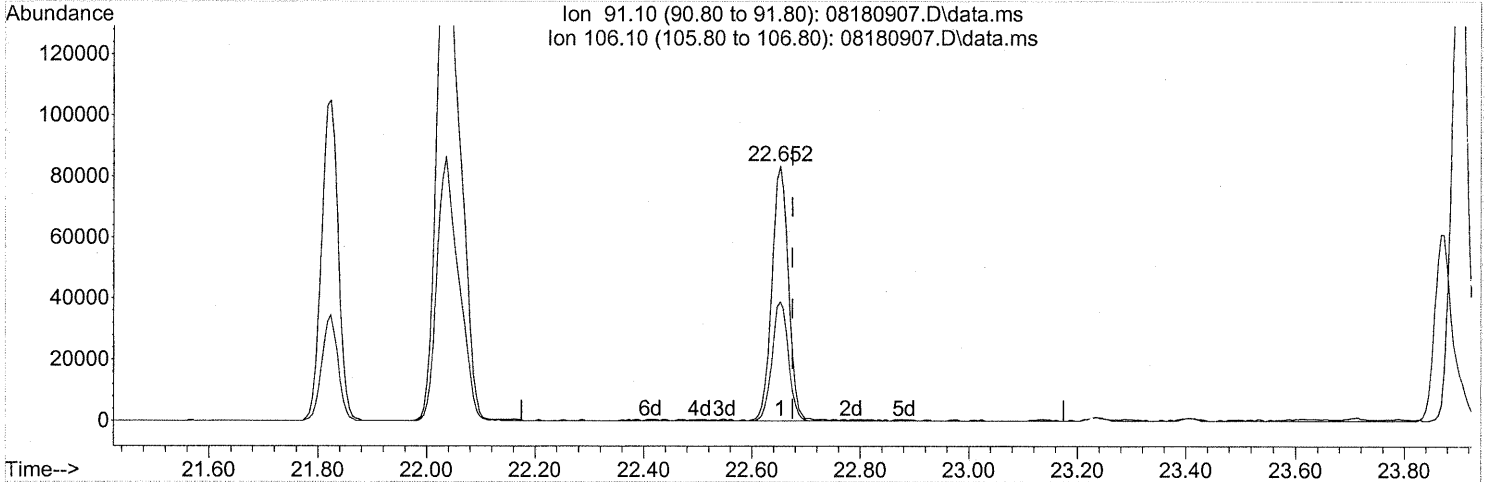
(69) Styrene (T)
 22.509min (-0.017) 1.75ng
 response 56990

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	45.07
103.00	46.20	44.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 3.92ng

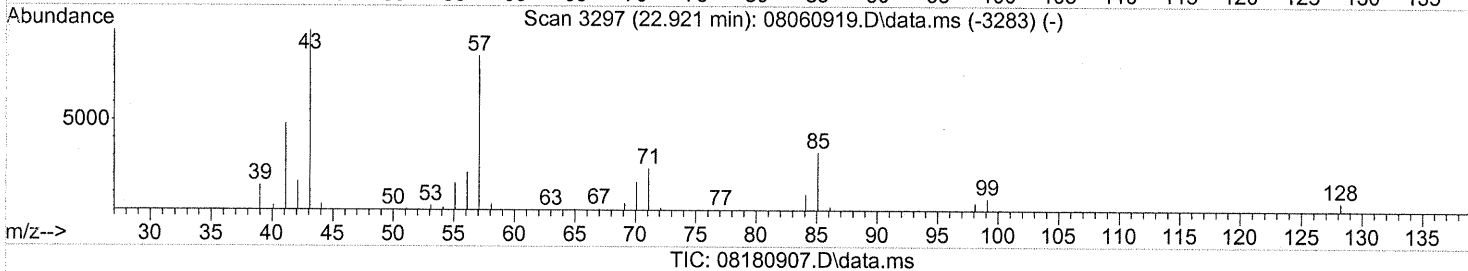
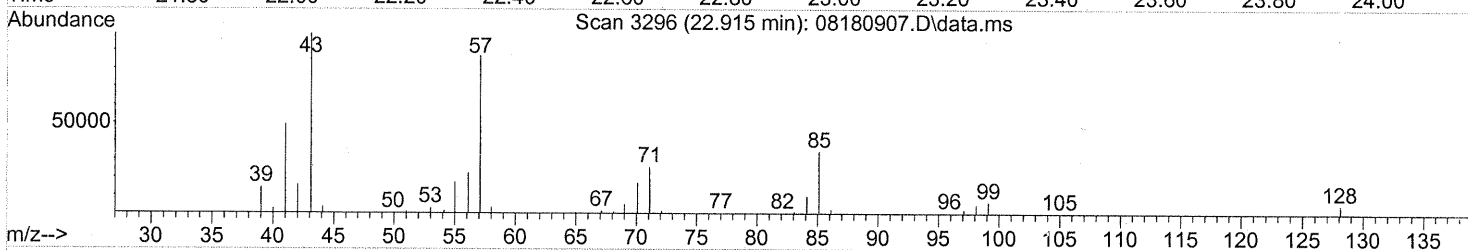
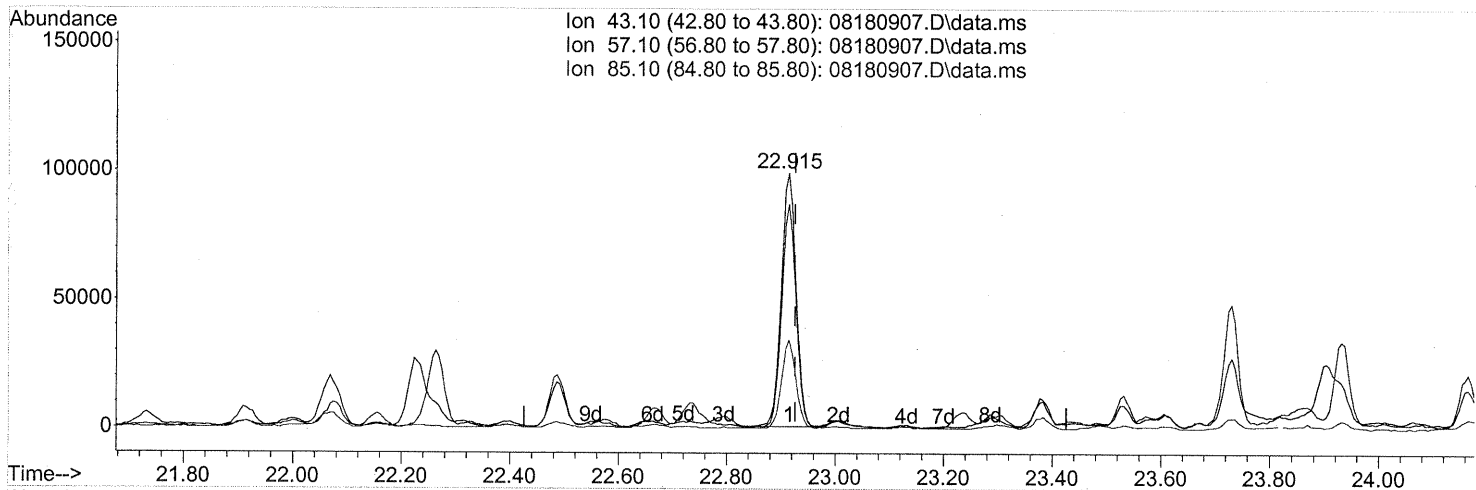
response 177450

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(71) n-Nonane (T)

22.915min (-0.011) 6.21ng

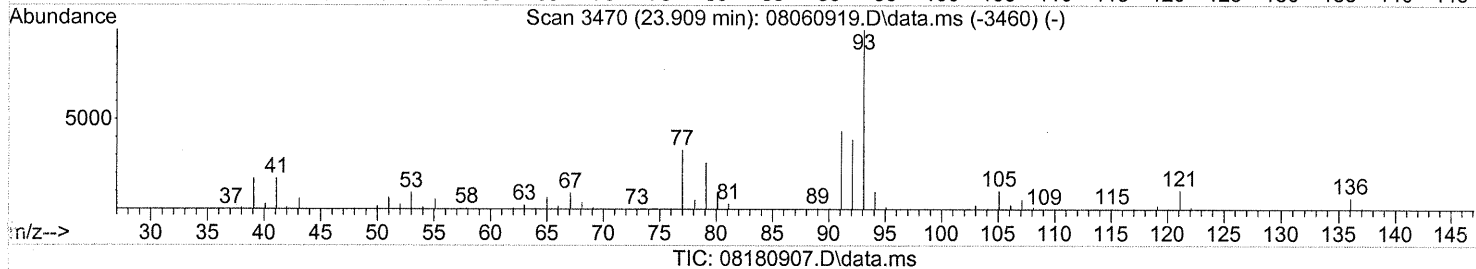
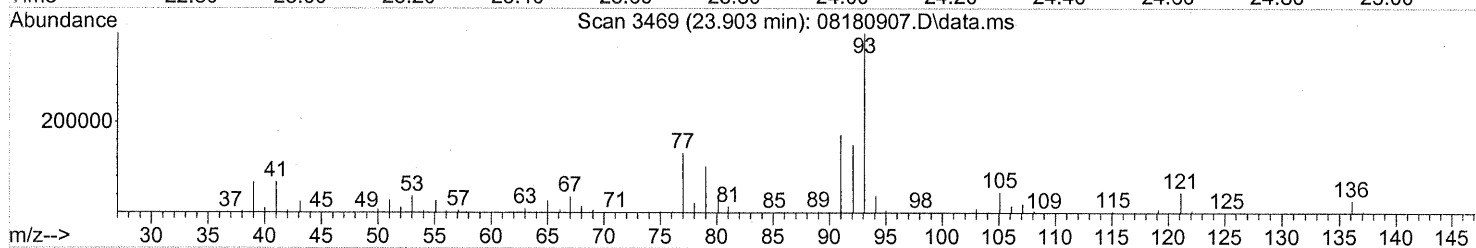
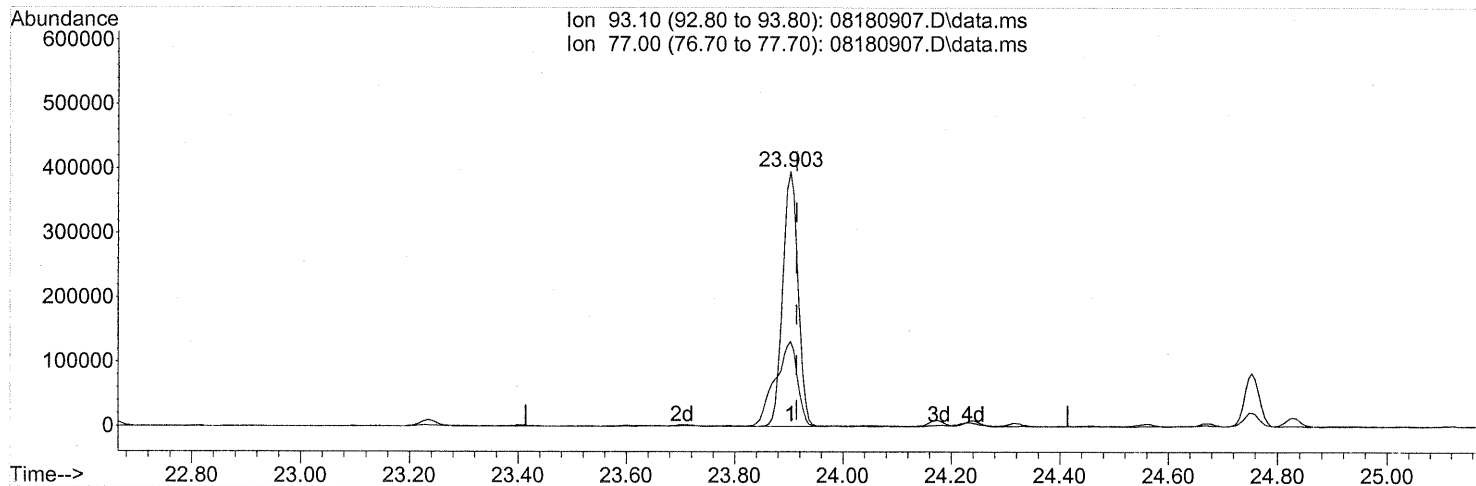
response 186896

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	87.55
85.10	30.40	33.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



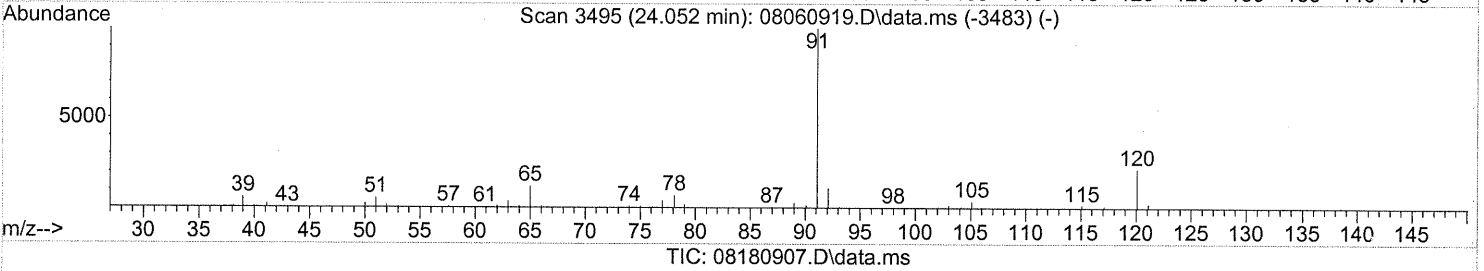
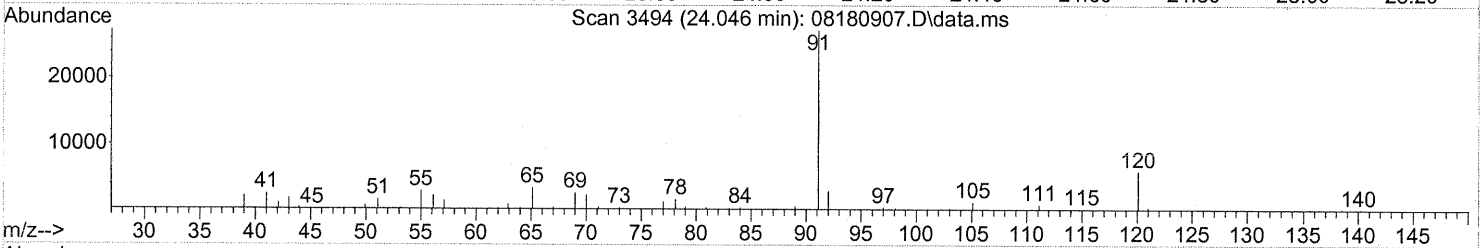
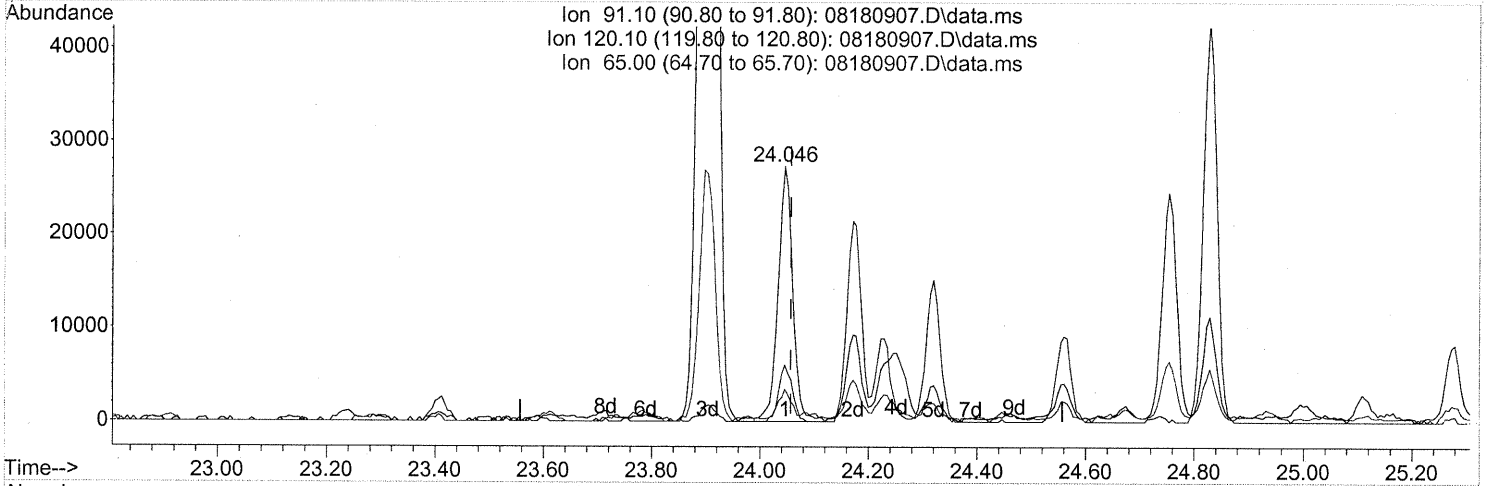
(75) alpha-Pinene (T)
 23.903min (-0.011) 26.52ng
 response 777153

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	48.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



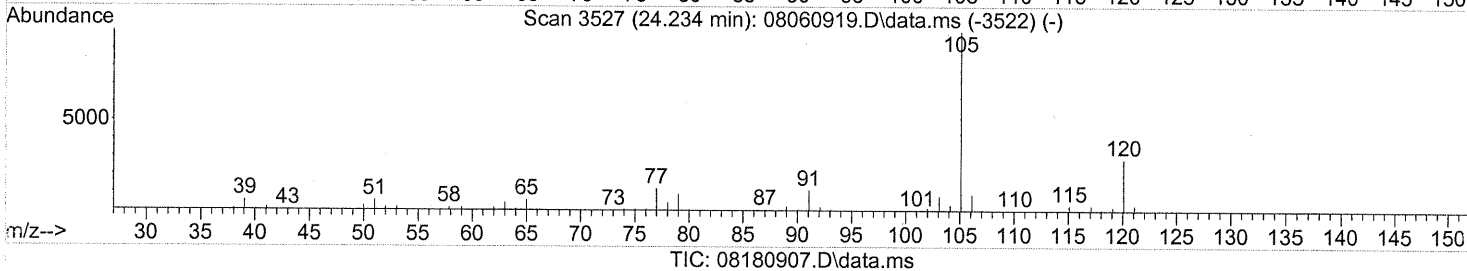
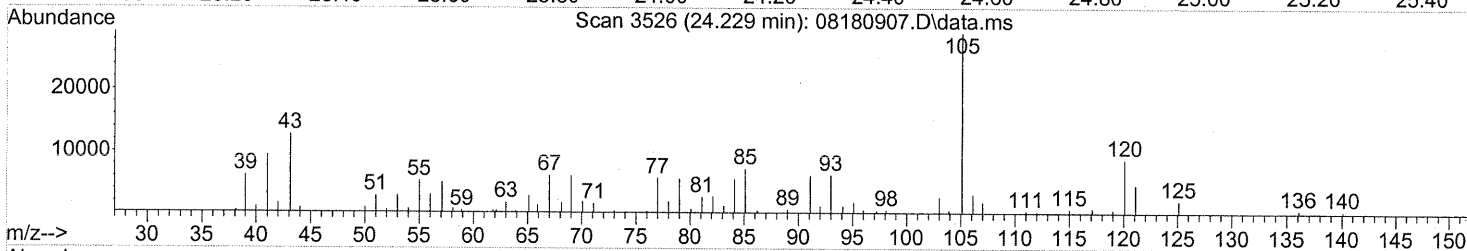
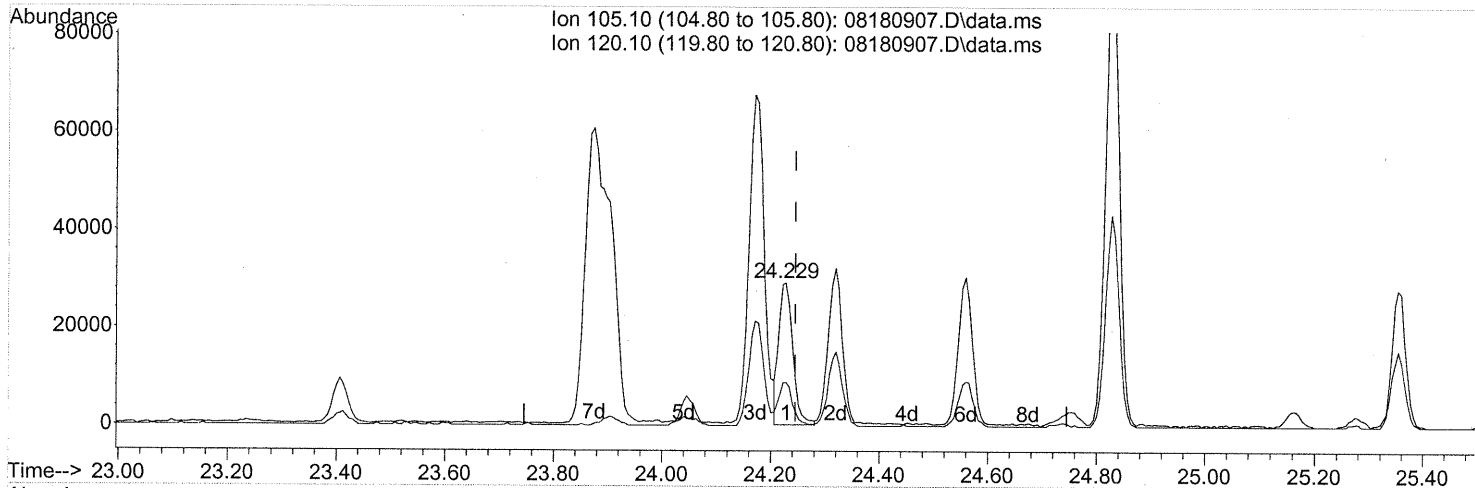
(76) n-Propylbenzene (T)
 24.046min (-0.011) 0.72ng
 response 51522

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	20.52
65.00	12.00	11.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



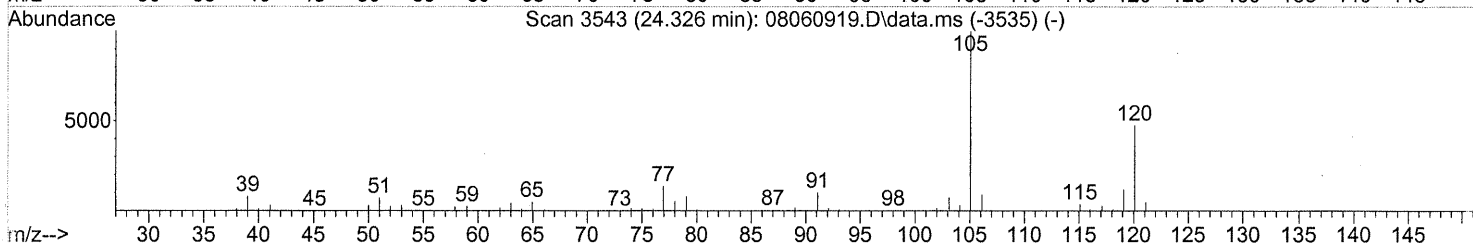
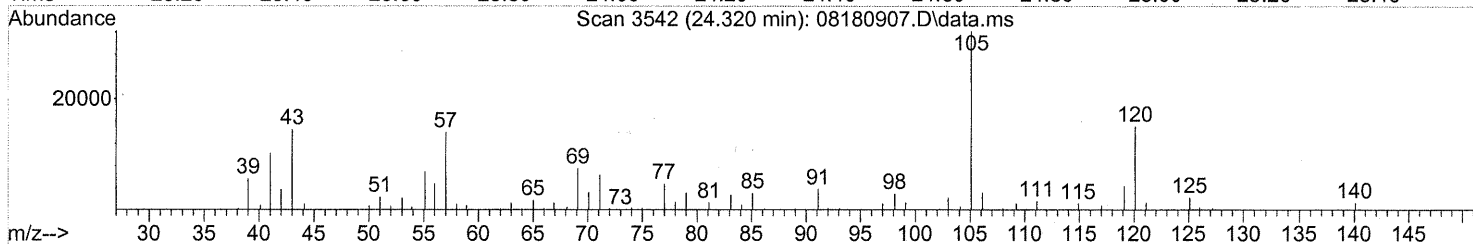
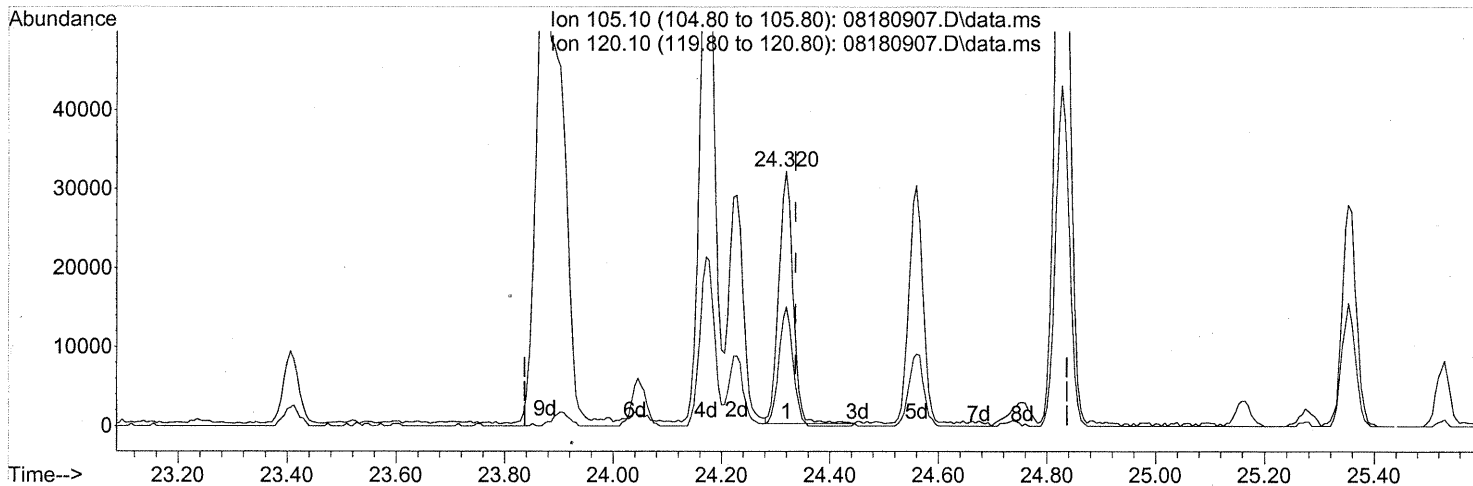
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 1.00ng
 response 52997

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	30.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180907.D\data.ms

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

24.320min (-0.017) 1.31ng

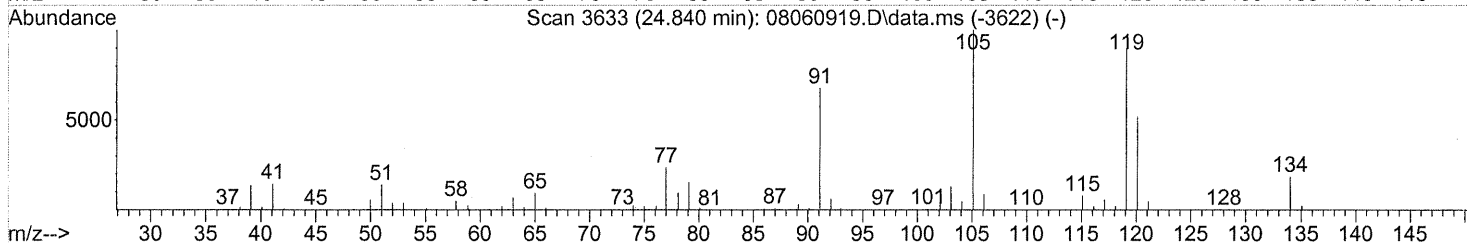
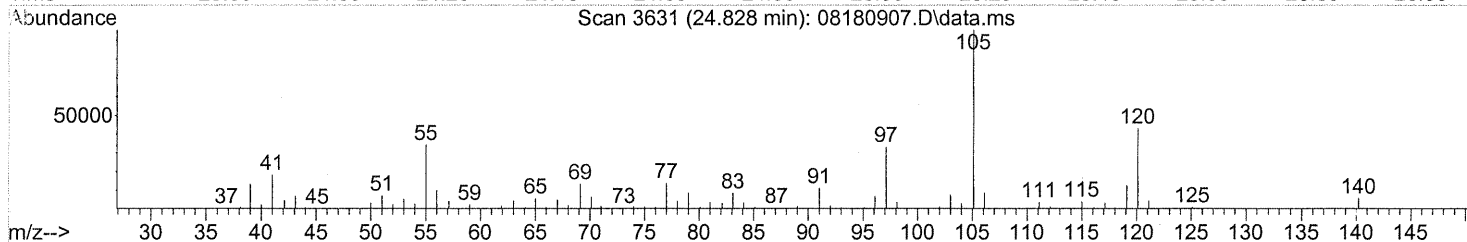
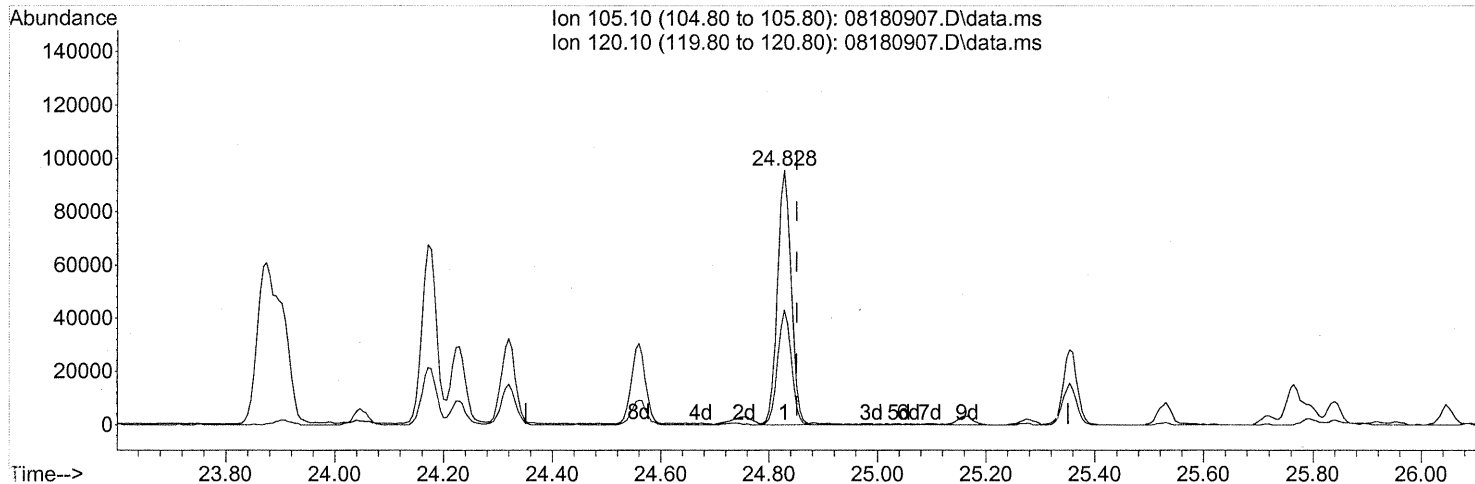
response 58497

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	46.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

24.828min (-0.023) 3.72ng

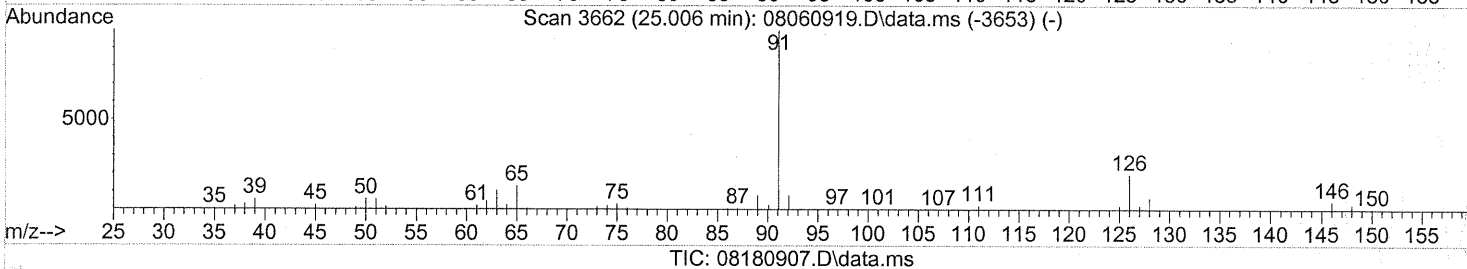
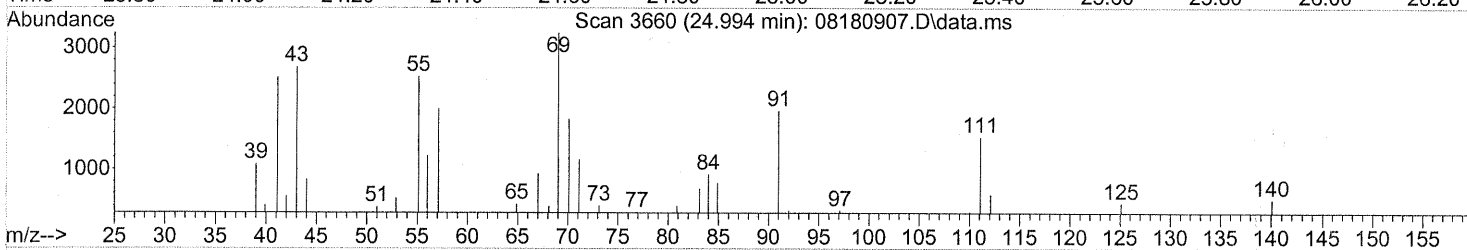
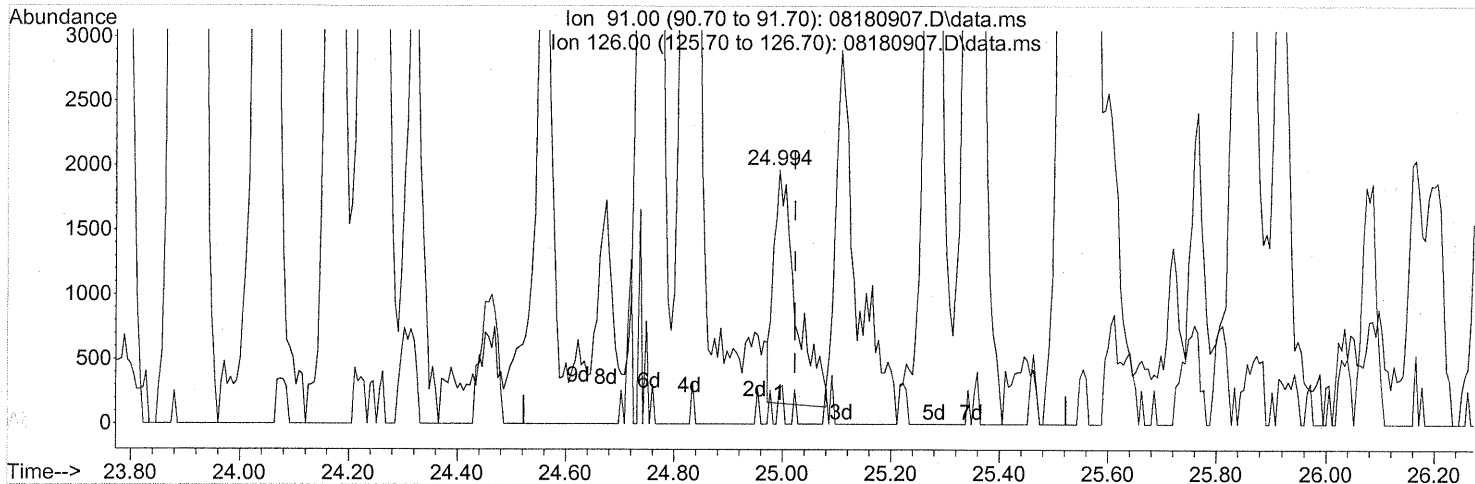
response 169251

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 16:25:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(84) Benzyl Chloride (T)
 24.994min (-0.029) 0.12ng
 response 5195

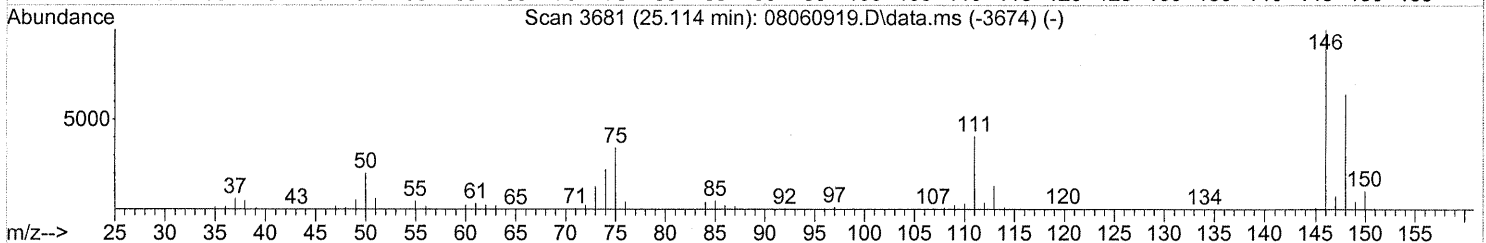
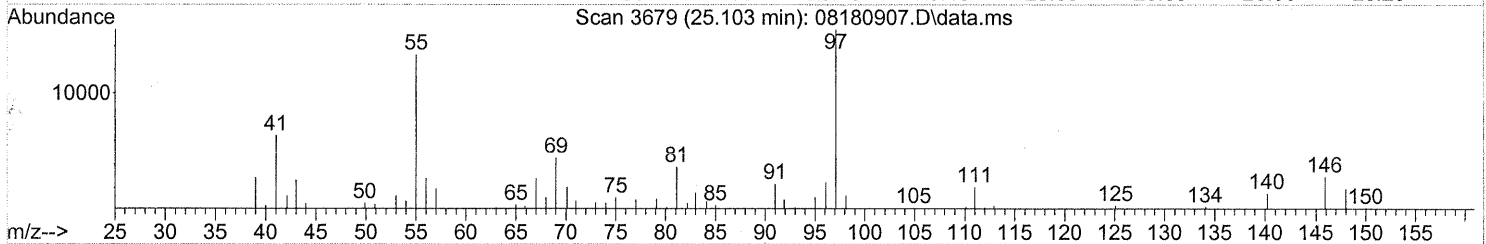
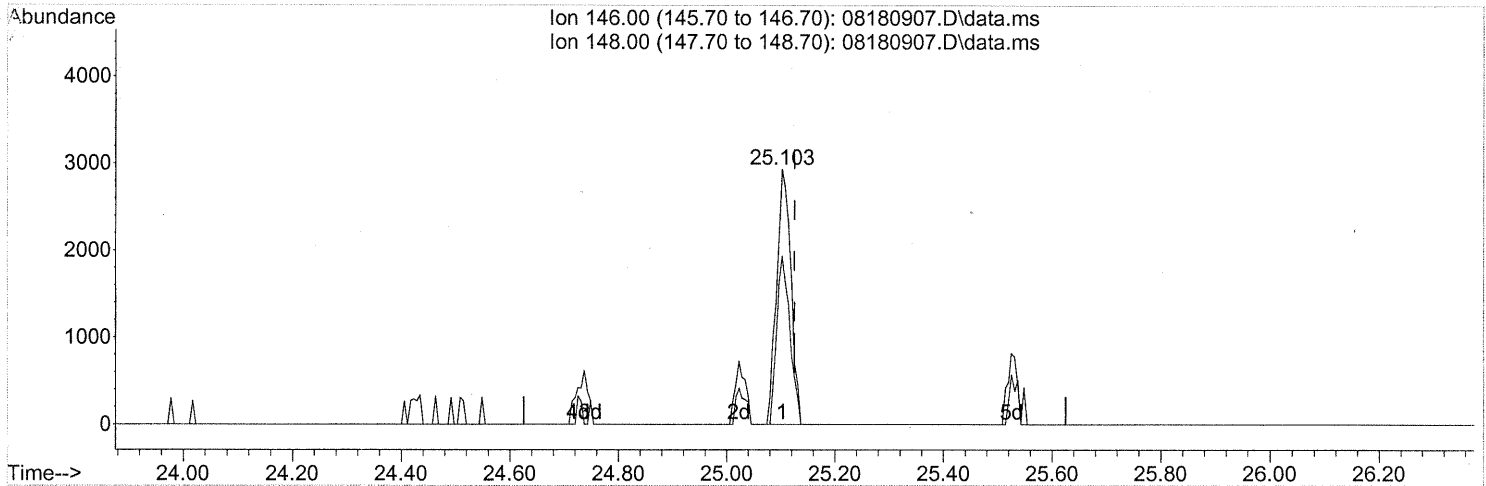
Ion	Exp%	Act%
91.00	100	100
126.00	19.50	3.85
0.00	0.00	0.00
0.00	0.00	0.00

TP
RA 8/24/09
Cem 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.22ng

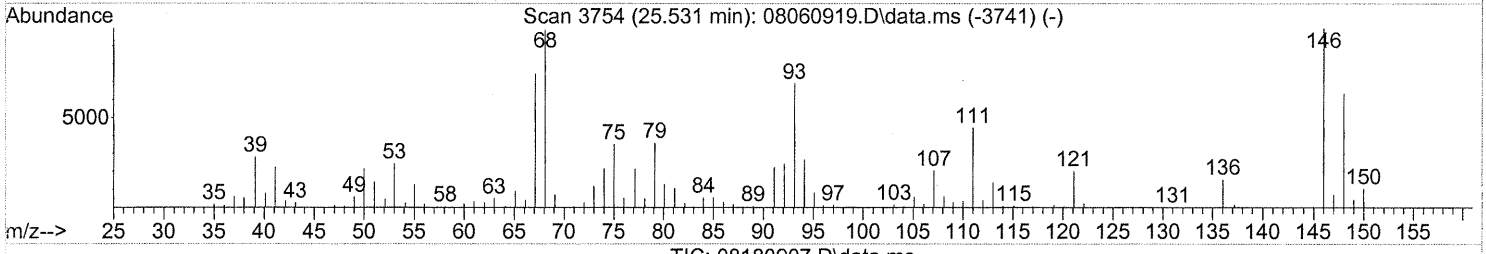
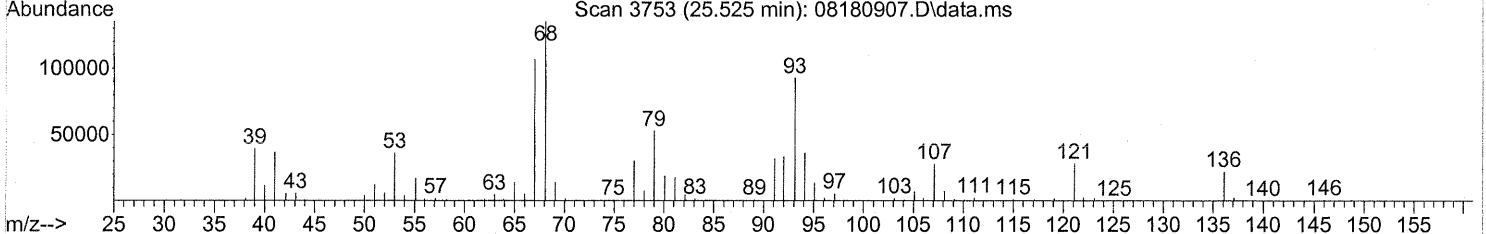
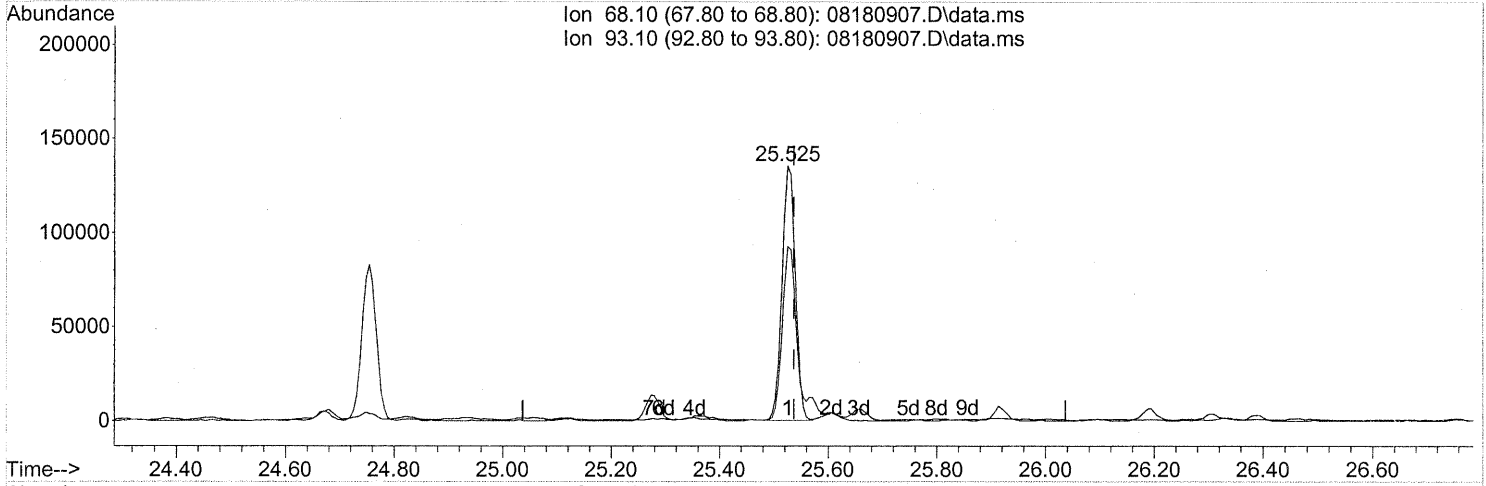
response 5329

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	60.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180907.D\data.ms

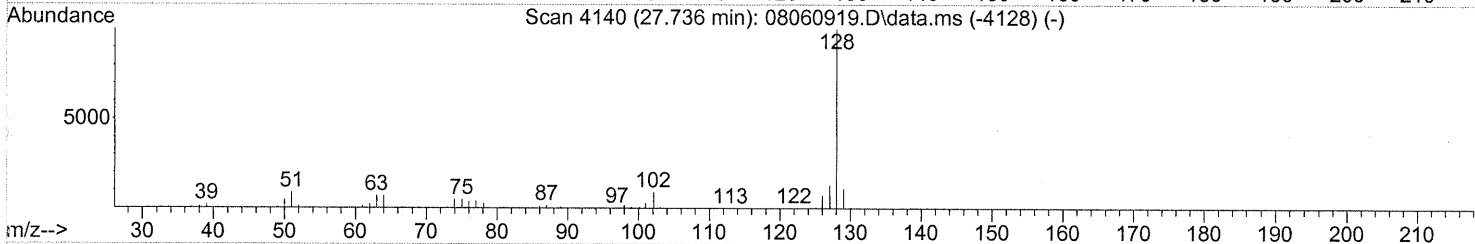
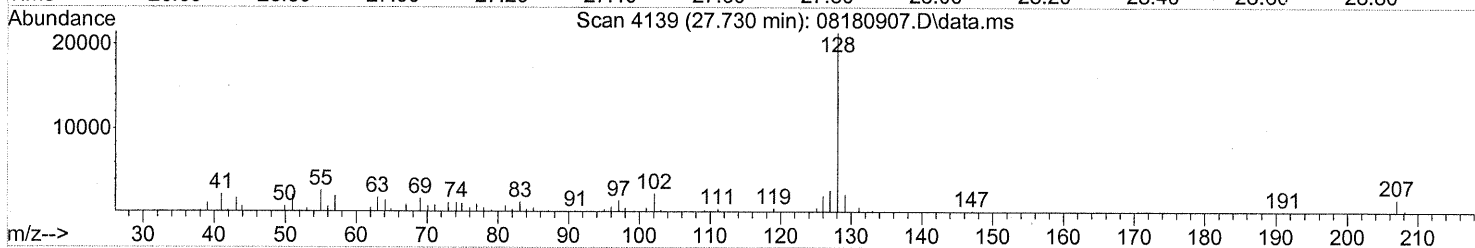
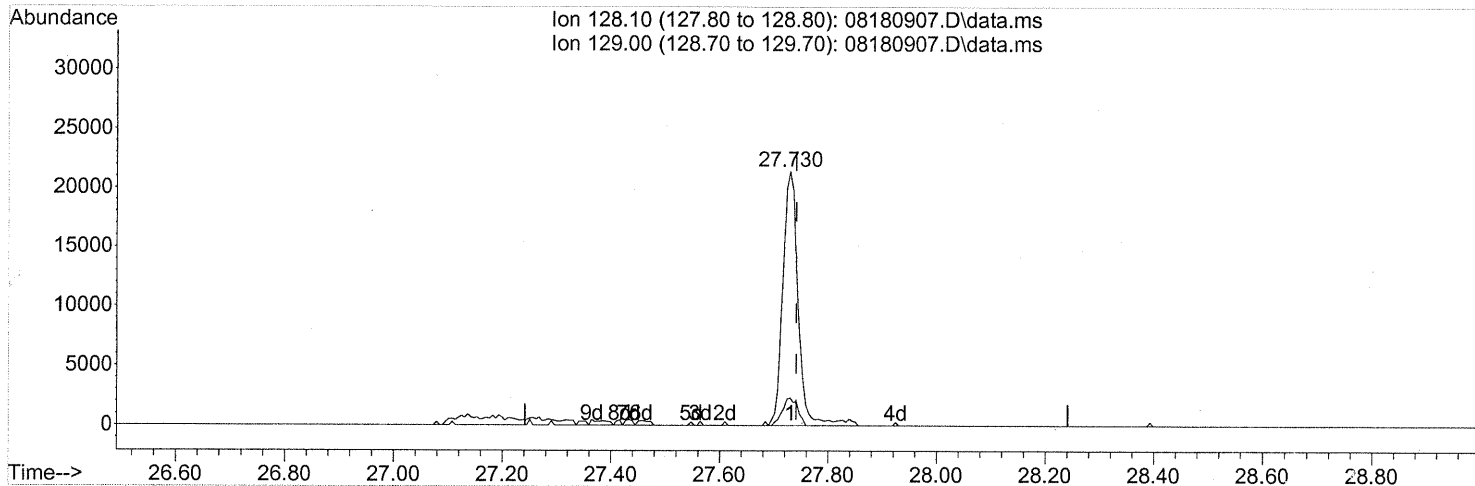
(91) d-Limonene (T)
 25.525min (-0.011) 11.89ng
 response 230185

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	81.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180907.D
 Acq On : 18 Aug 2009 18:43
 Operator : WA
 Sample : P0902766-001 (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:07:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180907.D\data.ms

(95) Naphthalene (T)
 27.730min (-0.011) 0.68ng
 response 42285

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.61
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: 101161
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00989

CAS Project ID: P0902766
CAS Sample ID: P0902766-002

Date Collected: 8/11/09
Date Received: 8/12/09
Date Analyzed: 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	0.74	0.65	0.43	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.65	ND	0.13	
74-87-3	Chloromethane	0.22	0.13	0.11	0.062	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	ND	0.092	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.050	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.058	
74-83-9	Bromomethane	ND	0.13	ND	0.033	
75-00-3	Chloroethane	ND	0.13	ND	0.049	
64-17-5	Ethanol	41	6.5	22	3.4	
75-05-8	Acetonitrile	11	0.65	6.5	0.38	
107-02-8	Acrolein	ND	0.65	ND	0.28	
67-64-1	Acetone	ND	6.5	ND	2.7	
75-69-4	Trichlorofluoromethane	ND	0.13	ND	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	0.65	0.55	0.26	
107-13-1	Acrylonitrile	ND	0.65	ND	0.30	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.033	
75-09-2	Methylene Chloride	ND	0.65	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.041	
76-13-1	Trichlorotrifluoroethane	ND	0.13	ND	0.017	
75-15-0	Carbon Disulfide	ND	0.65	ND	0.21	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.033	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.032	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.036	
108-05-4	Vinyl Acetate	ND	6.5	ND	1.8	
78-93-3	2-Butanone (MEK)	ND	0.65	ND	0.22	

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

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

Verified By: _____

Date: _____

8/25/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101161

Client Project ID: 16512

CAS Project ID: P0902766

CAS Sample ID: P0902766-002

Test Code: EPA TO-15

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

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00989

Date Collected: 8/11/09

Date Received: 8/12/09

Date Analyzed: 8/18/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.033	
141-78-6	Ethyl Acetate	ND	0.65	ND	0.18	
110-54-3	n-Hexane	ND	0.65	ND	0.18	
67-66-3	Chloroform	ND	0.13	ND	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.65	ND	0.22	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.032	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.024	
71-43-2	Benzene	0.23	0.13	0.072	0.040	
56-23-5	Carbon Tetrachloride	ND	0.13	ND	0.021	
110-82-7	Cyclohexane	ND	0.65	ND	0.19	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.028	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.024	
123-91-1	1,4-Dioxane	ND	0.65	ND	0.18	
80-62-6	Methyl Methacrylate	ND	0.65	ND	0.16	
142-82-5	n-Heptane	ND	0.65	ND	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.65	ND	0.16	
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.024	
108-88-3	Toluene	1.1	0.65	0.30	0.17	
591-78-6	2-Hexanone	ND	0.65	ND	0.16	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	ND	0.65	ND	0.14	

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

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

Verified By: _____

Date: 8/25/09

TO15scan.xls - 75 Compounds - PageNo.:

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101161
Client Project ID: 16512

CAS Project ID: P0902766
 CAS Sample ID: P0902766-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00989

Date Collected: 8/11/09
Date Received: 8/12/09
Date Analyzed: 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.6 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.29

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.65	ND	0.14	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.028	
100-41-4	Ethylbenzene	ND	0.65	ND	0.15	
179601-23-1	m,p-Xylenes	1.4	0.65	0.32	0.15	
75-25-2	Bromoform	ND	0.65	ND	0.062	
100-42-5	Styrene	ND	0.65	ND	0.15	
95-47-6	o-Xylene	ND	0.65	ND	0.15	
111-84-2	n-Nonane	0.81	0.65	0.15	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	ND	0.65	ND	0.13	
80-56-8	alpha-Pinene	3.3	0.65	0.60	0.12	
103-65-1	n-Propylbenzene	ND	0.65	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.65	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.65	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.65	ND	0.13	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.025	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.13	ND	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	1.4	0.65	0.25	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.65	ND	0.067	
120-82-1	1,2,4-Trichlorobenzene	ND	0.65	ND	0.087	
91-20-3	Naphthalene	ND	0.65	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.65	ND	0.060	

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

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

Verified By: _____

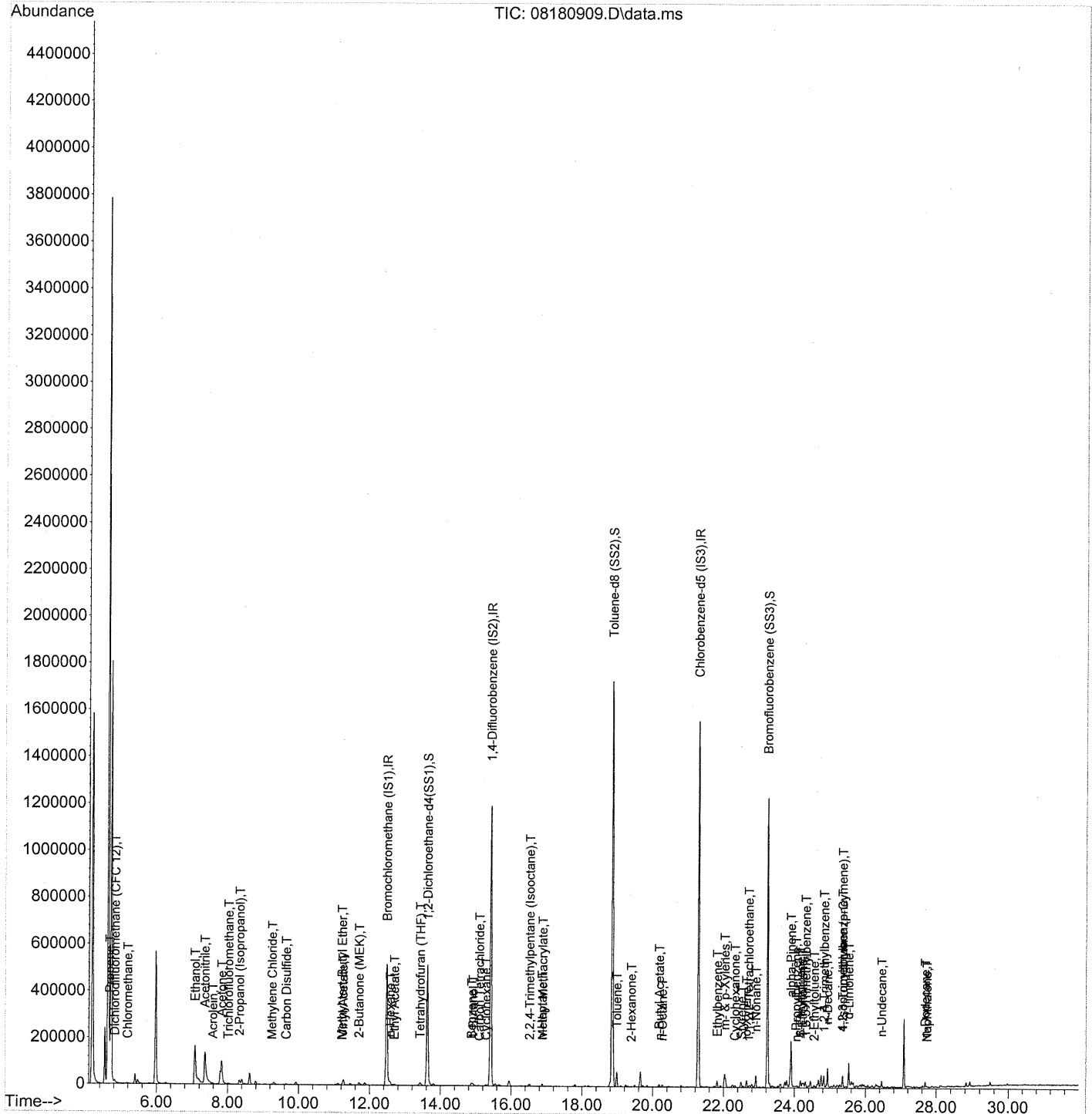


Date: _____

8/25/09

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 16:36:28 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161 ✓
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 16:36:28 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	267621	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1361699	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	650680	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	541166	23.265	ng	-0.03
Spiked Amount	25.000			Recovery =	93.08%	✓
57) Toluene-d8 (SS2)	18.85	98	1484559	26.111	ng	-0.02
Spiked Amount	25.000			Recovery =	104.44%	✓
73) Bromofluorobenzene (SS3)	23.23	174	388515	25.912	ng	-0.01
Spiked Amount	25.000			Recovery =	103.64%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	10484m	0.571	ng	
3) Dichlorodifluoromethan...	4.83	85	6818	0.227	ng	92
4) Chloromethane	5.19	50	3455	0.171	ng	76
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.	d	
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.08	45	373522	32.087	ng	99
11) Acetonitrile	7.35	41	288758	8.470	ng	99
12) Acrolein	7.58	56	3530	0.398	ng	91
13) Acetone	7.83	58	51756	4.712	ng	# 76
14) Trichlorofluoromethane	8.02	101	2646	0.098	ng	95
15) 2-Propanol (Isopropanol)	8.33	45	45016	1.043	ng	90
16) Acrylonitrile	8.63	53	609	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.39	59	104	N.D.		
19) Methylene Chloride	9.25	84	975	0.066	ng	84
20) 3-Chloro-1-propene (Al...	9.34	41	1124	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.65	76	6971	0.134	ng	78
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.22	73	3441	0.083	ng	# 53
26) Vinyl Acetate	11.24	86	1254	0.561	ng	# 1
27) 2-Butanone (MEK)	11.70	72	4207	0.424	ng	# 71
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.70	61	466	0.090	ng	79
31) n-Hexane	12.58	57	3942	0.149	ng	69

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8/22/09

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 16:36:28 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	1102	N.D.		
34) Tetrahydrofuran (THF)	13.42	72	3552	0.336 ng	#	72
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	895	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.92	56	9279	0.525 ng		88
41) Benzene	14.88	78	10598	0.177 ng		96
42) Carbon Tetrachloride	15.10	117	1048	0.055 ng	#	79
43) Cyclohexane	15.29	84	2710	0.124 ng	#	82
44) tert-Amyl Methyl Ether	15.81	73	86	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	9494	0.135 ng		90
50) Methyl Methacrylate	16.89	100	336	0.061 ng	#	1
51) n-Heptane	16.88	71	2449	0.152 ng		94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.79	58	340	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	49093	0.879 ng		96
59) 2-Hexanone	19.39	43	2225	0.060 ng	#	58
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	9428	0.215 ng		91
63) n-Octane	20.26	57	1764	0.131 ng		93
64) Tetrachloroethene	20.46	166	128	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.82	91	24904	0.390 ng		99
67) m- & p-Xylenes	22.04	91	55805	1.080 ng		98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.51	104	5333	0.143 ng		96
70) o-Xylene	22.65	91	19997	0.386 ng		98
71) n-Nonane	22.91	43	21577	0.627 ng		95
72) 1,1,2,2-Tetrachloroethane	22.71	83	1157	0.050 ng	#	18
74) Cumene	23.41	105	1840	N.D.		
75) alpha-Pinene	23.90	93	86574	2.581 ng		76
76) n-Propylbenzene	24.05	91	5807	0.071 ng		86
77) 3-Ethyltoluene	24.17	105	14762	0.236 ng		96
78) 4-Ethyltoluene	24.23	105	6126	0.101 ng		100
79) 1,3,5-Trimethylbenzene	24.31	105	6711	0.131 ng		96

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 21 16:36:28 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

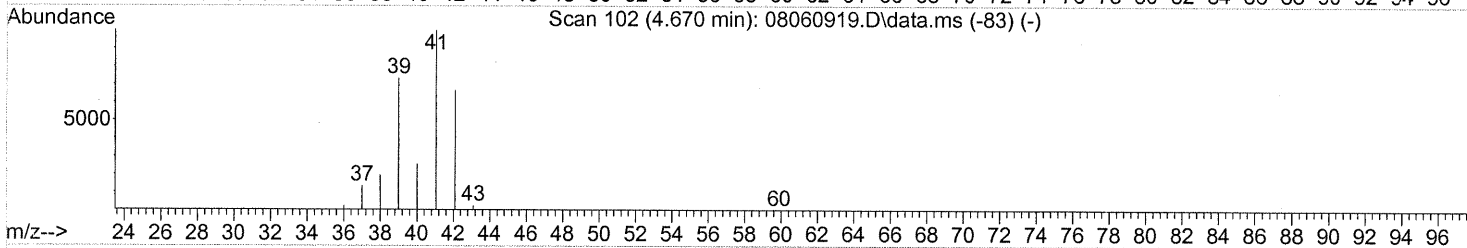
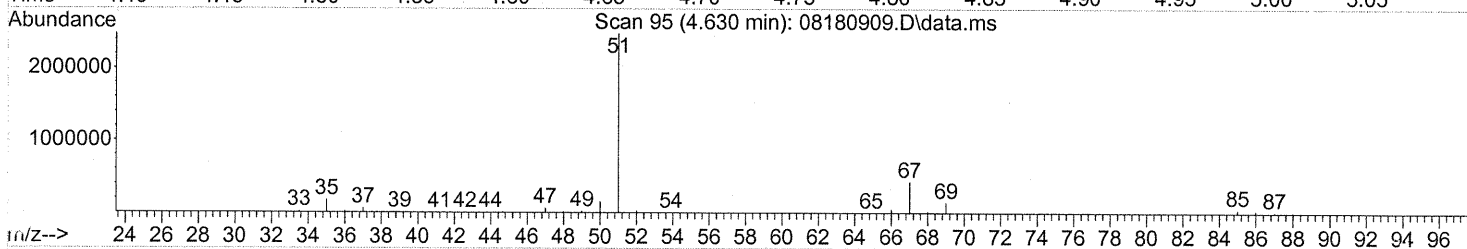
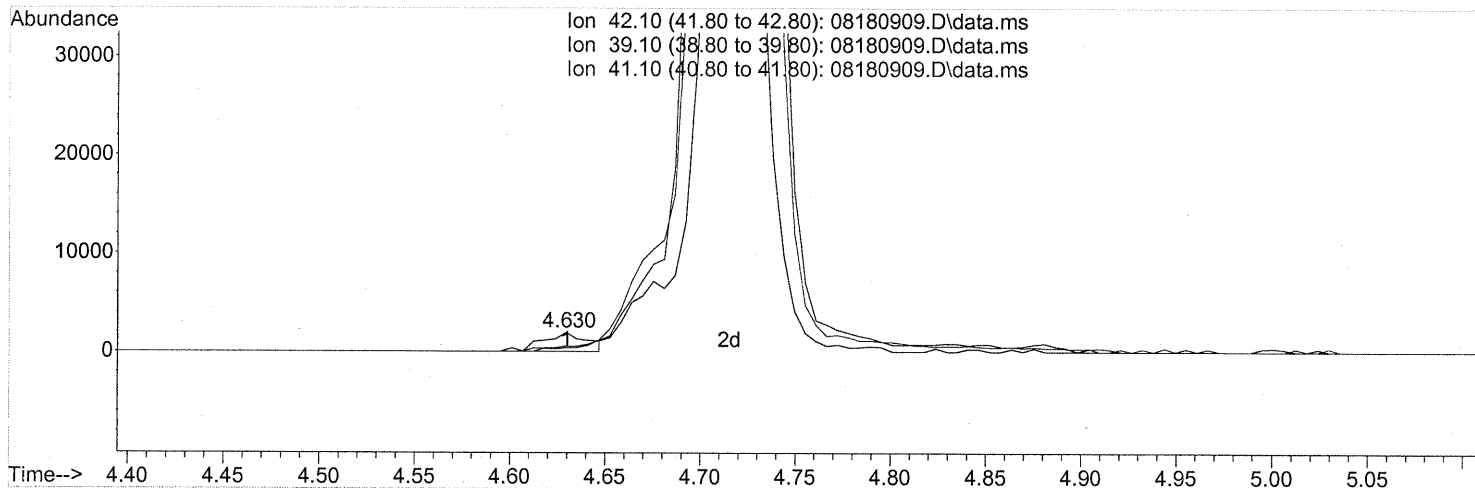
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.55	105	6159	0.098	ng	98
82) 1,2,4-Trimethylbenzene	24.83	105	18393	0.353	ng	90
83) n-Decane	24.93	57	29034	0.857	ng	100
84) Benzyl Chloride	25.01	91	95	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	556	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	556	N.D.		
87) sec-Butylbenzene	25.16	105	653	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	8230	0.131	ng	97
89) 1,2,3-Trimethylbenzene	25.35	105	5256	0.099	ng	93
90) 1,2-Dichlorobenzene	25.10	146	556	N.D.		
91) d-Limonene	25.53	68	24082	1.087	ng	92
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	9719	0.270	ng	98
94) 1,2,4-Trichlorobenzene	27.60	180	91	N.D.		
95) Naphthalene	27.74	128	4387	0.062	ng	84
96) n-Dodecane	27.69	57	7554	0.180	ng	97
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	4861	0.210	ng	89
99) tert-Butylbenzene	24.83	119	2126	N.D.		
100) n-Butylbenzene	25.91	91	1105	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.630min (-0.034) 0.17ng
 response 3109

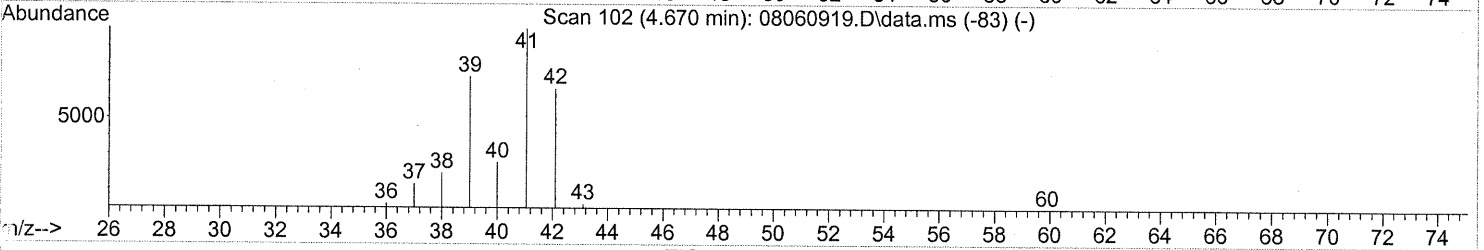
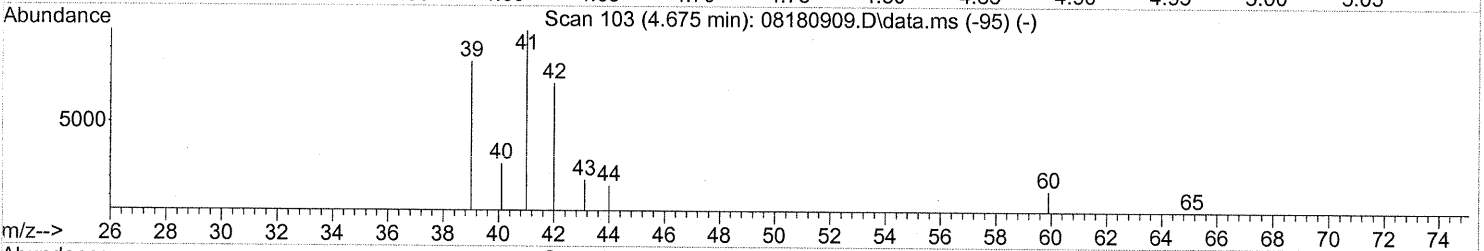
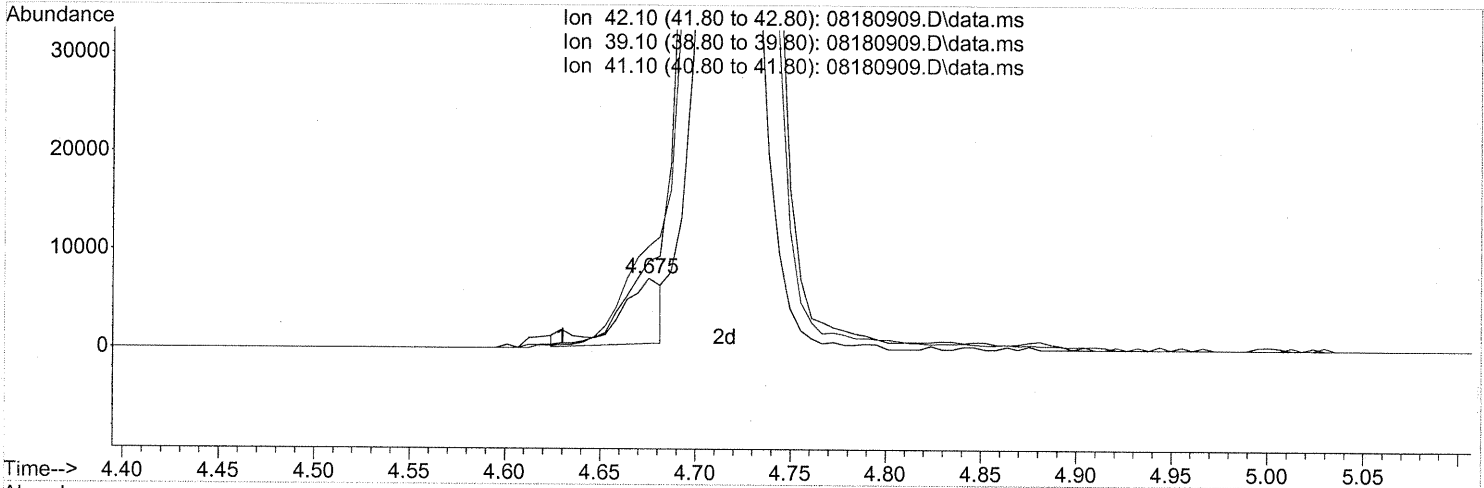
Ion	Exp%	Act%
42.10	100	100
39.10	111.90	0.00#
41.10	150.20	0.00#
0.00	0.00	0.00

SA

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180909.D\data.ms

(2) Propene (T)
 4.675min (+0.012) 0.57ng m
 response 10484

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

SH → IC and substr.

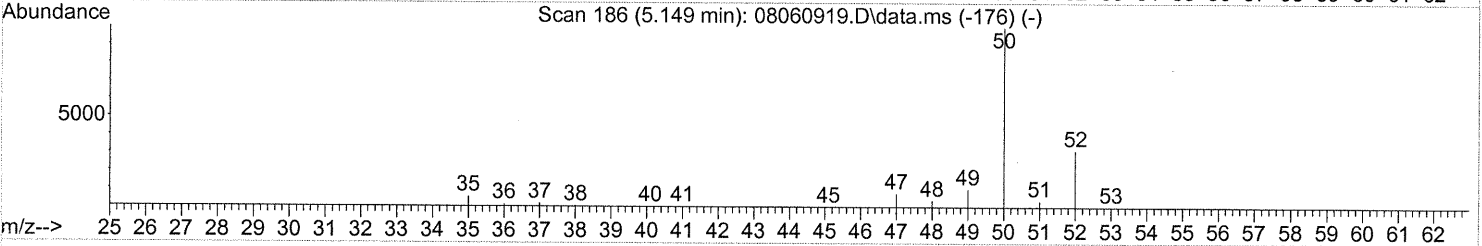
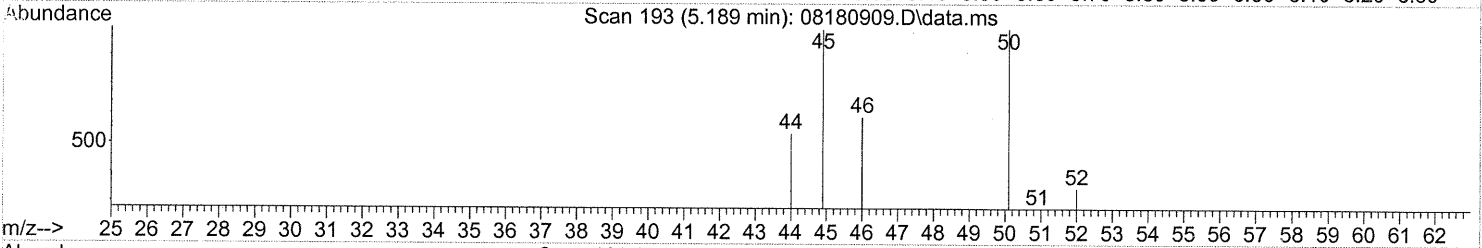
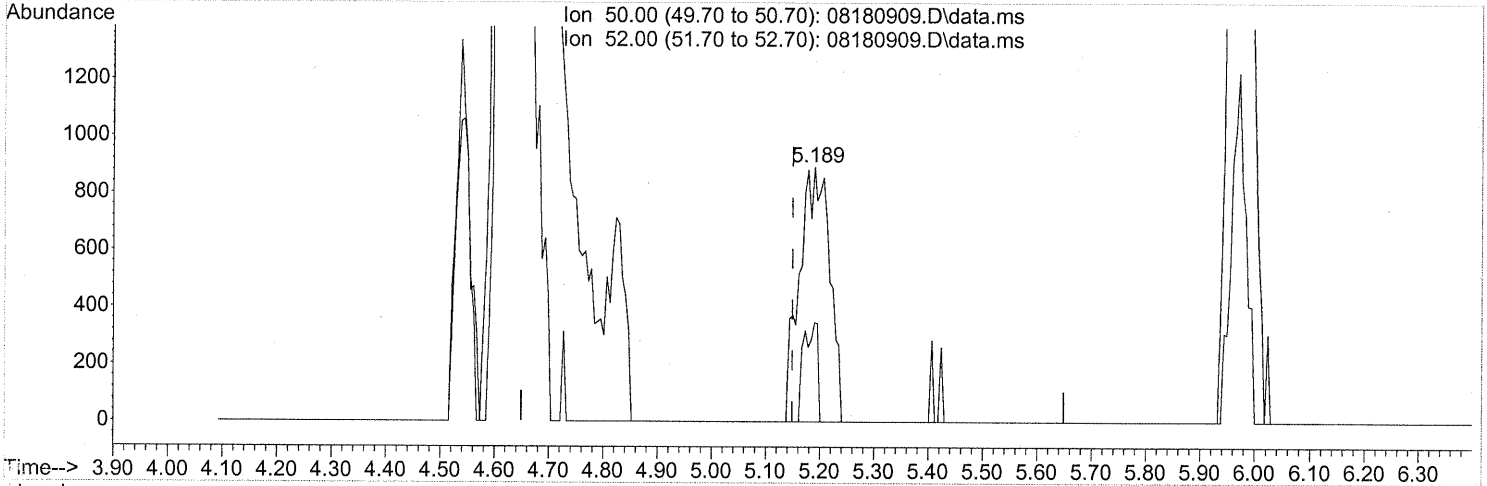
WA 8/22/09

em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.189min (+0.040) 0.17ng

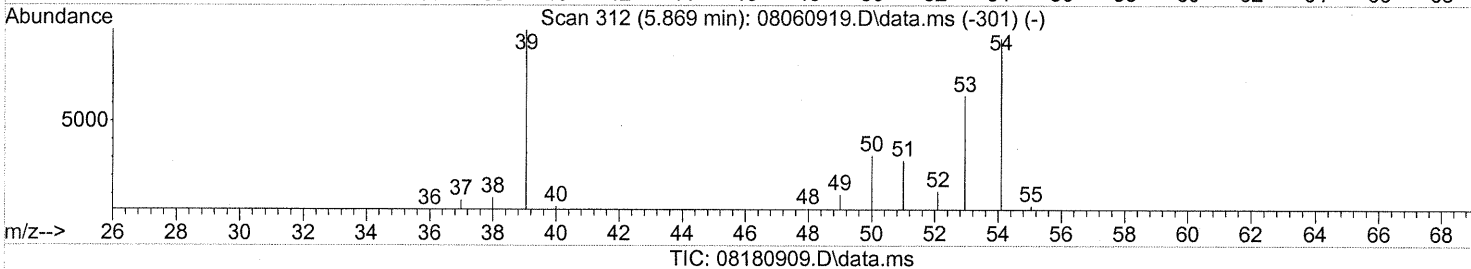
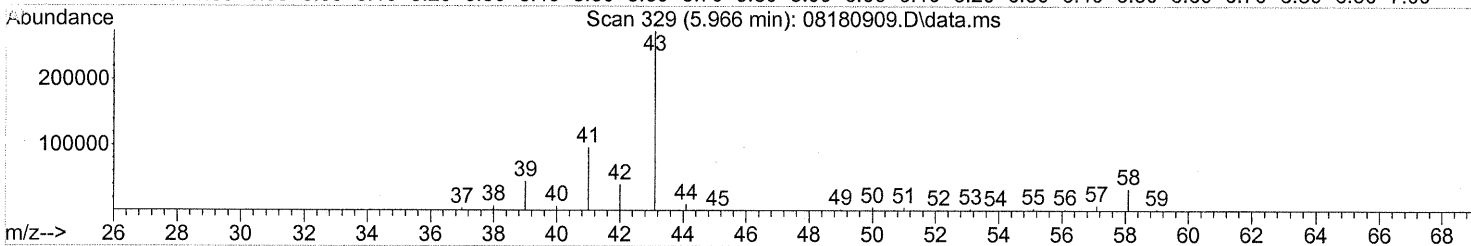
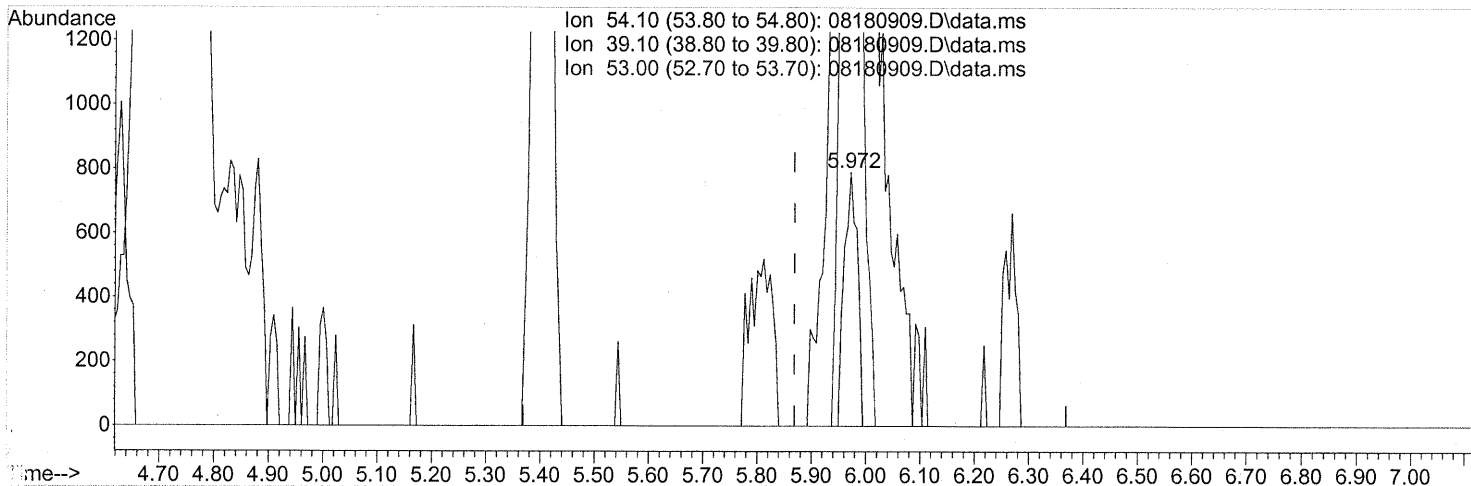
response 3455

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	18.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(7) 1,3-Butadiene (T)

5.972min (+0.103) 0.10ng

response 1335

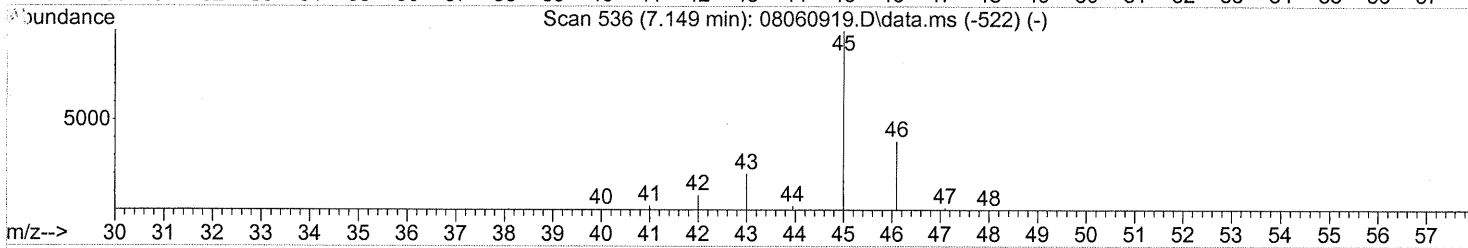
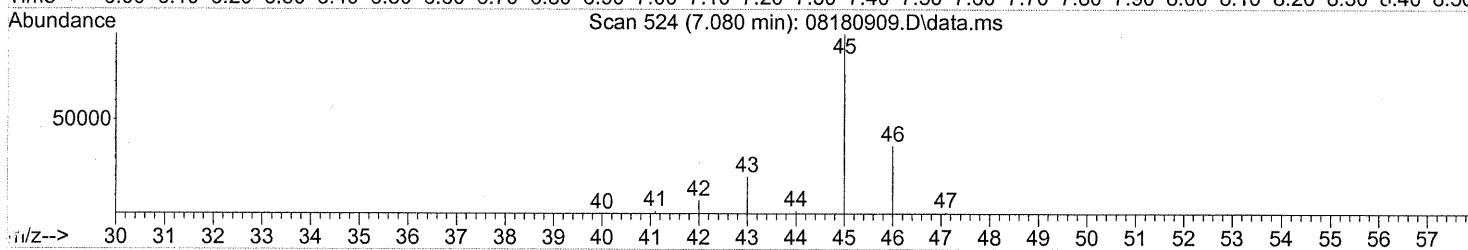
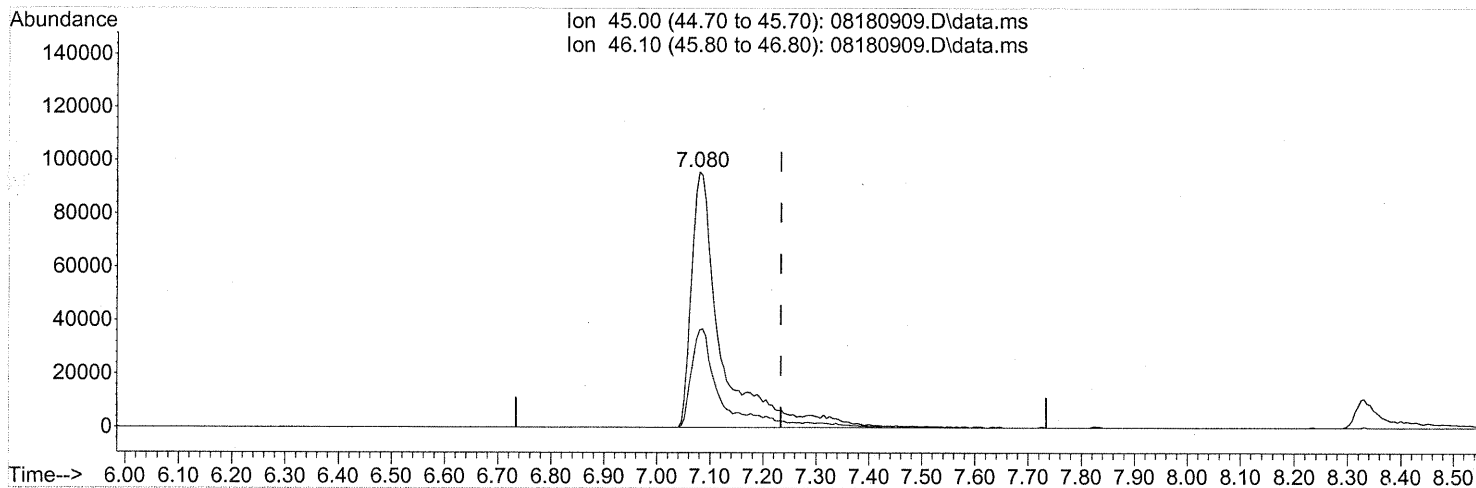
Ion	Exp%	Act%
54.10	100	100
39.10	106.70	8258.80#
53.00	69.50	557.15#
0.00	0.00	0.00

TP
DA 8/22/09 *Can 8/25/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180909.D\data.ms

(10) Ethanol (T)

7.080min (-0.154) 32.09ng

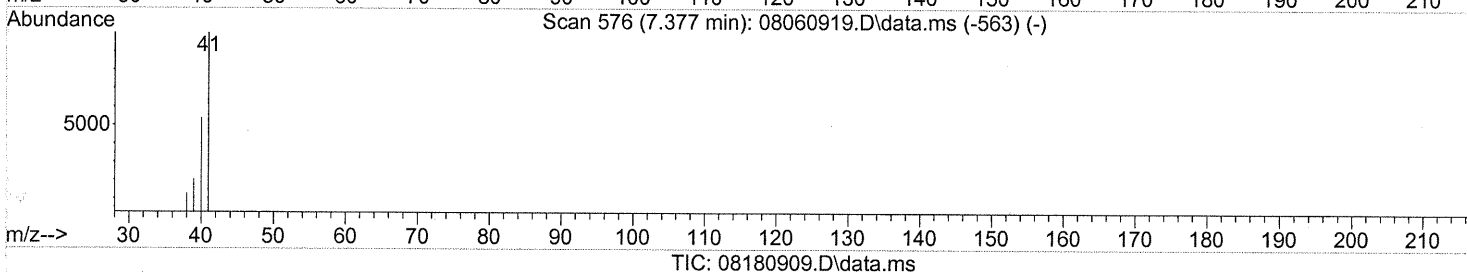
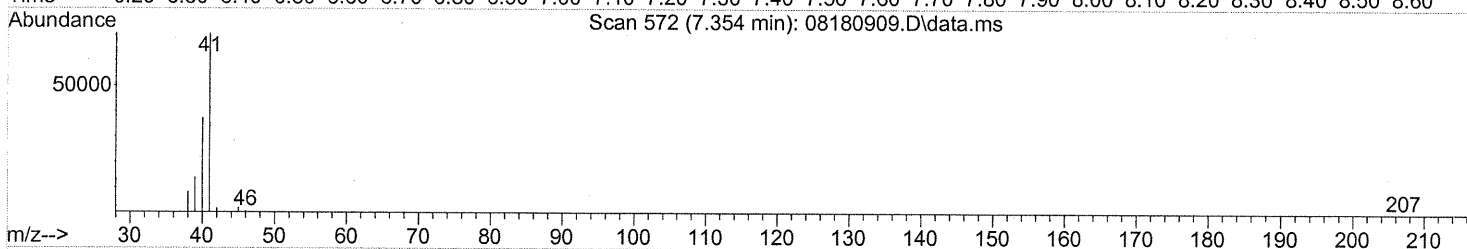
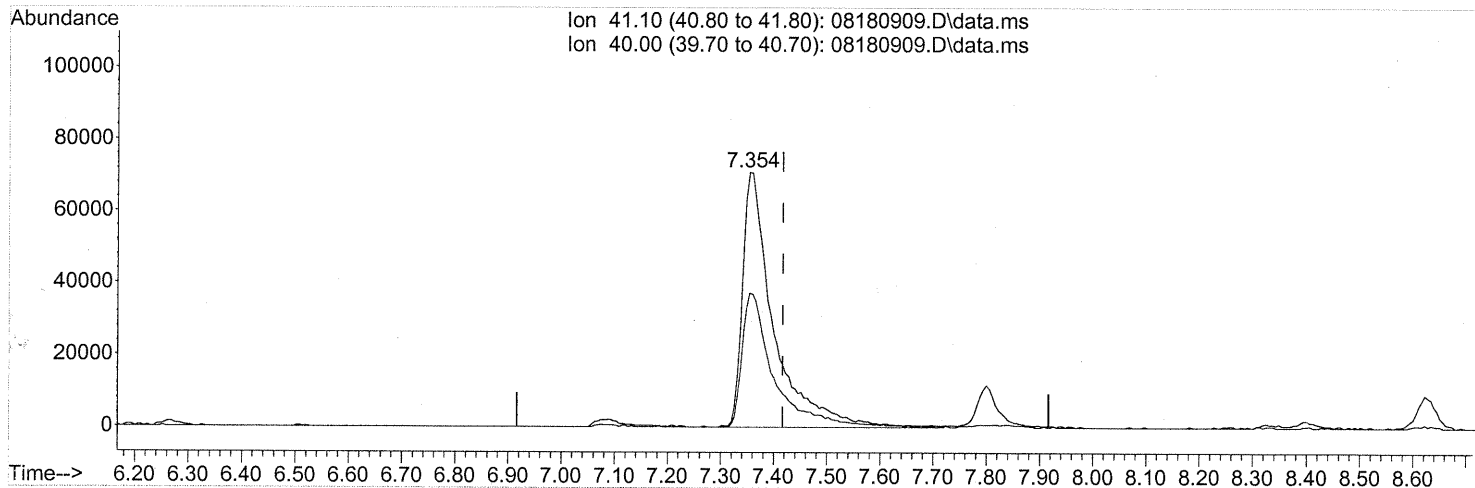
response 373522

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180909.D\data.ms

(11) Acetonitrile (T)

7.354min (-0.063) 8.47ng

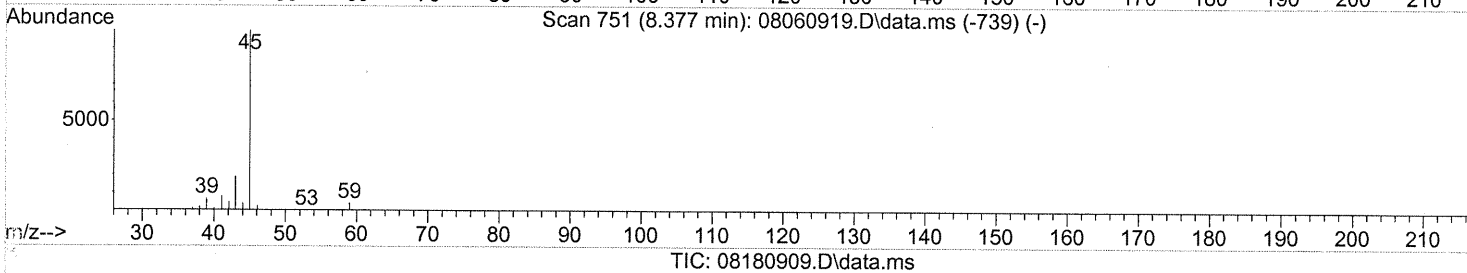
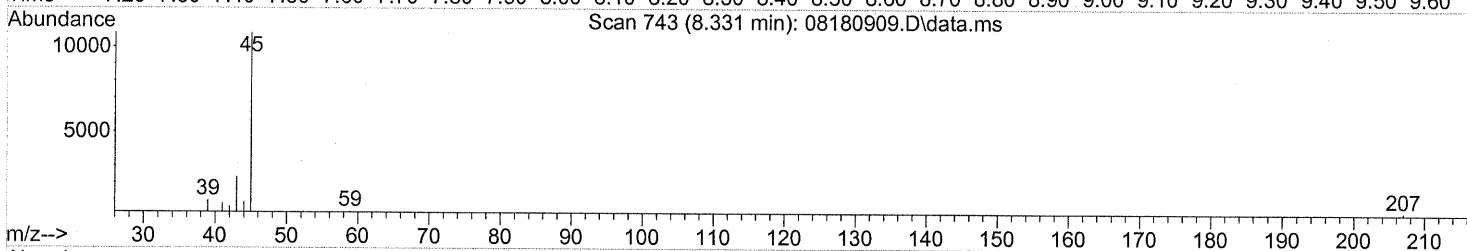
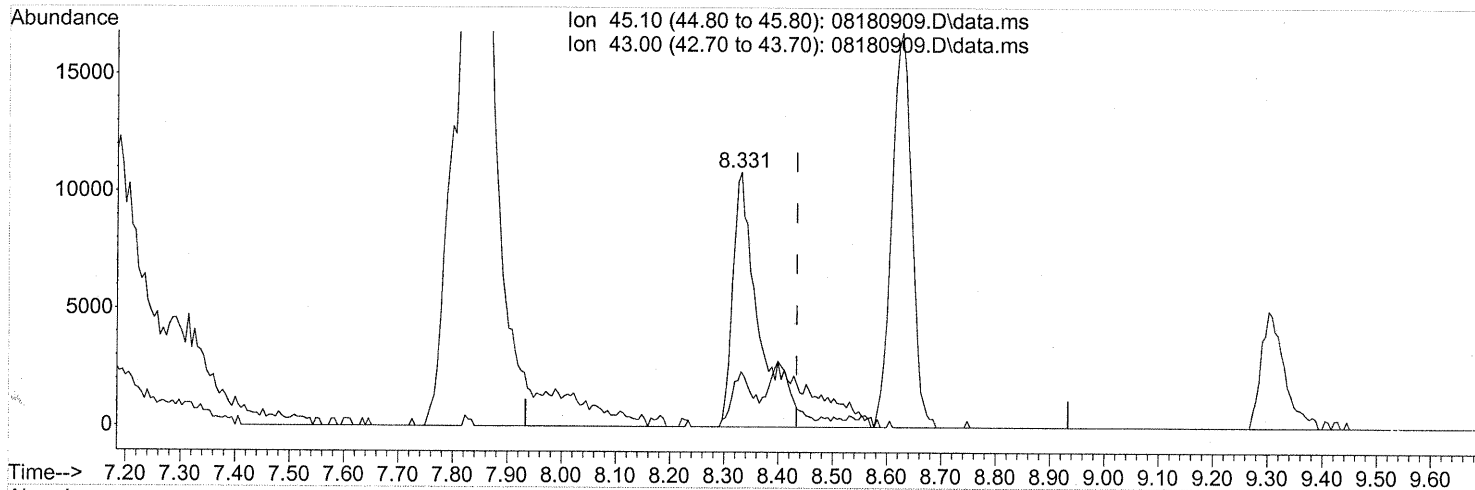
response 288758

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

8.331min (-0.103) 1.04ng

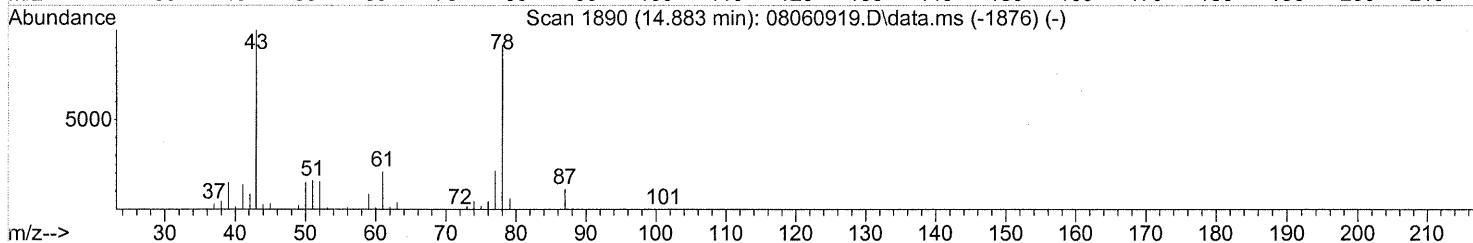
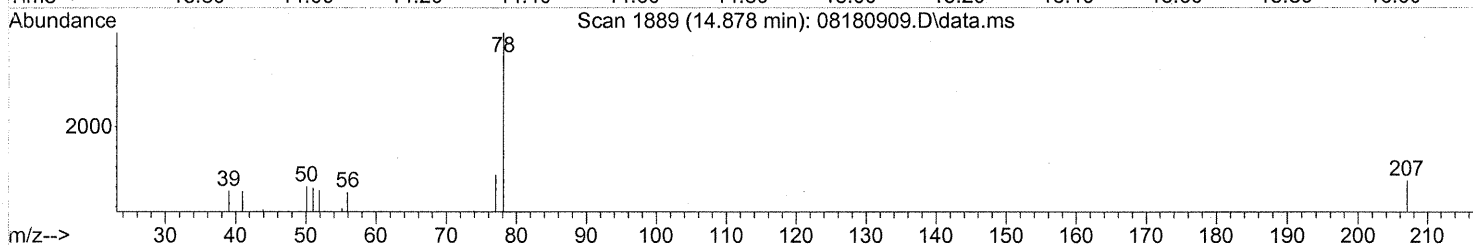
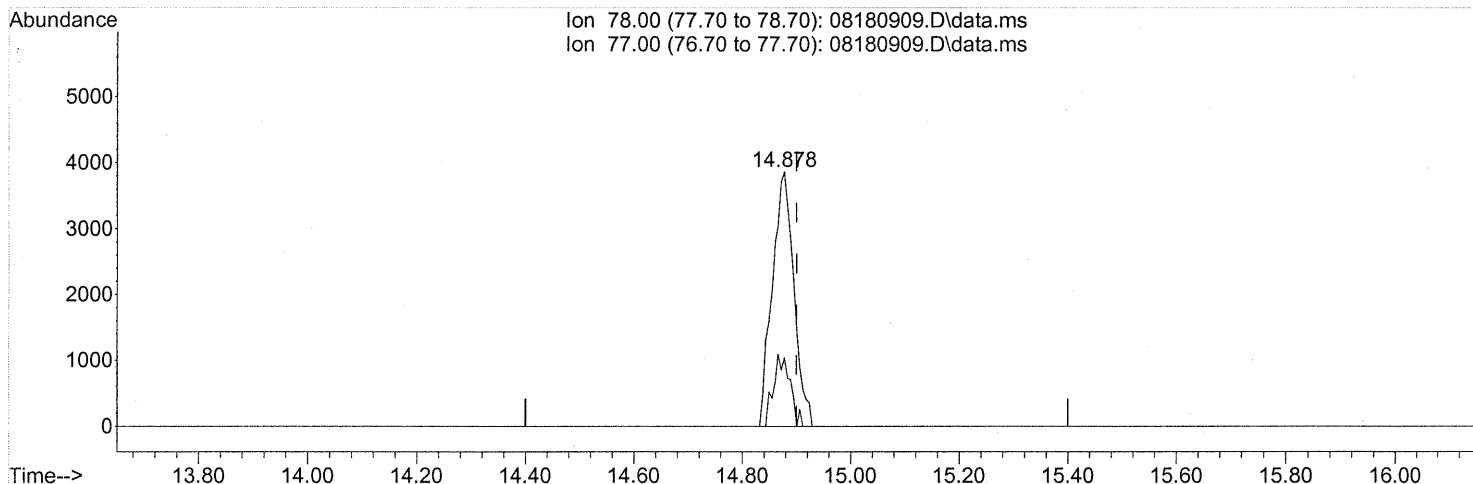
response 45016

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	14.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180909.D\data.ms

(41) Benzene (T)

14.878min (-0.023) 0.18ng

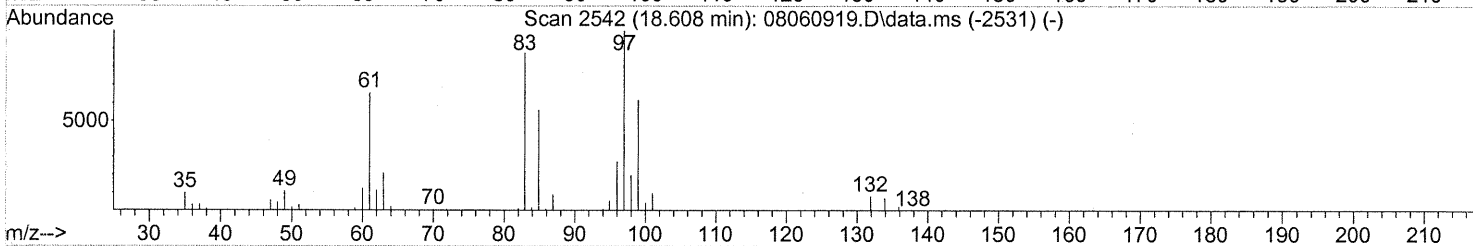
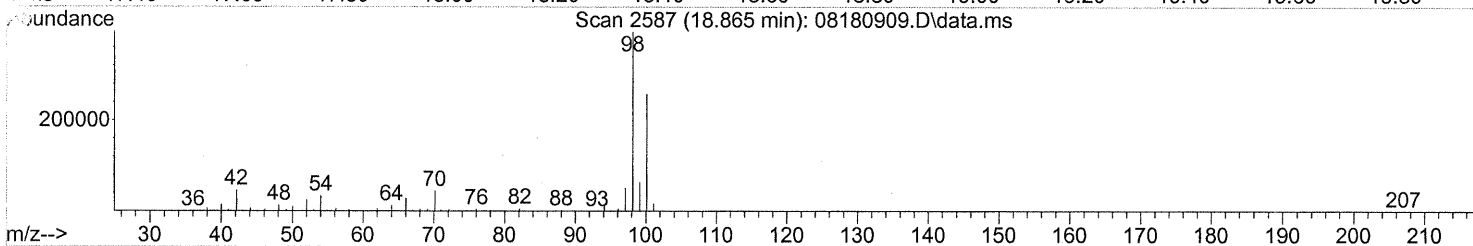
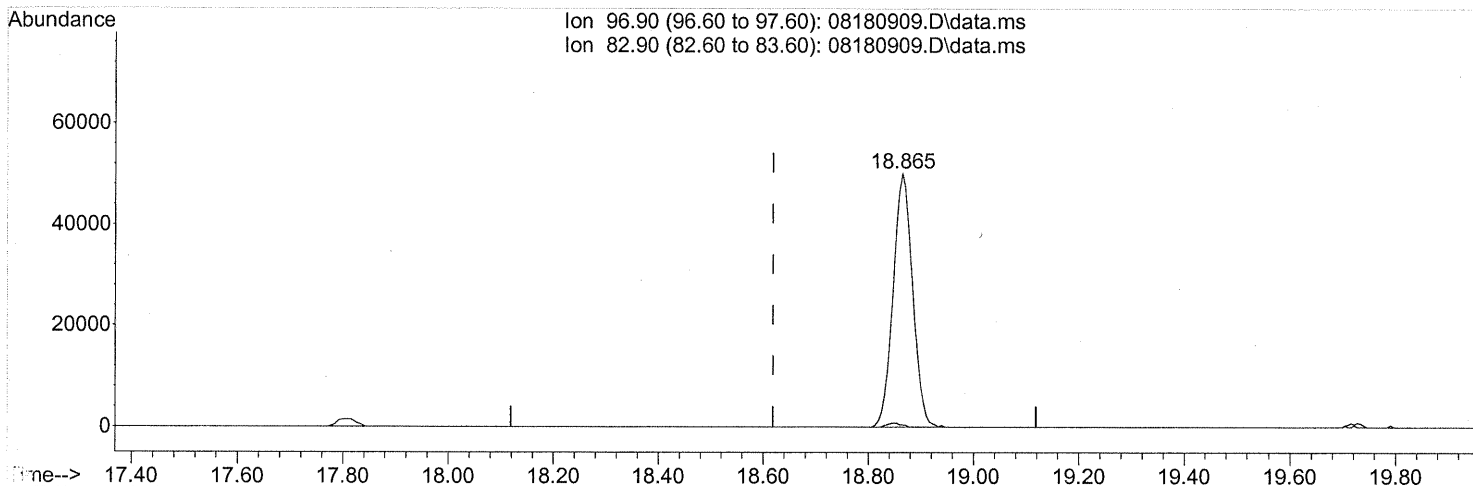
response 10598

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	21.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180909.D\data.ms

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

18.865min (+0.246) 9.78ng

response 128493

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.05#
0.00	0.00	0.00
0.00	0.00	0.00

TP

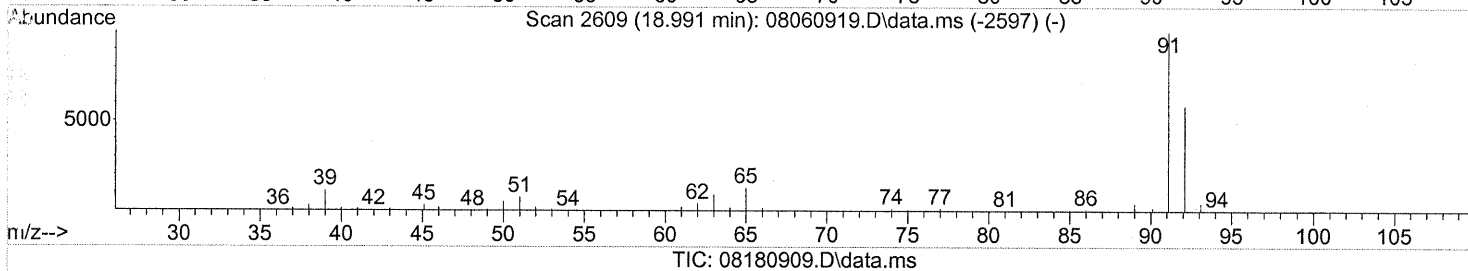
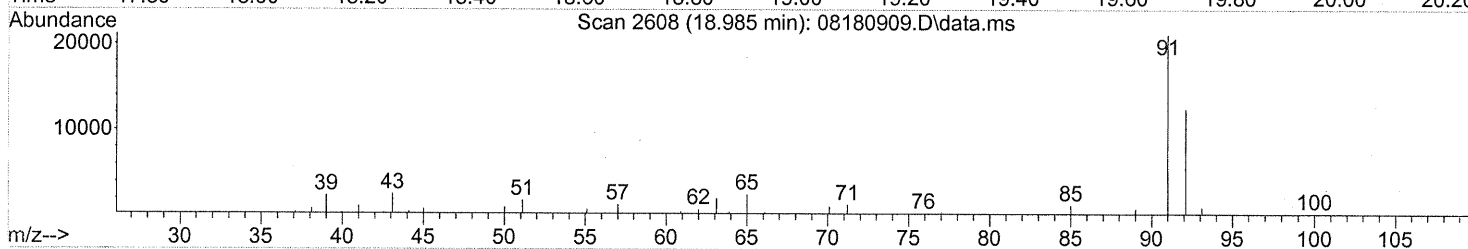
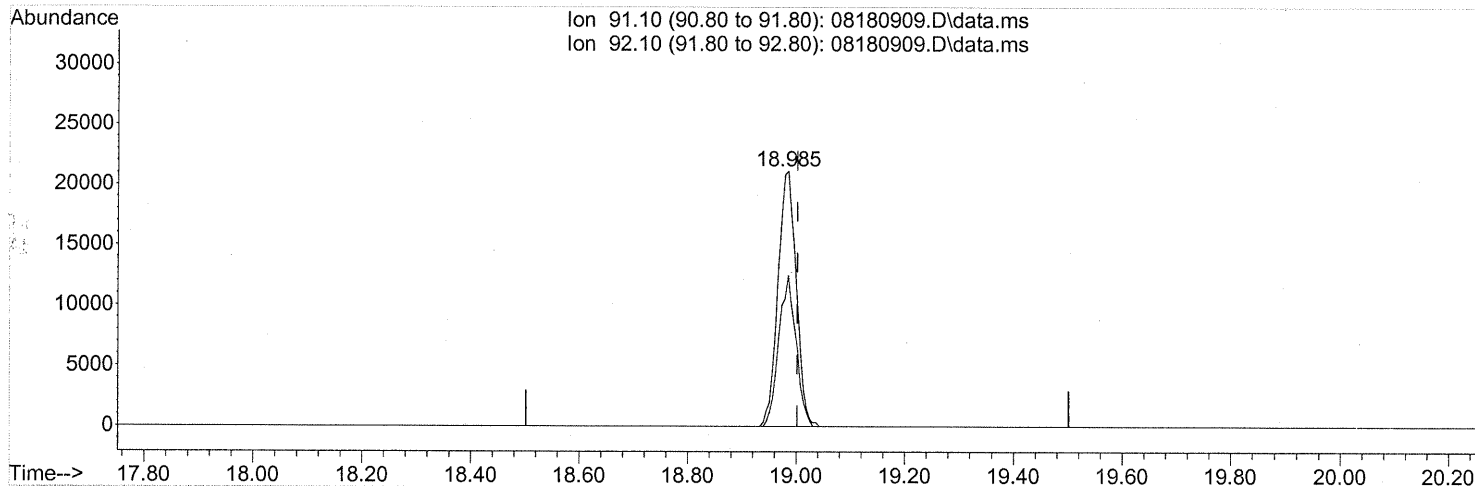
10A 8/22/09

EM 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 0.88ng

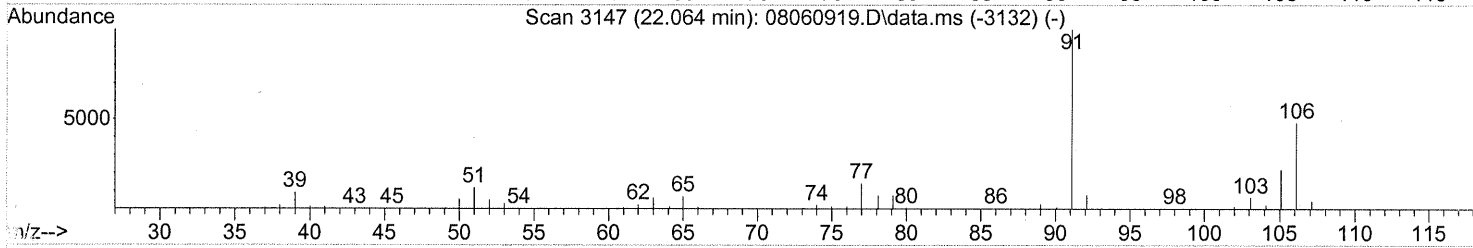
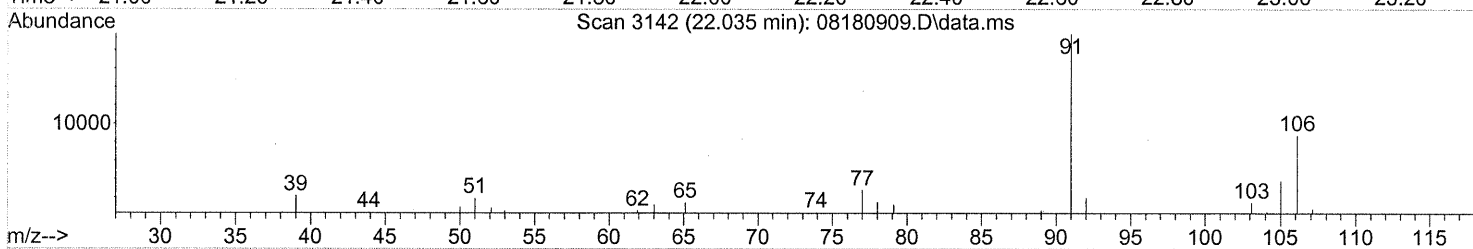
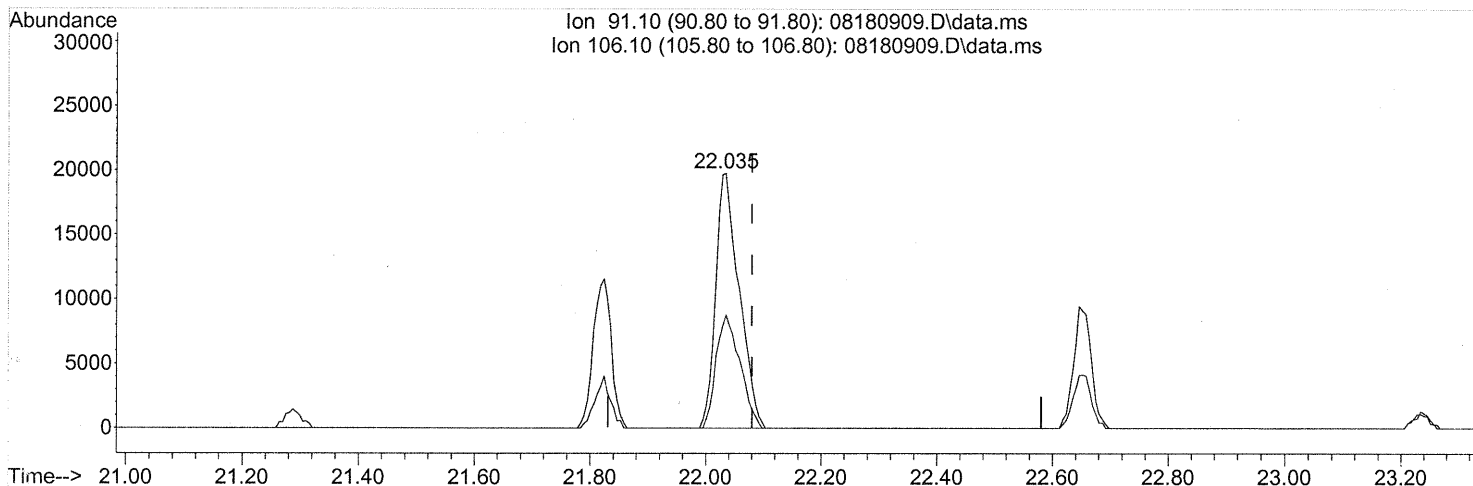
response 49093

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	55.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



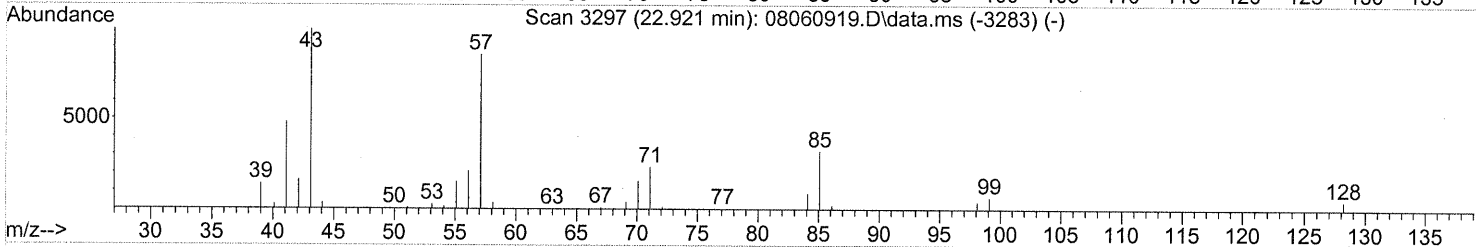
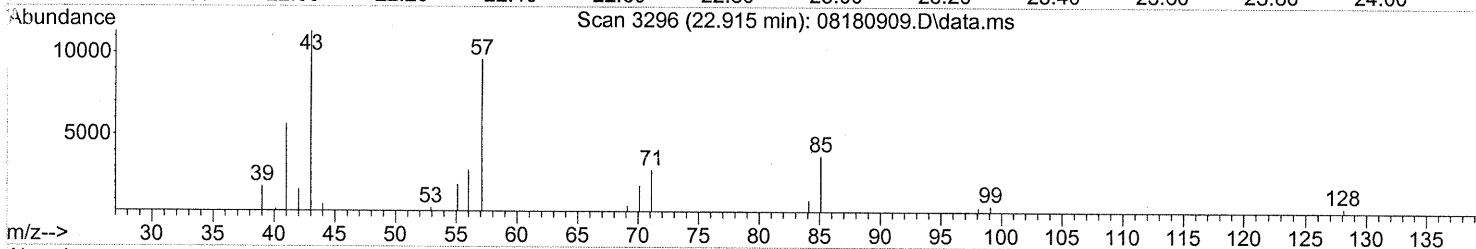
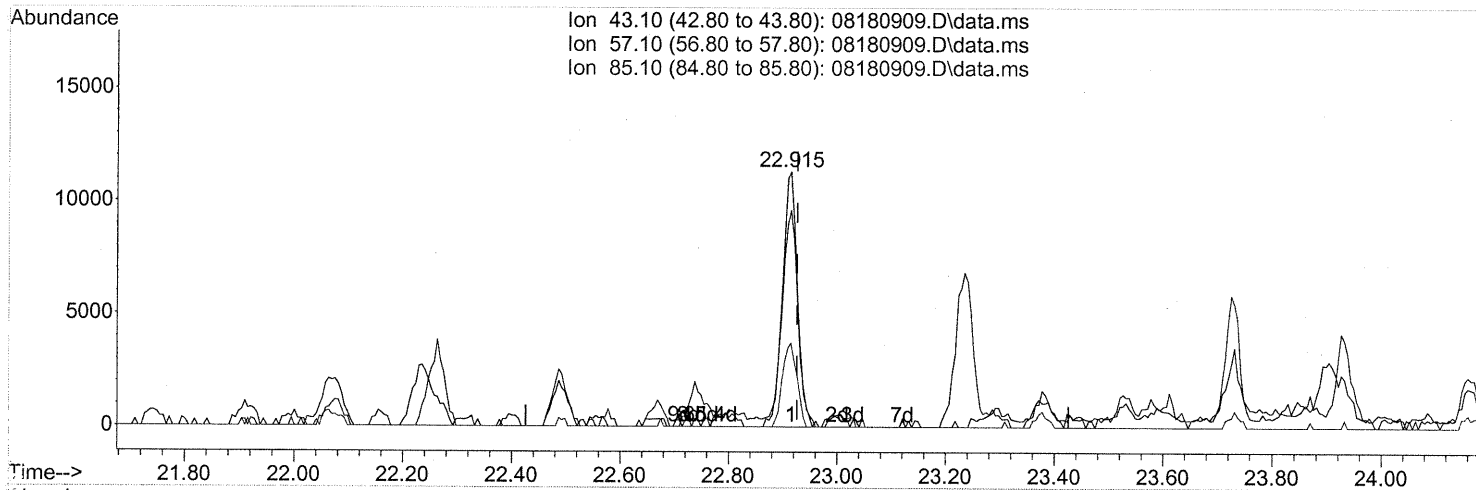
(67) m- & p-Xylenes (T)
 22.035min (-0.046) 1.08ng
 response 55805

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	45.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



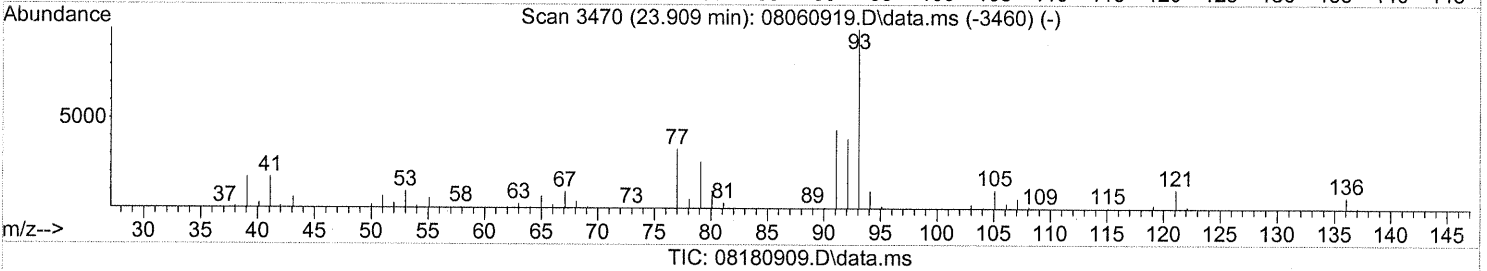
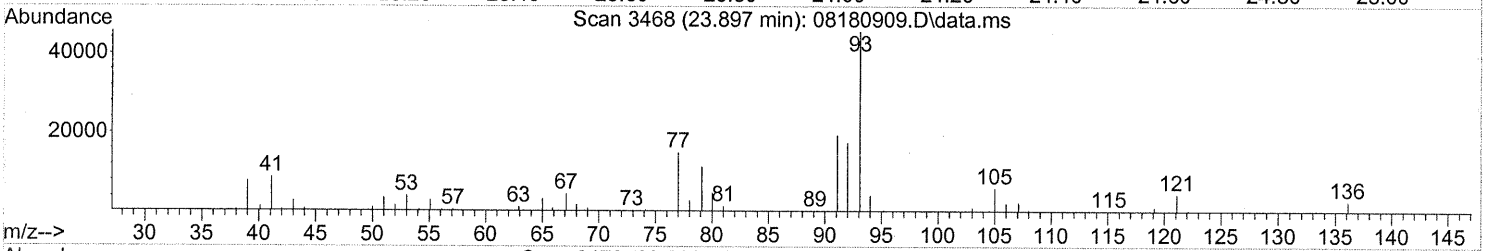
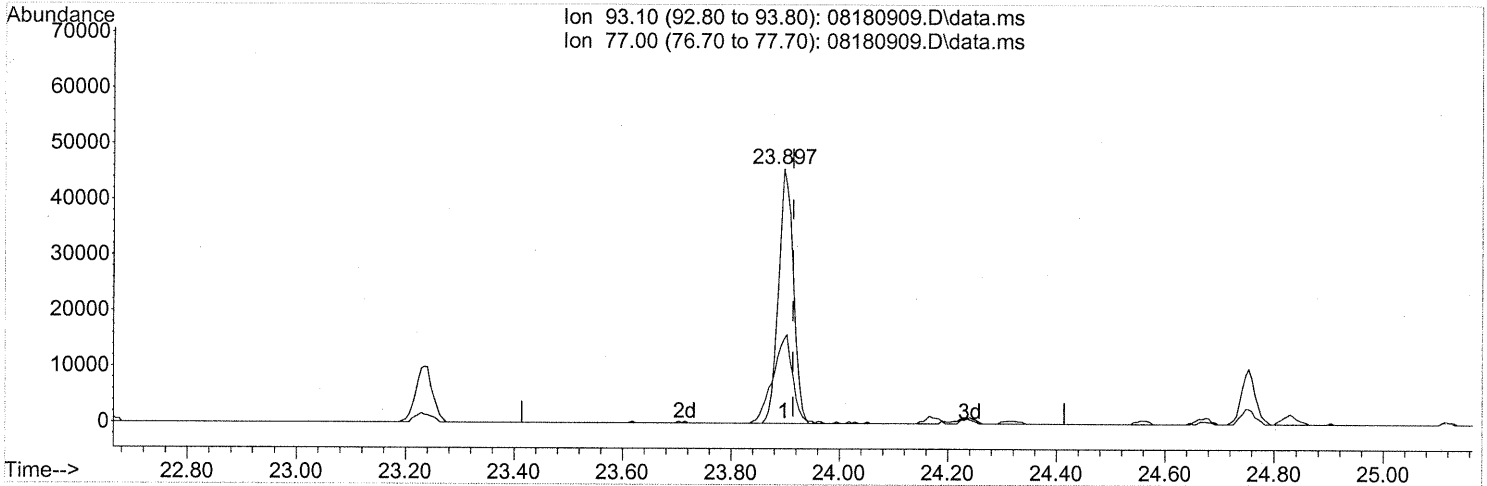
(71) n-Nonane (T)
 22.915min (-0.011) 0.63ng
 response 21577

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	90.16
85.10	30.40	31.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



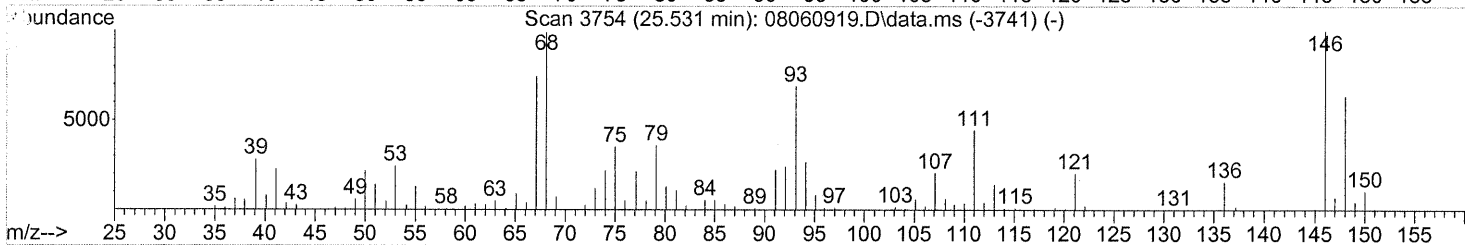
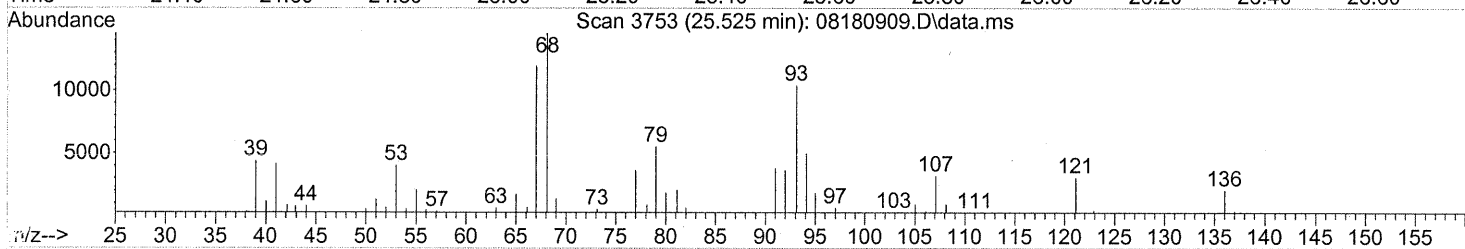
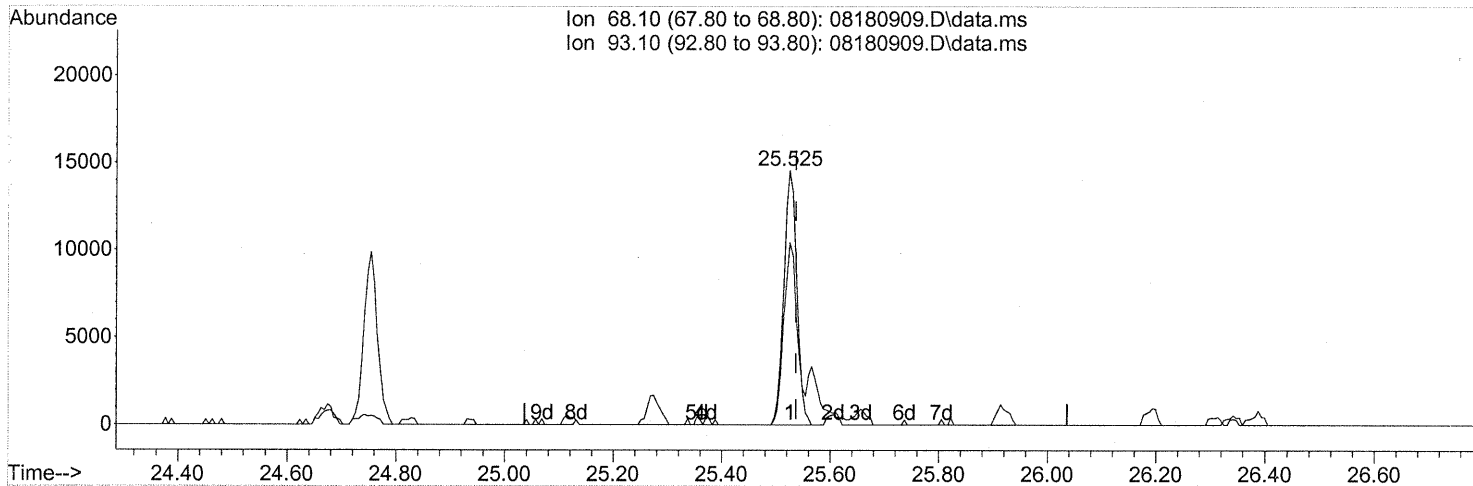
(75) alpha-Pinene (T)
 23.897min (-0.017) 2.58ng
 response 86574

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	45.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180909.D
 Acq On : 18 Aug 2009 20:05
 Operator : WA
 Sample : P0902766-002 (1000mL)
 Misc : Env. Health & Engineering 101161
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 10:11:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180909.D\data.ms

(91) d-Limonene (T)
 25.525min (-0.011) 1.09ng
 response 24082

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	74.42
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: 101162
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00977

CAS Project ID: P0902766
 CAS Sample ID: P0902766-003

Date Collected: 8/11/09
 Date Received: 8/12/09
 Date Analyzed: 8/19/09
 Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.85	ND	0.49	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.85	0.54	0.17	
74-87-3	Chloromethane	0.93	0.17	0.45	0.082	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.85	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.17	ND	0.066	
106-99-0	1,3-Butadiene	ND	0.17	ND	0.076	
74-83-9	Bromomethane	ND	0.17	ND	0.044	
75-00-3	Chloroethane	ND	0.17	ND	0.064	
64-17-5	Ethanol	450	8.5	240	4.5	
75-05-8	Acetonitrile	160	0.85	97	0.50	
107-02-8	Acrolein	5.4	0.85	2.4	0.37	
67-64-1	Acetone	65	8.5	27	3.6	
75-69-4	Trichlorofluoromethane	1.3	0.17	0.23	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	10	0.85	4.1	0.34	
107-13-1	Acrylonitrile	ND	0.85	ND	0.39	
75-35-4	1,1-Dichloroethene	ND	0.17	ND	0.043	
75-09-2	Methylene Chloride	ND	0.85	ND	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	ND	0.054	
76-13-1	Trichlorotrifluoroethane	0.60	0.17	0.079	0.022	
75-15-0	Carbon Disulfide	1.7	0.85	0.56	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	1.0	0.17	0.28	0.047	
108-05-4	Vinyl Acetate	ND	8.5	ND	2.4	
78-93-3	2-Butanone (MEK)	5.5	0.85	1.9	0.29	

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

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

Verified By: _____

Date: 8/25/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101162
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00977

CAS Project ID: P0902766
CAS Sample ID: P0902766-003

Date Collected: 8/11/09
Date Received: 8/12/09
Date Analyzed: 8/19/09
Volume(s) Analyzed: 1.00 Liter(s)


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

Canister Dilution Factor: 1.69

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	ND	0.043	
141-78-6	Ethyl Acetate	1.9	0.85	0.54	0.23	
110-54-3	n-Hexane	1.8	0.85	0.51	0.24	
67-66-3	Chloroform	0.75	0.17	0.15	0.035	
109-99-9	Tetrahydrofuran (THF)	2.7	0.85	0.93	0.29	
107-06-2	1,2-Dichloroethane	1.0	0.17	0.26	0.042	
71-55-6	1,1,1-Trichloroethane	ND	0.17	ND	0.031	
71-43-2	Benzene	1.8	0.17	0.58	0.053	
56-23-5	Carbon Tetrachloride	0.58	0.17	0.092	0.027	
110-82-7	Cyclohexane	1.4	0.85	0.41	0.25	
78-87-5	1,2-Dichloropropane	ND	0.17	ND	0.037	
75-27-4	Bromodichloromethane	ND	0.17	ND	0.025	
79-01-6	Trichloroethene	ND	0.17	ND	0.031	
123-91-1	1,4-Dioxane	ND	0.85	ND	0.23	
80-62-6	Methyl Methacrylate	ND	0.85	ND	0.21	
142-82-5	n-Heptane	2.0	0.85	0.48	0.21	
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	ND	0.19	
108-10-1	4-Methyl-2-pentanone	ND	0.85	ND	0.21	
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	ND	0.19	
79-00-5	1,1,2-Trichloroethane	ND	0.17	ND	0.031	
108-88-3	Toluene	10	0.85	2.7	0.22	
591-78-6	2-Hexanone	ND	0.85	ND	0.21	
124-48-1	Dibromochloromethane	ND	0.17	ND	0.020	
106-93-4	1,2-Dibromoethane	ND	0.17	ND	0.022	
123-86-4	n-Butyl Acetate	2.9	0.85	0.61	0.18	

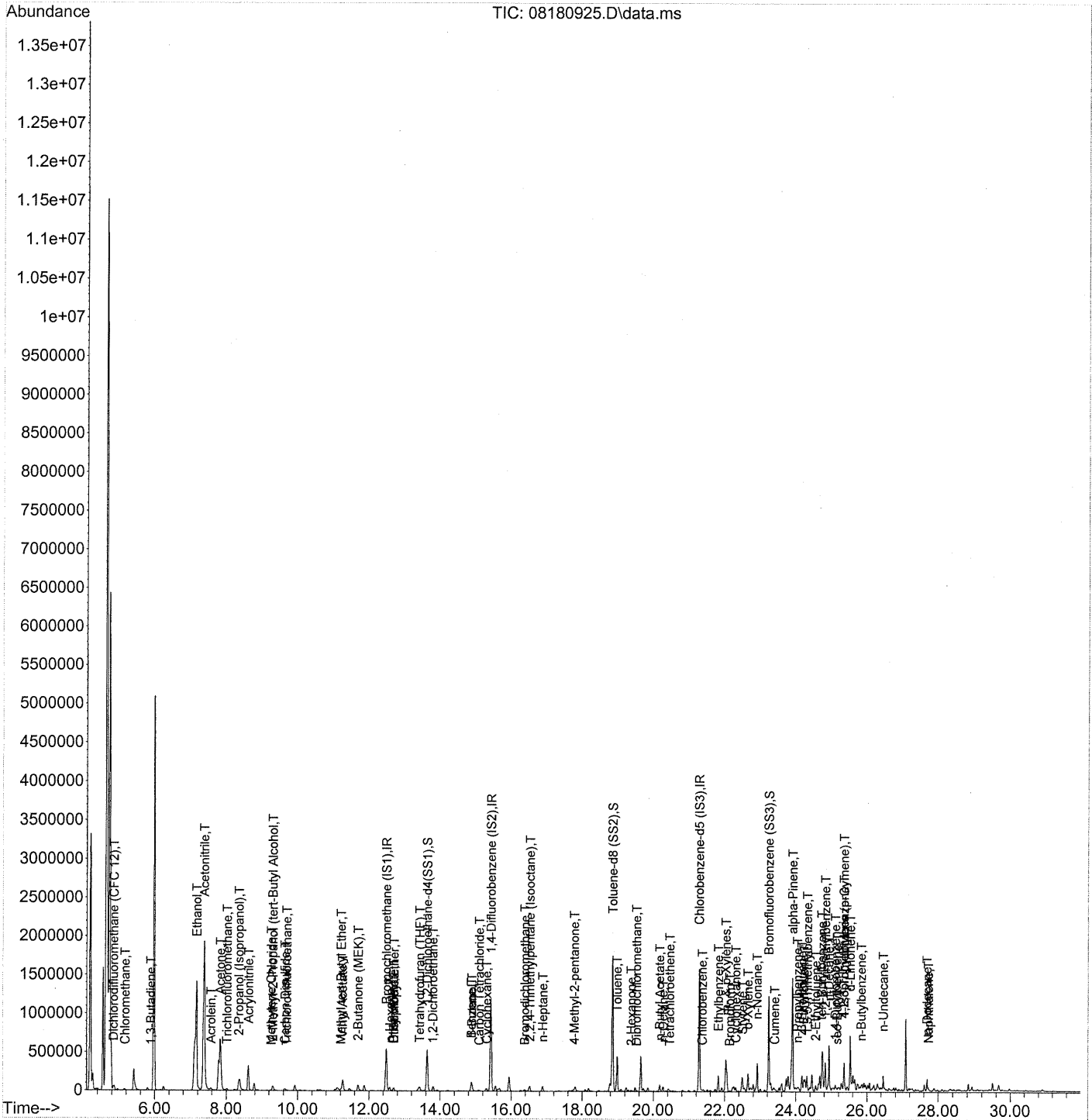
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By:  Date: 8/25/09 **83**

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 16:46:50 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	272229	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1370304	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	656210	25.000	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)	Recovery
33) 1,2-Dichloroethane-d4(...)	13.63	65	554472	23.434	ng	-0.03	93.72%
Spiked Amount				25.000			
57) Toluene-d8 (SS2)	18.85	98	1476508	25.751	ng	-0.01	103.00%
Spiked Amount				25.000			
73) Bromofluorobenzene (SS3)	23.24	174	392214	25.939	ng	0.00	103.76%
Spiked Amount				25.000			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.85	85	48424	1.586	ng	99
4) Chloromethane	5.17	50	11262	0.549	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	455	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	776	0.055	ng	# 18
8) Bromomethane	6.35	94	528	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.17	45	3140448	265.211	ng	99
11) Acetonitrile	7.38	41	3348477	96.558	ng	100
12) Acrolein	7.58	56	28886	3.205	ng	97
13) Acetone	7.83	58	430297	38.513	ng	94
14) Trichlorofluoromethane	8.02	101	21299	0.772	ng	98
15) 2-Propanol (Isopropanol)	8.35	45	259947	5.920	ng	77
16) Acrylonitrile	8.62	53	5595	0.277	ng	# 47
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	11537	0.296	ng	# 1
19) Methylene Chloride	9.26	84	5554	0.370	ng	84
20) 3-Chloro-1-propene (Al...	9.46	41	181	N.D.		
21) Trichlorotrifluoroethane	9.69	151	3574	0.356	ng	91
22) Carbon Disulfide	9.64	76	54354	1.027	ng	96
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.21	73	25480	0.603	ng	98
26) Vinyl Acetate	11.25	86	7313	3.216	ng	# 1
27) 2-Butanone (MEK)	11.70	72	32632	3.235	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.70	87	1229	0.091	ng	# 1
30) Ethyl Acetate	12.70	61	6038	1.149	ng	98
31) n-Hexane	12.59	57	28354	1.055	ng	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.69	83	10466	0.442 ng		98
34) Tetrahydrofuran (THF)	13.42	72	17493	1.627 ng	#	70
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	13219	0.611 ng		93
38) 1,1,1-Trichloroethane	14.19	97	119	N.D.		
39) Isopropyl Acetate	14.86	61	222	N.D.		
40) 1-Butanol	14.89	56	64144	3.607 ng		79
41) Benzene	14.88	78	65583	1.089 ng		100
42) Carbon Tetrachloride	15.10	117	6547	0.341 ng		90
43) Cyclohexane	15.31	84	18231	0.826 ng		94
44) tert-Amyl Methyl Ether	15.88	73	969	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.38	83	4245	0.214 ng	7#	52
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.55	88	95	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	66329	0.935 ng		88
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.89	71	18665	1.154 ng		98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.78	58	5292	0.365 ng		93
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	344832	6.119 ng		99
59) 2-Hexanone	19.38	43	16017	0.427 ng		91
60) Dibromochloromethane	19.53	129	1081	0.081 ng		93
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	75128	1.701 ng		96
63) n-Octane	20.28	57	12806	0.940 ng		99
64) Tetrachloroethene	20.46	166	4046	0.310 ng		100
65) Chlorobenzene	21.37	112	1793	0.051 ng	#	43
66) Ethylbenzene	21.82	91	183845	2.854 ng		100
67) m- & p-Xylenes	22.04	91	398539	7.648 ng		99
68) Bromoform	22.15	173	1783	0.161 ng		85
69) Styrene	22.50	104	49612	1.317 ng		99
70) o-Xylene	22.65	91	140859	2.696 ng		97
71) n-Nonane	22.91	43	156413	4.506 ng		99
72) 1,1,2,2-Tetrachloroethane	22.65	83	1119	N.D.		
74) Cumene	23.41	105	12842	0.195 ng		96
75) alpha-Pinene	23.90	93	656433	19.404 ng		70
76) n-Propylbenzene	24.05	91	38509	0.464 ng		95
77) 3-Ethyltoluene	24.17	105	96103	1.524 ng		99
78) 4-Ethyltoluene	24.23	105	40528	0.663 ng		97
79) 1,3,5-Trimethylbenzene	24.32	105	44342	0.860 ng		100

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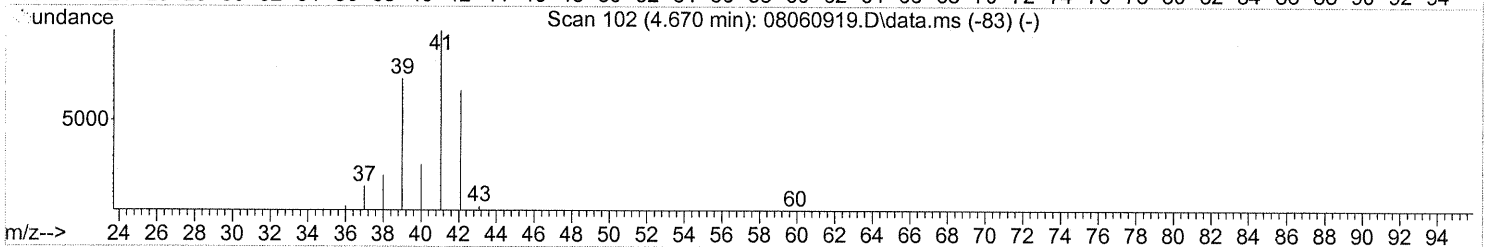
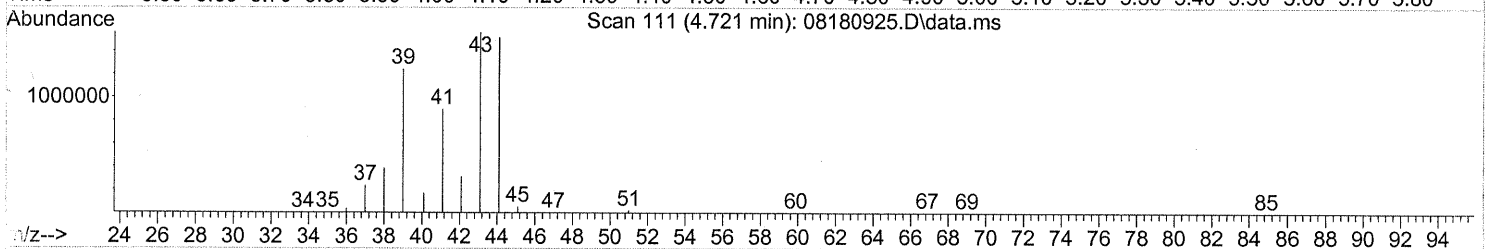
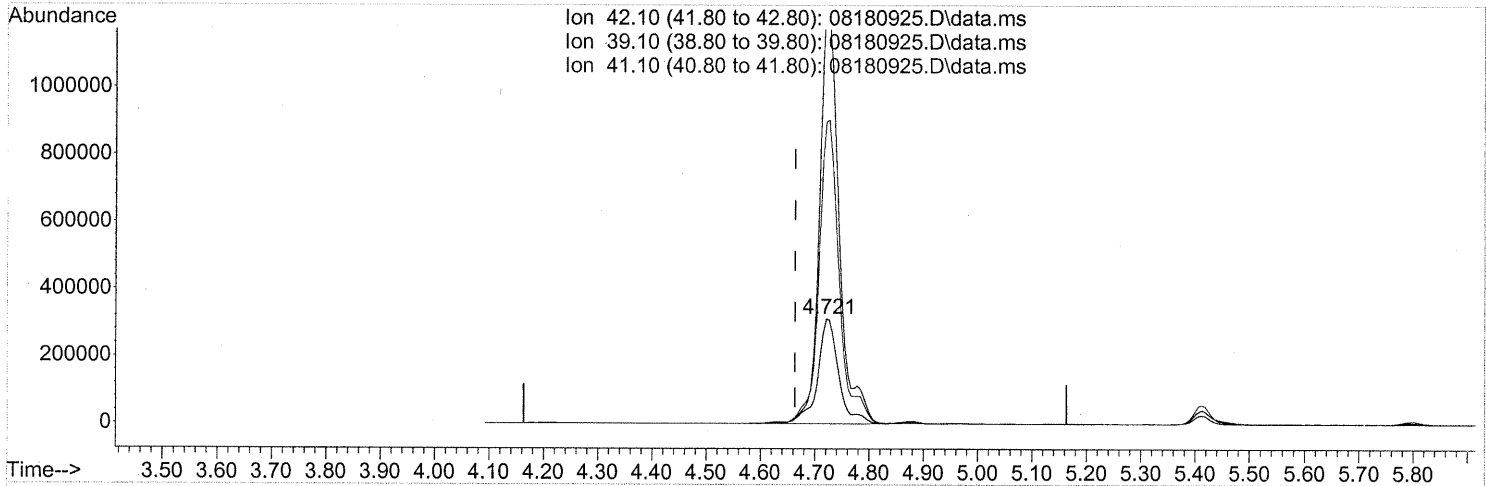
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1366	N.D.		
81) 2-Ethyltoluene	24.56	105	42212	0.664 ng		98
82) 1,2,4-Trimethylbenzene	24.83	105	132225	2.515 ng		89
83) n-Decane	24.93	57	204381	5.980 ng		98
84) Benzyl Chloride	25.01	91	125	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D. d		
86) 1,4-Dichlorobenzene	25.11	146	3213	0.113 ng		91
87) sec-Butylbenzene	25.16	105	3713	0.052 ng		85
88) 4-Isopropyltoluene (p-...	25.35	119	61196	0.966 ng		98
89) 1,2,3-Trimethylbenzene	25.35	105	37820	0.706 ng		92
90) 1,2-Dichlorobenzene	0.00	146	0	N.D. d		
91) d-Limonene	25.53	68	179303	8.022 ng	#	69
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	65645	1.805 ng		92
94) 1,2,4-Trichlorobenzene	27.59	180	112	N.D.		
95) Naphthalene	27.73	128	21777	0.305 ng	RL	100
96) n-Dodecane	27.69	57	49279	1.167 ng		97
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	23601	1.011 ng		88
99) tert-Butylbenzene	24.73	119	9391	0.185 ng		95
100) n-Butylbenzene	25.84	91	11850	0.202 ng	#	42

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

Quantitation Report (Qedit)

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 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
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(2) Propene (T)

4.721min (+0.057) 45.32ng

response 846689

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	367.13#
41.10	150.20	277.54#
0.00	0.00	0.00

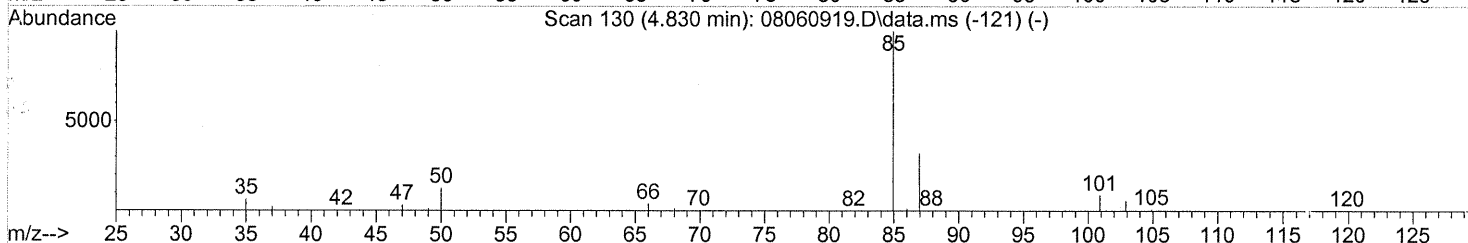
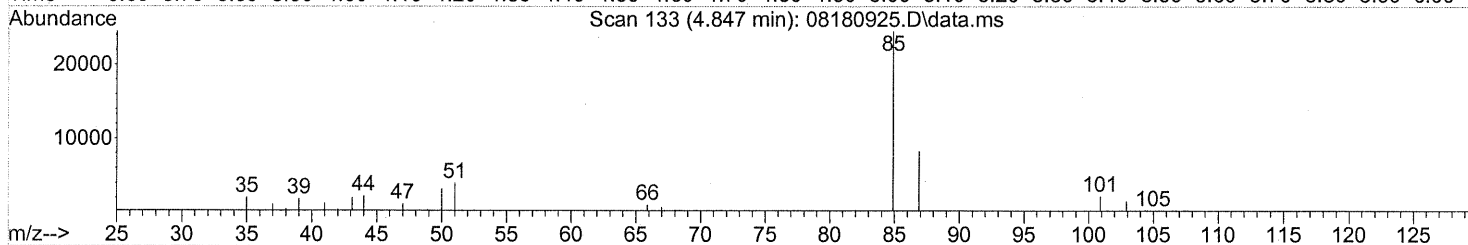
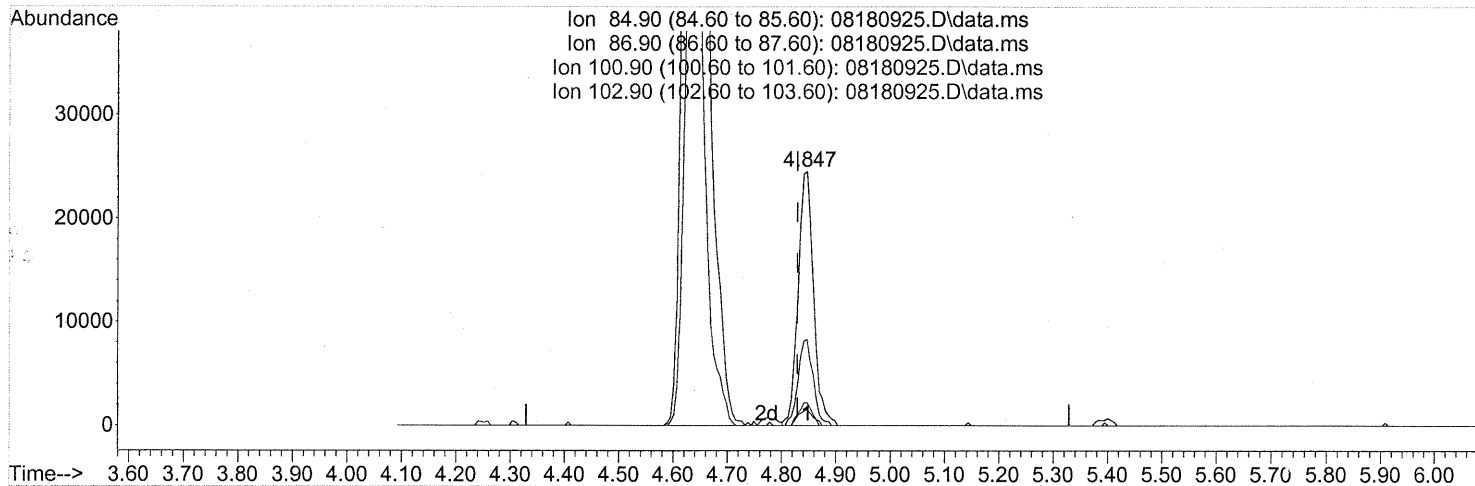
FP

WA 8/22/09 em 8/25/09

Quantitation Report (Qedit)

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(3) Dichlorodifluoromethane (CFC 12) (T)

4.847min (+0.017) 1.59ng

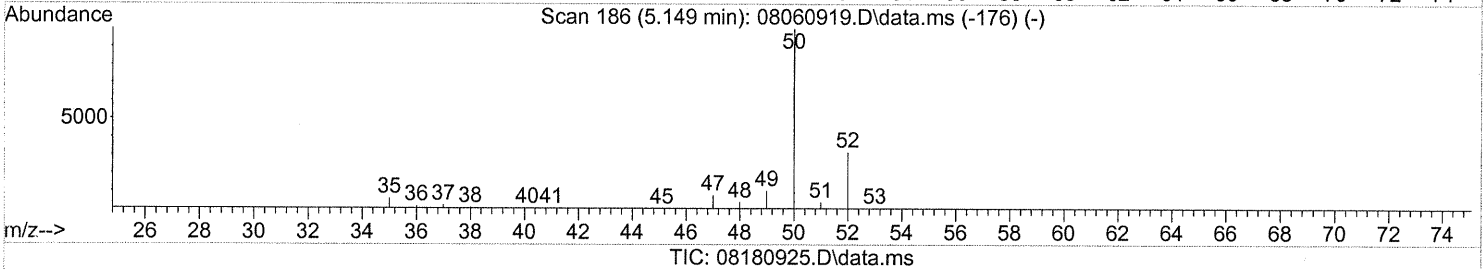
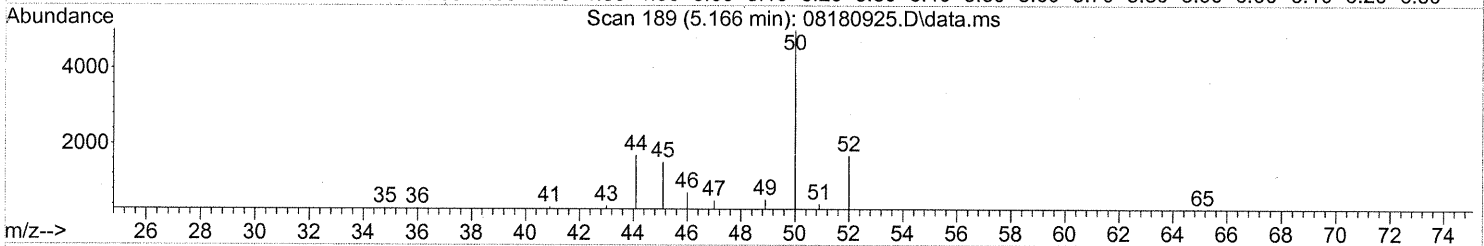
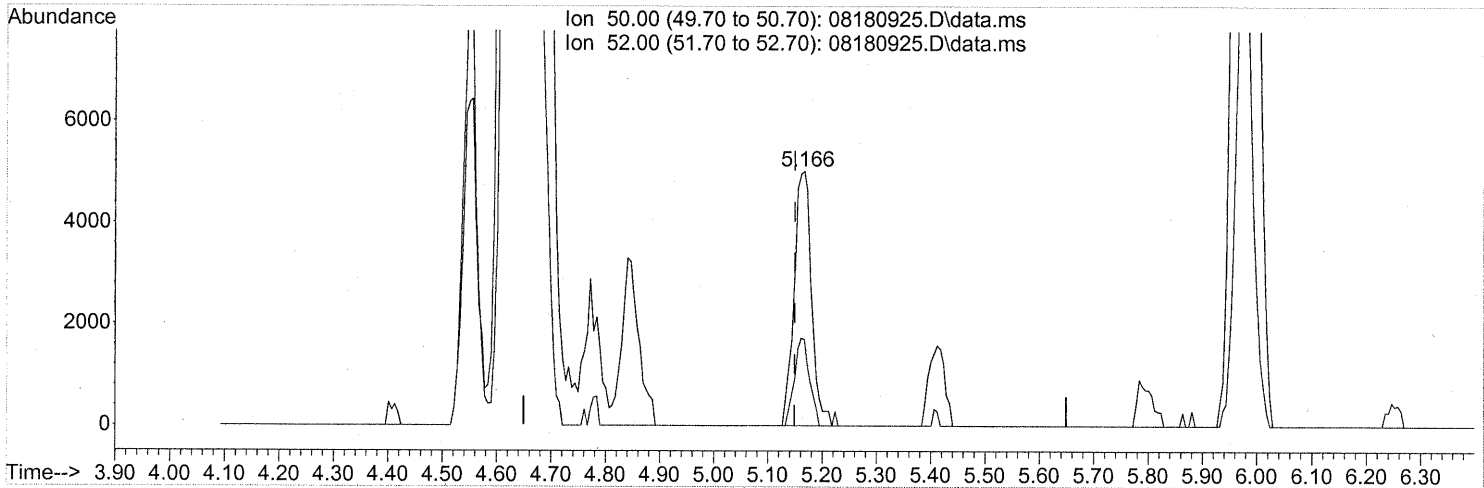
response 48424

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	33.00
100.90	8.80	8.08
102.90	5.20	5.67

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(4) Chloromethane (T)

5.166min (+0.017) 0.55ng

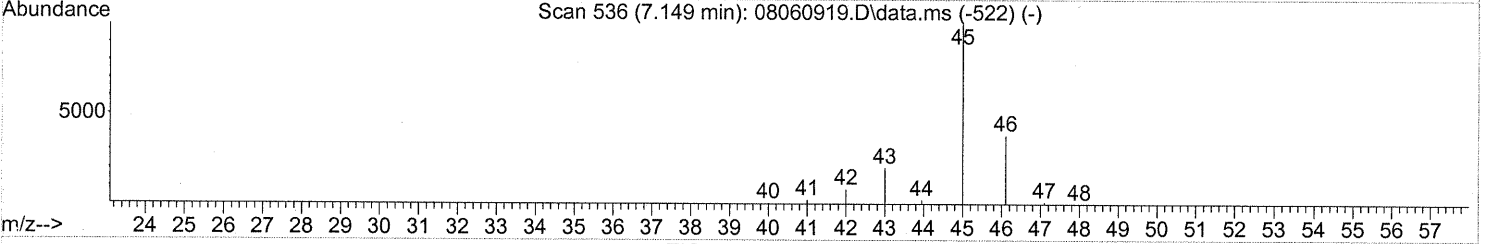
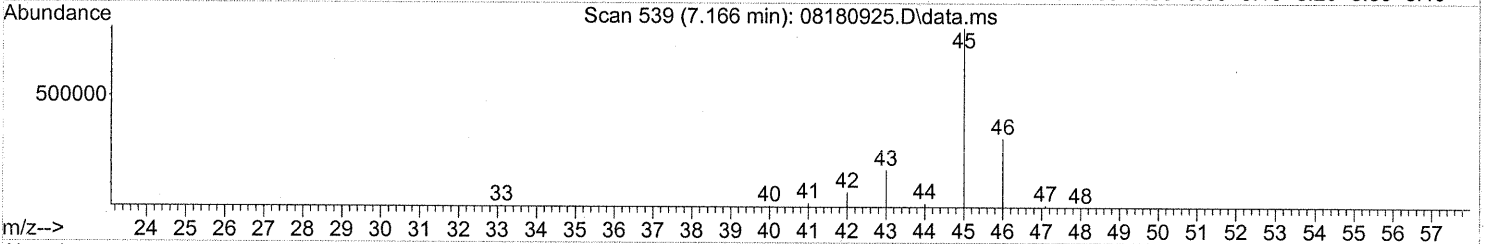
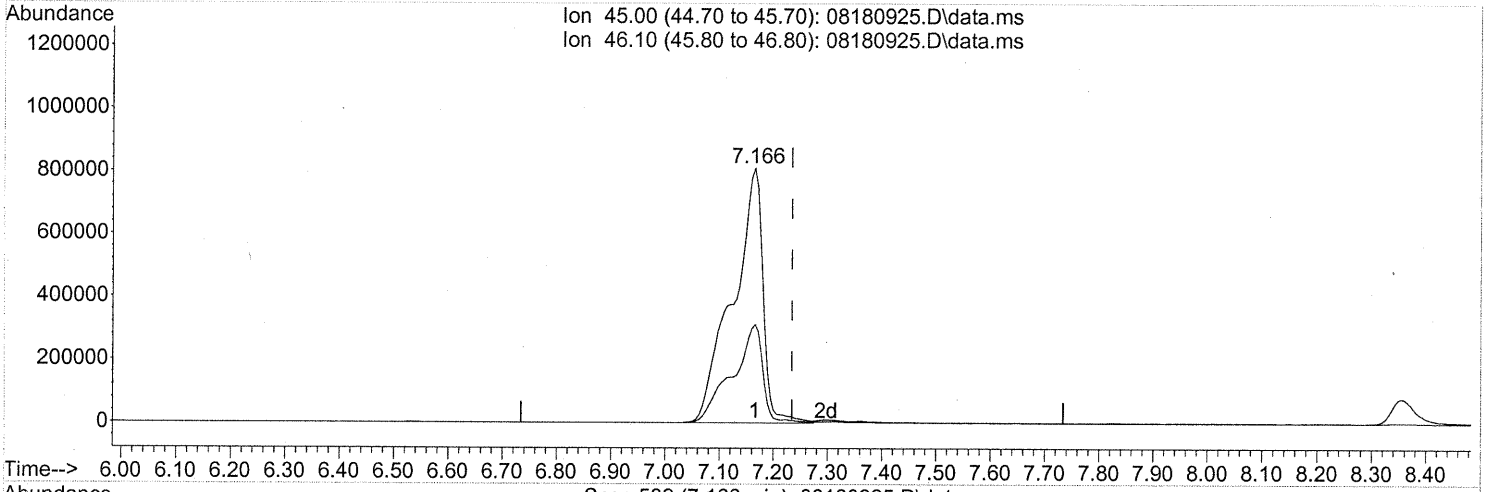
response 11262

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.56
0.00	0.00	0.00
0.00	0.00	0.00

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TIC: 08180925.D\data.ms

(10) Ethanol (T)

7.166min (-0.069) 265.21ng

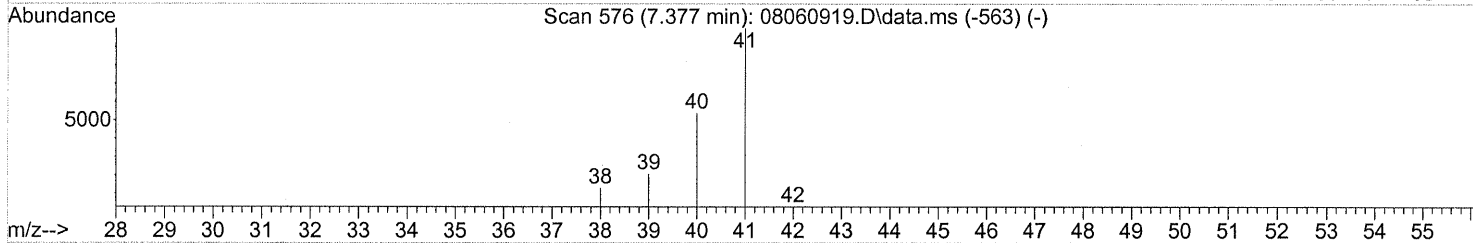
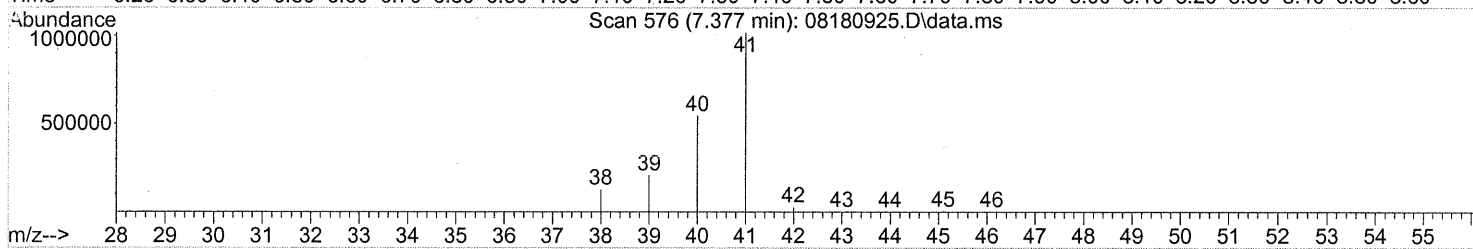
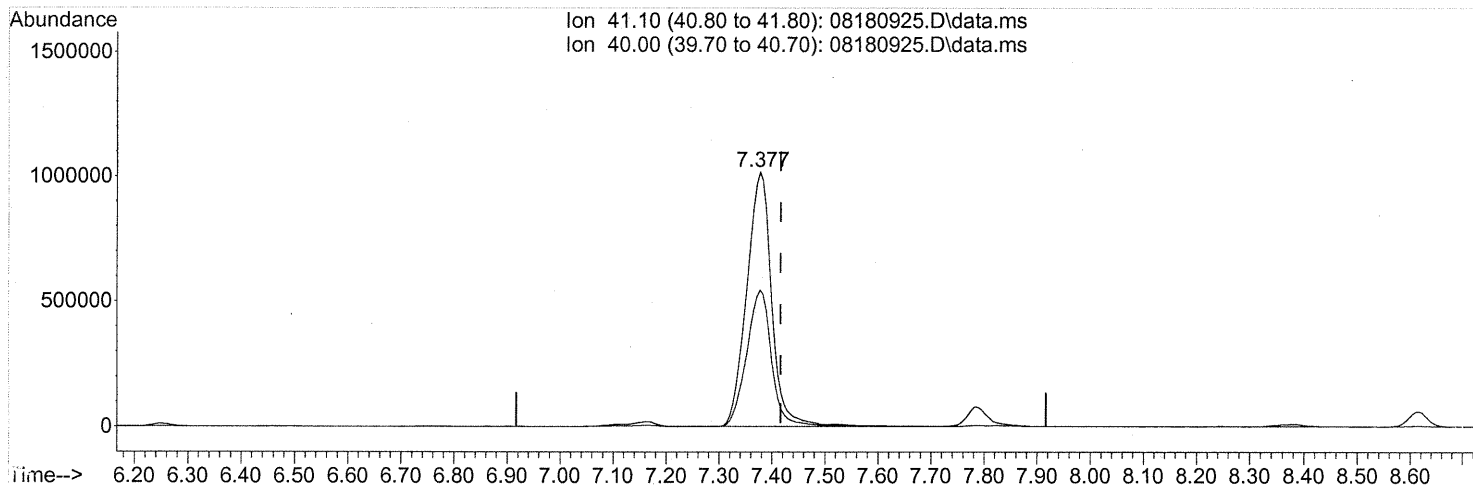
response 3140448

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.72
0.00	0.00	0.00
0.00	0.00	0.00

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TIC: 08180925.D\data.ms

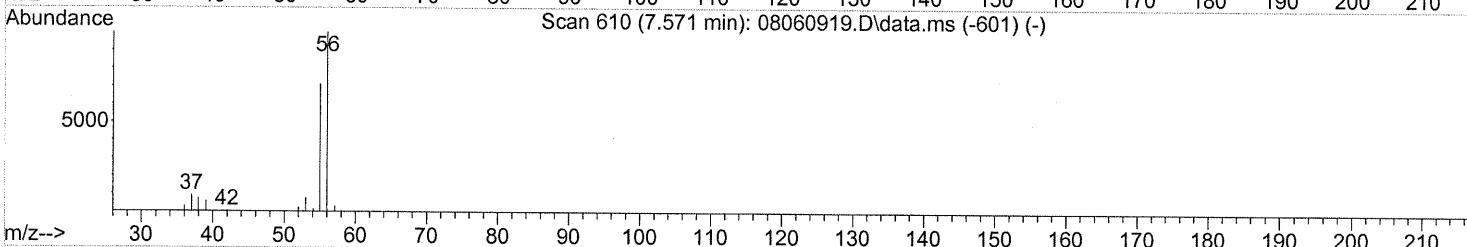
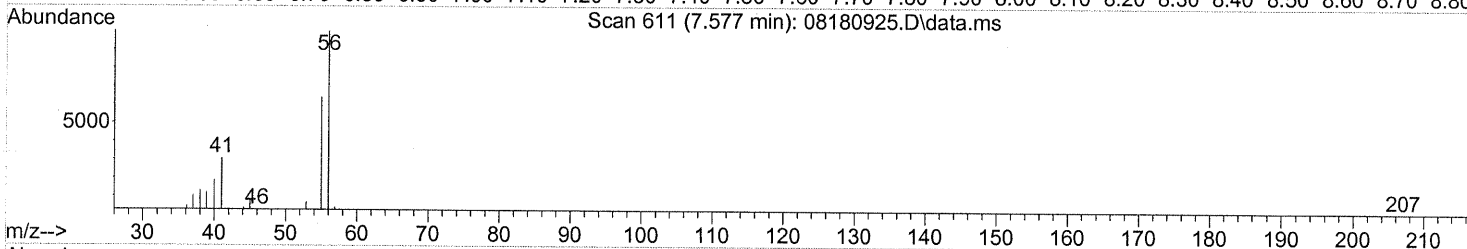
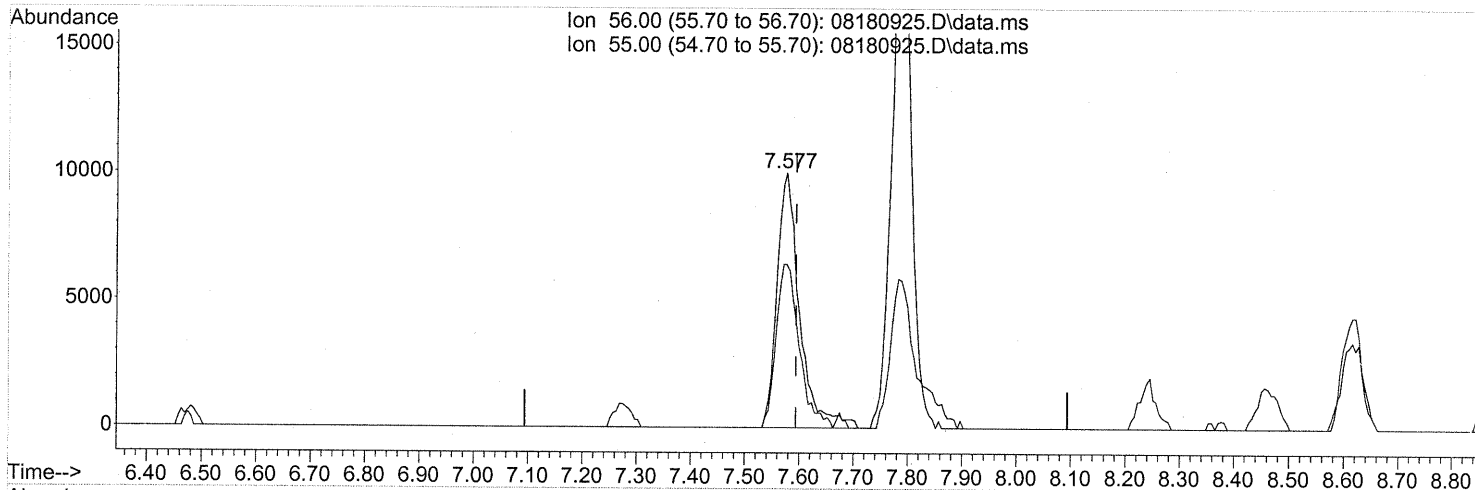
(11) Acetonitrile (T)
 7.377min (-0.040) 96.56ng
 response 3348477

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.48
0.00	0.00	0.00
0.00	0.00	0.00

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TIC: 08180925.D\data.ms

(12) Acrolein (T)

7.577min (-0.017) 3.20ng

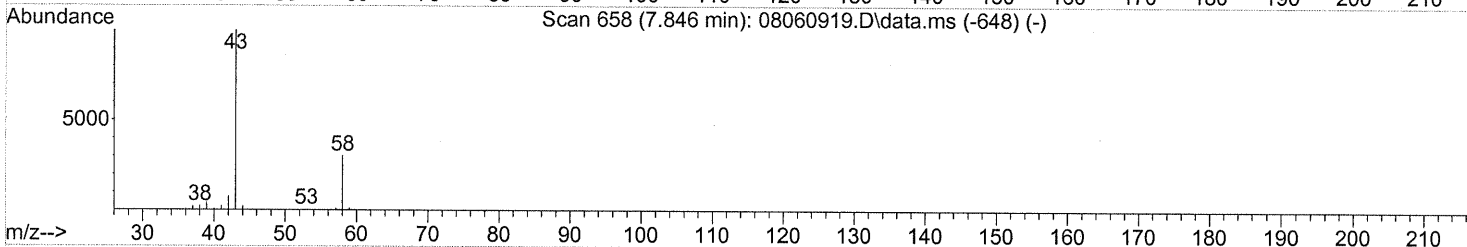
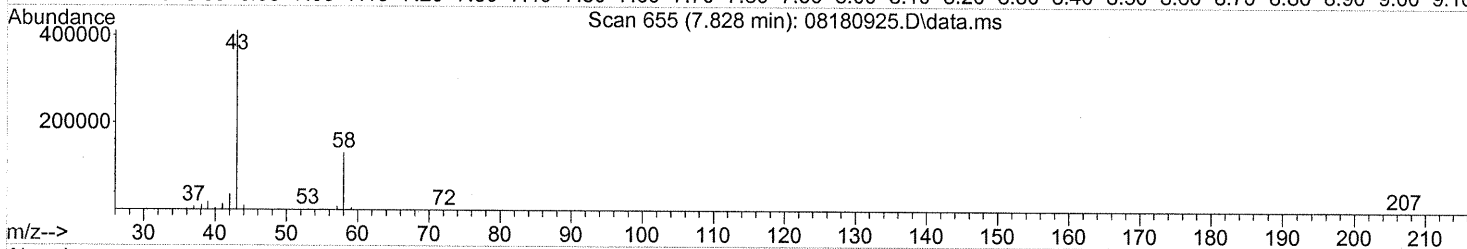
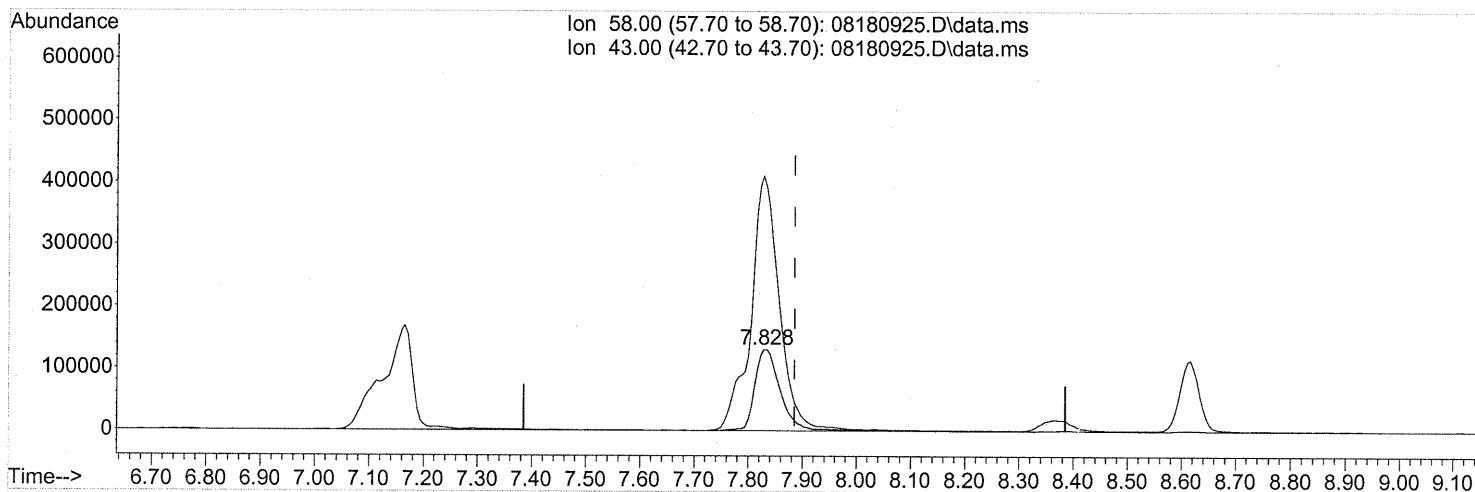
response 28886

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	65.77
0.00	0.00	0.00
0.00	0.00	0.00

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TIC: 08180925.D\data.ms

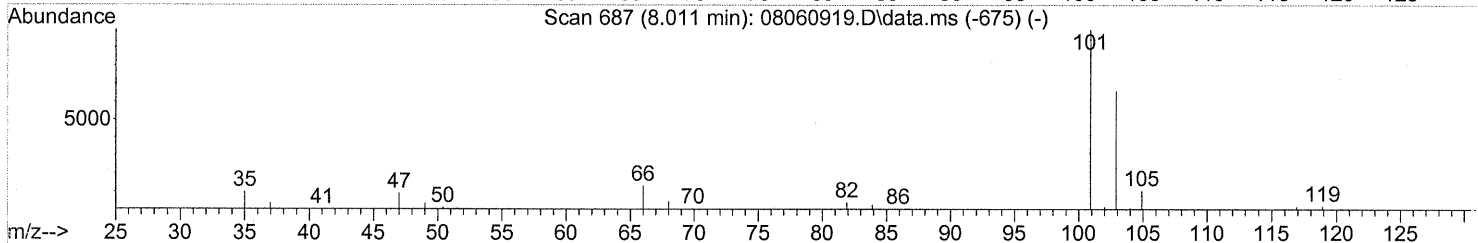
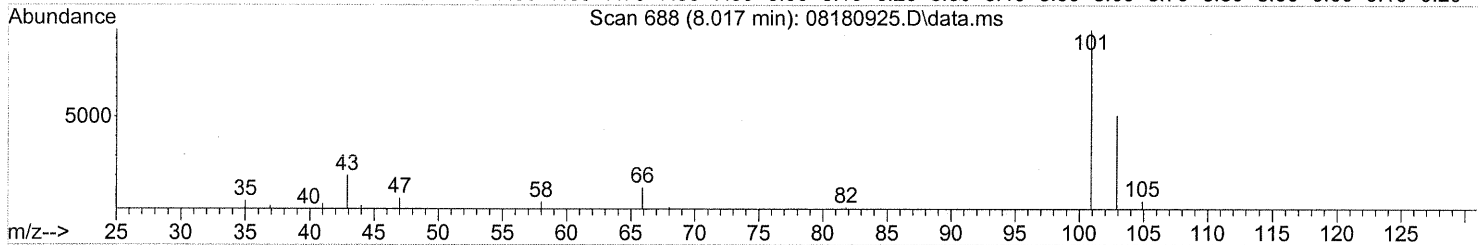
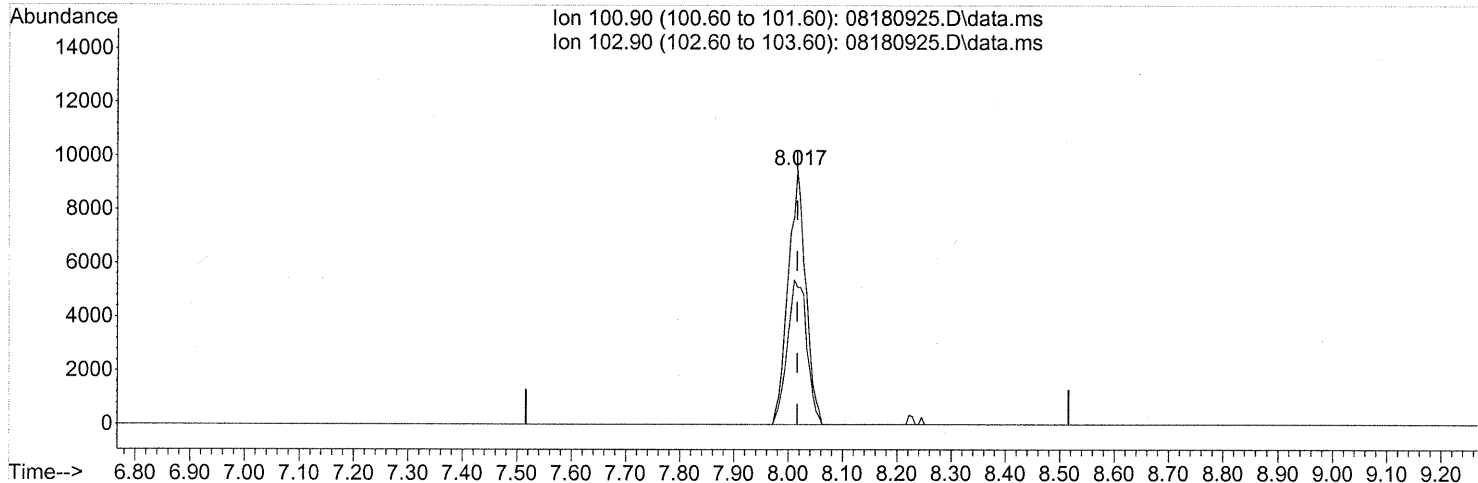
(13) Acetone (T)
 7.828min (-0.058) 38.51ng
 response 430297

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	352.49
0.00	0.00	0.00
0.00	0.00	0.00

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 Response via : Initial Calibration



TIC: 08180925.D\data.ms

(14) Trichlorofluoromethane (T)

8.017min (+0.000) 0.77ng

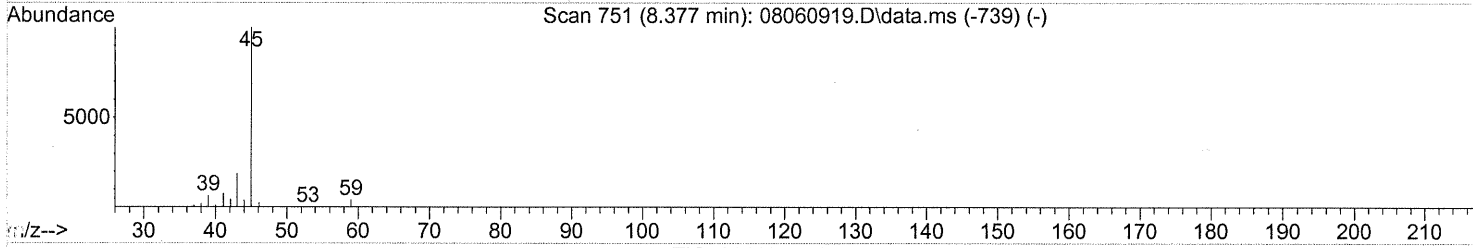
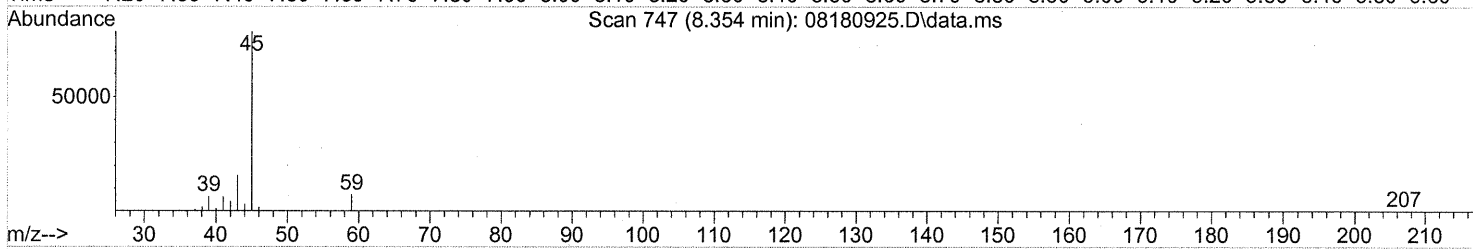
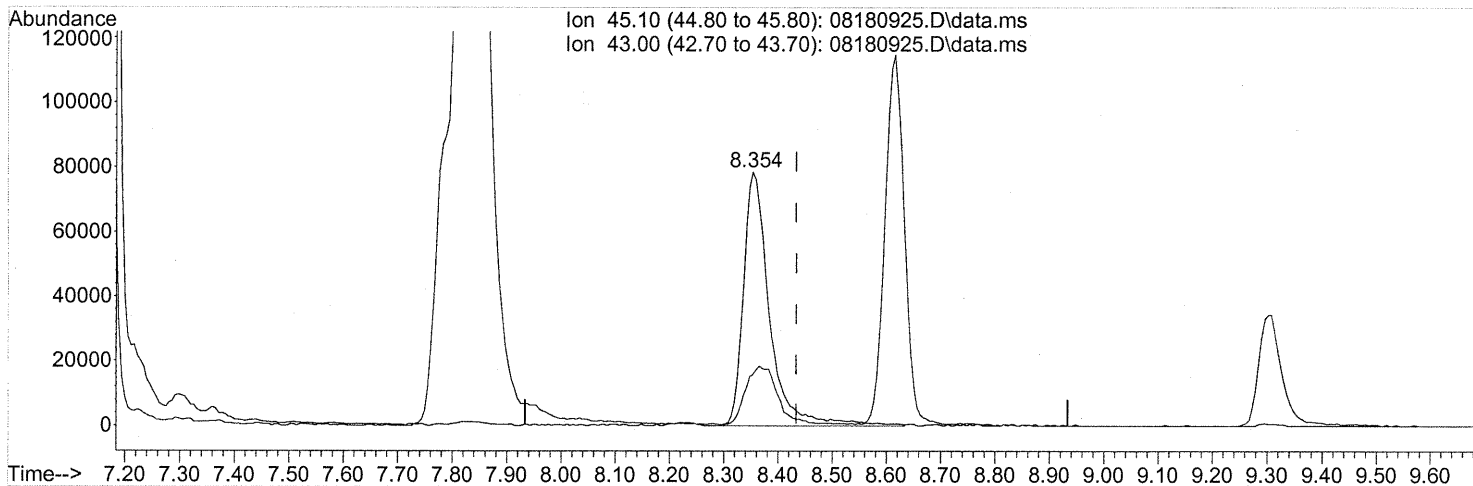
response 21299

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	62.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

8.354min (-0.080) 5.92ng

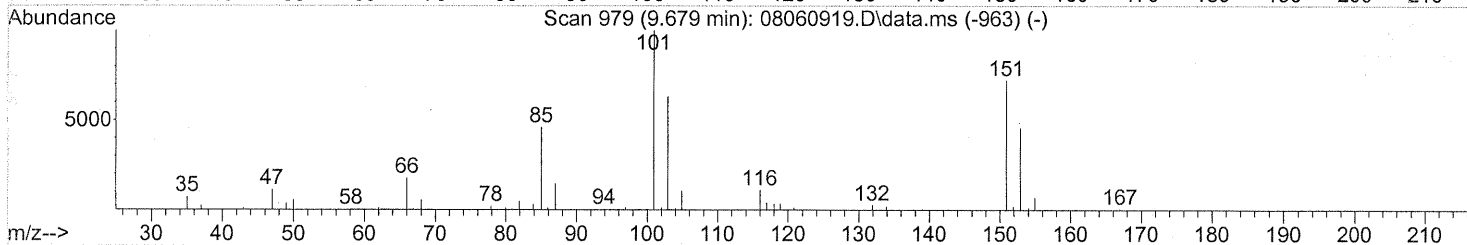
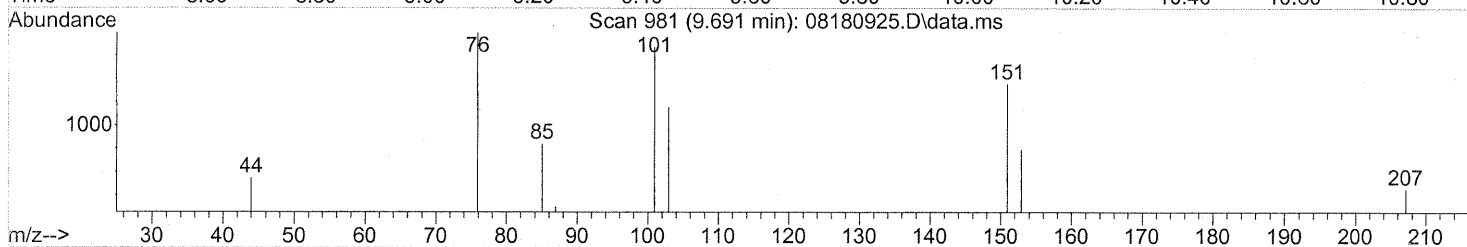
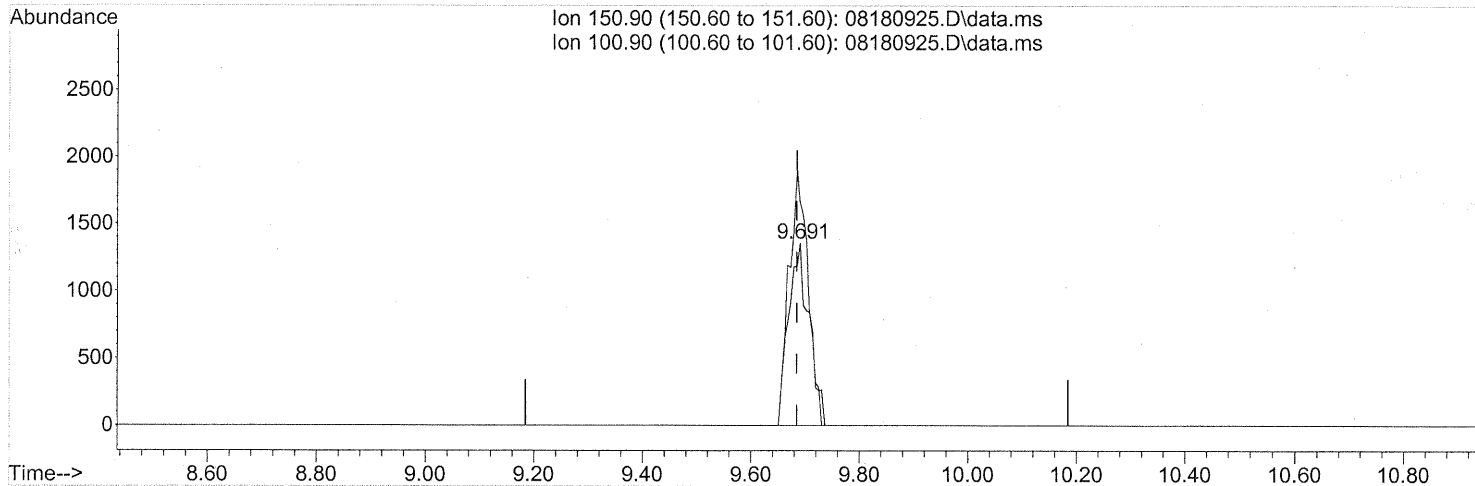
response 259947

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	29.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 24 17:53:12 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.691min (+0.006) 0.36ng

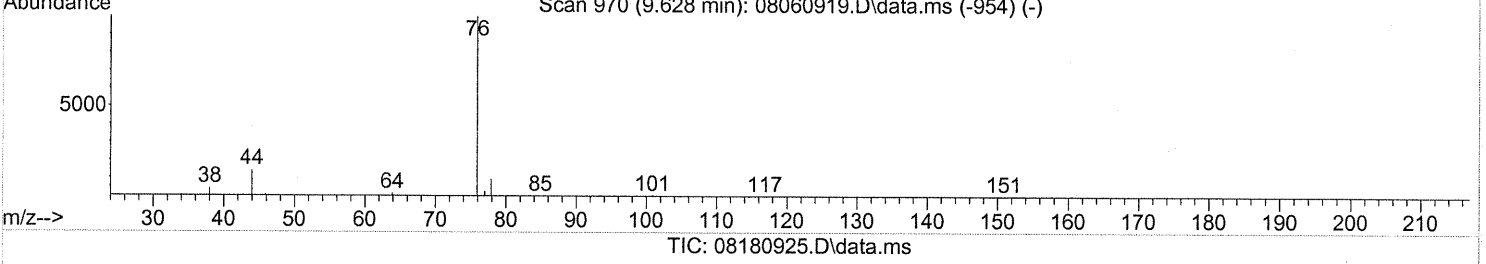
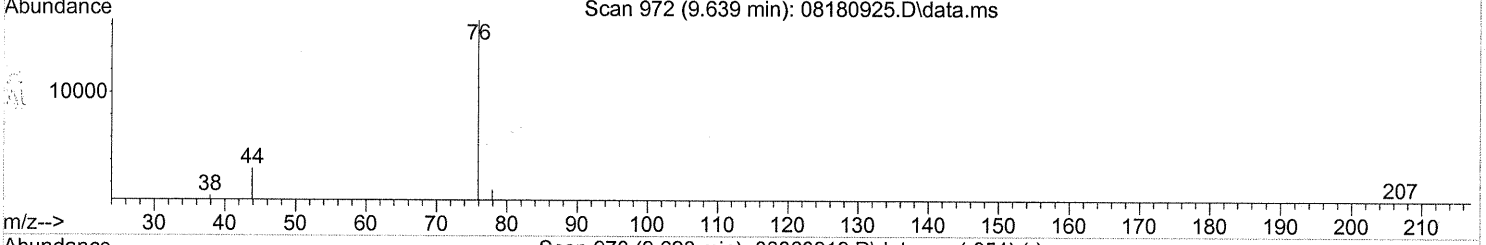
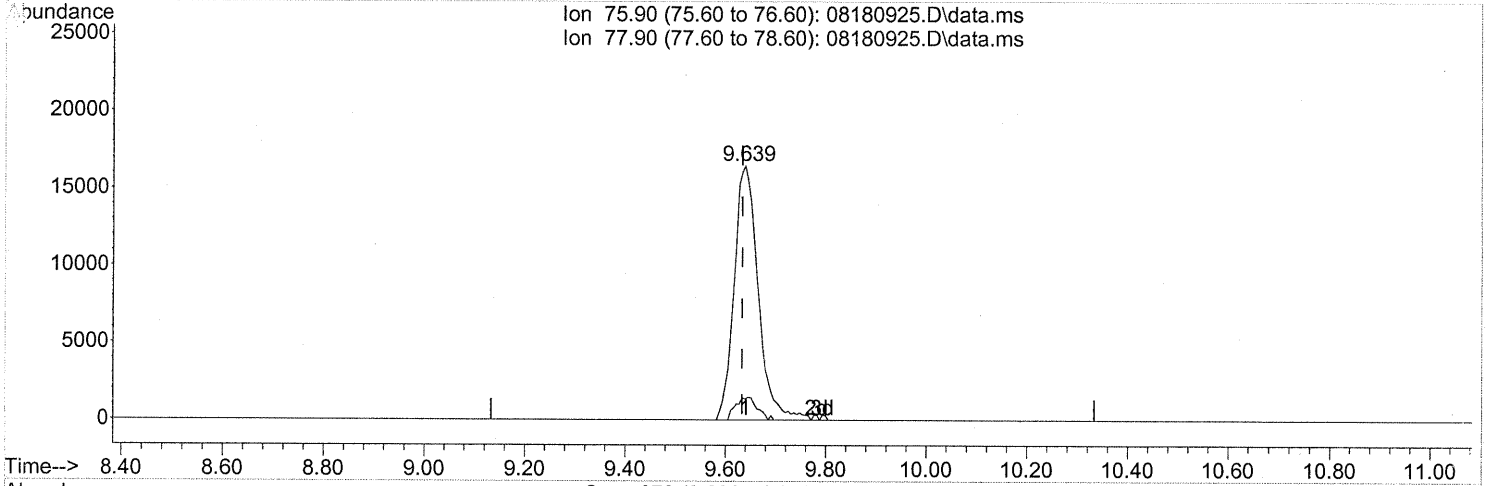
response 3574

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	127.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



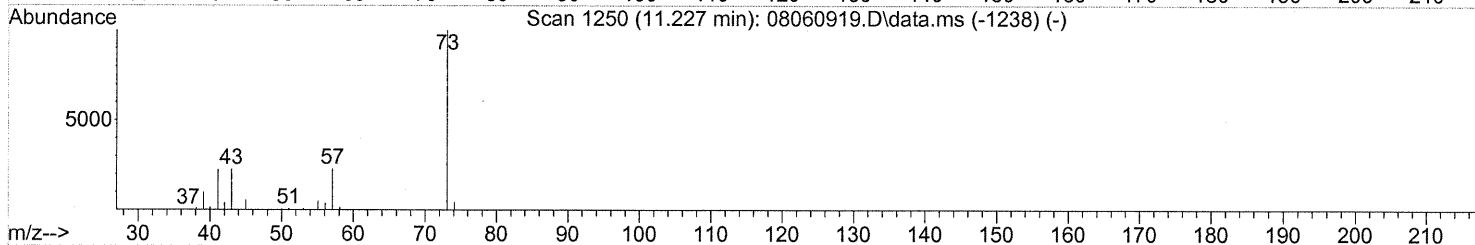
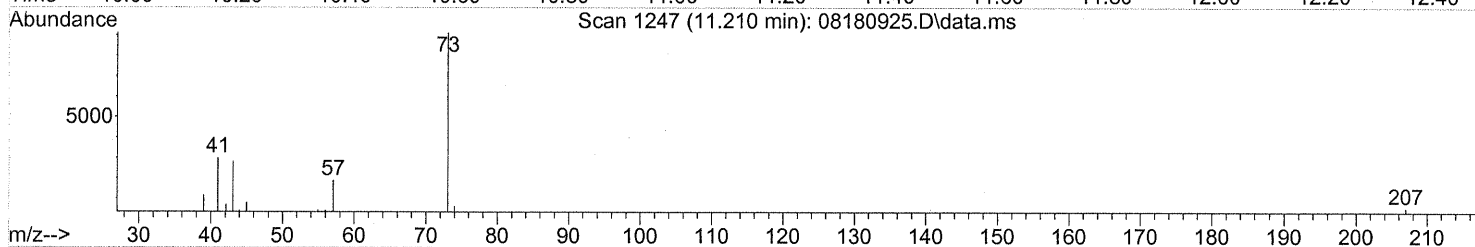
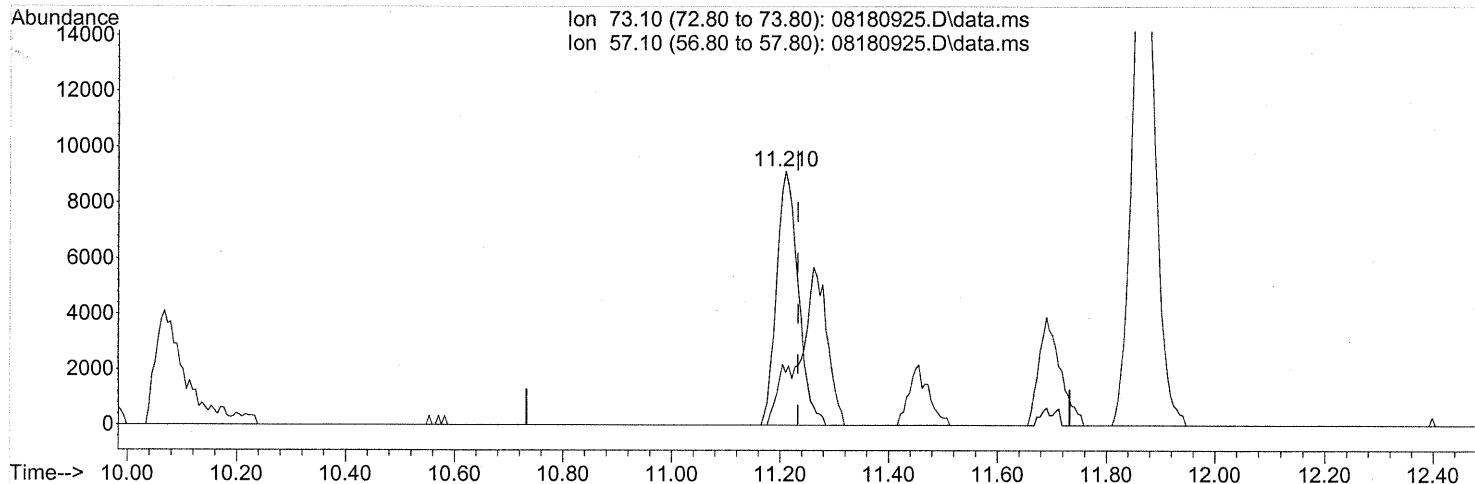
(22) Carbon Disulfide (T)
 9.639min (+0.006) 1.03ng
 response 54354

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	7.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
Data File : 08180925.D
Acq On : 19 Aug 2009 7:19
Operator : WA
Sample : P0902766-003 (1000mL)
Misc : Env. Health & Engineering 101162
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08180925.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.210min (-0.023) 0.60ng

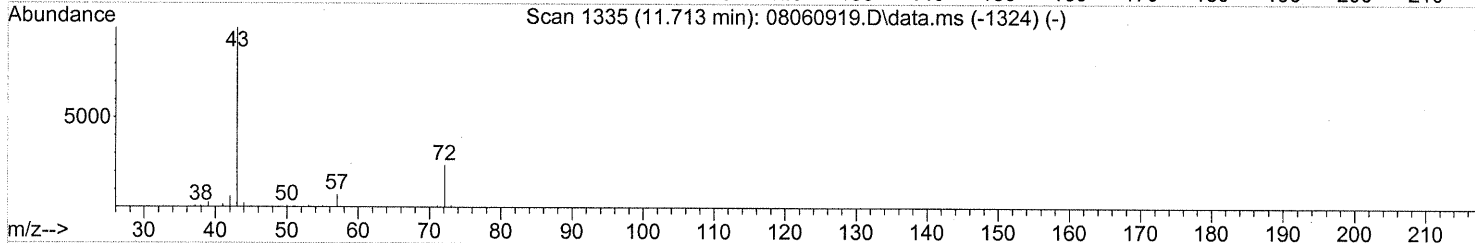
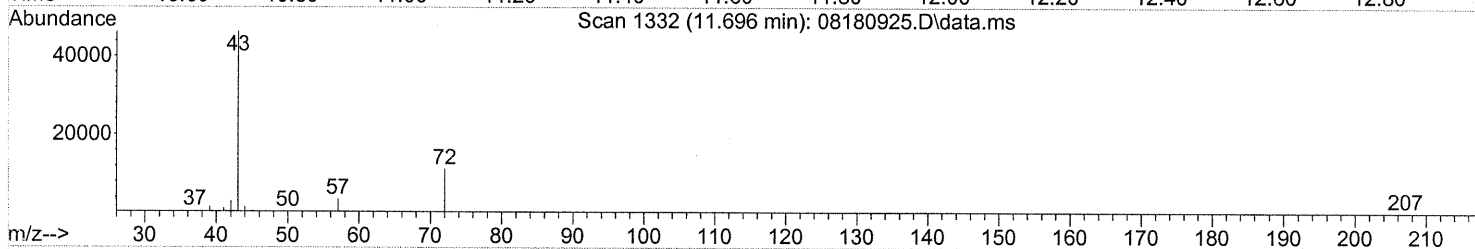
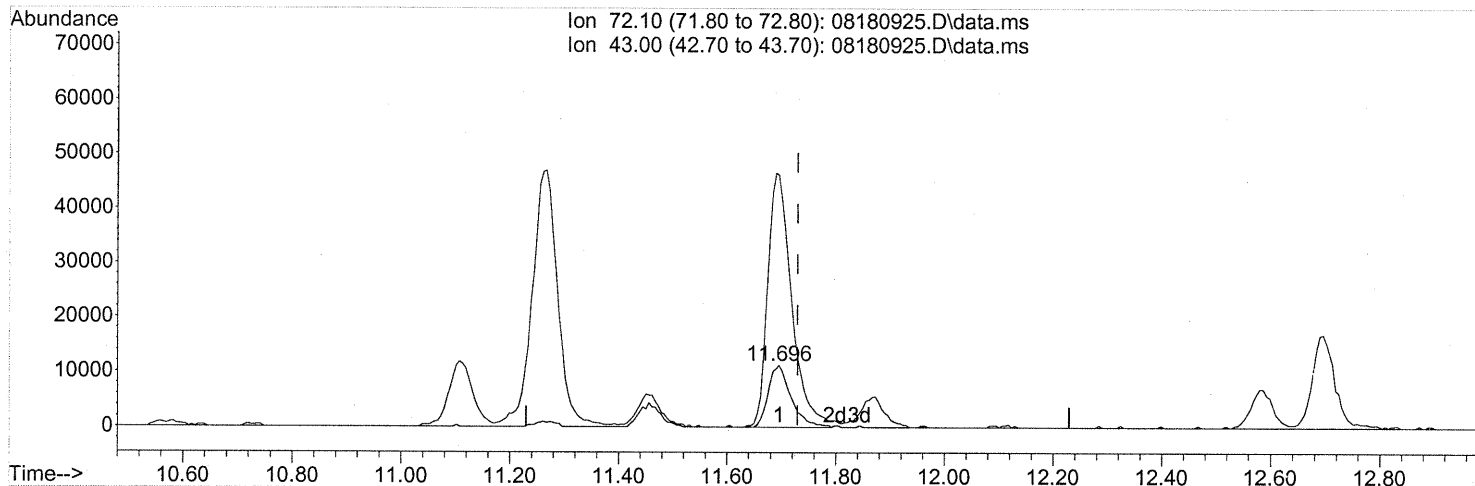
response 25480

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	21.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

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

11.696min (-0.034) 3.23ng

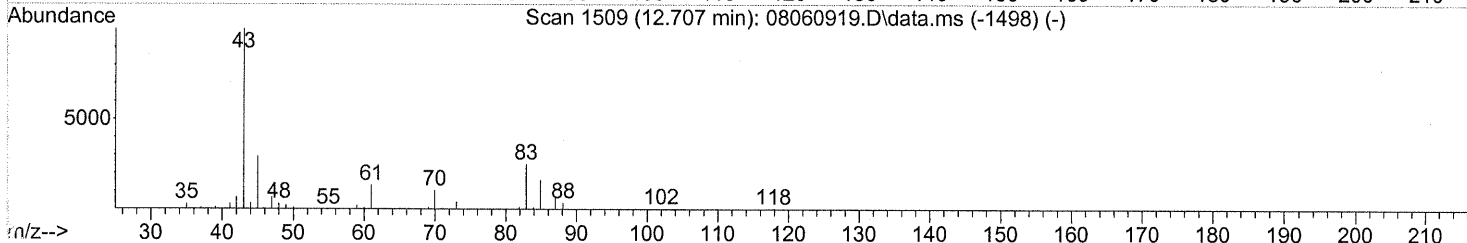
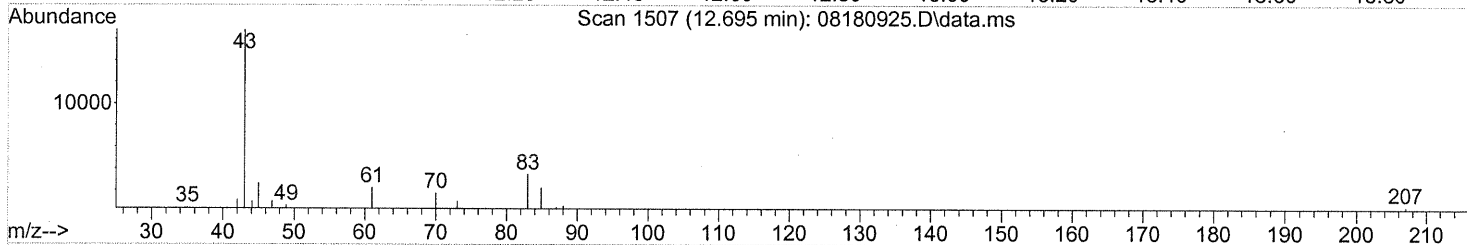
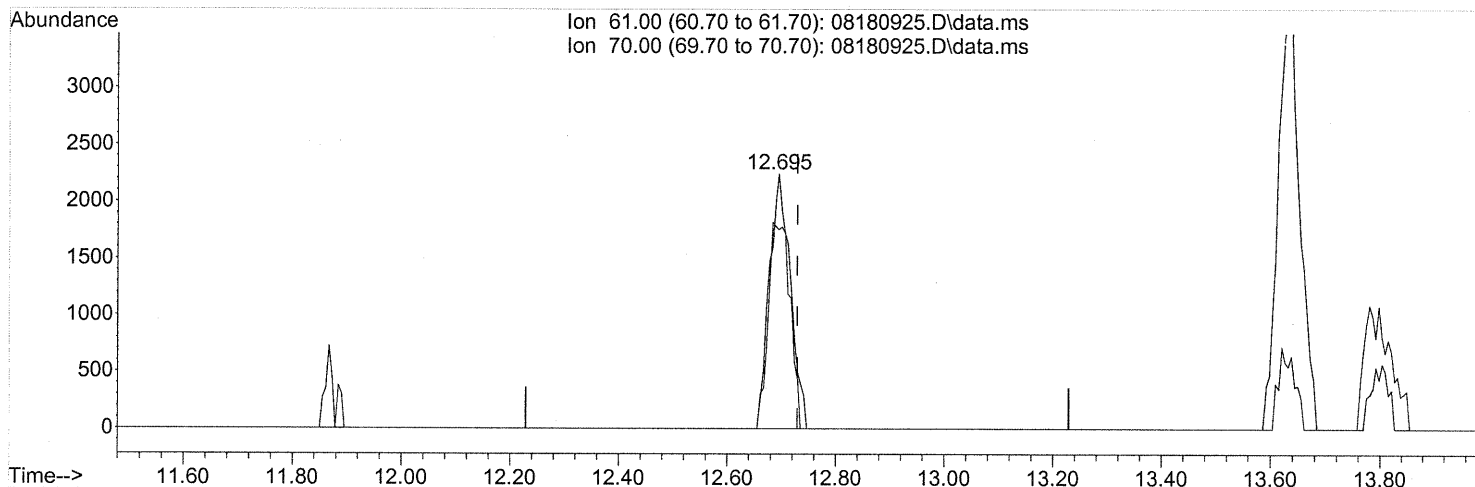
response 32632

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	439.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

(30) Ethyl Acetate (T)

12.695min (-0.034) 1.15ng

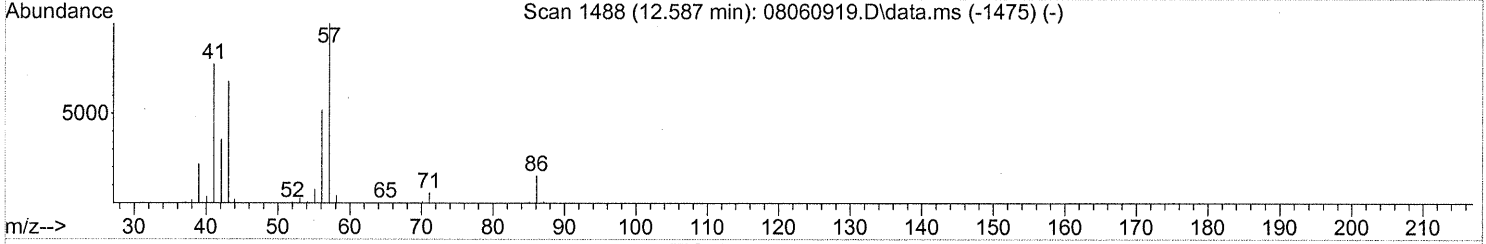
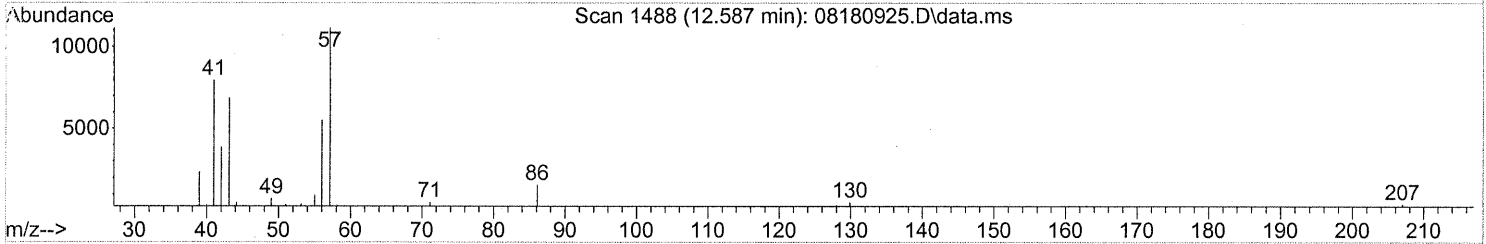
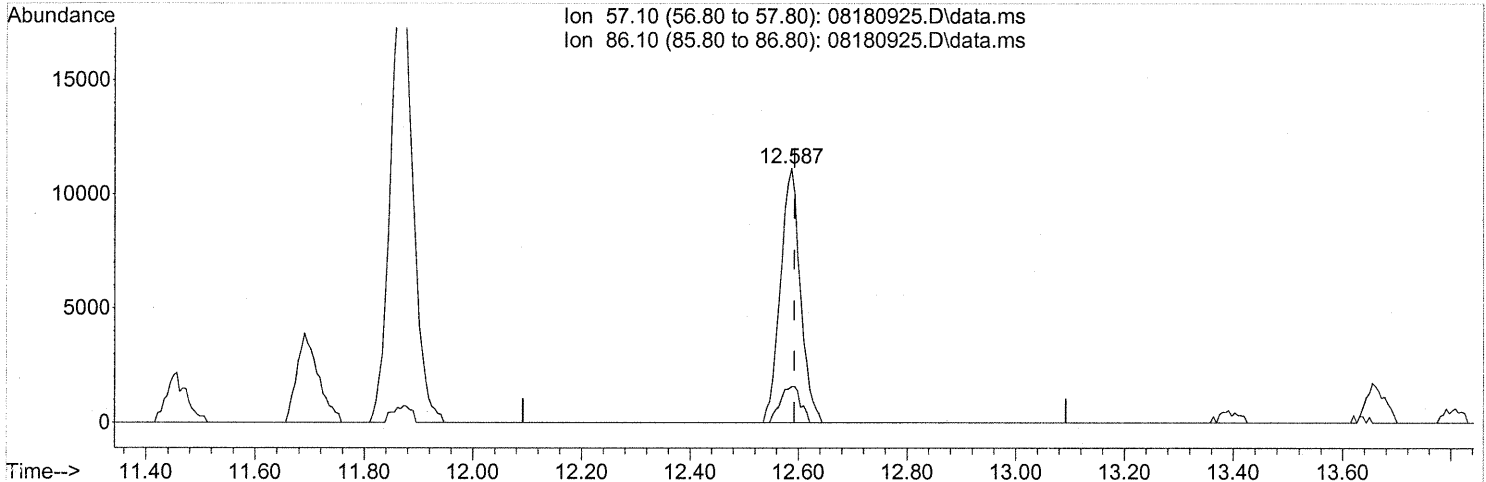
response 6038

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	83.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

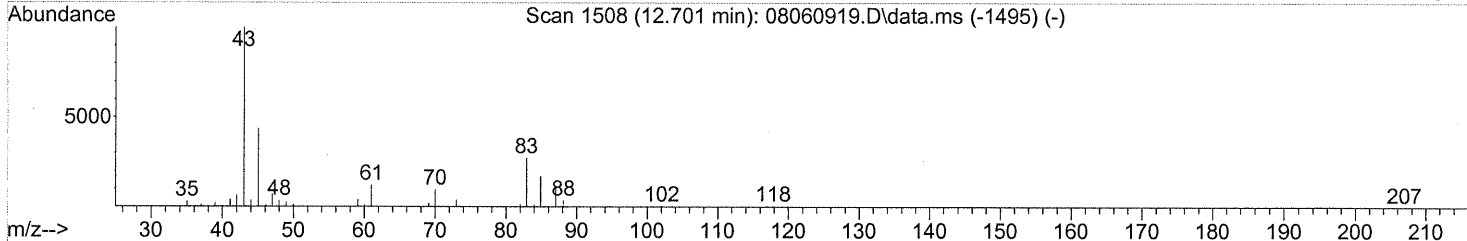
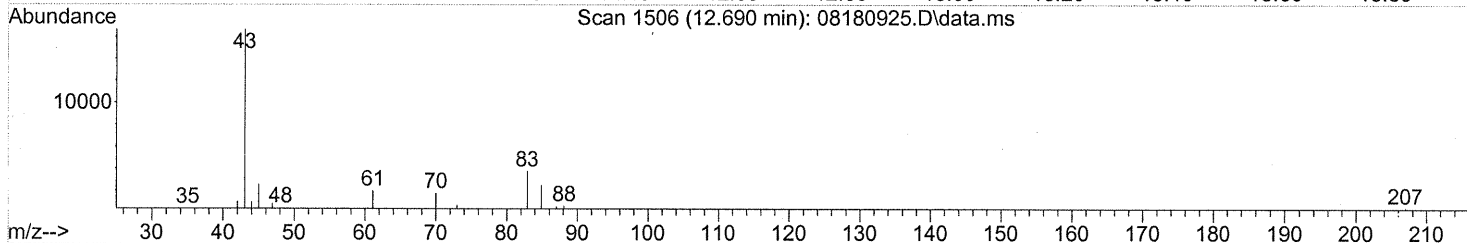
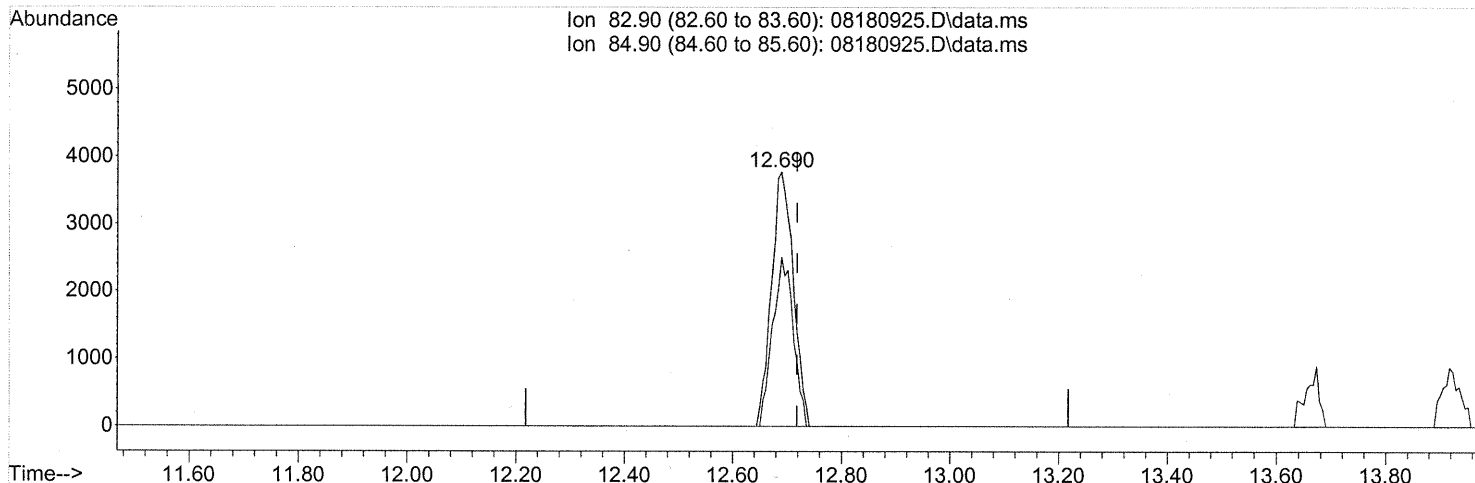
(31) n-Hexane (T)
 12.587min (-0.006) 1.05ng
 response 28354

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	14.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

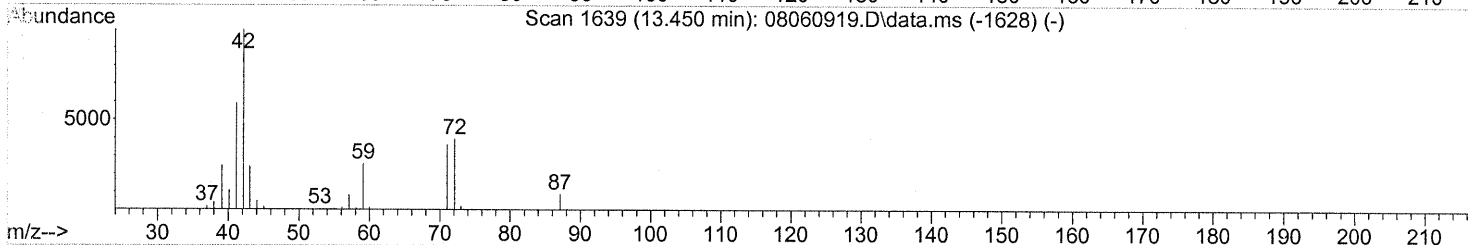
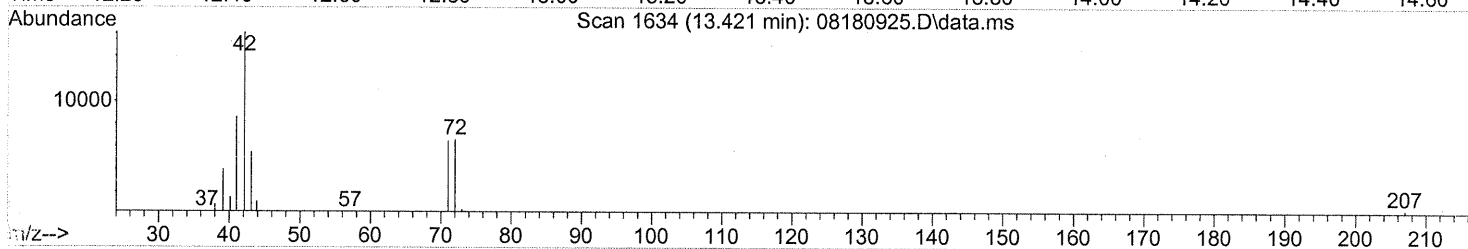
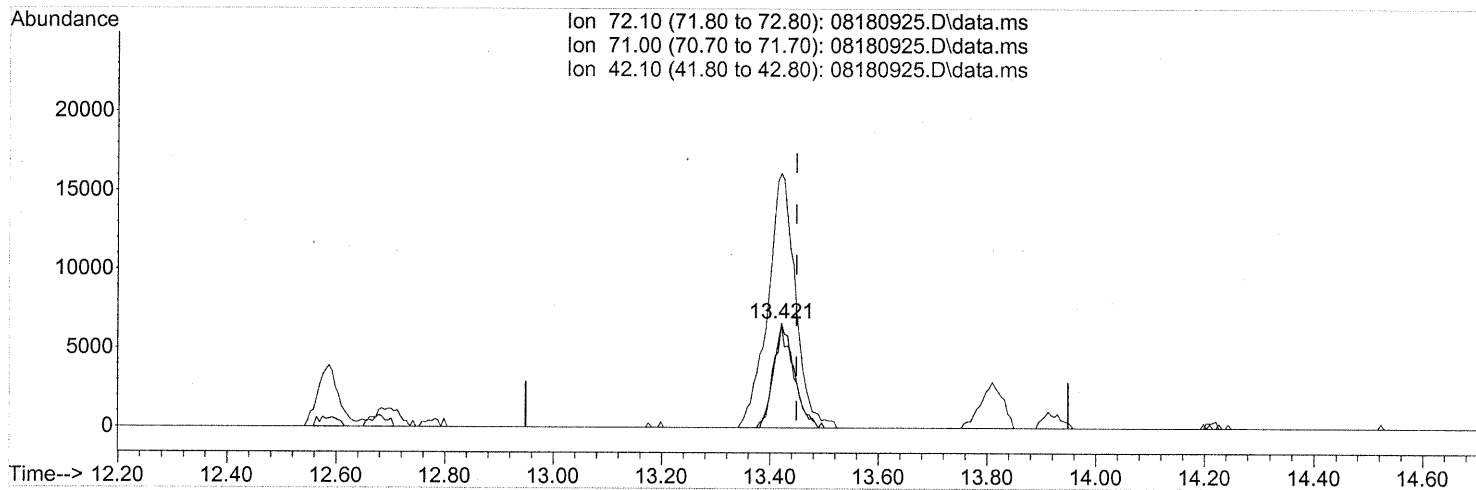
(32) Chloroform (T)
 12.690min (-0.029) 0.44ng
 response 10466

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	62.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.421min (-0.028) 1.63ng

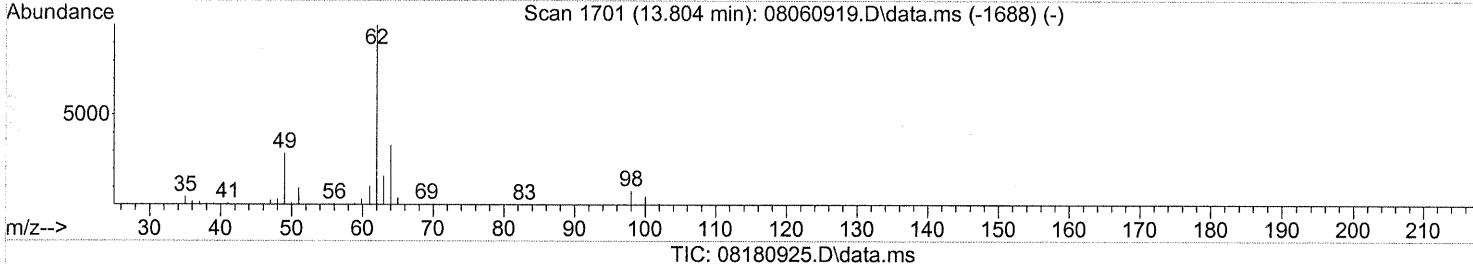
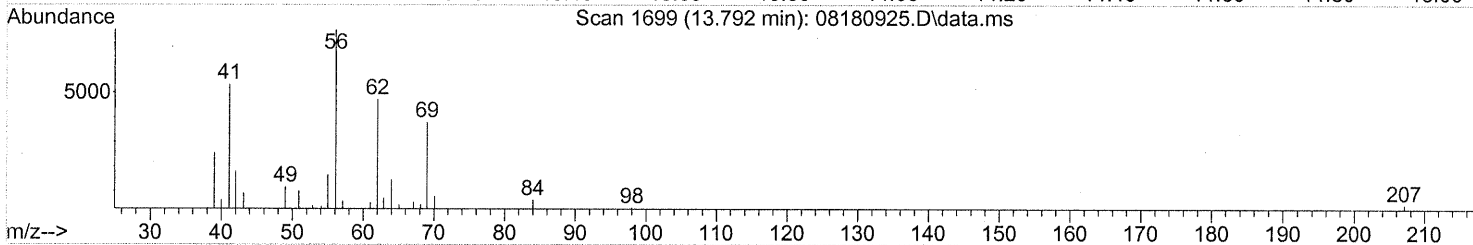
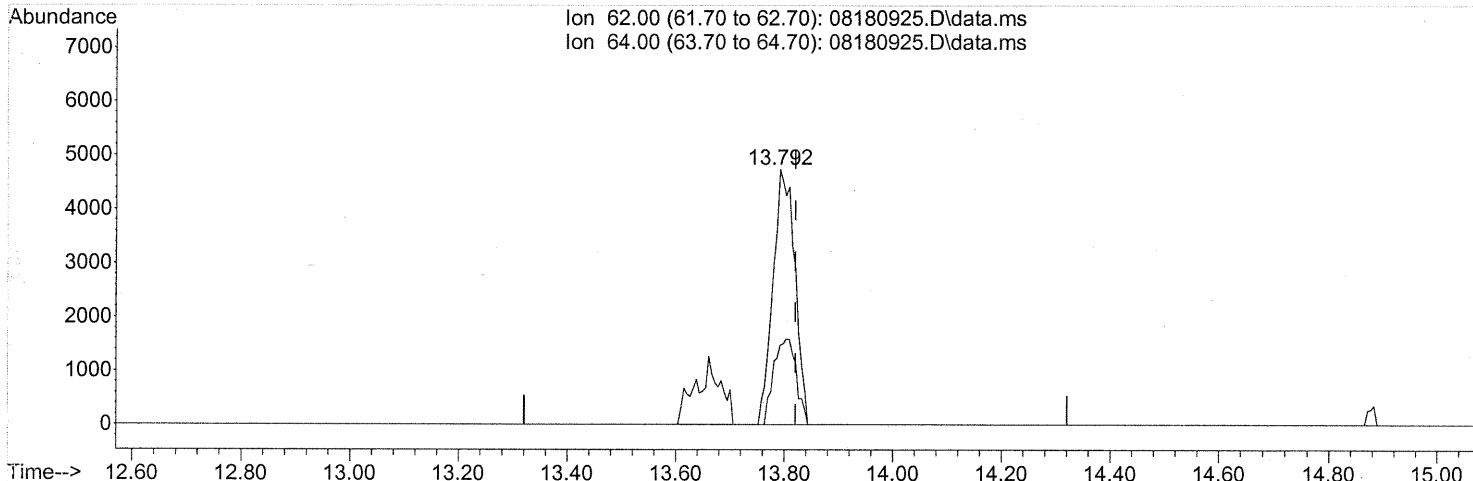
response 17493

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	96.68
42.10	253.40	325.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 0.61ng

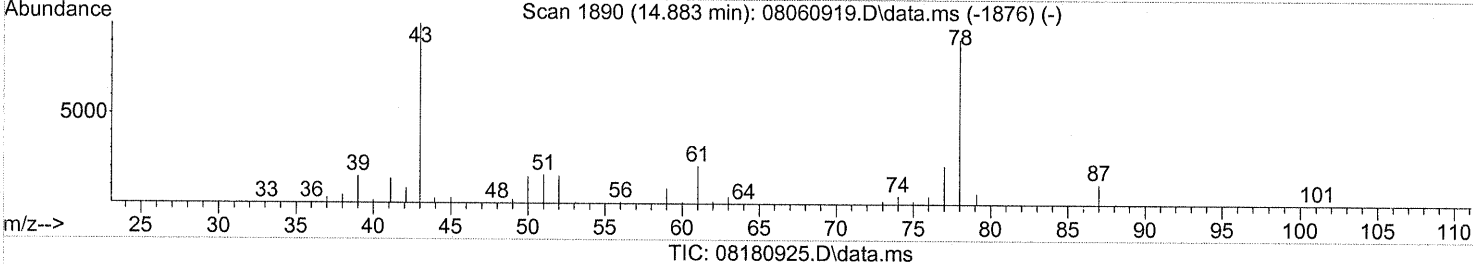
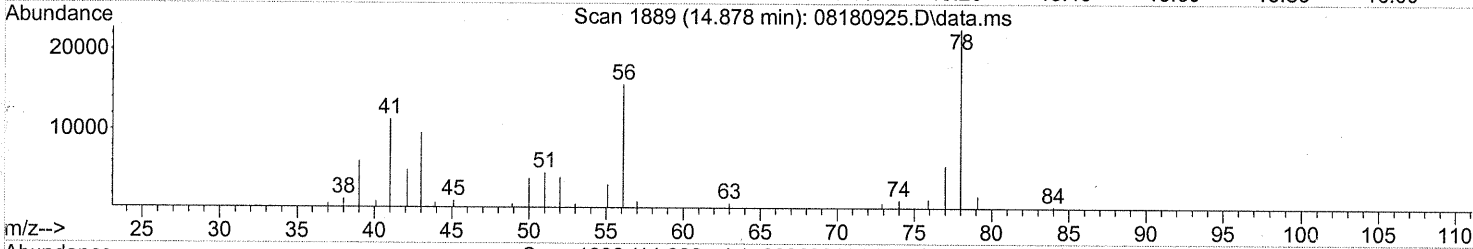
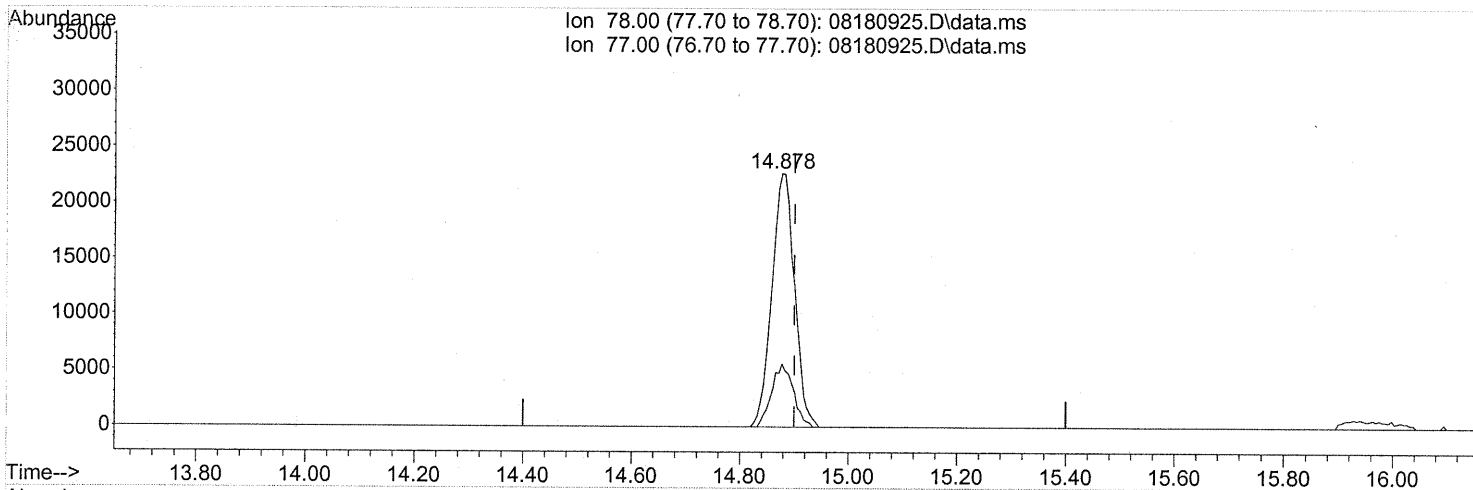
response 13219

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	34.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



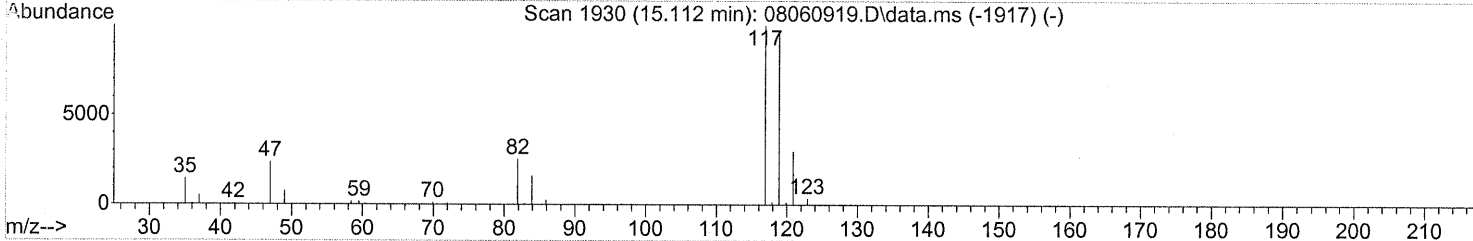
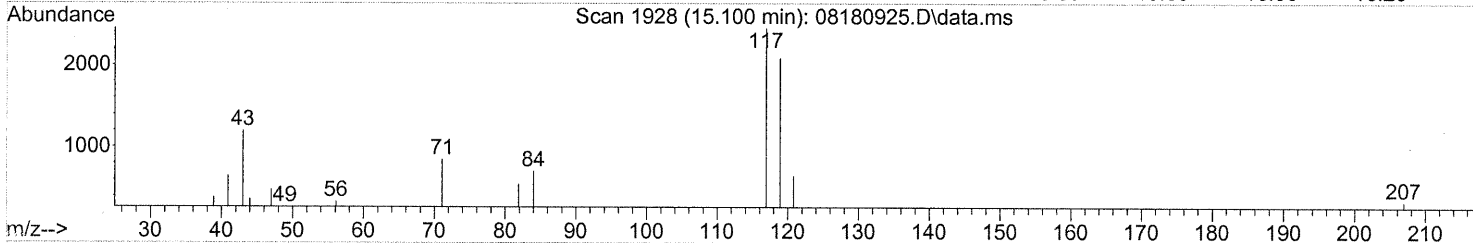
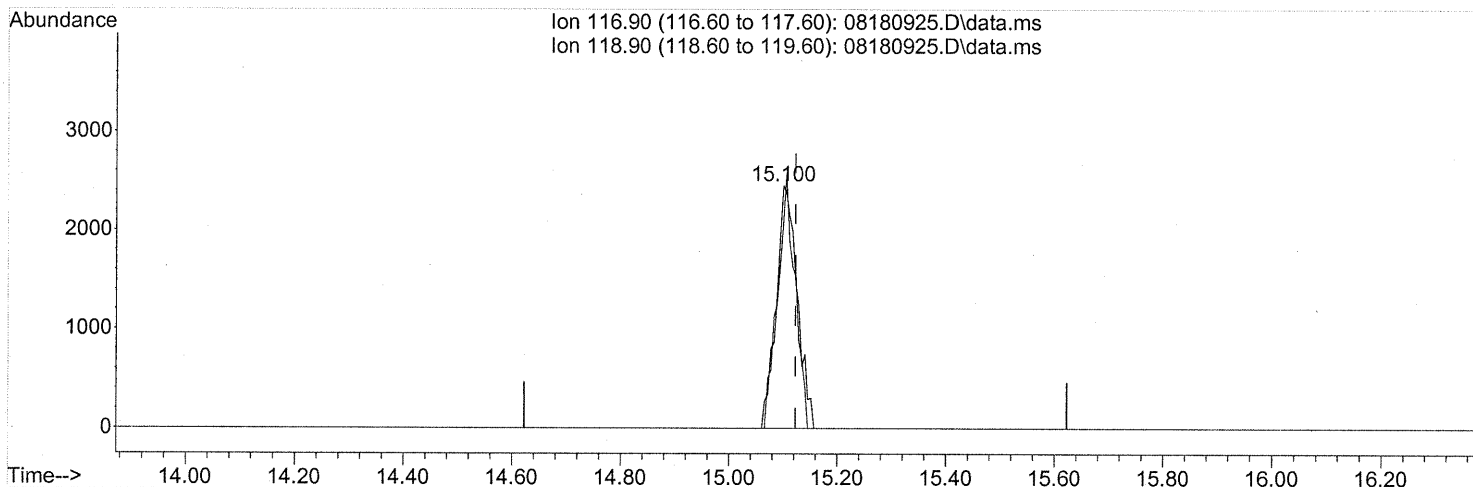
(41) Benzene (T)
 14.878min (-0.023) 1.09ng
 response 65583

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.34ng

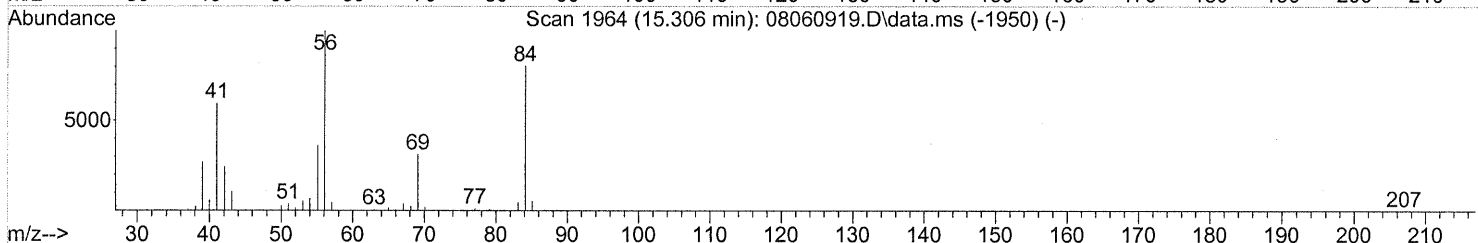
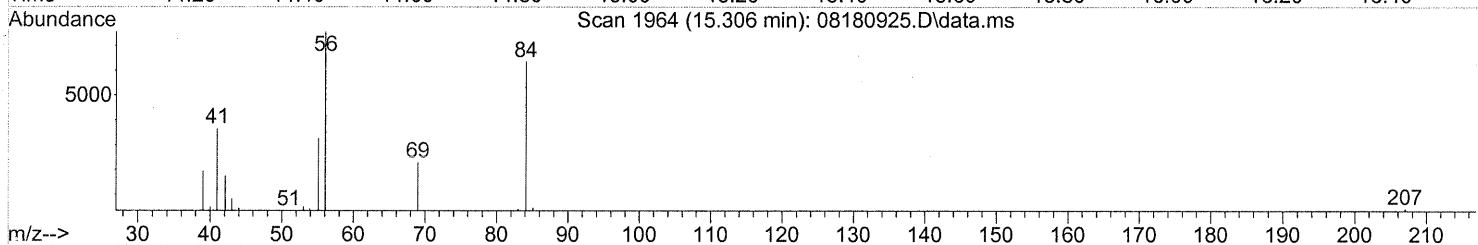
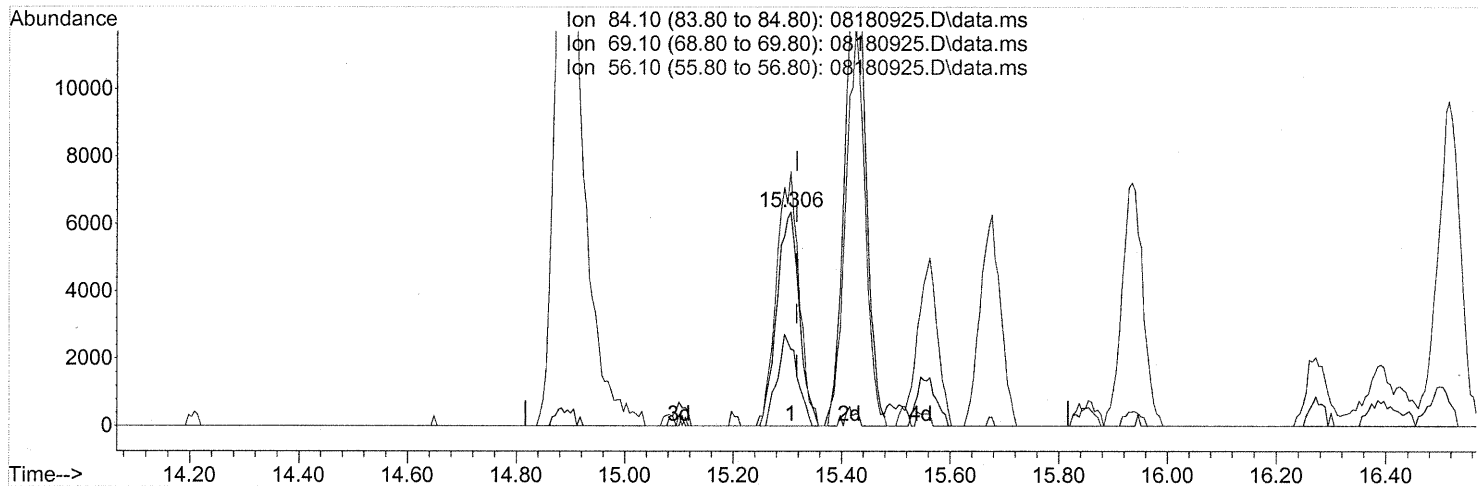
response 6547

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	87.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

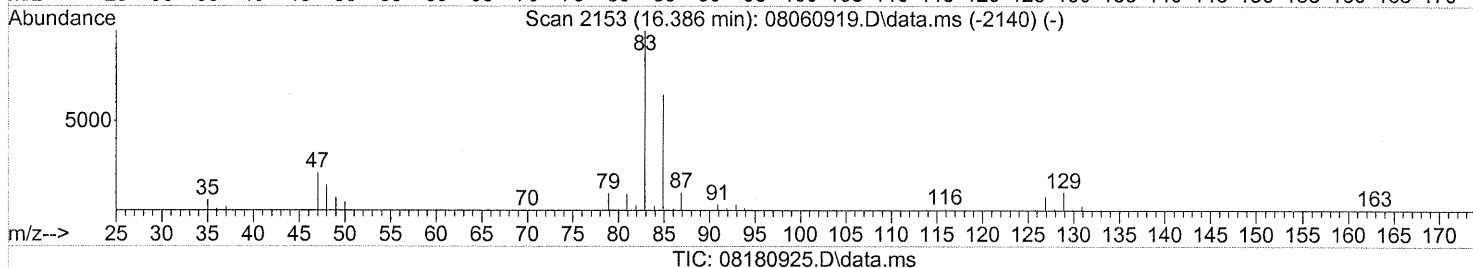
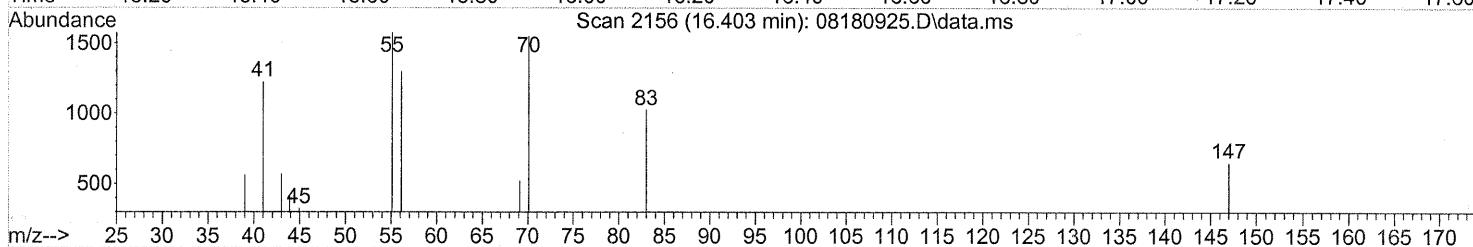
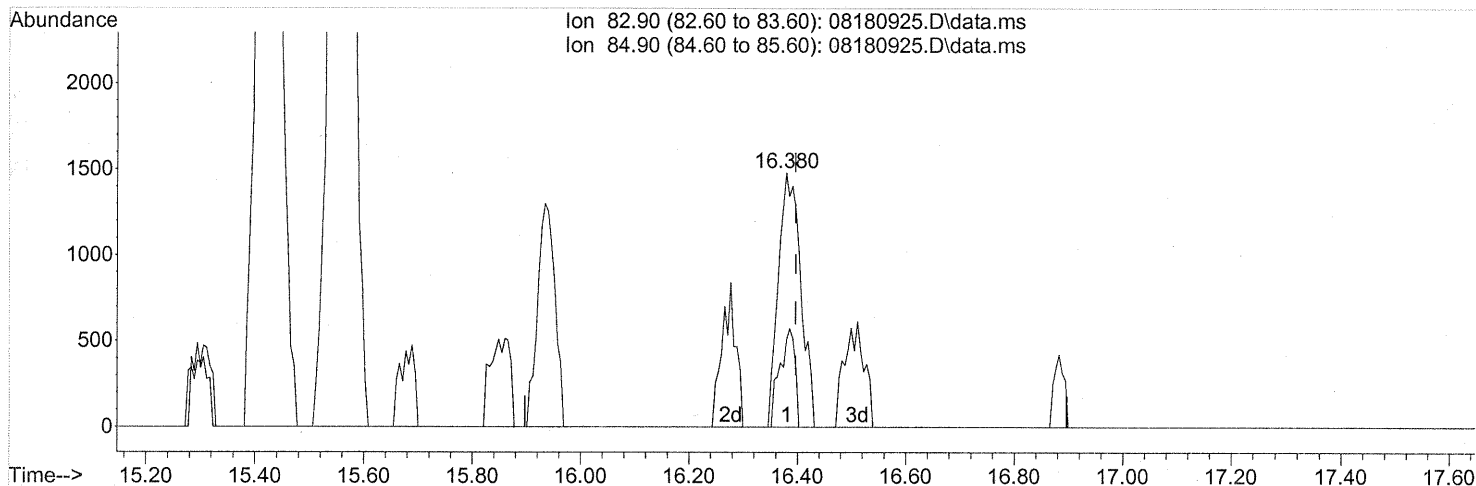
(43) Cyclohexane (T)
 15.306min (-0.011) 0.83ng
 response 18231

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	37.89
56.10	127.50	118.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 16:46:50 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.21ng

response 4245

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	25.89#
0.00	0.00	0.00
0.00	0.00	0.00

FP

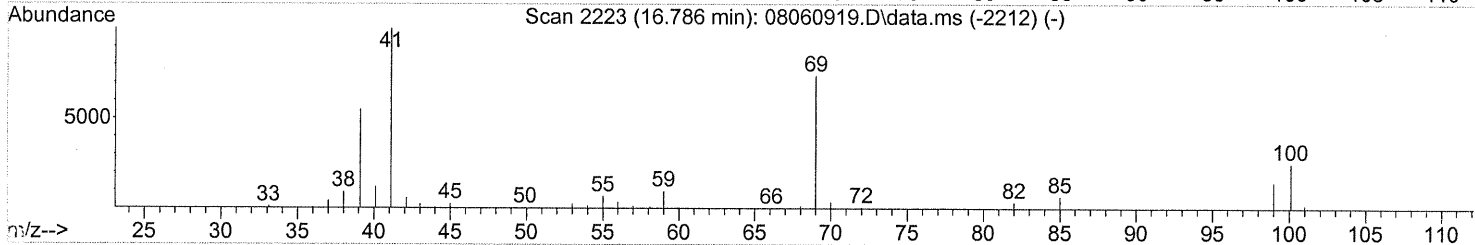
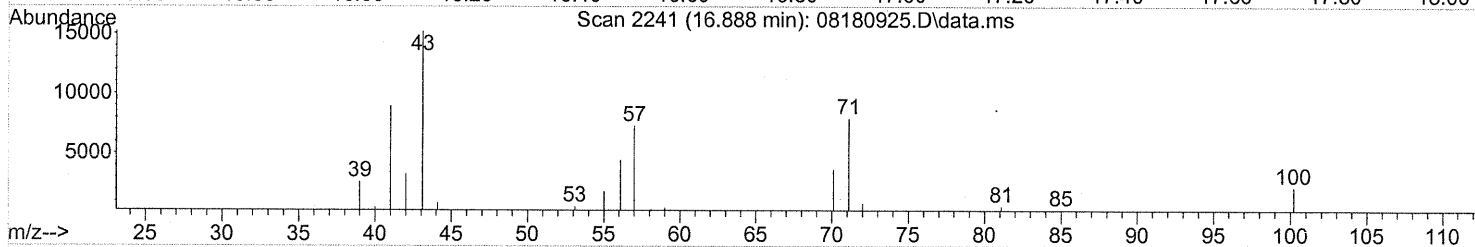
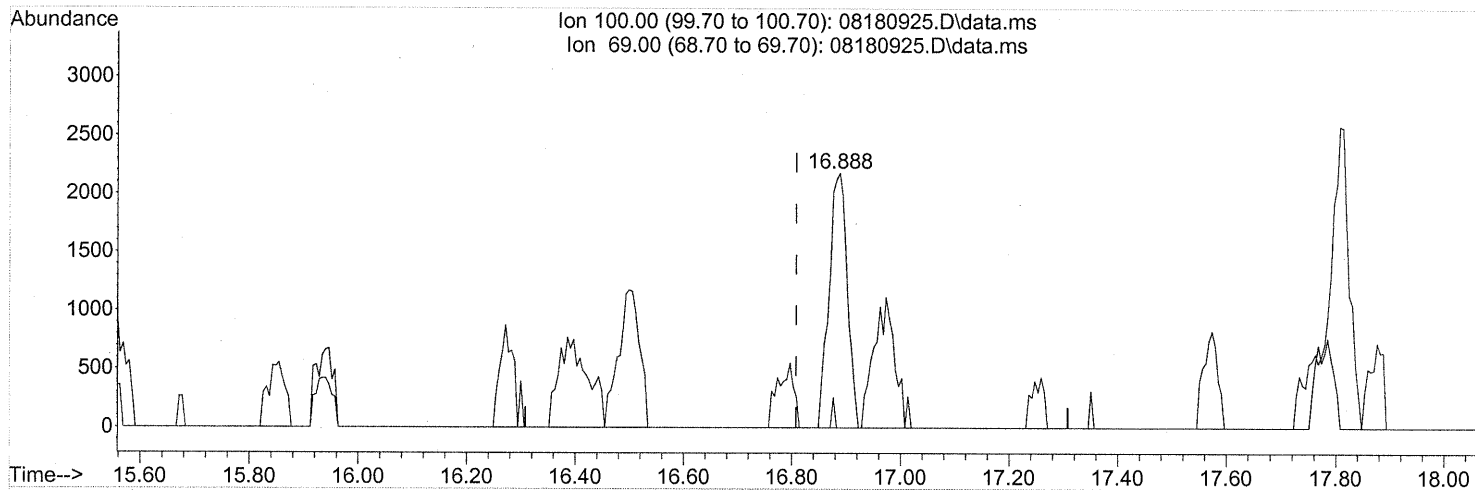
WA 8/24/09

em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

(50) Methyl Methacrylate (T)

16.888min (+0.080) 0.92ng

response 5080

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	1.71#
0.00	0.00	0.00
0.00	0.00	0.00

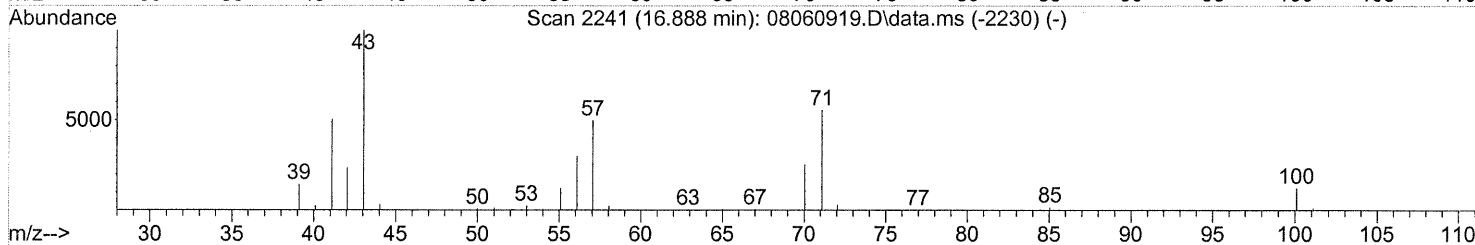
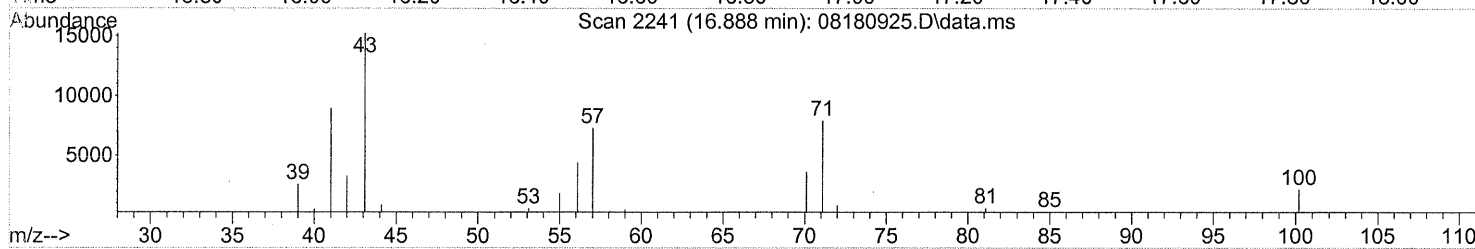
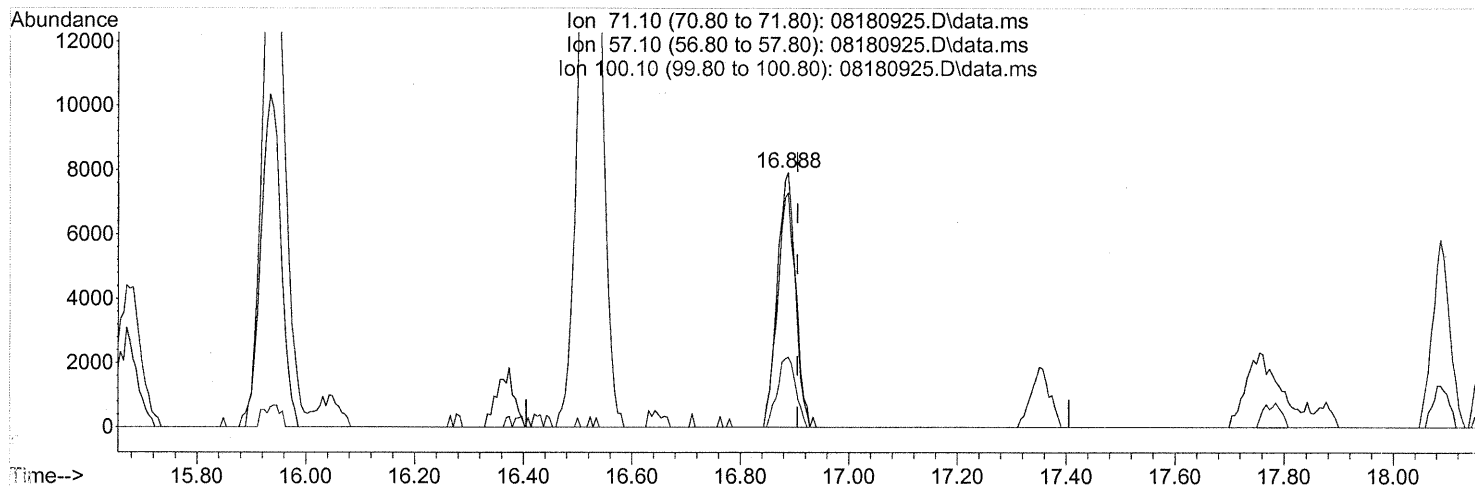
FP

DA 8/22/09 em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

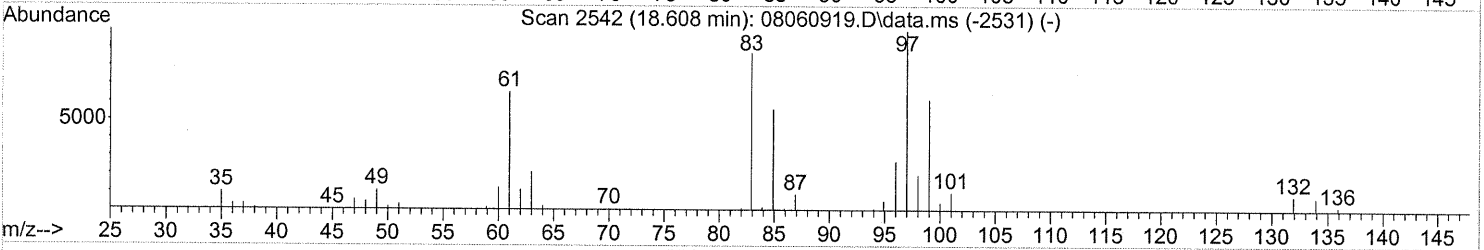
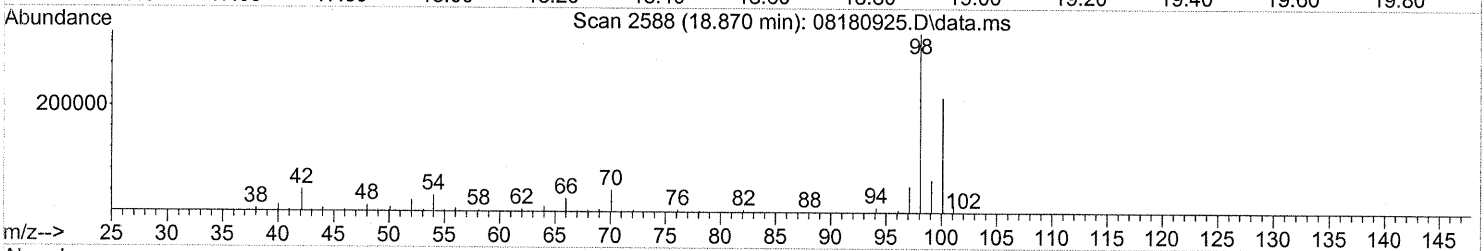
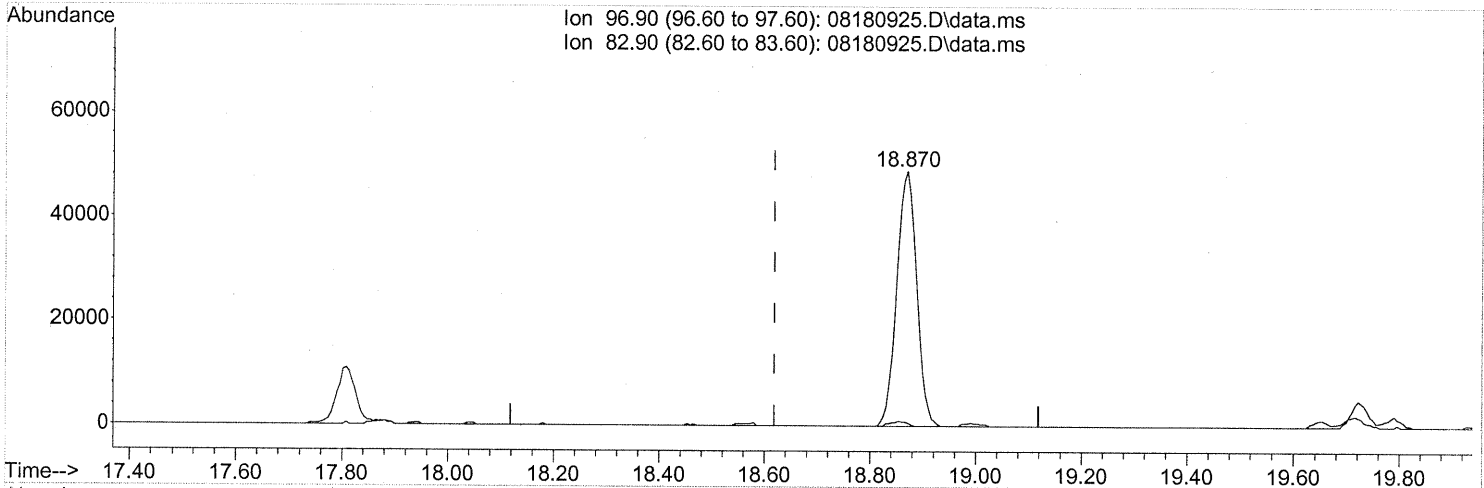
(51) n-Heptane (T)
 16.888min (-0.017) 1.15ng
 response 18665

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	90.00
100.10	26.40	27.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

18.870min (+0.251) 9.61ng

response 127069

Ion	Exp%	Act%
-----	------	------

96.90	100	100
-------	-----	-----

82.90	90.30	1.50#
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0.00	0.00	0.00
------	------	------

0.00	0.00	0.00
------	------	------

TP

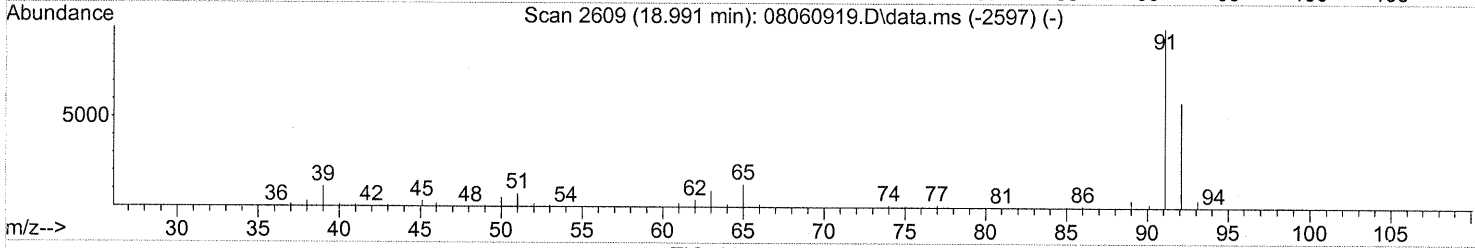
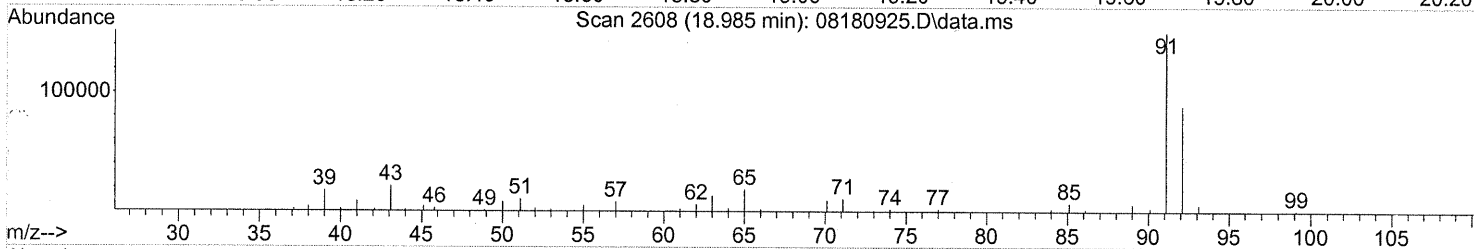
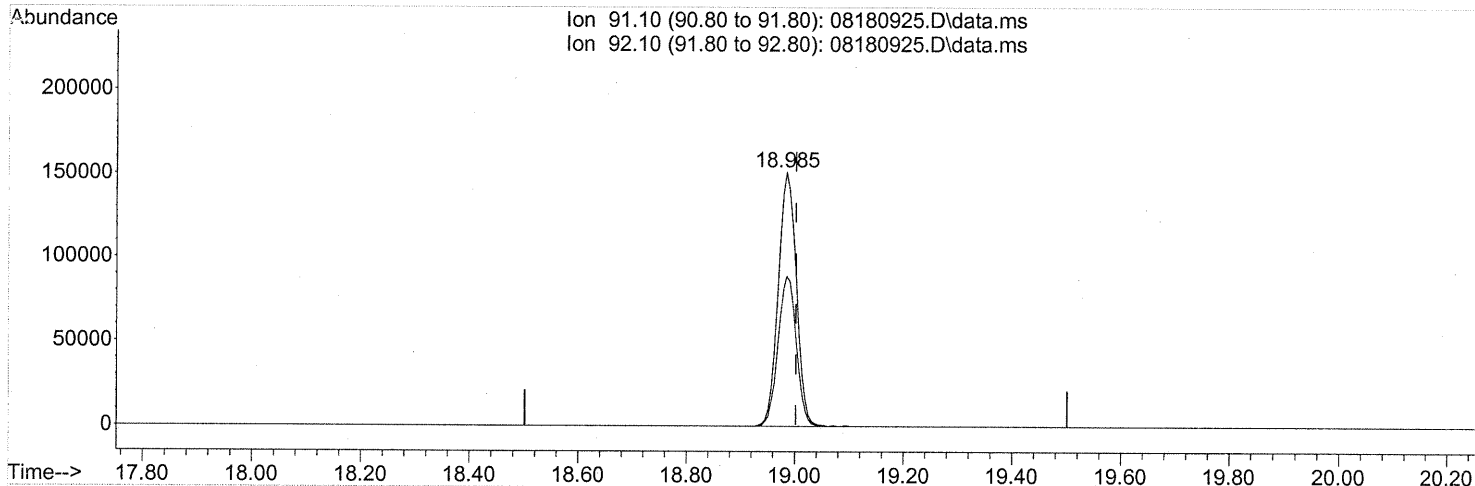
WA 8/22/09

EM 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 6.12ng

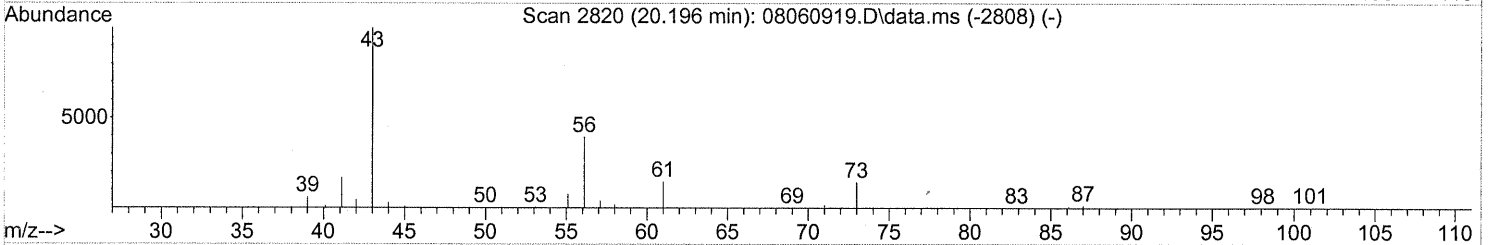
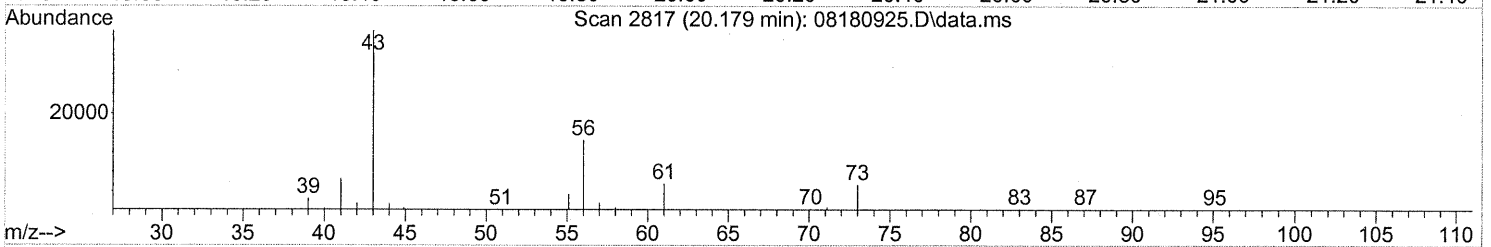
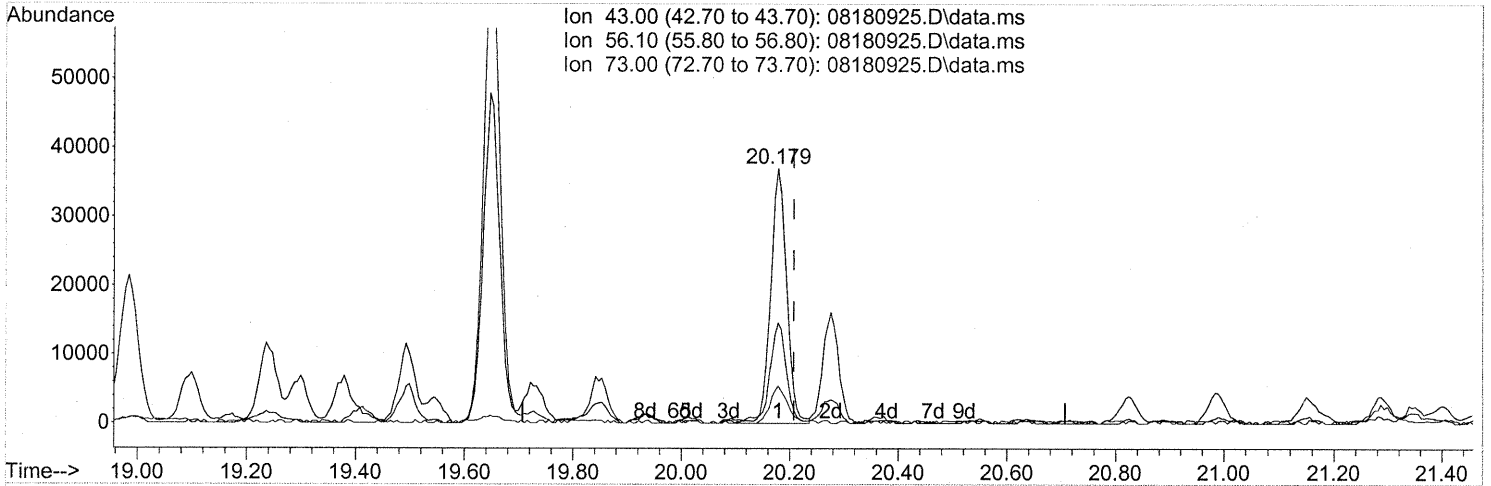
response 344832

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

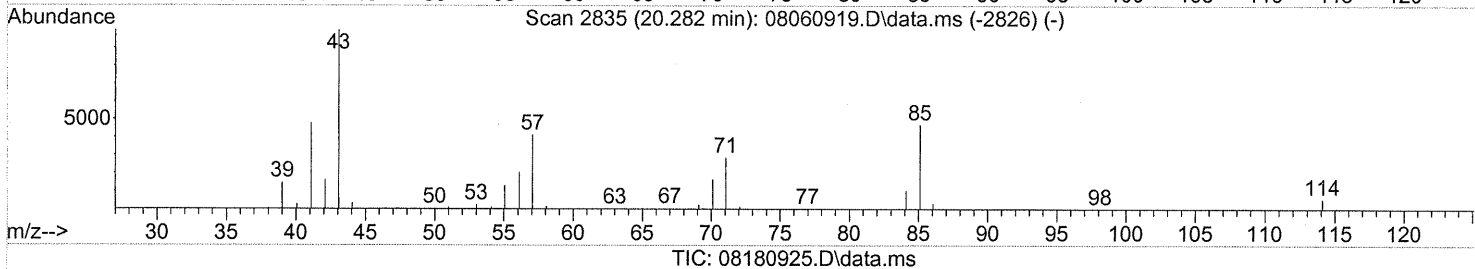
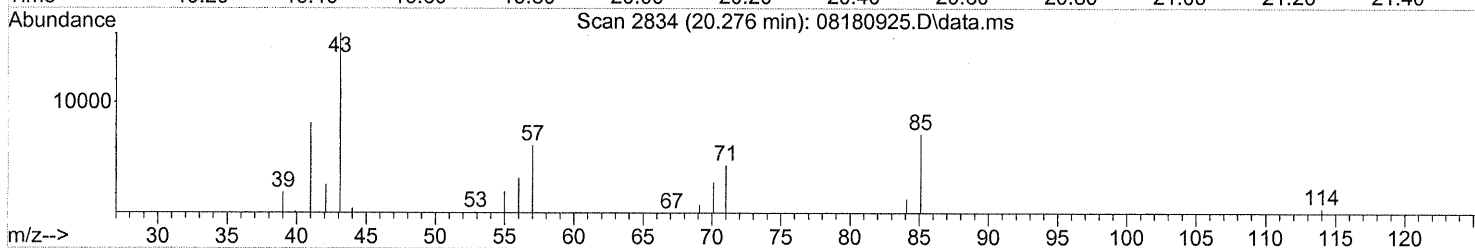
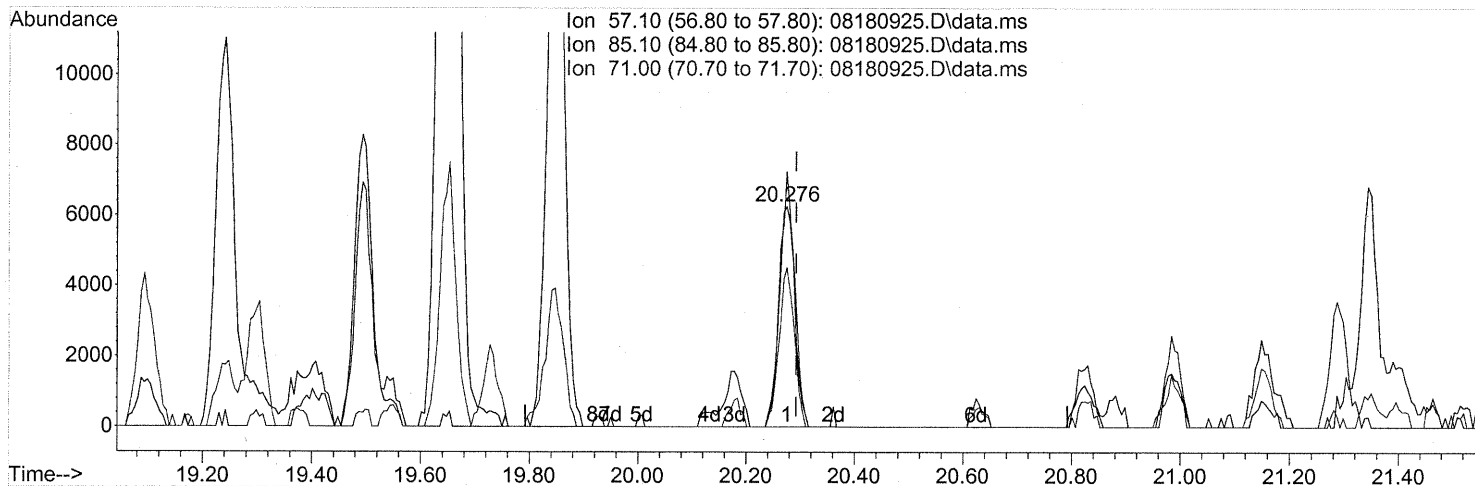
(62) n-Butyl Acetate (T)
 20.179min (-0.029) 1.70ng
 response 75128

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.97
73.00	14.80	16.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.276min (-0.017) 0.94ng

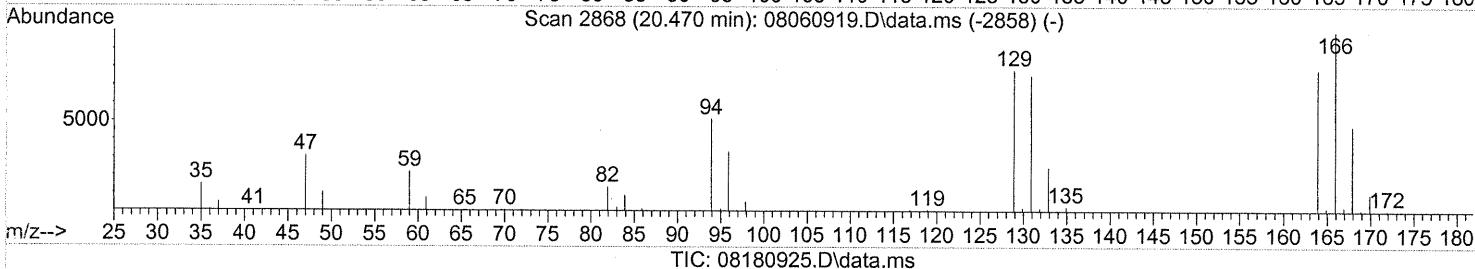
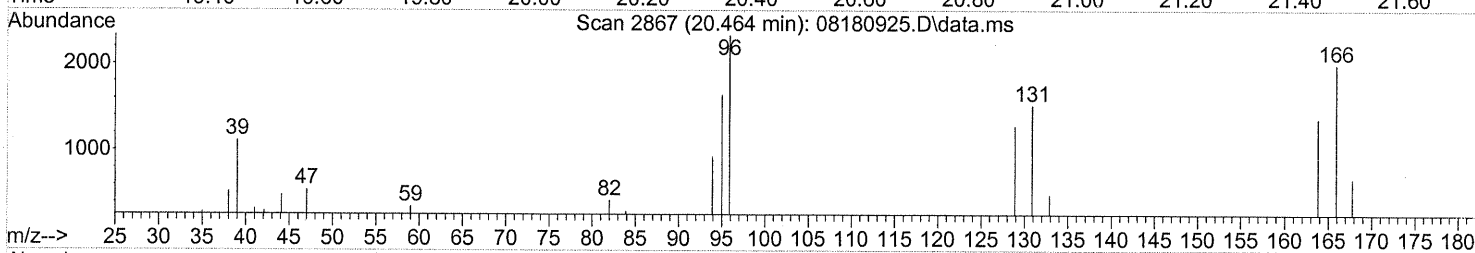
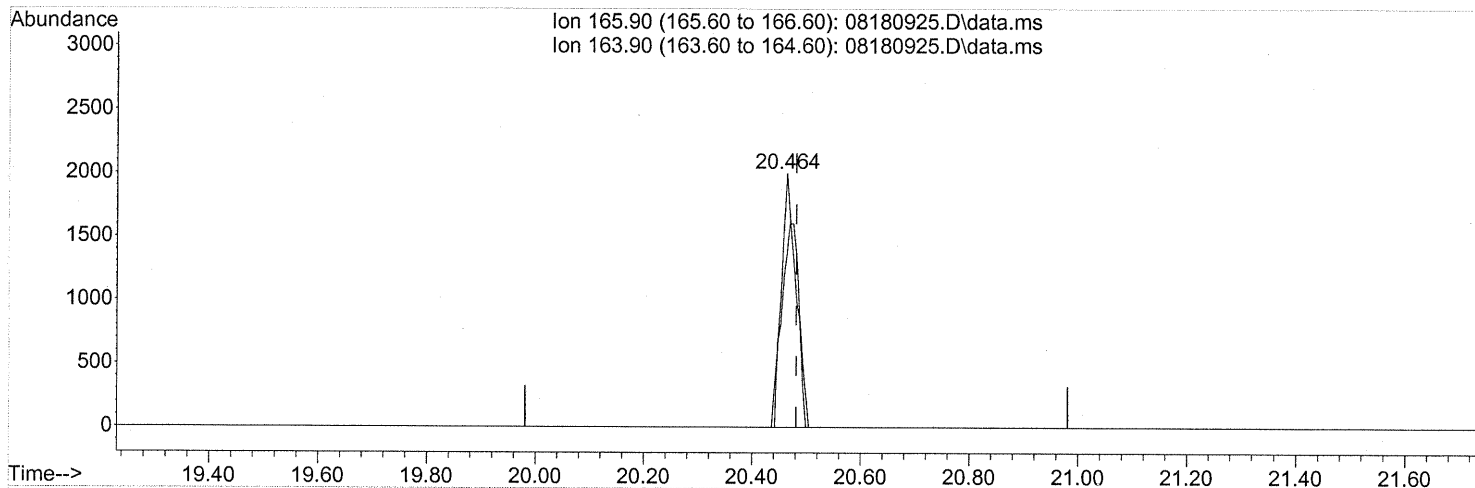
response 12806

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	107.62
71.00	68.10	69.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.464min (-0.017) 0.31ng

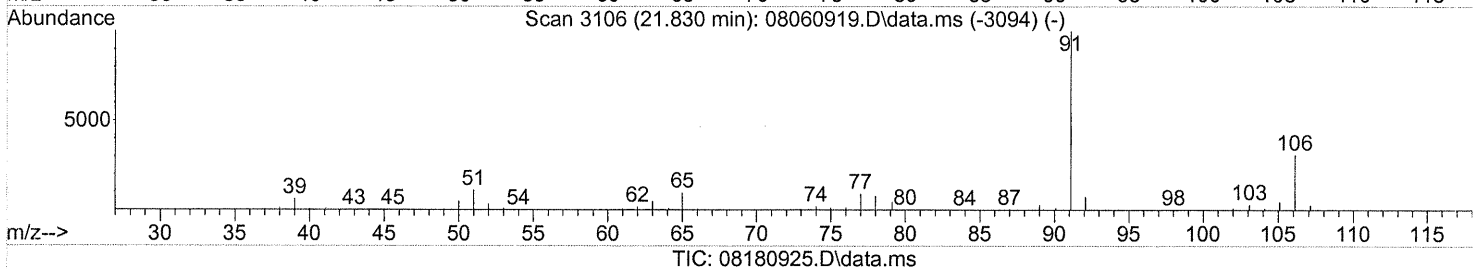
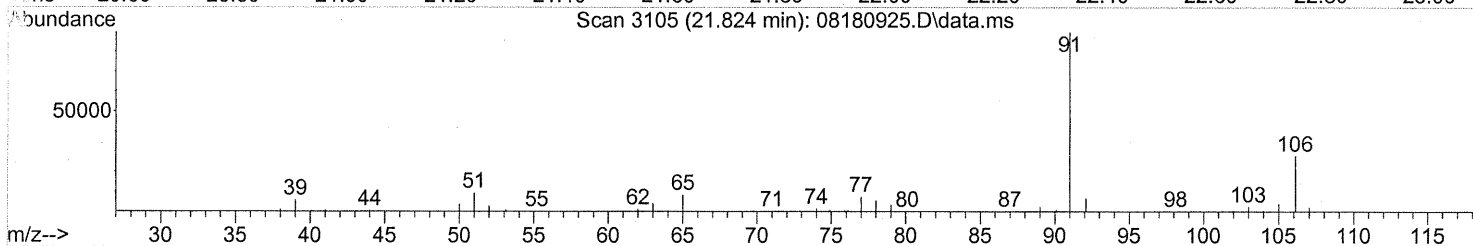
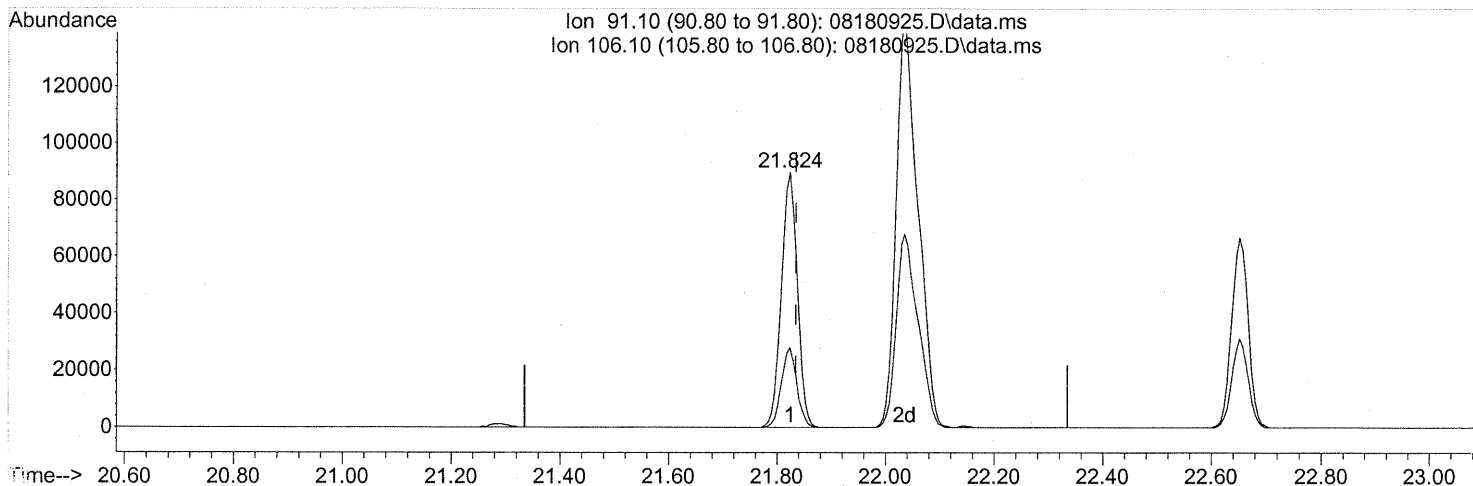
response 4046

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	77.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



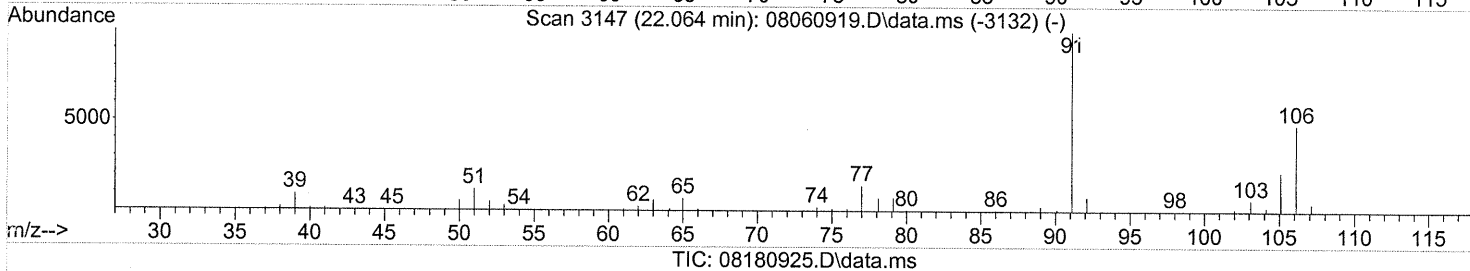
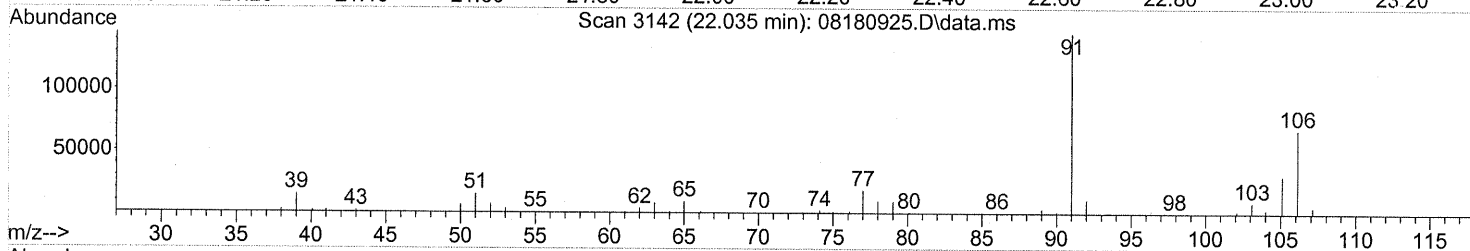
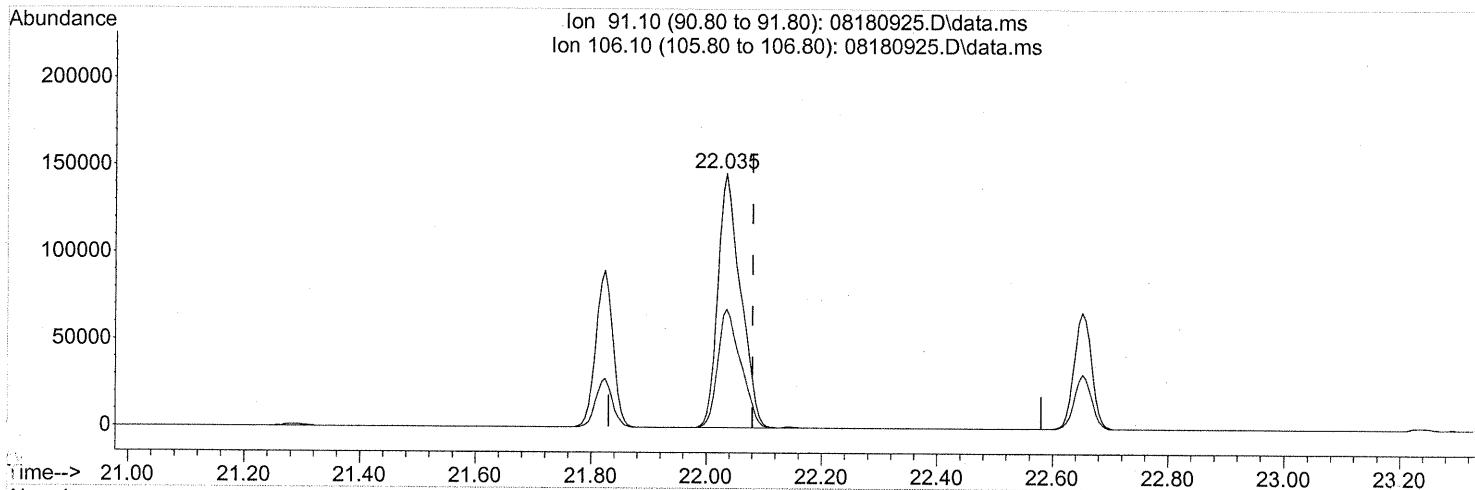
(66) Ethylbenzene (T)
 21.824min (-0.011) 2.85ng
 response 183845

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	29.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



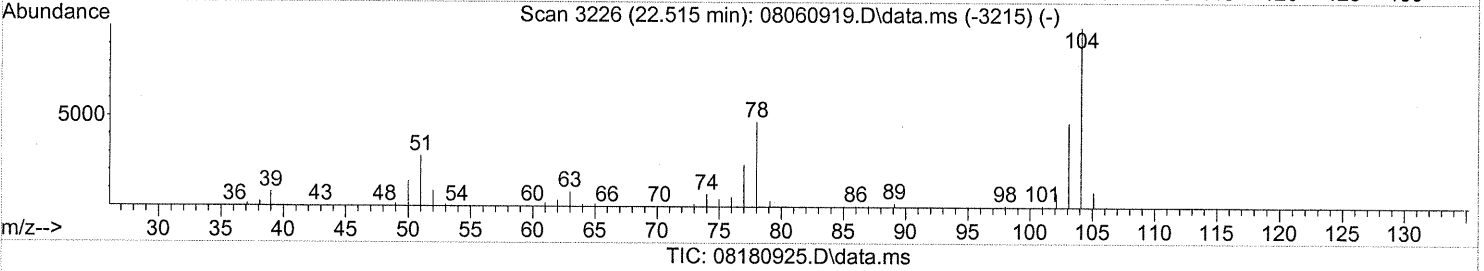
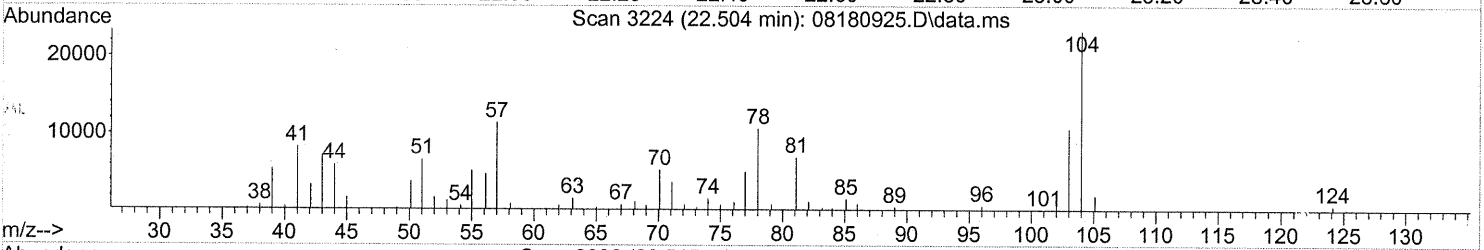
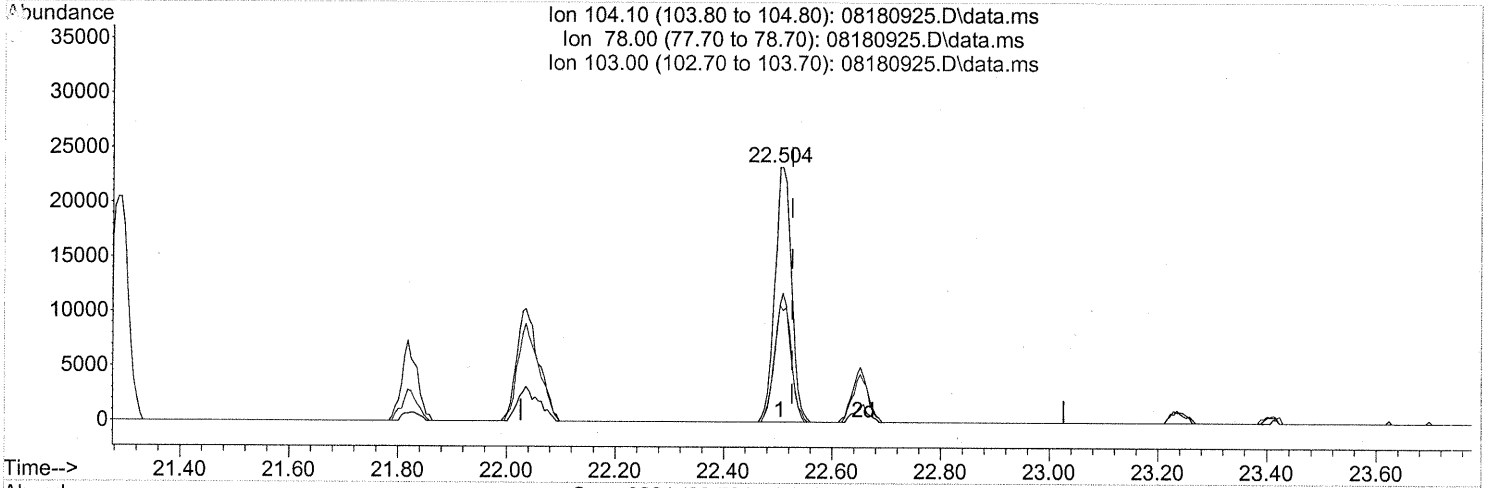
(67) m- & p-Xylenes (T)
 22.035min (-0.046) 7.65ng
 response 398539

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



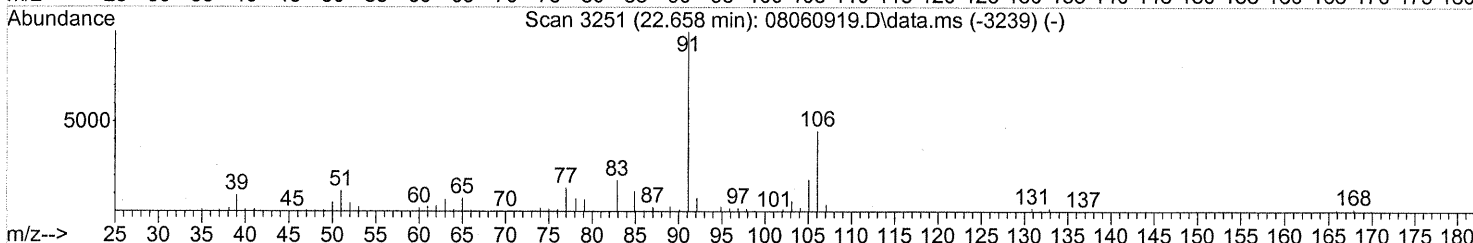
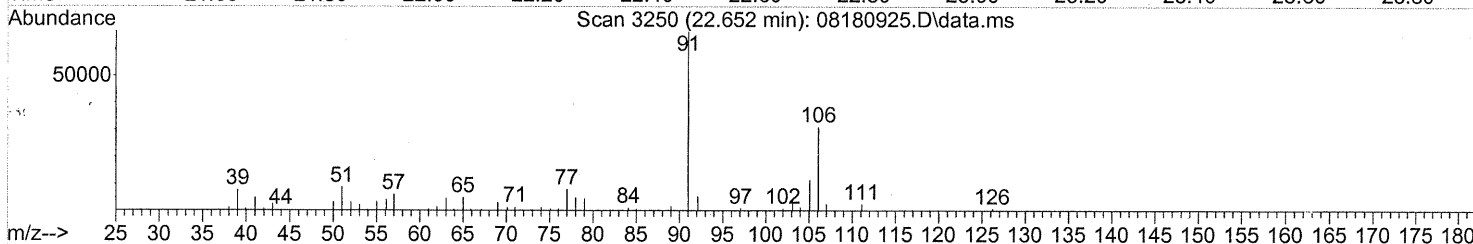
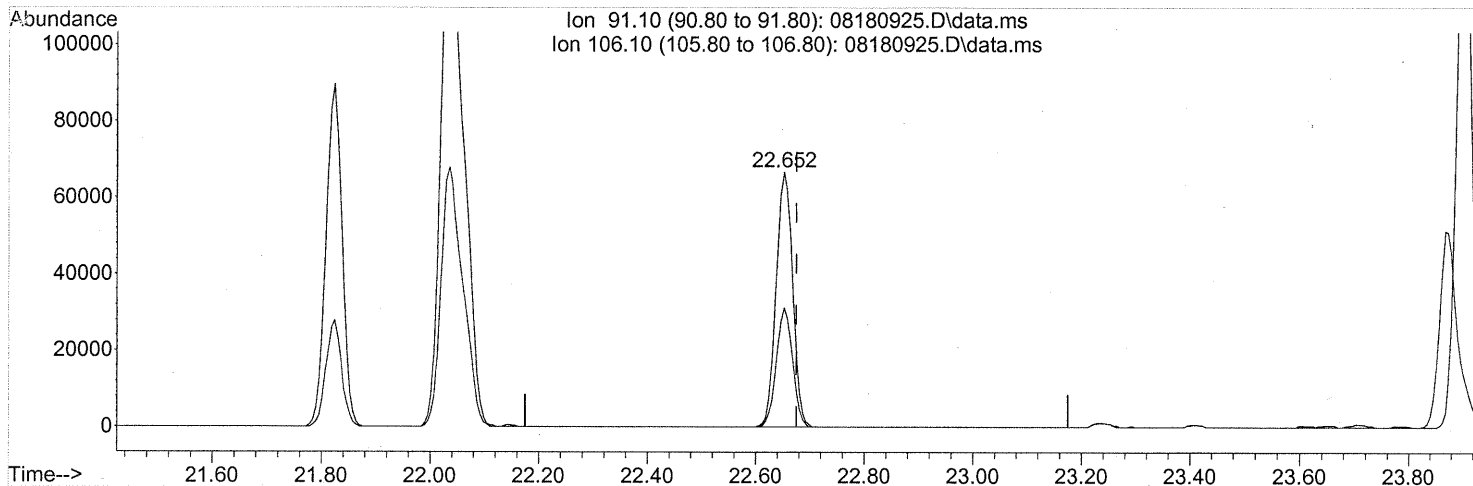
(69) Styrene (T)
 22.504min (-0.023) 1.32ng
 response 49612

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	47.51
103.00	46.20	47.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

(70) o-Xylene (T)

22.652min (-0.023) 2.70ng

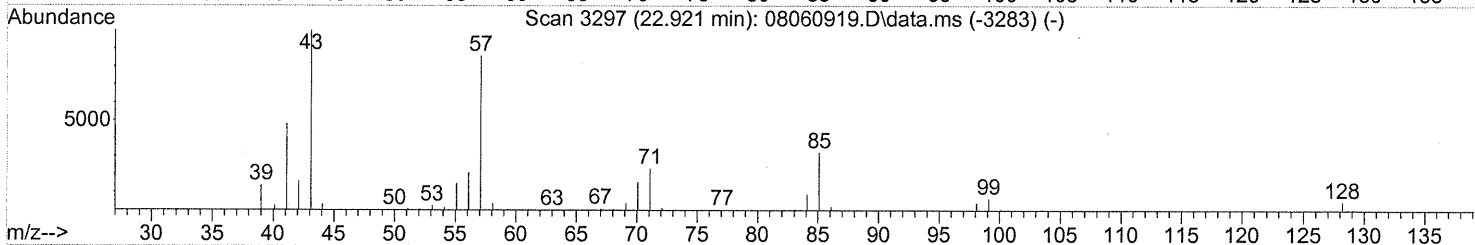
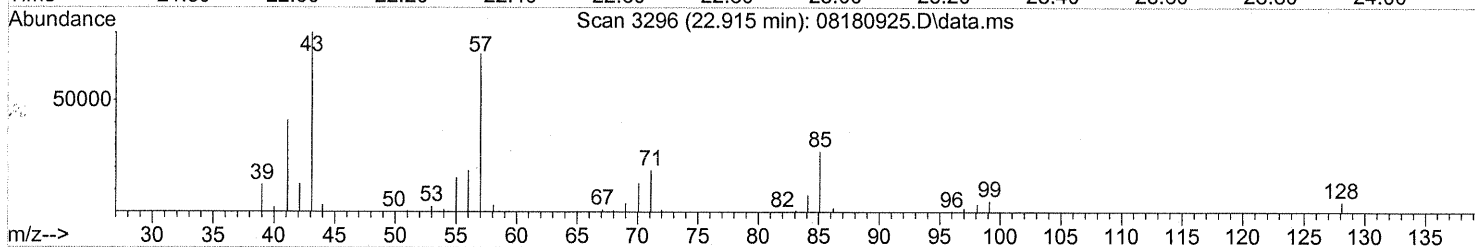
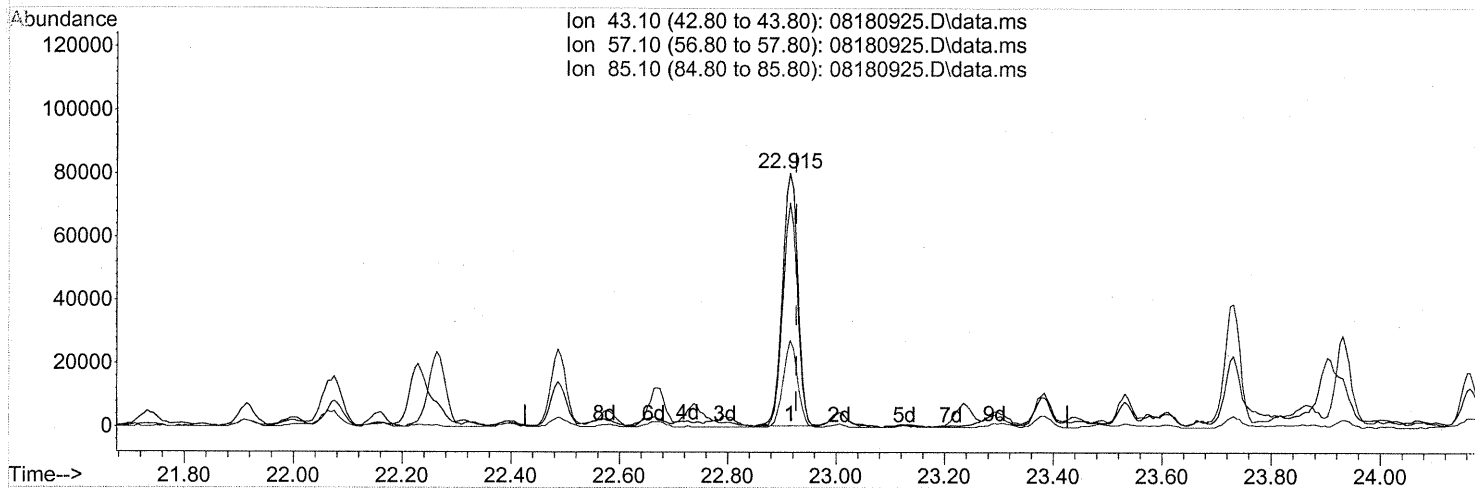
response 140859

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(71) n-Nonane (T)

22.915min (-0.011) 4.51ng

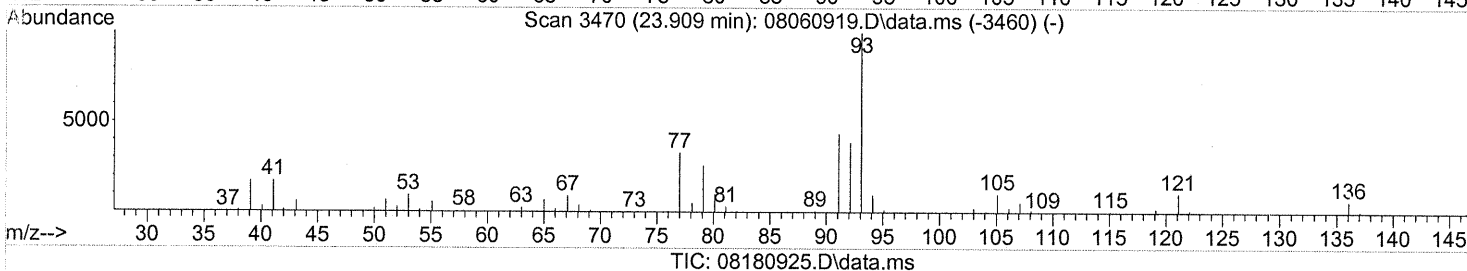
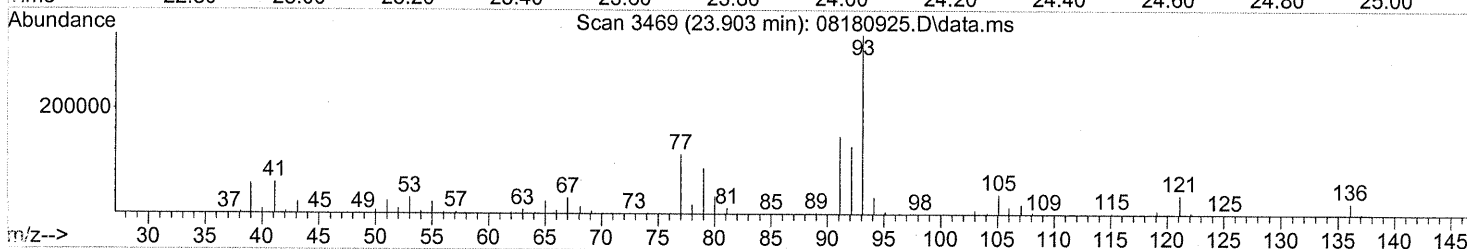
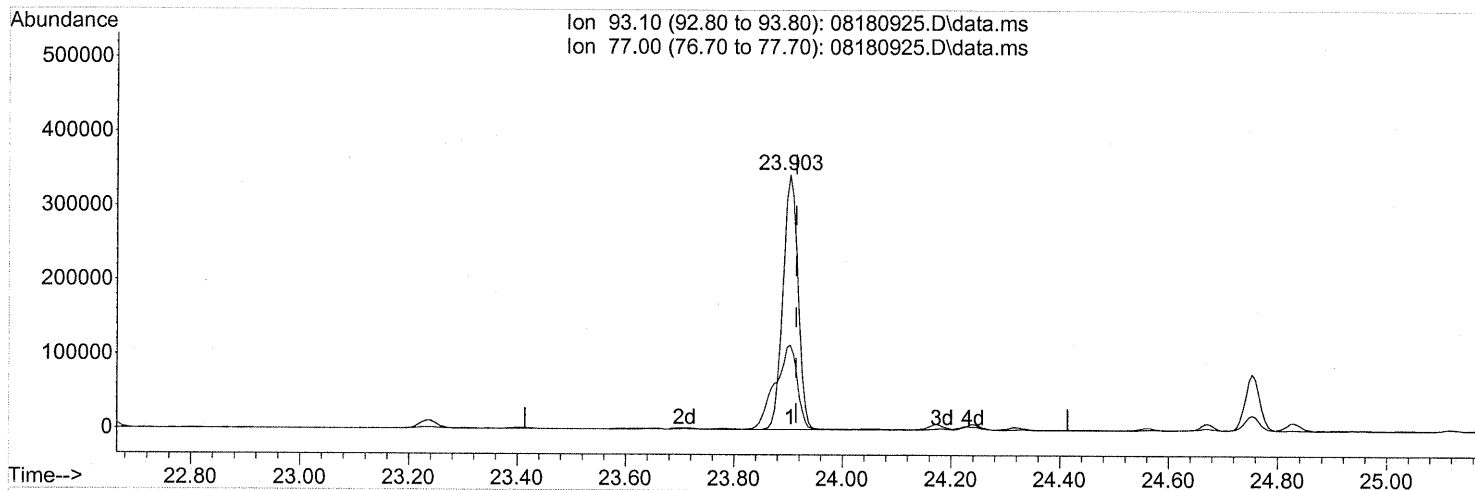
response 156413

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	85.78
85.10	30.40	31.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



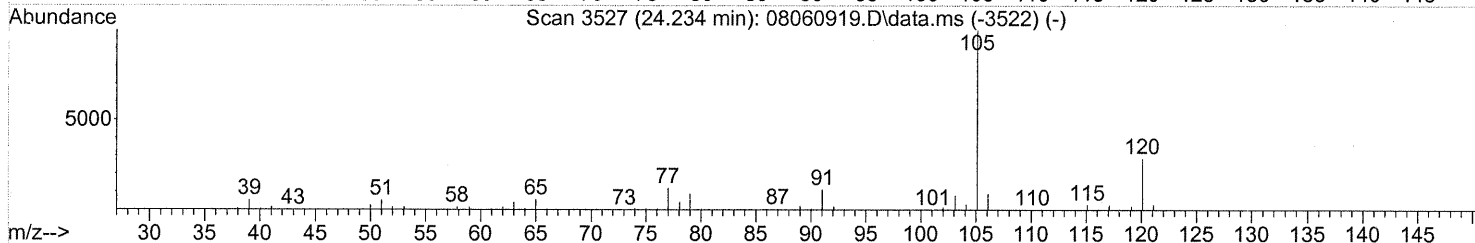
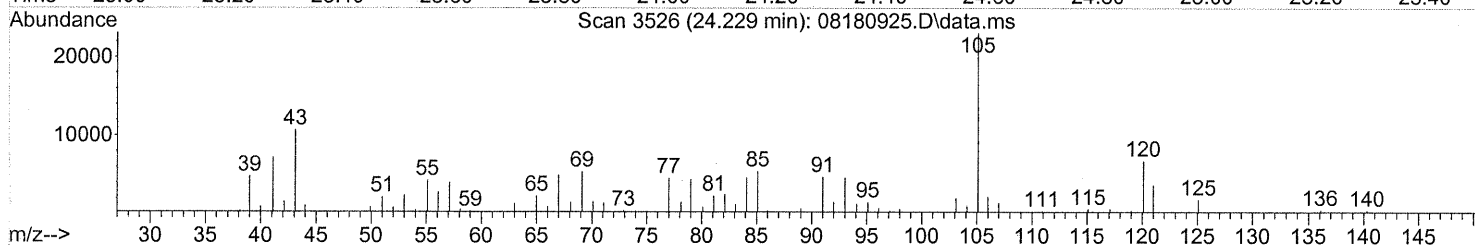
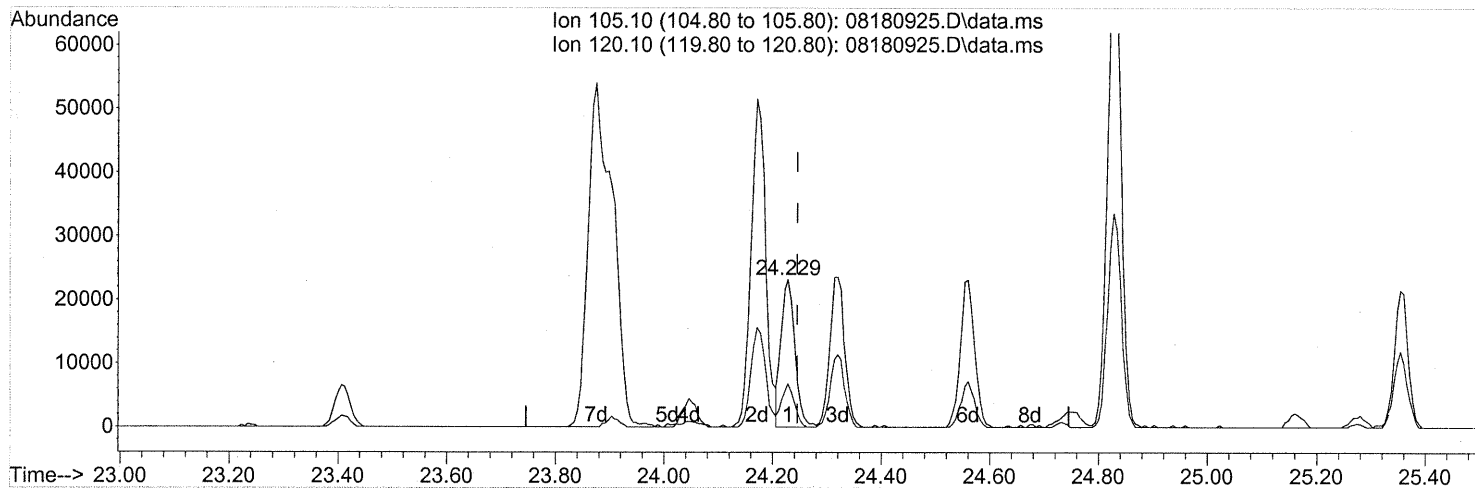
(75) alpha-Pinene (T)
 23.903min (-0.011) 19.40ng
 response 656433

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	49.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

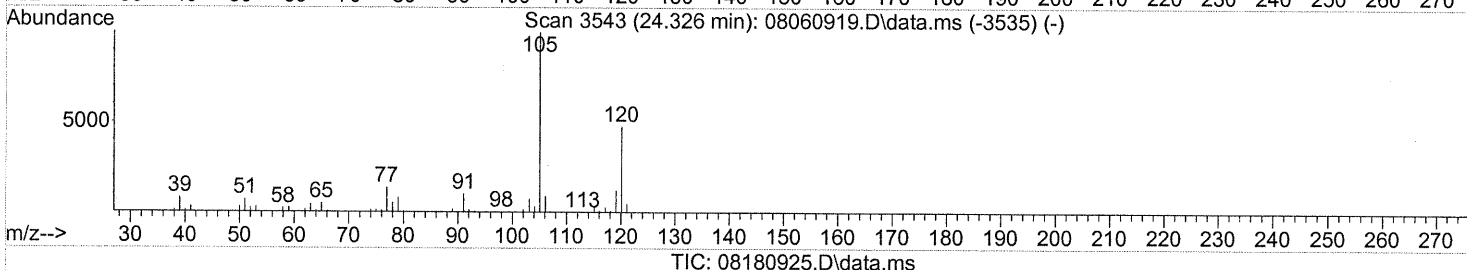
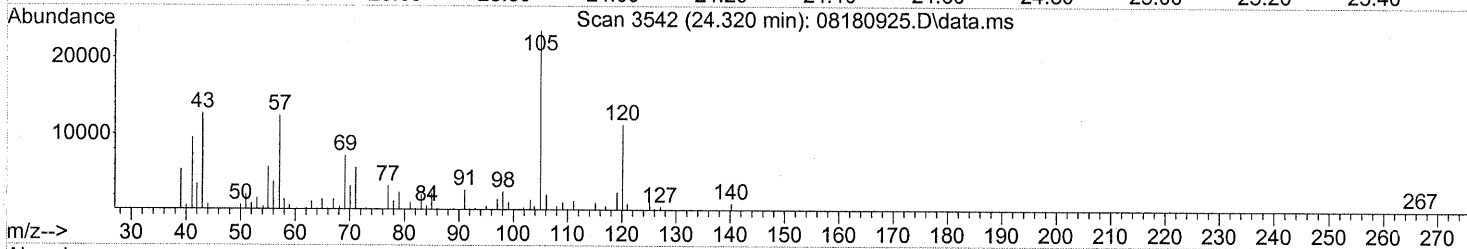
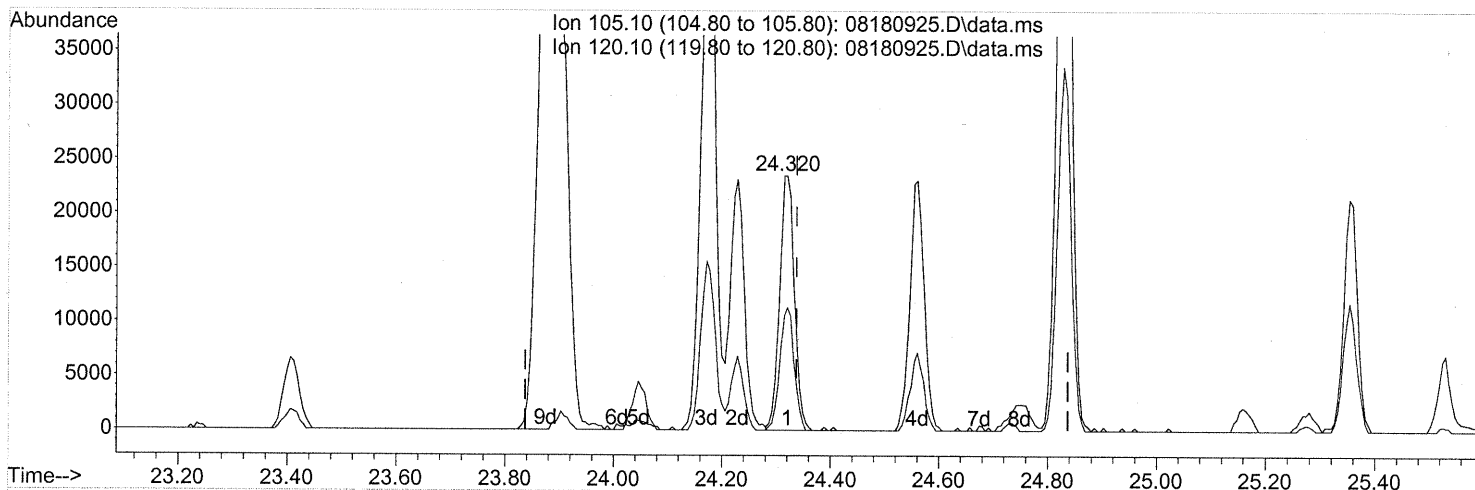
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 0.66ng
 response 40528

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	26.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

24.320min (-0.017) 0.86ng

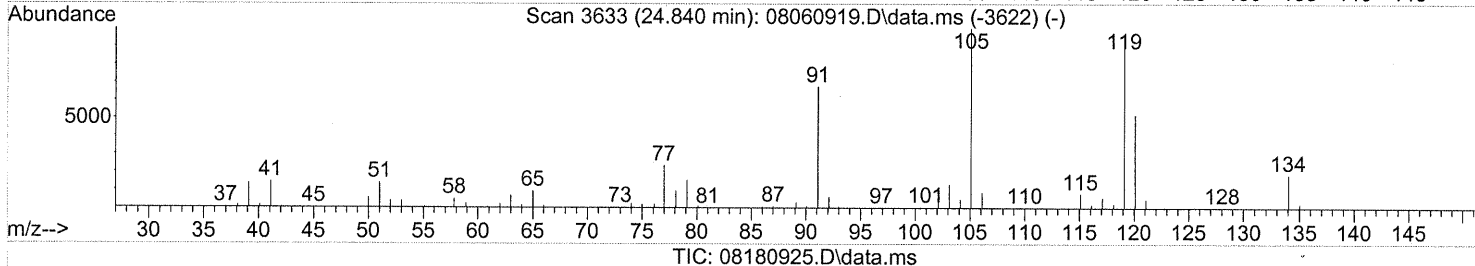
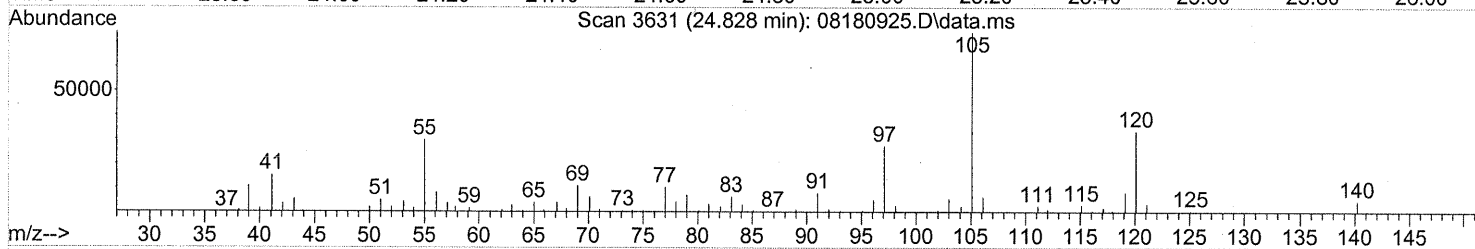
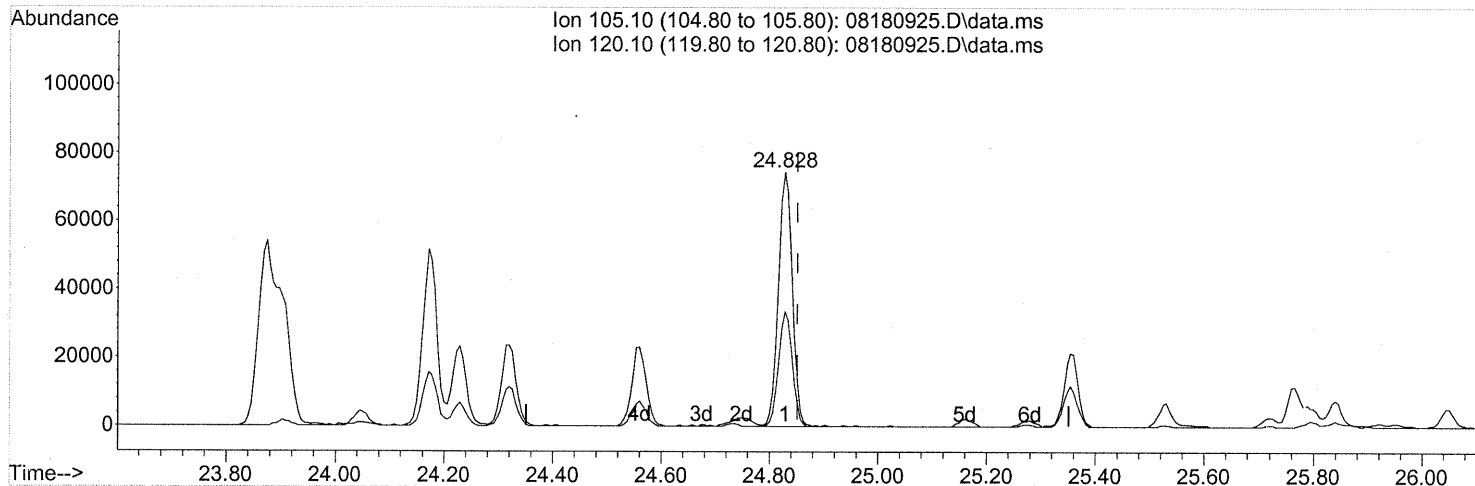
response 44342

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	46.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

24.828min (-0.023) 2.52ng

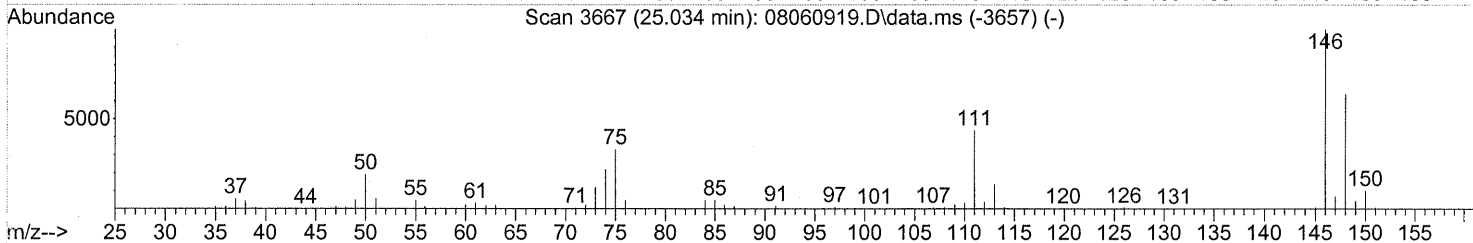
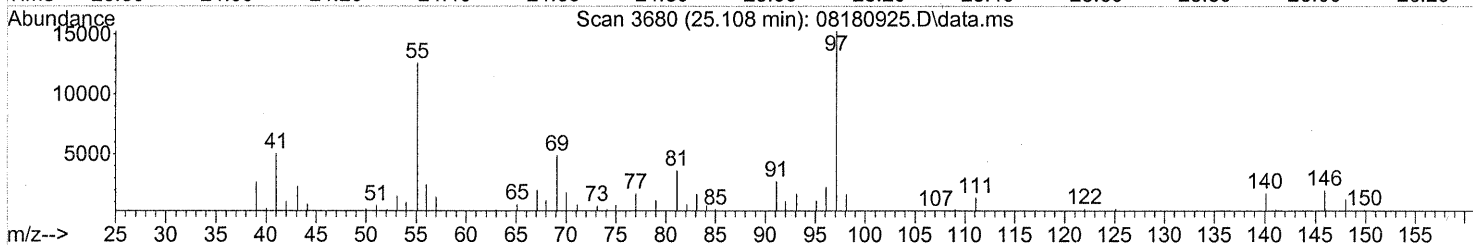
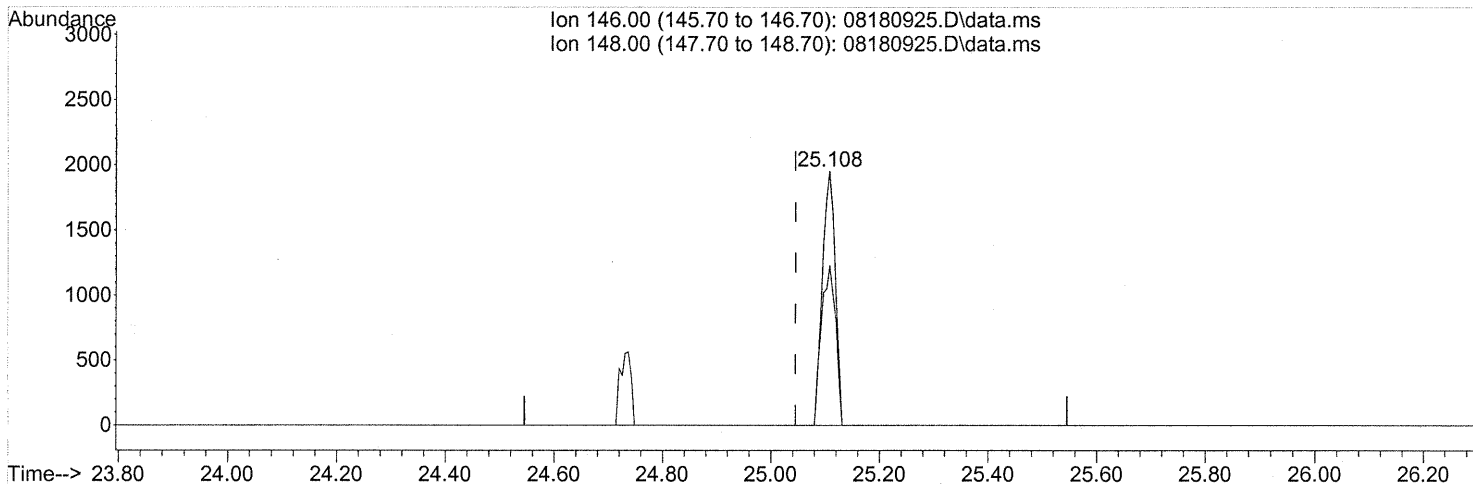
response 132225

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180925.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.108min (+0.063) 0.12ng

response 3213

Ion	Exp%	Act%
146.00	100	100
148.00	61.60	69.41
0.00	0.00	0.00
0.00	0.00	0.00

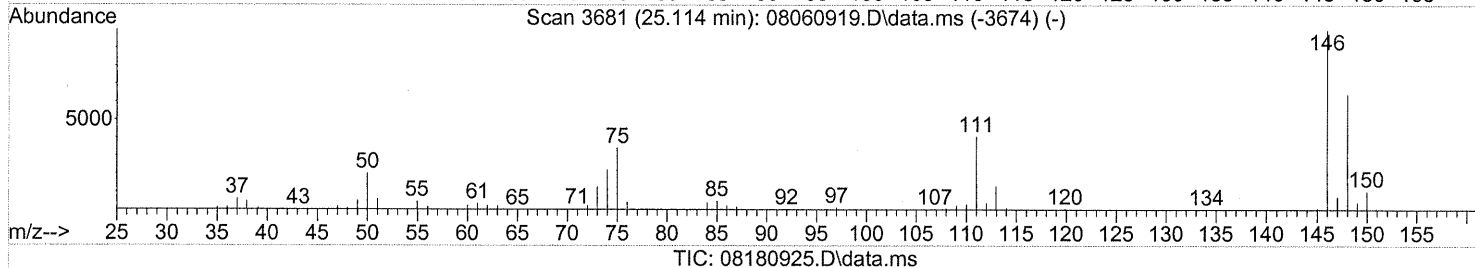
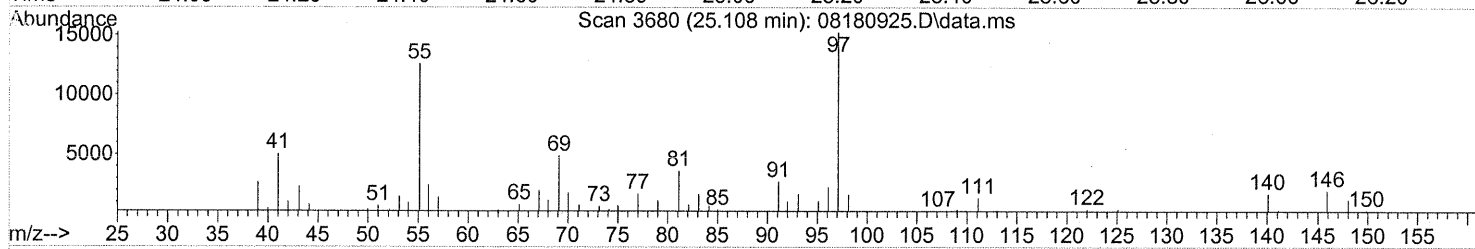
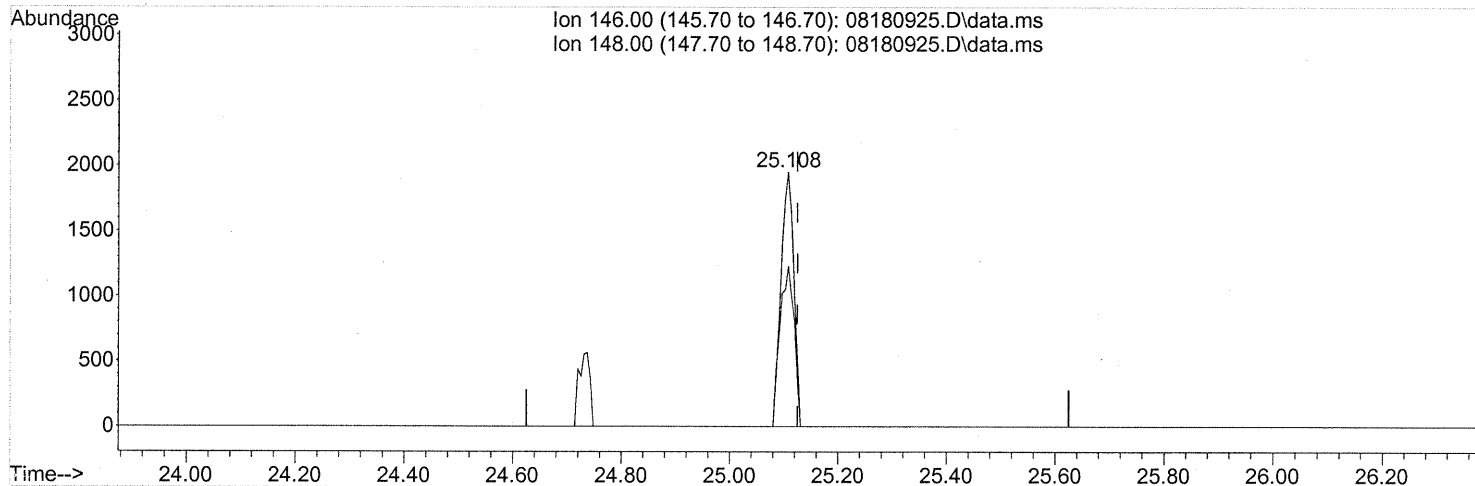
TP

WA 8/22/09 Cam 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.108min (-0.017) 0.11ng

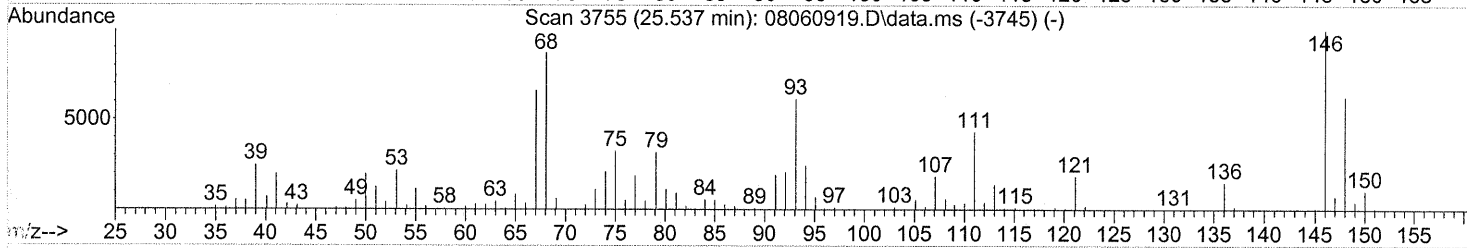
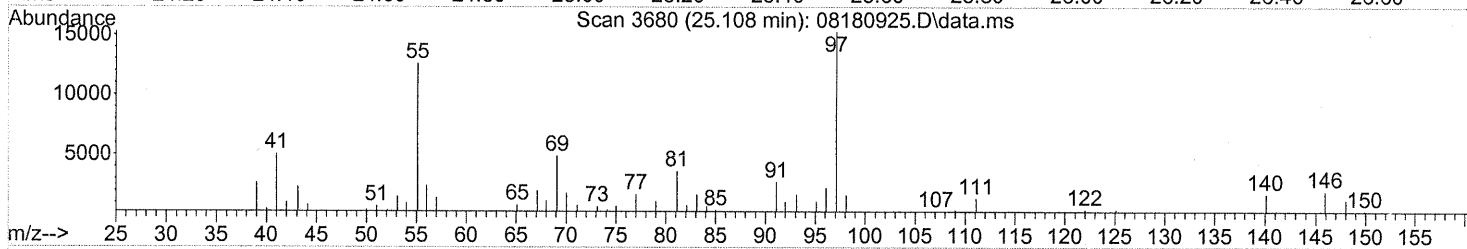
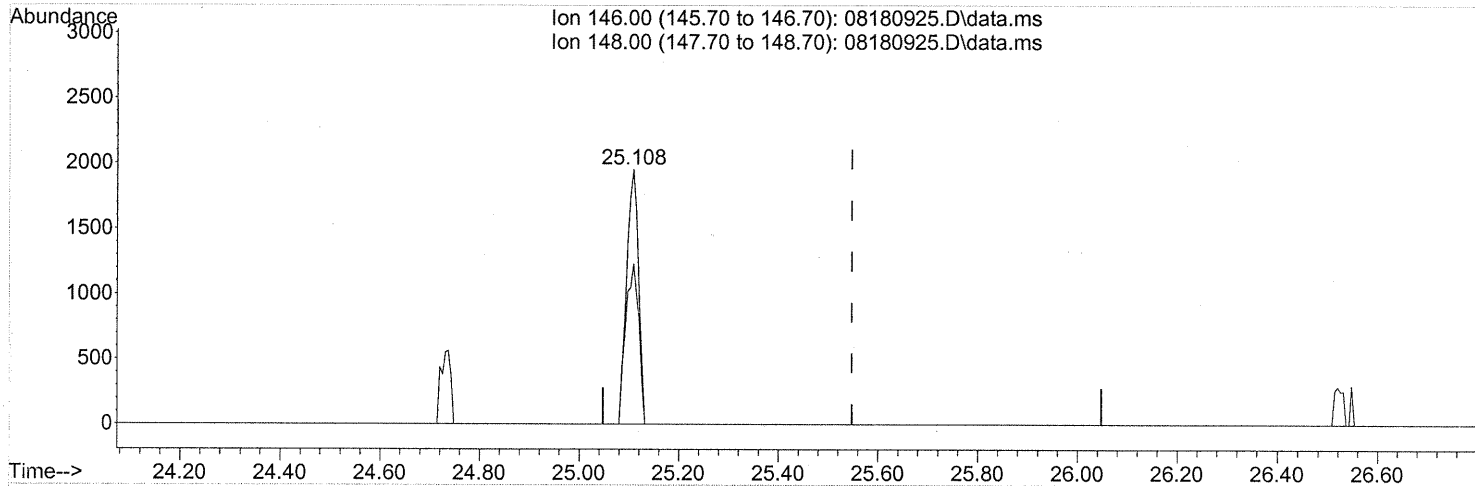
response 3213

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	69.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.108min (-0.440) 0.13ng

response 3213

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	69.41
0.00	0.00	0.00
0.00	0.00	0.00

TP

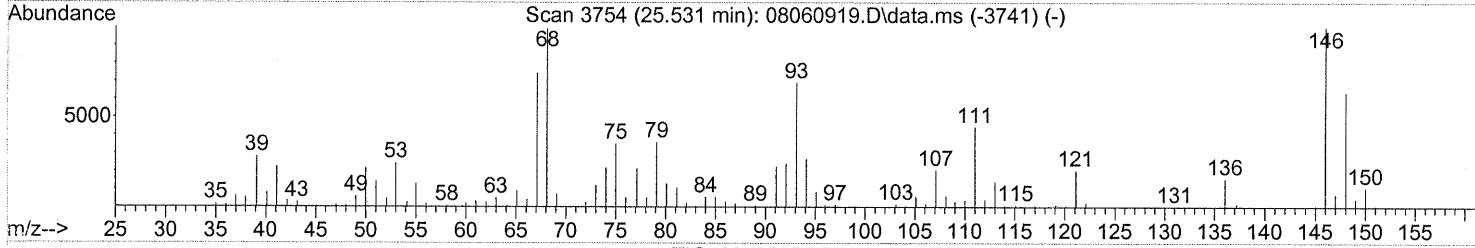
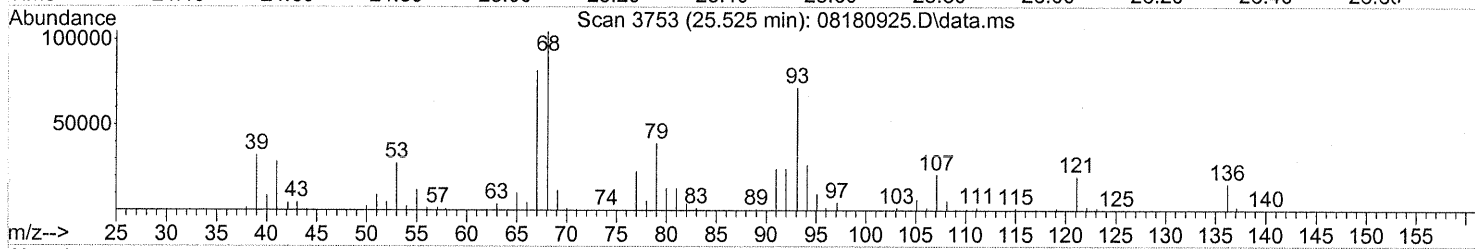
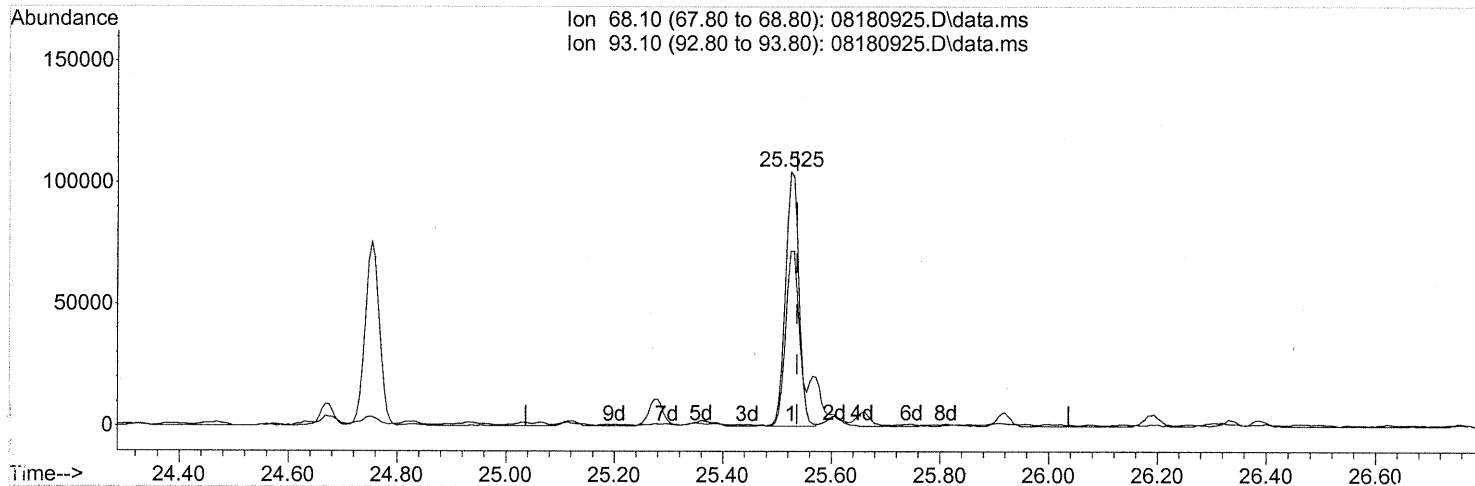
DA 8/22/09

Em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180925.D
 Acq On : 19 Aug 2009 7:19
 Operator : WA
 Sample : P0902766-003 (1000mL)
 Misc : Env. Health & Engineering 101162
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 19 10:12:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(91) d-Limonene (T)
 25.525min (-0.011) 8.02ng
 response 179303

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	92.96#
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101163
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00631

CAS Project ID: P0902766
CAS Sample ID: P0902766-004

Date Collected: 8/11/09
Date Received: 8/12/09
Date Analyzed: 8/19/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	0.97	0.68	0.56	0.40	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.2	0.68	0.66	0.14	
74-87-3	Chloromethane	0.57	0.14	0.28	0.066	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.68	ND	0.097	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.053	
106-99-0	1,3-Butadiene	ND	0.14	ND	0.062	
74-83-9	Bromomethane	ND	0.14	ND	0.035	
75-00-3	Chloroethane	ND	0.14	ND	0.052	
64-17-5	Ethanol	13	6.8	7.1	3.6	
75-05-8	Acetonitrile	1.4	0.68	0.82	0.41	
107-02-8	Acrolein	1.0	0.68	0.45	0.30	
67-64-1	Acetone	45	6.8	19	2.9	
75-69-4	Trichlorofluoromethane	1.4	0.14	0.26	0.024	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	0.68	0.50	0.28	
107-13-1	Acrylonitrile	ND	0.68	ND	0.31	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.034	
75-09-2	Methylene Chloride	ND	0.68	ND	0.20	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	ND	0.043	
76-13-1	Trichlorotrifluoroethane	0.73	0.14	0.096	0.018	
75-15-0	Carbon Disulfide	ND	0.68	ND	0.22	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	ND	0.038	
108-05-4	Vinyl Acetate	ND	6.8	ND	1.9	
78-93-3	2-Butanone (MEK)	2.3	0.68	0.79	0.23	

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

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

Verified By: f Date: 8/25/09 **131**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 101163

Client Project ID: 16512

CAS Project ID: P0902766

CAS Sample ID: P0902766-004

Test Code: EPA TO-15

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

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00631

Date Collected: 8/11/09

Date Received: 8/12/09

Date Analyzed: 8/19/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.36

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	0.034	
141-78-6	Ethyl Acetate	ND	0.68	ND	0.19	
110-54-3	n-Hexane	ND	0.68	ND	0.19	
67-66-3	Chloroform	0.21	0.14	0.043	0.028	
109-99-9	Tetrahydrofuran (THF)	ND	0.68	ND	0.23	
107-06-2	1,2-Dichloroethane	ND	0.14	ND	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.025	
71-43-2	Benzene	0.48	0.14	0.15	0.043	
56-23-5	Carbon Tetrachloride	0.59	0.14	0.093	0.022	
110-82-7	Cyclohexane	ND	0.68	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.029	
75-27-4	Bromodichloromethane	ND	0.14	ND	0.020	
79-01-6	Trichloroethene	ND	0.14	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.68	ND	0.19	
80-62-6	Methyl Methacrylate	ND	0.68	ND	0.17	
142-82-5	n-Heptane	ND	0.68	ND	0.17	
10061-01-5	cis-1,3-Dichloropropene	ND	0.68	ND	0.15	
108-10-1	4-Methyl-2-pentanone	ND	0.68	ND	0.17	
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	ND	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.025	
108-88-3	Toluene	1.8	0.68	0.47	0.18	
591-78-6	2-Hexanone	ND	0.68	ND	0.17	
124-48-1	Dibromochloromethane	ND	0.14	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.018	
123-86-4	n-Butyl Acetate	ND	0.68	ND	0.14	

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

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

Verified By: _____

Date: 8/25/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101163
Client Project ID: 16512

CAS Project ID: P0902766
 CAS Sample ID: P0902766-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00631

Date Collected: 8/11/09
Date Received: 8/12/09
Date Analyzed: 8/19/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.68	ND	0.15	
127-18-4	Tetrachloroethene	0.67	0.14	0.098	0.020	
108-90-7	Chlorobenzene	ND	0.14	ND	0.030	
100-41-4	Ethylbenzene	ND	0.68	ND	0.16	
179601-23-1	m,p-Xylenes	1.1	0.68	0.24	0.16	
75-25-2	Bromoform	ND	0.68	ND	0.066	
100-42-5	Styrene	ND	0.68	ND	0.16	
95-47-6	o-Xylene	ND	0.68	ND	0.16	
111-84-2	n-Nonane	ND	0.68	ND	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.020	
98-82-8	Cumene	ND	0.68	ND	0.14	
80-56-8	alpha-Pinene	ND	0.68	ND	0.12	
103-65-1	n-Propylbenzene	ND	0.68	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.68	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.68	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	ND	0.68	ND	0.14	
100-44-7	Benzyl Chloride	ND	0.14	ND	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.14	ND	0.023	
106-46-7	1,4-Dichlorobenzene	0.14	0.14	0.023	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.14	ND	0.023	
5989-27-5	d-Limonene	0.70	0.68	0.13	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.68	ND	0.070	
120-82-1	1,2,4-Trichlorobenzene	ND	0.68	ND	0.092	
91-20-3	Naphthalene	ND	0.68	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.68	ND	0.064	

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

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

Verified By: _____



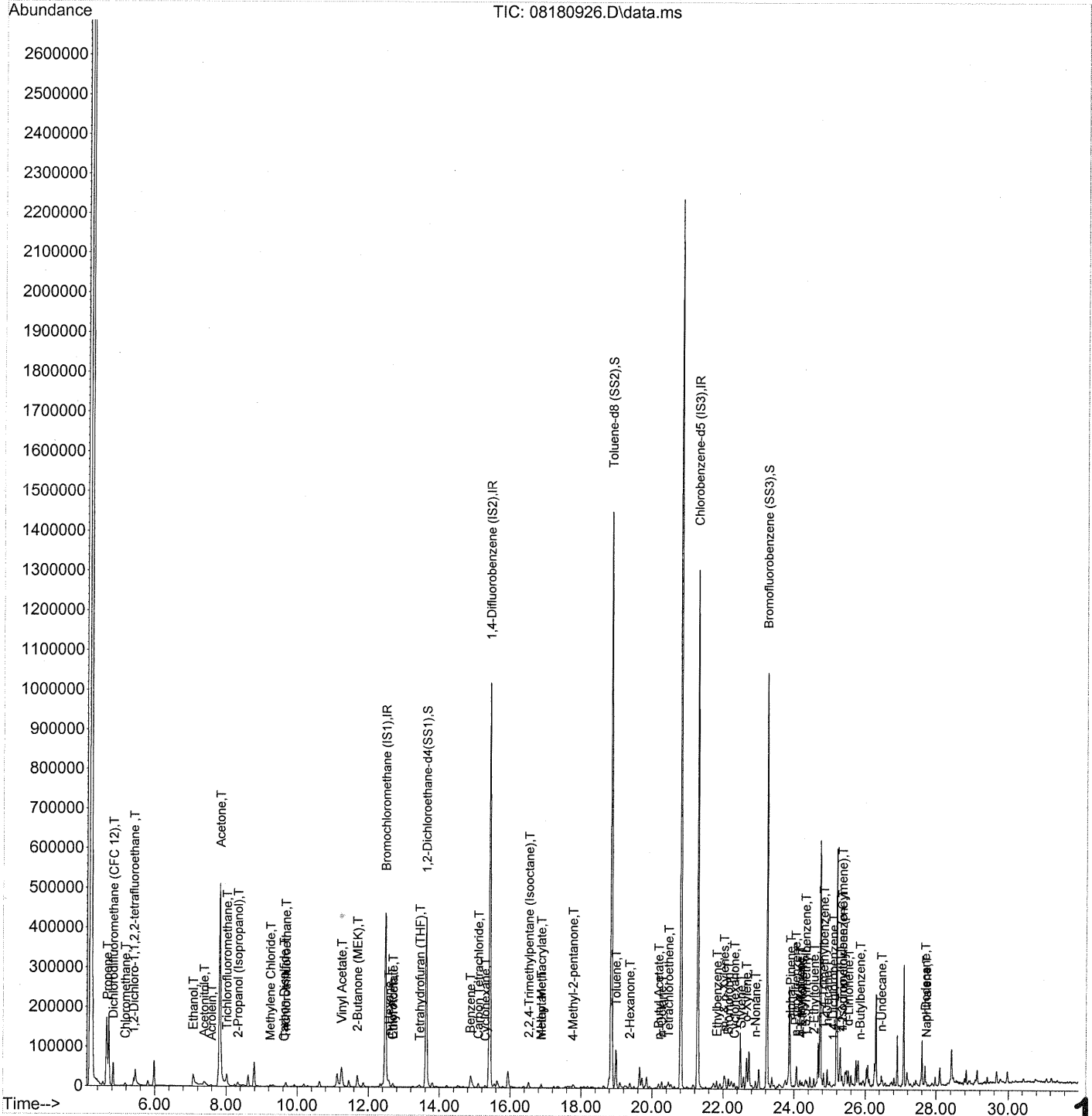
Date: _____

8/25/09

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Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 16:50:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163 ✓
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 16:50:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	228042	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1152604	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	547187	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	460756	23.246	ng	-0.03
Spiked Amount	25.000			Recovery =	93.00%	✓
57) Toluene-d8 (SS2)	18.85	98	1252412	26.195	ng	-0.02
Spiked Amount	25.000			Recovery =	104.76%	✓
73) Bromofluorobenzene (SS3)	23.23	174	329790	26.156	ng	-0.01
Spiked Amount	25.000			Recovery =	104.64%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	11162	0.713	ng	# 53
3) Dichlorodifluoromethan...	4.84	85	60941	2.383	ng	98
4) Chloromethane	5.18	50	7240	0.421	ng	88
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	792	0.076	ng	# 44
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	7.07	45	97788	9.858	ng	99
11) Acetonitrile	7.38	41	29241	1.007	ng	94
12) Acrolein	7.59	56	5666	0.750	ng	98
13) Acetone	7.82	58	308104	32.920	ng	# 84
14) Trichlorofluoromethane	8.02	101	24541	1.061	ng	98
15) 2-Propanol (Isopropanol)	8.33	45	33065m	0.899	ng	
16) Acrylonitrile	8.61	53	202	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.32	59	1188	N.D.		
19) Methylene Chloride	9.25	84	2039	0.162	ng	94
20) 3-Chloro-1-propene (Al...	9.34	41	694	N.D.		
21) Trichlorotrifluoroethane	9.67	151	4530	0.539	ng	97
22) Carbon Disulfide	9.63	76	2860	0.065	ng	# 74
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.22	73	303	N.D.		
26) Vinyl Acetate	11.24	86	8439	4.431	ng	# 59
27) 2-Butanone (MEK)	11.70	72	14400	1.704	ng	97
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.70	61	1081	0.246	ng	98
31) n-Hexane	12.58	57	7054	0.313	ng	84

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8/22/09

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 16:50:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	3051	0.154 ng		89
34) Tetrahydrofuran (THF)	13.44	72	1330	0.148 ng	#	45
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.78	62	366	N.D.		
38) 1,1,1-Trichloroethane	14.18	97	434	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.01	56	297	N.D.		
41) Benzene	14.87	78	17843	0.352 ng		99
42) Carbon Tetrachloride	15.10	117	6964	0.431 ng		96
43) Cyclohexane	15.29	84	1714	0.092 ng	#	80
44) tert-Amyl Methyl Ether	16.11	73	317	N.D.		
45) 1,2-Dichloropropane	15.93	63	282	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	15559	0.261 ng		88
50) Methyl Methacrylate	16.88	100	476	0.102 ng	#	1
51) n-Heptane	16.88	71	2225	0.164 ng		90
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	1808	0.148 ng		81
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	61244	1.303 ng		99
59) 2-Hexanone	19.37	43	12493	0.400 ng		88
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	8393	0.228 ng		85
63) n-Octane	20.27	57	3295	0.290 ng	#	92
64) Tetrachloroethene	20.46	166	5331	0.490 ng		100
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.82	91	16564	0.308 ng		97
67) m- & p-Xylenes	22.03	91	33947	0.781 ng		99
68) Bromoform	22.15	173	1480	0.160 ng		79
69) Styrene	22.51	104	4888	0.156 ng		95
70) o-Xylene	22.65	91	12765	0.293 ng		97
71) n-Nonane	22.91	43	8905	0.308 ng		95
72) 1,1,2,2-Tetrachloroethane	22.65	83	451	N.D.		
74) Cumene	23.41	105	1280	N.D.		
75) alpha-Pinene	23.90	93	11037	0.391 ng	#	42
76) n-Propylbenzene	24.05	91	4657	0.067 ng	#	81
77) 3-Ethyltoluene	24.17	105	9776	0.186 ng		93
78) 4-Ethyltoluene	24.22	105	4928	0.097 ng		100
79) 1,3,5-Trimethylbenzene	24.32	105	3070	0.071 ng		94

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 16:50:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

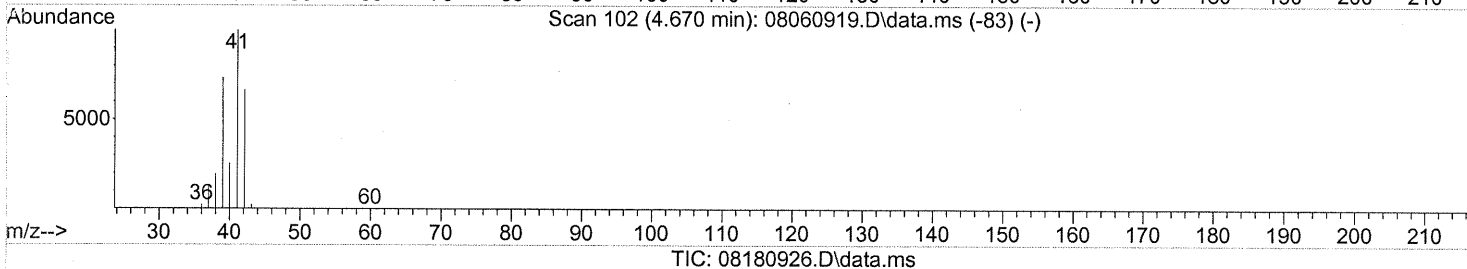
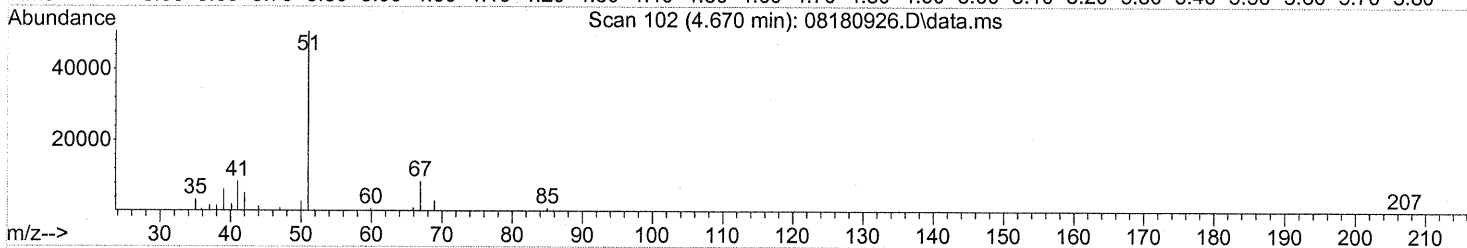
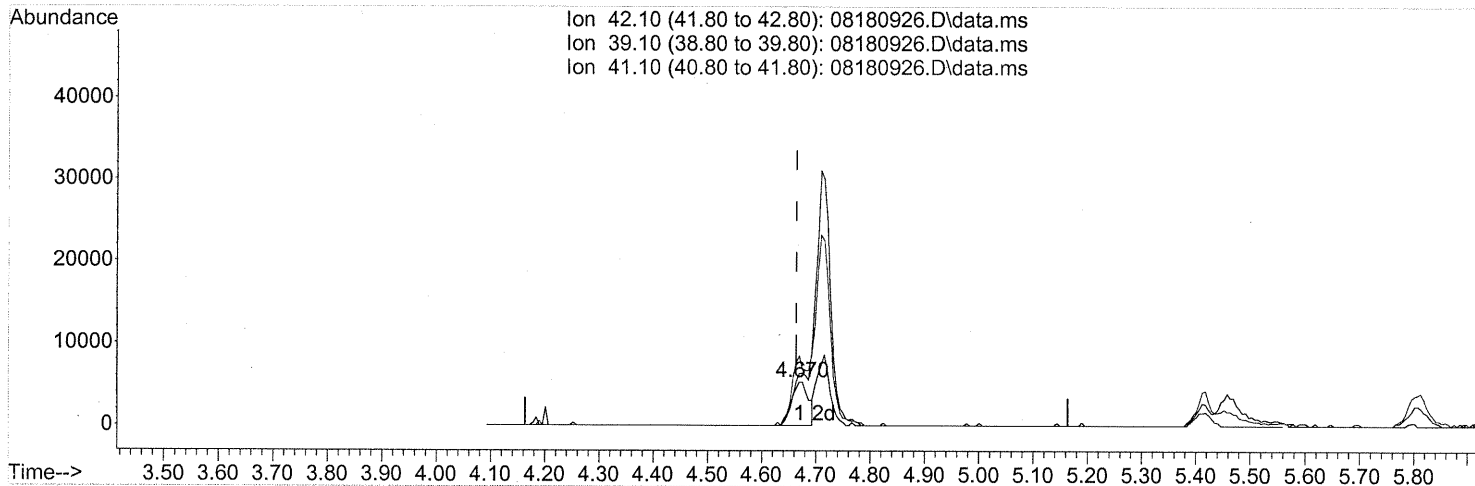
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	464	N.D.		
81) 2-Ethyltoluene	24.56	105	4295	0.081 ng		95
82) 1,2,4-Trimethylbenzene	24.83	105	11690	0.267 ng		80
83) n-Decane	24.93	57	19252	0.676 ng		86
84) Benzyl Chloride	25.00	91	94	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D. d		
86) 1,4-Dichlorobenzene	25.10	146	2438	0.103 ng		94
87) sec-Butylbenzene	25.18	105	308	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	2817	0.053 ng	#	56
89) 1,2,3-Trimethylbenzene	25.36	105	3383	0.076 ng		95
90) 1,2-Dichlorobenzene	0.00	146	0	N.D. d		
91) d-Limonene	25.53	68	9590	0.515 ng		91
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	10953	0.361 ng	#	75
94) 1,2,4-Trichlorobenzene	27.58	180	535	N.D.		
95) Naphthalene	27.73	128	8895	0.149 ng		98
96) n-Dodecane	27.70	57	17318	0.492 ng		93
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	7443	0.382 ng		93
99) tert-Butylbenzene	24.83	119	1286	N.D.		
100) n-Butylbenzene	25.86	91	2610	0.053 ng	#	56

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.670min (+0.006) 0.71ng
 response 11162

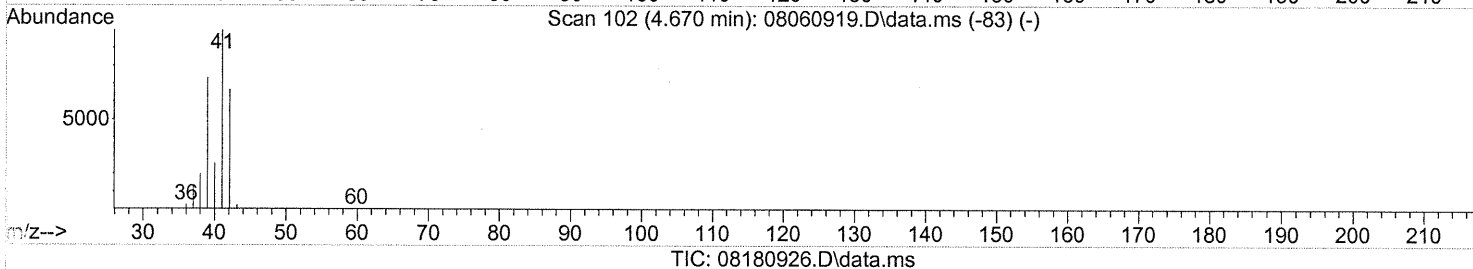
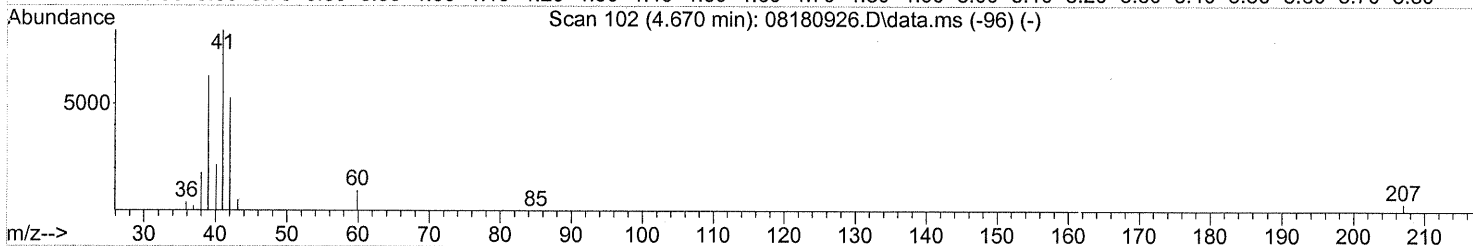
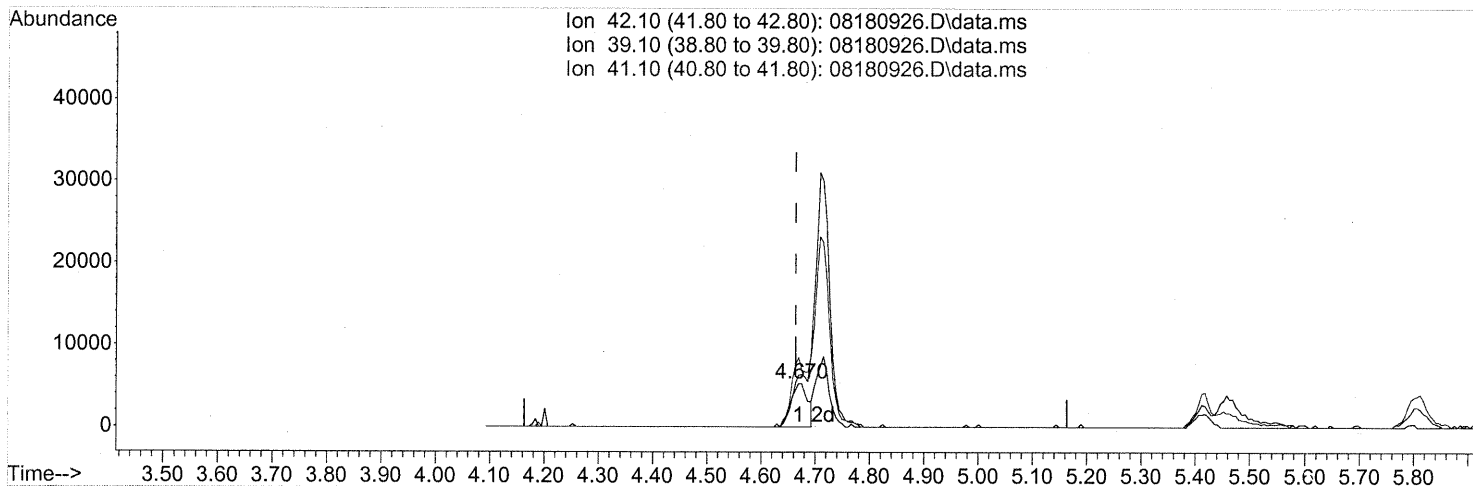
Ion	Exp%	Act%
42.10	100	100
39.10	111.90	0.00#
41.10	150.20	145.66
0.00	0.00	0.00

before

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.670min (+0.006) 0.71ng

response 11162

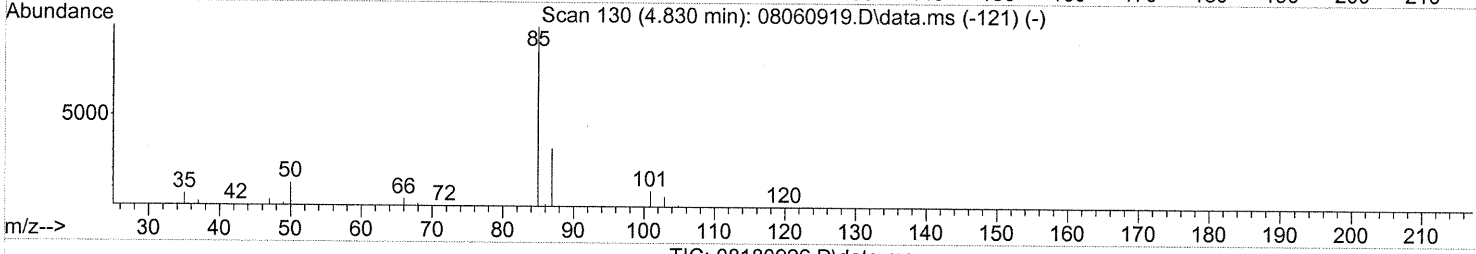
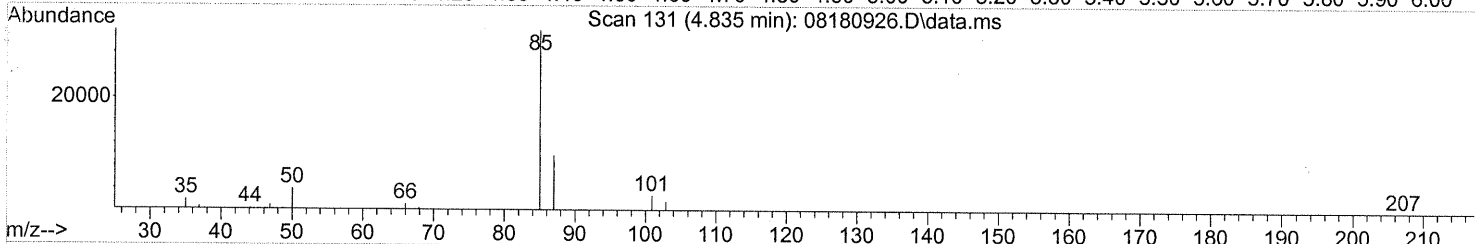
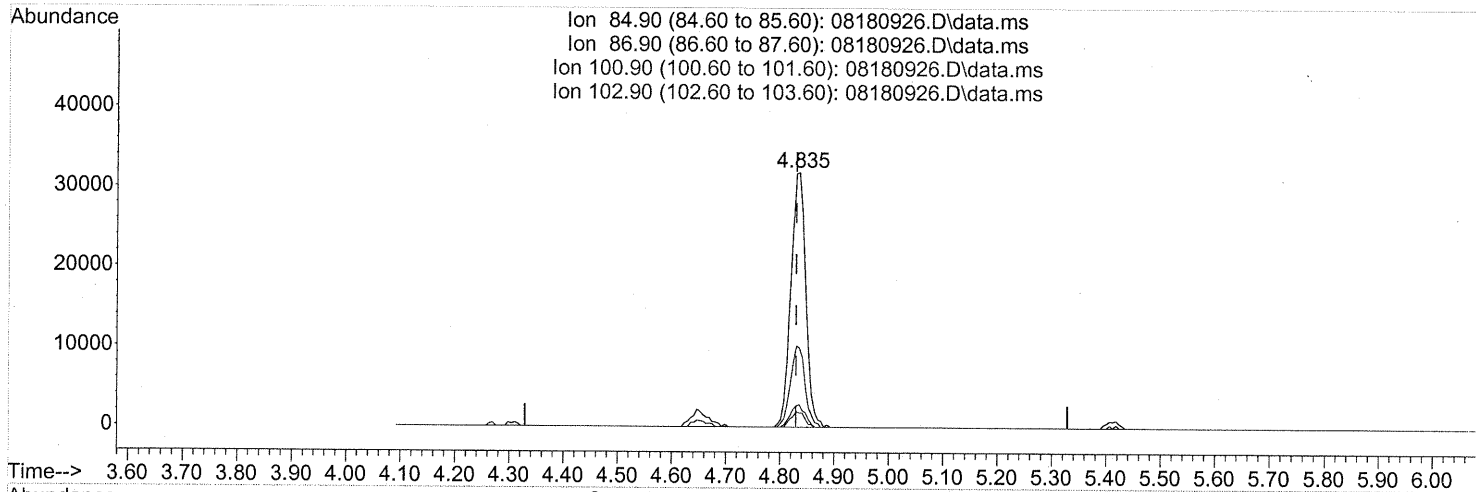
Ion	Exp%	Act%
42.10	100	100
39.10	111.90	0.00#
41.10	150.20	145.66
0.00	0.00	0.00

after substr.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.835min (+0.006) 2.38ng

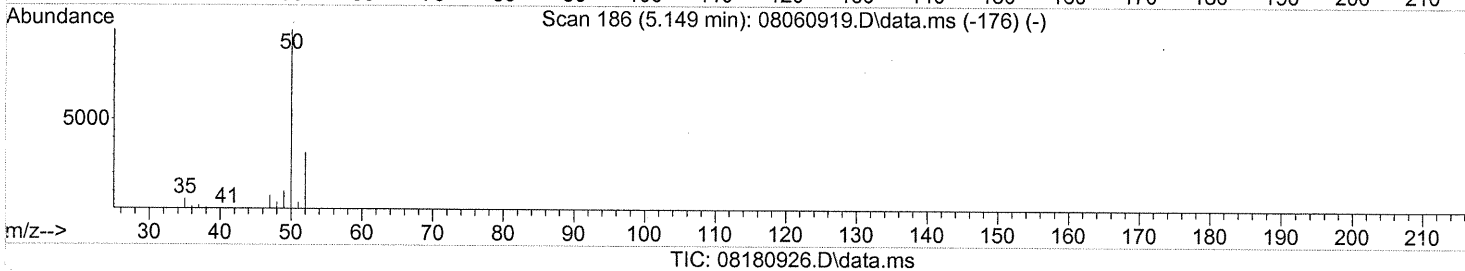
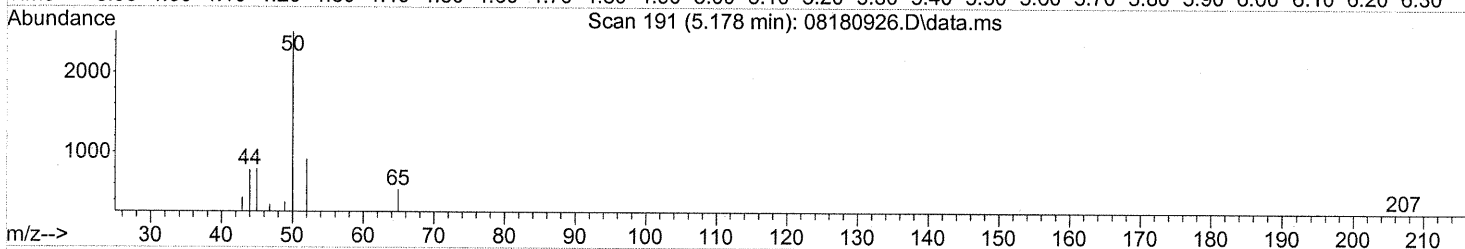
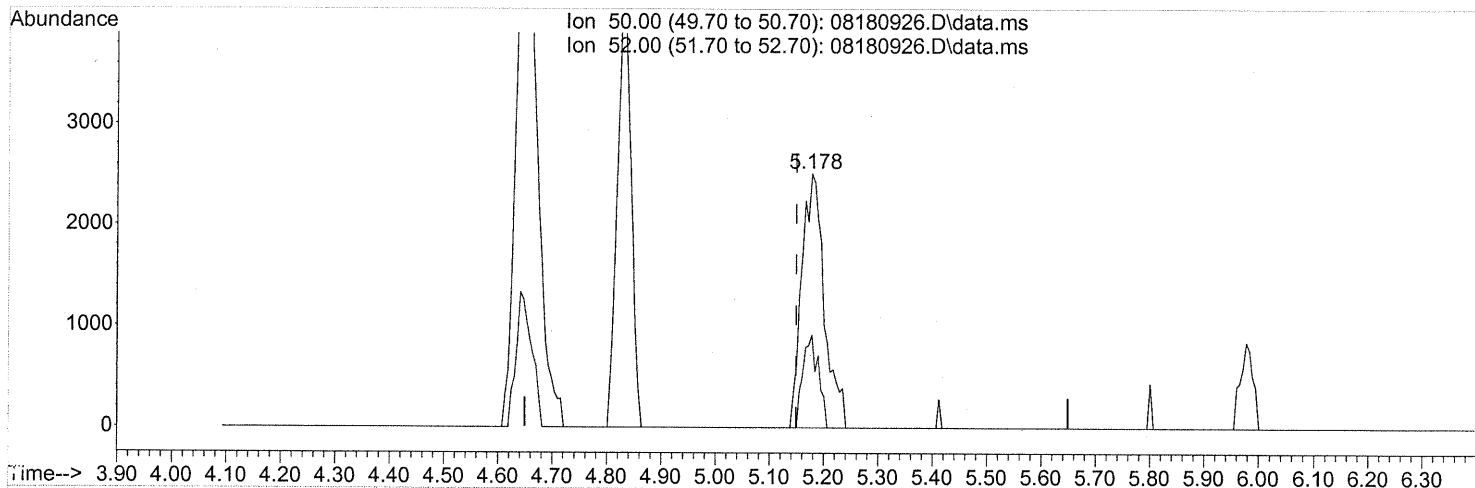
response 60941

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.34
100.90	8.80	8.53
102.90	5.20	5.50

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
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Sample : P0902766-004 (1000mL)
Misc : Env. Health & Engineering 101163
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(4) Chloromethane (T)

5.178min (+0.029) 0.42ng

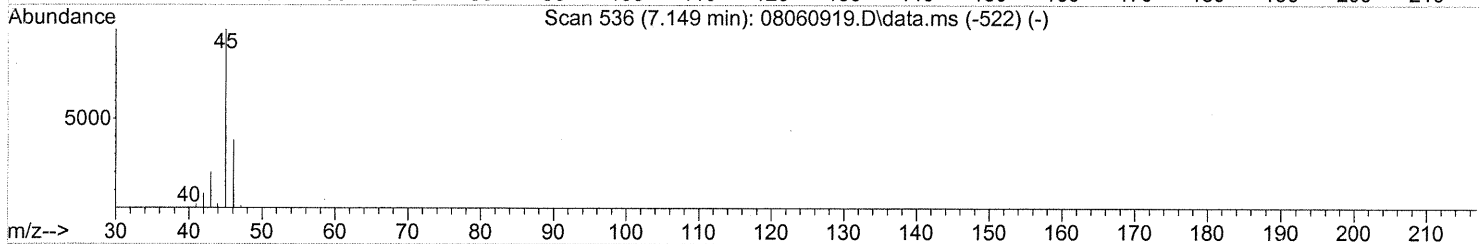
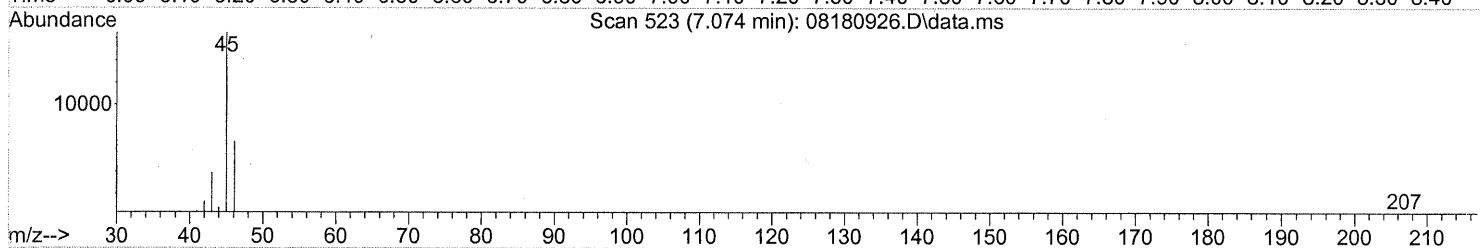
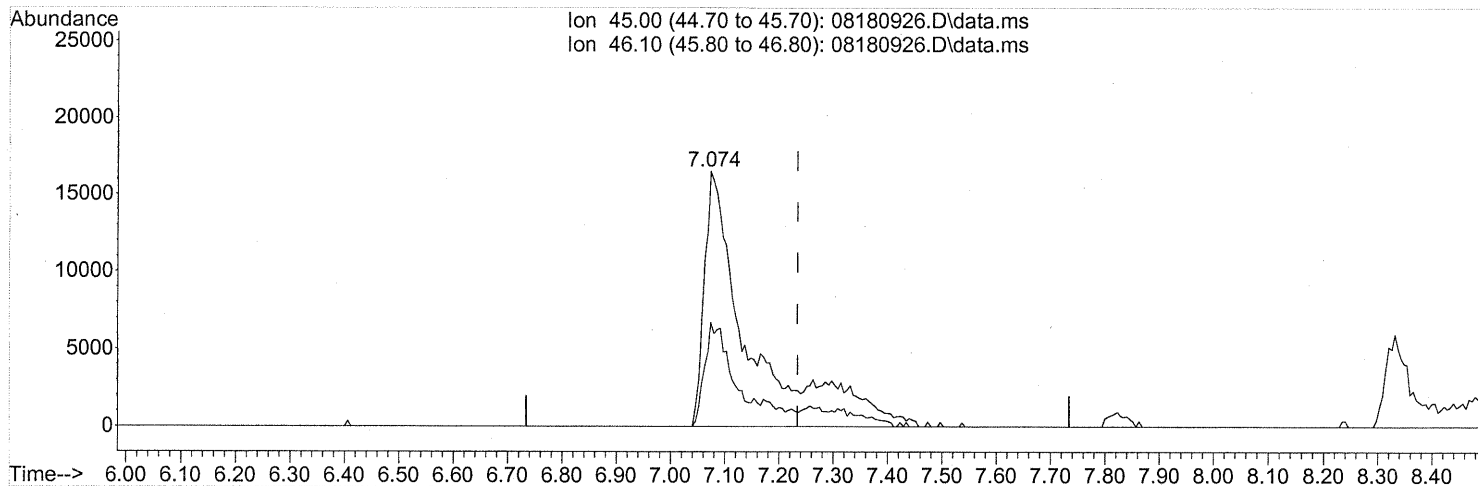
response 7240

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	25.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

(10) Ethanol (T)

7.074min (-0.160) 9.86ng

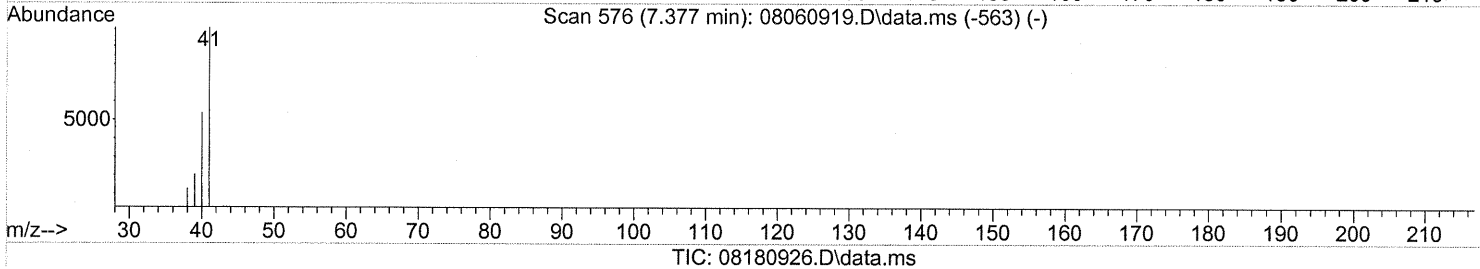
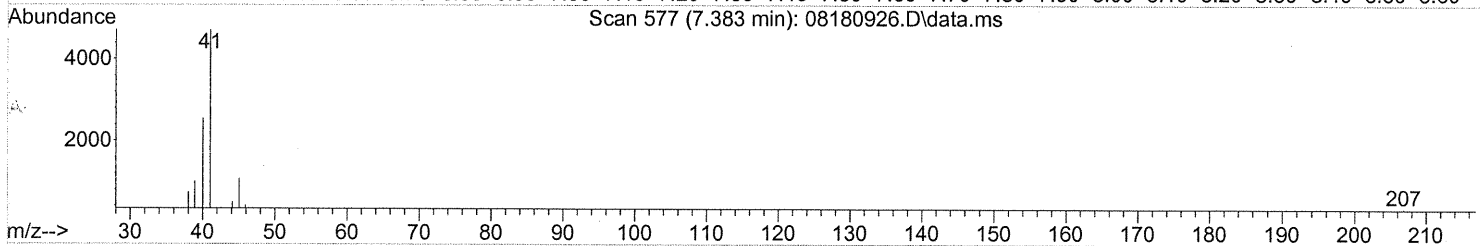
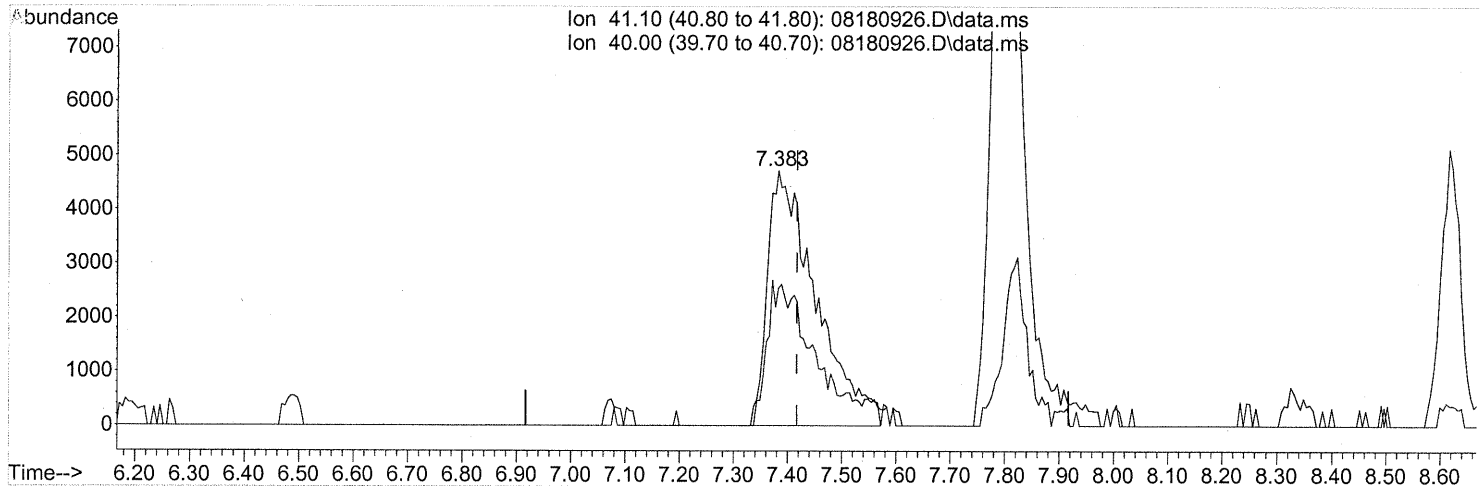
response 97788

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.383min (-0.034) 1.01ng

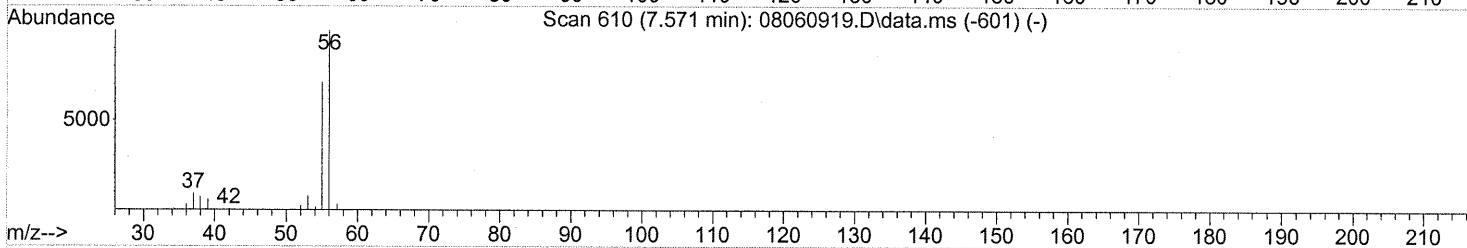
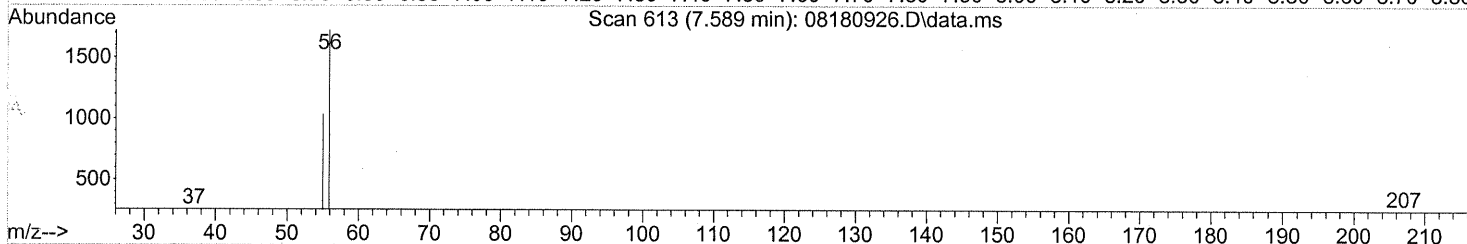
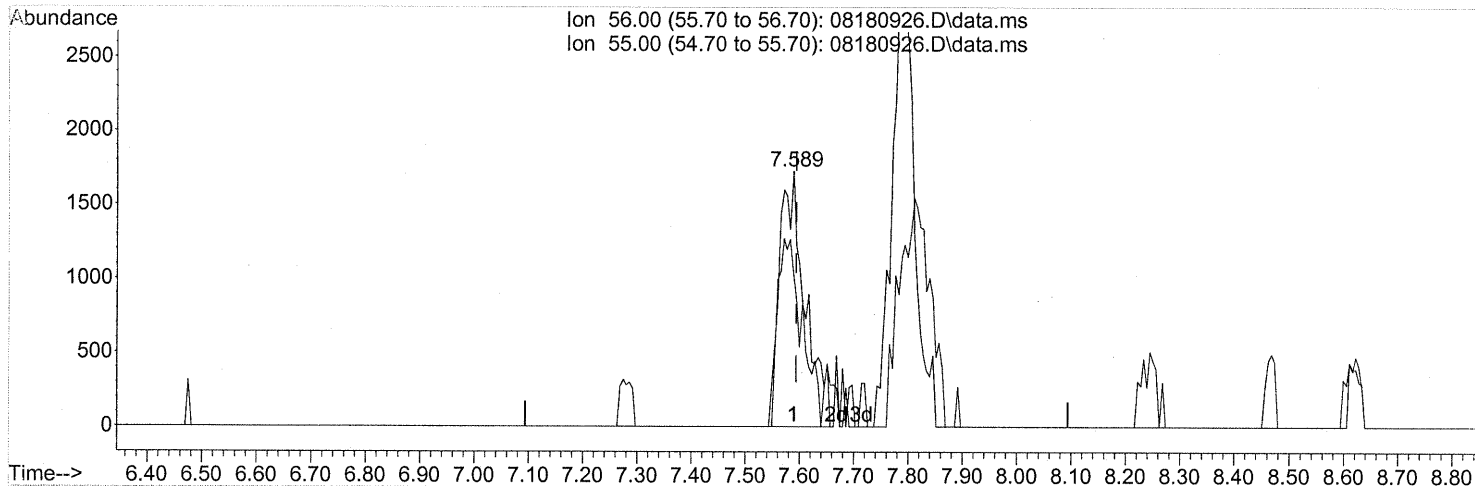
response 29241

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	57.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

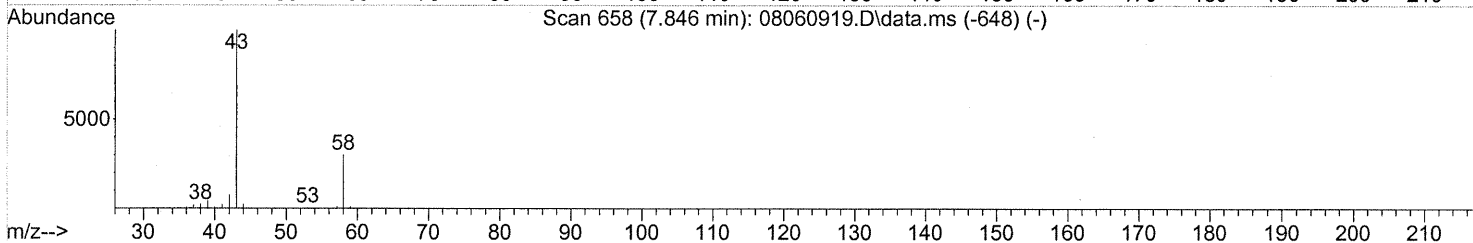
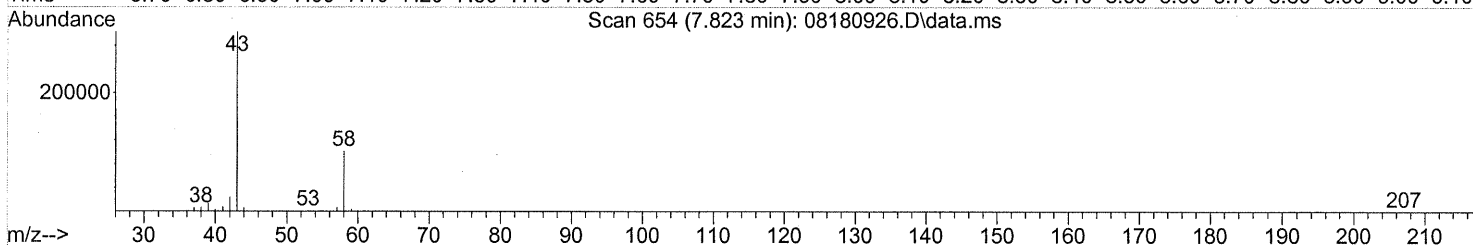
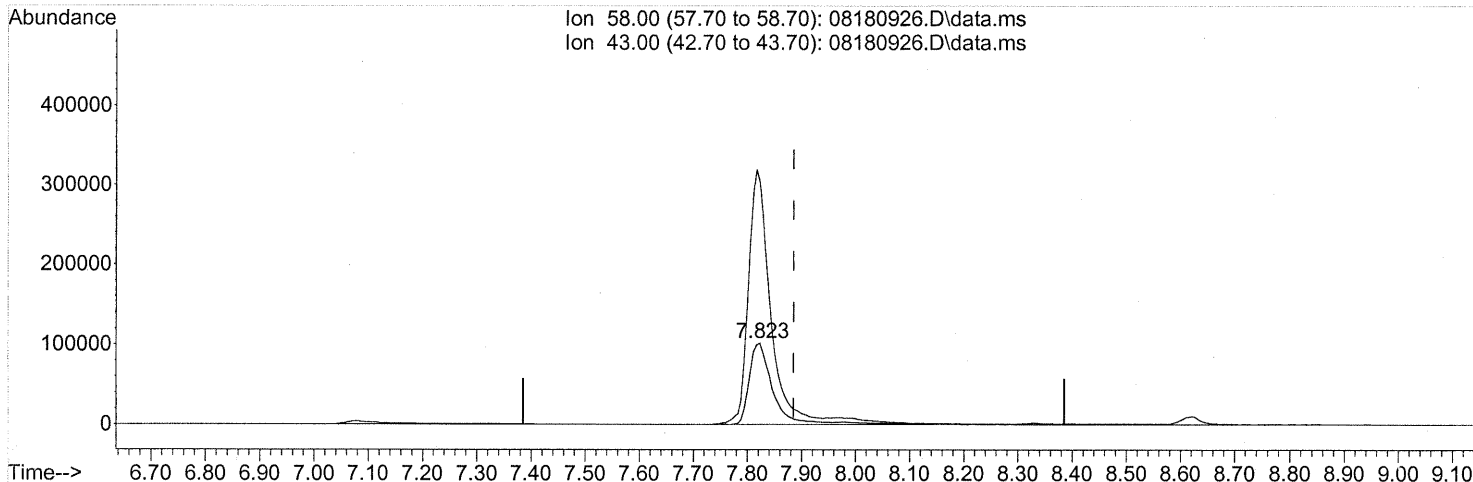
(12) Acrolein (T)
 7.589min (-0.006) 0.75ng
 response 5666

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	69.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



TIC: 08180926.D\data.ms

(13) Acetone (T)

7.823min (-0.063) 32.92ng

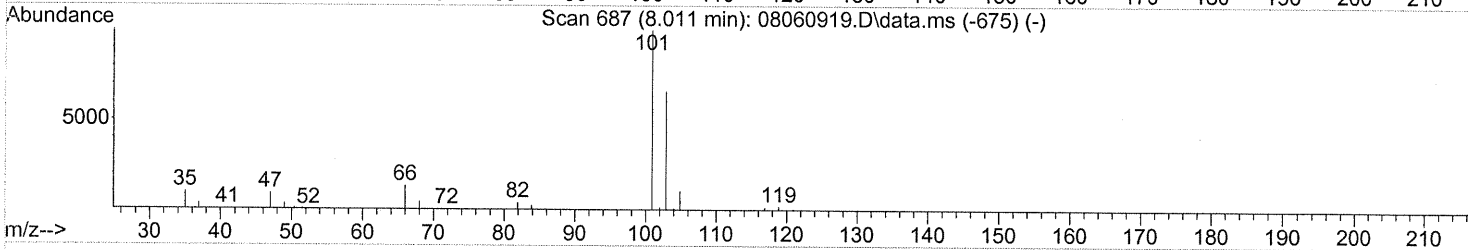
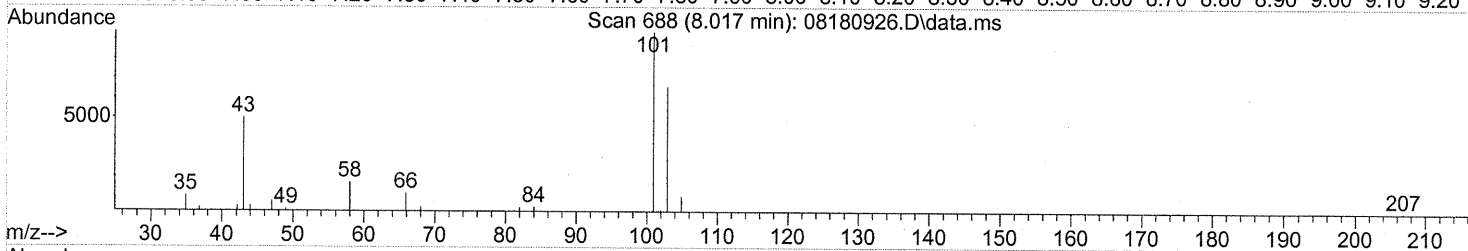
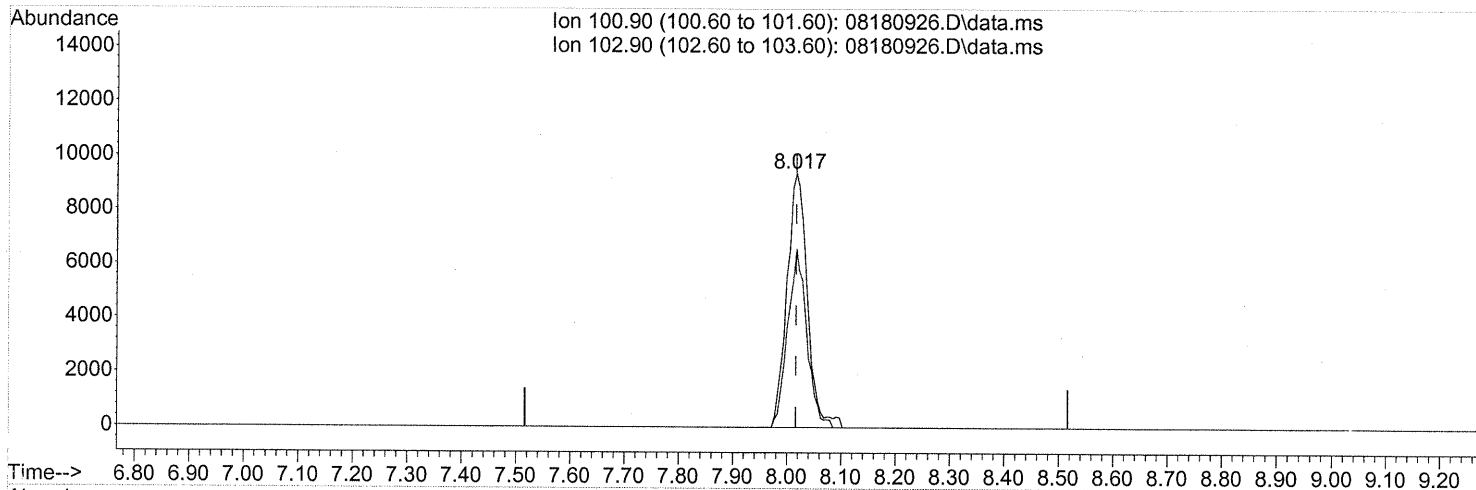
response 308104

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	306.51#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
Data File : 08180926.D
Acq On : 19 Aug 2009 8:01
Operator : WA
Sample : P0902766-004 (1000mL)
Misc : Env. Health & Engineering 101163
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Response via : Initial Calibration



TIC: 08180926.D\data.ms

(14) Trichlorofluoromethane (T)

8.017min (+0.000) 1.06ng

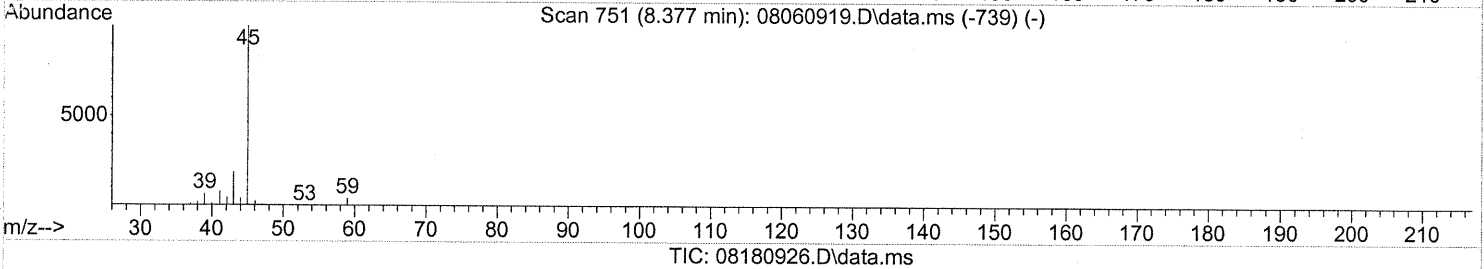
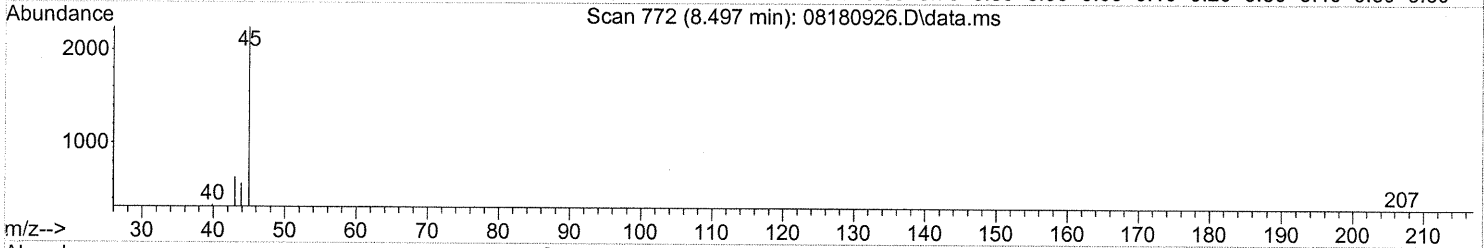
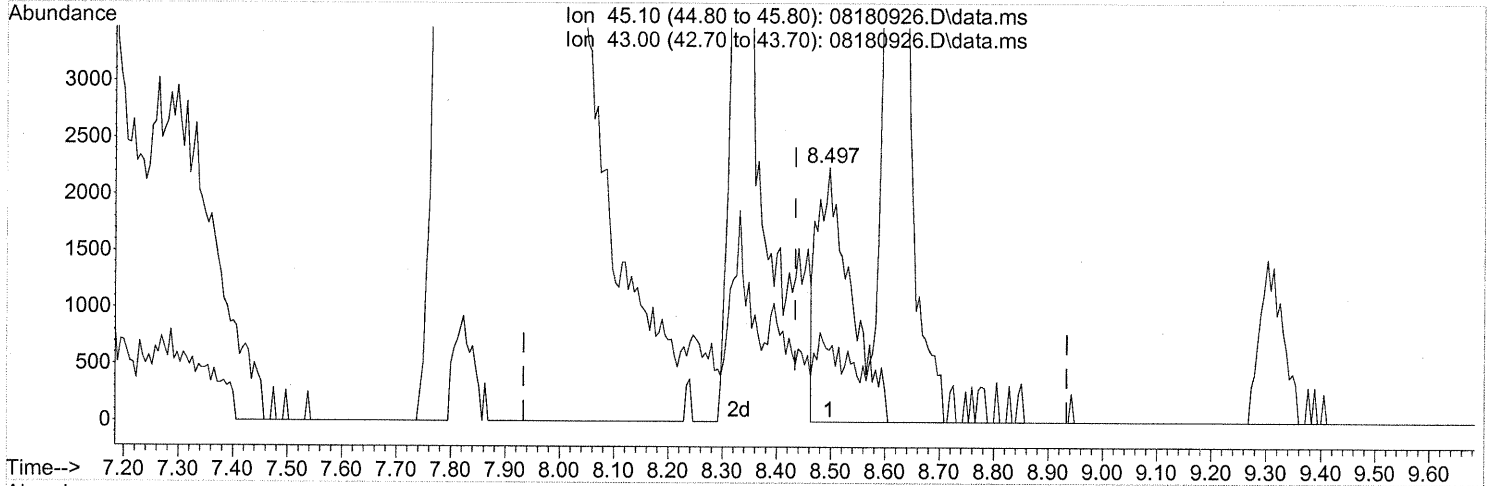
response 24541

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	65.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
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 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



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

8.497min (+0.063) 0.26ng

response 9657

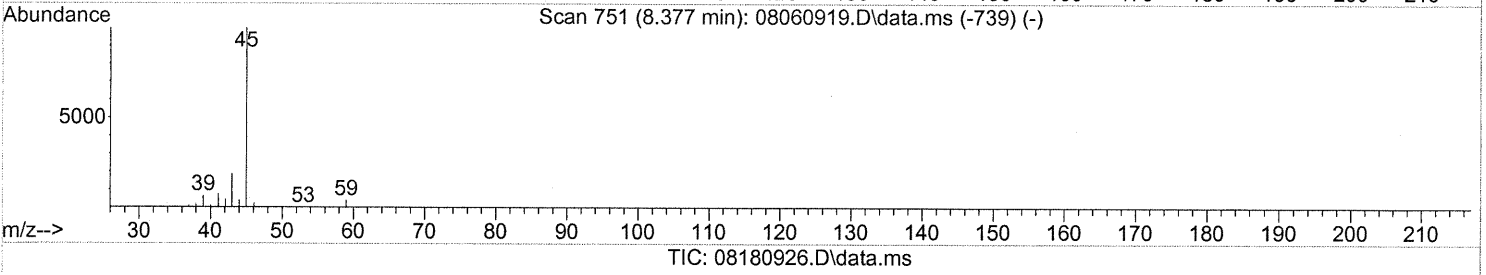
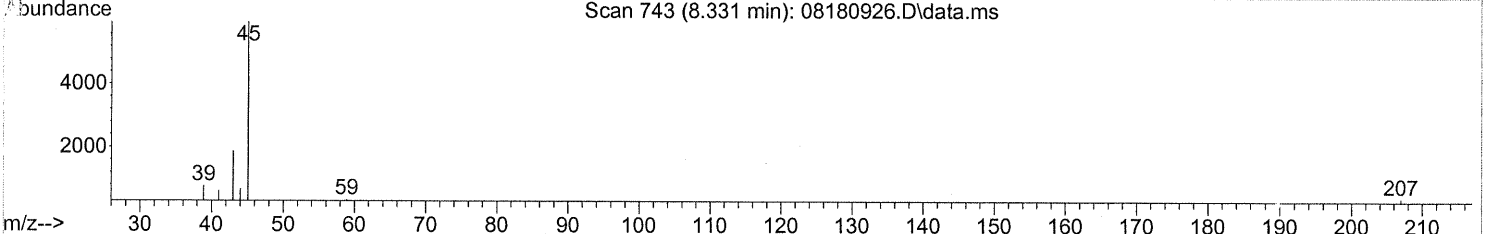
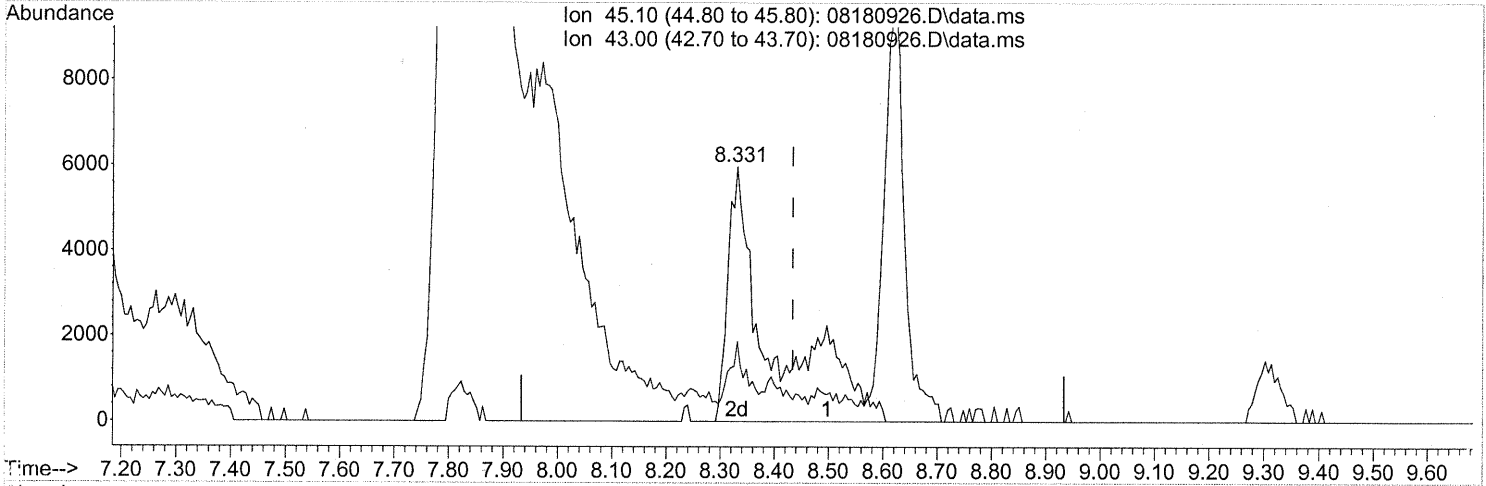
Ion	Exp%	Act%
45.10	100	100
43.00	19.00	19.44
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



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

8.331min (-0.103) 0.90ng m

response 33065

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	5.68
0.00	0.00	0.00
0.00	0.00	0.00

8P-71C

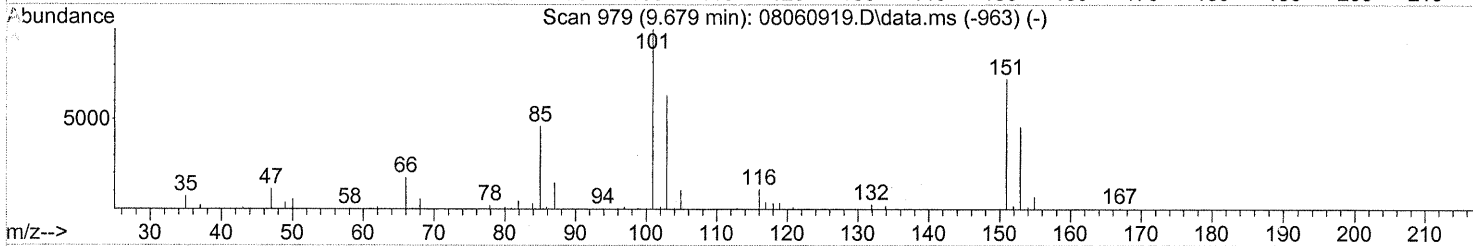
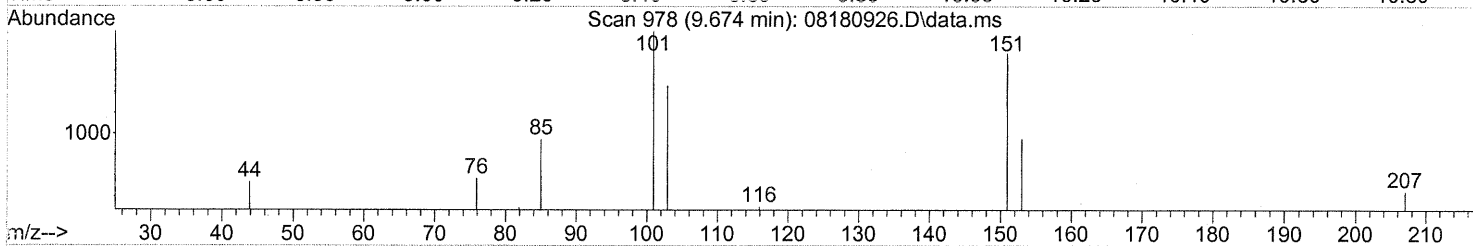
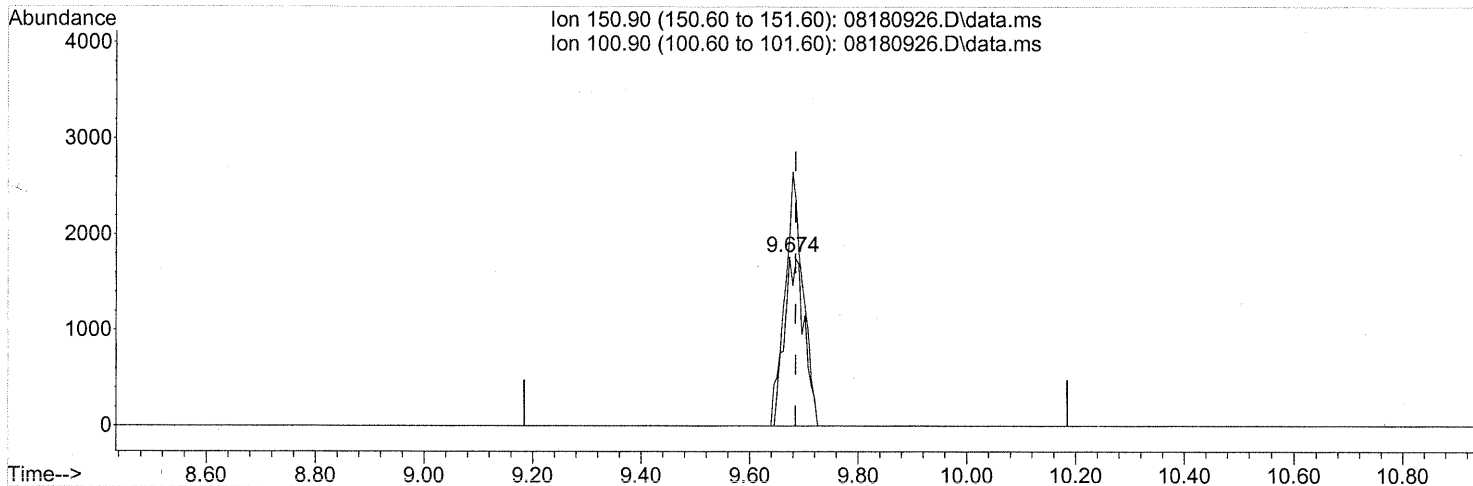
WA 8/22/09

Sam 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
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 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

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 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.674min (-0.011) 0.54ng

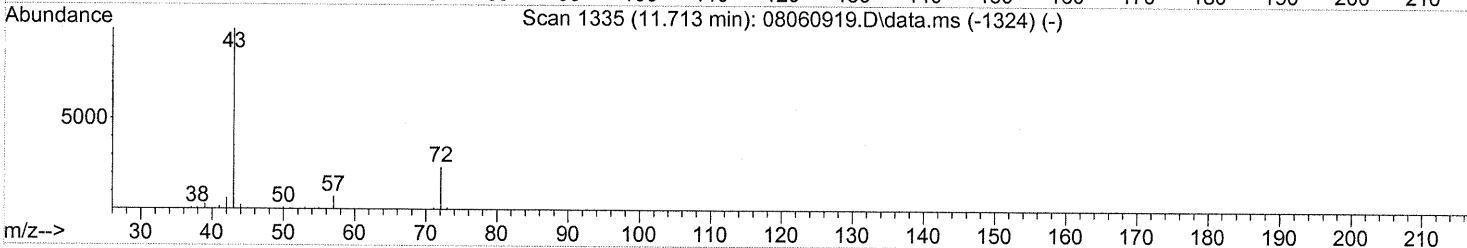
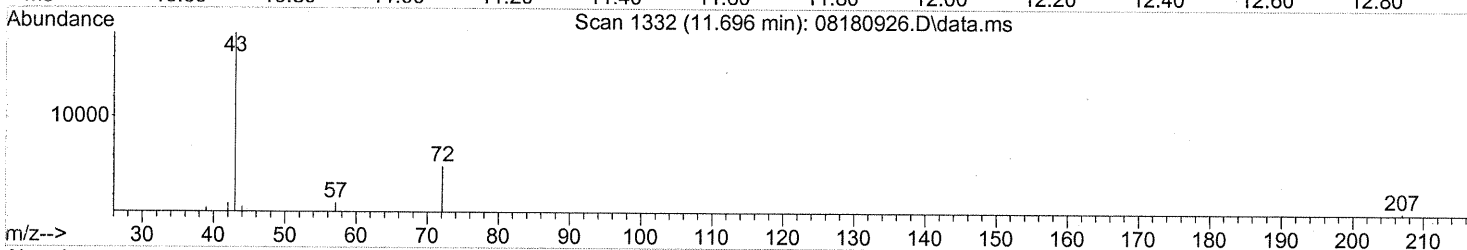
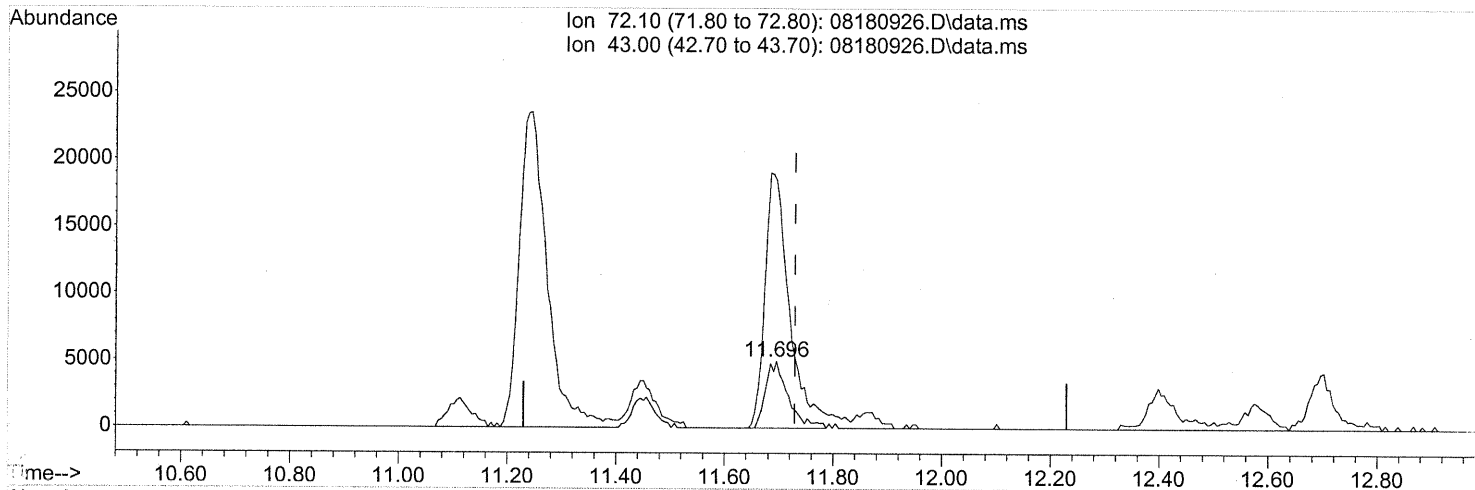
response 4530

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	135.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

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

11.696min (-0.034) 1.70ng

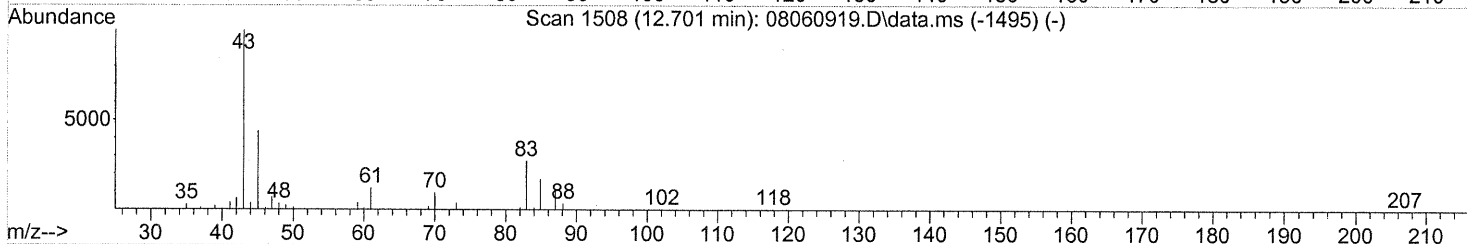
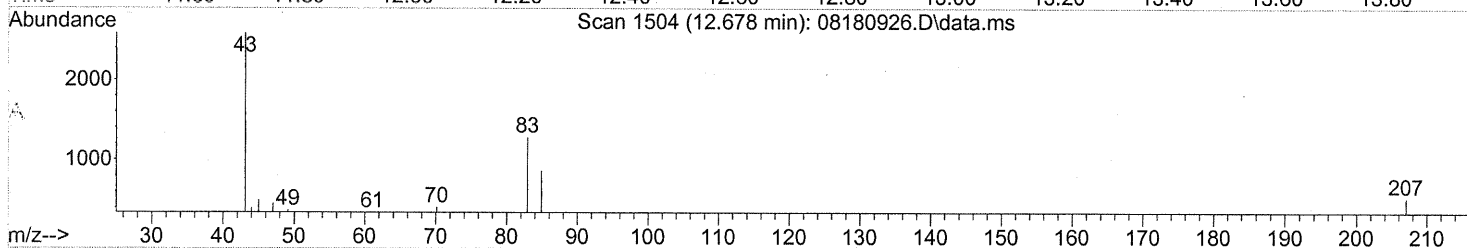
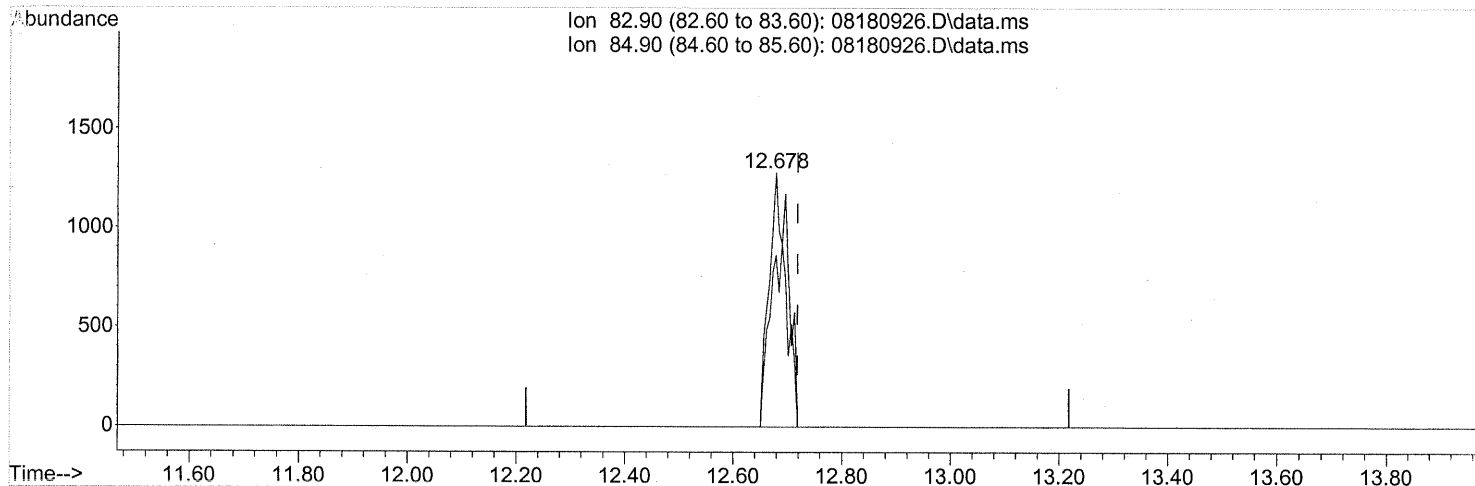
response 14400

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	429.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
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 ALS Vial : 11 Sample Multiplier: 1

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



TIC: 08180926.D\data.ms

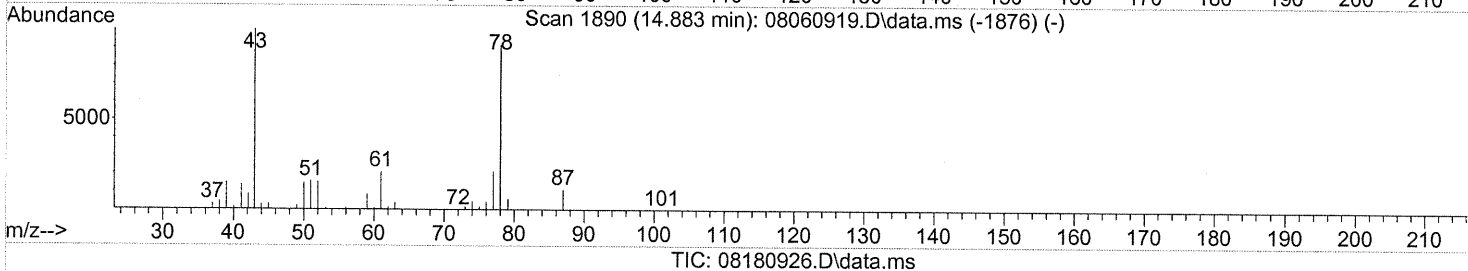
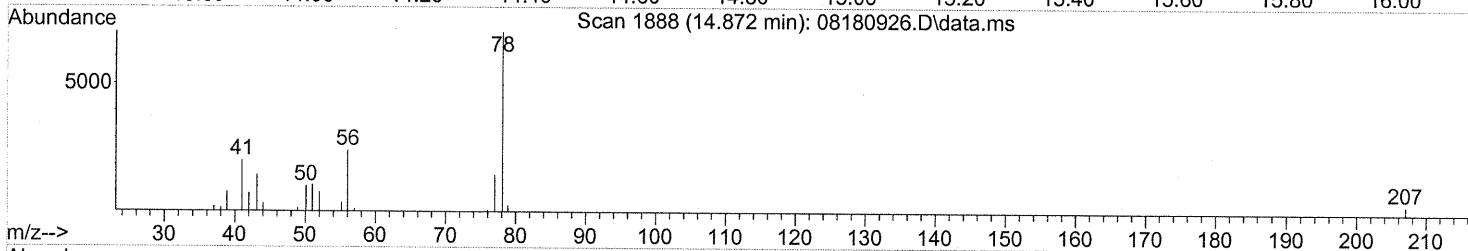
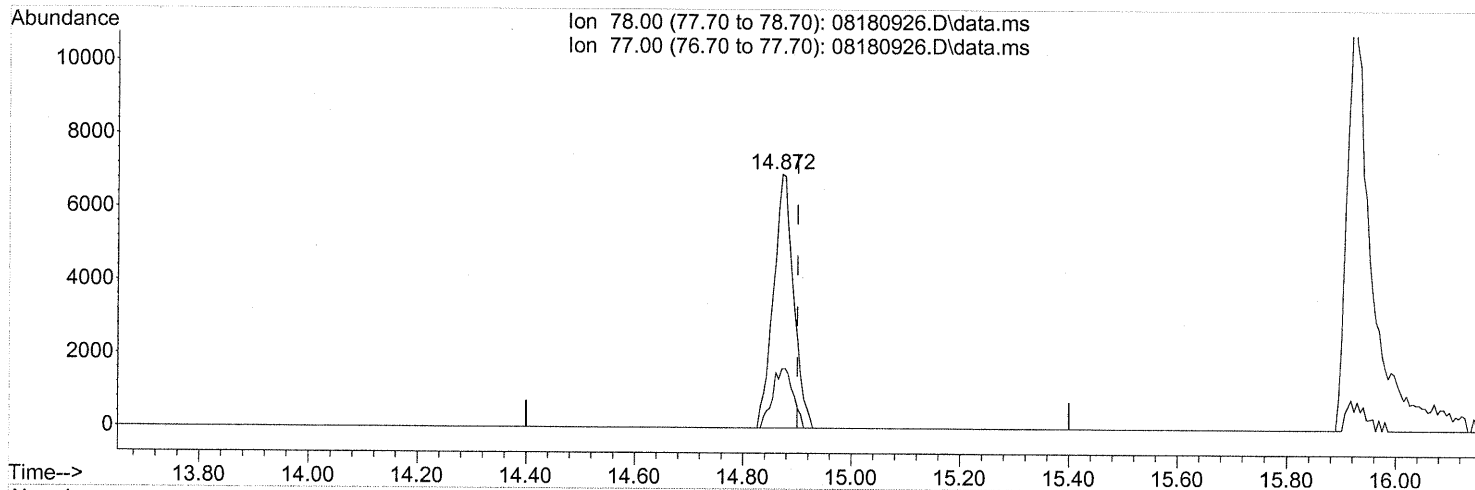
(32) Chloroform (T)
 12.678min (-0.040) 0.15ng
 response 3051

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	72.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



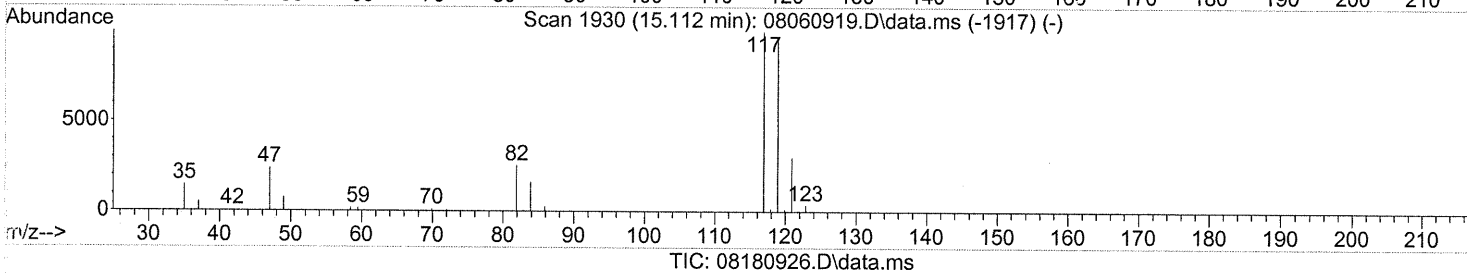
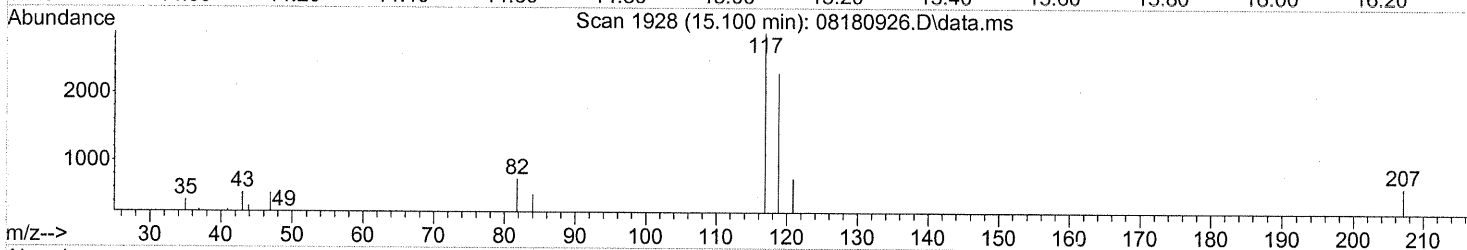
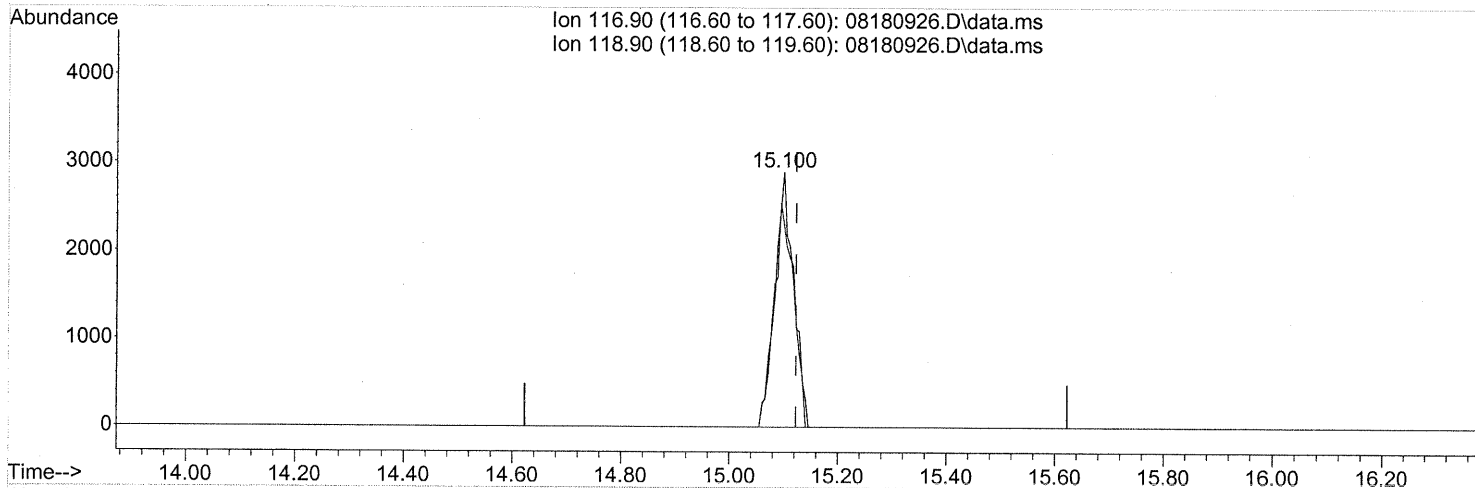
(41) Benzene (T)
 14.872min (-0.029) 0.35ng
 response 17843

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	24.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.43ng

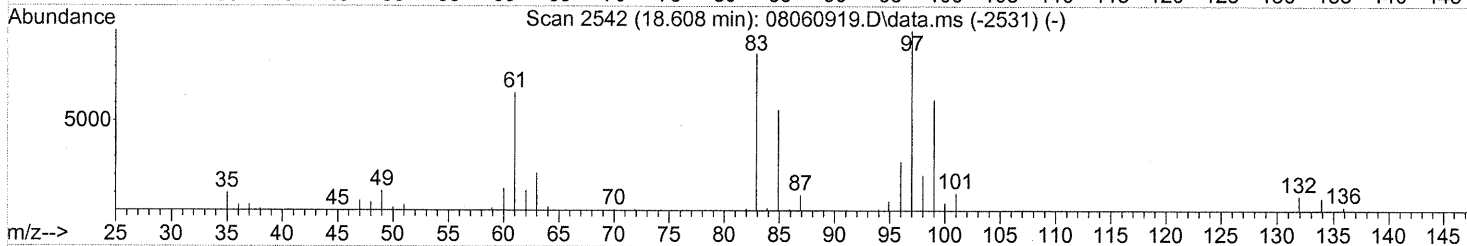
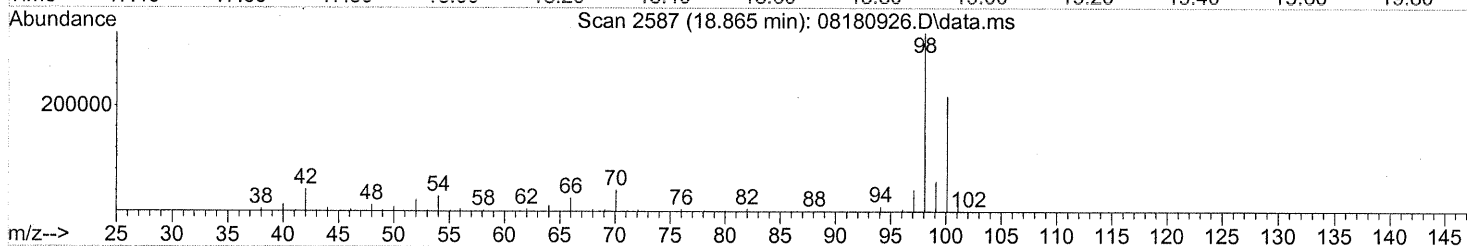
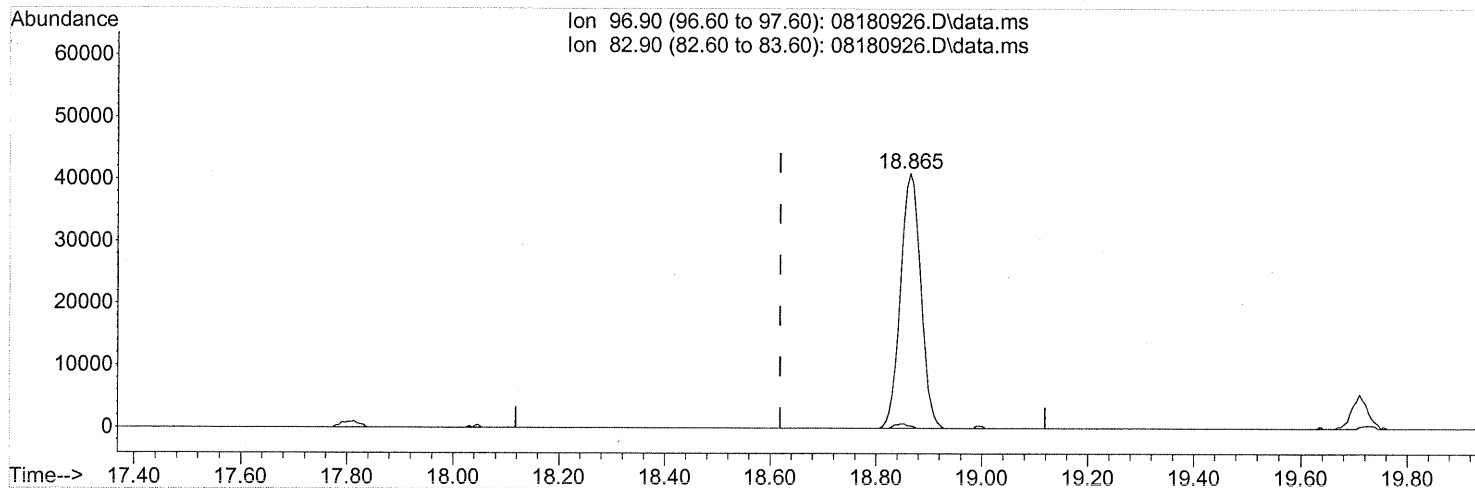
response 6964

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	92.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

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

18.865min (+0.246) 9.75ng

response 108519

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.19#
0.00	0.00	0.00
0.00	0.00	0.00

FP

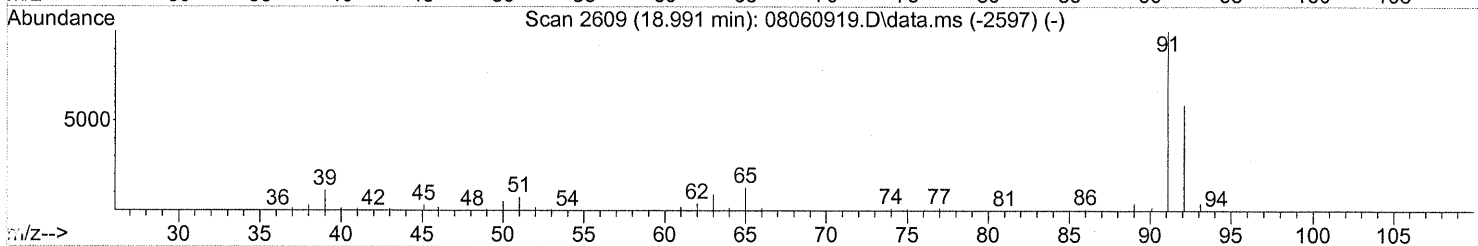
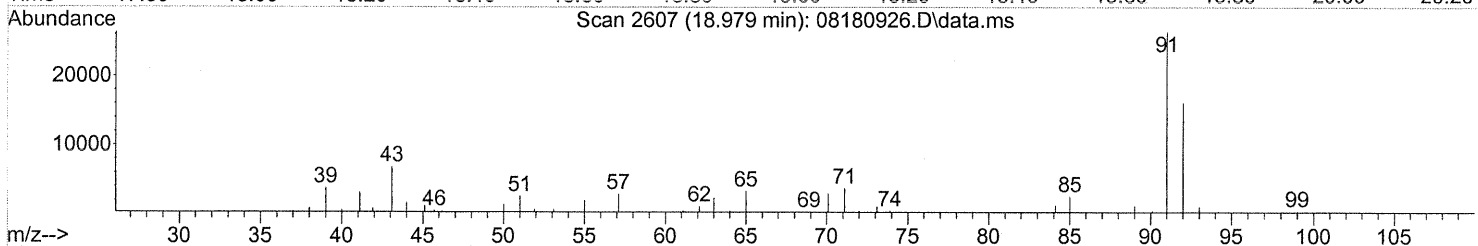
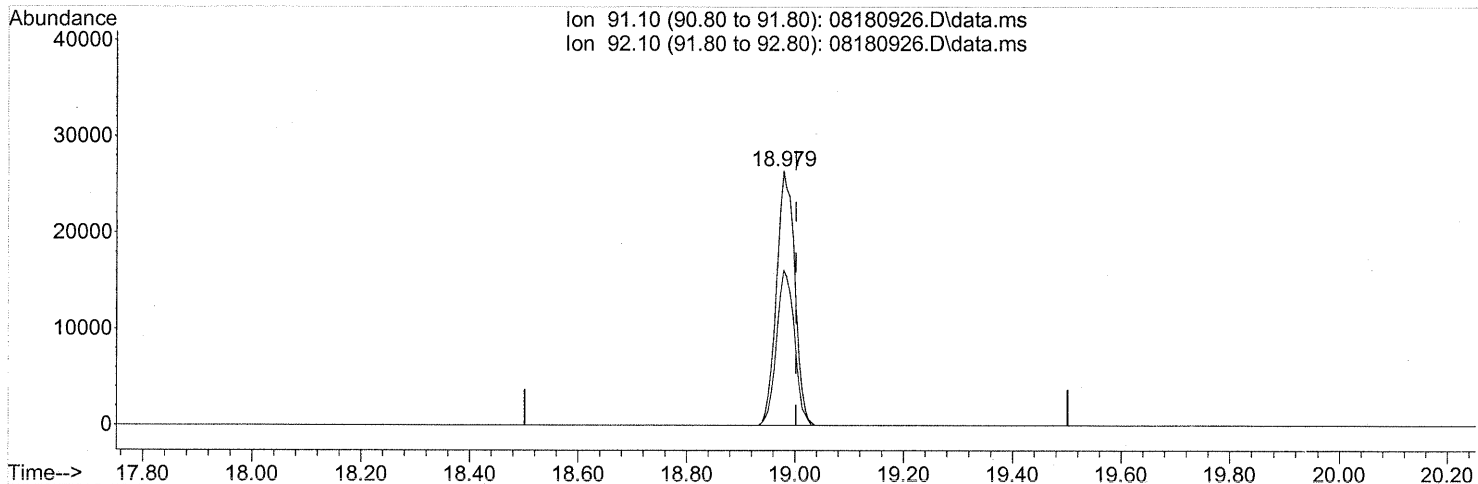
WA 8/22/09

Em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

(58) Toluene (T)

18.979min (-0.023) 1.30ng

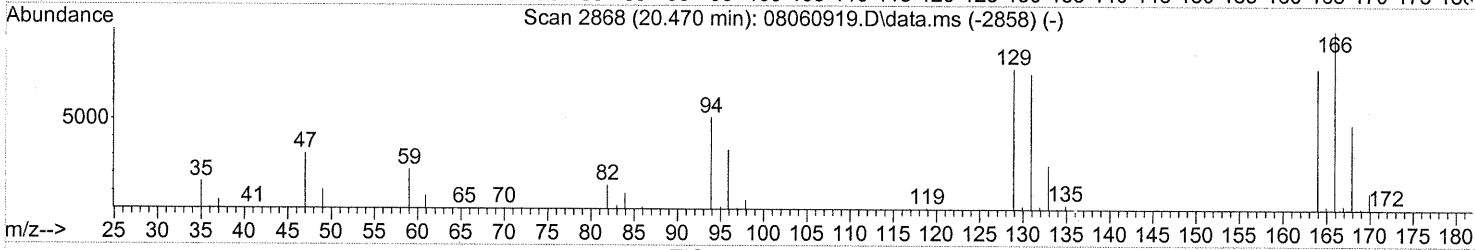
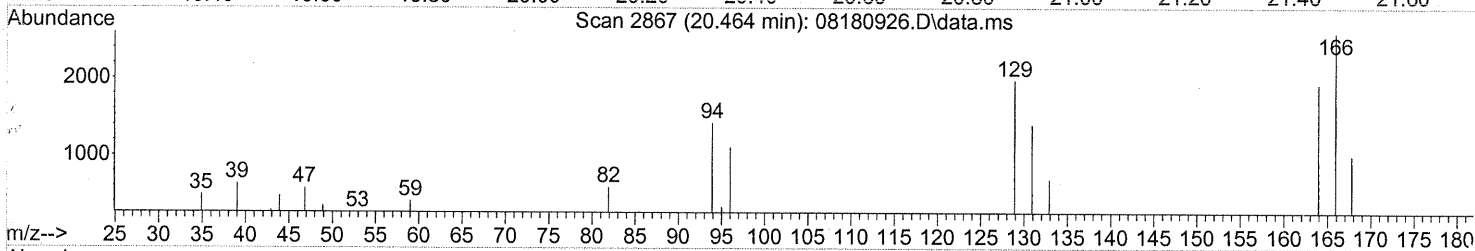
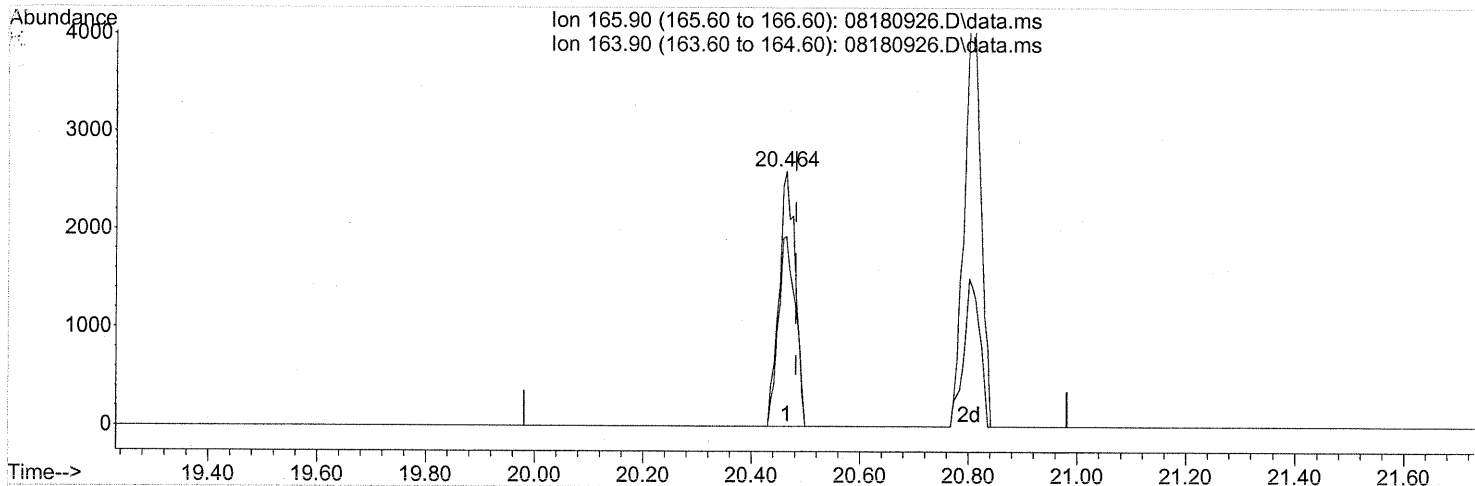
response 61244

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

(64) Tetrachloroethene (T)

20.464min (-0.017) 0.49ng

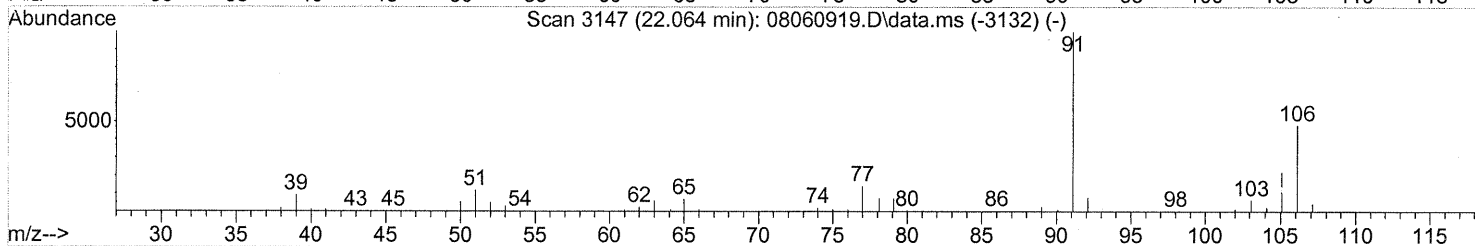
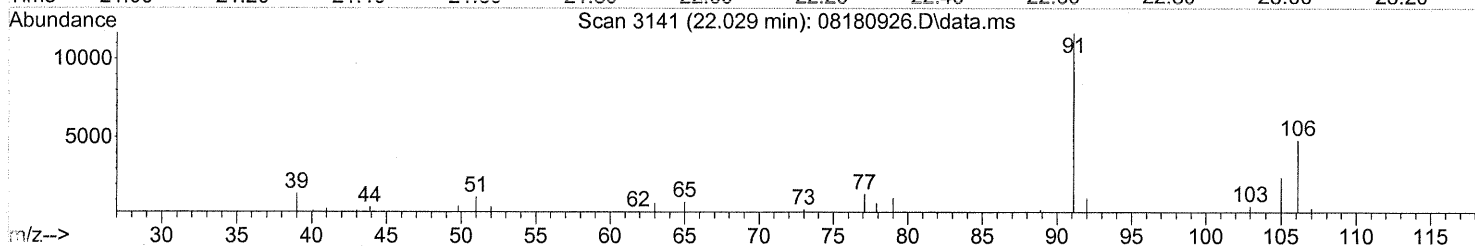
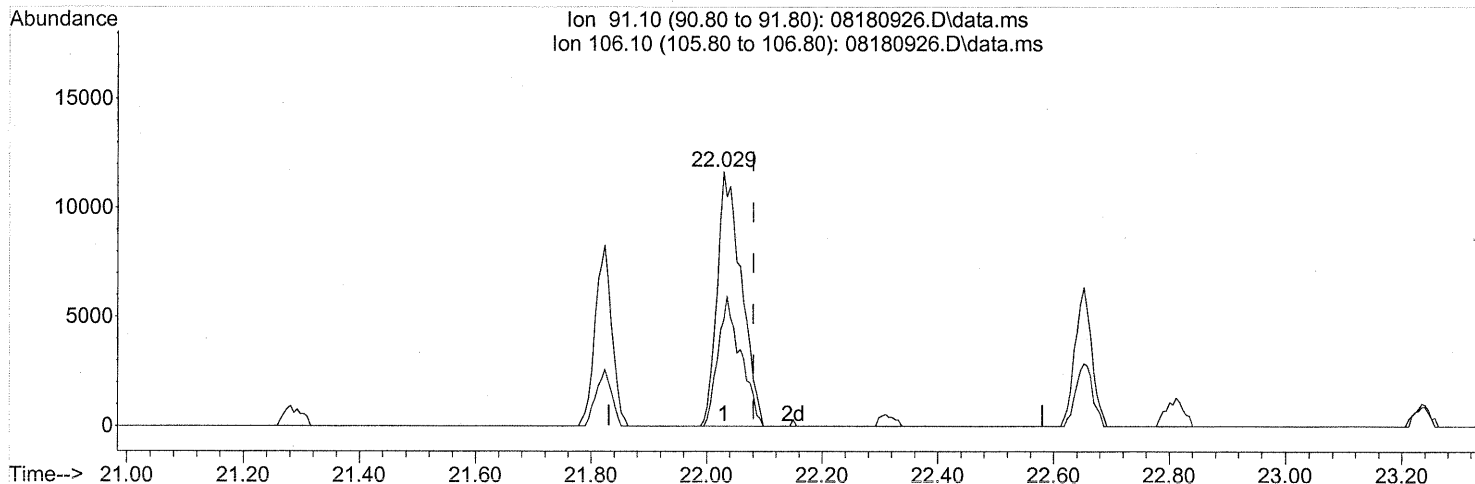
response 5331

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	78.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

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

22.029min (-0.051) 0.78ng

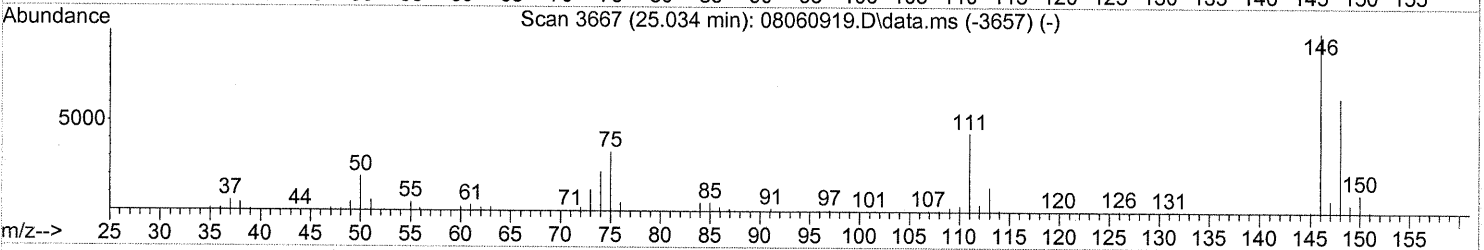
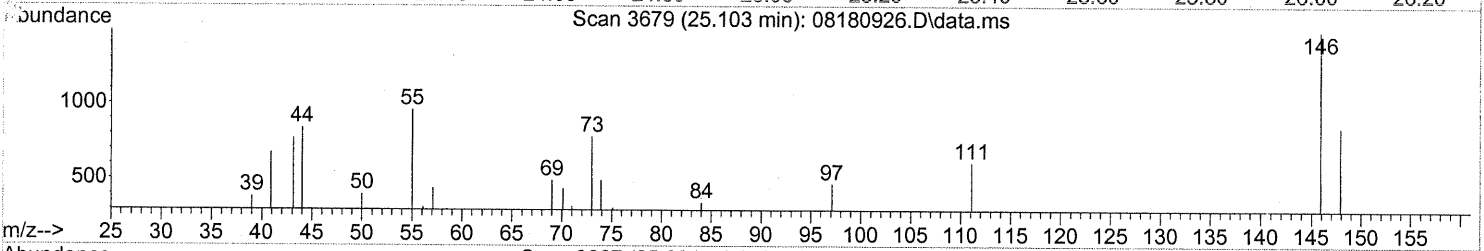
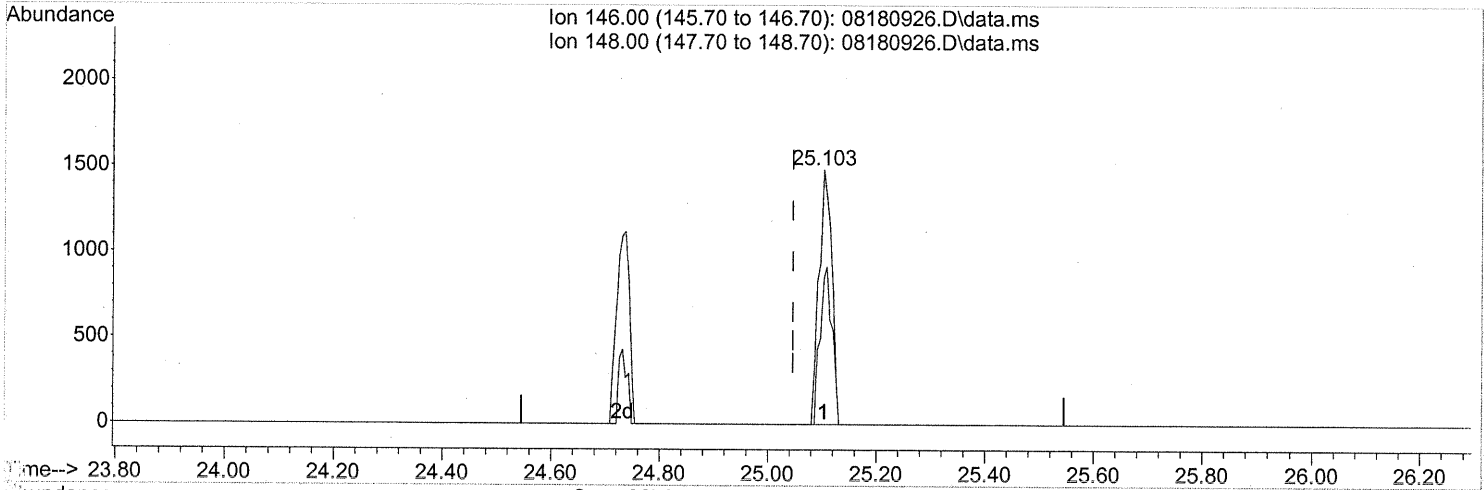
response 33947

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.103min (+0.057) 0.11ng

response 2438

Ion	Exp%	Act%
146.00	100	100
148.00	61.60	57.83
0.00	0.00	0.00
0.00	0.00	0.00

TP

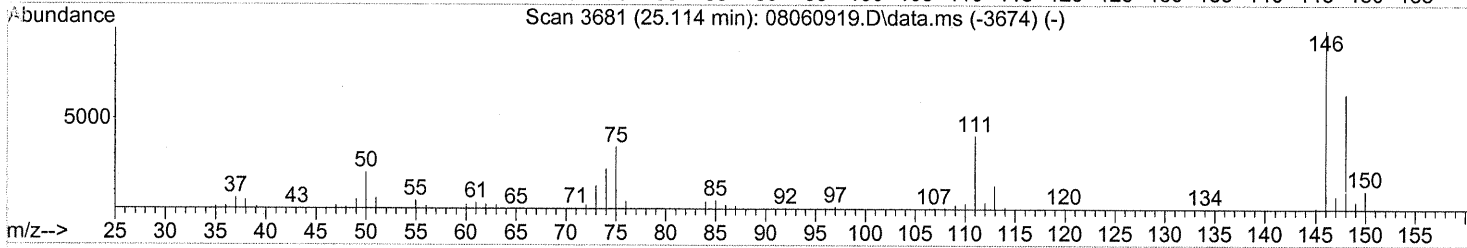
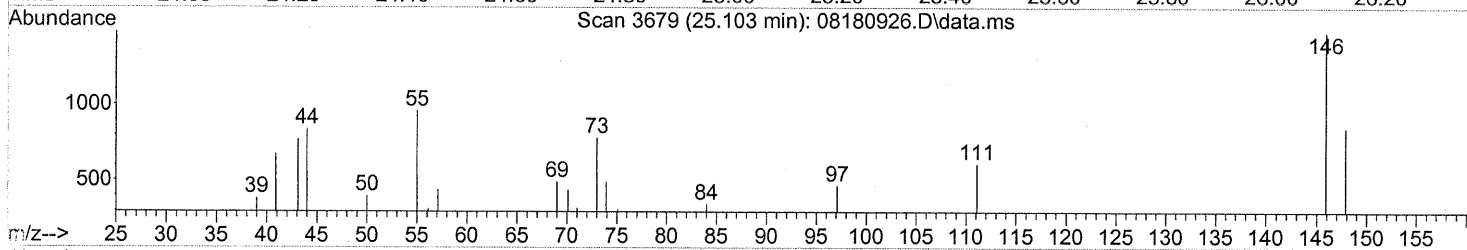
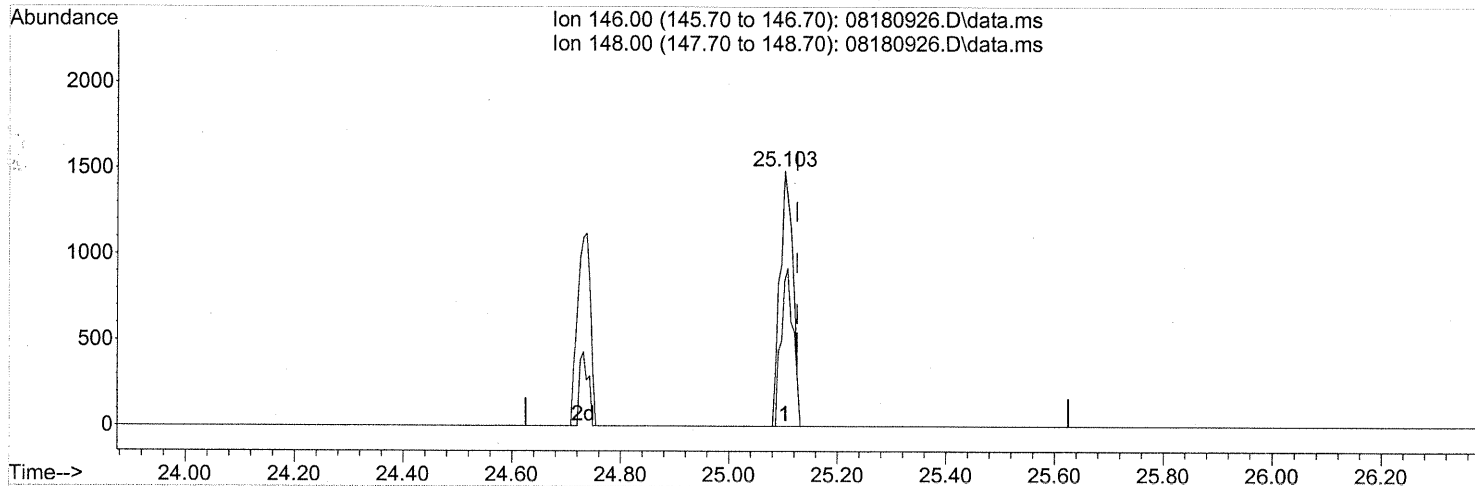
RA 8/22/09

Em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.10ng

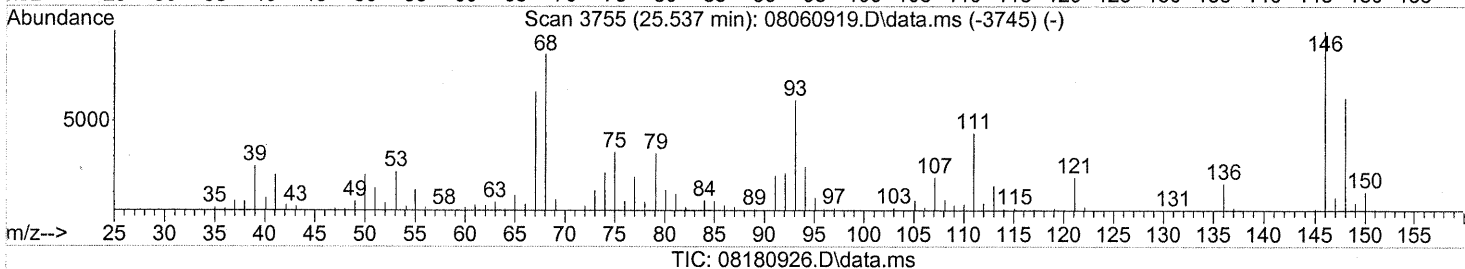
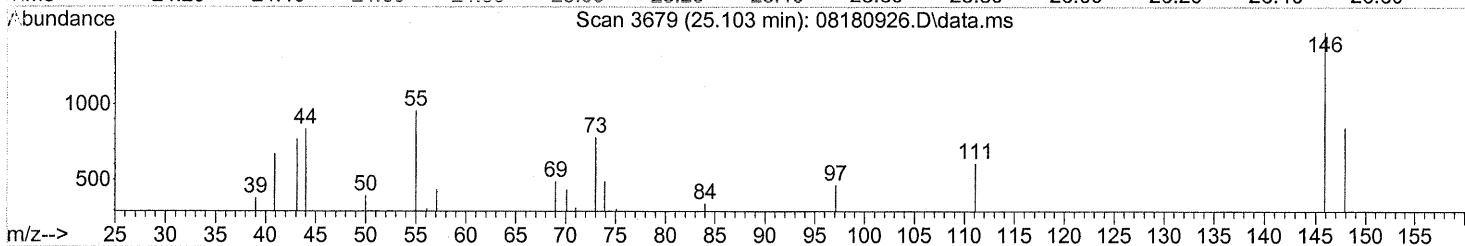
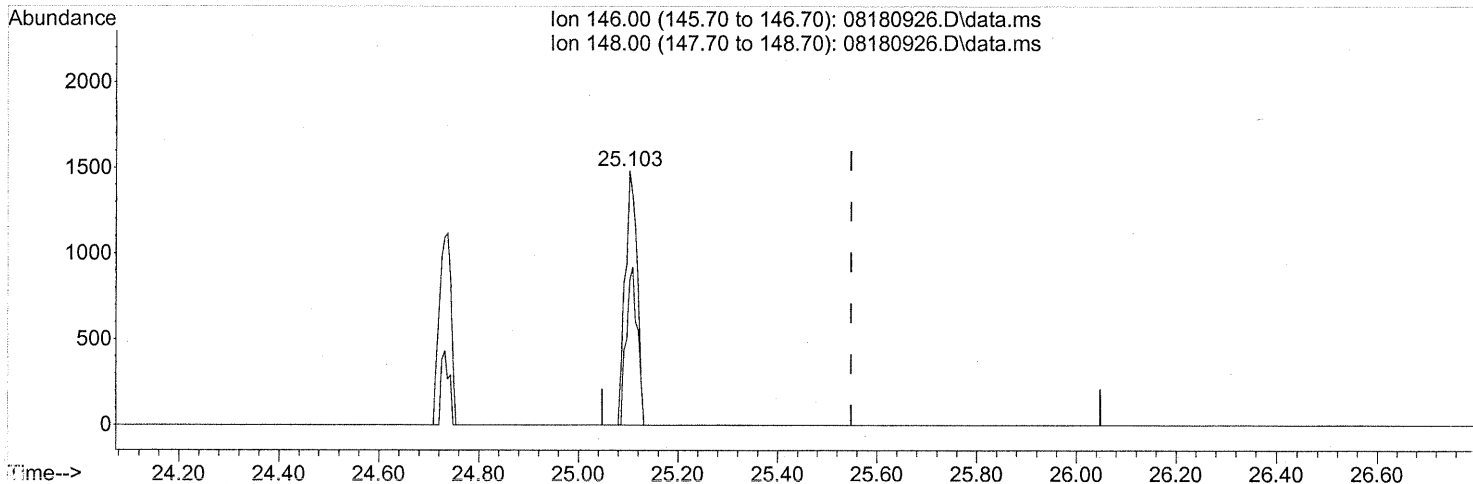
response 2438

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	57.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.103min (-0.446) 0.12ng

response 2438

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	57.83
0.00	0.00	0.00
0.00	0.00	0.00

FP

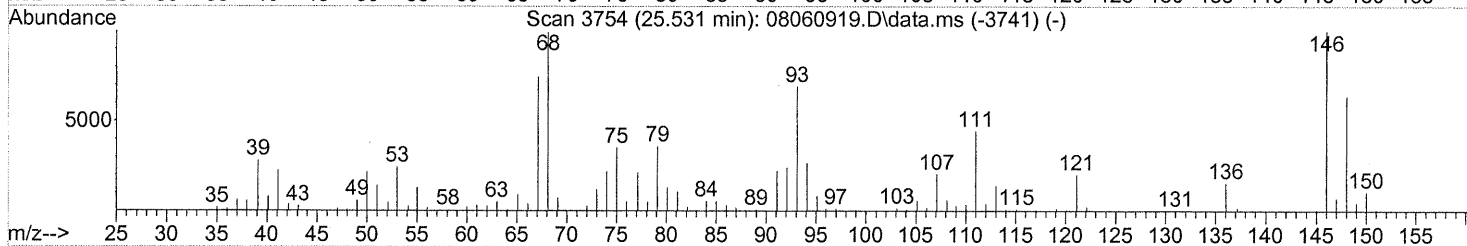
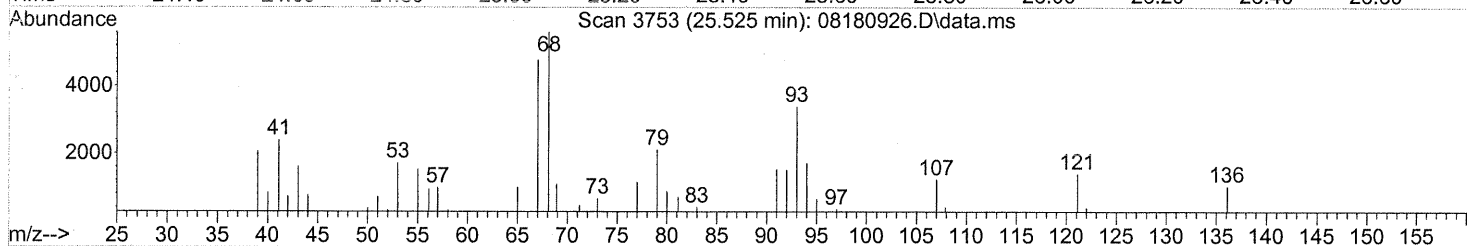
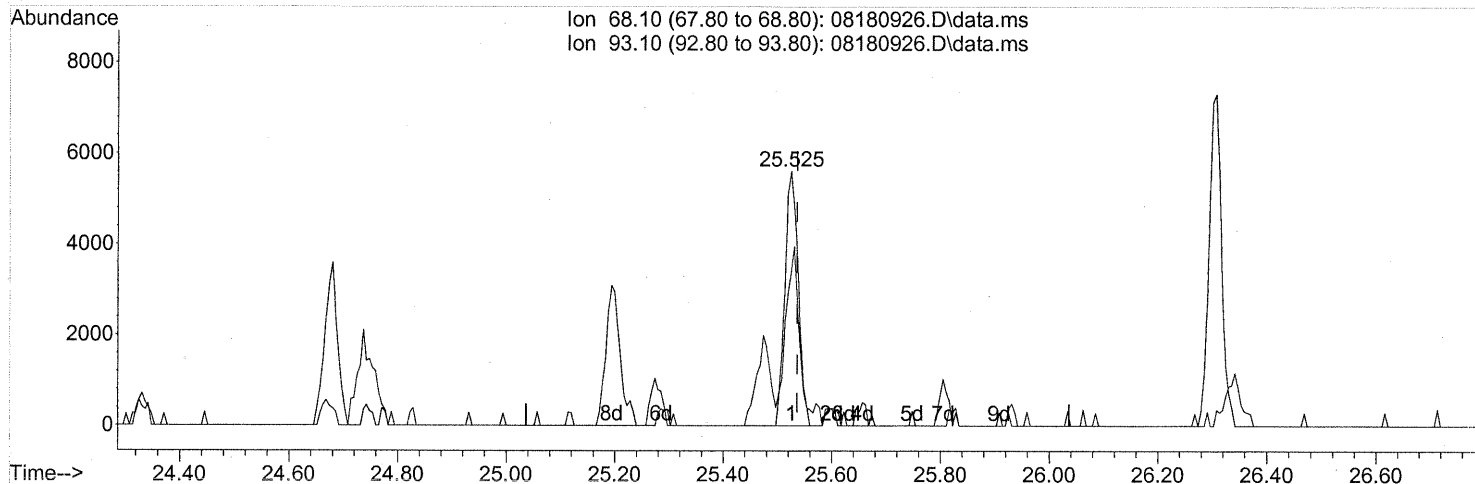
WA 8/22/09

Em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180926.D
 Acq On : 19 Aug 2009 8:01
 Operator : WA
 Sample : P0902766-004 (1000mL)
 Misc : Env. Health & Engineering 101163
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 10:12:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180926.D\data.ms

(91) d-Limonene (T)
 25.525min (-0.011) 0.51ng
 response 9590

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	75.56
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

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

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

CAS Project ID: P0902766
 CAS Sample ID: P090818-MB

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

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

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

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

Verified By: _____

Date: _____

8/25/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

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

CAS Project ID: P0902766
 CAS Sample ID: P090818-MB

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

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

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

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

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

Verified By: _____

Date: _____

8/25/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

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

CAS Project ID: P0902766
 CAS Sample ID: P090818-MB

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

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

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

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

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

Verified By: _____

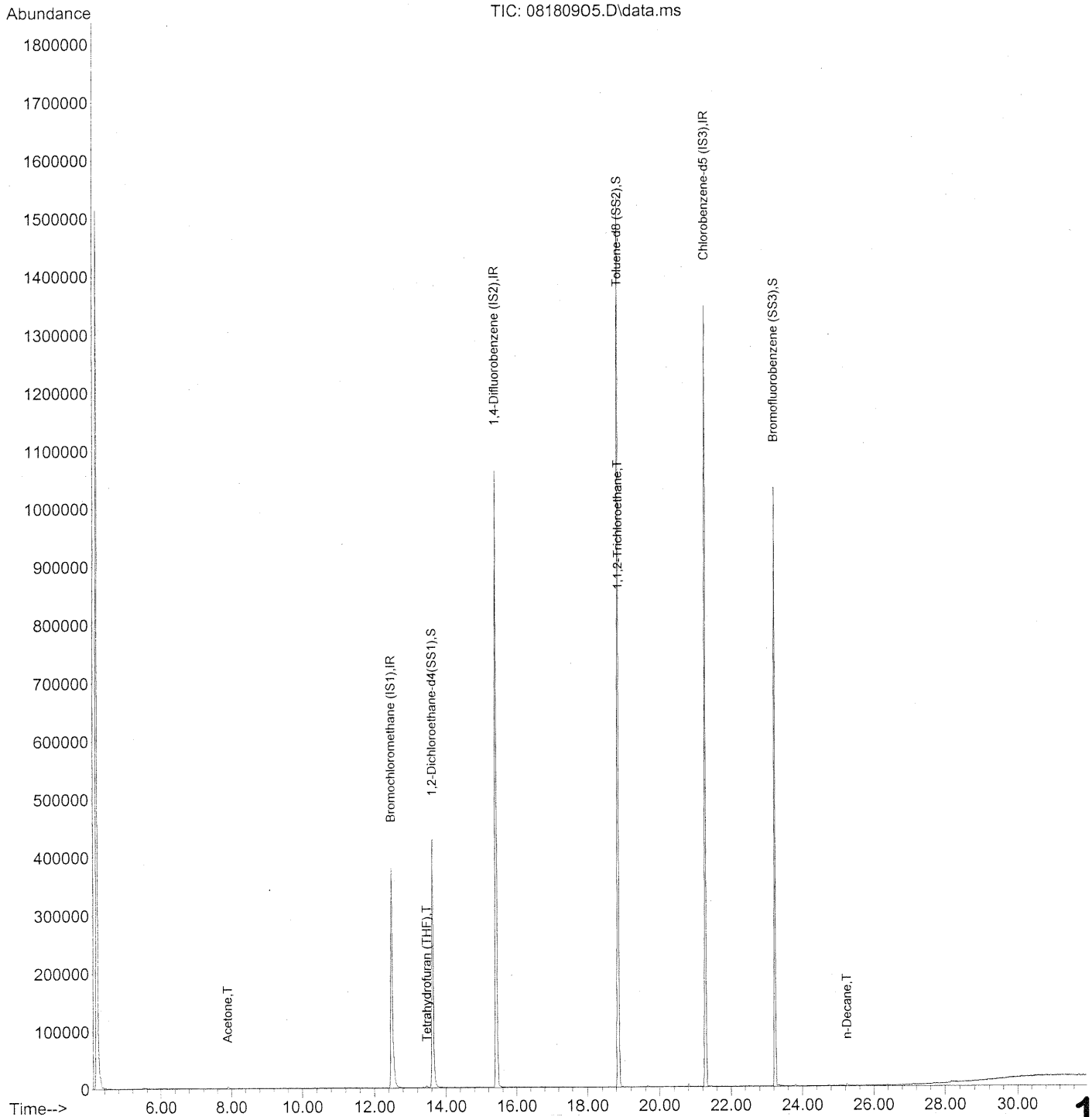
Date: _____

8/25/09

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Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180905.D
 Acq On : 18 Aug 2009 17:22
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 17:57:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180905.D
 Acq On : 18 Aug 2009 17:22
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 17:57:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	236105	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1203686	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	561375	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	478272	23.306	ng	-0.03
Spiked Amount			25.000			
			Recovery	=	93.24%	
57) Toluene-d8 (SS2)	18.85	98	1294113	26.383	ng	-0.01
Spiked Amount			25.000			
			Recovery	=	105.52%	
73) Bromofluorobenzene (SS3)	23.23	174	330455	25.546	ng	-0.01
Spiked Amount			25.000			
			Recovery	=	102.20%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0		N.D.	
3) Dichlorodifluoromethan...	0.00	85	0		N.D.	
4) Chloromethane	0.00	50	0		N.D.	
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0		N.D.	
6) Vinyl Chloride	0.00	62	0		N.D.	
7) 1,3-Butadiene	0.00	54	0		N.D.	
8) Bromomethane	0.00	94	0		N.D.	
9) Chloroethane	0.00	64	0		N.D.	
10) Ethanol	7.15	45	87		N.D.	
11) Acetonitrile	0.00	41	0		N.D.	
12) Acrolein	0.00	56	0		N.D.	
13) Acetone	7.90	58	2381	0.246	ng	# 85
14) Trichlorofluoromethane	0.00	101	0		N.D.	
15) 2-Propanol (Isopropanol)	0.00	45	0		N.D.	
16) Acrylonitrile	0.00	53	0		N.D.	
17) 1,1-Dichloroethene	0.00	96	0		N.D.	
18) 2-Methyl-2-Propanol (t...	0.00	59	0		N.D.	
19) Methylene Chloride	0.00	84	0		N.D.	
20) 3-Chloro-1-propene (Al...	0.00	41	0		N.D.	
21) Trichlorotrifluoroethane	0.00	151	0		N.D.	
22) Carbon Disulfide	0.00	76	0		N.D.	
23) trans-1,2-Dichloroethene	0.00	61	0		N.D.	
24) 1,1-Dichloroethane	0.00	63	0		N.D.	
25) Methyl tert-Butyl Ether	0.00	73	0		N.D.	
26) Vinyl Acetate	0.00	86	0		N.D.	
27) 2-Butanone (MEK)	0.00	72	0		N.D.	
28) cis-1,2-Dichloroethene	0.00	61	0		N.D.	
29) Diisopropyl Ether	0.00	87	0		N.D.	
30) Ethyl Acetate	0.00	61	0		N.D.	
31) n-Hexane	0.00	57	0		N.D.	

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180905.D
 Acq On : 18 Aug 2009 17:22
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 17:57:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	13.47	72	1109	0.119 ng	#	80
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.96	56	151	N.D.		
41) Benzene	14.88	78	1018	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	729	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.87	97	110795	9.535 ng 77#		4
58) Toluene	18.98	91	91	N.D.		
59) 2-Hexanone	19.39	43	94	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.03	91	113	N.D.		
67) m- & p-Xylenes	22.03	91	113	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	22.50	43	453	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.34	105	86	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.03	91	86	N.D.		
77) 3-Ethyltoluene	24.18	105	103	N.D.		
78) 4-Ethyltoluene	24.23	105	333	N.D.		
79) 1,3,5-Trimethylbenzene	24.32	105	148	N.D.		

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180905.D
 Acq On : 18 Aug 2009 17:22
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 17:57:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.56	105	86	N.D.		
82) 1,2,4-Trimethylbenzene	24.56	105	86	N.D.		
83) n-Decane	25.25	57	3350	0.115	ng	# 42
84) Benzyl Chloride	24.95	91	93	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) 4-Isopropyltoluene (p-....	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.40	57	100	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.77	128	1948	N.D.		
96) n-Dodecane	27.70	57	326	N.D.		
97) Hexachlorobutadiene	28.15	225	96	N.D.		
98) Cyclohexanone	22.33	55	575	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		

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

QC SUMMARY FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

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

CAS Project ID: P0902766

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

Date(s) Collected: 8/11/09
Date(s) Received: 8/12/09
Date(s) Analyzed: 8/18 - 8/19/09

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4		Toluene-d8		Bromofluorobenzene		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P090818-MB	93	70-130	106	70-130	102	70-130	
Lab Control Sample	P090818-LCS	92	70-130	105	70-130	105	70-130	
101160	P0902766-001	94	70-130	105	70-130	104	70-130	
101160	P0902766-001DUP	92	70-130	106	70-130	106	70-130	
101161	P0902766-002	93	70-130	104	70-130	104	70-130	
101162	P0902766-003	94	70-130	103	70-130	104	70-130	
101163	P0902766-004	93	70-130	105	70-130	105	70-130	

Verified By:  Date: 8/25/09 **170**
 TO15scan.xls - 75 Compounds - PageNo.:

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: P0902766

CAS Sample ID: P090818-LCS

Test Code: EPA TO-15

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

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 8/18/09

Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	26.3	24.6	94	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	24.1	93	61-118	
74-87-3	Chloromethane	25.0	25.4	102	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	26.3	101	65-122	
75-01-4	Vinyl Chloride	25.3	24.8	98	57-132	
106-99-0	1,3-Butadiene	26.8	27.0	101	66-161	
74-83-9	Bromomethane	25.8	28.9	112	67-130	
75-00-3	Chloroethane	25.5	24.6	96	68-123	
64-17-5	Ethanol	130	121	93	50-155	
75-05-8	Acetonitrile	26.0	21.8	84	48-148	
107-02-8	Acrolein	26.3	24.3	92	67-138	
67-64-1	Acetone	132	127	96	59-121	
75-69-4	Trichlorofluoromethane	26.3	25.3	96	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	39.0	81	54-126	
107-13-1	Acrylonitrile	25.8	26.5	103	65-134	
75-35-4	1,1-Dichloroethene	27.5	28.7	104	70-123	
75-09-2	Methylene Chloride	26.8	24.6	92	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	21.6	80	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	30.2	110	69-126	
75-15-0	Carbon Disulfide	26.0	25.4	98	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	25.4	100	69-125	
75-34-3	1,1-Dichloroethane	26.5	25.6	97	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	25.8	98	72-132	
108-05-4	Vinyl Acetate	126	93.1	74	73-158	
78-93-3	2-Butanone (MEK)	26.8	26.4	99	68-126	

Verified By: _____

Date: _____

8/25/09

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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: P0902766
 CAS Sample ID: P090818-LCS

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

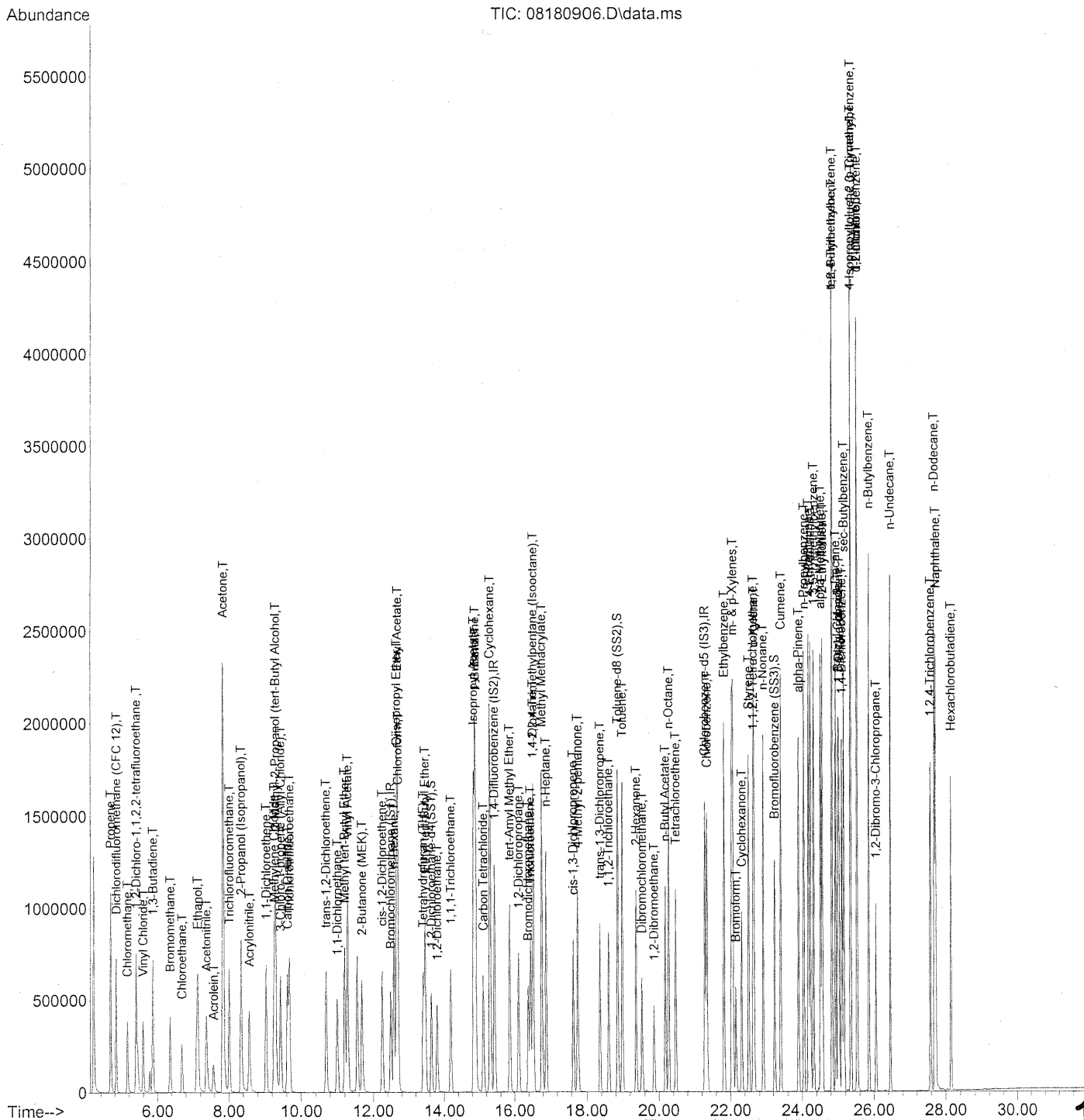
Date Collected: NA
Date Received: NA
Date Analyzed: 8/18/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	26.5	98	69-124	
141-78-6	Ethyl Acetate	52.0	52.2	100	65-126	
110-54-3	n-Hexane	26.0	23.9	92	63-125	
67-66-3	Chloroform	27.5	27.5	100	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	24.2	91	65-124	
107-06-2	1,2-Dichloroethane	26.3	25.2	96	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	25.9	100	69-127	
71-43-2	Benzene	25.8	24.6	95	68-122	
56-23-5	Carbon Tetrachloride	26.3	27.6	105	68-137	
110-82-7	Cyclohexane	51.8	51.8	100	68-121	
78-87-5	1,2-Dichloropropane	26.0	26.0	100	69-128	
75-27-4	Bromodichloromethane	26.3	26.5	101	71-131	
79-01-6	Trichloroethene	25.8	28.5	110	72-122	
123-91-1	1,4-Dioxane	26.0	26.8	103	73-127	
80-62-6	Methyl Methacrylate	52.8	56.6	107	80-133	
142-82-5	n-Heptane	25.8	25.0	97	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	24.5	100	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	25.8	96	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	27.3	101	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	26.7	103	76-125	
108-88-3	Toluene	26.8	27.8	104	74-119	
591-78-6	2-Hexanone	27.0	26.0	96	64-118	
124-48-1	Dibromochloromethane	28.3	32.4	114	79-129	
106-93-4	1,2-Dibromoethane	26.3	29.6	113	79-125	
123-86-4	n-Butyl Acetate	27.5	23.0	84	70-136	

Verified By:  Date: 8/25/09 **172**

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180906.D
 Acq On : 18 Aug 2009 18:02
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 20:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180906.D
 Acq On : 18 Aug 2009 18:02
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 20:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	278885	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1403311	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	663251	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.64	65	555373	22.912	ng	-0.02
Spiked Amount	25.000		Recovery	=	91.64%	
57) Toluene-d8 (SS2)	18.85	98	1515977	26.159	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.64%	
73) Bromofluorobenzene (SS3)	23.24	174	401738	26.287	ng	0.00
Spiked Amount	25.000		Recovery	=	105.16%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	470904	24.606	ng	100
3) Dichlorodifluoromethan...	4.84	85	755155	24.142	ng	99
4) Chloromethane	5.15	50	533305	25.376	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	334021	26.283	ng	99
6) Vinyl Chloride	5.59	62	501615	24.844	ng	97
7) 1,3-Butadiene	5.87	54	390910	27.012	ng	100
8) Bromomethane	6.35	94	355819	28.949	ng	98
9) Chloroethane	6.69	64	288769	24.606	ng	98
10) Ethanol	7.13	45	1469522	121.139	ng	100
11) Acetonitrile	7.37	41	772755	21.752	ng	99
12) Acrolein	7.57	56	224526	24.315	ng	97
13) Acetone	7.83	58	1449235	126.616	ng	95
14) Trichlorofluoromethane	8.01	101	714621	25.270	ng	100
15) 2-Propanol (Isopropanol)	8.34	45	1752309	38.958	ng	99
16) Acrylonitrile	8.57	53	548227	26.508	ng	99
17) 1,1-Dichloroethene	9.03	96	376387	28.664	ng	# 86
18) 2-Methyl-2-Propanol (t...	9.29	59	1978847	49.565	ng	99
19) Methylene Chloride	9.26	84	378823	24.645	ng	93
20) 3-Chloro-1-propene (Al...	9.43	41	639758	21.591	ng	96
21) Trichlorotrifluoroethane	9.68	151	310570	30.204	ng	96
22) Carbon Disulfide	9.63	76	1376479	25.399	ng	99
23) trans-1,2-Dichloroethene	10.68	61	590405	25.411	ng	93
24) 1,1-Dichloroethane	11.00	63	722505	25.643	ng	99
25) Methyl tert-Butyl Ether	11.20	73	1118894	25.836	ng	100
26) Vinyl Acetate	11.28	86	216898	93.117	ng	# 89
27) 2-Butanone (MEK)	11.68	72	272943	26.410	ng	95
28) cis-1,2-Dichloroethene	12.25	61	573520	26.518	ng	93
29) Diisopropyl Ether	12.66	87	379059	27.408	ng	# 1
30) Ethyl Acetate	12.68	61	281015	52.197	ng	99
31) n-Hexane	12.59	57	658444	23.908	ng	99

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8/19/09

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180906.D
 Acq On : 18 Aug 2009 18:02
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 20:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	667787	27.541	ng	100
34) Tetrahydrofuran (THF)	13.40	72	266392	24.182	ng	96
35) Ethyl tert-Butyl Ether	13.46	87	440627	24.627	ng	93
36) 1,2-Dichloroethane	13.80	62	558727	25.214	ng	97
38) 1,1,1-Trichloroethane	14.19	97	616715	25.907	ng	98
39) Isopropyl Acetate	14.84	61	520314	49.982	ng	# 90
40) 1-Butanol	14.89	56	819266	44.983	ng	# 74
41) Benzene	14.88	78	1518422	24.611	ng	99
42) Carbon Tetrachloride	15.11	117	542311	27.579	ng	100
43) Cyclohexane	15.30	84	1170081	51.778	ng	94
44) tert-Amyl Methyl Ether	15.86	73	1123548	24.249	ng	98
45) 1,2-Dichloropropane	16.12	63	403444	26.036	ng	100
46) Bromodichloromethane	16.38	83	538677	26.494	ng	99
47) Trichloroethene	16.45	130	396108	28.464	ng	99
48) 1,4-Dioxane	16.52	88	315529	26.759	ng	79
49) 2,2,4-Trimethylpentane...	16.52	57	1760979	24.231	ng	96
50) Methyl Methacrylate	16.77	100	321520	56.608	ng	94
51) n-Heptane	16.89	71	414394	25.026	ng	96
52) cis-1,3-Dichloropropene	17.65	75	629277	24.503	ng	99
53) 4-Methyl-2-pentanone	17.77	58	382843	25.818	ng	99
54) trans-1,3-Dichloropropene	18.36	75	666241	27.285	ng	98
55) 1,1,2-Trichloroethane	18.60	97	361214	26.665	ng	99
58) Toluene	18.99	91	1585586	27.839	ng	99
59) 2-Hexanone	19.37	43	983918	25.978	ng	97
60) Dibromochloromethane	19.53	129	436252	32.373	ng	99
61) 1,2-Dibromoethane	19.86	107	422553	29.577	ng	98
62) n-Butyl Acetate	20.18	43	1028456	23.038	ng	99
63) n-Octane	20.28	57	362851	26.352	ng	92
64) Tetrachloroethene	20.47	166	387490	29.400	ng	98
65) Chlorobenzene	21.34	112	1024129	29.063	ng	100
66) Ethylbenzene	21.82	91	1822653	27.994	ng	99
67) m- & p-Xylenes	22.06	91	2837502	53.875	ng	97
68) Bromoform	22.15	173	341480	30.519	ng	99
69) Styrene	22.51	104	1115214	29.295	ng	99
70) o-Xylene	22.66	91	1468614	27.811	ng	97
71) n-Nonane	22.91	43	859251	24.489	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	679392	28.991	ng	99
74) Cumene	23.41	105	1791976	26.864	ng	100
75) alpha-Pinene	23.90	93	906584	26.514	ng	100
76) n-Propylbenzene	24.05	91	2263204	26.990	ng	99
77) 3-Ethyltoluene	24.18	105	1842457	28.902	ng	100
78) 4-Ethyltoluene	24.23	105	1722527	27.886	ng	97
79) 1,3,5-Trimethylbenzene	24.32	105	1515208	29.085	ng	98

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180906.D
 Acq On : 18 Aug 2009 18:02
 Operator : WA
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-07270906
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 20:05:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	813978	29.184	ng	96
81) 2-Ethyltoluene	24.56	105	1782971	27.735	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1521470	28.638	ng	100
83) n-Decane	24.94	57	893103	25.855	ng	98
84) Benzyl Chloride	25.01	91	1415027	28.413	ng	98
85) 1,3-Dichlorobenzene	25.03	146	812400	30.214	ng	96
86) 1,4-Dichlorobenzene	25.11	146	837918	29.227	ng	99
87) sec-Butylbenzene	25.17	105	2011801	28.031	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1800648	28.136	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	1537708	28.411	ng	97
90) 1,2-Dichlorobenzene	25.53	146	766602	30.071	ng	100
91) d-Limonene	25.53	68	635302	28.120	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.06	157	294310	33.567	ng	86
93) n-Undecane	26.46	57	965718	26.278	ng	97
94) 1,2,4-Trichlorobenzene	27.59	180	589890	33.654	ng	100
95) Naphthalene	27.73	128	2099531	29.099	ng	100
96) n-Dodecane	27.70	57	996010	23.329	ng	99
97) Hexachlorobutadiene	28.15	225	328431	29.460	ng	99
98) Cyclohexanone	22.32	55	533779	22.620	ng	97
99) tert-Butylbenzene	24.83	119	1449940	28.198	ng	98
100) n-Butylbenzene	25.86	91	1724074	29.134	ng	99

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101160
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01202

CAS Project ID: P0902766
CAS Sample ID: P0902766-001DUP

Date Collected: 8/11/09
Date Received: 8/12/09
Date Analyzed: 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.9

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.42

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Propene	ND	ND	ND	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	3.16	0.640	3.09	0.625	3.125	2	25	
Chloromethane	1.10	0.533	1.07	0.521	1.085	3	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	432	230	437	232	434.5	1	25	
Acetonitrile	118	70.6	120	71.8	119	2	25	
Acrolein	6.99	3.05	6.64	2.90	6.815	5	25	
Acetone	74.8	31.5	69.4	29.2	72.1	7	25	
Trichlorofluoromethane	1.57	0.280	1.49	0.264	1.53	5	25	
2-Propanol (Isopropyl Alcohol)	12.6	5.12	12.0	4.87	12.3	5	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	0.794	0.229	0.775	0.223	0.7845	2	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.791	0.103	0.719	0.0938	0.755	10	25	
Carbon Disulfide	2.03	0.653	1.96	0.628	1.995	4	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	1.25	0.346	1.20	0.334	1.225	4	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	6.72	2.28	6.07	2.06	6.395	10	25	

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

Verified By: _____ Date: 8/25/09 **178**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101160
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01202

CAS Project ID: P0902766
CAS Sample ID: P0902766-001DUP

Date Collected: 8/11/09
Date Received: 8/12/09
Date Analyzed: 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.9 **Final Pressure (psig):** 3.5

Canister Dilution Factor: 1.42

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	2.42	0.671	2.27	0.632	2.345	6	25	
n-Hexane	2.24	0.636	2.13	0.603	2.185	5	25	
Chloroform	0.862	0.177	0.865	0.177	0.8635	0.3	25	
Tetrahydrofuran (THF)	3.39	1.15	3.47	1.18	3.43	2	25	
1,2-Dichloroethane	0.856	0.212	0.831	0.205	0.8435	3	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	2.41	0.754	2.39	0.749	2.4	0.8	25	
Carbon Tetrachloride	0.703	0.112	0.642	0.102	0.6725	9	25	
Cyclohexane	1.67	0.485	1.62	0.472	1.645	3	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	2.43	0.592	2.50	0.610	2.465	3	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	12.8	3.40	12.5	3.31	12.65	2	25	
2-Hexanone	1.03	0.251	0.723	0.177	0.8765	35	25	R
Dibromochloromethane	0.172	0.0202	0.151	0.0177	0.1615	13	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	3.14	0.662	3.21	0.676	3.175	2	25	

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

R = Duplicate precision not met.

Verified By: _____

Date: _____

8/25/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 101160
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01202

CAS Project ID: P0902766
CAS Sample ID: P0902766-001DUP

Date Collected: 8/11/09
Date Received: 8/12/09
Date Analyzed: 8/18/09
Volume(s) Analyzed: 1.00 Liter(s)


Initial Pressure (psig): -1.9

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.42

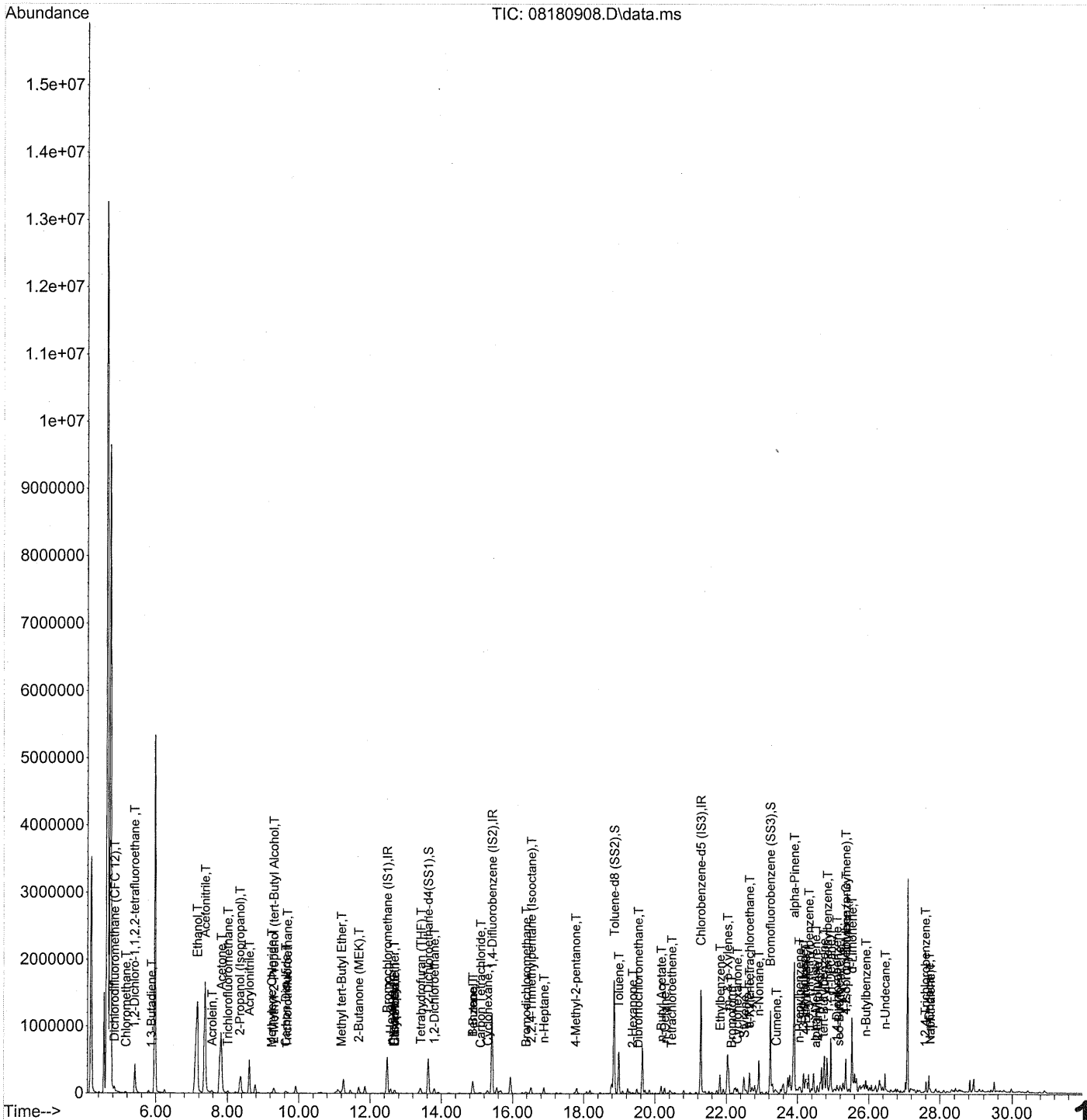
Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
n-Octane	1.87	0.401	1.83	0.391	1.85	2	25	
Tetrachloroethene	0.684	0.101	0.652	0.0962	0.668	5	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	5.70	1.31	5.71	1.32	5.705	0.2	25	
m,p-Xylenes	15.7	3.61	15.9	3.66	15.8	1	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	2.48	0.583	2.43	0.572	2.455	2	25	
o-Xylene	5.57	1.28	5.63	1.30	5.6	1	25	
n-Nonane	8.82	1.68	8.94	1.70	8.88	1	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	37.7	6.76	38.4	6.89	38.05	2	25	
n-Propylbenzene	1.02	0.207	1.06	0.215	1.04	4	25	
4-Ethyltoluene	1.42	0.289	1.43	0.291	1.425	0.7	25	
1,3,5-Trimethylbenzene	1.86	0.379	1.84	0.375	1.85	1	25	
1,2,4-Trimethylbenzene	5.28	1.07	5.36	1.09	5.32	2	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	0.308	0.0513	0.258	0.0430	0.283	18	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	16.9	3.03	17.7	3.18	17.3	5	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	0.971	0.185	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

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

Verified By:  Date: 8/25/09 **180**

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 16:32:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 16:32:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	264180	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1343262	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	638592	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	529928	23.079	ng	-0.03
Spiked Amount	25.000			Recovery =	92.32%	✓
57) Toluene-d8 (SS2)	18.85	98	1472515	26.390	ng	-0.01
Spiked Amount	25.000			Recovery =	105.56%	✓
73) Bromofluorobenzene (SS3)	23.23	174	390825	26.560	ng	-0.01
Spiked Amount	25.000			Recovery =	106.24%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.85	85	64451	2.175	ng	98
4) Chloromethane	5.17	50	15066	0.757	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	858	0.071	ng	64
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	1303	0.095	ng	# 37
8) Bromomethane	6.37	94	461	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.16	45	3536810	307.784	ng	100
11) Acetonitrile	7.38	41	2854921	84.834	ng	100
12) Acrolein	7.57	56	40875	4.673	ng	99
13) Acetone	7.83	58	529538	48.840	ng	# 85
14) Trichlorofluoromethane	8.01	101	28025	1.046	ng	100
15) 2-Propanol (Isopropanol)	8.35	45	359150	8.429	ng	70
16) Acrylonitrile	8.61	53	8114	0.414	ng	# 39
17) 1,1-Dichloroethene	8.95	96	87	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	15489	0.410	ng	# 1
19) Methylene Chloride	9.24	84	7956	0.546	ng	96
20) 3-Chloro-1-propene (Al...	9.43	41	426	N.D.		
21) Trichlorotrifluoroethane	9.67	151	4931	0.506	ng	98
22) Carbon Disulfide	9.63	76	70705	1.377	ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.20	73	34787	0.848	ng	# 53
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.68	72	41876	4.278	ng	93
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.67	87	1265	0.097	ng	# 1
30) Ethyl Acetate	12.69	61	8168	1.602	ng	94
31) n-Hexane	12.58	57	39043	1.497	ng	100

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 16:32:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	13978	0.609 ng		99
34) Tetrahydrofuran (THF)	13.42	72	25508	2.444 ng	#	73
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.80	62	12276	0.585 ng		98
38) 1,1,1-Trichloroethane	14.18	97	504	N.D.		
39) Isopropyl Acetate	14.87	61	444	N.D.		
40) 1-Butanol	14.88	56	95965	5.505 ng		83
41) Benzene	14.88	78	99456	1.684 ng		99
42) Carbon Tetrachloride	15.10	117	8511	0.452 ng		98
43) Cyclohexane	15.30	84	24755	1.144 ng		97
44) tert-Amyl Methyl Ether	15.87	73	1402	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.38	83	5228	0.269 ng	#	61
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	95758	1.377 ng		89
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.88	71	27905	1.761 ng		96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	6520	0.459 ng		92
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	481242	8.776 ng		99
59) 2-Hexanone	19.37	43	18545	0.509 ng		95
60) Dibromochloromethane	19.53	129	1370	0.106 ng		97
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	97173	2.261 ng		95
63) n-Octane	20.28	57	17063	1.287 ng		95
64) Tetrachloroethene	20.47	166	5830	0.459 ng		95
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	21.82	91	252120	4.022 ng		99
67) m- & p-Xylenes	22.03	91	567579	11.193 ng		99
68) Bromoform	22.15	173	2125	0.197 ng		94
69) Styrene	22.51	104	62837	1.714 ng		100
70) o-Xylene	22.65	91	201738	3.968 ng		99
71) n-Nonane	22.91	43	212687	6.296 ng		97
72) 1,1,2,2-Tetrachloroethane	22.65	83	1639	0.073 ng	#	1
74) Cumene	23.41	105	18212	0.284 ng		97
75) alpha-Pinene	23.90	93	890235	27.042 ng		72
76) n-Propylbenzene	24.05	91	59962	0.743 ng		91
77) 3-Ethyltoluene	24.17	105	147045	2.396 ng		99
78) 4-Ethyltoluene	24.23	105	59899	1.007 ng		100
79) 1,3,5-Trimethylbenzene	24.31	105	65043	1.297 ng		100

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 16:32:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

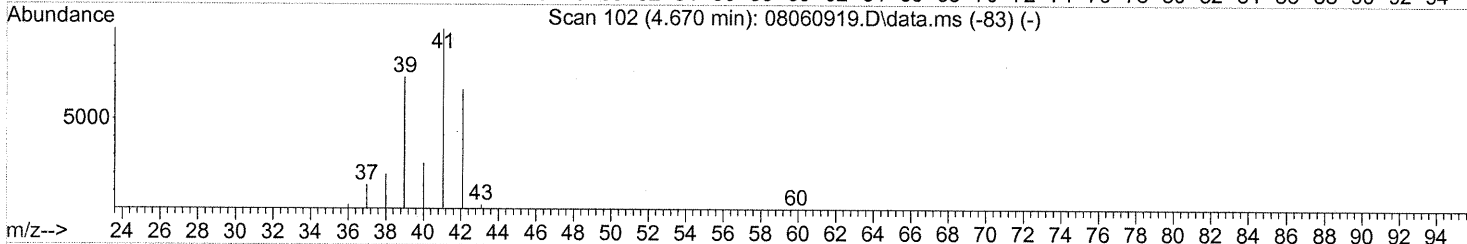
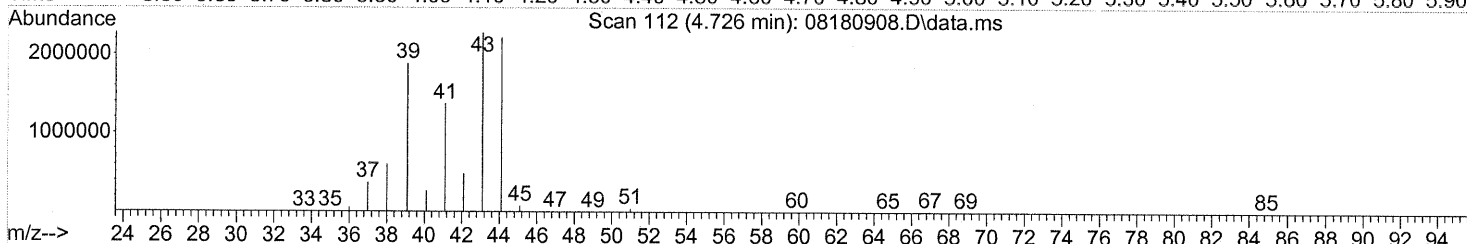
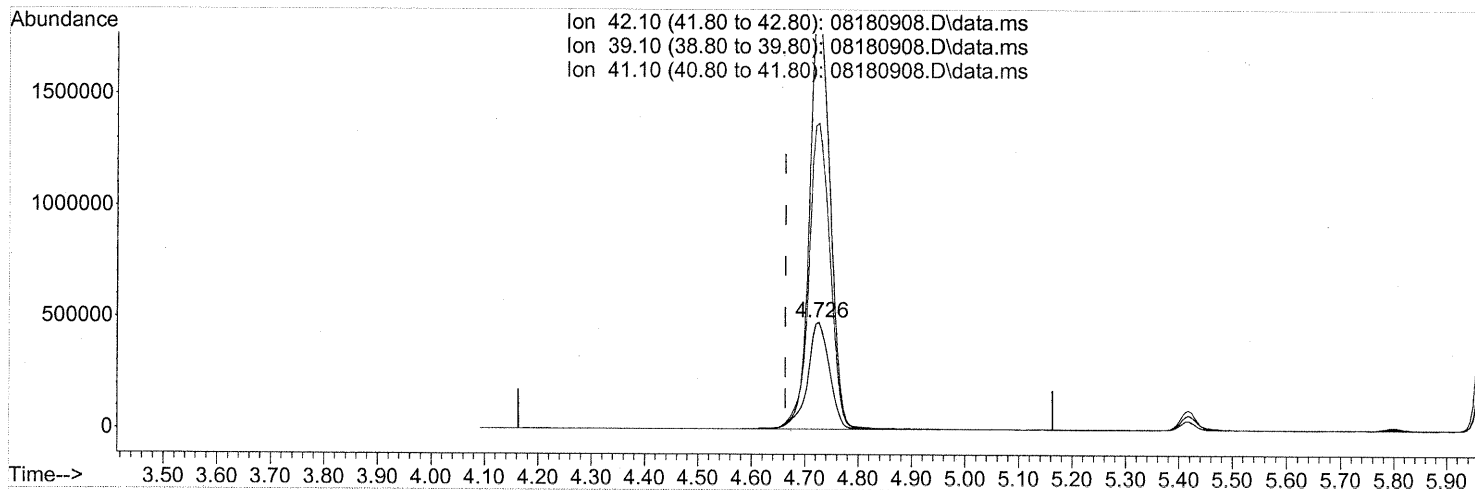
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1841	0.069	ng	# 82
81) 2-Ethyltoluene	24.56	105	63419	1.025	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	192992	3.773	ng	88
83) n-Decane	24.93	57	279830	8.414	ng	97
84) Benzyl Chloride	25.01	91	2208	N.D.		
85) 1,3-Dichlorobenzene	25.02	146	95	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	5027	0.182	ng	97
87) sec-Butylbenzene	25.17	105	6270	0.091	ng	# 77
88) 4-Isopropyltoluene (p-...	25.35	119	81902	1.329	ng	98
89) 1,2,3-Trimethylbenzene	25.35	105	55484	1.065	ng	92
90) 1,2-Dichlorobenzene	25.53	146	205	N.D.		
91) d-Limonene	25.53	68	271691	12.490	ng	# 65
92) 1,2-Dibromo-3-Chloropr...	26.06	157	94	N.D.		
93) n-Undecane	26.46	57	98872	2.794	ng	97
94) 1,2,4-Trichlorobenzene	27.59	180	865	0.051	ng	# 73
95) Naphthalene	27.73	128	31529	0.454	ng	98
96) n-Dodecane	27.70	57	81714	1.988	ng	99
97) Hexachlorobutadiene	28.14	225	185	N.D.		
98) Cyclohexanone	22.31	55	38935	1.714	ng	94
99) tert-Butylbenzene	24.73	119	3521	0.071	ng	98
100) n-Butylbenzene	25.91	91	12109	0.213	ng	# 67

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.726min (+0.063) 76.25ng
 response 1382378

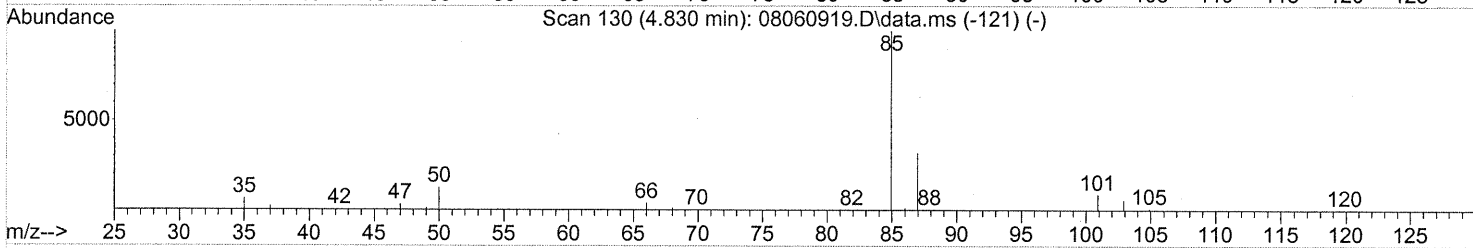
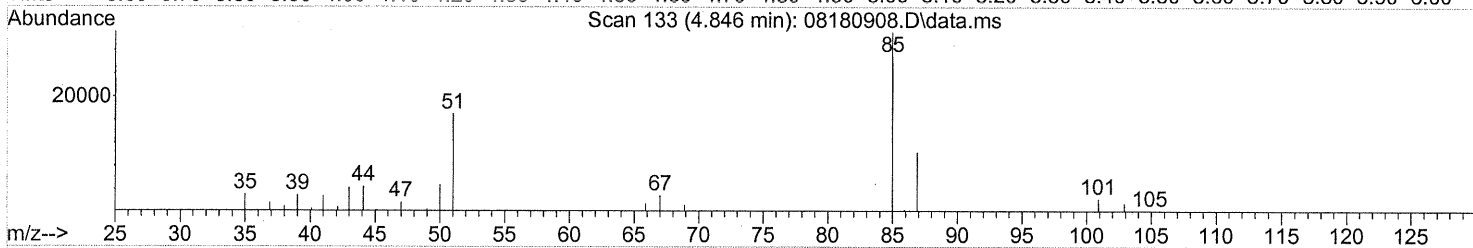
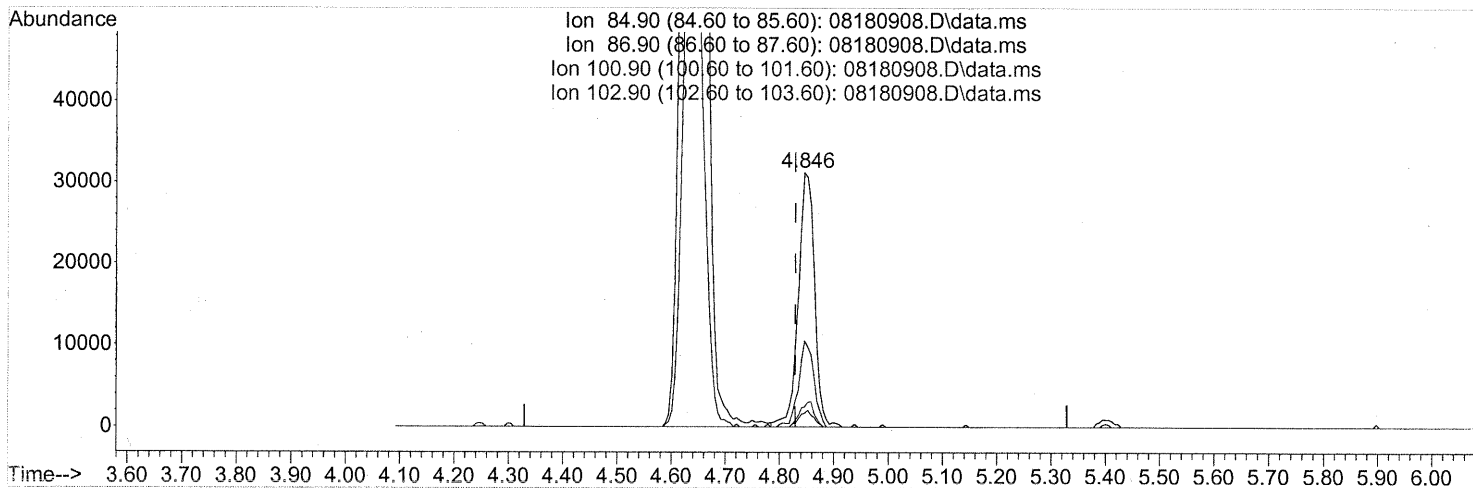
Ion	Exp%	Act%
42.10	100	100
39.10	111.90	368.23#
41.10	150.20	275.99#
0.00	0.00	0.00

FP
WA 8/22/09 *em 8/25/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.846min (+0.017) 2.18ng

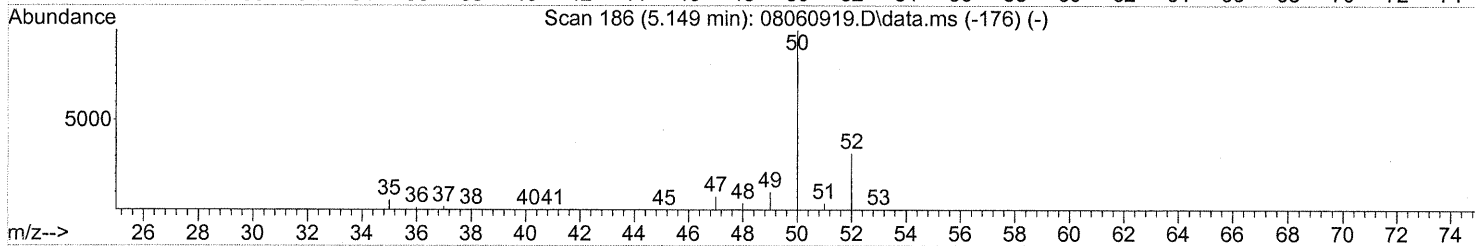
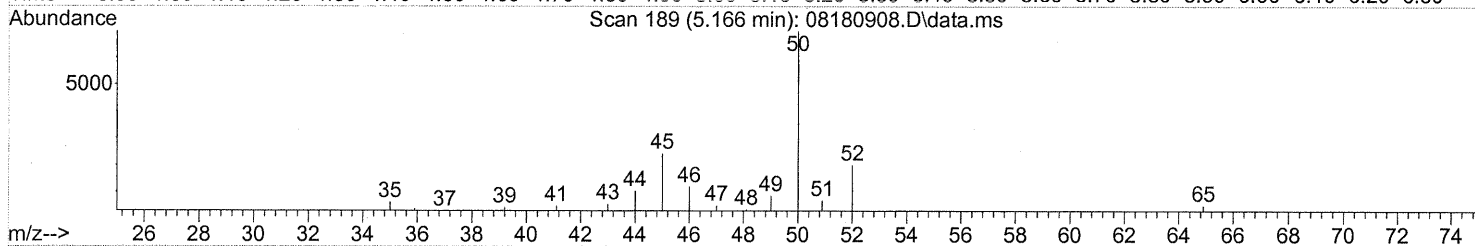
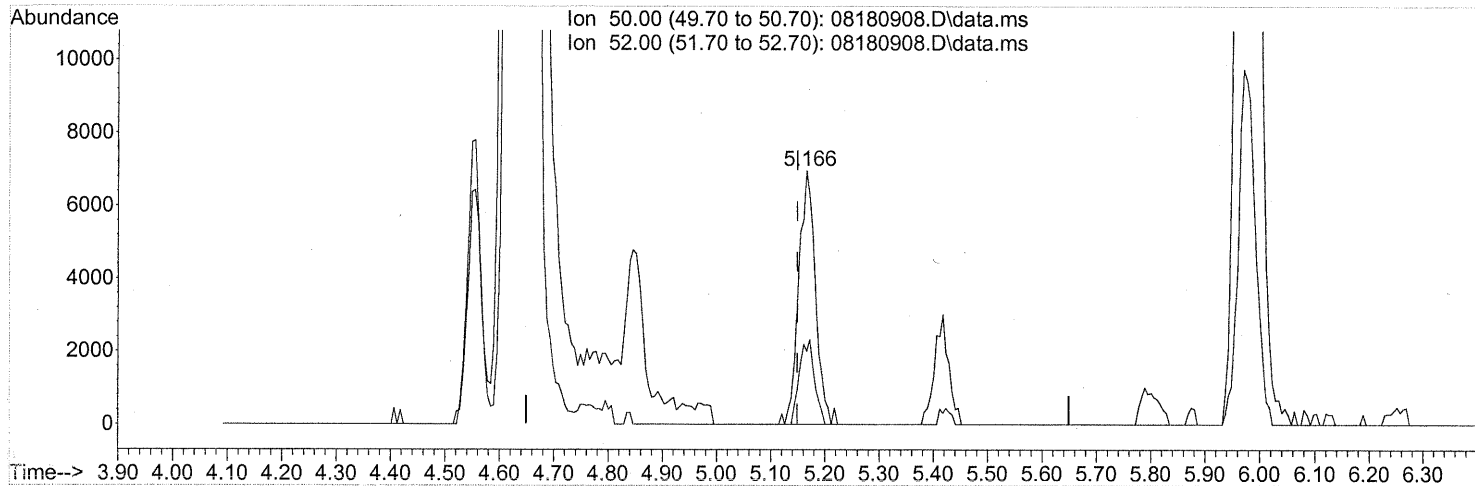
response 64451

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.70
100.90	8.80	8.56
102.90	5.20	5.54

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
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 Operator : WA
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 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

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 Response via : Initial Calibration



TIC: 08180908.D\data.ms

(4) Chloromethane (T)

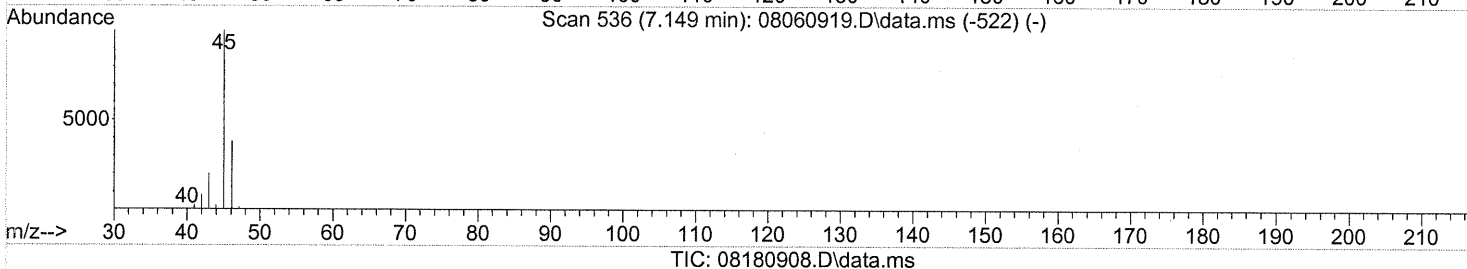
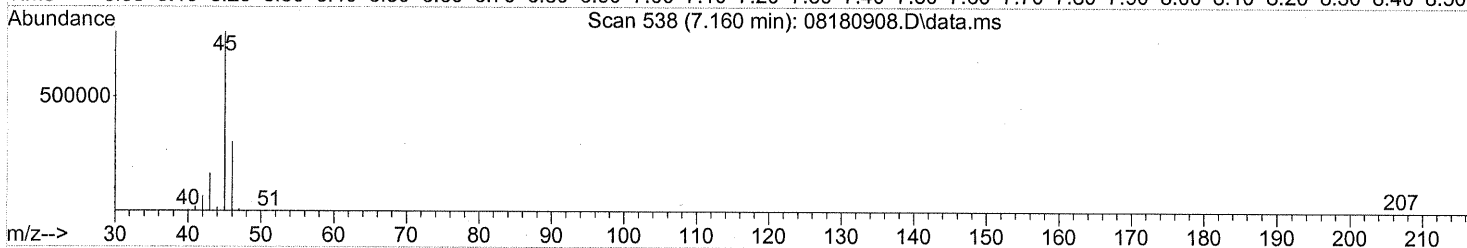
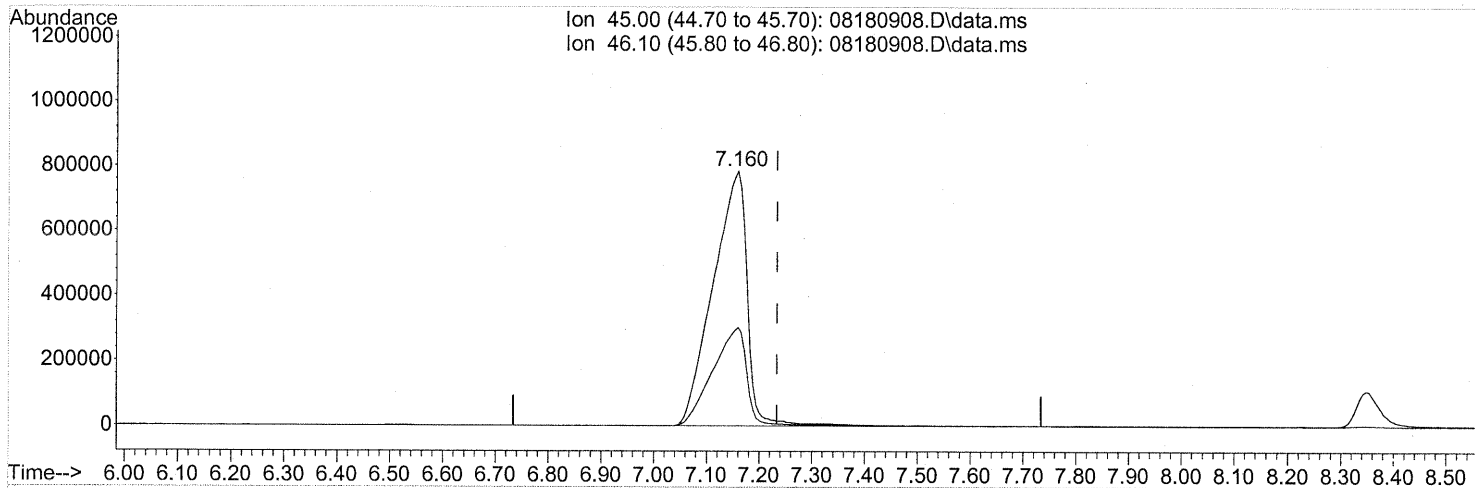
5.166min (+0.017) 0.76ng
 response 15066

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.160min (-0.074) 307.78ng

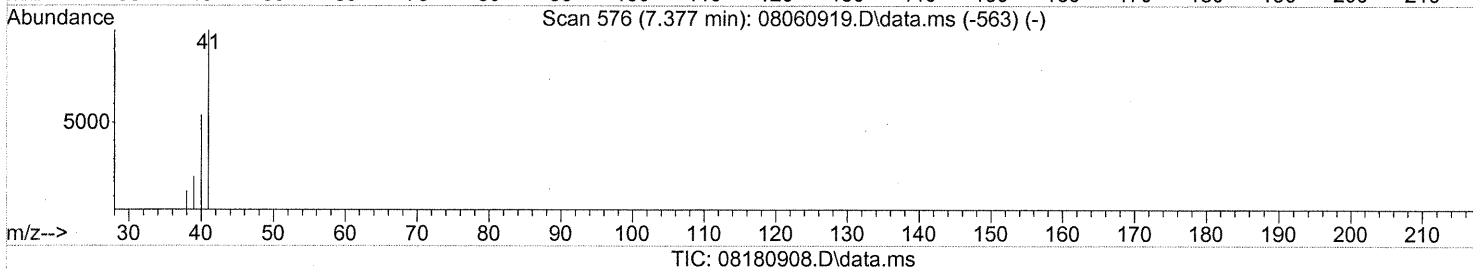
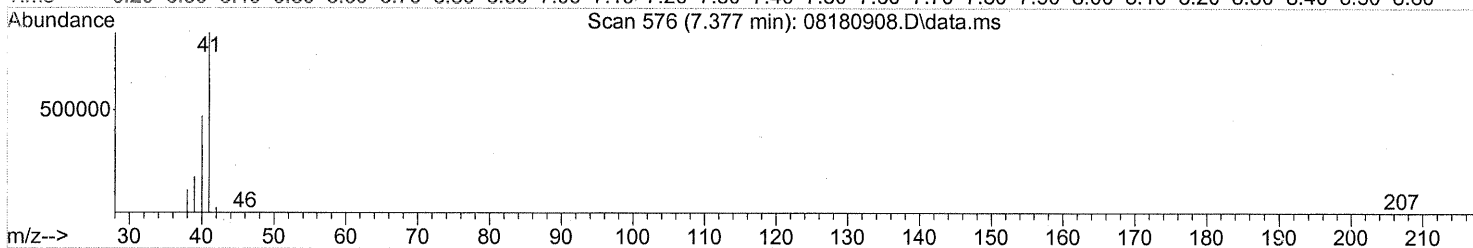
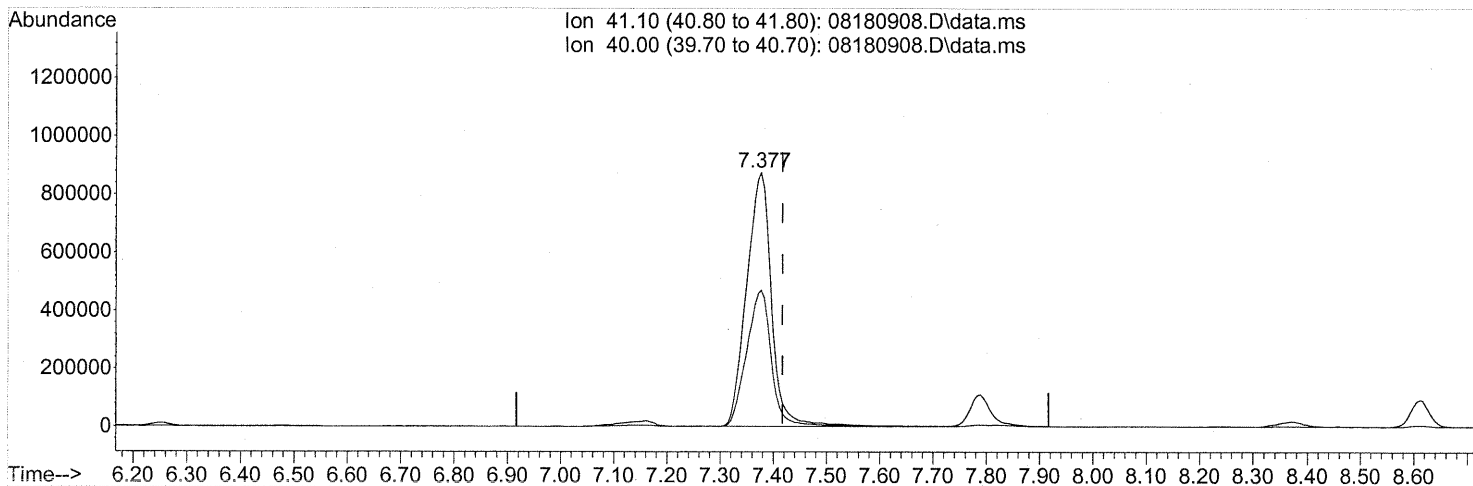
response 3536810

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Operator : WA
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 Response via : Initial Calibration



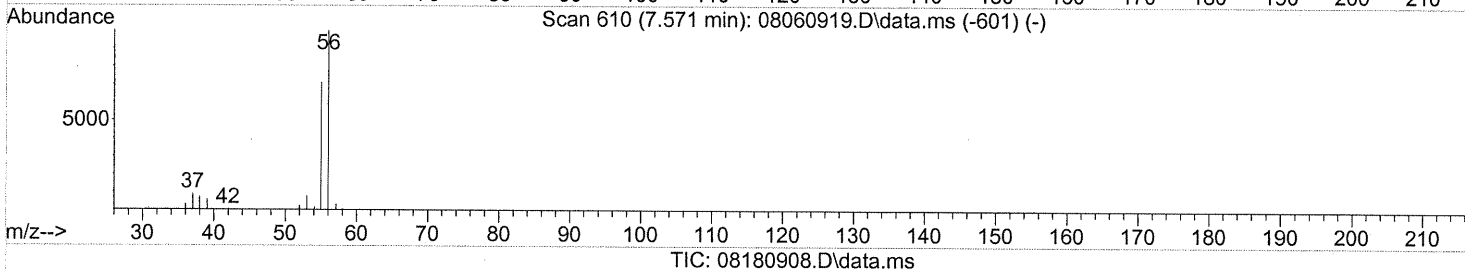
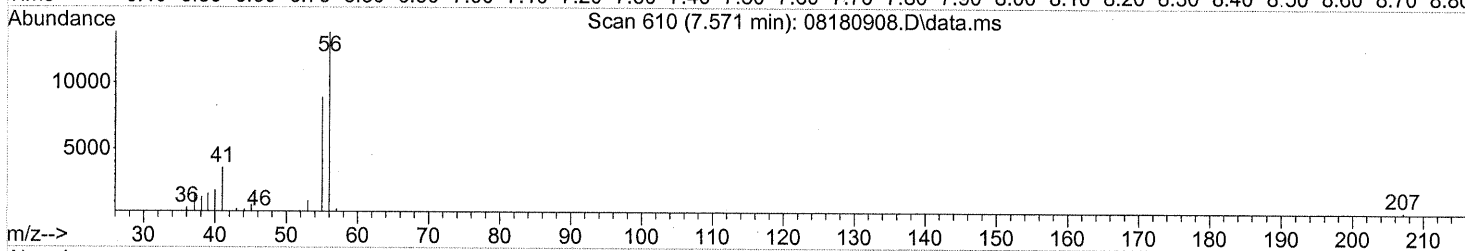
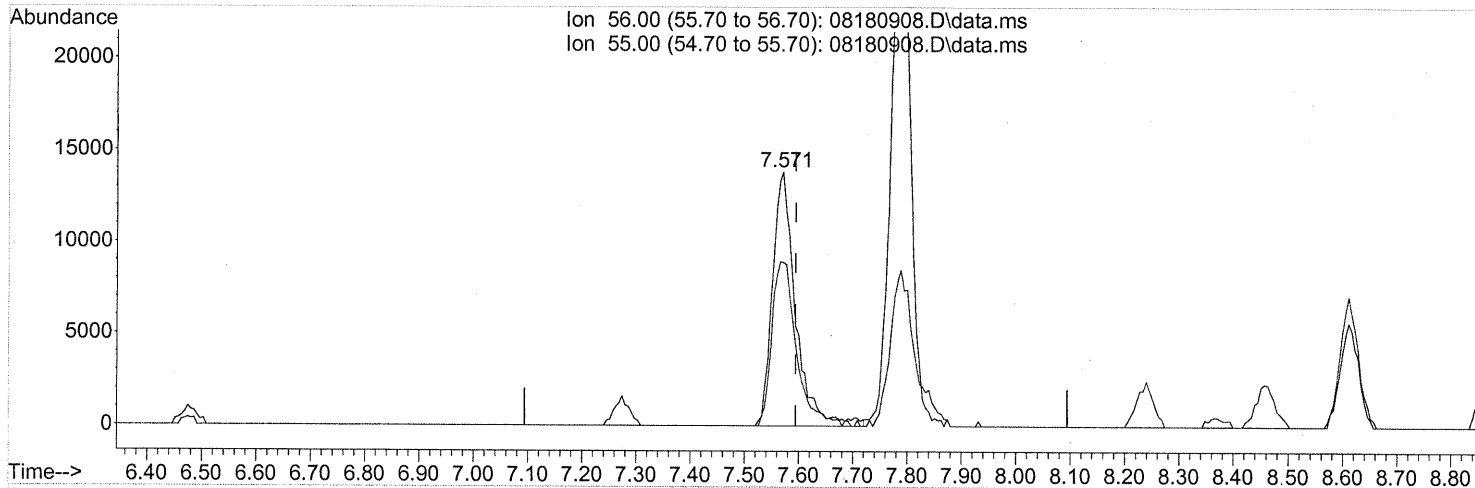
(11) Acetonitrile (T)
 7.377min (-0.040) 84.83ng
 response 2854921

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Operator : WA
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 ALS Vial : 13 Sample Multiplier: 1

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 Response via : Initial Calibration



(12) Acrolein (T)

7.571min (-0.023) 4.67ng

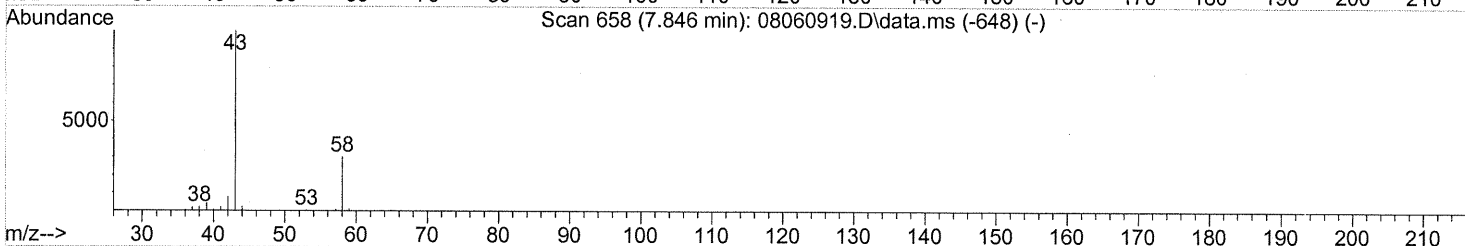
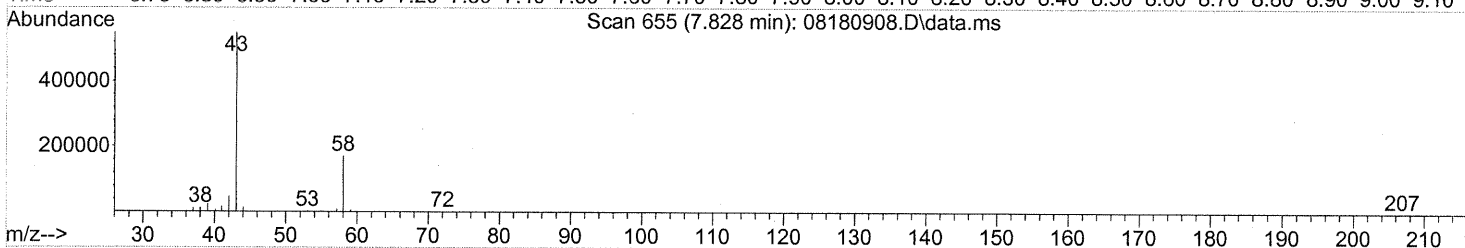
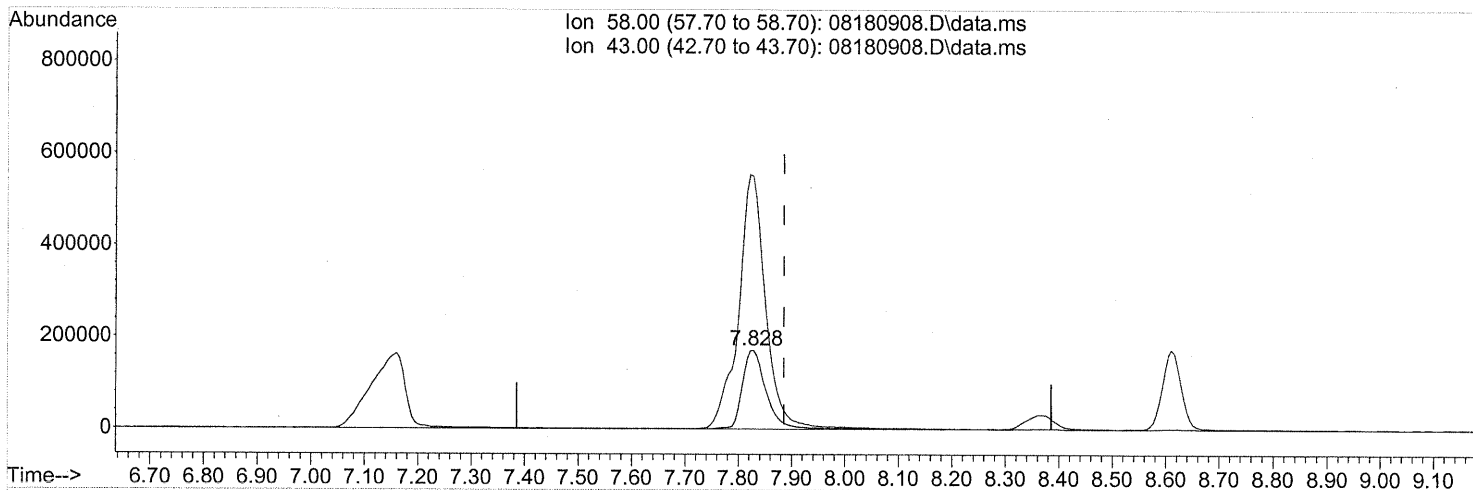
response 40875

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	68.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Operator : WA
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 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
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TIC: 08180908.D\data.ms

(13) Acetone (T)

7.828min (-0.058) 48.84ng

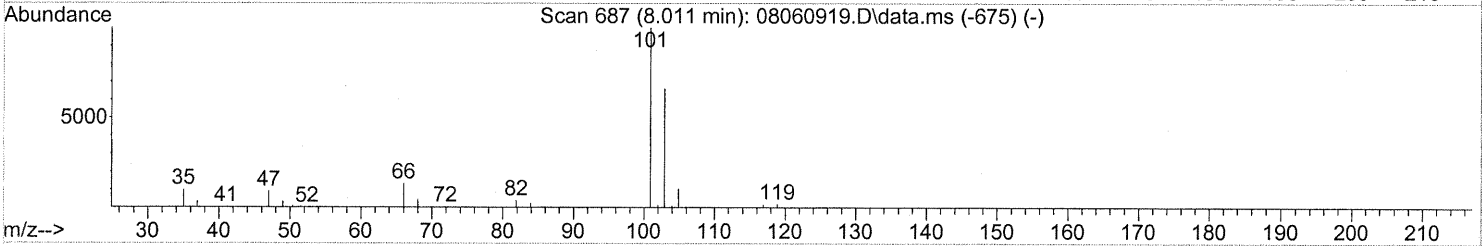
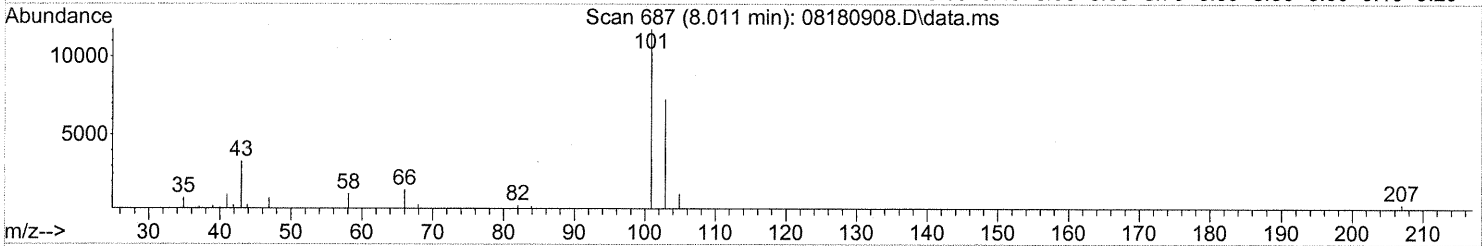
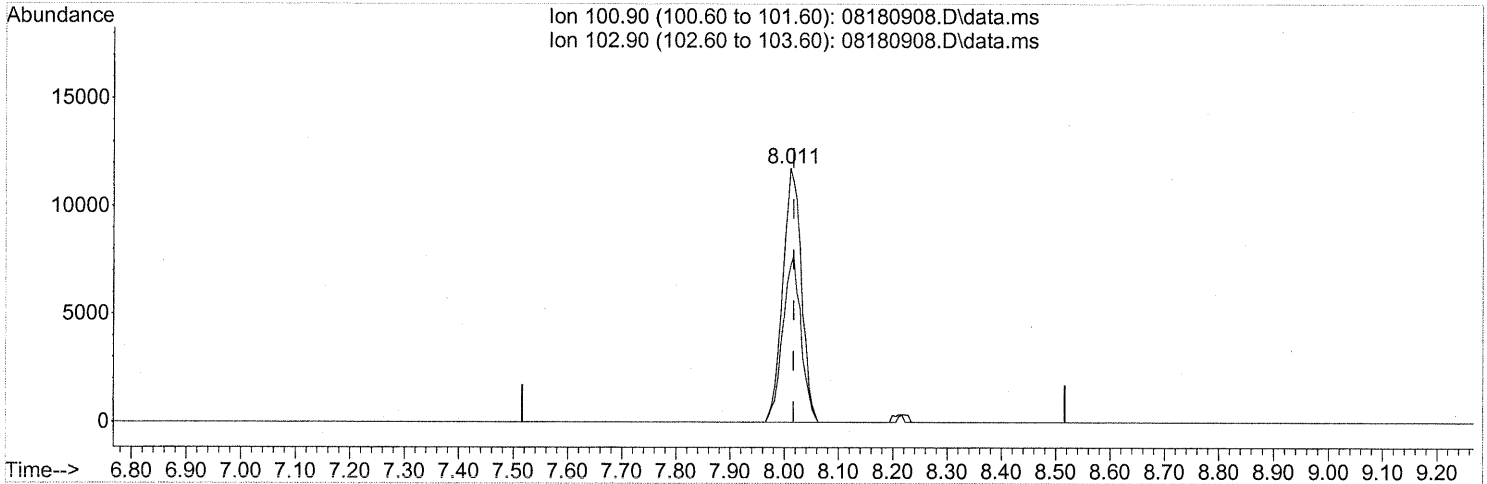
response 529538

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	372.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Misc : Env. Health & Engineering 101160
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TIC: 08180908.D\data.ms

(14) Trichlorofluoromethane (T)

8.011min (-0.006) 1.05ng

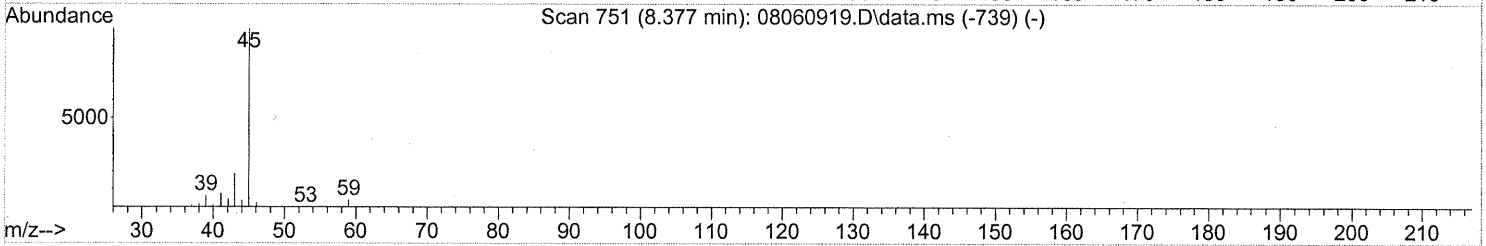
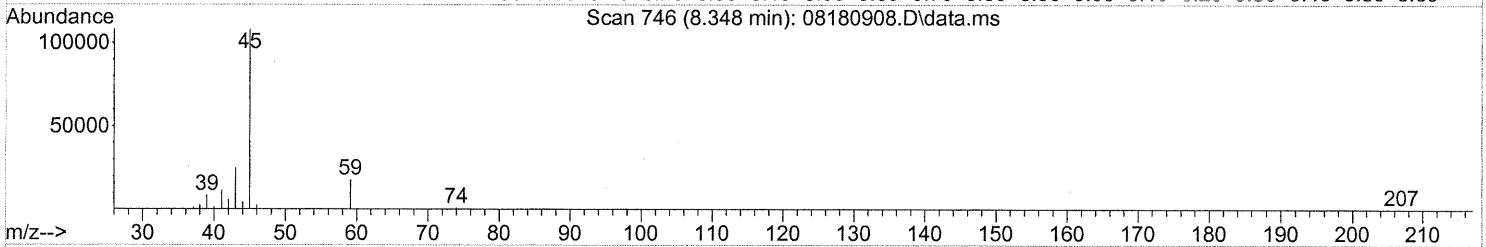
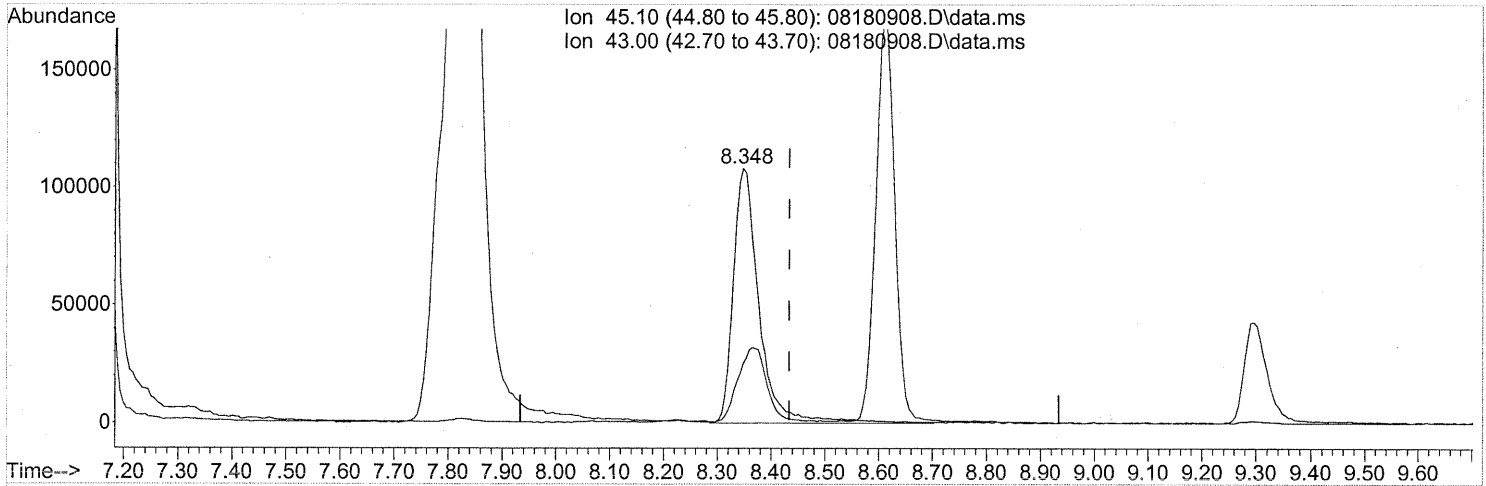
response 28025

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
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 Acq On : 18 Aug 2009 19:25
 Operator : WA
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 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
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 Response via : Initial Calibration



TIC: 08180908.D\data.ms

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

8.348min (-0.086) 8.43ng

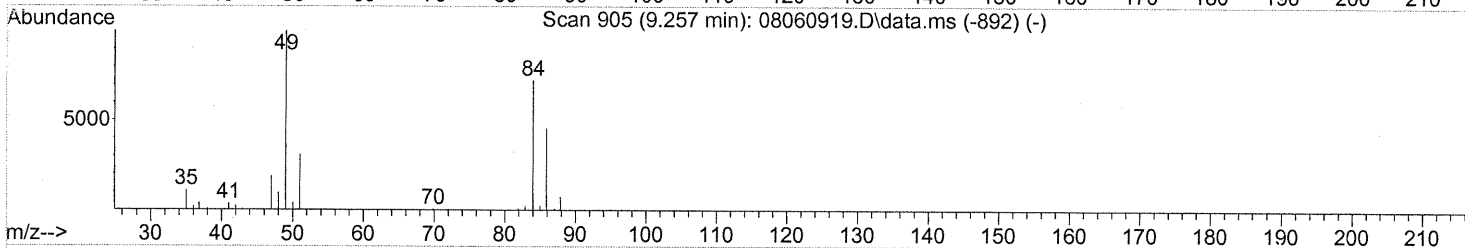
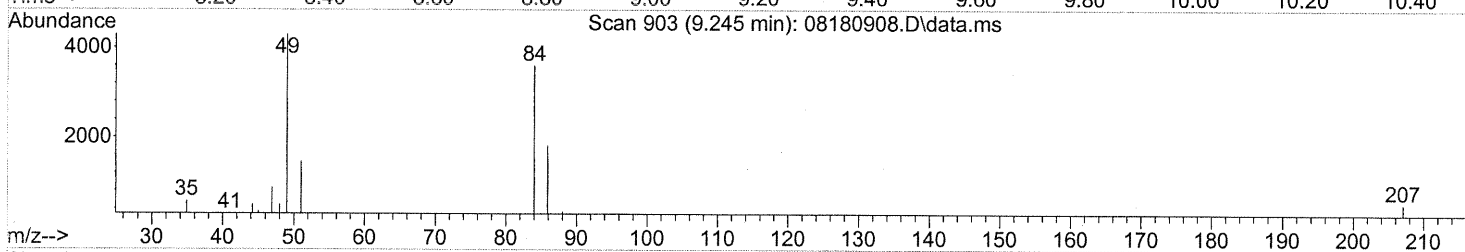
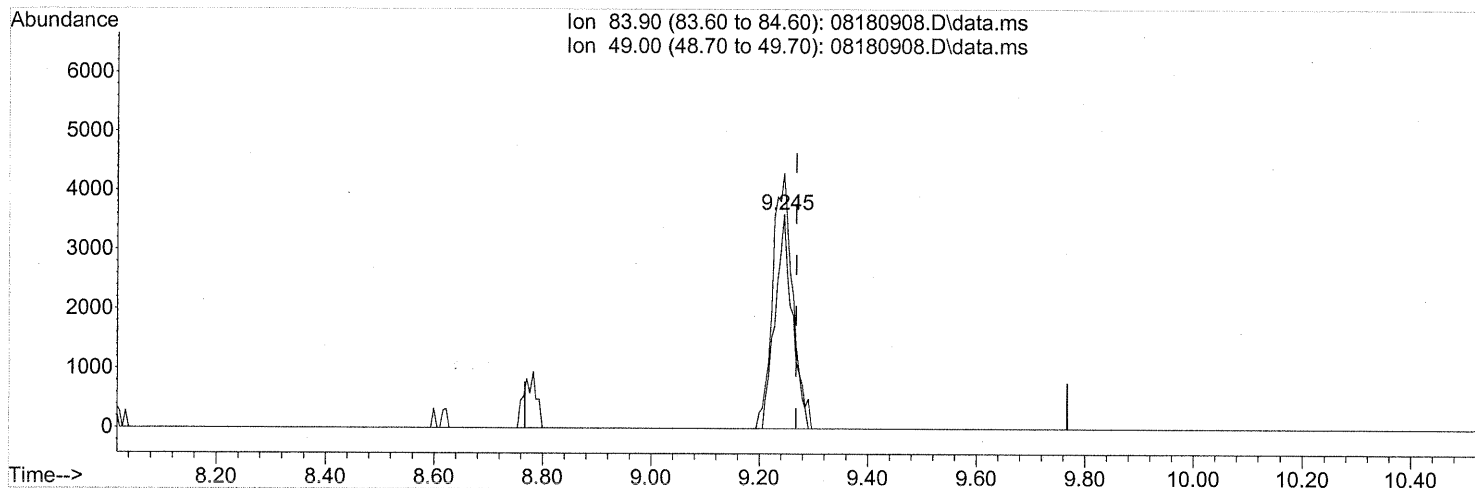
response 359150

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	32.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
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TIC: 08180908.D\data.ms

(19) Methylene Chloride (T)

9.245min (-0.023) 0.55ng

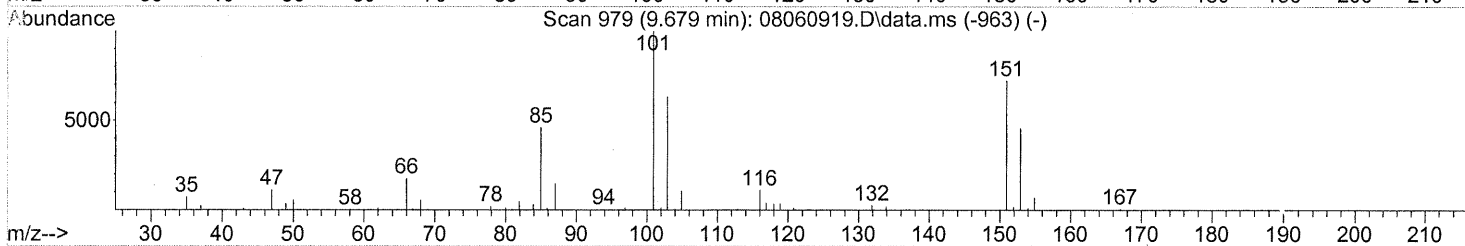
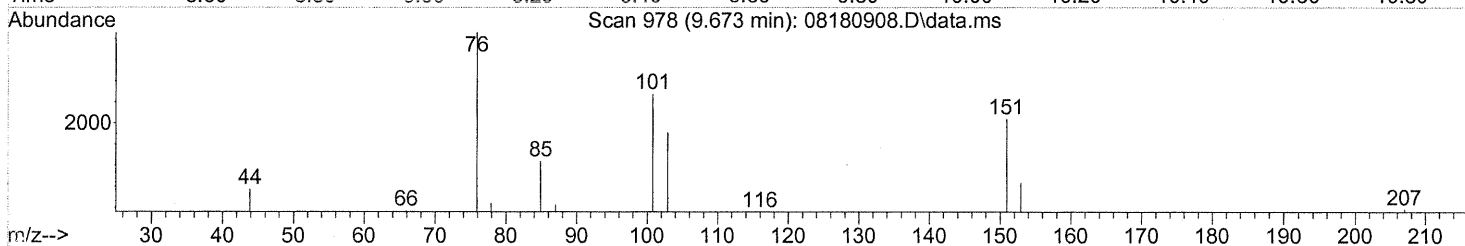
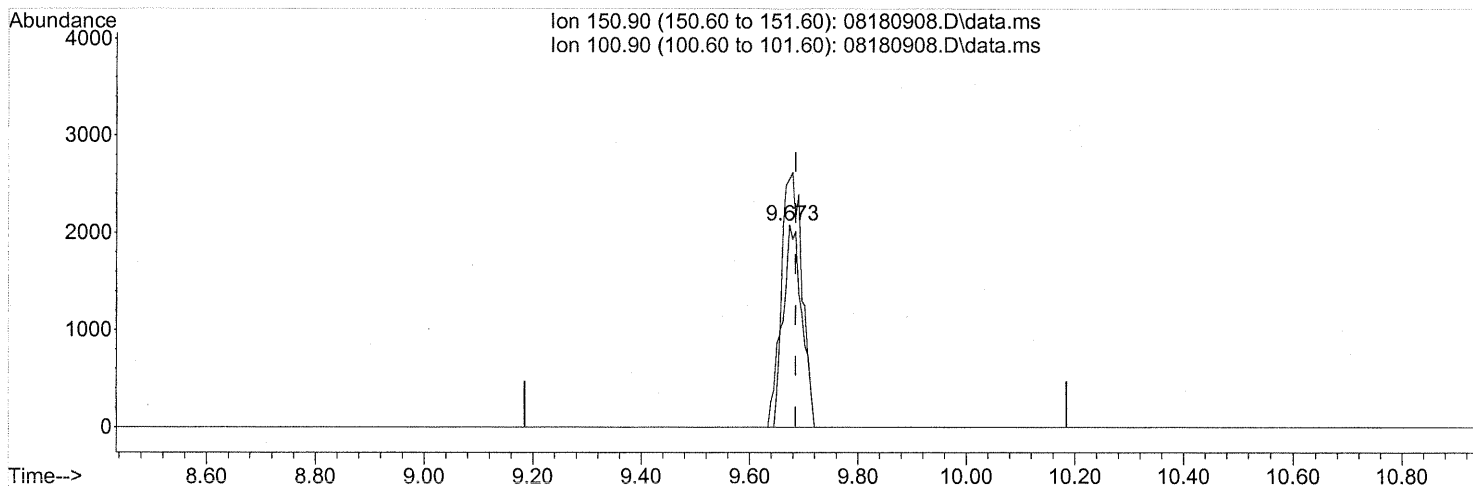
response 7956

Ion	Exp%	Act%
83.90	100	100
49.00	144.60	139.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 08180908.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.673min (-0.012) 0.51ng

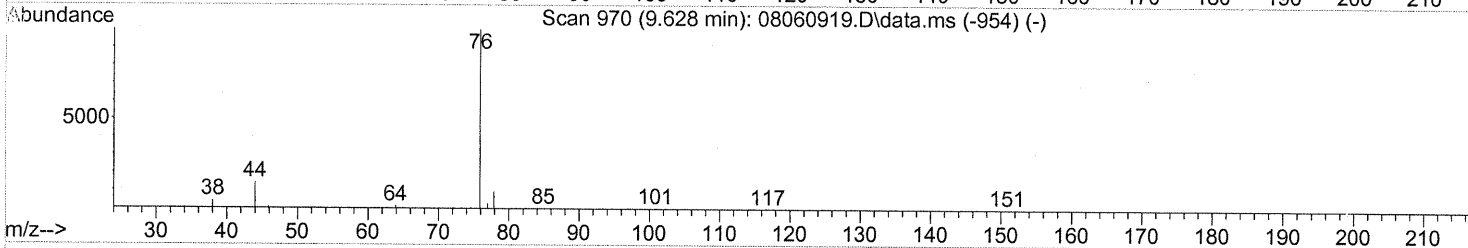
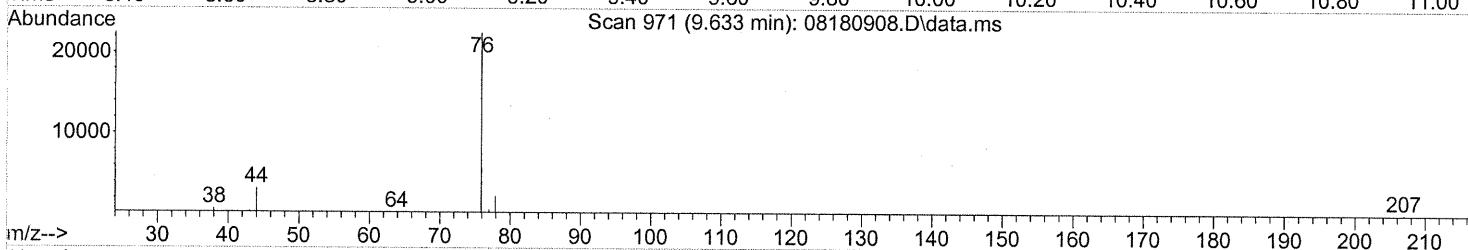
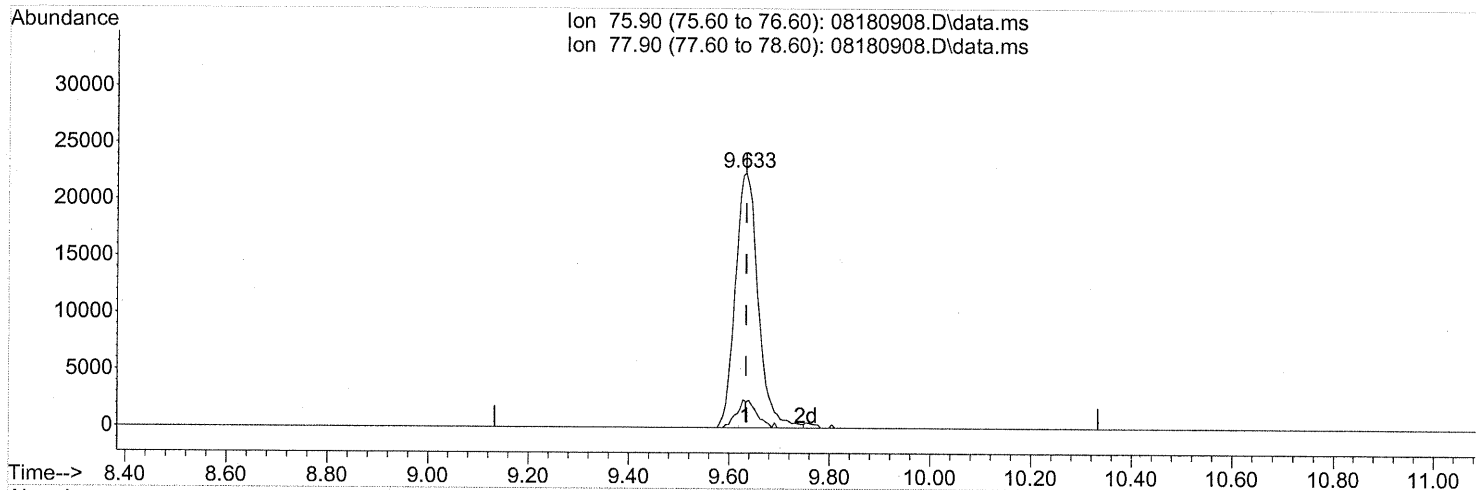
response 4931

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	140.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 08180908.D\data.ms

(22) Carbon Disulfide (T)

9.633min (-0.000) 1.38ng

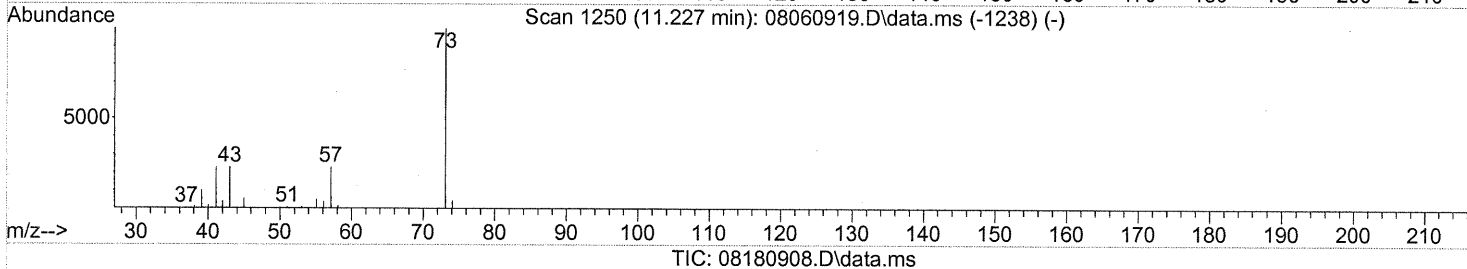
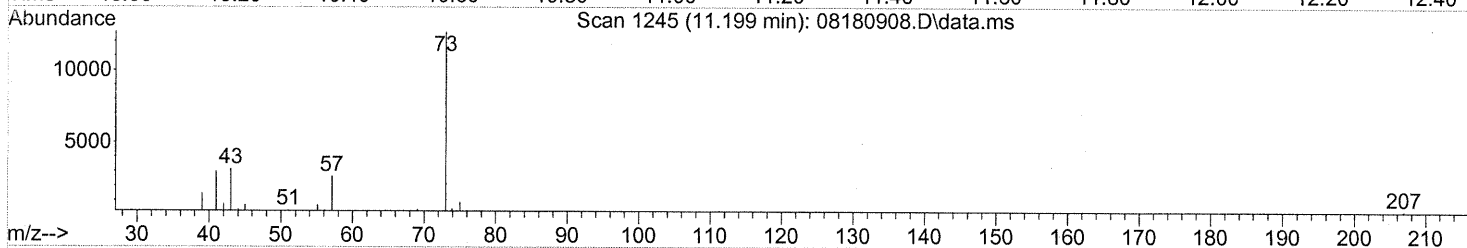
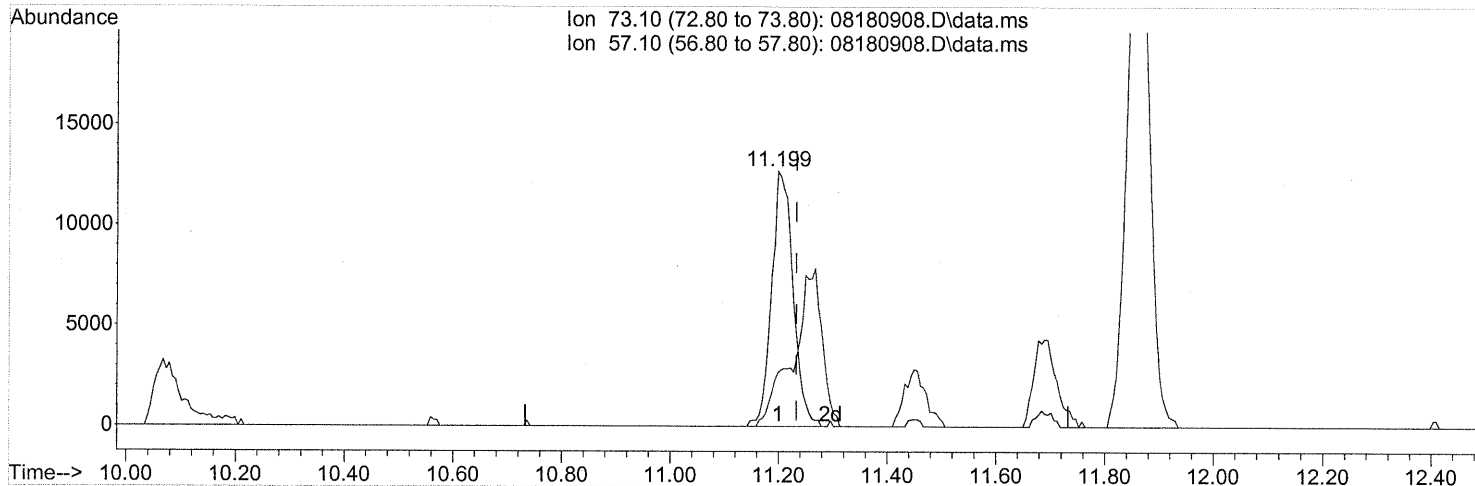
response 70705

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	9.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
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 ALS Vial : 13 Sample Multiplier: 1

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(25) Methyl tert-Butyl Ether (T)

11.199min (-0.034) 0.85ng

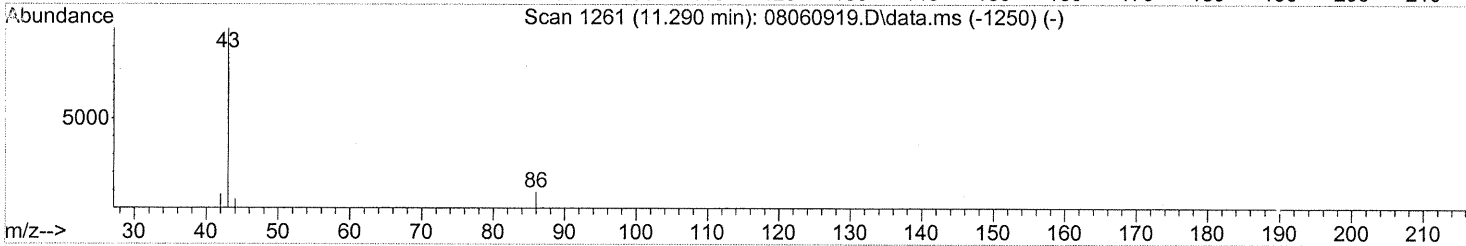
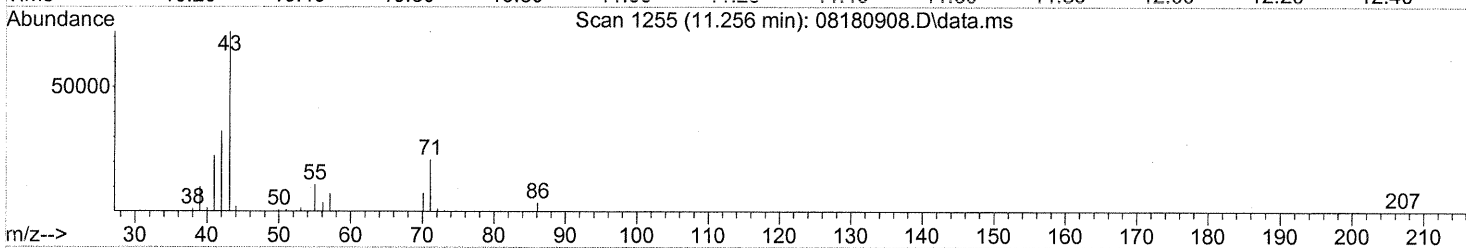
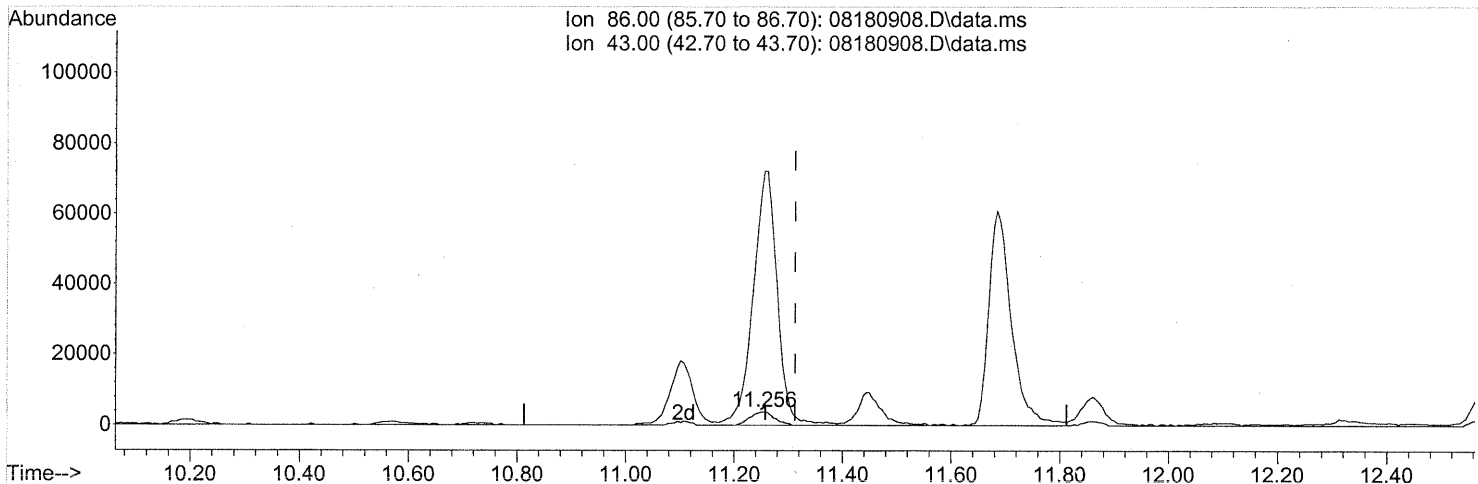
response 34787

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Response via : Initial Calibration



TIC: 08180908.D\data.ms

(26) Vinyl Acetate (T)

11.256min (-0.057) 5.11ng

response 11274

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1912.79#
0.00	0.00	0.00
0.00	0.00	0.00

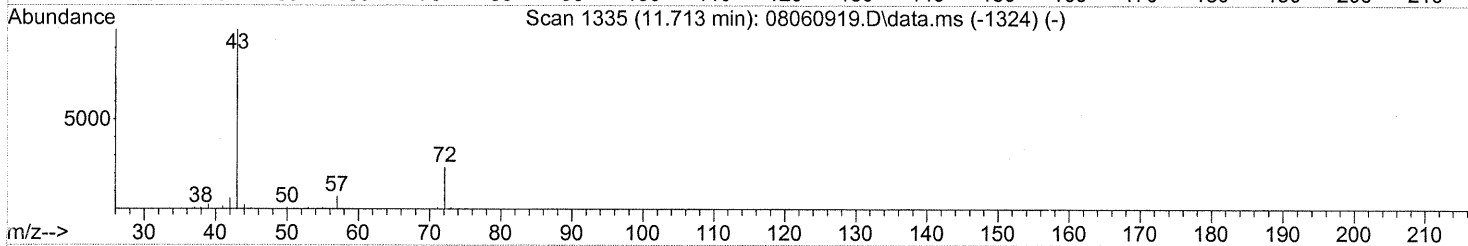
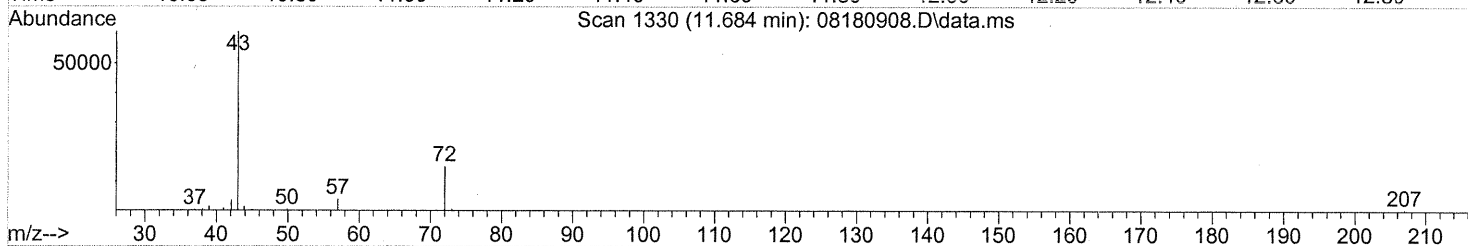
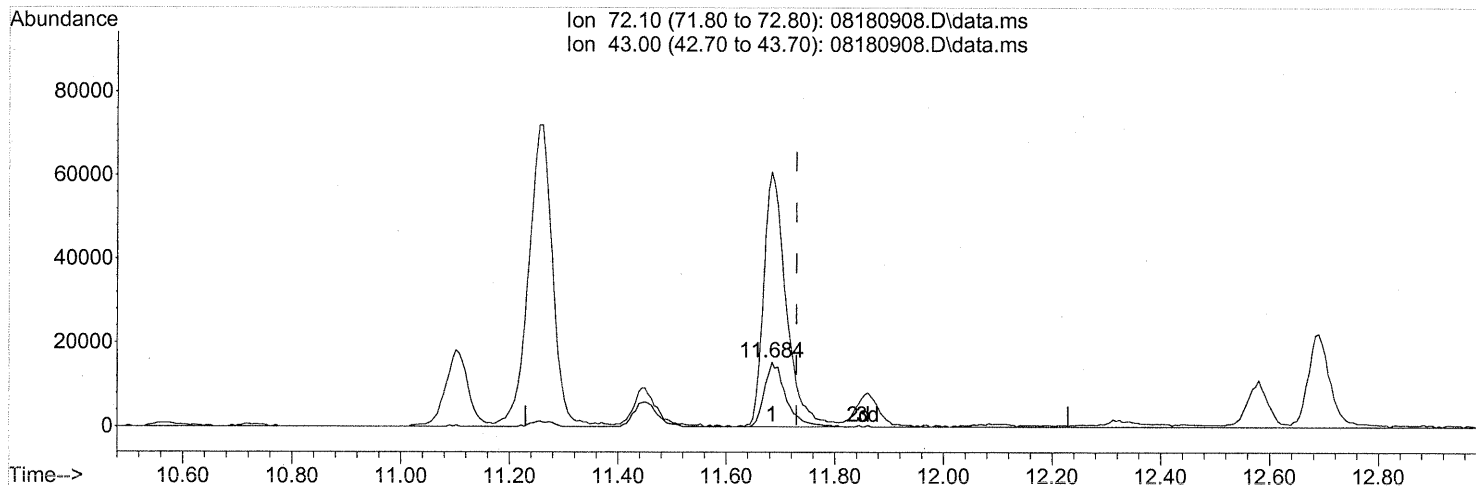
FP

WA 8/22/09 Cem 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180908.D\data.ms

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

11.684min (-0.046) 4.28ng

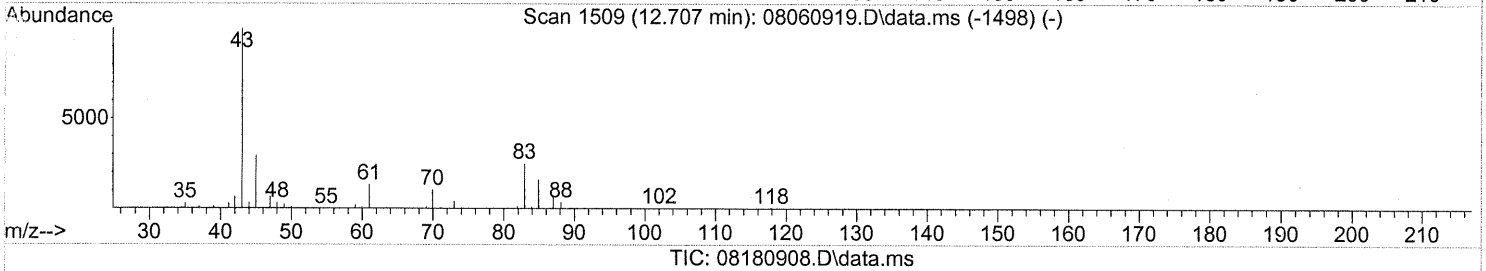
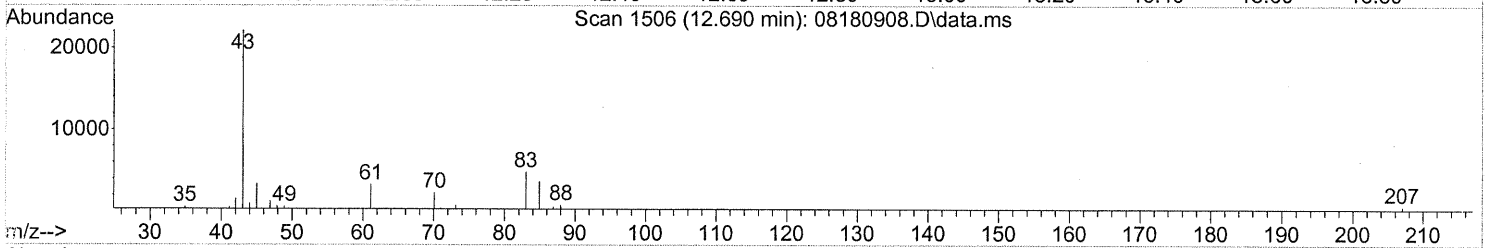
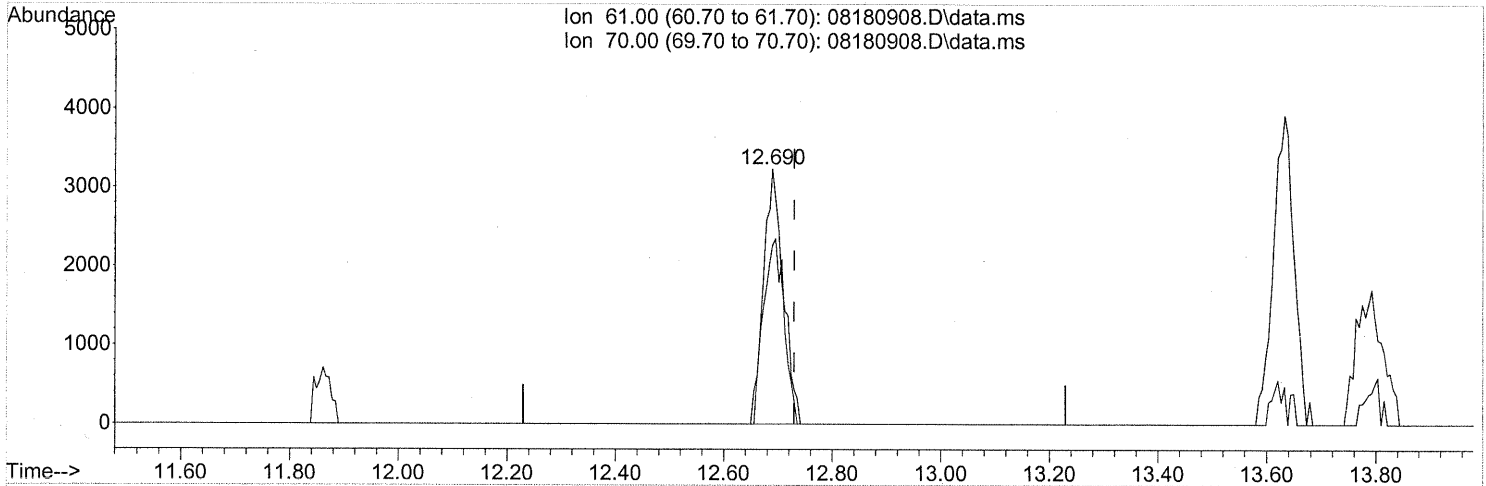
response 41876

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	419.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.690min (-0.040) 1.60ng

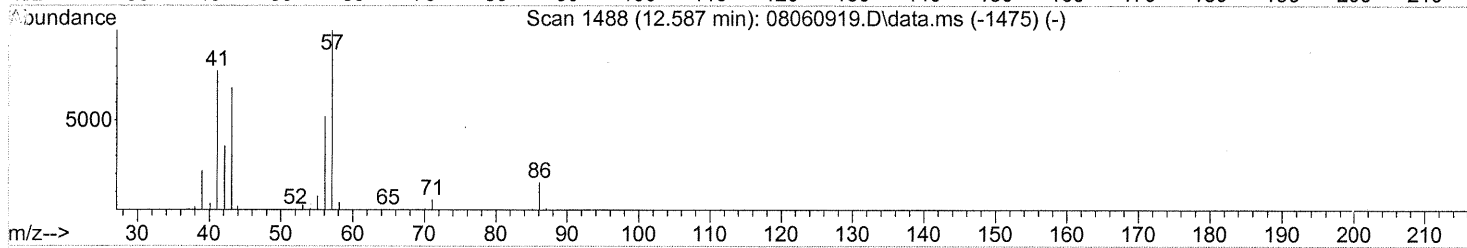
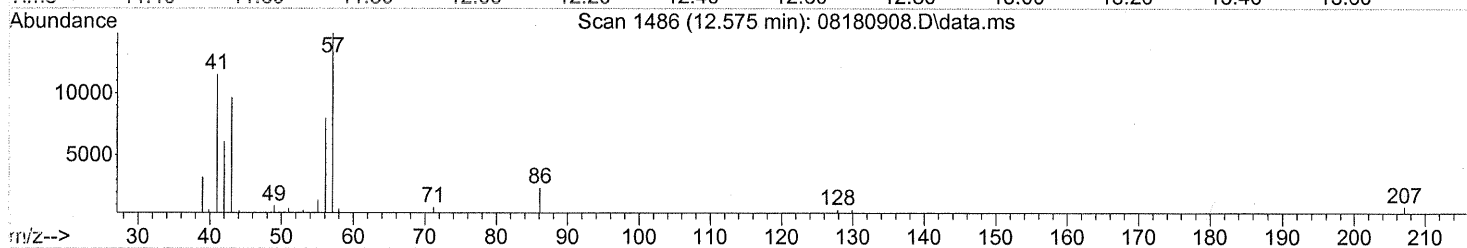
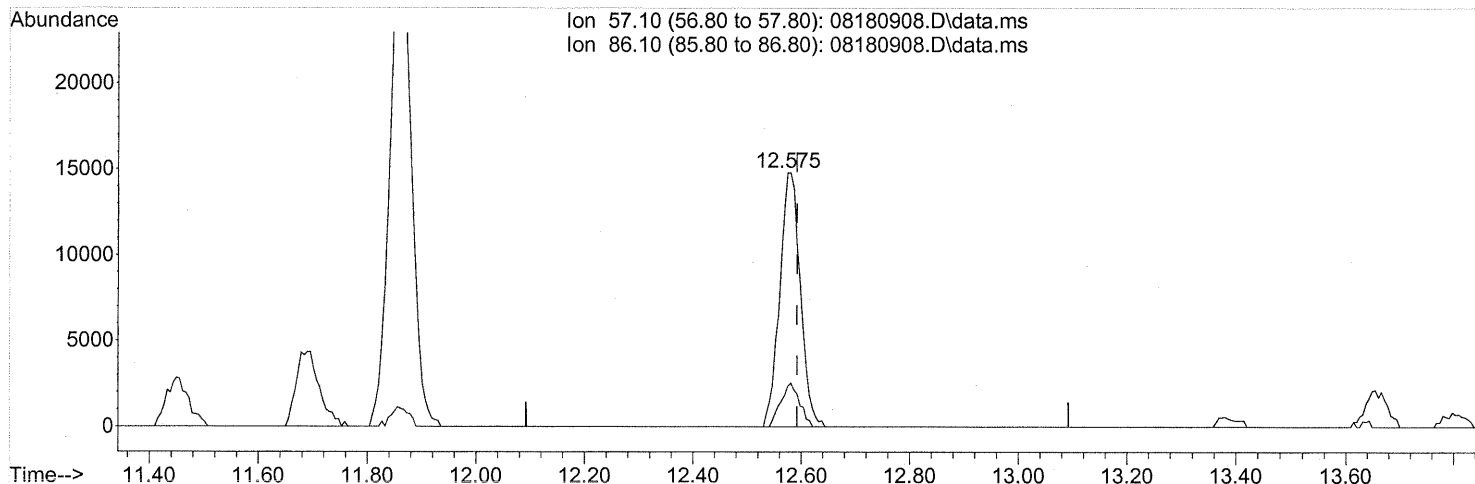
response 8168

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	76.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180908.D\data.ms

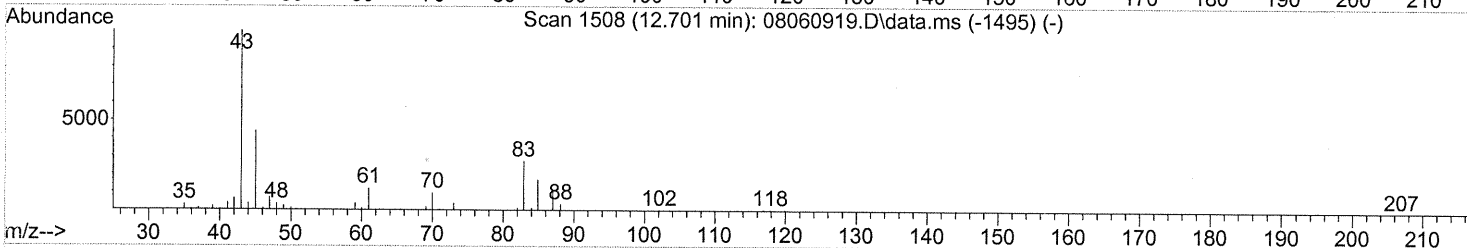
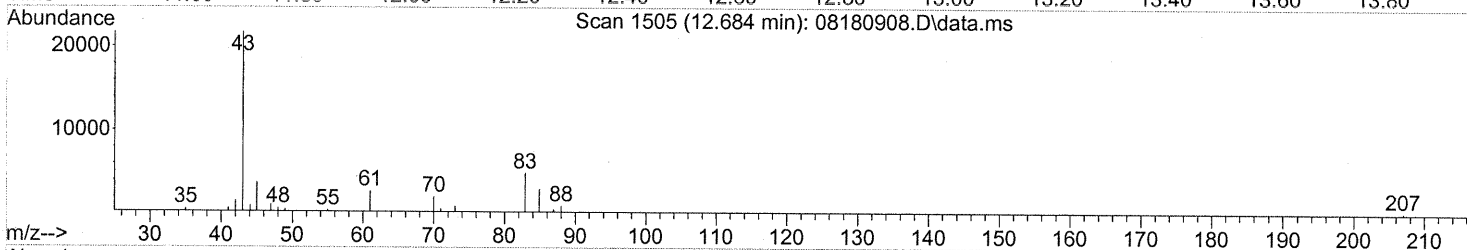
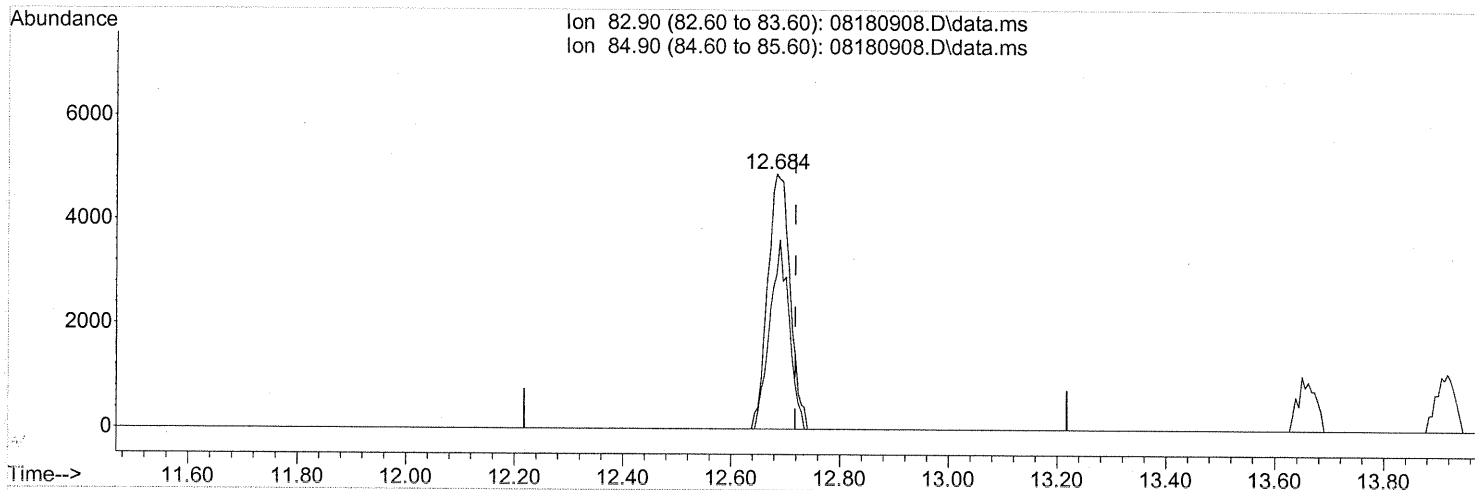
(31) n-Hexane (T)
 12.575min (-0.017) 1.50ng
 response 39043

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180908.D\data.ms

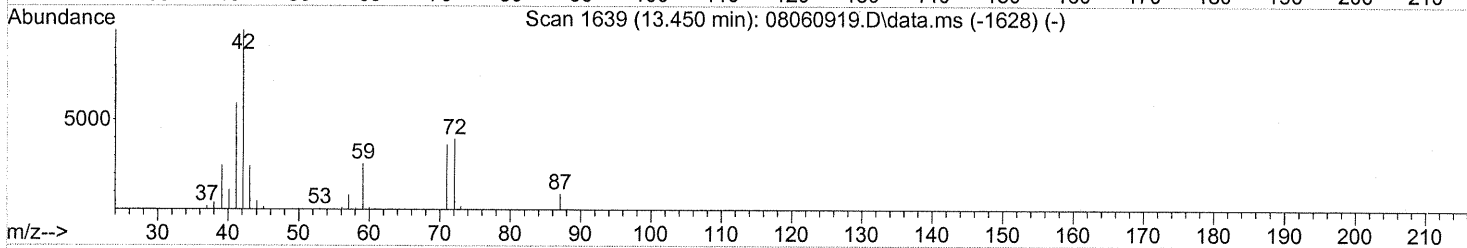
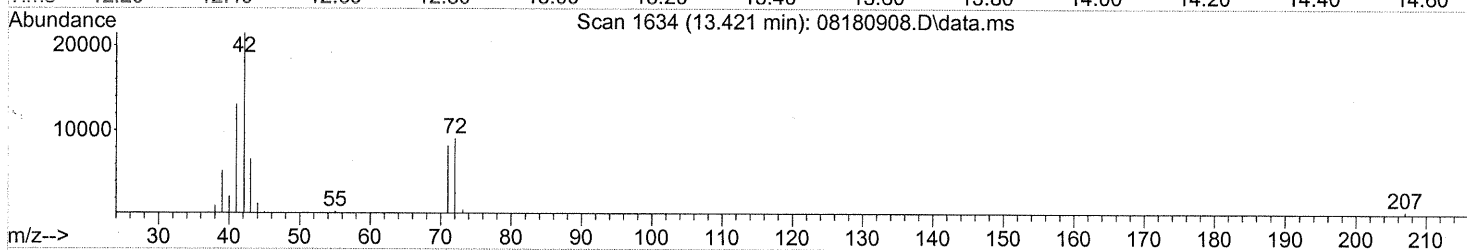
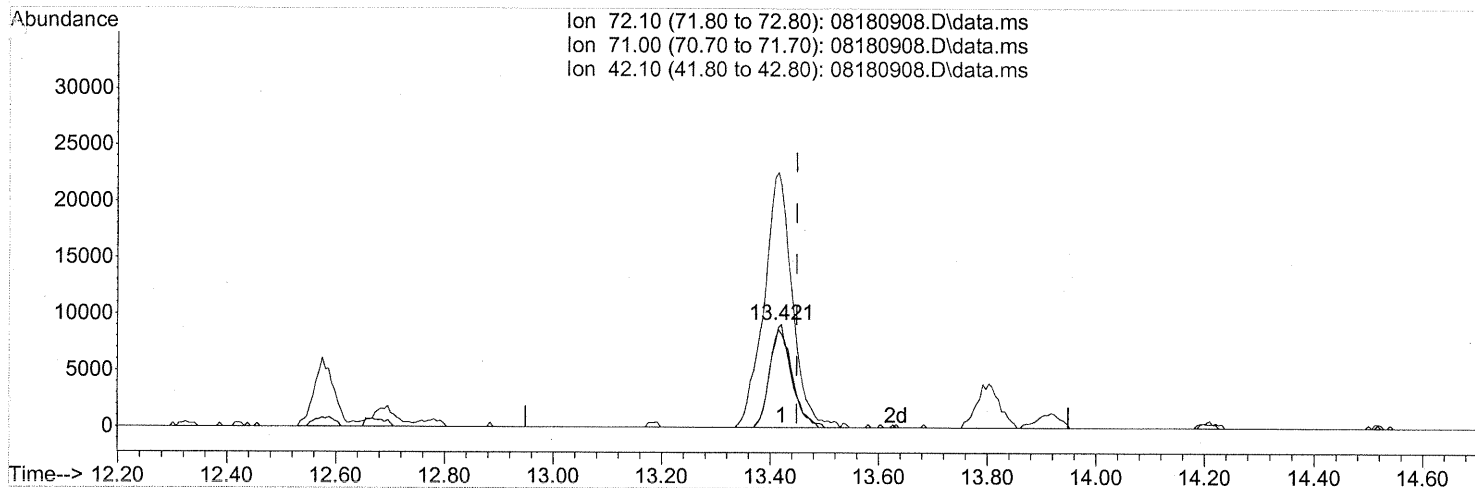
(32) Chloroform (T)
 12.684min (-0.034) 0.61ng
 response 13978

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	63.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
Data File : 08180908.D
Acq On : 18 Aug 2009 19:25
Operator : WA
Sample : P0902766-001 dup (1000mL)
Misc : Env. Health & Engineering 101160
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08180908.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.421min (-0.028) 2.44ng

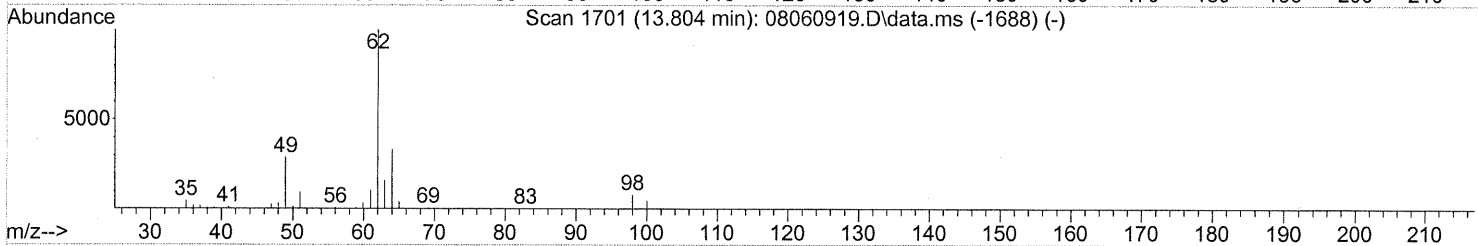
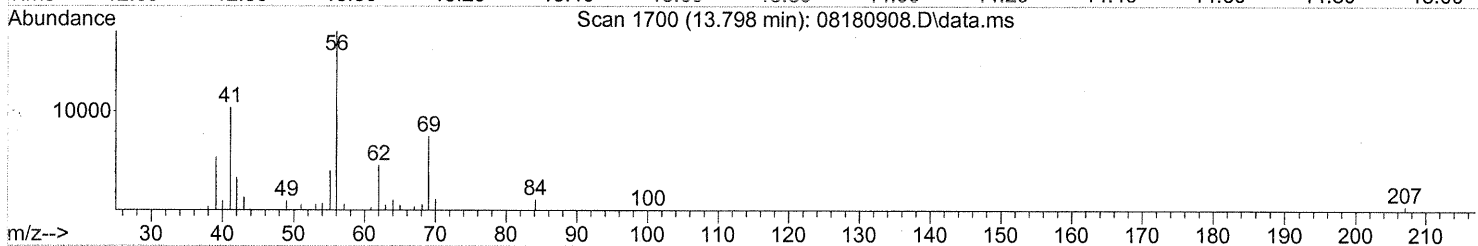
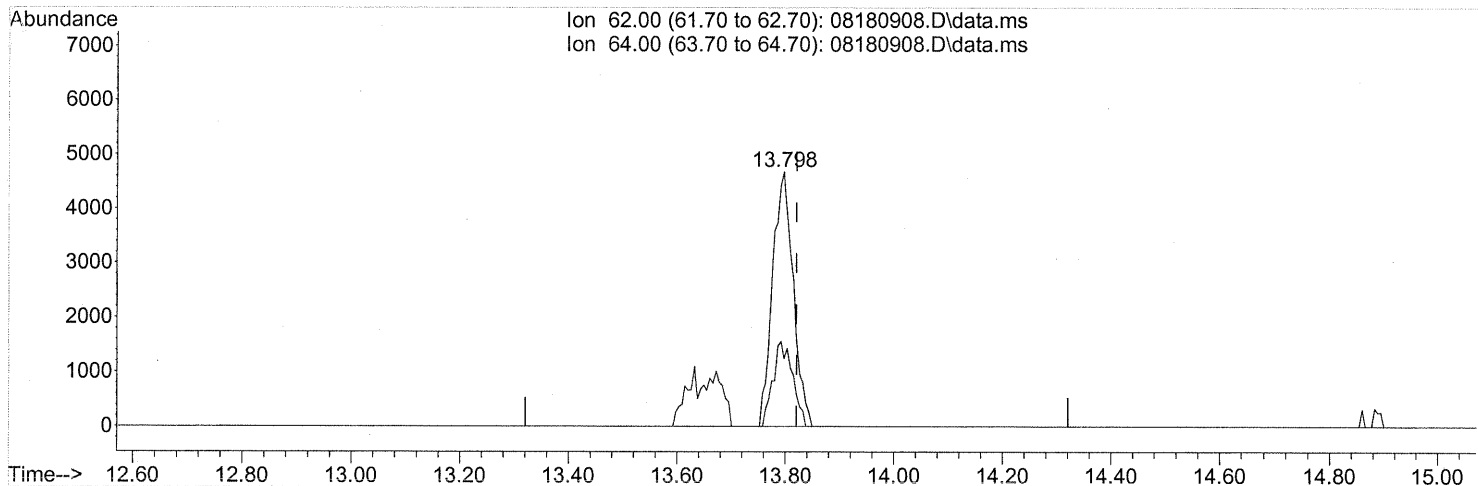
response 25508

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	96.86
42.10	253.40	318.05#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180908.D\data.ms

(36) 1,2-Dichloroethane (T)

13.798min (-0.023) 0.58ng

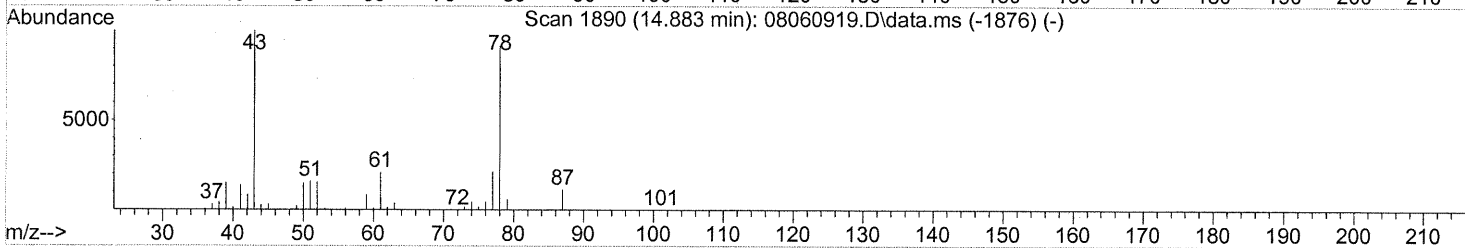
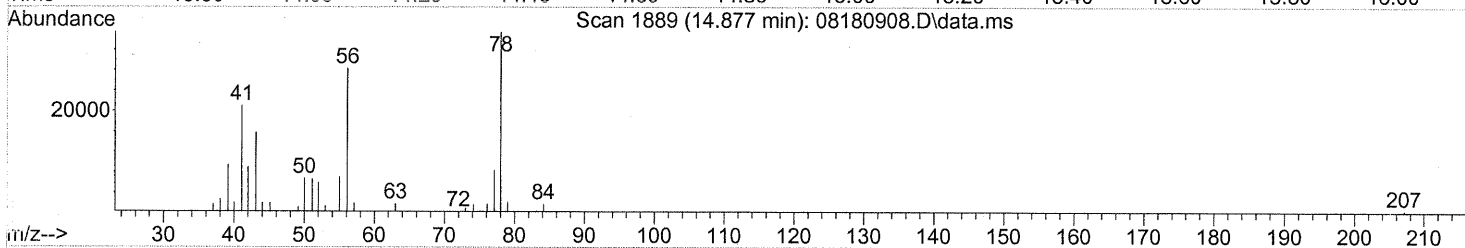
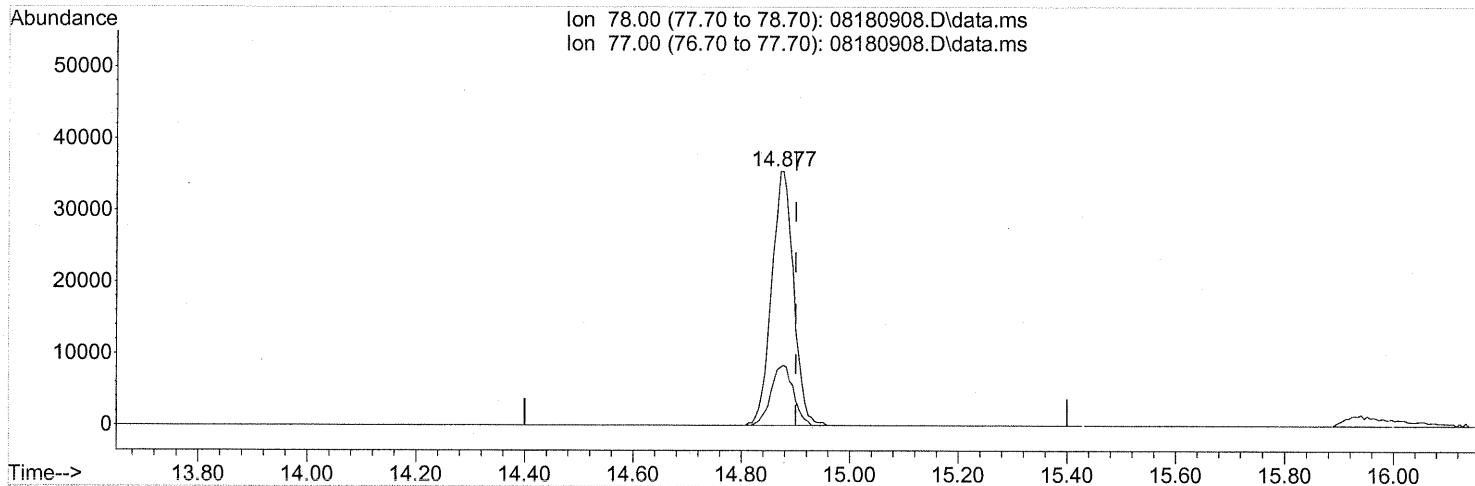
response 12276

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180908.D\data.ms

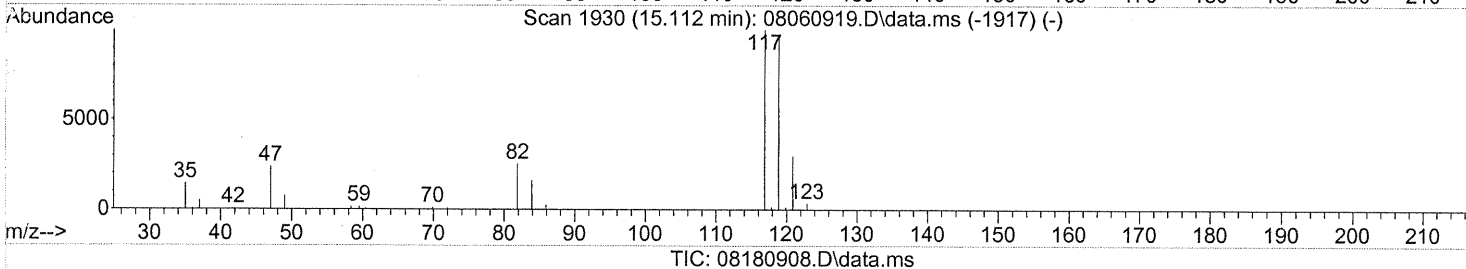
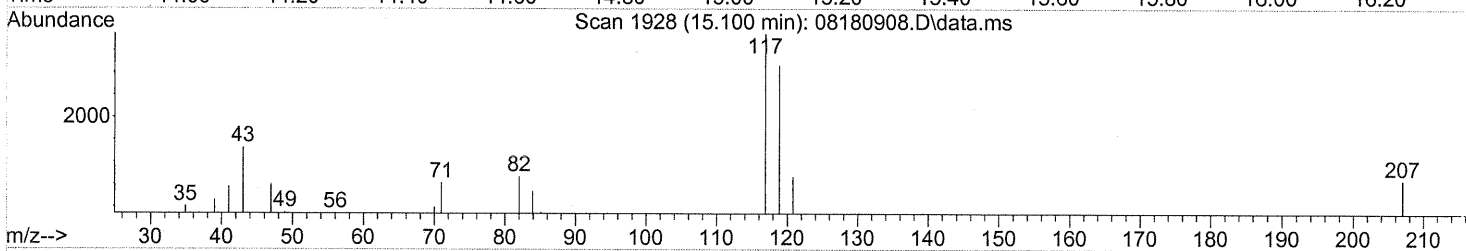
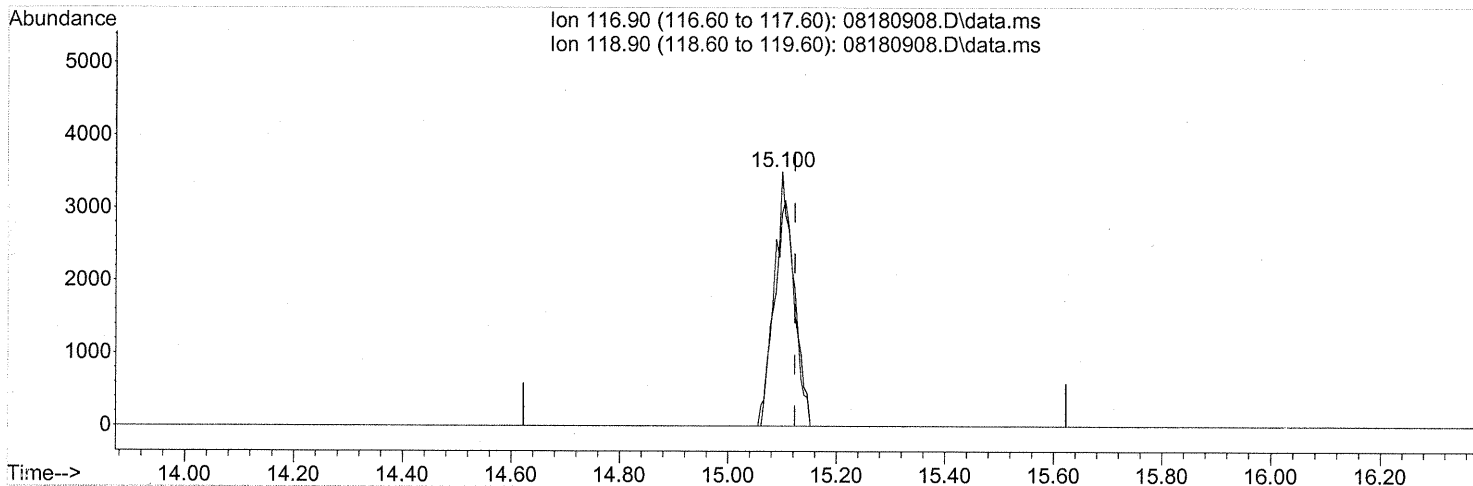
(41) Benzene (T)
 14.877min (-0.023) 1.68ng
 response 99456

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
Data File : 08180908.D
Acq On : 18 Aug 2009 19:25
Operator : WA
Sample : P0902766-001 dup (1000mL)
Misc : Env. Health & Engineering 101160
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.45ng

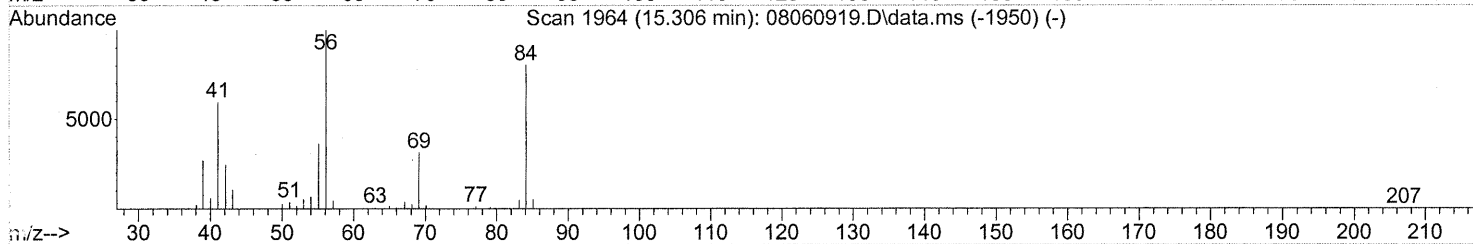
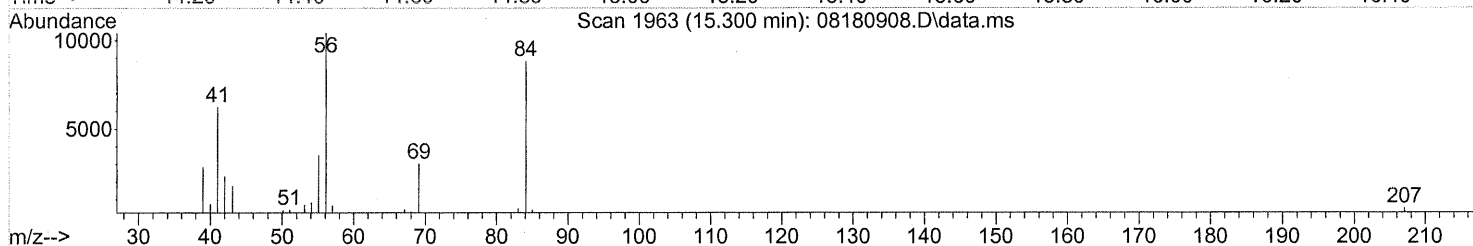
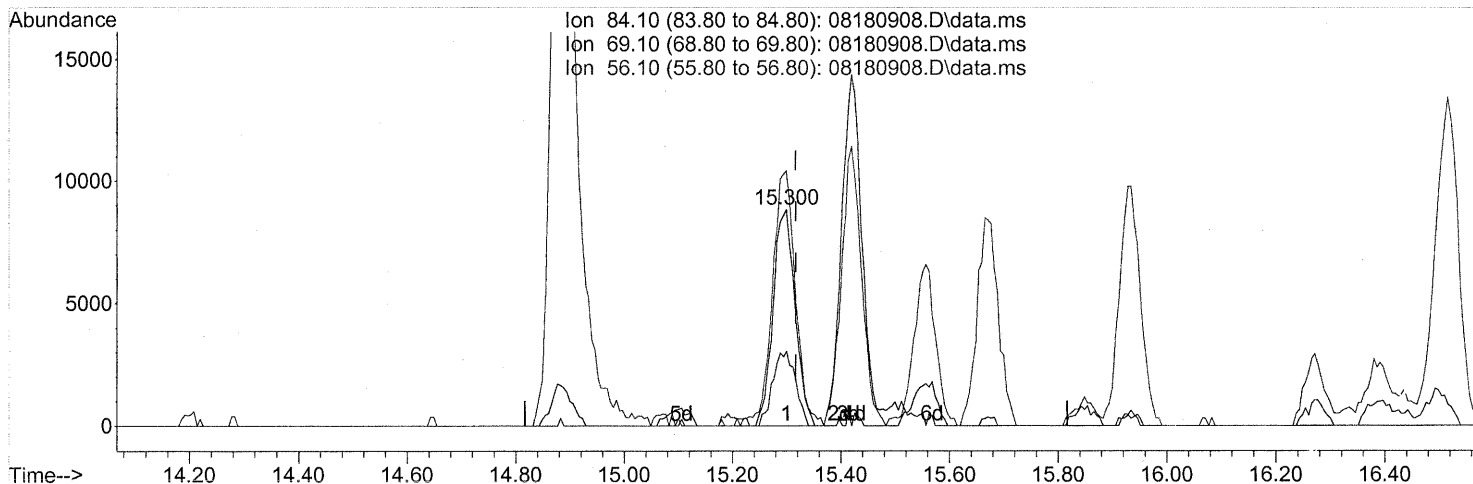
response 8511

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	98.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180908.D\data.ms

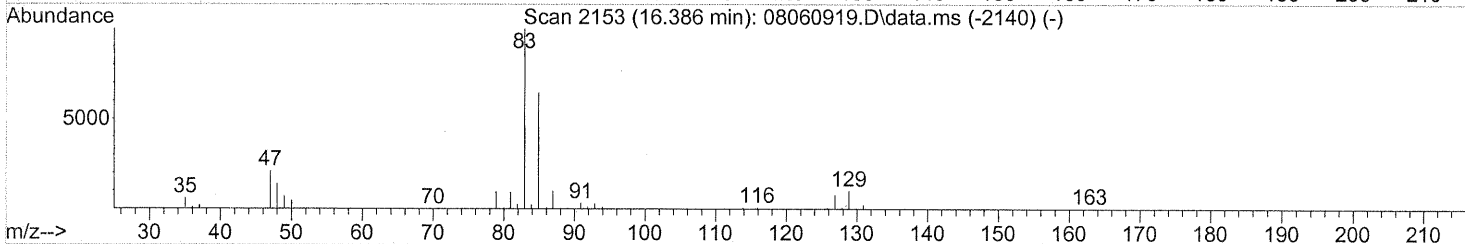
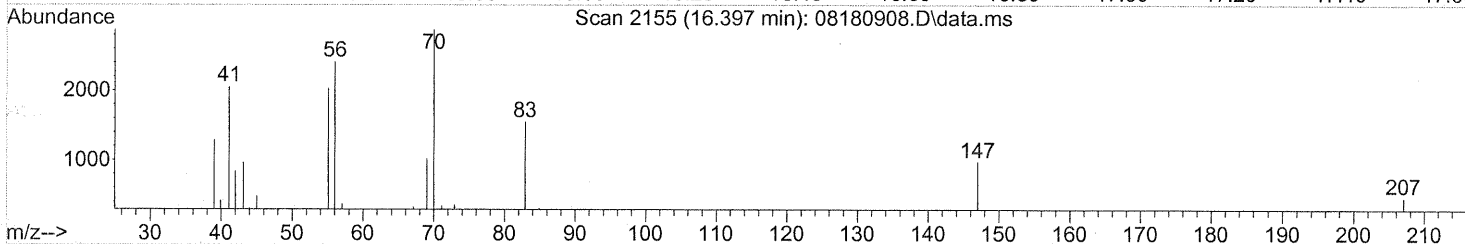
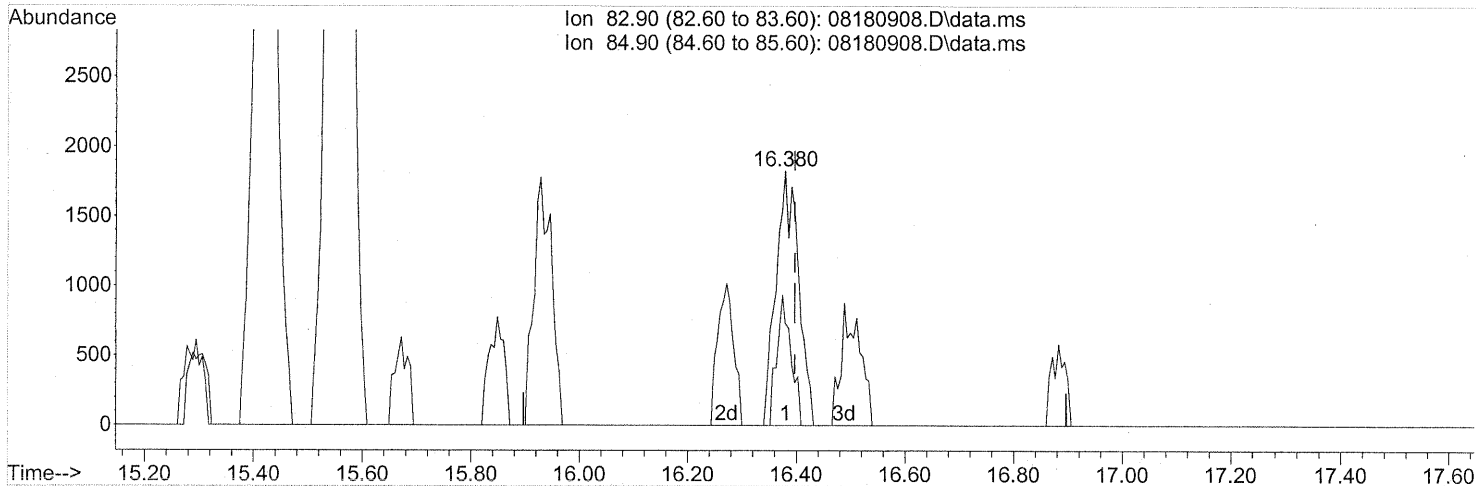
(43) Cyclohexane (T)
 15.300min (-0.017) 1.14ng
 response 24755

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	35.70
56.10	127.50	125.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 21 16:32:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.27ng

response 5228

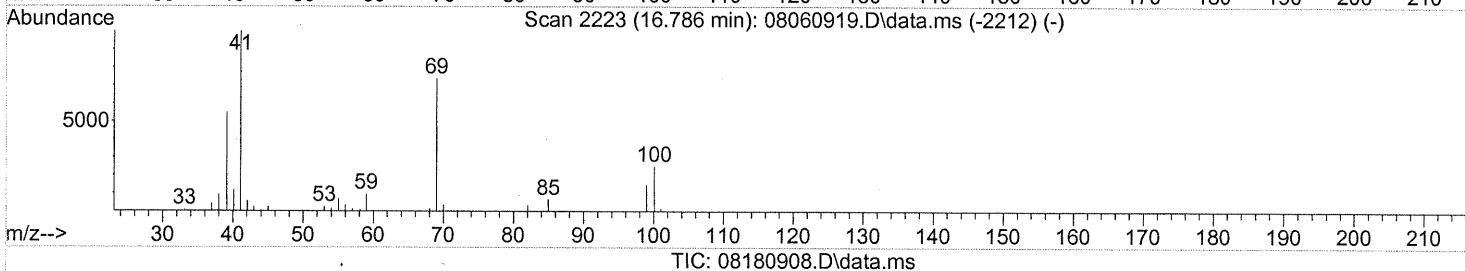
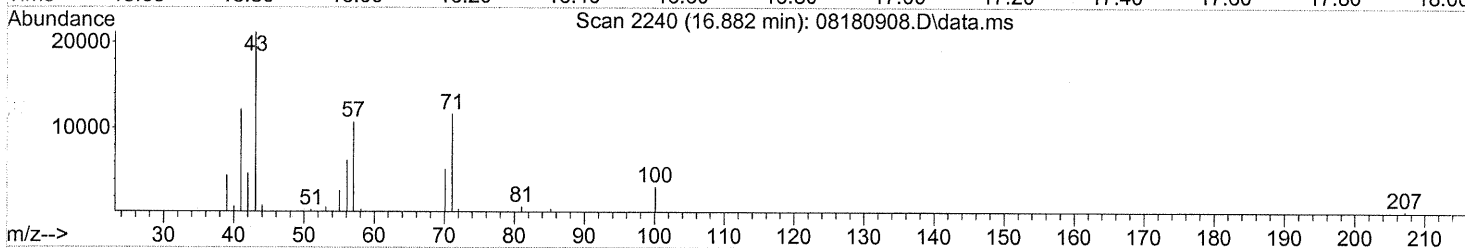
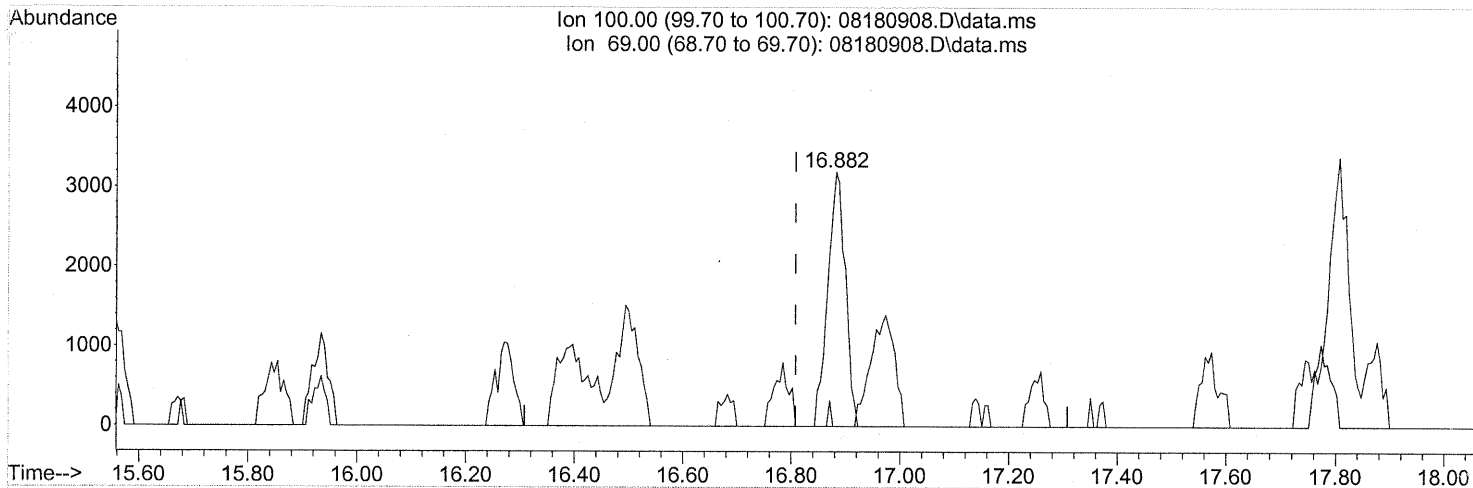
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	32.31#
0.00	0.00	0.00
0.00	0.00	0.00

TP
8/25/09 *em* *8/25/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.882min (+0.074) 1.31ng

response 7149

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	1.52#
0.00	0.00	0.00
0.00	0.00	0.00

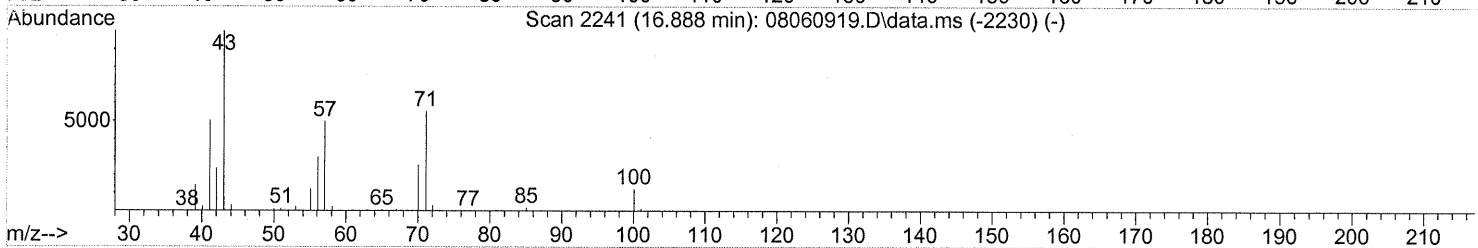
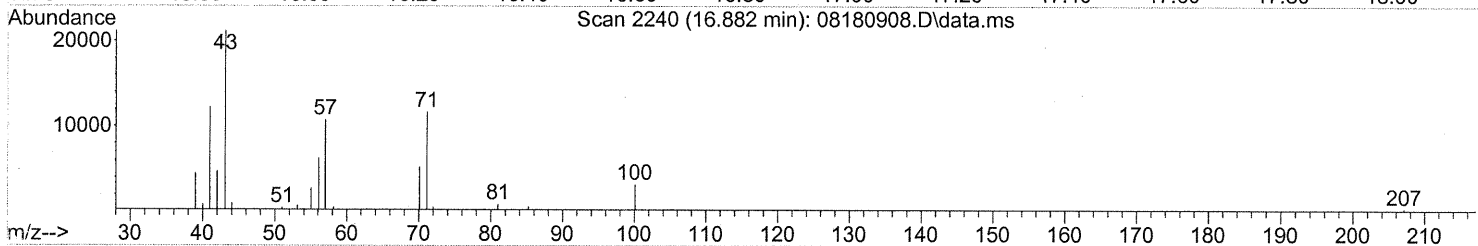
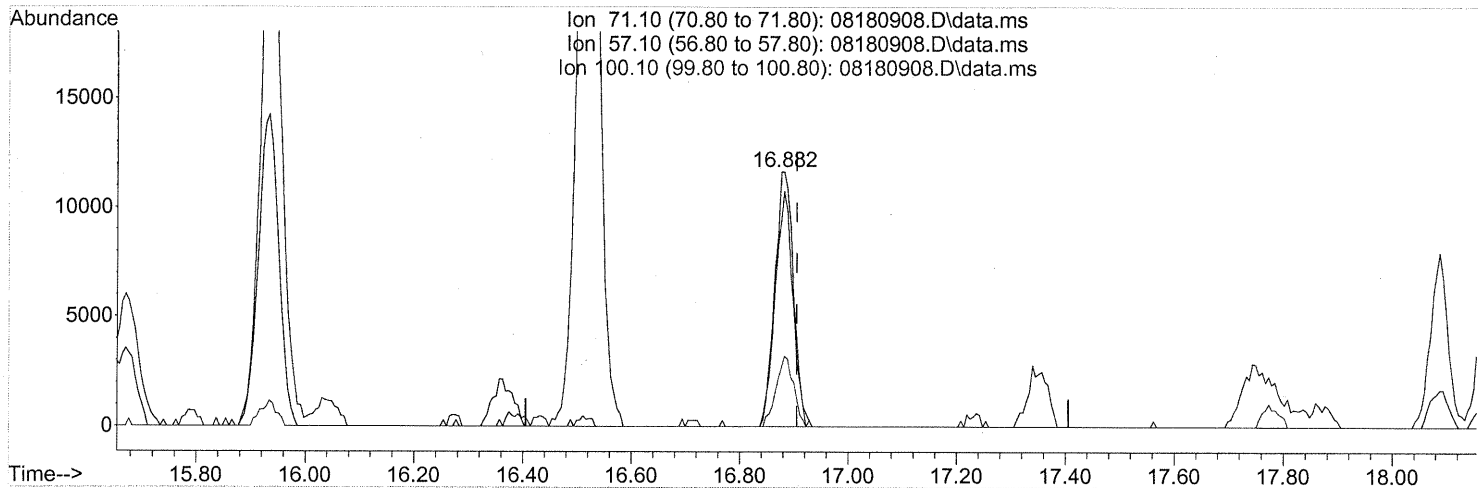
FP

WA 8/22/09 Em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



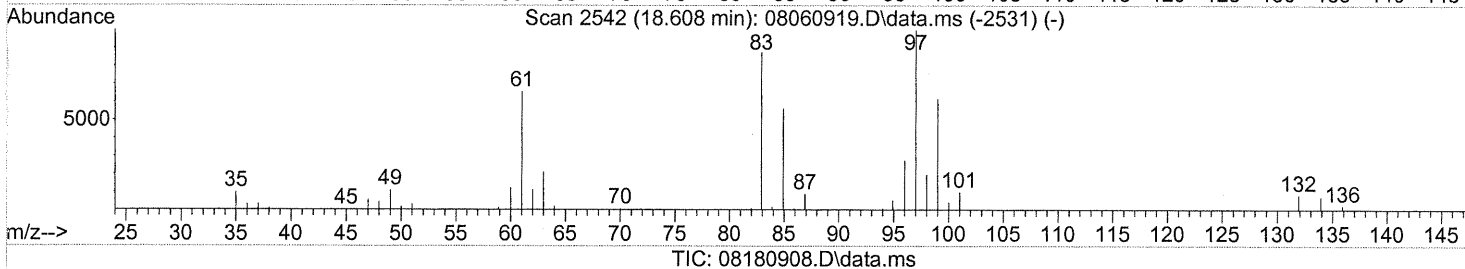
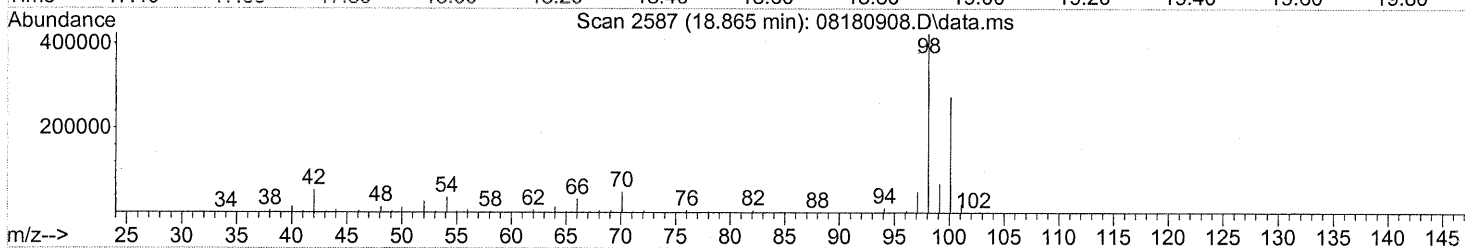
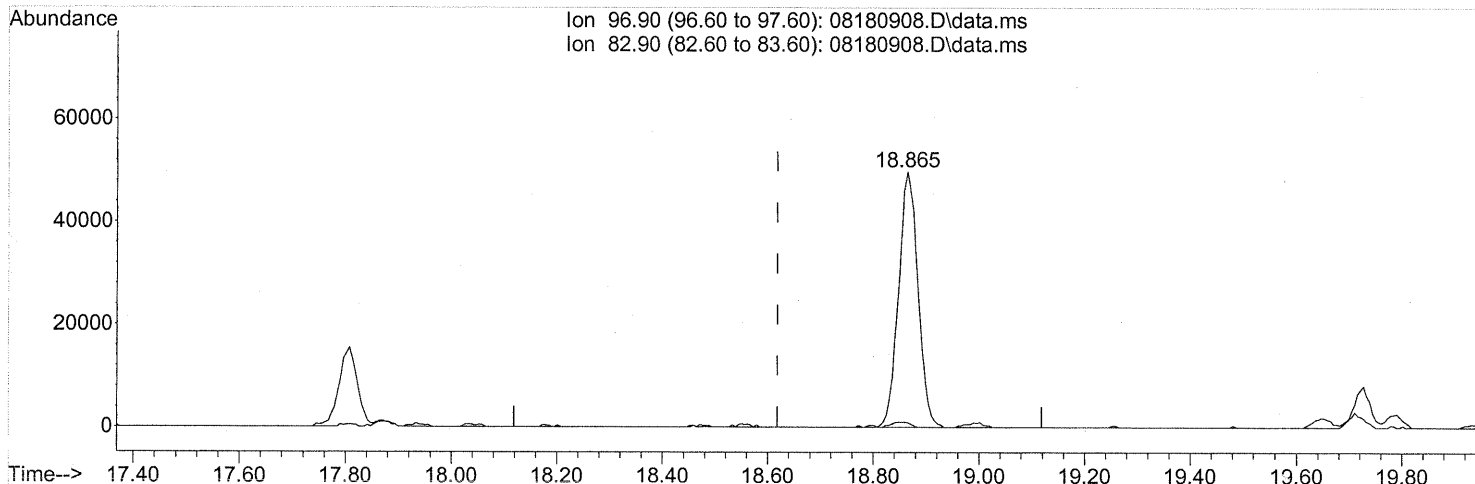
(51) n-Heptane (T)
 16.882min (-0.023) 1.76ng
 response 27905

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	87.39
100.10	26.40	25.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

18.865min (+0.246) 9.77ng

response 126627

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.84#
0.00	0.00	0.00
0.00	0.00	0.00

TP

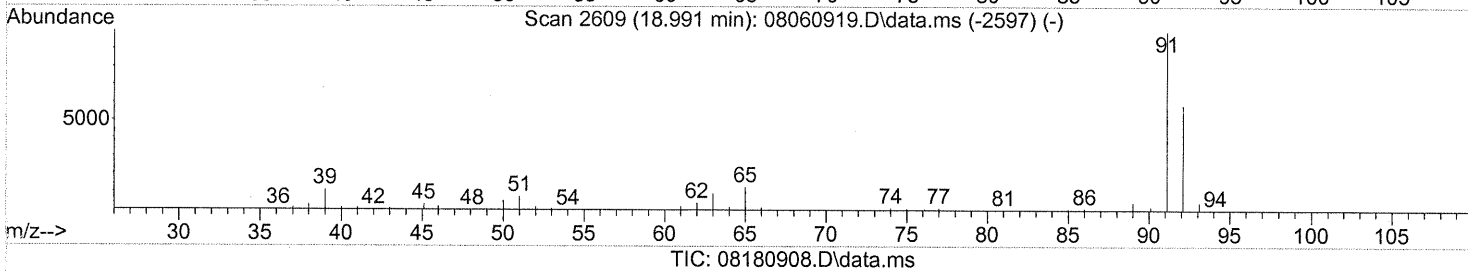
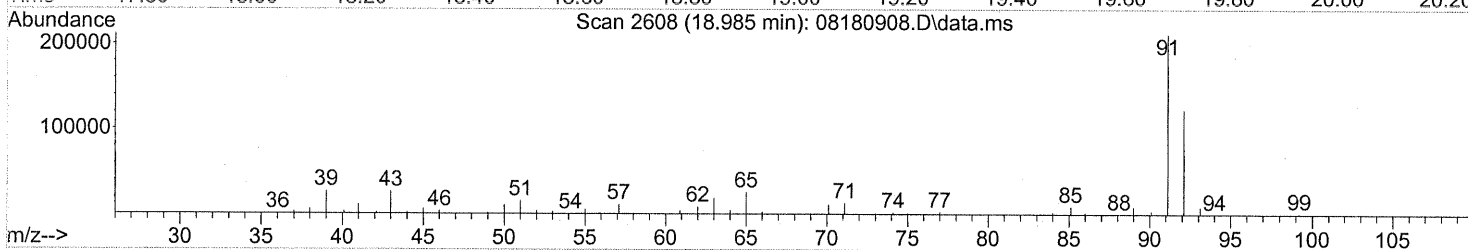
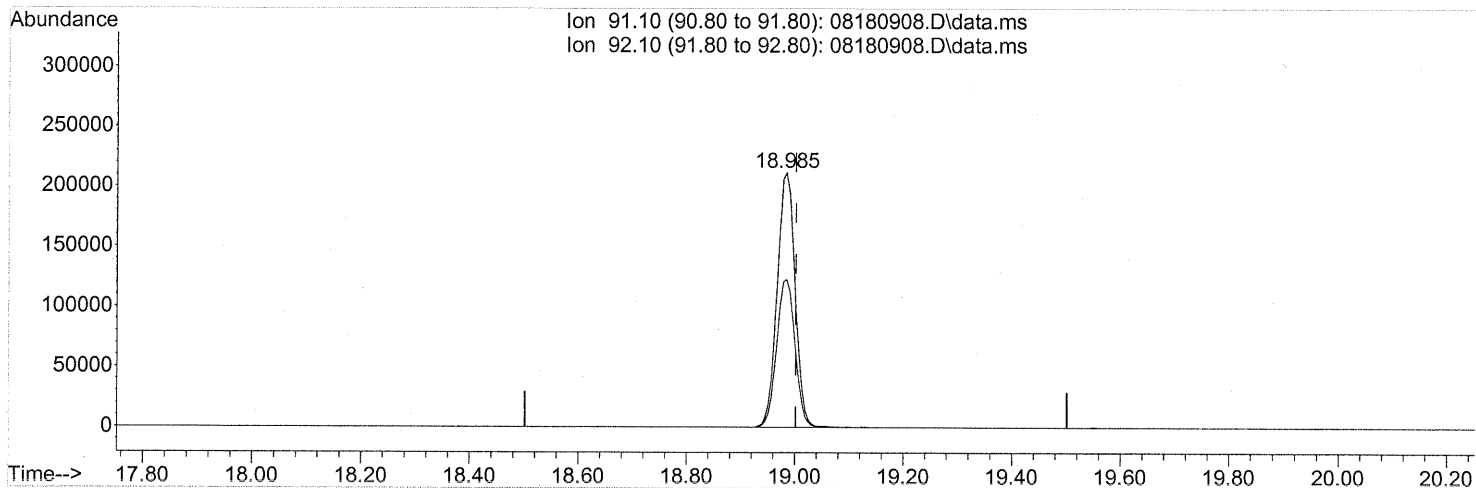
IDA 8/22/09

Em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.985min (-0.017) 8.78ng

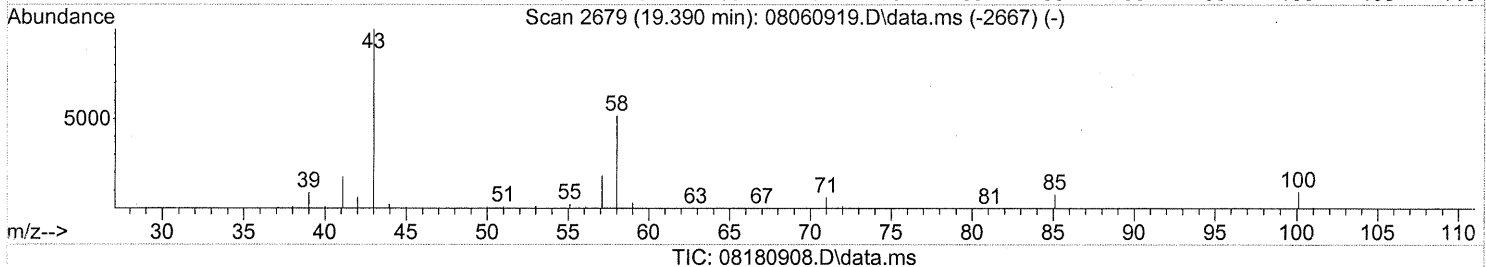
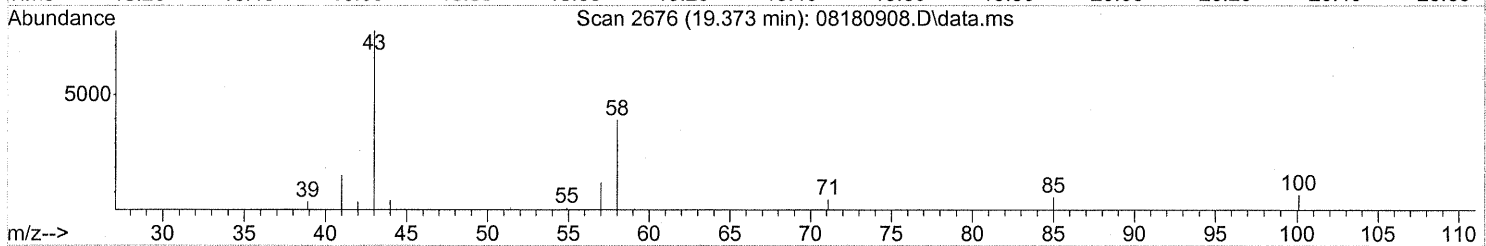
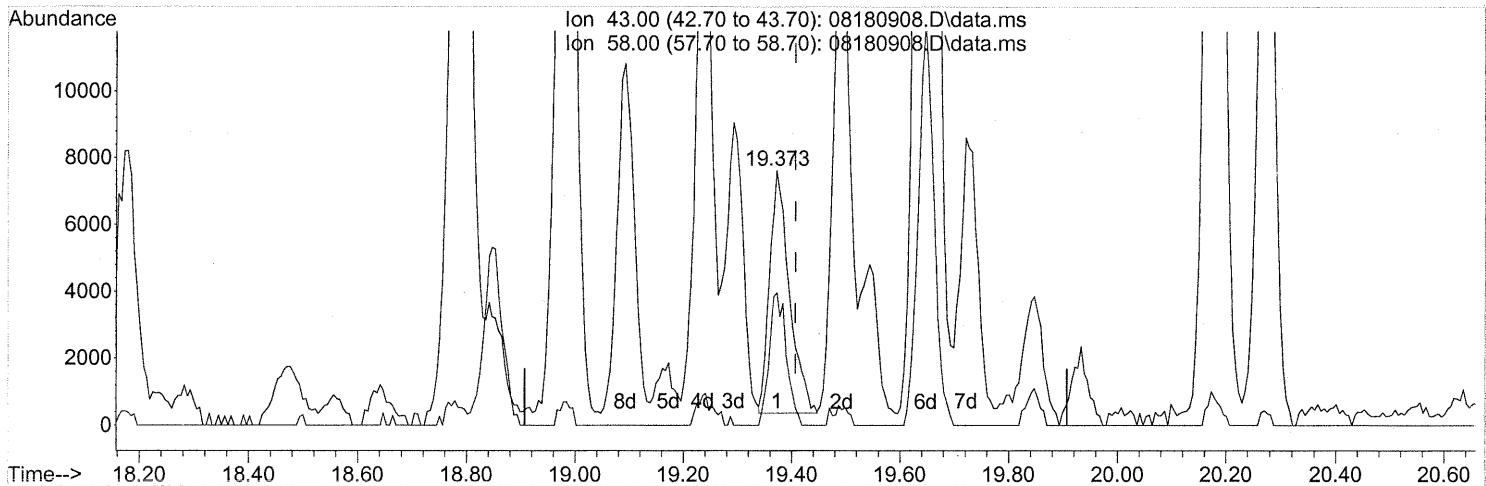
response 481242

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



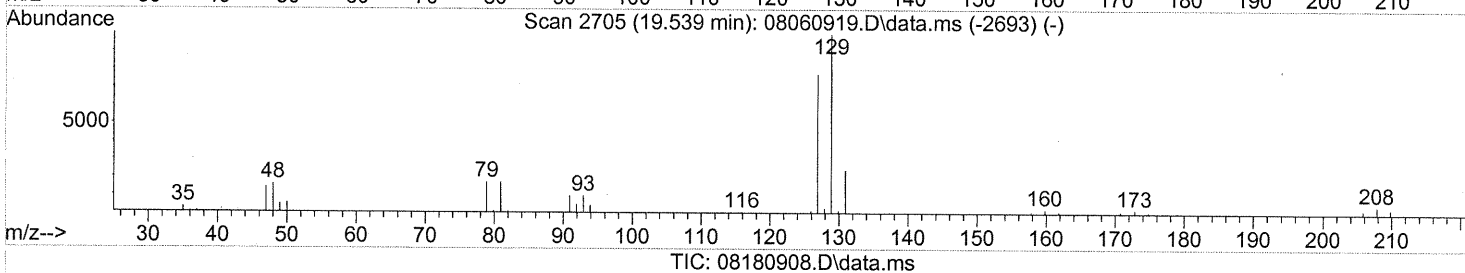
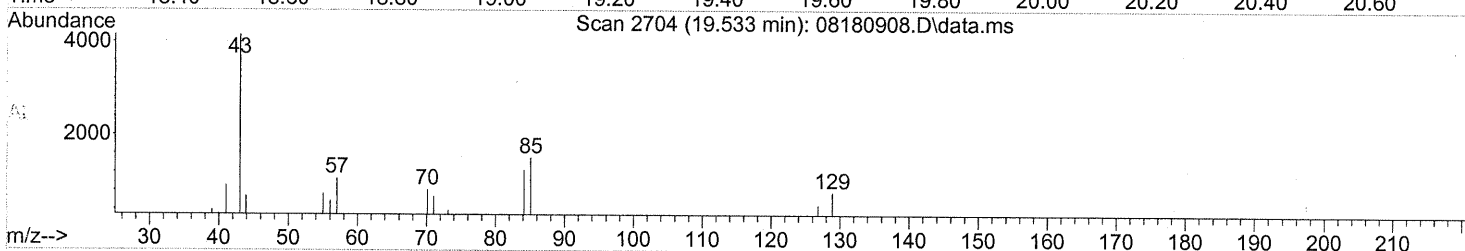
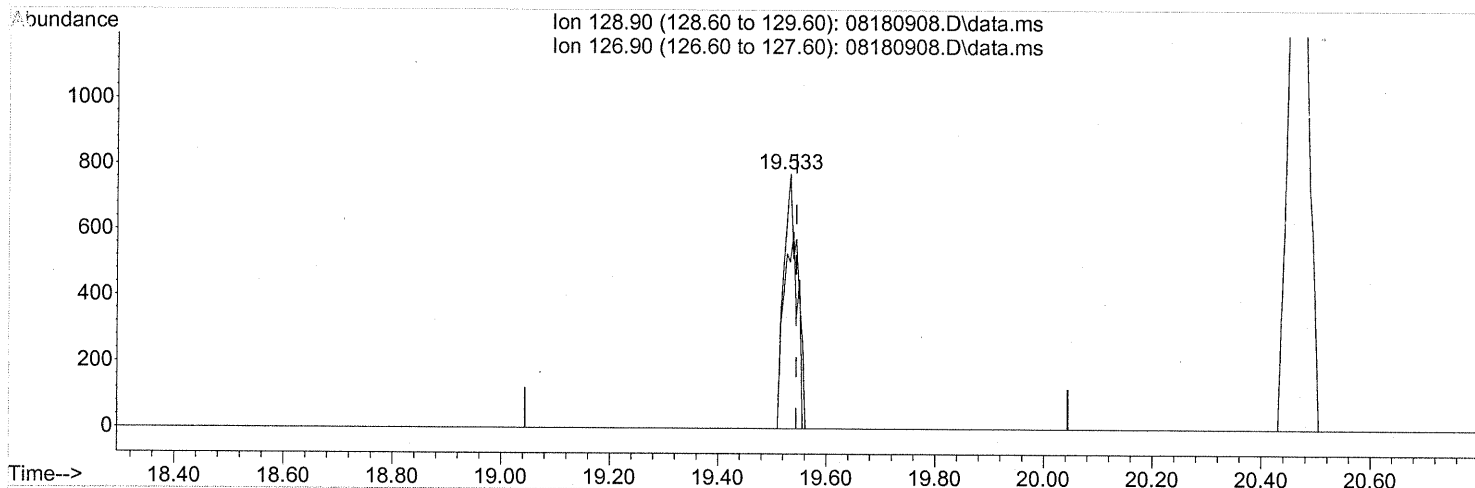
(59) 2-Hexanone (T)
 19.373min (-0.034) 0.51ng
 response 18545

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	47.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.533min (-0.012) 0.11ng

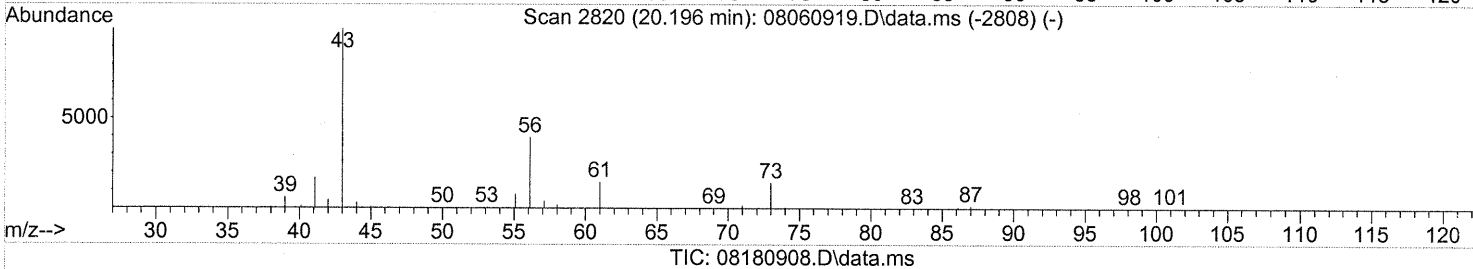
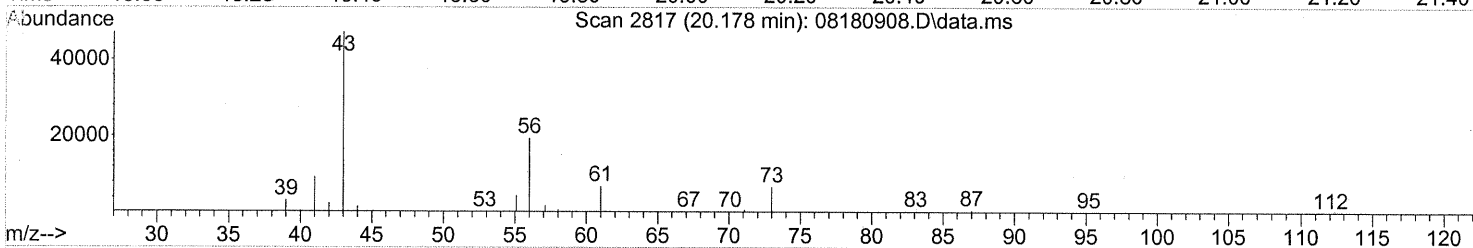
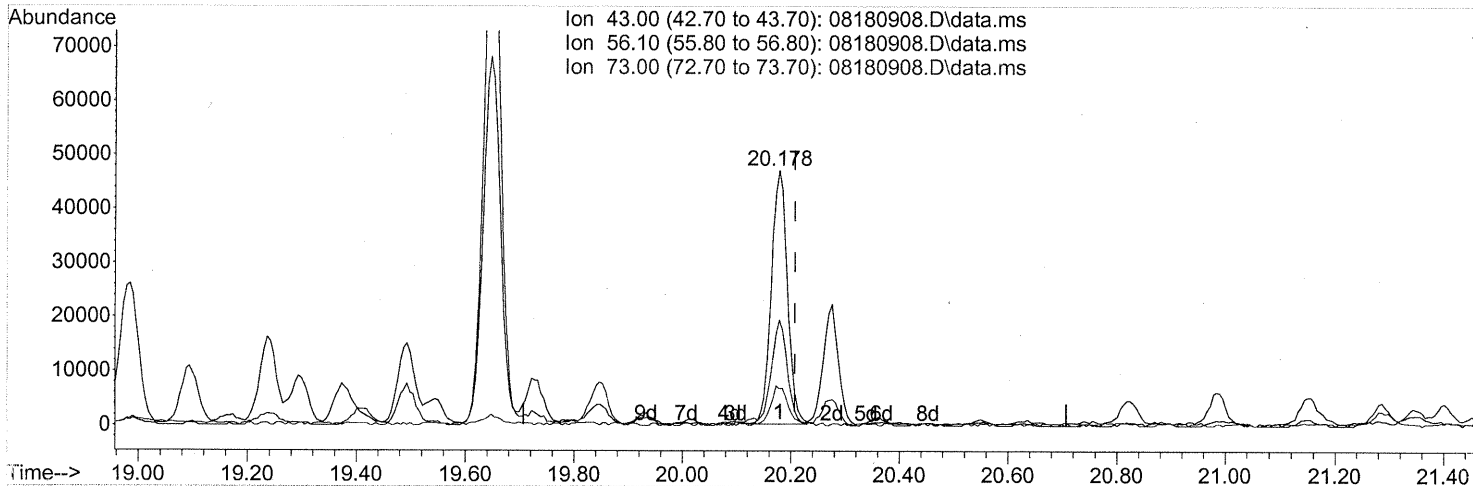
response 1370

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	78.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



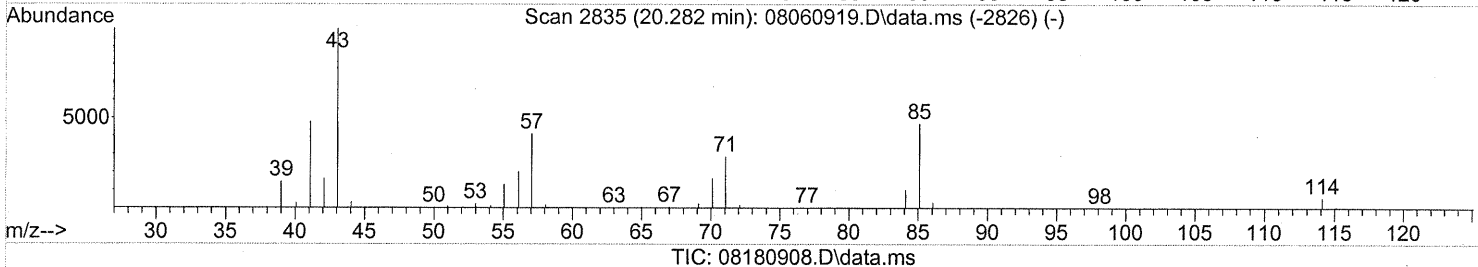
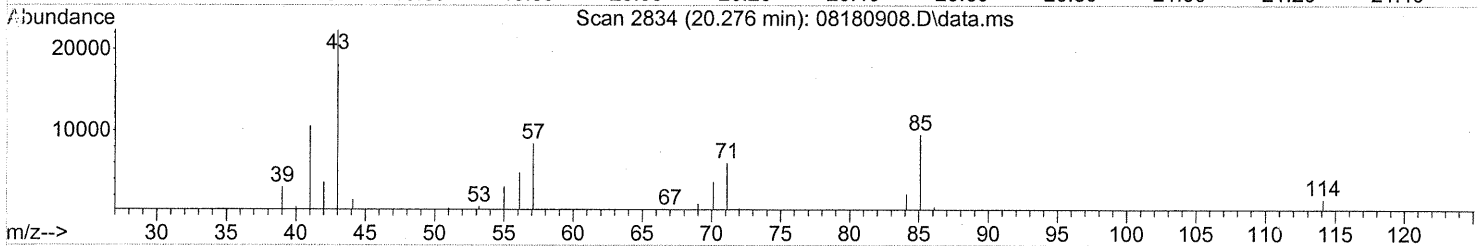
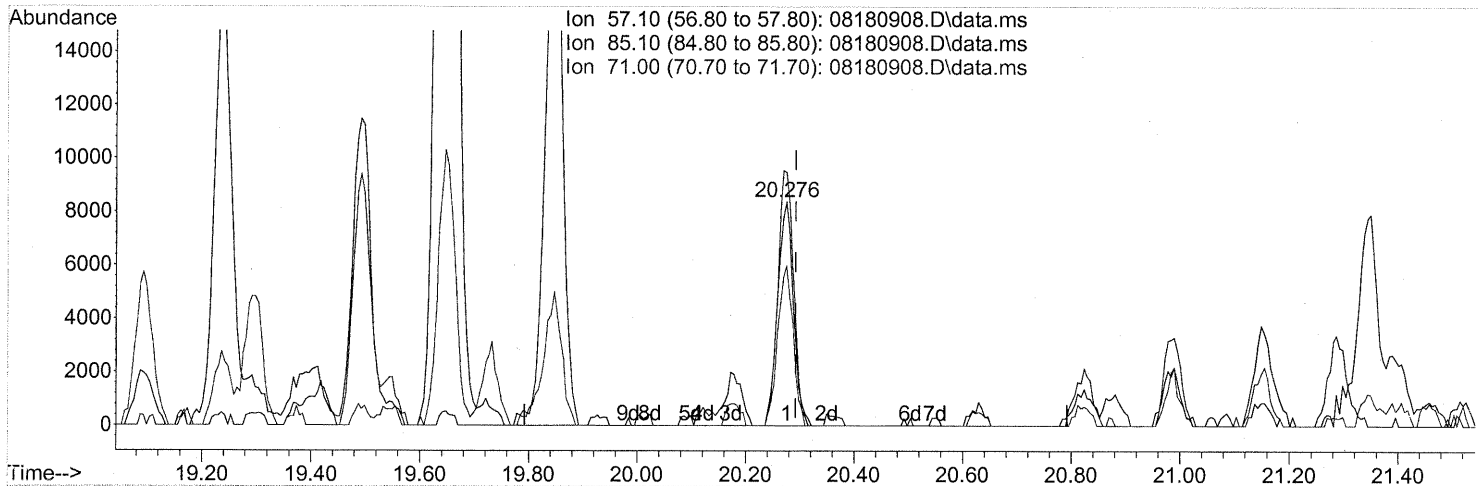
(62) n-Butyl Acetate (T)
 20.178min (-0.029) 2.26ng
 response 97173

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.94
73.00	14.80	17.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



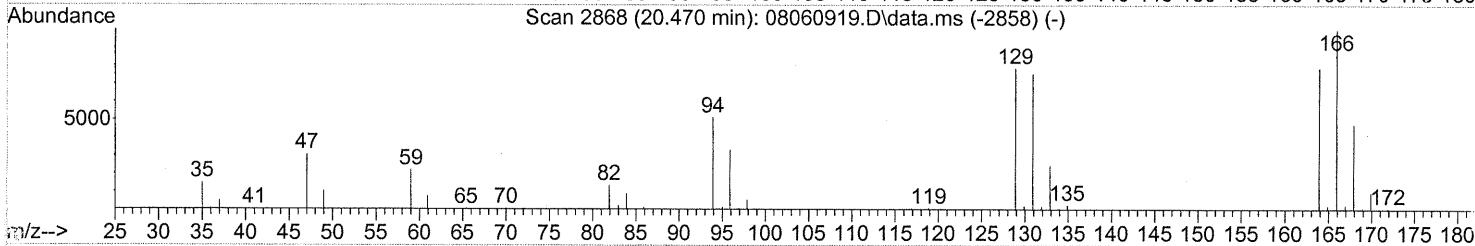
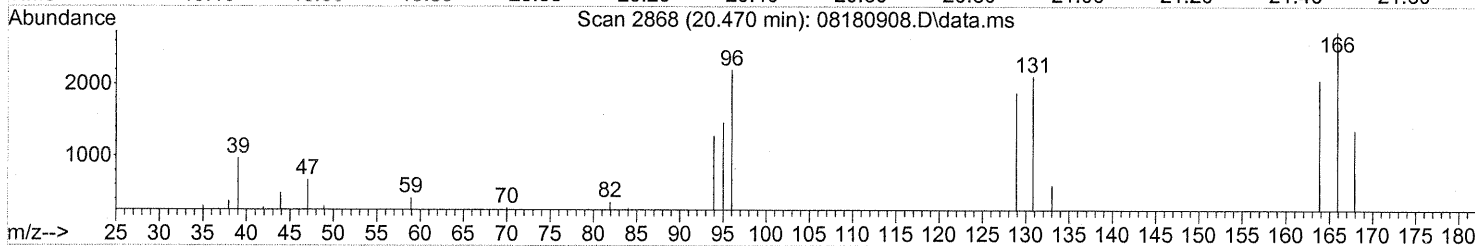
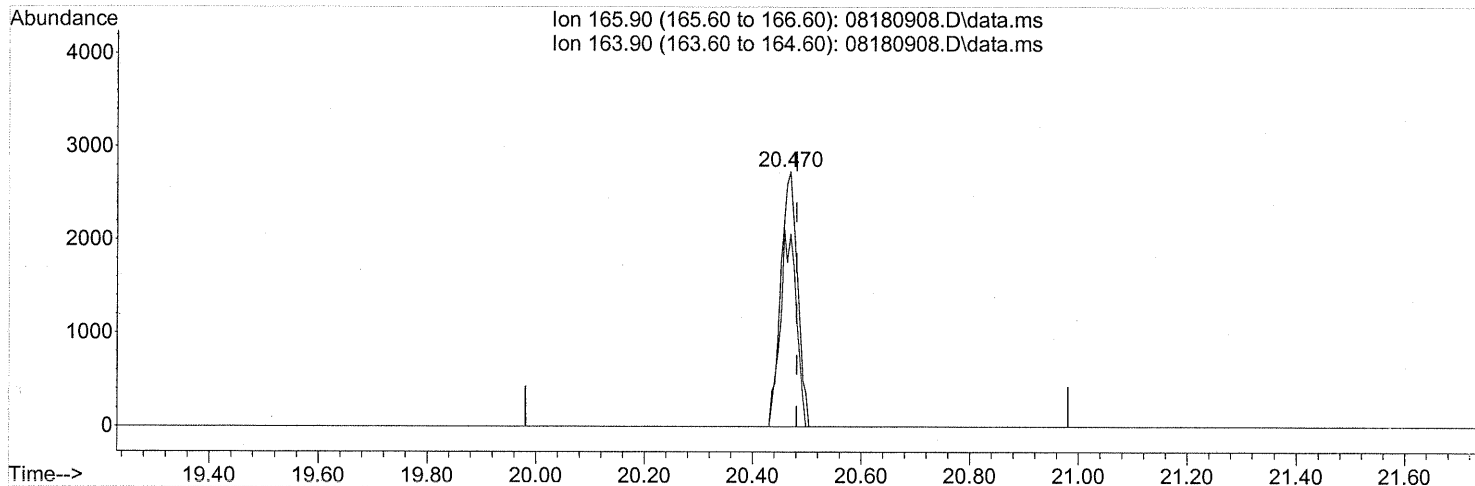
(63) n-Octane (T)
 20.276min (-0.017) 1.29ng
 response 17063

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	114.24
71.00	68.10	69.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180908.D\data.ms

(64) Tetrachloroethene (T)

20.470min (-0.012) 0.46ng

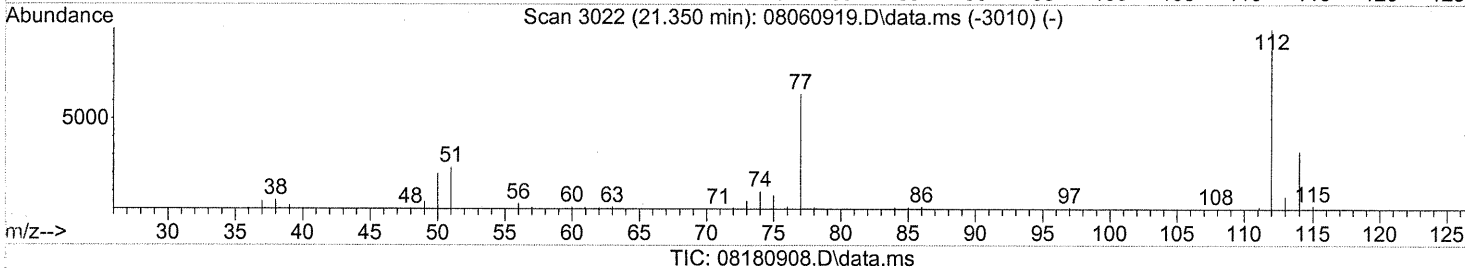
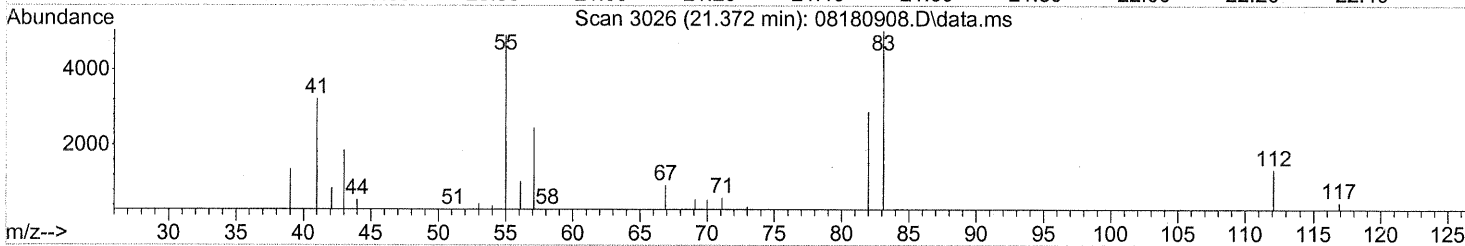
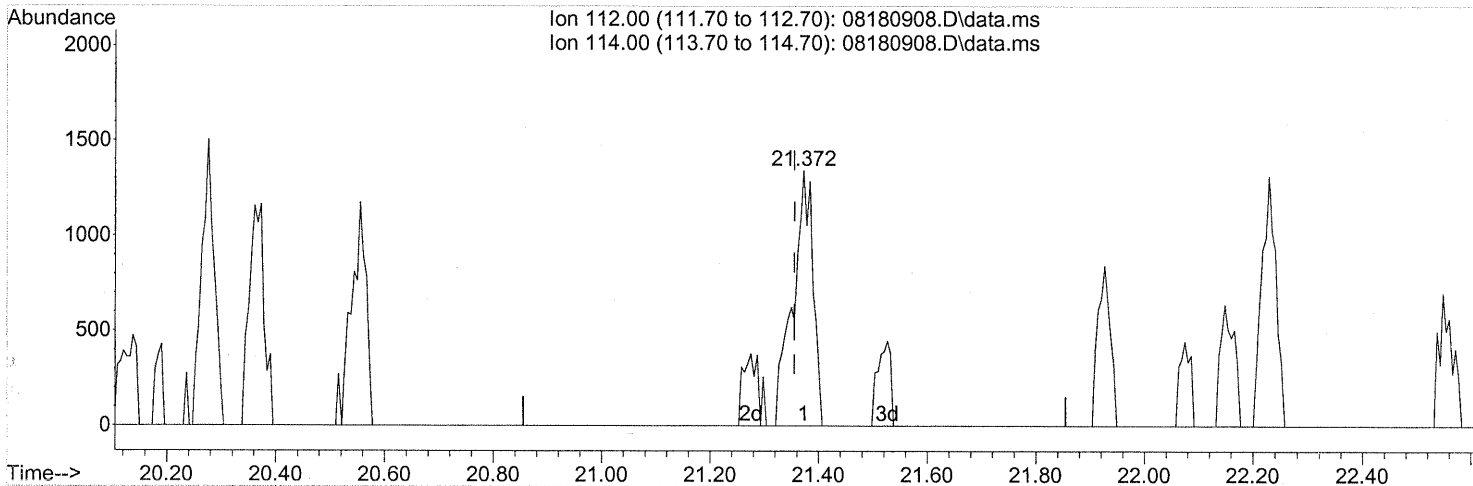
response 5830

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	73.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.372min (+0.017) 0.10ng
 response 3470

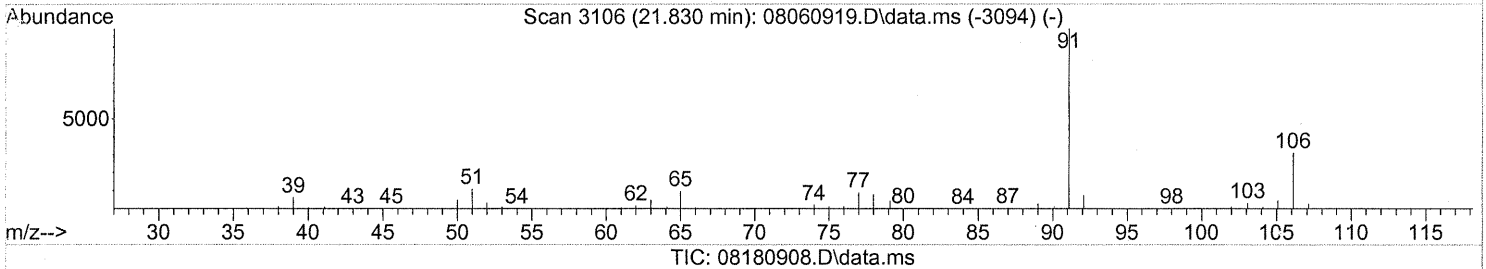
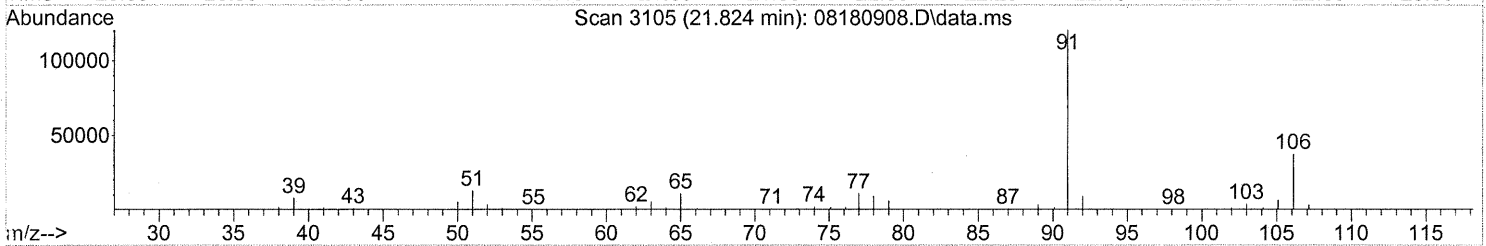
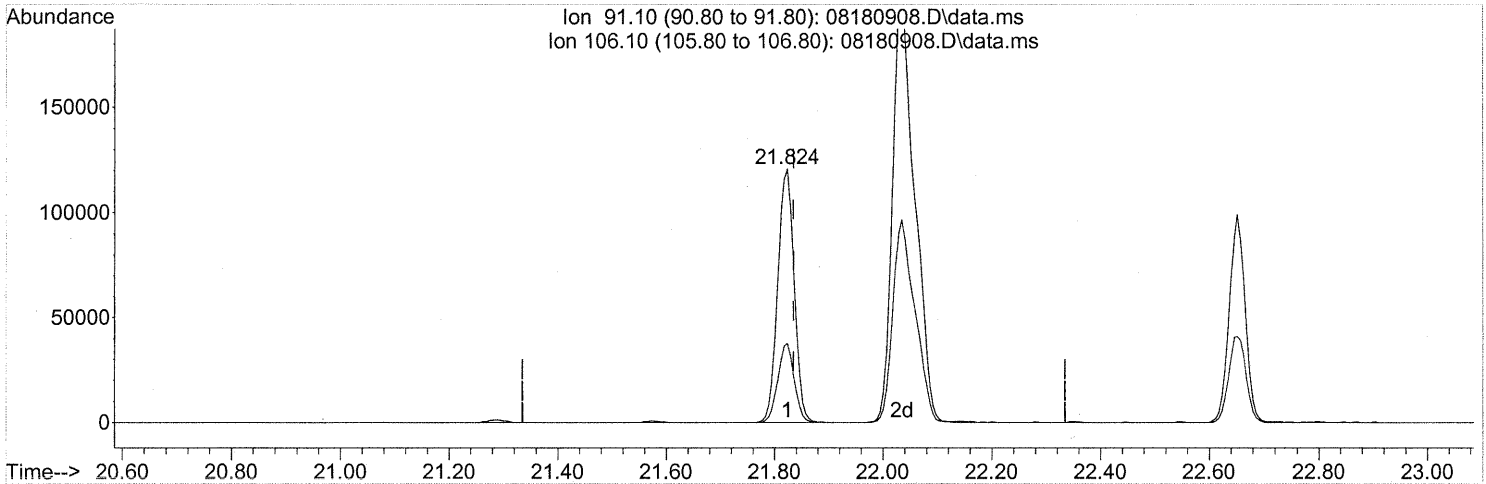
Ion	Exp%	Act%
112.00	100	100
114.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

7P
1081 8/22/09
Em 8/25/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
Data File : 08180908.D
Acq On : 18 Aug 2009 19:25
Operator : WA
Sample : P0902766-001 dup (1000mL)
Misc : Env. Health & Engineering 101160
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



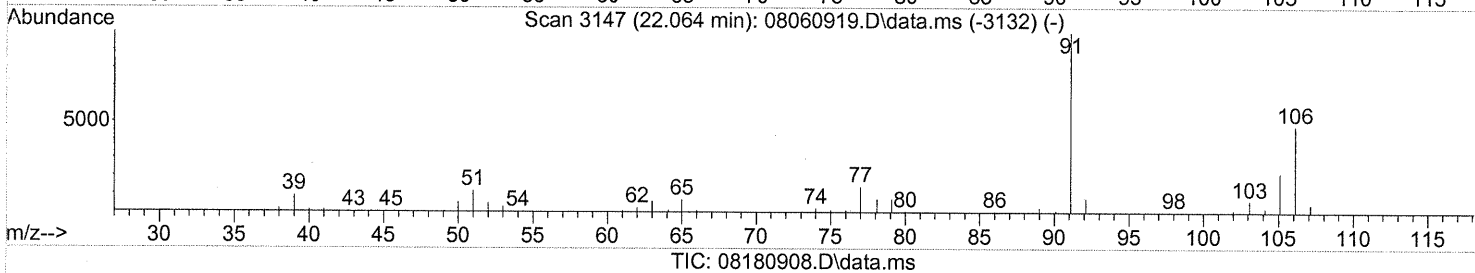
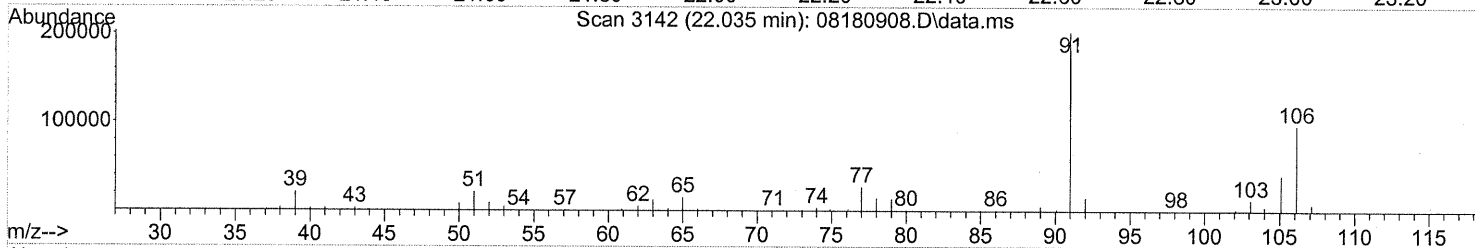
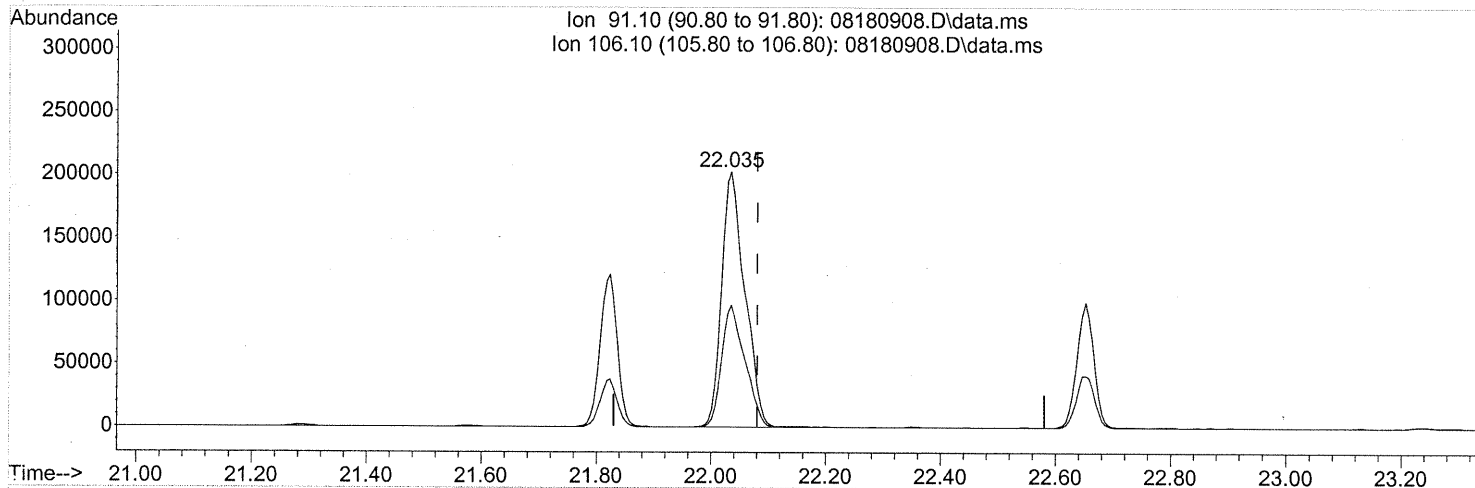
(66) Ethylbenzene (T)
21.824min (-0.012) 4.02ng
response 252120

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



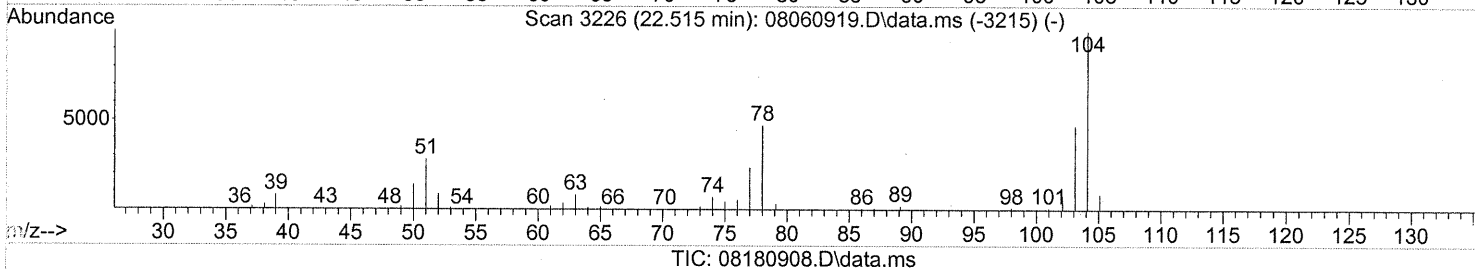
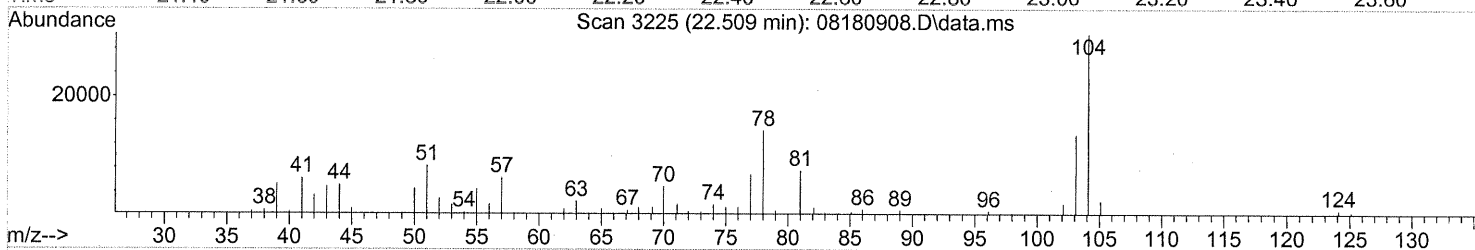
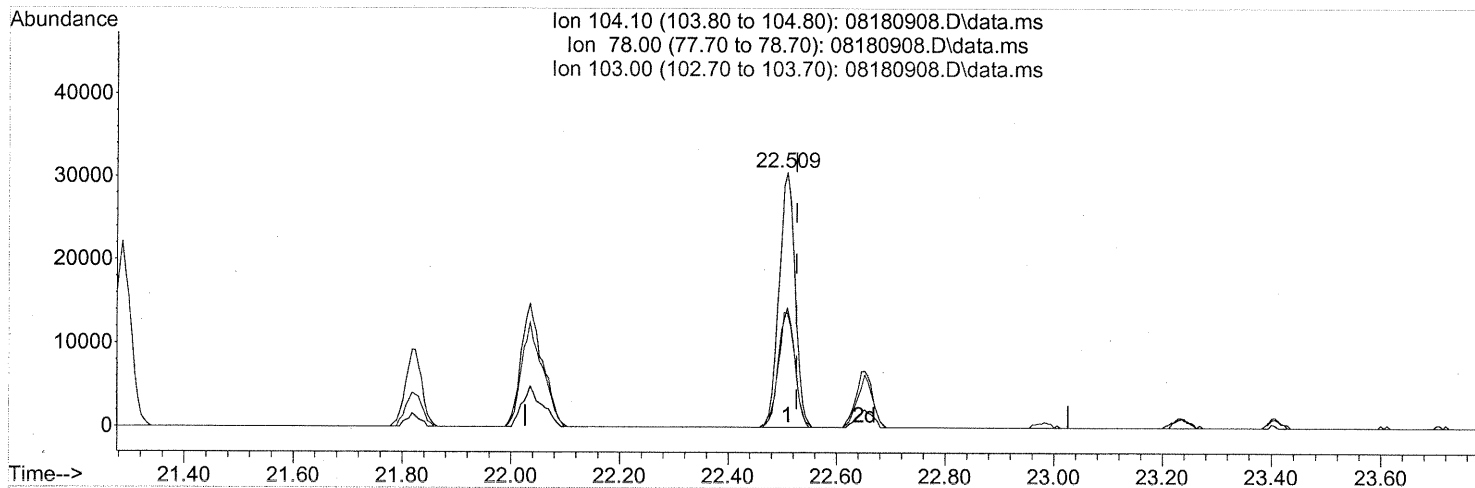
(67) m- & p-Xylenes (T)
 22.035min (-0.046) 11.19ng
 response 567579

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



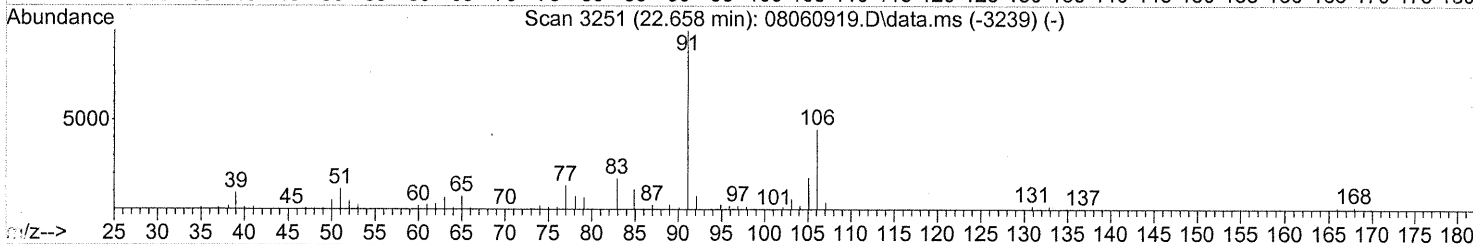
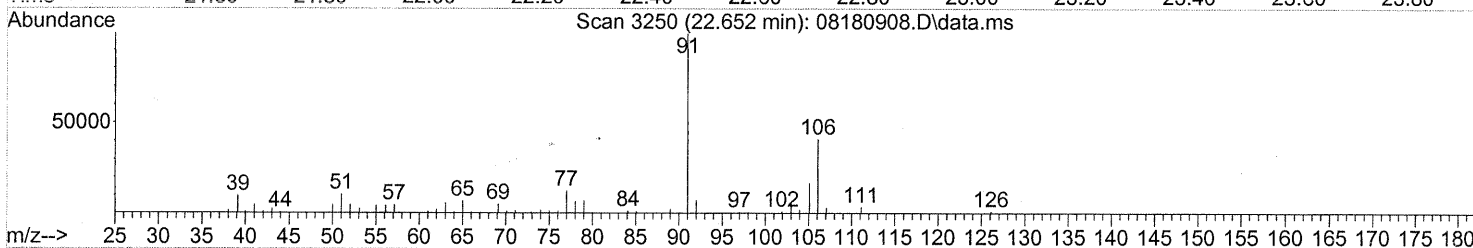
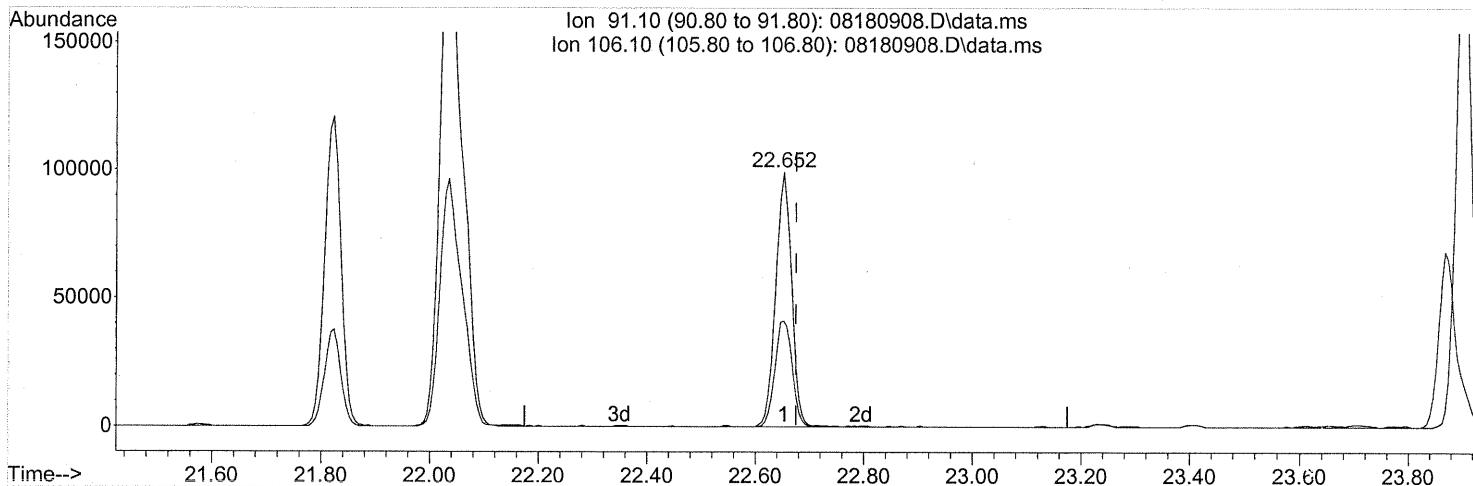
(69) Styrene (T)
 22.509min (-0.017) 1.71ng
 response 62837

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	47.62
103.00	46.20	46.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
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 Response via : Initial Calibration



TIC: 08180908.D\data.ms

(70) o-Xylene (T)

22.652min (-0.023) 3.97ng

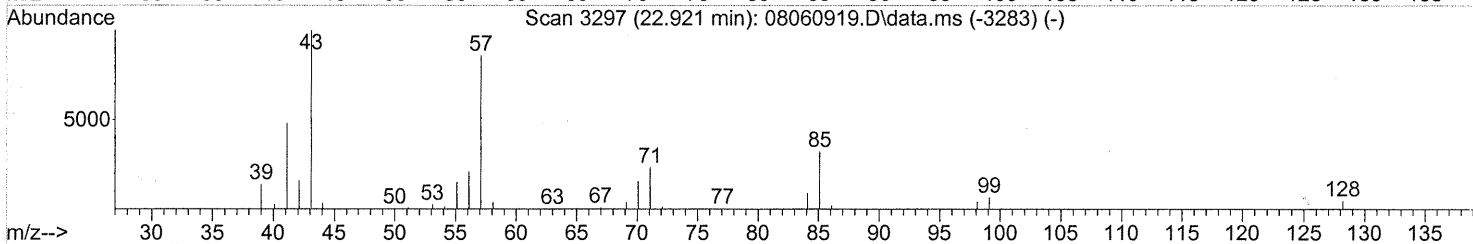
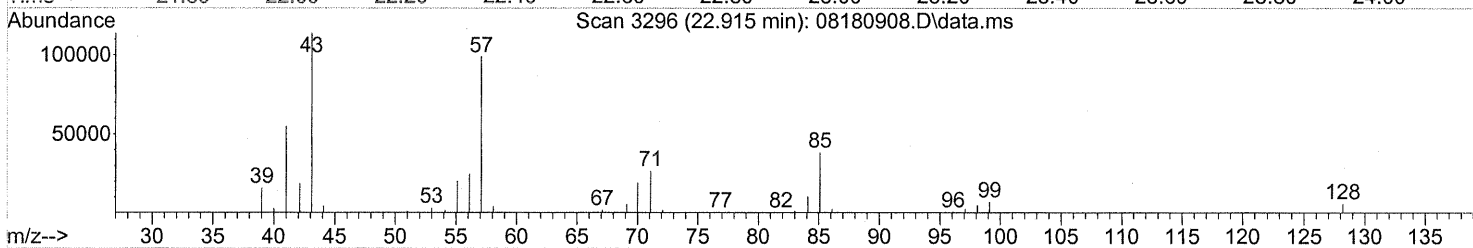
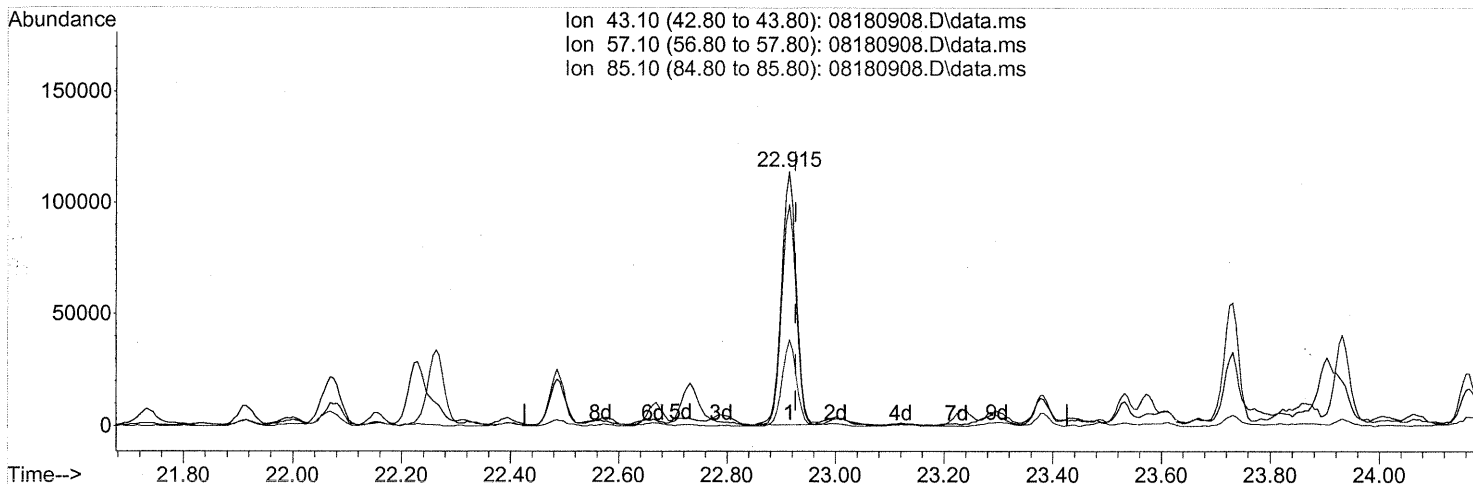
response 201738

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	44.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180908.D\data.ms

(71) n-Nonane (T)

22.915min (-0.012) 6.30ng

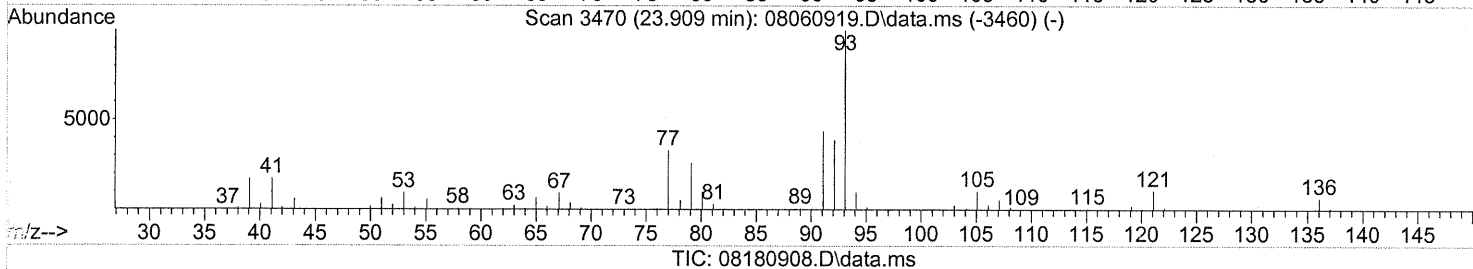
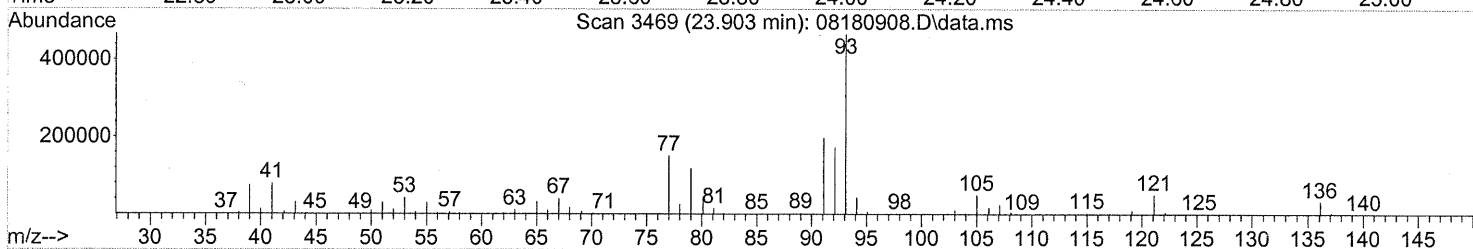
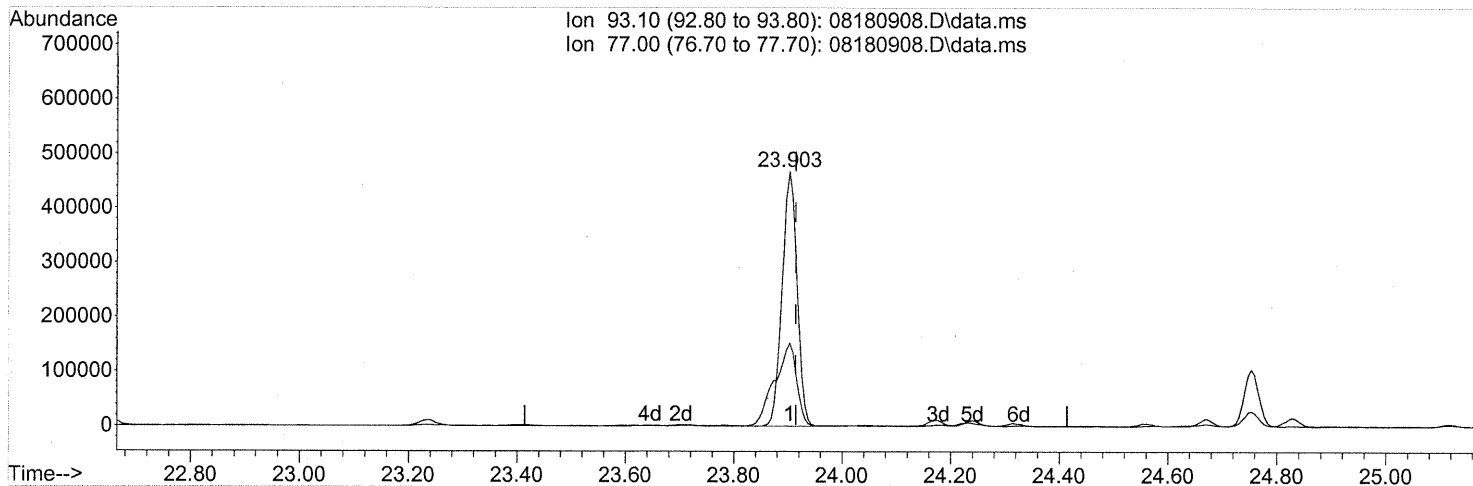
response 212687

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	87.06
85.10	30.40	33.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



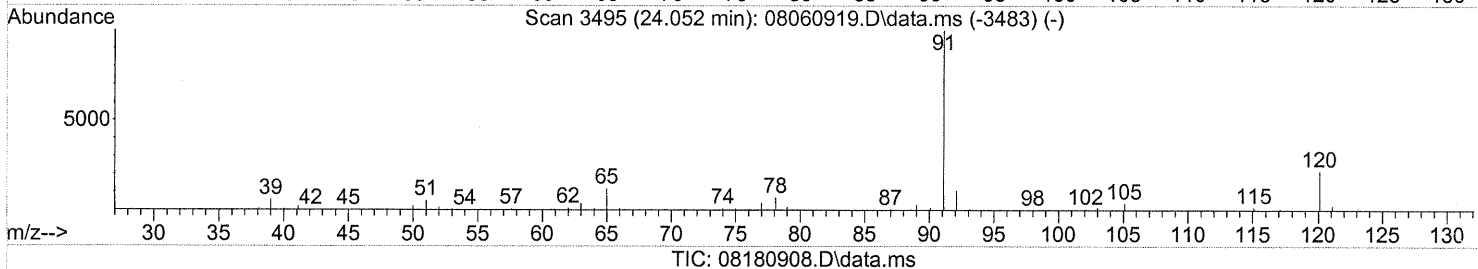
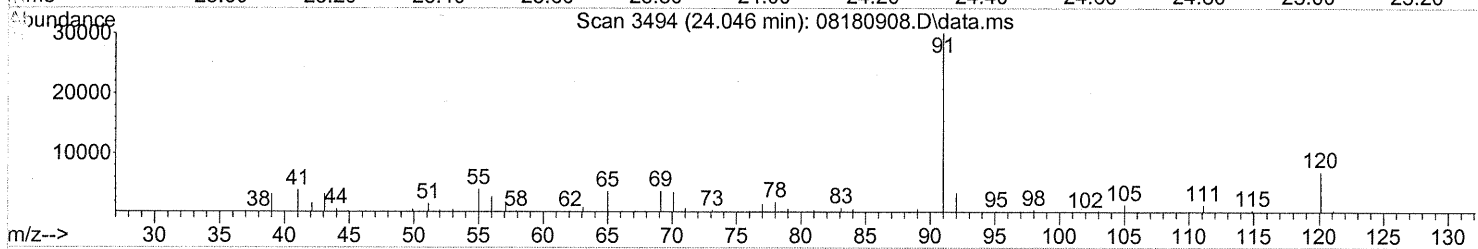
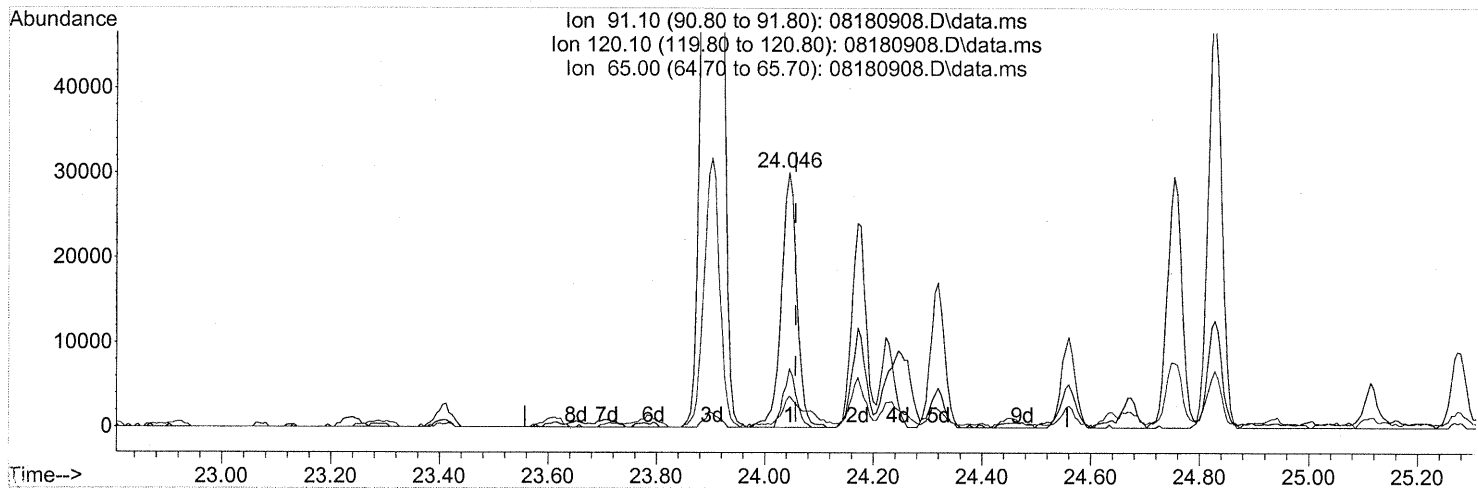
(75) alpha-Pinene (T)
 23.903min (-0.012) 27.04ng
 response 890235

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	47.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.046min (-0.012) 0.74ng

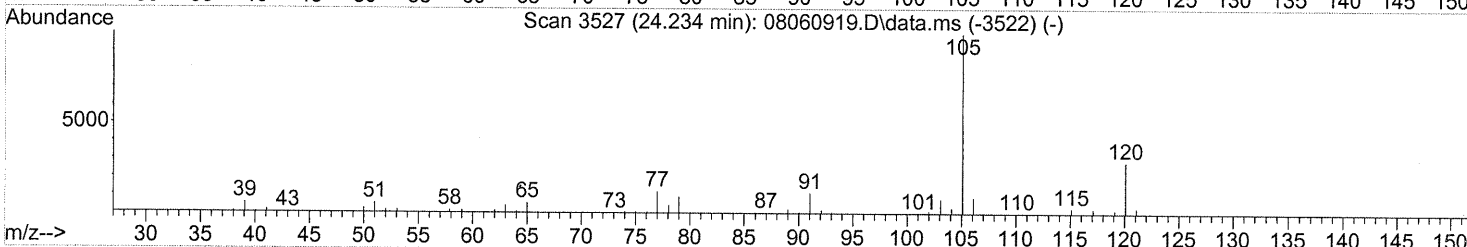
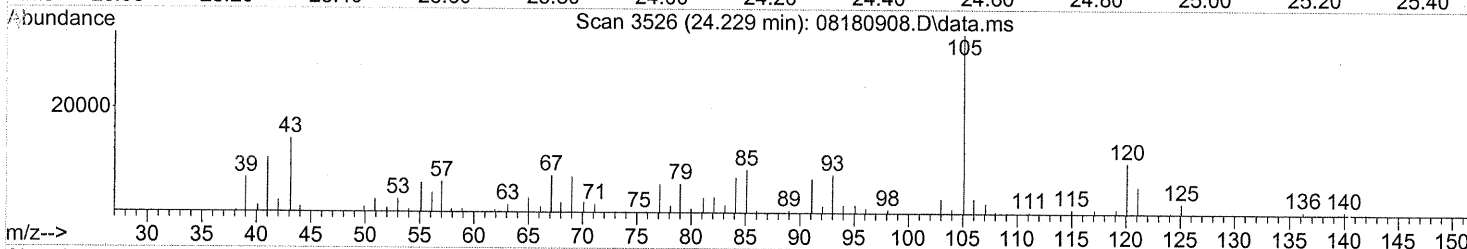
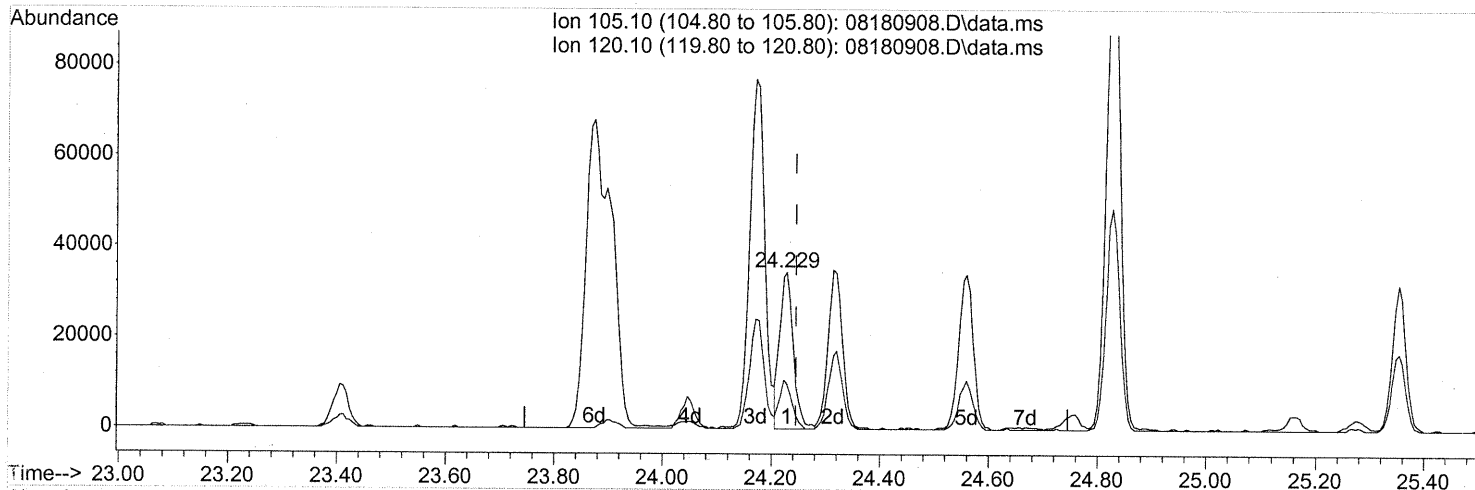
response 59962

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	18.87
65.00	12.00	17.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



TIC: 08180908.D\data.ms

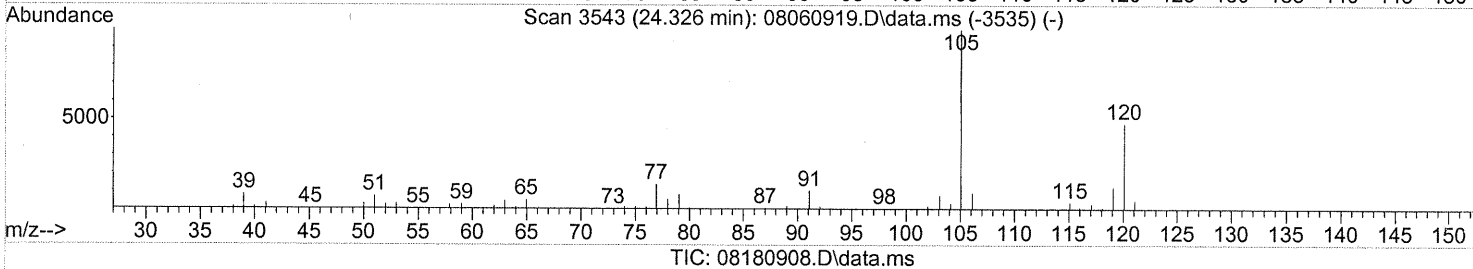
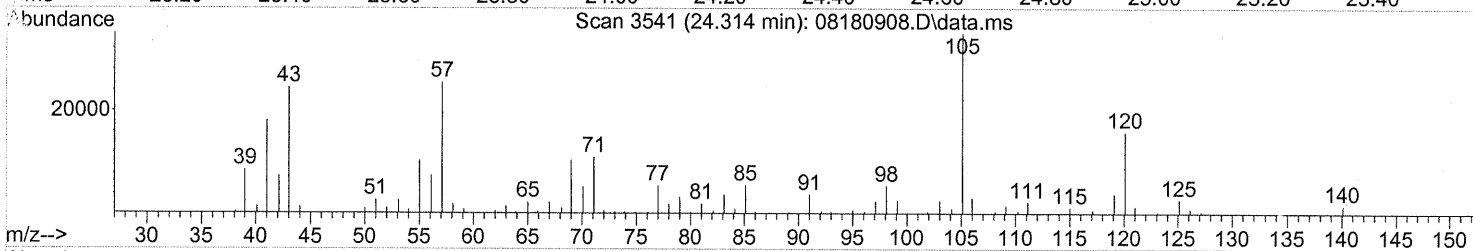
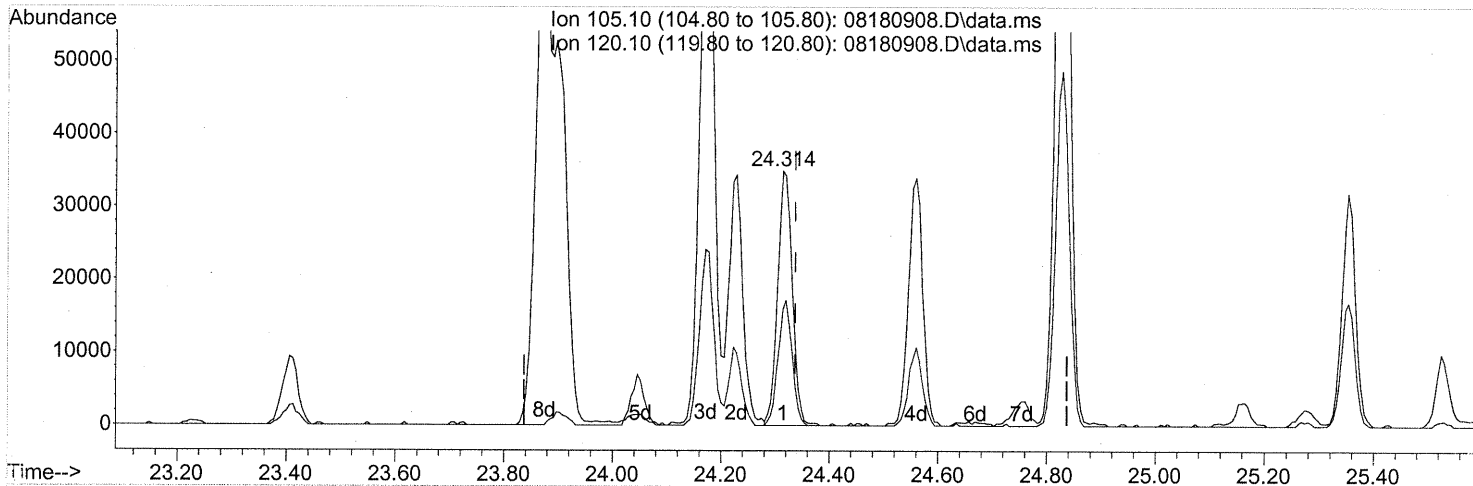
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 1.01ng
 response 59899

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	28.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

24.314min (-0.023) 1.30ng

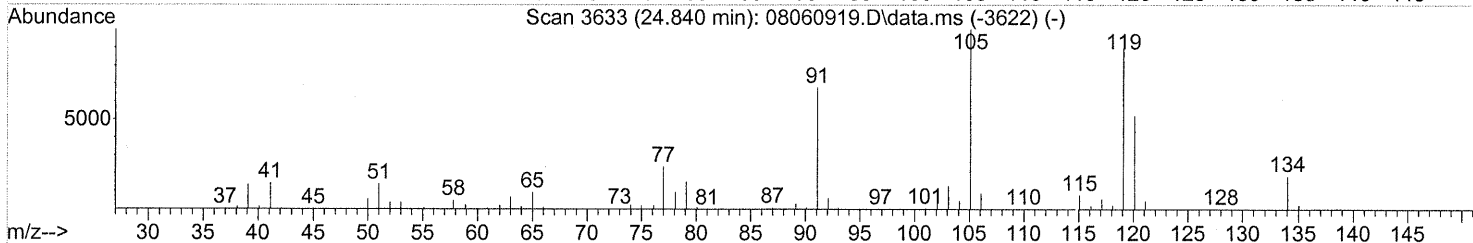
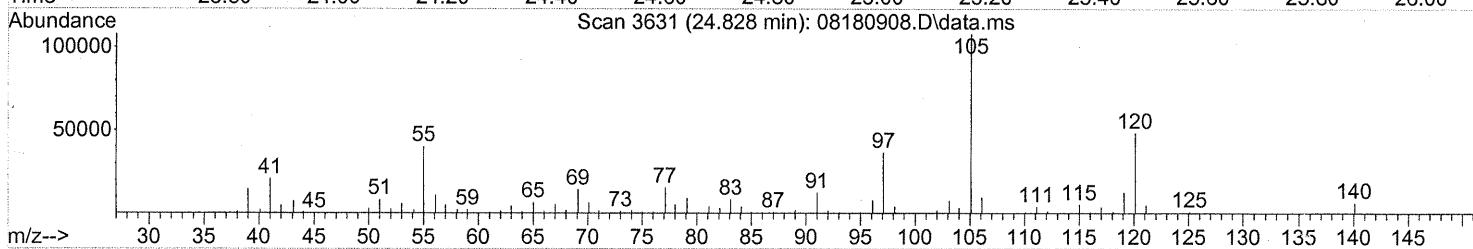
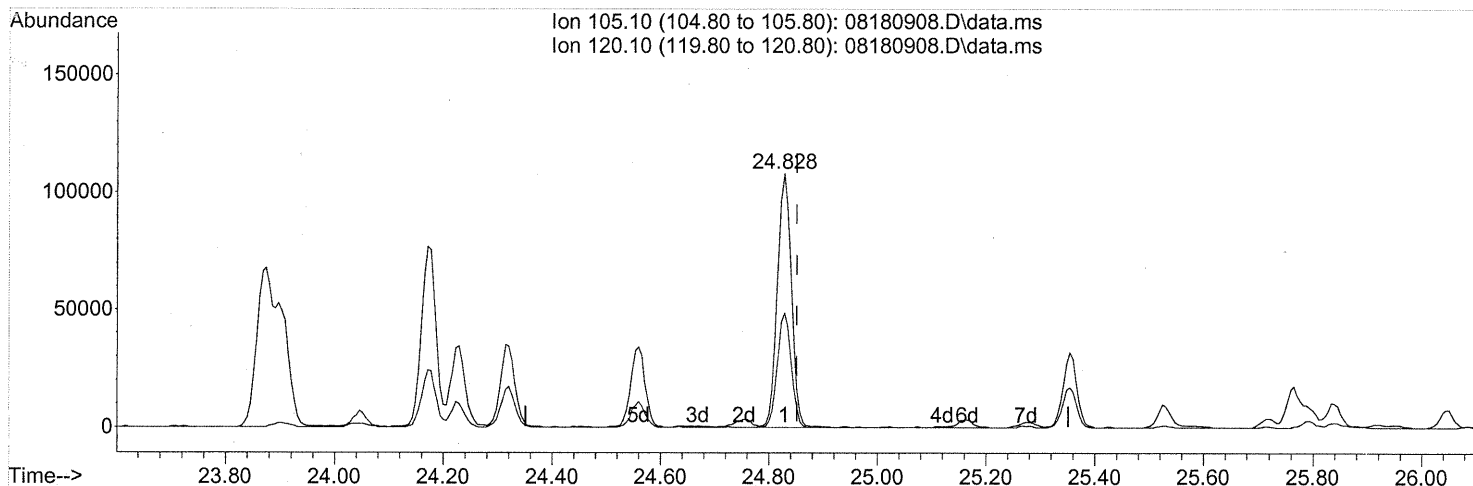
response 65043

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	46.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180908.D\data.ms

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

24.828min (-0.023) 3.77ng

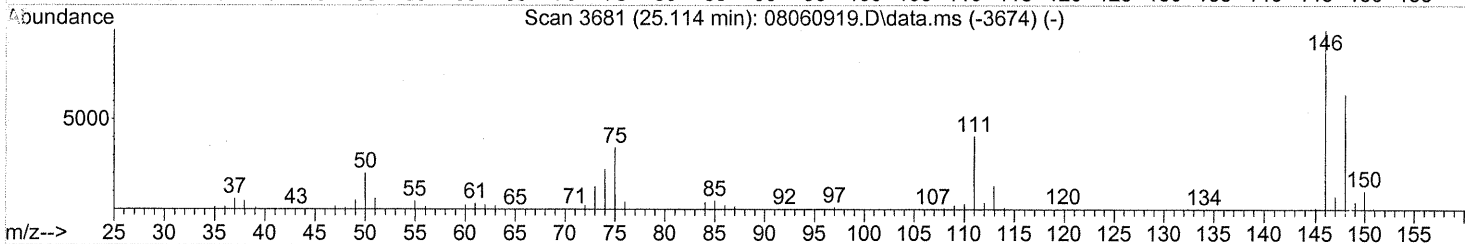
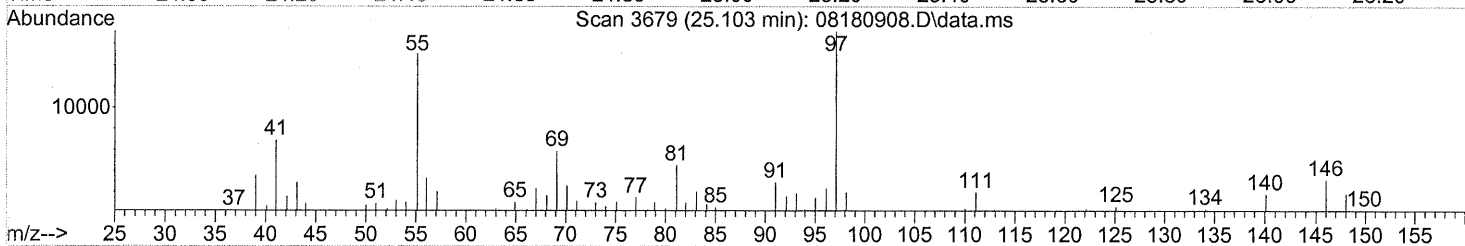
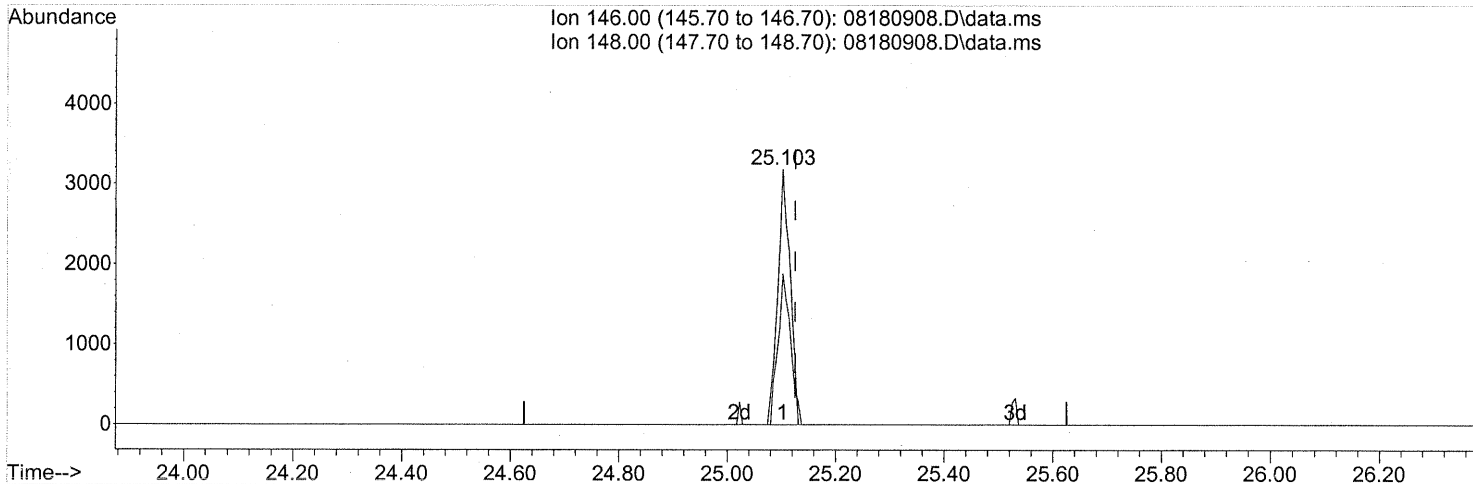
response 192992

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



TIC: 08180908.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.18ng

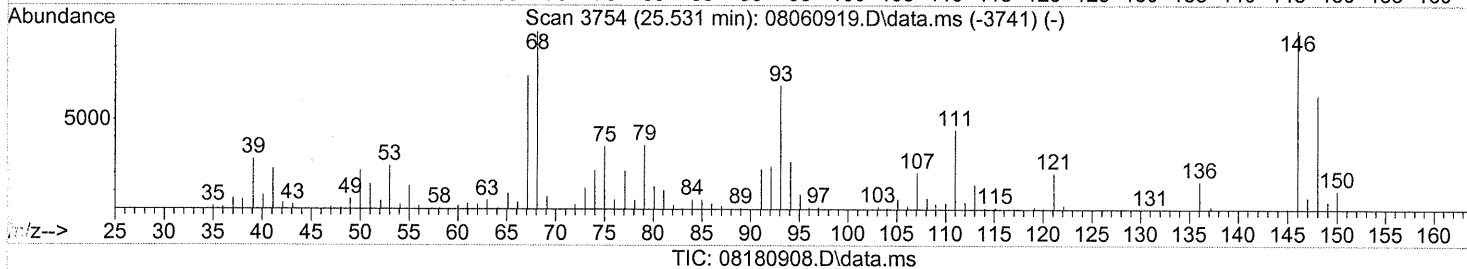
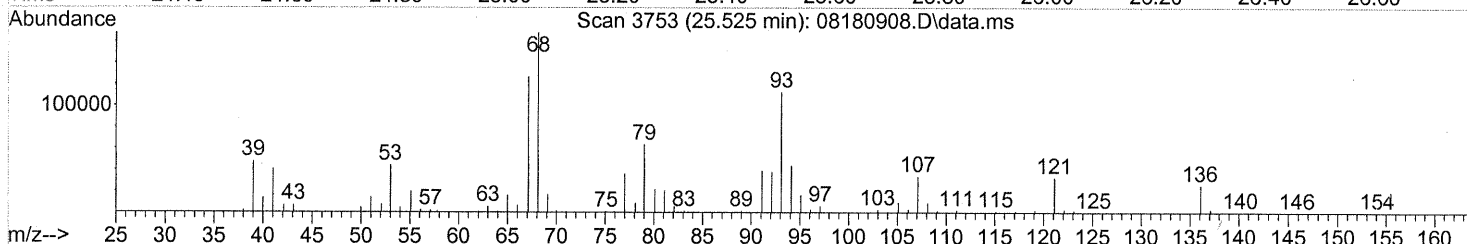
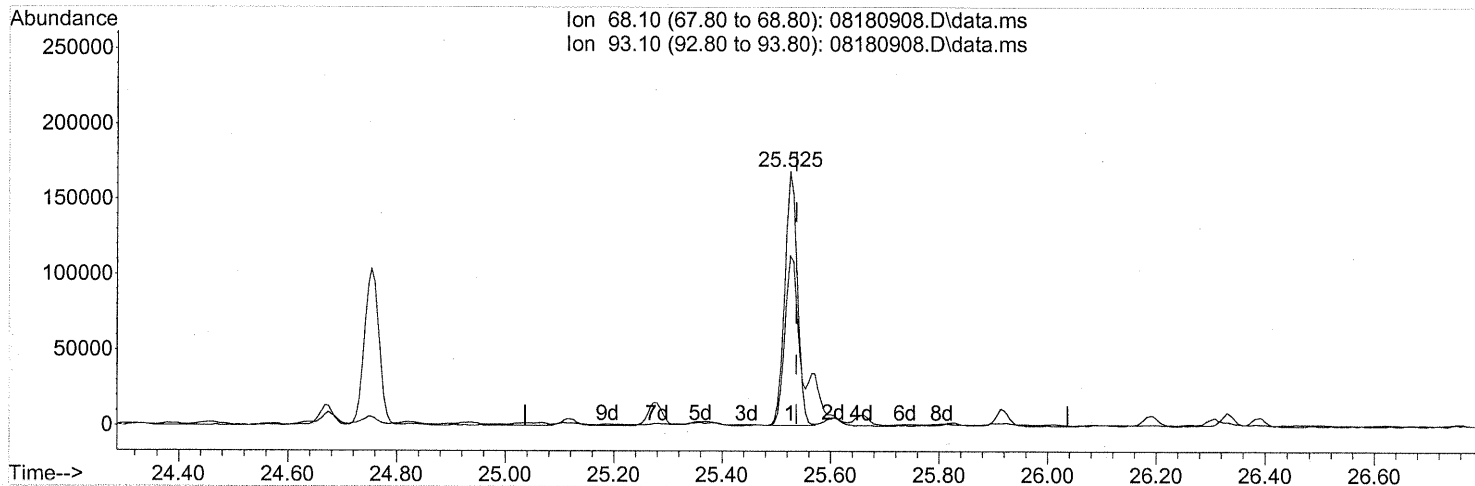
response 5027

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	60.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



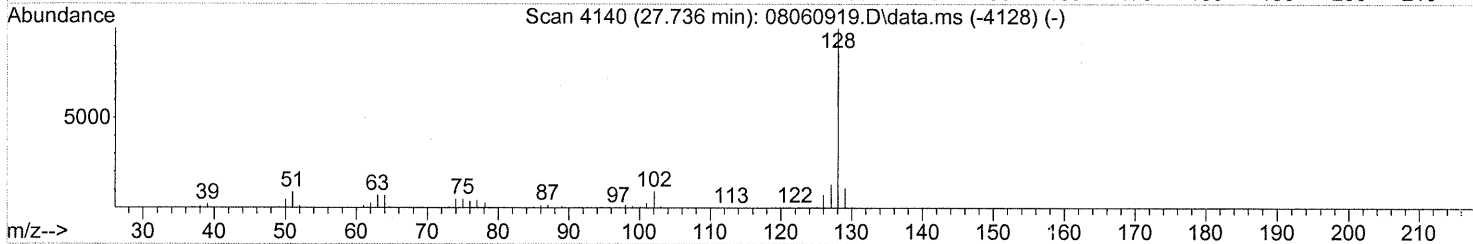
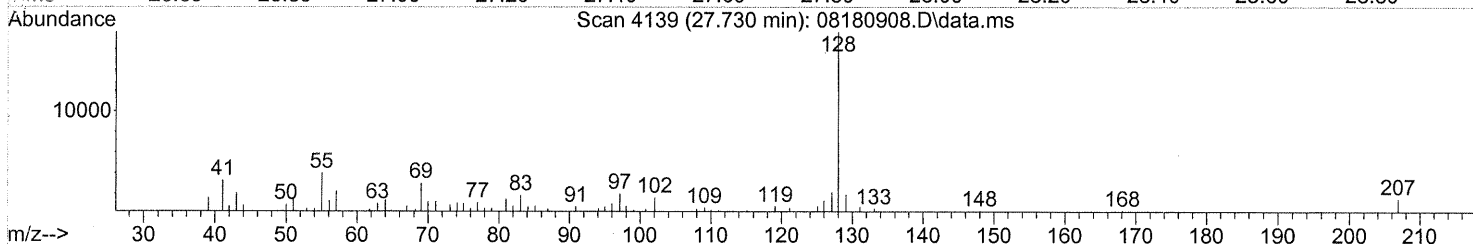
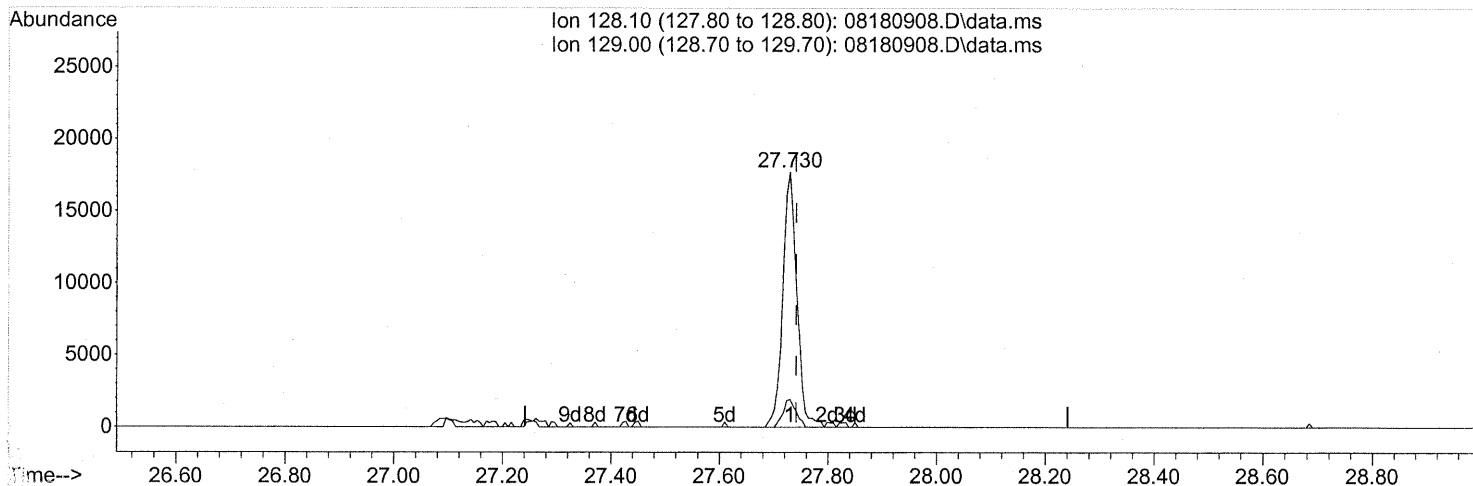
(91) d-Limonene (T)
 25.525min (-0.012) 12.49ng
 response 271691

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	96.17#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180908.D
 Acq On : 18 Aug 2009 19:25
 Operator : WA
 Sample : P0902766-001 dup (1000mL)
 Misc : Env. Health & Engineering 101160
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 18 20:08:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08180908.D\data.ms

(95) Naphthalene (T)
 27.730min (-0.012) 0.45ng
 response 31529

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.04
0.00	0.00	0.00
0.00	0.00	0.00

INITIAL CALIBRATION STANDARDS

Response Factor Report GCMS13

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

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethan										
2) T Propene	2.083	2.046	1.527	1.452	1.677	1.785	1.456	1.699	1.716	14.33
3) T Dichlorodifluorom	3.199	3.005	2.791	2.724	2.691	2.912	2.335	2.776	2.804	9.02
4) T Chloromethane	1.963	2.024	1.872	1.893	1.705	2.186	1.722	1.706	1.884	9.13
5) T 1,2-Dichloro-1,1,	1.177	1.316	1.196	1.051	1.039	1.184	0.985	1.166	1.139	9.39
6) T Vinyl Chloride	1.724	1.755	1.687	1.750	1.769	2.054	1.707	2.034	1.810	8.12
7) T 1,3-Butadiene	1.207	1.292	1.234	1.222	1.230	1.502	1.236	1.455	1.297	8.89
8) T Bromomethane	1.264	1.072	1.027	1.044	1.036	1.293	0.980	1.098	1.102	10.39
9) T Chloroethane	1.075	1.160	0.919	1.000	1.033	1.173	0.945	1.112	1.052	9.00
10) T Ethanol	1.345	1.232	1.028	1.032	0.995	1.126	0.909	1.031	1.087	12.94
11) T Acetonitrile	3.791	3.815	3.200	2.940	2.879	3.247	2.591	3.014	3.185	13.55
12) T Acrolein	0.735	0.915	0.767	0.793	0.825	0.940	0.758	0.890	0.828	9.42
13) T Acetone			1.167	1.074	1.016	1.100	0.854	0.946	1.026	11.02
14) T Trichlorofluorome	2.730	2.602	2.531	2.419	2.360	2.816	2.244	2.579	2.535	7.48
15) T 2-Propanol (Isopr	5.316	4.773	4.266	4.079	3.198	4.177	3.091	3.356	4.032	19.47
16) T Acrylonitrile	1.226	1.941	1.770	1.848	1.903	2.263	1.804	2.077	1.854	16.20
17) T 1,1-Dichloroethen	1.098	1.161	1.131	1.150	1.132	1.359	1.091	1.293	1.177	8.20
18) T 2-Methyl-2-Propan	4.615	4.098	3.719	3.708	3.575	4.214	3.280	1.423	3.579	26.97
19) T Methylene Chlorid	1.722	1.622	1.254	1.259	1.232	1.428	1.151	1.356	1.378	14.59
20) T 3-Chloro-1-propen	2.983	2.989	2.818	2.826	2.401	2.664	2.134	2.435	2.656	11.56
21) T Trichlorotrifluor	0.856	0.905	0.889	0.896	0.873	1.064	0.870	1.021	0.922	8.37
22) T Carbon Disulfide	5.485	5.227	4.603	4.594	4.557	5.329	4.218	4.851	4.858	9.16
23) T trans-1,2-Dichlor	1.848	2.189	1.929	2.047	2.041	2.440	1.938	2.230	2.083	9.32
24) T 1,1-Dichloroethan	2.670	2.757	2.264	2.426	2.360	2.850	2.271	2.607	2.526	8.94
25) T Methyl tert-Butyl	4.114	4.046	3.646	3.595	3.643	4.360	3.538	4.115	3.882	8.02
26) T Vinyl Acetate	0.230	0.243	0.237	0.239	0.177	0.222	0.165	0.156	0.209	17.35
27) T 2-Butanone (MEK)	0.989	1.007	0.915	0.892	0.915	1.072	0.855	0.766	0.926	10.32
28) T cis-1,2-Dichloroe	1.913	1.980	1.790	1.854	1.890	2.244	1.789	2.049	1.939	7.84
29) T Diisopropyl Ether	1.013	1.376	1.212	1.246	1.214	1.425	1.129	1.303	1.240	10.65

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(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:25 2009

for 8/6/09

Response Factor Report GCMS13

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

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
30) T Ethyl Acetate	0.395	0.513	0.492	0.479	0.491	0.561	0.439	0.491	0.483	10.18
31) T n-Hexane	2.766	2.862	2.319	2.390	2.266	2.624	2.095	2.429	2.469	10.60
32) T Chloroform	2.301	2.230	2.080	2.148	2.129	2.436	1.910	2.154	2.174	7.16
33) S 1,2-Dichloroethan	2.180	2.200	2.208	2.191	2.172	2.156	2.144	2.133	2.173	1.24
34) T Tetrahydrofuran (1.393	1.027	0.901	0.860	1.025	0.804	0.903	0.903	0.988	19.90
35) T Ethyl tert-Butyl	1.747	1.639	1.589	1.578	1.501	1.752	1.405	1.621	1.604	7.26
36) T 1,2-Dichloroethan	2.106	2.083	1.937	1.868	1.850	2.232	1.788	2.028	1.986	7.62
37) IR 1,4-Difluorobenze	-----ISTD-----									
38) T 1,1,1-Trichloroet	0.493	0.438	0.396	0.402	0.392	0.469	0.380	0.422	0.424	9.47
39) T Isopropyl Acetate	0.199	0.203	0.176	0.176	0.176	0.207	0.163	0.183	0.185	8.43
40) T 1-Butanol	0.444	0.385	0.301	0.293	0.285	0.330	0.265	0.291	0.324	18.74
41) T Benzene	1.390	1.294	1.057	1.020	0.989	1.140	0.898	1.005	1.099	15.15
42) T Carbon Tetrachlor	0.346	0.351	0.327	0.329	0.336	0.408	0.329	0.377	0.350	8.13
43) T Cyclohexane	0.465	0.420	0.379	0.382	0.383	0.440	0.351	0.401	0.403	9.21
44) T tert-Amyl Methyl	0.924	0.905	0.814	0.799	0.775	0.901	0.707	0.778	0.825	9.32
45) T 1,2-Dichloropropa	0.283	0.286	0.260	0.268	0.261	0.313	0.251	0.286	0.276	7.20
46) T Bromodichlorometh	0.375	0.388	0.340	0.344	0.339	0.408	0.331	0.371	0.362	7.63
47) T Trichloroethene	0.255	0.248	0.231	0.233	0.233	0.283	0.230	0.270	0.248	8.13
48) T 1,4-Dioxane	0.211	0.210	0.217	0.202	0.205	0.235	0.190	0.211	0.210	6.08
49) T 2,2,4-Trimethylpe	1.459	1.421	1.232	1.243	1.233	1.428	1.112	1.229	1.295	9.62
50) T Methyl Methacryla	0.084	0.106	0.097	0.096	0.098	0.118	0.098	0.112	0.101	10.64
51) T n-Heptane	0.330	0.309	0.283	0.282	0.275	0.328	0.259	0.294	0.295	8.56
52) T cis-1,3-Dichlorop	0.492	0.469	0.422	0.433	0.431	0.517	0.421	0.476	0.458	7.87
53) T 4-Methyl-2-pentan	0.262	0.275	0.257	0.255	0.252	0.302	0.239	0.271	0.264	7.19
54) T trans-1,3-Dichlor	0.492	0.436	0.391	0.413	0.408	0.489	0.399	0.452	0.435	9.06
55) T 1,1,2-Trichloroet	0.248	0.251	0.226	0.234	0.227	0.270	0.220	0.254	0.241	7.12
56) IR Chlorobenzene-d5	-----ISTD-----									
57) S Toluene-d8 (SS2)	2.196	2.196	2.181	2.184	2.176	2.177	2.188	2.177	2.184	0.37

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(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:25 2009

PA 8/6/09

Response Factor Report GCMS13

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

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
58) T Toluene	2.598	2.282	2.011	2.028	1.956	2.323	1.860	2.115	2.147	11.21
59) T 2-Hexanone	1.631	1.475	1.347	1.365	1.367	1.586	1.255	1.396	1.428	8.91
60) T Dibromochlorometh	0.488	0.496	0.473	0.476	0.482	0.597	0.487	0.566	0.508	9.17
61) T 1,2-Dibromoethane	0.567	0.548	0.480	0.512	0.510	0.617	0.496	0.577	0.539	8.68
62) T n-Butyl Acetate	1.970	1.781	1.544	1.562	1.554	1.839	1.464	1.748	1.683	10.51
63) T n-Octane	0.560	0.571	0.505	0.499	0.491	0.570	0.450	0.506	0.519	8.42
64) T Tetrachloroethene	0.482	0.483	0.476	0.481	0.458	0.568	0.469	0.556	0.497	8.29
65) T Chlorobenzene	1.590	1.363	1.215	1.270	1.217	1.454	1.169	1.348	1.328	10.63
66) T Ethylbenzene	2.854	2.575	2.315	2.330	2.298	2.695	2.145	2.421	2.454	9.60
67) T m- & p-Xylenes	2.378	2.159	1.844	1.903	1.829	2.151	1.706	1.913	1.985	11.21
68) T Bromoform	0.336	0.384	0.393	0.381	0.411	0.521	0.432	0.516	0.422	15.56
69) T Styrene	1.591	1.461	1.301	1.326	1.336	1.629	1.314	1.522	1.435	9.31
70) T o-Xylene	2.315	2.130	1.894	1.892	1.861	2.164	1.722	1.945	1.990	9.78
71) T n-Nonane	1.652	1.463	1.265	1.289	1.228	1.399	1.084	1.200	1.323	13.39
72) T 1,1,2,2-Tetrachlo	0.950	0.931	0.839	0.860	0.839	0.977	0.776	0.894	0.883	7.62
73) S Bromofluorobenzen	0.571	0.566	0.563	0.563	0.577	0.579	0.594	0.595	0.576	2.23
74) T Cumene	3.046	2.701	2.336	2.364	2.307	2.723	2.181	2.456	2.514	11.39
75) T alpha-Pinene	1.405	1.389	1.184	1.219	1.220	1.431	1.152	1.311	1.289	8.49
76) T n-Propylbenzene	3.730	3.286	2.971	3.088	2.984	3.473	2.742	3.012	3.161	10.05
77) T 3-Ethyltoluene	2.856	2.585	2.264	2.204	2.239	2.593	2.105	2.377	2.403	10.55
78) T 4-Ethyltoluene	2.821	2.428	2.122	2.235	2.150	2.576	2.035	2.260	2.328	11.34
79) T 1,3,5-Trimethylbe	2.371	1.981	1.833	1.859	1.835	2.153	1.724	1.953	1.964	10.62
80) T alpha-Methylstyrene	1.173	1.018	0.919	0.971	1.006	1.205	0.983	1.135	1.051	9.98
81) T 2-Ethyltoluene	2.866	2.524	2.246	2.299	2.267	2.666	2.132	2.386	2.423	10.14
82) T 1,2,4-Trimethylbe	2.204	2.160	1.885	1.969	1.896	2.217	1.758	1.932	2.003	8.49
83) T n-Decane	1.505	1.419	1.273	1.281	1.242	1.408	1.089	1.199	1.302	10.36
84) T Benzyl Chloride	1.924	1.912	1.669	1.773	1.834	2.197	1.749	1.959	1.877	8.66
85) T 1,3-Dichlorobenze	1.163	0.993	0.903	0.959	0.940	1.131	0.925	1.094	1.013	9.96
86) T 1,4-Dichlorobenze	1.251	1.103	0.995	0.996	0.980	1.192	0.979	1.149	1.081	9.99
87) T sec-Butylbenzene	3.139	2.866	2.554	2.575	2.546	2.985	2.364	2.613	2.705	9.71

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(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:26 2009

RS 8/16/09

Response Factor Report GCMS13

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

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
88) T 4-Isopropyltoluen	2.658	2.459	2.338	2.329	2.319	2.712	2.154	2.330	2.412	7.80
89) T 1,2,3-Trimethylbe	2.247	2.205	1.983	1.961	1.936	2.249	1.789	1.951	2.040	8.39
90) T 1,2-Dichlorobenze	1.053	0.935	0.895	0.923	0.908	1.091	0.885	0.997	0.961	8.06
91) T d-Limonene	0.947	0.884	0.819	0.808	0.816	0.953	0.756	0.831	0.852	8.22
92) T 1,2-Dibromo-3-Chl	0.255	0.322	0.281	0.316	0.334	0.407	0.333	0.395	0.330	15.52
93) T n-Undecane	1.637	1.515	1.310	1.387	1.321	1.489	1.157	1.266	1.385	11.15
94) T 1,2,4-Trichlorobe	0.633	0.617	0.569	0.628	0.635	0.782	0.647	0.775	0.661	11.53
95) T Naphthalene	3.212	2.782	2.370	2.515	2.600	3.038	2.466	2.774	2.720	10.71
96) T n-Dodecane	2.008	1.787	1.580	1.604	1.487	1.664	1.312	1.433	1.609	13.47
97) T Hexachlorobutadie	0.508	0.450	0.382	0.370	0.364	0.452	0.378	0.458	0.420	12.69
98) T Cyclohexanone	1.058	0.930	0.839	0.840	0.827	0.975	0.777	0.870	0.889	10.33
99) T tert-Butylbenzene	2.338	1.994	1.824	1.861	1.804	2.116	1.695	1.873	1.938	10.59
100) T n-Butylbenzene	2.495	2.246	2.121	2.16	2.160	2.504	1.975	2.174	2.231	8.20

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: **S20-07240912**

20ng/L Std. ID: **S20-07310903**

200ng/L Std. ID: **S20-07310901**

Dilution Factors:

5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L): ICAL Points:	ICAL Concentrations (Primary Source)									
		200ng/L	20ng/L	4ng/L		4	4	20	20	20	200	200	200		
		0.025	0.05	0.025		0.050	0.25	0.125	0.25	0.50	0.1ng	0.2ng	0.5ng	1ng	5ng
Propene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Dichlorodifluoromethane	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Chloromethane	1.00	200	20.0	4.00		0.100	0.200	0.500	1.00	5.00	25.0	50.0	100		
Freon-114	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
Vinyl Chloride	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101		
1,3-Butadiene	1.20	240	24.0	4.80		0.120	0.240	0.600	1.20	6.00	30.0	60.0	120		
Bromomethane	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102		
Chloroethane	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101		
Ethanol	5.20	1040	104	20.8		0.520	1.040	2.60	5.20	26.0	130	260	520		
Acetonitrile	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Acrolein	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Acetone	5.50	1100	110	22.0		0.550	1.100	2.75	5.50	27.5	138	275	550		
Trichlorofluoromethane	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Isopropanol	1.89	378	37.8	7.56		0.189	0.378	0.945	1.89	9.45	47.3	94.5	189		
Acrylonitrile	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
1,1-Dichloroethene	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
tert-Butanol	2.02	404	40.4	8.08		0.202	0.404	1.01	2.02	10.1	50.5	101	202		
Methylene Chloride	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Allyl Chloride	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Trichlorotrifluoroethane	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
Carbon Disulfide	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
trans-1,2-Dichloroethene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
1,1-Dichloroethane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
Methyl tert-Butyl Ether	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
Vinyl Acetate	5.02	1004	100	20.1		0.502	1.004	2.51	5.02	25.1	126	251	502		
2-Butanone	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
cis-1,2-Dichloroethene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
Diisopropyl Ether	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Ethyl Acetate	2.13	426	42.6	8.52		0.213	0.426	1.07	2.13	10.7	53.3	107	213		
n-Hexane	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
Chloroform	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Tetrahydrofuran	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
Ethyl tert-Butyl Ether	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103		
1,2-Dichloroethane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
1,1,1-Trichloroethane	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Isopropyl Acetate	2.09	418	41.8	8.36		0.209	0.418	1.05	2.09	10.5	52.3	105	209		
1-Butanol	2.07	414	41.4	8.28		0.207	0.414	1.04	2.07	10.4	51.8	104	207		
Benzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
Carbon Tetrachloride	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Cyclohexane	2.15	430	43.0	8.60		0.215	0.430	1.08	2.15	10.8	53.8	108	215		
tert-Amyl Methyl Ether	1.04	208	20.8	4.16		0.104	0.208	0.520	1.04	5.20	26.0	52.0	104		
1,2-Dichloropropane	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Bromodichloromethane	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Trichloroethene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
1,4-Dioxane	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Isooctane	1.04	208	20.8	4.16		0.104	0.208	0.520	1.04	5.20	26.0	52.0	104		
Methyl Methacrylate	2.13	426	42.6	8.52		0.213	0.426	1.07	2.13	10.7	53.3	107	213		
n-Heptane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
cis-1,3-Dichloropropene	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0		
4-Methyl-2-pentanone	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
trans-1,3-Dichloropropene	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
1,1,2-Trichloroethane	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Toluene	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
2-Hexanone	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
Dibromochloromethane	1.15	230	23.0	4.60		0.115	0.230	0.575	1.15	5.75	28.8	57.5	115		
1,2-Dibromoethane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
n-Butyl Acetate	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
n-Octane	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Tetrachloroethene	1.02	204	20.4	4.08		0.102	0.204	0.510	1.02	5.10	25.5	51.0	102		
Chlorobenzene	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Ethylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
m-&p-Xylene	2.08	416	41.6	8.32		0.208	0.416	1.04	2.08	10.4	52.0	104	208		

DA 8/11/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240912

20ng/L Std. ID:

200ng/L Std. ID:
Dilution Factors:

5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L): ICAL Points:	ICAL Concentrations (Primary Source)							
		200ng/L	20ng/L	4ng/L		4	4	20	20	20	200	200	200
						0.025	0.050	0.025	0.05	0.25	0.125	0.25	0.50
Bromoform	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103	
Styrene	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
o-Xylene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
n-Nonane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
1,1,2,2-Tetrachloroethane	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
Cumene	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103	
alpha-Pinene	1.01	202	20.2	4.04	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101	
n-Propylbenzene	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103	
3-Ethyltoluene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
4-Ethyltoluene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
1,3,5-Trimethylbenzene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
alpha-Methylstyrene	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
2-Ethyltoluene	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105	
1,2,4-Trimethylbenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
n-Decane	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108	
Benzyl Chloride	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
1,3-Dichlorobenzene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
1,4-Dichlorobenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
sec-Butylbenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
p-Isopropyltoluene	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103	
1,2,3-Trimethylbenzene	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
1,2-Dichlorobenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
d-Limonene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
chloropropane	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
n-Undecane	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
1,2,4-Trichlorobenzene	1.12	224	22.4	4.48	0.112	0.224	0.560	1.12	5.60	28.0	56.0	112	
Naphthalene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
n-Dodecane	0.99	198	19.8	3.96	0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0	
Hexachloro-1,3-butadiene	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
Methacrylonitrile	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
Cyclohexanone	0.98	196	19.6	3.92	0.098	0.196	0.490	0.980	4.90	24.5	49.0	98.0	
tert-Butylbenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
n-Butylbenzene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	

*Enter Information in the Solid Shaded Areas ONLY.

DA 8/11/09

Calibration Status Report GCMS13

Method Path : J:\MS13\METHODS\
 Method File : R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS13\DATA\2009_08\06\08060914.D
2	0.2	0	25	J:\MS13\DATA\2009_08\06\08060915.D
3	0.5	1	25	J:\MS13\DATA\2009_08\06\08060916.D
4	1.0	1	25	J:\MS13\DATA\2009_08\06\08060917.D
5	5.0	5	25	J:\MS13\DATA\2009_08\06\08060918.D
6	25	27	25	J:\MS13\DATA\2009_08\06\08060919.D
7	50	54	25	J:\MS13\DATA\2009_08\06\08060920.D
8	100	107	25	J:\MS13\DATA\2009_08\06\08060921.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 06 17:09 2009	Aug 06 13:44 2009	06 Aug 2009 11:55
2	0.2	Aug 06 17:10 2009	Aug 06 13:51 2009	06 Aug 2009 12:36
3	0.5	Aug 06 17:10 2009	Aug 06 13:52 2009	06 Aug 2009 13:17
4	1.0	Aug 06 17:10 2009	Aug 06 14:32 2009	06 Aug 2009 13:57
5	5.0	Aug 06 17:10 2009	Aug 06 15:06 2009	06 Aug 2009 14:38
6	25	Aug 06 17:11 2009	Aug 06 16:11 2009	06 Aug 2009 15:18
7	50	Aug 06 17:13 2009	Aug 06 17:00 2009	06 Aug 2009 15:59
8	100	Aug 06 17:14 2009	Aug 06 17:08 2009	06 Aug 2009 16:39

R13080609.M Thu Aug 06 17:33:51 2009

USA 8/6/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	255549	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.42	114	1302832	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	644252	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	557049	23.882	ng	0.00
Spiked Amount	25.000		Recovery	= 95.52%		
57) Toluene-d8 (SS2)	18.85	98	1414545	25.331	ng	0.00
Spiked Amount	25.000		Recovery	= 101.32%		
73) Bromofluorobenzene (SS3)	23.24	174	367818	25.794	ng	0.00
Spiked Amount	25.000		Recovery	= 103.16%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	2278m	0.115	ng	
3) Dichlorodifluoromethan...	4.88	85	3433	0.104	ng	# 94
4) Chloromethane	5.22	50	2007	0.097	ng	65
5) 1,2-Dichloro-1,1,2,2-t...	5.44	135	1275	0.099	ng	# 57
6) Vinyl Chloride	5.66	62	1780	0.088	ng	74
7) 1,3-Butadiene	5.93	54	1480	0.102	ng	# 57
8) Bromomethane	6.41	94	1318	0.141	ng	87
9) Chloroethane	6.74	64	1110	0.099	ng	# 41
10) Ethanol	7.16	45	7147	0.588	ng	69
11) Acetonitrile	7.45	41	4069	0.095	ng	91
12) Acrolein	7.61	56	811	0.069	ng	# 31
13) Acetone	7.89	58	11564	0.833	ng	96
14) Trichlorofluoromethane	8.05	101	2930	0.103	ng	93
15) 2-Propanol (Isopropanol)	8.41	45	10270	0.224	ng	74
16) Acrylonitrile	8.64	53	1328m	0.066	ng	
17) 1,1-Dichloroethene	9.05	96	1235	0.096	ng	87
18) 2-Methyl-2-Propanol (t...	9.38	59	9529	0.242	ng	# 74
19) Methylene Chloride	9.25	84	1883	0.126	ng	97
20) 3-Chloro-1-propene (Al...	9.45	41	3293m	0.136	ng	
21) Trichlorotrifluoroethane	9.69	151	962	0.092	ng	# 76
22) Carbon Disulfide	9.66	76	5999	0.117	ng	# 74
23) trans-1,2-Dichloroethene	10.68	61	2002	0.090	ng	97
24) 1,1-Dichloroethane	10.98	63	2893	0.104	ng	89
25) Methyl tert-Butyl Ether	11.26	73	4584	0.102	ng	94
26) Vinyl Acetate	11.31	86	1182	0.392	ng	# 1
27) 2-Butanone (MEK)	11.76	72	1112	0.111	ng	# 28
28) cis-1,2-Dichloroethene	12.25	61	2132	0.099	ng	90
29) Diisopropyl Ether	12.70	87	1108	0.091	ng	# 1
30) Ethyl Acetate	12.74	61	860	0.165	ng	# 73
31) n-Hexane	12.59	57	3082	0.112	ng	70

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DA 8/6/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	2517	0.100	ng	93
34) Tetrahydrofuran (THF)	13.49	72	2071	0.175	ng #	78
35) Ethyl tert-Butyl Ether	13.50	87	1839	0.099	ng #	87
36) 1,2-Dichloroethane	13.80	62	2282	0.103	ng #	62
38) 1,1,1-Trichloroethane	14.19	97	2700	0.112	ng	89
39) Isopropyl Acetate	14.88	61	2167	0.217	ng #	92
40) 1-Butanol	14.97	56	4795	0.282	ng #	79
41) Benzene	14.88	78	7680	0.120	ng	96
42) Carbon Tetrachloride	15.11	117	1945	0.096	ng	94
43) Cyclohexane	15.30	84	5207	0.231	ng	98
44) tert-Amyl Methyl Ether	15.91	73	5009	0.107	ng	91
45) 1,2-Dichloropropane	16.11	63	1549	0.100	ng	99
46) Bromodichloromethane	16.37	83	2109	0.107	ng	98
47) Trichloroethene	16.45	130	1409	0.106	ng	98
48) 1,4-Dioxane	16.57	88	1174	0.103	ng #	56
49) 2,2,4-Trimethylpentane...	16.52	57	7907	0.112	ng	98
50) Methyl Methacrylate	16.79	100	927	0.171	ng #	35
51) n-Heptane	16.89	71	1821	0.109	ng #	88
52) cis-1,3-Dichloropropene	17.66	75	2536	0.105	ng	86
53) 4-Methyl-2-pentanone	17.81	58	1504	0.104	ng	85
54) trans-1,3-Dichloropropene	18.36	75	2818	0.128	ng	86
55) 1,1,2-Trichloroethane	18.61	97	1358	0.101	ng	92
58) Toluene	18.98	91	7232	0.125	ng	97
59) 2-Hexanone	19.41	43	4623	0.119	ng	91
60) Dibromochloromethane	19.53	129	1445	0.107	ng	97
61) 1,2-Dibromoethane	19.87	107	1548	0.111	ng	98
62) n-Butyl Acetate	20.21	43	5583	0.127	ng	97
63) n-Octane	20.28	57	1545	0.106	ng	95
64) Tetrachloroethene	20.47	166	1267	0.096	ng	98
65) Chlorobenzene	21.35	112	4424	0.127	ng	91
66) Ethylbenzene	21.82	91	7796	0.119	ng	99
67) m- & p-Xylenes	22.06	91	12746	0.242	ng #	30
68) Bromoform	22.15	173	892	0.081	ng	95
69) Styrene	22.51	104	4388	0.119	ng	97
70) o-Xylene	22.66	91	6325	0.119	ng	98
71) n-Nonane	22.91	43	4513	0.122	ng	93
72) 1,1,2,2-Tetrachloroethane	22.64	83	2620	0.112	ng	100
74) Cumene	23.41	105	8086	0.125	ng	97
75) alpha-Pinene	23.91	93	3657	0.107	ng	94
76) n-Propylbenzene	24.05	91	9900	0.119	ng	97
77) 3-Ethyltoluene	24.18	105	8022	0.131	ng	93
78) 4-Ethyltoluene	24.23	105	7924	0.128	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	6660	0.126	ng	97

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

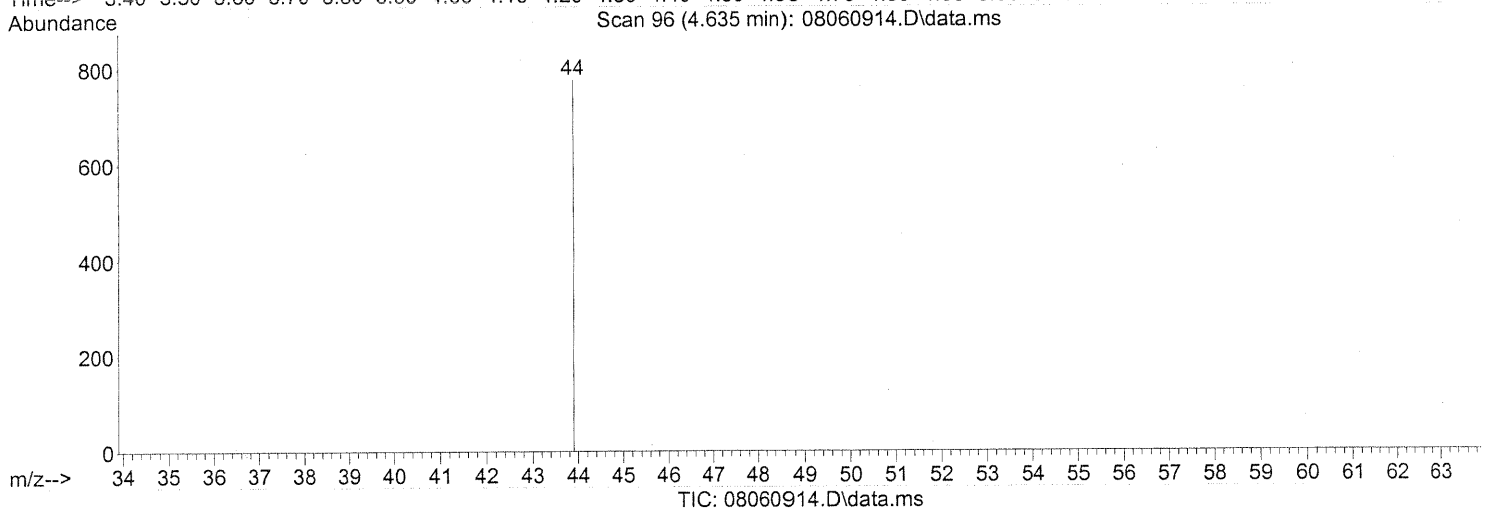
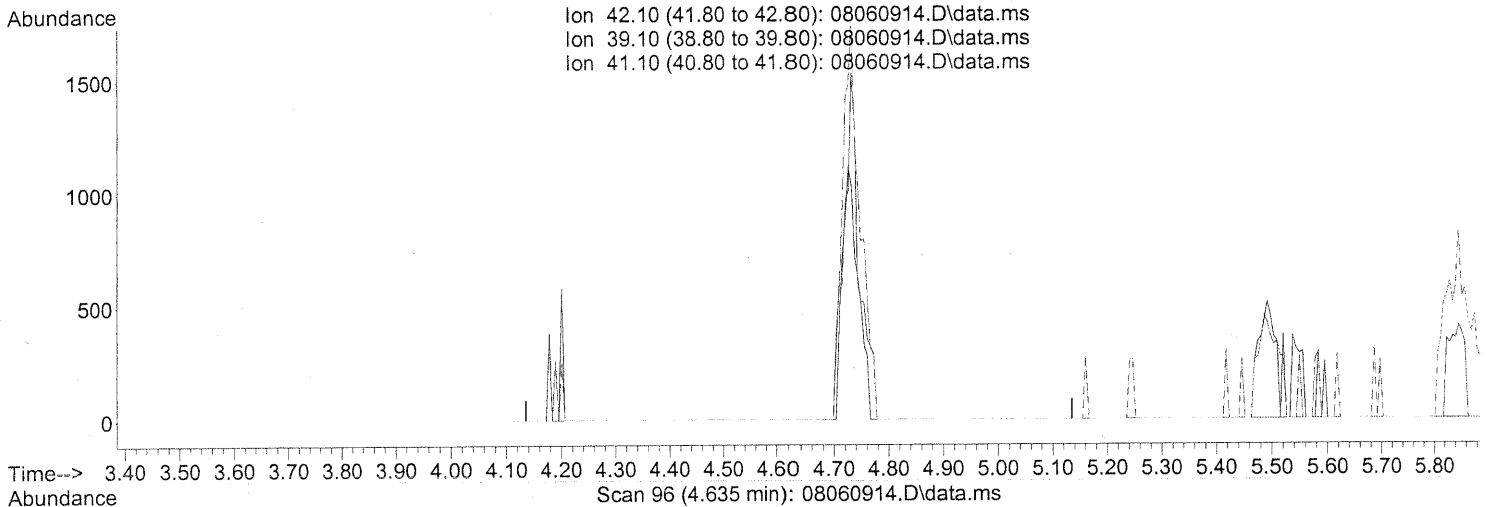
Internal Standards	R.T.	QIOn	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	3235	0.121	ng	93
81) 2-Ethyltoluene	24.56	105	7755	0.121	ng	95
82) 1,2,4-Trimethylbenzene	24.83	105	6020	0.114	ng	98
83) n-Decane	24.93	57	4190	0.120	ng	96
84) Benzyl Chloride	25.01	91	5455	0.120	ng	96
85) 1,3-Dichlorobenzene	25.03	146	3266	0.129	ng	95
86) 1,4-Dichlorobenzene	25.11	146	3418	0.127	ng	96
87) sec-Butylbenzene	25.17	105	8575	0.121	ng	94
88) 4-Isopropyltoluene (p-...	25.35	119	7056	0.112	ng	94
89) 1,2,3-Trimethylbenzene	25.36	105	6195	0.115	ng	95
90) 1,2-Dichlorobenzene	25.53	146	2877	0.118	ng	94
91) d-Limonene	25.53	68	2659	0.116	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	724	0.093	ng #	73
93) n-Undecane	26.46	57	4598	0.129	ng	92
94) 1,2,4-Trichlorobenzene	27.61	180	1826	0.118	ng #	75
95) Naphthalene	27.77	128	8775	0.145	ng	72
96) n-Dodecane	27.71	57	5122m	0.135	ng	
97) Hexachlorobutadiene	28.15	225	1439	0.145	ng	94
98) Cyclohexanone	22.35	55	2671	0.101	ng	91
99) tert-Butylbenzene	24.83	119	6387	0.126	ng	92
100) n-Butylbenzene	25.86	91	7008	0.122	ng	96

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(2) Propene (T)

4.635min (-4.635) 0.00ng

response 0

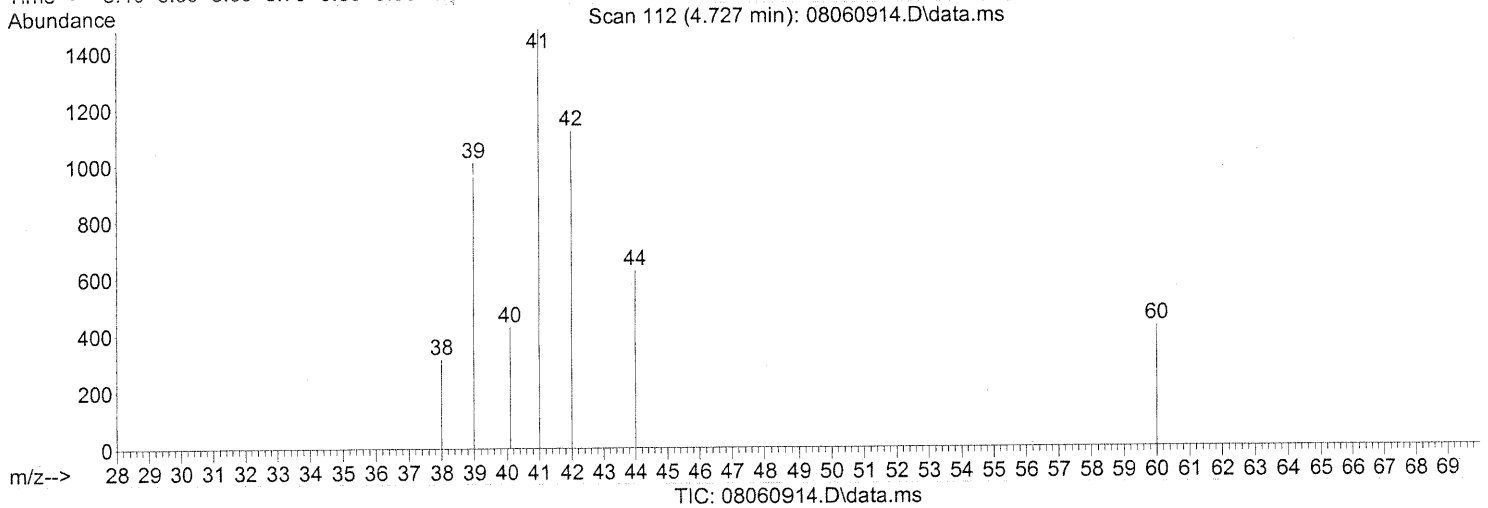
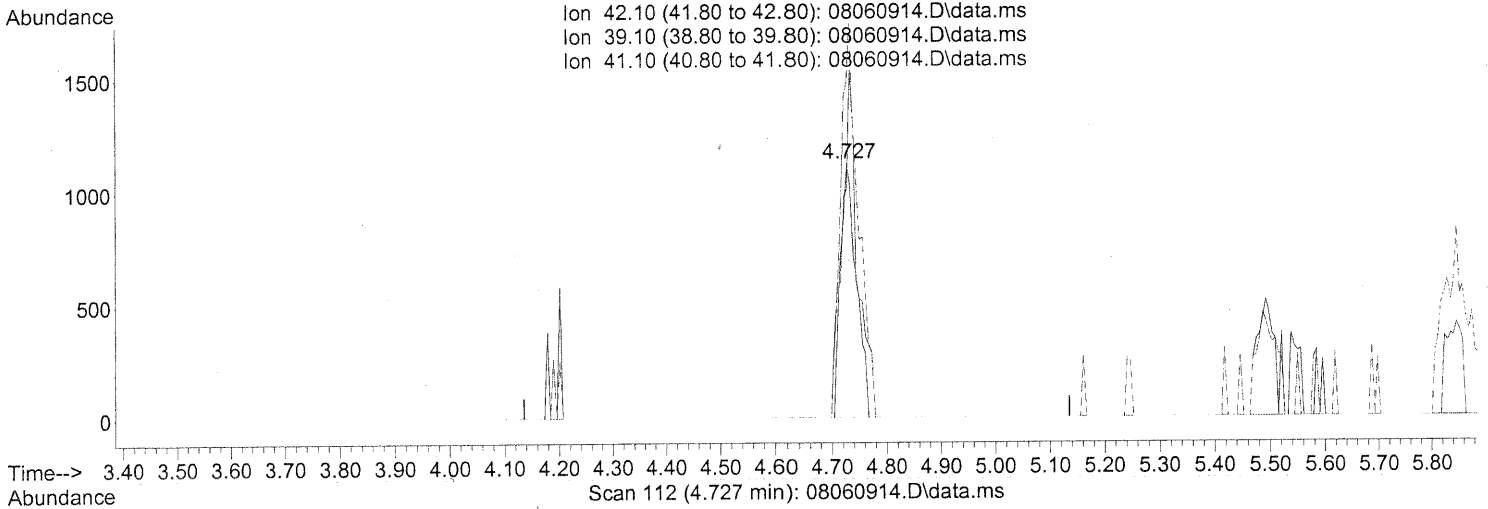
HP

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.727min (+0.092) 0.12ng m
 response 2278

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

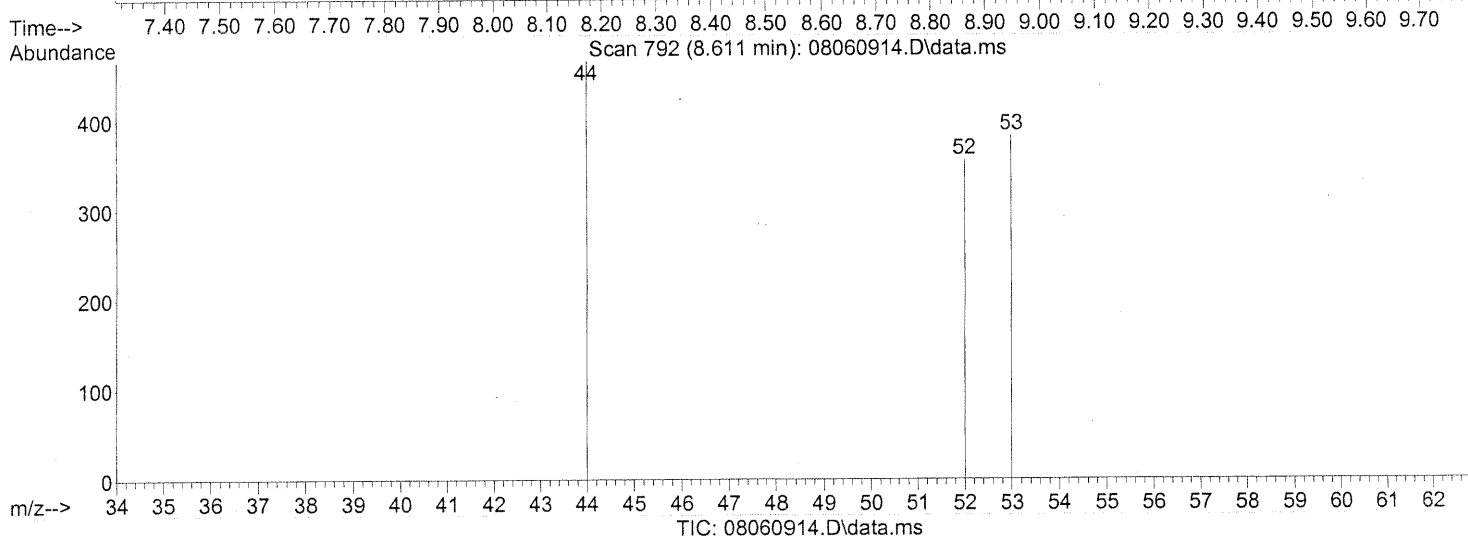
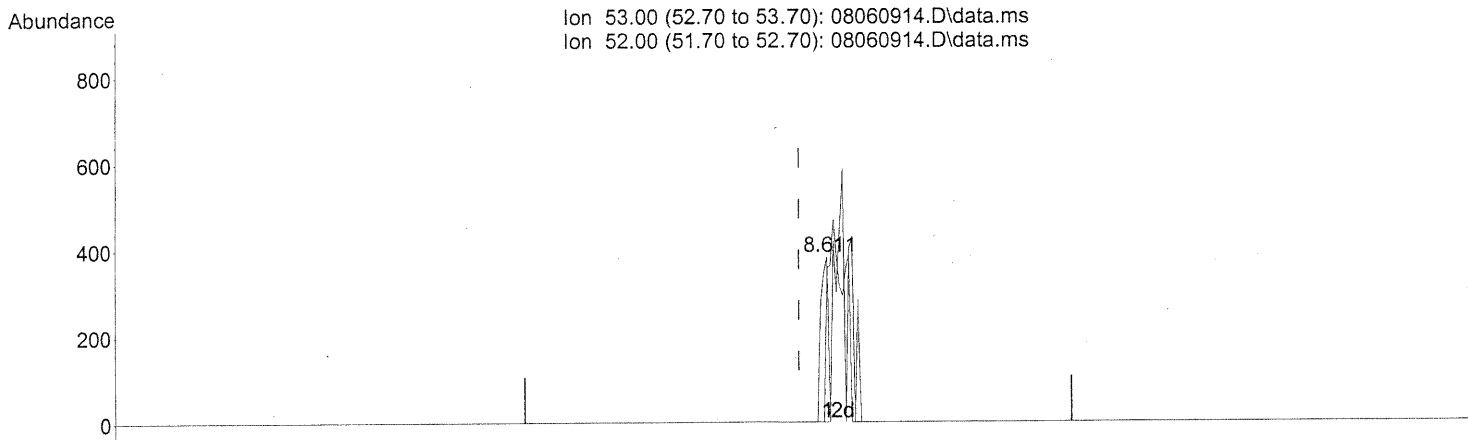
HP → IC

WA 8/6/09
 WA 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.611min (+0.052) 0.02ng

response 347

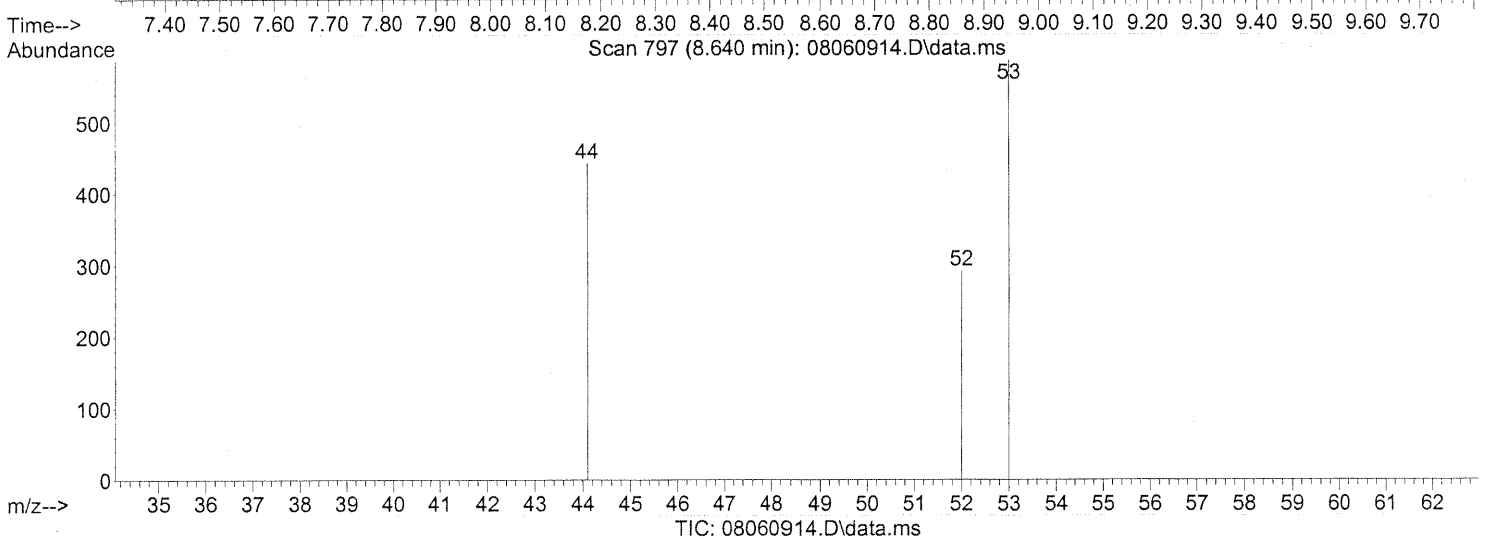
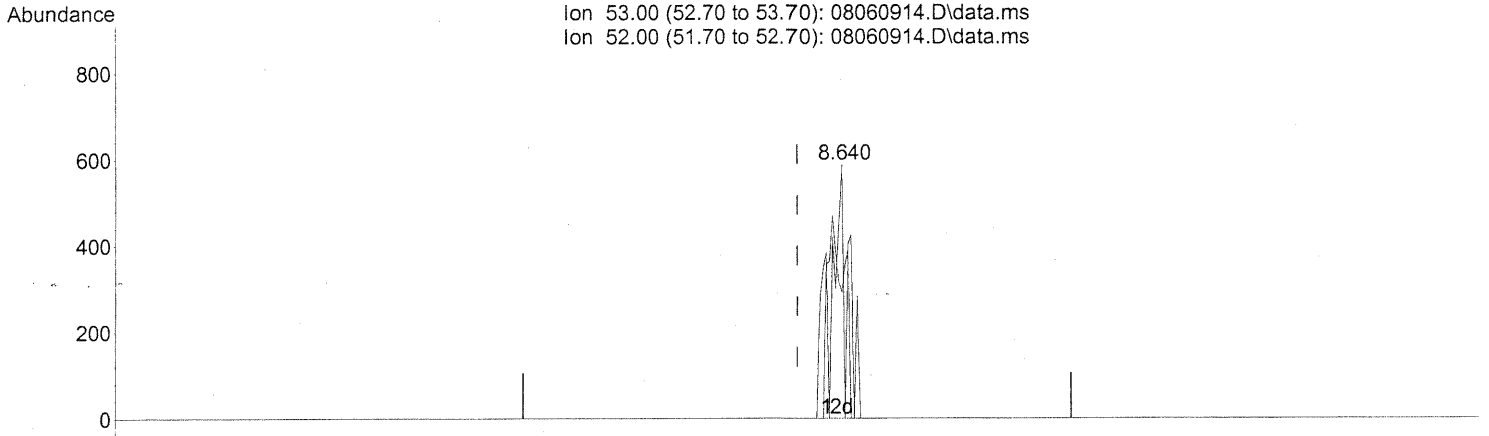
MP

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	289.91#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.640min (+0.080) 0.07ng m

response 1328

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	75.75
0.00	0.00	0.00
0.00	0.00	0.00

HP → IC

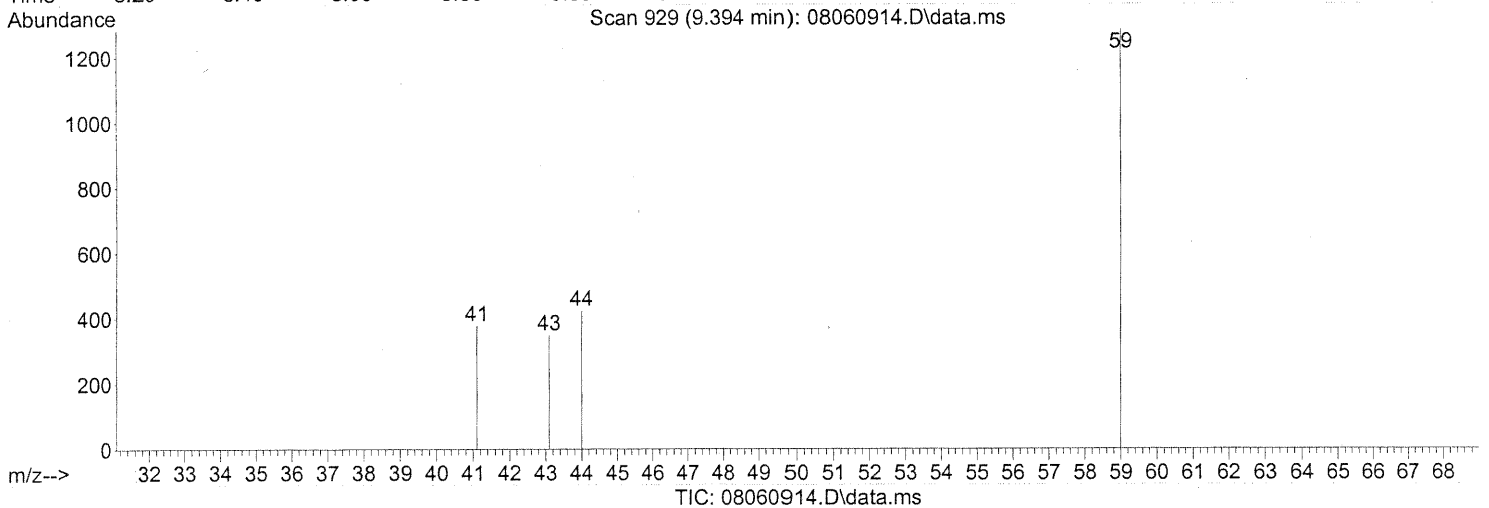
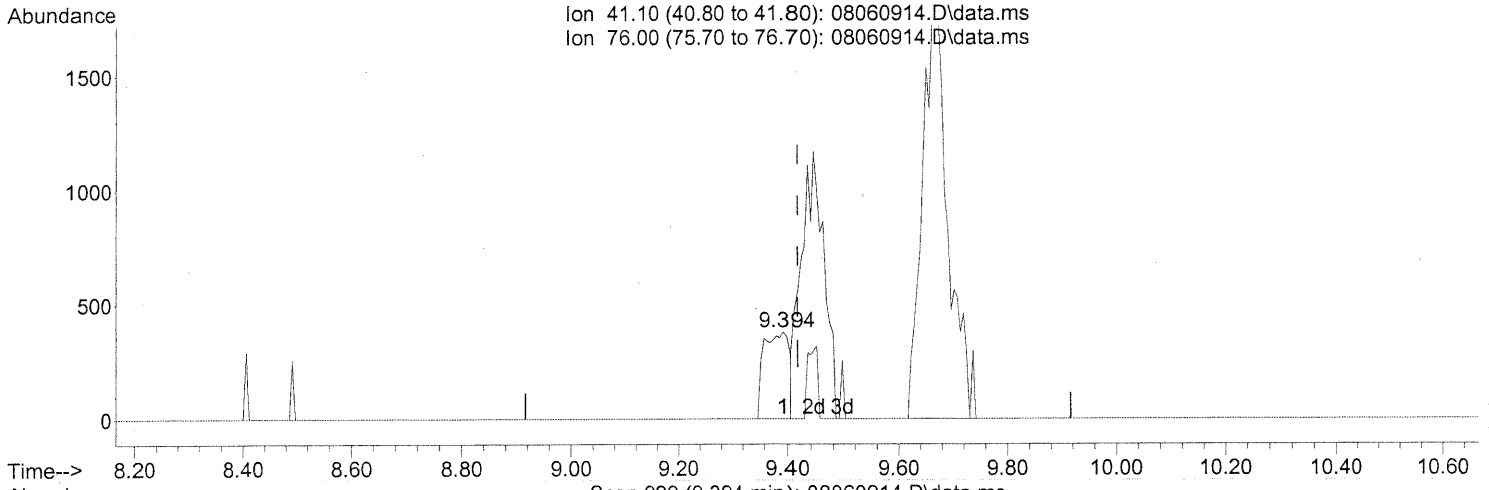
WA 8/6/09

WA 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



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

9.394min (-0.023) 0.05ng

response 1147

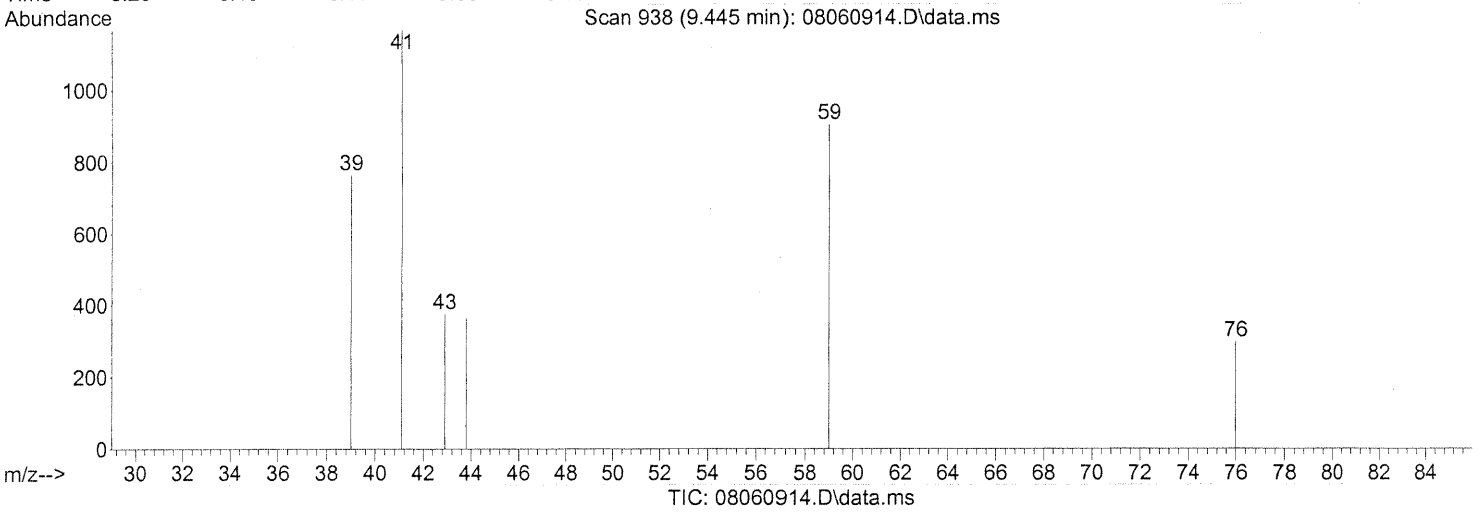
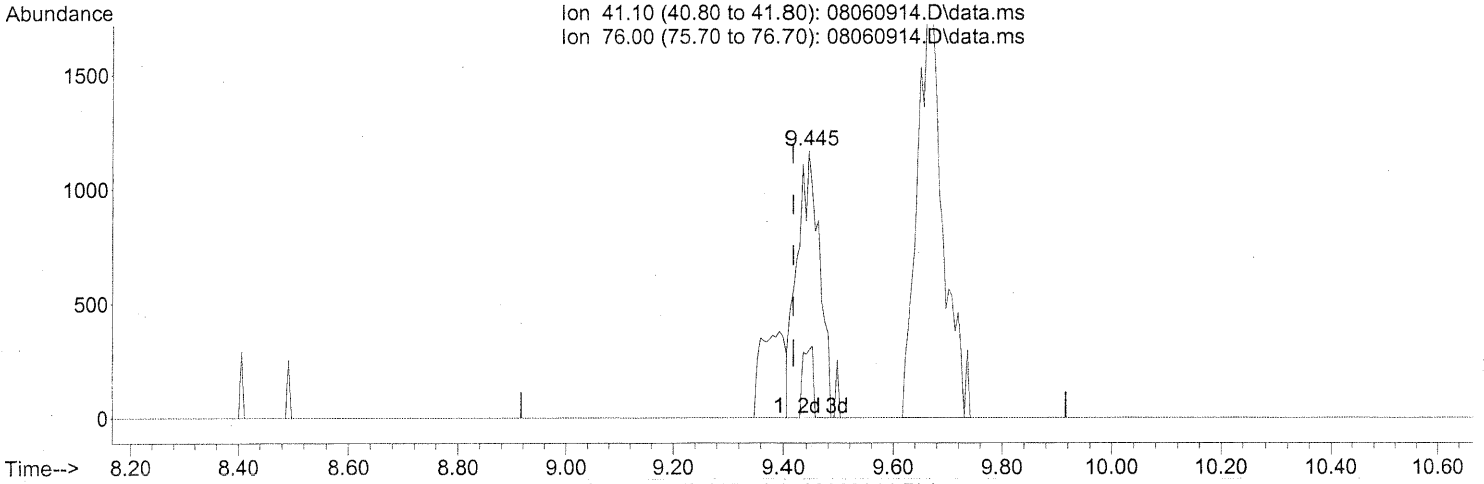
IPI

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



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

9.445min (+0.029) 0.14ng m

response 3293

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

IPI -> IC

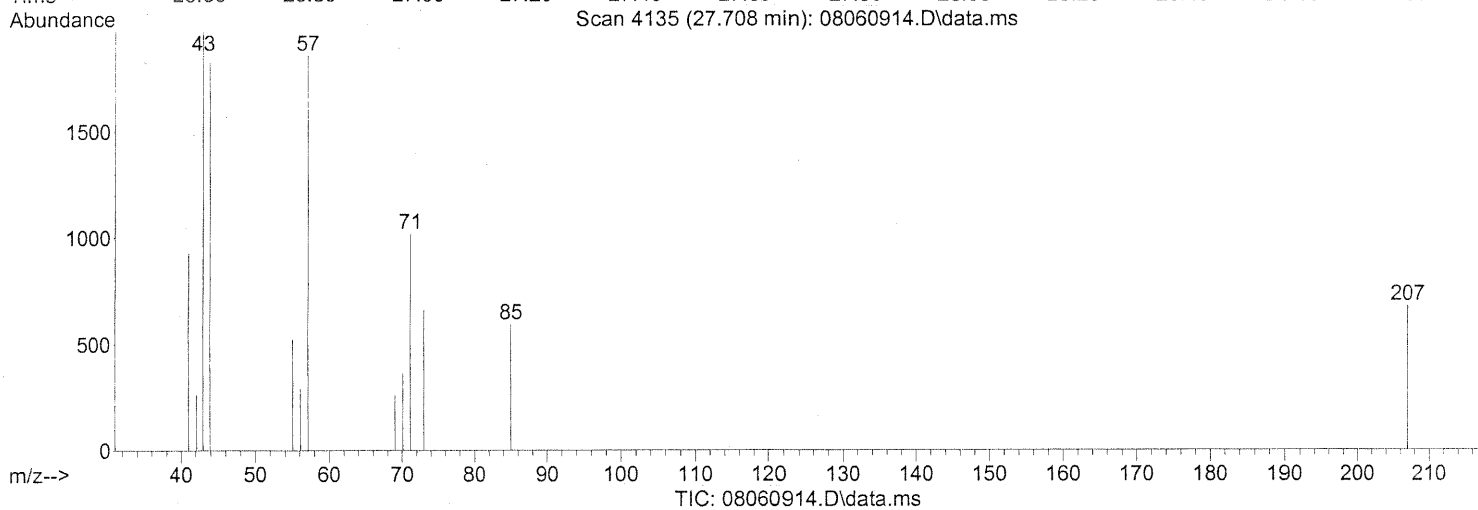
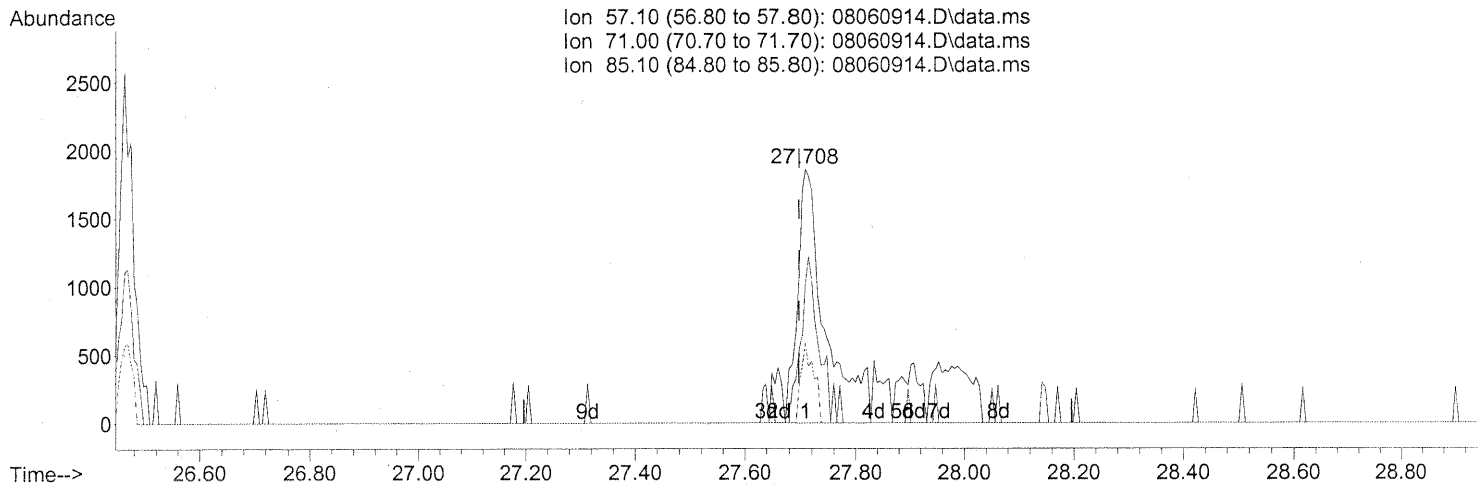
DA 8/6/09

UH 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



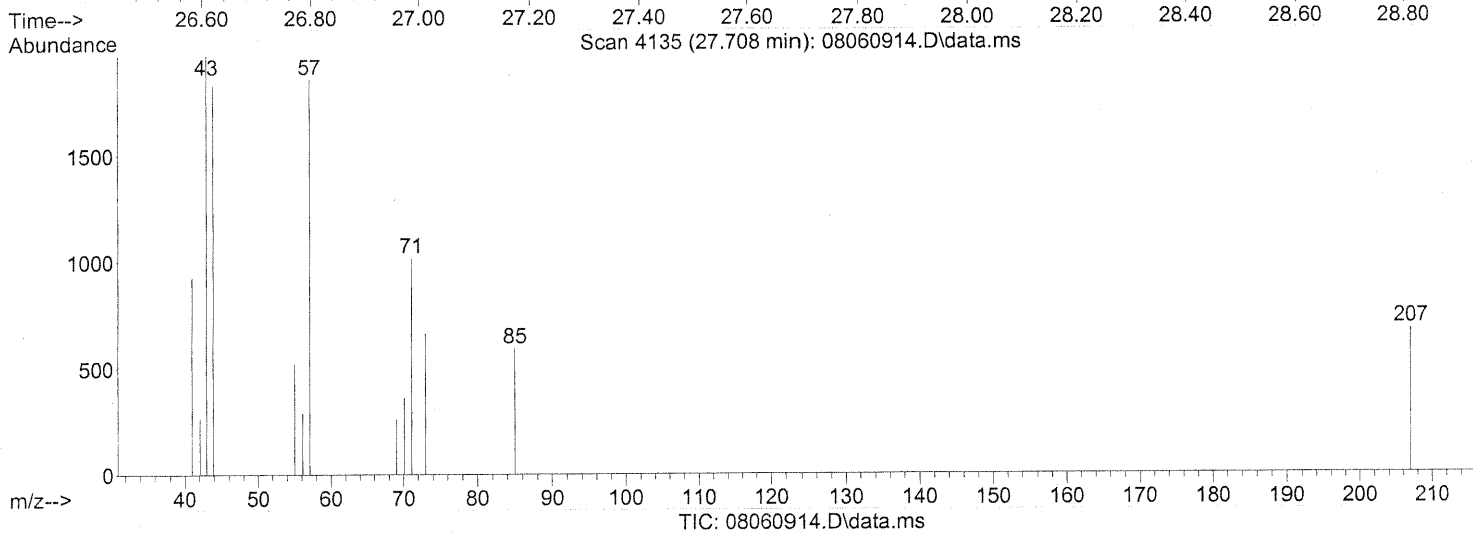
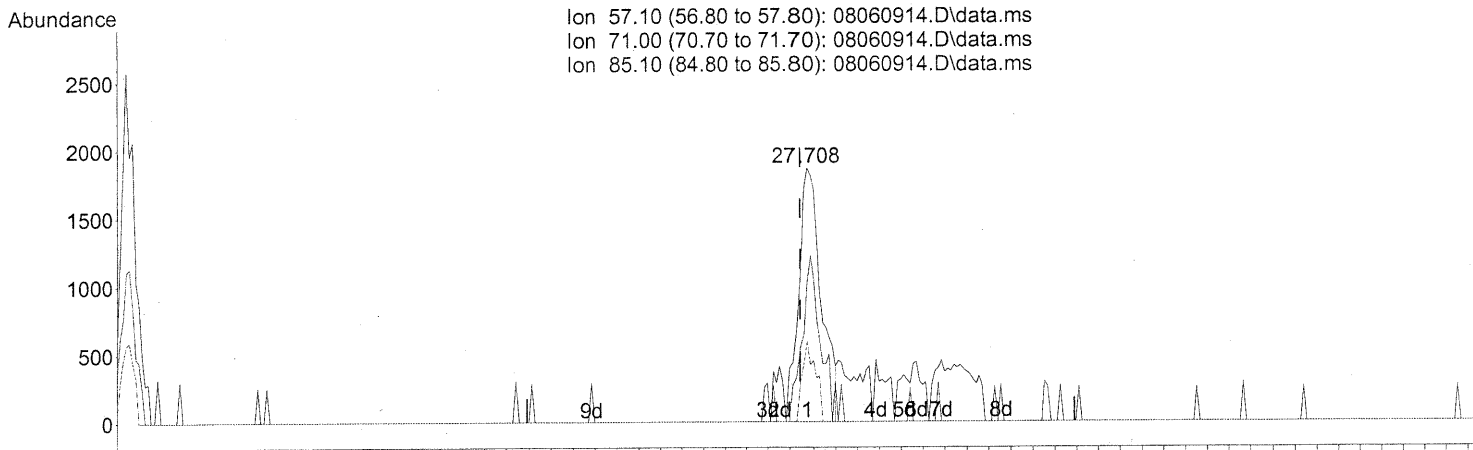
(96) n-Dodecane (T)
27.708min (+0.012) 0.17ng
response 6461
Ion Exp% Act%
57.10 100 100
71.00 55.20 44.30
85.10 31.00 15.03
0.00 0.00 0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(96) n-Dodecane (T)
 27.708min (+0.012) 0.14ng m

response 5122

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	55.88
85.10	31.00	18.96
0.00	0.00	0.00

PT → IC

WA 8/6/09

WA 8/11/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	252357	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1287515	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	648408	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4 (...)	13.63	65	555188	24.104	ng	-0.01
Spiked Amount				25.000		
Recovery						96.40%
57) Toluene-d8 (SS2)	18.85	98	1423881	25.335	ng	0.00
Spiked Amount				25.000		
Recovery						101.32%
73) Bromofluorobenzene (SS3)	23.24	174	367233	25.587	ng	0.00
Spiked Amount				25.000		
Recovery						102.36%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.72	42	4419	0.226	ng	95
3) Dichlorodifluoromethan...	4.88	85	6369	0.196	ng #	87
4) Chloromethane	5.21	50	4086	0.199	ng	83
5) 1,2-Dichloro-1,1,2,2-t...	5.43	135	2817	0.221	ng	91
6) Vinyl Chloride	5.65	62	3579	0.178	ng	98
7) 1,3-Butadiene	5.92	54	3131	0.218	ng #	84
8) Bromomethane	6.39	94	2208	0.240	ng	96
9) Chloroethane	6.73	64	2365	0.214	ng	76
10) Ethanol	7.14	45	12938	1.079	ng	90
11) Acetonitrile	7.43	41	8087	0.191	ng	98
12) Acrolein	7.61	56	1996	0.172	ng	97
13) Acetone	7.88	58	19631	1.432	ng	90
14) Trichlorofluoromethane	8.03	101	5515	0.196	ng	100
15) 2-Propanol (Isopropanol)	8.39	45	18213	0.402	ng	92
16) Acrylonitrile	8.61	53	4154	0.208	ng #	68
17) 1,1-Dichloroethene	9.06	96	2579	0.203	ng	95
18) 2-Methyl-2-Propanol (t...	9.36	59	16711	0.430	ng #	72
19) Methylene Chloride	9.26	84	3503	0.237	ng	87
20) 3-Chloro-1-propene (Al...	9.45	41	6518	0.274	ng	75
21) Trichlorotrifluoroethane	9.70	151	2010	0.194	ng	88
22) Carbon Disulfide	9.66	76	11291	0.222	ng	89
23) trans-1,2-Dichloroethene	10.69	61	4685	0.213	ng	98
24) 1,1-Dichloroethane	10.99	63	5901	0.215	ng	94
25) Methyl tert-Butyl Ether	11.26	73	8904	0.200	ng	96
26) Vinyl Acetate	11.29	86	2463	0.826	ng #	18
27) 2-Butanone (MEK)	11.74	72	2236	0.225	ng #	50
28) cis-1,2-Dichloroethene	12.24	61	4357	0.205	ng	93
29) Diisopropyl Ether	12.69	87	2973	0.247	ng #	1
30) Ethyl Acetate	12.72	61	2207	0.428	ng	92
31) n-Hexane	12.59	57	6299	0.232	ng	84

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	4817	0.193	ng	98
34) Tetrahydrofuran (THF)	13.47	72	3093	0.264	ng #	79
35) Ethyl tert-Butyl Ether	13.50	87	3408	0.185	ng	93
36) 1,2-Dichloroethane	13.80	62	4457	0.203	ng	93
38) 1,1,1-Trichloroethane	14.18	97	4737	0.198	ng	94
39) Isopropyl Acetate	14.88	61	4379	0.444	ng #	93
40) 1-Butanol	14.96	56	8215	0.489	ng	83
41) Benzene	14.87	78	14131	0.224	ng	100
42) Carbon Tetrachloride	15.11	117	3903	0.195	ng	90
43) Cyclohexane	15.30	84	9304	0.418	ng	95
44) tert-Amyl Methyl Ether	15.90	73	9698	0.210	ng	97
45) 1,2-Dichloropropane	16.11	63	3093	0.202	ng	90
46) Bromodichloromethane	16.37	83	4318	0.222	ng	99
47) Trichloroethene	16.43	130	2706	0.206	ng	96
48) 1,4-Dioxane	16.59	88	2311	0.204	ng	80
49) 2,2,4-Trimethylpentane...	16.52	57	15224	0.219	ng	98
50) Methyl Methacrylate	16.80	100	2319	0.433	ng #	89
51) n-Heptane	16.89	71	3376	0.205	ng	94
52) cis-1,3-Dichloropropene	17.65	75	4783	0.201	ng	95
53) 4-Methyl-2-pentanone	17.81	58	3120	0.219	ng	83
54) trans-1,3-Dichloropropene	18.37	75	4944	0.227	ng	98
55) 1,1,2-Trichloroethane	18.61	97	2714	0.205	ng	97
58) Toluene	18.98	91	12787	0.220	ng	99
59) 2-Hexanone	19.41	43	8414	0.215	ng	94
60) Dibromochloromethane	19.53	129	2958	0.217	ng	97
61) 1,2-Dibromoethane	19.87	107	3012	0.214	ng	96
62) n-Butyl Acetate	20.20	43	10164	0.229	ng	95
63) n-Octane	20.28	57	3172	0.216	ng	90
64) Tetrachloroethene	20.47	166	2555	0.193	ng	91
65) Chlorobenzene	21.35	112	7635	0.217	ng	94
66) Ethylbenzene	21.82	91	14159	0.215	ng	100
67) m- & p-Xylenes	22.04	91	23298	0.439	ng #	30
68) Bromoform	22.15	173	2052	0.184	ng	92
69) Styrene	22.51	104	8110	0.219	ng	96
70) o-Xylene	22.65	91	11714	0.220	ng	99
71) n-Nonane	22.91	43	8045	0.216	ng	83
72) 1,1,2,2-Tetrachloroethane	22.63	83	5167	0.220	ng	91
74) Cumene	23.41	105	14433	0.222	ng	97
75) alpha-Pinene	23.91	93	7275	0.211	ng	82
76) n-Propylbenzene	24.05	91	17557	0.210	ng	99
77) 3-Ethyltoluene	24.18	105	14616	0.237	ng	95
78) 4-Ethyltoluene	24.23	105	13728	0.220	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	11202	0.210	ng	98

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

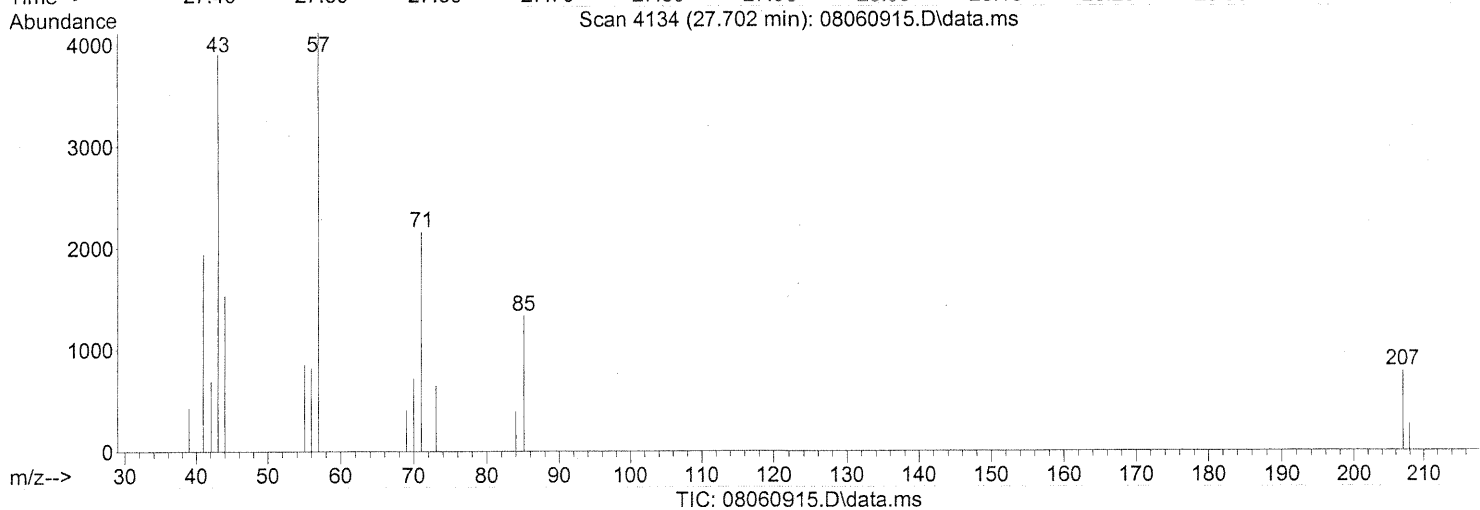
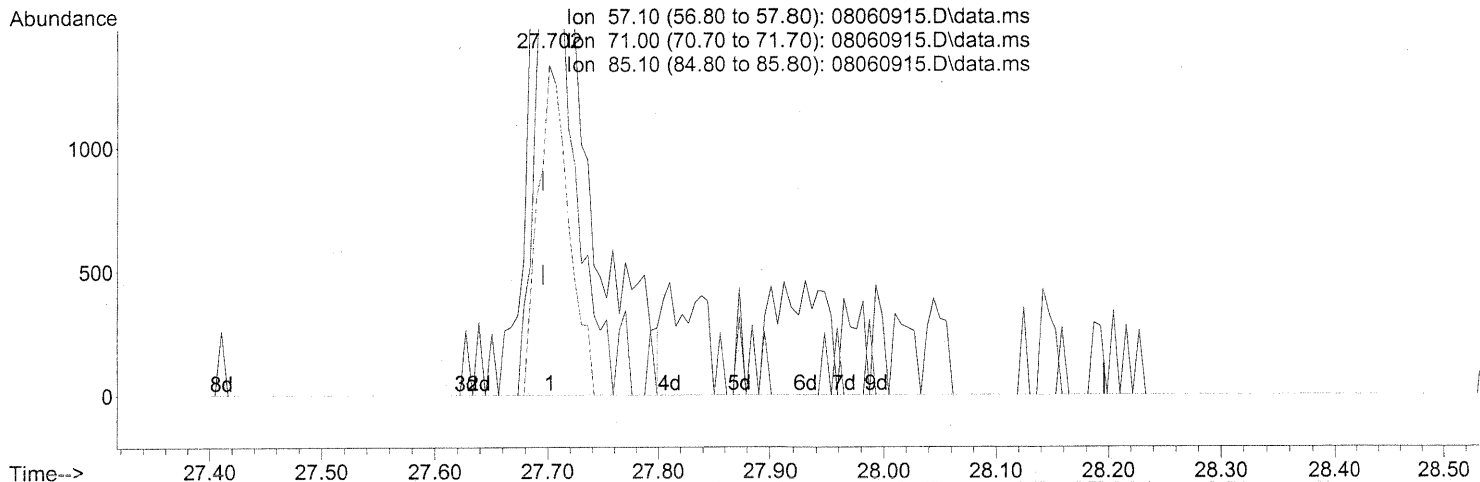
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	5651	0.210	ng	99
81) 2-Ethyltoluene	24.57	105	13747	0.213	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	11876	0.224	ng	98
83) n-Decane	24.93	57	7948	0.226	ng	95
84) Benzyl Chloride	25.00	91	10911	0.238	ng	97
85) 1,3-Dichlorobenzene	25.03	146	5614	0.221	ng	98
86) 1,4-Dichlorobenzene	25.11	146	6064	0.225	ng	94
87) sec-Butylbenzene	25.17	105	15761	0.221	ng	96
88) 4-Isopropyltoluene (p-...	25.35	119	13140	0.207	ng	95
89) 1,2,3-Trimethylbenzene	25.36	105	12238	0.227	ng	97
90) 1,2-Dichlorobenzene	25.53	146	5142	0.209	ng	95
91) d-Limonene	25.53	68	5001	0.217	ng	93
92) 1,2-Dibromo-3-Chloropr...	26.07	157	1840	0.234	ng	93
93) n-Undecane	26.46	57	8565	0.238	ng	94
94) 1,2,4-Trichlorobenzene	27.58	180	3584	0.231	ng	# 89
95) Naphthalene	27.74	128	15295	0.251	ng	84
96) n-Dodecane	27.70	57	9176m	0.241	ng	
97) Hexachlorobutadiene	28.14	225	2566	0.257	ng	96
98) Cyclohexanone	22.34	55	4726	0.178	ng	94
99) tert-Butylbenzene	24.83	119	10963	0.214	ng	100
100) n-Butylbenzene	25.87	91	12700	0.219	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060915.D
Acq On : 6 Aug 2009 12:36
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:57 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(96) n-Dodecane (T)
27.702min (+0.006) 0.27ng
response 10324

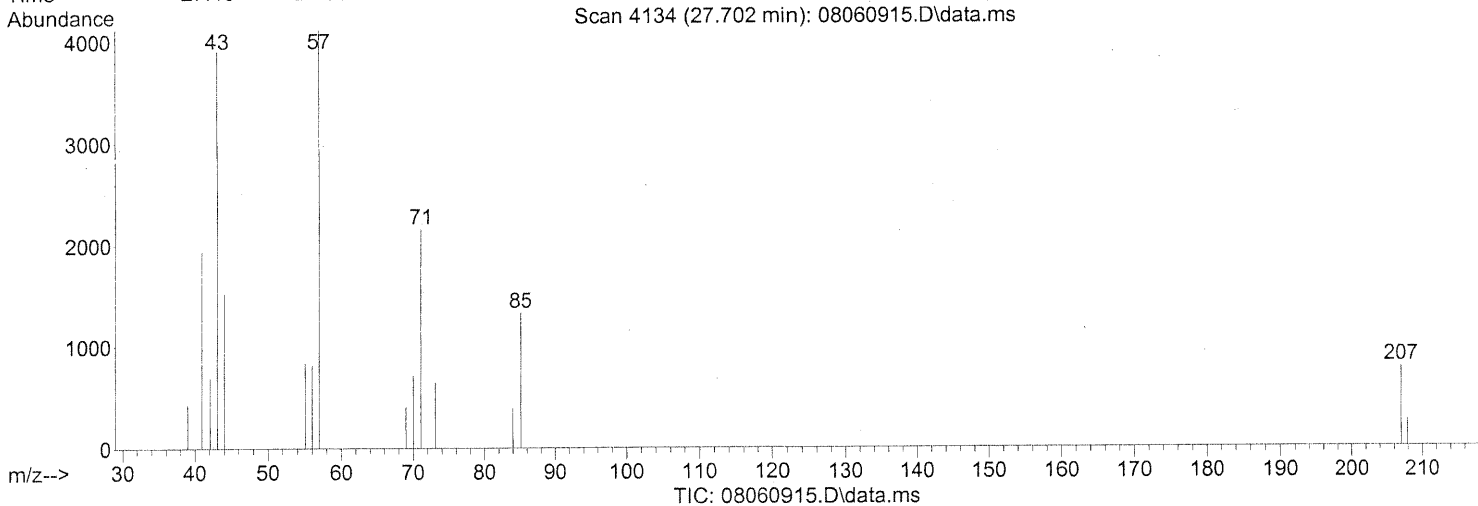
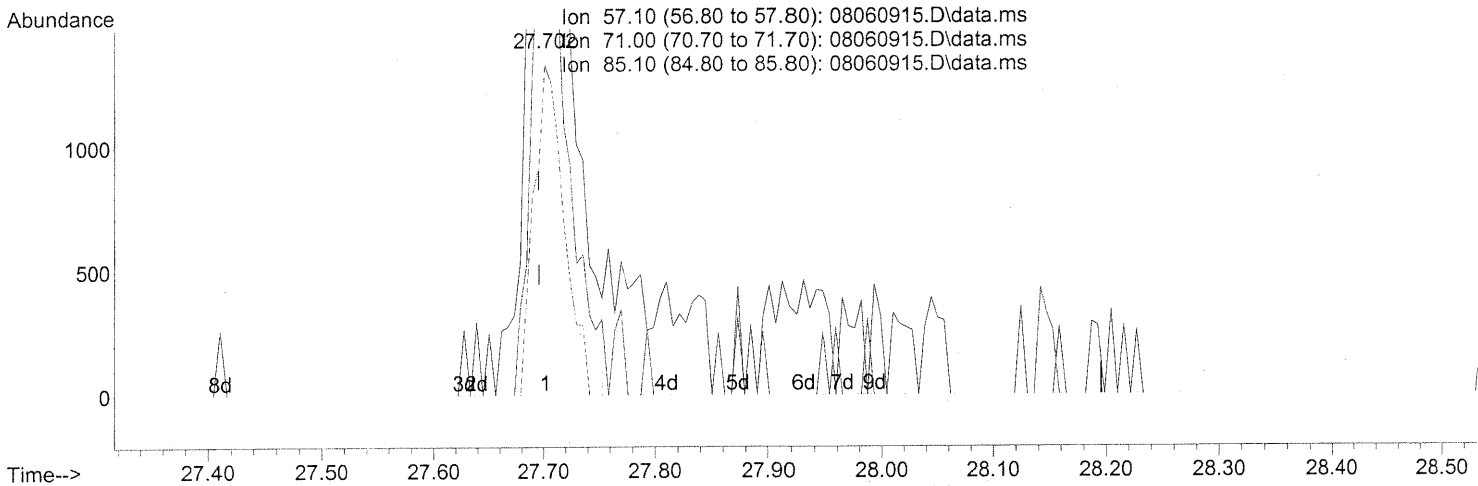
PT

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	48.39
85.10	31.00	24.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:57 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(96) n-Dodecane (T)

27.702min (+0.006) 0.24ng m

response 9176

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	54.45
85.10	31.00	27.86
0.00	0.00	0.00

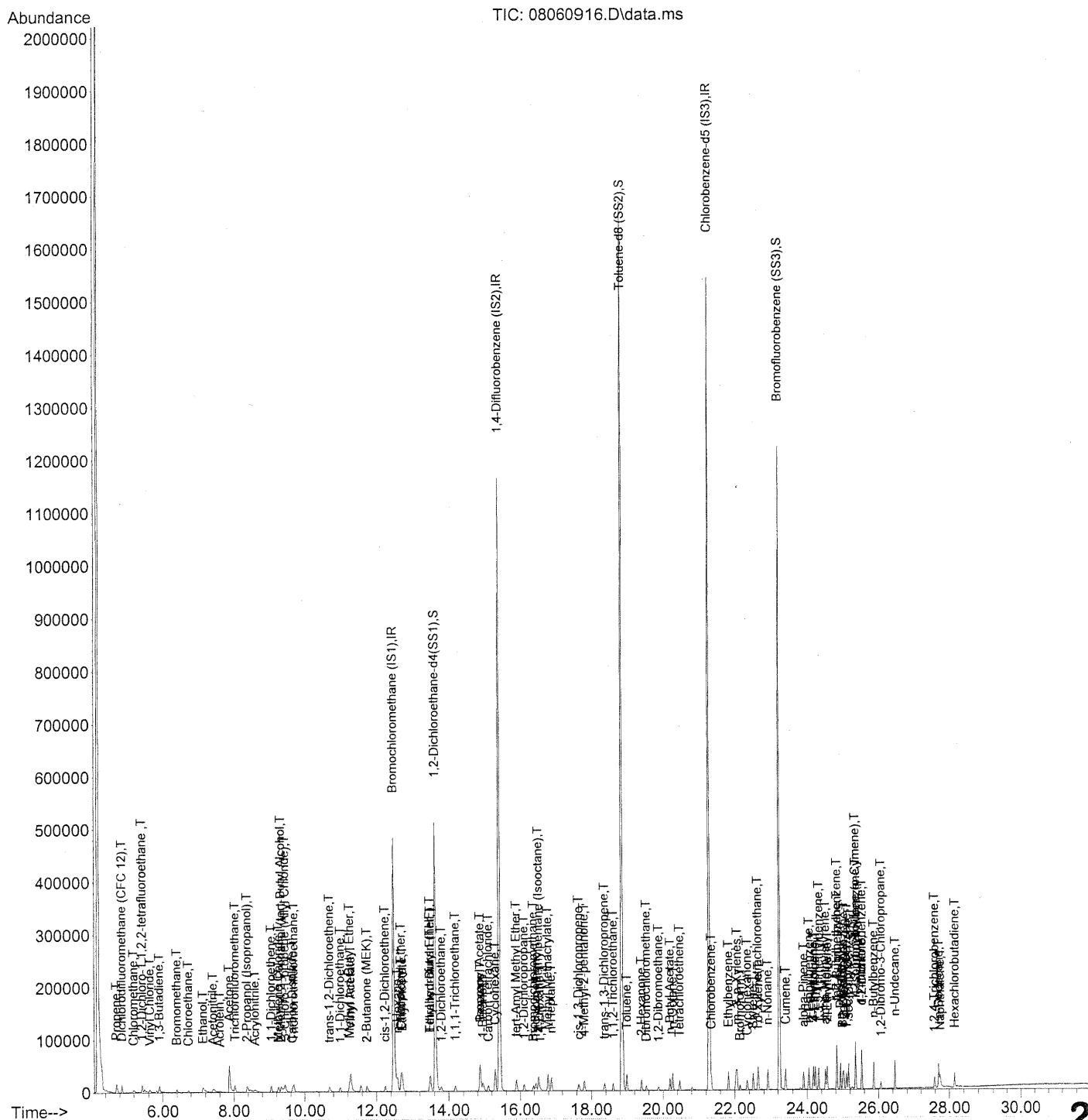
PT → IC

DA 8/6/09

UA 8/11/09

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060916.D
Acq On : 6 Aug 2009 13:17
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-07200902/S20-07310903
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	251360	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1297306	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	659325	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	555033	24.193	ng	0.00
Spiked Amount	25.000		Recovery	=	96.76%	
57) Toluene-d8 (SS2)	18.85	98	1438185	25.165	ng	0.00
Spiked Amount	25.000		Recovery	=	100.68%	
73) Bromofluorobenzene (SS3)	23.24	174	371243	25.439	ng	0.00
Spiked Amount	25.000		Recovery	=	101.76%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.70	42	8216	0.422	ng	95
3) Dichlorodifluoromethan...	4.86	85	14734	0.455	ng	97
4) Chloromethane	5.20	50	9411	0.460	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	6371	0.503	ng	100
6) Vinyl Chloride	5.64	62	8565	0.428	ng	99
7) 1,3-Butadiene	5.91	54	7445	0.520	ng	95
8) Bromomethane	6.40	94	5266	0.574	ng	94
9) Chloroethane	6.73	64	4665	0.424	ng	97
10) Ethanol	7.13	45	26864	2.249	ng	95
11) Acetonitrile	7.42	41	16894	0.401	ng	99
12) Acrolein	7.61	56	4162	0.360	ng	96
13) Acetone	7.87	58	32266	2.363	ng	95
14) Trichlorofluoromethane	8.03	101	13358	0.476	ng	98
15) 2-Propanol (Isopropanol)	8.37	45	40537	0.898	ng	83
16) Acrylonitrile	8.59	53	9433	0.475	ng	98
17) 1,1-Dichloroethene	9.06	96	6255	0.494	ng	91
18) 2-Methyl-2-Propanol (t...	9.33	59	37768	0.976	ng	82
19) Methylene Chloride	9.26	84	6743	0.459	ng	98
20) 3-Chloro-1-propene (Al...	9.44	41	15298	0.645	ng	80
21) Trichlorotrifluoroethane	9.70	151	4915	0.477	ng	96
22) Carbon Disulfide	9.65	76	24760	0.489	ng	# 74
23) trans-1,2-Dichloroethene	10.69	61	10278	0.469	ng	99
24) 1,1-Dichloroethane	10.99	63	12065	0.442	ng	98
25) Methyl tert-Butyl Ether	11.25	73	19979	0.451	ng	99
26) Vinyl Acetate	11.29	86	5981	2.014	ng	# 48
27) 2-Butanone (MEK)	11.74	72	5062	0.512	ng	# 88
28) cis-1,2-Dichloroethene	12.24	61	9809	0.463	ng	99
29) Diisopropyl Ether	12.69	87	6520	0.544	ng	# 1
30) Ethyl Acetate	12.72	61	5291	1.030	ng	97
31) n-Hexane	12.58	57	12706	0.470	ng	91

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	11191	0.451	ng	99
34) Tetrahydrofuran (THF)	13.48	72	5678	0.487	ng	# 86
35) Ethyl tert-Butyl Ether	13.49	87	8229	0.448	ng	97
36) 1,2-Dichloroethane	13.80	62	10322	0.472	ng	97
38) 1,1,1-Trichloroethane	14.18	97	10785	0.448	ng	98
39) Isopropyl Acetate	14.87	61	9606	0.968	ng	# 90
40) 1-Butanol	14.96	56	16246	0.959	ng	85
41) Benzene	14.88	78	29072	0.458	ng	99
42) Carbon Tetrachloride	15.11	117	9173	0.455	ng	100
43) Cyclohexane	15.30	84	21267	0.948	ng	99
44) tert-Amyl Methyl Ether	15.89	73	21956	0.472	ng	98
45) 1,2-Dichloropropane	16.11	63	7082	0.459	ng	98
46) Bromodichloromethane	16.37	83	9525	0.486	ng	99
47) Trichloroethene	16.45	130	6343	0.479	ng	98
48) 1,4-Dioxane	16.57	88	6011	0.528	ng	89
49) 2,2,4-Trimethylpentane...	16.52	57	33244	0.475	ng	99
50) Methyl Methacrylate	16.79	100	5377	0.998	ng	95
51) n-Heptane	16.88	71	7790	0.470	ng	99
52) cis-1,3-Dichloropropene	17.66	75	10842	0.453	ng	98
53) 4-Methyl-2-pentanone	17.80	58	7333	0.511	ng	91
54) trans-1,3-Dichloropropene	18.36	75	11151	0.509	ng	100
55) 1,1,2-Trichloroethane	18.61	97	6160	0.462	ng	98
58) Toluene	18.99	91	28640	0.484	ng	99
59) 2-Hexanone	19.40	43	19538	0.492	ng	97
60) Dibromochloromethane	19.53	129	7167	0.517	ng	93
61) 1,2-Dibromoethane	19.87	107	6714	0.470	ng	98
62) n-Butyl Acetate	20.20	43	22390	0.496	ng	99
63) n-Octane	20.28	57	7129	0.478	ng	100
64) Tetrachloroethene	20.46	166	6404	0.475	ng	100
65) Chlorobenzene	21.34	112	17302	0.484	ng	100
66) Ethylbenzene	21.82	91	32353	0.484	ng	98
67) m- & p-Xylenes	22.06	91	50569	0.938	ng	# 30
68) Bromoform	22.15	173	5337	0.471	ng	97
69) Styrene	22.51	104	18352	0.488	ng	98
70) o-Xylene	22.65	91	26471	0.488	ng	97
71) n-Nonane	22.91	43	17683	0.467	ng	93
72) 1,1,2,2-Tetrachloroethane	22.63	83	11841	0.496	ng	95
74) Cumene	23.41	105	31734	0.479	ng	97
75) alpha-Pinene	23.90	93	15763	0.450	ng	95
76) n-Propylbenzene	24.05	91	40346	0.474	ng	99
77) 3-Ethyltoluene	24.18	105	32540	0.519	ng	95
78) 4-Ethyltoluene	24.23	105	30506	0.480	ng	100
79) 1,3,5-Trimethylbenzene	24.32	105	26350	0.487	ng	100

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	12971	0.473	ng	97
81) 2-Ethyltoluene	24.57	105	31095	0.473	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	26353	0.488	ng	96
83) n-Decane	24.94	57	18126	0.506	ng	98
84) Benzyl Chloride	25.00	91	24206	0.520	ng	100
85) 1,3-Dichlorobenzene	25.03	146	12977	0.502	ng	98
86) 1,4-Dichlorobenzene	25.11	146	13901	0.506	ng	97
87) sec-Butylbenzene	25.17	105	35698	0.493	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	31753	0.493	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	27977	0.510	ng	100
90) 1,2-Dichlorobenzene	25.53	146	12508	0.501	ng	98
91) d-Limonene	25.53	68	11768	0.502	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	4075	0.510	ng	90
93) n-Undecane	26.46	57	18836	0.515	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	8410	0.533	ng	97
95) Naphthalene	27.74	128	33134	0.535	ng	93
96) n-Dodecane	27.70	57	20632	0.533	ng	95
97) Hexachlorobutadiene	28.15	225	5535	0.546	ng	100
98) Cyclohexanone	22.34	55	10843	0.402	ng	97
99) tert-Butylbenzene	24.83	119	25490	0.490	ng	97
100) n-Butylbenzene	25.86	91	30481	0.517	ng	98

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	253159	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.42	114	1287874	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	650609	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	554603	24.002	ng	-0.01
Spiked Amount	25.000		Recovery	=	96.00%	
57) Toluene-d8 (SS2)	18.85	98	1420867	25.196	ng	0.00
Spiked Amount	25.000		Recovery	=	100.80%	
73) Bromofluorobenzene (SS3)	23.24	174	366142	25.425	ng	0.00
Spiked Amount	25.000		Recovery	=	101.72%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.70	42	15729	0.803	ng	98
3) Dichlorodifluoromethan...	4.86	85	28962	0.889	ng	99
4) Chloromethane	5.18	50	19165	0.931	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	11280	0.884	ng	99
6) Vinyl Chloride	5.62	62	17901	0.889	ng	98
7) 1,3-Butadiene	5.89	54	14844	1.029	ng	95
8) Bromomethane	6.38	94	10788	1.167	ng	95
9) Chloroethane	6.71	64	10224	0.923	ng	92
10) Ethanol	7.12	45	54360	4.518	ng	98
11) Acetonitrile	7.42	41	31256	0.737	ng	99
12) Acrolein	7.59	56	8675	0.746	ng	98
13) Acetone	7.86	58	59842	4.351	ng	99
14) Trichlorofluoromethane	8.03	101	25722	0.909	ng	98
15) 2-Propanol (Isopropanol)	8.35	45	78074	1.717	ng	95
16) Acrylonitrile	8.58	53	19833	0.991	ng	100
17) 1,1-Dichloroethene	9.05	96	12813	1.005	ng	91
18) 2-Methyl-2-Propanol (t...	9.32	59	75842	1.947	ng	80
19) Methylene Chloride	9.25	84	13644	0.922	ng	99
20) 3-Chloro-1-propene (Al...	9.44	41	30907	1.293	ng	82
21) Trichlorotrifluoroethane	9.68	151	9982	0.961	ng	98
22) Carbon Disulfide	9.65	76	49774	0.977	ng	100
23) trans-1,2-Dichloroethene	10.68	61	21976	0.995	ng	99
24) 1,1-Dichloroethane	10.98	63	26037	0.946	ng	100
25) Methyl tert-Butyl Ether	11.24	73	39678	0.890	ng	100
26) Vinyl Acetate	11.28	86	12172	4.070	ng	# 63
27) 2-Butanone (MEK)	11.72	72	9933	0.997	ng	# 84
28) cis-1,2-Dichloroethene	12.24	61	20467	0.958	ng	96
29) Diisopropyl Ether	12.68	87	13497	1.117	ng	# 1
30) Ethyl Acetate	12.71	61	10334	1.998	ng	99
31) n-Hexane	12.58	57	26377	0.968	ng	95

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	23278	0.931	ng	100
34) Tetrahydrofuran (THF)	13.47	72	10036	0.854	ng #	89
35) Ethyl tert-Butyl Ether	13.49	87	16455	0.890	ng	99
36) 1,2-Dichloroethane	13.79	62	20046	0.910	ng	98
38) 1,1,1-Trichloroethane	14.17	97	21730	0.909	ng	96
39) Isopropyl Acetate	14.87	61	18933	1.921	ng #	82
40) 1-Butanol	14.95	56	31282	1.861	ng	83
41) Benzene	14.88	78	55682	0.883	ng	99
42) Carbon Tetrachloride	15.10	117	18312	0.914	ng	99
43) Cyclohexane	15.30	84	42338	1.901	ng	99
44) tert-Amyl Methyl Ether	15.89	73	42797	0.926	ng	98
45) 1,2-Dichloropropane	16.11	63	14488	0.946	ng	100
46) Bromodichloromethane	16.38	83	19155	0.984	ng	98
47) Trichloroethene	16.44	130	12738	0.969	ng	99
48) 1,4-Dioxane	16.57	88	11142	0.985	ng #	68
49) 2,2,4-Trimethylpentane...	16.52	57	66591	0.958	ng	97
50) Methyl Methacrylate	16.79	100	10587	1.978	ng	96
51) n-Heptane	16.89	71	15425	0.937	ng	99
52) cis-1,3-Dichloropropene	17.65	75	22102	0.930	ng	100
53) 4-Methyl-2-pentanone	17.80	58	14470	1.016	ng	94
54) trans-1,3-Dichloropropene	18.36	75	23424	1.078	ng	99
55) 1,1,2-Trichloroethane	18.61	97	12640	0.955	ng	96
58) Toluene	18.99	91	57012	0.977	ng	99
59) 2-Hexanone	19.40	43	39077	0.996	ng	99
60) Dibromochloromethane	19.54	129	14256	1.042	ng	99
61) 1,2-Dibromoethane	19.87	107	14117	1.001	ng	100
62) n-Butyl Acetate	20.20	43	44725	1.004	ng	99
63) n-Octane	20.28	57	13890	0.944	ng	97
64) Tetrachloroethene	20.47	166	12781	0.961	ng	97
65) Chlorobenzene	21.35	112	35691	1.012	ng	99
66) Ethylbenzene	21.82	91	64286	0.974	ng	100
67) m- & p-Xylenes	22.04	91	102993	1.935	ng #	30
68) Bromoform	22.16	173	10221	0.914	ng	96
69) Styrene	22.51	104	36918	0.995	ng	98
70) o-Xylene	22.65	91	52204	0.975	ng	100
71) n-Nonane	22.91	43	35568	0.951	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	23941	1.017	ng	98
74) Cumene	23.41	105	63375	0.970	ng	98
75) alpha-Pinene	23.90	93	32053	0.926	ng	96
76) n-Propylbenzene	24.05	91	82766	0.986	ng	98
77) 3-Ethyltoluene	24.18	105	62532	1.011	ng	99
78) 4-Ethyltoluene	24.23	105	63400	1.011	ng	100
79) 1,3,5-Trimethylbenzene	24.32	105	52731	0.987	ng	100

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	27052	1.000	ng	96
81) 2-Ethyltoluene	24.56	105	62808	0.968	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	54320	1.019	ng	99
83) n-Decane	24.94	57	36002	1.019	ng	99
84) Benzyl Chloride	25.00	91	50759	1.106	ng	97
85) 1,3-Dichlorobenzene	25.03	146	27203	1.066	ng	98
86) 1,4-Dichlorobenzene	25.11	146	27477	1.014	ng	100
87) sec-Butylbenzene	25.17	105	71023	0.994	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	62425	0.982	ng	97
89) 1,2,3-Trimethylbenzene	25.36	105	54604	1.008	ng	98
90) 1,2-Dichlorobenzene	25.53	146	25453	1.032	ng	99
91) d-Limonene	25.53	68	22906	0.991	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.07	157	9032	1.145	ng	96
93) n-Undecane	26.46	57	39335	1.089	ng	97
94) 1,2,4-Trichlorobenzene	27.59	180	18307	1.175	ng	98
95) Naphthalene	27.74	128	69383	1.134	ng	97
96) n-Dodecane	27.70	57	41338	1.082	ng	95
97) Hexachlorobutadiene	28.15	225	10594	1.059	ng	98
98) Cyclohexanone	22.34	55	21416	0.805	ng	99
99) tert-Butylbenzene	24.83	119	51340	1.000	ng	98
100) n-Butylbenzene	25.86	91	61539	1.058	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	249215	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1269404	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	640609	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	541276	23.796	ng	0.00
Spiked Amount	25.000		Recovery	=	95.20%	
57) Toluene-d8 (SS2)	18.86	98	1393939	25.104	ng	0.00
Spiked Amount	25.000		Recovery	=	100.40%	
73) Bromofluorobenzene (SS3)	23.24	174	369692	26.072	ng	0.00
Spiked Amount	25.000		Recovery	=	104.28%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	89432	4.636	ng	99
3) Dichlorodifluoromethan...	4.84	85	140828	4.390	ng	99
4) Chloromethane	5.15	50	84961	4.191	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	54919	4.370	ng	97
6) Vinyl Chloride	5.59	62	89033	4.491	ng	100
7) 1,3-Butadiene	5.87	54	73562	5.181	ng	98
8) Bromomethane	6.36	94	52677	5.786	ng	99
9) Chloroethane	6.69	64	52005	4.770	ng	95
10) Ethanol	7.11	45	258014	21.785	ng	100
11) Acetonitrile	7.37	41	150692	3.611	ng	99
12) Acrolein	7.57	56	44402	3.876	ng	99
13) Acetone	7.84	58	278483	20.568	ng	96
14) Trichlorofluoromethane	8.02	101	123504	4.435	ng	99
15) 2-Propanol (Isopropanol)	8.35	45	301287	6.731	ng	97
16) Acrylonitrile	8.57	53	100540	5.104	ng	100
17) 1,1-Dichloroethene	9.04	96	62068	4.946	ng	93
18) 2-Methyl-2-Propanol (t...	9.31	59	359931	9.384	ng	95
19) Methylene Chloride	9.24	84	65696	4.508	ng	99
20) 3-Chloro-1-propene (Al...	9.43	41	129259	5.493	ng	92
21) Trichlorotrifluoroethane	9.68	151	47871	4.683	ng	96
22) Carbon Disulfide	9.63	76	243057	4.846	ng	100
23) trans-1,2-Dichloroethene	10.68	61	107824	4.959	ng	99
24) 1,1-Dichloroethane	10.99	63	124688	4.604	ng	99
25) Methyl tert-Butyl Ether	11.23	73	197911	4.509	ng	99
26) Vinyl Acetate	11.28	86	44312	15.052	ng	# 69
27) 2-Butanone (MEK)	11.71	72	50182	5.115	ng	# 92
28) cis-1,2-Dichloroethene	12.24	61	102666	4.883	ng	99
29) Diisopropyl Ether	12.68	87	64732	5.444	ng	# 1
30) Ethyl Acetate	12.71	61	52338	10.281	ng	97
31) n-Hexane	12.58	57	123098	4.588	ng	98

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	113521	4.612	ng	99
34) Tetrahydrofuran (THF)	13.46	72	47151	4.075	ng	95
35) Ethyl tert-Butyl Ether	13.48	87	77046	4.234	ng	99
36) 1,2-Dichloroethane	13.80	62	97747	4.510	ng	97
38) 1,1,1-Trichloroethane	14.18	97	104481	4.435	ng	98
39) Isopropyl Acetate	14.86	61	94088	9.685	ng	# 84
40) 1-Butanol	14.92	56	150422	9.077	ng	82
41) Benzene	14.88	78	266073	4.281	ng	99
42) Carbon Tetrachloride	15.11	117	92233	4.673	ng	99
43) Cyclohexane	15.30	84	209843	9.557	ng	98
44) tert-Amyl Methyl Ether	15.89	73	204750	4.496	ng	100
45) 1,2-Dichloropropane	16.11	63	69671	4.617	ng	100
46) Bromodichloromethane	16.38	83	93085	4.854	ng	99
47) Trichloroethene	16.45	130	62720	4.839	ng	98
48) 1,4-Dioxane	16.56	88	55737	5.001	ng	# 73
49) 2,2,4-Trimethylpentane...	16.52	57	325558	4.752	ng	96
50) Methyl Methacrylate	16.79	100	53436	10.131	ng	96
51) n-Heptane	16.88	71	74028	4.561	ng	98
52) cis-1,3-Dichloropropene	17.65	75	108231	4.619	ng	99
53) 4-Methyl-2-pentanone	17.79	58	70345	5.011	ng	97
54) trans-1,3-Dichloropropene	18.36	75	114007	5.321	ng	99
55) 1,1,2-Trichloroethane	18.61	97	60472	4.636	ng	100
58) Toluene	18.99	91	270680	4.712	ng	99
59) 2-Hexanone	19.39	43	192690	4.989	ng	99
60) Dibromochloromethane	19.53	129	70986	5.272	ng	98
61) 1,2-Dibromoethane	19.87	107	69321	4.990	ng	98
62) n-Butyl Acetate	20.20	43	218998	4.994	ng	100
63) n-Octane	20.28	57	67291	4.644	ng	97
64) Tetrachloroethene	20.47	166	59893	4.573	ng	98
65) Chlorobenzene	21.35	112	168463	4.853	ng	99
66) Ethylbenzene	21.82	91	312047	4.800	ng	100
67) m- & p-Xylenes	22.04	91	487391	9.302	ng	# 30
68) Bromoform	22.15	173	54281	4.930	ng	100
69) Styrene	22.51	104	183096	5.011	ng	97
70) o-Xylene	22.66	91	252696	4.794	ng	98
71) n-Nonane	22.91	43	166786	4.529	ng	98
72) 1,1,2,2-Tetrachloroethane	22.63	83	115016	4.963	ng	100
74) Cumene	23.41	105	304404	4.730	ng	99
75) alpha-Pinene	23.90	93	157830	4.632	ng	98
76) n-Propylbenzene	24.05	91	393830	4.766	ng	99
77) 3-Ethyltoluene	24.18	105	312687	5.133	ng	99
78) 4-Ethyltoluene	24.23	105	300258	4.865	ng	99
79) 1,3,5-Trimethylbenzene	24.32	105	256223	4.871	ng	100

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

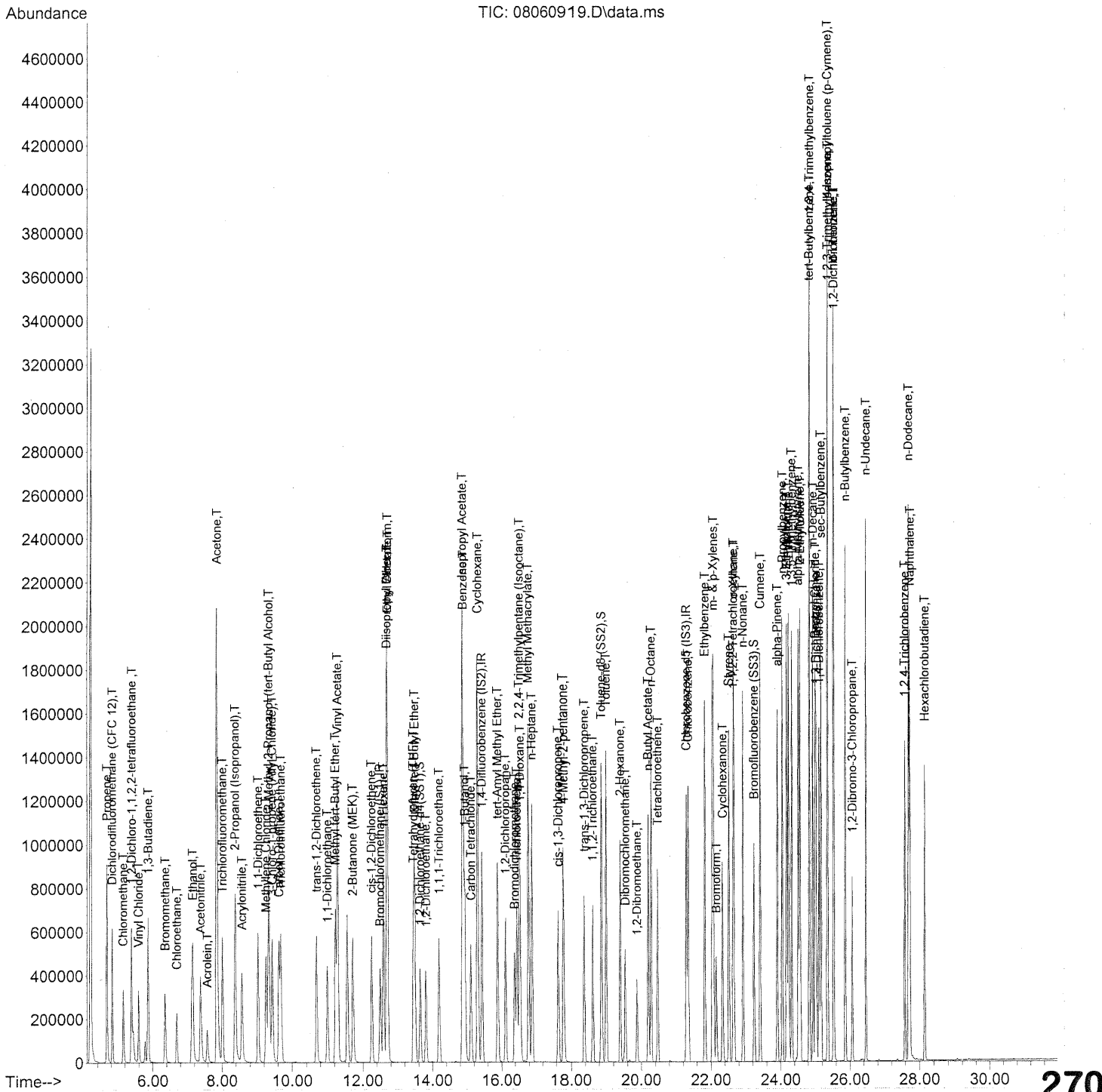
Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	137848	5.174	ng	98
81) 2-Ethyltoluene	24.56	105	305024	4.773	ng	100
82) 1,2,4-Trimethylbenzene	24.83	105	257449	4.905	ng	99
83) n-Decane	24.94	57	171862	4.941	ng	99
84) Benzyl Chloride	25.01	91	258427	5.717	ng	99
85) 1,3-Dichlorobenzene	25.03	146	131275	5.227	ng	97
86) 1,4-Dichlorobenzene	25.11	146	133153	4.993	ng	100
87) sec-Butylbenzene	25.17	105	345740	4.915	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	305963	4.889	ng	98
89) 1,2,3-Trimethylbenzene	25.36	105	265359	4.975	ng	98
90) 1,2-Dichlorobenzene	25.53	146	123261	5.077	ng	100
91) d-Limonene	25.53	68	113934	5.005	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	47123	6.066	ng	96
93) n-Undecane	26.46	57	184521	5.189	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	91111	5.938	ng	99
95) Naphthalene	27.73	128	353074	5.862	ng	100
96) n-Dodecane	27.70	57	188594	5.016	ng	99
97) Hexachlorobutadiene	28.15	225	51370	5.213	ng	100
98) Cyclohexanone	22.33	55	103876	3.963	ng	99
99) tert-Butylbenzene	24.83	119	245043	4.847	ng	99
100) n-Butylbenzene	25.86	91	301669	5.270	ng	100

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

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060919.D
Acq On : 6 Aug 2009 15:18
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-07200902/S20-07310901
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	207495	25.000	ng	0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1056146	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	528644	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.64	65	447374	23.622	ng	0.00
Spiked Amount	25.000		Recovery	=	94.48%	
57) Toluene-d8 (SS2)	18.86	98	1150944	25.118	ng	0.00
Spiked Amount	25.000		Recovery	=	100.48%	
73) Bromofluorobenzene (SS3)	23.24	174	306340	26.180	ng	0.00
Spiked Amount	25.000		Recovery	=	104.72%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	397150	24.727	ng	100
3) Dichlorodifluoromethan...	4.83	85	635550	23.796	ng	99
4) Chloromethane	5.15	50	453590	26.875	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	260375	24.887	ng	98
6) Vinyl Chloride	5.59	62	431248	26.129	ng	98
7) 1,3-Butadiene	5.87	54	374047	31.641	ng	98
8) Bromomethane	6.35	94	273614	36.099	ng	99
9) Chloroethane	6.69	64	246290	27.134	ng	97
10) Ethanol	7.15	45	1215448	123.257	ng	100
11) Acetonitrile	7.38	41	708708	20.399	ng	100
12) Acrolein	7.57	56	210551	22.077	ng	98
13) Acetone	7.85	58	1259513	111.728	ng	97
14) Trichlorofluoromethane	8.01	101	614629	26.506	ng	100
15) 2-Propanol (Isopropanol)	8.38	45	1639705	43.999	ng	99
16) Acrylonitrile	8.57	53	497820	30.352	ng	99
17) 1,1-Dichloroethene	9.03	96	310280	29.696	ng	93
18) 2-Methyl-2-Propanol (t...	9.34	59	1766301	55.312	ng	98
19) Methylene Chloride	9.26	84	317656	26.180	ng	98
20) 3-Chloro-1-propene (Al...	9.43	41	596921	30.468	ng	99
21) Trichlorotrifluoroethane	9.68	151	242878	28.535	ng	100
22) Carbon Disulfide	9.63	76	1185465	28.386	ng	98
23) trans-1,2-Dichloroethene	10.69	61	536758	29.651	ng	99
24) 1,1-Dichloroethane	10.99	63	626914	27.802	ng	100
25) Methyl tert-Butyl Ether	11.23	73	988001	27.035	ng	99
26) Vinyl Acetate	11.29	86	232023	94.663	ng	# 94
27) 2-Butanone (MEK)	11.71	72	244752	29.962	ng	99
28) cis-1,2-Dichloroethene	12.25	61	508498	29.050	ng	99
29) Diisopropyl Ether	12.68	87	316984	32.016	ng	# 1
30) Ethyl Acetate	12.71	61	248217	58.562	ng	99
31) n-Hexane	12.59	57	594541	26.616	ng	99

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	541847	26.440	ng	100
34) Tetrahydrofuran (THF)	13.45	72	234041	24.295	ng	95
35) Ethyl tert-Butyl Ether	13.48	87	375069	24.759	ng	99
36) 1,2-Dichloroethane	13.80	62	490990	27.208	ng	98
38) 1,1,1-Trichloroethane	14.19	97	521245	26.595	ng	98
39) Isopropyl Acetate	14.87	61	456771	56.511	ng	# 86
40) 1-Butanol	14.93	56	723046	52.443	ng	80
41) Benzene	14.88	78	1276338	24.685	ng	99
42) Carbon Tetrachloride	15.11	117	465095	28.320	ng	98
43) Cyclohexane	15.31	84	1000496	54.769	ng	99
44) tert-Amyl Methyl Ether	15.89	73	989673	26.122	ng	99
45) 1,2-Dichloropropane	16.12	63	347675	27.694	ng	99
46) Bromodichloromethane	16.39	83	465949	29.201	ng	98
47) Trichloroethene	16.45	130	316970	29.394	ng	99
48) 1,4-Dioxane	16.55	88	266033	28.691	ng	# 71
49) 2,2,4-Trimethylpentane...	16.53	57	1568435	27.515	ng	96
50) Methyl Methacrylate	16.79	100	266630	60.760	ng	100
51) n-Heptane	16.89	71	366787	27.159	ng	99
52) cis-1,3-Dichloropropene	17.66	75	541590	27.780	ng	99
53) 4-Methyl-2-pentanone	17.79	58	350647	30.023	ng	98
54) trans-1,3-Dichloropropene	18.37	75	568419	31.884	ng	98
55) 1,1,2-Trichloroethane	18.61	97	299989	27.639	ng	98
58) Toluene	18.99	91	1326296	27.980	ng	99
59) 2-Hexanone	19.39	43	922020	28.929	ng	99
60) Dibromochloromethane	19.54	129	363307	32.695	ng	99
61) 1,2-Dibromoethane	19.87	107	346018	30.184	ng	99
62) n-Butyl Acetate	20.20	43	1069244	29.546	ng	99
63) n-Octane	20.28	57	322871	27.000	ng	96
64) Tetrachloroethene	20.47	166	306228	28.331	ng	99
65) Chlorobenzene	21.35	112	830316	28.987	ng	100
66) Ethylbenzene	21.83	91	1510329	28.156	ng	99
67) m- & p-Xylenes	22.06	91	2364755	54.690	ng	99
68) Bromoform	22.16	173	284337	31.297	ng	99
69) Styrene	22.52	104	922923	30.607	ng	99
70) o-Xylene	22.66	91	1212719	27.879	ng	98
71) n-Nonane	22.92	43	783849	25.792	ng	99
72) 1,1,2,2-Tetrachloroethane	22.64	83	553928	28.964	ng	100
74) Cumene	23.41	105	1485450	27.968	ng	99
75) alpha-Pinene	23.91	93	765795	27.237	ng	100
76) n-Propylbenzene	24.05	91	1894473	27.785	ng	100
77) 3-Ethyltoluene	24.18	105	1496922	29.775	ng	100
78) 4-Ethyltoluene	24.23	105	1487030	29.196	ng	99
79) 1,3,5-Trimethylbenzene	24.33	105	1242874	28.633	ng	99

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

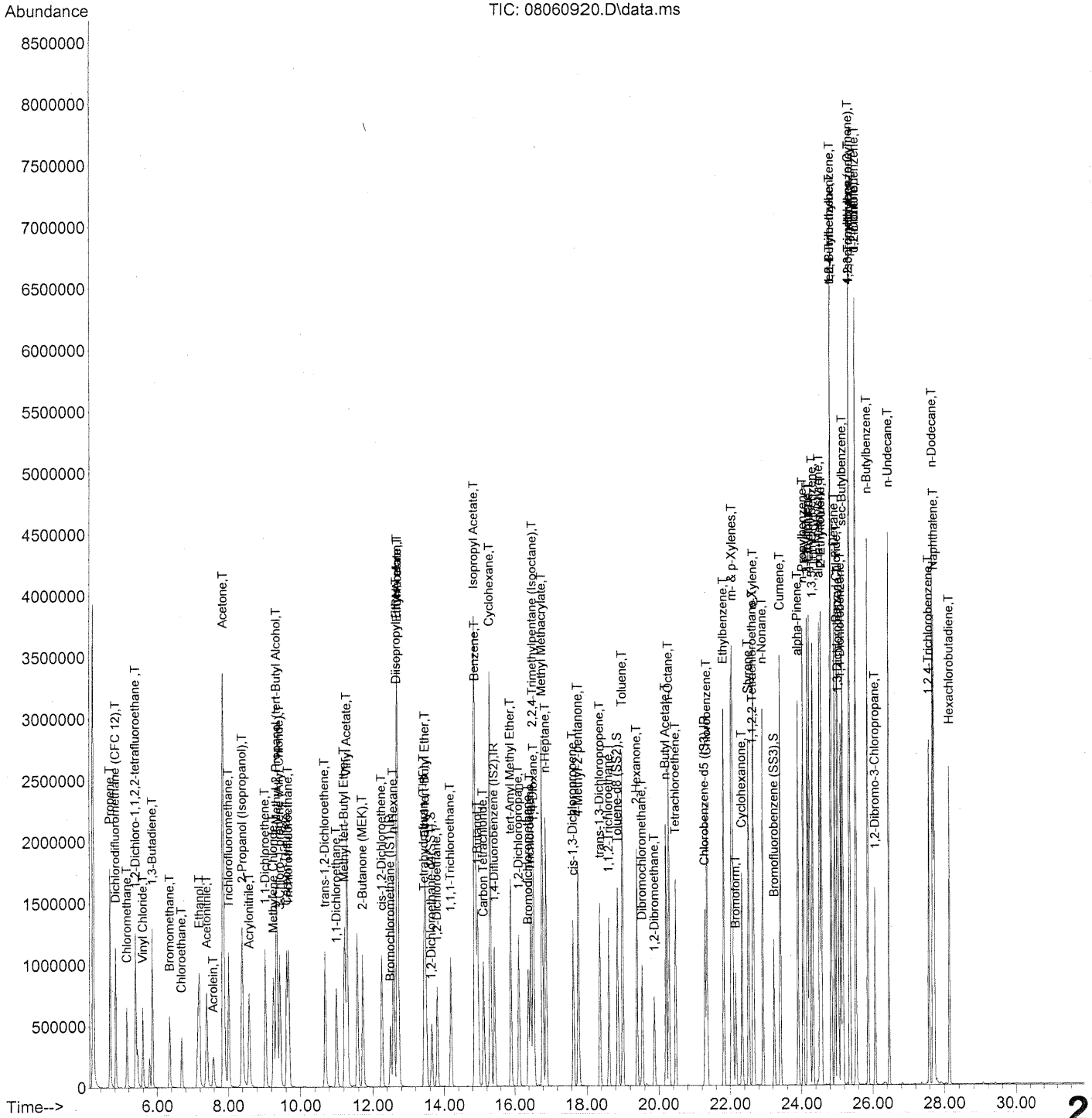
Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	682695	31.049	ng	99
81) 2-Ethyltoluene	24.57	105	1482611	28.115	ng	99
82) 1,2,4-Trimethylbenzene	24.84	105	1242291	28.679	ng	100
83) n-Decane	24.94	57	804056	28.011	ng	100
84) Benzyl Chloride	25.01	91	1277690	34.250	ng	100
85) 1,3-Dichlorobenzene	25.03	146	652647	31.489	ng	97
86) 1,4-Dichlorobenzene	25.11	146	668115	30.359	ng	99
87) sec-Butylbenzene	25.17	105	1672528	28.809	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1479621	28.648	ng	100
89) 1,2,3-Trimethylbenzene	25.36	105	1274600	28.960	ng	97
90) 1,2-Dichlorobenzene	25.54	146	611625	30.525	ng	99
91) d-Limonene	25.53	68	550190	29.286	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.07	157	236587	36.905	ng	94
93) n-Undecane	26.46	57	859590	29.294	ng	100
94) 1,2,4-Trichlorobenzene	27.59	180	463024	36.569	ng	100
95) Naphthalene	27.74	128	1702428	34.252	ng	100
96) n-Dodecane	27.70	57	872418	28.116	ng	99
97) Hexachlorobutadiene	28.15	225	262946	32.338	ng	99
98) Cyclohexanone	22.33	55	505166	23.356	ng	99
99) tert-Butylbenzene	24.83	119	1185720	28.423	ng	99
100) n-Butylbenzene	25.87	91	1445418	30.597	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) Bromochloromethane (IS1)	12.50	130	246064	25.000	ng	0.02	
37) 1,4-Difluorobenzene (IS2)	15.44	114	1247385	25.000	ng	0.00	
56) Chlorobenzene-d5 (IS3)	21.29	82	628572	25.000	ng	0.00	
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4 (...)	13.65	65	527588	23.491	ng	0.01	
Spiked Amount	25.000		Recovery	=	93.96%		
57) Toluene-d8 (SS2)	18.86	98	1375416	25.245	ng	0.00	
Spiked Amount	25.000		Recovery	=	100.96%		
73) Bromofluorobenzene (SS3)	23.25	174	373273	26.829	ng	0.00	
Spiked Amount	25.000		Recovery	=	107.32%		
Target Compounds							Qvalue
2) Propene	4.66	42	766697	40.253	ng		99
3) Dichlorodifluoromethan...	4.82	85	1206456	38.091	ng		99
4) Chloromethane	5.14	50	847645	42.351	ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	513921	41.422	ng		99
6) Vinyl Chloride	5.59	62	848331	43.343	ng		98
7) 1,3-Butadiene	5.87	54	730169	52.084	ng		99
8) Bromomethane	6.35	94	491871	54.723	ng		99
9) Chloroethane	6.69	64	469575	43.625	ng		97
10) Ethanol	7.18	45	2326754	198.970	ng		100
11) Acetonitrile	7.39	41	1338822	32.495	ng		100
12) Acrolein	7.58	56	402755	35.611	ng		97
13) Acetone	7.86	58	2311019	172.872	ng		95
14) Trichlorofluoromethane	8.01	101	1159734	42.175	ng		100
15) 2-Propanol (Isopropanol)	8.40	45	2875108	65.056	ng		100
16) Acrylonitrile	8.58	53	940966	48.379	ng		98
17) 1,1-Dichloroethene	9.03	96	590850	47.685	ng		92
18) 2-Methyl-2-Propanol (t...	9.35	59	3260768	86.106	ng		99
19) Methylene Chloride	9.26	84	606273	42.136	ng		98
20) 3-Chloro-1-propene (Al...	9.44	41	1134104	48.813	ng		100
21) Trichlorotrifluoroethane	9.68	151	470831	46.646	ng		99
22) Carbon Disulfide	9.63	76	2221081	44.848	ng		98
23) trans-1,2-Dichloroethene	10.69	61	1011038	47.097	ng		98
24) 1,1-Dichloroethane	11.00	63	1184763	44.306	ng		99
25) Methyl tert-Butyl Ether	11.23	73	1897731	43.789	ng		99
26) Vinyl Acetate	11.30	86	408724	140.617	ng		100
27) 2-Butanone (MEK)	11.72	72	462913	47.786	ng		99
28) cis-1,2-Dichloroethene	12.26	61	959785	46.237	ng		98
29) Diisopropyl Ether	12.69	87	594750	50.655	ng	#	1
30) Ethyl Acetate	12.71	61	462477	92.010	ng		99
31) n-Hexane	12.59	57	1123585	42.416	ng		98

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.71	83	1005869	41.389	ng	99
34) Tetrahydrofuran (THF)	13.45	72	435280	38.102	ng	97
35) Ethyl tert-Butyl Ether	13.49	87	712110	39.639	ng	97
36) 1,2-Dichloroethane	13.81	62	932796	43.588	ng	98
38) 1,1,1-Trichloroethane	14.19	97	995605	43.010	ng	98
39) Isopropyl Acetate	14.87	61	855760	89.642	ng	# 86
40) 1-Butanol	14.96	56	1373976	84.377	ng	# 79
41) Benzene	14.89	78	2375406	38.898	ng	99
42) Carbon Tetrachloride	15.12	117	885200	45.637	ng	99
43) Cyclohexane	15.31	84	1889680	87.585	ng	98
44) tert-Amyl Methyl Ether	15.89	73	1834473	40.996	ng	99
45) 1,2-Dichloropropane	16.12	63	658137	44.386	ng	99
46) Bromodichloromethane	16.39	83	892711	47.368	ng	99
47) Trichloroethene	16.45	130	608434	47.772	ng	98
48) 1,4-Dioxane	16.55	88	507842	46.373	ng	# 75
49) 2,2,4-Trimethylpentane...	16.53	57	2886330	42.872	ng	97
50) Methyl Methacrylate	16.80	100	522781	100.868	ng	93
51) n-Heptane	16.89	71	684826	42.934	ng	99
52) cis-1,3-Dichloropropene	17.66	75	1039036	45.124	ng	99
53) 4-Methyl-2-pentanone	17.80	58	654840	47.472	ng	99
54) trans-1,3-Dichloropropene	18.37	75	1094561	51.984	ng	99
55) 1,1,2-Trichloroethane	18.61	97	577490	45.049	ng	97
58) Toluene	19.00	91	2525620	44.811	ng	98
59) 2-Hexanone	19.40	43	1735363	45.792	ng	99
60) Dibromochloromethane	19.54	129	703485	53.244	ng	98
61) 1,2-Dibromoethane	19.88	107	661208	48.510	ng	98
62) n-Butyl Acetate	20.20	43	2024198	47.042	ng	99
63) n-Octane	20.28	57	605076	42.555	ng	96
64) Tetrachloroethene	20.48	166	601947	46.837	ng	99
65) Chlorobenzene	21.36	112	1587286	46.604	ng	100
66) Ethylbenzene	21.83	91	2858886	44.823	ng	99
67) m- & p-Xylenes	22.07	91	4460386	86.756	ng	98
68) Bromoform	22.16	173	558777	51.727	ng	99
69) Styrene	22.52	104	1767058	49.286	ng	99
70) o-Xylene	22.66	91	2294449	44.361	ng	97
71) n-Nonane	22.92	43	1444078	39.962	ng	98
72) 1,1,2,2-Tetrachloroethane	22.64	83	1043616	45.894	ng	100
74) Cumene	23.42	105	2823456	44.709	ng	100
75) alpha-Pinene	23.91	93	1462451	43.746	ng	99
76) n-Propylbenzene	24.06	91	3551148	43.802	ng	99
77) 3-Ethyltoluene	24.18	105	2884181	48.248	ng	99
78) 4-Ethyltoluene	24.24	105	2788015	46.037	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	2362085	45.766	ng	99

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

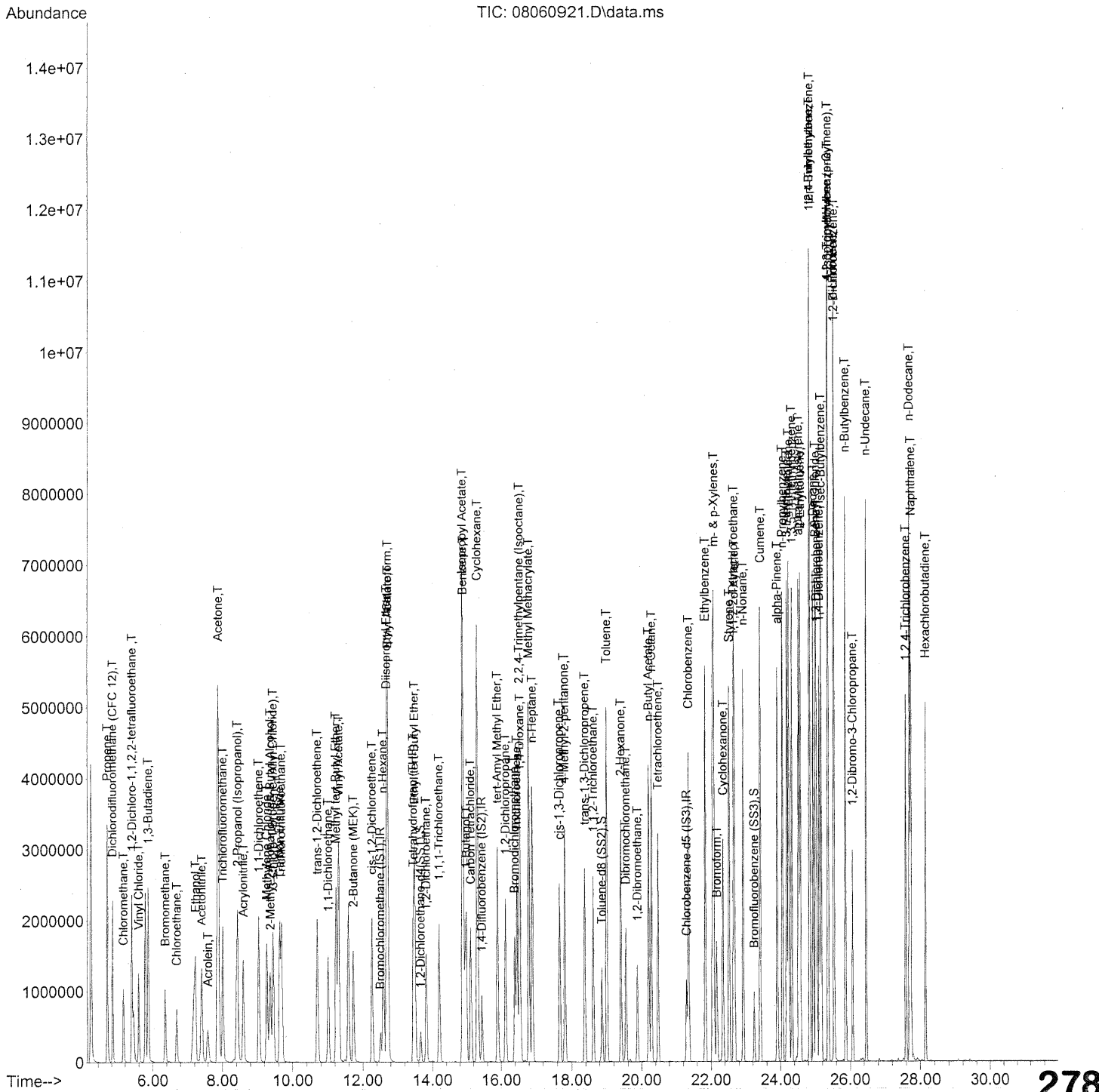
Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.52	118	1322010	50.567	ng	96
81) 2-Ethyltoluene	24.57	105	2813751	44.875	ng	99
82) 1,2,4-Trimethylbenzene	24.84	105	2342546	45.481	ng	99
83) n-Decane	24.94	57	1477979	43.303	ng	99
84) Benzyl Chloride	25.01	91	2418762	54.530	ng	99
85) 1,3-Dichlorobenzene	25.04	146	1268117	51.457	ng	97
86) 1,4-Dichlorobenzene	25.11	146	1304869	49.866	ng	99
87) sec-Butylbenzene	25.17	105	3150159	45.635	ng	99
88) 4-Isopropyltoluene (p-...	25.36	119	2788519	45.407	ng	99
89) 1,2,3-Trimethylbenzene	25.37	105	2406323	45.982	ng	97
90) 1,2-Dichlorobenzene	25.54	146	1179498	49.508	ng	100
91) d-Limonene	25.54	68	1035586	46.360	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	460773	60.449	ng	91
93) n-Undecane	26.46	57	1584968	45.428	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	910868	60.503	ng	99
95) Naphthalene	27.74	128	3285610	55.597	ng	99
96) n-Dodecane	27.70	57	1632372	44.244	ng	99
97) Hexachlorobutadiene	28.15	225	522278	54.021	ng	99
98) Cyclohexanone	22.34	55	957787	37.242	ng	98
99) tert-Butylbenzene	24.84	119	2258738	45.537	ng	99
100) n-Butylbenzene	25.87	91	2706705	48.188	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.51	130	204063	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.44	114	1040695	25.000	ng	0.01
56) Chlorobenzene-d5 (IS3)	21.30	82	521975	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.66	65	435176	23.365	ng	0.02
Spiked Amount	25.000		Recovery	=	93.44%	
57) Toluene-d8 (SS2)	18.86	98	1136569	25.121	ng	0.00
Spiked Amount	25.000		Recovery	=	100.48%	
73) Bromofluorobenzene (SS3)	23.25	174	310567	26.881	ng	0.00
Spiked Amount	25.000		Recovery	=	107.52%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	1483597	93.924	ng	99
3) Dichlorodifluoromethan...	4.83	85	2379344	90.583	ng	99
4) Chloromethane	5.15	50	1392812	83.913	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	1008644	98.029	ng	98
6) Vinyl Chloride	5.59	62	1677099	103.322	ng	98
7) 1,3-Butadiene	5.87	54	1425350	122.599	ng	98
8) Bromomethane	6.36	94	914093	122.628	ng	99
9) Chloroethane	6.70	64	916786	102.702	ng	98
10) Ethanol	7.23	45	4377562	451.390	ng	100
11) Acetonitrile	7.42	41	2583362	75.607	ng	100
12) Acrolein	7.59	56	784600	83.651	ng	96
13) Acetone	7.89	58	4244786	382.878	ng	87
14) Trichlorofluoromethane	8.02	101	2210255	96.921	ng	99
15) 2-Propanol (Isopropanol)	8.43	45	5177262	141.260	ng	100
16) Acrylonitrile	8.60	53	1796721	111.390	ng	97
17) 1,1-Dichloroethene	9.04	96	1160669	112.953	ng	90
18) 2-Methyl-2-Propanol (t...	9.37	59	2345913	74.698	ng	100
19) Methylene Chloride	9.27	84	1184348	99.253	ng	96
20) 3-Chloro-1-propene (Al...	9.45	41	2146772	111.416	ng	98
21) Trichlorotrifluoroethane	9.68	151	916963	109.542	ng	96
22) Carbon Disulfide	9.63	76	4236854	103.158	ng	98
23) trans-1,2-Dichloroethene	10.70	61	1929408	108.376	ng	96
24) 1,1-Dichloroethane	11.01	63	2255773	101.720	ng	100
25) Methyl tert-Butyl Ether	11.23	73	3661547	101.878	ng	99
26) Vinyl Acetate	11.31	86	640109	265.549	ng	# 93
27) 2-Butanone (MEK)	11.73	72	687553	85.584	ng	97
28) cis-1,2-Dichloroethene	12.27	61	1822976	105.896	ng	97
29) Diisopropyl Ether	12.70	87	1137931	116.867	ng	# 1
30) Ethyl Acetate	12.73	61	853386	204.726	ng	100
31) n-Hexane	12.59	57	2161223	98.379	ng	99

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.72	83	1880936	93.325	ng	100
34) Tetrahydrofuran (THF)	13.45	72	810456	85.544	ng	98
35) Ethyl tert-Butyl Ether	13.50	87	1363054	91.490	ng	96
36) 1,2-Dichloroethane	13.82	62	1754433	98.856	ng	97
38) 1,1,1-Trichloroethane	14.20	97	1846555	95.614	ng	98
39) Isopropyl Acetate	14.88	61	1588242	199.413	ng	95
40) 1-Butanol	14.99	56	2511497	184.865	ng	# 77
41) Benzene	14.90	78	4433680	87.021	ng	100
42) Carbon Tetrachloride	15.12	117	1694678	104.722	ng	99
43) Cyclohexane	15.32	84	3585086	199.167	ng	97
44) tert-Amyl Methyl Ether	15.90	73	3367820	90.211	ng	99
45) 1,2-Dichloropropane	16.13	63	1250257	101.067	ng	99
46) Bromodichloromethane	16.40	83	1669484	106.178	ng	99
47) Trichloroethene	16.47	130	1192304	112.208	ng	99
48) 1,4-Dioxane	16.56	88	940853	102.975	ng	# 76
49) 2,2,4-Trimethylpentane...	16.54	57	5320898	94.731	ng	97
50) Methyl Methacrylate	16.81	100	995395	230.200	ng	# 90
51) n-Heptane	16.91	71	1295628	97.360	ng	98
52) cis-1,3-Dichloropropene	17.67	75	1960789	102.068	ng	99
53) 4-Methyl-2-pentanone	17.80	58	1240802	107.815	ng	100
54) trans-1,3-Dichloropropene	18.38	75	2068198	117.733	ng	99
55) 1,1,2-Trichloroethane	18.62	97	1112067	103.980	ng	96
58) Toluene	19.00	91	4768847	101.891	ng	98
59) 2-Hexanone	19.41	43	3205631	101.863	ng	97
60) Dibromochloromethane	19.54	129	1359408	123.901	ng	98
61) 1,2-Dibromoethane	19.88	107	1277917	112.901	ng	99
62) n-Butyl Acetate	20.21	43	4015589	112.379	ng	98
63) n-Octane	20.29	57	1130161	95.715	ng	95
64) Tetrachloroethene	20.48	166	1184412	110.979	ng	99
65) Chlorobenzene	21.36	112	3039056	107.452	ng	100
66) Ethylbenzene	21.84	91	5357238	101.146	ng	97
67) m- & p-Xylenes	22.08	91	8307914	194.593	ng	96
68) Bromoform	22.17	173	1108833	123.609	ng	99
69) Styrene	22.53	104	3401279	114.239	ng	98
70) o-Xylene	22.67	91	4304194	100.212	ng	96
71) n-Nonane	22.93	43	2656292	88.519	ng	97
72) 1,1,2,2-Tetrachloroethane	22.65	83	1997850	105.799	ng	100
74) Cumene	23.42	105	5281477	100.712	ng	99
75) alpha-Pinene	23.91	93	2764527	99.583	ng	98
76) n-Propylbenzene	24.06	91	6477041	96.207	ng	97
77) 3-Ethyltoluene	24.19	105	5409334	108.970	ng	98
78) 4-Ethyltoluene	24.25	105	5142381	102.255	ng	95
79) 1,3,5-Trimethylbenzene	24.34	105	4445745	103.729	ng	95

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

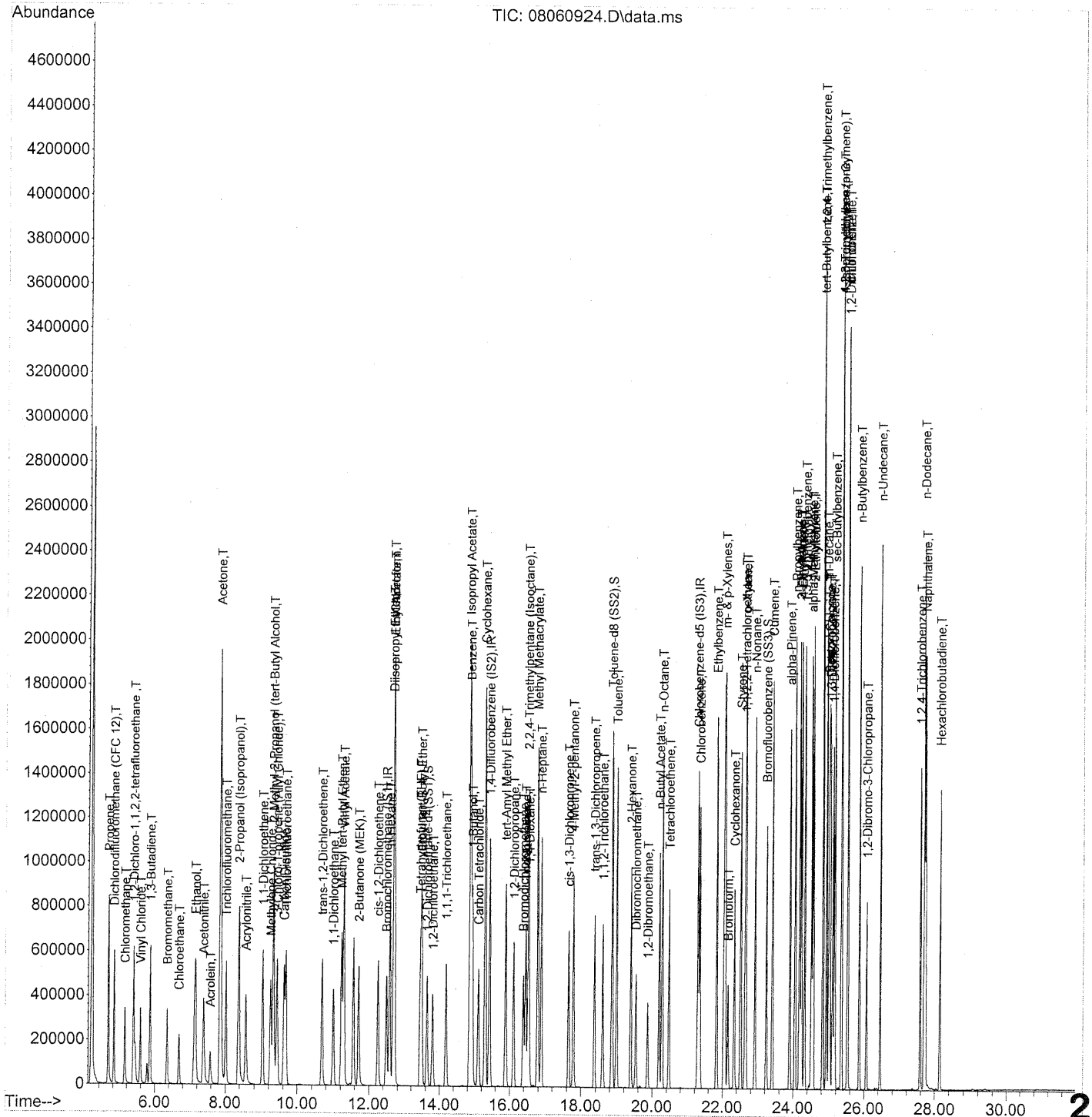
Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.53	118	2536487	116.834	ng	96
81) 2-Ethyltoluene	24.58	105	5229998	100.443	ng	97
82) 1,2,4-Trimethylbenzene	24.85	105	4275494	99.962	ng	98
83) n-Decane	24.95	57	2704263	95.412	ng	98
84) Benzyl Chloride	25.02	91	4499020	122.142	ng	97
85) 1,3-Dichlorobenzene	25.05	146	2490794	121.712	ng	97
86) 1,4-Dichlorobenzene	25.13	146	2542028	116.984	ng	98
87) sec-Butylbenzene	25.18	105	5783982	100.902	ng	98
88) 4-Isopropyltoluene (p-...	25.37	119	5010569	98.251	ng	99
89) 1,2,3-Trimethylbenzene	25.37	105	4359650	100.320	ng	95
90) 1,2-Dichlorobenzene	25.55	146	2206686	111.538	ng	100
91) d-Limonene	25.54	68	1890339	101.906	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	907634	143.389	ng	86
93) n-Undecane	26.47	57	2880684	99.426	ng	99
94) 1,2,4-Trichlorobenzene	27.60	180	1811250	144.878	ng	100
95) Naphthalene	27.74	128	6139171	125.097	ng	98
96) n-Dodecane	27.70	57	2961251	96.654	ng	98
97) Hexachlorobutadiene	28.15	225	1052824	131.135	ng	99
98) Cyclohexanone	22.35	55	1779789	83.337	ng	98
99) tert-Butylbenzene	24.85	119	4145655	100.646	ng	98
100) n-Butylbenzene	25.87	91	4947974	106.080	ng	97

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	238664	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1224547	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	614774	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.64	65	510896	24.629	ng	-0.02
Spiked Amount	25.000		Recovery	=	98.52%	
57) Toluene-d8 (SS2)	18.86	98	1345950	25.056	ng	0.00
Spiked Amount	25.000		Recovery	=	100.24%	
73) Bromofluorobenzene (SS3)	23.24	174	365031	25.768	ng	0.00
Spiked Amount	25.000		Recovery	=	103.08%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	372783	22.762	ng	99
3) Dichlorodifluoromethan...	4.83	85	610303	22.800	ng	99
4) Chloromethane	5.15	50	470357	26.153	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	266041	24.462	ng	98
6) Vinyl Chloride	5.59	62	440187	25.475	ng	98
7) 1,3-Butadiene	5.87	54	341677	27.589	ng	98
8) Bromomethane	6.35	94	287643	27.346	ng	99
9) Chloroethane	6.69	64	244762	24.371	ng	98
10) Ethanol	7.15	45	1296320	124.871	ng	100
11) Acetonitrile	7.38	41	687211	22.604	ng	100
12) Acrolein	7.58	56	203458	25.747	ng	98
13) Acetone	7.85	58	1224977	125.059	ng	98
14) Trichlorofluoromethane	8.01	101	586848	24.249	ng	100
15) 2-Propanol (Isopropanol)	8.38	45	1711755	44.469	ng	100
16) Acrylonitrile	8.57	53	479431	27.089	ng	99
17) 1,1-Dichloroethene	9.03	96	310330	27.616	ng	92
18) 2-Methyl-2-Propanol (t...	9.33	59	1753114	51.311	ng	98
19) Methylene Chloride	9.26	84	314029	23.873	ng	98
20) 3-Chloro-1-propene (Al...	9.43	41	592052	23.348	ng	99
21) Trichlorotrifluoroethane	9.68	151	249618	28.368	ng	98
22) Carbon Disulfide	9.63	76	1135664	24.487	ng	99
23) trans-1,2-Dichloroethene	10.69	61	514272	25.864	ng	97
24) 1,1-Dichloroethane	11.00	63	617936	25.628	ng	99
25) Methyl tert-Butyl Ether	11.23	73	950000	25.633	ng	100
26) Vinyl Acetate	11.30	86	177094	88.842	ng	# 94
27) 2-Butanone (MEK)	11.71	72	233396	26.390	ng	98
28) cis-1,2-Dichloroethene	12.26	61	497051	26.856	ng	98
29) Diisopropyl Ether	12.68	87	313290	26.470	ng	# 1
30) Ethyl Acetate	12.71	61	234351	50.865	ng	100
31) n-Hexane	12.59	57	571801	24.261	ng	98

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Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	539974	26.023	ng	100
34) Tetrahydrofuran (THF)	13.45	72	224798	23.845	ng	97
35) Ethyl tert-Butyl Ether	13.49	87	370406	24.192	ng	97
36) 1,2-Dichloroethane	13.80	62	484412	25.544	ng	98
38) 1,1,1-Trichloroethane	14.19	97	519036	24.987	ng	98
39) Isopropyl Acetate	14.87	61	451344	49.686	ng	# 86
40) 1-Butanol	14.94	56	736605	46.349	ng	81
41) Benzene	14.89	78	1265289	23.502	ng	99
42) Carbon Tetrachloride	15.11	117	450418	26.249	ng	100
43) Cyclohexane	15.31	84	972612	49.322	ng	98
44) tert-Amyl Methyl Ether	15.89	73	971883	24.038	ng	100
45) 1,2-Dichloropropane	16.12	63	344710	25.493	ng	100
46) Bromodichloromethane	16.39	83	451868	25.469	ng	99
47) Trichloroethene	16.45	130	316605	26.073	ng	98
48) 1,4-Dioxane	16.55	88	267355	25.984	ng	# 75
49) 2,2,4-Trimethylpentane...	16.53	57	1523182	24.019	ng	97
50) Methyl Methacrylate	16.79	100	272103	54.901	ng	95
51) n-Heptane	16.89	71	350866	24.283	ng	99
52) cis-1,3-Dichloropropene	17.66	75	537674	23.993	ng	99
53) 4-Methyl-2-pentanone	17.79	58	336616	26.015	ng	99
54) trans-1,3-Dichloropropene	18.37	75	569561	26.731	ng	99
55) 1,1,2-Trichloroethane	18.61	97	303093	25.641	ng	97
58) Toluene	18.99	91	1339186	25.367	ng	99
59) 2-Hexanone	19.39	43	883623	25.170	ng	98
60) Dibromochloromethane	19.54	129	352845	28.249	ng	98
61) 1,2-Dibromoethane	19.87	107	345699	26.105	ng	98
62) n-Butyl Acetate	20.20	43	981251	23.714	ng	100
63) n-Octane	20.28	57	319723	25.050	ng	97
64) Tetrachloroethene	20.48	166	313916	25.696	ng	99
65) Chlorobenzene	21.35	112	837660	25.646	ng	100
66) Ethylbenzene	21.83	91	1521202	25.207	ng	99
67) m- & p-Xylenes	22.07	91	2387430	48.904	ng	99
68) Bromoform	22.16	173	274178	26.436	ng	99
69) Styrene	22.52	104	931476	26.398	ng	100
70) o-Xylene	22.66	91	1225251	25.032	ng	98
71) n-Nonane	22.92	43	765549	23.539	ng	98
72) 1,1,2,2-Tetrachloroethane	22.64	83	551441	25.386	ng	100
74) Cumene	23.41	105	1481888	23.968	ng	99
75) alpha-Pinene	23.91	93	760032	23.981	ng	100
76) n-Propylbenzene	24.05	91	1878570	24.170	ng	100
77) 3-Ethyltoluene	24.18	105	1492441	25.257	ng	99
78) 4-Ethyltoluene	24.23	105	1464128	25.572	ng	99
79) 1,3,5-Trimethylbenzene	24.33	105	1255212	25.994	ng	99

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	680016	26.303	ng	97
81) 2-Ethyltoluene	24.57	105	1474596	24.747	ng	100
82) 1,2,4-Trimethylbenzene	24.84	105	1248319	25.349	ng	100
83) n-Decane	24.94	57	783579	24.473	ng	99
84) Benzyl Chloride	25.01	91	1232630	26.703	ng	100
85) 1,3-Dichlorobenzene	25.03	146	665342	26.696	ng	98
86) 1,4-Dichlorobenzene	25.11	146	674734	25.391	ng	98
87) sec-Butylbenzene	25.17	105	1664439	25.020	ng	100
88) 4-Isopropyltoluene (p-...	25.36	119	1472106	24.816	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	1264769	25.211	ng	97
90) 1,2-Dichlorobenzene	25.54	146	618612	26.180	ng	100
91) d-Limonene	25.53	68	540824	25.826	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	235275	28.950	ng	92
93) n-Undecane	26.46	57	834523	24.499	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	459074	28.256	ng	99
95) Naphthalene	27.74	128	1677315	25.080	ng	100
96) n-Dodecane	27.70	57	837508	21.164	ng	99
97) Hexachlorobutadiene	28.15	225	258900	25.054	ng	99
98) Cyclohexanone	22.34	55	491779	22.484	ng	98
99) tert-Butylbenzene	24.83	119	1186643	24.898	ng	99
100) n-Butylbenzene	25.87	91	1423055	25.944	ng	100

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

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08060924.D Acq. Method File: TO15.M
 Data File Path: J:\MS13\DATA\2009_08\06\ Name: 25ng TO-15 ICV STD
 Operator: WA Misc Info: S20-07200902/S20-07240917
 Date Acquired: 8/6/09 18:51 Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.67	22.8	26.3	86.7	70	130	*
3)	Dichlorodifluoromethane (CFC)	4.83	22.8	26.0	87.7	70	130	*
4)	Chloromethane	5.15	26.2	25.0	104.8	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro	5.40	24.5	26.0	94.2	70	130	*
6)	Vinyl Chloride	5.60	25.5	25.3	100.8	70	130	*
7)	1,3-Butadiene	5.87	27.6	26.8	103.0	70	130	*
8)	Bromomethane	6.35	27.3	25.8	105.8	70	130	*
9)	Chloroethane	6.69	24.4	25.5	95.7	70	130	*
10)	Ethanol	7.15	124.9	130.0	96.1	70	130	*
11)	Acetonitrile	7.38	22.6	26.0	86.9	70	130	*
12)	Acrolein	7.58	25.7	26.3	97.7	70	130	*
13)	Acetone	7.85	125.1	132.0	94.8	70	130	*
14)	Trichlorofluoromethane	8.01	24.2	26.3	92.0	70	130	*
15)	2-Propanol (Isopropanol)	8.38	44.5	48.0	92.7	70	130	*
16)	Acrylonitrile	8.57	27.1	25.8	105.0	70	130	*
17)	1,1-Dichloroethene	9.03	27.6	27.5	100.4	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.33	51.3	50.0	102.6	70	130	*
19)	Methylene Chloride	9.26	23.9	26.8	89.2	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.43	23.3	27.0	86.3	70	130	*
21)	Trichlorotrifluoroethane	9.68	28.4	27.5	103.3	70	130	*
22)	Carbon Disulfide	9.63	24.5	26.0	94.2	70	130	*
23)	trans-1,2-Dichloroethene	10.69	25.9	25.5	101.6	70	130	*
24)	1,1-Dichloroethane	11.00	25.6	26.5	96.6	70	130	*
25)	Methyl tert-Butyl Ether	11.23	25.6	26.3	97.3	70	130	*
26)	Vinyl Acetate	11.30	88.8	126.0	70.5	70	130	*
27)	2-Butanone (MEK)	11.71	26.4	26.8	98.5	70	130	*
28)	cis-1,2-Dichloroethene	12.26	26.9	27.0	99.6	70	130	*
29)	Diisopropyl Ether	12.68	26.5	26.5	100.0	70	130	*
30)	Ethyl Acetate	12.71	50.9	52.0	97.9	70	130	*
31)	n-Hexane	12.59	24.3	26.0	93.5	70	130	*
32)	Chloroform	12.70	26.0	27.5	94.5	70	130	*
34)	Tetrahydrofuran (THF)	13.45	23.8	26.5	89.8	70	130	*
35)	Ethyl tert-Butyl Ether	13.49	24.2	25.5	94.9	70	130	*
36)	1,2-Dichloroethane	13.80	25.5	26.3	97.0	70	130	*
38)	1,1,1-Trichloroethane	14.19	25.0	26.0	96.2	70	130	*
39)	Isopropyl Acetate	14.87	49.7	52.3	95.0	70	130	*
40)	1-Butanol	14.94	46.3	52.8	87.7	70	130	*
41)	Benzene	14.89	23.5	25.8	91.1	70	130	*
42)	Carbon Tetrachloride	15.11	26.2	26.3	99.6	70	130	*
43)	Cyclohexane	15.31	49.3	51.8	95.2	70	130	*
44)	tert-Amyl Methyl Ether	15.89	24.0	25.5	94.1	70	130	*
45)	1,2-Dichloropropane	16.12	25.5	26.0	98.1	70	130	*
46)	Bromodichloromethane	16.39	25.5	26.3	97.0	70	130	*
47)	Trichloroethene	16.45	26.1	25.8	101.2	70	130	*
48)	1,4-Dioxane	16.55	26.0	26.0	100.0	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.53	24.0	25.8	93.0	70	130	*
50)	Methyl Methacrylate	16.79	54.9	52.8	104.0	70	130	*

DA 8/6/09

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08060924.D Acq. Method File: TO15.M
 Data File Path: J:\MS13\DATA\2009_08\06\ Name: 25ng TO-15 ICV STD
 Operator: WA Misc Info: S20-07200902/S20-07240917
 Date Acquired: 8/6/09 18:51 Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	16.89	24.3	25.8	94.2	70	130	*
52)	cis-1,3-Dichloropropene	17.66	24.0	24.5	98.0	70	130	*
53)	4-Methyl-2-pentanone	17.79	26.0	26.8	97.0	70	130	*
54)	trans-1,3-Dichloropropene	18.37	26.7	27.0	98.9	70	130	*
55)	1,1,2-Trichloroethane	18.61	25.6	26.0	98.5	70	130	*
58)	Toluene	18.99	25.4	26.8	94.8	70	130	*
59)	2-Hexanone	19.39	25.2	27.0	93.3	70	130	*
60)	Dibromochloromethane	19.54	28.2	28.3	99.6	70	130	*
61)	1,2-Dibromoethane	19.87	26.1	26.3	99.2	70	130	*
62)	n-Butyl Acetate	20.20	23.7	27.5	86.2	70	130	*
63)	n-Octane	20.28	25.1	26.3	95.4	70	130	*
64)	Tetrachloroethene	20.48	25.7	25.3	101.6	70	130	*
65)	Chlorobenzene	21.35	25.6	26.5	96.6	70	130	*
66)	Ethylbenzene	21.83	25.2	26.3	95.8	70	130	*
67)	m- & p-Xylenes	22.07	48.9	51.5	95.0	70	130	*
68)	Bromoform	22.16	26.4	26.5	99.6	70	130	*
69)	Styrene	22.52	26.4	26.3	100.4	70	130	*
70)	o-Xylene	22.66	25.0	26.0	96.2	70	130	*
71)	n-Nonane	22.92	23.5	25.8	91.1	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.64	25.4	27.0	94.1	70	130	*
74)	Cumene	23.41	24.0	25.3	94.9	70	130	*
75)	alpha-Pinene	23.91	24.0	24.8	96.8	70	130	*
76)	n-Propylbenzene	24.05	24.2	25.3	95.7	70	130	*
77)	3-Ethyltoluene	24.18	25.3	26.3	96.2	70	130	*
78)	4-Ethyltoluene	24.23	25.6	26.3	97.3	70	130	*
79)	1,3,5-Trimethylbenzene	24.33	26.0	26.5	98.1	70	130	*
80)	alpha-Methylstyrene	24.51	26.3	26.0	101.2	70	130	*
81)	2-Ethyltoluene	24.57	24.7	26.0	95.0	70	130	*
82)	1,2,4-Trimethylbenzene	24.84	25.3	25.5	99.2	70	130	*
83)	n-Decane	24.94	24.5	26.3	93.2	70	130	*
84)	Benzyl Chloride	25.01	26.7	26.8	99.6	70	130	*
85)	1,3-Dichlorobenzene	25.03	26.7	26.0	102.7	70	130	*
86)	1,4-Dichlorobenzene	25.11	25.4	26.3	96.6	70	130	*
87)	sec-Butylbenzene	25.17	25.0	25.8	96.9	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.36	24.8	25.0	99.2	70	130	*
89)	1,2,3-Trimethylbenzene	25.36	25.2	26.0	96.9	70	130	*
90)	1,2-Dichlorobenzene	25.54	26.2	25.8	101.6	70	130	*
91)	d-Limonene	25.53	25.8	26.5	97.4	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.07	28.9	27.0	107.0	70	130	*
93)	n-Undecane	26.46	24.5	26.3	93.2	70	130	*
94)	1,2,4-Trichlorobenzene	27.59	28.3	27.3	103.7	70	130	*
95)	Naphthalene	27.74	25.1	25.0	100.4	70	130	*
96)	n-Dodecane	27.70	21.2	24.3	87.2	70	130	*
97)	Hexachlorobutadiene	28.15	25.1	26.8	93.7	70	130	*
98)	Cyclohexanone	22.34	22.5	24.8	90.7	70	130	*
99)	tert-Butylbenzene	24.83	24.9	26.5	94.0	70	130	*
100)	n-Butylbenzene	25.87	25.9	26.5	97.7	70	130	*

* Denotes Passing Criterion

WA 8/6/09

CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1	IR Bromochloromethane (IS1)	1.000	1.000	0.0	139	-0.01
2	T Propene	1.716	1.496	12.8	117	0.00
3	T Dichlorodifluoromethane (CF	2.804	2.387	14.9	114	0.00
4	T Chloromethane	1.884	1.945	-3.2	124	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.139	1.057	7.2	124	0.00
6	T Vinyl Chloride	1.810	1.676	7.4	114	0.00
7	T 1,3-Butadiene	1.297	1.239	4.5	115	0.00
8	T Bromomethane	1.102	1.184	-7.4	128	0.00
9	T Chloroethane	1.052	0.926	12.0	110	-0.01
10	T Ethanol	1.087	0.945	13.1	117	-0.11
11	T Acetonitrile	3.185	2.515	21.0	108	-0.05
12	T Acrolein	0.828	0.775	6.4	115	-0.03
13	T Acetone	1.026	0.941	8.3	119	-0.06
14	T Trichlorofluoromethane	2.535	2.349	7.3	116	0.00
15	T 2-Propanol (Isopropanol)	4.032	3.206	20.5	107	-0.09
16	T Acrylonitrile	1.854	1.785	3.7	110	-0.03
17	T 1,1-Dichloroethene	1.177	1.148	2.5	118	0.00
18	T 2-Methyl-2-Propanol (tert-B	3.579	3.560	0.5	118	-0.07
19	T Methylene Chloride	1.378	1.210	12.2	118	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.656	2.105	20.7	110	-0.02
21	T Trichlorotrifluoroethane	0.922	0.985	-6.8	129	0.00
22	T Carbon Disulfide	4.858	4.362	10.2	114	0.00
23	T trans-1,2-Dichloroethene	2.083	1.994	4.3	114	-0.01
24	T 1,1-Dichloroethane	2.526	2.372	6.1	116	-0.01
25	T Methyl tert-Butyl Ether	3.882	3.590	7.5	115	-0.03
26	T Vinyl Acetate	0.209	0.255	-22.0	160	-0.02
27	T 2-Butanone (MEK)	0.926	0.888	4.1	115	-0.05
28	T cis-1,2-Dichloroethene	1.939	1.809	6.7	112	-0.01
29	T Diisopropyl Ether	1.240	1.235	0.4	121	-0.03
30	T Ethyl Acetate	0.483	0.474	1.9	118	-0.04
31	T n-Hexane	2.469	2.069	16.2	110	0.00
32	T Chloroform	2.174	2.168	0.3	124	-0.01
33	S 1,2-Dichloroethane-d4 (SS1)	2.173	1.996	8.1	129	-0.02
34	T Tetrahydrofuran (THF)	0.988	0.860	13.0	117	-0.04
35	T Ethyl tert-Butyl Ether	1.604	1.492	7.0	119	-0.03
36	T 1,2-Dichloroethane	1.986	1.829	7.9	114	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	138	-0.01
38	T 1,1,1-Trichloroethane	0.424	0.405	4.5	119	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 T	Isopropyl Acetate	0.185	0.173	6.5	116	-0.03
40 T	1-Butanol	0.324	0.267	17.6	112	-0.09
41 T	Benzene	1.099	0.977	11.1	119	-0.01
42 T	Carbon Tetrachloride	0.350	0.355	-1.4	120	0.00
43 T	Cyclohexane	0.403	0.382	5.2	120	-0.01
44 T	tert-Amyl Methyl Ether	0.825	0.759	8.0	116	-0.03
45 T	1,2-Dichloropropane	0.276	0.260	5.8	115	-0.02
46 T	Bromodichloromethane	0.362	0.356	1.7	120	-0.01
47 T	Trichloroethene	0.248	0.256	-3.2	125	-0.01
48 T	1,4-Dioxane	0.210	0.209	0.5	123	-0.03
49 T	2,2,4-Trimethylpentane (Iso	1.295	1.169	9.7	113	-0.01
50 T	Methyl Methacrylate	0.101	0.106	-5.0	124	-0.03
51 T	n-Heptane	0.295	0.273	7.5	115	-0.01
52 T	cis-1,3-Dichloropropene	0.458	0.441	3.7	118	-0.01
53 T	4-Methyl-2-pentanone	0.264	0.250	5.3	114	-0.03
54 T	trans-1,3-Dichloropropene	0.435	0.422	3.0	119	-0.02
55 T	1,1,2-Trichloroethane	0.241	0.238	1.2	122	-0.01
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	130	0.00
57 S	Toluene-d8 (SS2)	2.184	2.302	-5.4	138	0.00
58 T	Toluene	2.147	2.190	-2.0	123	-0.01
59 T	2-Hexanone	1.428	1.341	6.1	110	-0.03
60 T	Dibromochloromethane	0.508	0.566	-11.4	124	0.00
61 T	1,2-Dibromoethane	0.539	0.576	-6.9	122	-0.01
62 T	n-Butyl Acetate	1.683	1.560	7.3	111	-0.03
63 T	n-Octane	0.519	0.505	2.7	116	-0.01
64 T	Tetrachloroethene	0.497	0.568	-14.3	130	-0.01
65 T	Chlorobenzene	1.328	1.386	-4.4	124	0.00
66 T	Ethylbenzene	2.454	2.499	-1.8	121	0.00
67 T	m- & p-Xylenes	1.985	1.993	-0.4	121	-0.02
68 T	Bromoform	0.422	0.512	-21.3	128	-0.01
69 T	Styrene	1.435	1.527	-6.4	122	-0.01
70 T	o-Xylene	1.990	2.023	-1.7	122	-0.02
71 T	n-Nonane	1.323	1.190	10.1	111	0.00
72 T	1,1,2,2-Tetrachloroethane	0.883	0.922	-4.4	123	-0.02
73 S	Bromofluorobenzene (SS3)	0.576	0.624	-8.3	140	0.00
74 T	Cumene	2.514	2.603	-3.5	125	-0.01
75 T	alpha-Pinene	1.289	1.319	-2.3	120	-0.01
76 T	n-Propylbenzene	3.161	3.271	-3.5	123	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

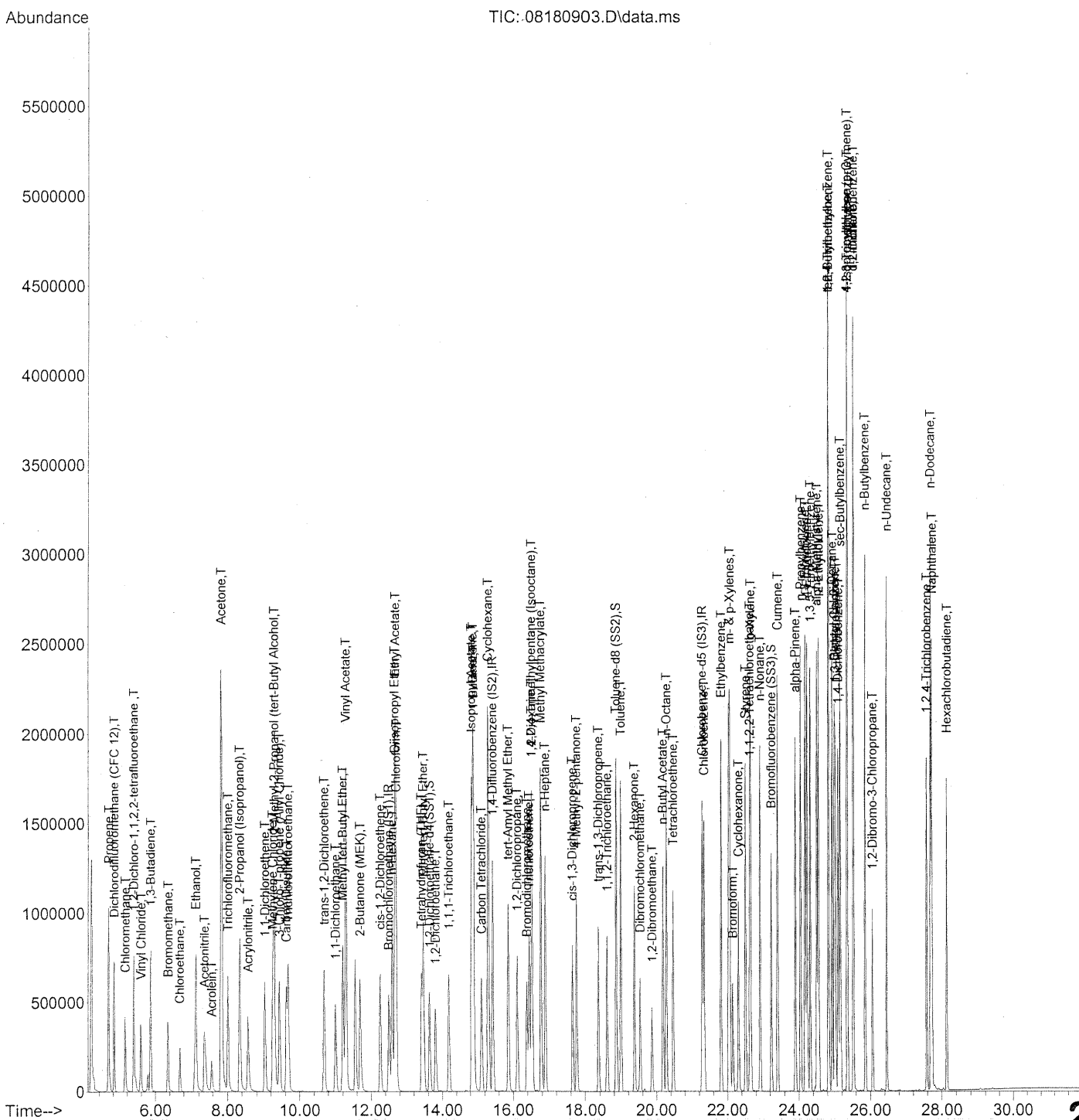
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.403	2.489	-3.6	125	-0.01
78 T	4-Ethyltoluene	2.328	2.420	-4.0	123	-0.02
79 T	1,3,5-Trimethylbenzene	1.964	2.036	-3.7	123	-0.01
80 T	alpha-Methylstyrene	1.051	1.145	-8.9	124	-0.02
81 T	2-Ethyltoluene	2.423	2.501	-3.2	122	-0.01
82 T	1,2,4-Trimethylbenzene	2.003	2.119	-5.8	125	-0.02
83 T	n-Decane	1.302	1.225	5.9	113	-0.01
84 T	Benzyl Chloride	1.877	2.037	-8.5	121	-0.02
85 T	1,3-Dichlorobenzene	1.013	1.105	-9.1	127	-0.02
86 T	1,4-Dichlorobenzene	1.081	1.167	-8.0	128	-0.02
87 T	sec-Butylbenzene	2.705	2.842	-5.1	124	-0.01
88 T	4-Isopropyltoluene (p-Cymen	2.412	2.649	-9.8	127	-0.01
89 T	1,2,3-Trimethylbenzene	2.040	2.146	-5.2	124	-0.01
90 T	1,2-Dichlorobenzene	0.961	1.079	-12.3	129	-0.02
91 T	d-Limonene	0.852	0.878	-3.1	120	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.393	-19.1	126	0.00
93 T	n-Undecane	1.385	1.309	5.5	115	0.00
94 T	1,2,4-Trichlorobenzene	0.661	0.774	-17.1	129	-0.01
95 T	Naphthalene	2.720	2.955	-8.6	127	-0.01
96 T	n-Dodecane	1.609	1.501	6.7	118	0.00
97 T	Hexachlorobutadiene	0.420	0.446	-6.2	129	0.00
98 T	Cyclohexanone	0.889	0.851	4.3	114	-0.03
99 T	tert-Butylbenzene	1.938	2.052	-5.9	126	-0.01
100 T	n-Butylbenzene	2.231	2.343	-5.0	122	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
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Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.50	130	288901	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1459937	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	689590	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4 (...)	13.64	65	576679	22.966	ng	-0.02
Spiked Amount	25.000		Recovery	=	91.88%	
57) Toluene-d8 (SS2)	18.86	98	1587418	26.345	ng	0.00
Spiked Amount	25.000		Recovery	=	105.40%	
73) Bromofluorobenzene (SS3)	23.24	174	429983	27.060	ng	0.00
Spiked Amount	25.000		Recovery	=	108.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	463284	23.369	ng	100
3) Dichlorodifluoromethan...	4.82	85	725417	22.388	ng	99
4) Chloromethane	5.14	50	562022	25.816	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	323539	24.576	ng	98
6) Vinyl Chloride	5.59	62	489878	23.421	ng	97
7) 1,3-Butadiene	5.86	54	429369	28.641	ng	99
8) Bromomethane	6.35	94	349021	27.412	ng	99
9) Chloroethane	6.69	64	270757	22.271	ng	98
10) Ethanol	7.13	45	1420198	113.015	ng	99
11) Acetonitrile	7.37	41	764442	20.772	ng	100
12) Acrolein	7.57	56	241937	25.292	ng	100
13) Acetone	7.83	58	1501329	126.620	ng	95
14) Trichlorofluoromethane	8.01	101	713875	24.369	ng	100
15) 2-Propanol (Isopropanol)	8.34	45	1752312	37.607	ng	98
16) Acrylonitrile	8.57	53	546673	25.517	ng	98
17) 1,1-Dichloroethene	9.03	96	364779	26.817	ng	# 86
18) 2-Methyl-2-Propanol (t...	9.30	59	2077344	50.228	ng	98
19) Methylene Chloride	9.25	84	374689	23.531	ng	93
20) 3-Chloro-1-propene (Al...	9.43	41	656904	21.401	ng	96
21) Trichlorotrifluoroethane	9.68	151	313157	29.400	ng	96
22) Carbon Disulfide	9.63	76	1350893	24.063	ng	99
23) trans-1,2-Dichloroethene	10.69	61	610745	25.375	ng	92
24) 1,1-Dichloroethane	11.00	63	726500	24.891	ng	100
25) Methyl tert-Butyl Ether	11.20	73	1132631	25.246	ng	99
26) Vinyl Acetate	11.29	86	370668	153.616	ng	# 83
27) 2-Butanone (MEK)	11.68	72	282174	26.357	ng	95
28) cis-1,2-Dichloroethene	12.26	61	570792	25.477	ng	92
29) Diisopropyl Ether	12.67	87	382483	26.697	ng	# 43
30) Ethyl Acetate	12.69	61	291787	52.319	ng	99
31) n-Hexane	12.59	57	652612	22.875	ng	100

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Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.71	83	671566	26.737	ng	100
34) Tetrahydrofuran (THF)	13.41	72	273222	23.942	ng	96
35) Ethyl tert-Butyl Ether	13.47	87	444891	24.004	ng	93
36) 1,2-Dichloroethane	13.80	62	560027	24.396	ng	97
38) 1,1,1-Trichloroethane	14.19	97	621744	25.105	ng	97
39) Isopropyl Acetate	14.84	61	528541	48.803	ng	# 89
40) 1-Butanol	14.90	56	806925	42.587	ng	# 73
41) Benzene	14.89	78	1512527	23.564	ng	99
42) Carbon Tetrachloride	15.12	117	559691	27.358	ng	99
43) Cyclohexane	15.31	84	1200029	51.043	ng	94
44) tert-Amyl Methyl Ether	15.87	73	1152719	23.914	ng	98
45) 1,2-Dichloropropane	16.12	63	398594	24.725	ng	99
46) Bromodichloromethane	16.39	83	560822	26.513	ng	99
47) Trichloroethene	16.45	130	396662	27.399	ng	100
48) 1,4-Dioxane	16.52	88	327870	26.727	ng	81
49) 2,2,4-Trimethylpentane...	16.53	57	1775572	23.484	ng	96
50) Methyl Methacrylate	16.77	100	330329	55.903	ng	94
51) n-Heptane	16.89	71	422828	24.545	ng	97
52) cis-1,3-Dichloropropene	17.65	75	638377	23.894	ng	98
53) 4-Methyl-2-pentanone	17.77	58	401403	26.020	ng	100
54) trans-1,3-Dichloropropene	18.36	75	676920	26.647	ng	99
55) 1,1,2-Trichloroethane	18.61	97	365485	25.934	ng	97
58) Toluene	18.99	91	1630957	27.542	ng	99
59) 2-Hexanone	19.37	43	1017439	25.837	ng	97
60) Dibromochloromethane	19.54	129	449255	32.065	ng	99
61) 1,2-Dibromoethane	19.87	107	420704	28.322	ng	97
62) n-Butyl Acetate	20.18	43	1183108	25.490	ng	99
63) n-Octane	20.28	57	373269	26.073	ng	93
64) Tetrachloroethene	20.47	166	399584	29.160	ng	99
65) Chlorobenzene	21.35	112	1032114	28.171	ng	100
66) Ethylbenzene	21.83	91	1826983	26.989	ng	98
67) m- & p-Xylenes	22.06	91	2858446	52.199	ng	98
68) Bromoform	22.16	173	364304	31.315	ng	98
69) Styrene	22.51	104	1128923	28.523	ng	99
70) o-Xylene	22.66	91	1478554	26.930	ng	97
71) n-Nonane	22.92	43	869677	23.839	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	681521	27.971	ng	100
74) Cumene	23.41	105	1852171	26.706	ng	100
75) alpha-Pinene	23.90	93	920650	25.897	ng	99
76) n-Propylbenzene	24.05	91	2328185	26.705	ng	98
77) 3-Ethyltoluene	24.18	105	1874582	28.283	ng	100
78) 4-Ethyltoluene	24.23	105	1822269	28.374	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	1533465	28.311	ng	98

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 20:17:35 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	846276	29.183	ng	95
81) 2-Ethyltoluene	24.57	105	1814026	27.141	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1549032	28.043	ng	99
83) n-Decane	24.94	57	912318	25.403	ng	98
84) Benzyl Chloride	25.01	91	1544913	29.837	ng	98
85) 1,3-Dichlorobenzene	25.03	146	831773	29.753	ng	97
86) 1,4-Dichlorobenzene	25.11	146	853369	28.629	ng	99
87) sec-Butylbenzene	25.17	105	2077107	27.836	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1885493	28.336	ng	98
89) 1,2,3-Trimethylbenzene	25.36	105	1586239	28.189	ng	96
90) 1,2-Dichlorobenzene	25.53	146	789044	29.770	ng	99
91) d-Limonene	25.53	68	661121	28.145	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	298475	32.741	ng	87
93) n-Undecane	26.46	57	985463	25.791	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	597547	32.789	ng	98
95) Naphthalene	27.73	128	2159727	28.790	ng	100
96) n-Dodecane	27.70	57	1026491	23.125	ng	99
97) Hexachlorobutadiene	28.15	225	338591	29.211	ng	99
98) Cyclohexanone	22.31	55	575126	23.441	ng	97
99) tert-Butylbenzene	24.83	119	1499695	28.052	ng	99
100) n-Butylbenzene	25.86	91	1764253	28.674	ng	99

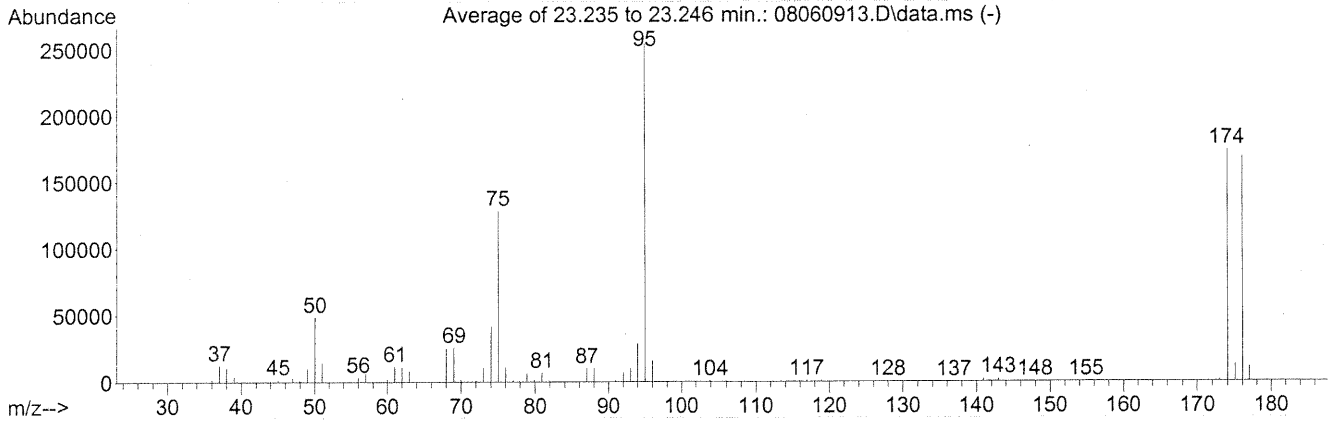
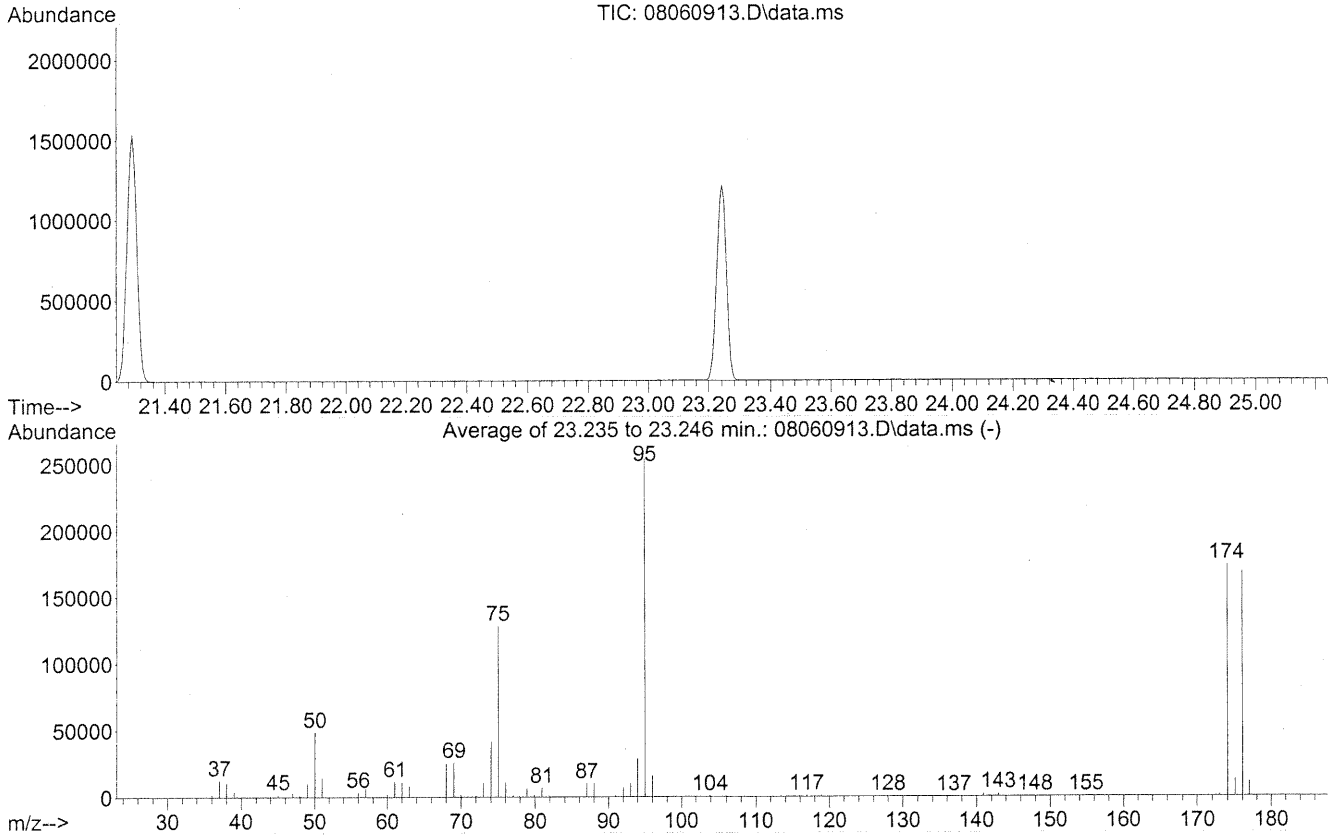
(#) = qualifier out of range (m) = manual integration (+) = signals summed

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060913.D
 Acq On : 6 Aug 2009 11:15
 Operator : WA
 Sample : 25ng BFB STD
 Misc : S20-07200902
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 07:59:49 2009



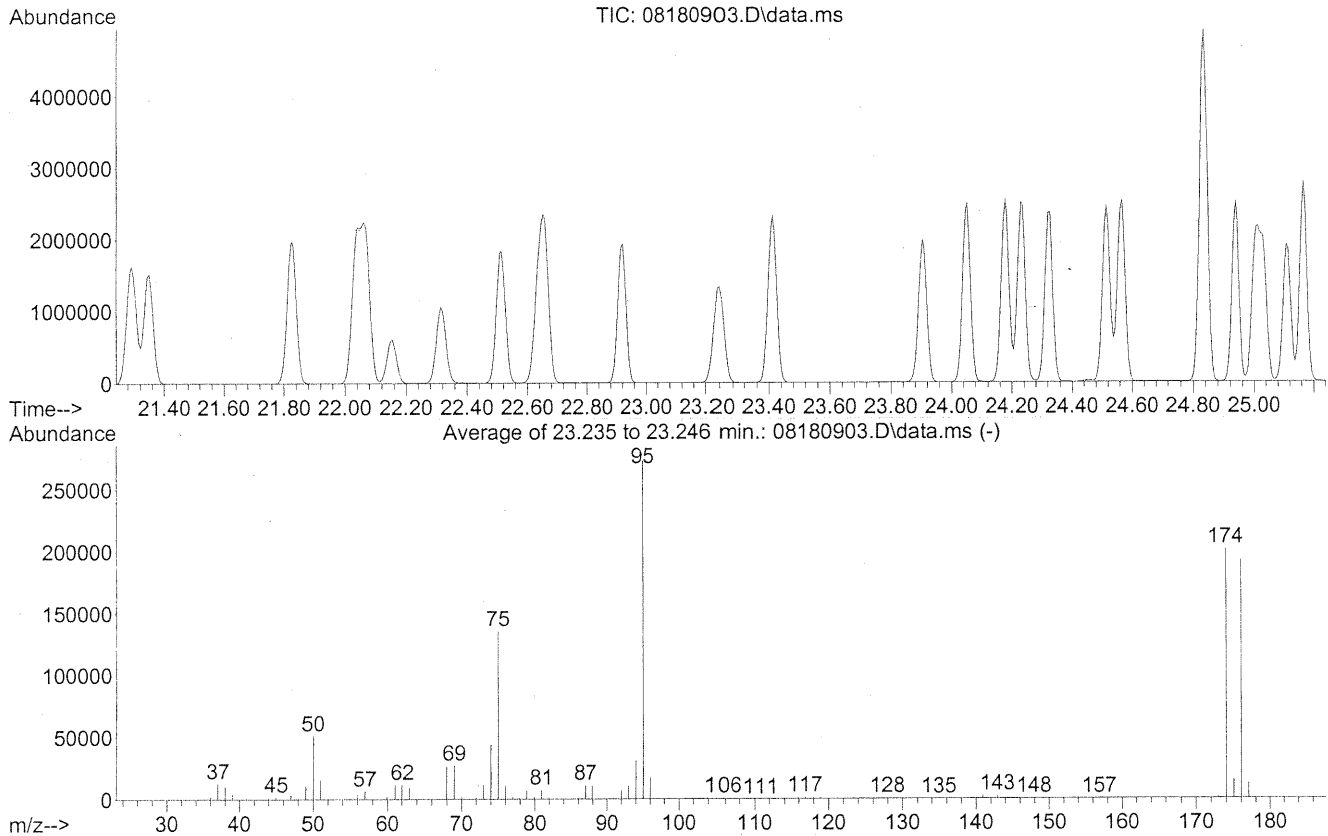
AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.2	48845	PASS
75	95	30	66	50.6	128627	PASS
95	95	100	100	100.0	254165	PASS
96	95	5	9	6.3	16094	PASS
173	174	0.00	2	0.9	1624	PASS
174	95	50	120	68.4	173931	PASS
175	174	4	9	7.5	13043	PASS
176	174	93	101	97.2	168981	PASS
177	176	5	9	6.6	11200	PASS

Data Path : J:\MS13\DATA\2009_08\18\
 Data File : 08180903.D
 Acq On : 18 Aug 2009 14:32
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009



AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	51365	PASS
75	95	30	66	49.8	135747	PASS
95	95	100	100	100.0	272789	PASS
96	95	5	9	6.4	17559	PASS
173	174	0.00	2	0.8	1653	PASS
174	95	50	120	73.9	201493	PASS
175	174	4	9	7.6	15284	PASS
176	174	93	101	95.5	192363	PASS
177	176	5	9	6.6	12710	PASS

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
13	08/06/09 11:15	08060913.D	25ng BFB STD	S20-07200902	WA	4	Passed
14	08/06/09 11:55	08060914.D	0.1ng TO-15 ICAL STD	S20-07200902/S20-07240912	WA	1	
15	08/06/09 12:36	08060915.D	0.2ng TO-15 ICAL STD	S20-07200902/S20-07240912	WA	1	
16	08/06/09 13:17	08060916.D	0.5ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
17	08/06/09 13:57	08060917.D	1.0ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
18	08/06/09 14:38	08060918.D	5.0ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
19	08/06/09 15:18	08060919.D	25ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
20	08/06/09 15:59	08060920.D	50ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
21	08/06/09 16:39	08060921.D	100ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
ICAL saved as R13080609.M; Good from 0.1ng --> 100ng, except: Acetone: 2.5ng -->500ng and THF: 0.2ng -->100ng							
22	08/06/09 17:20	08060922.D	25ng TO-15 ICV STD	S20-07200902/S20-07240916	WA	2	failed, case file
23	08/06/09 18:10	08060923.D	Blank	S20-07200902	WA	4	
24	08/06/09 18:51	08060924.D	25ng TO-15 ICV STD	S20-07200902/S20-07240917	WA	2	Passed all cmpds.
25	08/06/09 19:31	08060925.D	1.0ng TO-15 LOQ Verification	S20-07200902/S20-07310903	WA	4	
26	08/06/09 20:11	08060926.D	1.0ng TO-15 LOQ Verification	S20-07200902/S20-07310903	WA	4	
27	08/06/09 20:53	08060927.D	CAS QC CAN/FC/Gauge (1000mL)	AC00687/FC00232/AVG00940	WA	5	
28	08/06/09 21:35	08060928.D	CAS QC CAN/FC/Gauge (1000mL)	AC00705/FC00189/AVG00655	WA	6	
29	08/06/09 22:17	08060929.D	CAS QC CAN/FC/Gauge (1000mL)	AC00931/FC00407/AVG01149	WA	7	
30	08/06/09 22:59	08060930.D	CAS QC CAN/FC/Gauge (1000mL)	AC00672/FC00783/AVG00900	WA	8	
31	08/06/09 23:41	08060931.D	CAS QC CAN/FC/Gauge (1000mL)	AC01257/FC00515/AVG00906	WA	9	
32	08/07/09 0:23	08060932.D	CAS QC CAN/FC/Gauge (1000mL)	AC00958/FC00678/AVG01072	WA	10	
33	08/07/09 1:04	08060933.D	CAS QC CAN/FC/Gauge (1000mL)	AC01527/FC00508/AVG01046	WA	11	
34	08/07/09 1:46	08060934.D	CAS QC CAN/FC/Gauge (1000mL)	AC01172/FC00256/AVG00986	WA	12	
35	08/07/09 2:27	08060935.D	0.2ng LOD Verification	S20-07200902/S20-07240912	WA	1	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
10	08/17/09 10:49	08170910.D	P0902721-005 dil (100mL)	[REDACTED]	WA	9	
11	08/17/09 11:47	08170911.D	25ng TO-15 LCS STD	S20-08140906/S20-07270906	WA	2	Passed
12	08/17/09 12:28	08170912.D	P0902721-007 dil (100mL)	[REDACTED]	WA	11	
13	08/17/09 13:08	08170913.D	P0902721-008 dil (100mL)	[REDACTED]	WA	12	
14	08/17/09 14:31	08170914.D	25ng TO-15 LCSD STD	S20-08140906/S20-07270906	WA	2	Passed
15	08/17/09 15:13	08170915.D	P0902721-001 (1000mL)	[REDACTED]	WA	5	
16	08/17/09 15:55	08170916.D	P0902721-011 (1000mL)	[REDACTED]	WA	1	
17	08/17/09 16:37	08170917.D	P0902721-012 (1000mL)	[REDACTED]	WA	3	
18	08/17/09 17:17	08170918.D	System		WA	16	
19	08/17/09 17:59	08170919.D	P0902721-001 dup (1000mL)	[REDACTED]	WA	5	Passed
20	08/17/09 18:41	08170920.D	P0902721-013 (1000mL)	[REDACTED]	WA	6	
21	08/17/09 19:23	08170921.D	P0902721-014 (1000mL)	[REDACTED]	WA	7	
22	08/17/09 20:05	08170922.D	P0902721-015 (1000mL)	[REDACTED]	WA	8	
23	08/17/09 20:47	08170923.D	P0902721-016 (1000mL)	[REDACTED]	WA	9	
24	08/17/09 21:28	08170924.D	P0902721-017 (1000mL)	[REDACTED]	WA	10	
25	08/17/09 22:10	08170925.D	P0902721-018 (1000mL)	[REDACTED]	WA	11	
26	08/17/09 22:51	08170926.D	System		WA	16	
27	08/17/09 23:32	08170927.D	P0902721-001 dil (100mL)	[REDACTED]	WA	5	
28	08/18/09 0:13	08170928.D	P0902721-001 dupdil (100mL)	[REDACTED]	WA	5	
29	08/18/09 0:53	08170929.D	P0902721-011 dil (200mL)	[REDACTED]	WA	1	
30	08/18/09 1:34	08170930.D	P0902721-013 dil (200mL)	[REDACTED]	WA	6	
31	08/18/09 2:15	08170931.D	P0902721-014 dil (200mL)	[REDACTED]	WA	7	EA 8/18/09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/18/09 13:27	08180902.D	Bad Run		WA	5	
2	08/18/09 14:32	08180903.D	25ng TO-15 CCV STD	S20-08140906/S20-07310901	WA	4	Passed
3	08/18/09 16:40	08180904.D	0.5ng RL/LOQ Check	S20-08070902/S20-07310903	WA	4	
4	08/18/09 17:22	08180905.D	TO-15 Method Blank (1000mL)	S20-08140906	WA	4	Passed
5	08/18/09 18:02	08180906.D	25ng TO-15 LCS STD	S20-08140906/S20-07270906	WA	2	Passed
6	08/18/09 18:43	08180907.D	P0902766-001 (1000mL)	Env. Health & Engineering 101160	WA	13	
7	08/18/09 19:25	08180908.D	P0902766-001 dup (1000mL)	Env. Health & Engineering 101160	WA	13	
8	08/18/09 20:05	08180909.D	P0902766-002 (1000mL)	Env. Health & Engineering 101161	WA	14	
9	08/18/09 20:46	08180910.D	P0902721-016 dil (200mL)	[REDACTED]	WA	9	
10	08/18/09 21:26	08180911.D	P0902721-017 dil (200mL)	[REDACTED]	WA	10	
11	08/18/09 22:06	08180912.D	25ng TO-15 LCSD STD	S20-08140906/S20-07270906	WA	2	case file
12	08/18/09 22:46	08180913.D	System	S20-08140906/S20-07270906	WA	16	
13	08/18/09 23:26	08180914.D	P0902697-Blank100	[REDACTED]	WA	5	
14	08/19/09 0:07	08180915.D	P0902697-Blank150	[REDACTED]	WA	7	
15	08/19/09 0:47	08180916.D	P0902697-001 (100mL)	[REDACTED]	WA	6	
16	08/19/09 1:27	08180917.D	P0902697-002 (100mL)	[REDACTED]	WA	8	
17	08/19/09 2:08	08180918.D	System		WA	16	cont next page EA 8/20/09

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	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
18	08/19/09 2:48	08180919.D	P0902704-Blank (100mL)	[REDACTED]	WA	1	
19	08/19/09 3:28	08180920.D	P0902704-001 (100mL)	[REDACTED]	WA	3	
20	08/19/09 4:08	08180921.D	P0902704-002 (100mL)	[REDACTED]	WA	11	
21	08/19/09 4:49	08180922.D	P0902704-003 (100mL)	[REDACTED]	WA	12	
22	08/19/09 5:29	08180923.D	system		WA	16	
23	08/19/09 6:09	08180924.D	P0902697-001 dil (15mL)	[REDACTED]	WA	6	
24	08/19/09 7:19	08180925.D	P0902766-003 (1000mL)	Env. Health & Engineering 101162	WA	10	
25	08/19/09 8:01	08180926.D	P0902766-004 (1000mL)	Env. Health & Engineering 101163	WA	11	
26	08/19/09 9:09	08180927.D	P0902828-001 (2.5mL)	[REDACTED]	WA	4	
27	08/19/09 9:50	08180928.D	P0902828-002 (2.5mL)	[REDACTED]	WA	4	
28	08/19/09 10:42	08180929.D	P0902818-001 (200mL)	[REDACTED]	WA	3	
29	08/19/09 11:22	08180930.D	P0902818-001 dil (25mL)	[REDACTED]	WA	3	
30	08/19/09 12:03	08180931.D	P0902828-001 (15mL)	[REDACTED]	WA	1	
31	08/19/09 12:43	08180932.D	Blank	[REDACTED]	WA	4	by [signature]