

LABORATORY REPORT

October 1, 2009

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

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on September 4, 2009. For your reference, these analyses have been assigned our service request number P0903141.

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 397 pages.

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

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

Respectfully submitted,

Columbia Analytical Services, Inc.



Kate Aguilera
Project Manager

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

CAS Project No: P0903141

CASE NARRATIVE

The samples were received intact under chain of custody on September 4, 2009 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

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

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

Client: Environmental Health & Engineering, Incorporated

Folder: P0903141

Project: 16512

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 #
P0903141-001.01	105014	6.0 L-Summa Canister Ambient	-28.6	-14.0	3.5			AC00950	14340		
P0903141-002.01	105015	6.0 L-Summa Canister Ambient	-0.2	-0.1	3.5			AC00420	14340		
P0903141-003.01	105016	6.0 L-Summa Canister Ambient	0.0	0.0	3.5			AC00517	14340		
P0903141-004.01	105017	6.0 L-Summa Canister Ambient		0.4	3.9			AC00638	14340		
P0903141-005.01	105018	6.0 L-Summa Canister Ambient	-1.0	-0.5	3.7			AC01062	14339		
P0903141-006.01	105019	6.0 L-Summa Canister Ambient		0.3	3.5			AC00400	14339		

Miscellaneous Items - received

- FC00088
- AVG01154
- FC00552
- FC00368
- AVG00768
- FC00619
- AVG00670
- AVG01177
- AVG00178
- FC00361
- FC00645
- AVG01019

DATE: 9/3/09

FROM: Environmental Health and Engineering, Inc. 117 Fourth Avenue Needham, MA 02494-2725 P09103141

TO: Columbia Analytical

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

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

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

For EH & E Data Coordinator - URGENT DATA

Table with 4 columns: SAMPLE ID, SAMPLE TYPE, ANALYTICAL METHOD/NUMBER, OTHER: Time/Date/Vol. Contains handwritten entries for samples 105014 through 105019.

Special instructions:

- Standard turn around time (checked), Rush by, Other, Fax results, RETURN SAMPLES, Electronic transfer (checked), Additional report recipient (checked).

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

Relinquished by: Date: Received by: FEDX of (company name) Date: Relinquished by: FEDX of (company name) Date: Received by: [Signature] of (company name) Date: 09/04/09 1006

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Inc. Work order: P0903141
 Project: Project # 16512 / 16512
 Sample(s) received on: 9/4/09 Date opened: 9/4/09 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
P0903141-001.01	6.0 L Ambient Can					
P0903141-002.01	6.0 L Ambient Can					
P0903141-003.01	6.0 L Ambient Can					
P0903141-004.01	6.0 L Ambient Can					
P0903141-005.01	6.0 L Ambient Can					
P0903141-006.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers): _____
 Chain of Custody is missing date/time collected _____
 No signature and date relinquishing samples. _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12); Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12); RSK - MBEPP, 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: 105014
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00950

CAS Project ID: P0903141
 CAS Sample ID: P0903141-001

Date Collected: 9/3/09
 Date Received: 9/4/09
 Date Analyzed: 9/10/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
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.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105014
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00950

CAS Project ID: P0903141
CAS Sample ID: P0903141-001

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/10/09
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: Re Date: 9/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105014
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00950

CAS Project ID: P0903141
CAS Sample ID: P0903141-001

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/10/09
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.

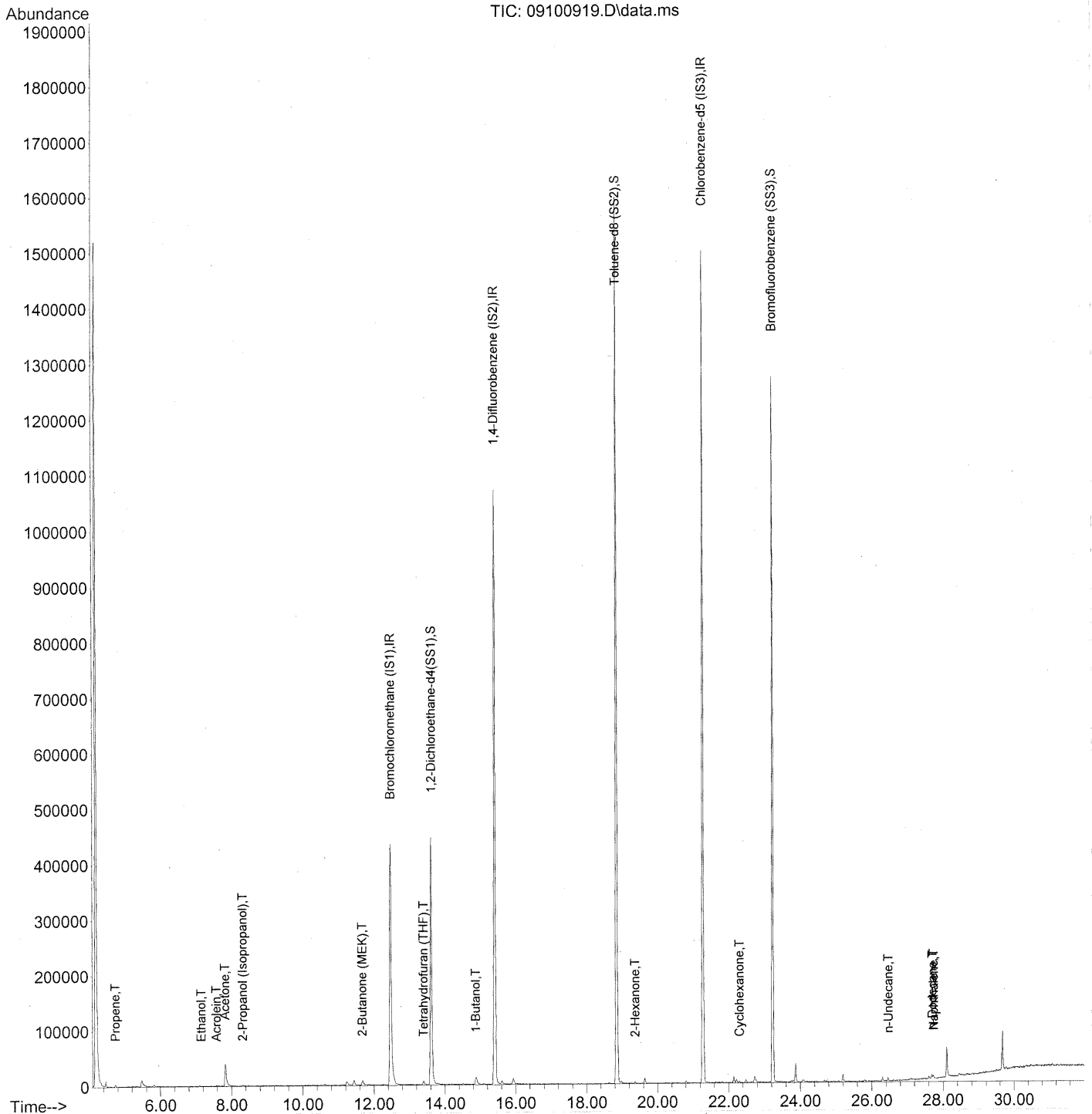
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: *Re* Date: 9/21/09 **9**

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_09\10\
Data File : 09100919.D
Acq On : 10 Sep 2009 11:02 pm
Operator : LM/CC
Sample : P0903141-001 (1000ml)
Misc : EH&E 105014
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 16 20:04:20 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100919.D
 Acq On : 10 Sep 2009 11:02 pm
 Operator : LM/CC
 Sample : P0903141-001 (1000ml)
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	244644	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1239409	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	628780	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.61	65	476798	24.594	ng	-0.03
Spiked Amount	25.000			Recovery =	98.36%	
57) Toluene-d8 (SS2)	18.84	98	1354005	24.095	ng	-0.02
Spiked Amount	25.000			Recovery =	96.40%	
73) Bromofluorobenzene (SS3)	23.23	174	415860	25.714	ng	-0.01
Spiked Amount	25.000			Recovery =	102.84%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.74	42	1430	0.081	ng	88
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	704	0.064	ng	# 64
11) Acetonitrile	7.41	41	135	N.D.		
12) Acrolein	7.58	56	1743	0.208	ng	# 34
13) Acetone	7.82	58	28216	2.486	ng	# 82
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.32	45	2737	0.073	ng	77
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.15	96	104	N.D.		
18) 2-Methyl-2-Propanol (t...	9.29	59	88	N.D.		
19) Methylene Chloride	9.23	84	99	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.64	76	348	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	11.67	72	4123	0.450	ng	# 87
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_09\10\
 Data File : 09100919.D
 Acq On : 10 Sep 2009 11:02 pm
 Operator : LM/CC
 Sample : P0903141-001 (1000ml)
 Misc : EH&E 105014
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 16 20:04:20 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 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)	13.40	72	2270	0.228 ng		98
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	14.87	56	13511	0.876 ng	#	33
41) Benzene	14.87	78	763	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	932	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.55	57	88	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	2704	N.D.		
59) 2-Hexanone	19.36	43	4012	0.108 ng		85
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.26	43	96	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	335	N.D.		
67) m- & p-Xylenes	22.05	91	279	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	22.91	43	254	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.22	105	519	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.18	105	120	N.D.		
78) 4-Ethyltoluene	24.23	105	121	N.D.		
79) 1,3,5-Trimethylbenzene	24.23	105	121	N.D.		

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100919.D
 Acq On : 10 Sep 2009 11:02 pm
 Operator : LM/CC
 Sample : P0903141-001 (1000ml)
 Misc : EH&E 105014
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 16 20:04:20 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

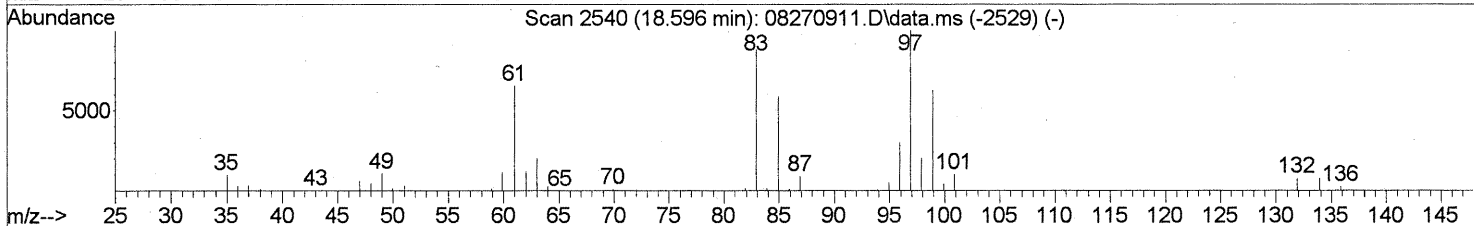
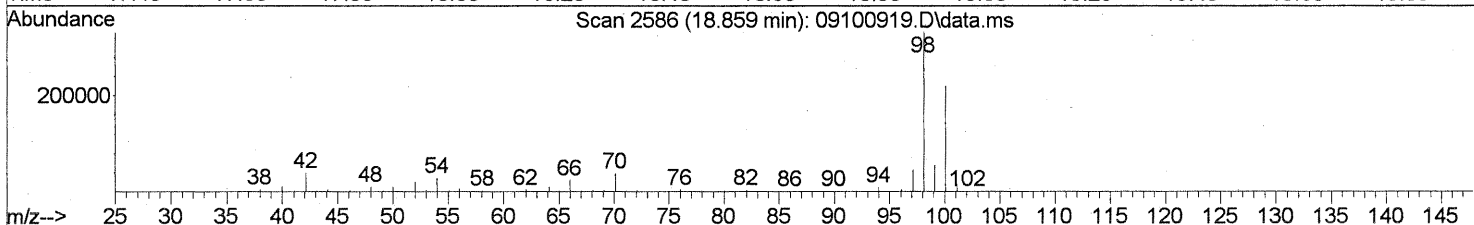
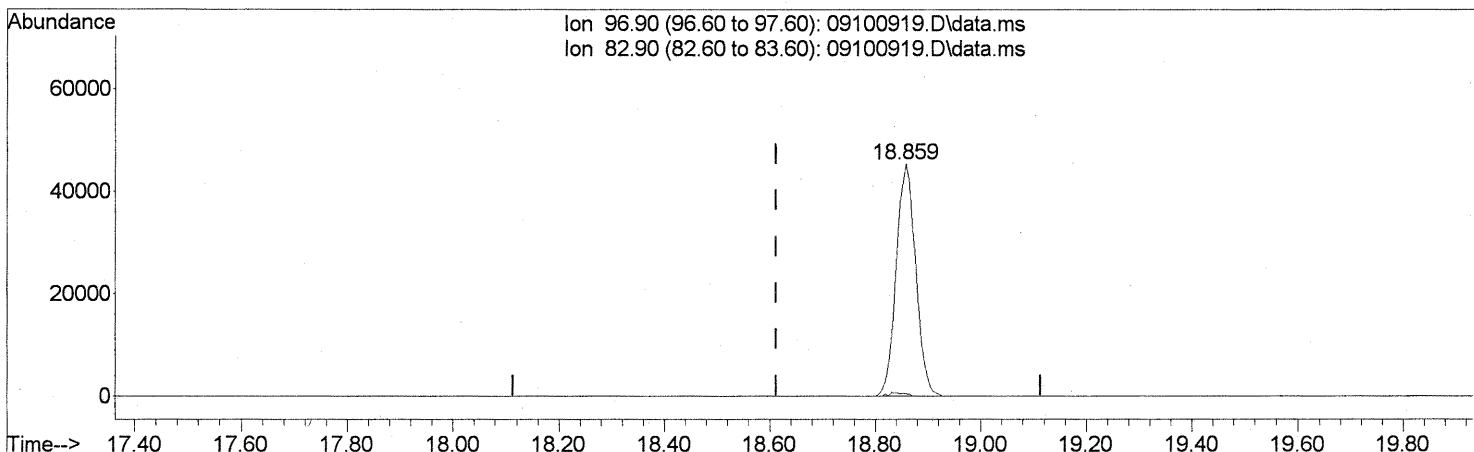
Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	0.00	118	0		N.D.	
81) 2-Ethyltoluene	24.83	105	508		N.D.	
82) 1,2,4-Trimethylbenzene	24.83	105	508		N.D.	
83) n-Decane	24.93	57	673		N.D.	
84) Benzyl Chloride	0.00	91	0		N.D.	
85) 1,3-Dichlorobenzene	25.10	146	93		N.D.	
86) 1,4-Dichlorobenzene	25.10	146	93		N.D.	
87) sec-Butylbenzene	25.36	105	90		N.D.	
88) 4-Isopropyltoluene (p-...)	25.35	119	98		N.D.	
89) 1,2,3-Trimethylbenzene	25.36	105	90		N.D.	
90) 1,2-Dichlorobenzene	25.10	146	93		N.D.	
91) d-Limonene	0.00	68	0		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.46	57	2707	0.078	ng	94
94) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
95) Naphthalene	27.73	128	6147	0.079	ng	95
96) n-Dodecane	27.70	57	3490	0.088	ng	89
97) Hexachlorobutadiene	0.00	225	0		N.D.	
98) Cyclohexanone	22.30	55	1228	0.053	ng	# 82
99) tert-Butylbenzene	0.00	119	0		N.D.	
100) n-Butylbenzene	25.85	91	88		N.D.	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100919.D
 Acq On : 10 Sep 2009 23:02
 Operator : LM/CC
 Sample : P0903141-001 (1000ml)
 Misc : EH&E 105014
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 11 08:32:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100919.D\data.ms

(55) 1,1,2-Trichloroethane (T)
 18.859min (+0.246) 8.58ng
 response 116467

Ion	Exp%	Act%
96.90	100	100
82.90	87.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
m 9/20/09

Em 9/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 105015

Client Project ID: 16512

CAS Project ID: P0903141

CAS Sample ID: P0903141-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00420

Date Collected: 9/3/09
 Date Received: 9/4/09
 Date Analyzed: 9/10/09 & 9/15/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.25

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	4.6	0.63	2.7	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.63	0.58	0.13	
74-87-3	Chloromethane	0.64	0.13	0.31	0.061	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.63	ND	0.089	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.049	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.057	
74-83-9	Bromomethane	ND	0.13	ND	0.032	
75-00-3	Chloroethane	ND	0.13	ND	0.047	
64-17-5	Ethanol	320	6.3	170	3.3	
75-05-8	Acetonitrile	250	0.63	150	0.37	D
107-02-8	Acrolein	8.2	0.63	3.6	0.27	
67-64-1	Acetone	140	6.3	58	2.6	
75-69-4	Trichlorofluoromethane	1.4	0.13	0.26	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	24	0.63	9.9	0.25	
107-13-1	Acrylonitrile	ND	0.63	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.032	
75-09-2	Methylene Chloride	ND	0.63	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.68	0.13	0.088	0.016	
75-15-0	Carbon Disulfide	1.5	0.63	0.47	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.032	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.035	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	8.9	0.63	3.0	0.21	

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

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

D = The reported result is from a dilution.

Verified By: *Re*

Date: 9/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105015
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00420

CAS Project ID: P0903141
CAS Sample ID: P0903141-002

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/10/09 & 9/15/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.25

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.032	
141-78-6	Ethyl Acetate	3.8	0.63	1.1	0.17	
110-54-3	n-Hexane	28	0.63	7.8	0.18	
67-66-3	Chloroform	5.7	0.13	1.2	0.026	
109-99-9	Tetrahydrofuran (THF)	1.3	0.63	0.44	0.21	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.023	
71-43-2	Benzene	7.1	0.13	2.2	0.039	
56-23-5	Carbon Tetrachloride	0.94	0.13	0.15	0.020	
110-82-7	Cyclohexane	3.9	0.63	1.1	0.18	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.027	
75-27-4	Bromodichloromethane	1.6	0.13	0.24	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.63	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.63	ND	0.15	
142-82-5	n-Heptane	10	0.63	2.5	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.63	ND	0.14	
108-10-1	4-Methyl-2-pentanone	1.8	0.63	0.44	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.023	
108-88-3	Toluene	40	0.63	11	0.17	
591-78-6	2-Hexanone	2.2	0.63	0.54	0.15	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.016	
123-86-4	n-Butyl Acetate	4.1	0.63	0.86	0.13	

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105015
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00420

CAS Project ID: P0903141
 CAS Sample ID: P0903141-002

Date Collected: 9/3/09
 Date Received: 9/4/09
 Date Analyzed: 9/10/09 & 9/15/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.25

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	3.6	0.63	0.78	0.13	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.018	
108-90-7	Chlorobenzene	ND	0.13	ND	0.027	
100-41-4	Ethylbenzene	8.5	0.63	2.0	0.14	
179601-23-1	m,p-Xylenes	26	0.63	5.9	0.14	
75-25-2	Bromoform	ND	0.63	ND	0.060	
100-42-5	Styrene	2.8	0.63	0.65	0.15	
95-47-6	o-Xylene	9.3	0.63	2.1	0.14	
111-84-2	n-Nonane	2.1	0.63	0.39	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.018	
98-82-8	Cumene	2.2	0.63	0.46	0.13	
80-56-8	alpha-Pinene	150	0.63	27	0.11	D
103-65-1	n-Propylbenzene	1.7	0.63	0.36	0.13	
622-96-8	4-Ethyltoluene	3.1	0.63	0.63	0.13	
108-67-8	1,3,5-Trimethylbenzene	2.6	0.63	0.53	0.13	
95-63-6	1,2,4-Trimethylbenzene	9.5	0.63	1.9	0.13	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.021	
106-46-7	1,4-Dichlorobenzene	0.26	0.13	0.043	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	38	0.63	6.9	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.63	ND	0.065	
120-82-1	1,2,4-Trichlorobenzene	ND	0.63	ND	0.084	
91-20-3	Naphthalene	2.0	0.63	0.39	0.12	
87-68-3	Hexachlorobutadiene	ND	0.63	ND	0.059	

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

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

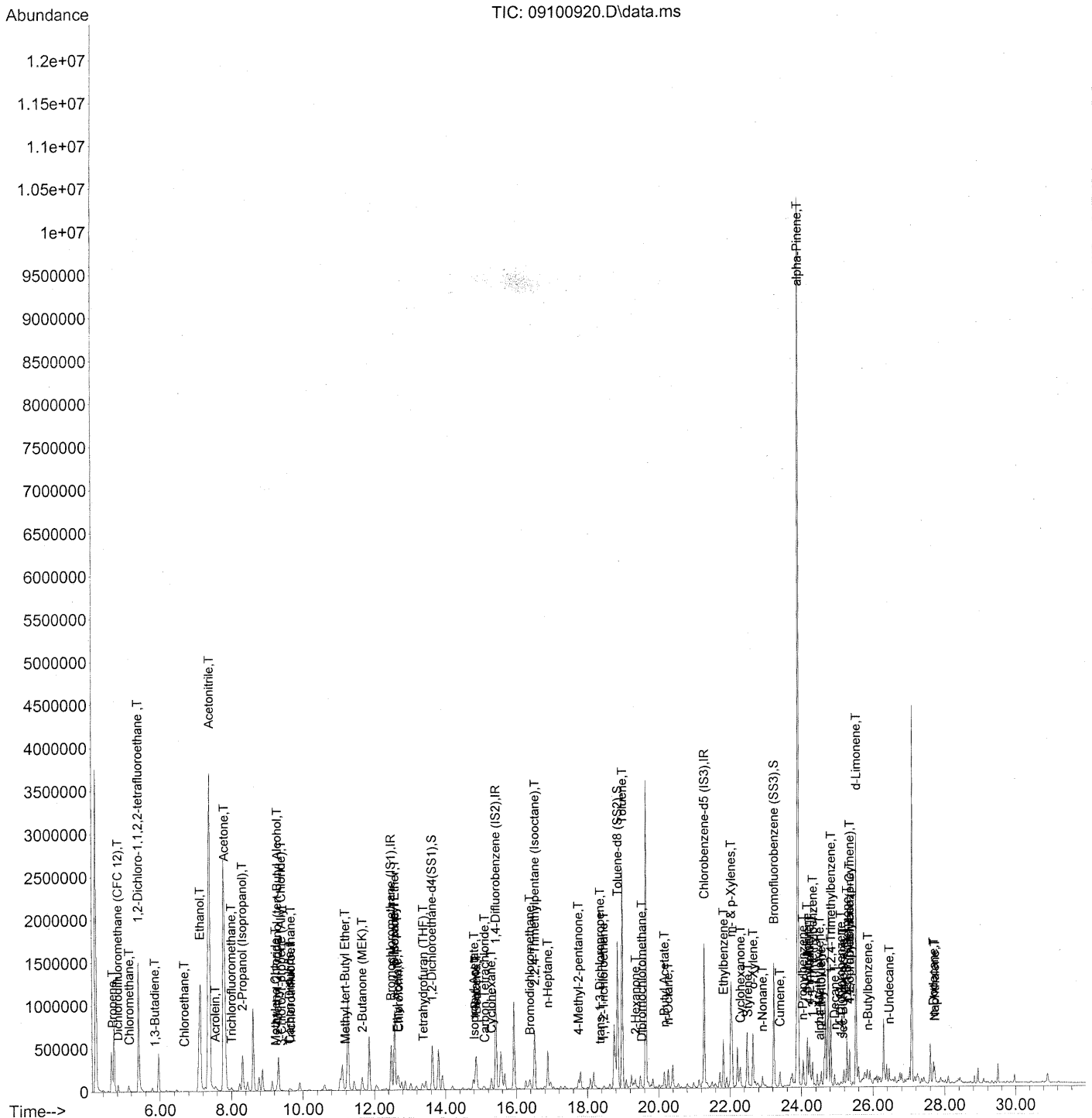
D = The reported result is from a dilution.

Verified By: Re Date: 9/10/09 **17**

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_09\10\
Data File : 09100920.D
Acq On : 10 Sep 2009 11:44 pm
Operator : LM/CC
Sample : P0903141-002 (1000ml)
Misc : EH&E 105015
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 20:12:15 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 11:44 pm
 Operator : LM/CC
 Sample : P0903141-002 (1000ml) ✓
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 20:12:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	269529	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1347804	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	685687	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.62	65	523345	24.502	ng	-0.03
Spiked Amount	25.000			Recovery =	98.00%	
57) Toluene-d8 (SS2)	18.85	98	1471029	24.005	ng	-0.01
Spiked Amount	25.000			Recovery =	96.04%	
73) Bromofluorobenzene (SS3)	23.23	174	464182	26.319	ng	0.00
Spiked Amount	25.000			Recovery =	105.28%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	72037	3.695	ng	92
3) Dichlorodifluoromethan...	4.82	85	78630	2.304	ng	99
4) Chloromethane	5.15	50	11779	0.513	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	1088	0.077	ng	# 43
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.86	54	999	0.062	ng	# 80
8) Bromomethane	6.35	94	374	N.D.		
9) Chloroethane	6.69	64	987	0.084	ng	# 42
10) Ethanol	7.13	45	3063744	253.424	ng	99
11) Acetonitrile	7.39	41	7398965	220.341	ng	See list? 99
12) Acrolein	7.55	56	60804	6.587	ng	100
13) Acetone	7.81	58	1388423	111.052	ng	# 80
14) Trichlorofluoromethane	8.01	101	34875	1.159	ng	100
15) 2-Propanol (Isopropanol)	8.31	45	812712	19.553	ng	100
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	8.93	96	100	N.D.		
18) 2-Methyl-2-Propanol (t...	9.29	59	15923	0.383	ng	# 1
19) Methylene Chloride	9.24	84	3510	0.221	ng	93
20) 3-Chloro-1-propene (Al...	9.40	41	1999	0.081	ng	# 41
21) Trichlorotrifluoroethane	9.66	151	6458	0.542	ng	99
22) Carbon Disulfide	9.63	76	65918	1.168	ng	99
23) trans-1,2-Dichloroethene	10.68	61	129	N.D.		
24) 1,1-Dichloroethane	11.05	63	800	N.D.		
25) Methyl tert-Butyl Ether	11.19	73	3393	0.076	ng	# 53
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.66	72	72209	7.150	ng	# 87
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.58	87	6080	0.412	ng	# 1
30) Ethyl Acetate	12.66	61	16664	3.071	ng	92
31) n-Hexane	12.58	57	594759	22.000	ng	98

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 11:44 pm
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 20:12:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	120862	4.535 ng		94
34) Tetrahydrofuran (THF)	13.38	72	11383	1.039 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.	d	
38) 1,1,1-Trichloroethane	14.17	97	638	N.D.		
39) Isopropyl Acetate	14.81	61	8029	0.783 ng	#	1
40) 1-Butanol	14.84	56	166226	9.908 ng	#	35
41) Benzene	14.87	78	359860	5.680 ng		99
42) Carbon Tetrachloride	15.10	117	15981	0.751 ng		99
43) Cyclohexane	15.29	84	72811	3.118 ng		94
44) tert-Amyl Methyl Ether	15.84	73	489	N.D.		
45) 1,2-Dichloropropane	16.10	63	272	N.D.		
46) Bromodichloromethane	16.38	83	26579	1.273 ng	#	49
47) Trichloroethene	16.43	130	706	N.D.		
48) 1,4-Dioxane	16.50	88	385	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	793178	11.000 ng		95
50) Methyl Methacrylate	16.76	100	104	N.D.		
51) n-Heptane	16.88	71	135399	8.245 ng		96
52) cis-1,3-Dichloropropene	17.64	75	497	N.D.		
53) 4-Methyl-2-pentanone	17.75	58	20864	1.442 ng		97
54) trans-1,3-Dichloropropene	18.36	75	1523	0.063 ng	#	54
55) 1,1,2-Trichloroethane	18.45	97	1285	0.087 ng	#	6
58) Toluene	18.98	91	2136398	32.369 ng		99
59) 2-Hexanone	19.35	43	71138m	1.764 ng		
60) Dibromochloromethane	19.53	129	1101	0.066 ng		79
61) 1,2-Dibromoethane	19.86	107	216	N.D.		
62) n-Butyl Acetate	20.16	43	152076	3.286 ng		94
63) n-Octane	20.27	57	44063	2.901 ng		98
64) Tetrachloroethene	20.46	166	528	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	21.82	91	511854	6.780 ng		99
67) m- & p-Xylenes	22.03	91	1230672	20.478 ng		98
68) Bromoform	22.14	173	90	N.D.		
69) Styrene	22.50	104	98049	2.216 ng		99
70) o-Xylene	22.65	91	448043	7.422 ng		98
71) n-Nonane	22.91	43	59675	1.645 ng		93
72) 1,1,2,2-Tetrachloroethane	22.63	83	1195	N.D.		
74) Cumene	23.40	105	137160	1.793 ng		96
75) alpha-Pinene	23.90	93	4991725	125.780 ng	see 6/1	88
76) n-Propylbenzene	24.04	91	135895	1.398 ng		89
77) 3-Ethyltoluene	24.17	105	376734	5.147 ng		99
78) 4-Ethyltoluene	24.22	105	178322	2.469 ng		100
79) 1,3,5-Trimethylbenzene	24.31	105	125336	2.085 ng		100

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 11:44 pm
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 20:12:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

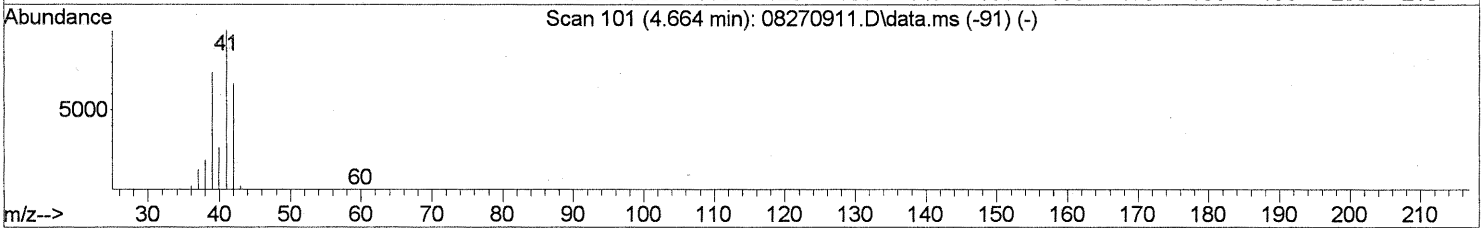
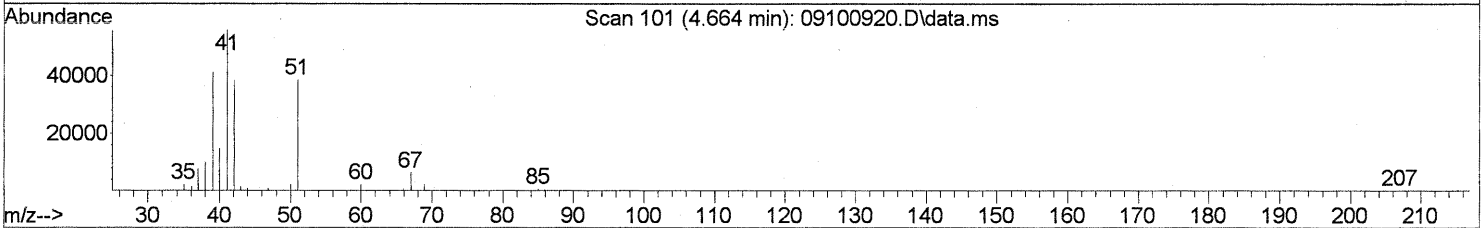
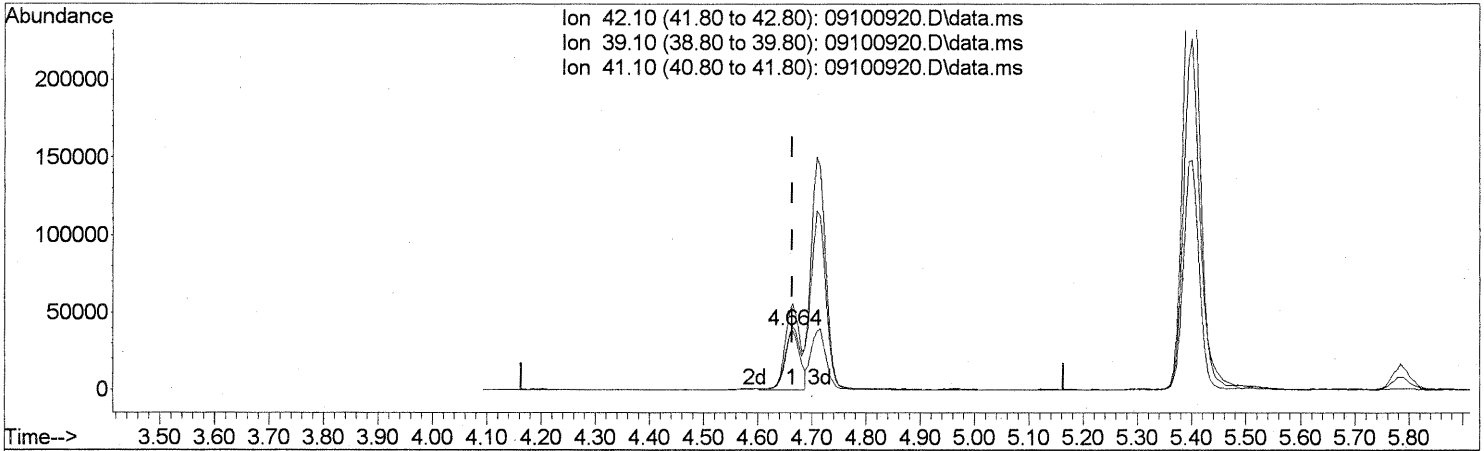
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	3572	0.113	ng #	57
81) 2-Ethyltoluene	24.55	105	113368	1.509	ng	98
82) 1,2,4-Trimethylbenzene	24.82	105	466548	7.602	ng	90
83) n-Decane	24.93	57	52259	1.426	ng	93
84) Benzyl Chloride	24.99	91	2833	N.D.		
85) 1,3-Dichlorobenzene	25.02	146	851	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	7134	0.207	ng	99
87) sec-Butylbenzene	25.16	105	7413	0.088	ng #	75
88) 4-Isopropyltoluene (p-...	25.35	119	155341	2.056	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	103804	1.614	ng	95
90) 1,2-Dichlorobenzene	25.53	146	454	N.D.		
91) d-Limonene	25.53	68	750199	30.620	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.46	157	87	N.D.		
93) n-Undecane	26.45	57	57754	1.518	ng	84
94) 1,2,4-Trichlorobenzene	27.58	180	1087	N.D.		
95) Naphthalene	27.72	128	137864	1.625	ng	94
96) n-Dodecane	27.69	57	74587	1.720	ng	95
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	127355	5.005	ng #	92
99) tert-Butylbenzene	25.27	119	17479	0.294	ng	98
100) n-Butylbenzene	25.86	91	59693	0.873	ng #	59

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

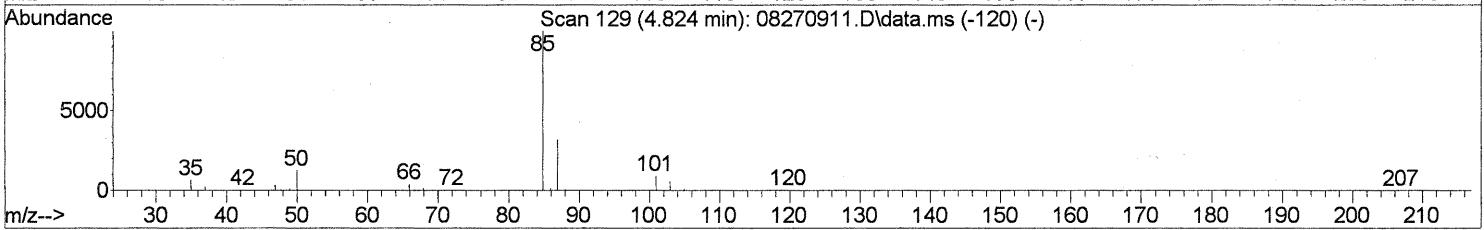
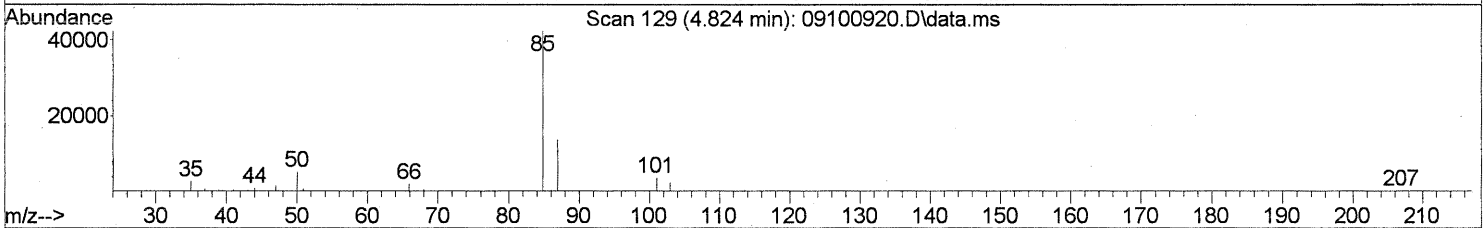
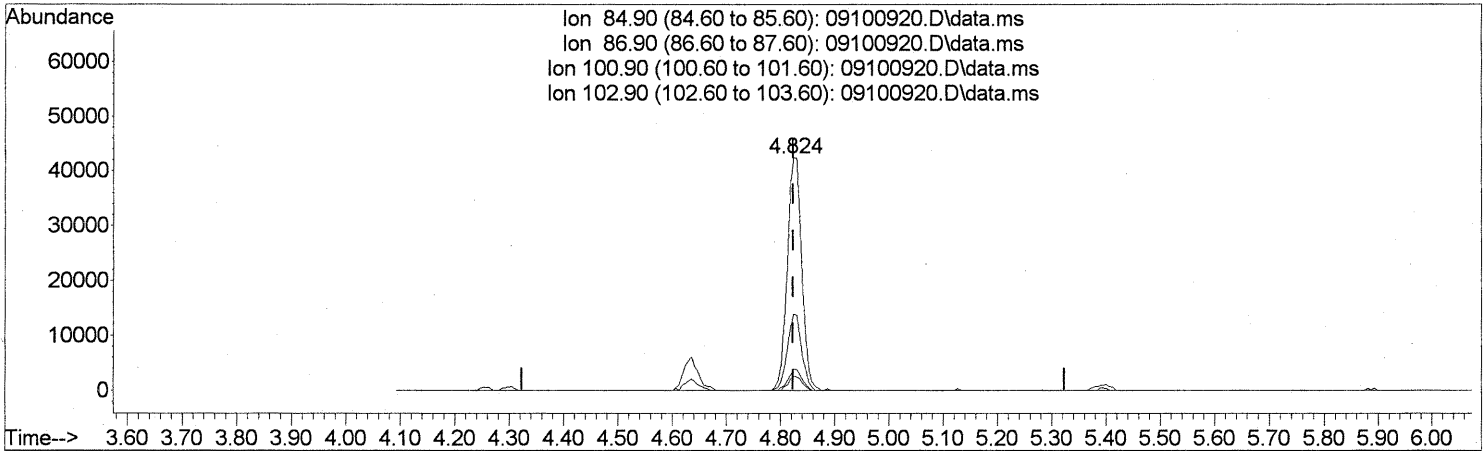
(2) Propene (T)
 4.664min (+0.000) 3.69ng
 response 72037

Ion	Exp%	Act%
42.10	100	100
39.10	109.70	103.52
41.10	149.80	138.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

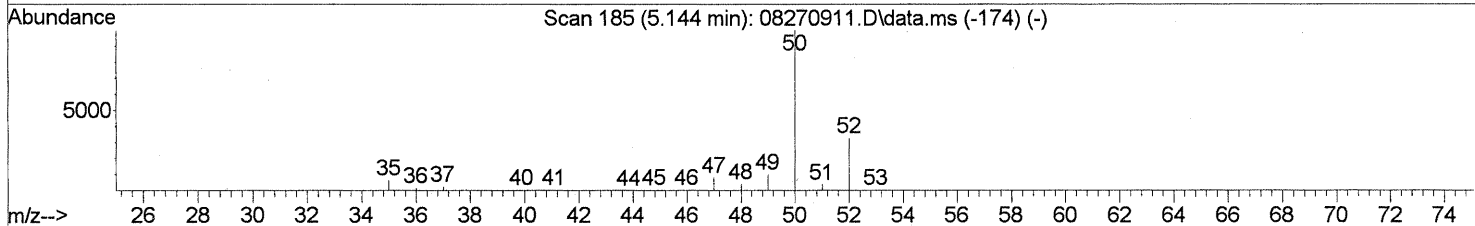
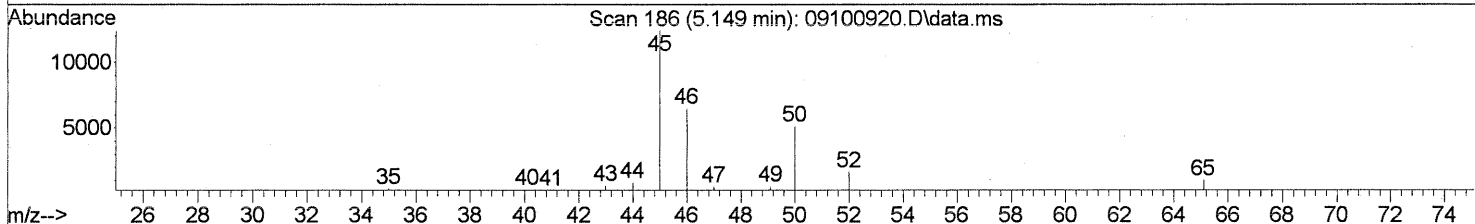
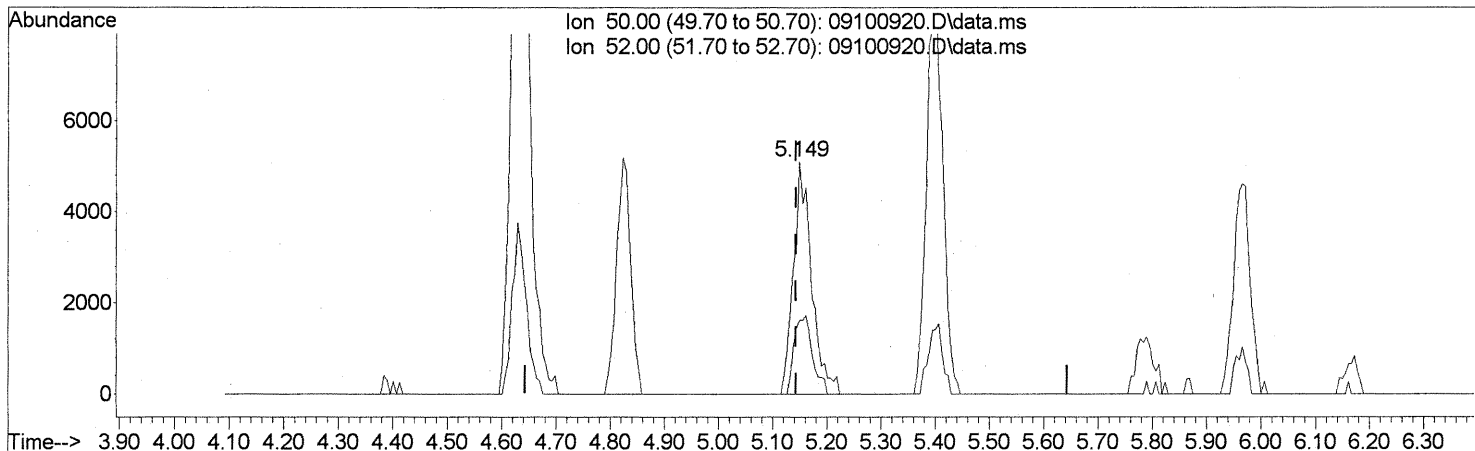
(3) Dichlorodifluoromethane (CFC 12) (T)
 4.824min (+0.000) 2.30ng
 response 78630

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.63
100.90	8.80	8.54
102.90	5.60	5.61

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

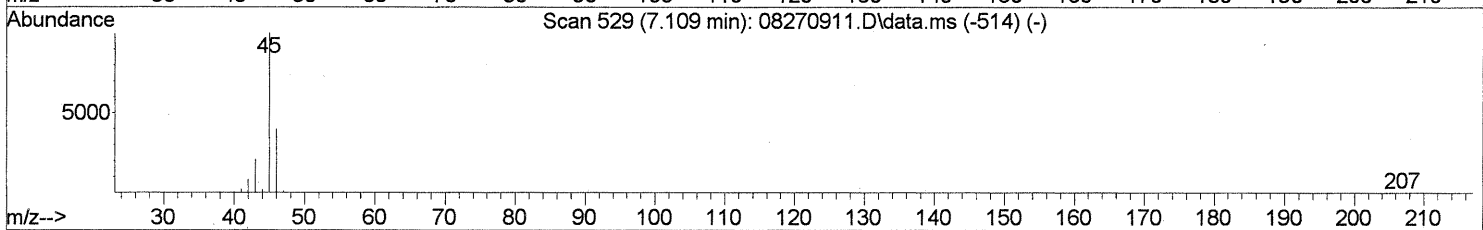
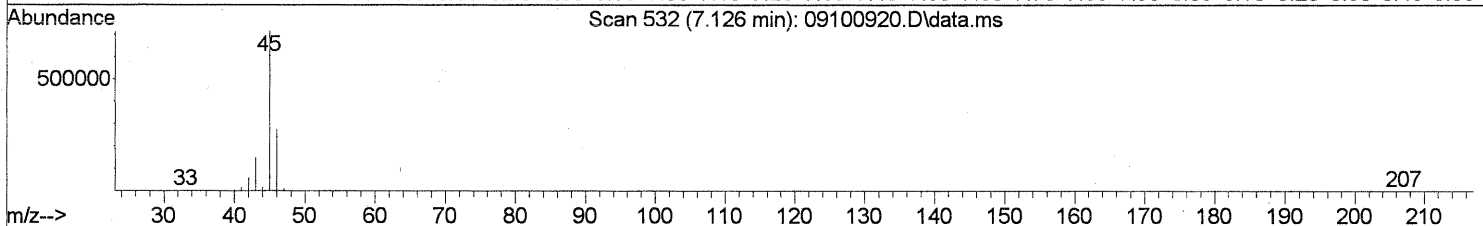
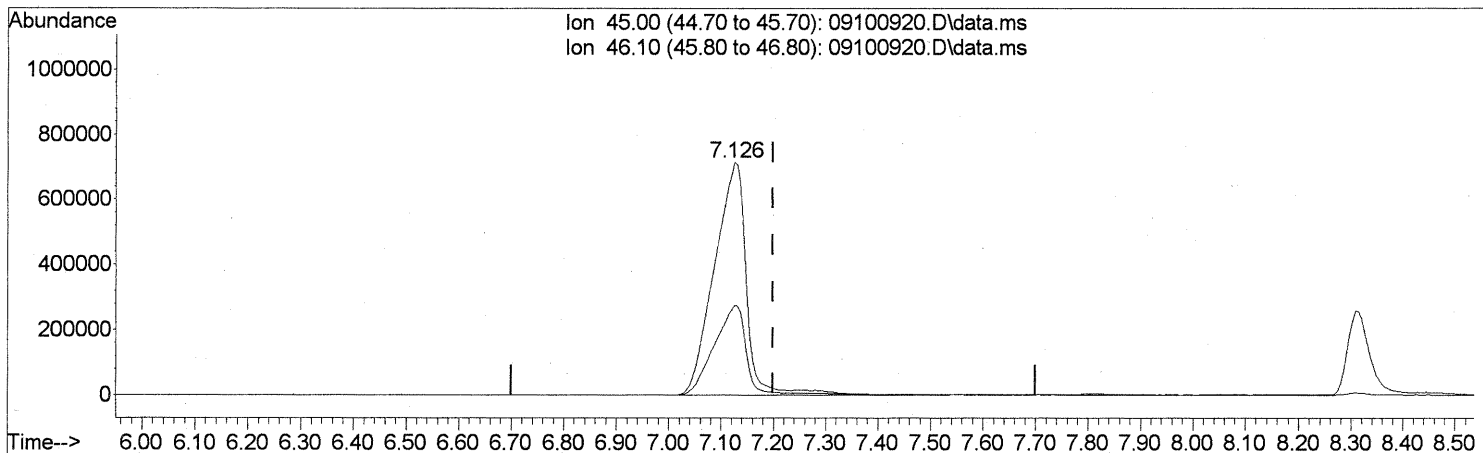
(4) Chloromethane (T)
 5.149min (+0.006) 0.51ng
 response 11779

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	34.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

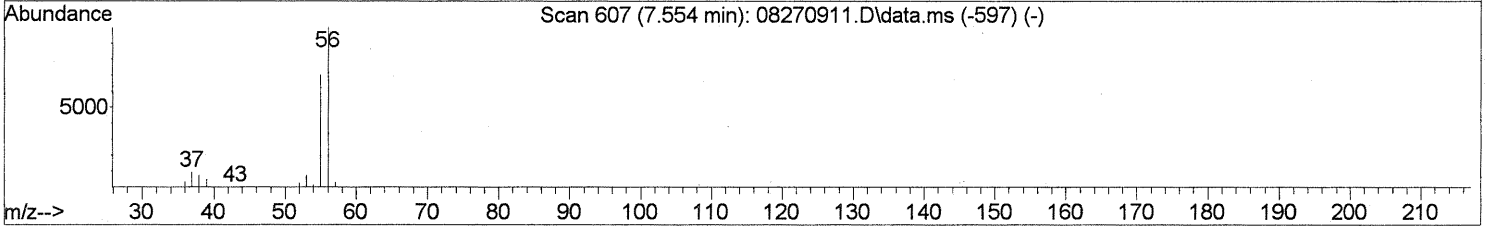
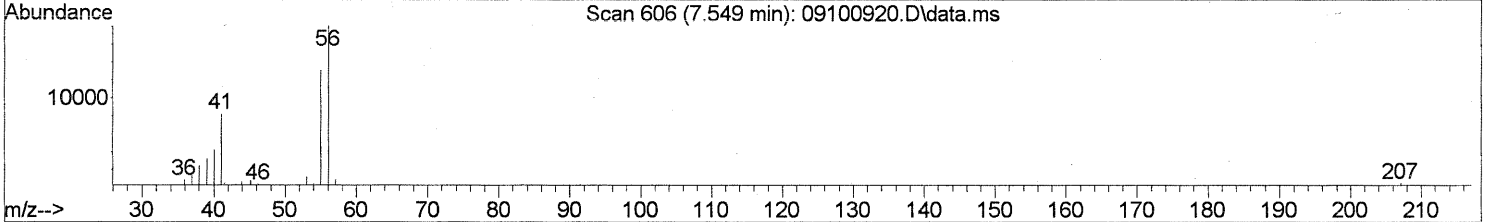
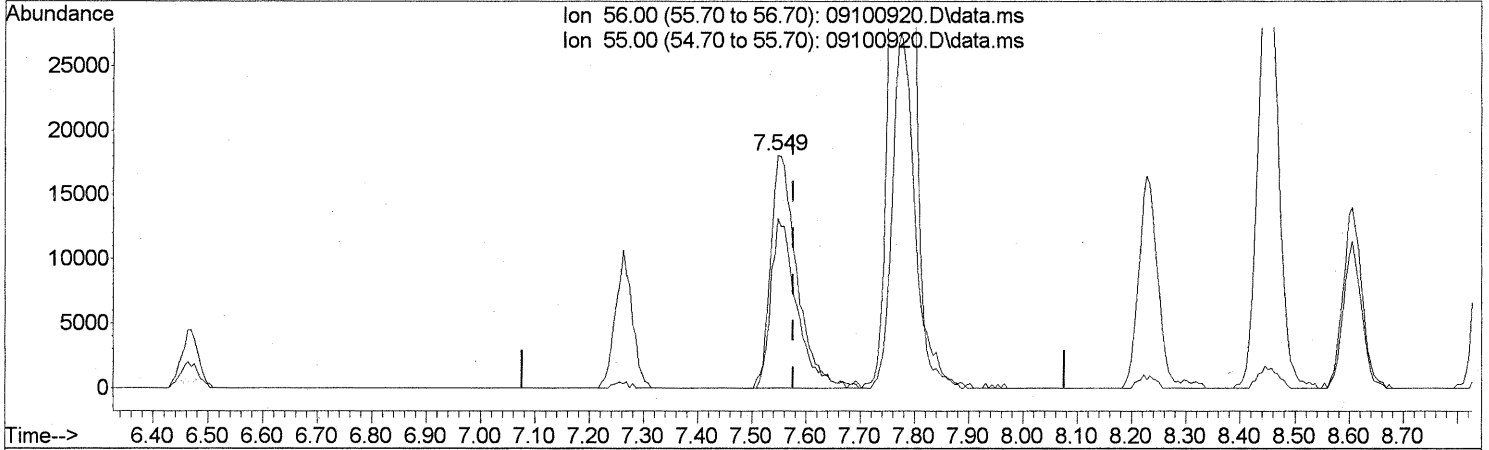
(10) Ethanol (T)
 7.126min (-0.074) 253.42ng
 response 3063744

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	38.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

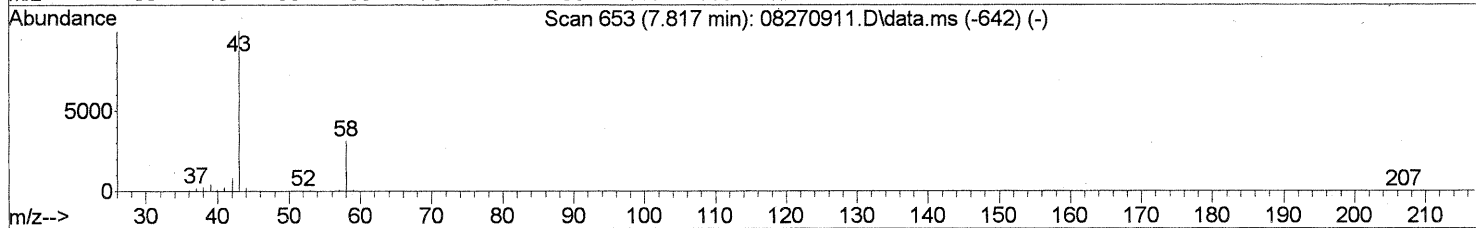
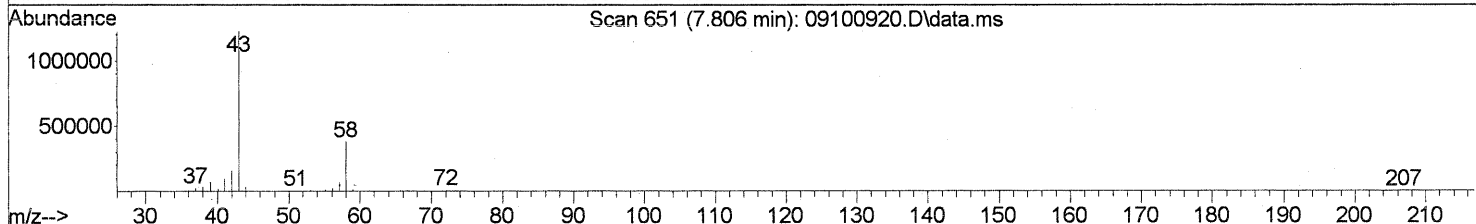
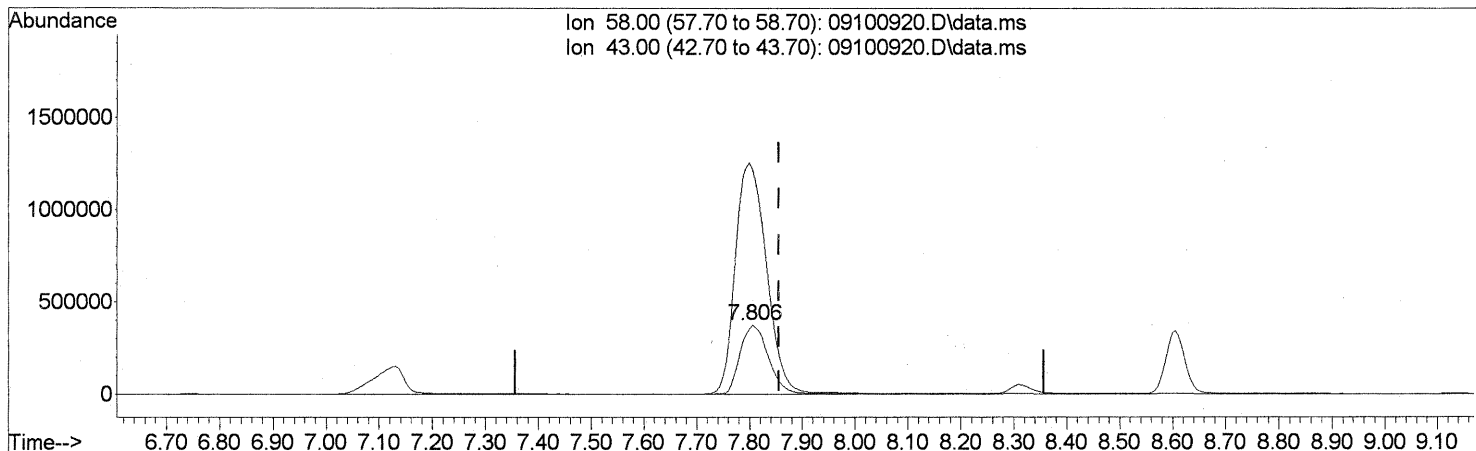
(12) Acrolein (T)
 7.549min (-0.028) 6.59ng
 response 60804

Ion	Exp%	Act%
56.00	100	100
55.00	71.10	70.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

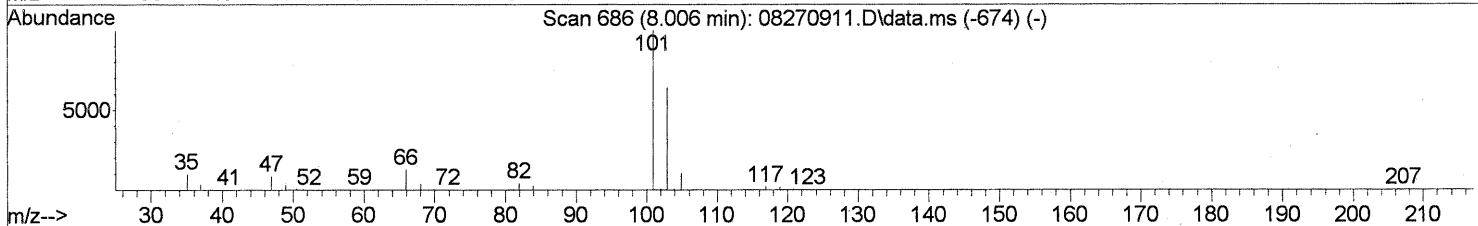
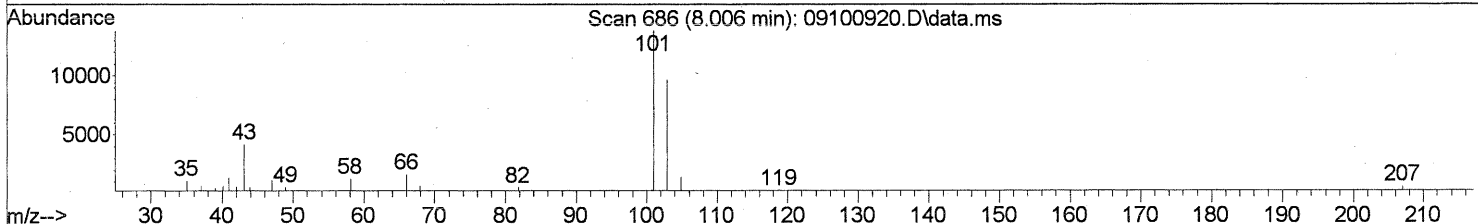
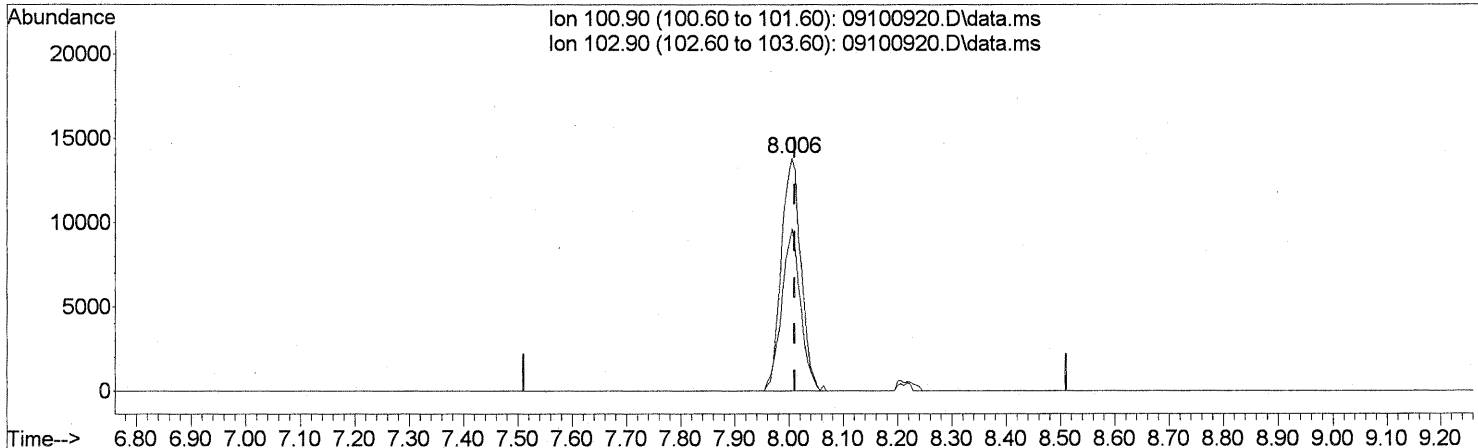
(13) Acetone (T)
 7.806min (-0.051) 111.05ng
 response 1388423

Ion	Exp%	Act%
58.00	100	100
43.00	331.30	373.13#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

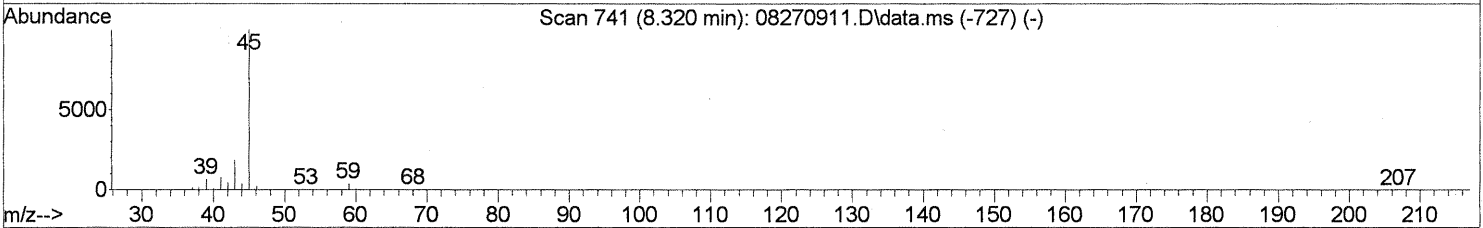
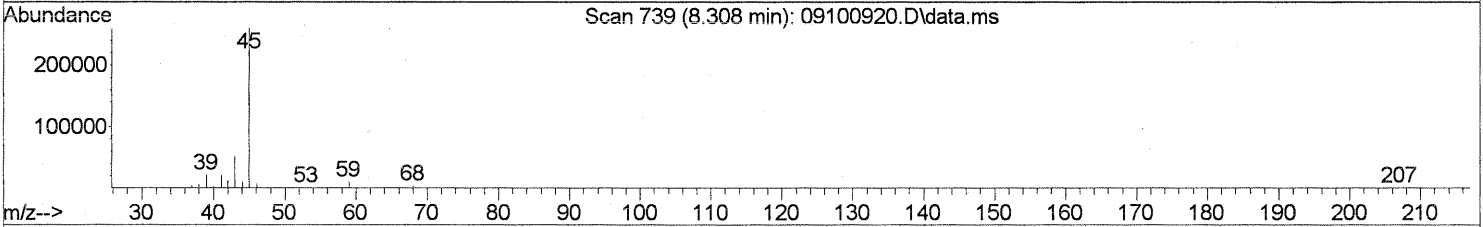
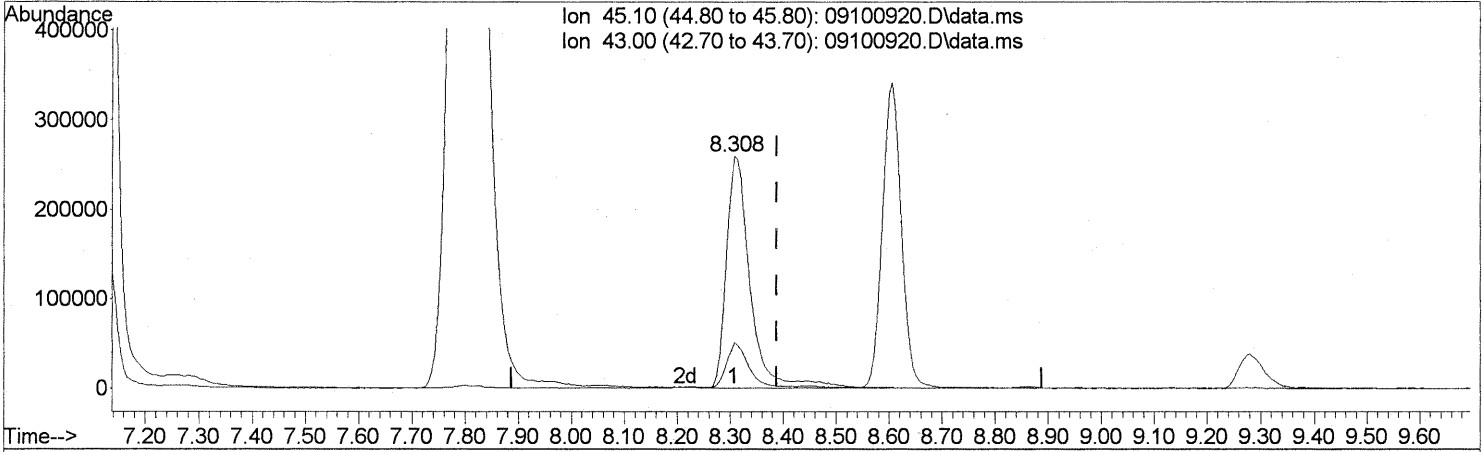
(14) Trichlorofluoromethane (T)
 8.006min (-0.006) 1.16ng
 response 34875

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	66.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

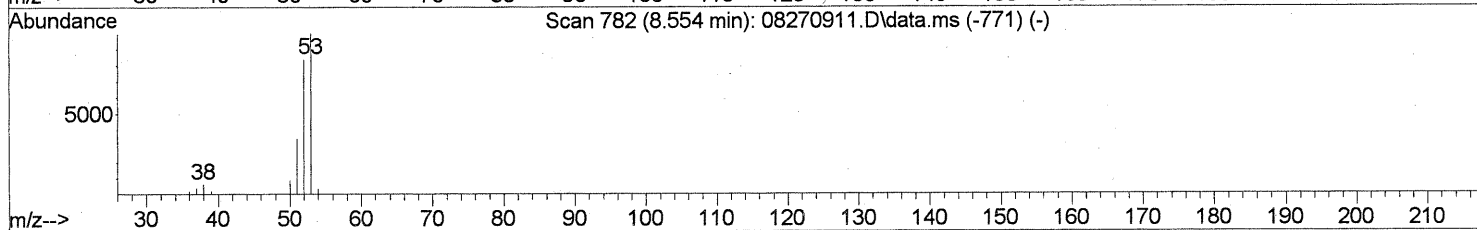
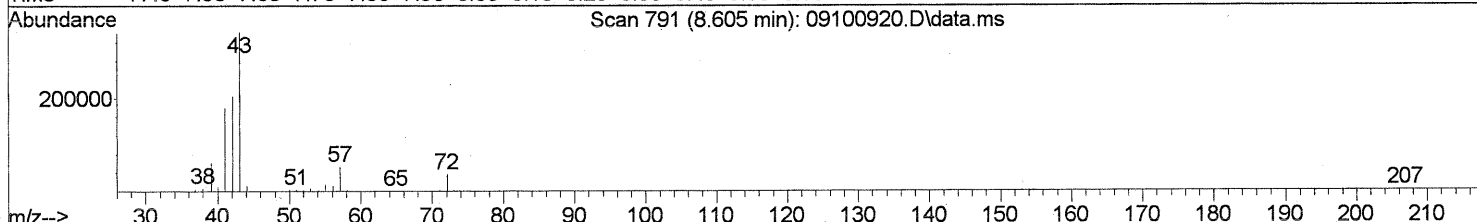
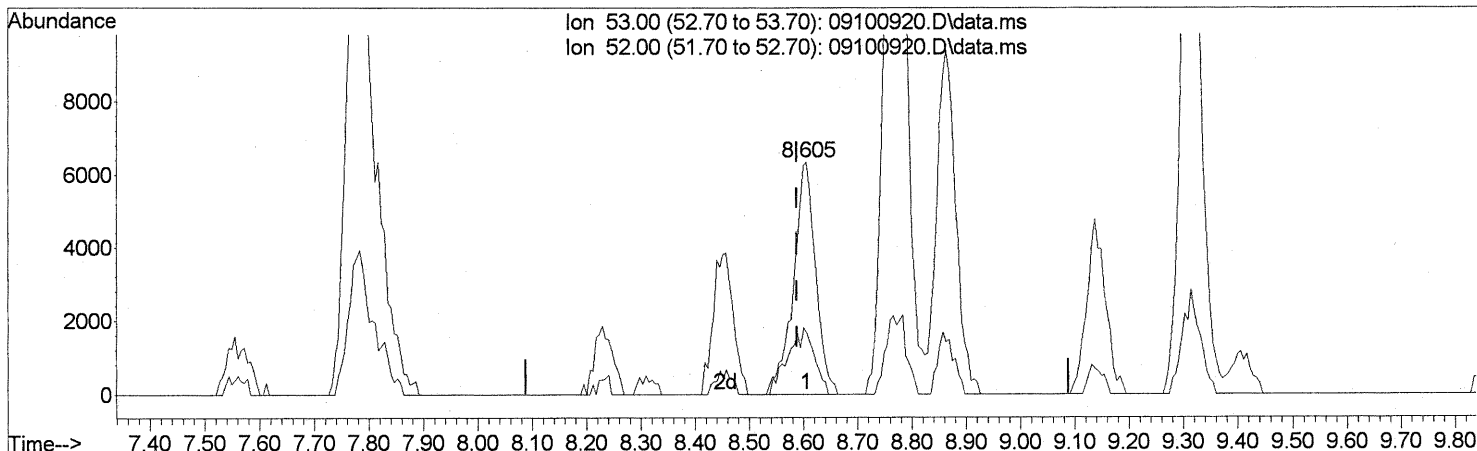
(15) 2-Propanol (Isopropanol) (T)
 8.308min (-0.080) 19.55ng
 response 812712

Ion	Exp%	Act%
45.10	100	100
43.00	18.70	18.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

(16) Acrylonitrile (T)
 8.605min (+0.017) 0.87ng
 response 17955

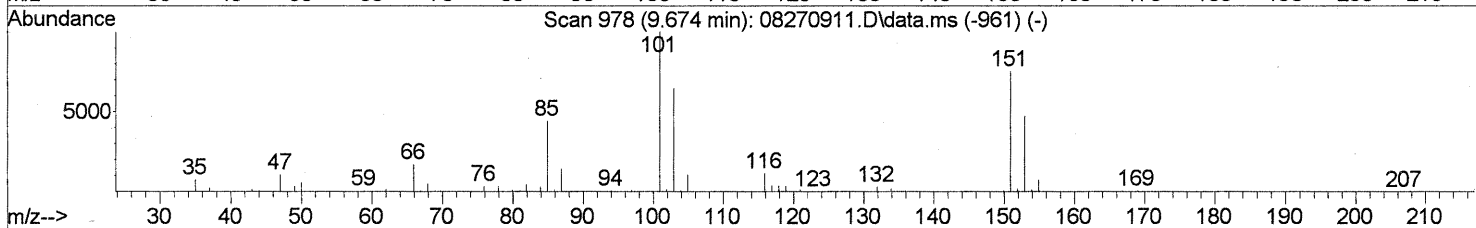
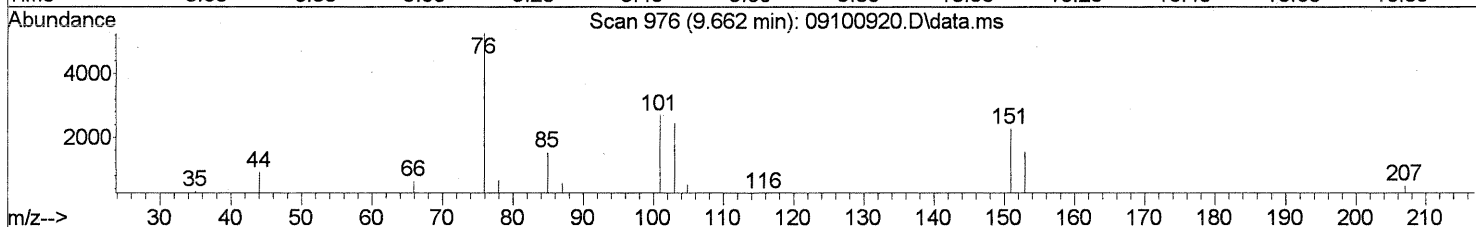
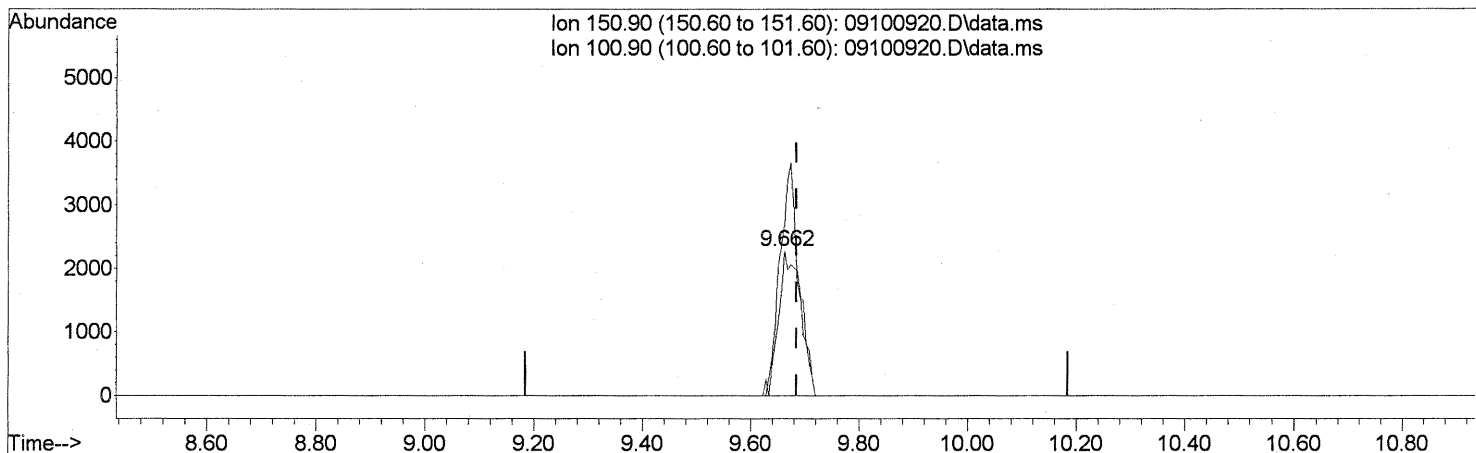
Ion	Exp%	Act%
53.00	100	100
52.00	80.50	34.74#
0.00	0.00	0.00
0.00	0.00	0.00

FP
LM 9/20/09
Em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.662min (-0.023) 0.54ng

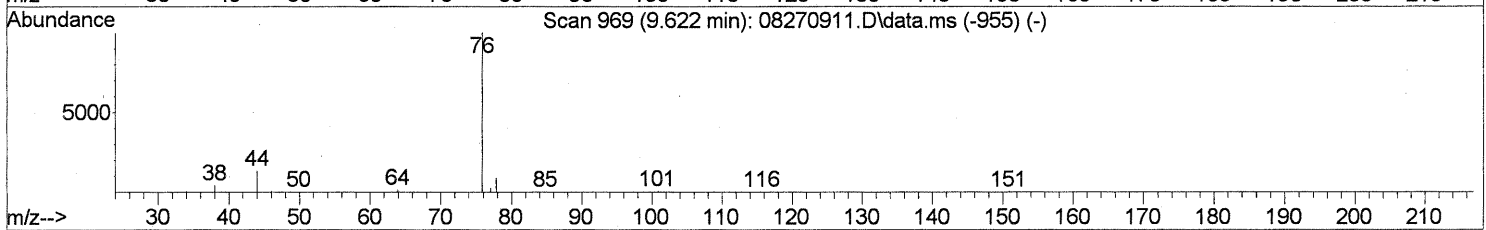
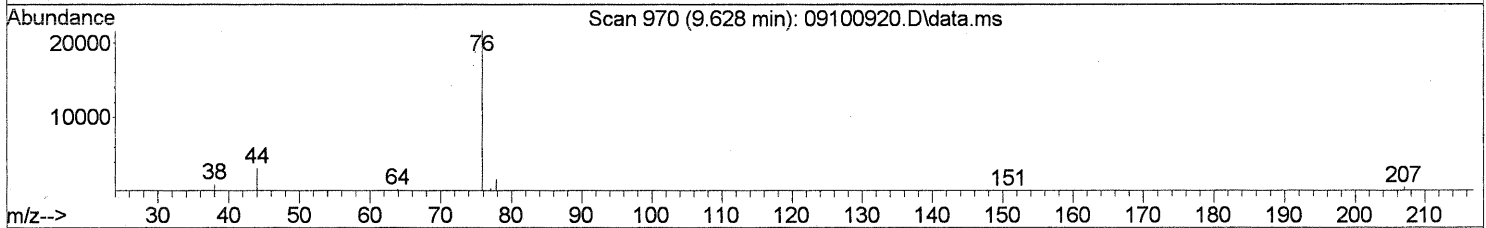
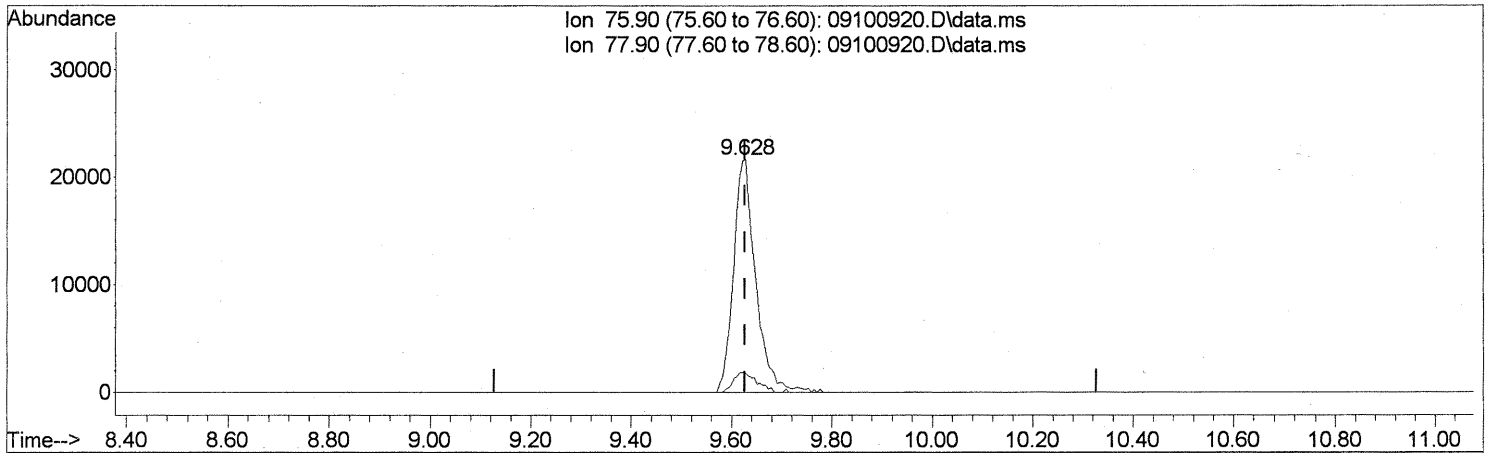
response 6458

Ion	Exp%	Act%
150.90	100	100
100.90	138.30	136.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

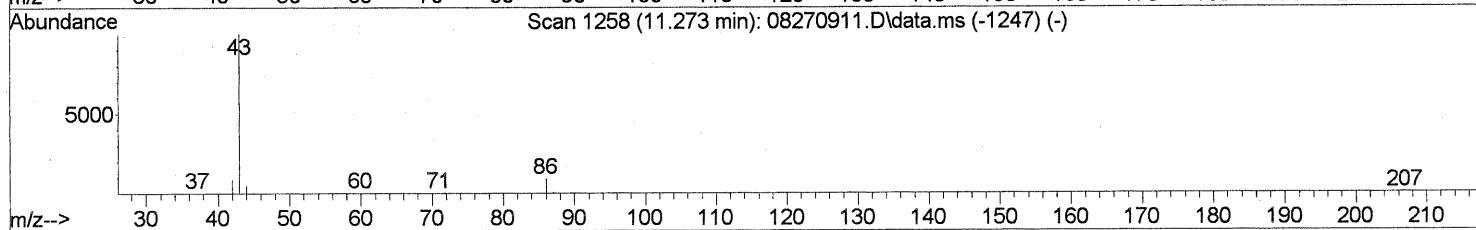
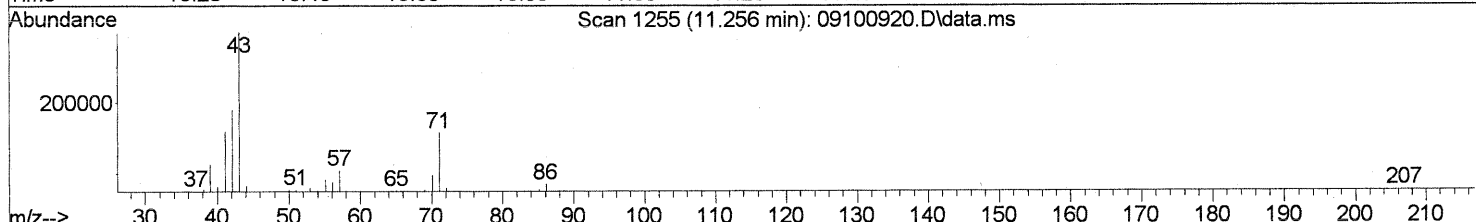
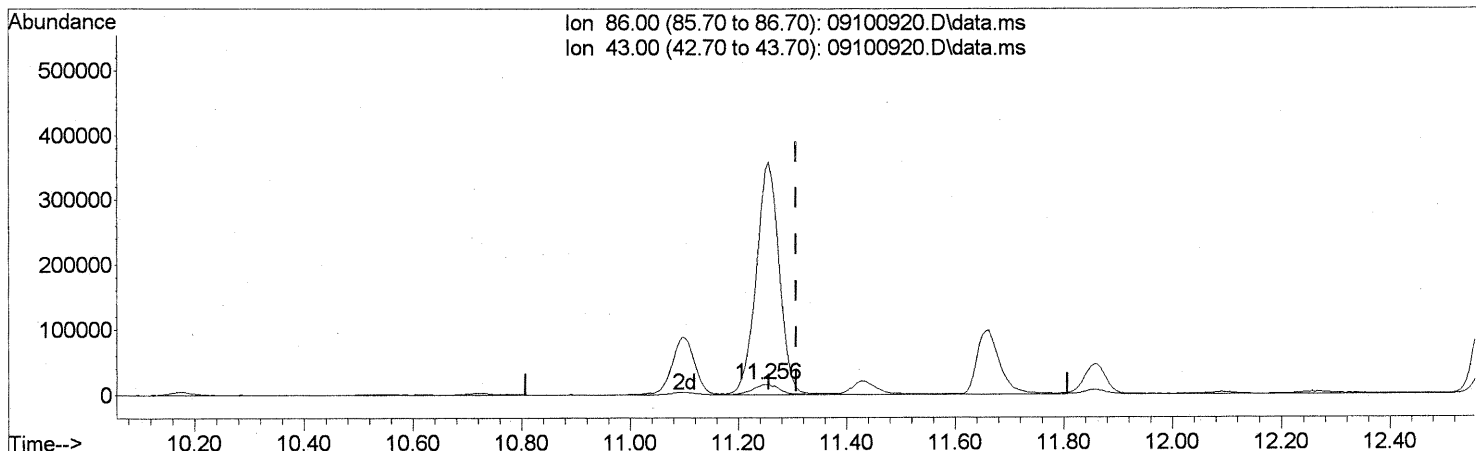
(22) Carbon Disulfide (T)
 9.628min (+0.000) 1.17ng
 response 65918

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

(26) Vinyl Acetate (T)
 11.256min (-0.051) 16.41ng
 response 51411

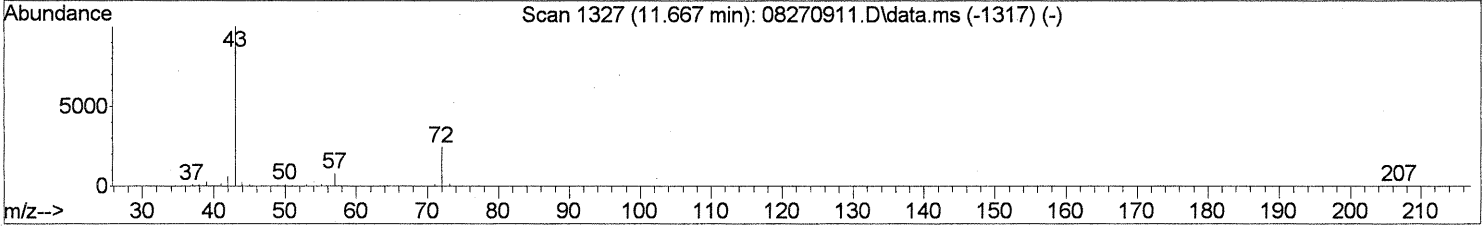
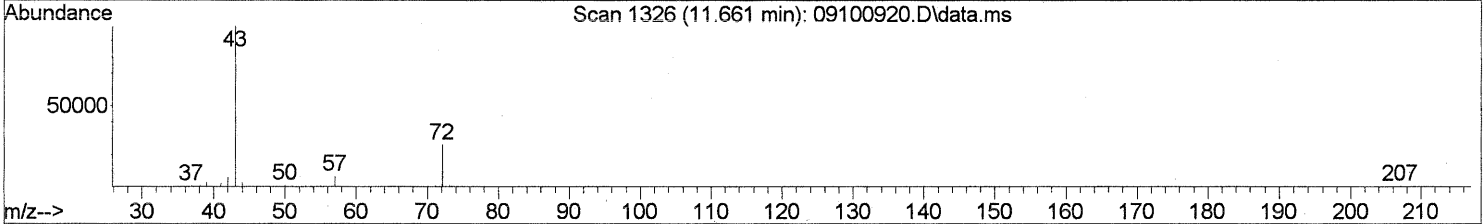
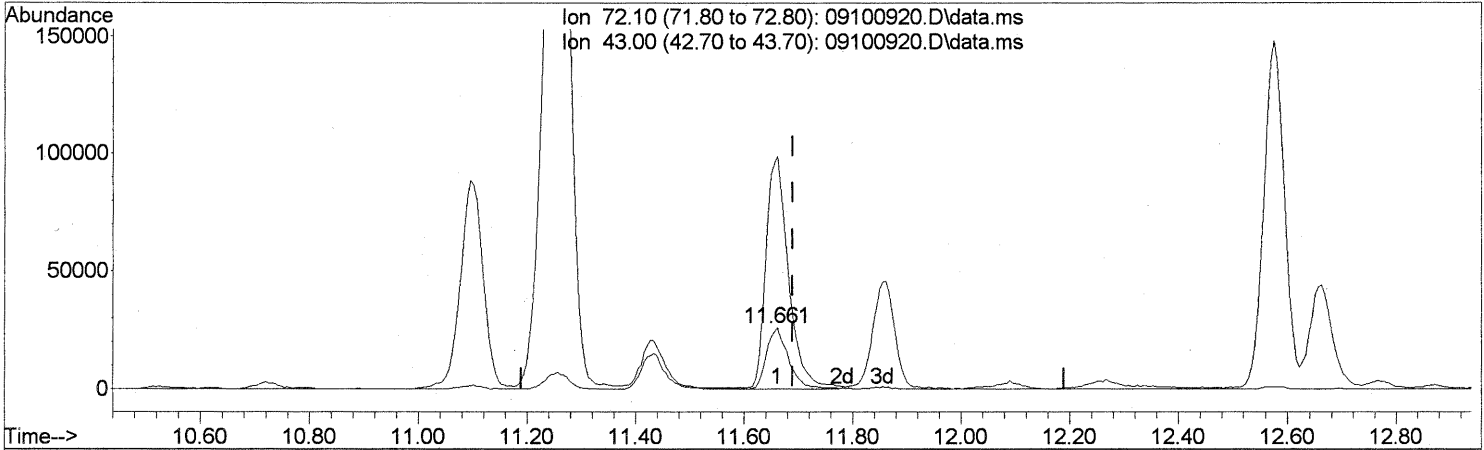
Ion	Exp%	Act%
86.00	100	100
43.00	1118.60	2047.41#
0.00	0.00	0.00
0.00	0.00	0.00

FP
 11/9/20/09
 em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

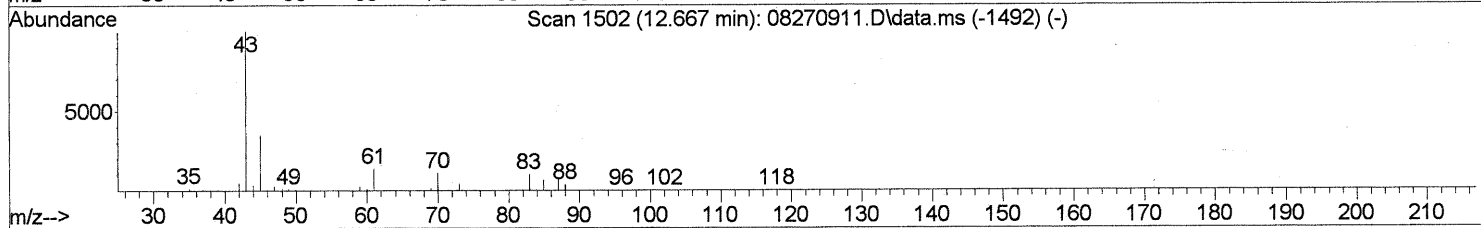
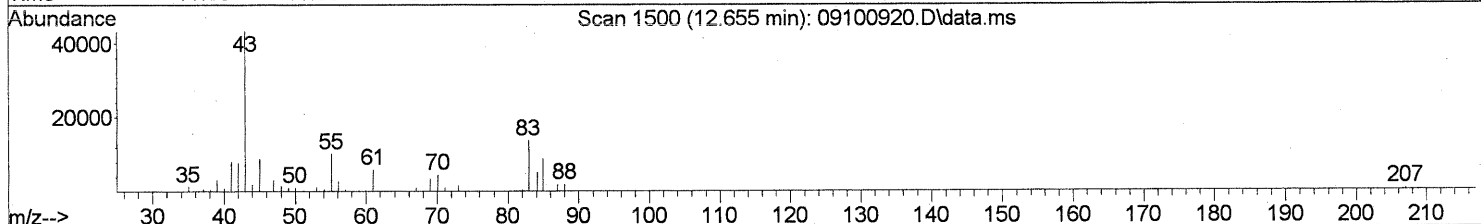
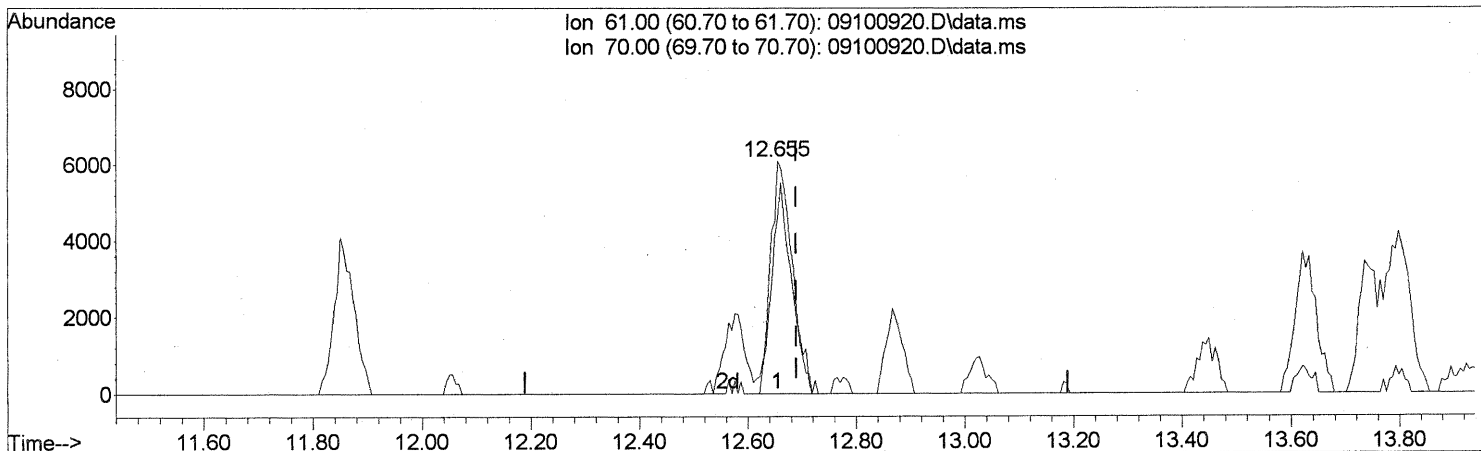
(27) 2-Butanone (MEK) (T)
 11.661min (-0.029) 7.15ng
 response 72209

Ion	Exp%	Act%
72.10	100	100
43.00	424.60	391.88#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

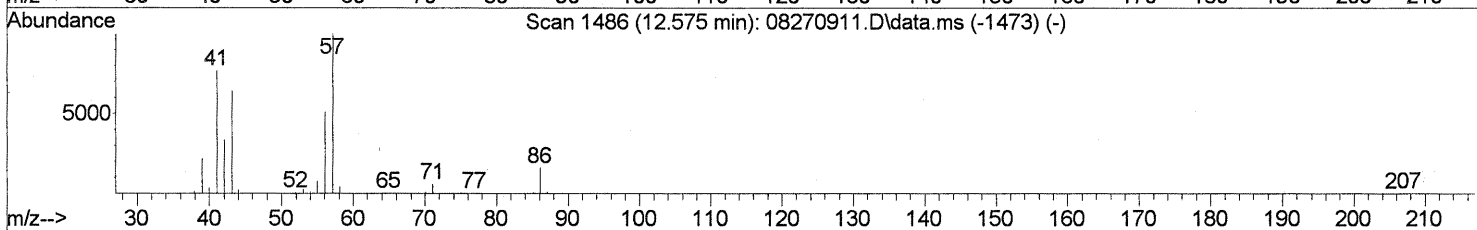
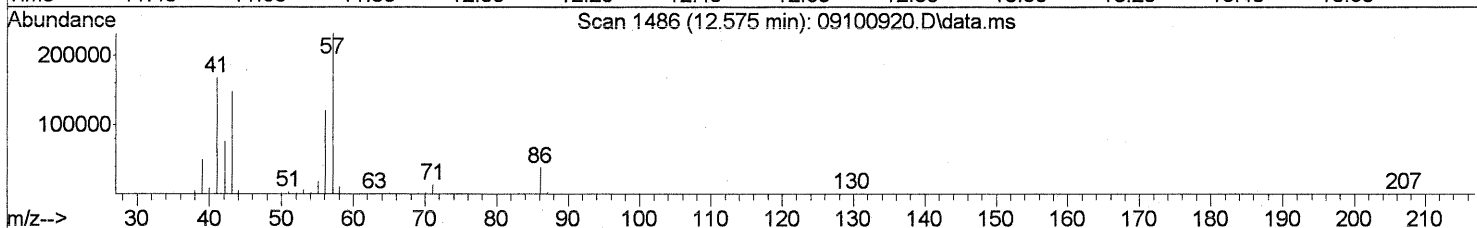
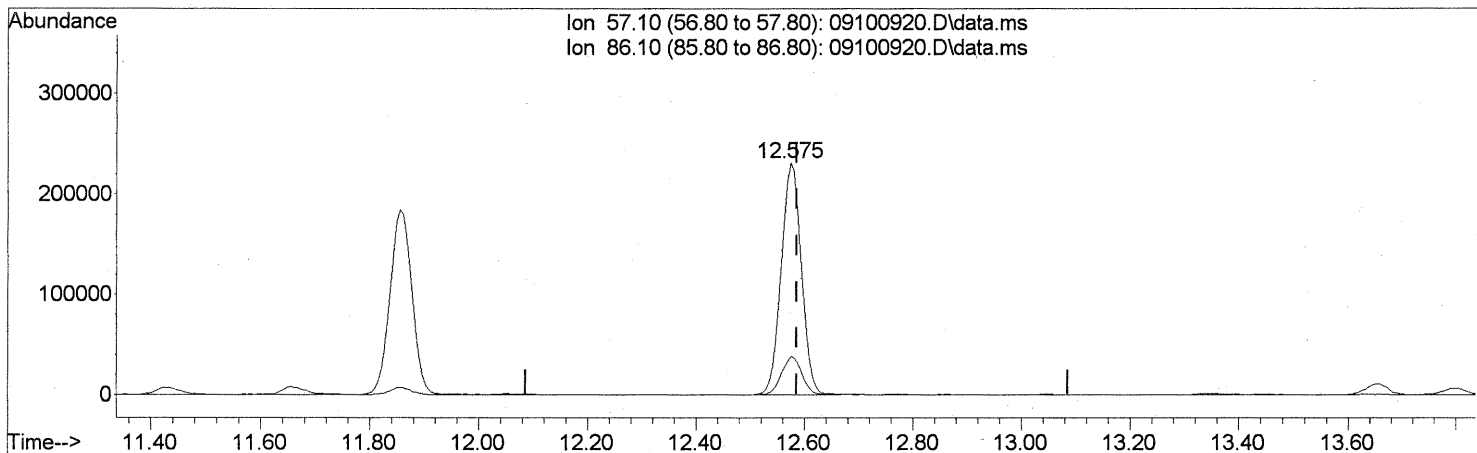
(30) Ethyl Acetate (T)
 12.655min (-0.034) 3.07ng
 response 16664

Ion	Exp%	Act%
61.00	100	100
70.00	78.70	86.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

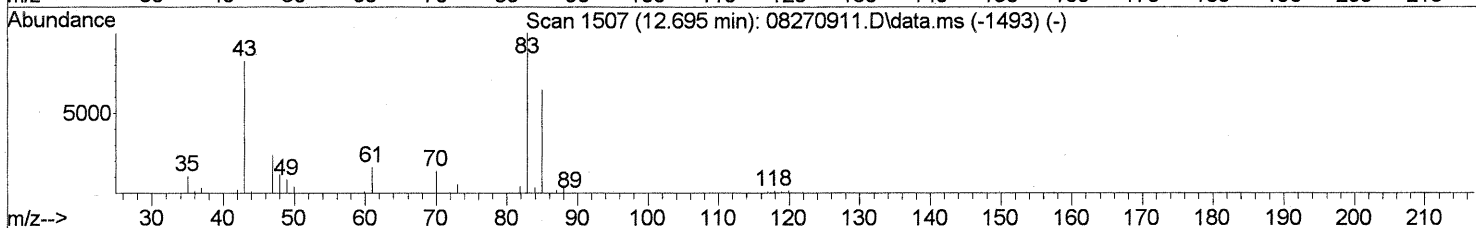
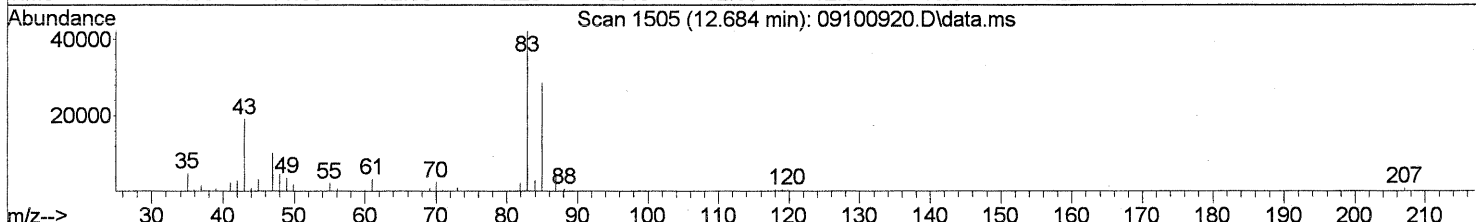
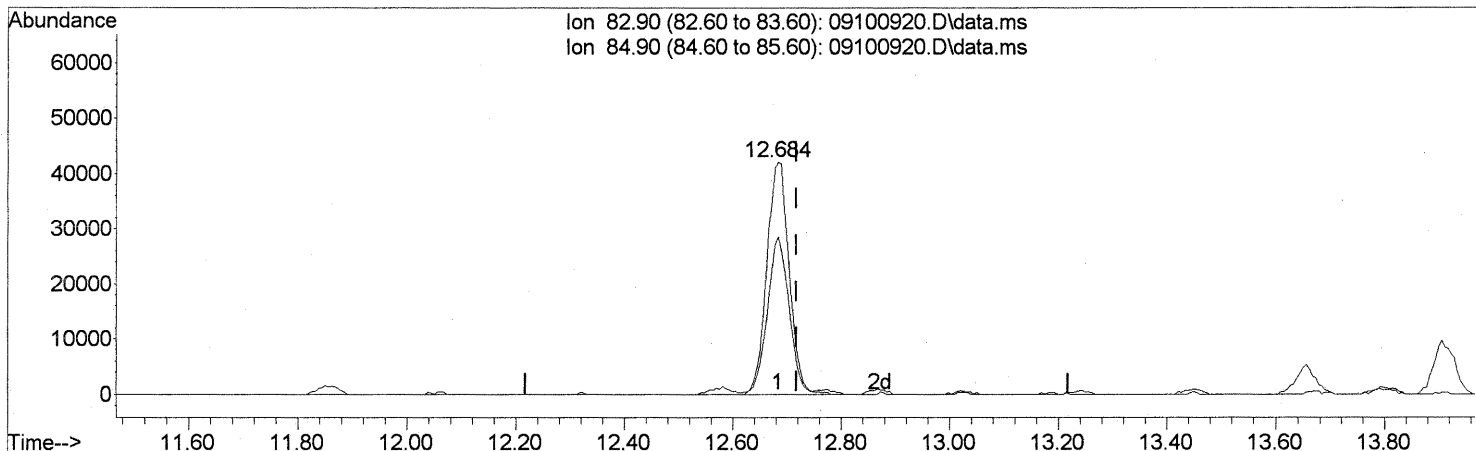
(31) n-Hexane (T)
 12.575min (-0.011) 22.00ng
 response 594759

Ion	Exp%	Act%
57.10	100	100
86.10	15.40	16.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

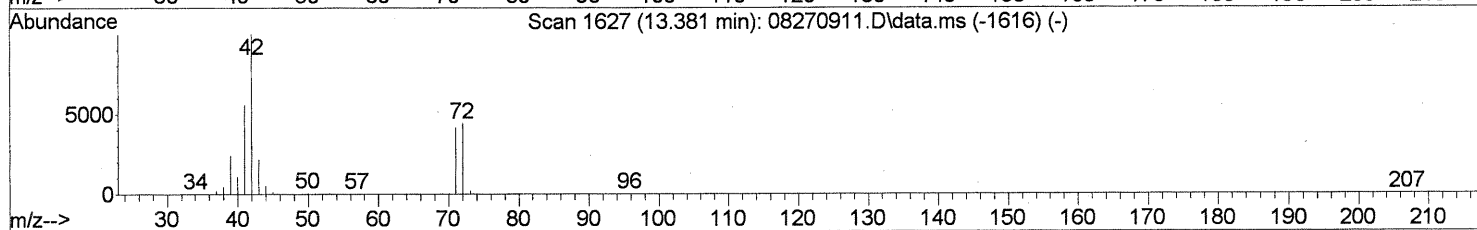
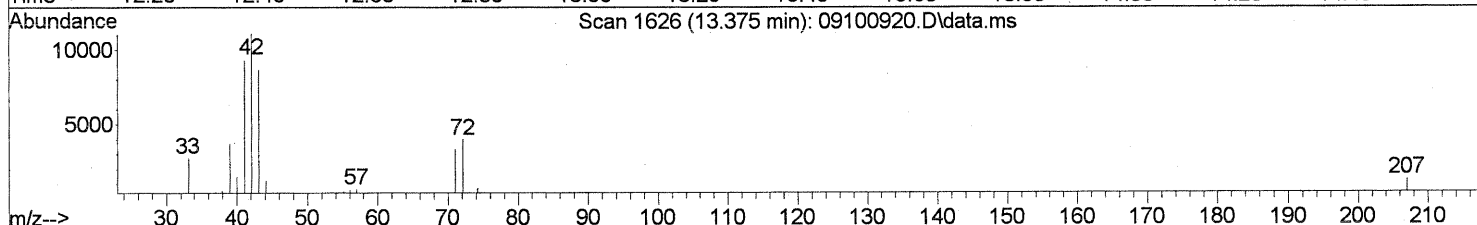
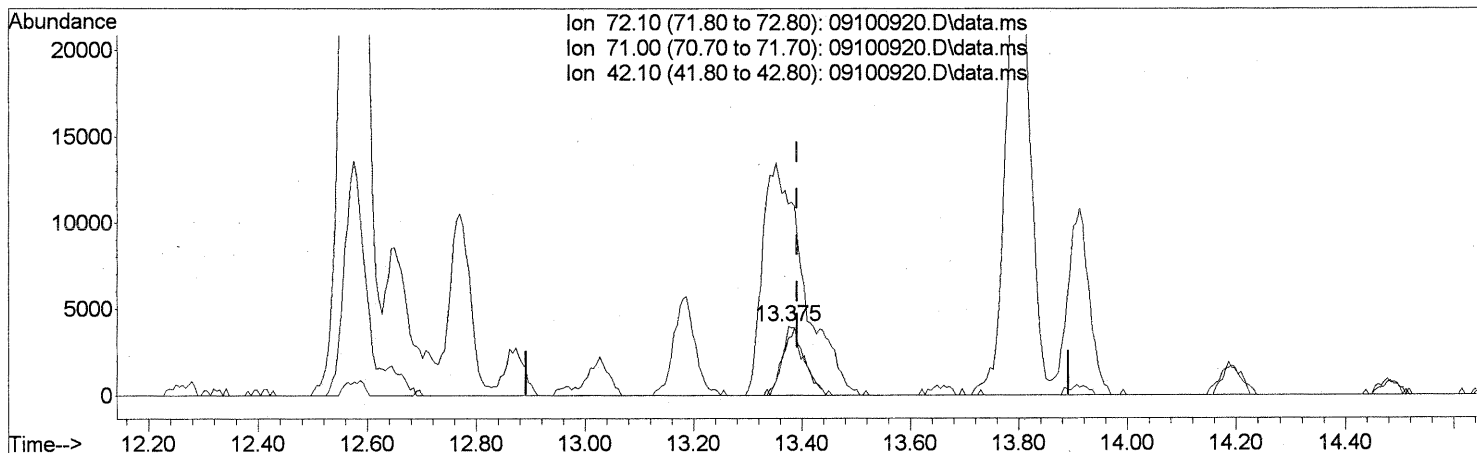
(32) Chloroform (T)
 12.684min (-0.034) 4.54ng
 response 120862

Ion	Exp%	Act%
82.90	100	100
84.90	62.60	67.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.375min (-0.017) 1.04ng

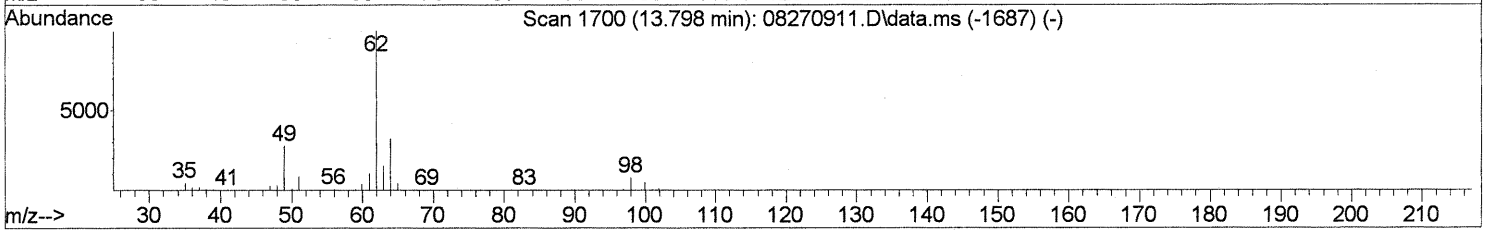
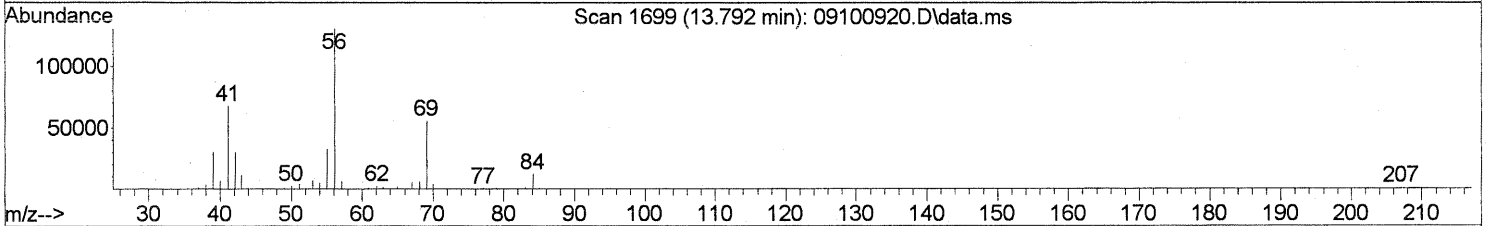
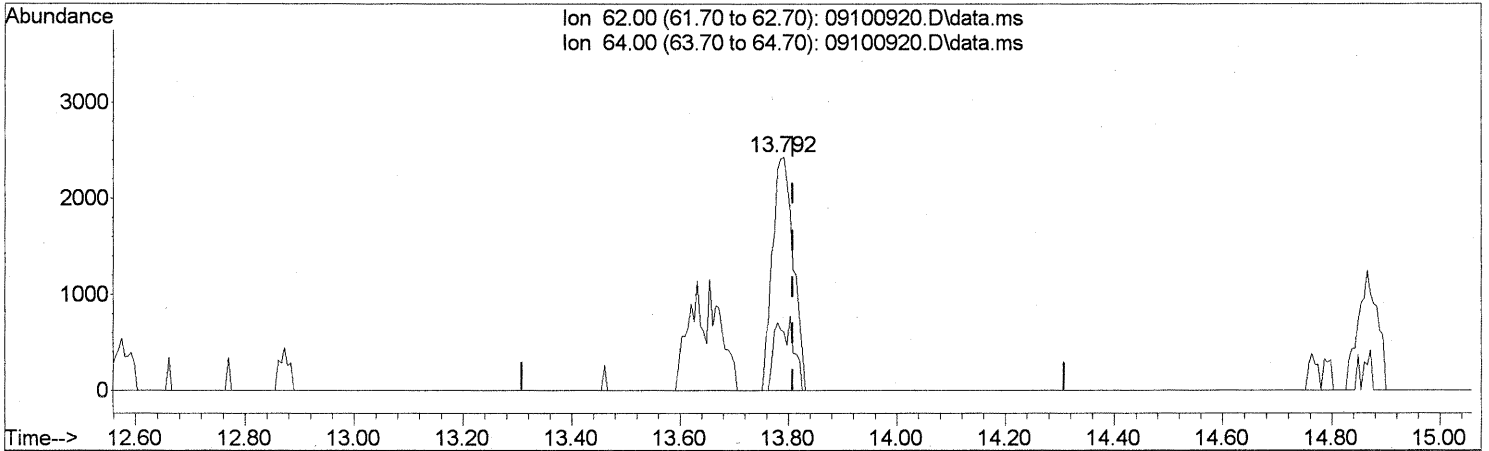
response 11383

Ion	Exp%	Act%
72.10	100	100
71.00	92.50	93.08
42.10	254.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

(36) 1,2-Dichloroethane (T)
 13.792min (-0.017) 0.29ng
 response 6533

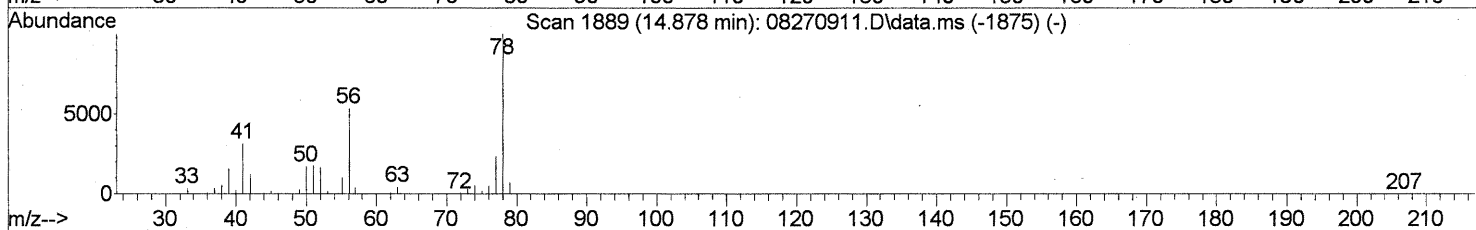
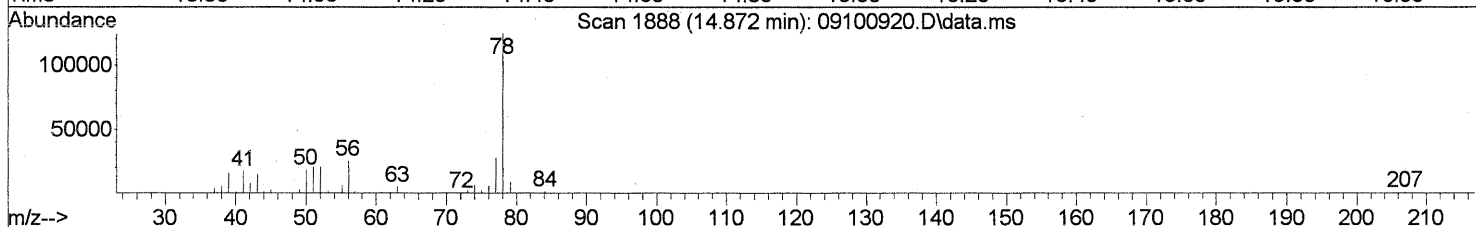
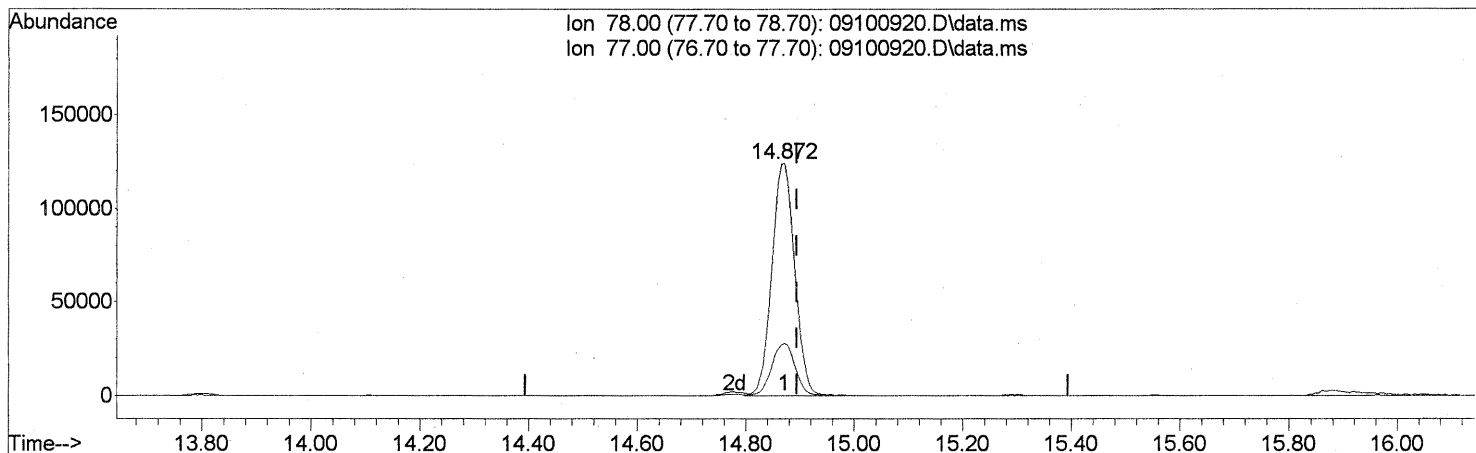
Ion	Exp%	Act%
62.00	100	100
64.00	33.10	27.20
0.00	0.00	0.00
0.00	0.00	0.00

FP
lm 9/20/09
em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

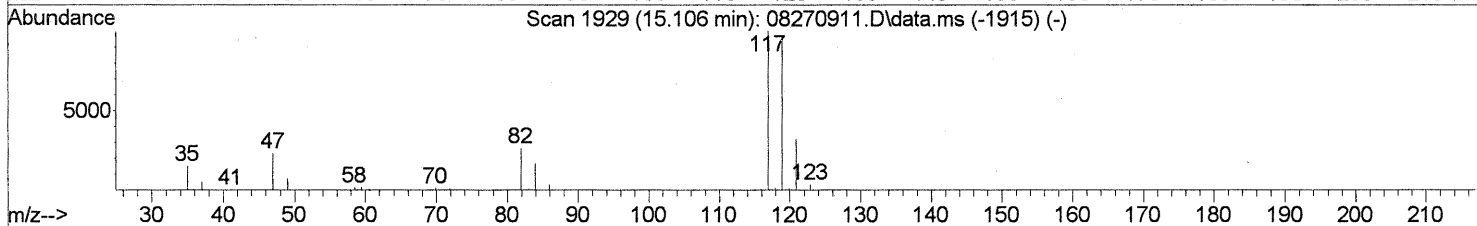
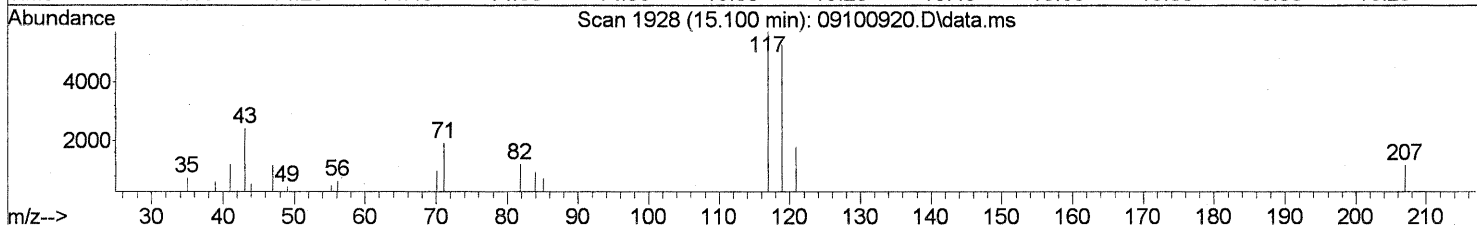
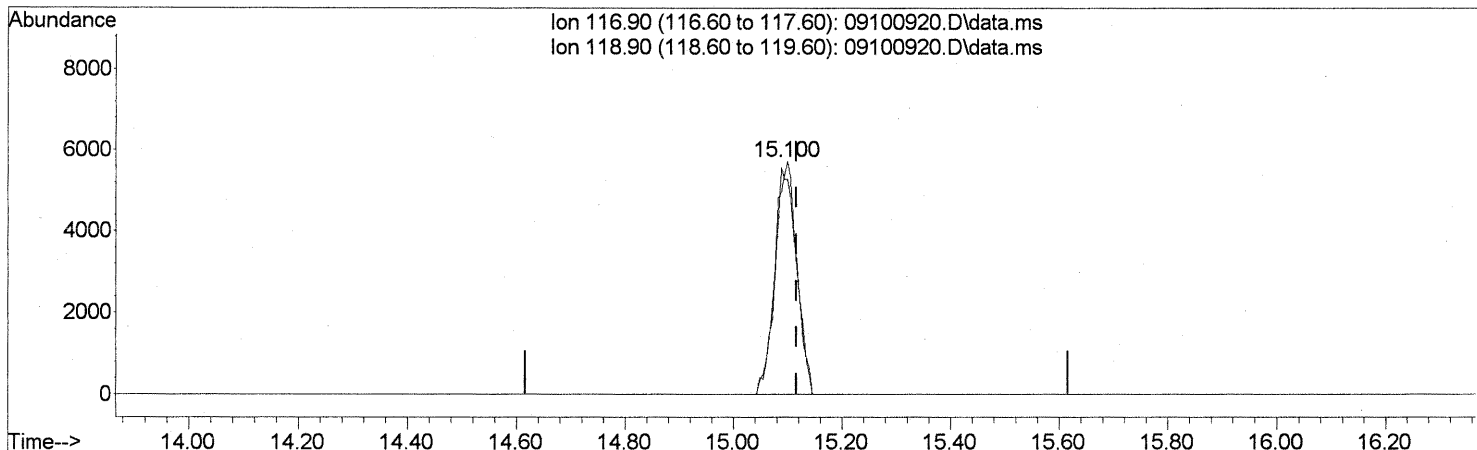
(41) Benzene (T)
 14.872min (-0.023) 5.68ng
 response 359860

Ion	Exp%	Act%
78.00	100	100
77.00	23.20	22.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

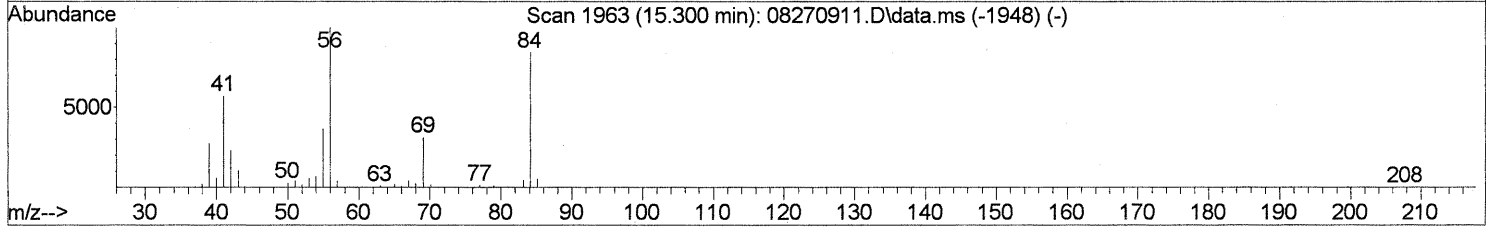
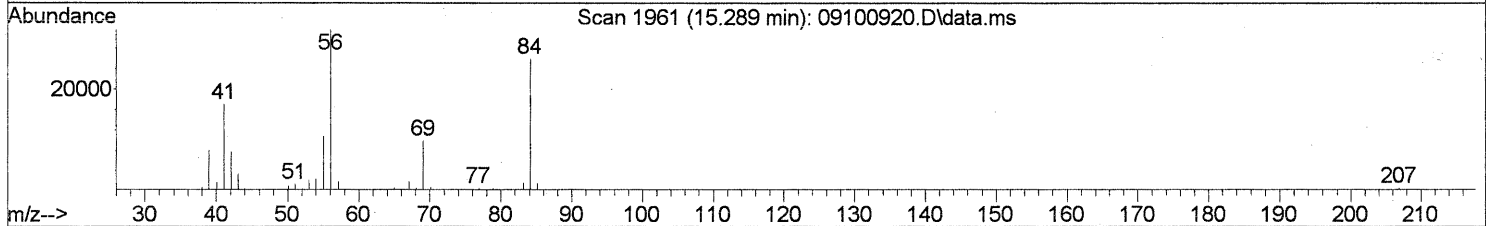
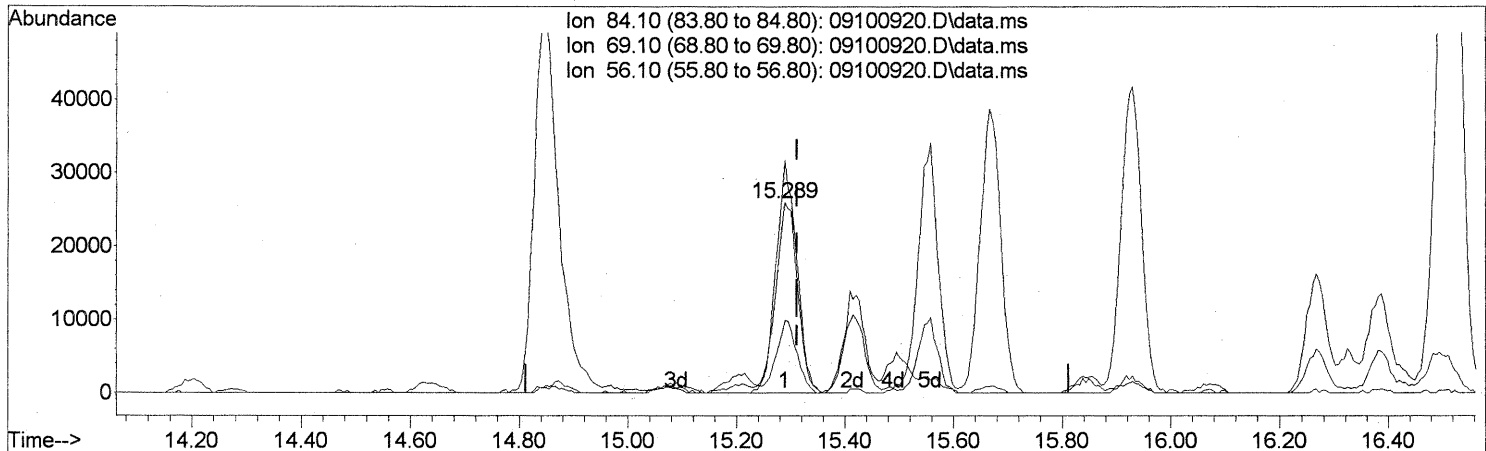
(42) Carbon Tetrachloride (T)
 15.100min (-0.017) 0.75ng
 response 15981

Ion	Exp%	Act%
116.90	100	100
118.90	96.20	97.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

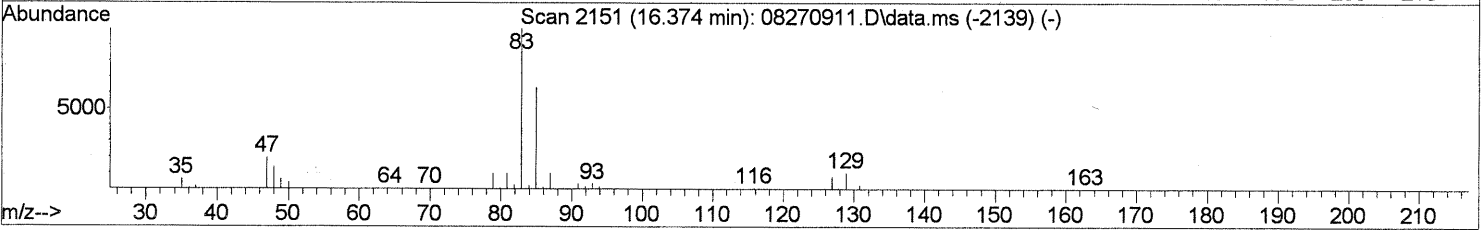
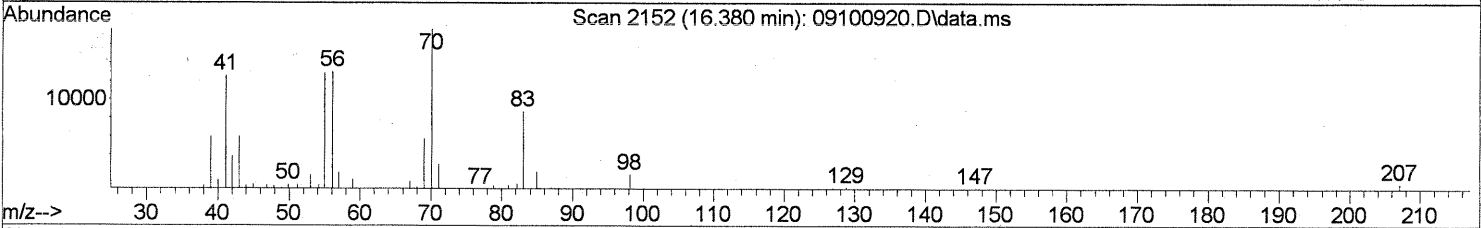
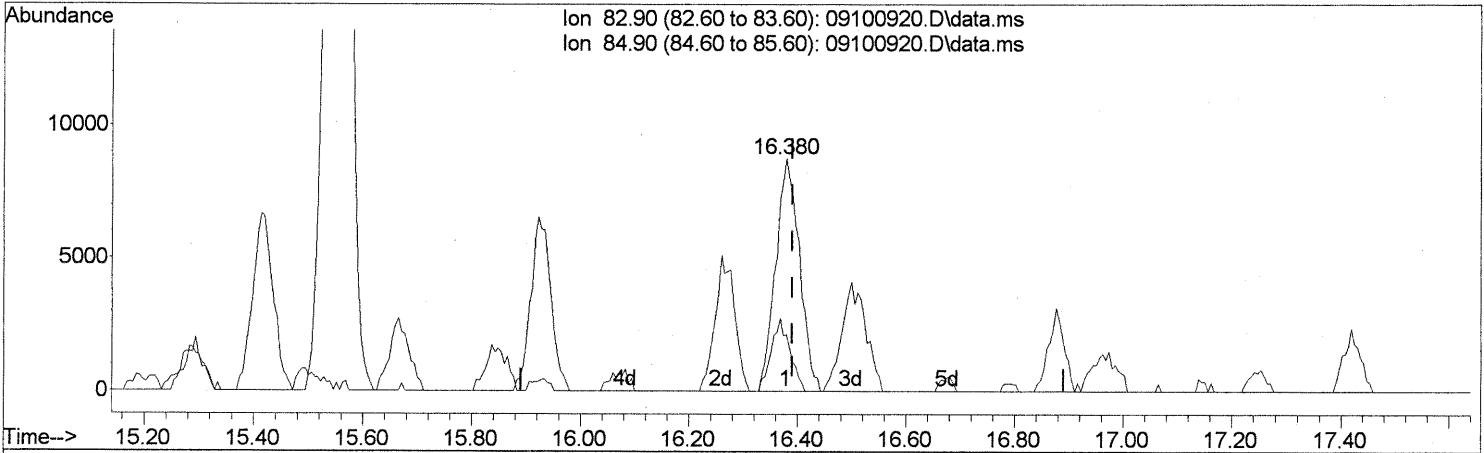
(43) Cyclohexane (T)
 15.289min (-0.023) 3.12ng
 response 72811

Ion	Exp%	Act%
84.10	100	100
69.10	38.90	35.89
56.10	124.50	116.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

(46) Bromodichloromethane (T)

16.380min (-0.011) 1.27ng

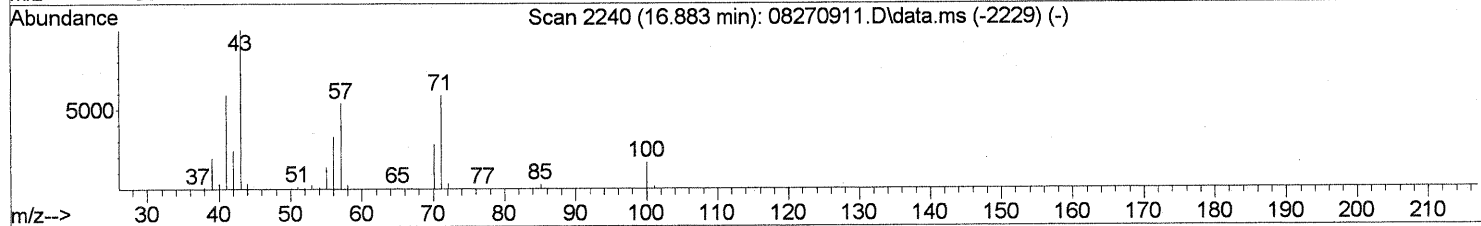
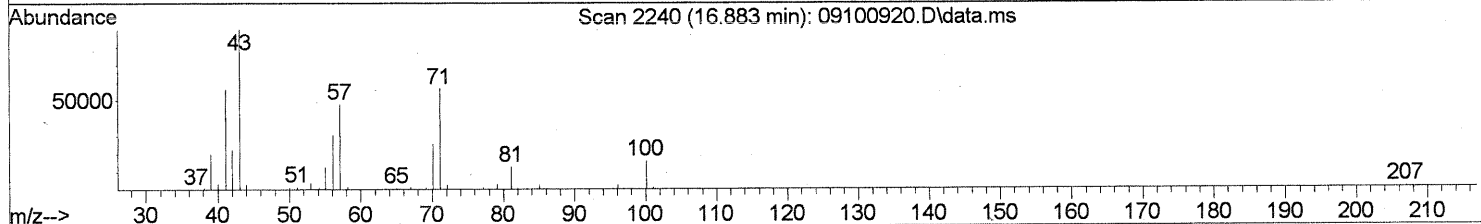
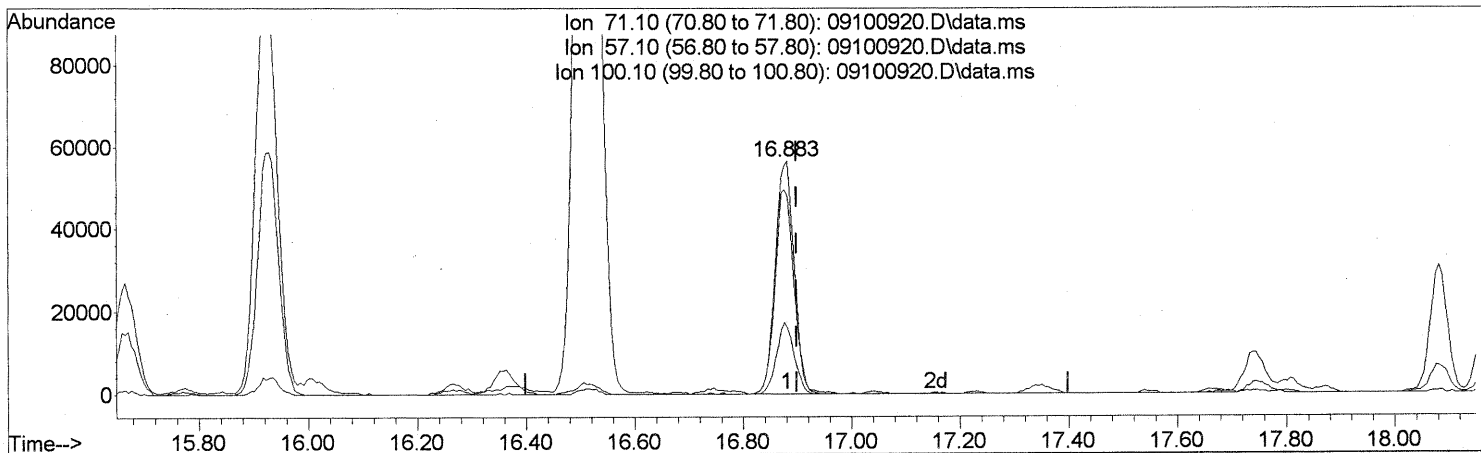
response 26579

Ion	Exp%	Act%
82.90	100	100
84.90	64.50	24.50#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

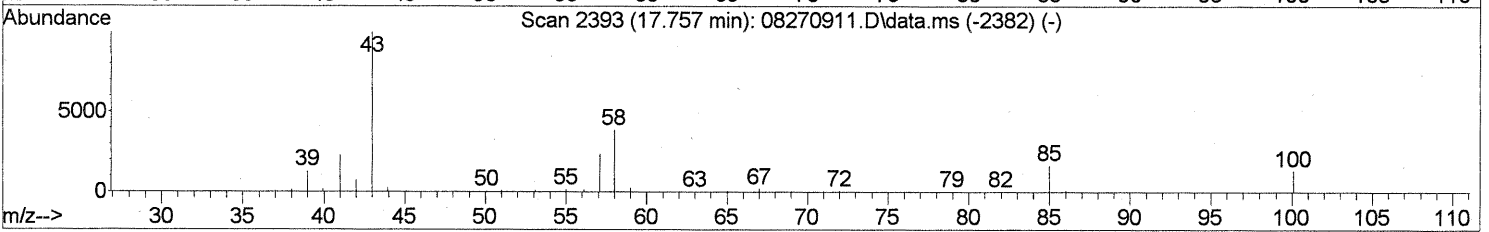
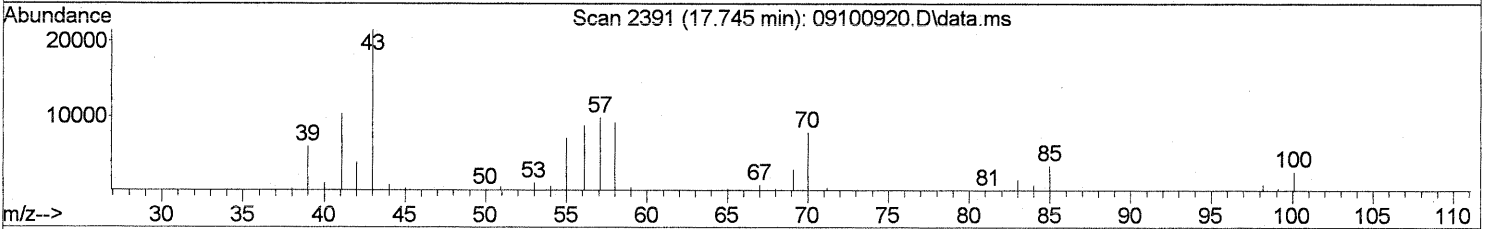
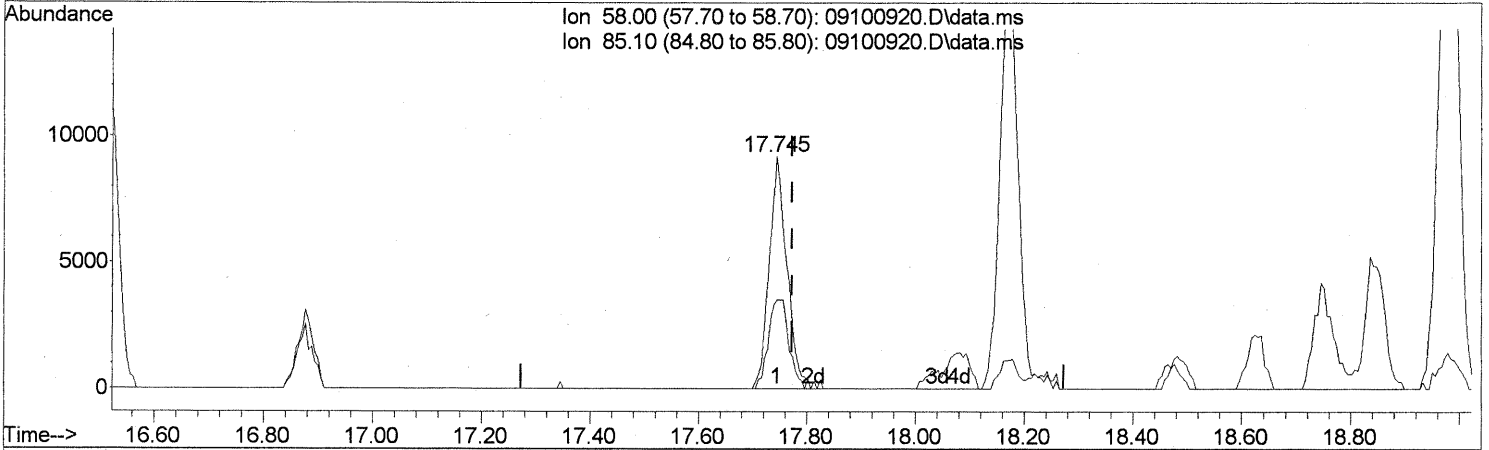
(51) n-Heptane (T)
 16.883min (-0.017) 8.24ng
 response 135399

Ion	Exp%	Act%
71.10	100	100
57.10	89.80	88.63
100.10	22.00	28.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

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

17.745min (-0.029) 1.44ng

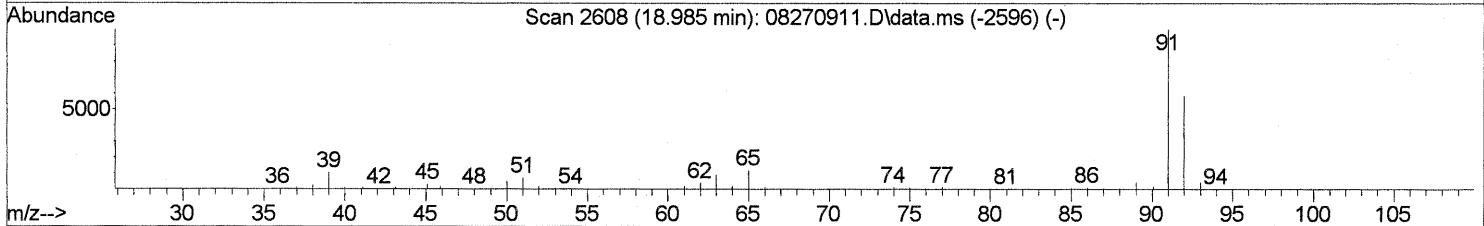
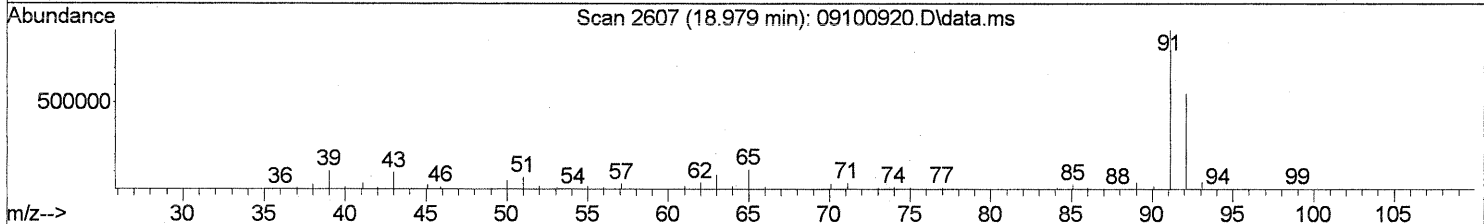
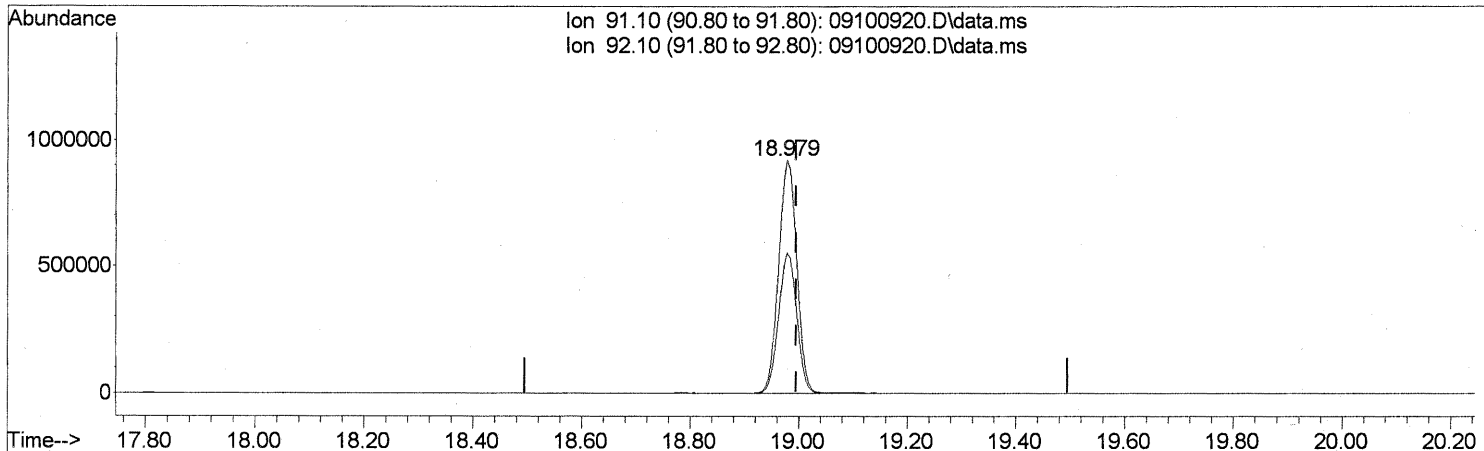
response 20864

Ion	Exp%	Act%
58.00	100	100
85.10	42.40	44.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

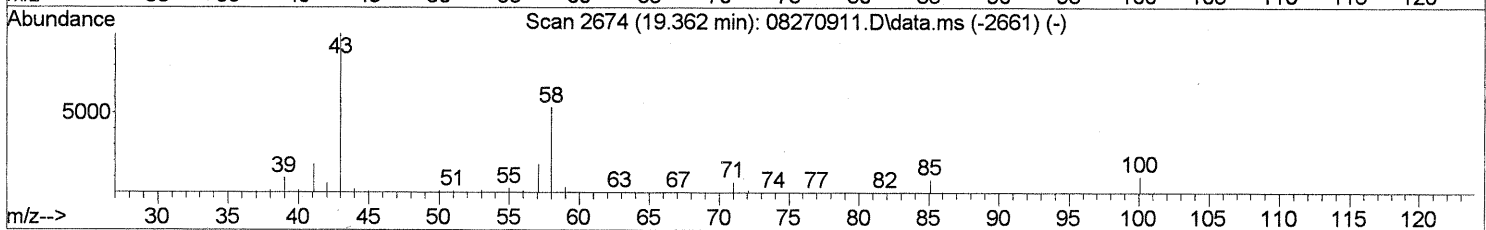
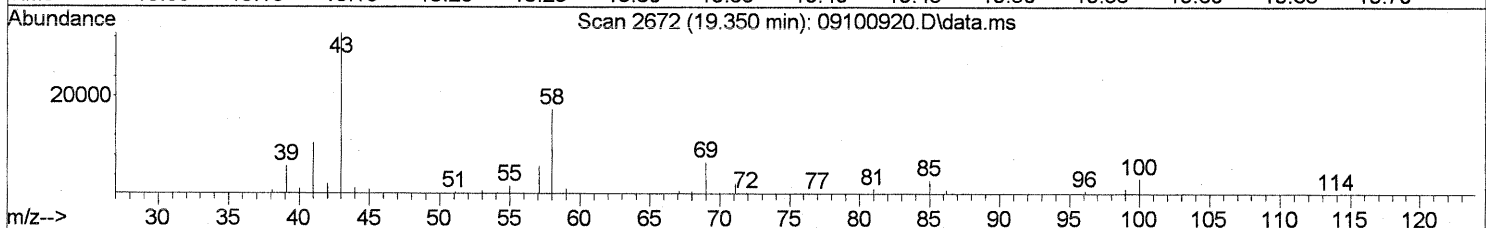
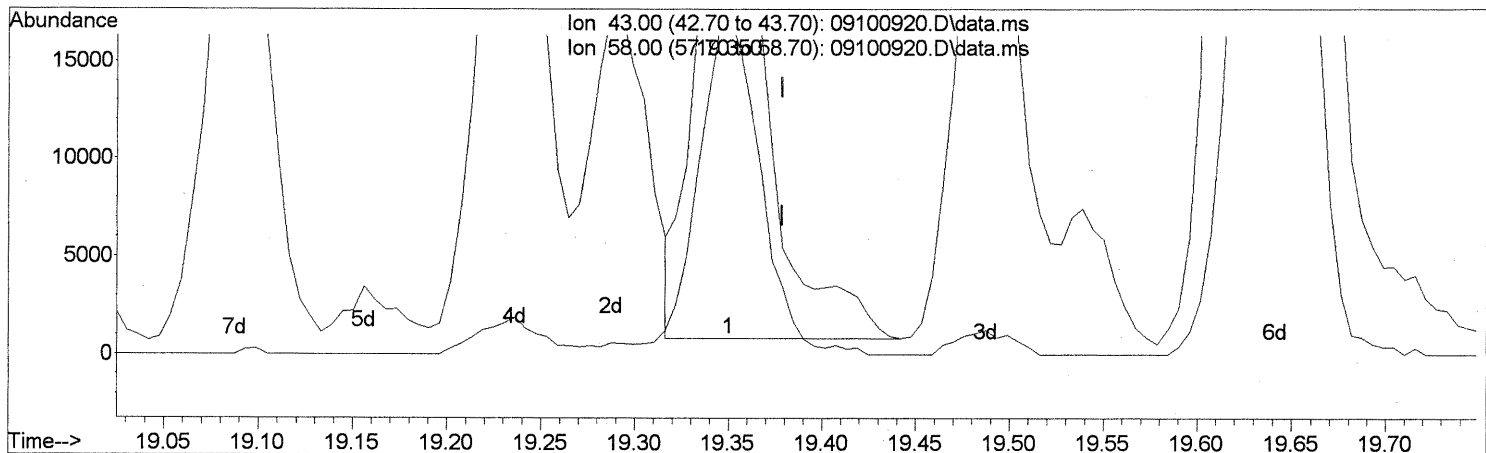
(58) Toluene (T)
 18.979min (-0.017) 32.37ng
 response 2136398

Ion	Exp%	Act%
91.10	100	100
92.10	58.80	59.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

(59) 2-Hexanone (T)
 19.350min (-0.029) 1.87ng
 response 75286

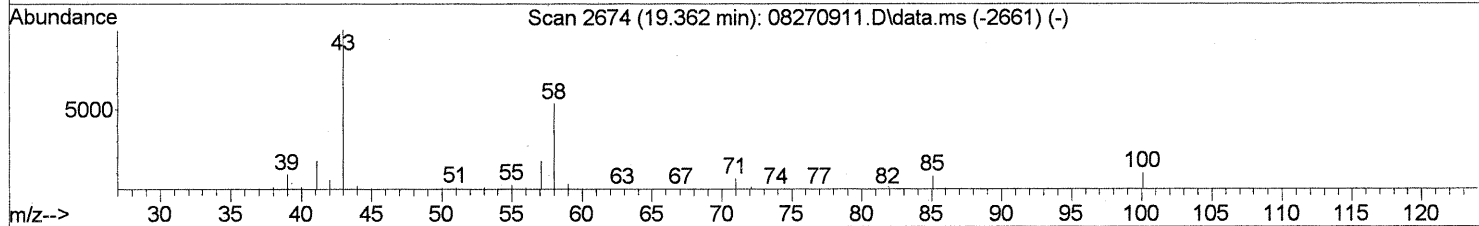
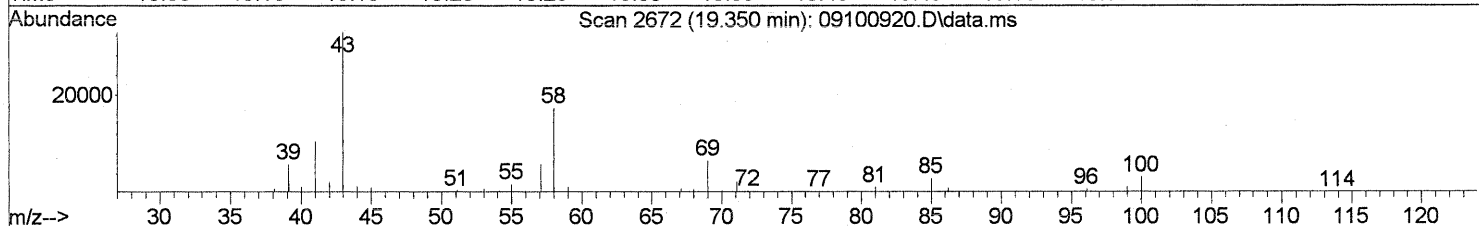
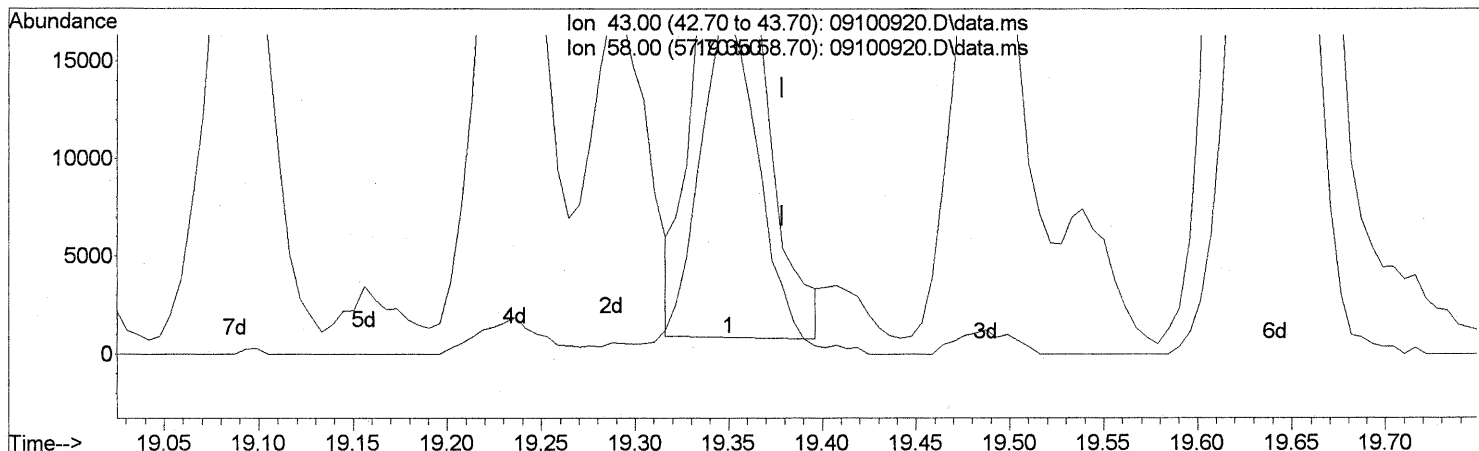
Ion	Exp%	Act%
43.00	100	100
58.00	51.70	52.77
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

(59) 2-Hexanone (T)
 19.350min (-0.029) 1.76ng m
 response 71138

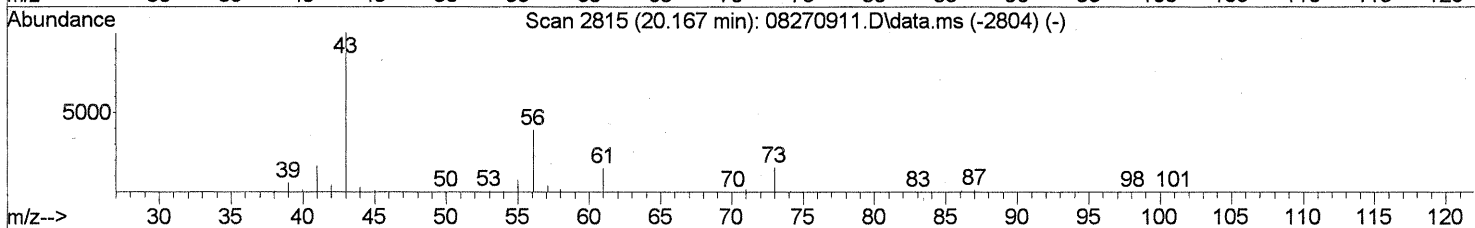
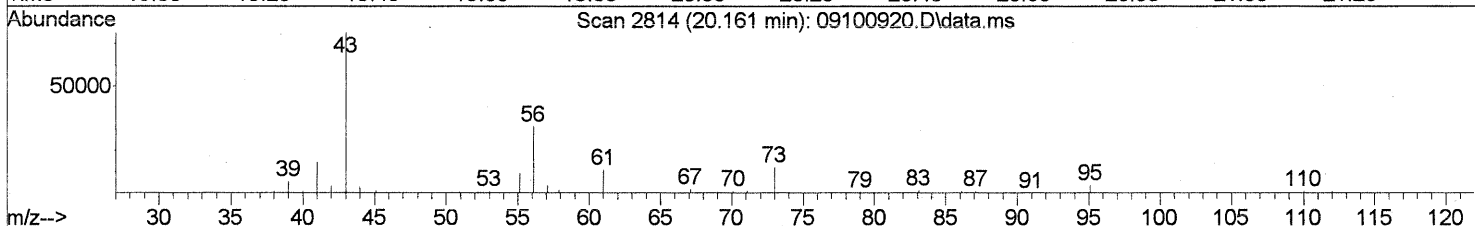
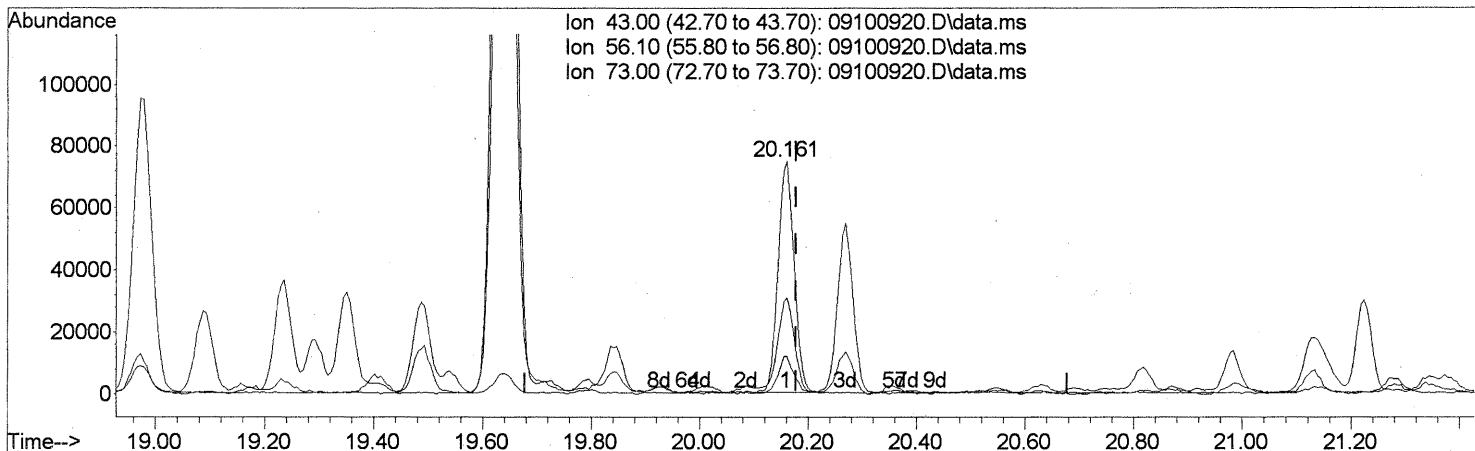
Ion	Exp%	Act%
43.00	100	100
58.00	51.70	55.85
0.00	0.00	0.00
0.00	0.00	0.00

PT -> IC
 LM 9/20/09
 LM 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

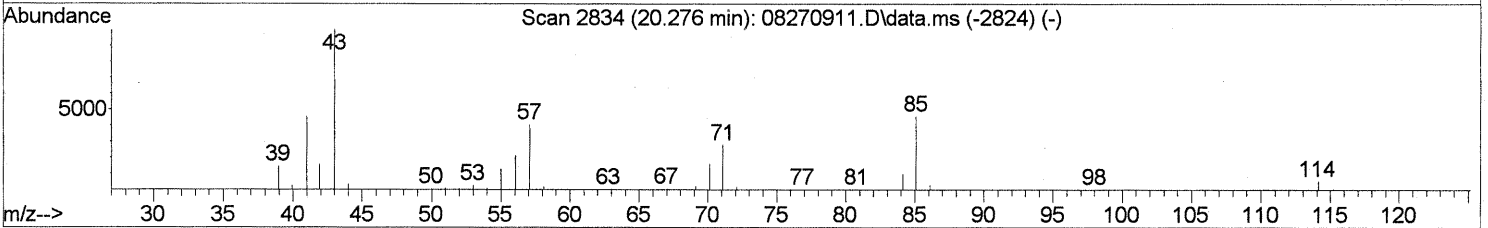
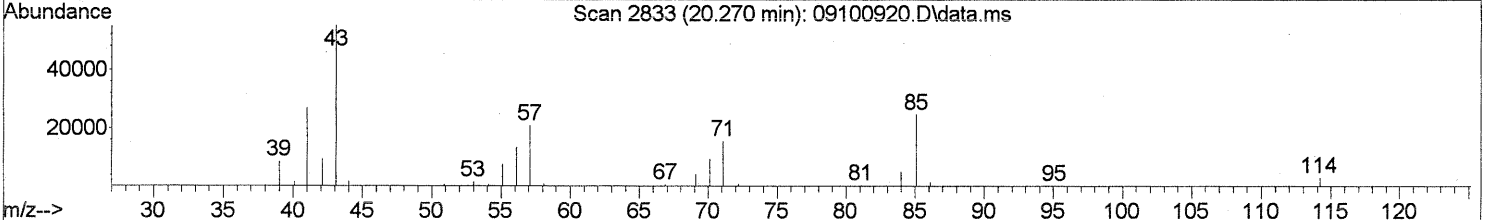
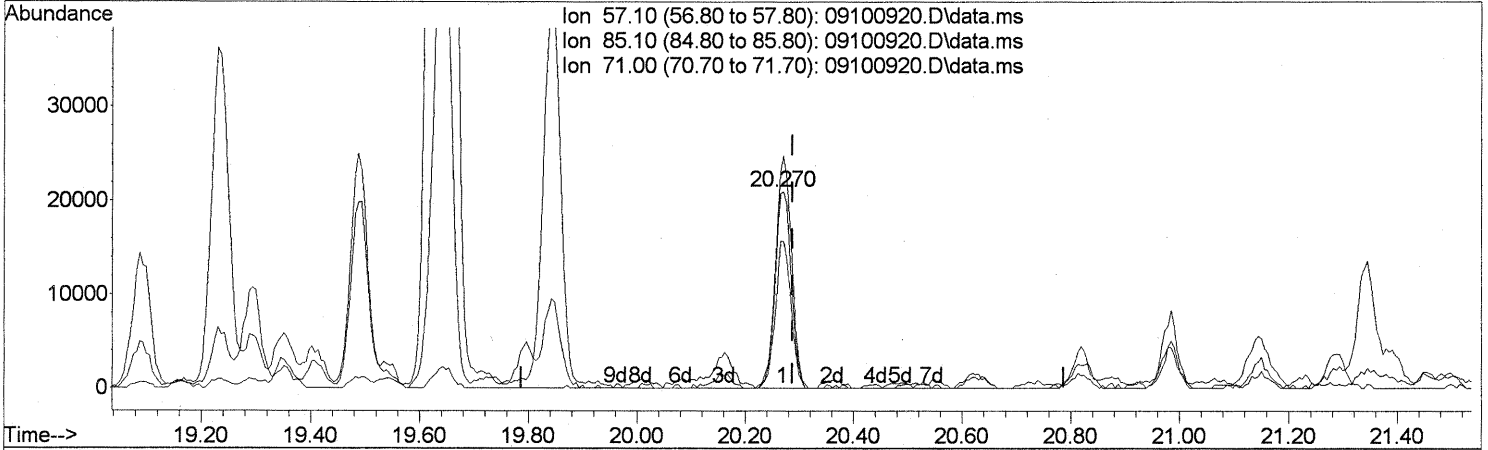
(62) n-Butyl Acetate (T)
 20.161min (-0.017) 3.29ng
 response 152076

Ion	Exp%	Act%
43.00	100	100
56.10	39.50	42.64
73.00	14.30	17.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



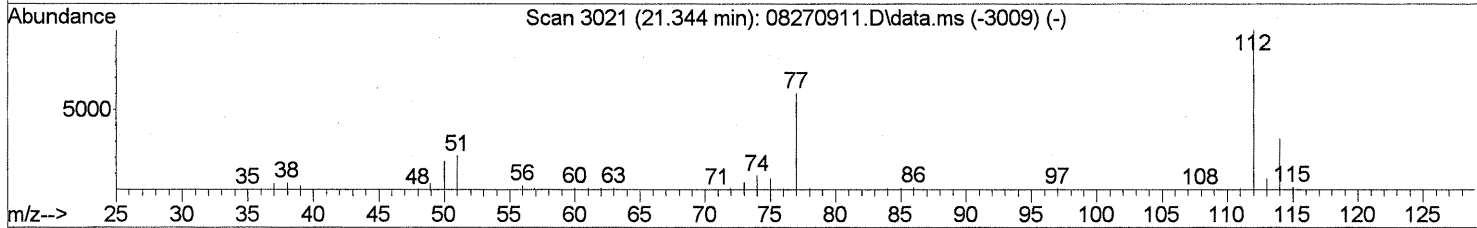
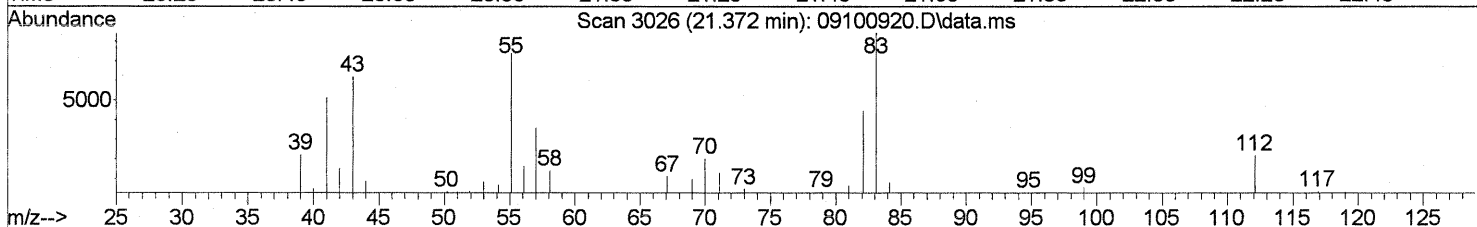
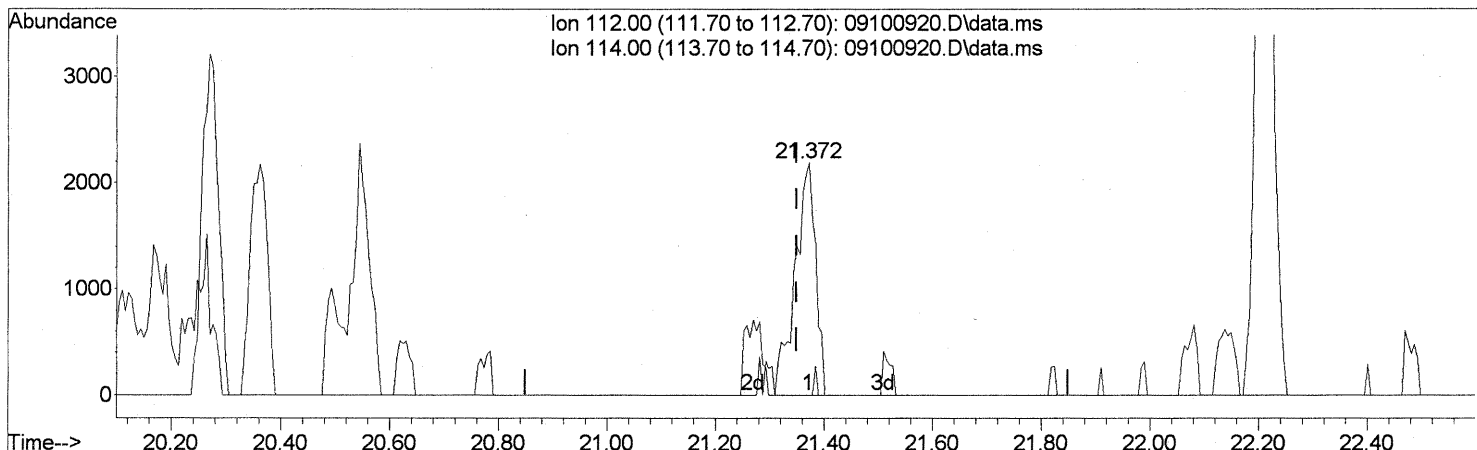
TIC: 09100920.D\data.ms

(63) n-Octane (T)		
20.270min	(-0.017)	2.90ng
response	44063	
Ion	Exp%	Act%
57.10	100	100
85.10	113.70	115.11
71.00	69.10	71.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

(65) Chlorobenzene (T)
 21.372min (+0.023) 0.14ng
 response 5728

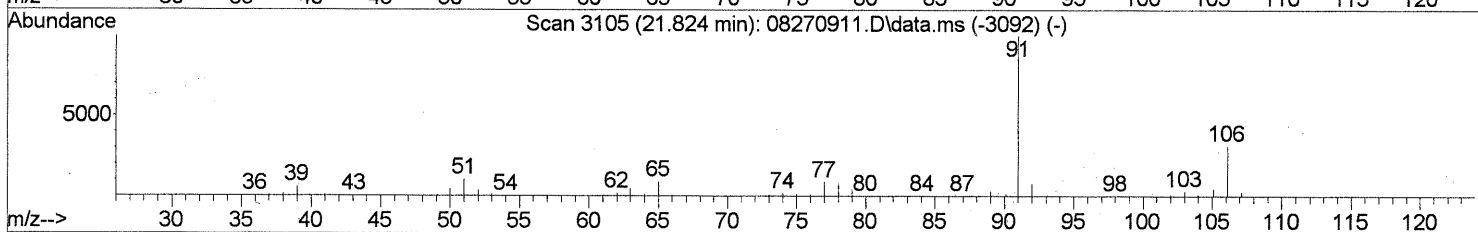
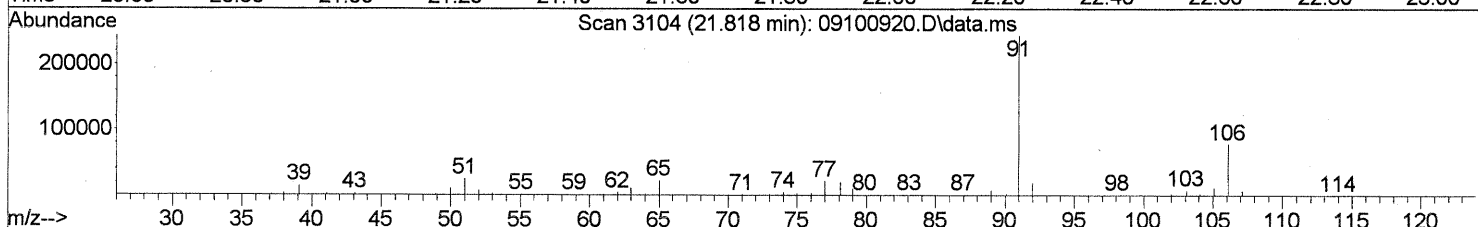
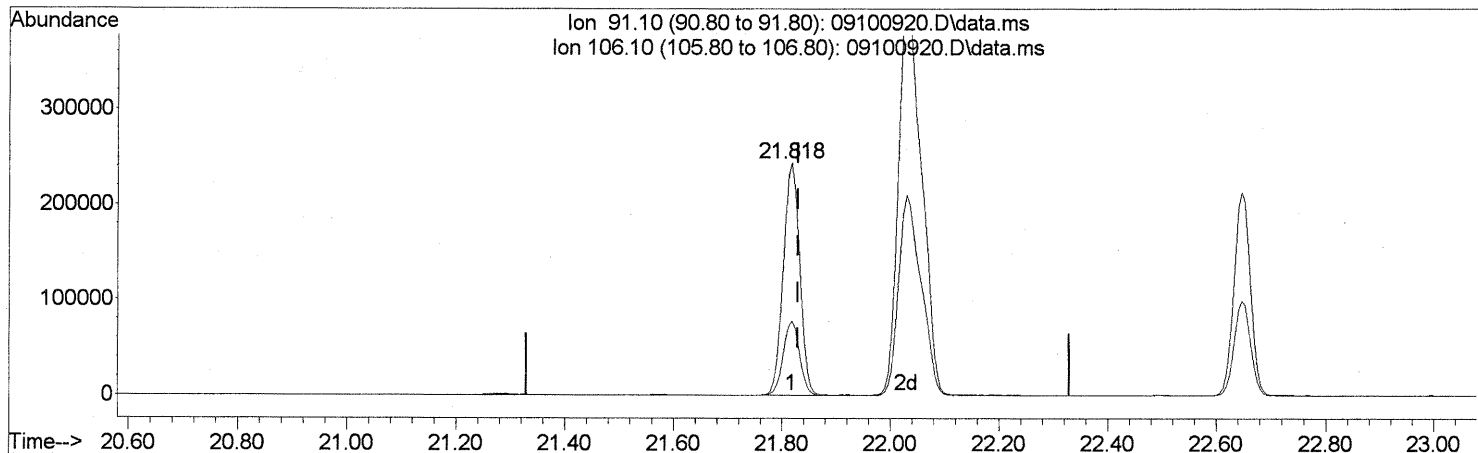
Ion	Exp%	Act%
112.00	100	100
114.00	32.00	1.64#
0.00	0.00	0.00
0.00	0.00	0.00

EP
LM 9/20/09
Tom 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

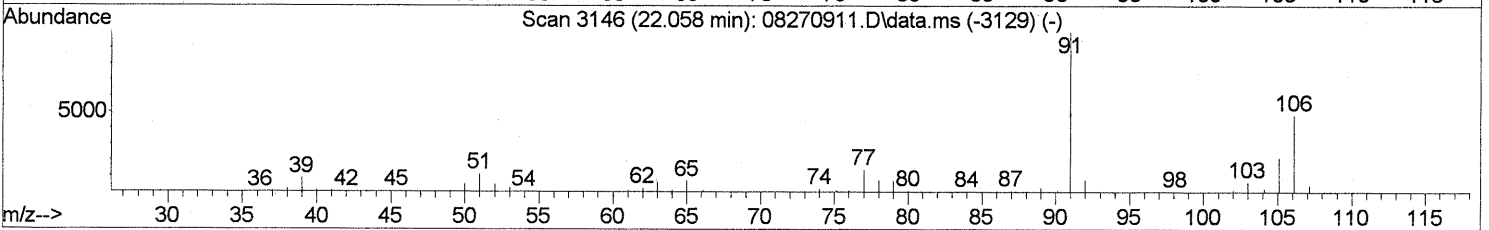
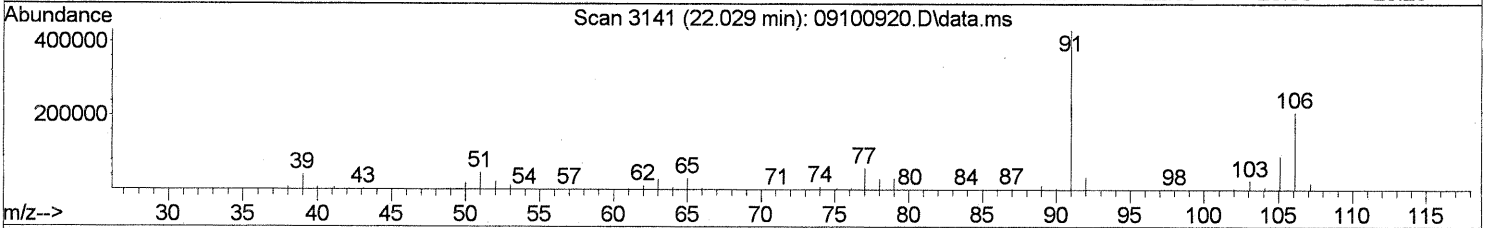
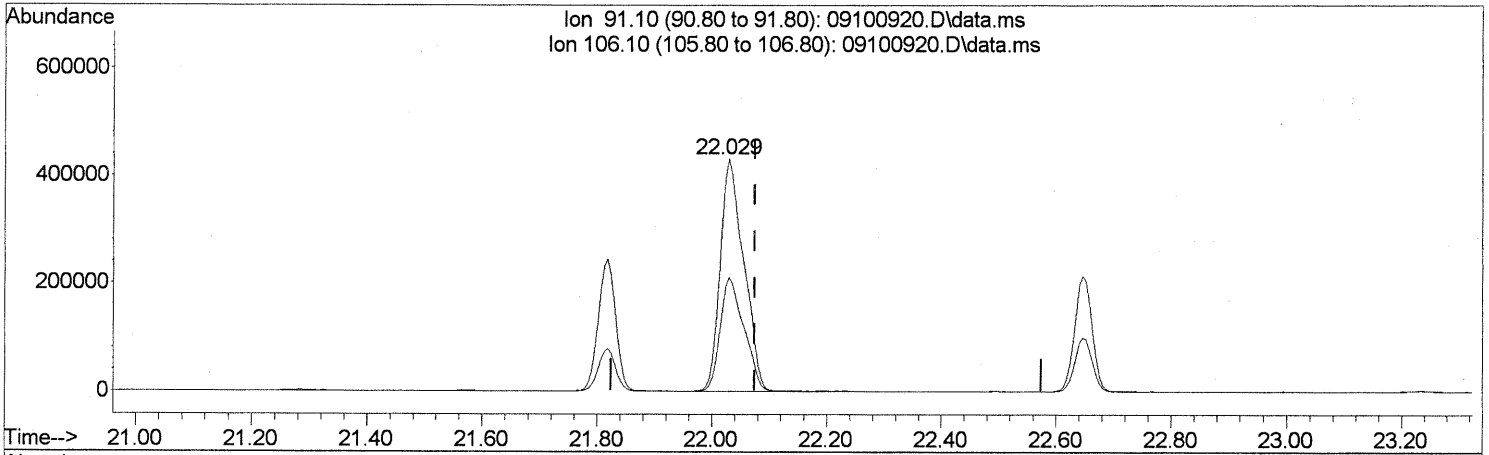
(66) Ethylbenzene (T)
 21.818min (-0.011) 6.78ng
 response 511854

Ion	Exp%	Act%
91.10	100	100
106.10	31.00	31.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

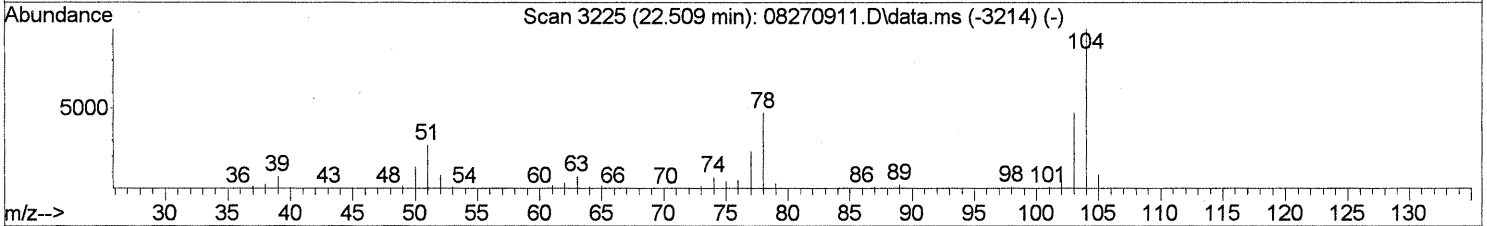
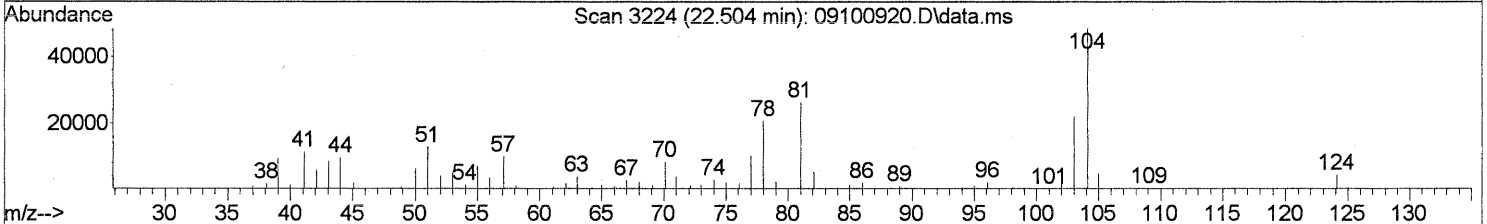
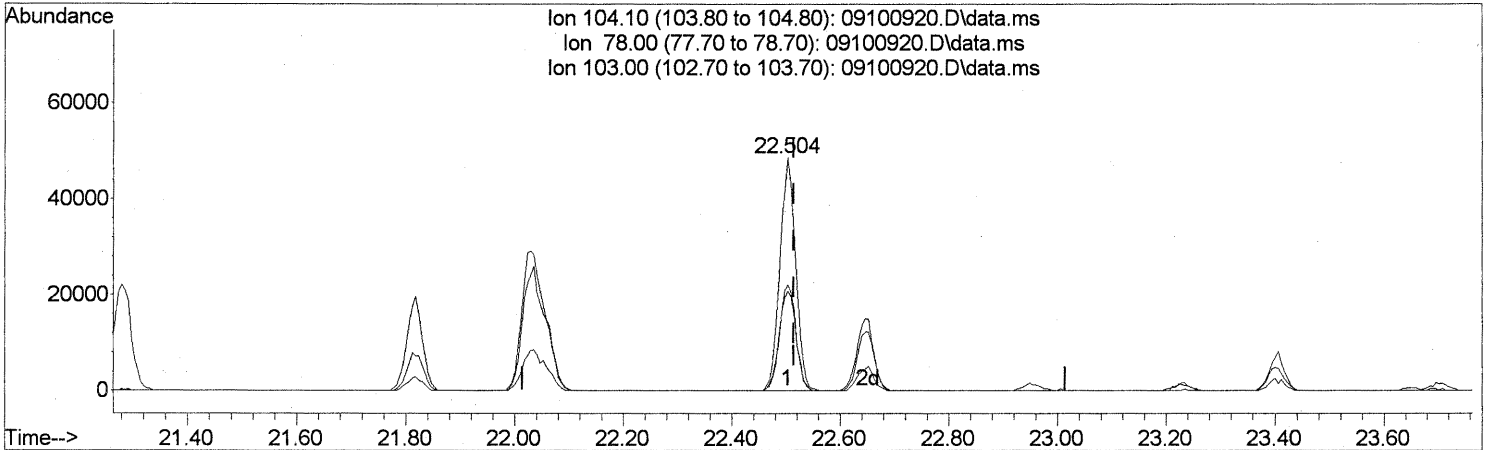
(67) m- & p-Xylenes (T)
 22.029min (-0.046) 20.48ng
 response 1230672

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	49.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

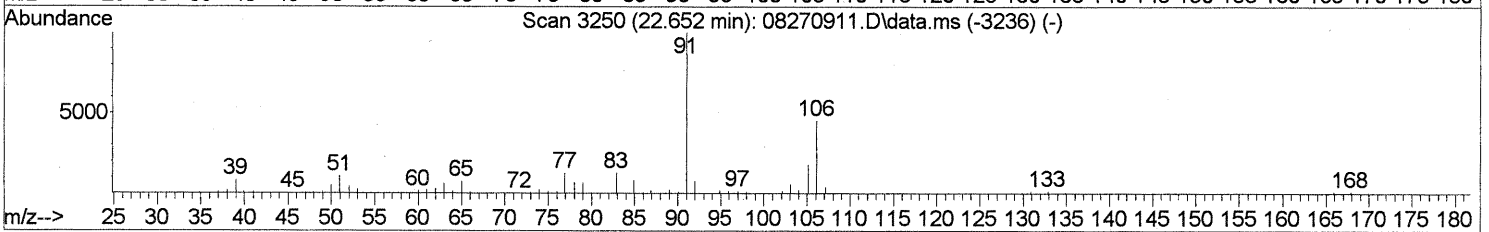
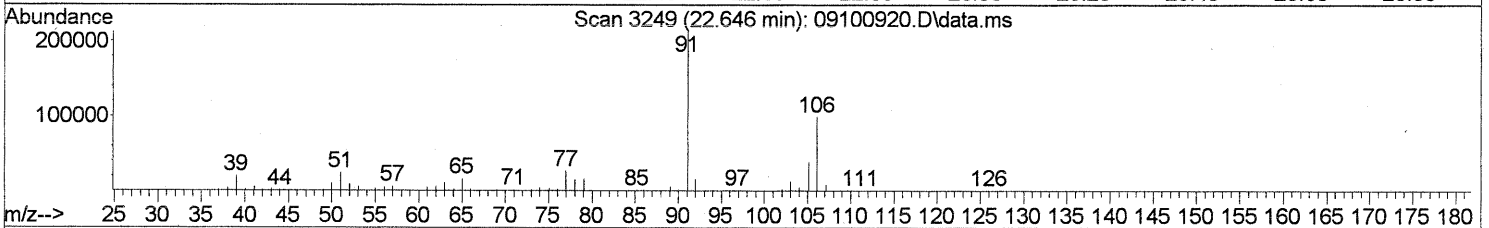
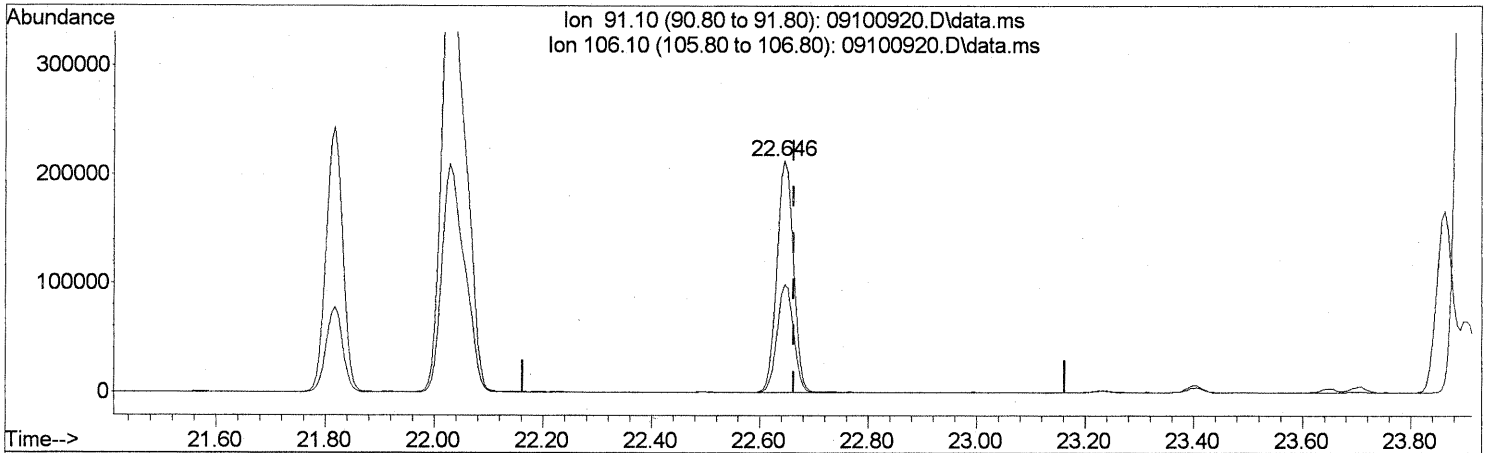
(69) Styrene (T)
 22.504min (-0.011) 2.22ng
 response 98049

Ion	Exp%	Act%
104.10	100	100
78.00	47.20	45.65
103.00	47.00	47.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

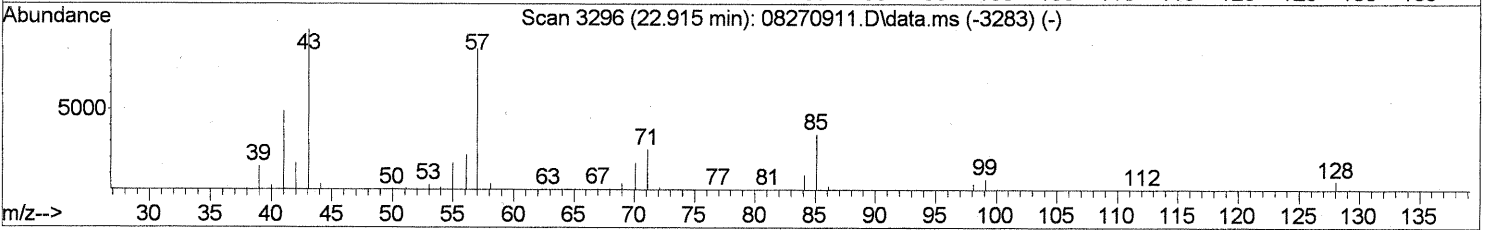
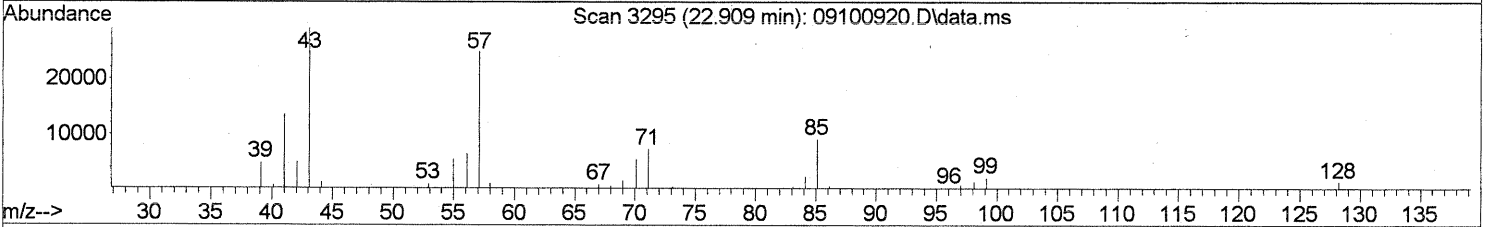
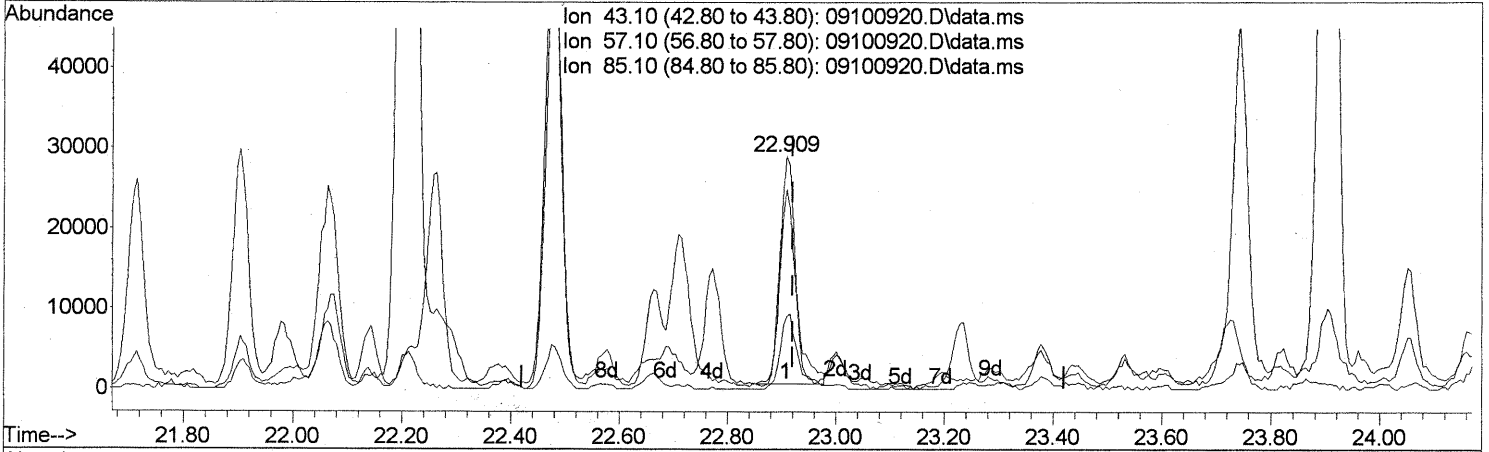
(70) o-Xylene (T)
 22.646min (-0.017) 7.42ng
 response 448043

Ion	Exp%	Act%
91.10	100	100
106.10	44.90	46.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

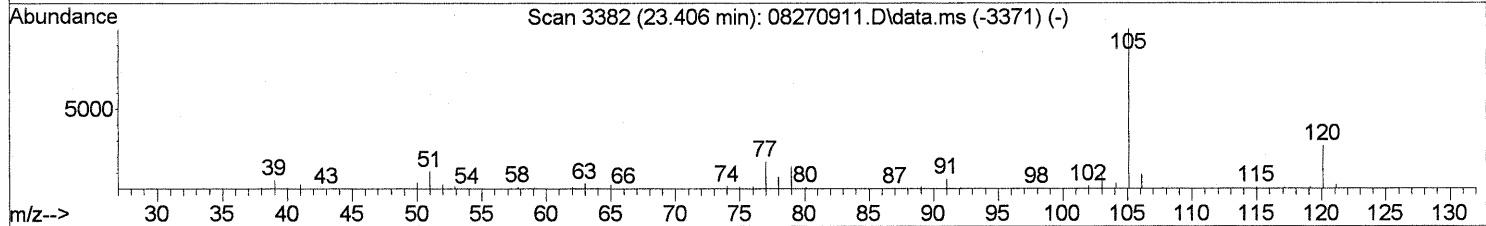
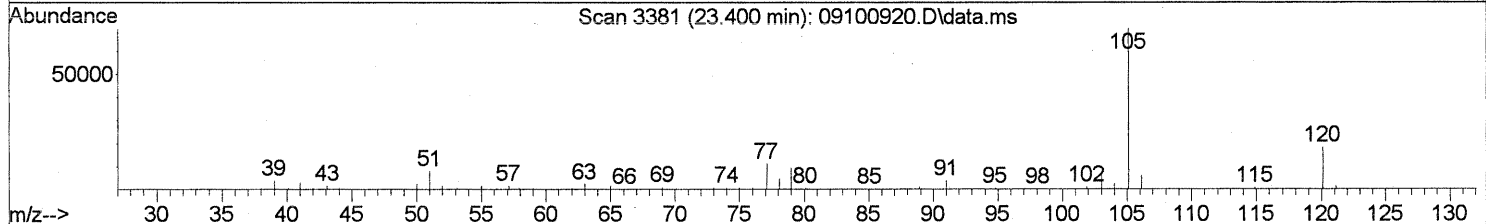
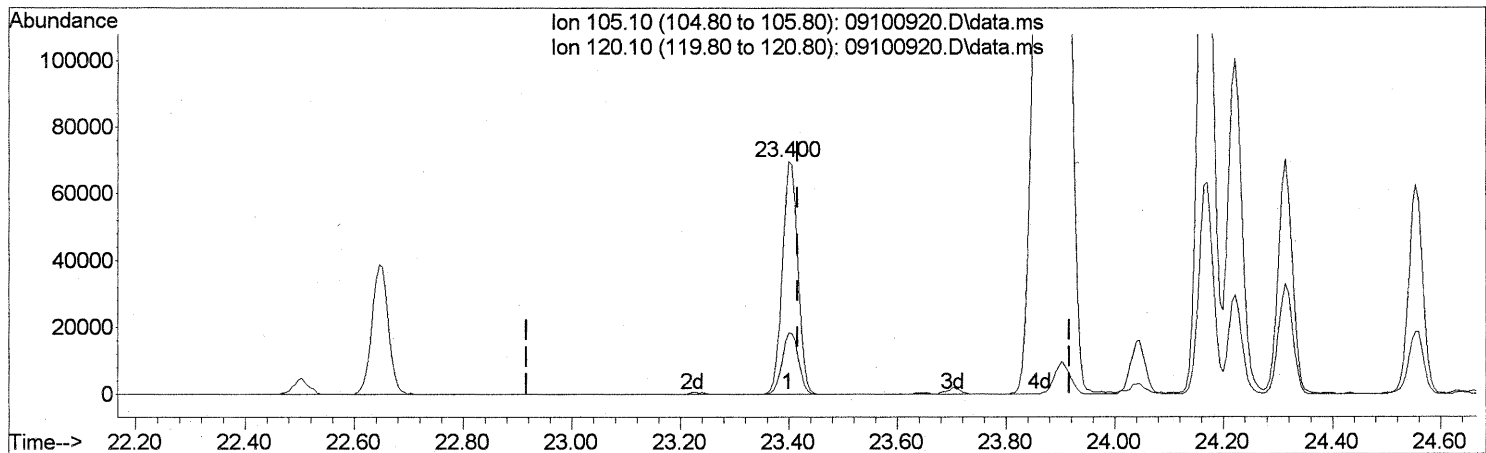
(71) n-Nonane (T)
 22.909min (-0.011) 1.65ng
 response 59675

Ion	Exp%	Act%
43.10	100	100
57.10	85.90	80.26
85.10	32.20	37.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

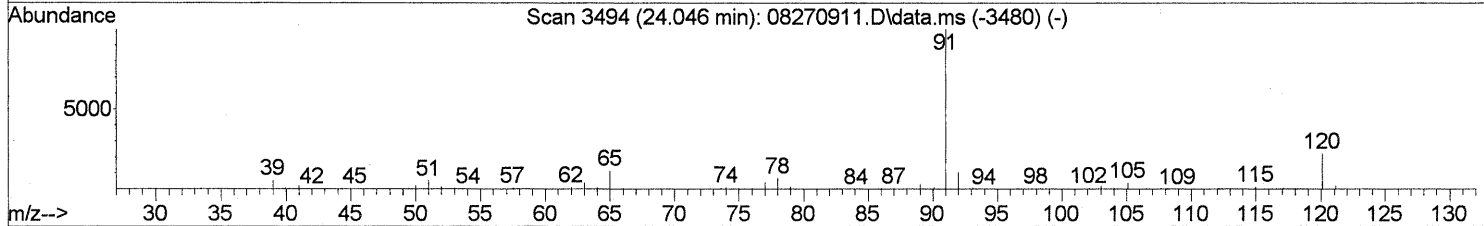
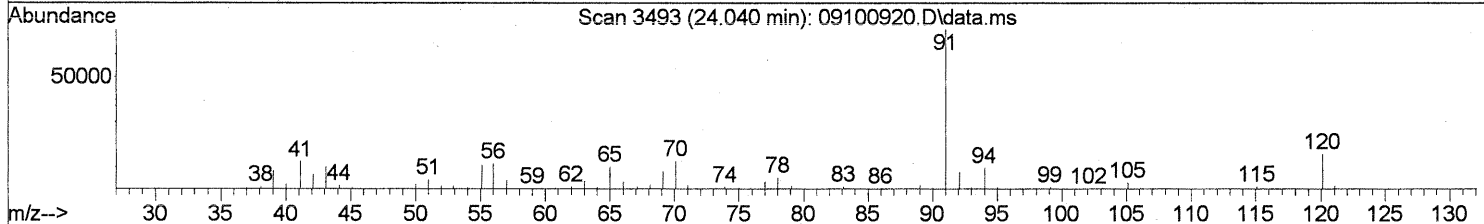
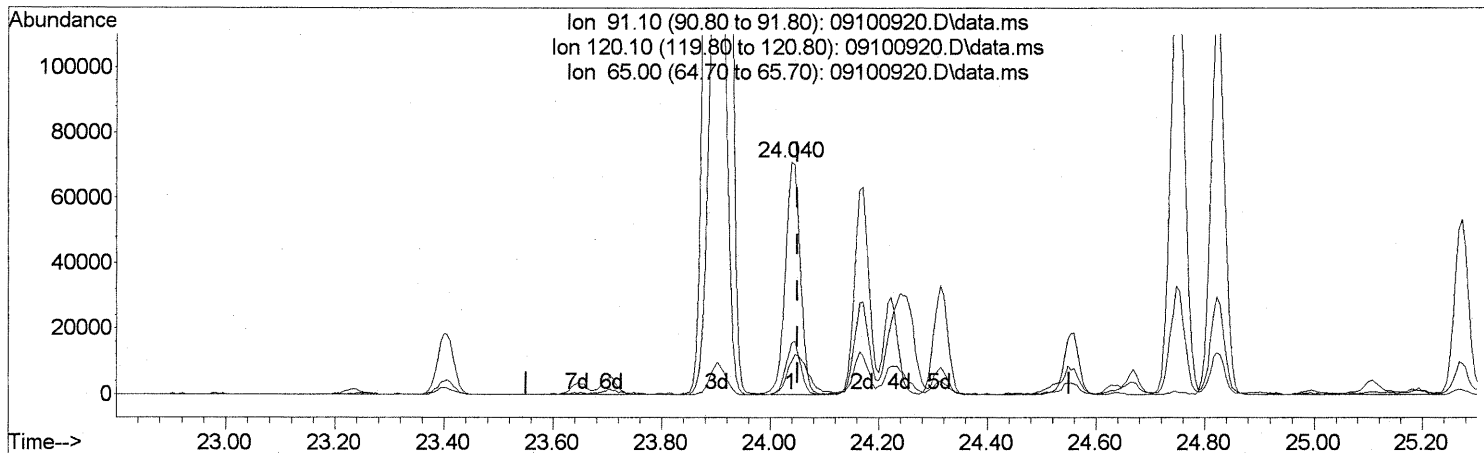
(74) Cumene (T)
 23.400min (-0.017) 1.79ng
 response 137160

Ion	Exp%	Act%
105.10	100	100
120.10	25.50	27.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

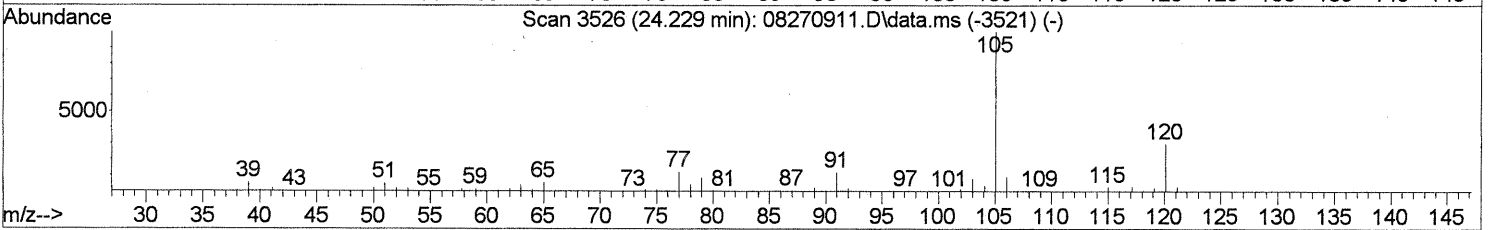
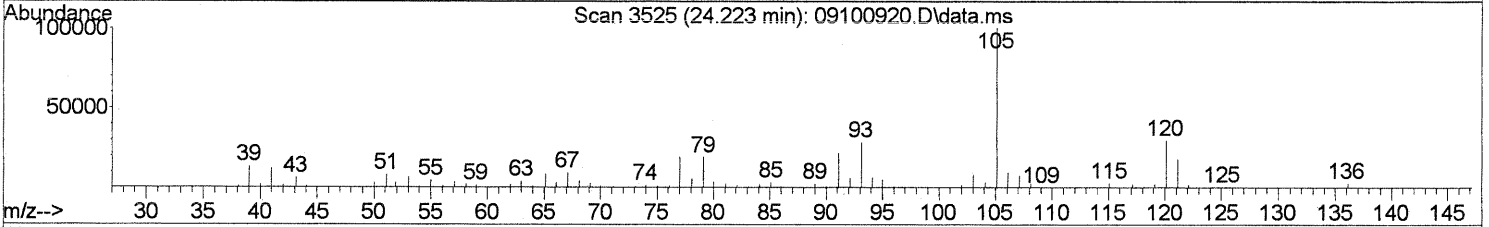
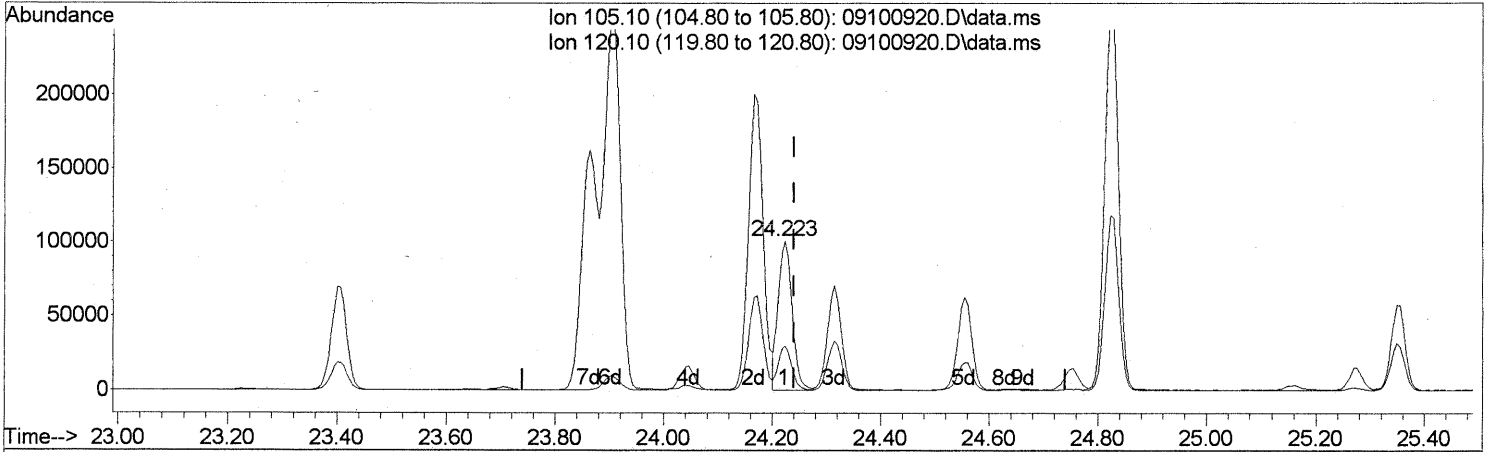
(76) n-Propylbenzene (T)
 24.040min (-0.011) 1.40ng
 response 135895

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	21.91
65.00	11.80	23.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

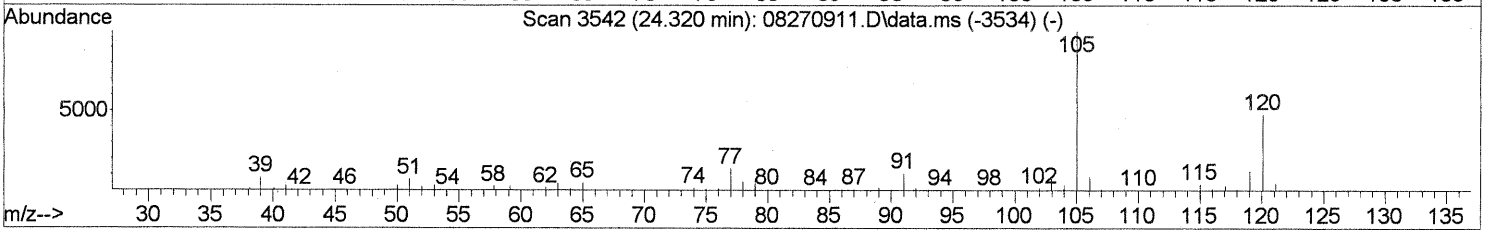
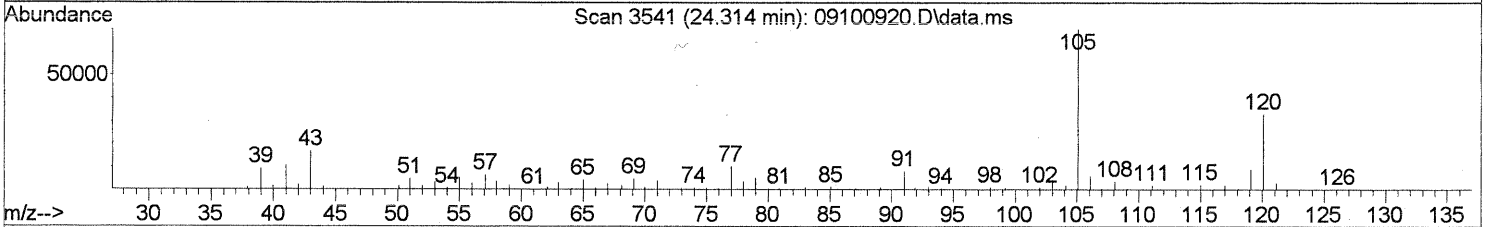
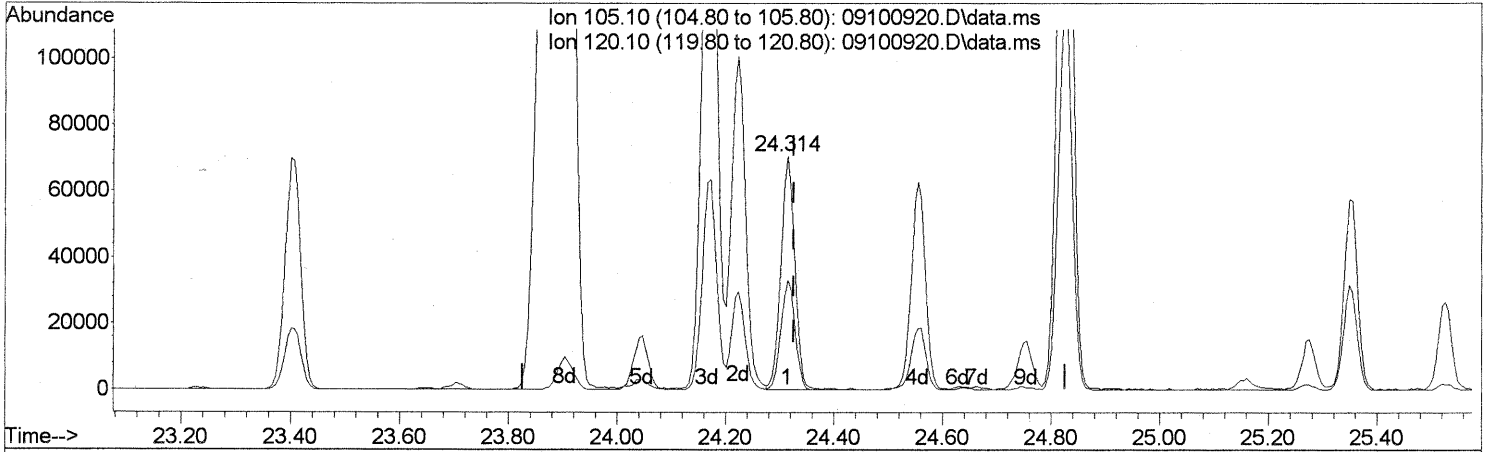
(78) 4-Ethyltoluene (T)
 24.223min (-0.017) 2.47ng
 response 178322

Ion	Exp%	Act%
105.10	100	100
120.10	28.70	28.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

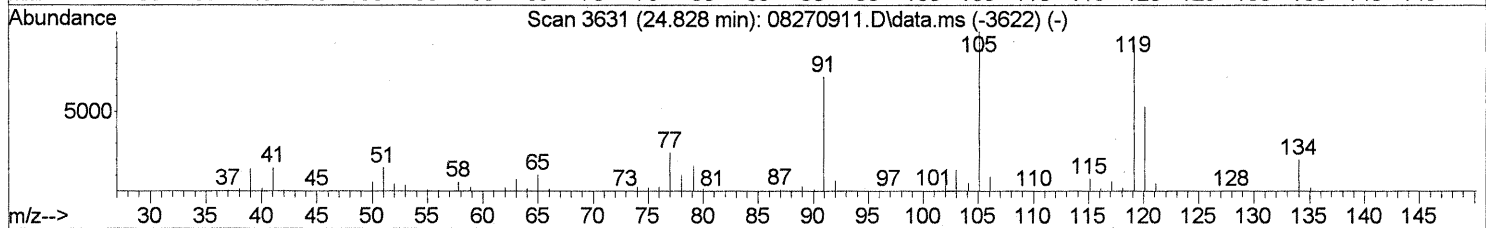
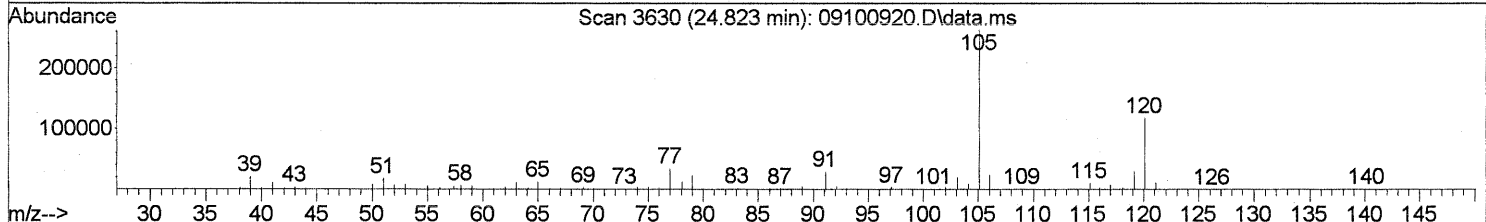
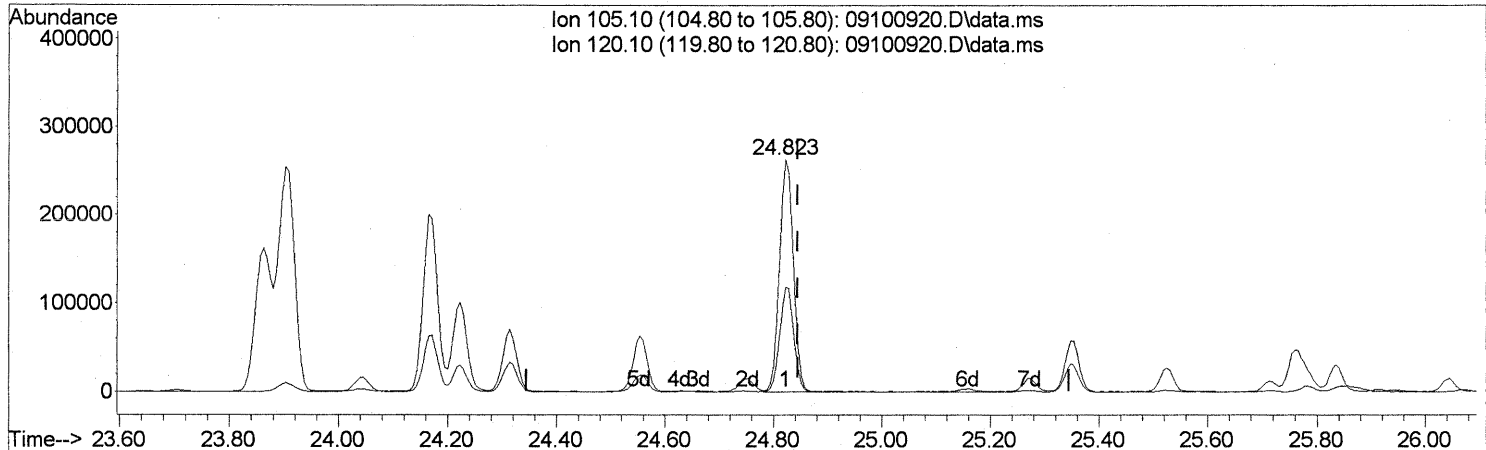
(79) 1,3,5-Trimethylbenzene (T)
 24.314min (-0.011) 2.08ng
 response 125336

Ion	Exp%	Act%
105.10	100	100
120.10	47.70	47.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

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

24.823min (-0.023) 7.60ng

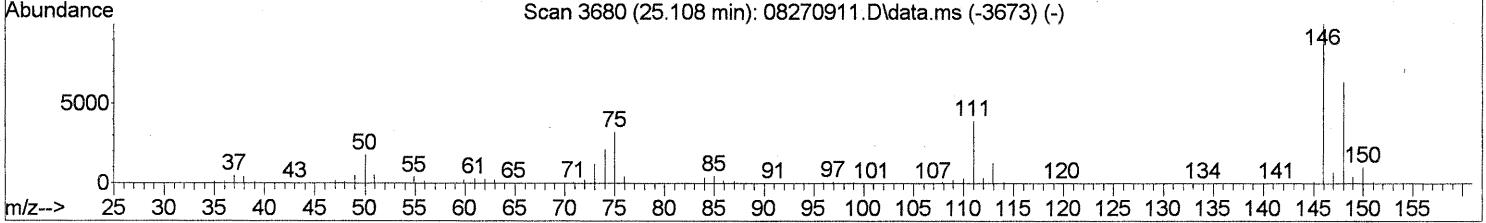
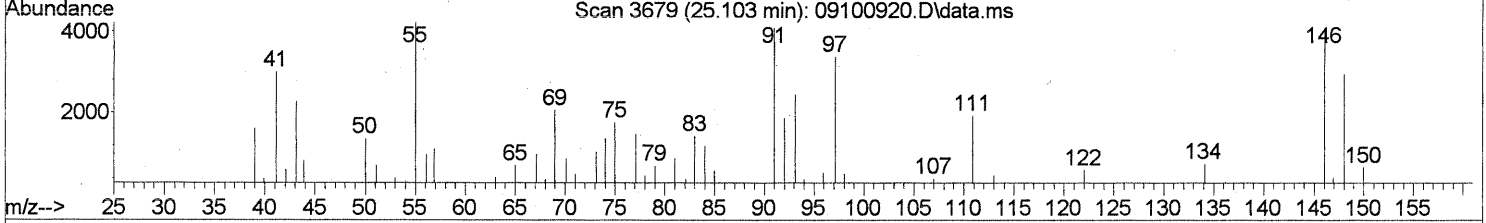
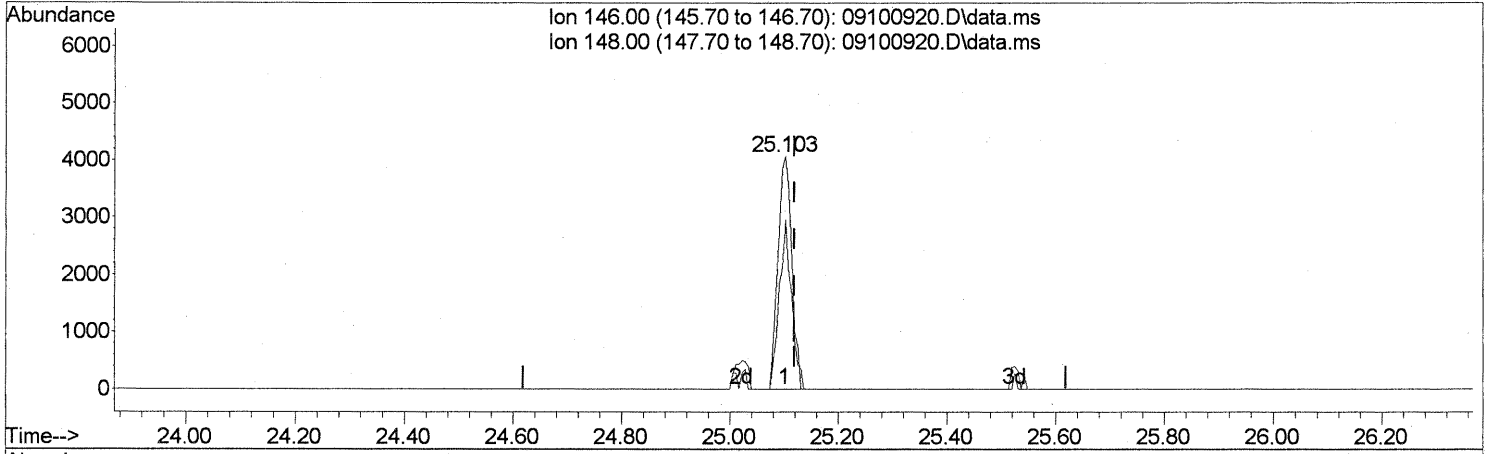
response 466548

Ion	Exp%	Act%
105.10	100	100
120.10	52.00	45.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

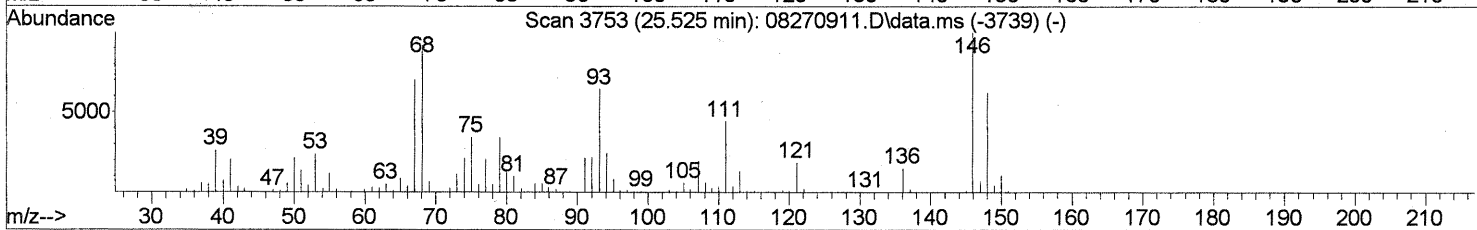
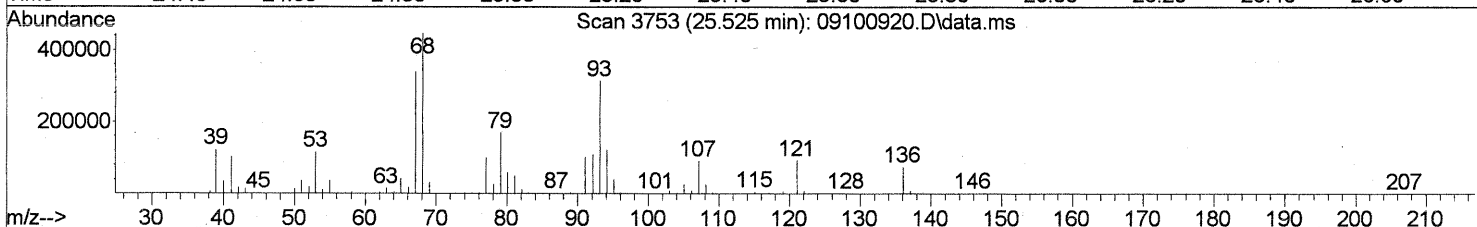
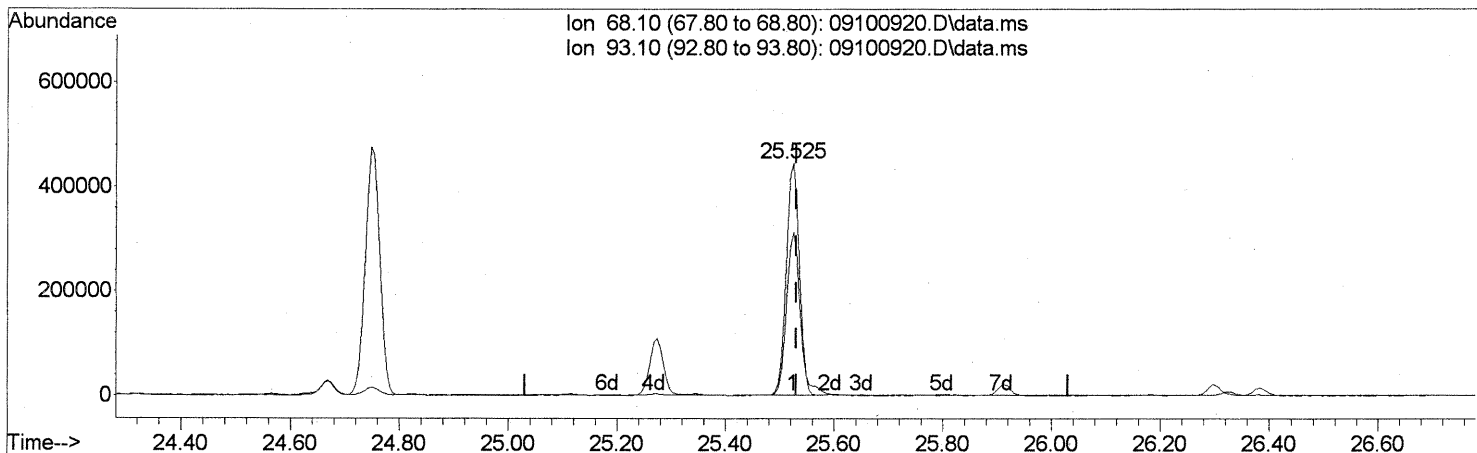
(86) 1,4-Dichlorobenzene (T)
 25.103min (-0.017) 0.21ng
 response 7134

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	65.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100920.D\data.ms

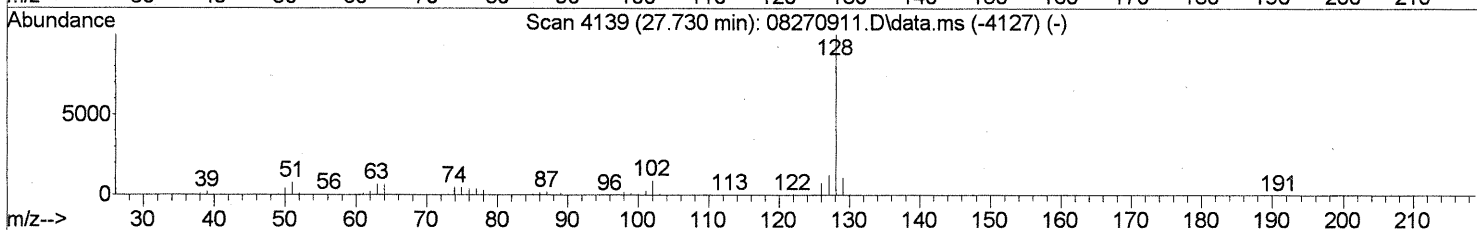
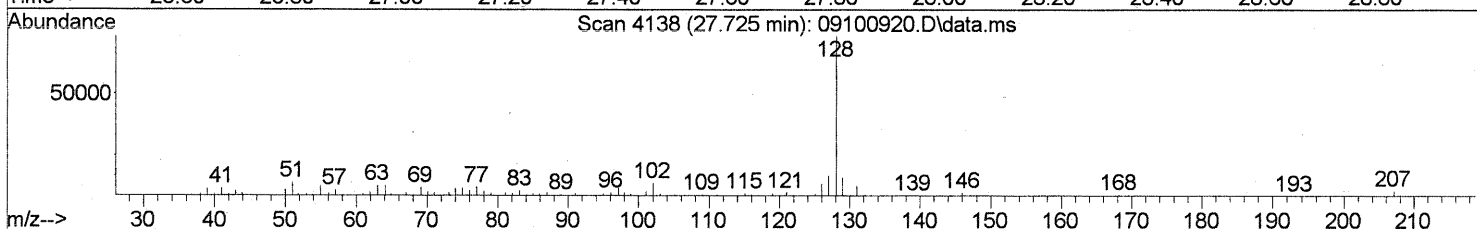
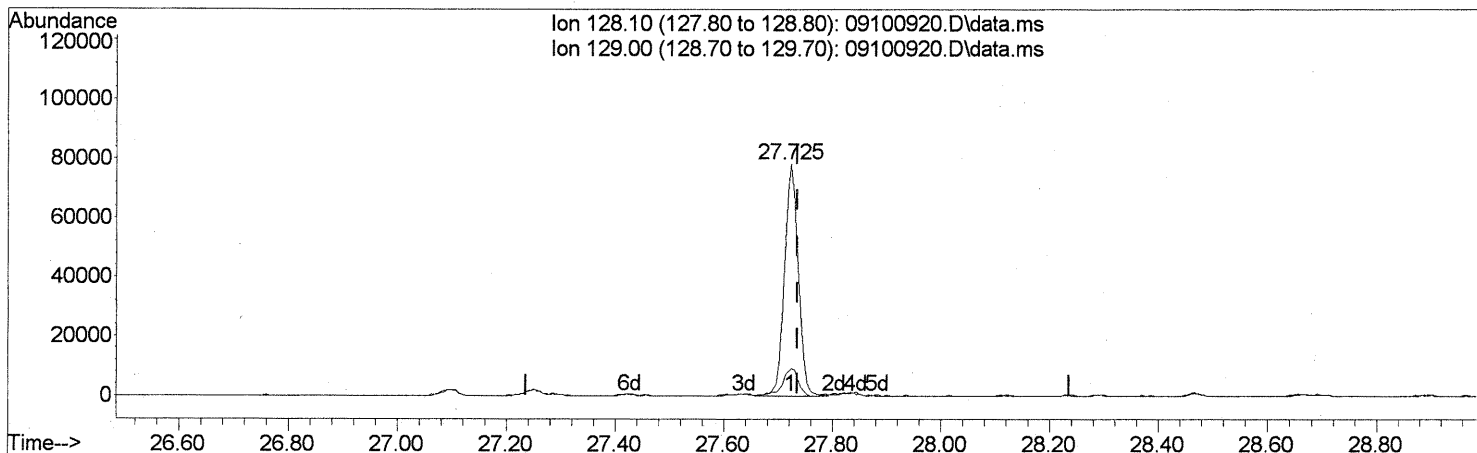
(91) d-Limonene (T)
 25.525min (-0.006) 30.62ng
 response 750199

Ion	Exp%	Act%
68.10	100	100
93.10	69.80	74.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100920.D
 Acq On : 10 Sep 2009 23:44
 Operator : LM/CC
 Sample : P0903141-002 (1000ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 08:32:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



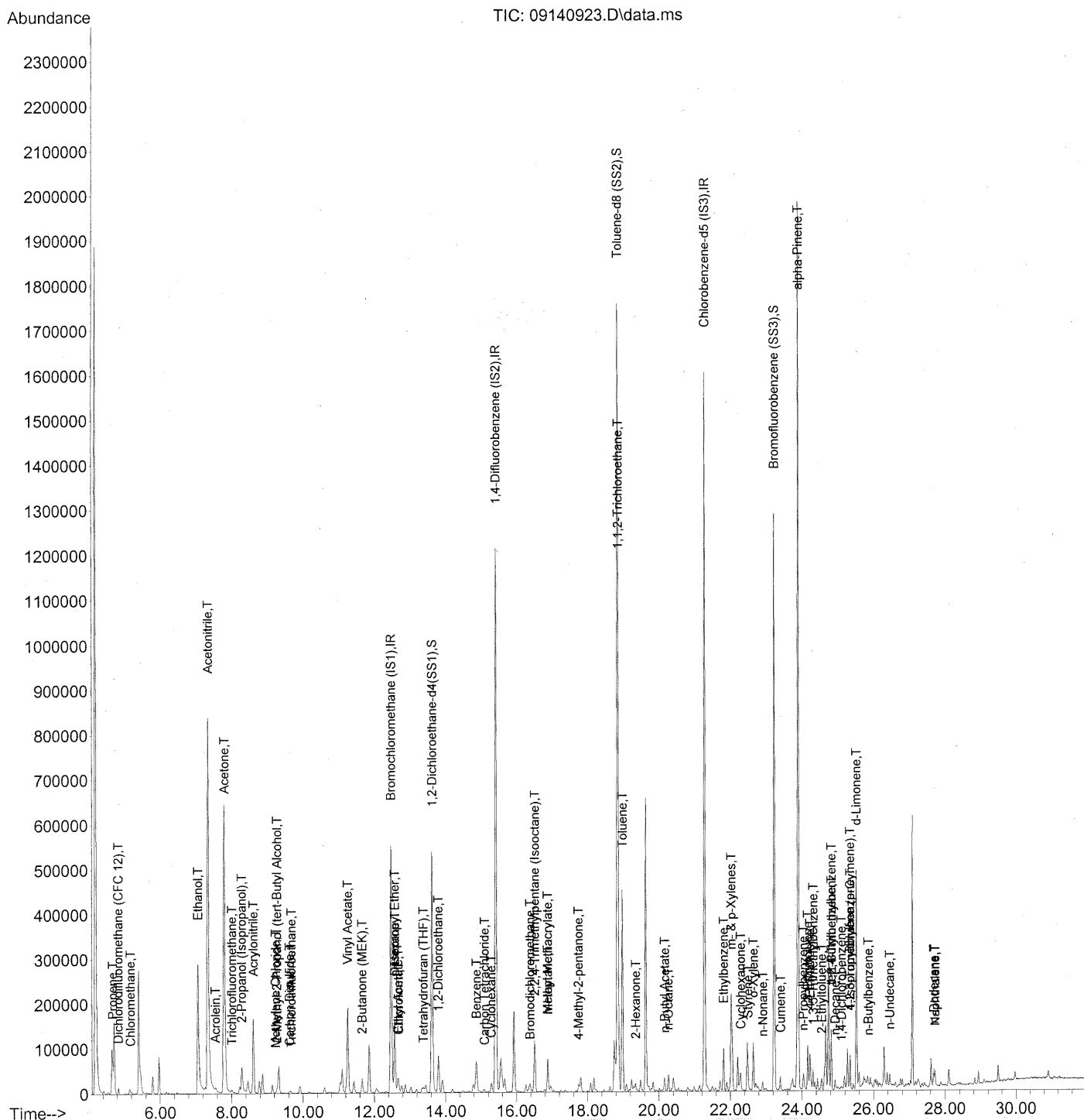
TIC: 09100920.D\data.ms

(95) Naphthalene (T)
 27.725min (-0.011) 1.63ng
 response 137864

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	13.33
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140923.D
 Acq On : 15 Sep 2009 3:03 am
 Operator : LM/CC
 Sample : P0903141-002dil (200ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 11:09:16 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140923.D
 Acq On : 15 Sep 2009 3:03 am
 Operator : LM/CC
 Sample : P0903141-002dil (200ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 11:09:16 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

11/9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	281356	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1407468	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	668273	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	554478	24.869	ng	-0.03
Spiked Amount	25.000			Recovery =	99.48%	
57) Toluene-d8 (SS2)	18.84	98	1513174	25.336	ng	-0.02
Spiked Amount	25.000			Recovery =	101.36%	
73) Bromofluorobenzene (SS3)	23.23	174	417282	24.277	ng	-0.01
Spiked Amount	25.000			Recovery =	97.12%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	18081	0.888	ng	# 44
3) Dichlorodifluoromethan...	4.84	85	13895	0.390	ng	95
4) Chloromethane	5.17	50	5281	0.220	ng	88
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	5.79	54	354	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.06	45	574506	45.524	ng	99
11) Acetonitrile	7.34	41	1394273	39.776	ng	99
12) Acrolein	7.55	56	9604	0.997	ng	98
13) Acetone	7.80	58	262668	20.126	ng	# 81
14) Trichlorofluoromethane	8.01	101	6091	0.194	ng	100
15) 2-Propanol (Isopropanol)	8.29	45	137993	3.180	ng	98
16) Acrylonitrile	8.61	53	3901	0.181	ng	# 30
17) 1,1-Dichloroethene	8.90	96	86	N.D.		
18) 2-Methyl-2-Propanol (t...	9.27	59	4825	0.111	ng	# 1
19) Methylene Chloride	9.23	84	1100	0.066	ng	92
20) 3-Chloro-1-propene (Al...	9.41	41	214	N.D.		
21) Trichlorotrifluoroethane	9.67	151	1036	0.083	ng	91
22) Carbon Disulfide	9.63	76	12675	0.215	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	11.20	73	107	N.D.		
26) Vinyl Acetate	11.26	86	9097	2.781	ng	# 1
27) 2-Butanone (MEK)	11.66	72	14485	1.374	ng	96
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.57	87	1001	0.065	ng	# 1
30) Ethyl Acetate	12.67	61	2616	0.462	ng	78
31) n-Hexane	12.58	57	99826	3.537	ng	98

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Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140923.D
 Acq On : 15 Sep 2009 3:03 am
 Operator : LM/CC
 Sample : P0903141-002dil (200ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 11:09:16 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	19727	0.709	ng	91
34) Tetrahydrofuran (THF)	13.38	72	3354	0.293	ng #	69
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	1436	0.062	ng #	42
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.80	61	322	N.D.		
40) 1-Butanol	14.97	56	208	N.D.		
41) Benzene	14.87	78	62263	0.941	ng	99
42) Carbon Tetrachloride	15.09	117	2835	0.128	ng	92
43) Cyclohexane	15.28	84	12138	0.498	ng	97
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.38	83	4587	0.210	ng #	44
47) Trichloroethene	16.43	130	189	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.51	57	136008	1.806	ng	95
50) Methyl Methacrylate	16.87	100	6226	1.015	ng #	1
51) n-Heptane	16.87	71	22074	1.287	ng	93
52) cis-1,3-Dichloropropene	17.65	75	303	N.D.		
53) 4-Methyl-2-pentanone	17.74	58	3390	0.224	ng	88
54) trans-1,3-Dichloropropene	18.36	75	989	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	131415	8.524	ng #	7
58) Toluene	18.98	91	380436	5.914	ng	99
59) 2-Hexanone	19.35	43	14928	0.380	ng	90
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	19.85	107	313	N.D.		
62) n-Butyl Acetate	20.16	43	26391	0.585	ng	85
63) n-Octane	20.26	57	7763	0.524	ng	96
64) Tetrachloroethene	20.46	166	95	N.D.		
65) Chlorobenzene	21.36	112	1297	N.D.		
66) Ethylbenzene	21.81	91	88112	1.198	ng	98
67) m- & p-Xylenes	22.03	91	212193	3.623	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	16465	0.382	ng	97
70) o-Xylene	22.65	91	75347	1.281	ng	99
71) n-Nonane	22.91	43	11080	0.313	ng	94
72) 1,1,2,2-Tetrachloroethane	22.69	83	96	N.D.		
74) Cumene	23.41	105	23783	0.319	ng	99
75) alpha-Pinene	23.90	93	942552	24.369	ng	92
76) n-Propylbenzene	24.04	91	23184	0.245	ng	91
77) 3-Ethyltoluene	24.17	105	63448	0.889	ng	100
78) 4-Ethyltoluene	24.22	105	30152	0.428	ng	99
79) 1,3,5-Trimethylbenzene	24.31	105	21642	0.369	ng	99

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Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140923.D
 Acq On : 15 Sep 2009 3:03 am
 Operator : LM/CC
 Sample : P0903141-002dil (200ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 11:09:16 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

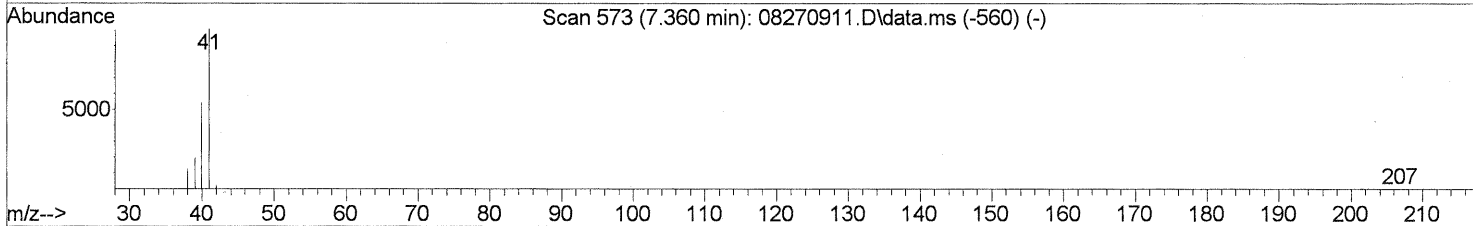
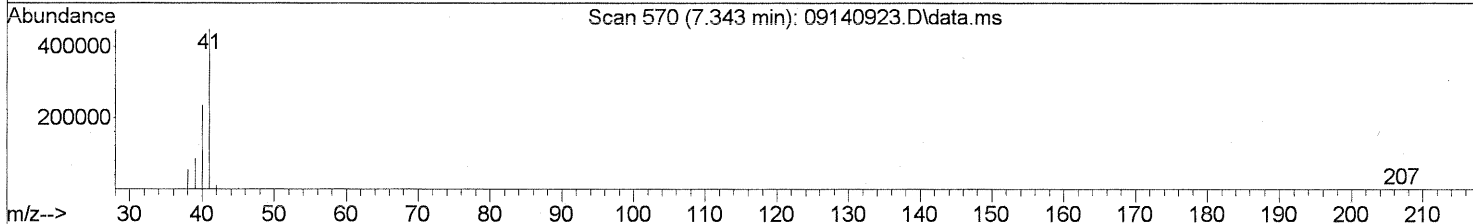
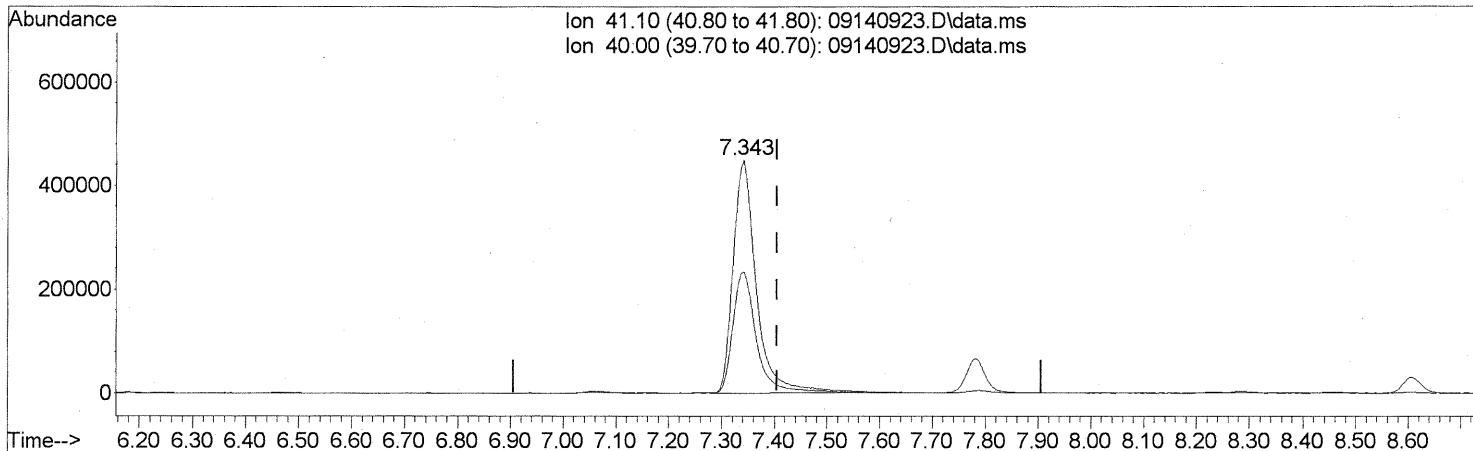
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	476	N.D.		
81) 2-Ethyltoluene	24.55	105	19127	0.261	ng	99
82) 1,2,4-Trimethylbenzene	24.82	105	78544	1.313	ng	89
83) n-Decane	24.93	57	10259	0.287	ng	95
84) Benzyl Chloride	25.00	91	1572	N.D.		
85) 1,3-Dichlorobenzene	25.03	146	556	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	1847	0.055	ng	86
87) sec-Butylbenzene	25.16	105	1010	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	26396	0.358	ng	97
89) 1,2,3-Trimethylbenzene	25.35	105	17120	0.273	ng	94
90) 1,2-Dichlorobenzene	25.52	146	280	N.D.		
91) d-Limonene	25.52	68	124185	5.201	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.45	57	10334	0.279	ng	75
94) 1,2,4-Trichlorobenzene	27.58	180	393	N.D.		
95) Naphthalene	27.72	128	24437	0.296	ng	97
96) n-Dodecane	27.69	57	16061	0.380	ng	88
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	23181	0.935	ng	95
99) tert-Butylbenzene	24.82	119	9594	0.166	ng	# 56
100) n-Butylbenzene	25.85	91	11192	0.168	ng	# 55

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140923.D
 Acq On : 15 Sep 2009 3:03
 Operator : LM/CC
 Sample : P0903141-002dil (200ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 11:09:16 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09140923.D\data.ms

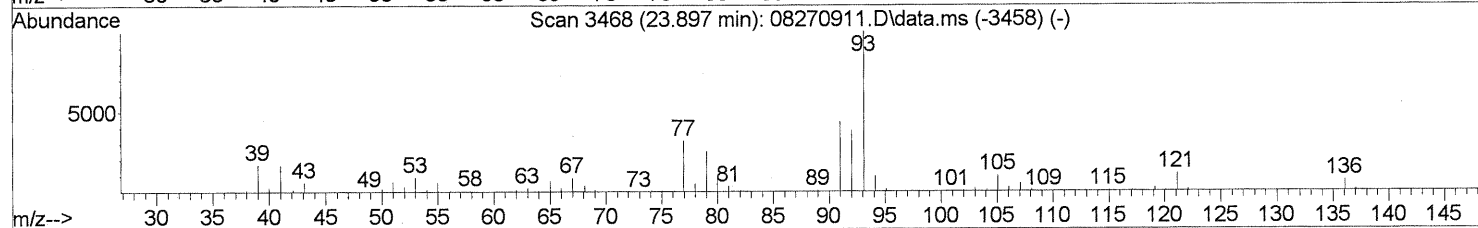
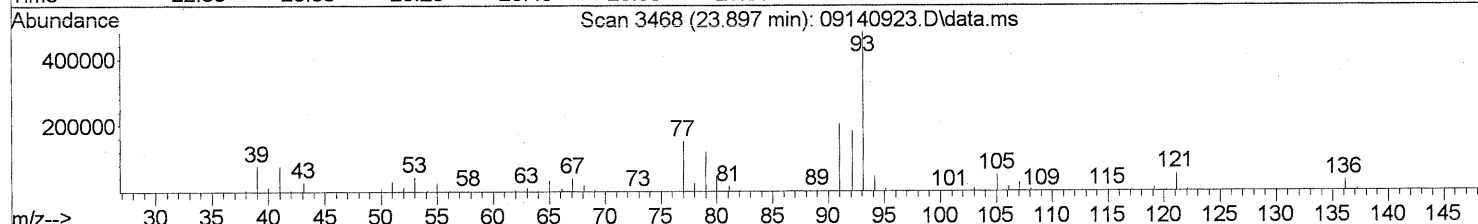
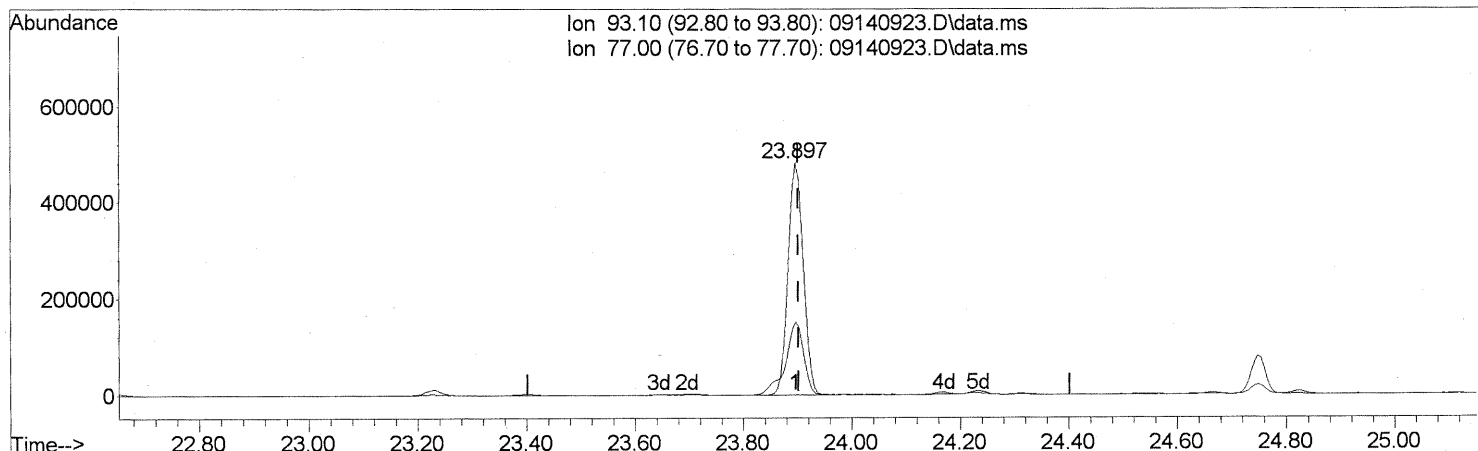
(11) Acetonitrile (T)
 7.343min (-0.063) 39.78ng
 response 1394273

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140923.D
 Acq On : 15 Sep 2009 3:03
 Operator : LM/CC
 Sample : P0903141-002dil (200ml)
 Misc : EH&E 105015
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 15 11:09:16 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09140923.D\data.ms

(75) alpha-Pinene (T)
 23.897min (-0.006) 24.37ng
 response 942552

Ion	Exp%	Act%
93.10	100	100
77.00	33.10	37.46
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105016
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00517

CAS Project ID: P0903141
 CAS Sample ID: P0903141-003

Date Collected: 9/3/09
 Date Received: 9/4/09
 Date Analyzed: 9/11/09 & 9/21/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	4.7	0.62	2.7	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.62	0.61	0.13	
74-87-3	Chloromethane	0.77	0.12	0.37	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.089	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.049	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	ND	0.12	ND	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	360	6.2	190	3.3	
75-05-8	Acetonitrile	270	0.62	160	0.37	D
107-02-8	Acrolein	9.5	0.62	4.1	0.27	
67-64-1	Acetone	150	6.2	62	2.6	
75-69-4	Trichlorofluoromethane	1.6	0.12	0.28	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	26	0.62	11	0.25	
107-13-1	Acrylonitrile	ND	0.62	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.76	0.12	0.099	0.016	
75-15-0	Carbon Disulfide	1.2	0.62	0.40	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.8	
78-93-3	2-Butanone (MEK)	8.3	0.62	2.8	0.21	

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

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

D = The reported result is from a dilution.

Verified By: Re Date: 9/21/09 **71**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105016
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00517

CAS Project ID: P0903141
 CAS Sample ID: P0903141-003

Date Collected: 9/3/09
 Date Received: 9/4/09
 Date Analyzed: 9/11/09 & 9/21/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	4.9	0.62	1.4	0.17	
110-54-3	n-Hexane	30	0.62	8.6	0.18	
67-66-3	Chloroform	6.1	0.12	1.3	0.025	
109-99-9	Tetrahydrofuran (THF)	1.4	0.62	0.48	0.21	
107-06-2	1,2-Dichloroethane	ND	0.12	ND	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.023	
71-43-2	Benzene	7.8	0.12	2.4	0.039	
56-23-5	Carbon Tetrachloride	1.0	0.12	0.16	0.020	
110-82-7	Cyclohexane	4.3	0.62	1.3	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.027	
75-27-4	Bromodichloromethane	1.7	0.12	0.26	0.019	
79-01-6	Trichloroethene	ND	0.12	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.62	ND	0.15	
142-82-5	n-Heptane	11	0.62	2.8	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	1.9	0.62	0.47	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	45	0.62	12	0.16	
591-78-6	2-Hexanone	2.0	0.62	0.48	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	4.5	0.62	0.95	0.13	

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: Re

Date: 9/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105016
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu/Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00517

CAS Project ID: P0903141
CAS Sample ID: P0903141-003

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/11/09 & 9/21/09
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	4.0	0.62	0.86	0.13	
127-18-4	Tetrachloroethene	ND	0.12	ND	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	9.2	0.62	2.1	0.14	
179601-23-1	m,p-Xylenes	28	0.62	6.4	0.14	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	2.9	0.62	0.69	0.15	
95-47-6	o-Xylene	10	0.62	2.3	0.14	
111-84-2	n-Nonane	2.4	0.62	0.46	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	2.5	0.62	0.50	0.13	
80-56-8	alpha-Pinene	140	0.62	26	0.11	D
103-65-1	n-Propylbenzene	1.9	0.62	0.38	0.13	
622-96-8	4-Ethyltoluene	3.3	0.62	0.68	0.13	
108-67-8	1,3,5-Trimethylbenzene	2.8	0.62	0.56	0.13	
95-63-6	1,2,4-Trimethylbenzene	10	0.62	2.1	0.13	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.021	
106-46-7	1,4-Dichlorobenzene	0.24	0.12	0.040	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.021	
5989-27-5	d-Limonene	41	0.62	7.4	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	ND	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	0.62	ND	0.084	
91-20-3	Naphthalene	2.3	0.62	0.43	0.12	
87-68-3	Hexachlorobutadiene	ND	0.62	ND	0.058	

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

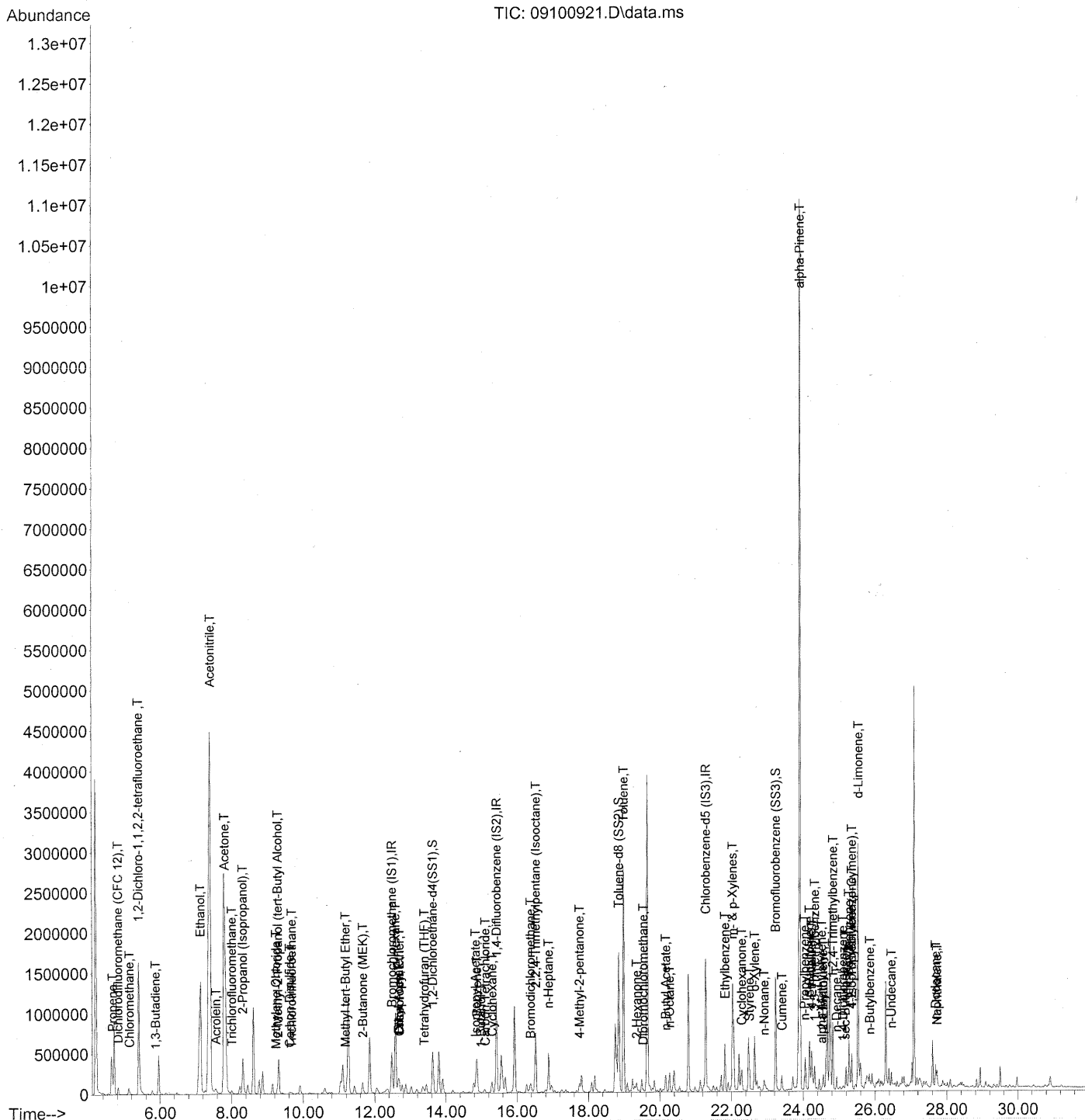
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

Verified By: Ru Date: 9/21/09 **73**

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 12:26 am
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 20:20:52 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 12:26 am
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 20:20:52 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	263144	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	1309941	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	670336	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	506460	24.287	ng	-0.02
Spiked Amount	25.000			Recovery =	97.16%	
57) Toluene-d8 (SS2)	18.85	98	1451189	24.224	ng	-0.01
Spiked Amount	25.000			Recovery =	96.88%	
73) Bromofluorobenzene (SS3)	23.23	174	454591	26.366	ng	-0.01
Spiked Amount	25.000			Recovery =	105.48%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	72114	3.789	ng	95
3) Dichlorodifluoromethan...	4.82	85	81024	2.431	ng	100
4) Chloromethane	5.15	50	13831	0.617	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	1337	0.097	ng	# 43
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	789	0.050	ng	# 3
8) Bromomethane	6.36	94	485	N.D.		
9) Chloroethane	6.69	64	436	N.D.		
10) Ethanol	7.13	45	3380472	286.408	ng	99
11) Acetonitrile	7.41	41	9601090	292.858	ng	99
12) Acrolein	7.56	56	68825	7.637	ng	96
13) Acetone	7.81	58	1458963	119.525	ng	# 77
14) Trichlorofluoromethane	8.01	101	37429	1.274	ng	99
15) 2-Propanol (Isopropanol)	8.31	45	852057	20.997	ng	98
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	8.99	96	133	N.D.		
18) 2-Methyl-2-Propanol (t...	9.29	59	17171	0.423	ng	# 1
19) Methylene Chloride	9.23	84	3538	0.229	ng	97
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.67	151	7140	0.614	ng	95
22) Carbon Disulfide	9.62	76	54938	0.997	ng	99
23) trans-1,2-Dichloroethene	10.60	61	406	N.D.		
24) 1,1-Dichloroethane	11.05	63	816	N.D.		
25) Methyl tert-Butyl Ether	11.18	73	3706	0.085	ng	90
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.66	72	66023	6.696	ng	# 89
28) cis-1,2-Dichloroethene	12.29	61	98	N.D.		
29) Diisopropyl Ether	12.68	87	16975	1.179	ng	# 1
30) Ethyl Acetate	12.67	61	20811	3.928	ng	92
31) n-Hexane	12.58	57	641519	24.306	ng	98

Sec Art

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 12:26 am
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 20:20:52 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	128942	4.956 ng		97
34) Tetrahydrofuran (THF)	13.39	72	12178	1.139 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.	d	
38) 1,1,1-Trichloroethane	14.17	97	1160	N.D.		
39) Isopropyl Acetate	14.83	61	7483	0.751 ng	#	1
40) 1-Butanol	14.98	56	1388	0.085 ng	#	38
41) Benzene	14.87	78	388199	6.304 ng		99
42) Carbon Tetrachloride	15.10	117	17186	0.831 ng		97
43) Cyclohexane	15.29	84	79338	3.496 ng		92
44) tert-Amyl Methyl Ether	15.84	73	1691	N.D.		
45) 1,2-Dichloropropane	16.11	63	206	N.D.		
46) Bromodichloromethane	16.37	83	28401	1.400 ng	#	53
47) Trichloroethene	16.44	130	634	N.D.		
48) 1,4-Dioxane	16.49	88	367	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	856711	12.225 ng	HT	95
50) Methyl Methacrylate	16.75	100	104	N.D.		
51) n-Heptane	16.88	71	147594	9.247 ng		97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.75	58	21793	1.550 ng		98
54) trans-1,3-Dichloropropene	18.34	75	541	N.D.		
55) 1,1,2-Trichloroethane	18.56	97	548	N.D.		
58) Toluene	18.98	91	2329846	36.109 ng		99
59) 2-Hexanone	19.35	43	62437m	1.583 ng		
60) Dibromochloromethane	19.53	129	1169	0.072 ng		98
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.16	43	164421	3.634 ng		94
63) n-Octane	20.27	57	48000	3.233 ng		99
64) Tetrachloroethene	20.45	166	603	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	21.82	91	548970	7.439 ng		100
67) m- & p-Xylenes	22.03	91	1326564	22.579 ng		99
68) Bromoform	22.14	173	88	N.D.		
69) Styrene	22.50	104	101974	2.357 ng		99
70) o-Xylene	22.65	91	475778	8.062 ng		98
71) n-Nonane	22.91	43	68384	1.928 ng		92
72) 1,1,2,2-Tetrachloroethane	22.64	83	1133	N.D.		
74) Cumene	23.41	105	148413	1.984 ng		97
75) alpha-Pinene	23.90	93	5353529	137.986 ng	See bil	92
76) n-Propylbenzene	24.04	91	143228	1.507 ng	#	80
77) 3-Ethyltoluene	24.17	105	402162	5.620 ng		100
78) 4-Ethyltoluene	24.22	105	190261	2.694 ng		99
79) 1,3,5-Trimethylbenzene	24.31	105	131574	2.238 ng		99

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 12:26 am
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 20:20:52 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

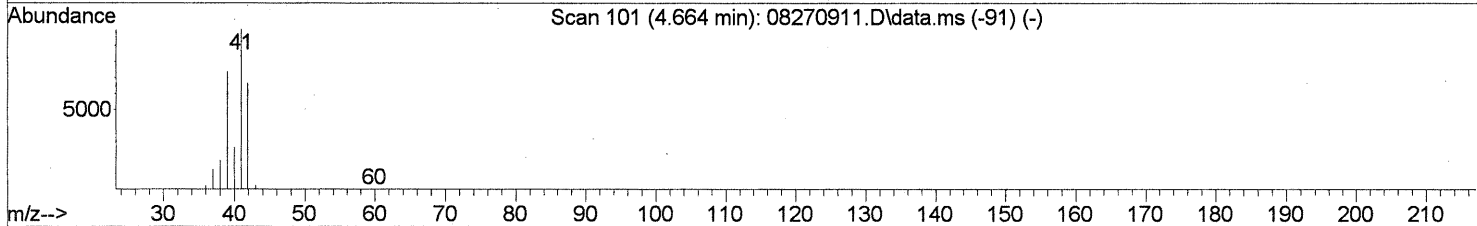
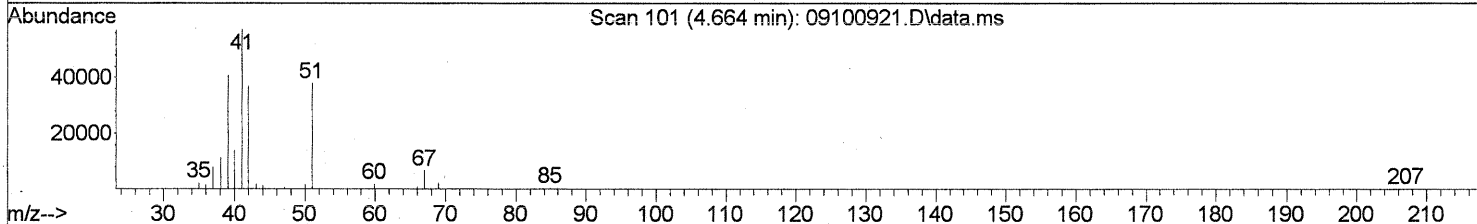
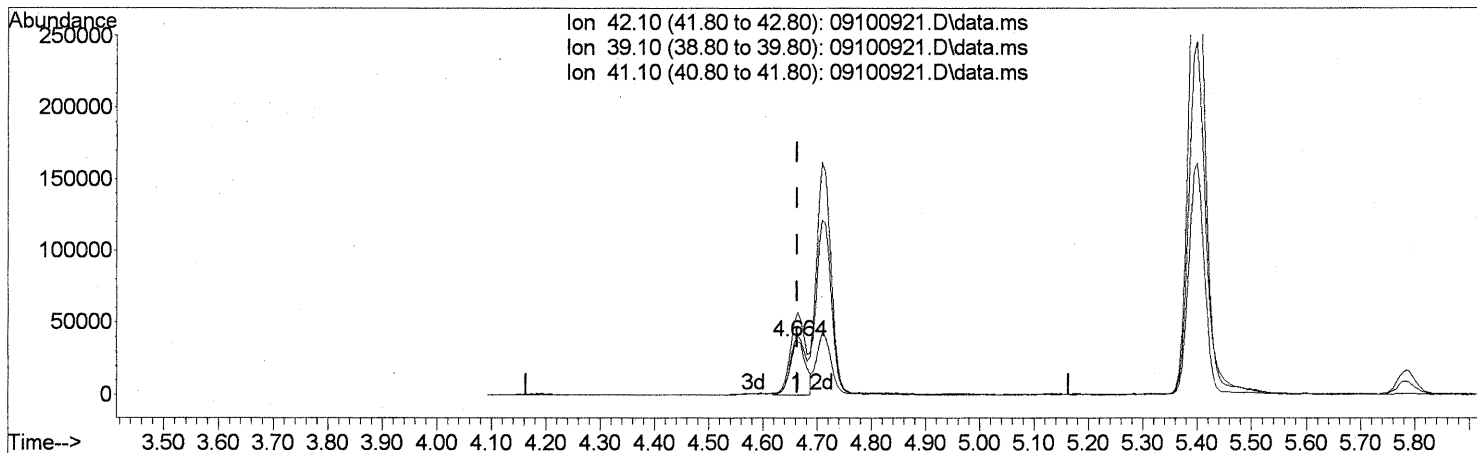
Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	3897	0.126	ng	# 68
81) 2-Ethyltoluene	24.55	105	120614	1.643	ng	98
82) 1,2,4-Trimethylbenzene	24.82	105	498595	8.310	ng	90
83) n-Decane	24.93	57	61756	1.724	ng	91
84) Benzyl Chloride	24.99	91	1740	N.D.		
85) 1,3-Dichlorobenzene	25.02	146	100	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	6633	0.196	ng	100
87) sec-Butylbenzene	25.17	105	10028	0.122	ng	# 75
88) 4-Isopropyltoluene (p-...	25.35	119	160702	2.175	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	109802	1.746	ng	95
90) 1,2-Dichlorobenzene	25.52	146	128	N.D.		
91) d-Limonene	25.53	68	792003	33.066	ng	89
92) 1,2-Dibromo-3-Chloropr...	26.46	157	207	N.D.		
93) n-Undecane	26.45	57	64686	1.739	ng	91
94) 1,2,4-Trichlorobenzene	27.58	180	190	N.D.		
95) Naphthalene	27.72	128	151540	1.827	ng	94
96) n-Dodecane	27.69	57	85242	2.011	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	141587	5.691	ng	92
99) tert-Butylbenzene	25.27	119	19355	0.333	ng	93
100) n-Butylbenzene	25.85	91	52549	0.786	ng	# 61

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

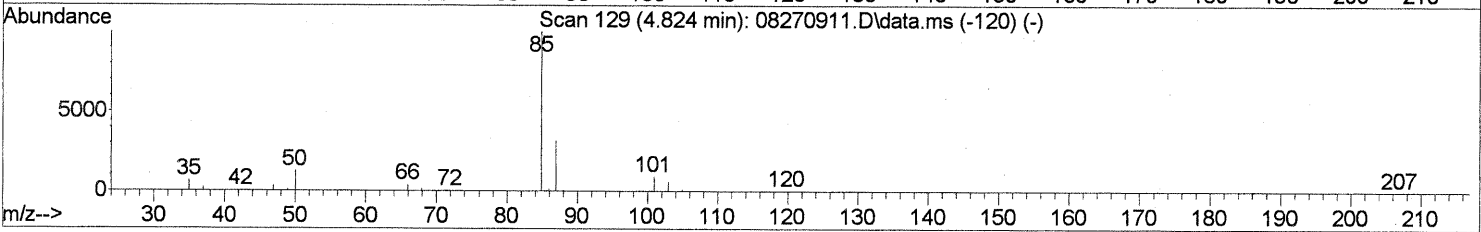
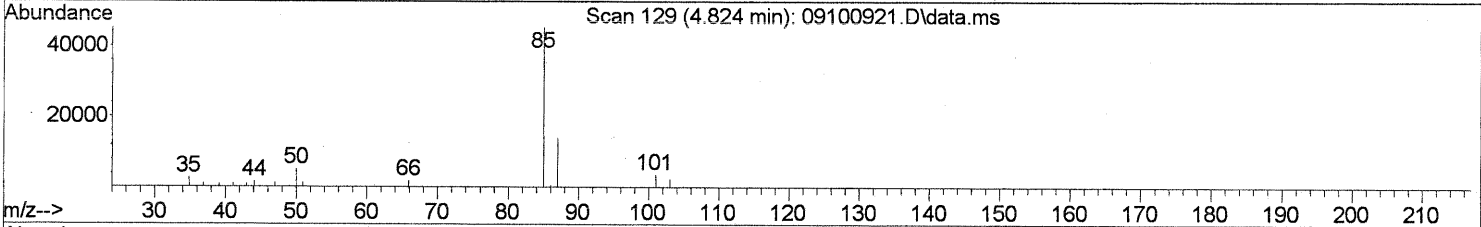
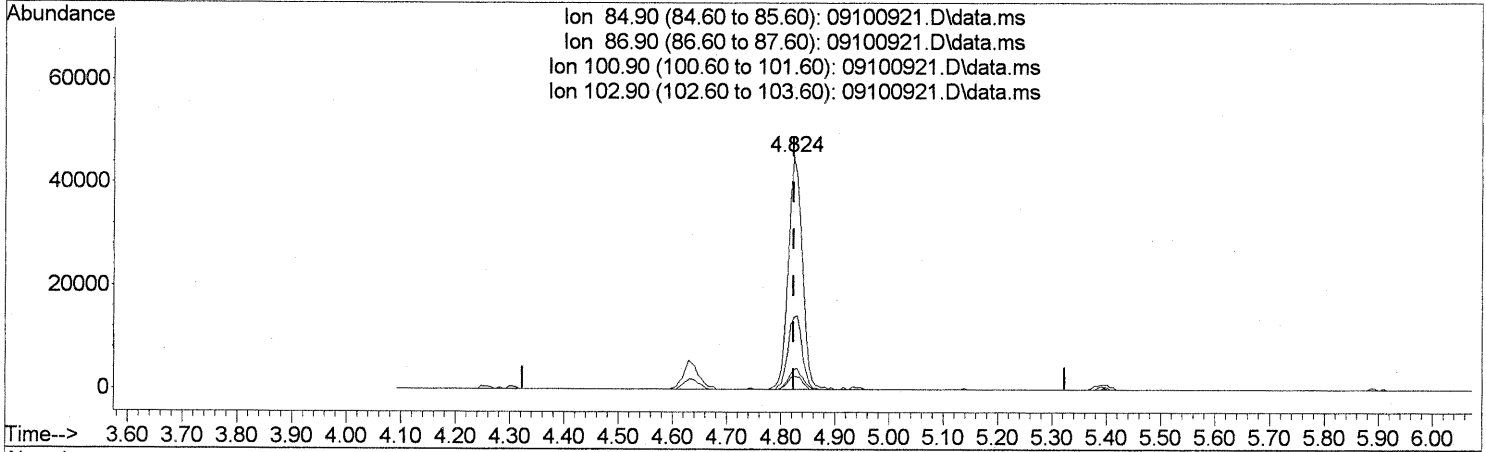
(2) Propene (T)
 4.664min (-0.000) 3.79ng
 response 72114

Ion	Exp%	Act%
42.10	100	100
39.10	109.70	105.93
41.10	149.80	157.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
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TIC: 09100921.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.824min (-0.000) 2.43ng

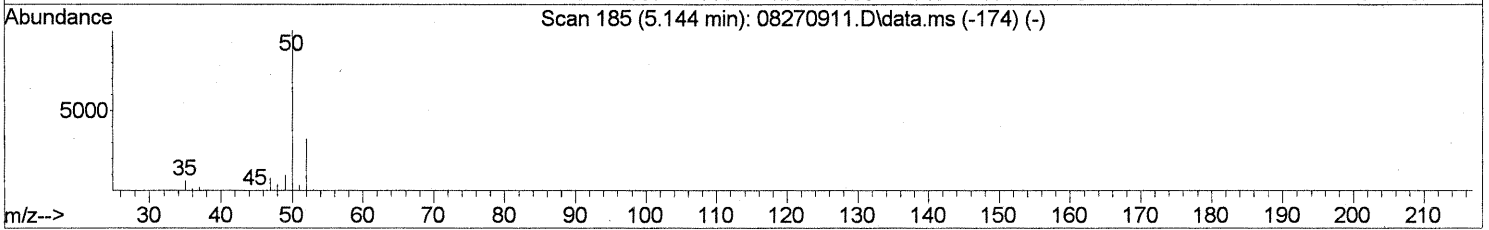
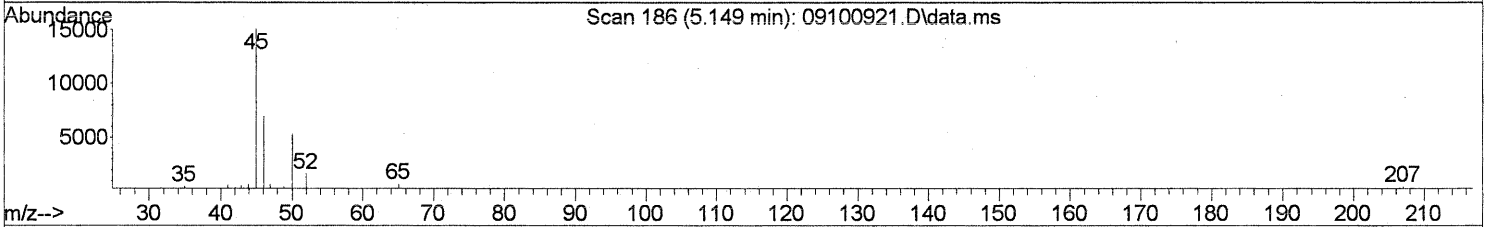
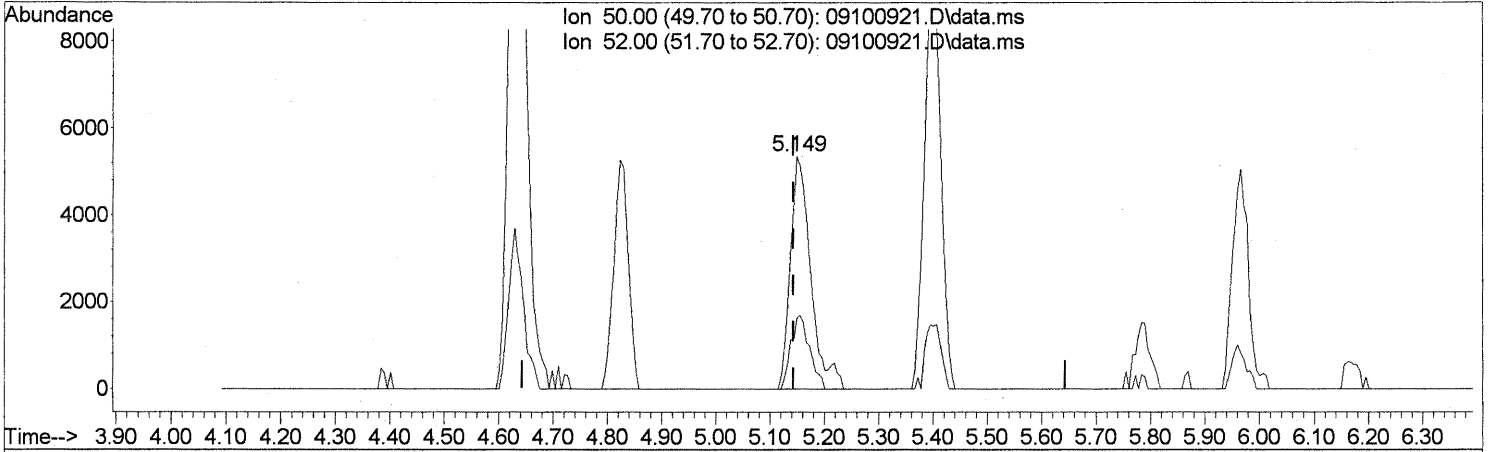
response 81024

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.96
100.90	8.80	8.69
102.90	5.60	5.75

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
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 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
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 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

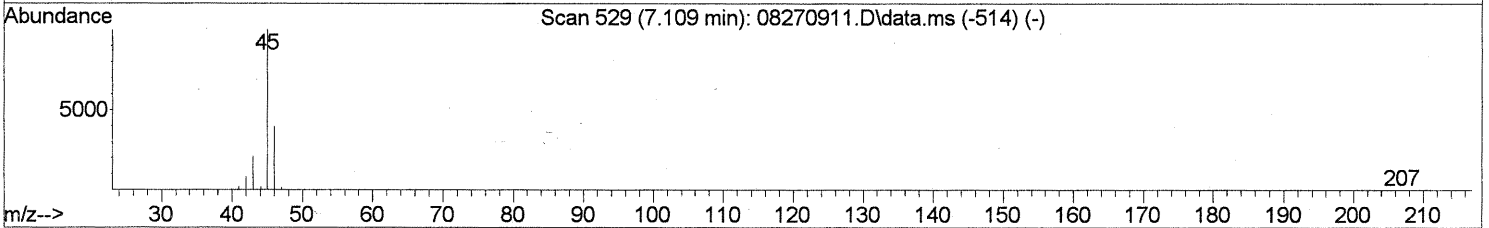
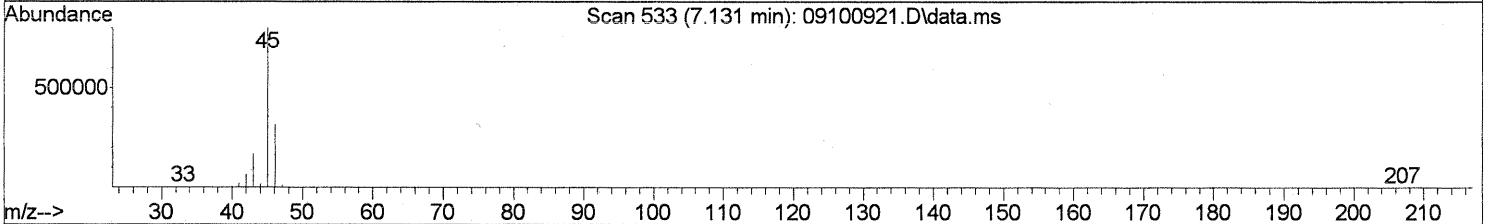
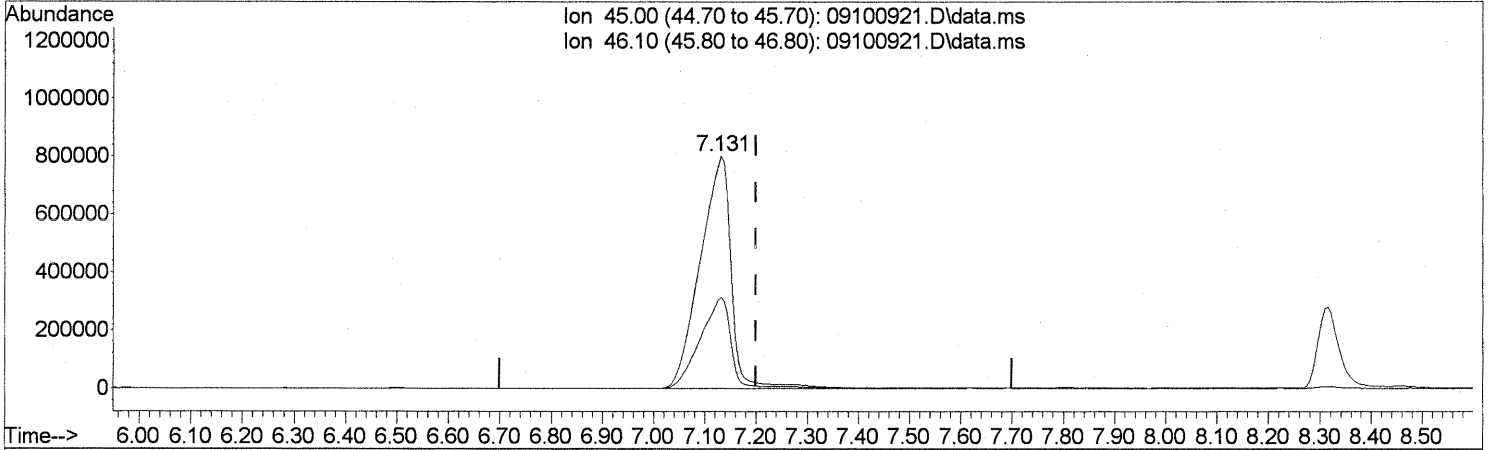
(4) Chloromethane (T)
 5.149min (+0.006) 0.62ng
 response 13831

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	28.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
Data File : 09100921.D
Acq On : 11 Sep 2009 00:26
Operator : LM/CC
Sample : P0903141-003 (1000ml)
Misc : EH&E 105016
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



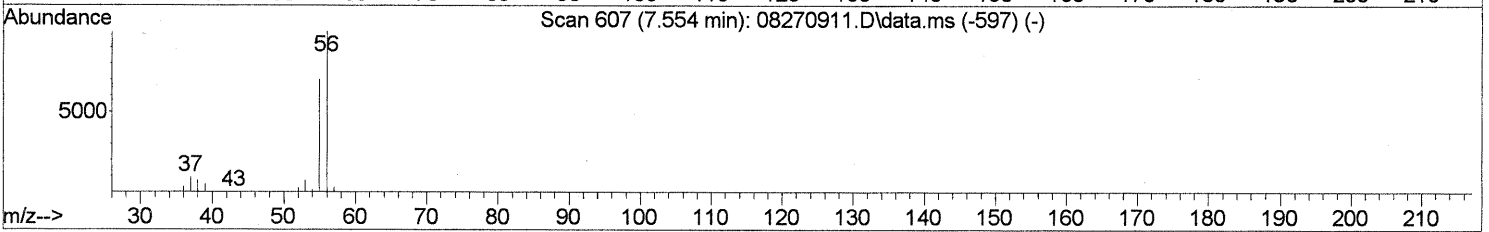
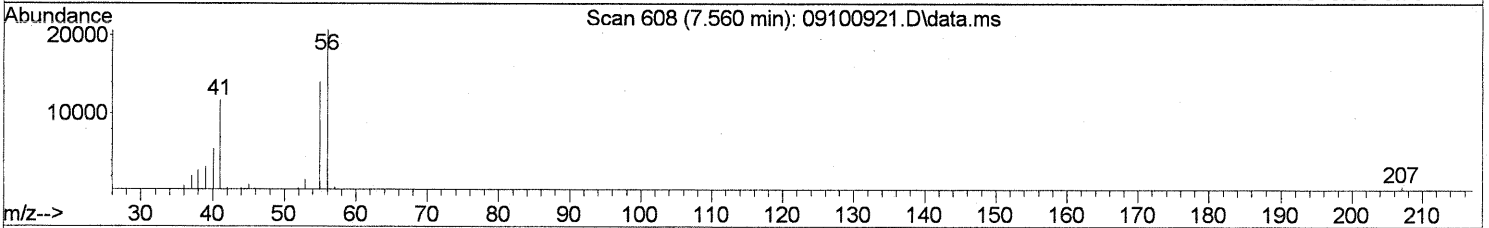
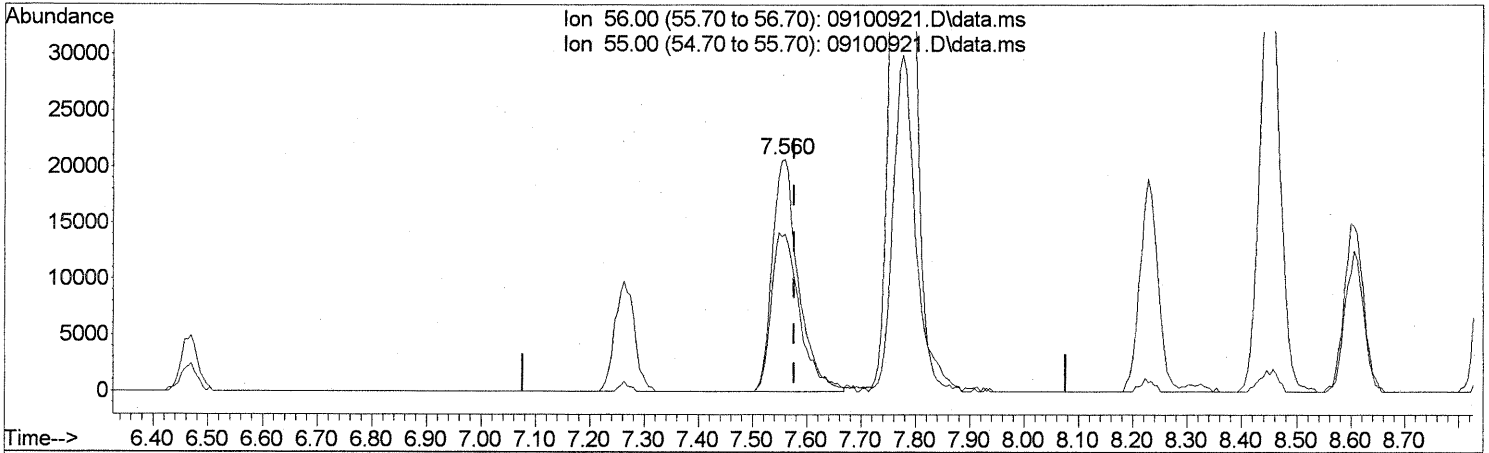
TIC: 09100921.D\data.ms

(10) Ethanol (T)		
7.131min (-0.069) 286.41ng		
response 3380472		
Ion	Exp%	Act%
45.00	100	100
46.10	38.20	38.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

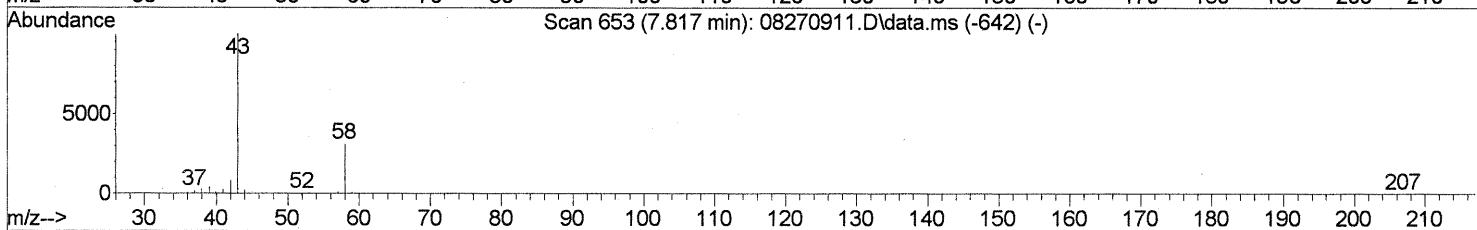
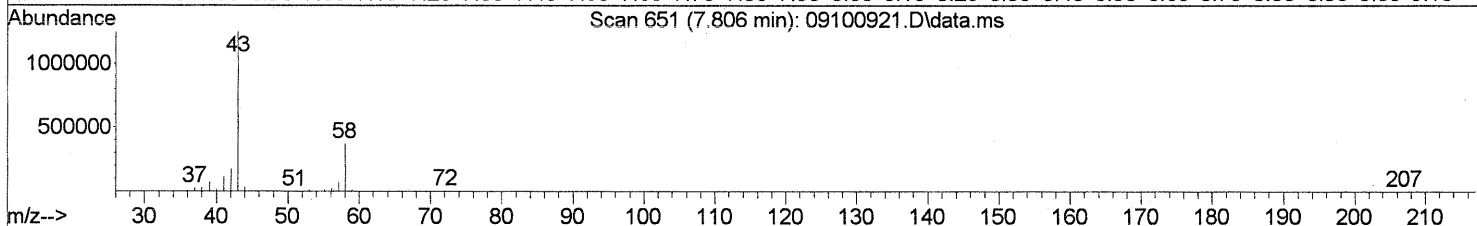
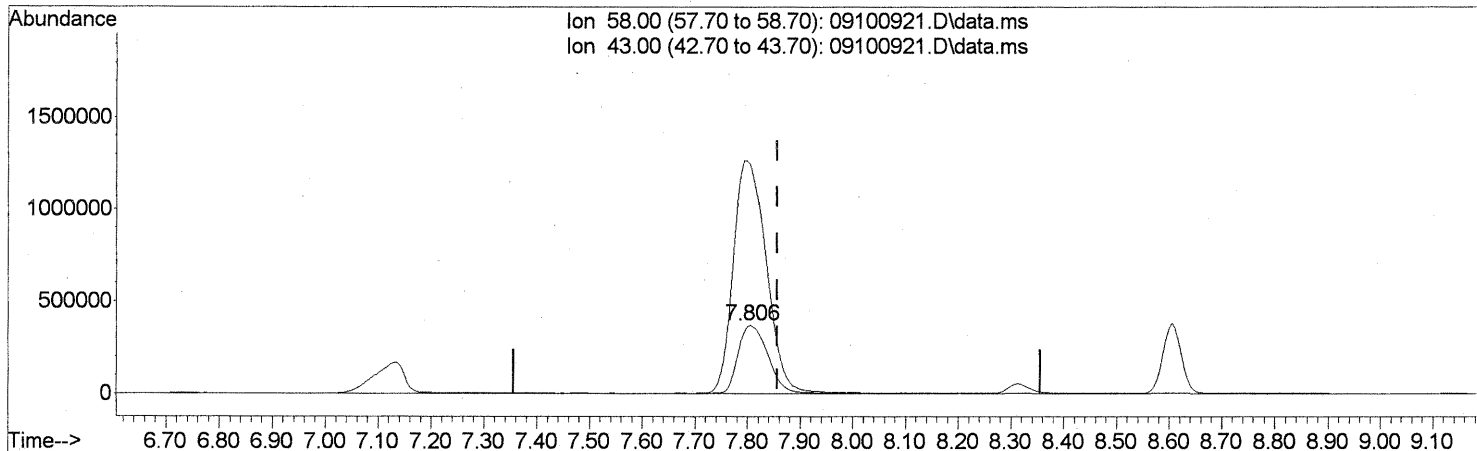
(12) Acrolein (T)
 7.560min (-0.017) 7.64ng
 response 68825

Ion	Exp%	Act%
56.00	100	100
55.00	71.10	74.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

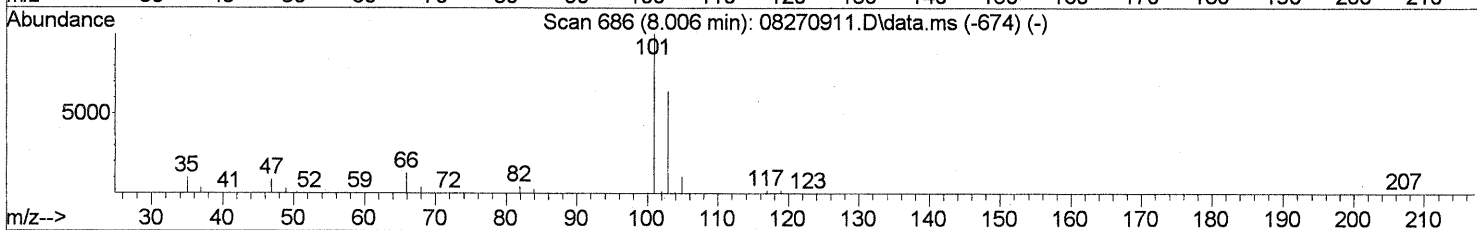
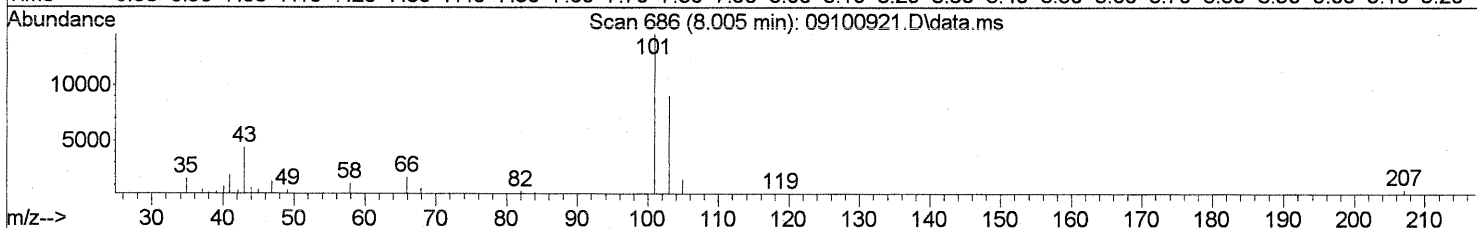
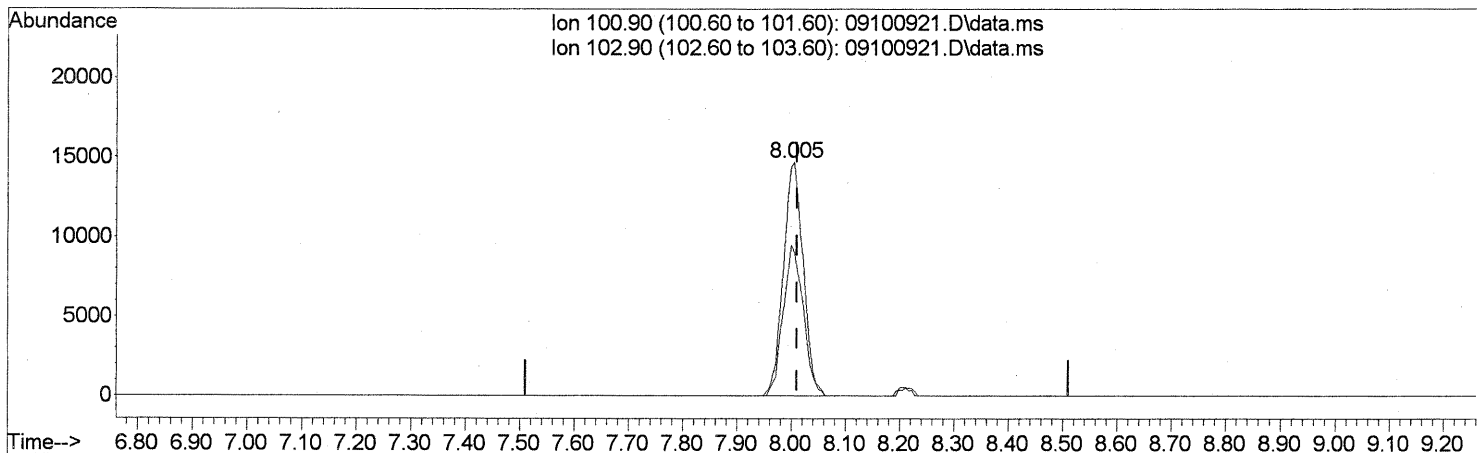
(13) Acetone (T)
 7.806min (-0.051) 119.53ng
 response 1458963

Ion	Exp%	Act%
58.00	100	100
43.00	331.30	378.50#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(14) Trichlorofluoromethane (T)

8.005min (-0.006) 1.27ng

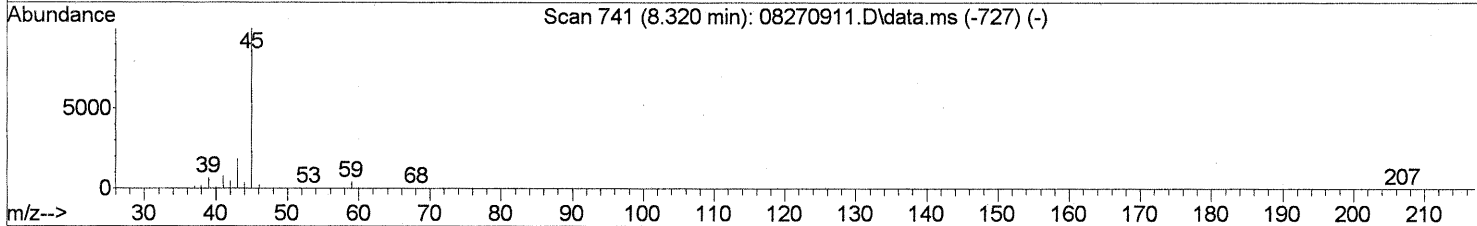
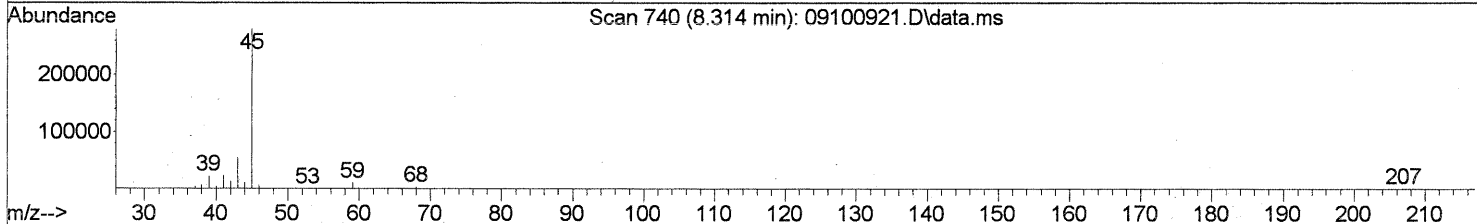
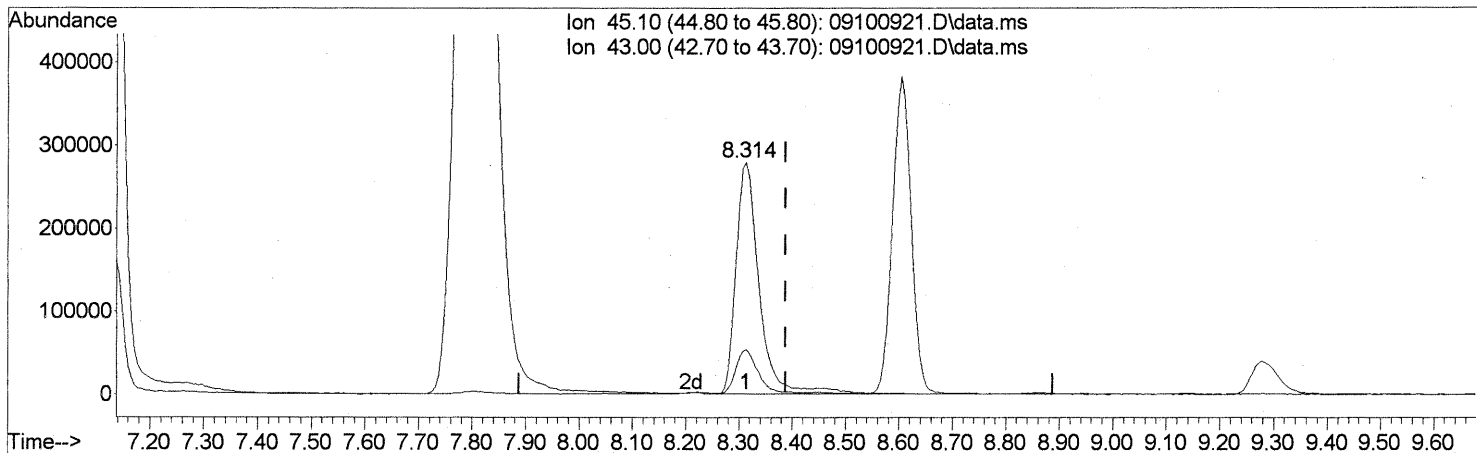
response 37429

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	65.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

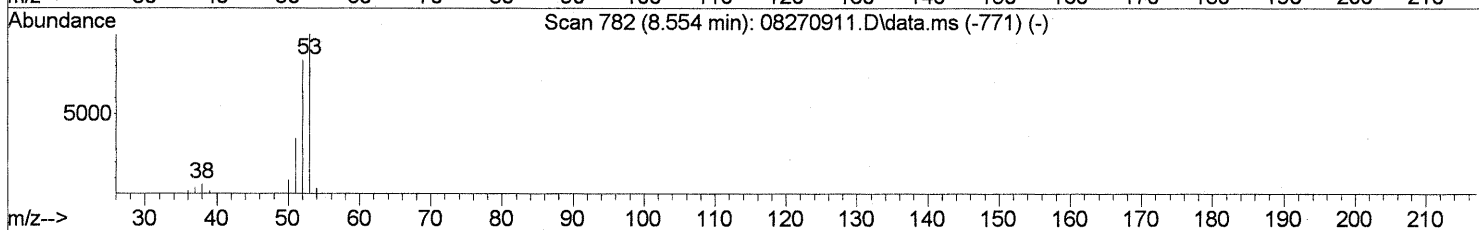
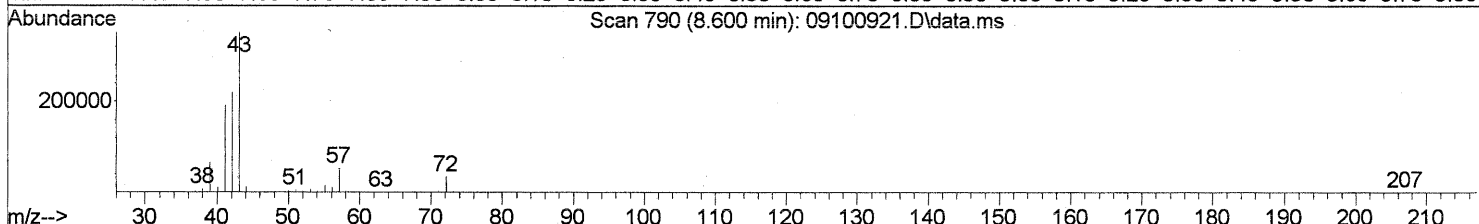
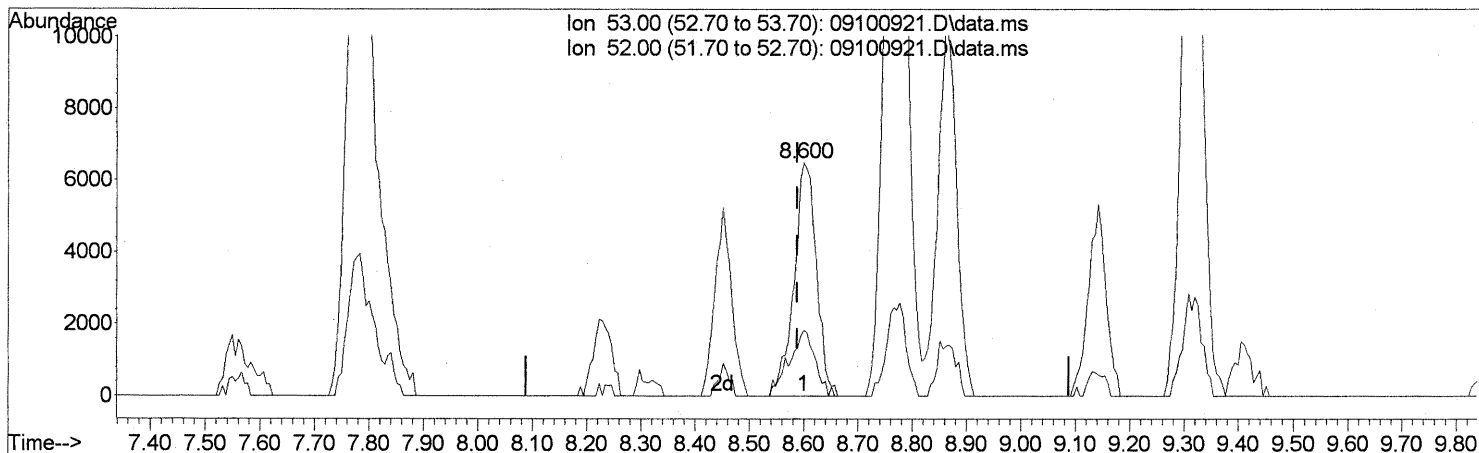
(15) 2-Propanol (Isopropanol) (T)
 8.314min (-0.074) 21.00ng
 response 852057

Ion	Exp%	Act%
45.10	100	100
43.00	18.70	17.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(16) Acrylonitrile (T)
 8.600min (+0.011) 0.93ng
 response 18707

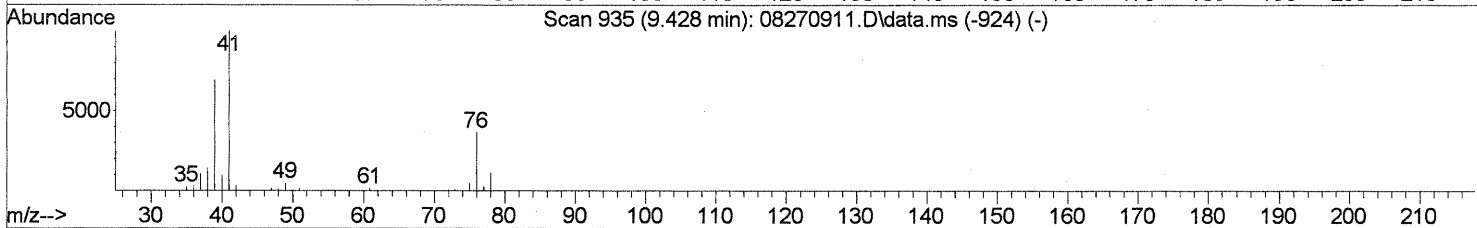
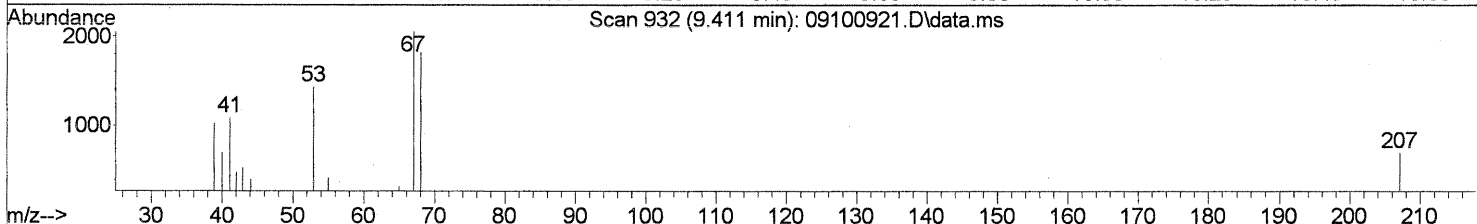
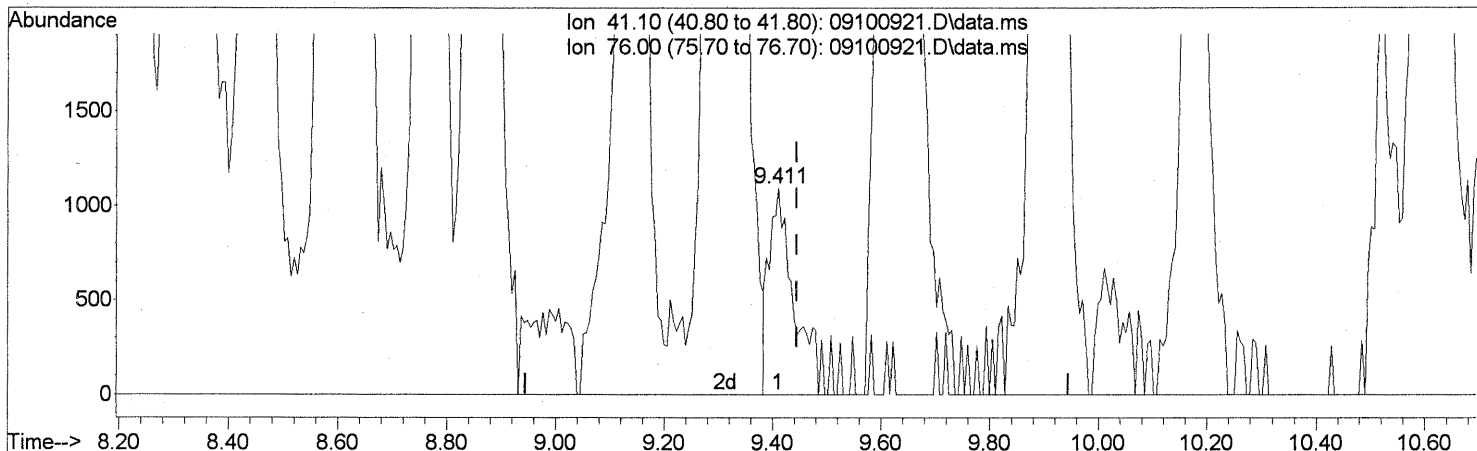
Ion	Exp%	Act%
53.00	100	100
52.00	80.50	32.11#
0.00	0.00	0.00
0.00	0.00	0.00

FP
 LM 9/20/09
 Em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(20) 3-Chloro-1-propene (Allyl Chloride) (T)
 9.411min (-0.034) 0.15ng
 response 3560

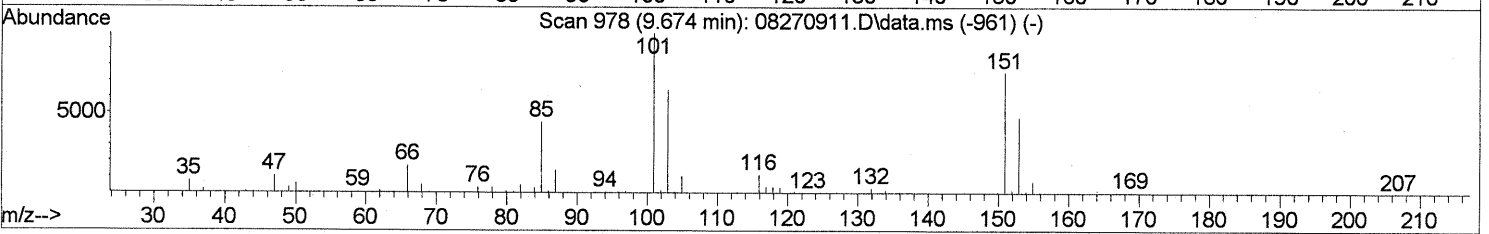
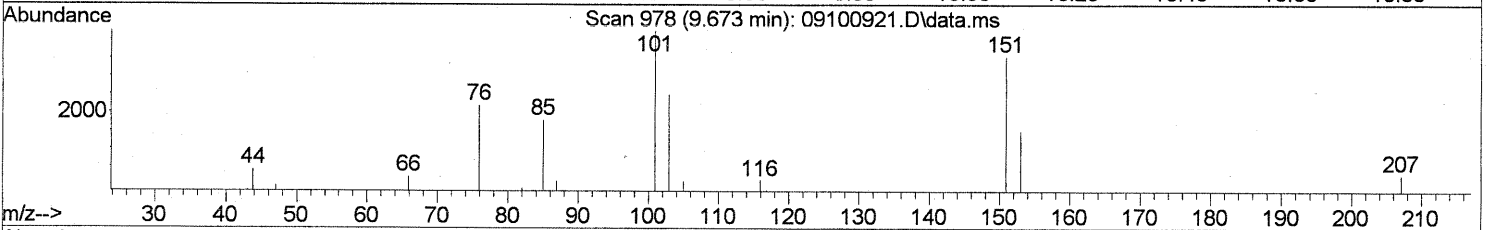
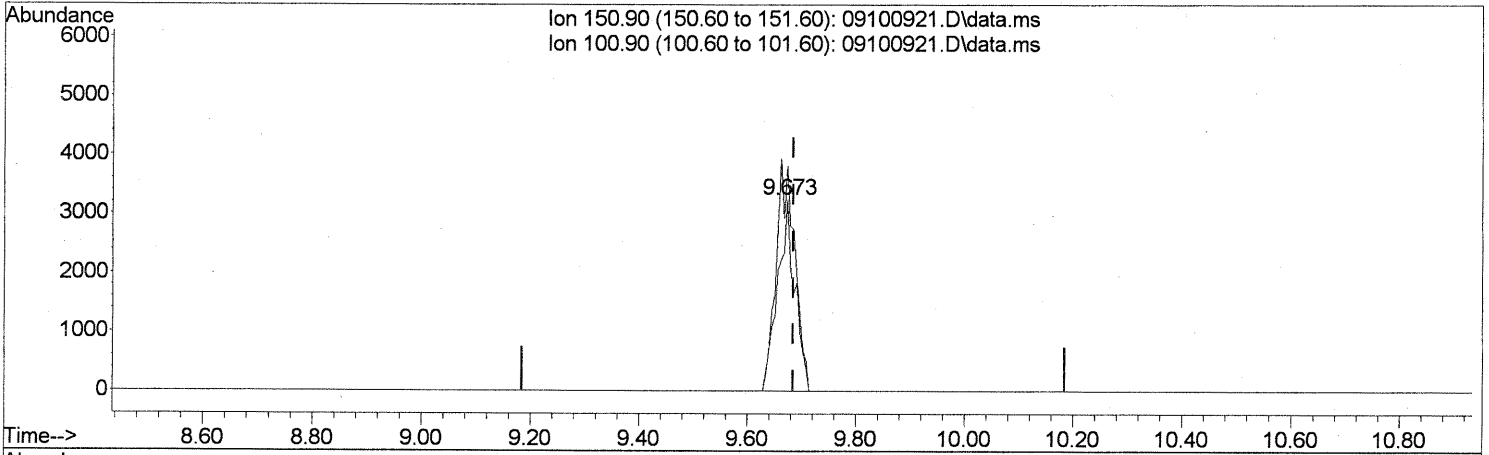
Ion	Exp%	Act%
41.10	100	100
76.00	33.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
LM 9/20/09
Tom 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.673min (-0.011) 0.61ng

response 7140

Ion Exp% Act%

150.90 100 100

100.90 138.30 131.75

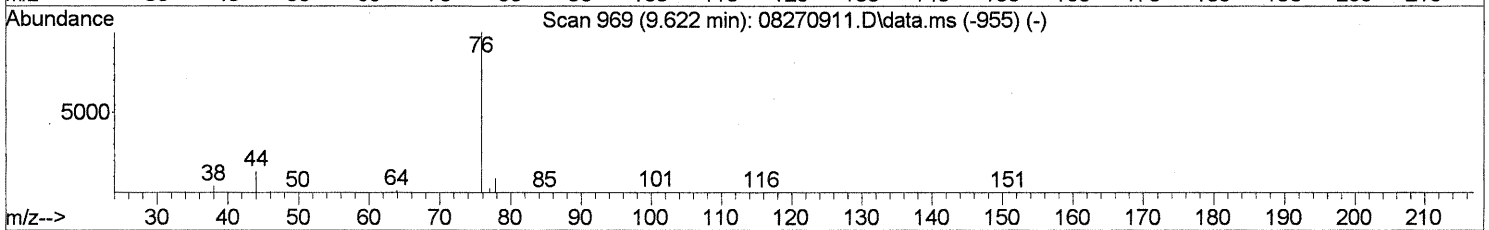
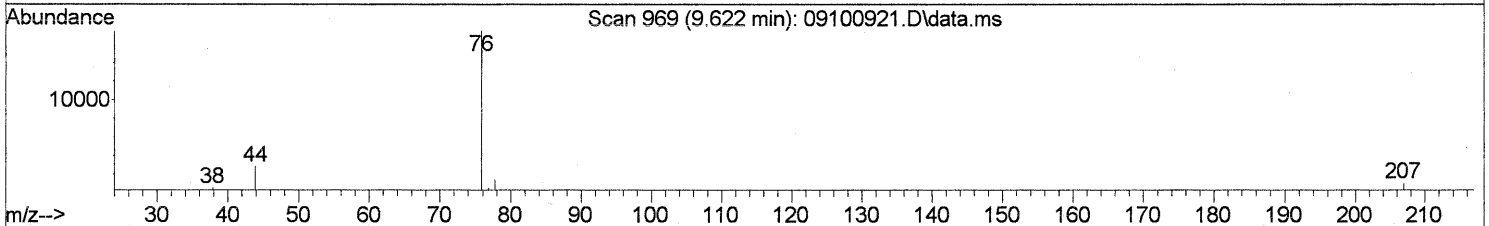
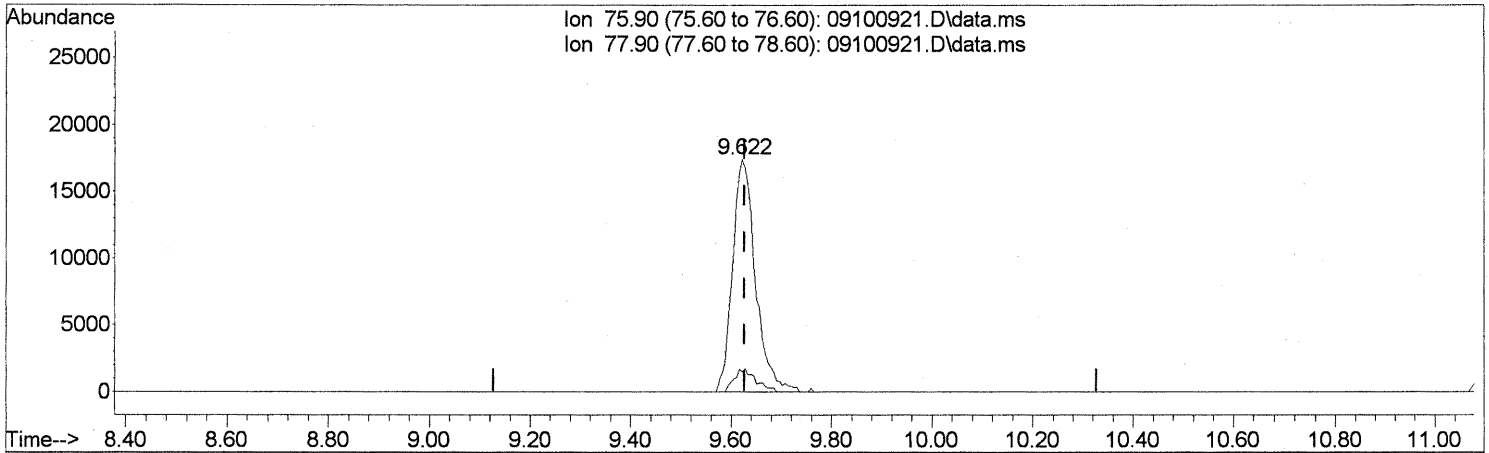
0.00 0.00 0.00

0.00 0.00 0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
Data File : 09100921.D
Acq On : 11 Sep 2009 00:26
Operator : LM/CC
Sample : P0903141-003 (1000ml)
Misc : EH&E 105016
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



TIC: 09100921.D\data.ms

(22) Carbon Disulfide (T)

9.622min (-0.006) 1.00ng

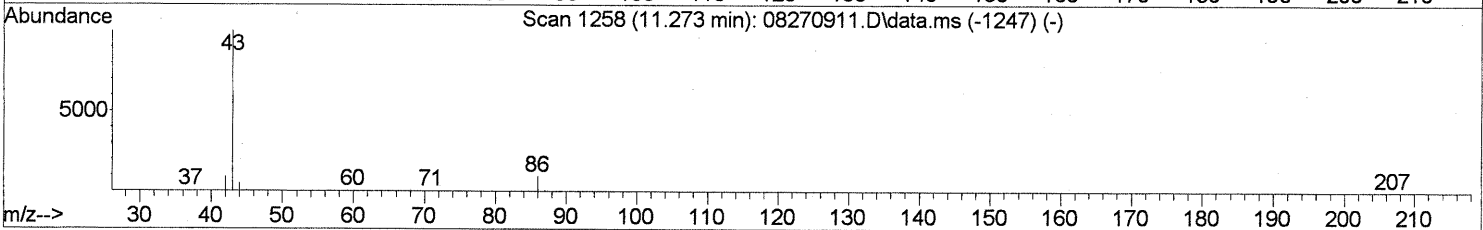
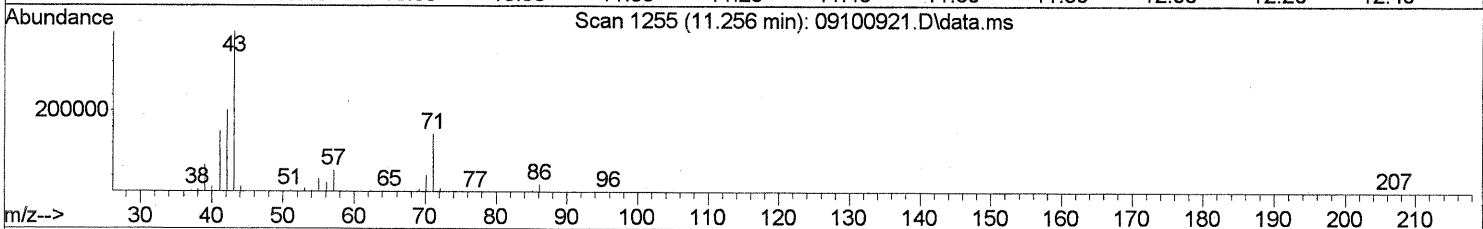
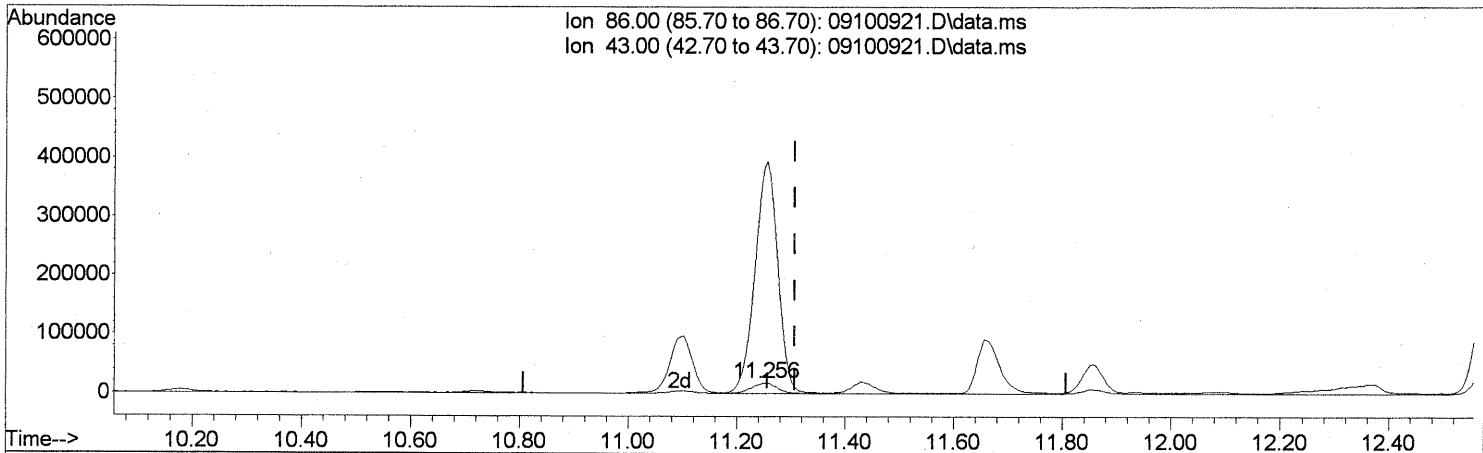
response 54938

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	9.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

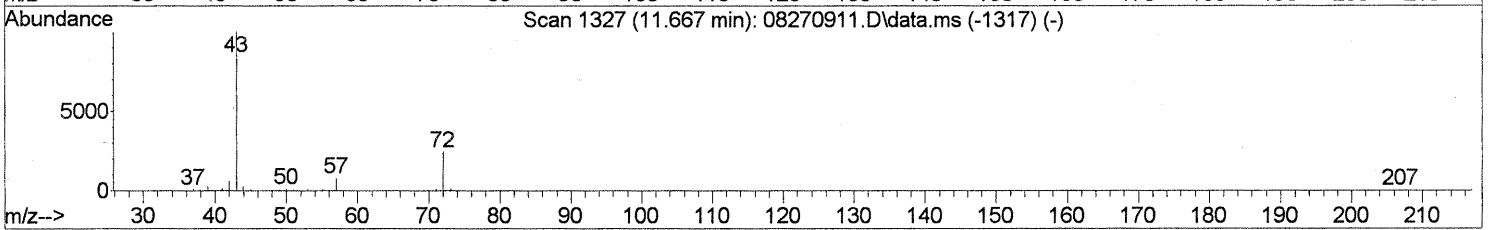
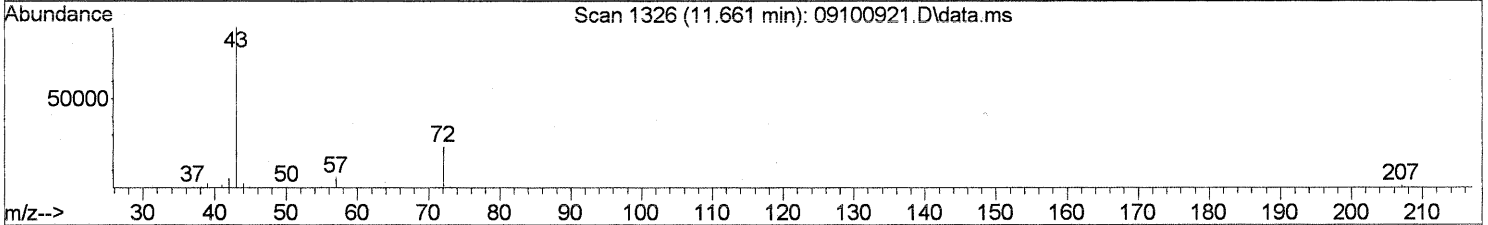
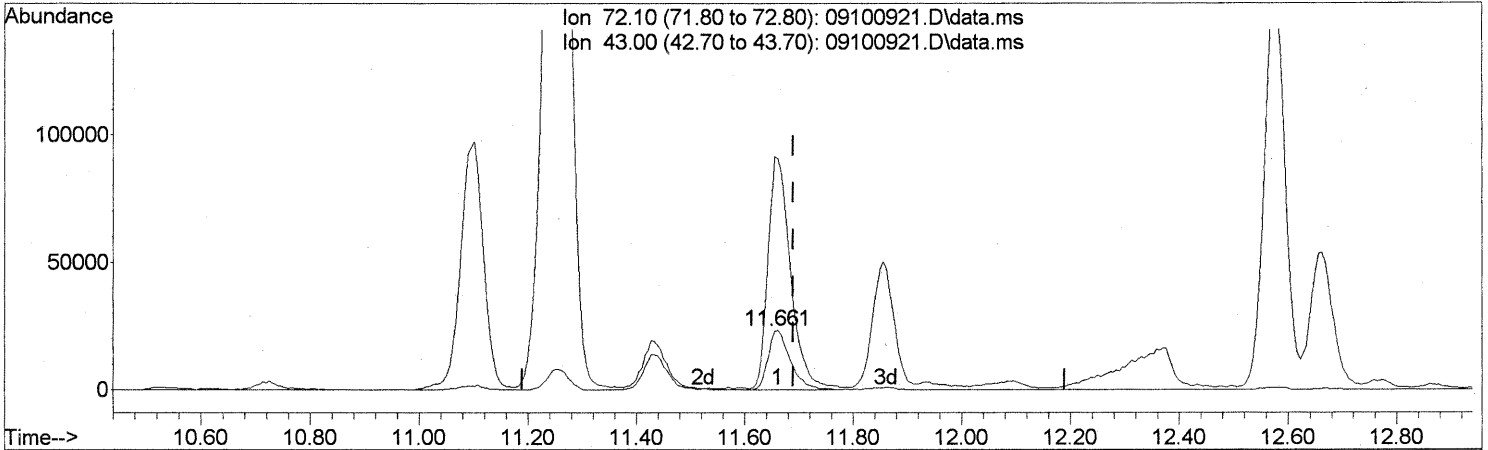
(26) Vinyl Acetate (T)		
11.256min (-0.051) 18.18ng		
response 55611		
Ion	Exp%	Act%
86.00	100	100
43.00	1118.60	2067.29#
0.00	0.00	0.00
0.00	0.00	0.00

FP
11/9/20/09
gem 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

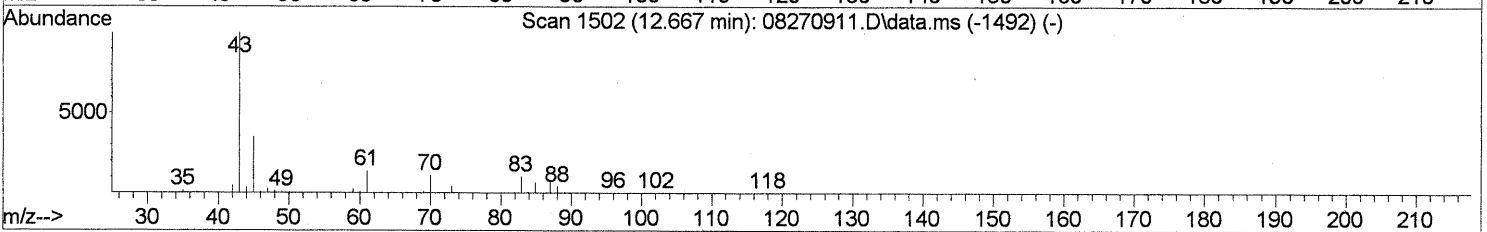
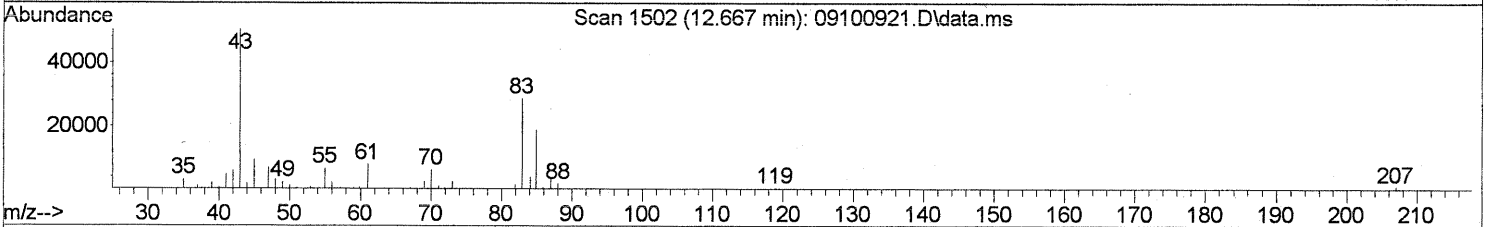
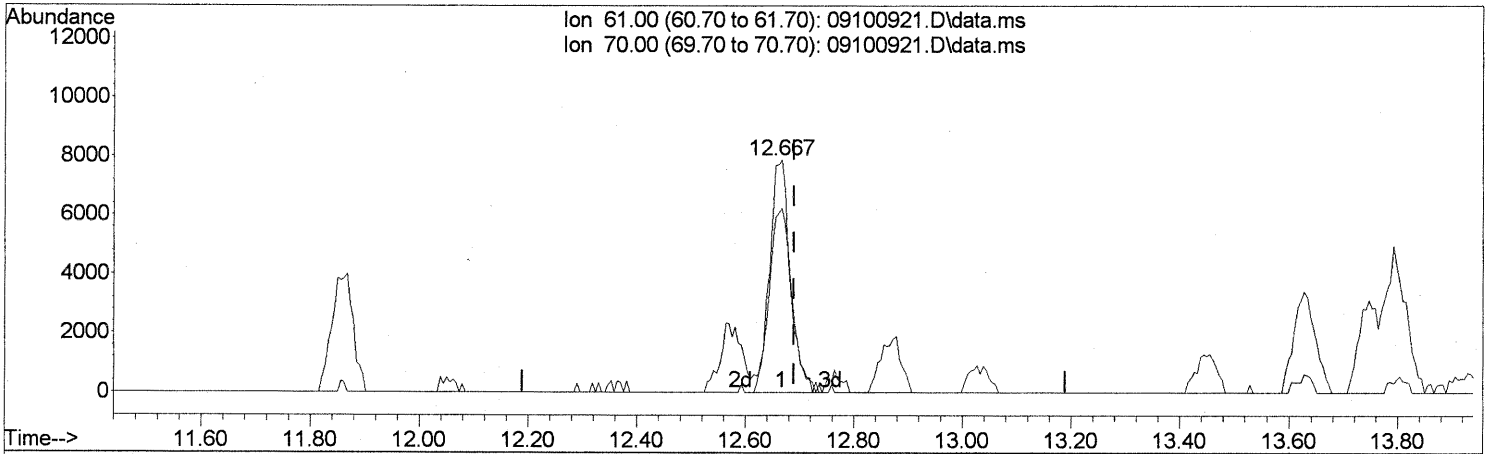
(27) 2-Butanone (MEK) (T)
 11.661min (-0.029) 6.70ng
 response 66023

Ion	Exp%	Act%
72.10	100	100
43.00	424.60	396.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

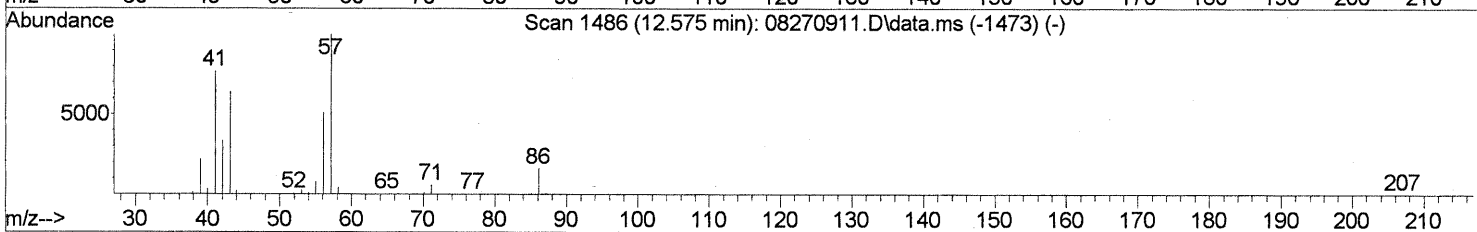
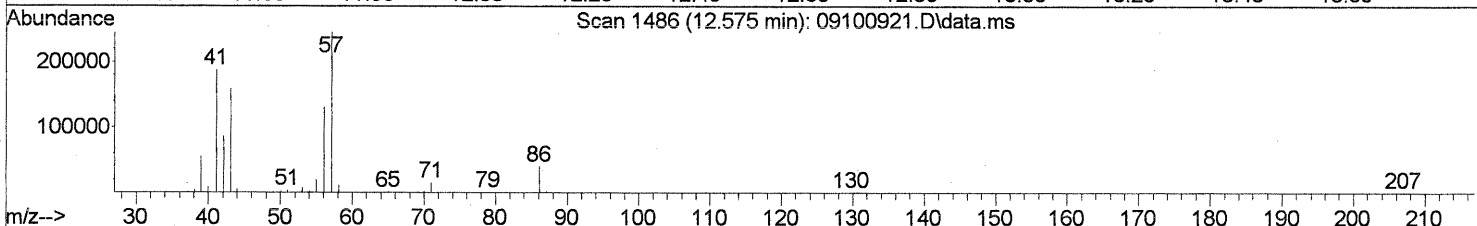
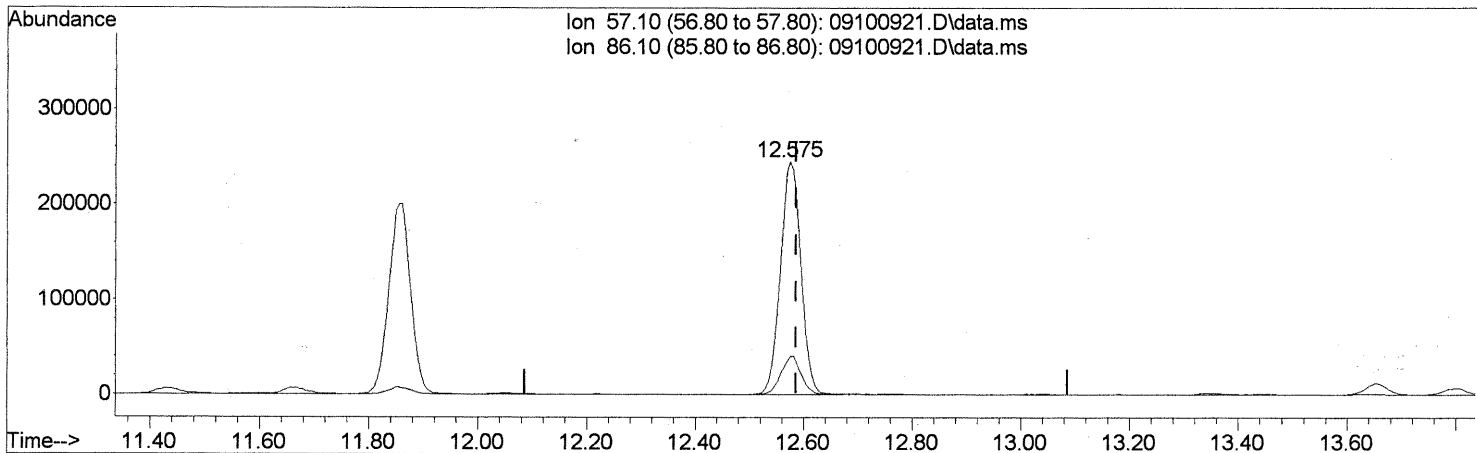
(30) Ethyl Acetate (T)
 12.667min (-0.023) 3.93ng
 response 20811

Ion	Exp%	Act%
61.00	100	100
70.00	78.70	86.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

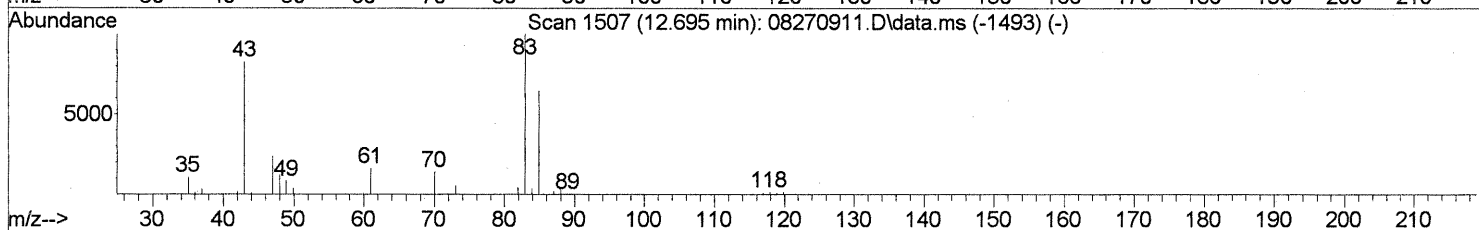
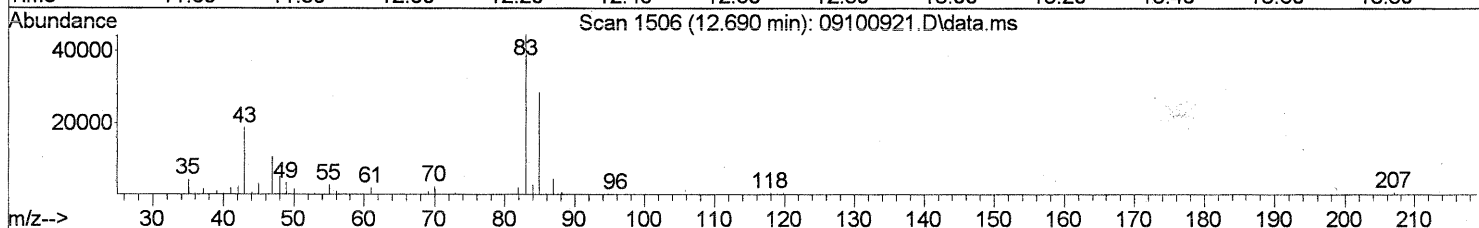
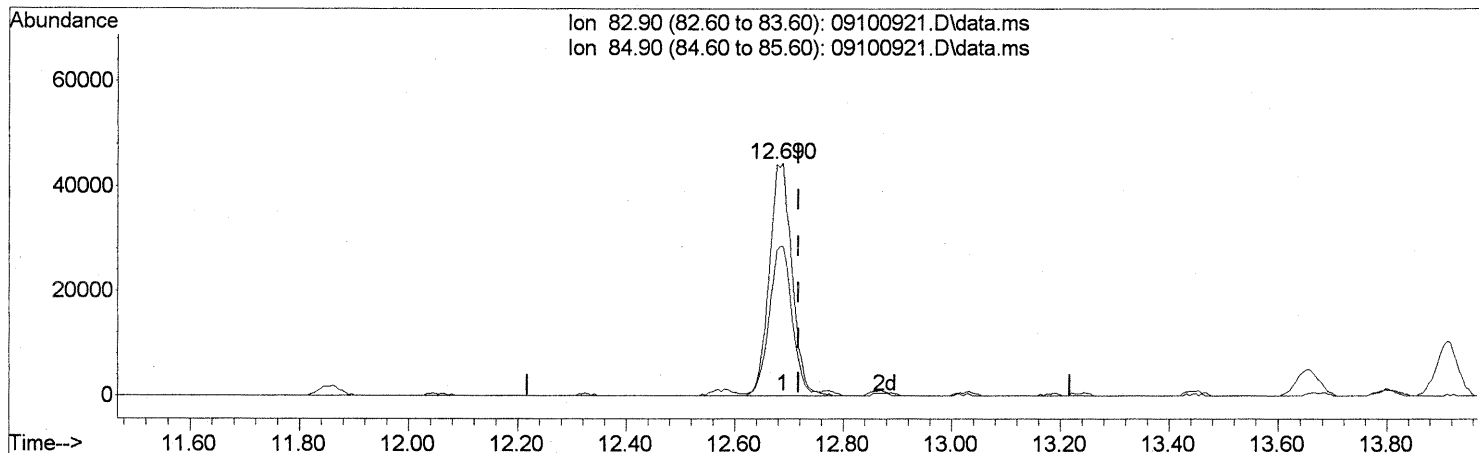
(31) n-Hexane (T)
 12.575min (-0.011) 24.31ng
 response 641519

Ion	Exp%	Act%
57.10	100	100
86.10	15.40	16.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

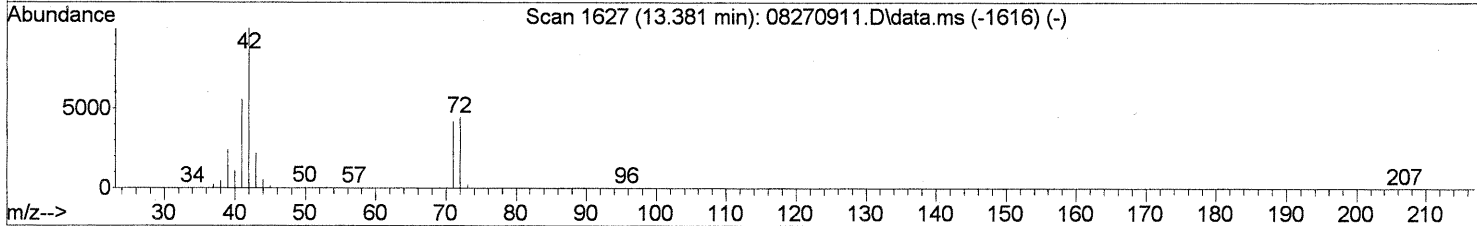
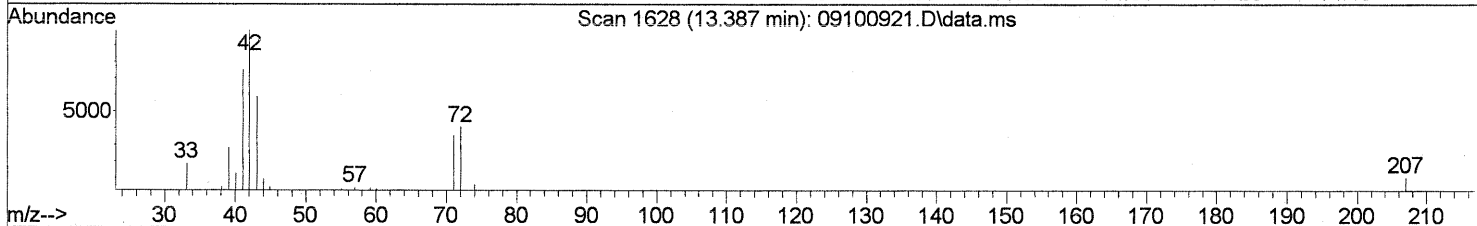
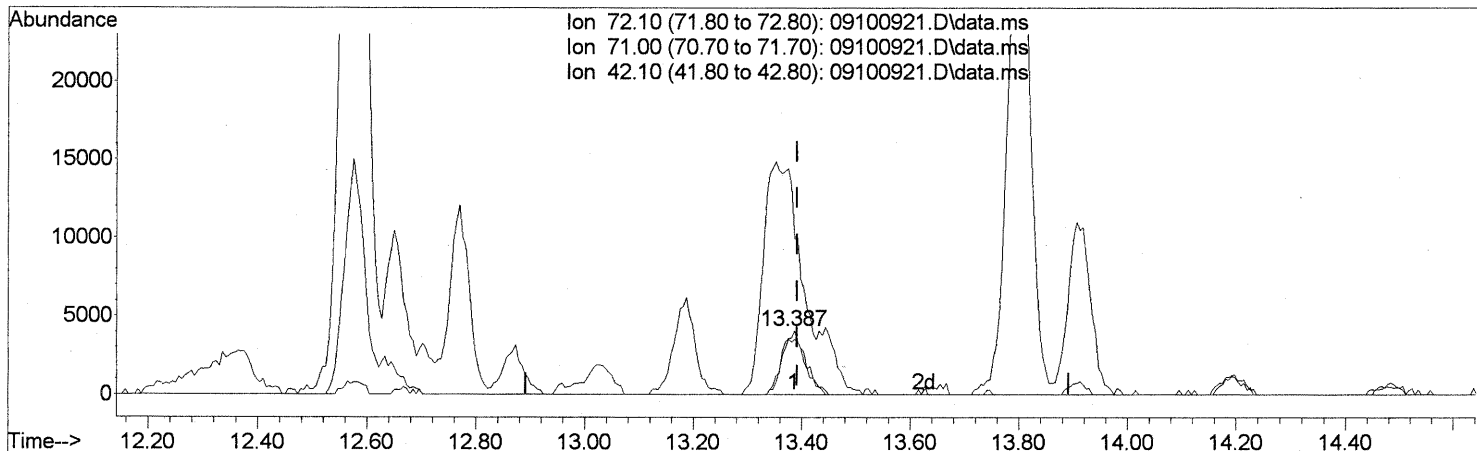
(32) Chloroform (T)
 12.690min (-0.029) 4.96ng
 response 128942

Ion	Exp%	Act%
82.90	100	100
84.90	62.60	65.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.387min (-0.005) 1.14ng

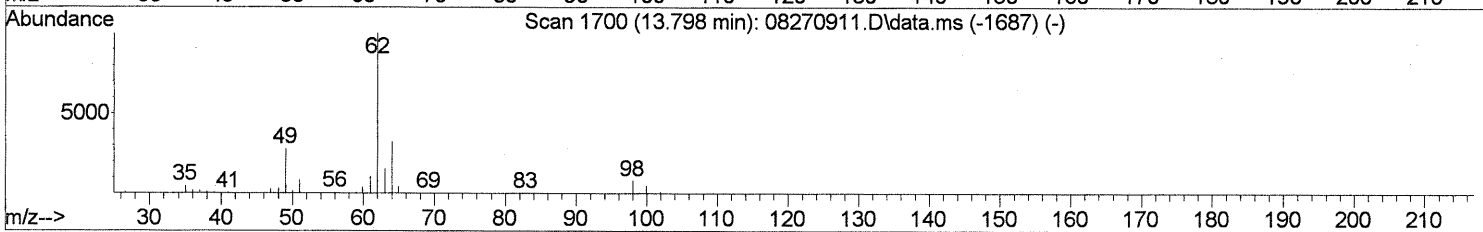
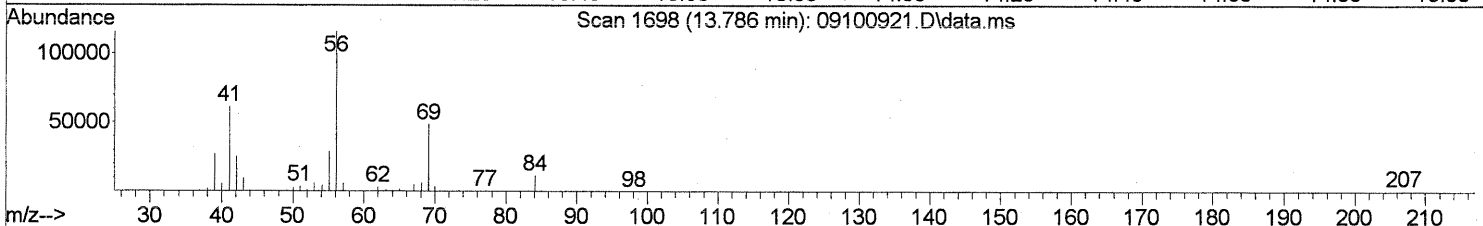
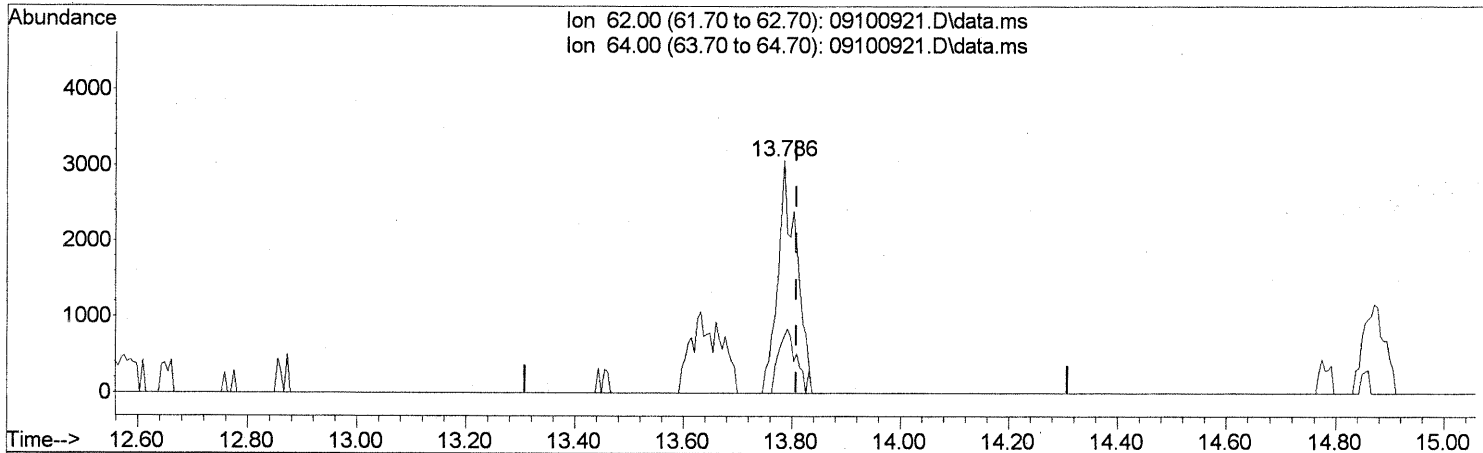
response 12178

Ion	Exp%	Act%
72.10	100	100
71.00	92.50	92.08
42.10	254.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(36) 1,2-Dichloroethane (T)
 13.786min (-0.023) 0.33ng
 response 7296

Ion	Exp%	Act%
62.00	100	100
64.00	33.10	26.59
0.00	0.00	0.00
0.00	0.00	0.00

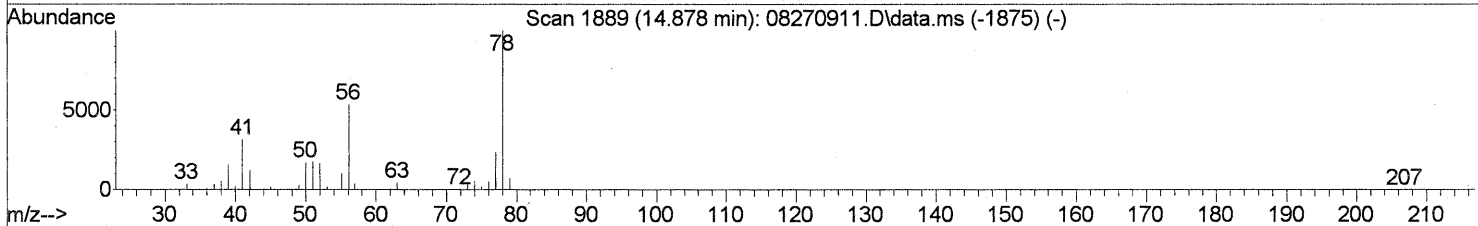
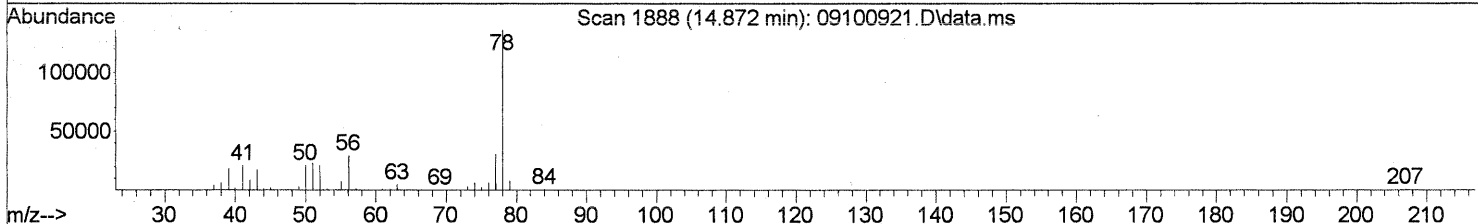
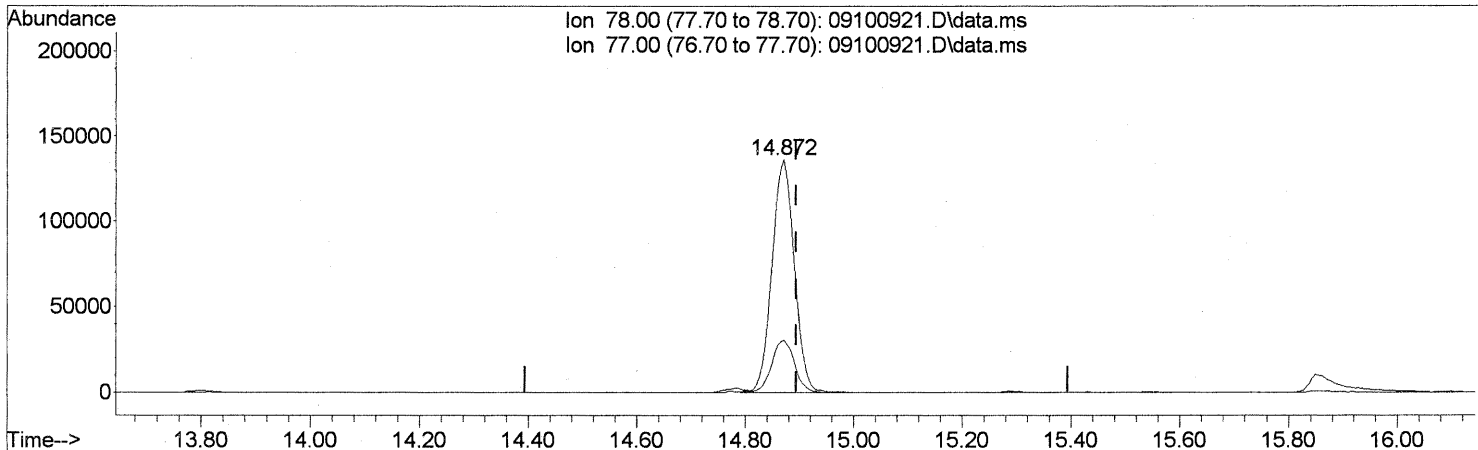
FP
lm 9/2/09

com 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

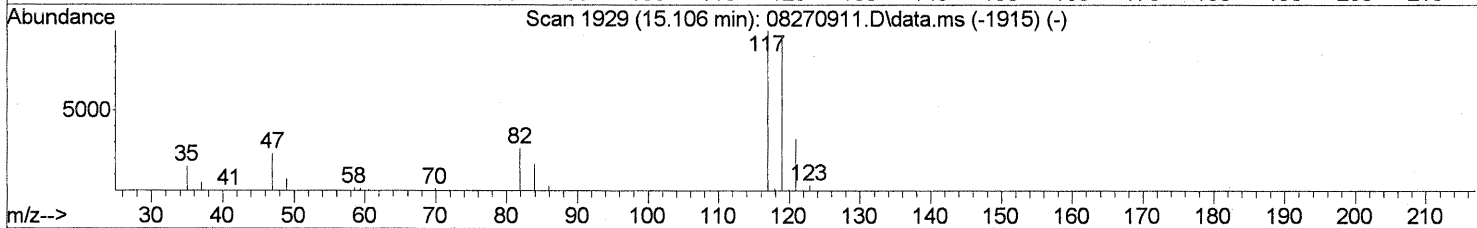
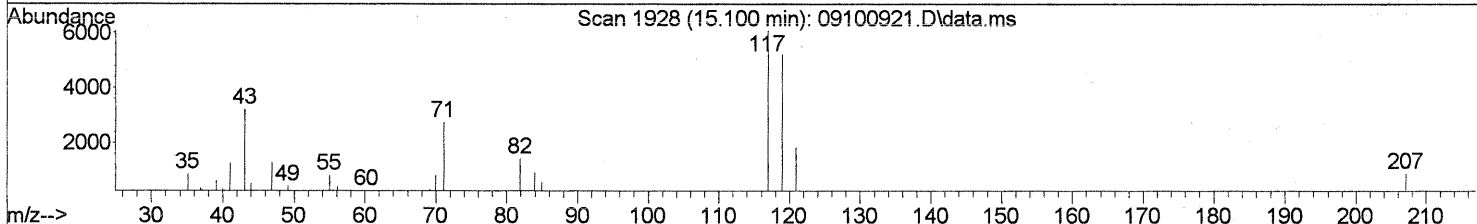
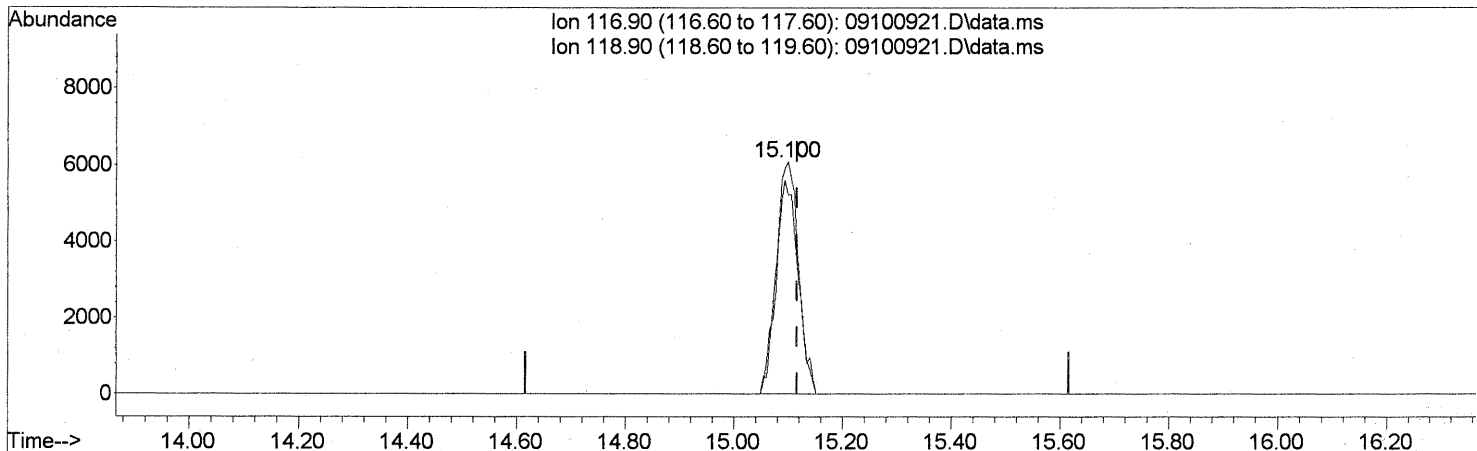
(41) Benzene (T)
 14.872min (-0.023) 6.30ng
 response 388199

Ion	Exp%	Act%
78.00	100	100
77.00	23.20	22.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

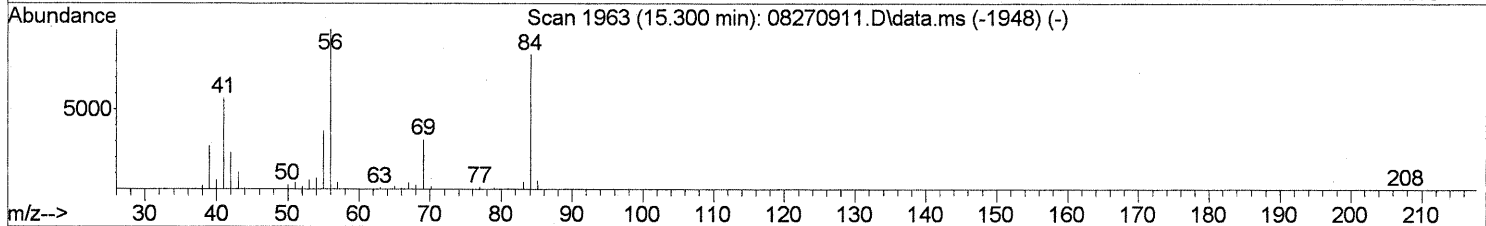
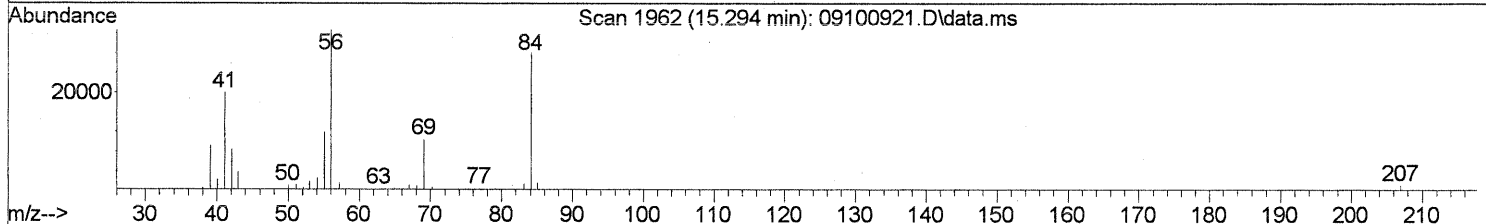
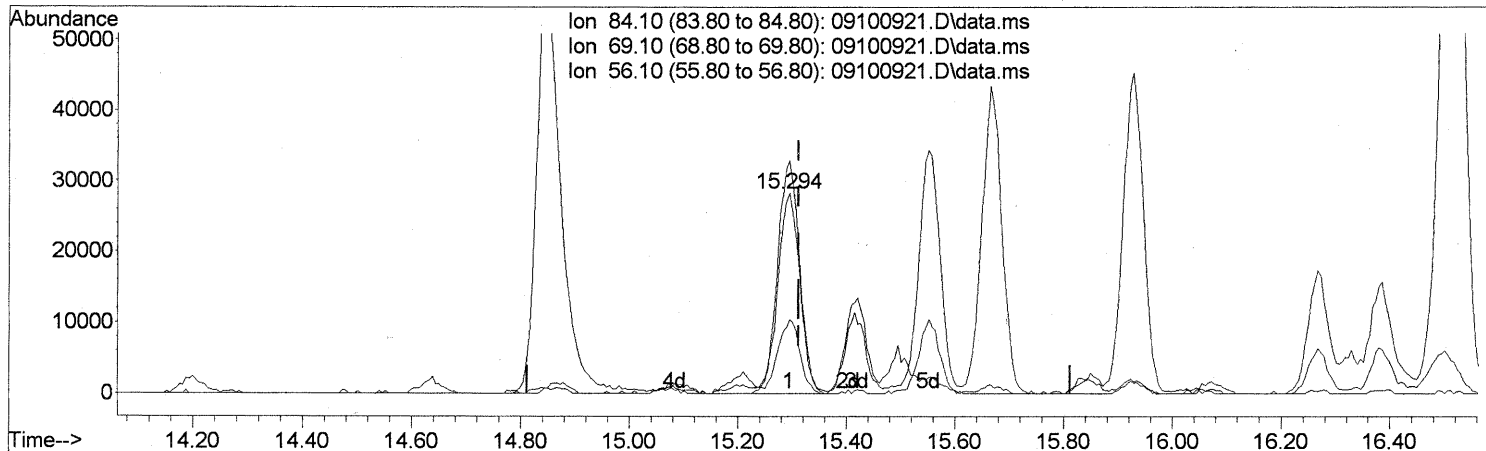
(42) Carbon Tetrachloride (T)
 15.100min (-0.017) 0.83ng
 response 17186

Ion	Exp%	Act%
116.90	100	100
118.90	96.20	93.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

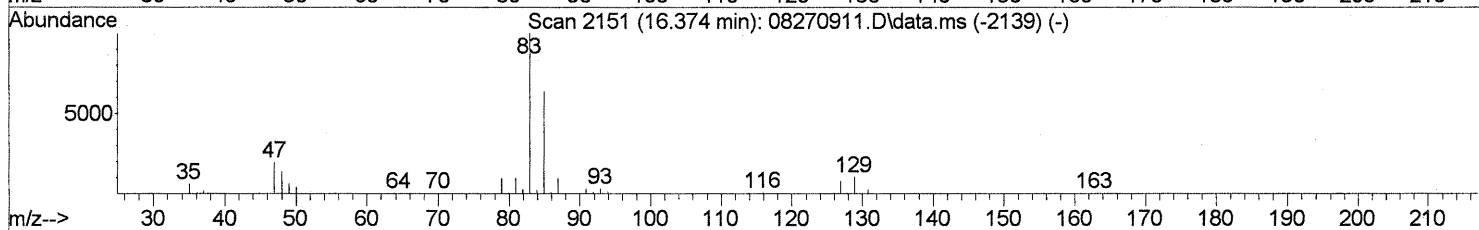
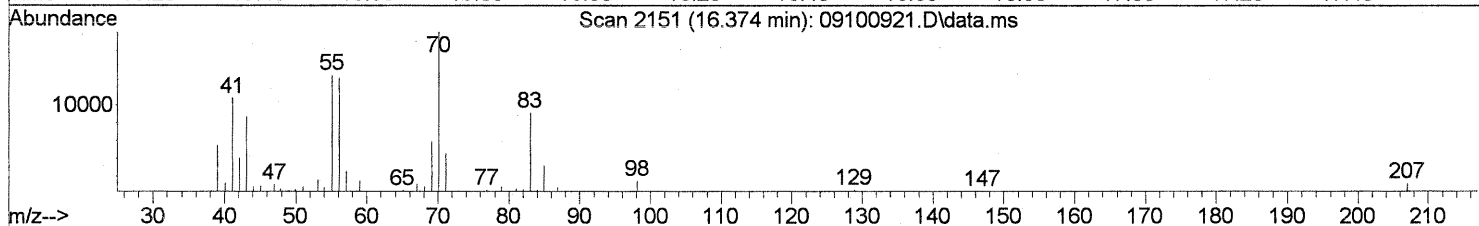
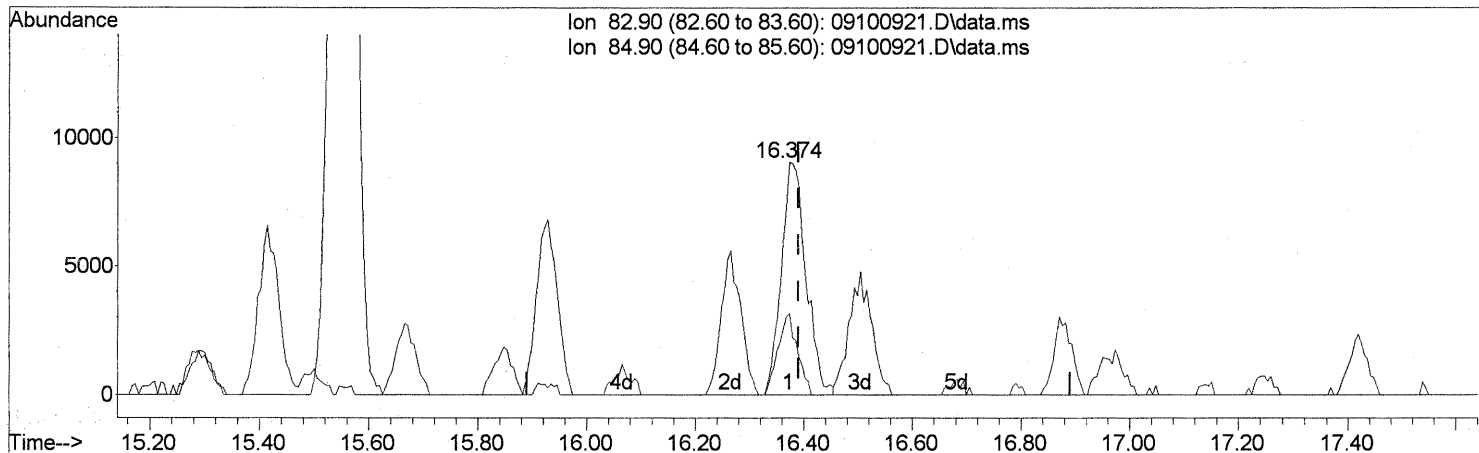
(43) Cyclohexane (T)
 15.294min (-0.017) 3.50ng
 response 79338

Ion	Exp%	Act%
84.10	100	100
69.10	38.90	36.62
56.10	124.50	114.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(46) Bromodichloromethane (T)

16.374min (-0.017) 1.40ng

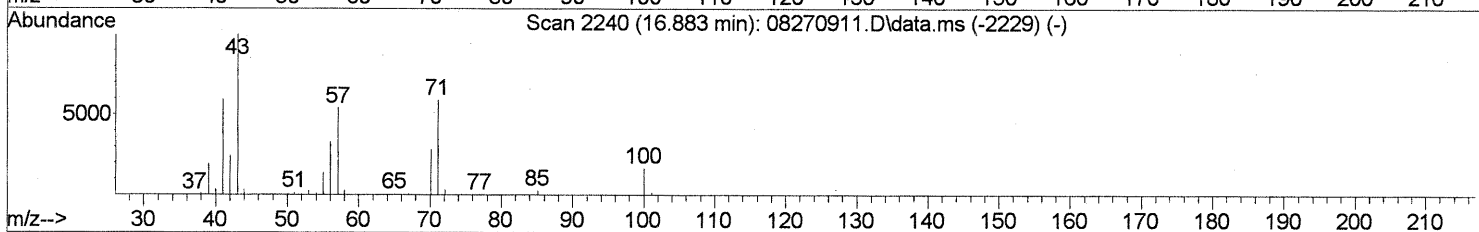
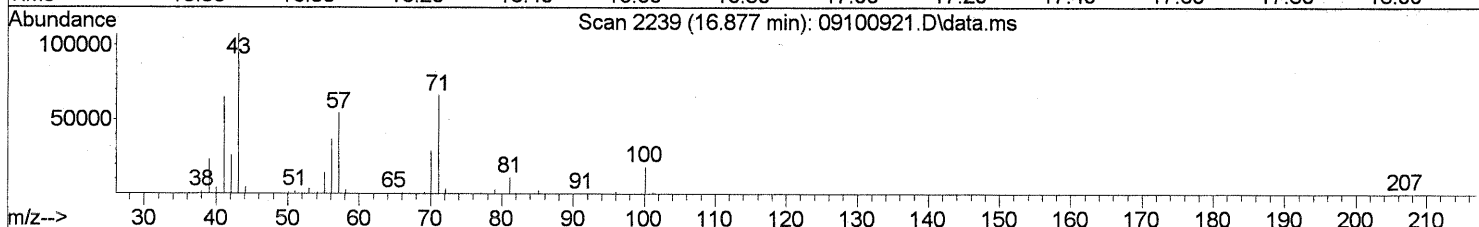
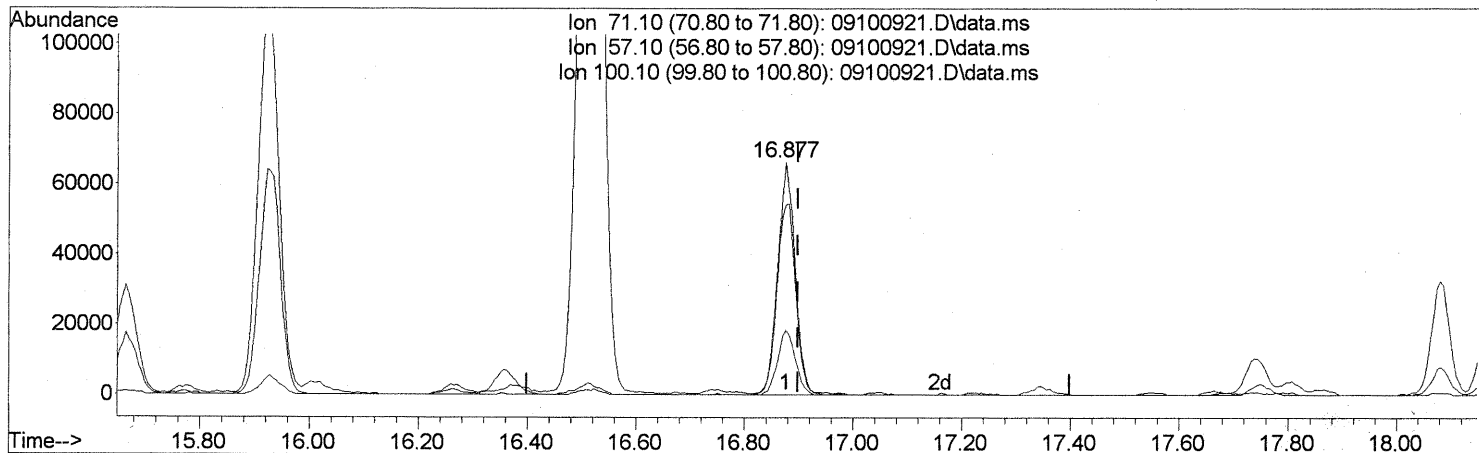
response 28401

Ion	Exp%	Act%
82.90	100	100
84.90	64.50	27.37#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

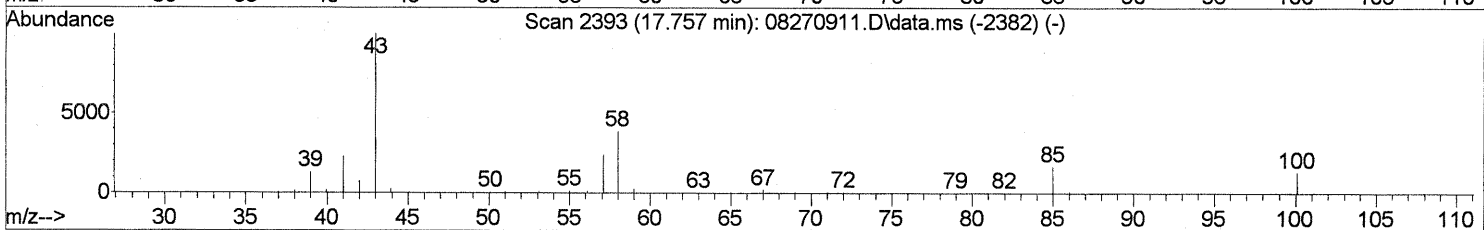
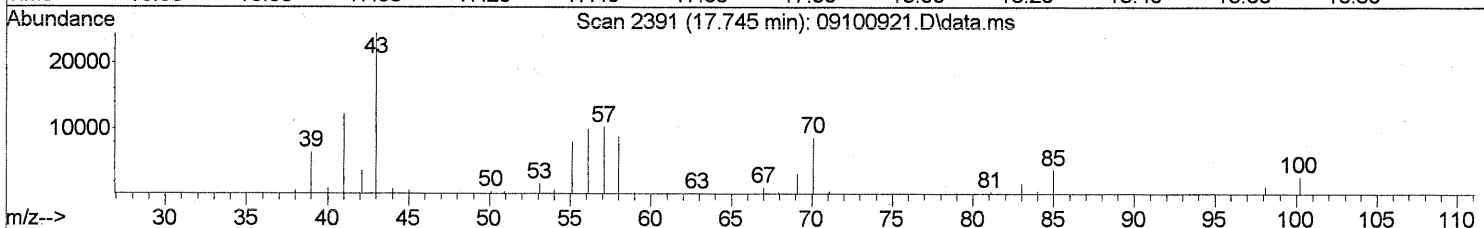
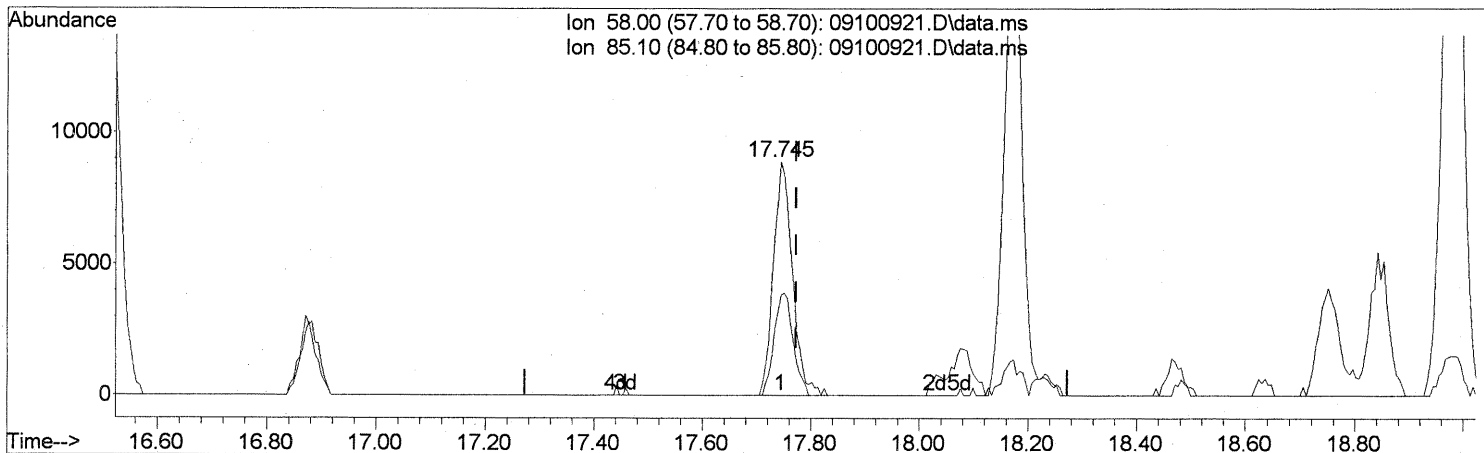
(51) n-Heptane (T)
 16.877min (-0.023) 9.25ng
 response 147594

Ion	Exp%	Act%
71.10	100	100
57.10	89.80	89.41
100.10	22.00	28.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

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

17.745min (-0.029) 1.55ng

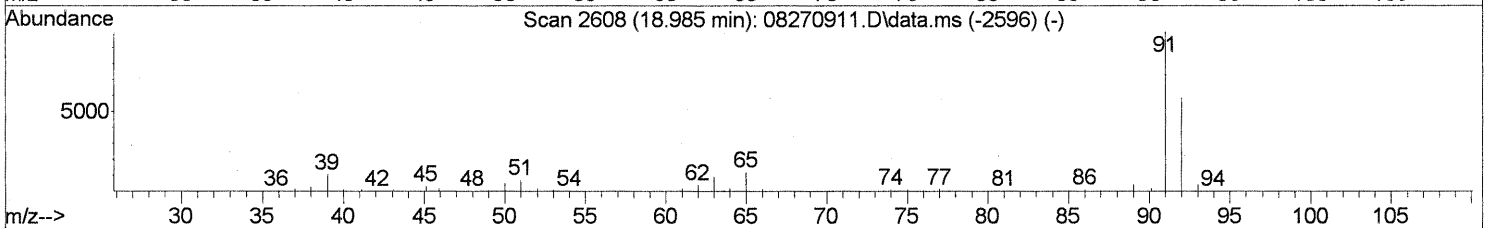
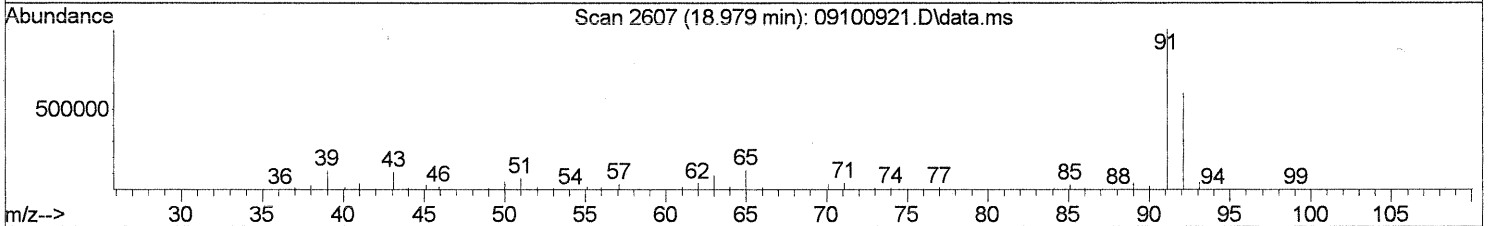
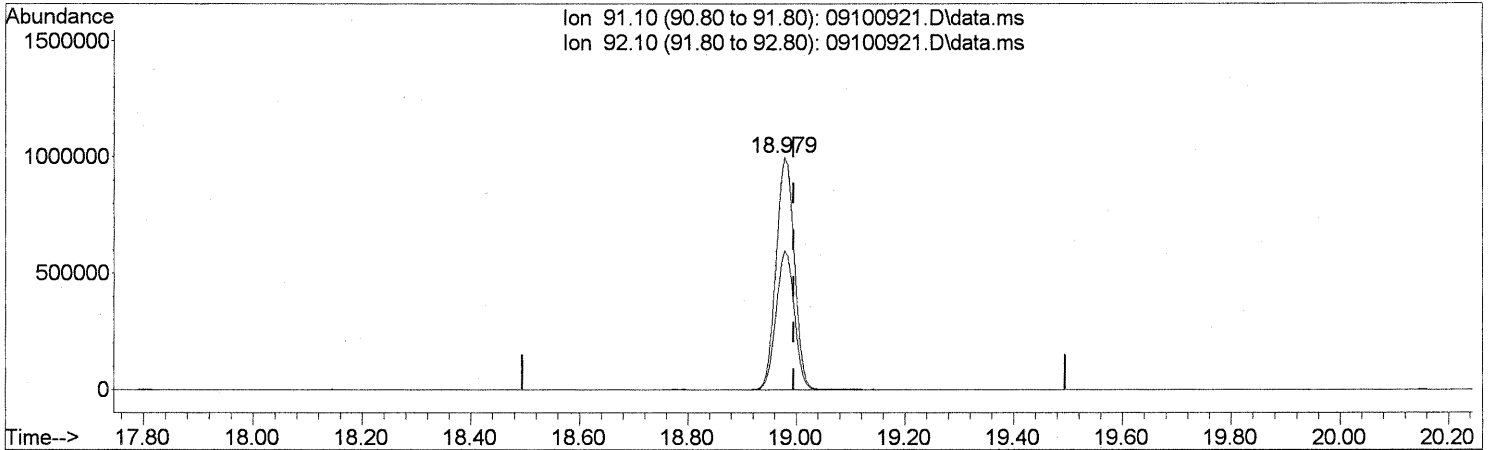
response 21793

Ion	Exp%	Act%
58.00	100	100
85.10	42.40	43.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

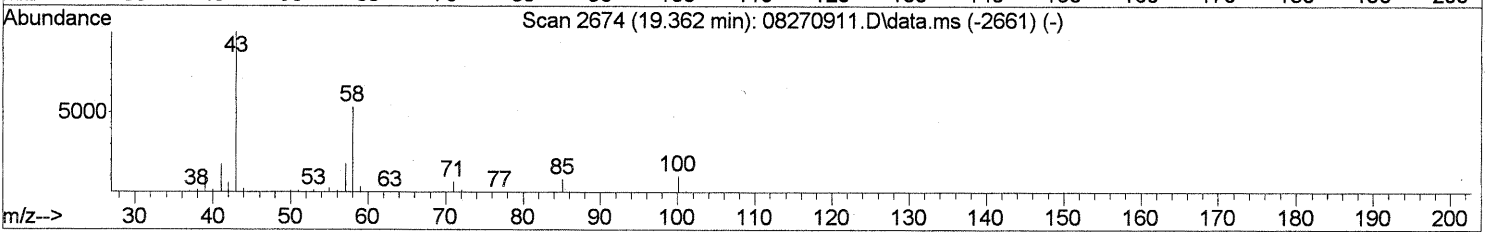
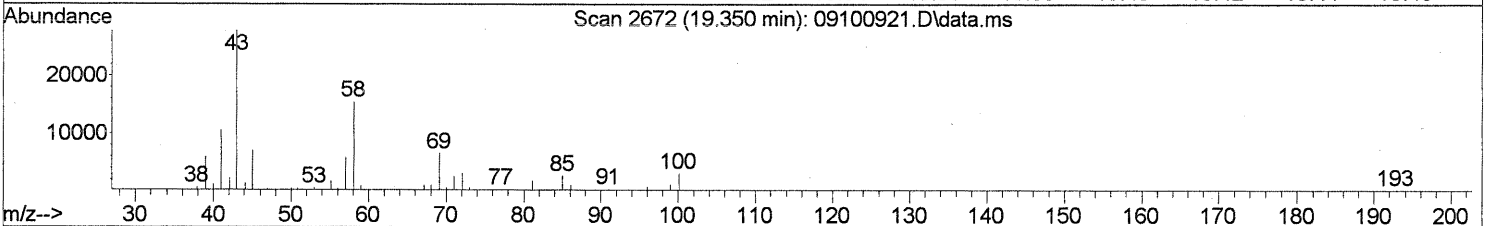
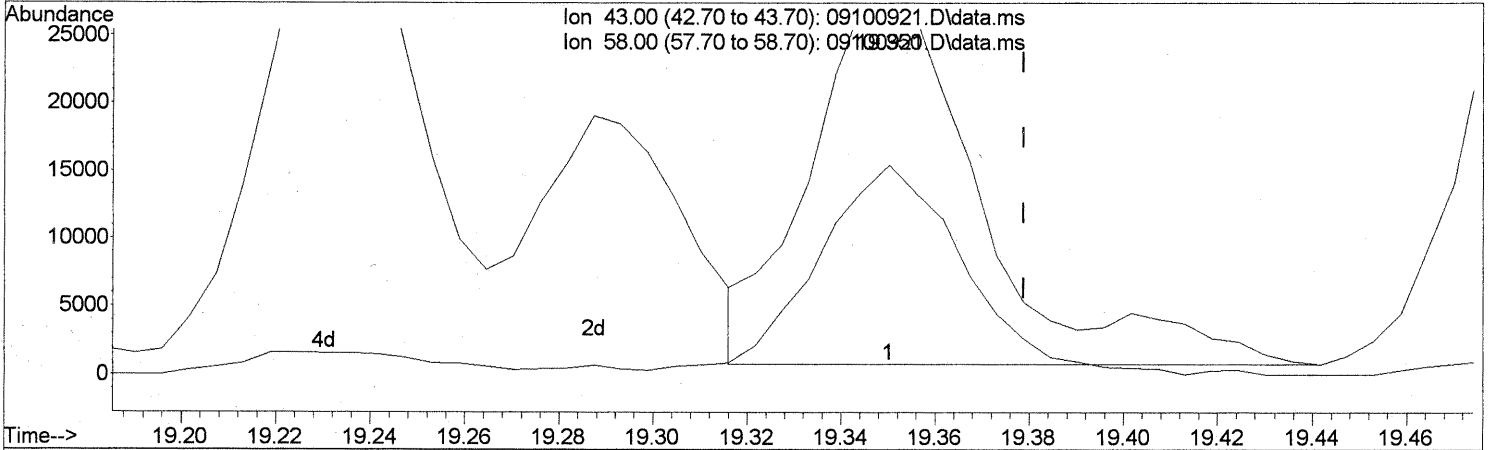
(58) Toluene (T)
 18.979min (-0.017) 36.11ng
 response 2329846

Ion	Exp%	Act%
91.10	100	100
92.10	58.80	59.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(59) 2-Hexanone (T)
 19.350min (-0.029) 1.74ng
 response 68479

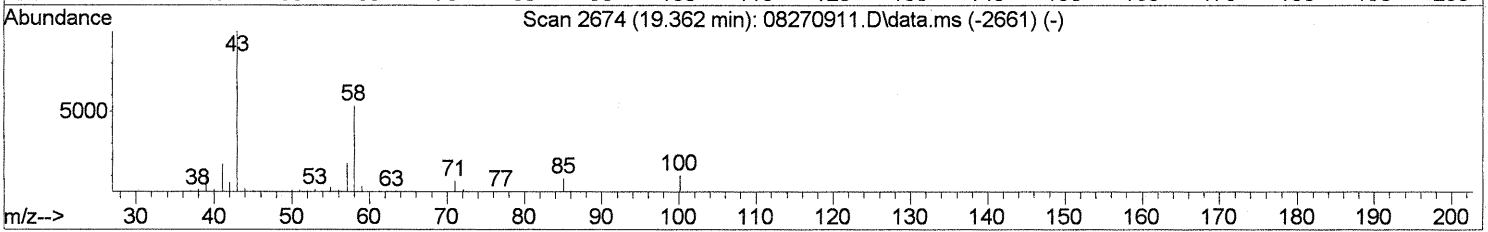
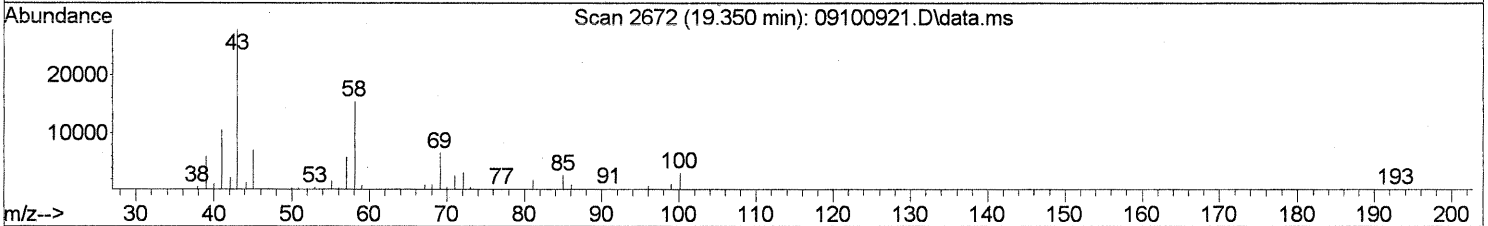
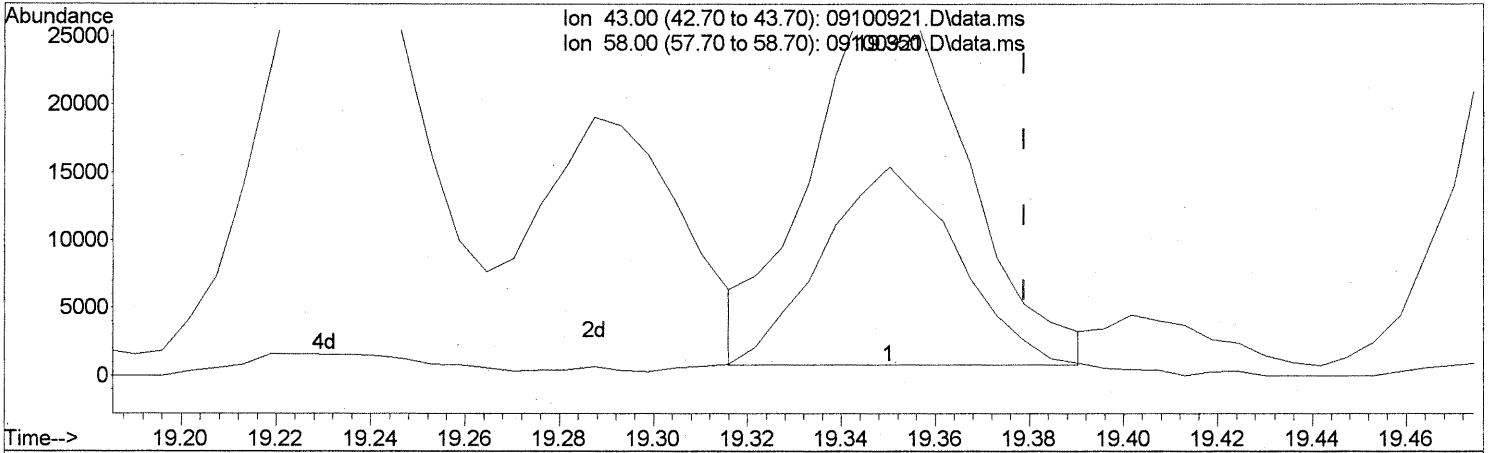
Ion	Exp%	Act%
43.00	100	100
58.00	51.70	49.29
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(59) 2-Hexanone (T)
 19.350min (-0.029) 1.58ng m
 response 62437

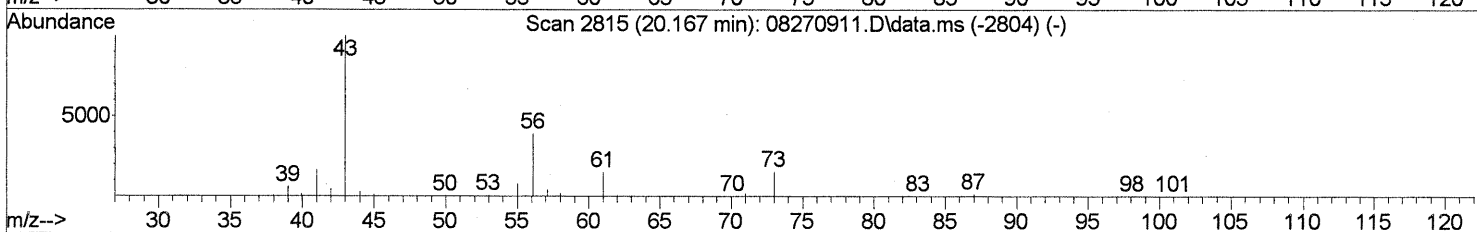
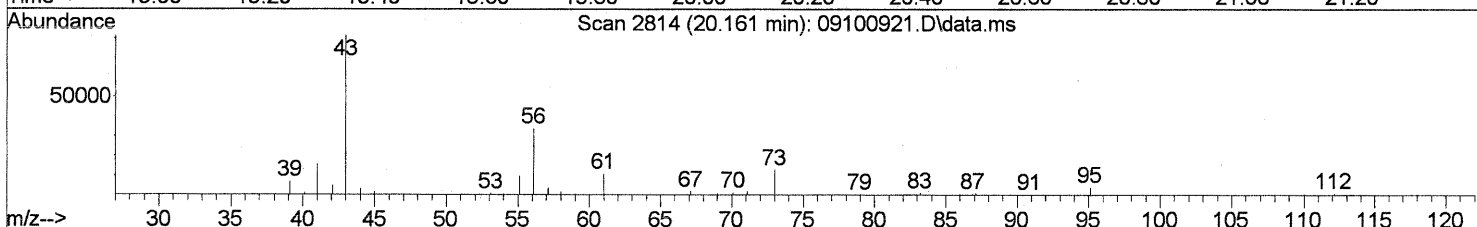
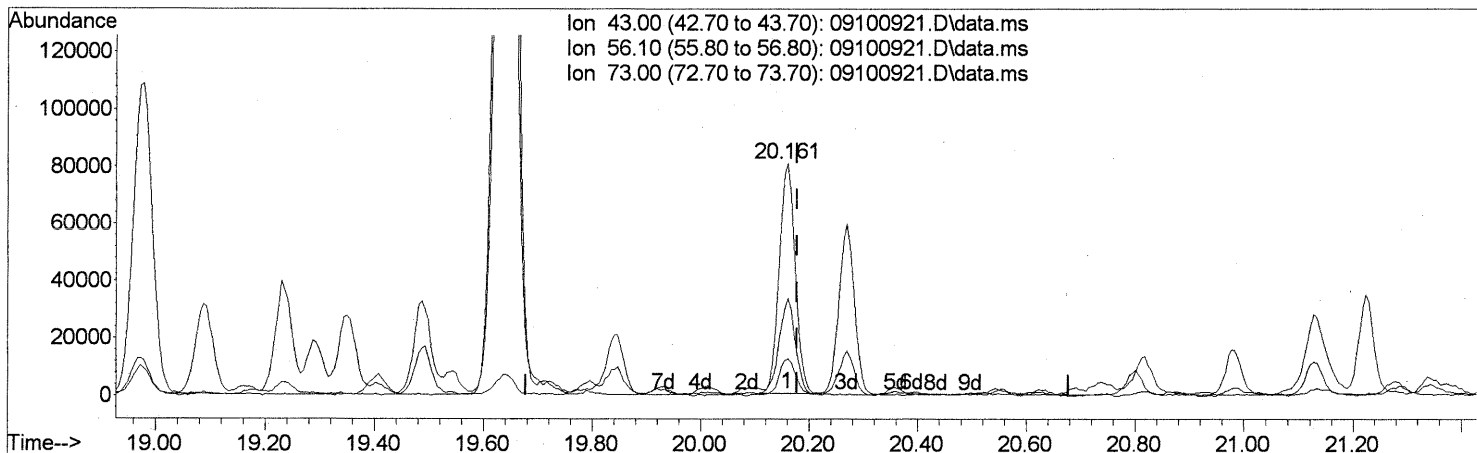
Ion	Exp%	Act%
43.00	100	100
58.00	51.70	54.06
0.00	0.00	0.00
0.00	0.00	0.00

*PT → IC
 um 9/20/09
 Com 9/21/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

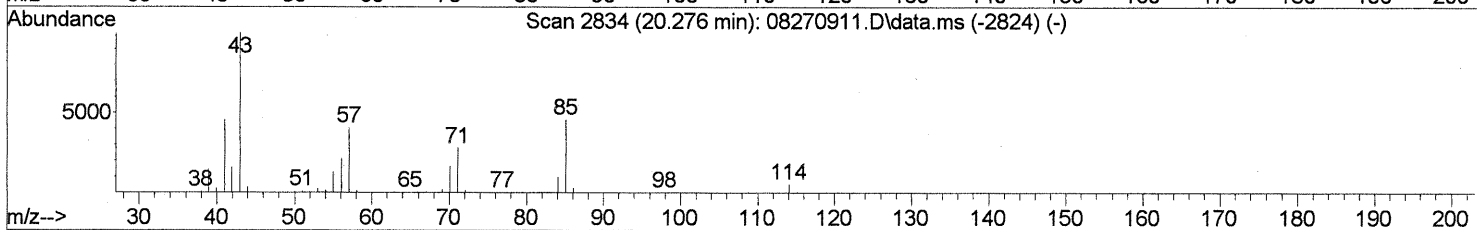
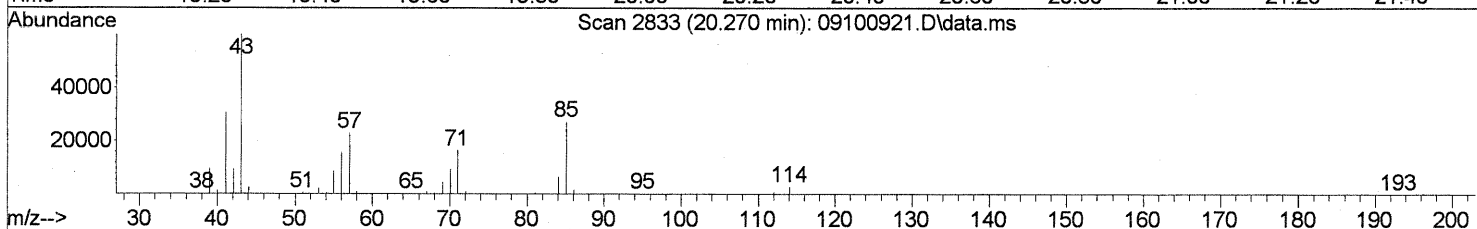
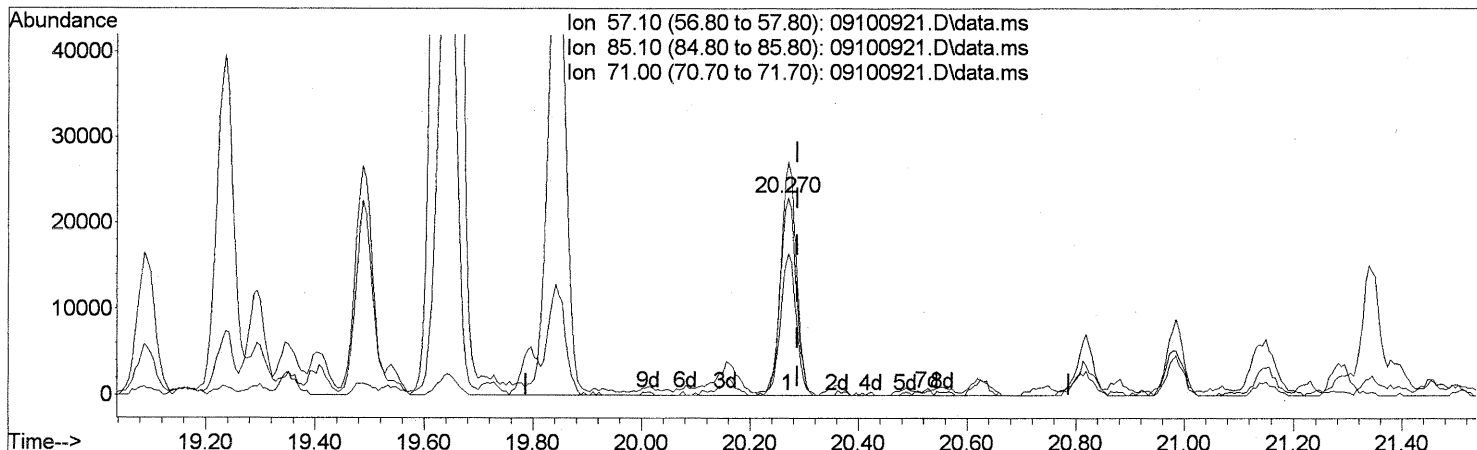
(62) n-Butyl Acetate (T)
 20.161min (-0.017) 3.63ng
 response 164421

Ion	Exp%	Act%
43.00	100	100
56.10	39.50	42.35
73.00	14.30	17.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

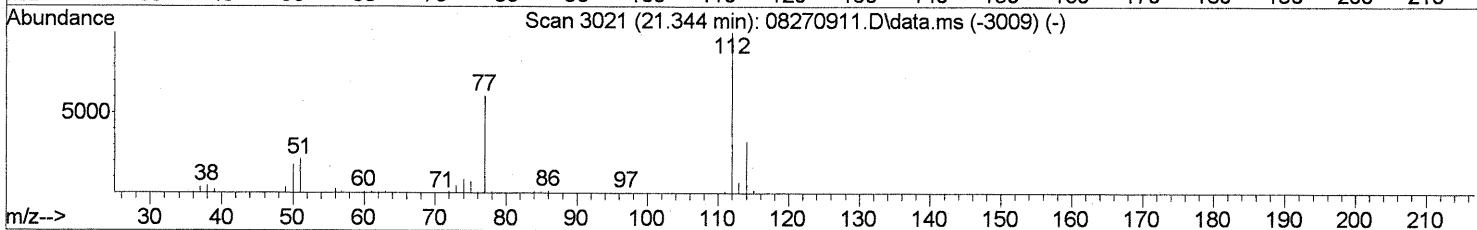
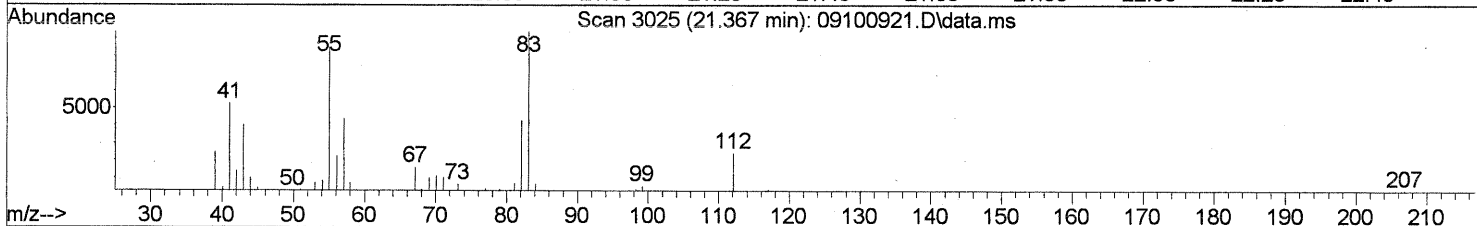
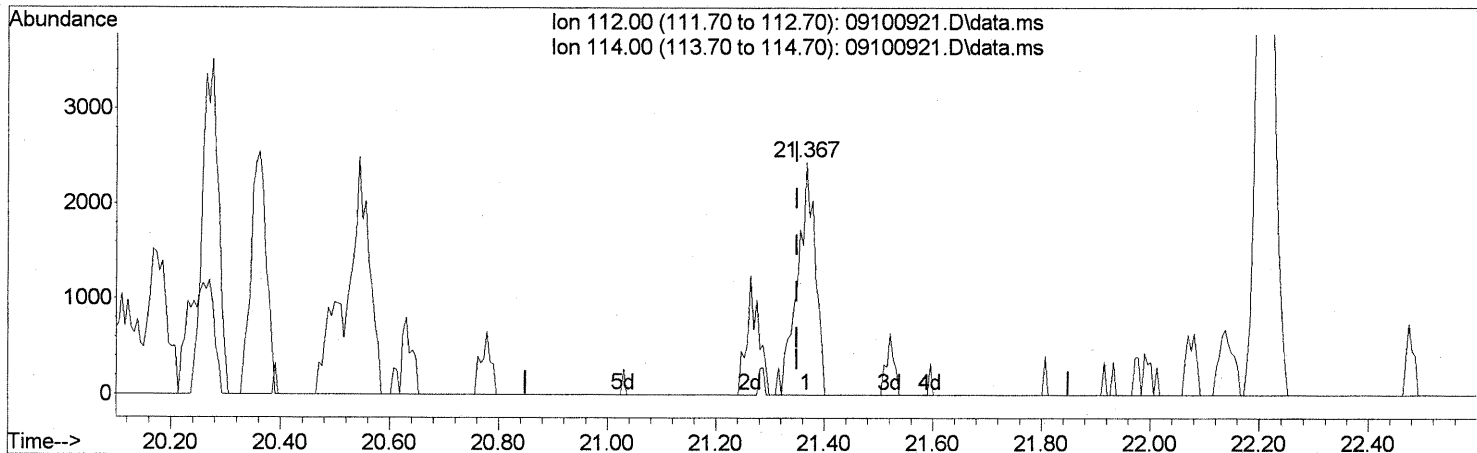
(63) n-Octane (T)
 20.270min (-0.017) 3.23ng
 response 48000

Ion	Exp%	Act%
57.10	100	100
85.10	113.70	112.58
71.00	69.10	69.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(65) Chlorobenzene (T)
 21.367min (+0.017) 0.14ng
 response 5602

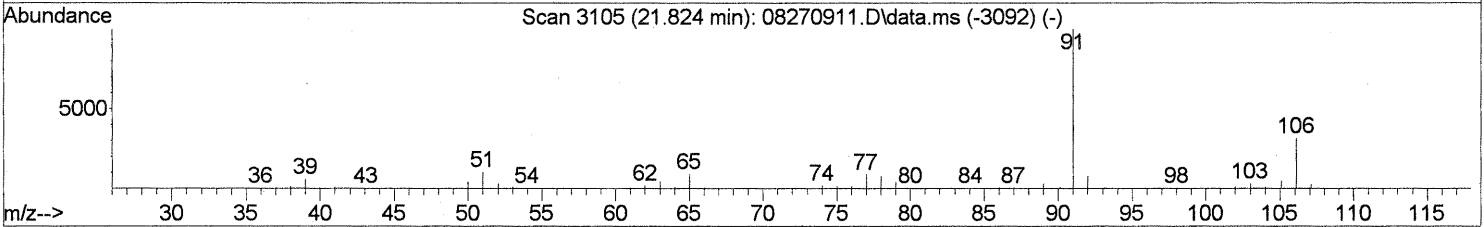
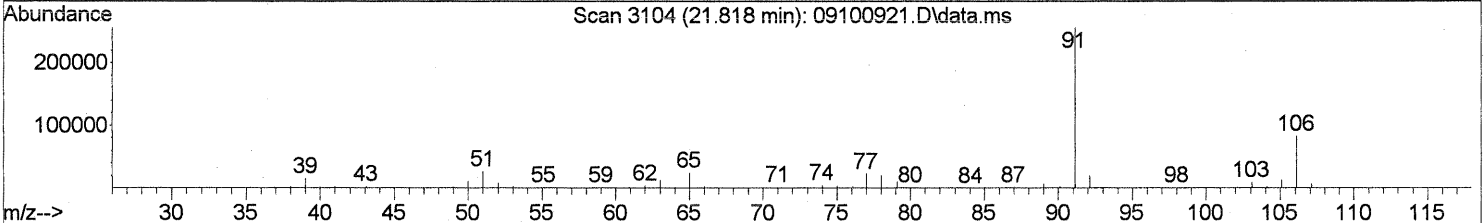
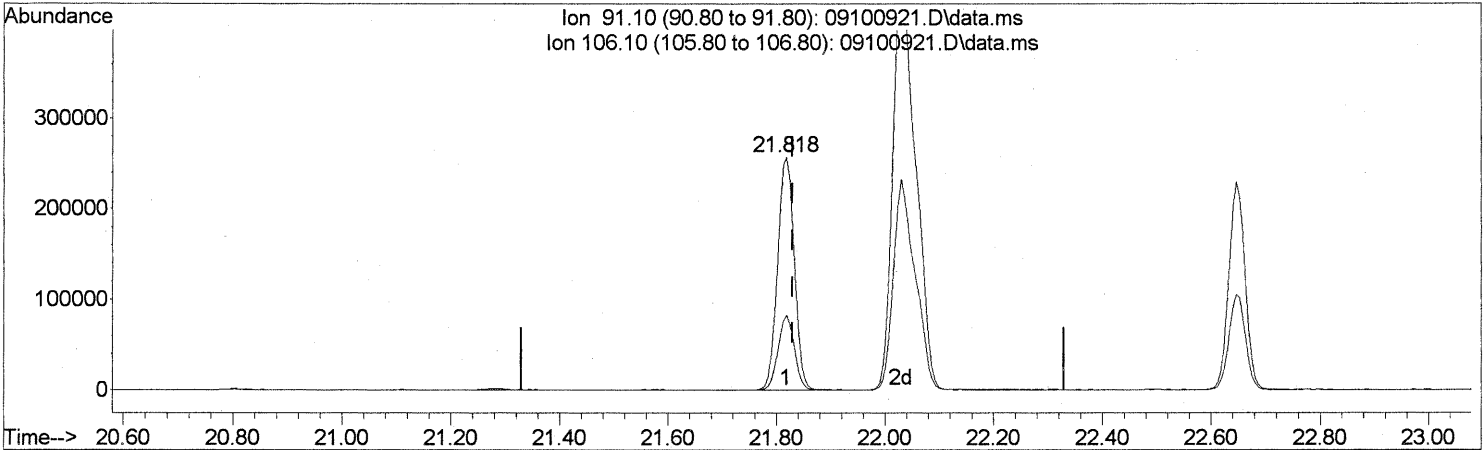
Ion	Exp%	Act%
112.00	100	100
114.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
lm 9/20/09
em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

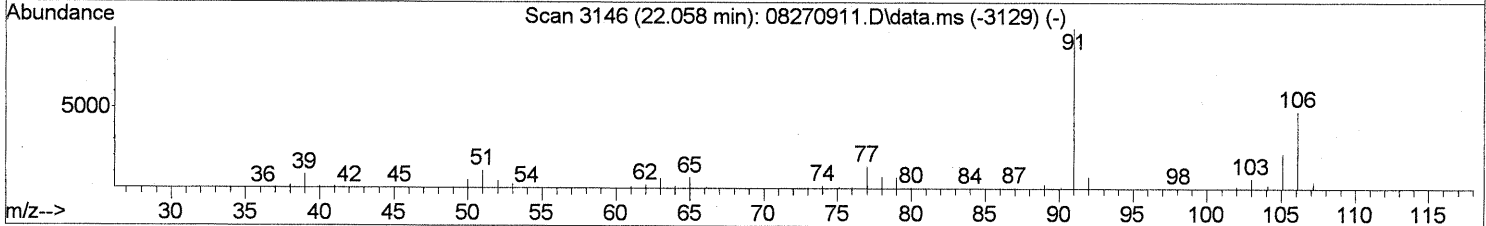
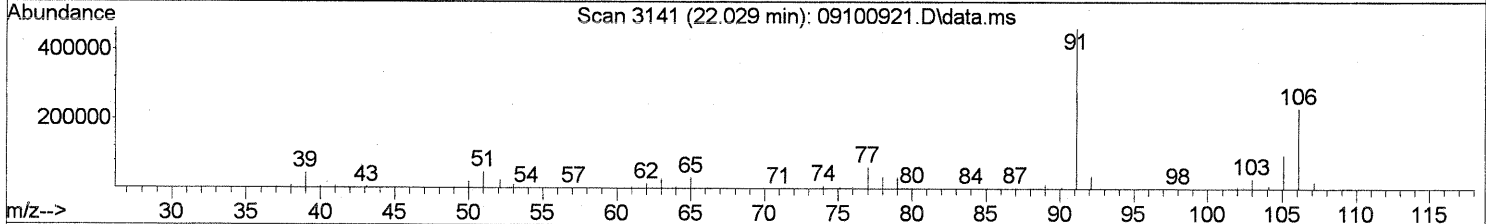
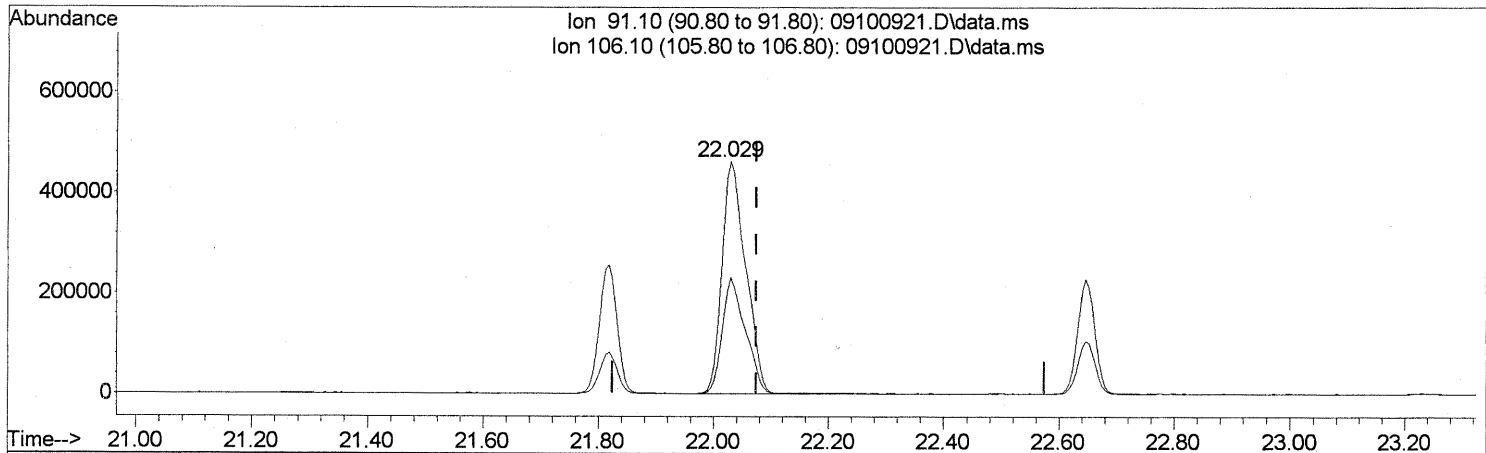
(66) Ethylbenzene (T)
 21.818min (-0.011) 7.44ng
 response 548970

Ion	Exp%	Act%
91.10	100	100
106.10	31.00	31.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

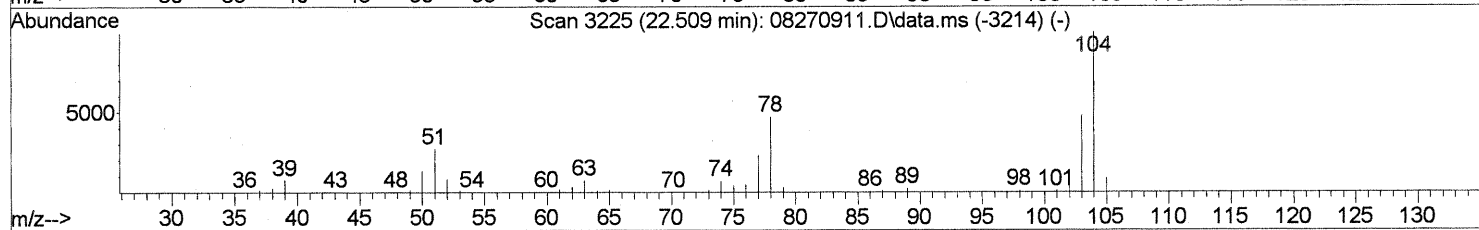
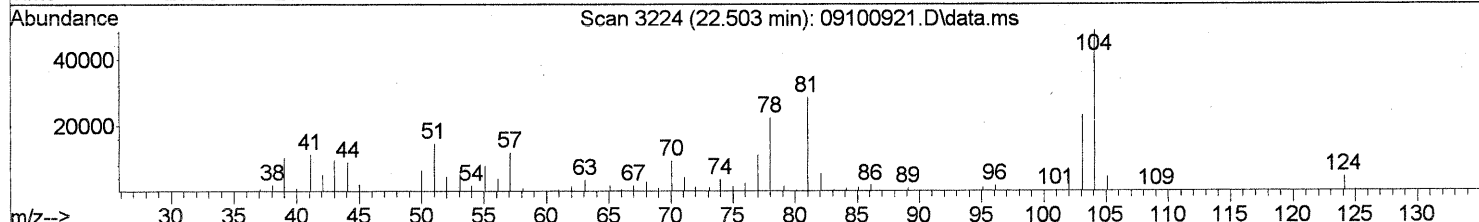
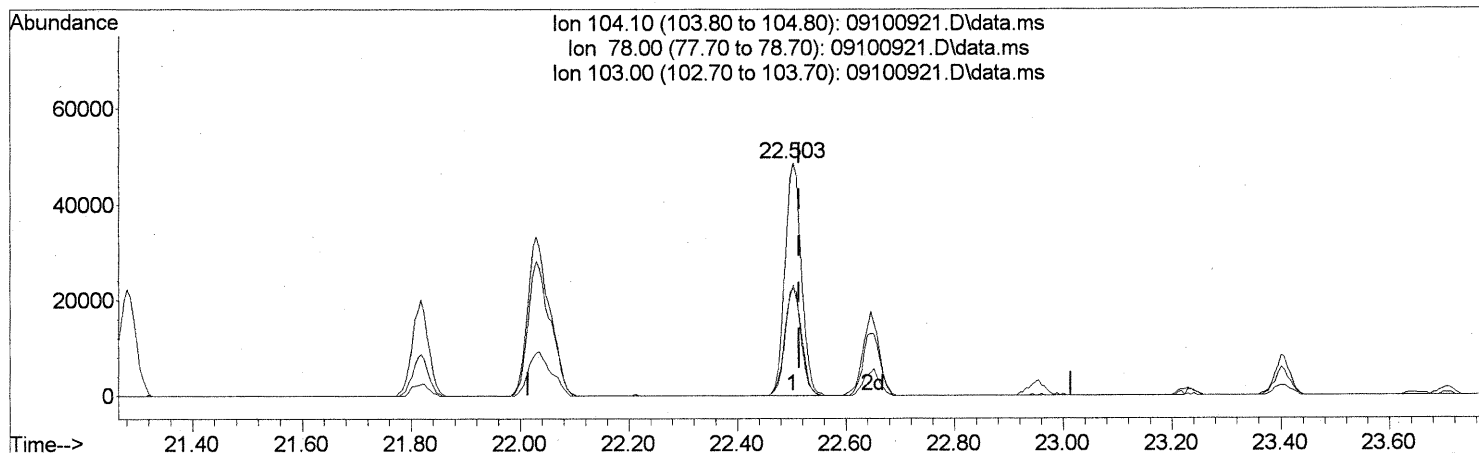
(67) m- & p-Xylenes (T)
 22.029min (-0.046) 22.58ng
 response 1326564

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	48.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

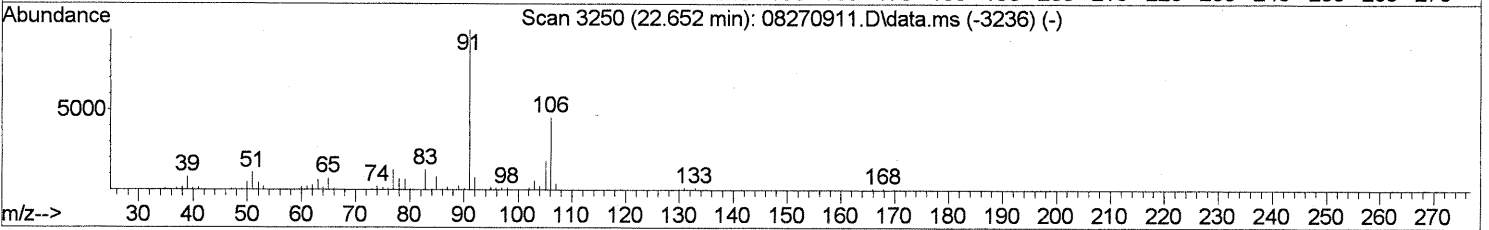
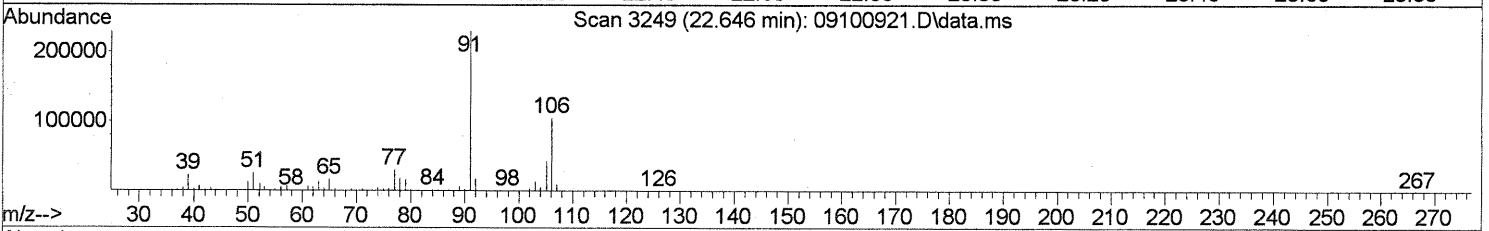
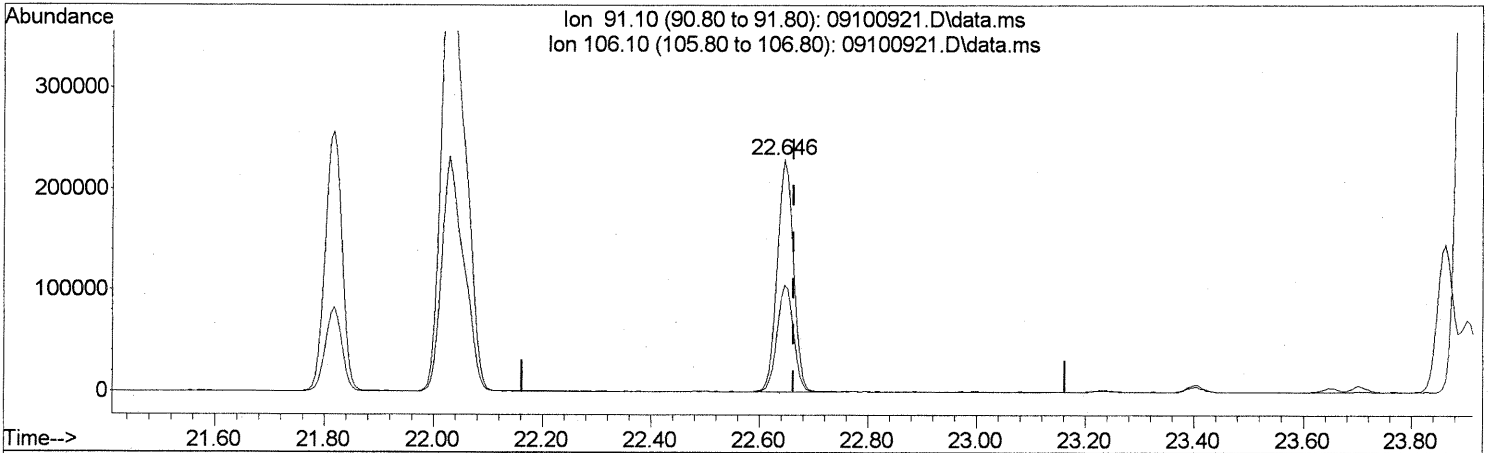
(69) Styrene (T)
 22.503min (-0.011) 2.36ng
 response 101974

Ion	Exp%	Act%
104.10	100	100
78.00	47.20	45.94
103.00	47.00	47.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

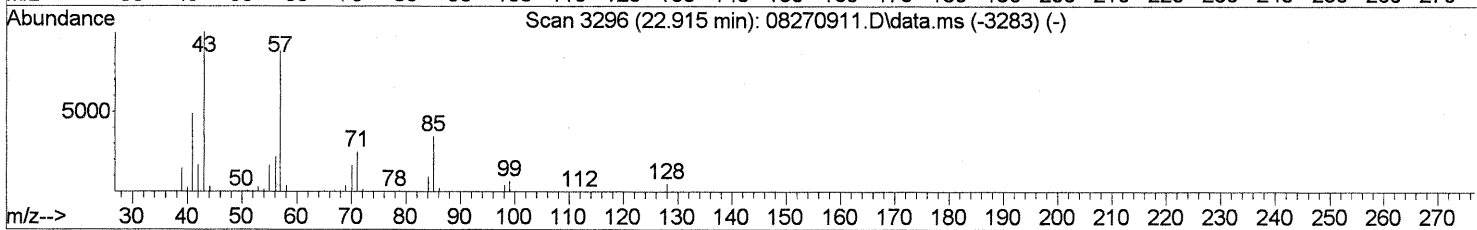
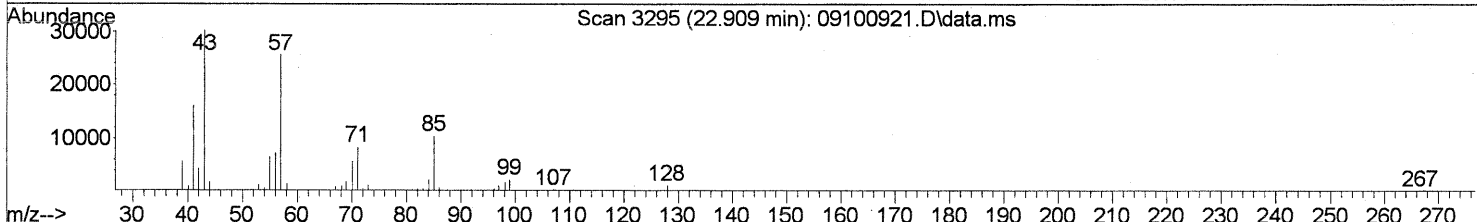
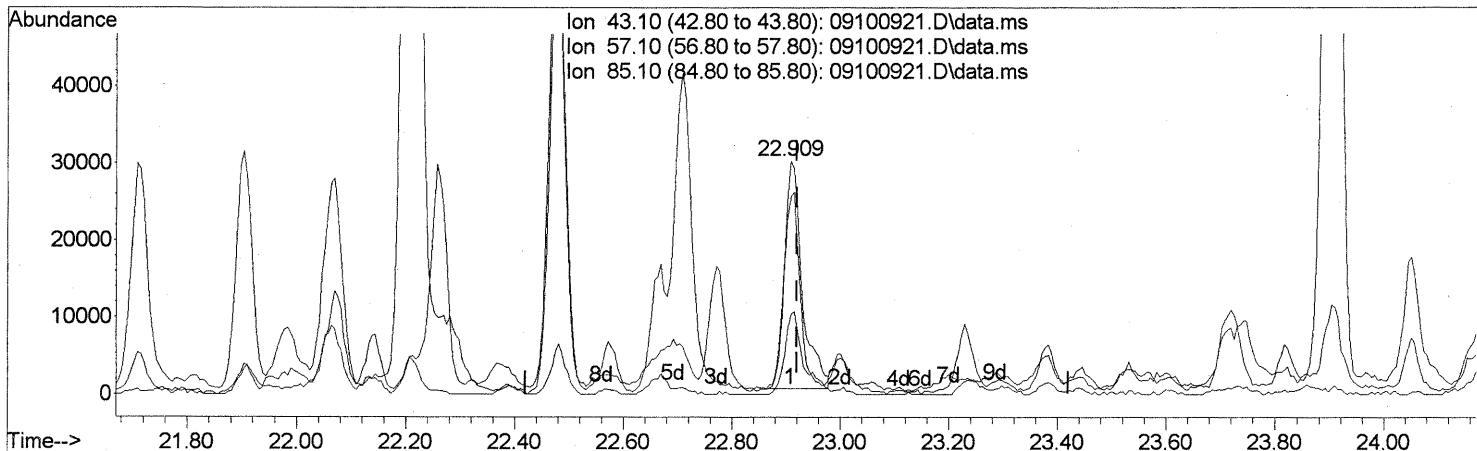
(70) o-Xylene (T)
 22.646min (-0.017) 8.06ng
 response 475778

Ion	Exp%	Act%
91.10	100	100
106.10	44.90	46.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

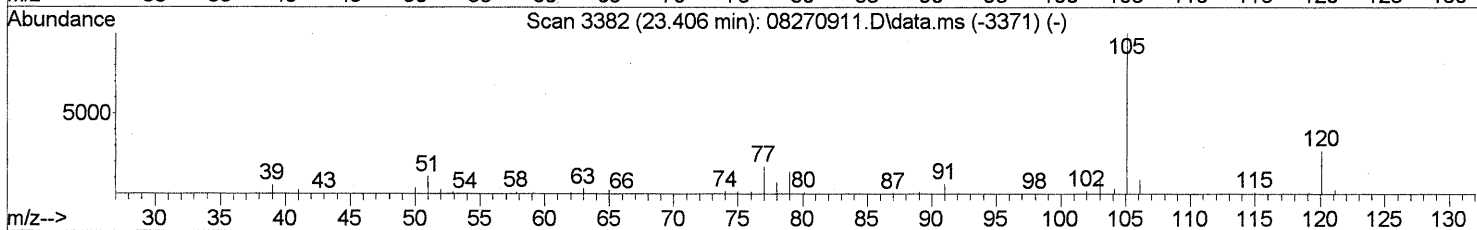
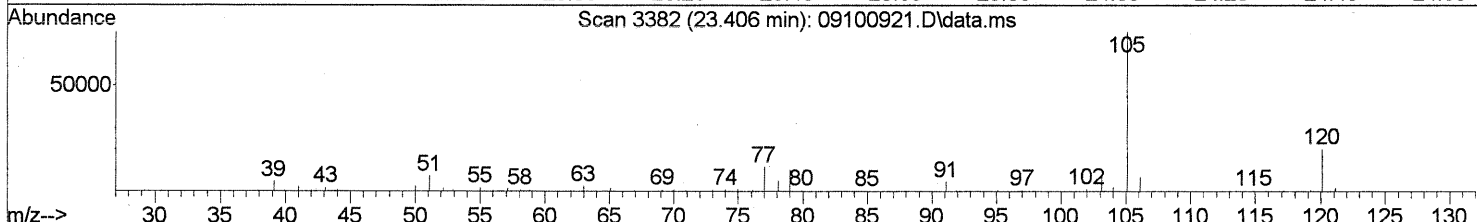
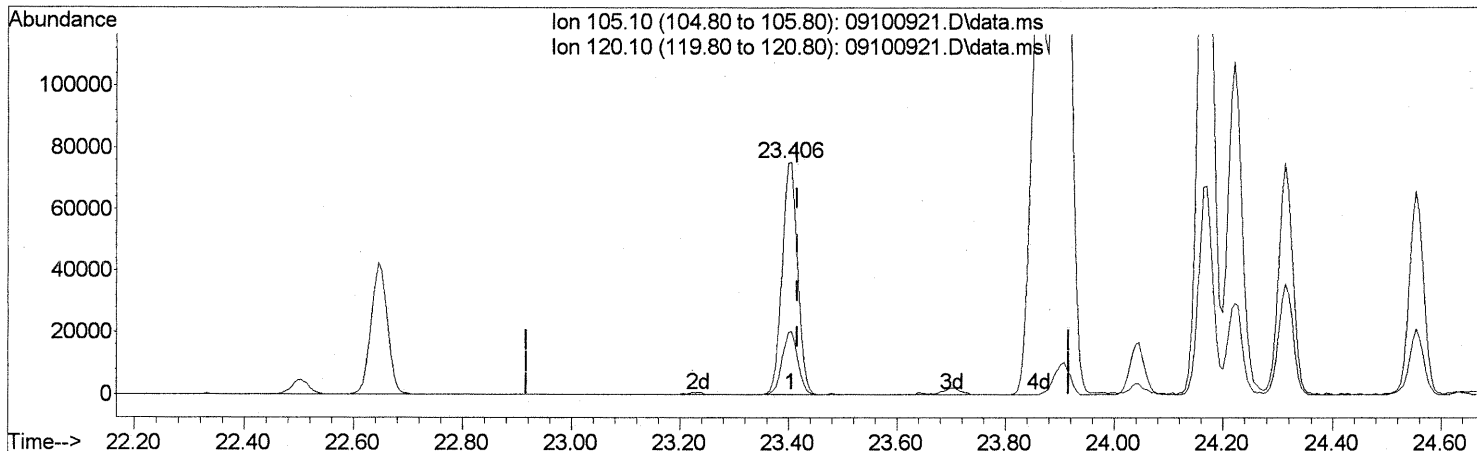
(71) n-Nonane (T)
 22.909min (-0.011) 1.93ng
 response 68384

Ion	Exp%	Act%
43.10	100	100
57.10	85.90	78.54
85.10	32.20	37.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

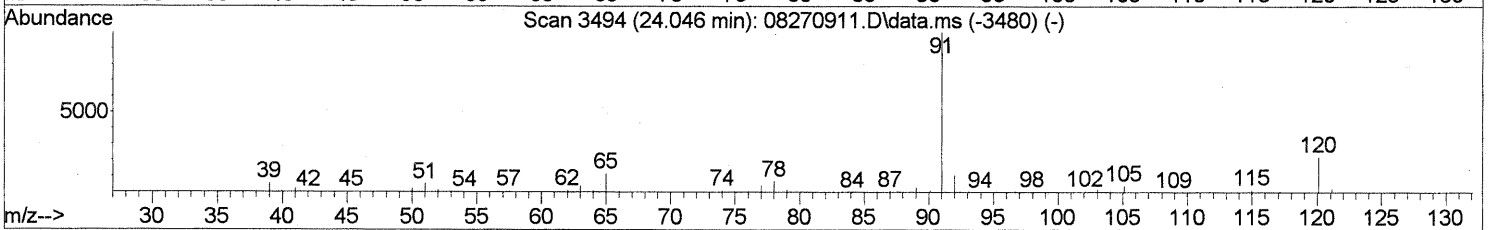
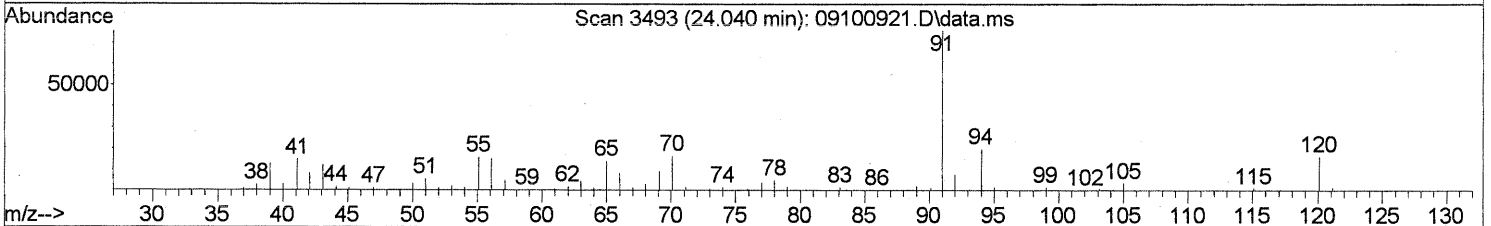
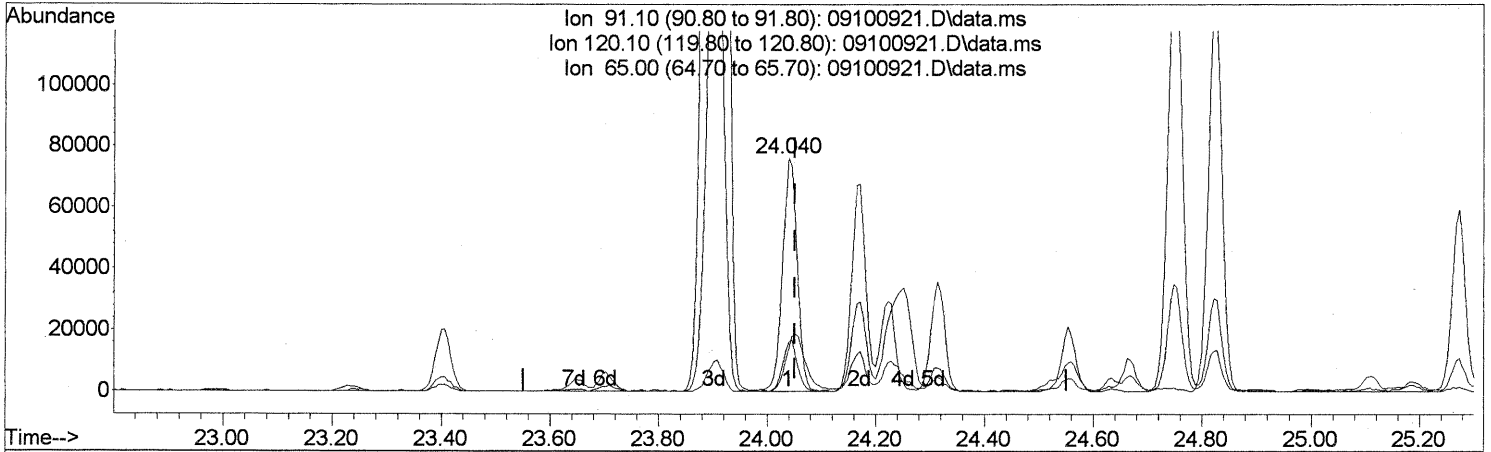
(74) Cumene (T)
 23.406min (-0.011) 1.98ng
 response 148413

Ion	Exp%	Act%
105.10	100	100
120.10	25.50	26.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

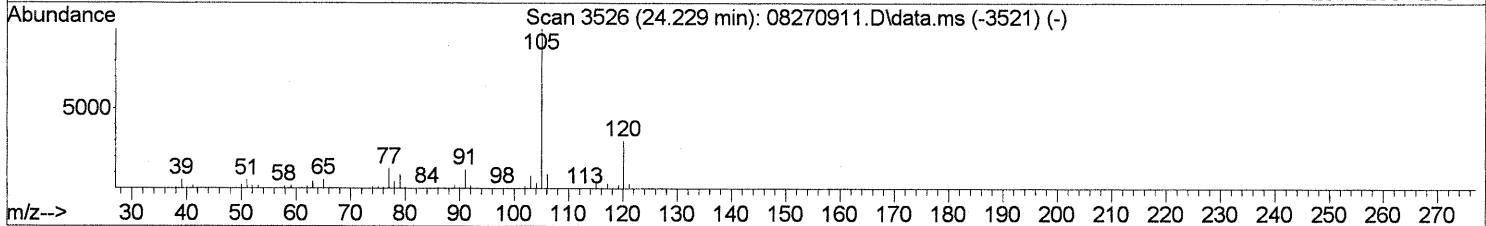
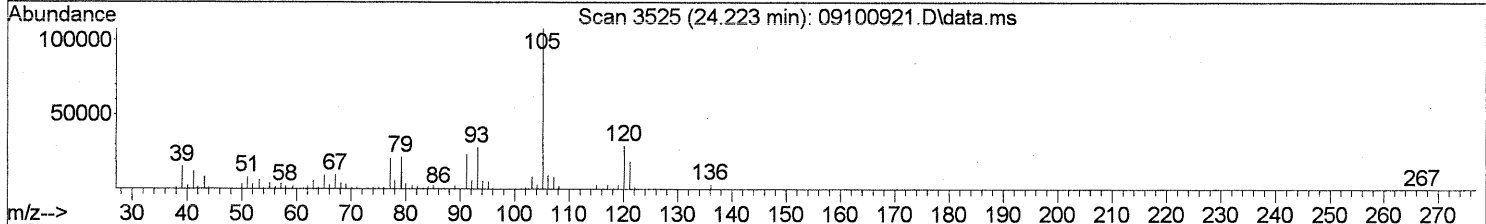
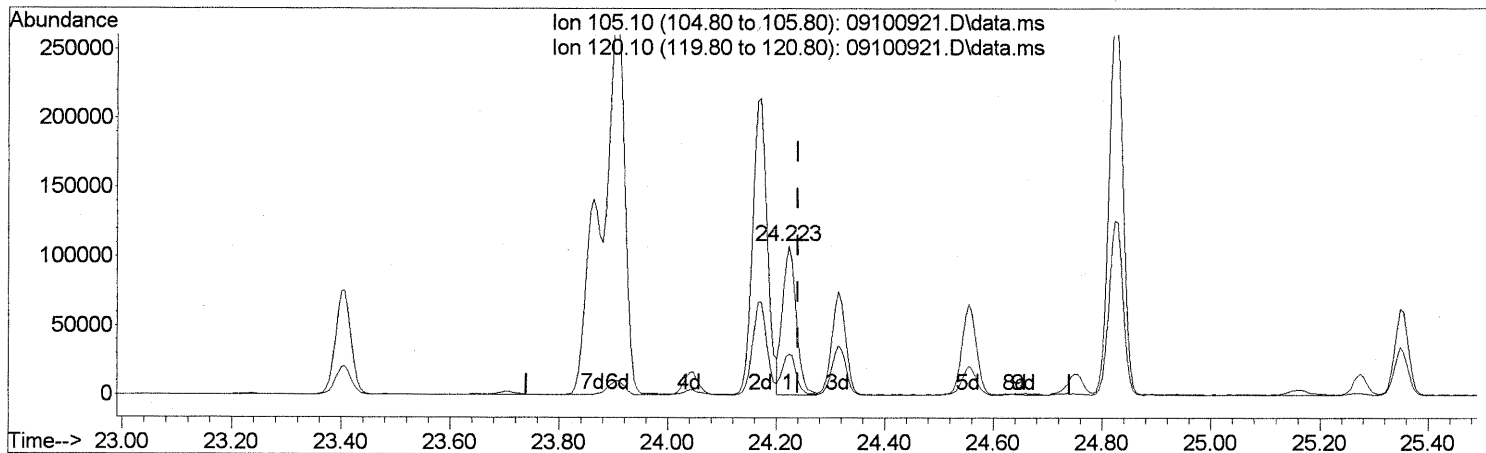
(76) n-Propylbenzene (T)
 24.040min (-0.011) 1.51ng
 response 143228

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	21.32
65.00	11.80	33.10#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

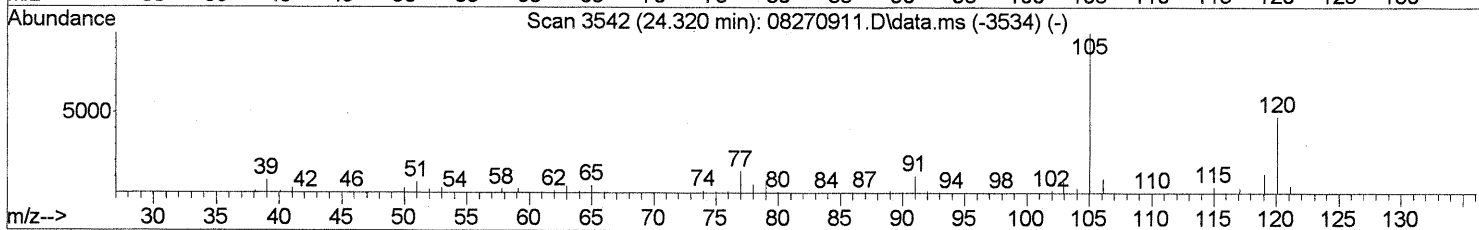
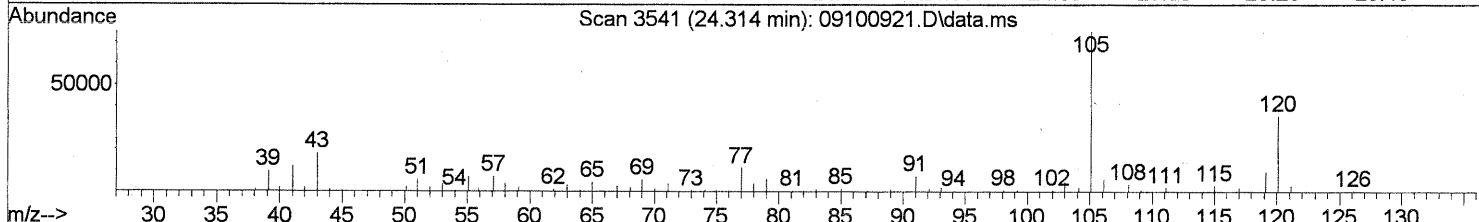
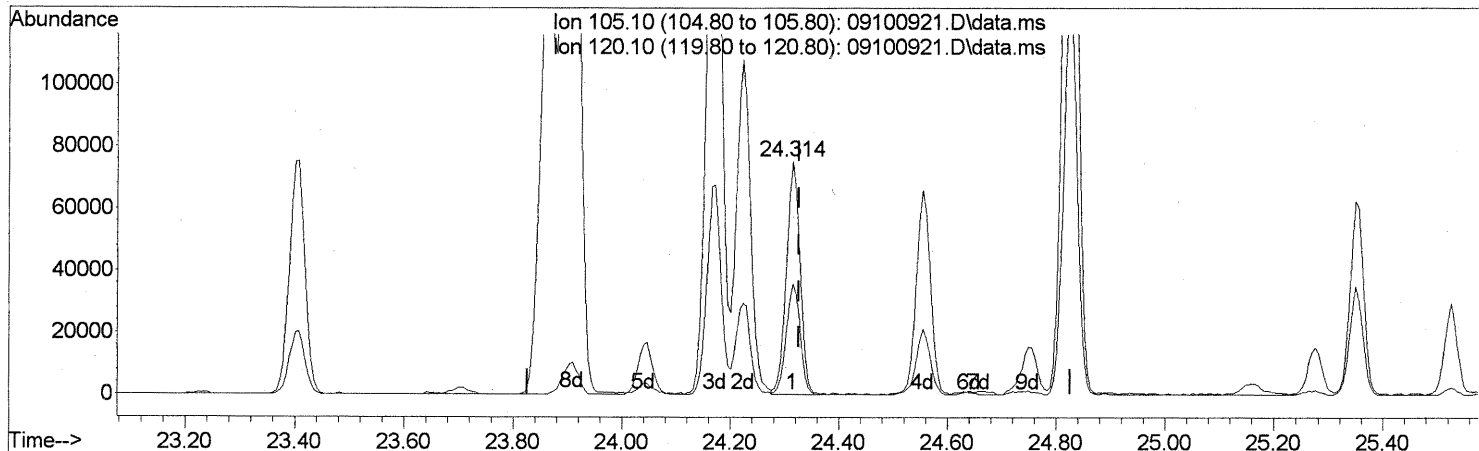
(78) 4-Ethyltoluene (T)
 24.223min (-0.017) 2.69ng
 response 190261

Ion	Exp%	Act%
105.10	100	100
120.10	28.70	28.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

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

24.314min (-0.011) 2.24ng

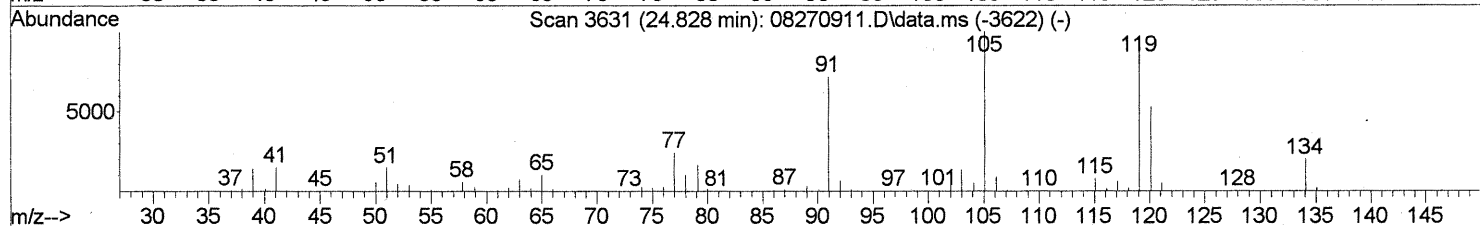
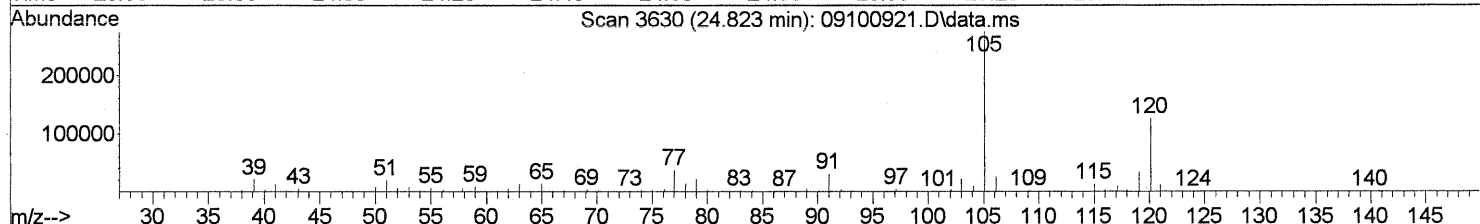
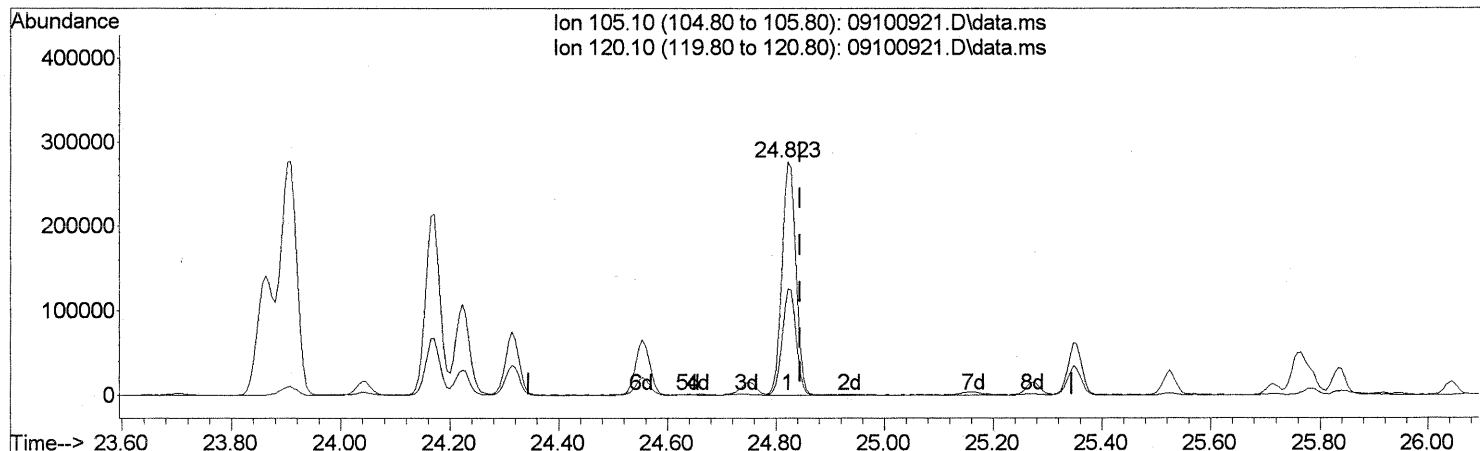
response 131574

Ion	Exp%	Act%
105.10	100	100
120.10	47.70	48.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

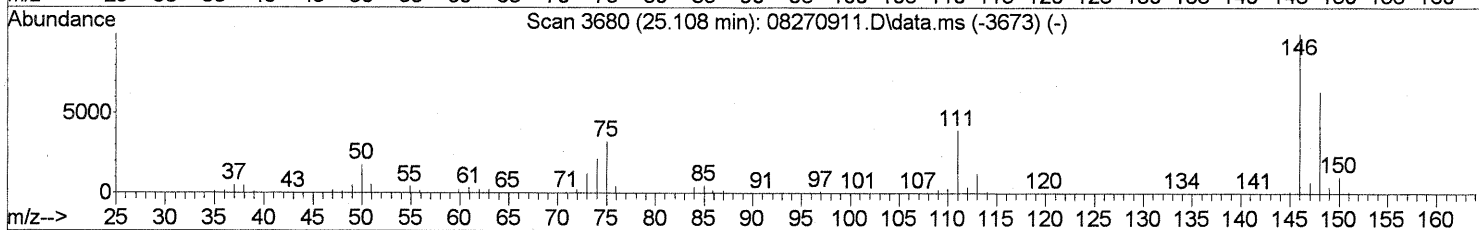
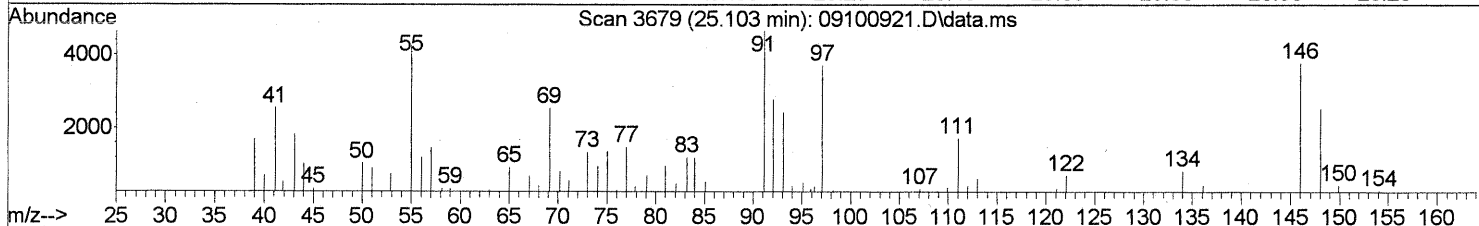
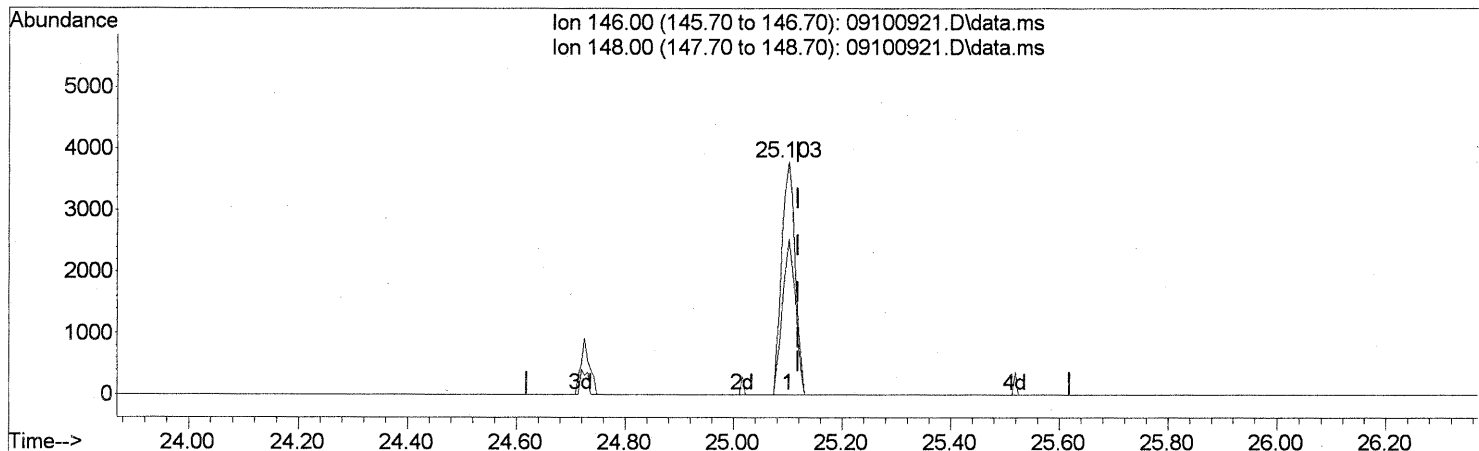
(82) 1,2,4-Trimethylbenzene (T)
 24.823min (-0.023) 8.31ng
 response 498595

Ion	Exp%	Act%
105.10	100	100
120.10	52.00	45.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.103min (-0.017) 0.20ng

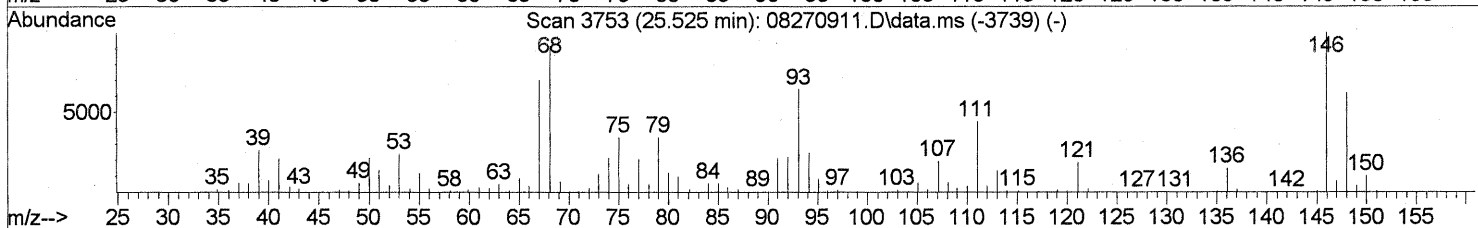
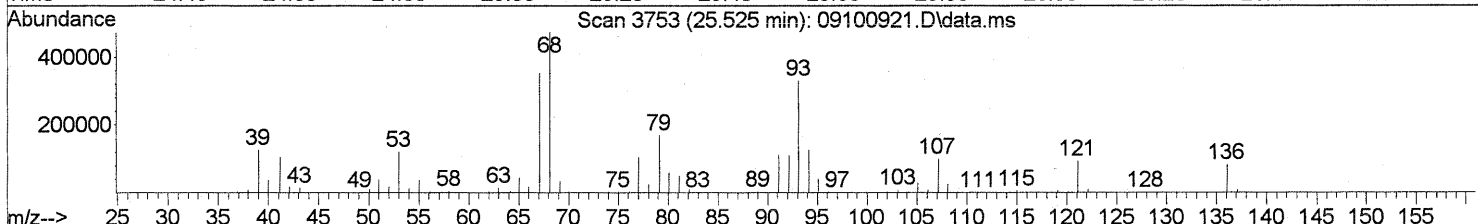
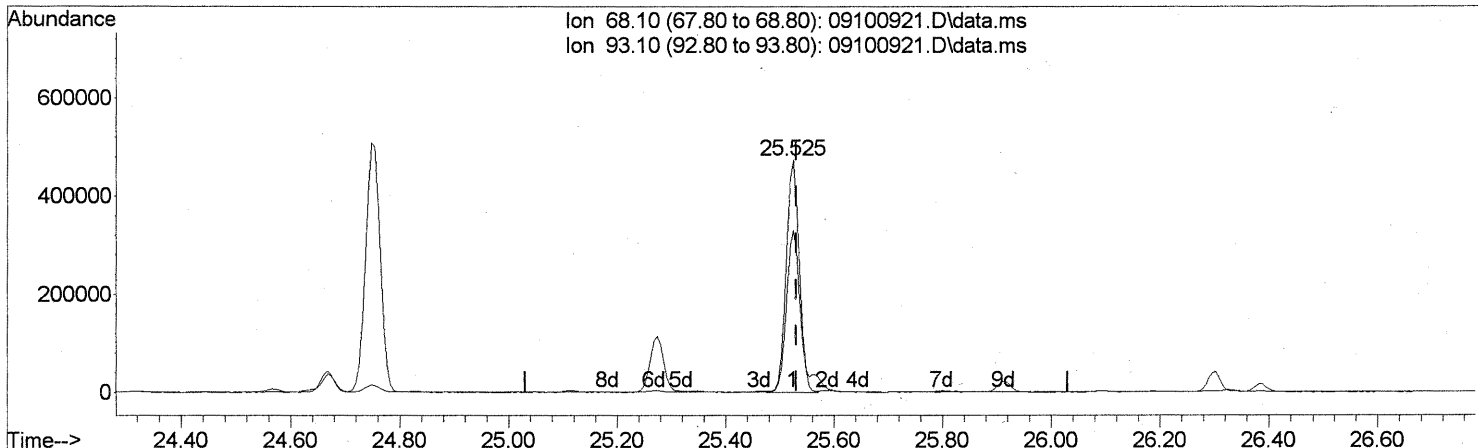
response 6633

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100921.D\data.ms

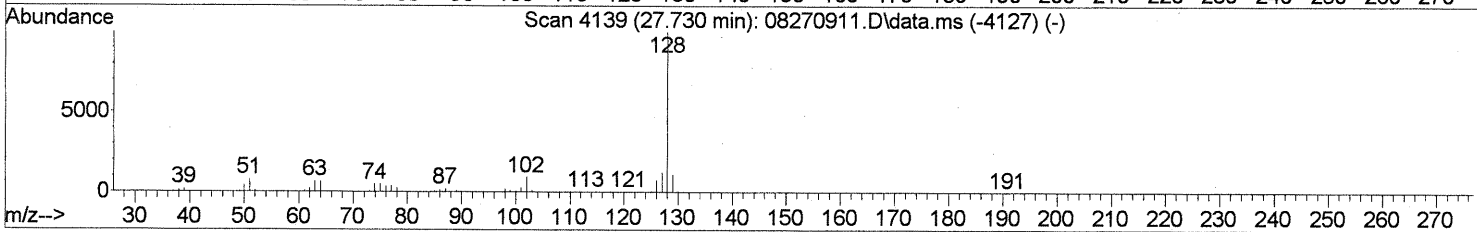
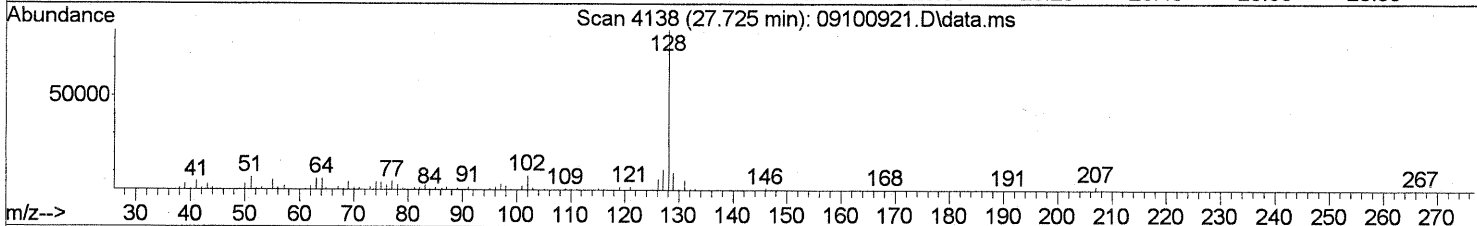
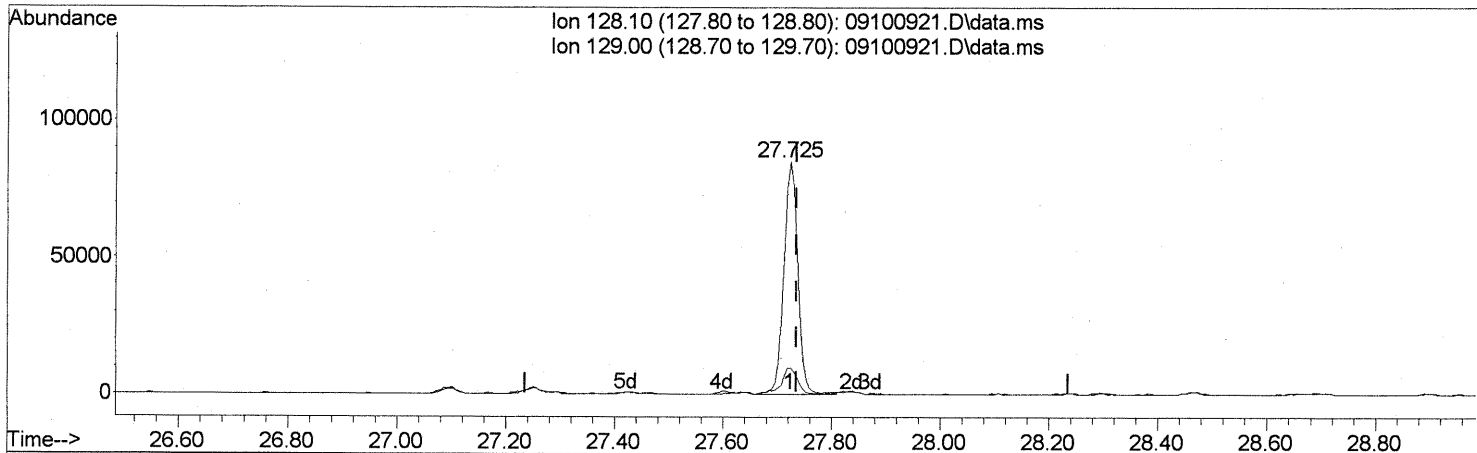
(91) d-Limonene (T)
 25.525min (-0.006) 33.07ng
 response 792003

Ion	Exp%	Act%
68.10	100	100
93.10	69.80	78.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100921.D
 Acq On : 11 Sep 2009 00:26
 Operator : LM/CC
 Sample : P0903141-003 (1000ml)
 Misc : EH&E 105016
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:32:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



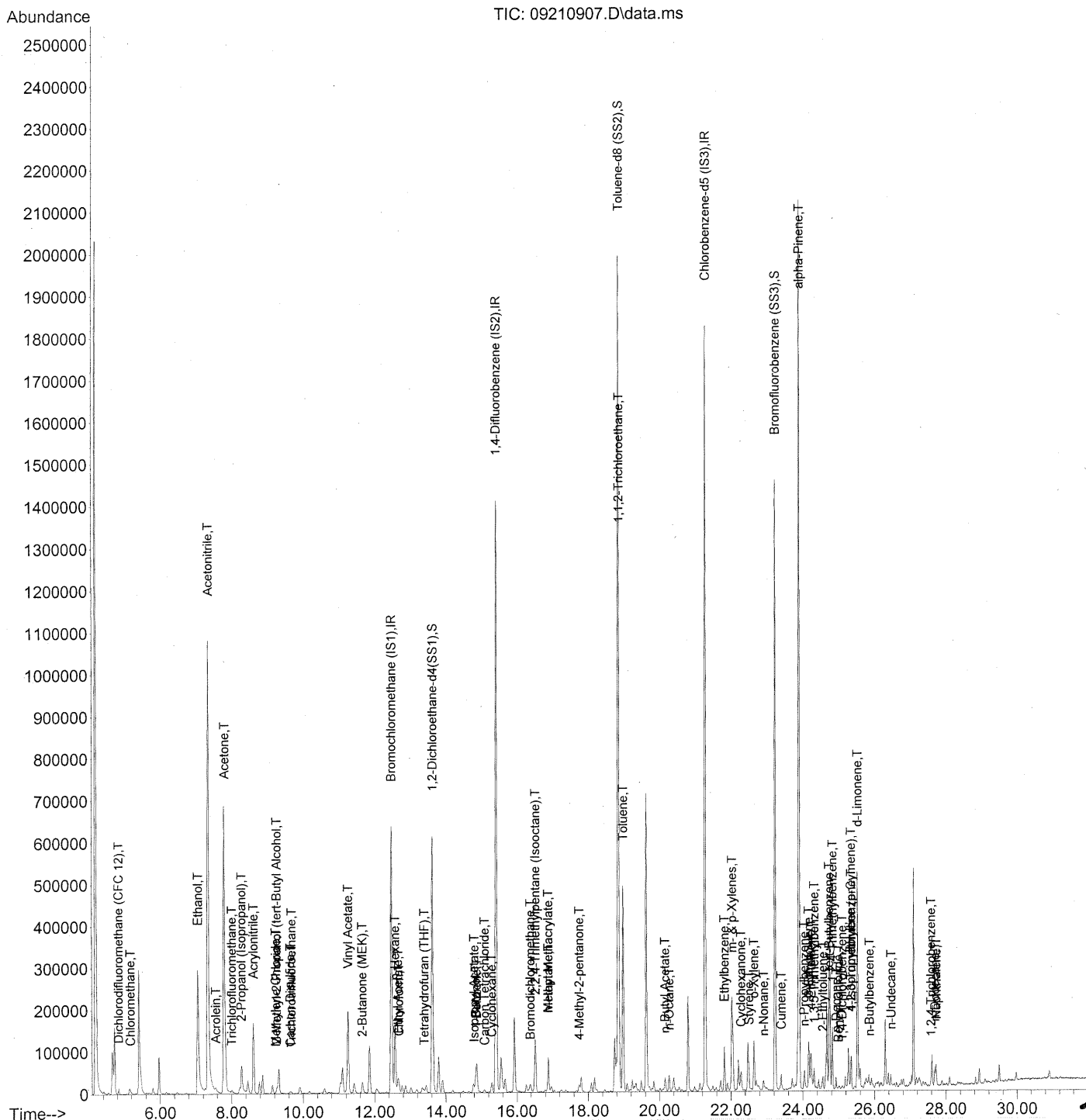
TIC: 09100921.D\data.ms

(95) Naphthalene (T)
 27.725min (-0.011) 1.83ng
 response 151540

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	13.22
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_09\21\
Data File : 09210907.D
Acq On : 21 Sep 2009 10:48 am
Operator : WA/CC
Sample : P0903141-003dil (200ml)
Misc : EH&E 105016
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:23:16 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210907.D
 Acq On : 21 Sep 2009 10:48 am
 Operator : WA/CC
 Sample : P0903141-003dil (200ml)
 Misc : EH&E 105016
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:23:16 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

m 9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	327763	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1642294	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	753984	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	616670	23.742	ng	-0.03
Spiked Amount	25.000			Recovery =	94.96%	
57) Toluene-d8 (SS2)	18.84	98	1729998	25.674	ng	-0.02
Spiked Amount	25.000			Recovery =	102.68%	
73) Bromofluorobenzene (SS3)	23.23	174	482849	24.898	ng	-0.01
Spiked Amount	25.000			Recovery =	99.60%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.64	42	218	N.D.		
3) Dichlorodifluoromethan...	4.84	85	13533	0.326	ng	94
4) Chloromethane	5.17	50	5618	0.201	ng	93
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	7.06	45	607956	41.354	ng	99
11) Acetonitrile	<u>7.34</u>	41	1751308	<u>42.888</u>	ng	99
12) Acrolein	7.56	56	11652	1.038	ng	91
13) Acetone	7.79	58	269416	17.720	ng	# 81
14) Trichlorofluoromethane	8.01	101	6516	0.178	ng	92
15) 2-Propanol (Isopropanol)	8.28	45	152002	3.007	ng	95
16) Acrylonitrile	8.61	53	2678	0.107	ng	# 23
17) 1,1-Dichloroethene	9.14	96	87	N.D.		
18) 2-Methyl-2-Propanol (t...	9.26	59	7182	0.142	ng	# 1
19) Methylene Chloride	9.24	84	979	0.051	ng	80
20) 3-Chloro-1-propene (Al...	9.42	41	110	N.D.		
21) Trichlorotrifluoroethane	9.67	151	1273	0.088	ng	98
22) Carbon Disulfide	9.64	76	9317	0.136	ng	87
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.19	73	228	N.D.		
26) Vinyl Acetate	11.25	86	10775	2.828	ng	# 1
27) 2-Butanone (MEK)	11.65	72	12318	1.003	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.62	87	496	N.D.		
30) Ethyl Acetate	12.66	61	3520	0.533	ng	95
31) n-Hexane	12.57	57	105329	3.204	ng	9

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Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210907.D
 Acq On : 21 Sep 2009 10:48 am
 Operator : WA/CC
 Sample : P0903141-003dil (200ml)
 Misc : EH&E 105016
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:23:16 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	21309	0.658	ng	89
34) Tetrahydrofuran (THF)	13.39	72	2251	0.169	ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	951	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.80	61	886	0.071	ng #	1
40) 1-Butanol	14.84	56	31838	1.558	ng #	29
41) Benzene	14.87	78	66925	0.867	ng	98
42) Carbon Tetrachloride	15.09	117	2984	0.115	ng	95
43) Cyclohexane	15.29	84	13180	0.463	ng	93
44) tert-Amyl Methyl Ether	15.84	73	94	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	4980	0.196	ng #	48
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.51	57	145019	1.651	ng	95
50) Methyl Methacrylate	16.88	100	6918	0.967	ng #	1
51) n-Heptane	16.88	71	24639	1.231	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.75	58	3056	0.173	ng	92
54) trans-1,3-Dichloropropene	18.36	75	92	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	149280	8.298	ng #	7
58) Toluene	18.97	91	419914	5.786	ng	99
59) 2-Hexanone	19.40	43	1602	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.15	43	29268	0.575	ng	89
63) n-Octane	20.27	57	8580	0.514	ng	93
64) Tetrachloroethene	20.79	166	99	N.D.		
65) Chlorobenzene	21.37	112	1184	N.D.		
66) Ethylbenzene	21.81	91	95501	1.150	ng	100
67) m- & p-Xylenes	22.03	91	229022	3.466	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	17820	0.366	ng	98
70) o-Xylene	22.64	91	85171	1.283	ng	99
71) n-Nonane	22.91	43	12229	0.307	ng	99
72) 1,1,2,2-Tetrachloroethane	22.62	83	100	N.D.		
74) Cumene	23.40	105	30213	0.359	ng	91
75) alpha-Pinene	23.90	93	1019193	23.355	ng	95
76) n-Propylbenzene	24.04	91	27067	0.253	ng	92
77) 3-Ethyltoluene	24.17	105	69293	0.861	ng	94
78) 4-Ethyltoluene	24.22	105	36848	0.464	ng	99
79) 1,3,5-Trimethylbenzene	24.31	105	24991	0.378	ng	97

Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210907.D
 Acq On : 21 Sep 2009 10:48 am
 Operator : WA/CC
 Sample : P0903141-003dil (200ml)
 Misc : EH&E 105016
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:23:16 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

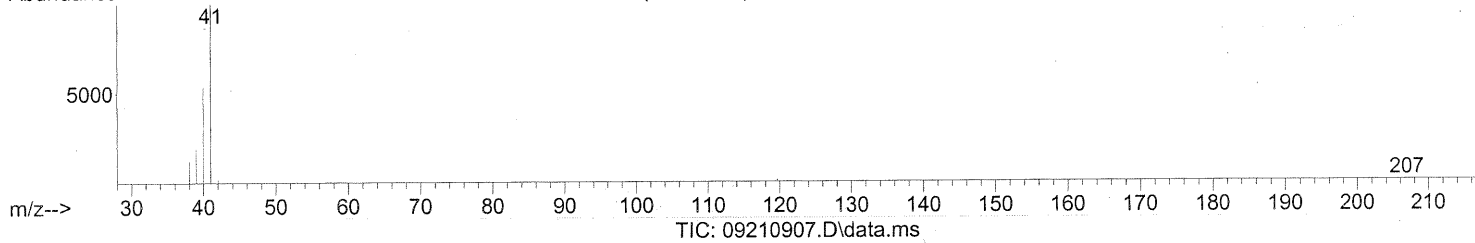
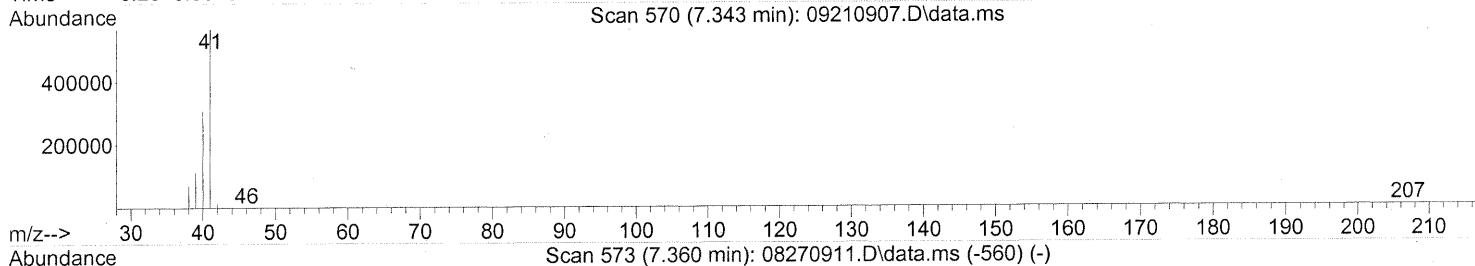
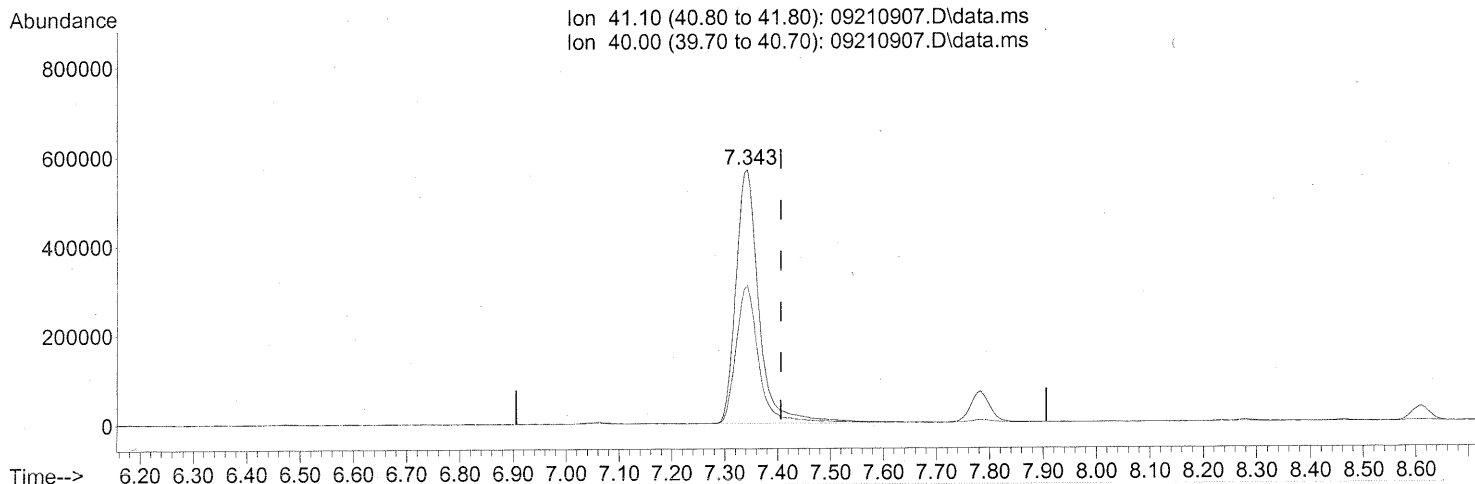
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.50	118	1206	N.D.		
81) 2-Ethyltoluene	24.55	105	21577	0.261	ng	96
82) 1,2,4-Trimethylbenzene	24.82	105	88848	1.316	ng	89
83) n-Decane	24.93	57	12010	0.298	ng	89
84) Benzyl Chloride	24.99	91	5900	0.088	ng	67
85) 1,3-Dichlorobenzene	25.02	146	1279	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	2473	0.065	ng	87
87) sec-Butylbenzene	25.15	105	1919	N.D.		
88) 4-Isopropyltoluene (p-...	25.34	119	29004	0.349	ng	96
89) 1,2,3-Trimethylbenzene	25.35	105	19127	0.270	ng	91
90) 1,2-Dichlorobenzene	25.52	146	840	N.D.		
91) d-Limonene	25.52	68	131286	4.873	ng	90
92) 1,2-Dibromo-3-Chloropr...	26.06	157	516	N.D.		
93) n-Undecane	26.46	57	10445	0.250	ng	# 69
94) 1,2,4-Trichlorobenzene	27.58	180	2330	0.097	ng	92
95) Naphthalene	27.72	128	41978	0.450	ng	98
96) n-Dodecane	27.69	57	17709	0.371	ng	96
97) Hexachlorobutadiene	28.14	225	228	N.D.		
98) Cyclohexanone	22.28	55	26859	0.960	ng	92
99) tert-Butylbenzene	24.73	119	4308	0.066	ng	97
100) n-Butylbenzene	25.85	91	10213	0.136	ng	# 53

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210907.D
 Acq On : 21 Sep 2009 10:48 am
 Operator : WA/CC
 Sample : P0903141-003dil (200ml)
 Misc : EH&E 105016
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:23:16 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.343min (-0.063) 42.89ng

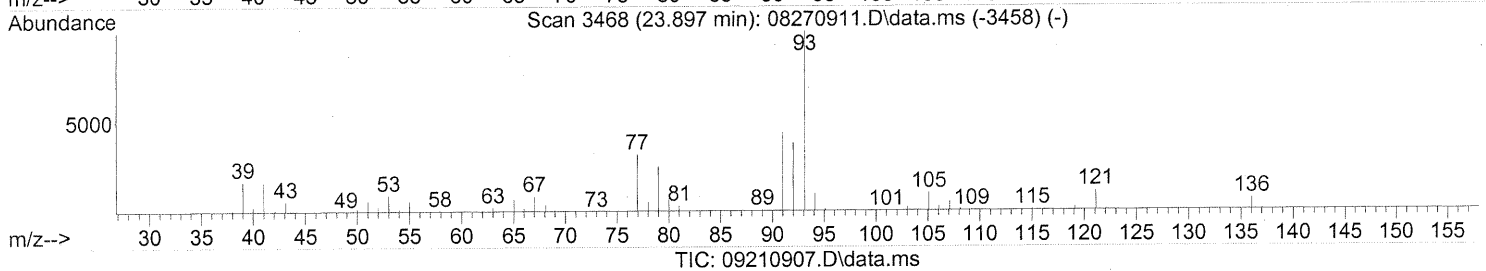
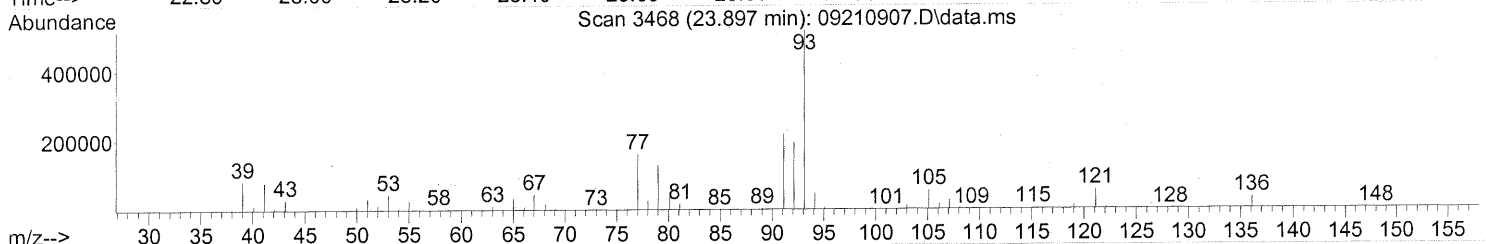
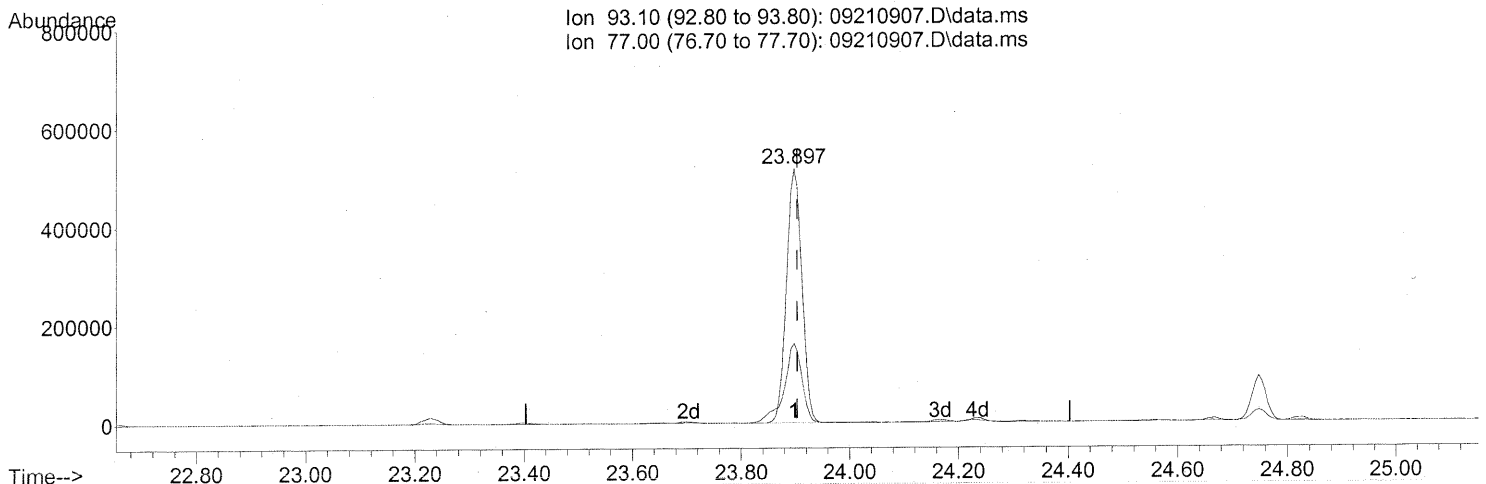
response 1751308

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\21\
Data File : 09210907.D
Acq On : 21 Sep 2009 10:48 am
Operator : WA/CC
Sample : P0903141-003dil (200ml)
Misc : EH&E 105016
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 11:23:16 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



(75) alpha-Pinene (T)
23.897min (-0.006) 23.36ng
response 1019193

Ion	Exp%	Act%
93.10	100	100
77.00	33.10	36.00
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105017
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00638

CAS Project ID: P0903141
CAS Sample ID: P0903141-004

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/11/09 & 9/15/09
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): 0.4 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.23

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	7.8	0.62	4.5	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.62	0.59	0.12	
74-87-3	Chloromethane	0.77	0.12	0.37	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.088	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.048	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	ND	0.12	ND	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	390	6.2	210	3.3	
75-05-8	Acetonitrile	160	0.62	96	0.37	D
107-02-8	Acrolein	10	0.62	4.6	0.27	
67-64-1	Acetone	160	6.2	67	2.6	
75-69-4	Trichlorofluoromethane	1.5	0.12	0.26	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	39	0.62	16	0.25	
107-13-1	Acrylonitrile	ND	0.62	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.73	0.12	0.095	0.016	
75-15-0	Carbon Disulfide	1.5	0.62	0.49	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.7	
78-93-3	2-Butanone (MEK)	8.4	0.62	2.9	0.21	

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

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

D = The reported result is from a dilution.

Verified By: Ru

Date: 9/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105017
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00638

CAS Project ID: P0903141
CAS Sample ID: P0903141-004

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/11/09 & 9/15/09
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): 0.4 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.23

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	5.2	0.62	1.4	0.17	
110-54-3	n-Hexane	36	0.62	10	0.17	
67-66-3	Chloroform	6.6	0.12	1.3	0.025	
109-99-9	Tetrahydrofuran (THF)	1.5	0.62	0.49	0.21	
107-06-2	1,2-Dichloroethane	ND	0.12	ND	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.023	
71-43-2	Benzene	9.2	0.12	2.9	0.039	
56-23-5	Carbon Tetrachloride	1.0	0.12	0.16	0.020	
110-82-7	Cyclohexane	5.0	0.62	1.5	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.027	
75-27-4	Bromodichloromethane	2.1	0.12	0.31	0.018	
79-01-6	Trichloroethene	ND	0.12	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.62	ND	0.15	
142-82-5	n-Heptane	13	0.62	3.2	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	2.1	0.62	0.51	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	51	0.62	13	0.16	
591-78-6	2-Hexanone	2.2	0.62	0.53	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	5.1	0.62	1.1	0.13	

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: Re

Date: 9/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105017
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00638

CAS Project ID: P0903141
CAS Sample ID: P0903141-004

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/11/09 & 9/15/09
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): 0.4 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	4.7	0.62	1.0	0.13	
127-18-4	Tetrachloroethene	ND	0.12	ND	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	11	0.62	2.5	0.14	
179601-23-1	m,p-Xylenes	33	0.62	7.5	0.14	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	2.9	0.62	0.67	0.14	
95-47-6	o-Xylene	12	0.62	2.7	0.14	
111-84-2	n-Nonane	2.7	0.62	0.51	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	2.9	0.62	0.59	0.13	
80-56-8	alpha-Pinene	190	0.62	34	0.11	D
103-65-1	n-Propylbenzene	2.2	0.62	0.44	0.13	
622-96-8	4-Ethyltoluene	3.8	0.62	0.77	0.13	
108-67-8	1,3,5-Trimethylbenzene	3.2	0.62	0.65	0.13	
95-63-6	1,2,4-Trimethylbenzene	12	0.62	2.4	0.13	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.020	
106-46-7	1,4-Dichlorobenzene	0.30	0.12	0.049	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.020	
5989-27-5	d-Limonene	43	0.62	7.6	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	ND	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	0.62	ND	0.083	
91-20-3	Naphthalene	2.5	0.62	0.47	0.12	
87-68-3	Hexachlorobutadiene	ND	0.62	ND	0.058	

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

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

D = The reported result is from a dilution.

Verified By: Re

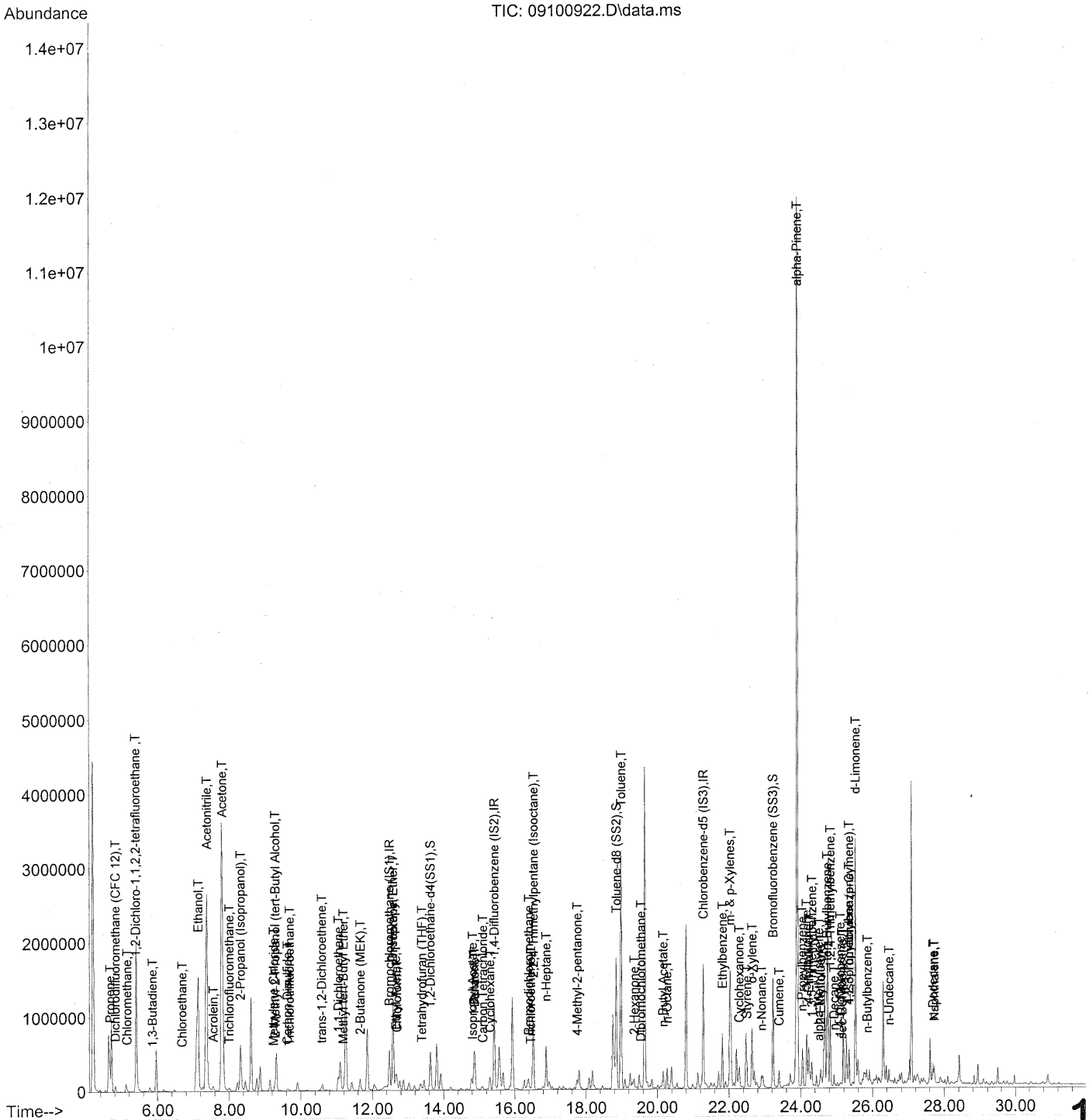
Date: 9/21/09

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Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08 am
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 20:33:14 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08 am
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 20:33:14 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	271902	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1351846	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	688006	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.62	65	515656	23.932	ng	-0.03
Spiked Amount				25.000		
				Recovery =	95.72%	✓
57) Toluene-d8 (SS2)	18.85	98	1490275	24.237	ng	-0.01
Spiked Amount				25.000		
				Recovery =	96.96%	✓
73) Bromofluorobenzene (SS3)	23.23	174	467858	26.438	ng	0.00
Spiked Amount				25.000		
				Recovery =	105.76%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	124574	6.334	ng	92
3) Dichlorodifluoromethan...	4.82	85	82316	2.391	ng	99
4) Chloromethane	5.15	50	14492	0.626	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.38	135	1364	0.096	ng	# 56
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.86	54	1347	0.083	ng	# 66
8) Bromomethane	6.35	94	619	N.D.		
9) Chloroethane	6.69	64	1126	0.095	ng	# 42
10) Ethanol	7.13	45	3840890	314.935	ng	100
11) Acetonitrile	7.37	41	4737412	139.849	ng	100
12) Acrolein	7.55	56	79298	8.516	ng	98
13) Acetone	7.80	58	1626276	128.941	ng	# 75
14) Trichlorofluoromethane	8.00	101	36619	1.207	ng	98
15) 2-Propanol (Isopropanol)	8.31	45	1315854	31.382	ng	99
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	9.02	96	389	N.D.		
18) 2-Methyl-2-Propanol (t...	9.28	59	17592	0.419	ng	# 1
19) Methylene Chloride	9.24	84	3773	0.236	ng	99
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.68	151	7139	0.594	ng	92
22) Carbon Disulfide	9.62	76	70559	1.240	ng	99
23) trans-1,2-Dichloroethene	10.58	61	1419	0.062	ng	# 28
24) 1,1-Dichloroethane	11.04	63	1754	0.061	ng	# 1
25) Methyl tert-Butyl Ether	11.18	73	4784	0.106	ng	# 53
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.66	72	69737	6.845	ng	94
28) cis-1,2-Dichloroethene	12.30	61	113	N.D.		
29) Diisopropyl Ether	12.57	87	9012	0.606	ng	# 1
30) Ethyl Acetate	12.66	61	23087	4.217	ng	87
31) n-Hexane	12.58	57	791492	29.022	ng	99

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08 am
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 20:33:14 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	143393	5.334 ng		97
34) Tetrahydrofuran (THF)	13.38	72	13028	1.179 ng	#	1
35) Ethyl tert-Butyl Ether	13.45	87	88	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.	d	
38) 1,1,1-Trichloroethane	14.18	97	1035	N.D.		
39) Isopropyl Acetate	14.81	61	9746	0.948 ng	#	1
40) 1-Butanol	14.84	56	214529	12.750 ng	#	35
41) Benzene	14.87	78	473022	7.443 ng		99
42) Carbon Tetrachloride	15.09	117	17597	0.825 ng		95
43) Cyclohexane	15.29	84	95727	4.087 ng		94
44) tert-Amyl Methyl Ether	15.85	73	1838	N.D.		
45) 1,2-Dichloropropane	16.11	63	597	N.D.		
46) Bromodichloromethane	16.39	83	35345	1.688 ng	#	51
47) Trichloroethene	16.44	130	853	0.055 ng		99
48) 1,4-Dioxane	0.00	88	0	N.D.	d	
49) 2,2,4-Trimethylpentane...	16.52	57	1071521	14.816 ng		95
50) Methyl Methacrylate	0.00	100	0	N.D.	d	
51) n-Heptane	16.88	71	177131	10.754 ng		96
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.75	58	24790	1.708 ng		99
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.55	97	691	N.D.		
58) Toluene	18.98	91	2720635	41.082 ng		99
59) 2-Hexanone	19.35	43	70994m	1.754 ng		
60) Dibromochloromethane	19.54	129	1573	0.094 ng	#	11
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.16	43	193234	4.162 ng		94
63) n-Octane	20.27	57	58525	3.840 ng		99
64) Tetrachloroethene	20.47	166	403	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	21.82	91	670763	8.856 ng		100
67) m- & p-Xylenes	22.03	91	1596391	26.474 ng		99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	102967	2.319 ng		99
70) o-Xylene	22.65	91	578590	9.552 ng		99
71) n-Nonane	22.91	43	78867m	2.167 ng		
72) 1,1,2,2-Tetrachloroethane	22.65	83	873	N.D.		
74) Cumene	23.40	105	180925	2.357 ng		98
75) alpha-Pinene	23.90	93	5765603	144.790 ng	ca 1/2	88
76) n-Propylbenzene	24.04	91	171023	1.754 ng	#	80
77) 3-Ethyltoluene	24.17	105	475703	6.477 ng	HT	99
78) 4-Ethyltoluene	24.22	105	223961	3.090 ng		100
79) 1,3,5-Trimethylbenzene	24.31	105	157406	2.609 ng		100

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08 am
 Operator : LM/CC
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 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 20:33:14 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

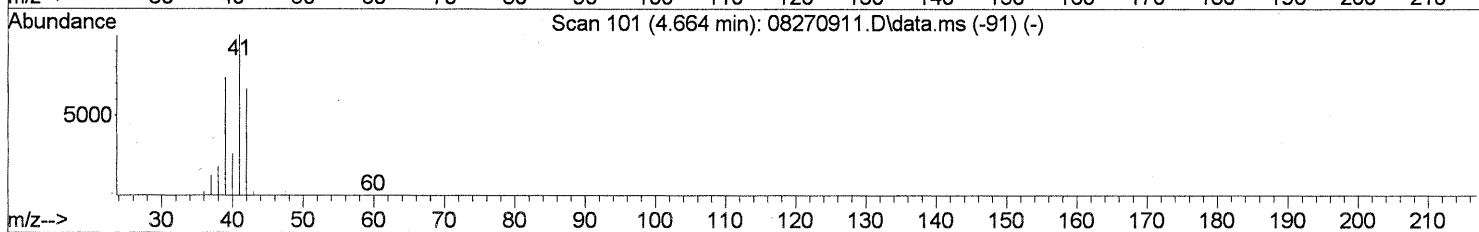
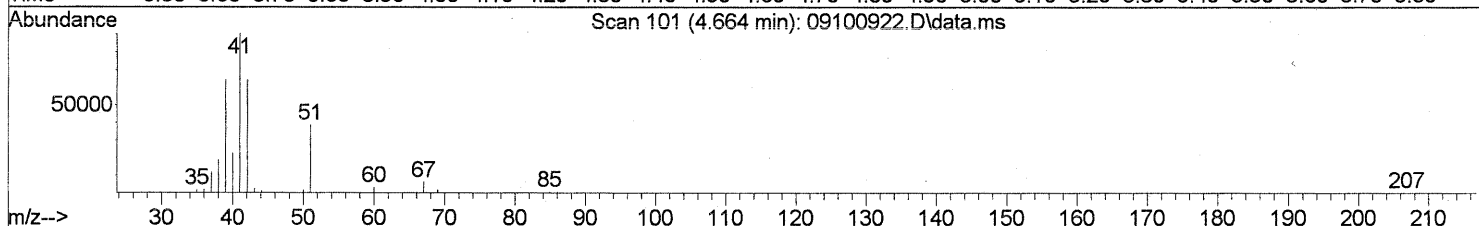
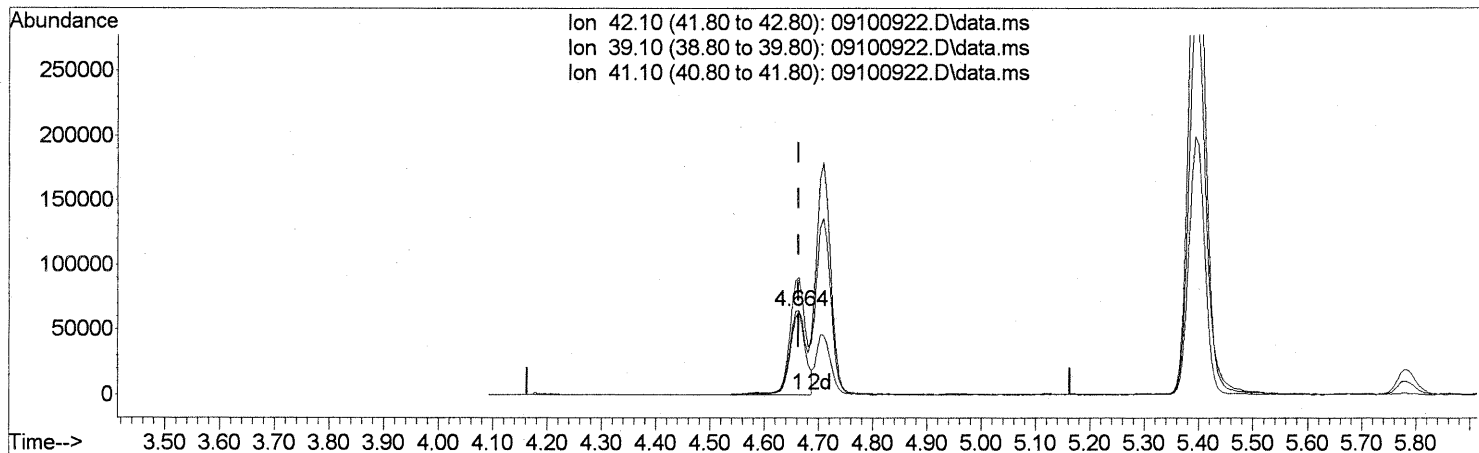
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	4102	0.129	ng	# 76
81) 2-Ethyltoluene	24.55	105	146091	1.939	ng	99
82) 1,2,4-Trimethylbenzene	24.82	105	586519	9.524	ng	91
83) n-Decane	24.93	57	57894	1.575	ng	93
84) Benzyl Chloride	25.00	91	1784	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.10	146	8304	0.240	ng	99
87) sec-Butylbenzene	25.15	105	11372	0.135	ng	# 75
88) 4-Isopropyltoluene (p-...	25.35	119	179305	2.365	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	129560	2.007	ng	98
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.	d	
91) d-Limonene	25.53	68	849559	34.558	ng	92
92) 1,2-Dibromo-3-Chloropr...	26.45	157	102	N.D.		
93) n-Undecane	26.46	57	63771	1.671	ng	88
94) 1,2,4-Trichlorobenzene	27.58	180	92	N.D.		
95) Naphthalene	27.72	128	171964	2.021	ng	94
96) n-Dodecane	27.69	57	73953	1.700	ng	88
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	145704	5.706	ng	# 92
99) tert-Butylbenzene	24.73	119	15212	0.255	ng	91
100) n-Butylbenzene	25.86	91	58347	0.851	ng	# 49

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

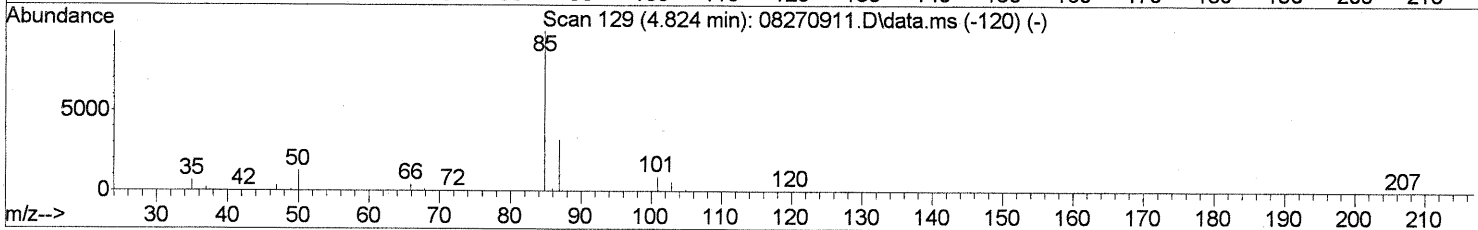
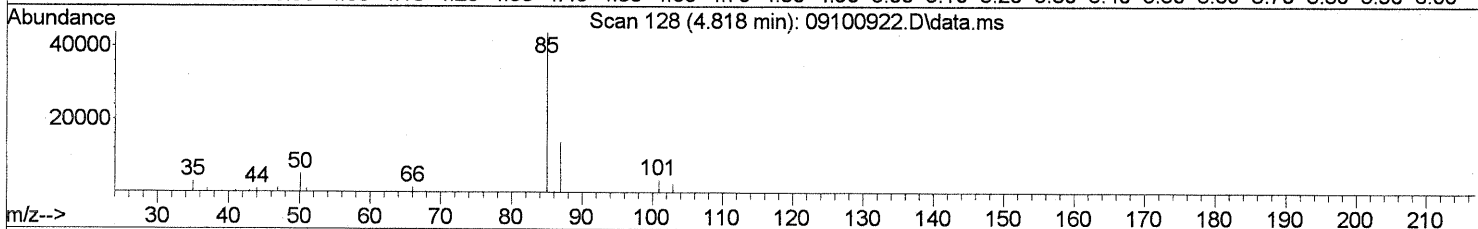
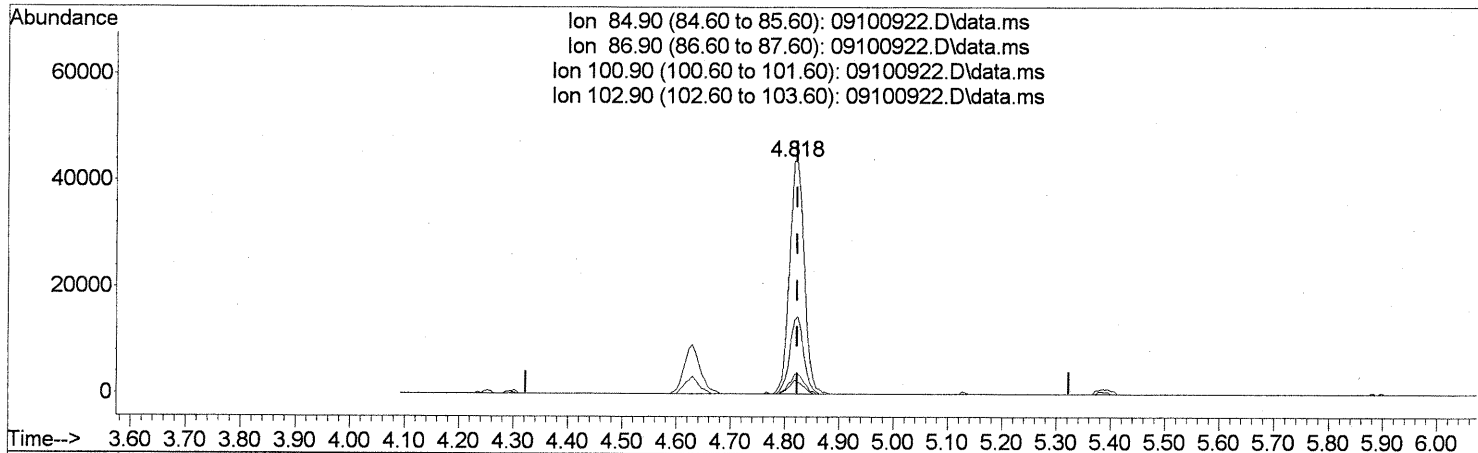
(2) Propene (T)
 4.664min (-0.000) 6.33ng
 response 124574

Ion	Exp%	Act%
42.10	100	100
39.10	109.70	102.90
41.10	149.80	138.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
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 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.818min (-0.006) 2.39ng

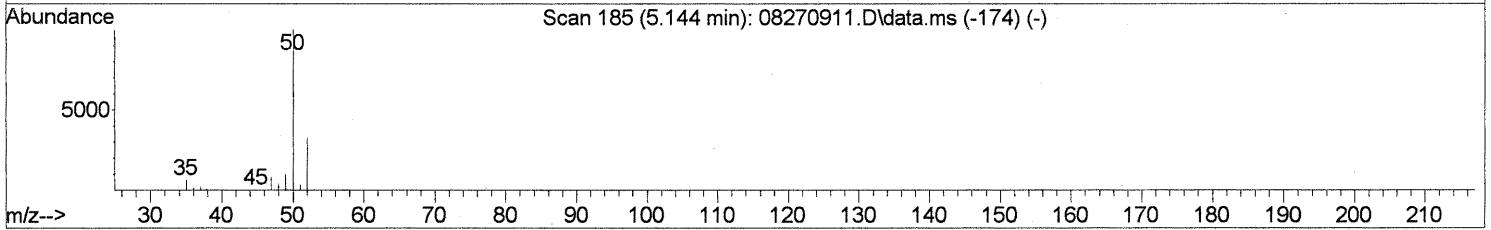
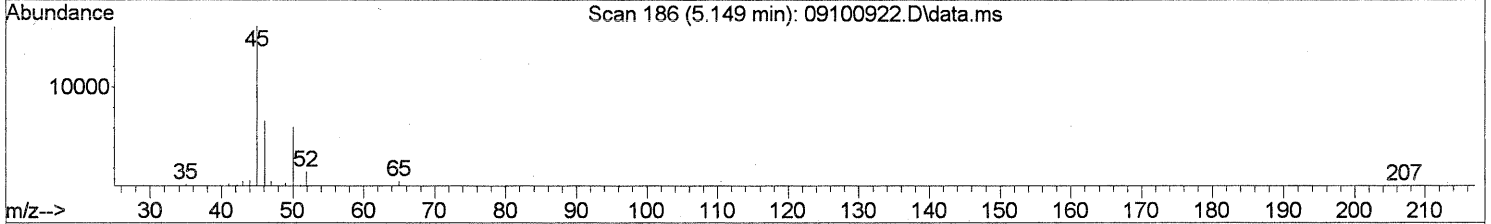
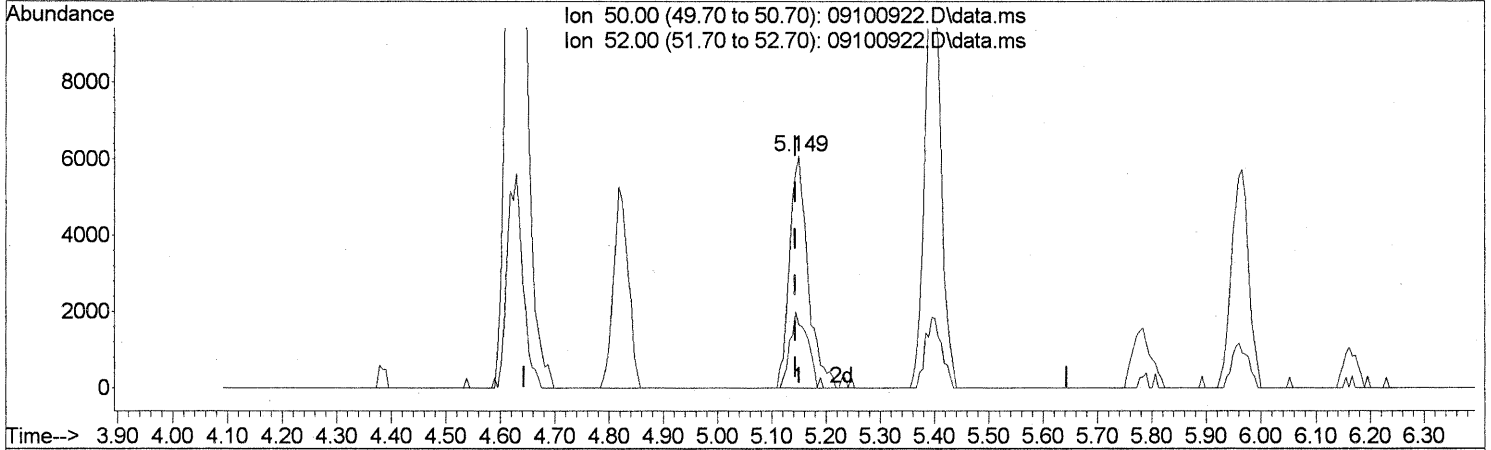
response 82316

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.57
100.90	8.80	8.56
102.90	5.60	5.34

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
Data File : 09100922.D
Acq On : 11 Sep 2009 1:08
Operator : LM/CC
Sample : P0903141-004 (1000ml)
Misc : EH&E 105017
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



TIC: 09100922.D\data.ms

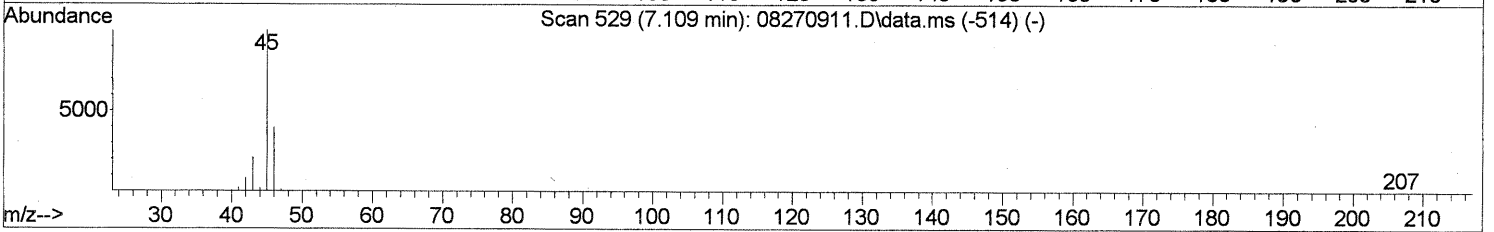
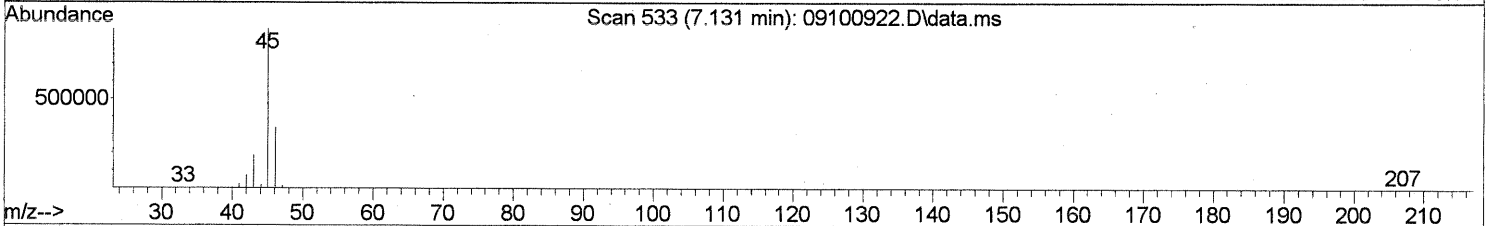
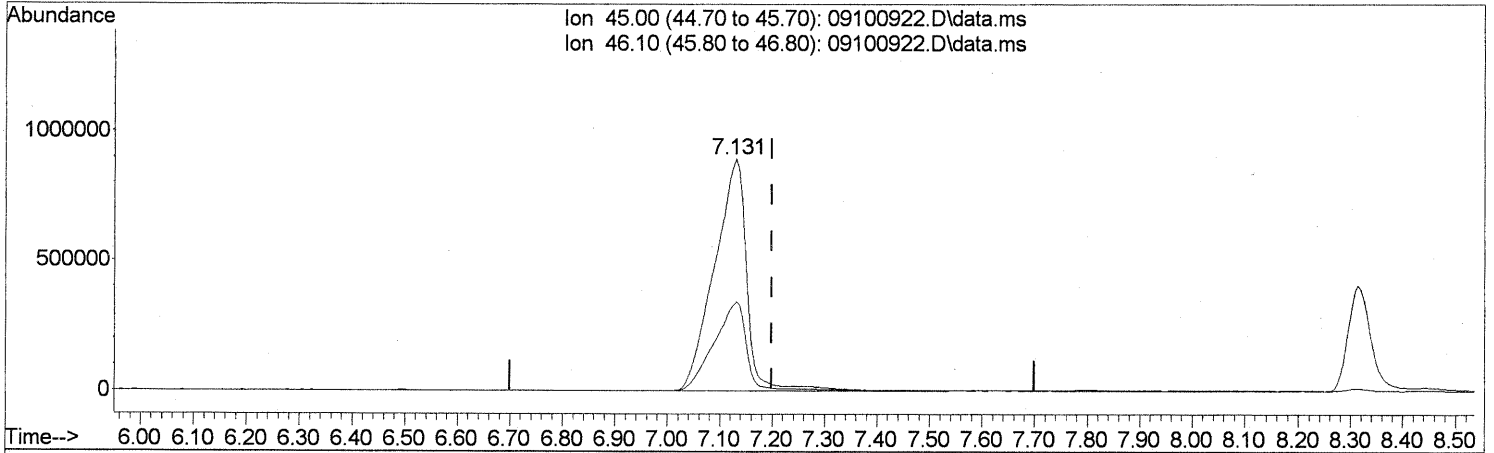
(4) Chloromethane (T)
5.149min (+0.006) 0.63ng
response 14492

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	31.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
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TIC: 09100922.D\data.ms

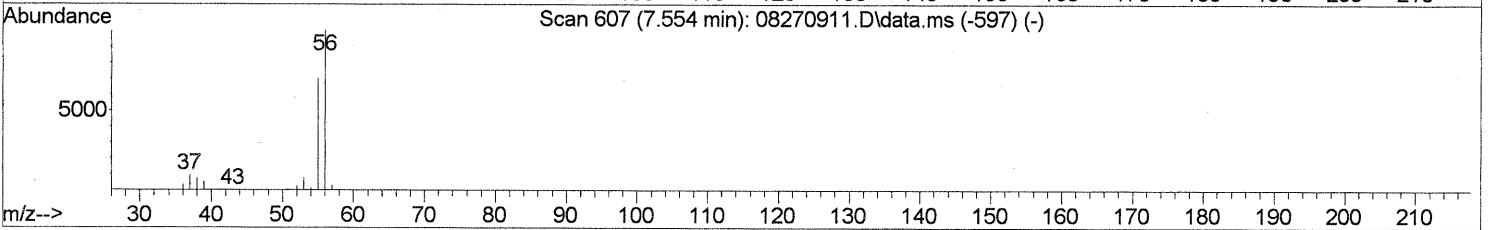
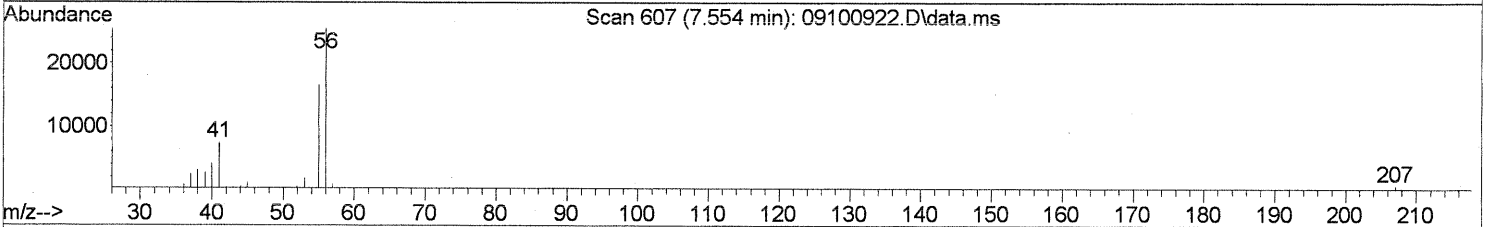
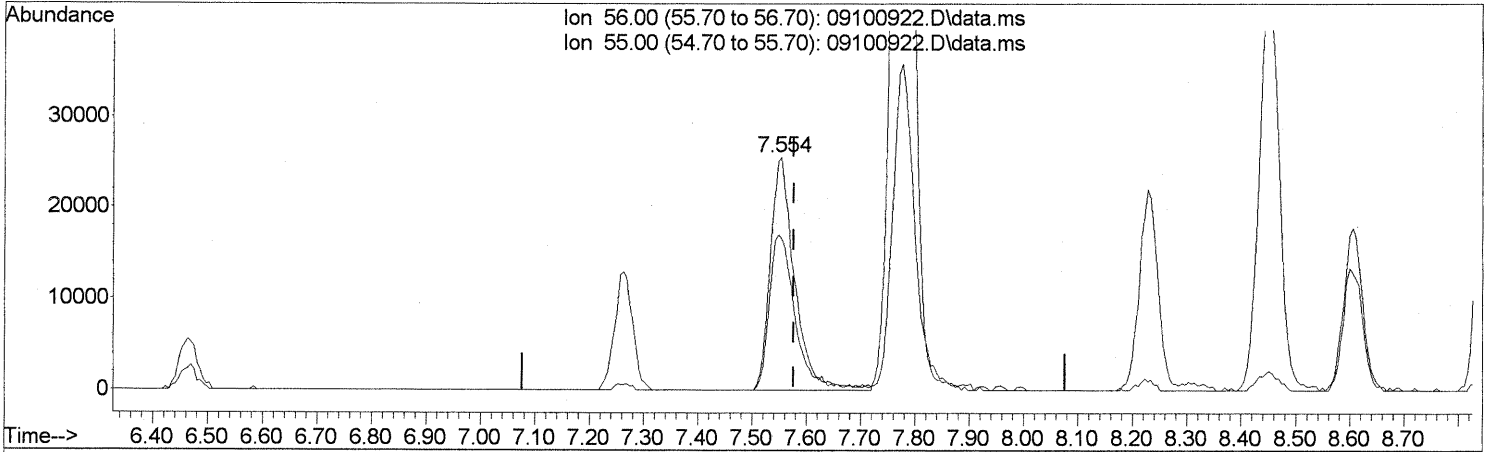
(10) Ethanol (T)
 7.131min (-0.069) 314.93ng
 response 3840890

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	38.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

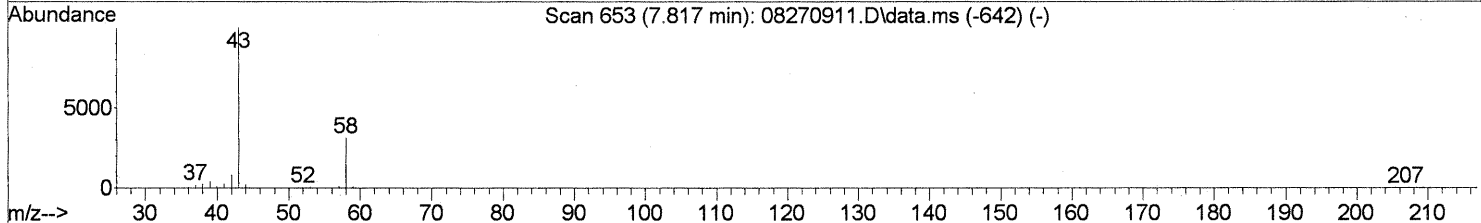
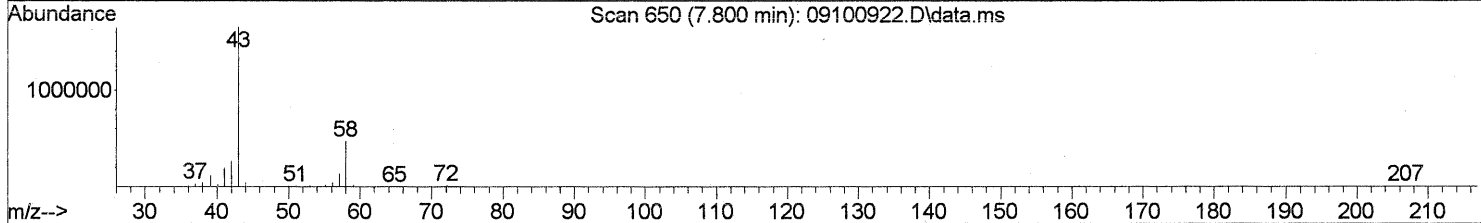
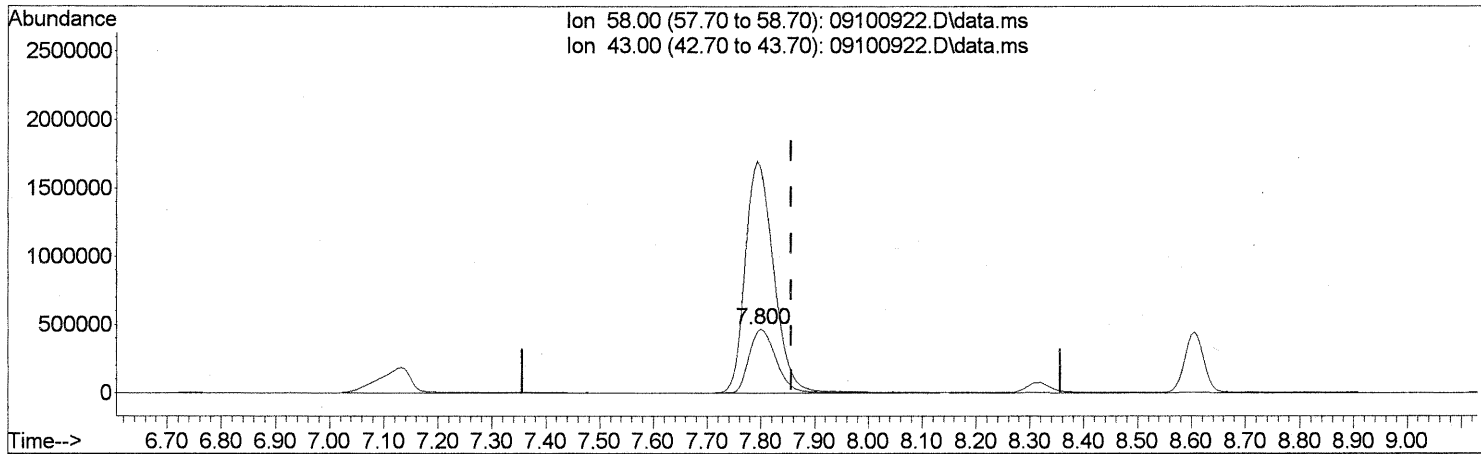
(12) Acrolein (T)
 7.554min (-0.023) 8.52ng
 response 79298

Ion	Exp%	Act%
56.00	100	100
55.00	71.10	69.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

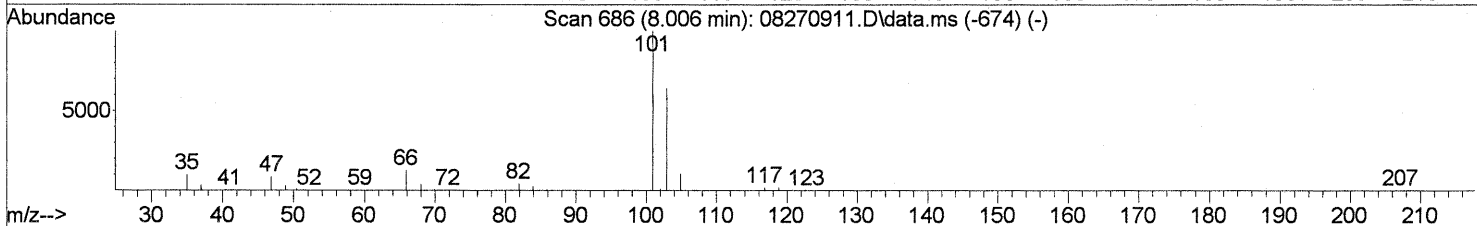
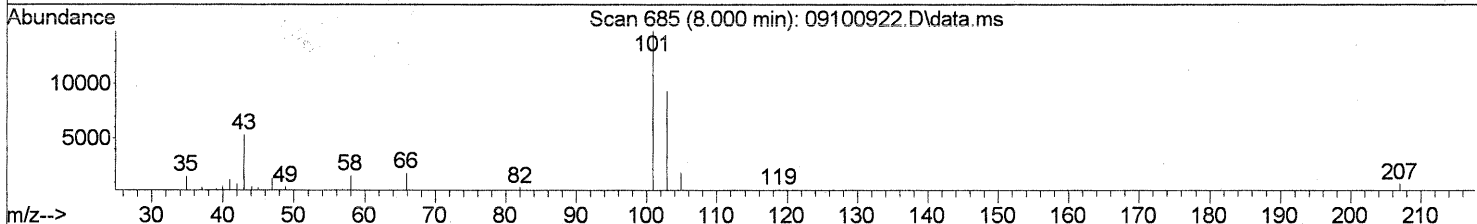
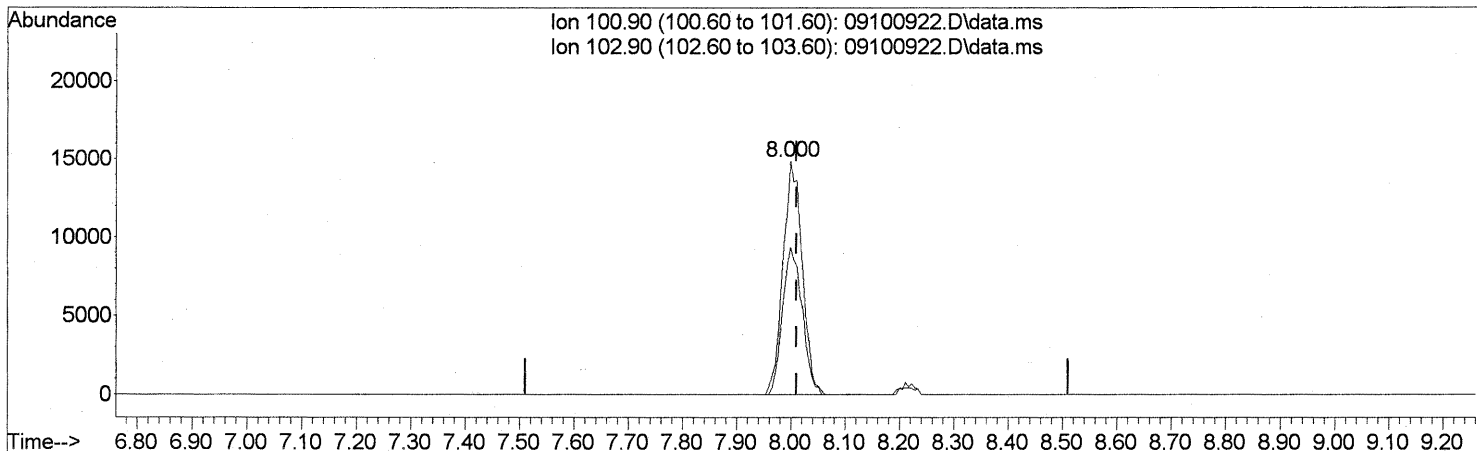
(13) Acetone (T)
 7.800min (-0.057) 128.94ng
 response 1626276

Ion	Exp%	Act%
58.00	100	100
43.00	331.30	384.64#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(14) Trichlorofluoromethane (T)

8.000min (-0.011) 1.21ng

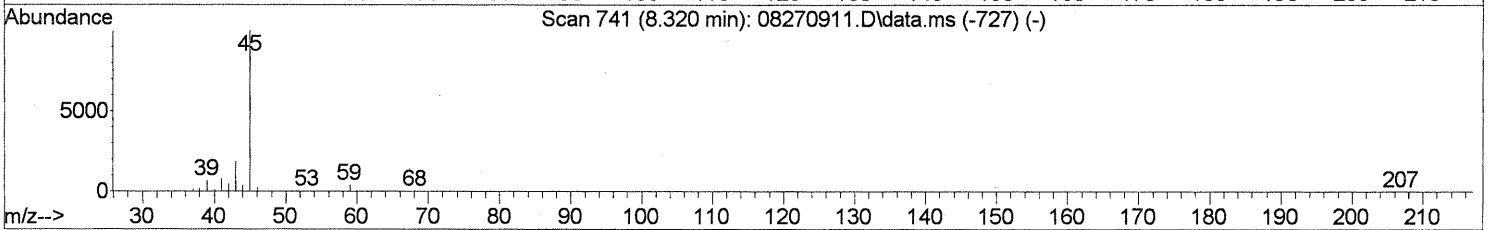
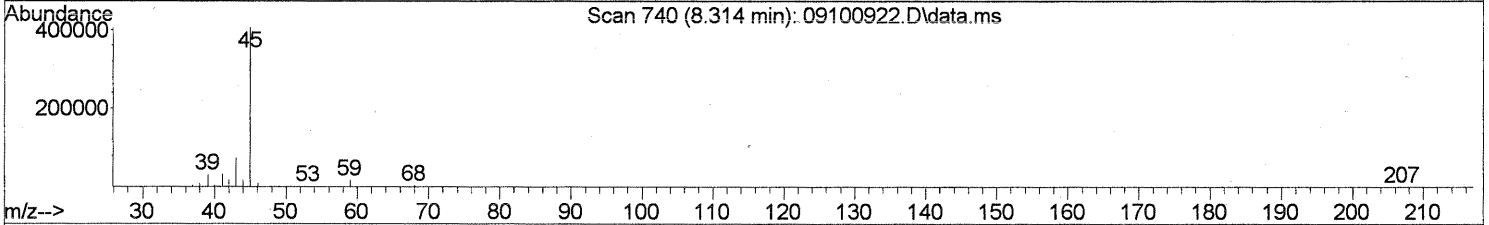
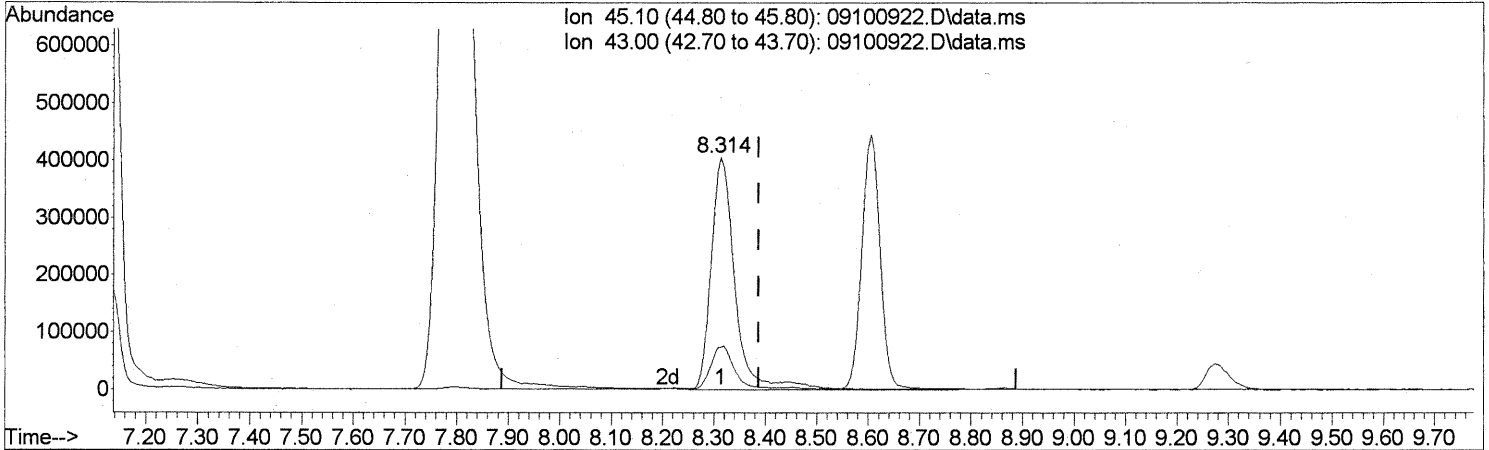
response 36619

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	64.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

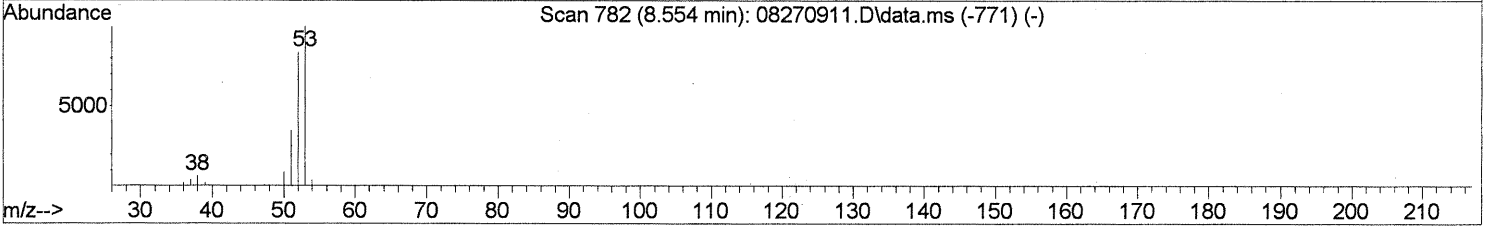
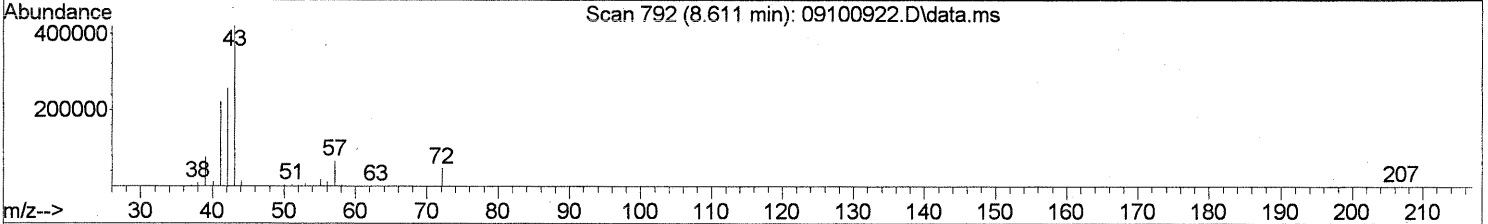
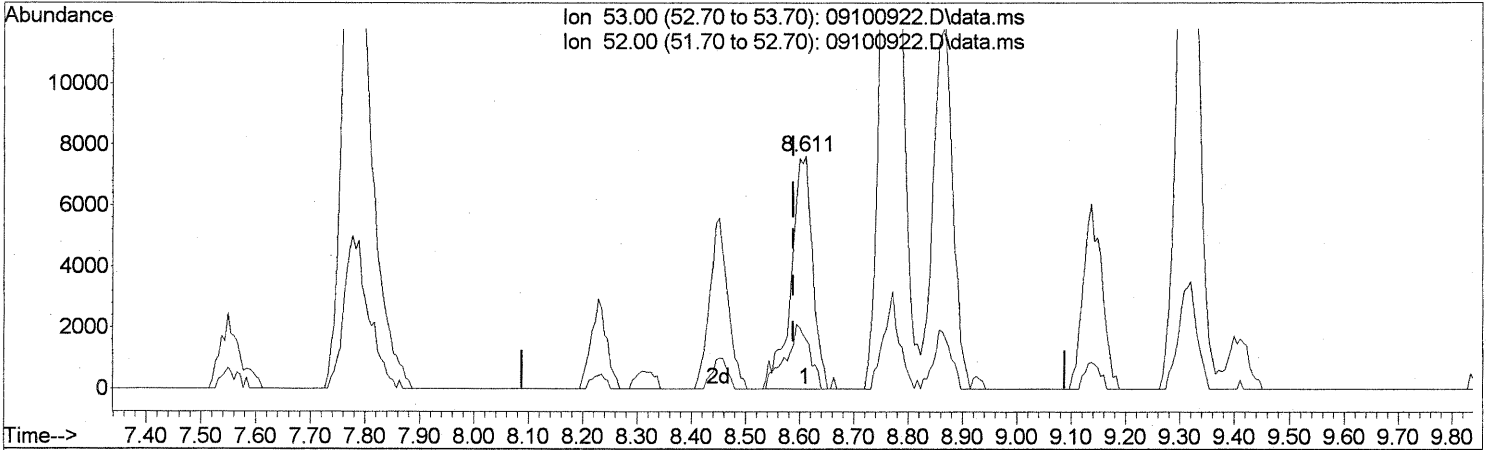
(15) 2-Propanol (Isopropanol) (T)
 8.314min (-0.074) 31.38ng
 response 1315854

Ion	Exp%	Act%
45.10	100	100
43.00	18.70	18.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(16) Acrylonitrile (T)
 8.611min (+0.023) 1.02ng
 response 21216

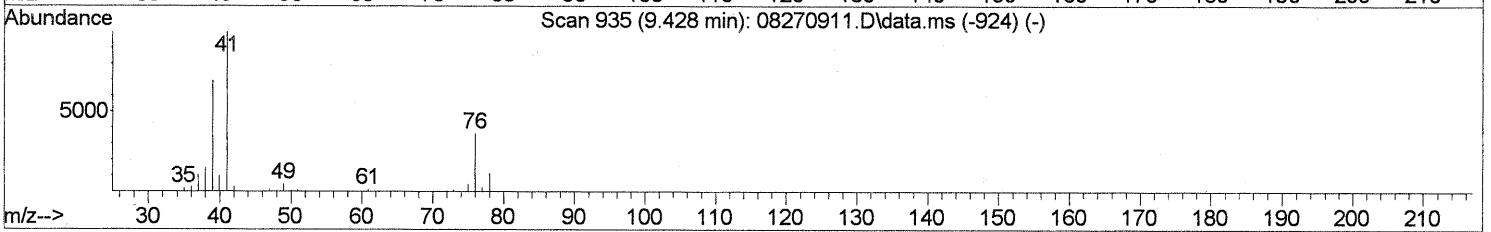
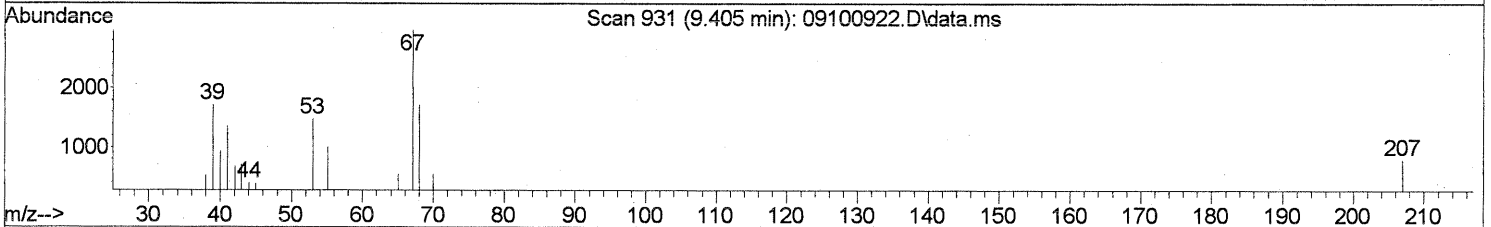
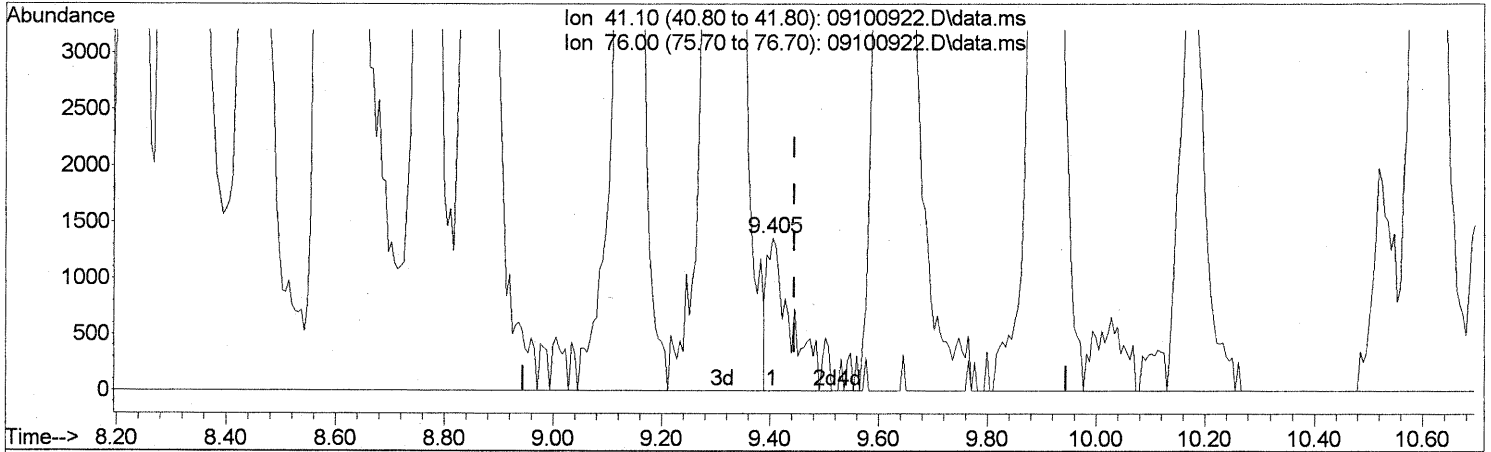
Ion	Exp%	Act%
53.00	100	100
52.00	80.50	30.68#
0.00	0.00	0.00
0.00	0.00	0.00

FP
1M 9/20/09
com 9/20/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

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

9.405min (-0.040) 0.16ng

response 4083

Ion	Exp%	Act%
41.10	100	100
76.00	33.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

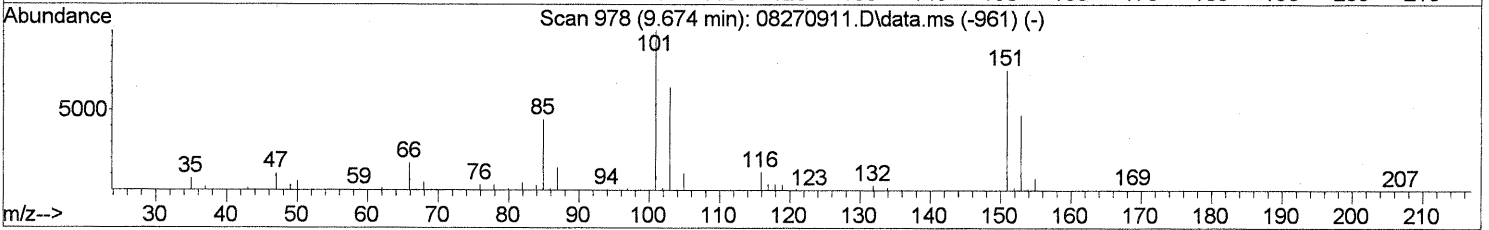
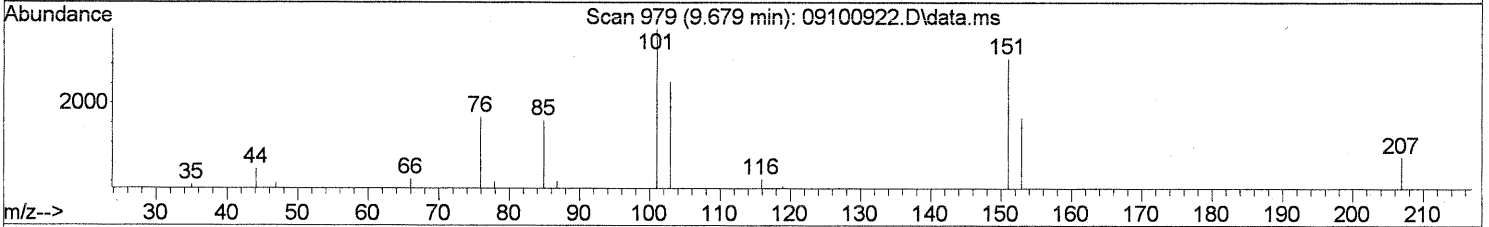
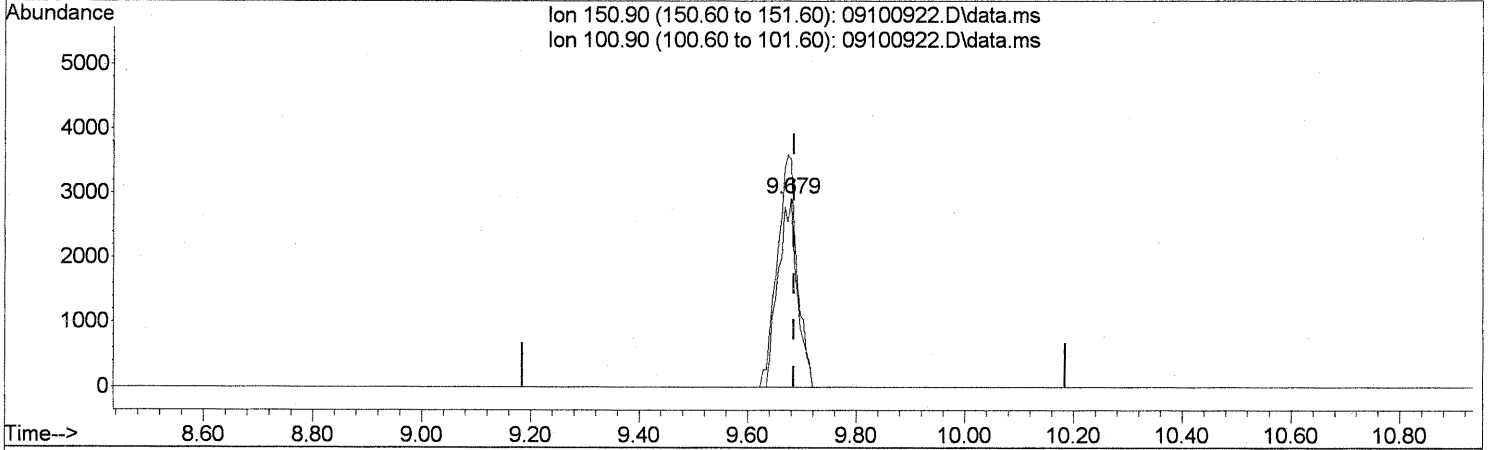
FP
 11/9/20/09

Com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.59ng

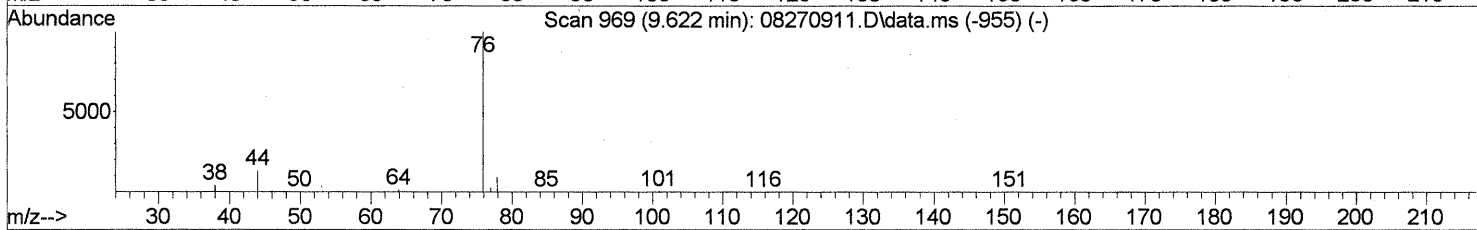
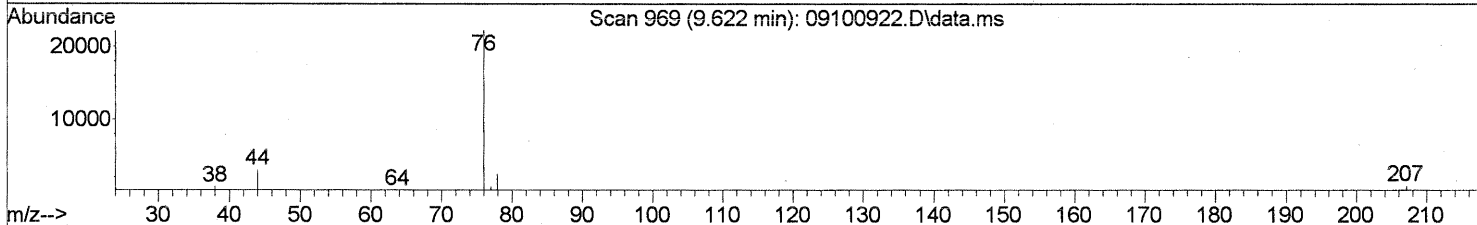
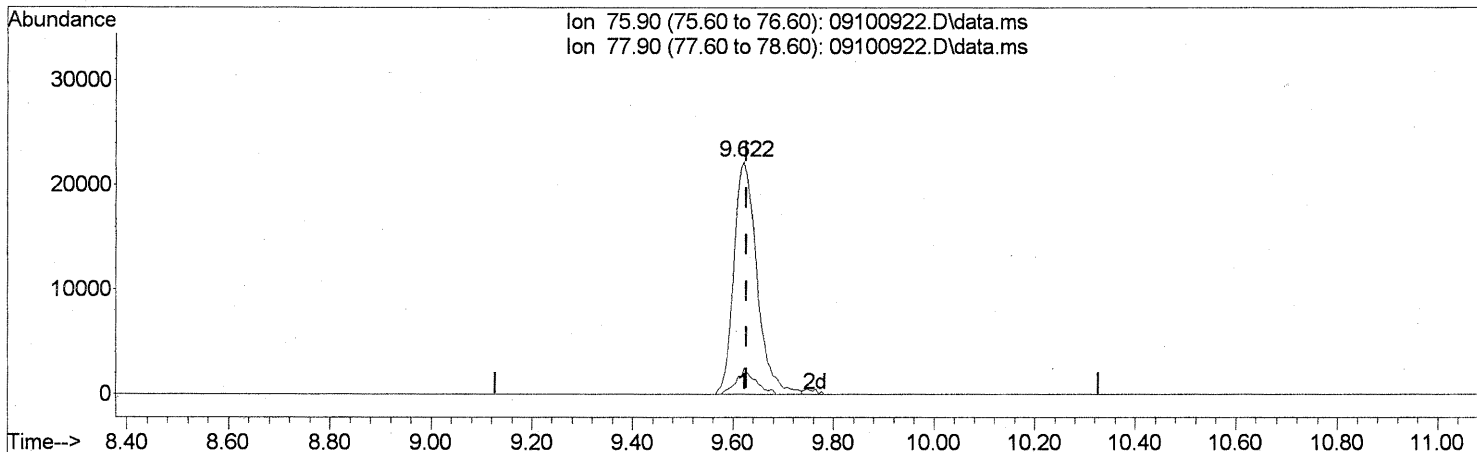
response 7139

Ion	Exp%	Act%
150.90	100	100
100.90	138.30	128.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(22) Carbon Disulfide (T)

9.622min (-0.006) 1.24ng

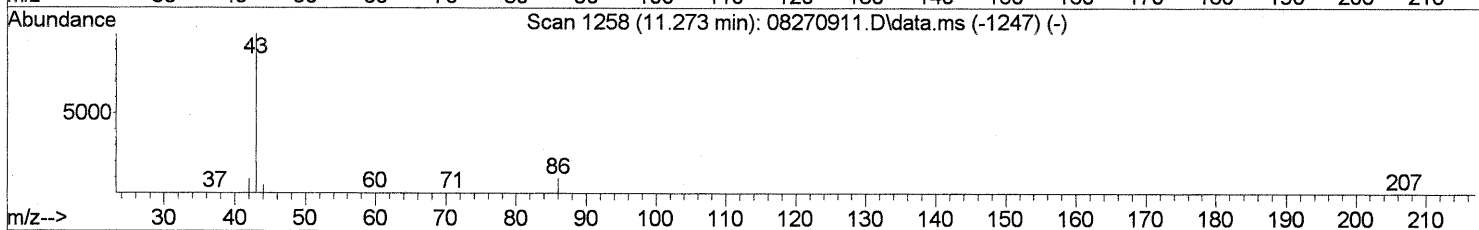
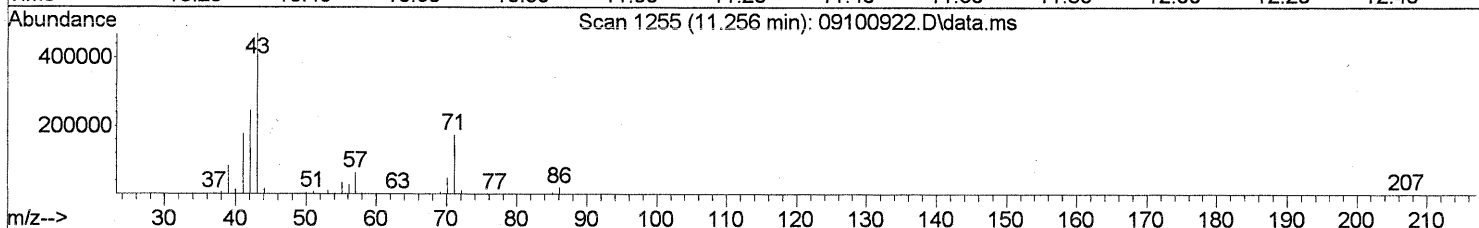
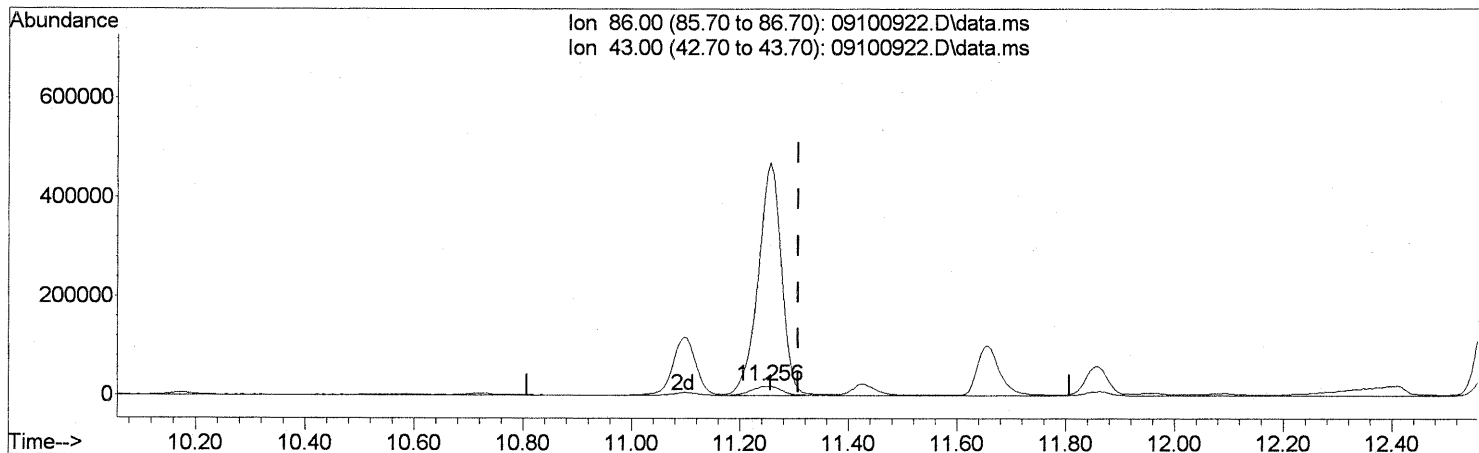
response 70559

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	9.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

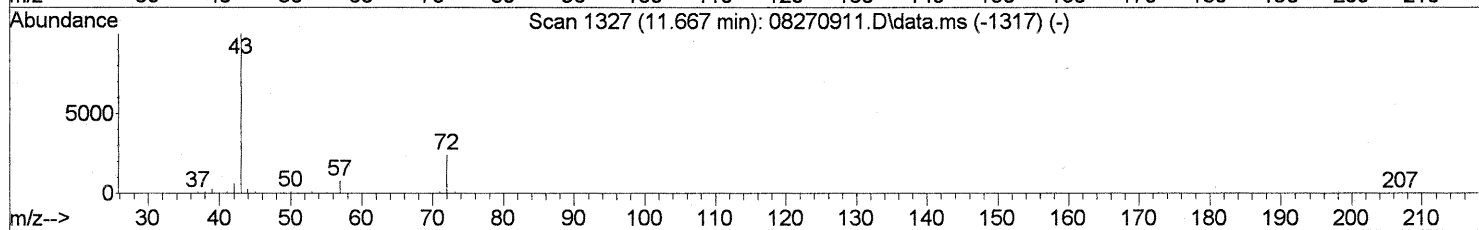
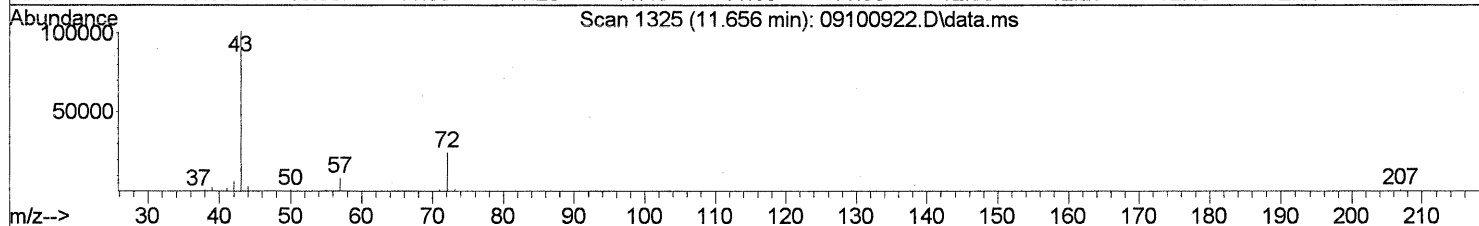
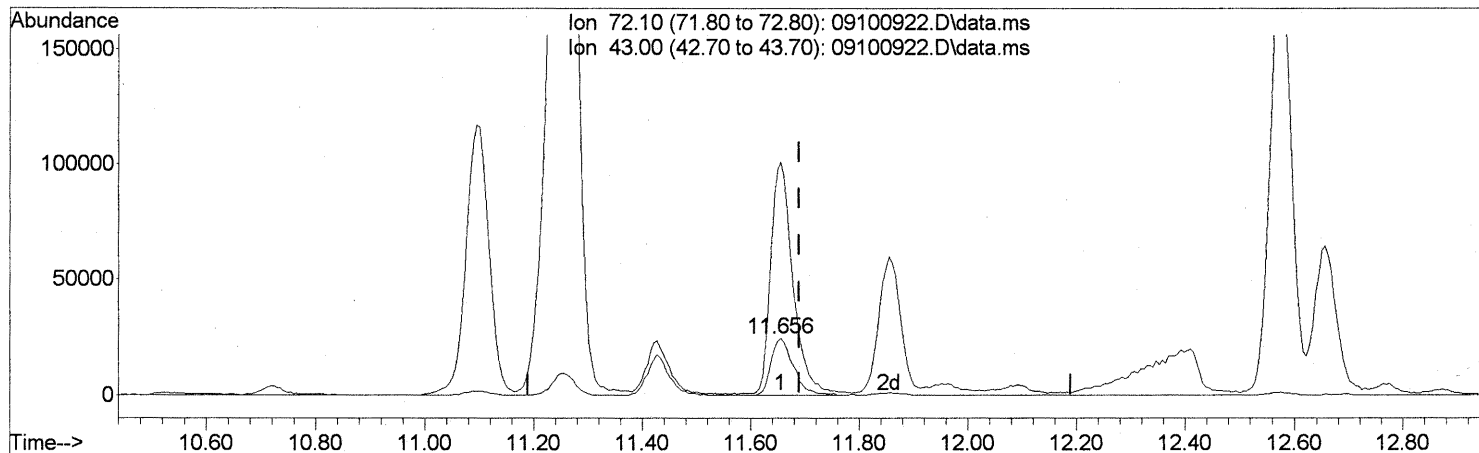
(26) Vinyl Acetate (T)		
11.256min (-0.051)	21.48ng	
response	67893	
Ion	Exp%	Act%
86.00	100	100
43.00	1118.60	2061.76#
0.00	0.00	0.00
0.00	0.00	0.00

FP
 LM 9/20/09
 Lem 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

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

11.656min (-0.034) 6.85ng

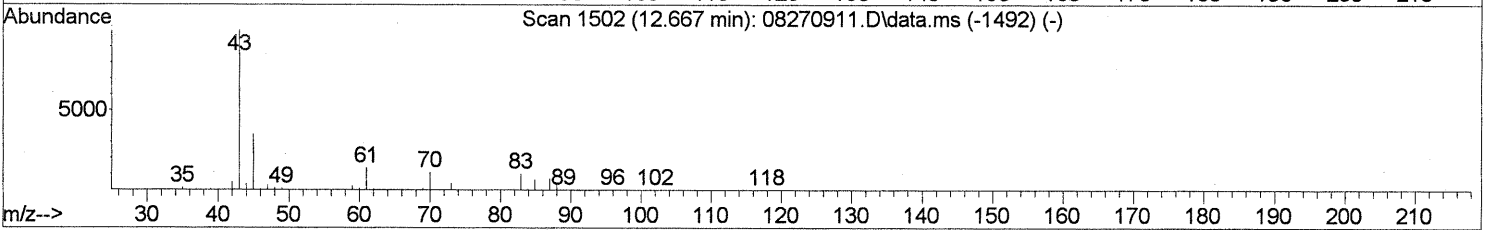
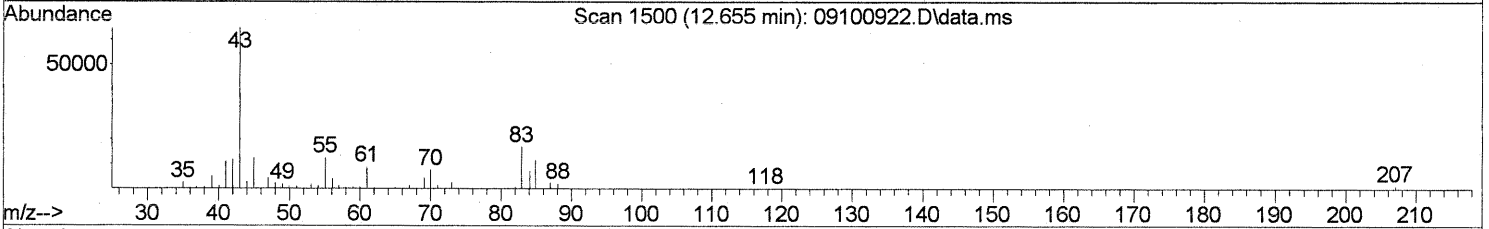
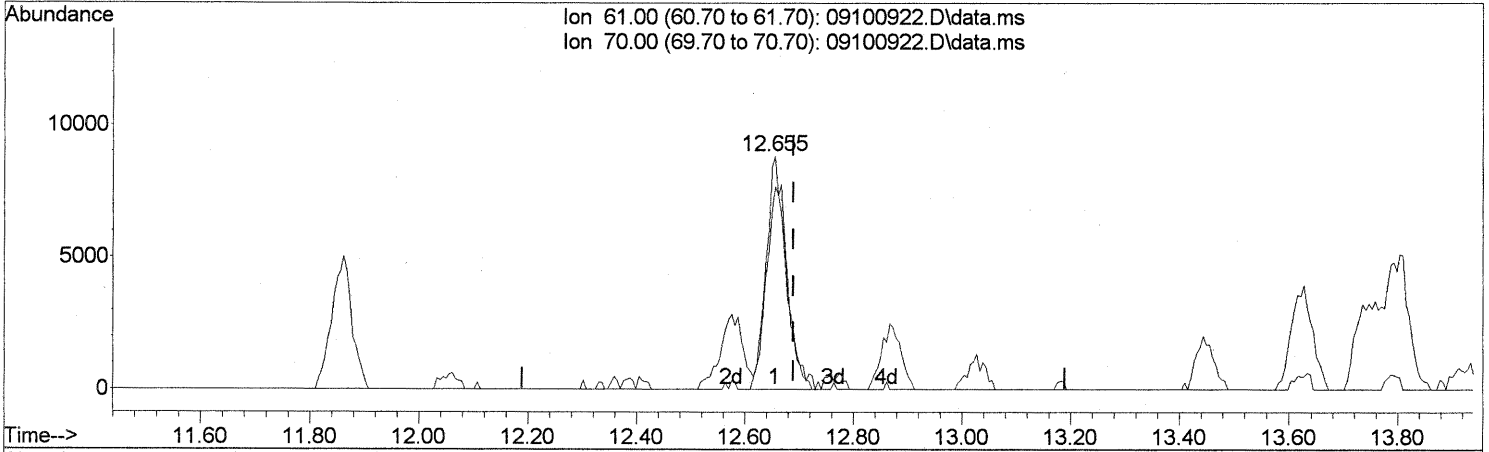
response 69737

Ion	Exp%	Act%
72.10	100	100
43.00	424.60	409.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

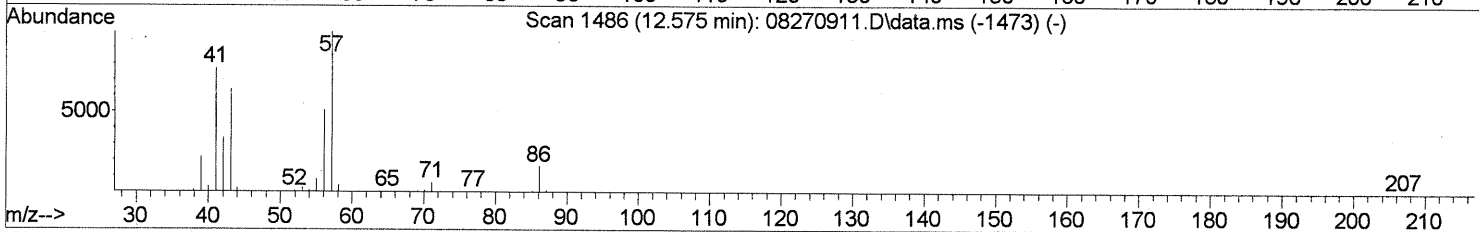
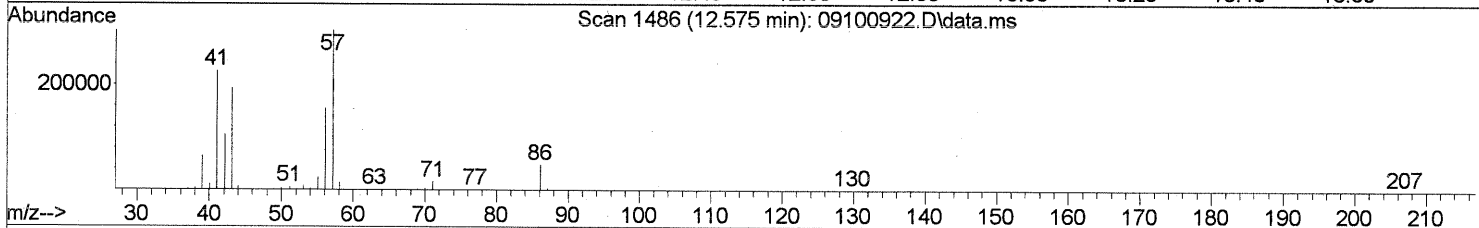
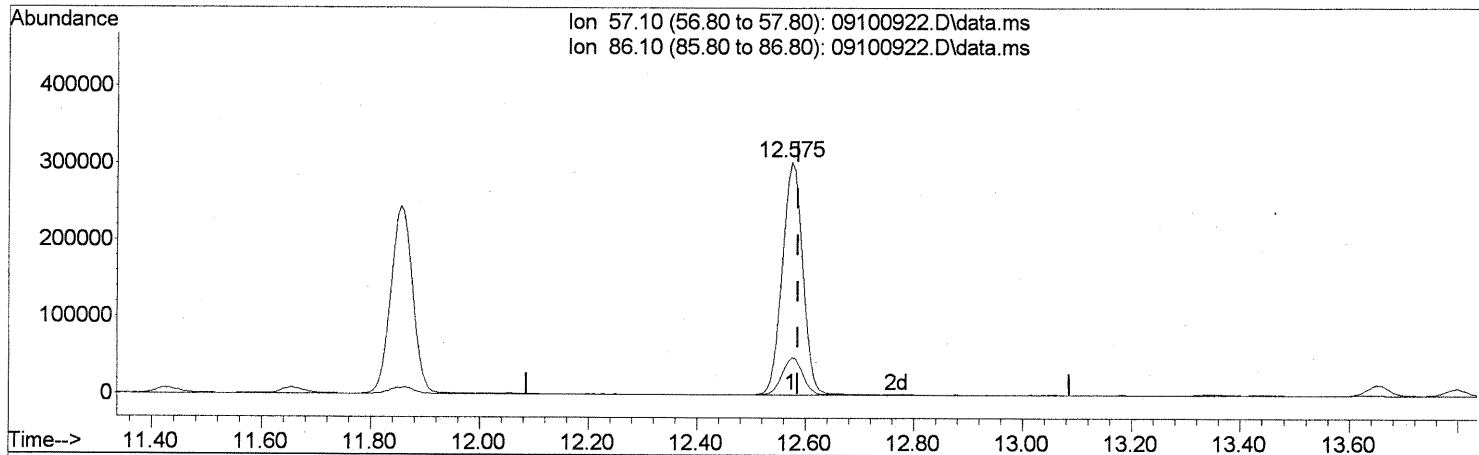
(30) Ethyl Acetate (T)
 12.655min (-0.034) 4.22ng
 response 23087

Ion	Exp%	Act%
61.00	100	100
70.00	78.70	90.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

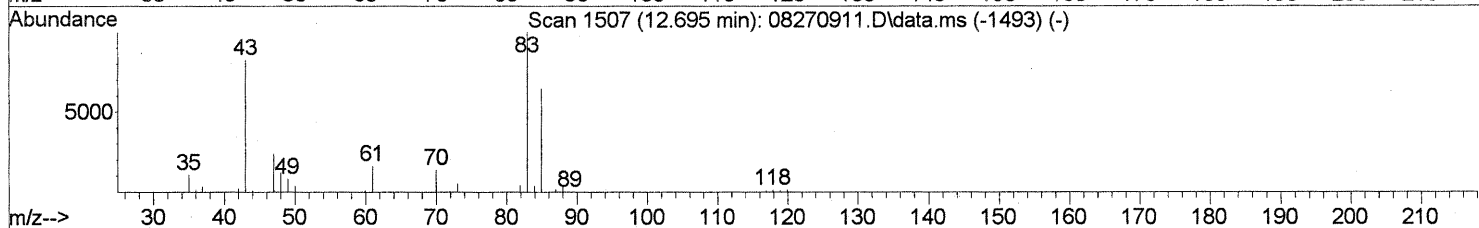
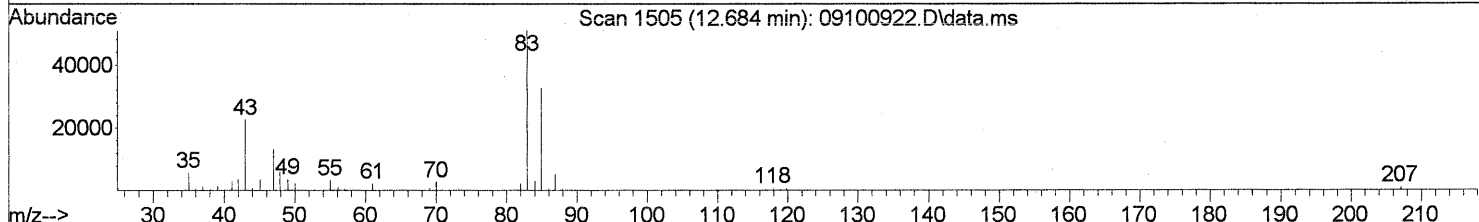
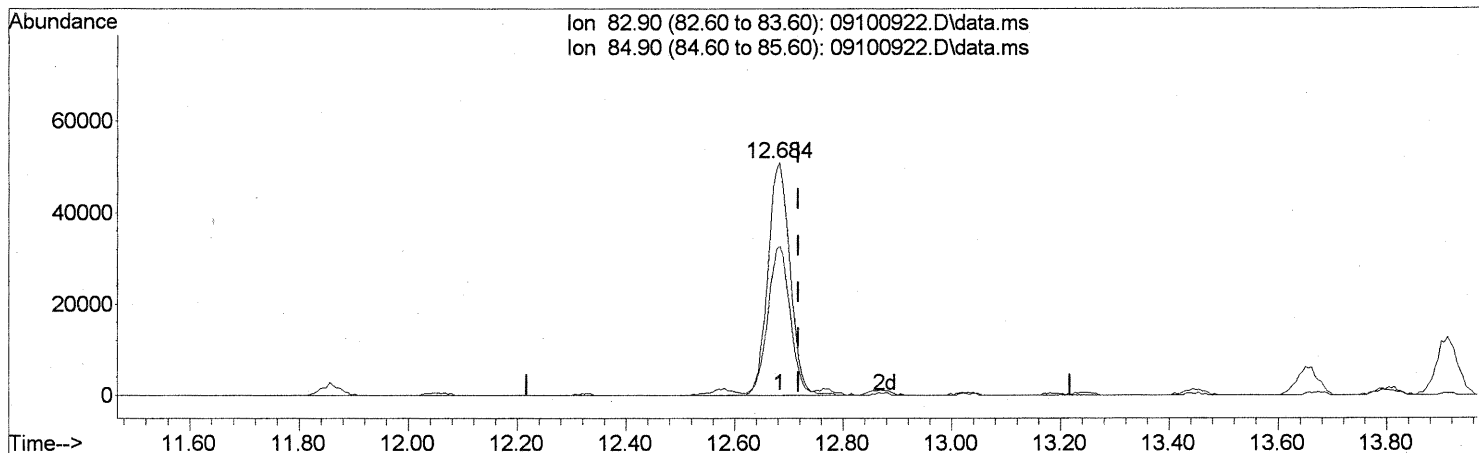
(31) n-Hexane (T)
 12.575min (-0.011) 29.02ng
 response 791492

Ion	Exp%	Act%
57.10	100	100
86.10	15.40	15.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



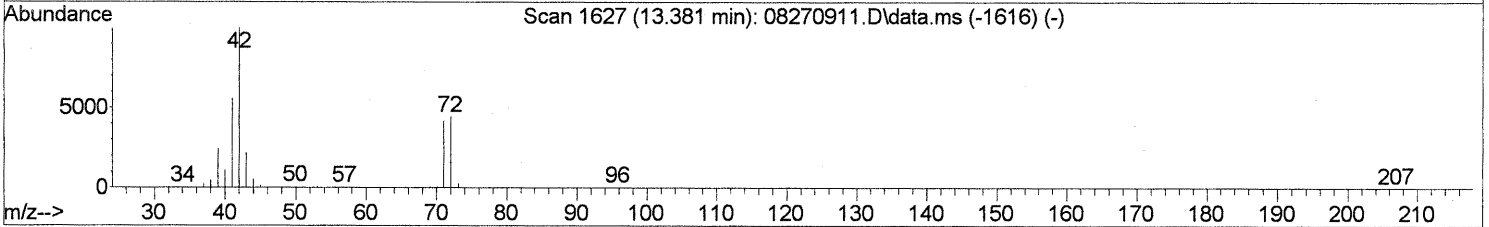
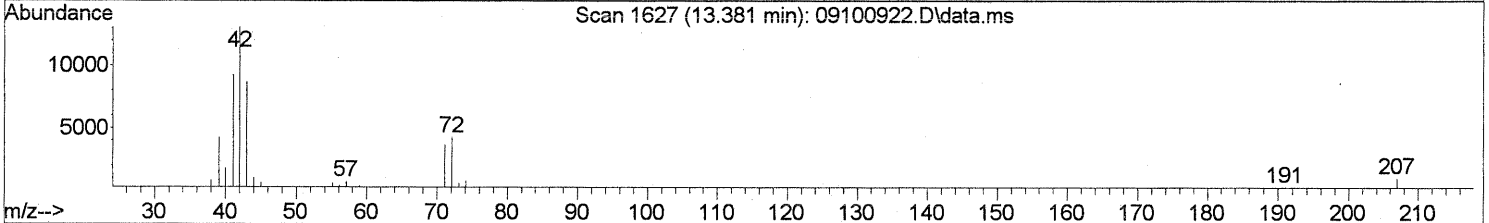
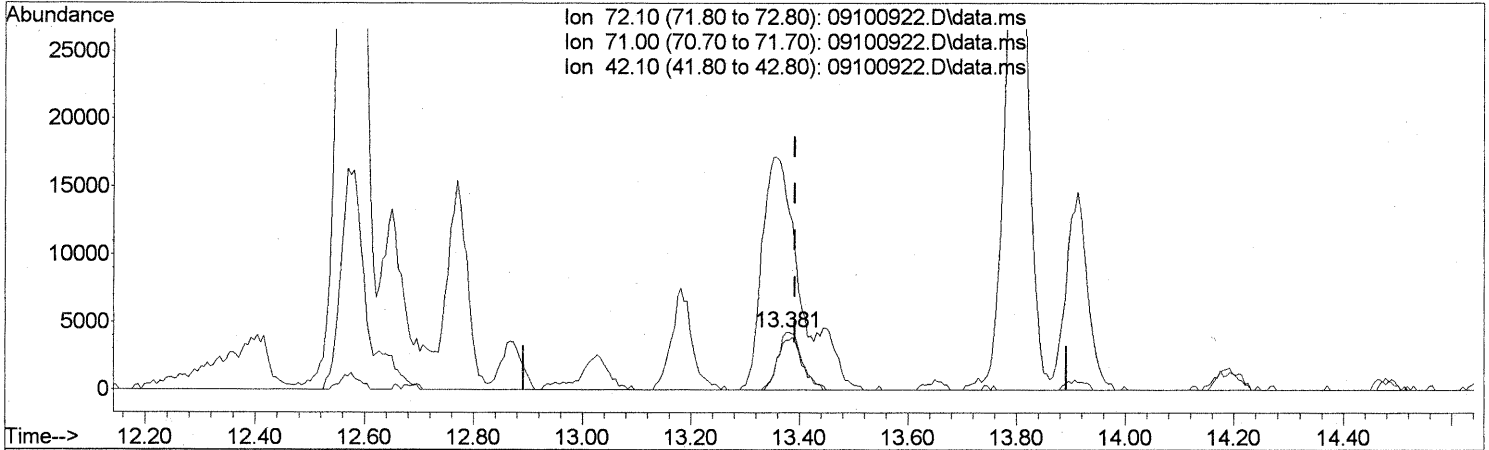
TIC: 09100922.D\data.ms

(32) Chloroform (T)		
12.684min (-0.034)	5.33ng	
response	143393	
Ion	Exp%	Act%
82.90	100	100
84.90	62.60	65.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(34) Tetrahydrofuran (THF) (T)

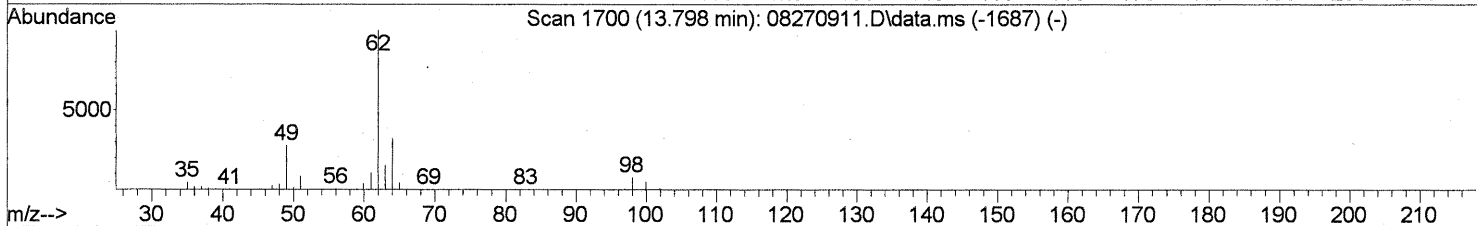
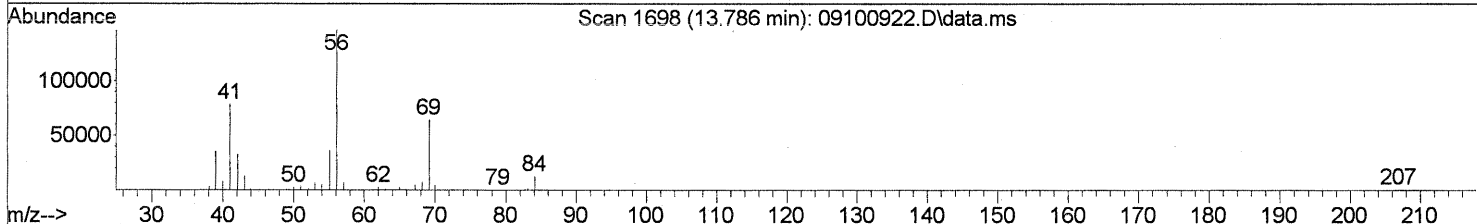
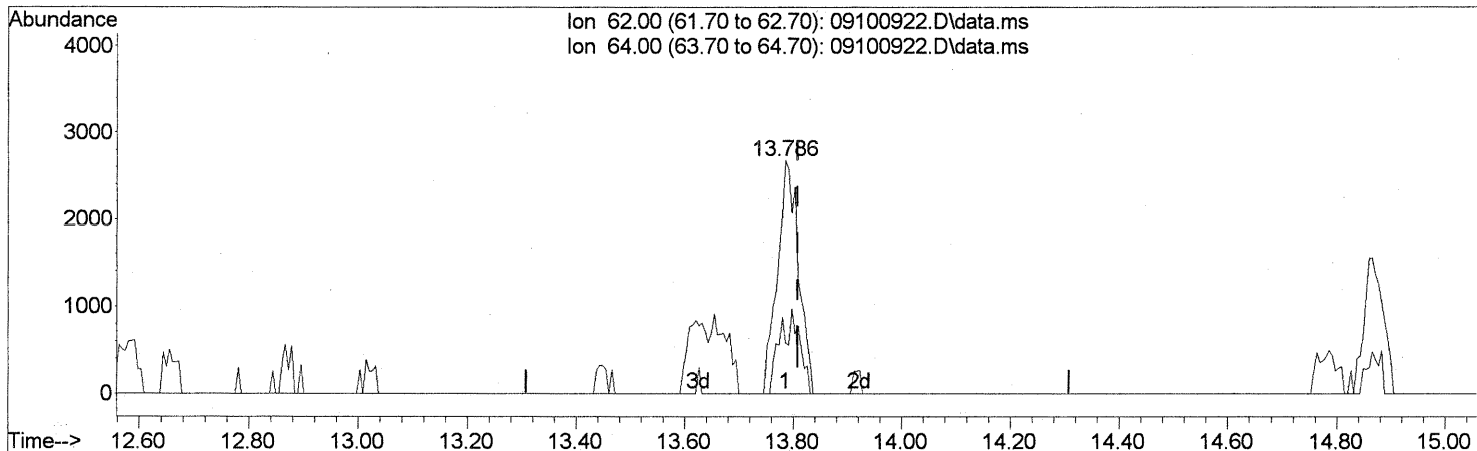
13.381min (-0.011) 1.18ng
 response 13028

Ion	Exp%	Act%
72.10	100	100
71.00	92.50	92.45
42.10	254.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(36) 1,2-Dichloroethane (T)

13.786min (-0.023) 0.32ng

response 7192

Ion	Exp%	Act%
62.00	100	100
64.00	33.10	16.67
0.00	0.00	0.00
0.00	0.00	0.00

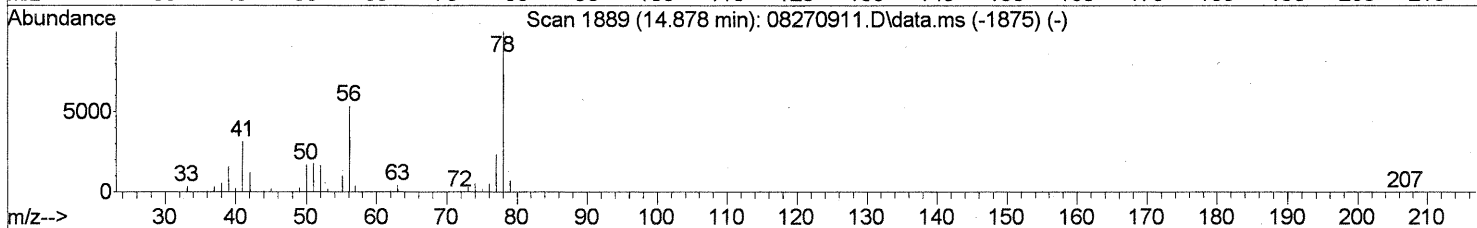
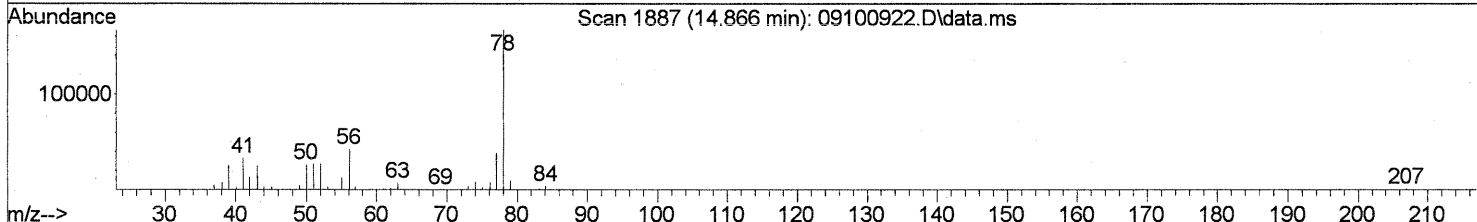
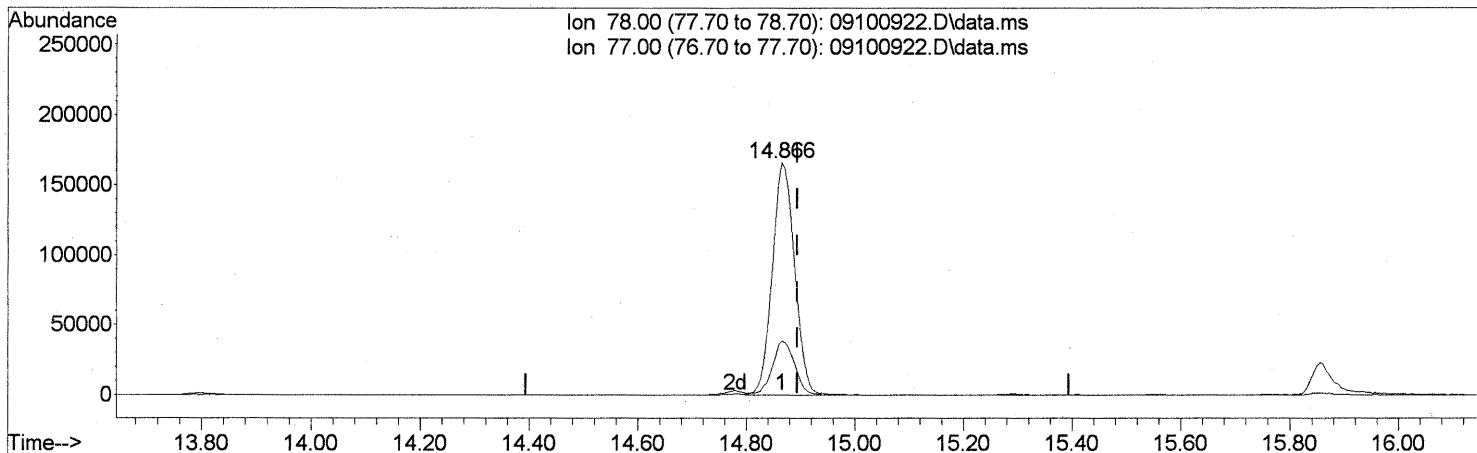
FP
11/9/20/09

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Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

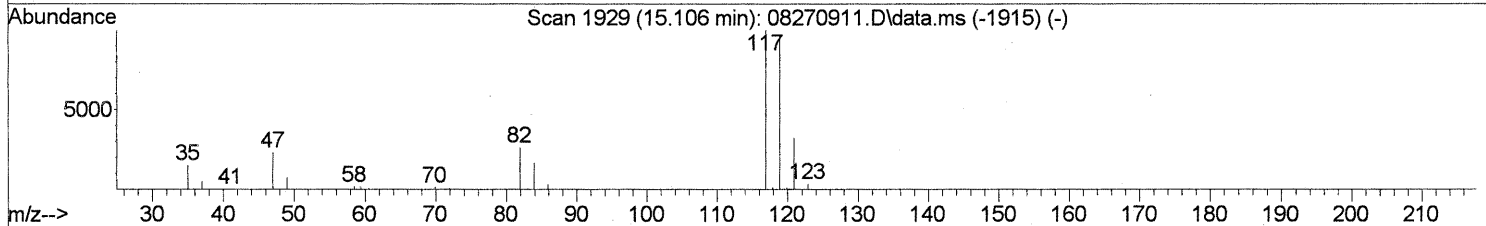
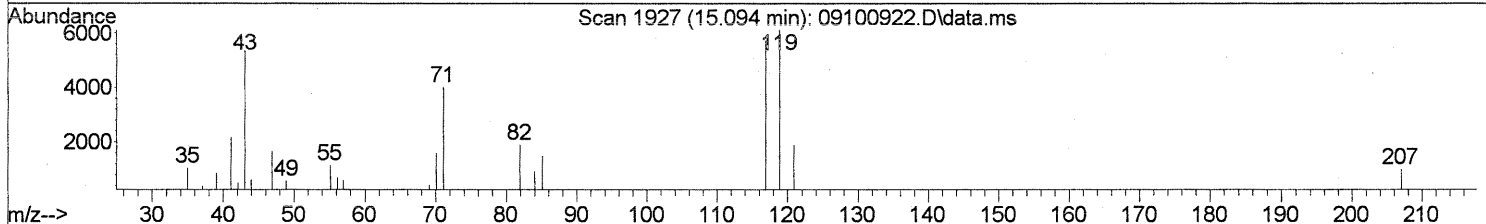
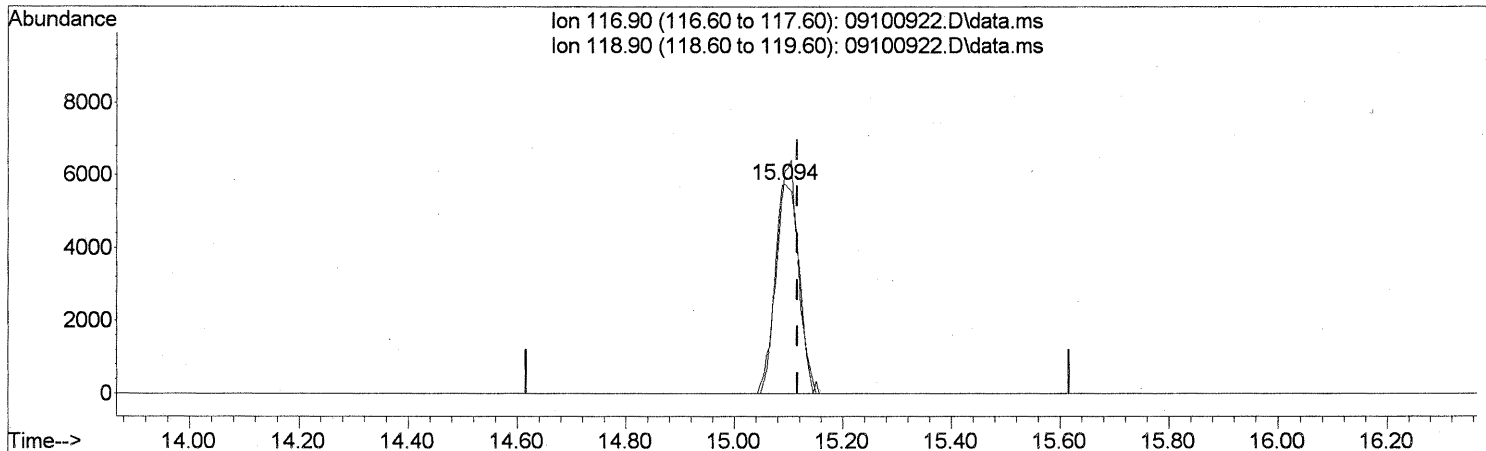
(41) Benzene (T)
 14.866min (-0.029) 7.44ng
 response 473022

Ion	Exp%	Act%
78.00	100	100
77.00	23.20	22.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

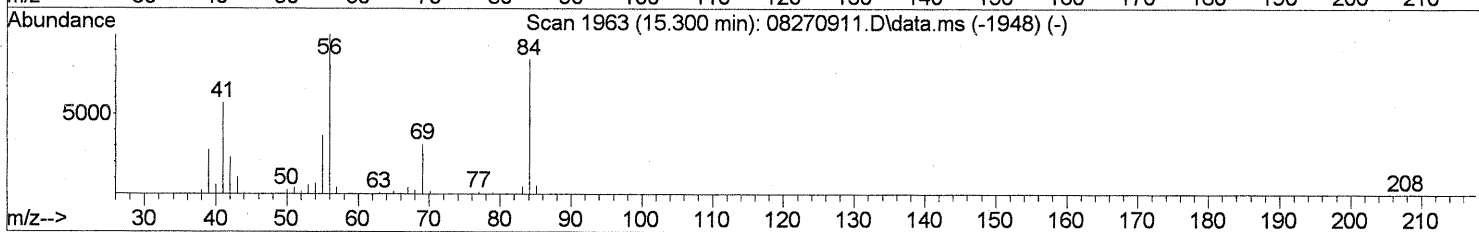
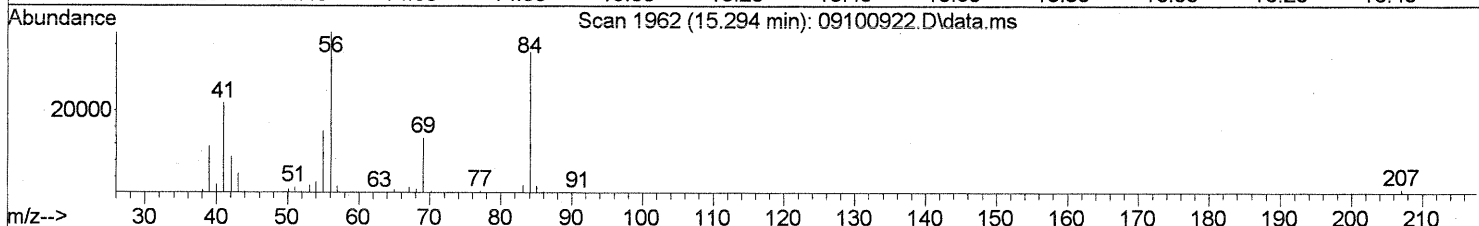
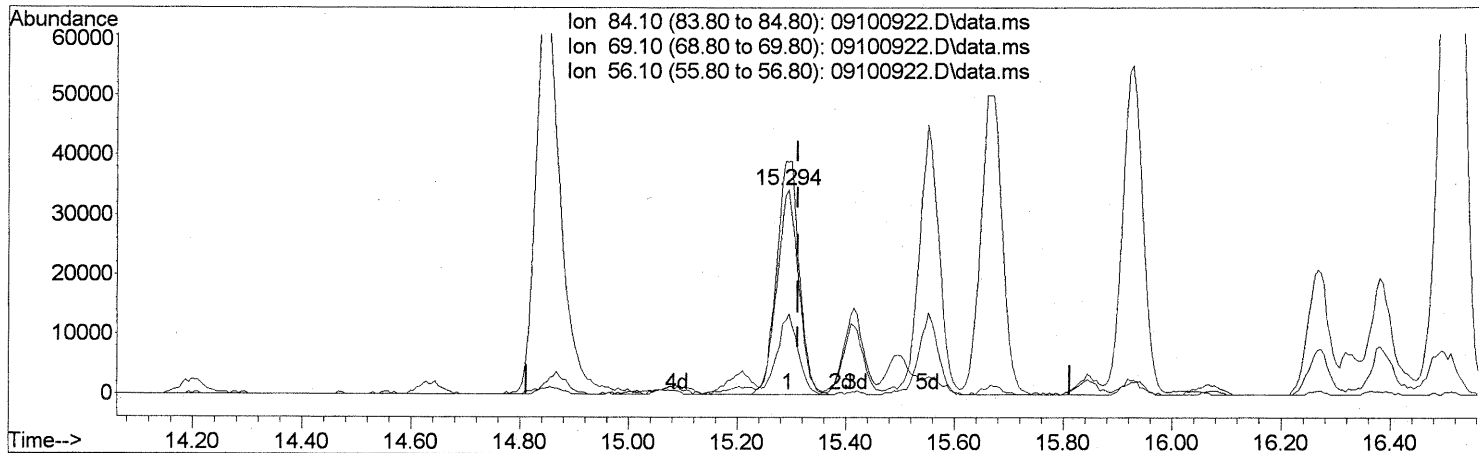
(42) Carbon Tetrachloride (T)
 15.094min (-0.023) 0.82ng
 response 17597

Ion	Exp%	Act%
116.90	100	100
118.90	96.20	101.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

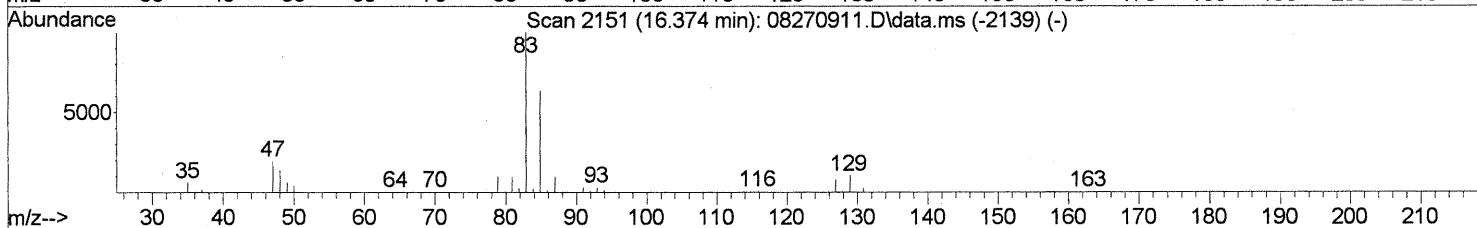
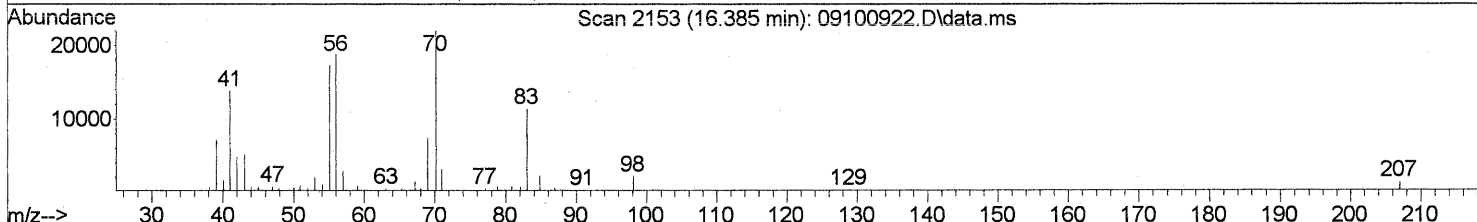
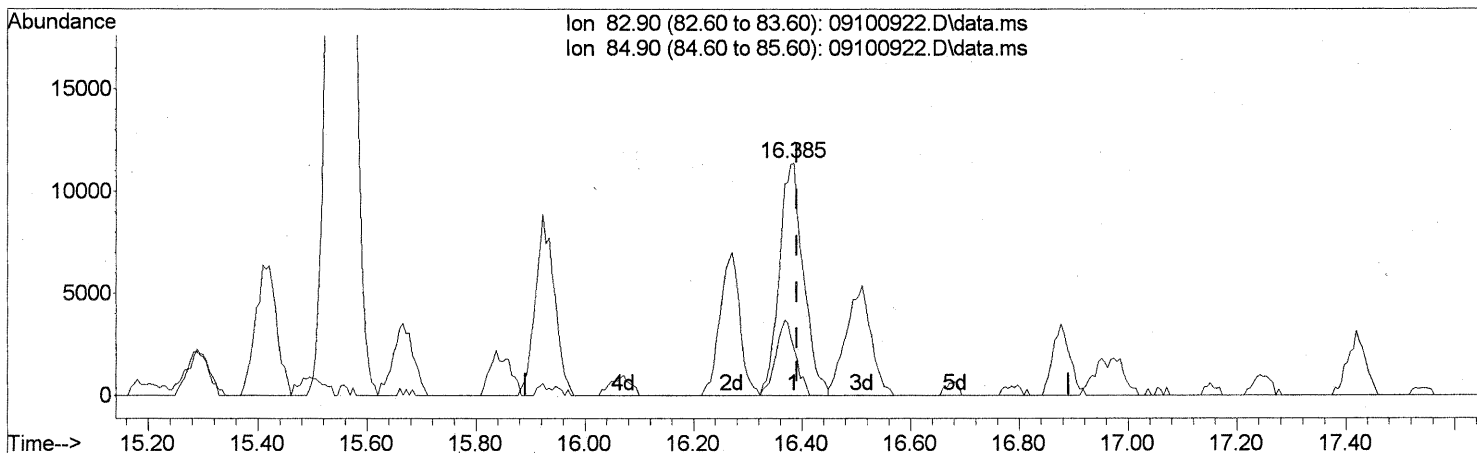
(43) Cyclohexane (T)
 15.294min (-0.017) 4.09ng
 response 95727

Ion	Exp%	Act%
84.10	100	100
69.10	38.90	37.46
56.10	124.50	116.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

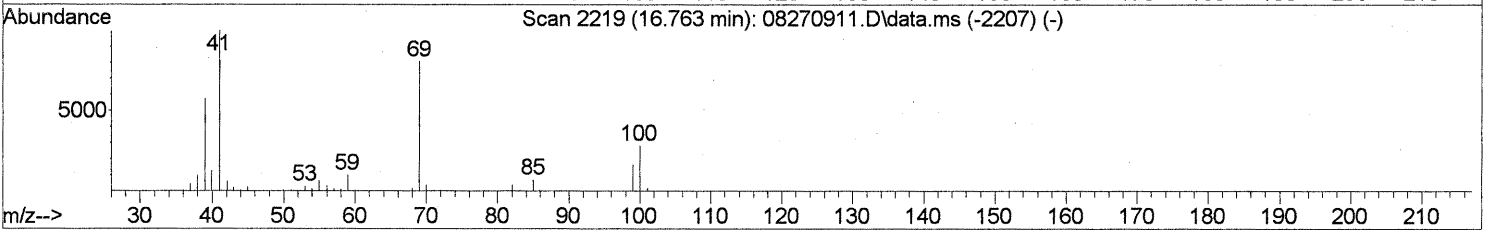
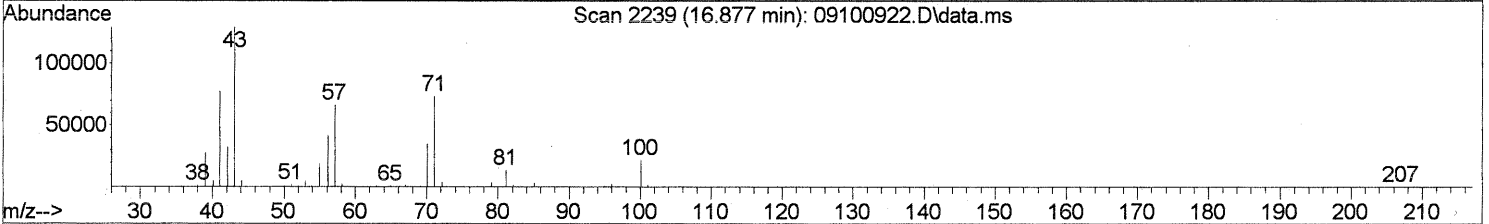
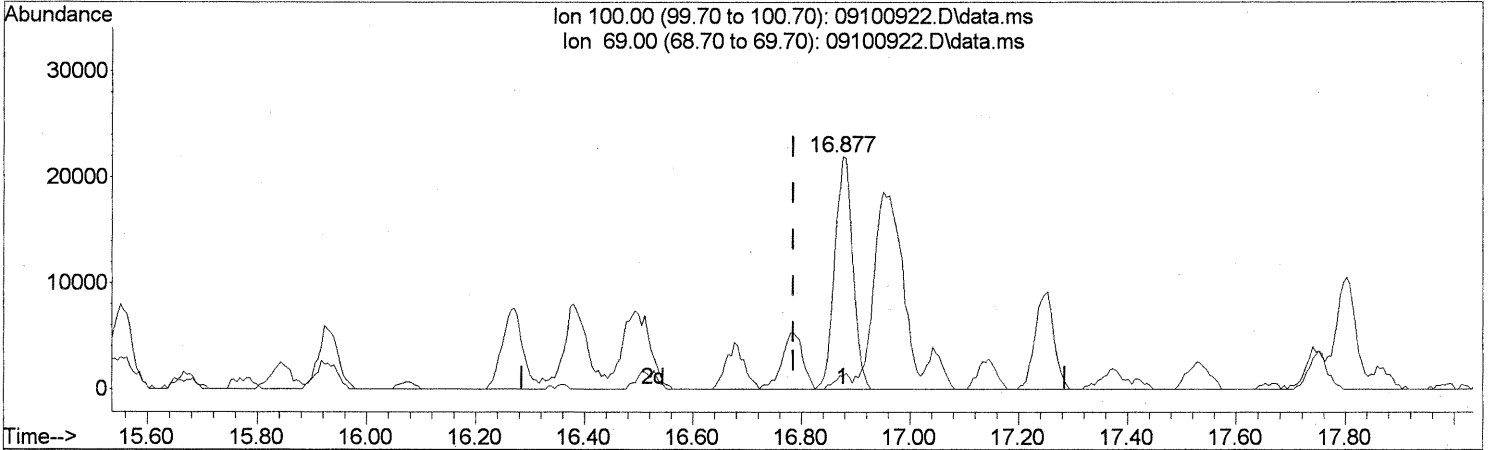
(46) Bromodichloromethane (T)
 16.385min (-0.006) 1.69ng
 response 35345

Ion	Exp%	Act%
82.90	100	100
84.90	64.50	25.81#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(50) Methyl Methacrylate (T)

16.877min (+0.091) 8.68ng

response 51126

Ion	Exp%	Act%
100.00	100	100
69.00	293.60	5.35#
0.00	0.00	0.00
0.00	0.00	0.00

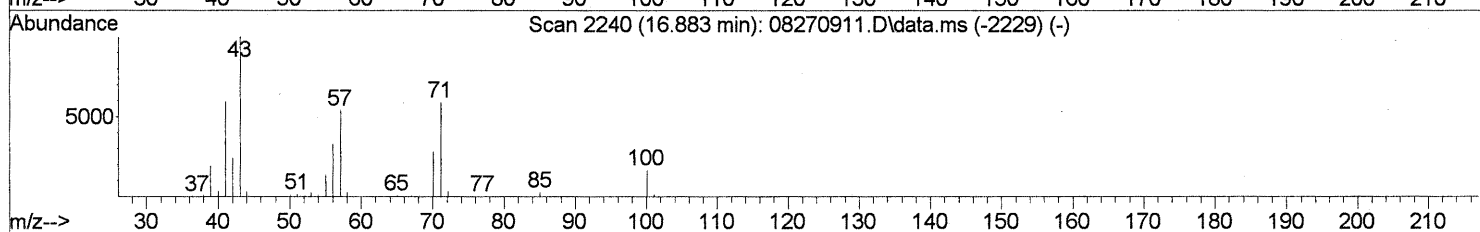
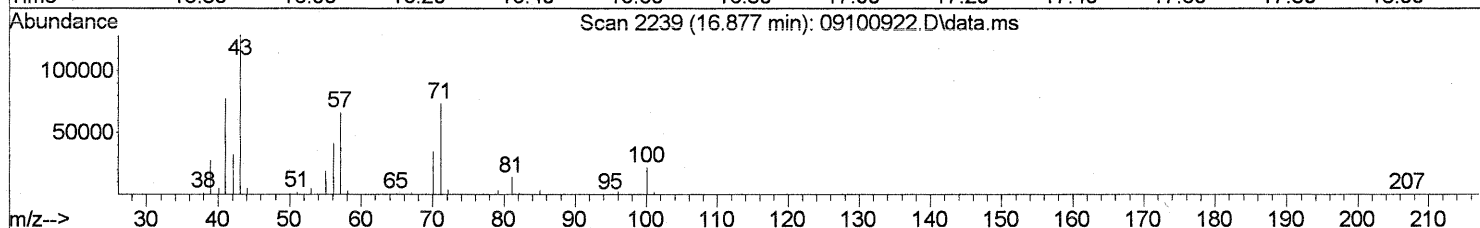
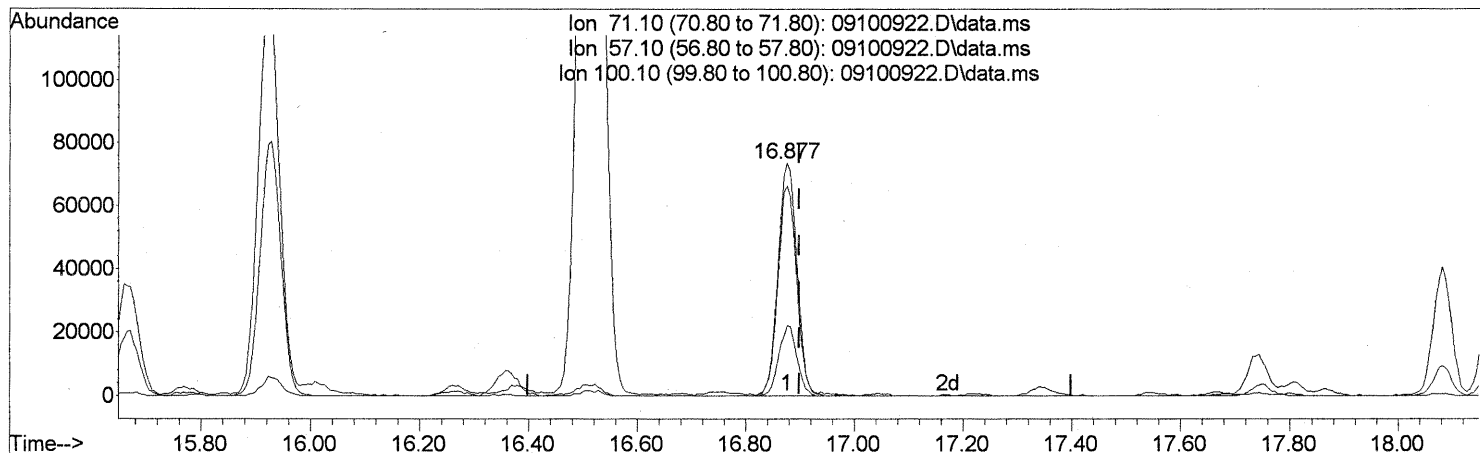
FP
 11/9/2009

com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

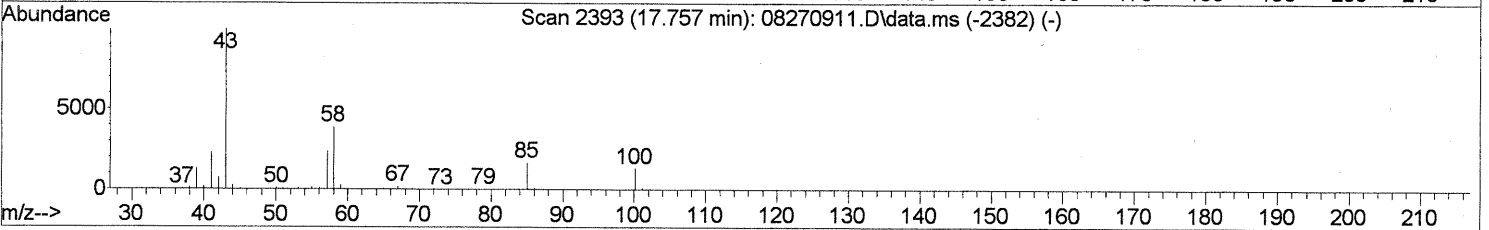
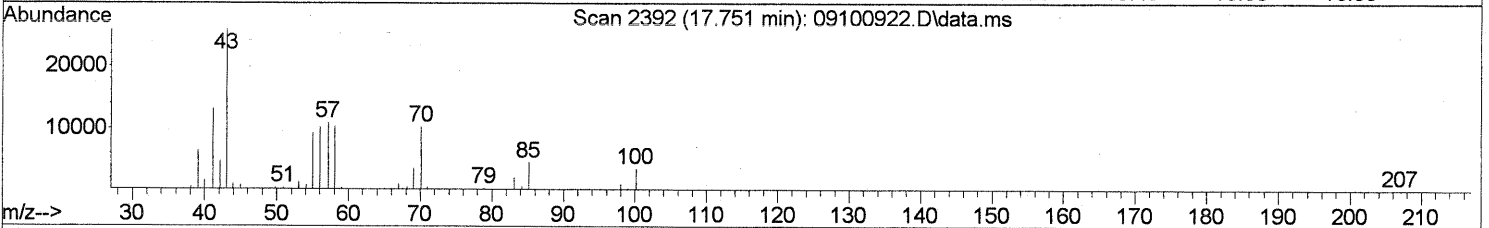
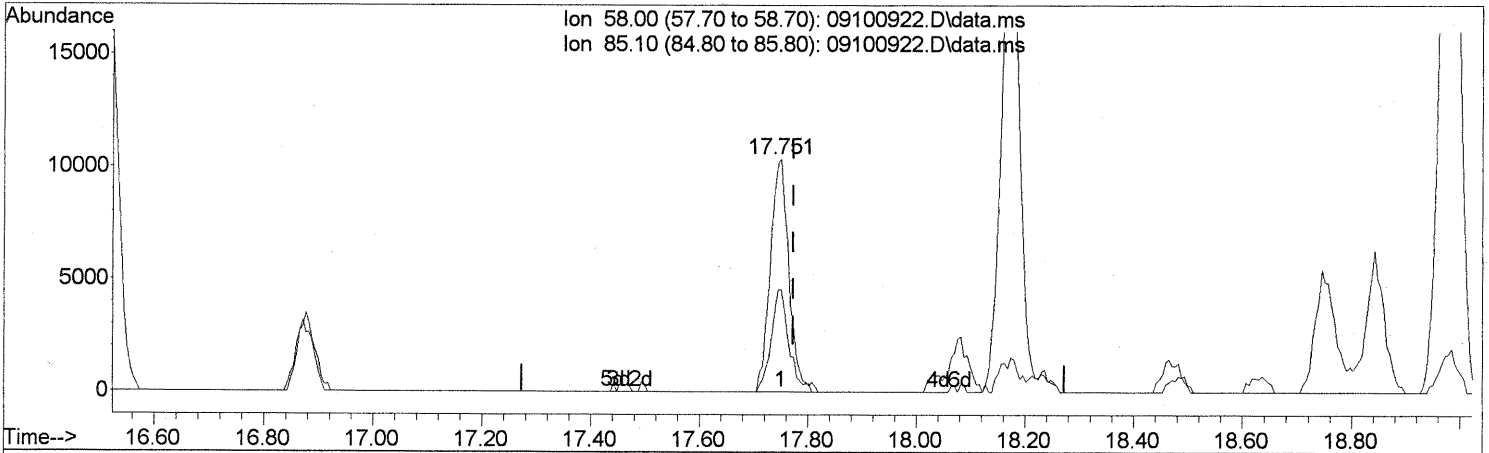
(51) n-Heptane (T)
 16.877min (-0.023) 10.75ng
 response 177131

Ion	Exp%	Act%
71.10	100	100
57.10	89.80	91.14
100.10	22.00	28.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

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

17.751min (-0.023) 1.71ng

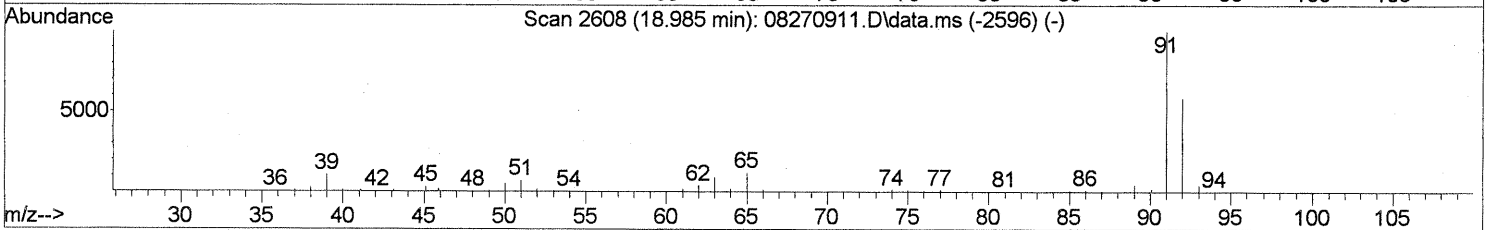
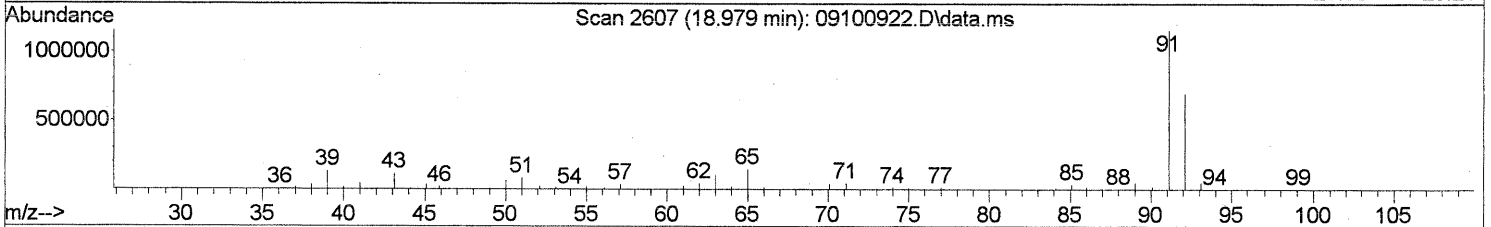
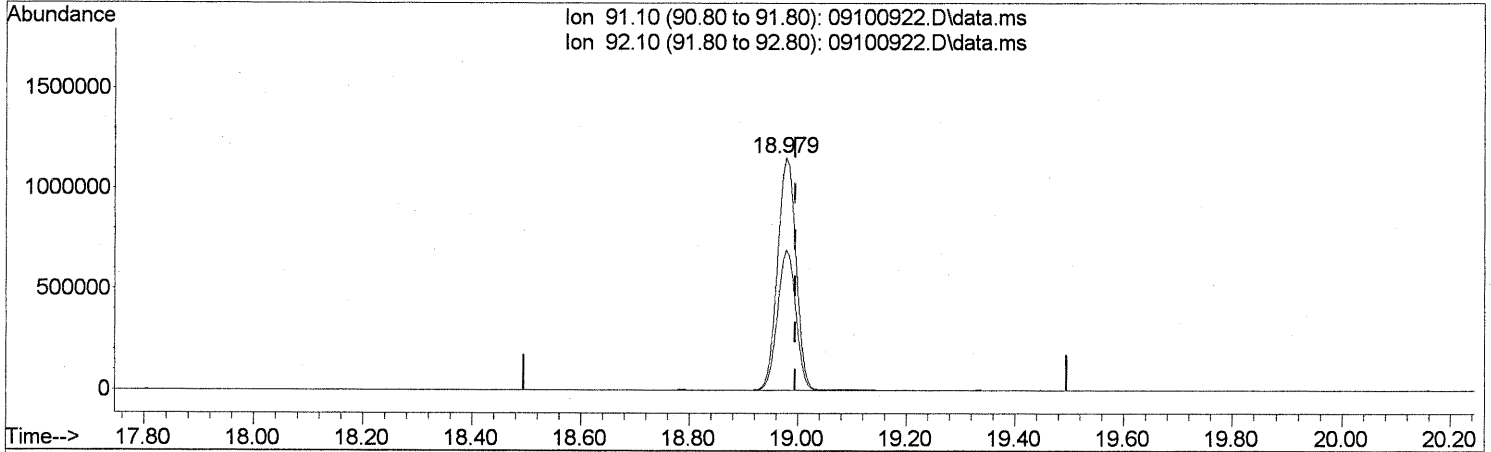
response 24790

Ion	Exp%	Act%
58.00	100	100
85.10	42.40	41.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

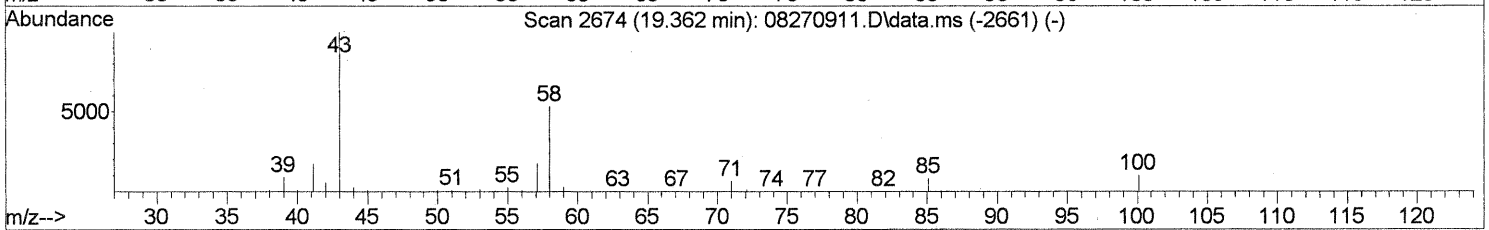
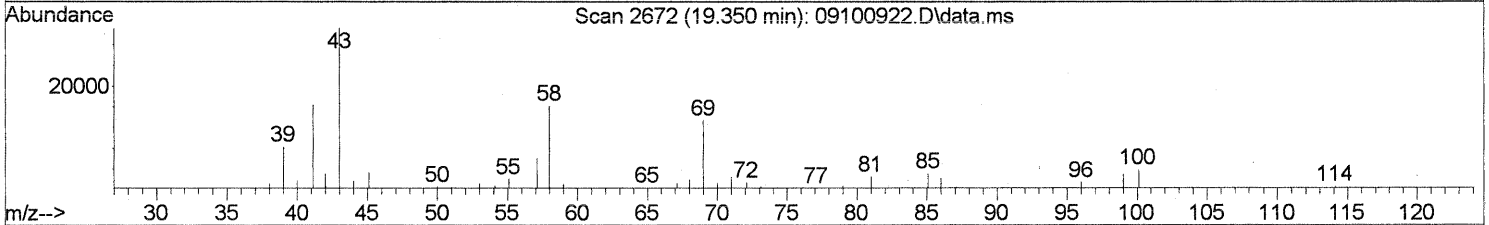
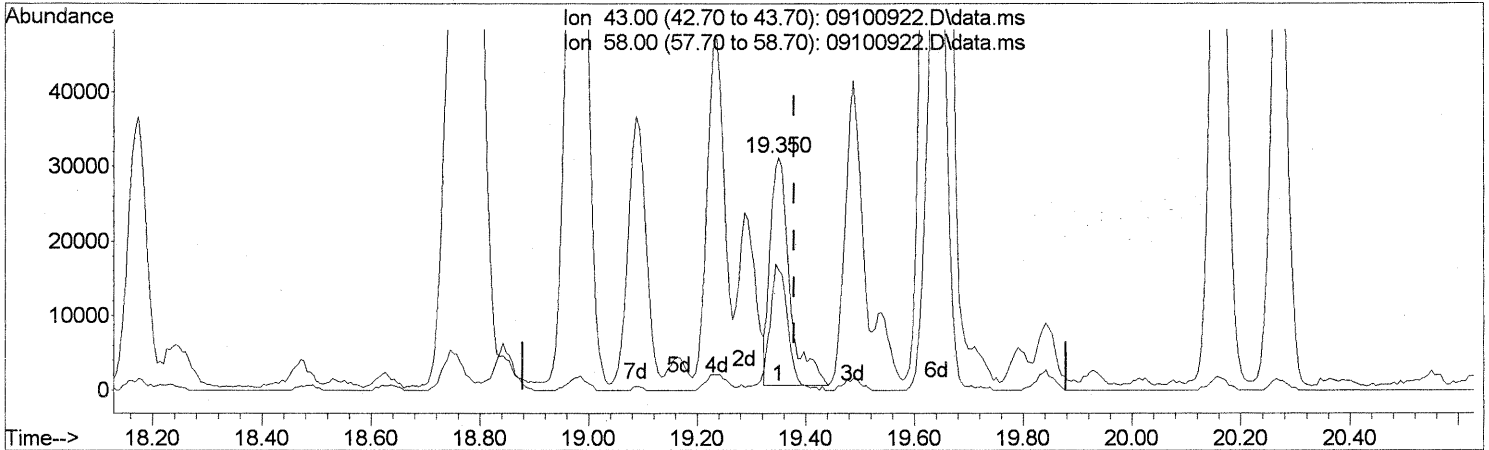
(58) Toluene (T)
 18.979min (-0.017) 41.08ng
 response 2720635

Ion	Exp%	Act%
91.10	100	100
92.10	58.80	59.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(59) 2-Hexanone (T)
 19.350min (-0.029) 1.91ng
 response 77215

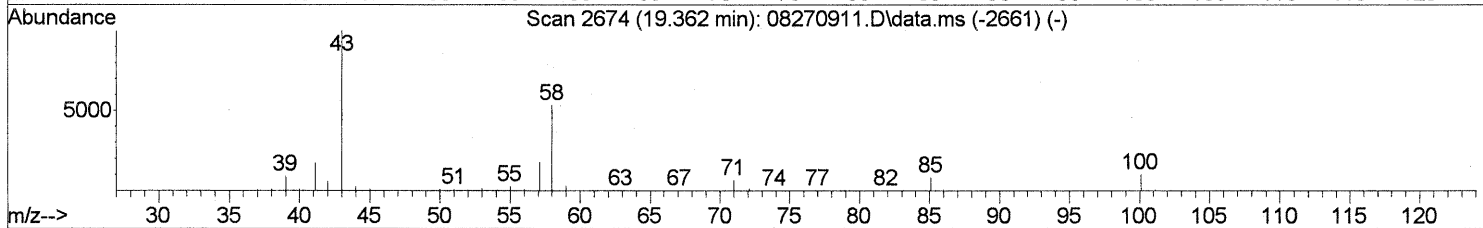
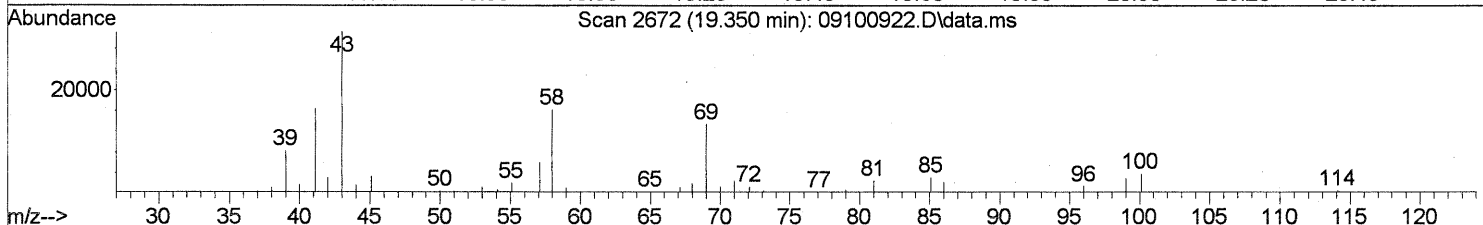
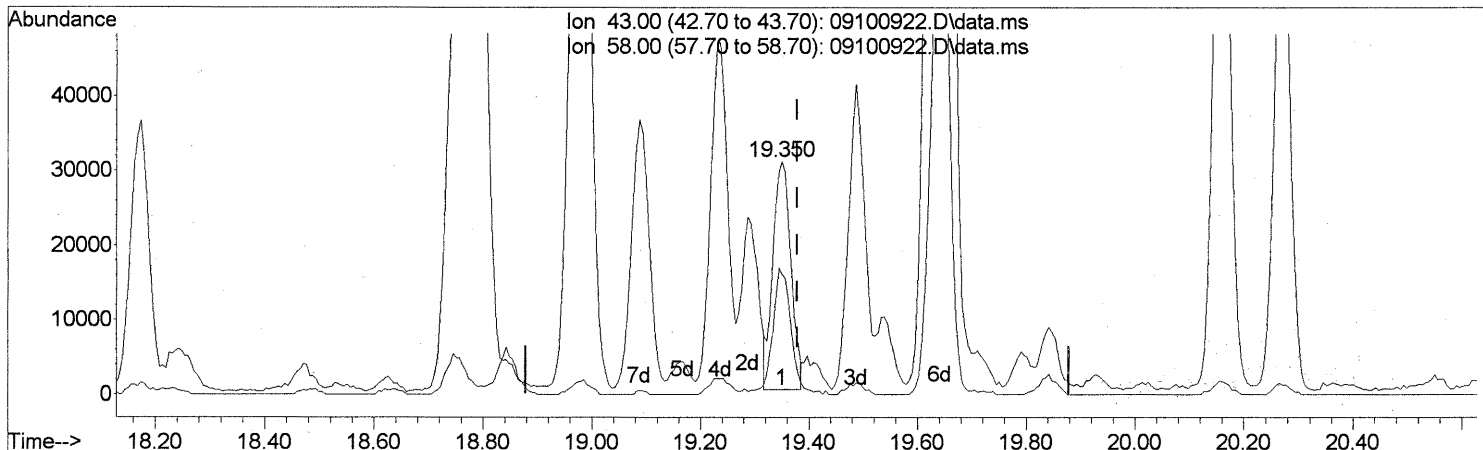
Ion	Exp%	Act%
43.00	100	100
58.00	51.70	51.49
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(59) 2-Hexanone (T)
 19.350min (-0.029) 1.75ng m
 response 70994

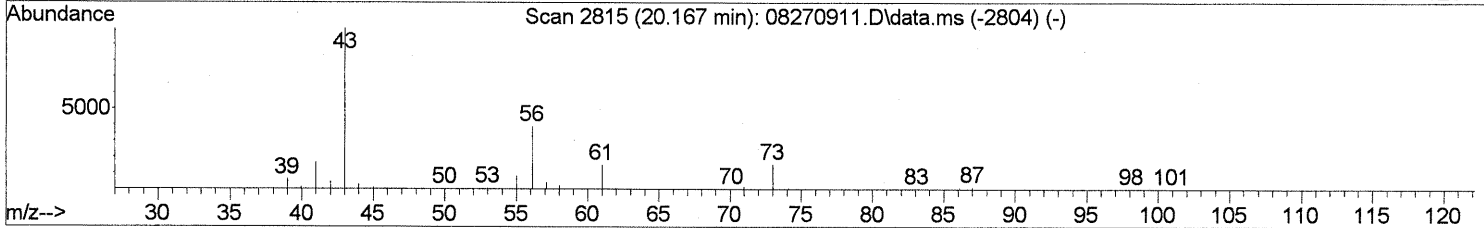
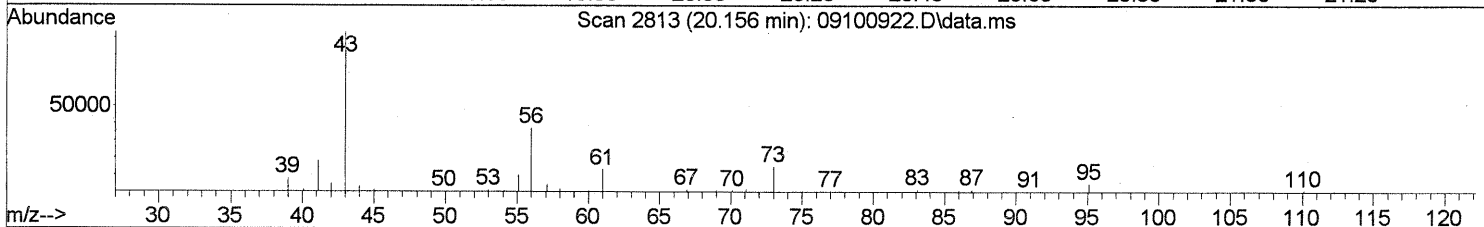
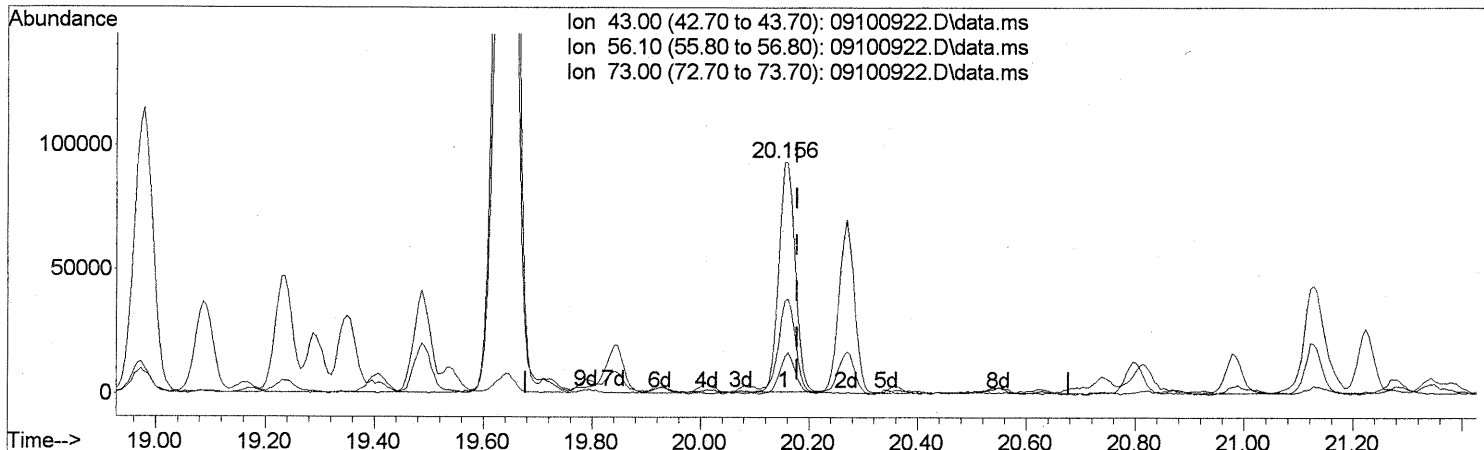
Ion	Exp%	Act%
43.00	100	100
58.00	51.70	56.00
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
11/9/20/09
LM 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

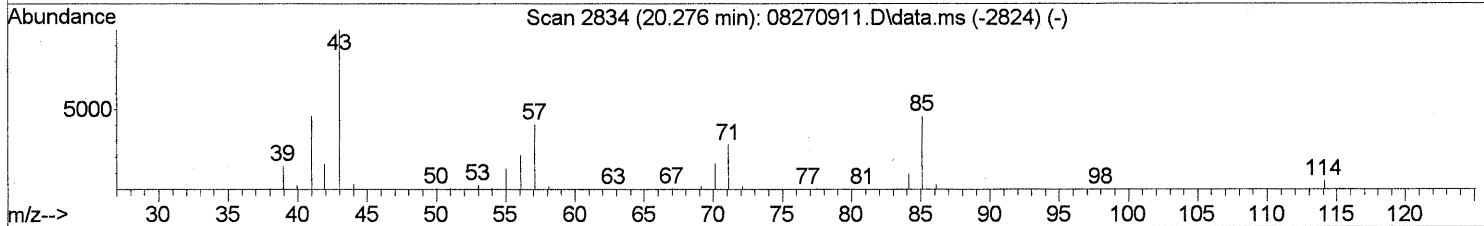
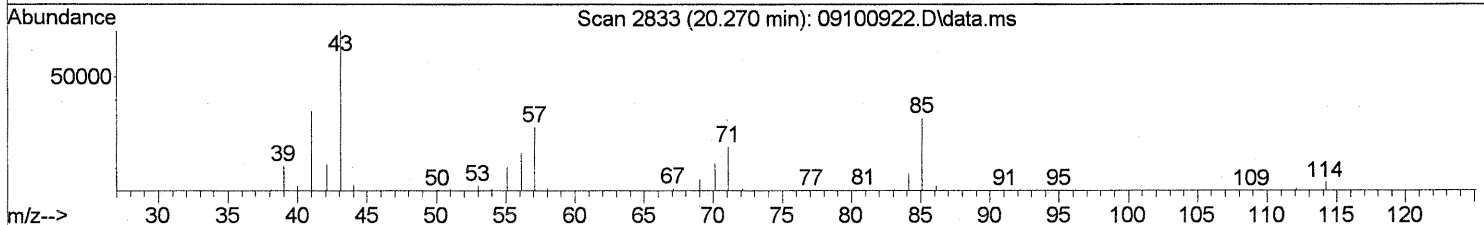
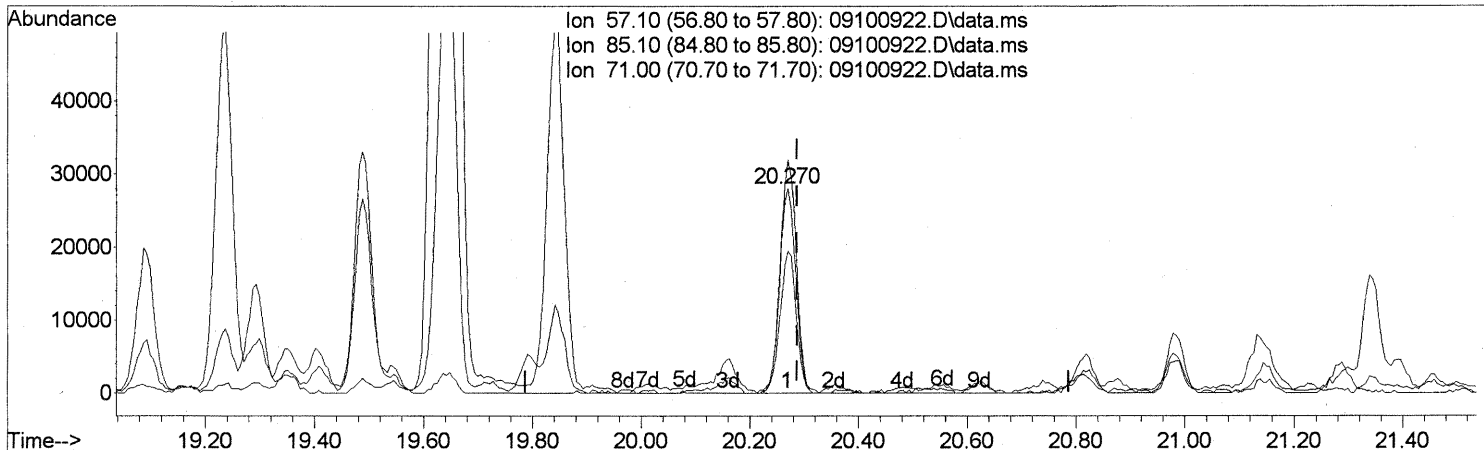
(62) n-Butyl Acetate (T)
 20.156min (-0.023) 4.16ng
 response 193234

Ion	Exp%	Act%
43.00	100	100
56.10	39.50	42.14
73.00	14.30	18.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

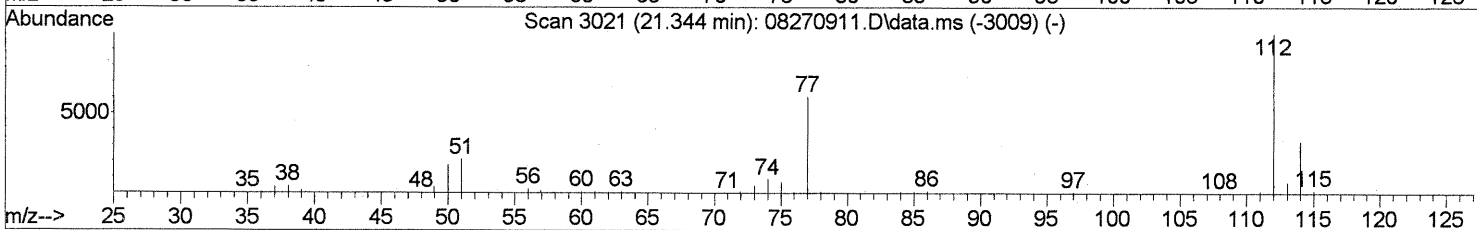
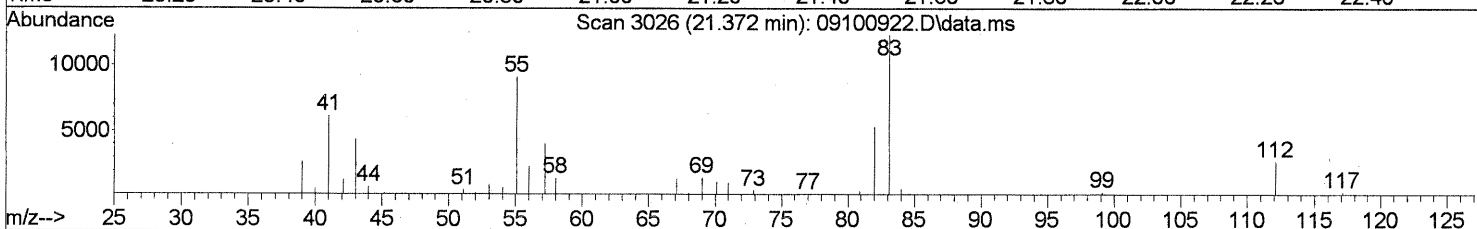
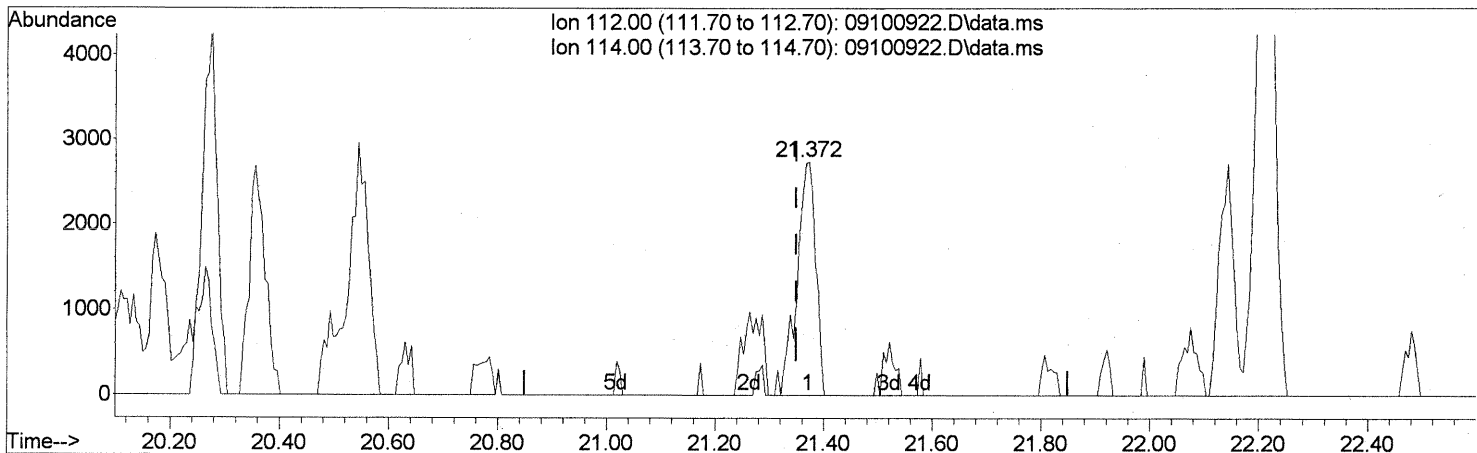
(63) n-Octane (T)
 20.270min (-0.017) 3.84ng
 response 58525

Ion	Exp%	Act%
57.10	100	100
85.10	113.70	112.57
71.00	69.10	68.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(65) Chlorobenzene (T)
 21.372min (+0.023) 0.16ng
 response 6603

Ion	Exp%	Act%
112.00	100	100
114.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

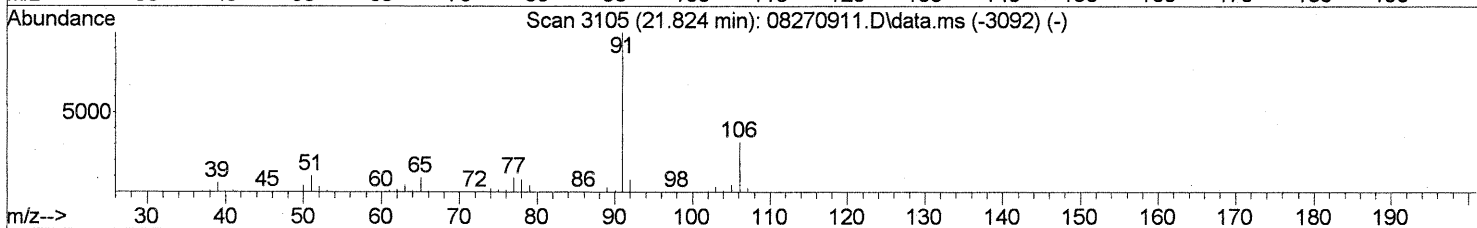
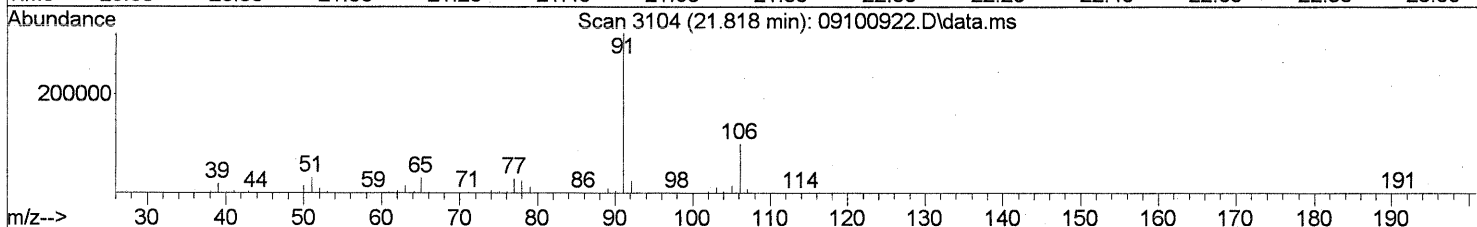
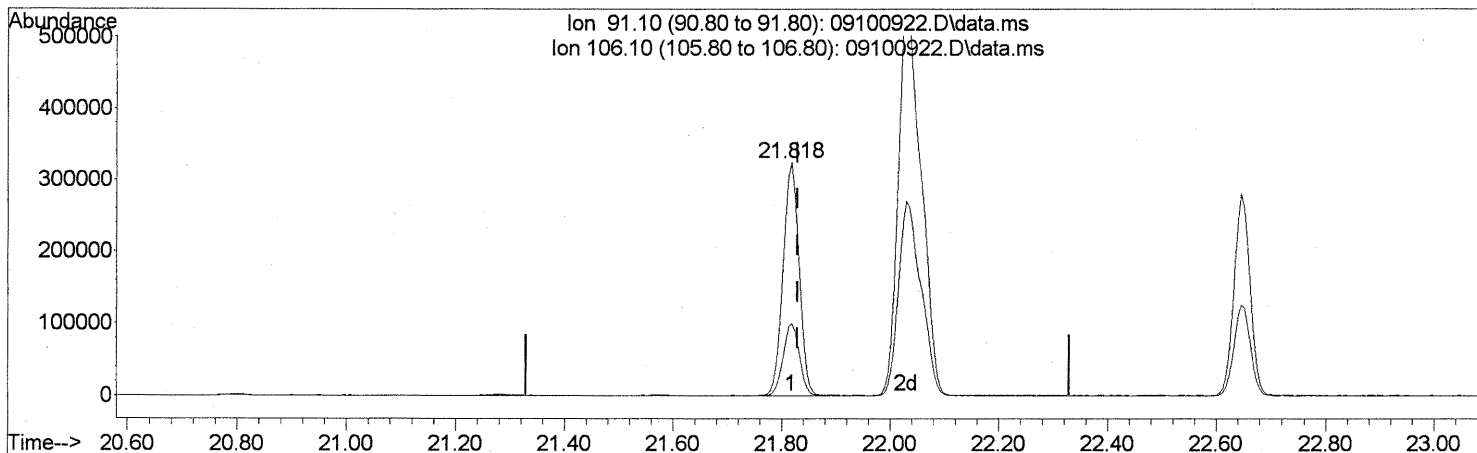
FP
11/9/2009

Sam 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

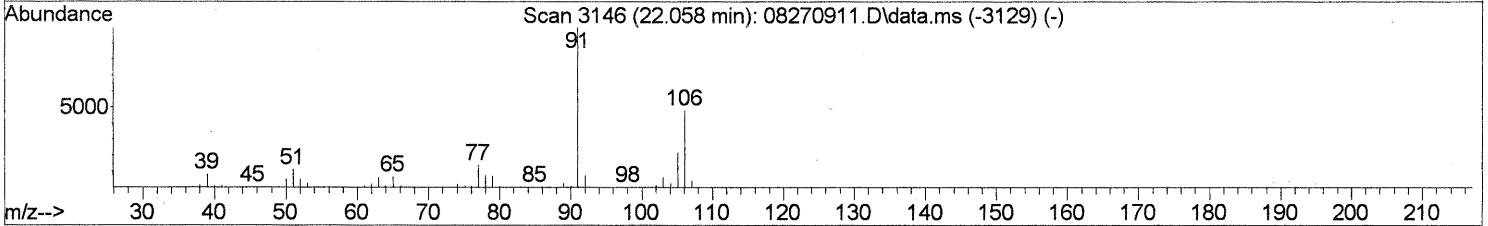
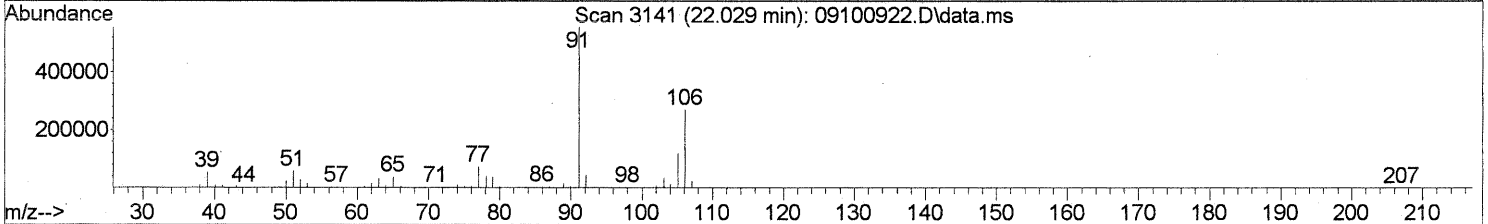
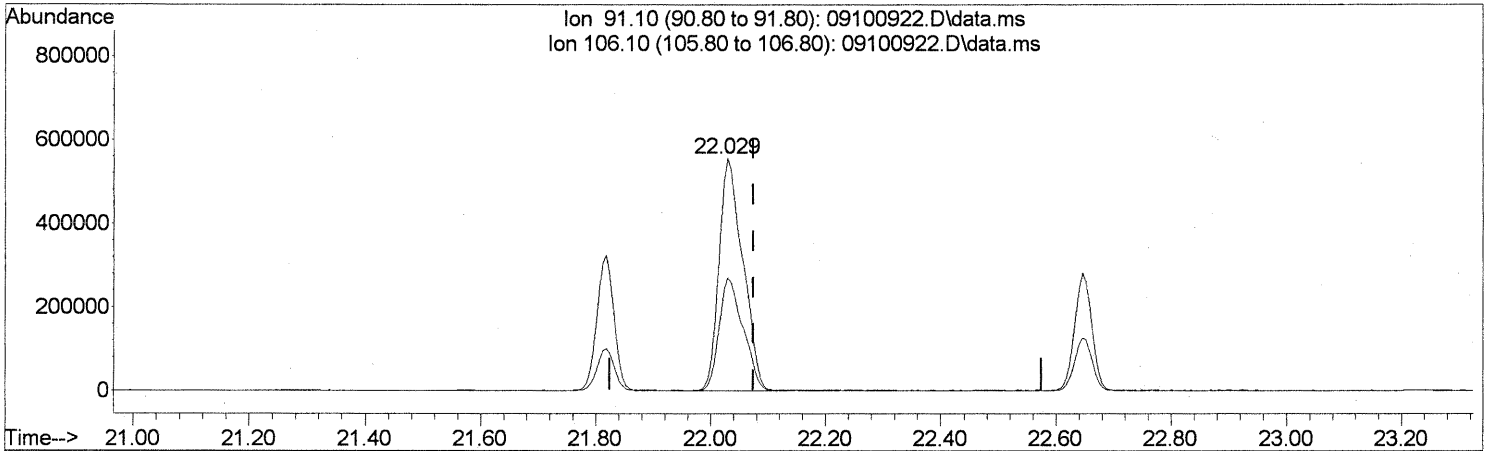
(66) Ethylbenzene (T)
 21.818min (-0.011) 8.86ng
 response 670763

Ion	Exp%	Act%
91.10	100	100
106.10	31.00	31.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

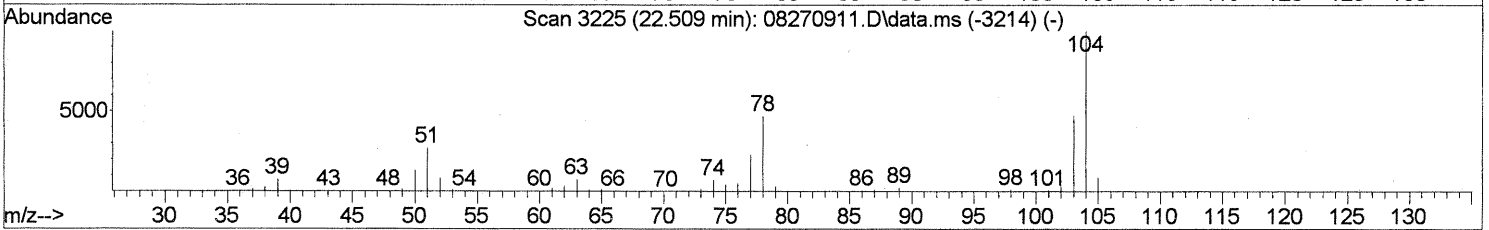
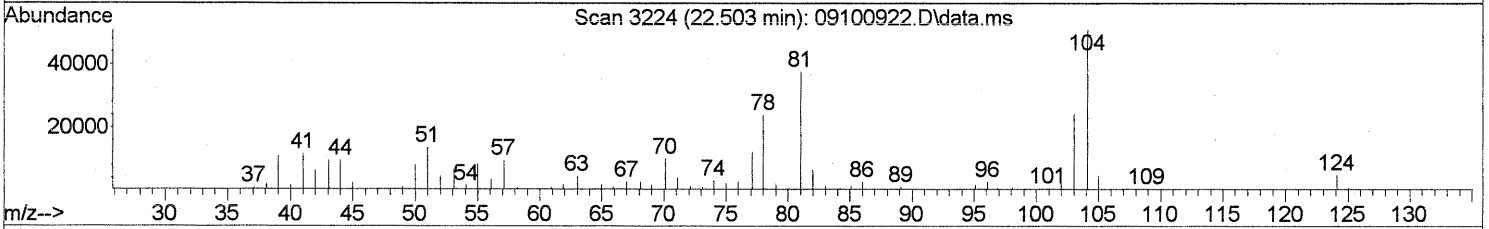
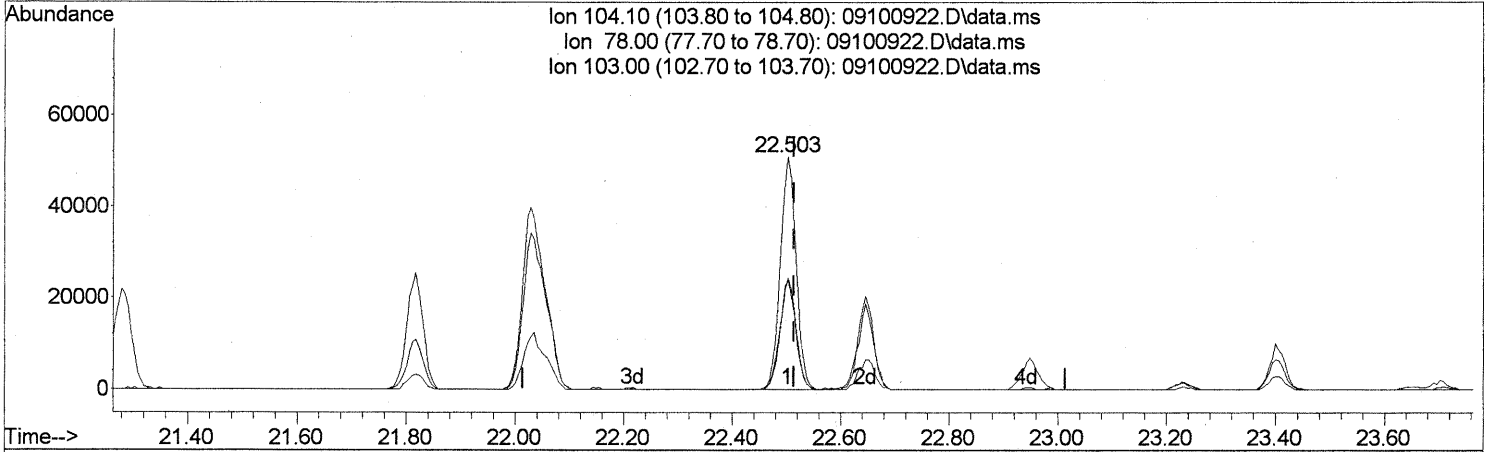
(67) m- & p-Xylenes (T)
 22.029min (-0.046) 26.47ng
 response 1596391

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	48.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

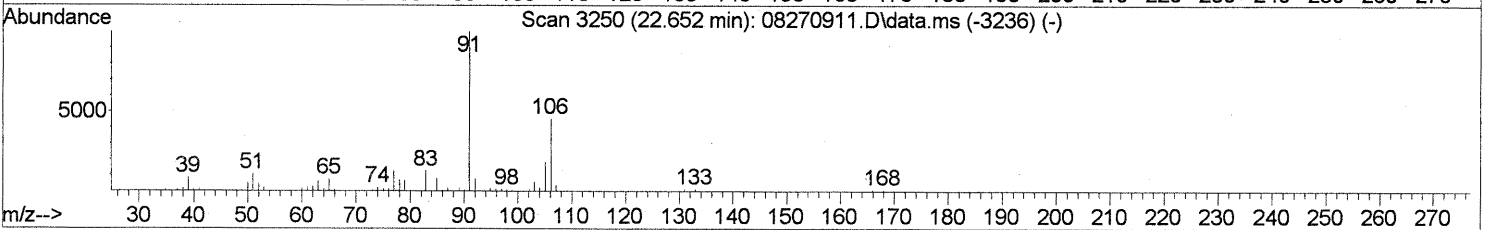
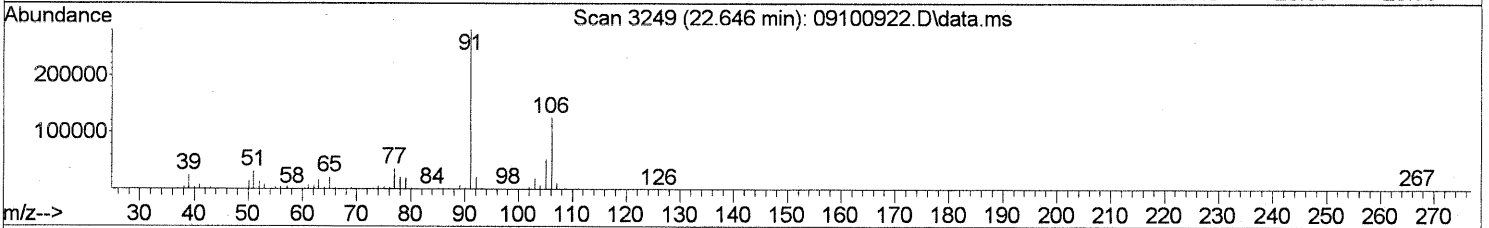
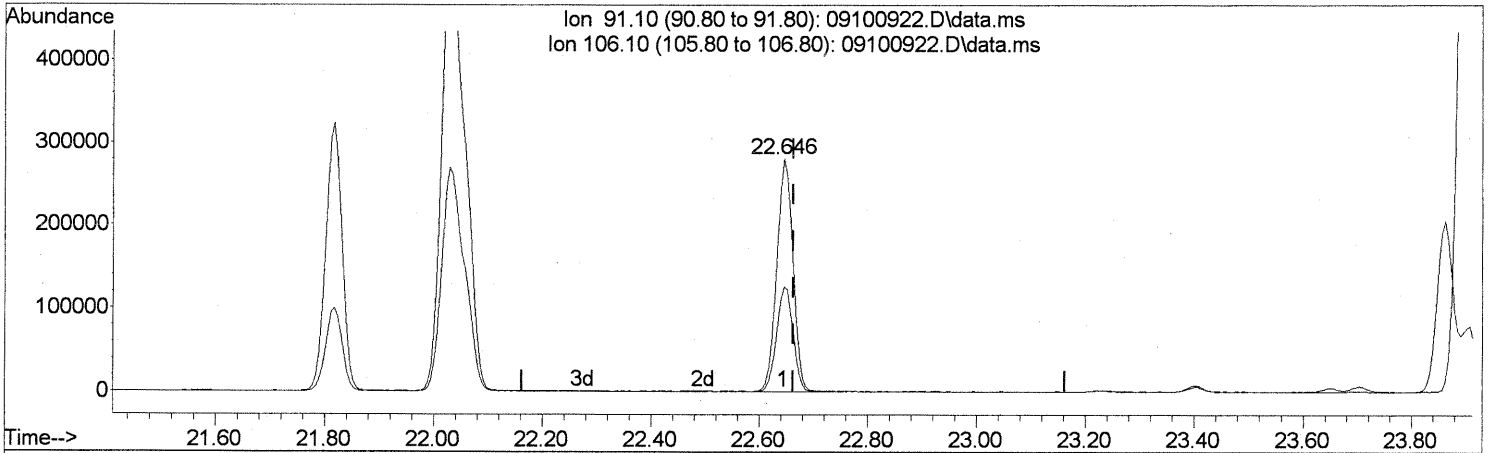
(69) Styrene (T)
 22.503min (-0.011) 2.32ng
 response 102967

Ion	Exp%	Act%
104.10	100	100
78.00	47.20	47.59
103.00	47.00	47.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

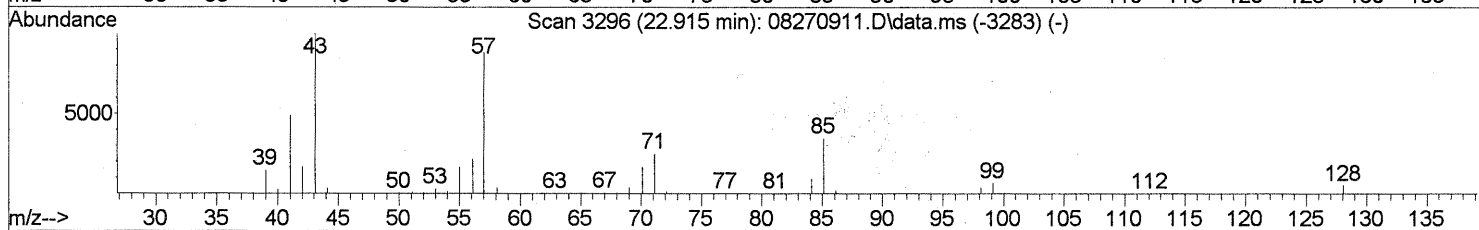
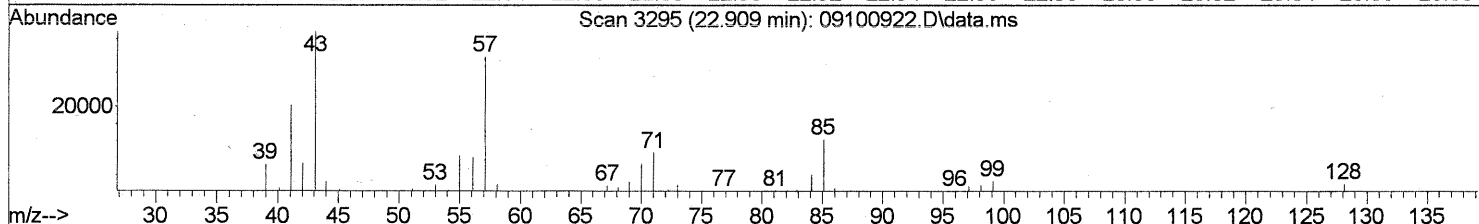
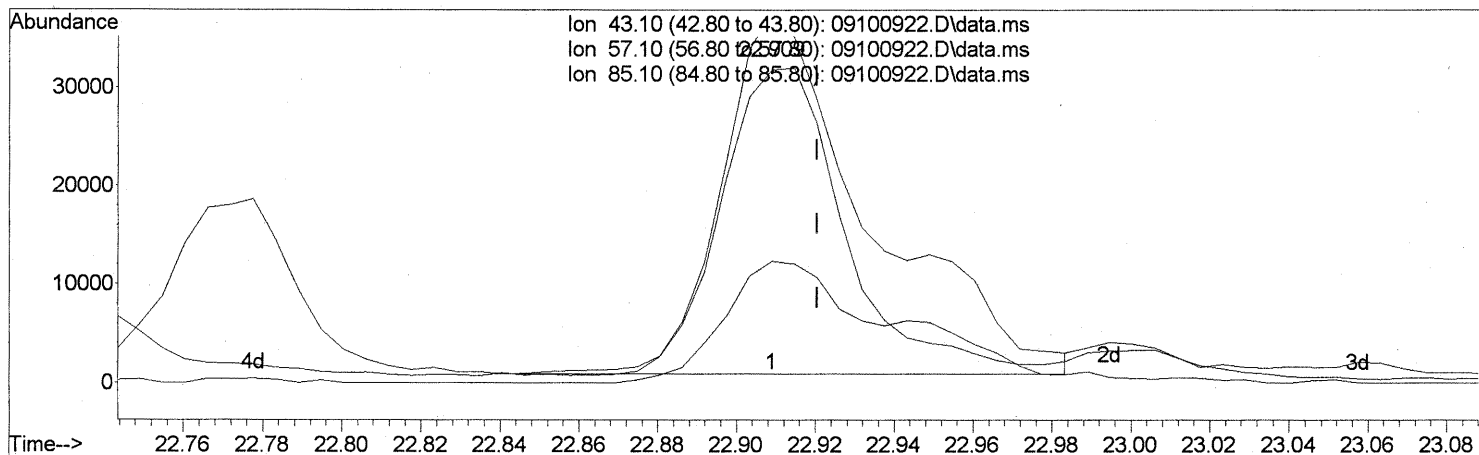
(70) o-Xylene (T)
 22.646min (-0.017) 9.55ng
 response 578590

Ion	Exp%	Act%
91.10	100	100
106.10	44.90	45.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(71) n-Nonane (T)
 22.909min (-0.012) 2.63ng
 response 95681

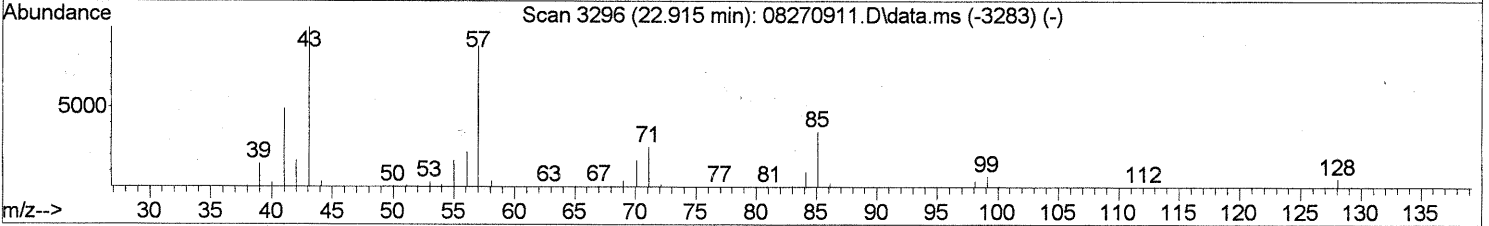
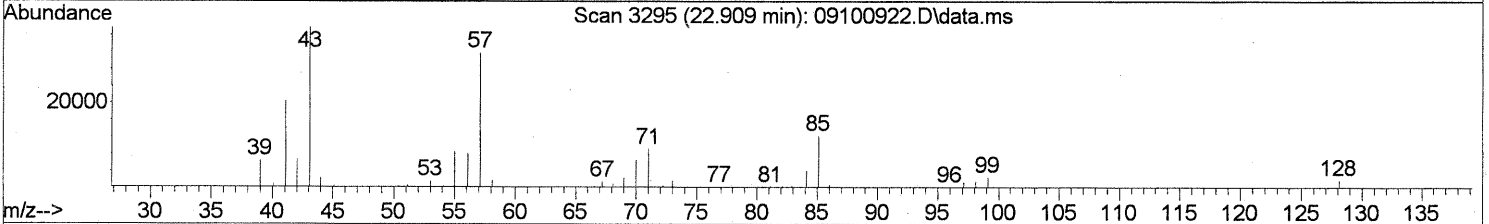
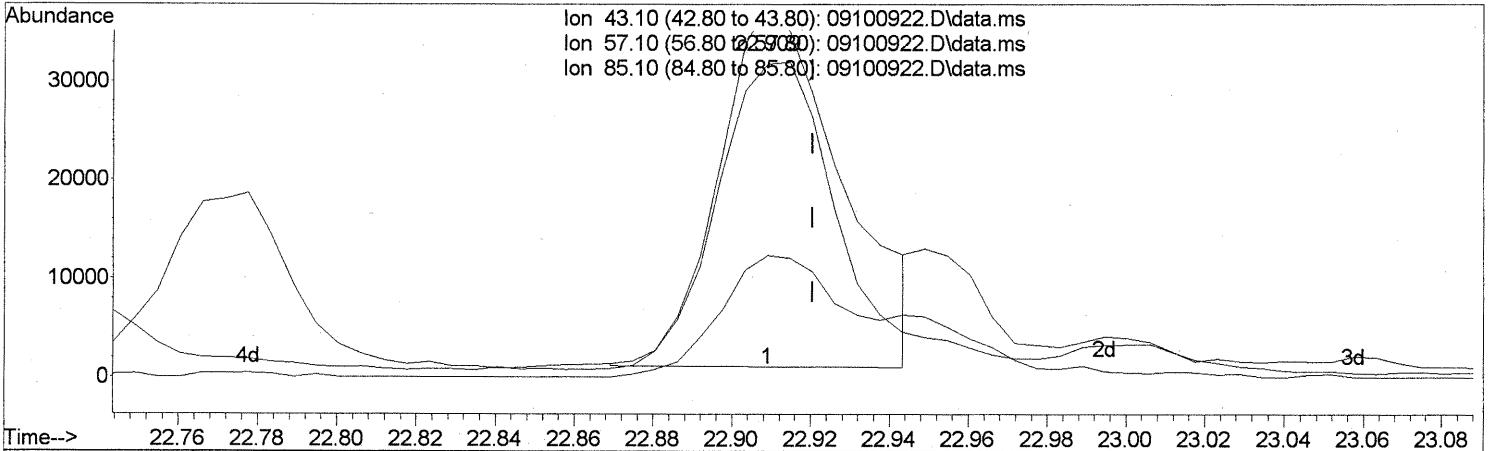
PTISH

Ion	Exp%	Act%
43.10	100	100
57.10	85.90	71.86
85.10	32.20	39.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(71) n-Nonane (T)
 22.909min (-0.012) 2.17ng m
 response 78867

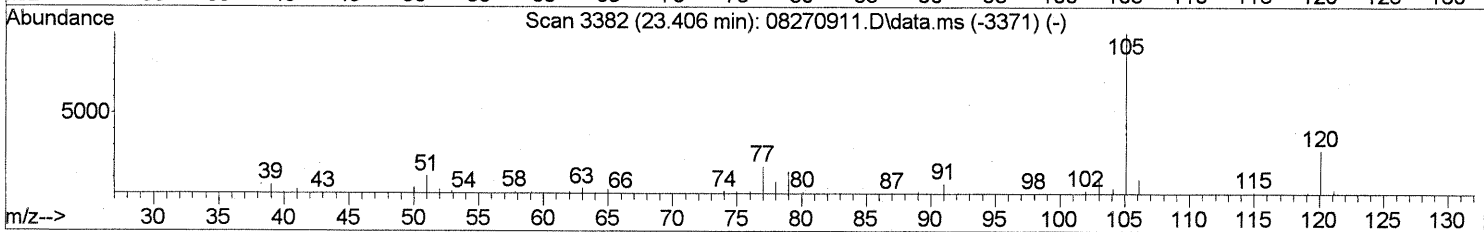
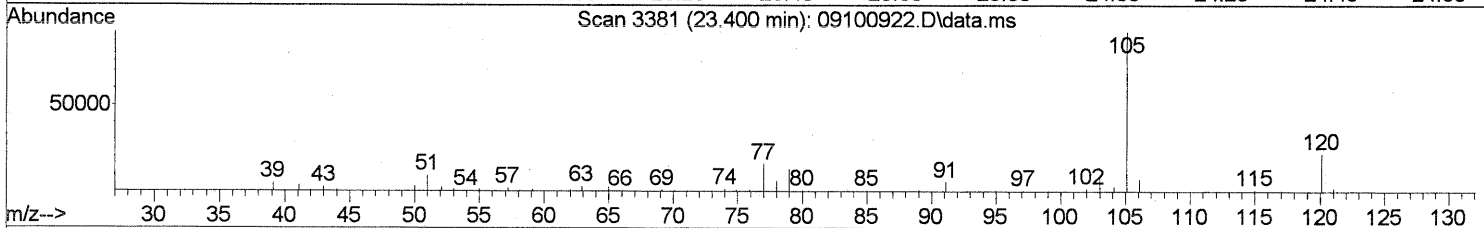
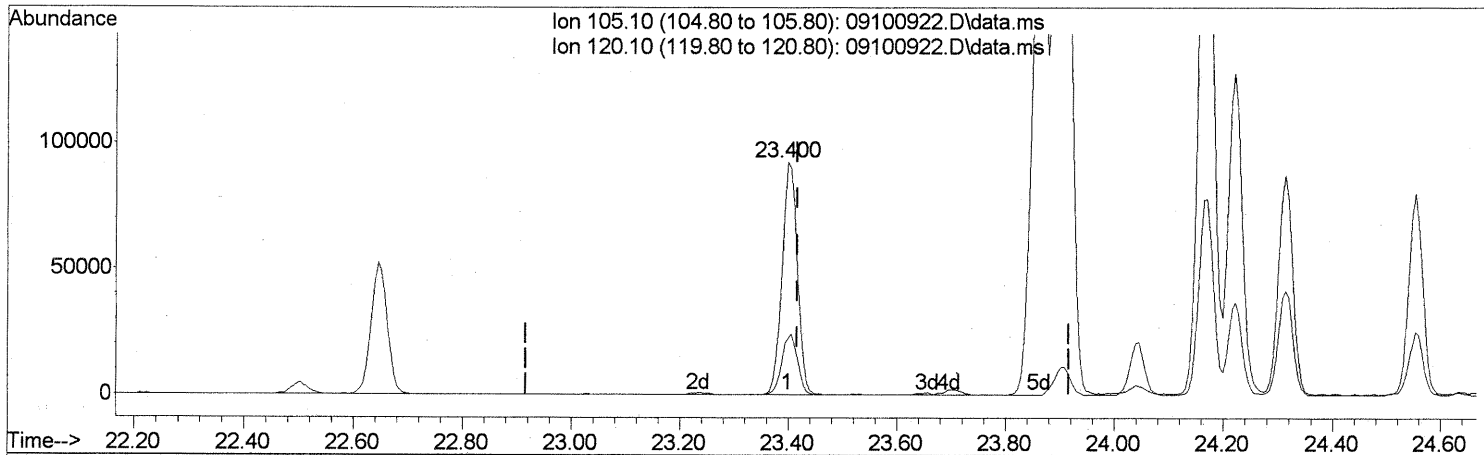
Ion	Exp%	Act%
43.10	100	100
57.10	85.90	87.18
85.10	32.20	48.20
0.00	0.00	0.00

PT/SH → IC
11/9/2009
Em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

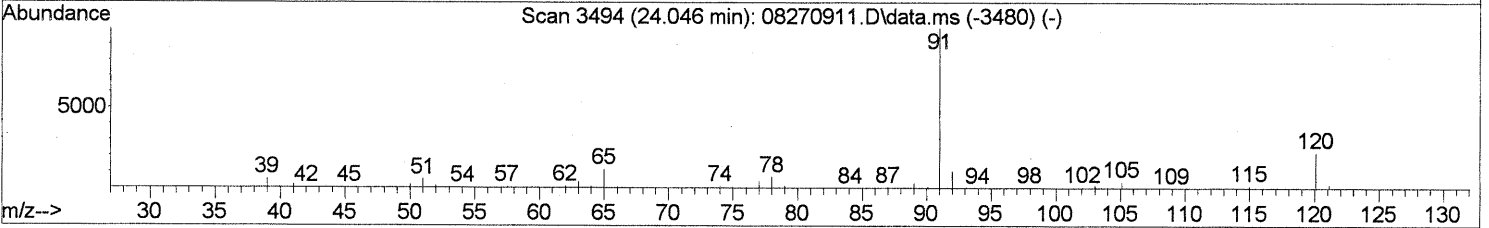
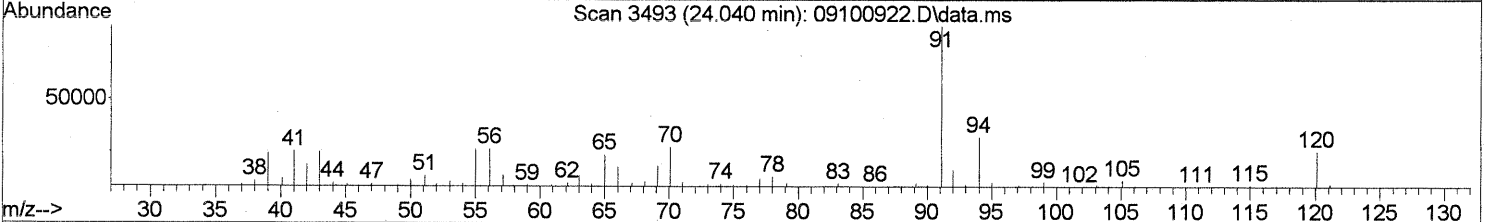
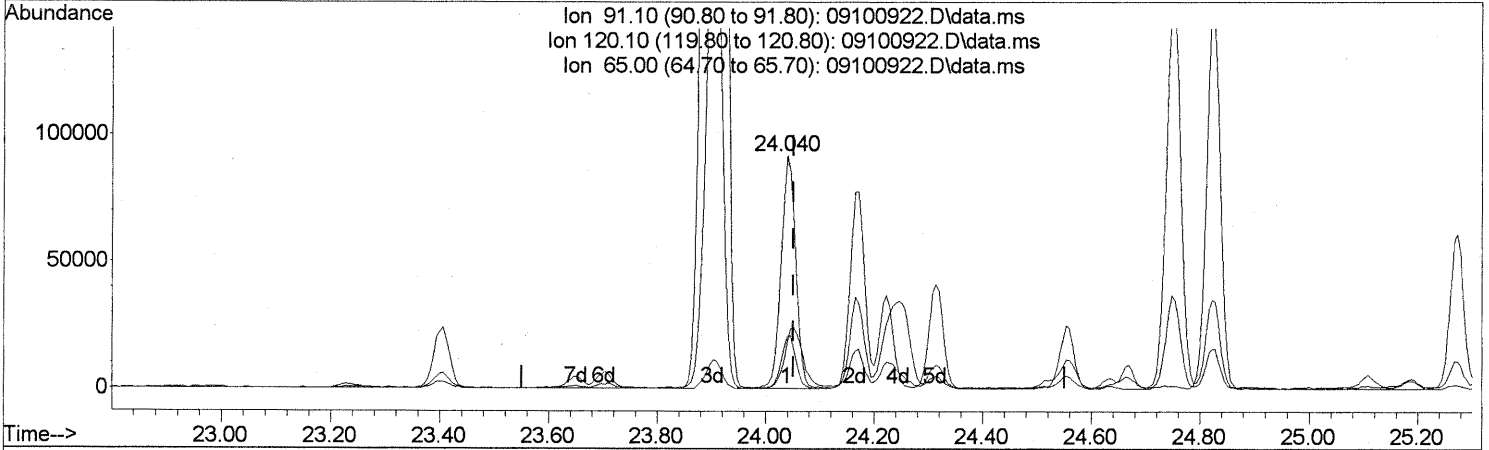
(74) Cumene (T)
 23.400min (-0.017) 2.36ng
 response 180925

Ion	Exp%	Act%
105.10	100	100
120.10	25.50	26.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

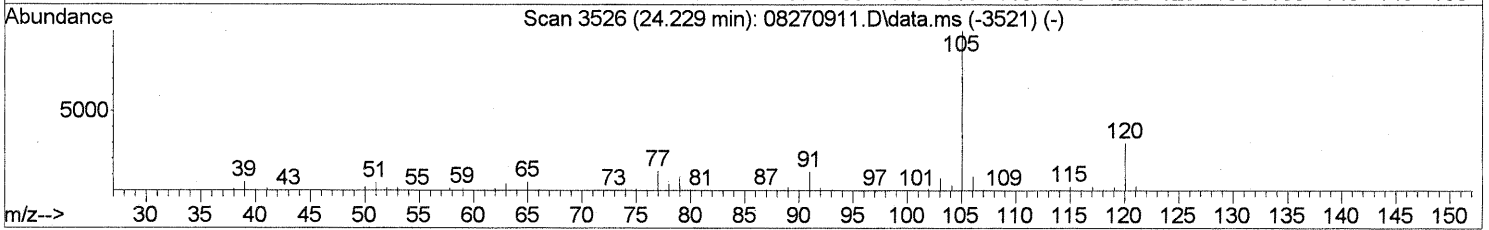
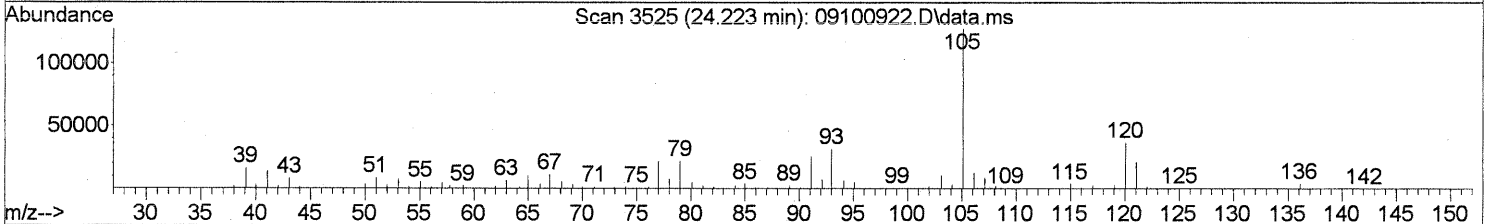
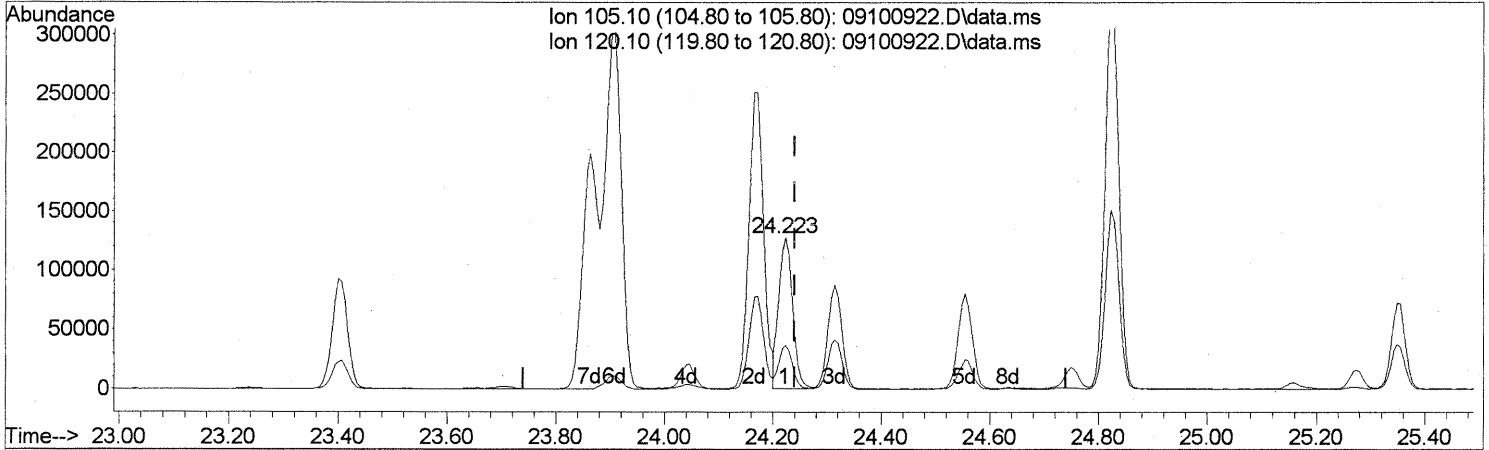
(76) n-Propylbenzene (T)
 24.040min (-0.011) 1.75ng
 response 171023

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	22.17
65.00	11.80	33.61#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

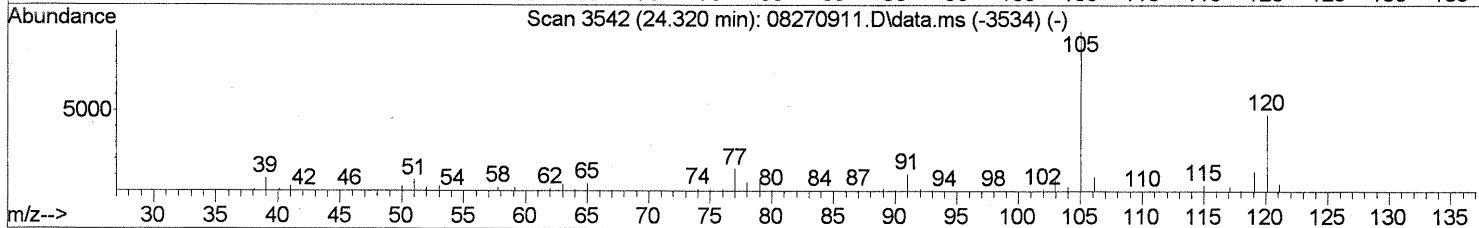
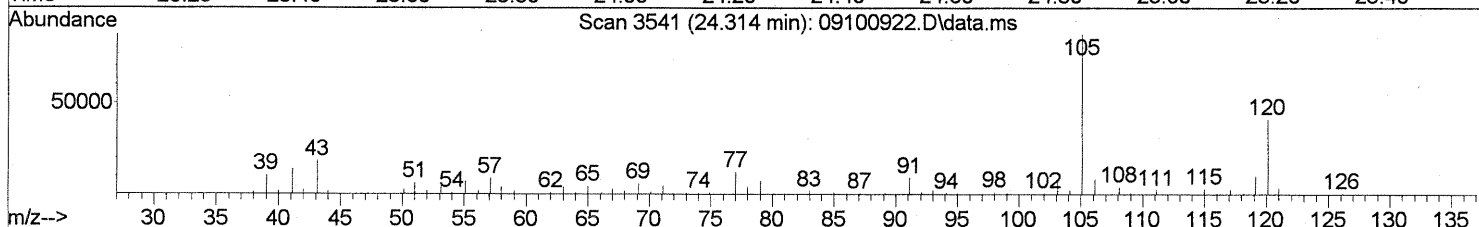
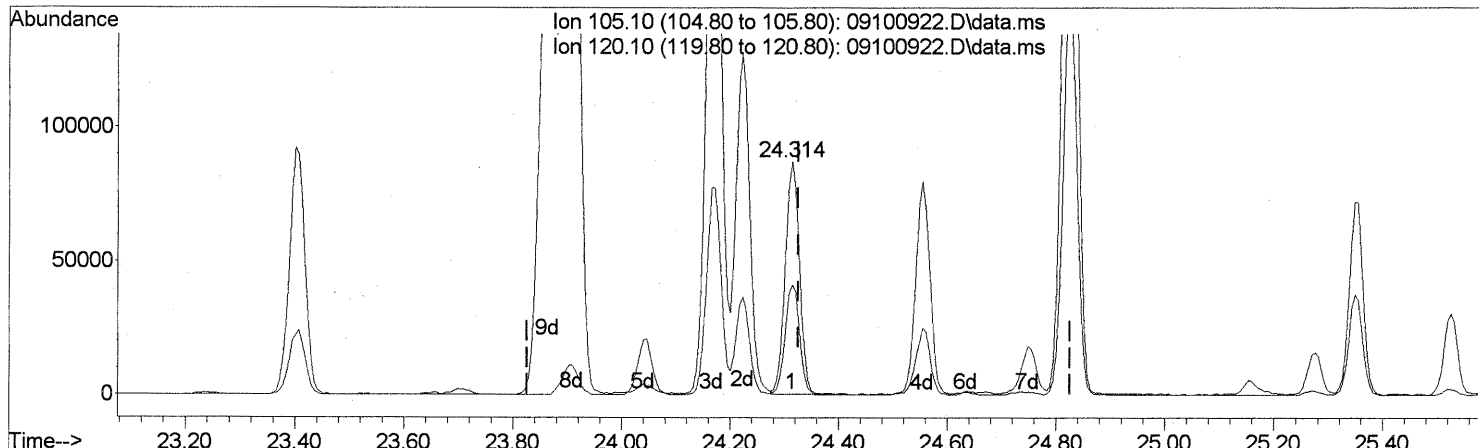
(78) 4-Ethyltoluene (T)
 24.223min (-0.017) 3.09ng
 response 223961

Ion	Exp%	Act%
105.10	100	100
120.10	28.70	28.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

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

24.314min (-0.011) 2.61ng

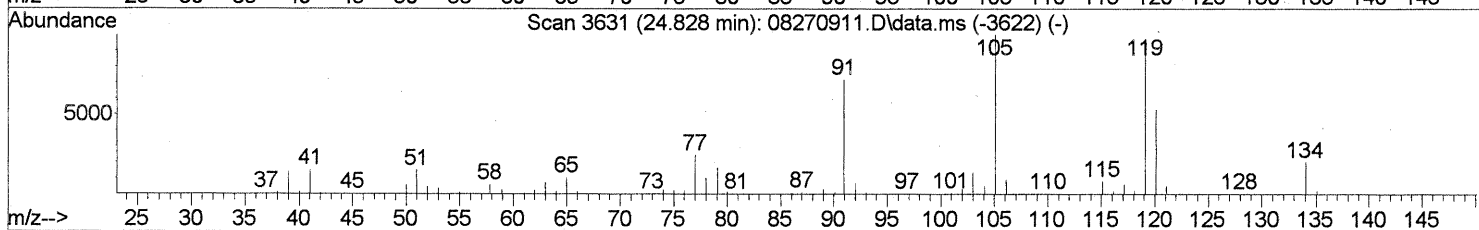
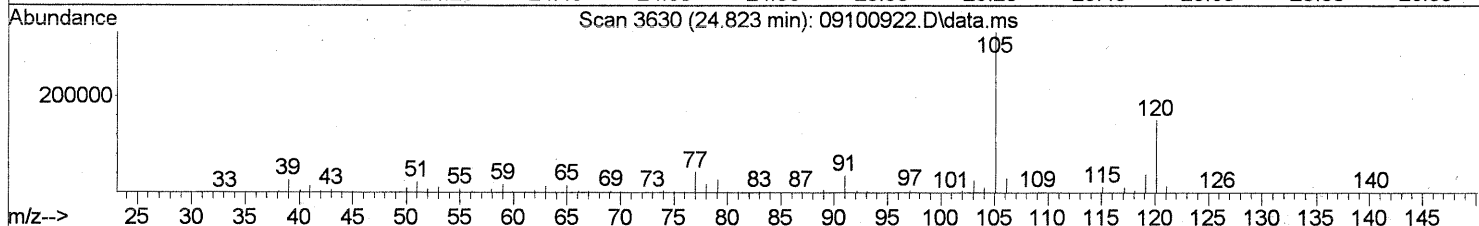
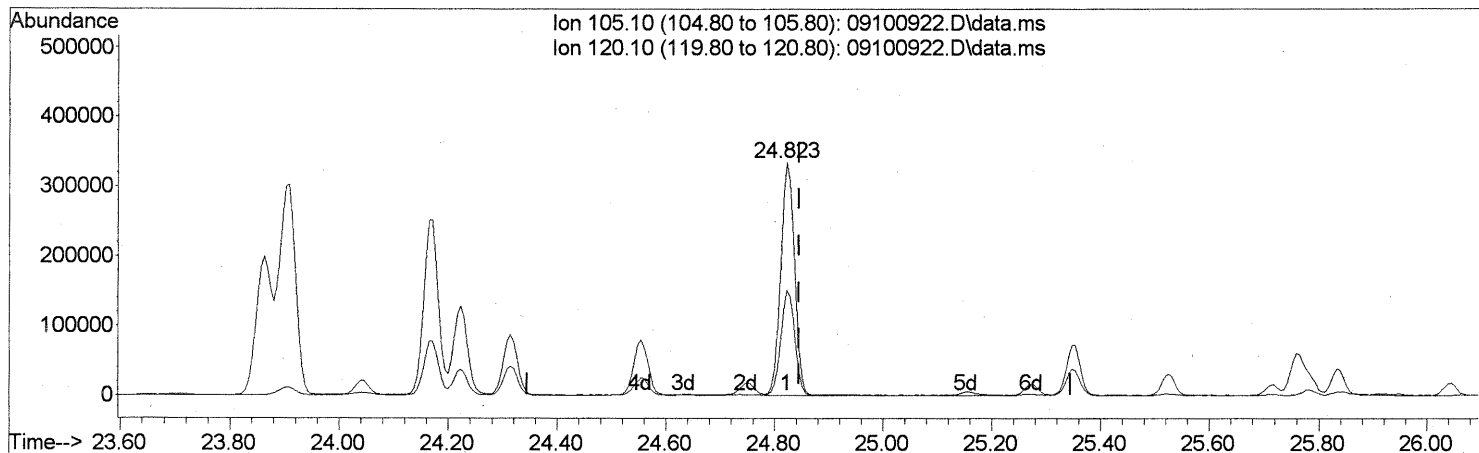
response 157406

Ion	Exp%	Act%
105.10	100	100
120.10	47.70	48.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

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

24.823min (-0.023) 9.52ng

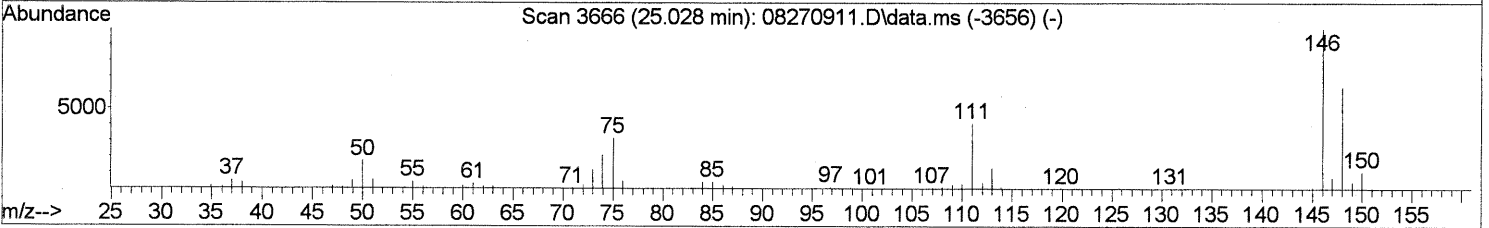
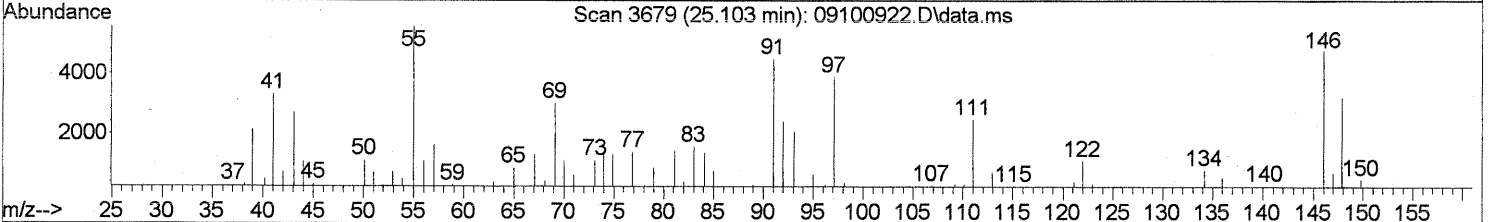
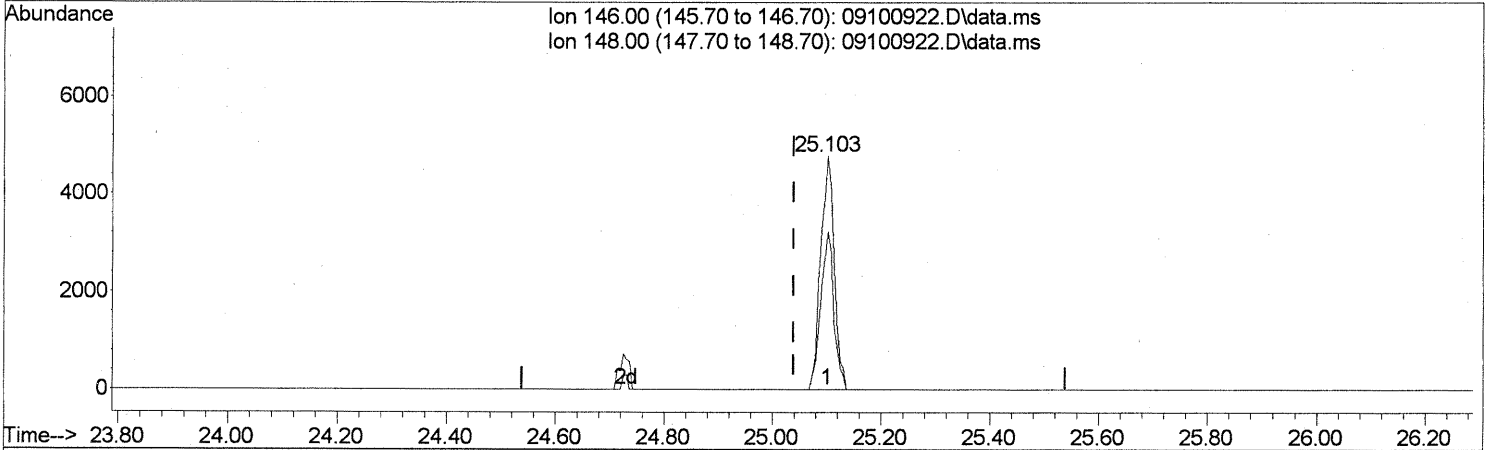
response 586519

Ion	Exp%	Act%
105.10	100	100
120.10	52.00	45.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(85) 1,3-Dichlorobenzene (T)
 25.103min (+0.063) 0.25ng
 response 8304

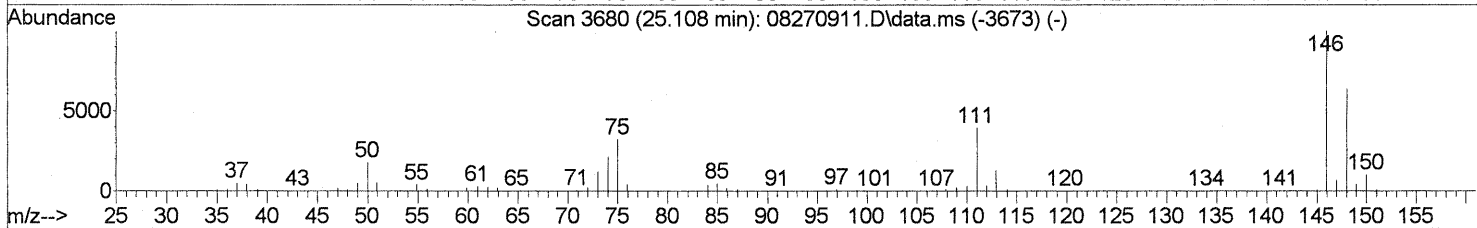
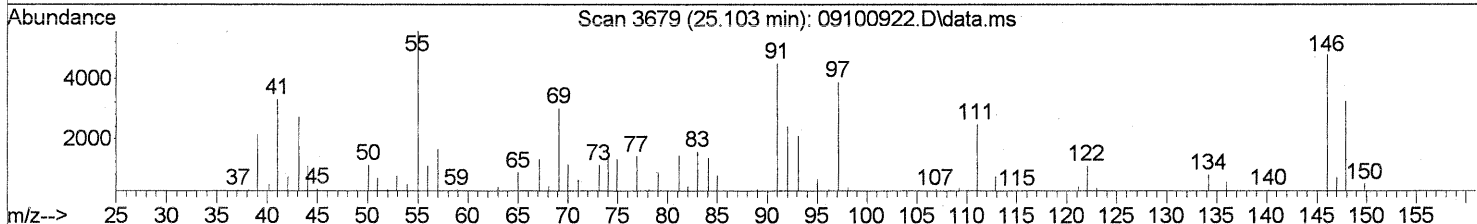
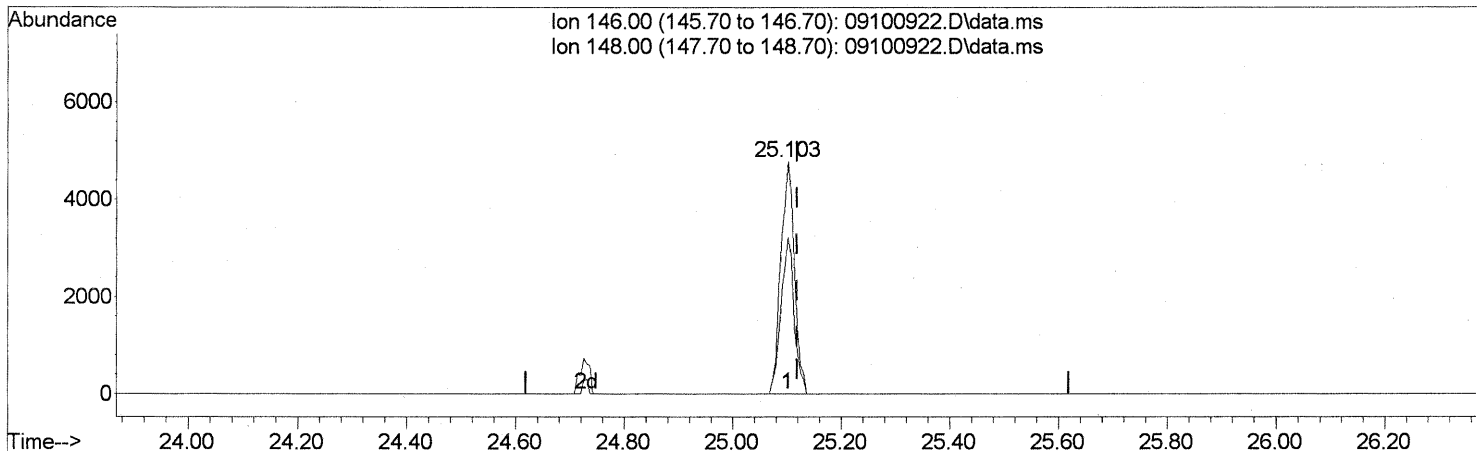
Ion	Exp%	Act%
146.00	100	100
148.00	64.00	65.16
0.00	0.00	0.00
0.00	0.00	0.00

FP
11/9/2009
LM 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

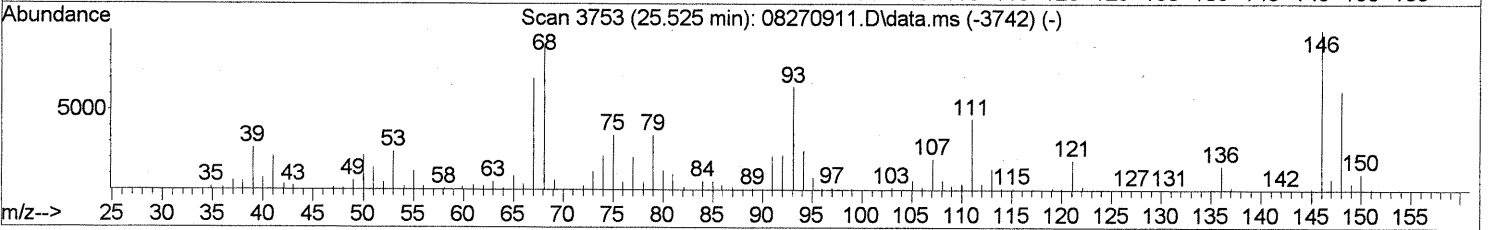
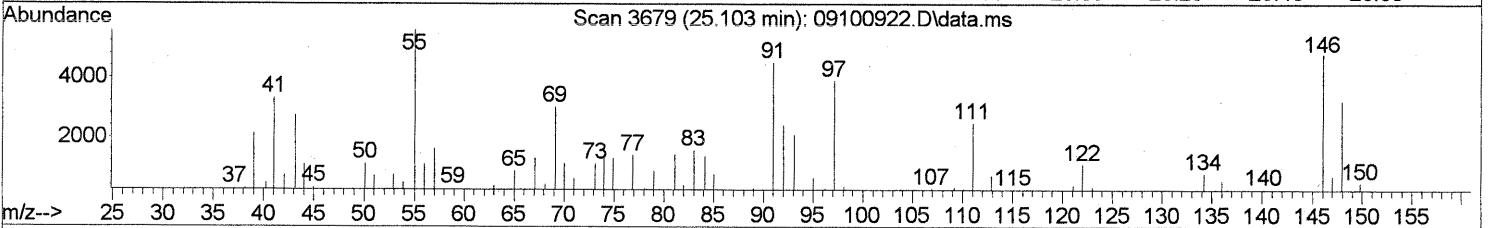
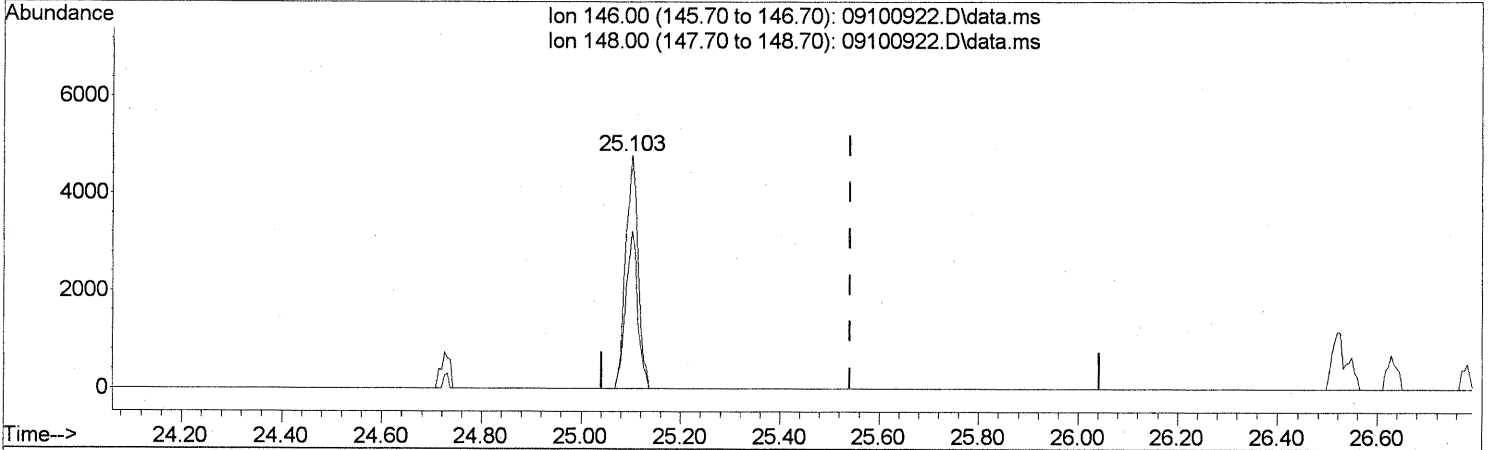
(86) 1,4-Dichlorobenzene (T)
 25.103min (-0.017) 0.24ng
 response 8304

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	65.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.103min (-0.440) 0.27ng

response 8304

Ion	Exp%	Act%
146.00	100	100
148.00	62.80	65.16
0.00	0.00	0.00
0.00	0.00	0.00

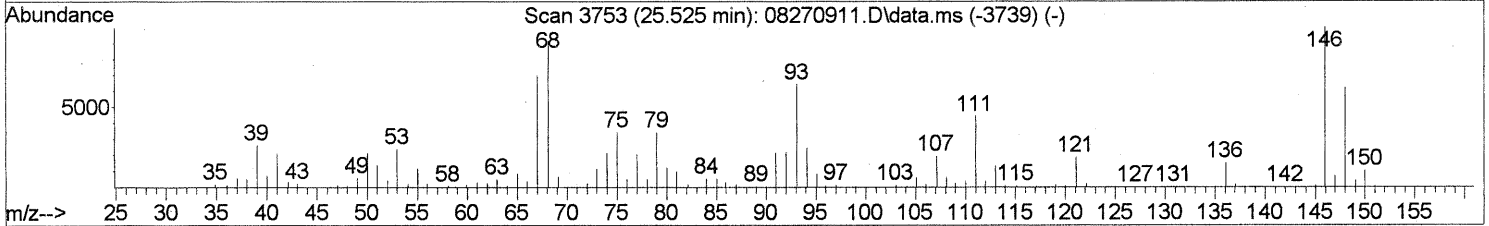
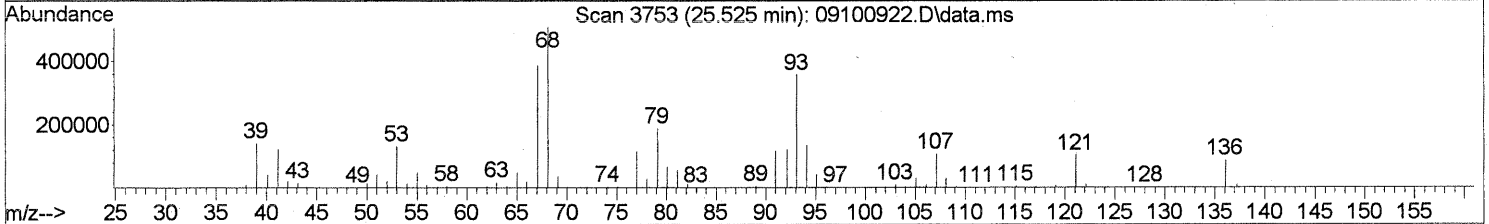
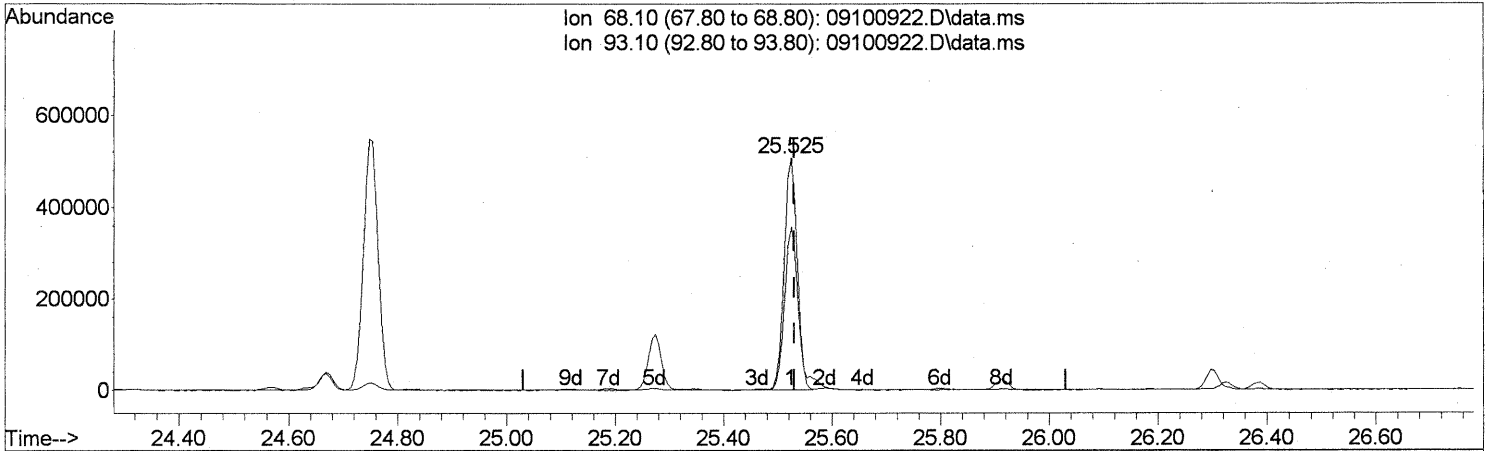
FP
LM 9/21/09

Sen 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100922.D\data.ms

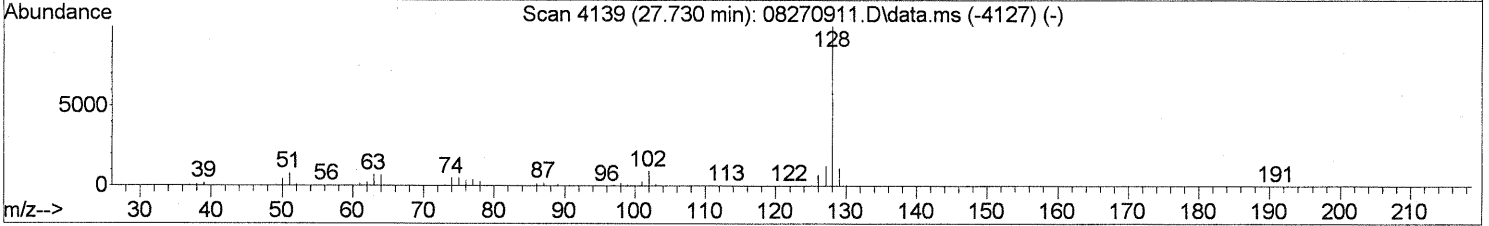
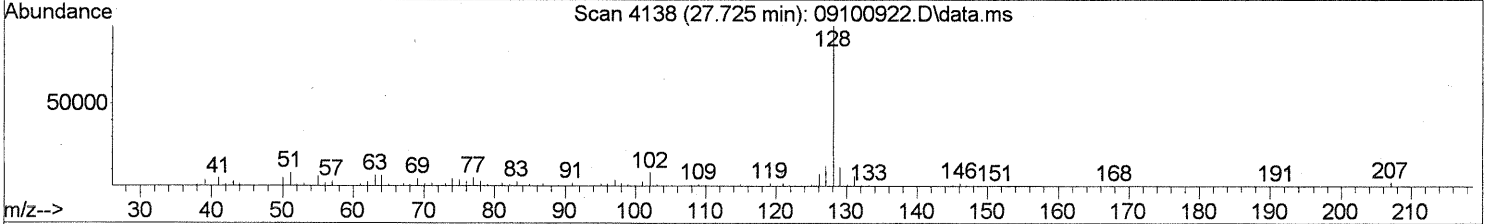
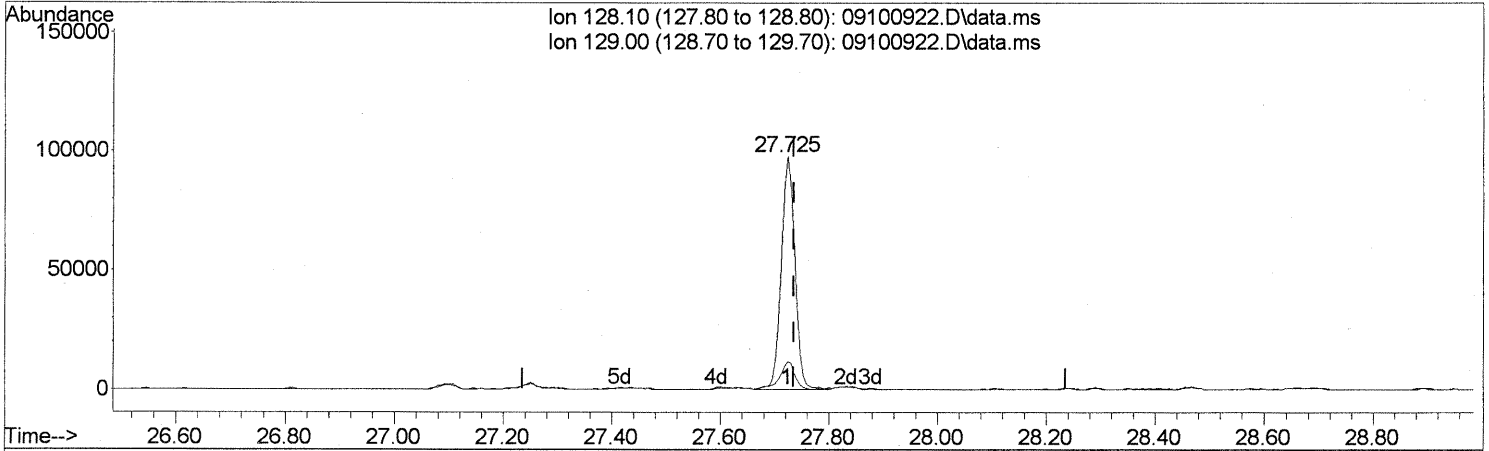
(91) d-Limonene (T)
 25.525min (-0.006) 34.56ng
 response 849559

Ion	Exp%	Act%
68.10	100	100
93.10	69.80	76.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100922.D
 Acq On : 11 Sep 2009 1:08
 Operator : LM/CC
 Sample : P0903141-004 (1000ml)
 Misc : EH&E 105017
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 08:32:15 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



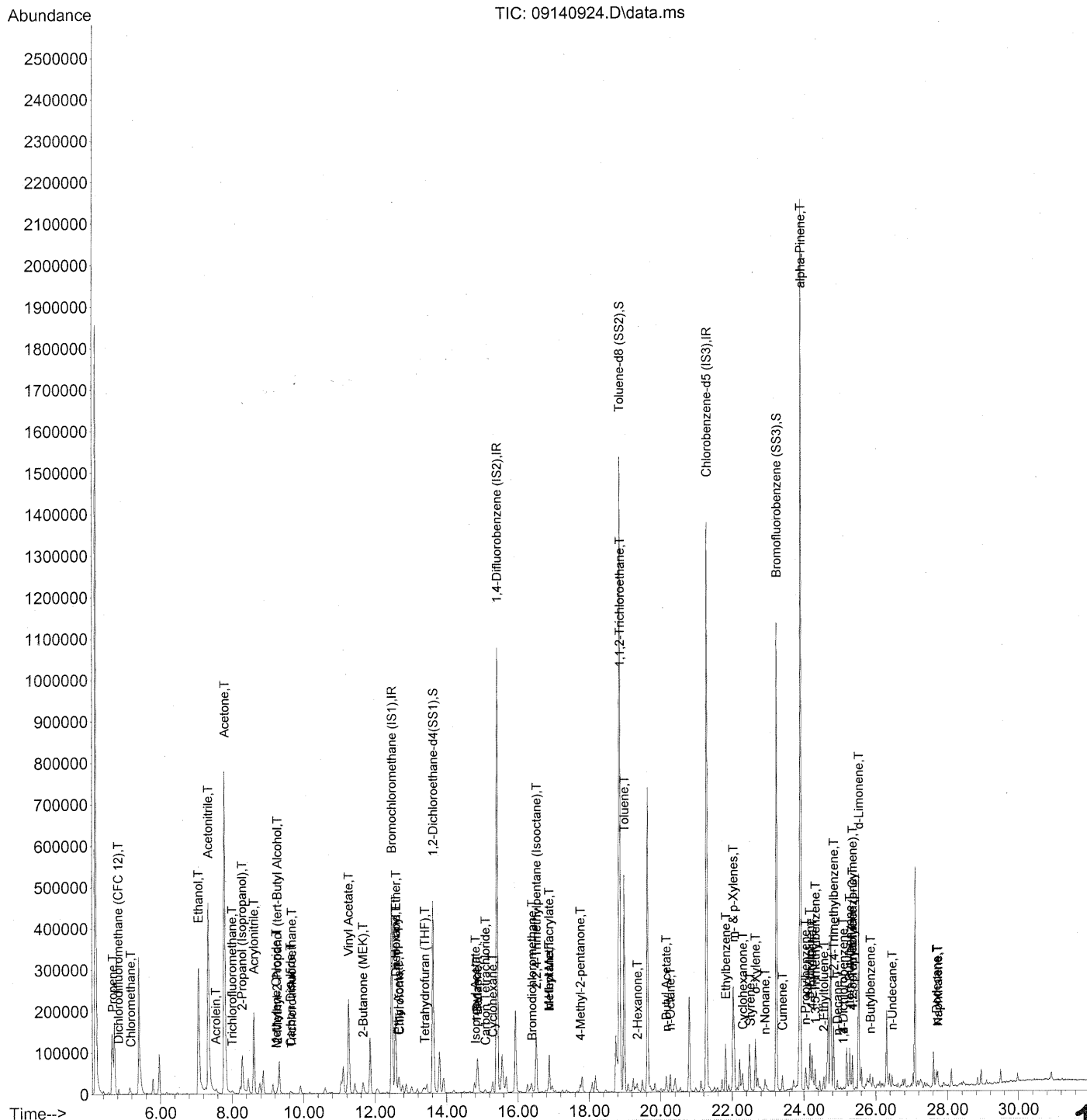
TIC: 09100922.D\data.ms

(95) Naphthalene (T)
 27.725min (-0.012) 2.02ng
 response 171964

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	13.06
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_09\14\
Data File : 09140924.D
Acq On : 15 Sep 2009 3:44 am
Operator : LM/CC
Sample : P0903141-004dil (200ml)
Misc : EH&E 105017
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 15 11:09:26 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140924.D
 Acq On : 15 Sep 2009 3:44 am
 Operator : LM/CC
 Sample : P0903141-004dil (200ml)
 Misc : EH&E 105017
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 15 11:09:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

UM 9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.46	130	243164	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.41	114	1216002	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	570868	25.000	ng	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.61	65	479741	24.896	ng	-0.03
Spiked Amount	25.000		Recovery	=	99.60%	
57) Toluene-d8 (SS2)	18.84	98	1306195	25.603	ng	-0.02
Spiked Amount	25.000		Recovery	=	102.40%	
73) Bromofluorobenzene (SS3)	23.23	174	359288	24.469	ng	-0.01
Spiked Amount	25.000		Recovery	=	97.88%	
Target Compounds						Qvalue
2) Propene	4.67	42	41081	2.336	ng	# 31
3) Dichlorodifluoromethan...	4.83	85	13773	0.447	ng	96
4) Chloromethane	5.17	50	4994	0.241	ng	88
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	5.79	54	395	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.06	45	647027	59.323	ng	100
11) Acetonitrile	7.33	41	789891	26.073	ng	99
12) Acrolein	7.55	56	11904	1.429	ng	98
13) Acetone	7.79	58	287259	25.467	ng	# 80
14) Trichlorofluoromethane	8.01	101	6226	0.229	ng	90
15) 2-Propanol (Isopropanol)	8.29	45	207941	5.545	ng	99
16) Acrylonitrile	8.61	53	3197	0.172	ng	# 17
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.27	59	5052	0.135	ng	# 1
19) Methylene Chloride	9.24	84	716	0.050	ng	# 44
20) 3-Chloro-1-propene (Al...	9.40	41	87	N.D.		
21) Trichlorotrifluoroethane	9.67	151	962	0.090	ng	97
22) Carbon Disulfide	9.63	76	11834	0.232	ng	93
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.18	73	213	N.D.		
26) Vinyl Acetate	11.25	86	11136	3.940	ng	# 1
27) 2-Butanone (MEK)	11.66	72	12369	1.358	ng	# 91
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.58	87	1299	0.098	ng	# 1
30) Ethyl Acetate	12.65	61	3434	0.701	ng	95
31) n-Hexane	12.58	57	121911	4.998	ng	97

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Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140924.D
 Acq On : 15 Sep 2009 3:44 am
 Operator : LM/CC
 Sample : P0903141-004dil (200ml)
 Misc : EH&E 105017
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 15 11:09:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	22001	0.915	ng	96
34) Tetrahydrofuran (THF)	13.39	72	3381	0.342	ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	1007	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.81	61	553	0.060	ng #	1
40) 1-Butanol	14.84	56	32234	2.130	ng #	25
41) Benzene	14.87	78	75433	1.320	ng	99
42) Carbon Tetrachloride	15.09	117	2865	0.149	ng	93
43) Cyclohexane	15.29	84	15059	0.715	ng	94
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.39	83	5301	0.281	ng #	18
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	169136	2.600	ng	95
50) Methyl Methacrylate	16.87	100	7678	1.449	ng #	1
51) n-Heptane	16.88	71	27482	1.855	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.75	58	3621	0.277	ng	87
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	113254	8.502	ng #	7
58) Toluene	18.98	91	436204	7.938	ng	98
59) 2-Hexanone	19.35	43	12745	0.380	ng	93
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.16	43	31065	0.806	ng	91
63) n-Octane	20.27	57	8671	0.686	ng	95
64) Tetrachloroethene	20.80	166	99	N.D.		
65) Chlorobenzene	21.37	112	712	N.D.		
66) Ethylbenzene	21.82	91	105999	1.687	ng	99
67) m- & p-Xylenes	22.03	91	253573	5.068	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	16147	0.438	ng	96
70) o-Xylene	22.65	91	90532	1.801	ng	99
71) n-Nonane	22.91	43	15652	0.518	ng	90
72) 1,1,2,2-Tetrachloroethane	22.71	83	935	N.D.		
74) Cumene	23.40	105	28108	0.441	ng	100
75) alpha-Pinene	23.90	93	1018072	30.813	ng	91
76) n-Propylbenzene	24.04	91	26960	0.333	ng	87
77) 3-Ethyltoluene	24.17	105	72474	1.189	ng	97
78) 4-Ethyltoluene	24.22	105	36913	0.614	ng	98
79) 1,3,5-Trimethylbenzene	24.31	105	24477	0.489	ng	99

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140924.D
 Acq On : 15 Sep 2009 3:44 am
 Operator : LM/CC
 Sample : P0903141-004dil (200ml)
 Misc : EH&E 105017
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 15 11:09:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

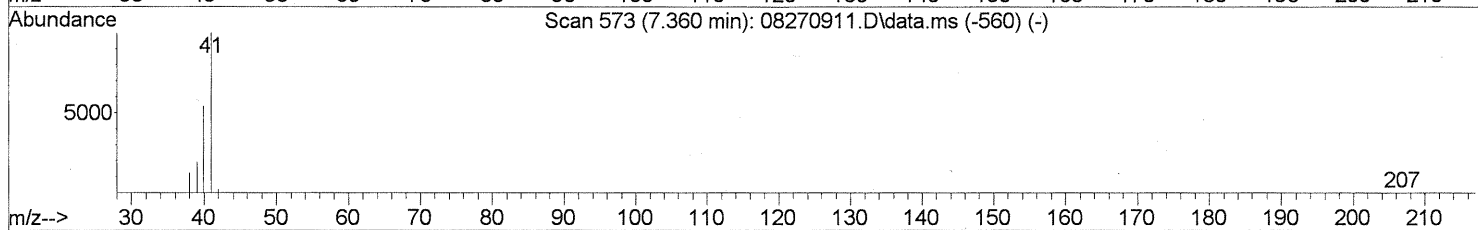
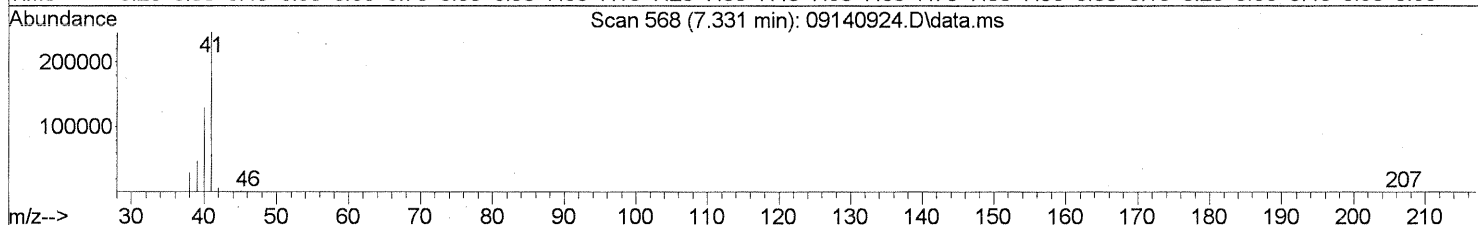
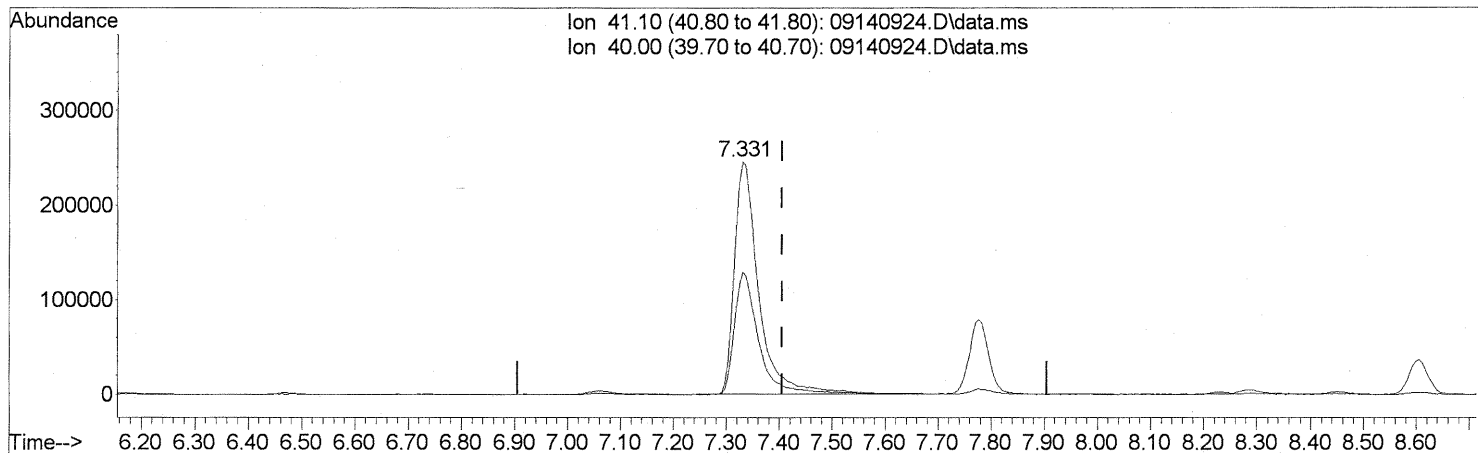
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	537	N.D.		
81) 2-Ethyltoluene	24.55	105	23024	0.368	ng	95
82) 1,2,4-Trimethylbenzene	24.82	105	93188	1.824	ng	91
83) n-Decane	24.93	57	10591	0.347	ng	98
84) Benzyl Chloride	25.00	91	432	N.D.		
85) 1,3-Dichlorobenzene	25.09	146	1729	0.063	ng	# 72
86) 1,4-Dichlorobenzene	25.09	146	1729	0.060	ng	# 72
87) sec-Butylbenzene	25.16	105	1352	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	28658	0.456	ng	98
89) 1,2,3-Trimethylbenzene	25.35	105	20022	0.374	ng	98
90) 1,2-Dichlorobenzene	25.09	146	1729	0.067	ng	# 73
91) d-Limonene	25.52	68	134570	6.597	ng	92
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.45	57	10357	0.327	ng	# 70
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.72	128	26115	0.370	ng	97
96) n-Dodecane	27.69	57	12510	0.347	ng	88
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	25888	1.222	ng	95
99) tert-Butylbenzene	25.27	119	3316	0.067	ng	91
100) n-Butylbenzene	25.85	91	10001	0.176	ng	# 50

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140924.D
 Acq On : 15 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903141-004dil (200ml)
 Misc : EH&E 105017
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 15 11:09:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09140924.D\data.ms

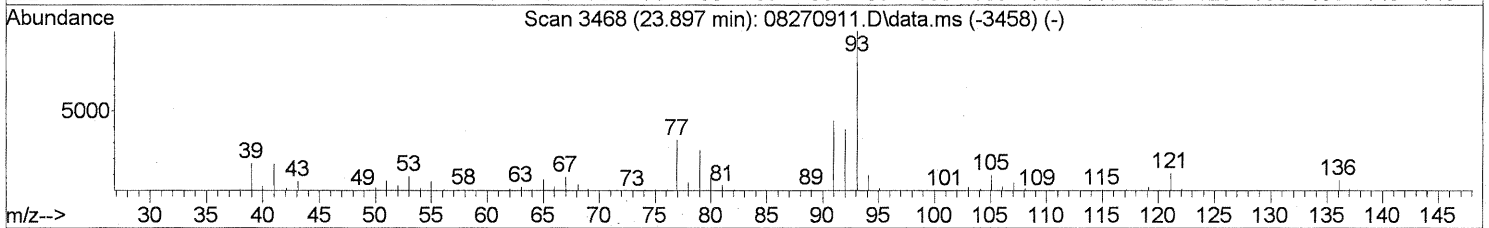
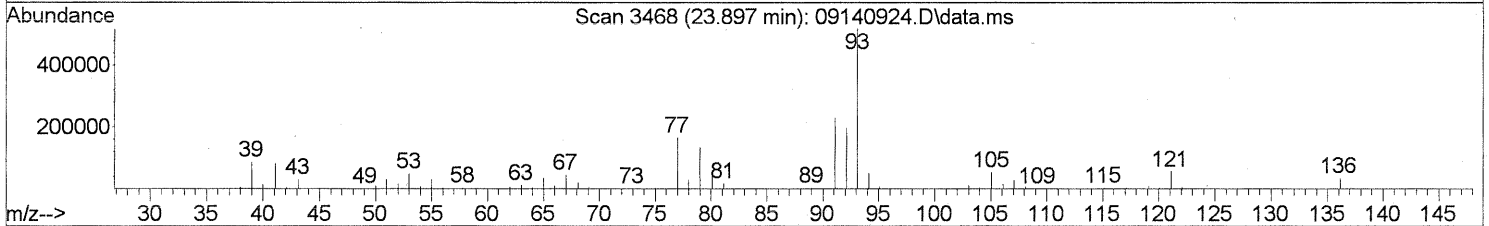
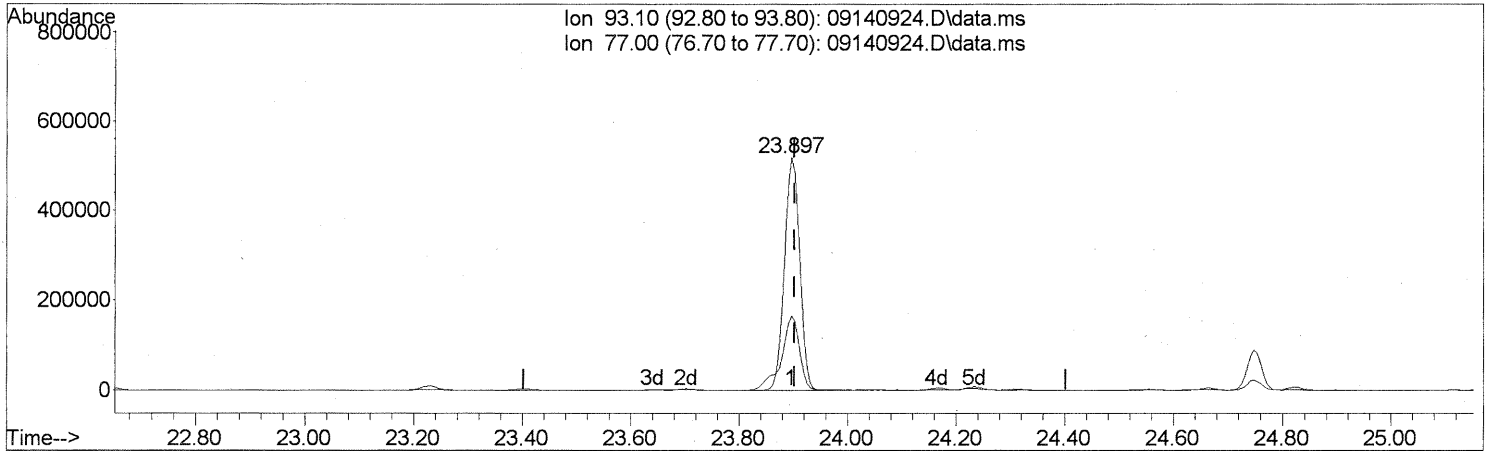
(11) Acetonitrile (T)
 7.331min (-0.075) 26.07ng
 response 789891

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	52.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140924.D
 Acq On : 15 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903141-004dil (200ml)
 Misc : EH&E 105017
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 15 11:09:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09140924.D\data.ms

(75) alpha-Pinene (T)
 23.897min (-0.006) 30.81ng
 response 1018072

Ion	Exp%	Act%
93.10	100	100
77.00	33.10	37.93
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: 105018
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01062

CAS Project ID: P0903141
CAS Sample ID: P0903141-005

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/11/09
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -0.5 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.30

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
115-07-1	Propene	6.3	0.65	3.7	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.65	0.61	0.13	
74-87-3	Chloromethane	0.79	0.13	0.38	0.063	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.65	ND	0.093	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.051	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.059	
74-83-9	Bromomethane	ND	0.13	ND	0.033	
75-00-3	Chloroethane	ND	0.13	ND	0.049	
64-17-5	Ethanol	390	6.5	210	3.5	
75-05-8	Acetonitrile	280	0.65	170	0.39	D
107-02-8	Acrolein	10	0.65	4.4	0.28	
67-64-1	Acetone	160	6.5	66	2.7	
75-69-4	Trichlorofluoromethane	1.6	0.13	0.28	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	33	0.65	13	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	0.042	
76-13-1	Trichlorotrifluoroethane	0.73	0.13	0.096	0.017	
75-15-0	Carbon Disulfide	1.7	0.65	0.53	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)	8.3	0.65	2.8	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.

D = The reported result is from a dilution.

Verified By: Per

Date: 9/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105018
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01062

CAS Project ID: P0903141
CAS Sample ID: P0903141-005

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/11/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -0.5 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.30

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.033	
141-78-6	Ethyl Acetate	4.3	0.65	1.2	0.18	
110-54-3	n-Hexane	32	0.65	9.2	0.18	
67-66-3	Chloroform	6.3	0.13	1.3	0.027	
109-99-9	Tetrahydrofuran (THF)	1.4	0.65	0.49	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	8.2	0.13	2.6	0.041	
56-23-5	Carbon Tetrachloride	1.0	0.13	0.16	0.021	
110-82-7	Cyclohexane	6.1	0.65	1.8	0.19	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.028	
75-27-4	Bromodichloromethane	1.9	0.13	0.29	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	12	0.65	3.0	0.16	
10061-01-5	cis-1,3-Dichloropropene	ND	0.65	ND	0.14	
108-10-1	4-Methyl-2-pentanone	2.1	0.65	0.50	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	47	0.65	12	0.17	
591-78-6	2-Hexanone	1.9	0.65	0.47	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	4.7	0.65	0.98	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: Re Date: 9/21/09 **190**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105018
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01062

CAS Project ID: P0903141
CAS Sample ID: P0903141-005

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/11/09
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -0.5 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.30

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	4.4	0.65	0.94	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	9.8	0.65	2.3	0.15	
179601-23-1	m,p-Xylenes	30	0.65	6.9	0.15	
75-25-2	Bromoform	ND	0.65	ND	0.063	
100-42-5	Styrene	3.3	0.65	0.77	0.15	
95-47-6	o-Xylene	11	0.65	2.4	0.15	
111-84-2	n-Nonane	2.3	0.65	0.44	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	2.6	0.65	0.53	0.13	
80-56-8	alpha-Pinene	190	0.65	34	0.12	D
103-65-1	n-Propylbenzene	2.0	0.65	0.40	0.13	
622-96-8	4-Ethyltoluene	3.4	0.65	0.70	0.13	
108-67-8	1,3,5-Trimethylbenzene	2.9	0.65	0.58	0.13	
95-63-6	1,2,4-Trimethylbenzene	11	0.65	2.2	0.13	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.025	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.022	
106-46-7	1,4-Dichlorobenzene	0.28	0.13	0.047	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.022	
5989-27-5	d-Limonene	43	0.65	7.8	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	0.088	
91-20-3	Naphthalene	2.3	0.65	0.45	0.12	
87-68-3	Hexachlorobutadiene	ND	0.65	ND	0.061	

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

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

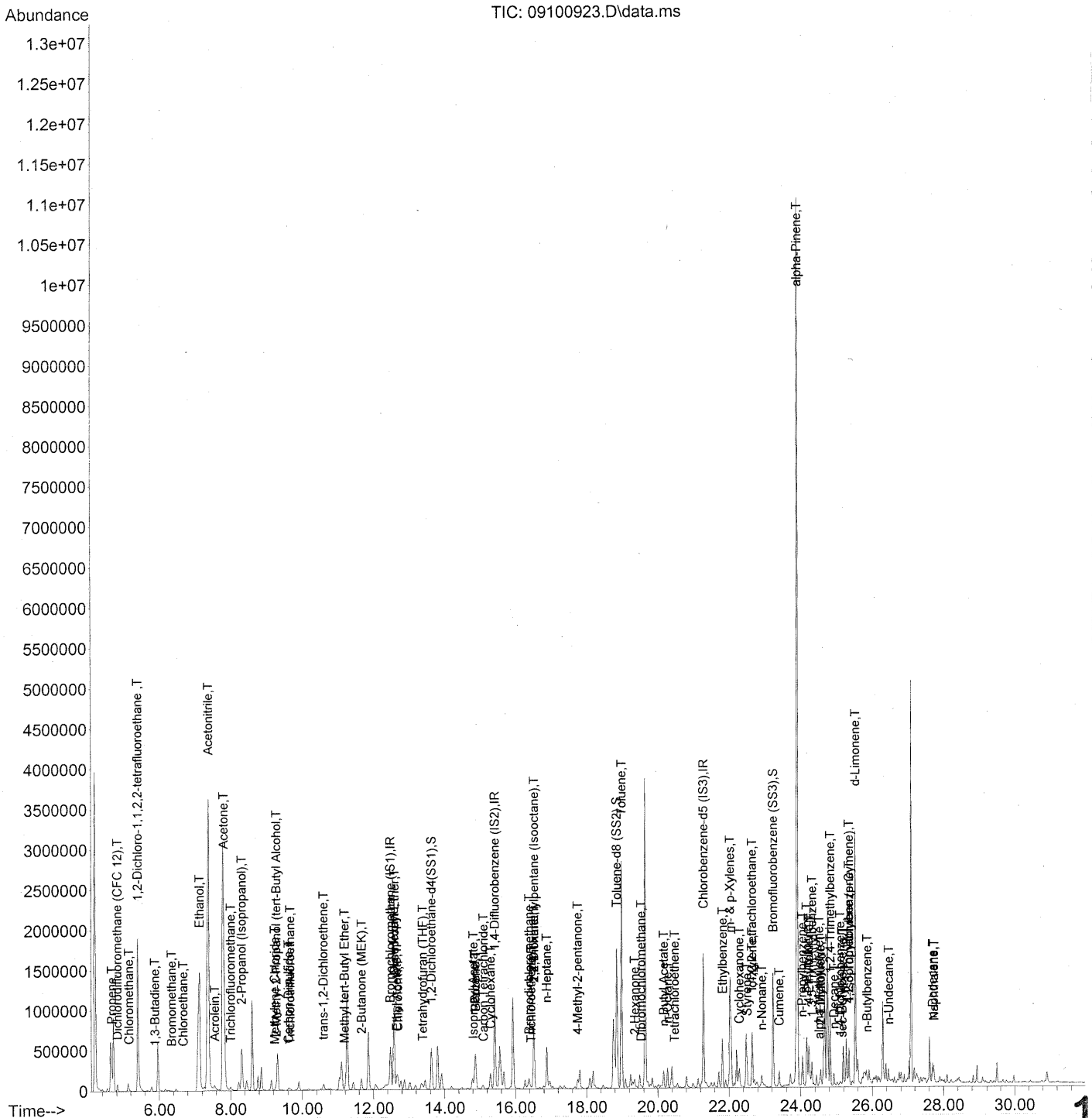
D = The reported result is from a dilution.

Verified By: *Re* Date: 9/21/09 **191**

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50 am
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 20:46:32 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50 am
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 20:46:32 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	268022	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1336065	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	679532	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	509671	23.996	ng	-0.02	
Spiked Amount	25.000			Recovery	=	96.00%	✓
57) Toluene-d8 (SS2)	18.84	98	1487334	24.491	ng	-0.02	
Spiked Amount	25.000			Recovery	=	97.96%	✓
73) Bromofluorobenzene (SS3)	23.23	174	462370	26.454	ng	0.00	
Spiked Amount	25.000			Recovery	=	105.80%	✓

Target Compounds

						Qvalue
2) Propene	4.66	42	93693	4.833 ng		97
3) Dichlorodifluoromethan...	4.82	85	78368	2.309 ng		98
4) Chloromethane	5.16	50	13853	0.607 ng		98
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	1075	0.077 ng		77
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	1189	0.074 ng		98
8) Bromomethane	6.35	94	938	0.071 ng		93
9) Chloroethane	6.68	64	776	0.066 ng	#	42
10) Ethanol	7.13	45	3629137	301.880 ng		99
11) Acetonitrile	7.38	41	6816962	204.150 ng	sec trip	99
12) Acrolein	7.56	56	70482	7.678 ng		98
13) Acetone	7.81	58	1490772	119.908 ng	#	76
14) Trichlorofluoromethane	8.01	101	36507	1.220 ng		97
15) 2-Propanol (Isopropanol)	8.31	45	1048504	25.368 ng		99
16) Acrylonitrile	0.00	53	0	N.D. d		
17) 1,1-Dichloroethene	8.99	96	87	N.D.		
18) 2-Methyl-2-Propanol (t...	9.28	59	17591	0.425 ng	#	1
19) Methylene Chloride	9.24	84	5649	0.358 ng		92
20) 3-Chloro-1-propene (Al...	9.49	41	373	N.D.		
21) Trichlorotrifluoroethane	9.67	151	6665	0.563 ng		98
22) Carbon Disulfide	9.62	76	71226	1.270 ng		99
23) trans-1,2-Dichloroethene	10.59	61	1439	0.064 ng	#	19
24) 1,1-Dichloroethane	11.04	63	1066	N.D.		
25) Methyl tert-Butyl Ether	11.19	73	3483	0.078 ng	#	53
26) Vinyl Acetate	0.00	86	0	N.D. d		
27) 2-Butanone (MEK)	11.66	72	64319	6.405 ng		95
28) cis-1,2-Dichloroethene	12.24	61	89	N.D.		
29) Diisopropyl Ether	12.59	87	7428	0.507 ng	#	1
30) Ethyl Acetate	12.66	61	17859	3.309 ng		89
31) n-Hexane	12.58	57	671633	24.984 ng		98

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50 am
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 20:46:32 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	129179	4.875 ng		95
34) Tetrahydrofuran (THF)	13.38	72	12069	1.108 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.	d	
38) 1,1,1-Trichloroethane	14.18	97	1049	N.D.		
39) Isopropyl Acetate	14.81	61	8614	0.848 ng	#	1
40) 1-Butanol	14.85	56	186508	11.215 ng	NR#	40
41) Benzene	14.87	78	397868	6.335 ng		100
42) Carbon Tetrachloride	15.09	117	16545	0.785 ng		99
43) Cyclohexane	15.29	84	108353	4.681 ng		95
44) tert-Amyl Methyl Ether	15.84	73	1492	N.D.		
45) 1,2-Dichloropropane	16.11	63	604	N.D.		
46) Bromodichloromethane	16.38	83	30712	1.484 ng	#	49
47) Trichloroethene	16.44	130	939	0.061 ng		99
48) 1,4-Dioxane	16.52	88	703	0.058 ng	#	1
49) 2,2,4-Trimethylpentane...	16.52	57	905349	12.666 ng		96
50) Methyl Methacrylate	0.00	100	0	N.D.	d	
51) n-Heptane	16.88	71	154953	9.519 ng		97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.75	58	22661	1.580 ng		99
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.56	97	409	N.D.		
58) Toluene	18.98	91	2343870	35.834 ng		99
59) 2-Hexanone	19.35	43	58833m	1.472 ng		
60) Dibromochloromethane	19.53	129	1402	0.085 ng		98
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.16	43	164139	3.579 ng		95
63) n-Octane	20.27	57	50662	3.366 ng		98
64) Tetrachloroethene	20.47	166	1058	0.064 ng	#	54
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	21.82	91	565030	7.553 ng		100
67) m- & p-Xylenes	22.03	91	1362762	22.881 ng		99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	110420	2.518 ng		98
70) o-Xylene	22.65	91	489364	8.180 ng		100
71) n-Nonane	22.91	43	63566m	1.768 ng		
72) 1,1,2,2-Tetrachloroethane	22.64	83	1604	0.058 ng	#	1
74) Cumene	23.40	105	151423	1.997 ng		100
75) alpha-Pinene	23.90	93	5355984	136.181 ng	See A-1	92
76) n-Propylbenzene	24.04	91	146083	1.517 ng		84
77) 3-Ethyltoluene	24.17	105	407273	5.615 ng		99
78) 4-Ethyltoluene	24.22	105	188511	2.633 ng		100
79) 1,3,5-Trimethylbenzene	24.31	105	131404	2.205 ng		100

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50 am
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 20:46:32 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

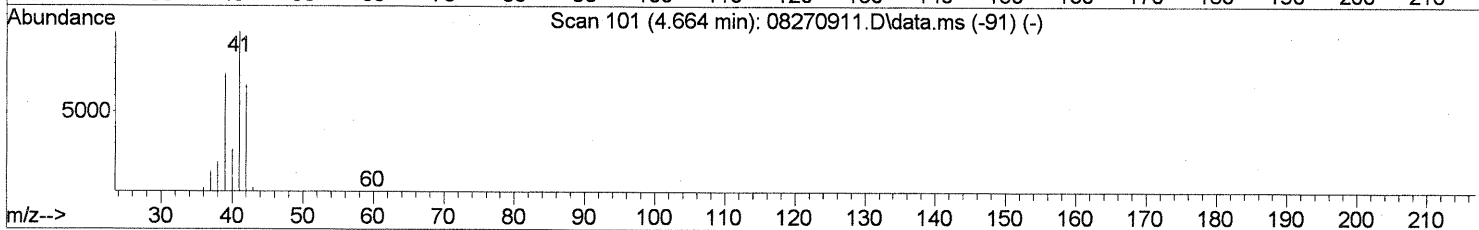
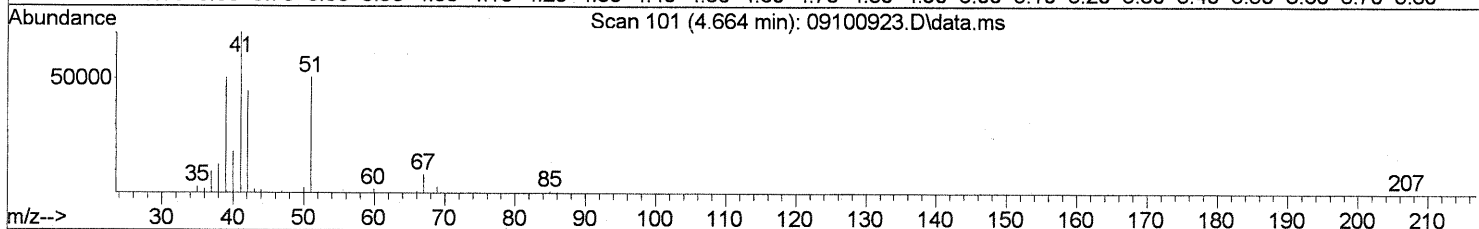
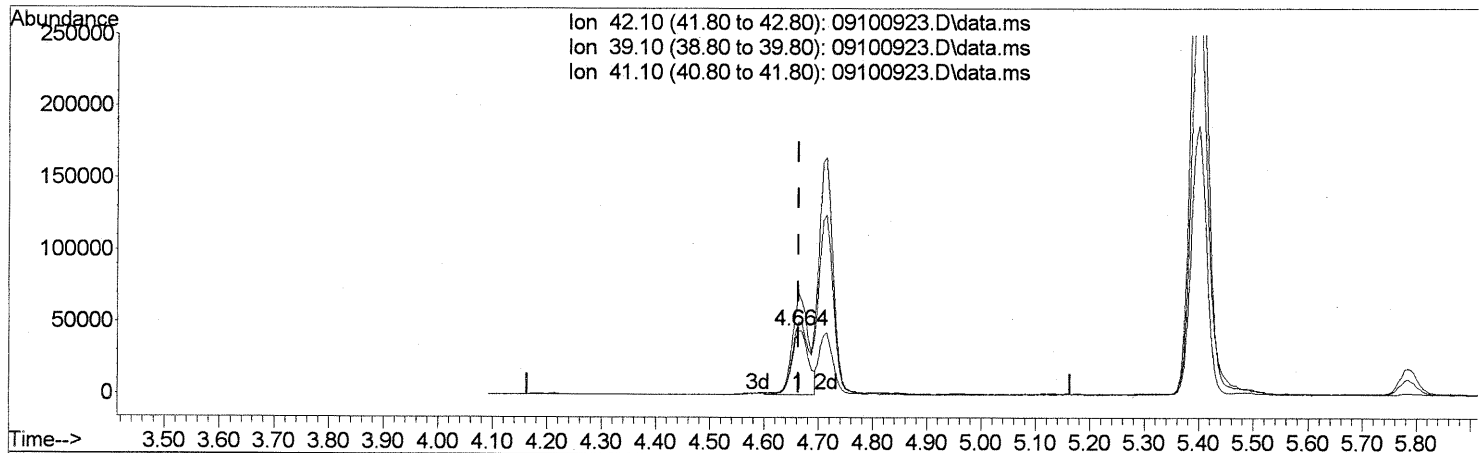
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	3373	0.108	ng	# 42
81) 2-Ethyltoluene	24.55	105	124763	1.676	ng	100
82) 1,2,4-Trimethylbenzene	24.82	105	500854	8.234	ng	91
83) n-Decane	24.93	57	57022	1.570	ng	91
84) Benzyl Chloride	24.99	91	970	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.10	146	7423	0.217	ng	100
87) sec-Butylbenzene	25.16	105	9466	0.114	ng	# 77
88) 4-Isopropyltoluene (p-...	25.35	119	169148	2.259	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	113629	1.782	ng	97
90) 1,2-Dichlorobenzene	25.52	146	86	N.D.		
91) d-Limonene	25.53	68	810127	33.365	ng	88
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	60134	1.595	ng	92
94) 1,2,4-Trichlorobenzene	27.58	180	97	N.D.		
95) Naphthalene	27.72	128	151319	1.800	ng	95
96) n-Dodecane	27.69	57	73889	1.719	ng	95
97) Hexachlorobutadiene	0.00	225	0	N.D.	✓	
98) Cyclohexanone	22.29	55	127707	5.064	ng	# 91
99) tert-Butylbenzene	25.07	119	552	N.D.		
100) n-Butylbenzene	25.86	91	52861	0.780	ng	# 63

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

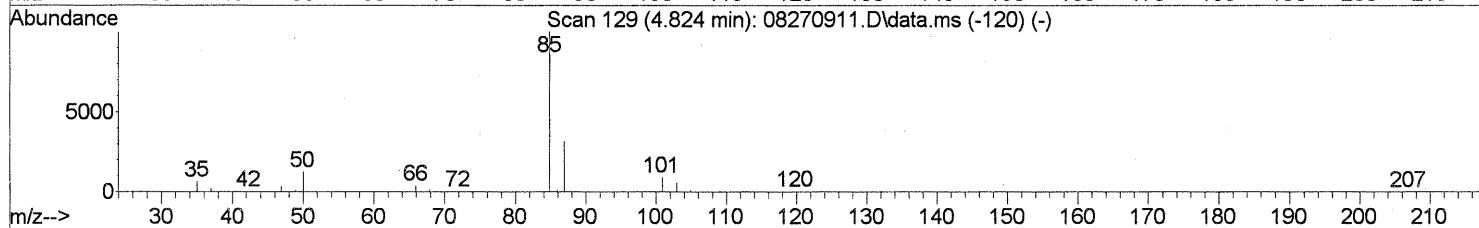
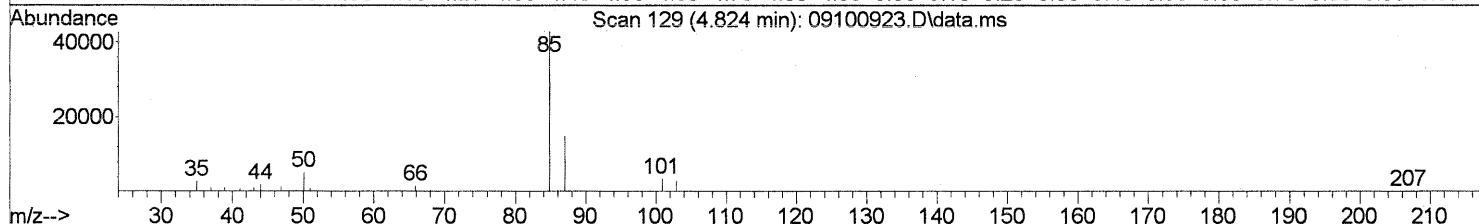
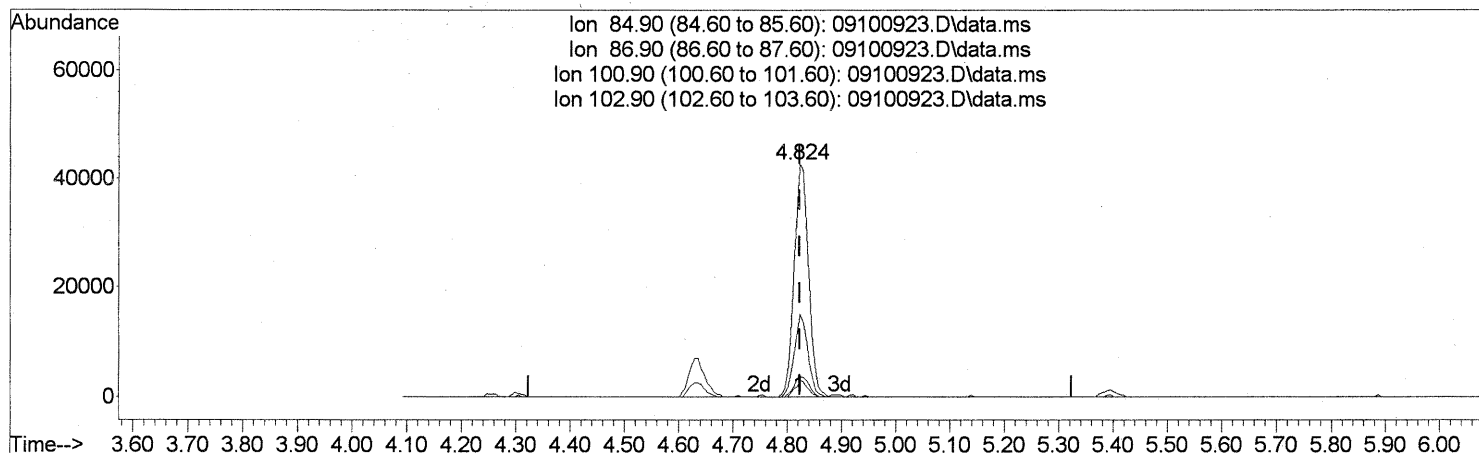
(2) Propene (T)
 4.664min (+0.000) 4.83ng
 response 93693

Ion	Exp%	Act%
42.10	100	100
39.10	109.70	108.47
41.10	149.80	143.36
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 09100923.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.824min (+0.000) 2.31ng

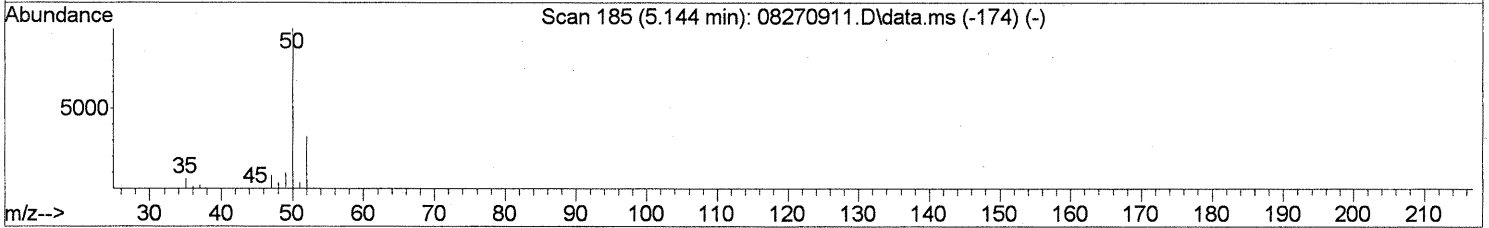
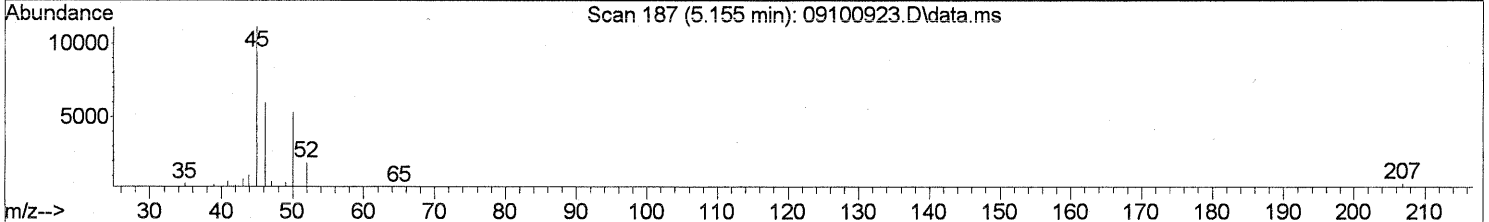
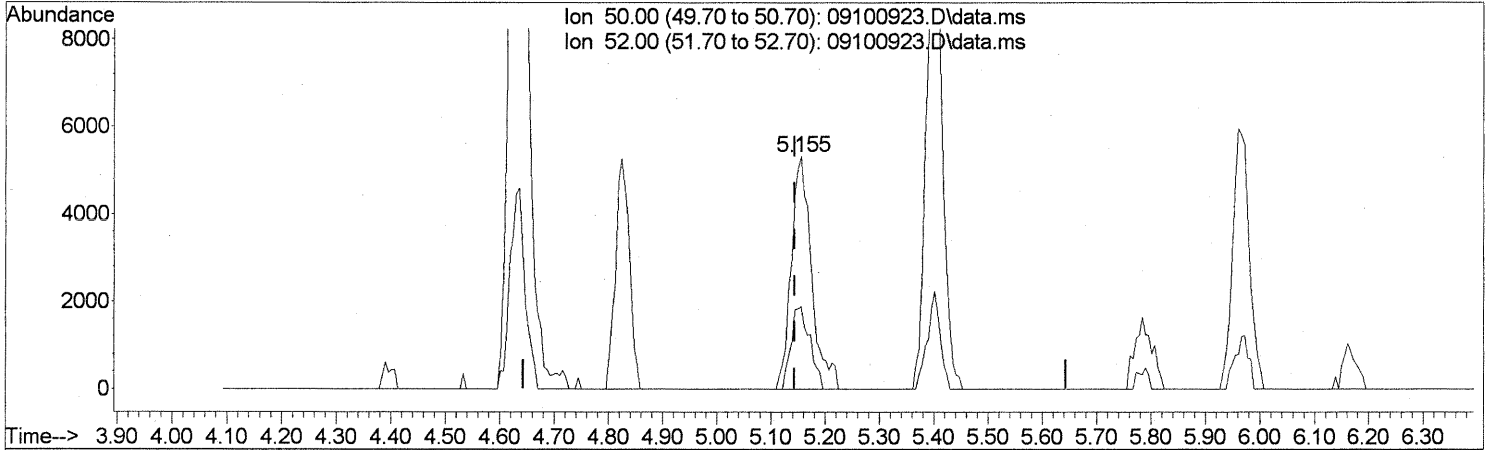
response 78368

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	33.47
100.90	8.80	8.89
102.90	5.60	6.01

Quantitation Report (Qedit)

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 ALS Vial : 7 Sample Multiplier: 1

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TIC: 09100923.D\data.ms

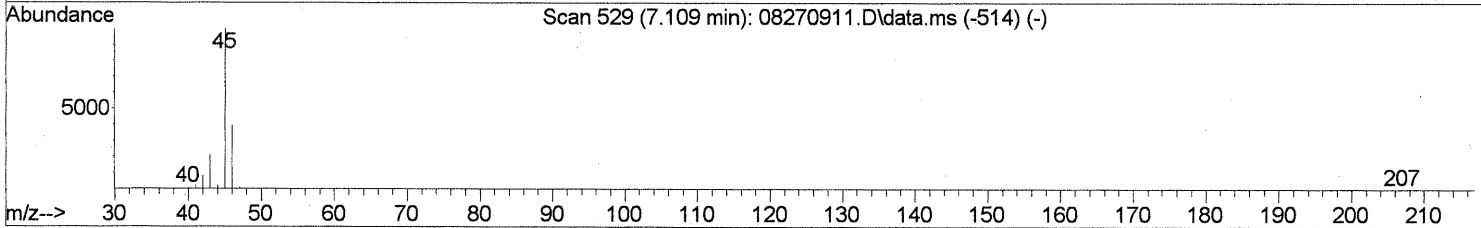
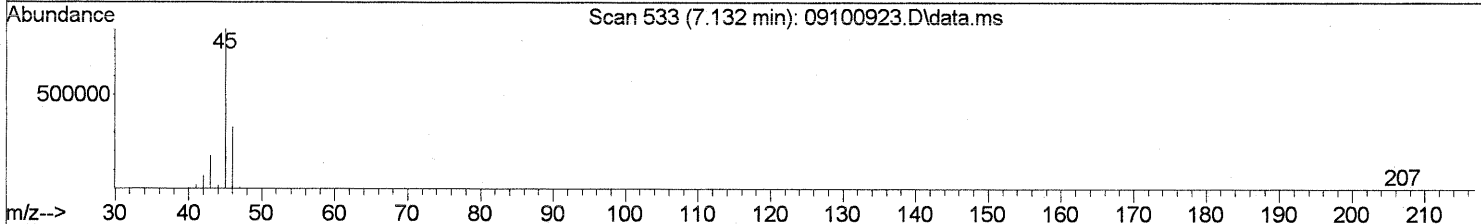
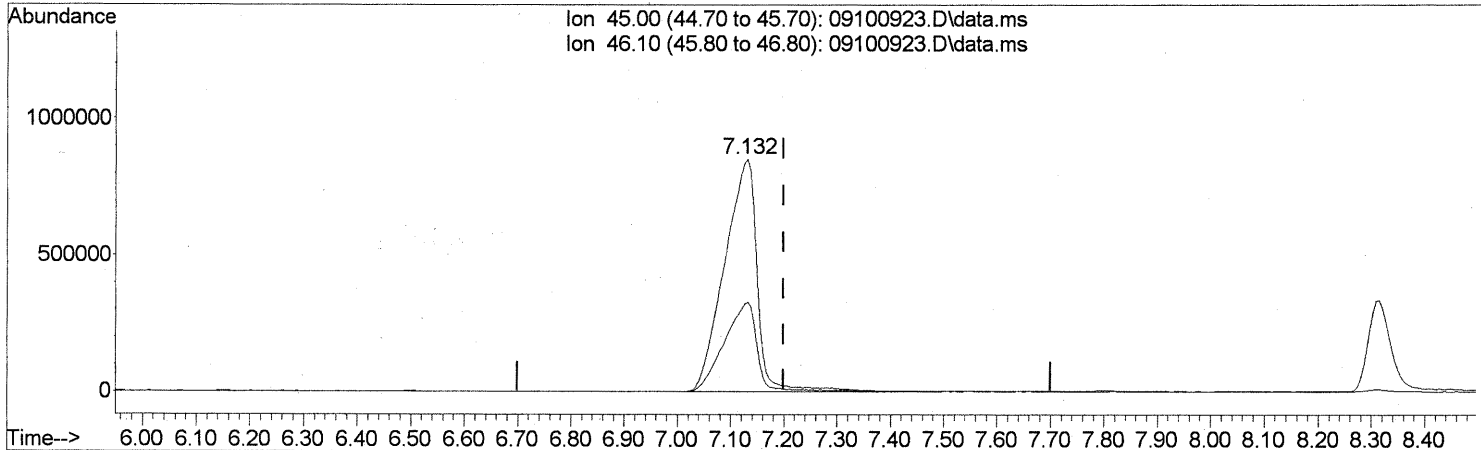
(4) Chloromethane (T)
 5.155min (+0.012) 0.61ng
 response 13853

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	32.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
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 Misc : EH&E 105018
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Quant Time: Sep 11 08:32:19 2009
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TIC: 09100923.D\data.ms

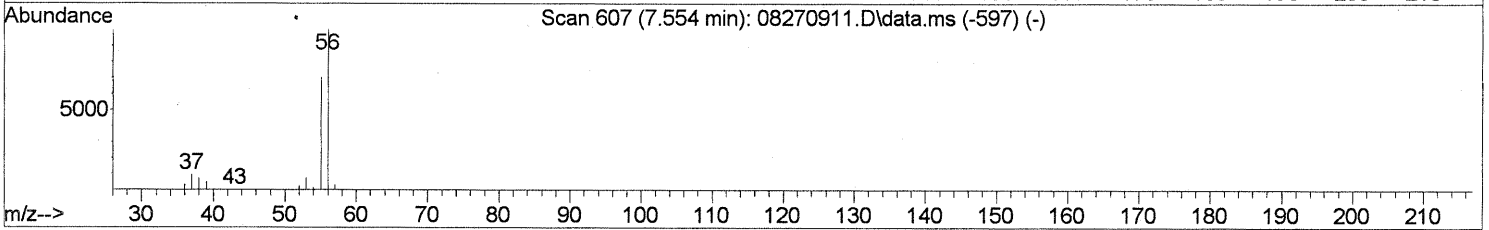
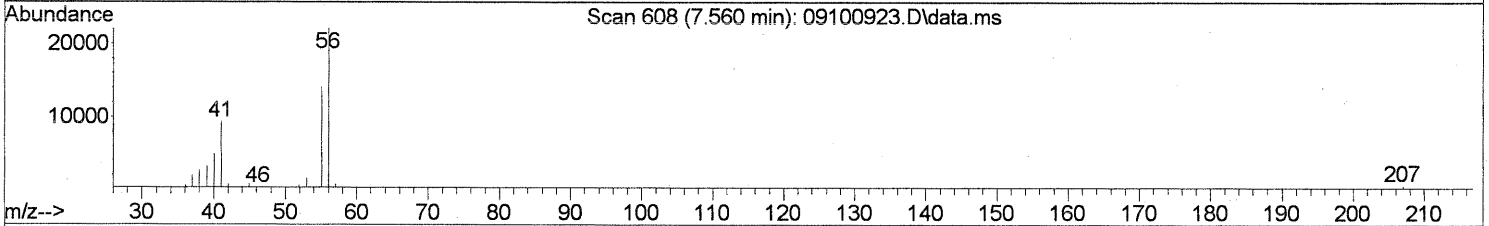
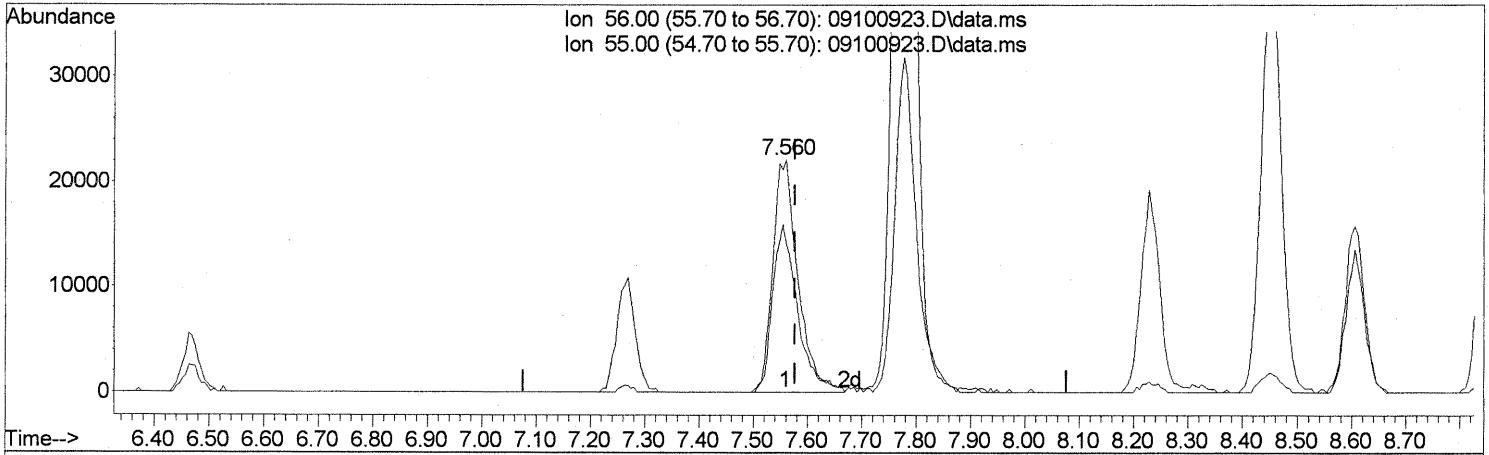
(10) Ethanol (T)
 7.132min (-0.068) 301.88ng
 response 3629137

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	38.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
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 Misc : EH&E 105018
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TIC: 09100923.D\data.ms

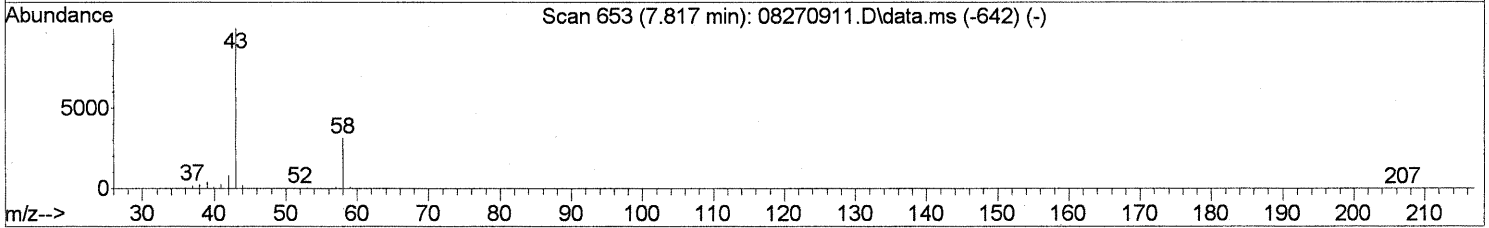
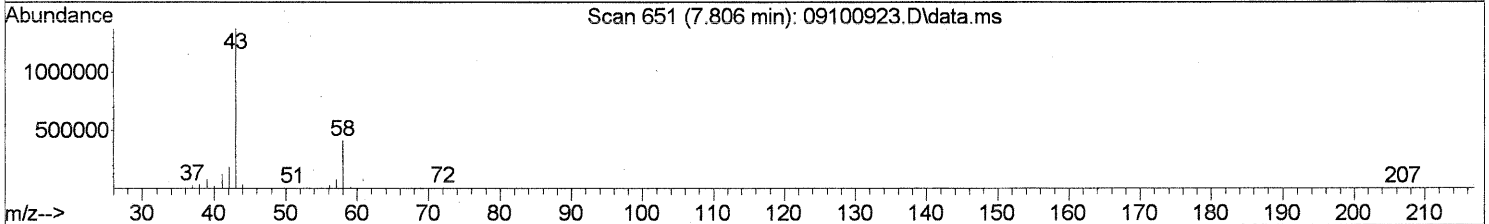
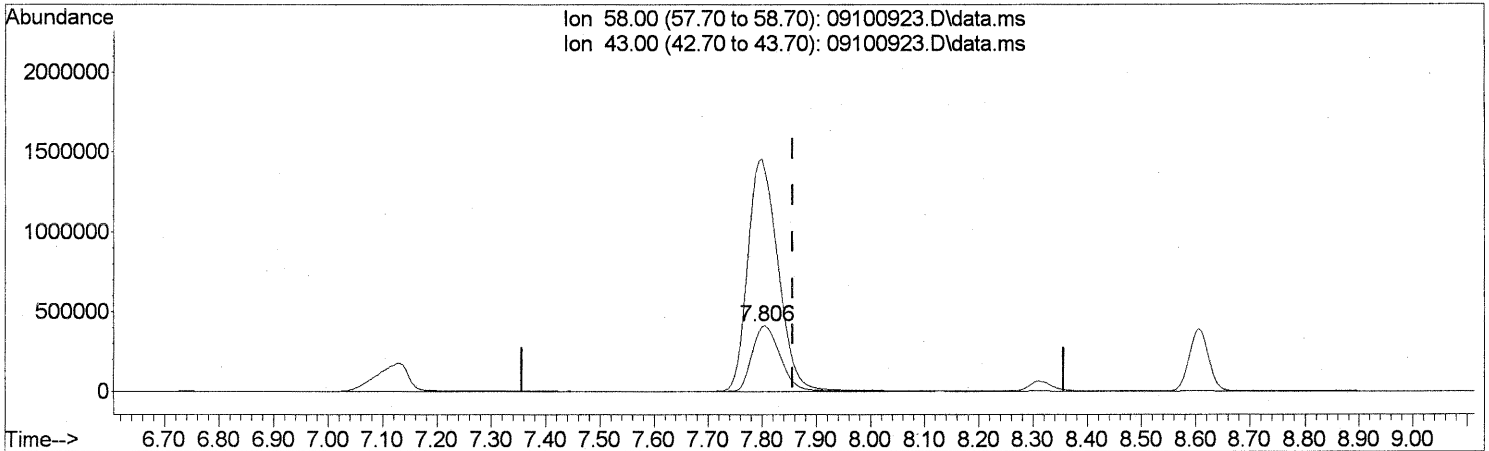
(12) Acrolein (T)
 7.560min (-0.017) 7.68ng
 response 70482

Ion	Exp%	Act%
56.00	100	100
55.00	71.10	72.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Operator : LM/CC
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 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
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TIC: 09100923.D\data.ms

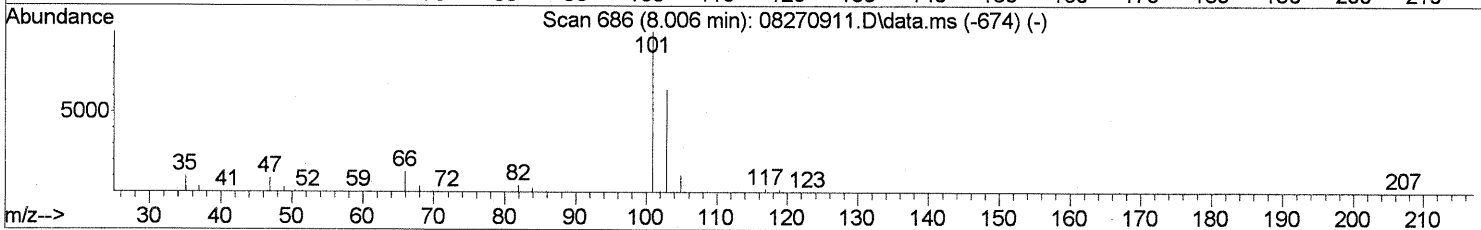
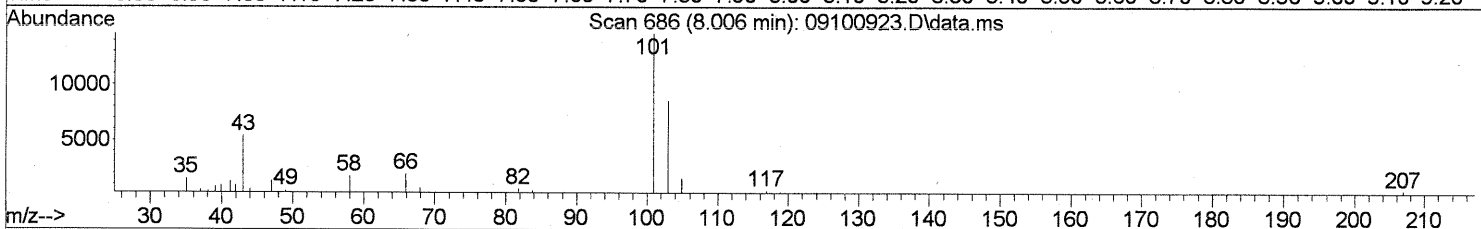
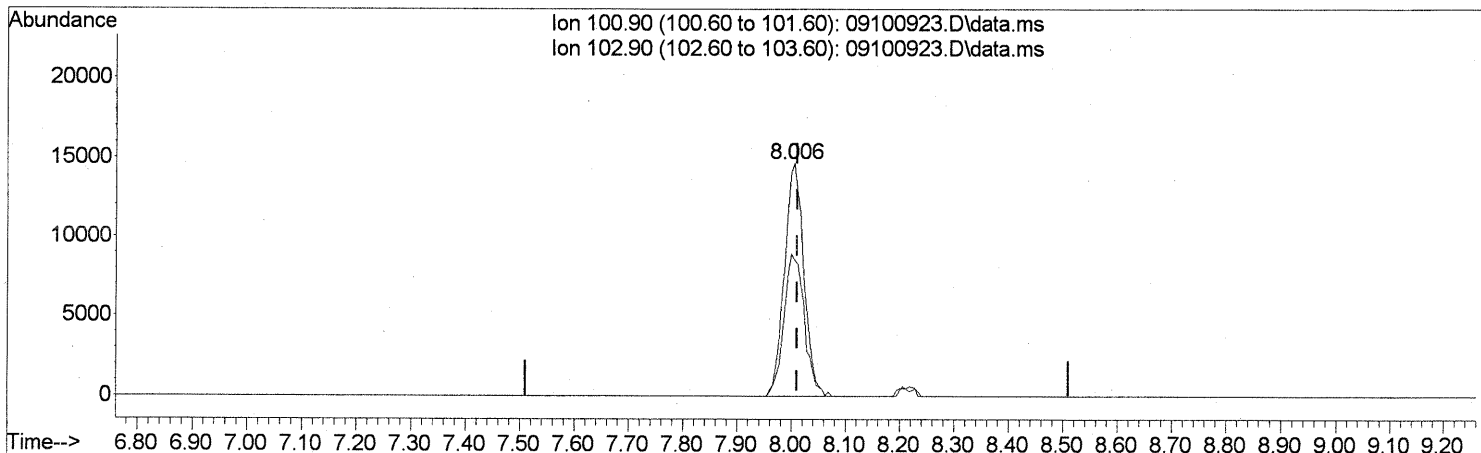
(13) Acetone (T)
 7.806min (-0.051) 119.91ng
 response 1490772

Ion	Exp%	Act%
58.00	100	100
43.00	331.30	382.10#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
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TIC: 09100923.D\data.ms

(14) Trichlorofluoromethane (T)

8.006min (-0.006) 1.22ng

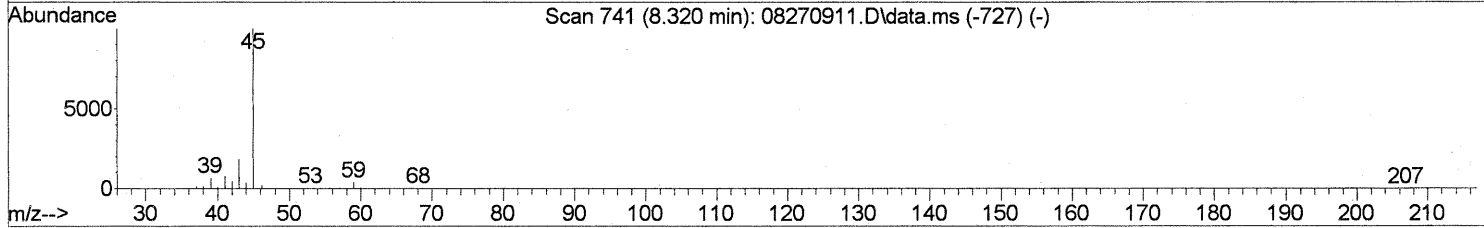
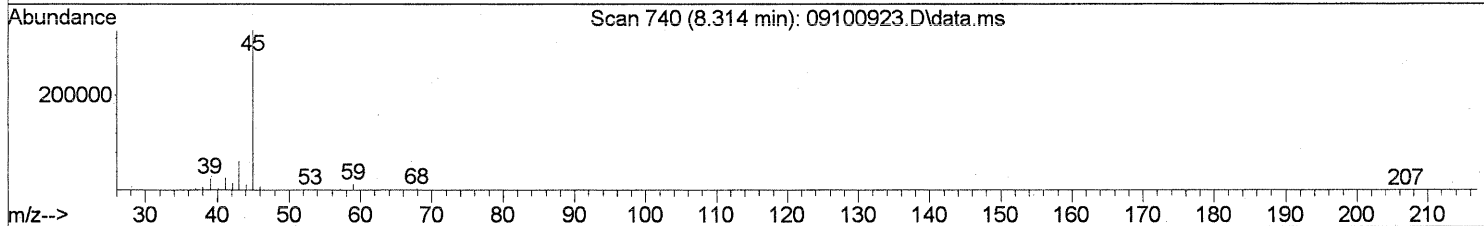
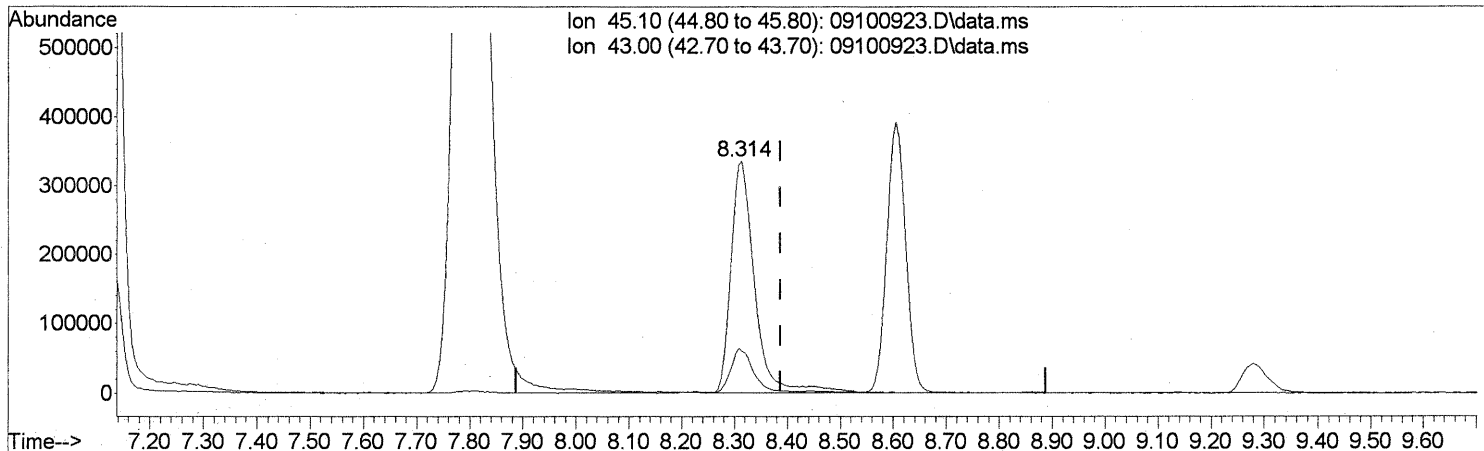
response 36507

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	63.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

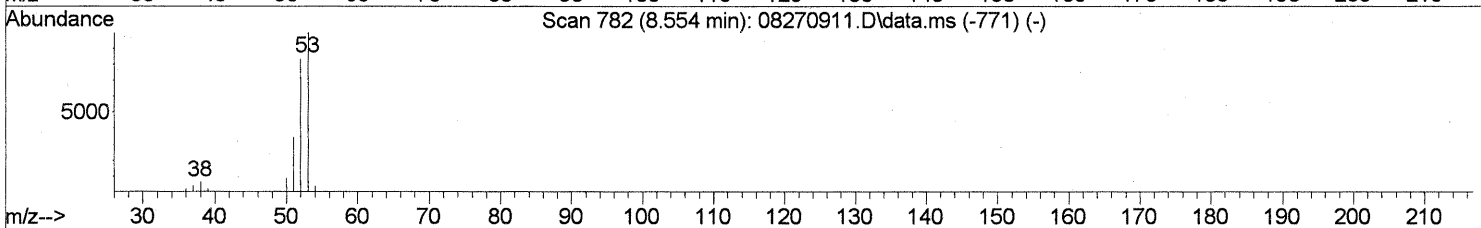
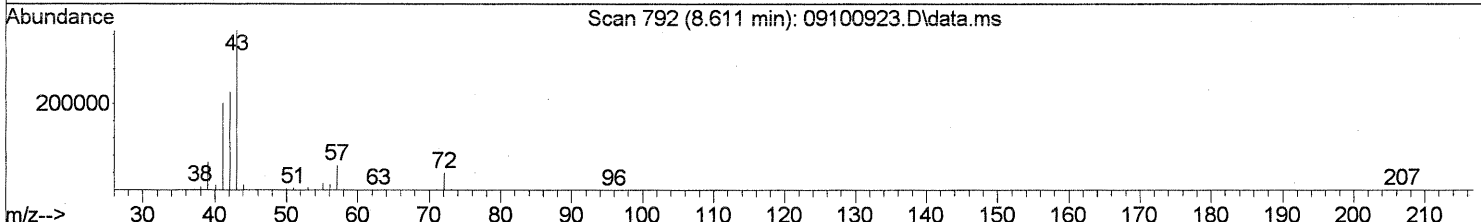
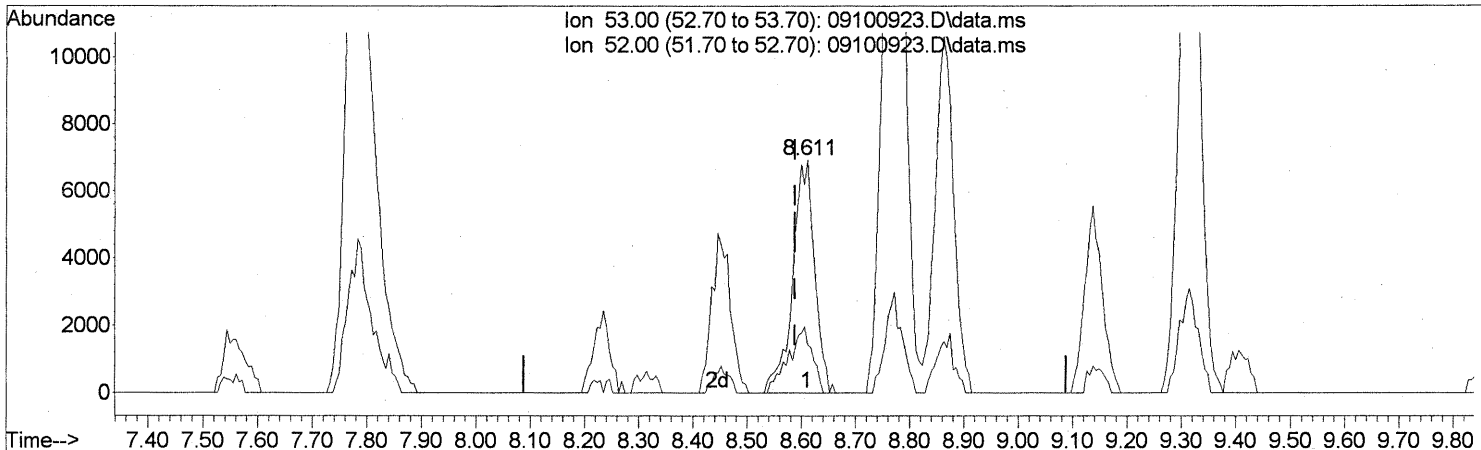
(15) 2-Propanol (Isopropanol) (T)
 8.314min (-0.074) 25.37ng
 response 1048504

Ion	Exp%	Act%
45.10	100	100
43.00	18.70	18.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : 09100923.D
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 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

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 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(16) Acrylonitrile (T)
 8.611min (+0.023) 0.95ng
 response 19590

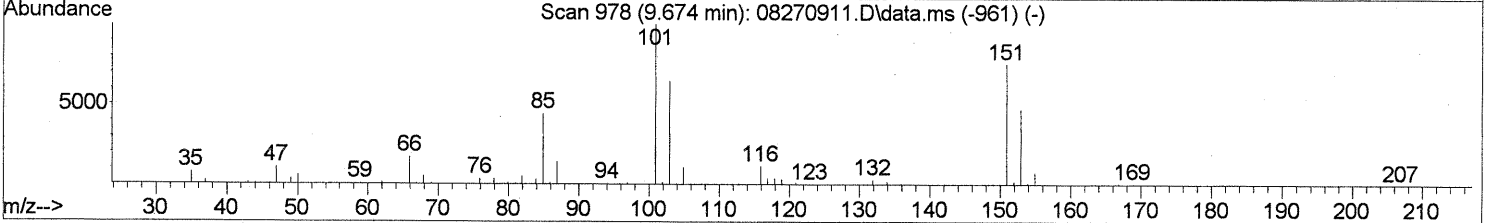
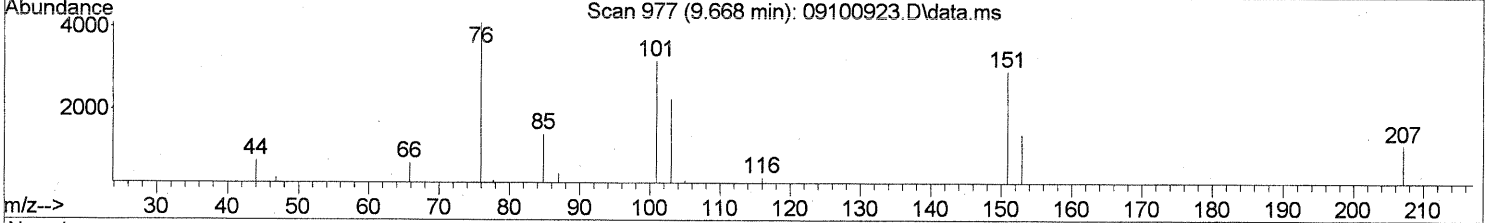
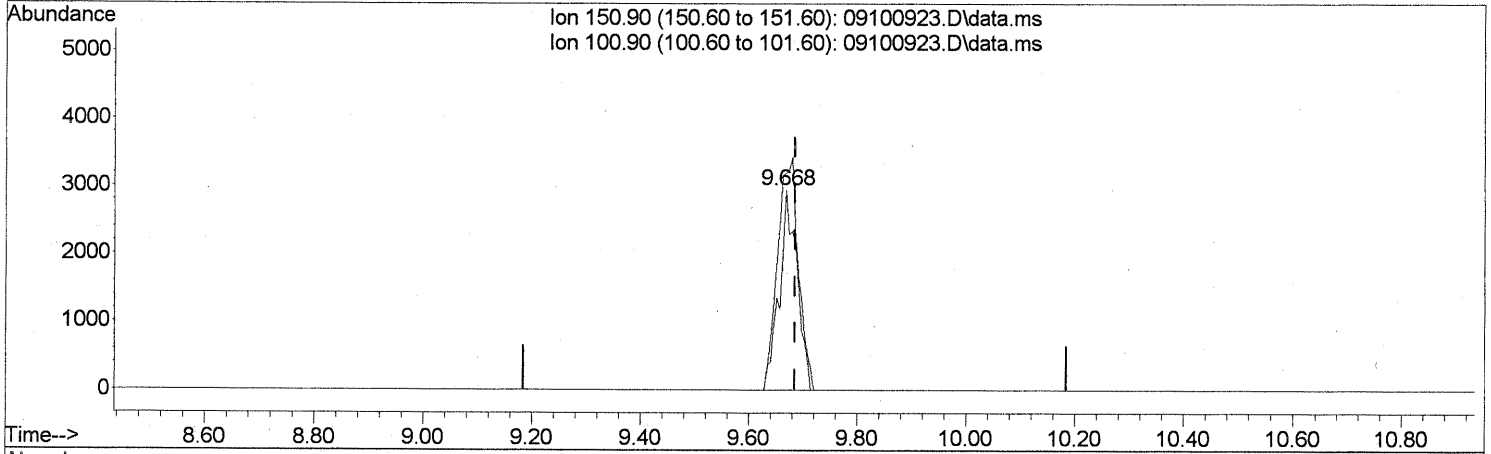
Ion	Exp%	Act%
53.00	100	100
52.00	80.50	30.45#
0.00	0.00	0.00
0.00	0.00	0.00

FP
LM 9/20/09
Cam 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

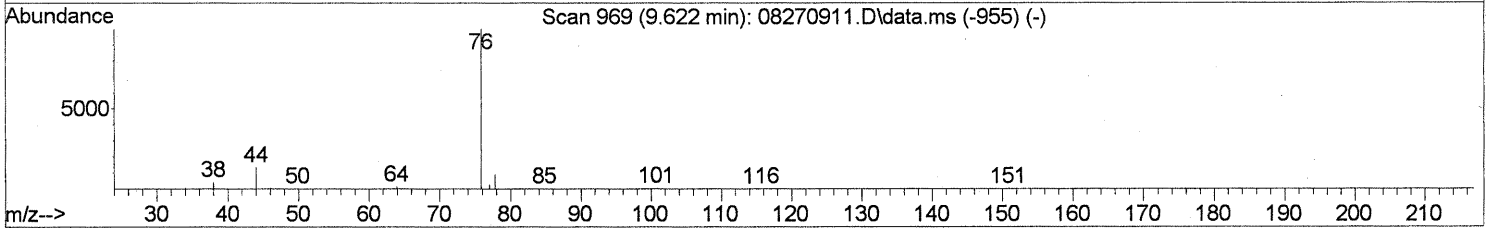
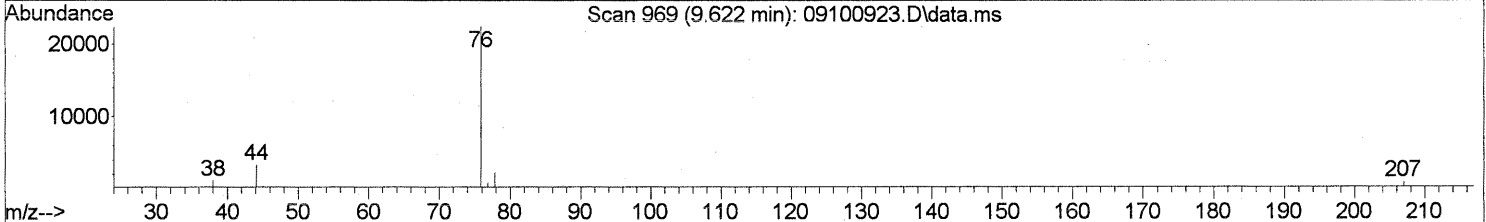
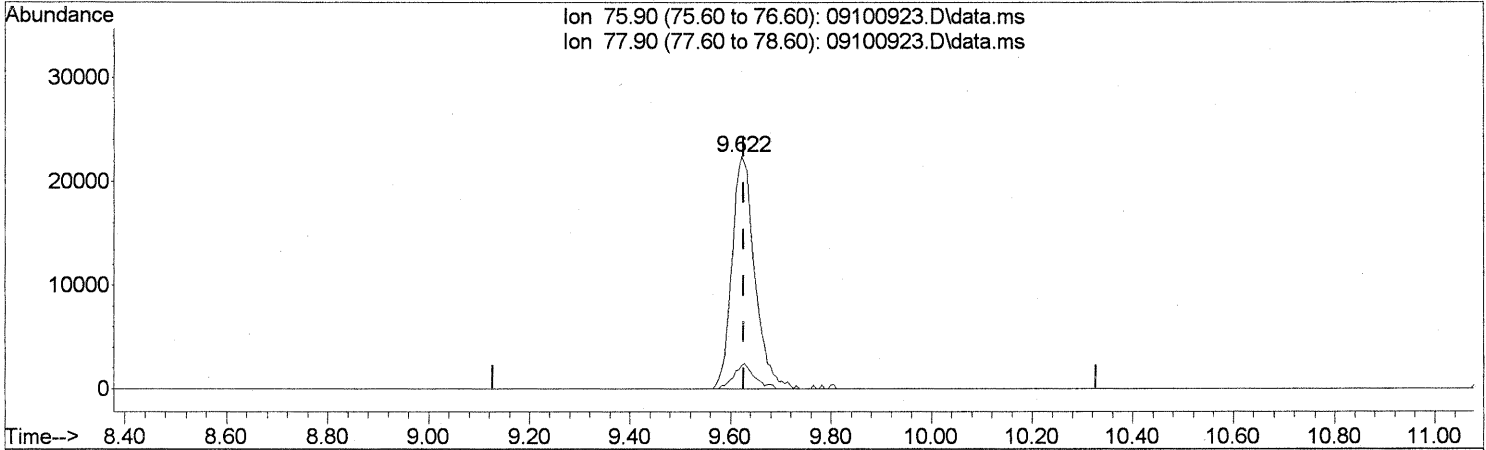
(21) Trichlorotrifluoroethane (T)
 9.668min (-0.017) 0.56ng
 response 6665

Ion	Exp%	Act%
150.90	100	100
100.90	138.30	136.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
Data File : 09100923.D
Acq On : 11 Sep 2009 1:50
Operator : LM/CC
Sample : P0903141-005 (1000ml)
Misc : EH&E 105018
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



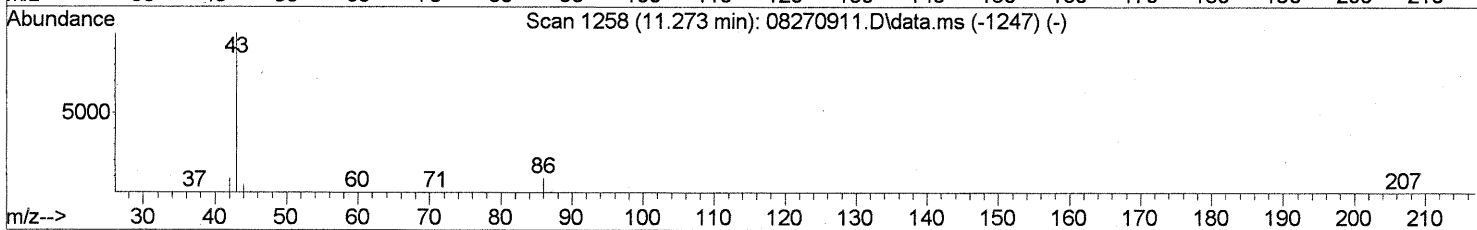
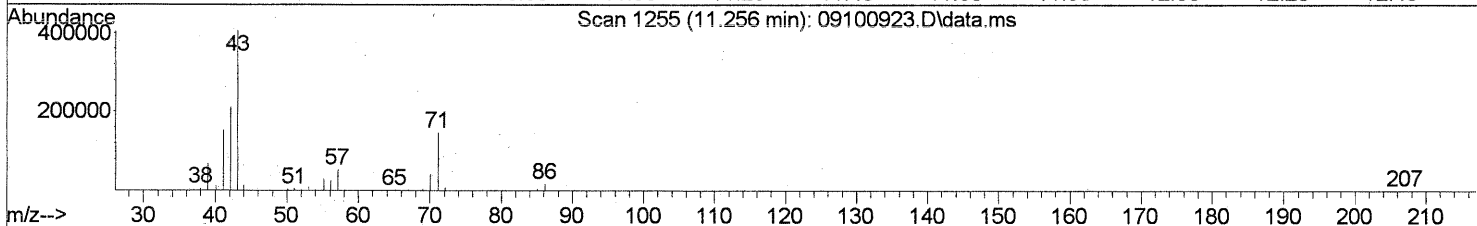
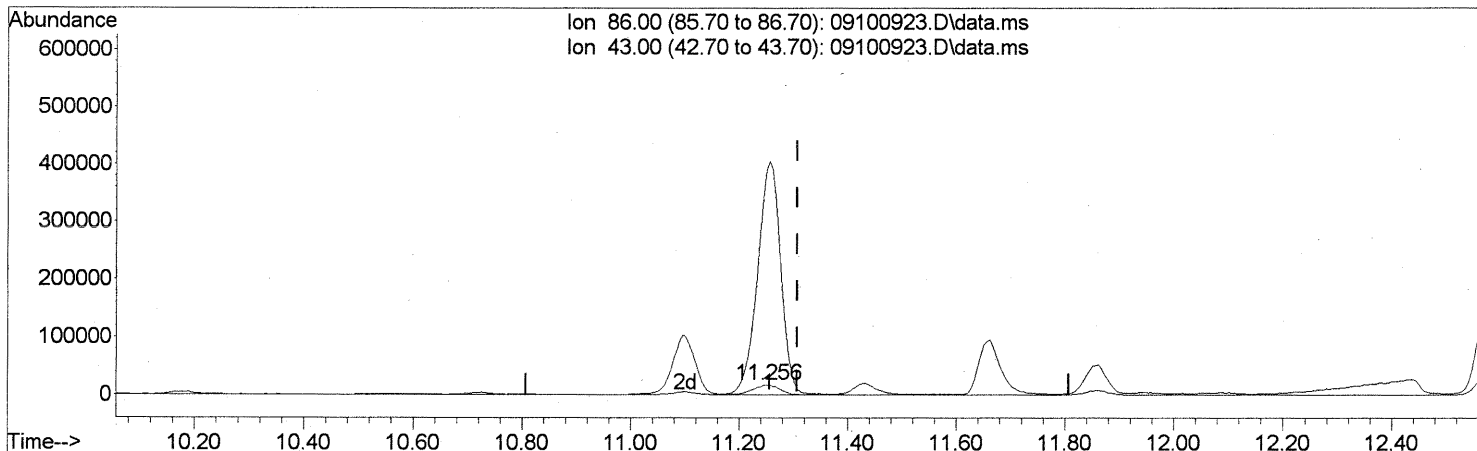
TIC: 09100923.D\data.ms

(22) Carbon Disulfide (T)		
9.622min (-0.006) 1.27ng		
response 71226		
Ion	Exp%	Act%
75.90	100	100
77.90	9.40	9.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(26) Vinyl Acetate (T)
 11.256min (-0.051) 17.92ng
 response 55834

Ion	Exp%	Act%
86.00	100	100
43.00	1118.60	2128.64#
0.00	0.00	0.00
0.00	0.00	0.00

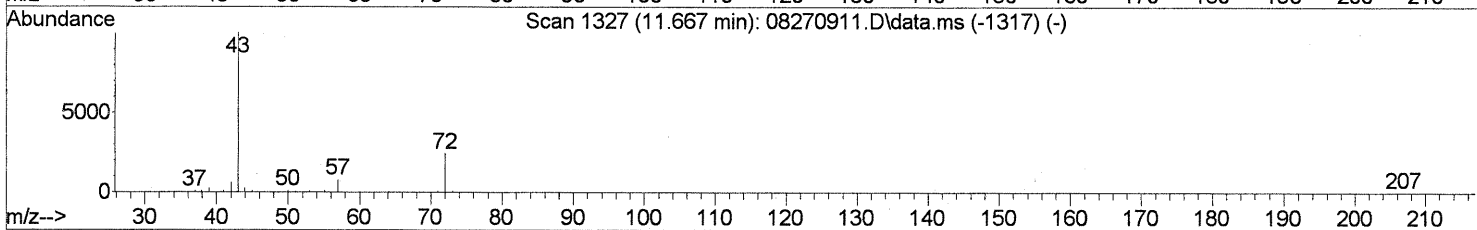
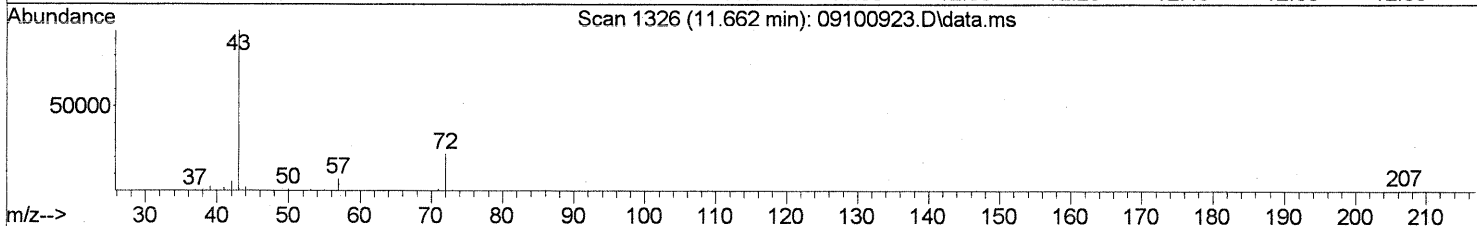
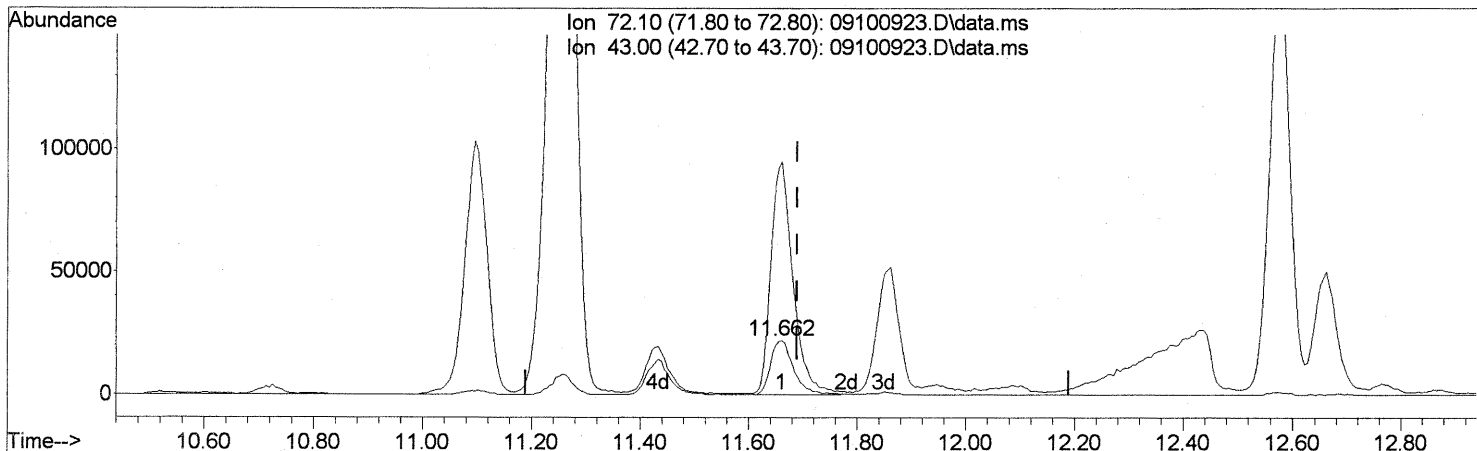
FP
LM 9/20/09

Ben 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

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

11.662min (-0.028) 6.40ng

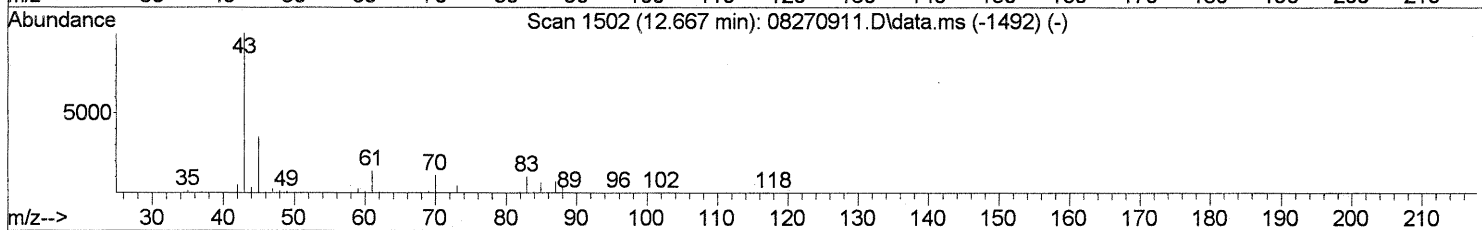
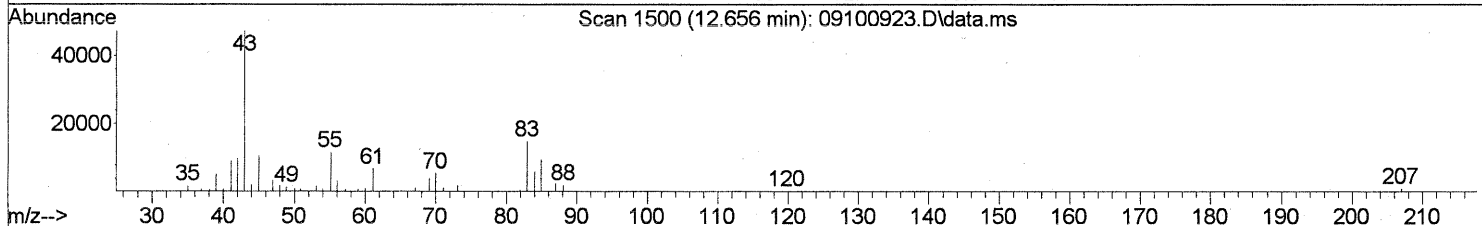
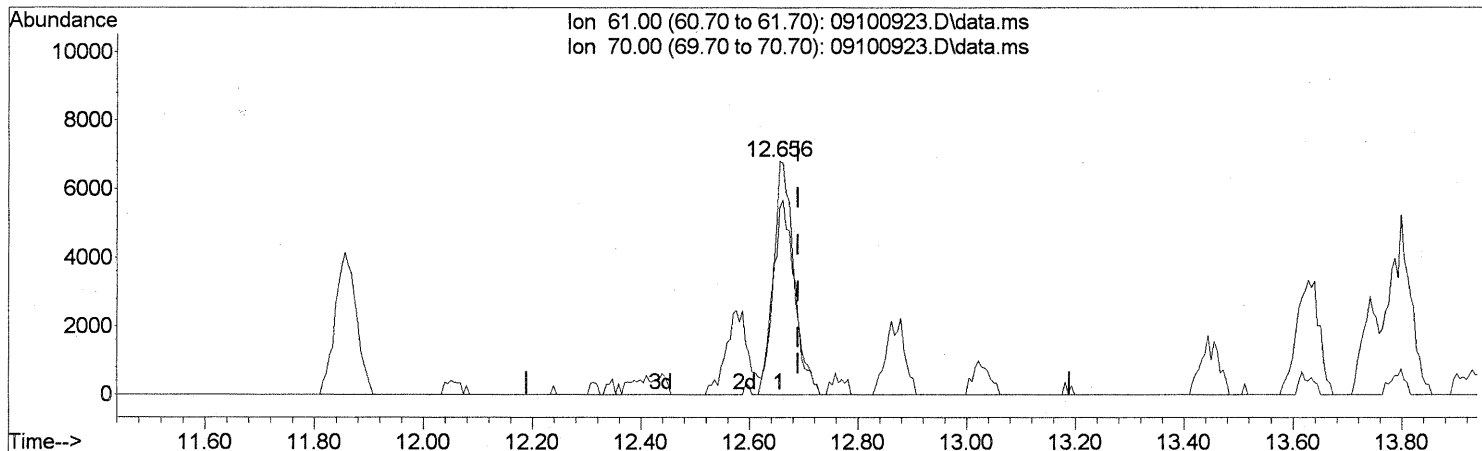
response 64319

Ion	Exp%	Act%
72.10	100	100
43.00	424.60	412.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

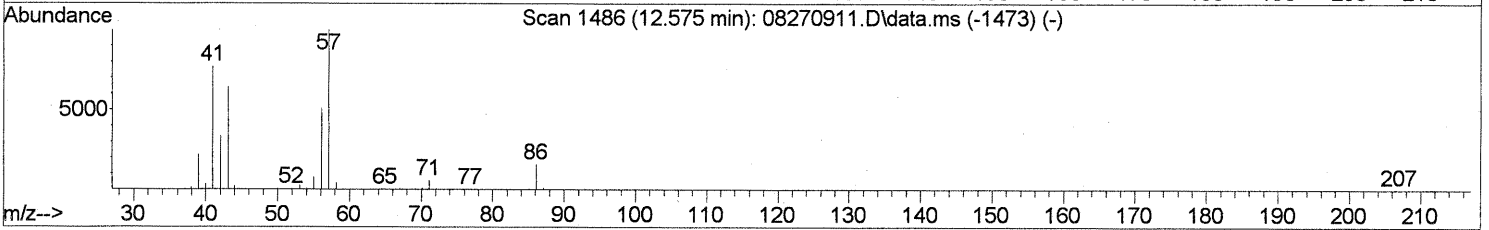
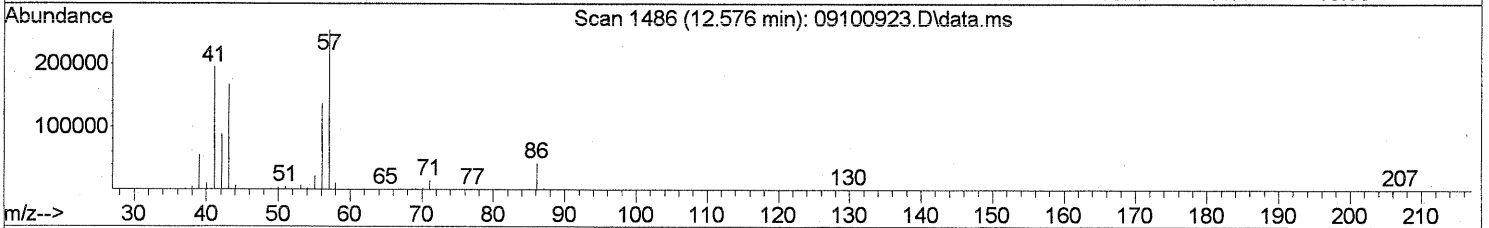
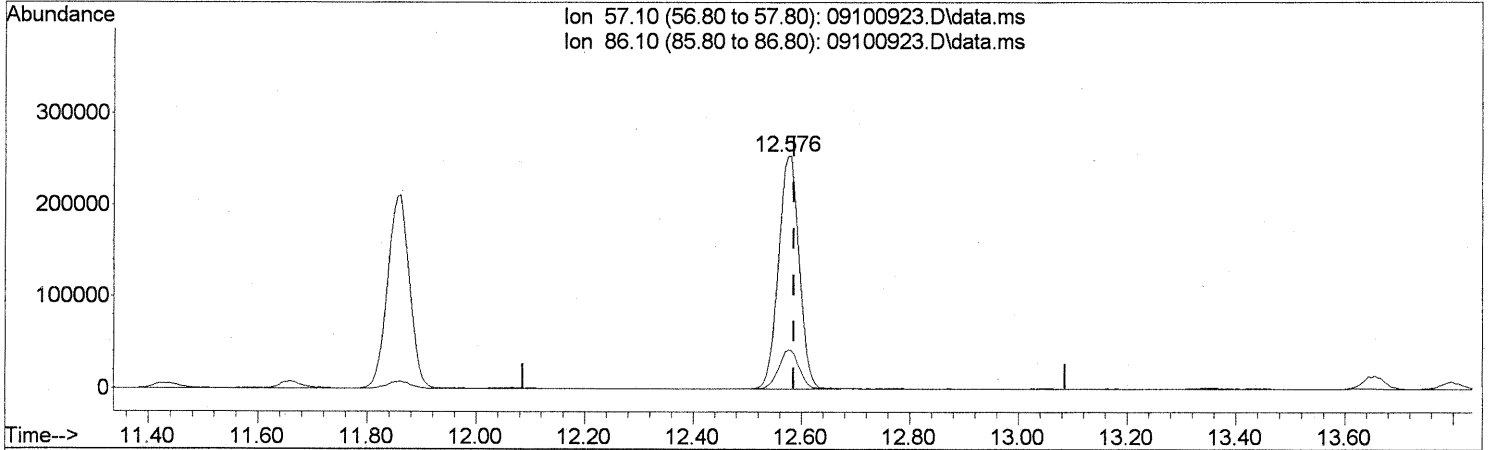
(30) Ethyl Acetate (T)
 12.656min (-0.034) 3.31ng
 response 17859

Ion	Exp%	Act%
61.00	100	100
70.00	78.70	88.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

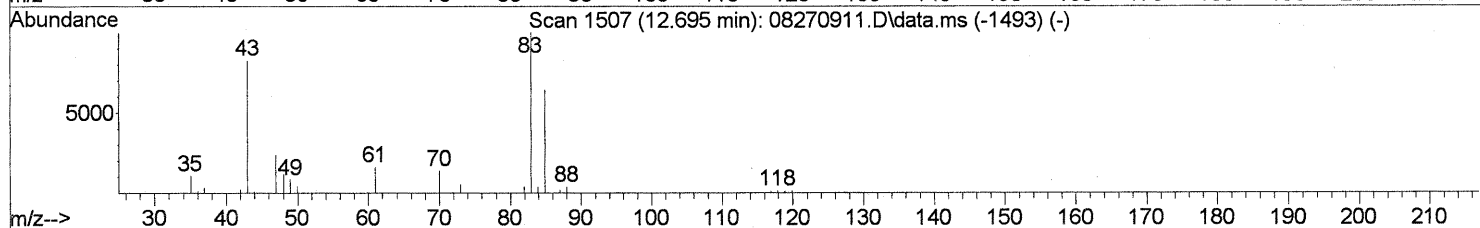
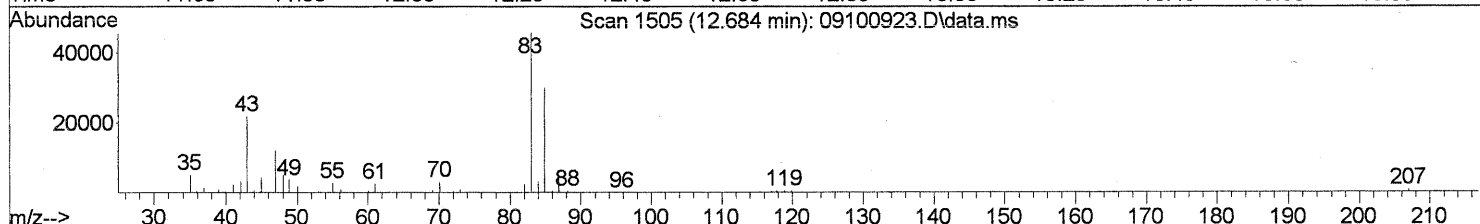
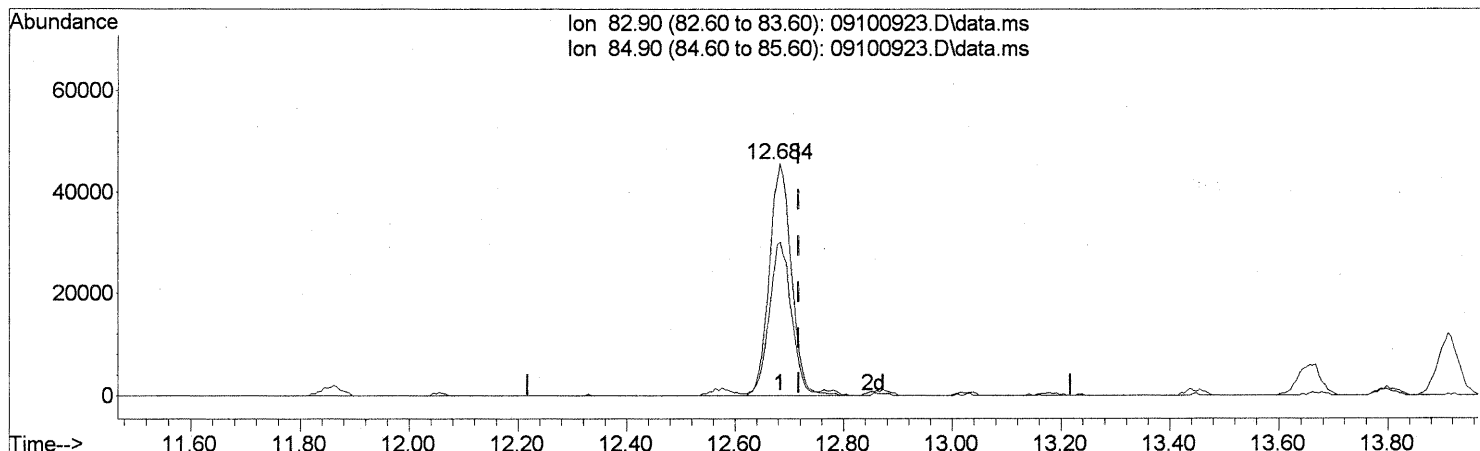
(31) n-Hexane (T)
 12.576min (-0.011) 24.98ng
 response 671633

Ion	Exp%	Act%
57.10	100	100
86.10	15.40	16.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

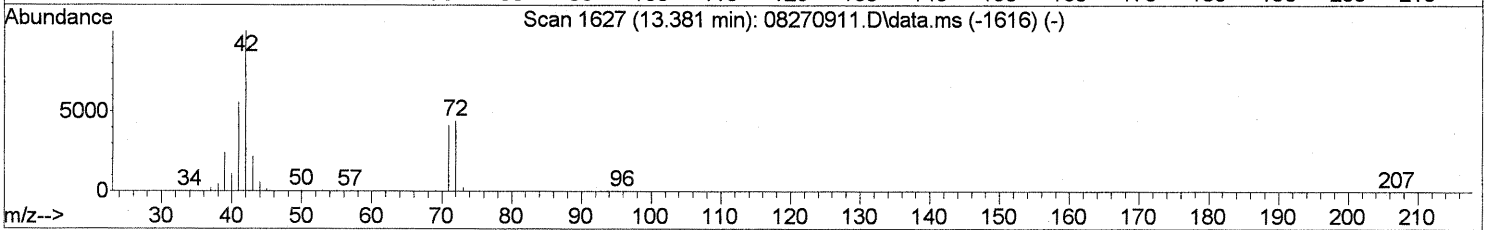
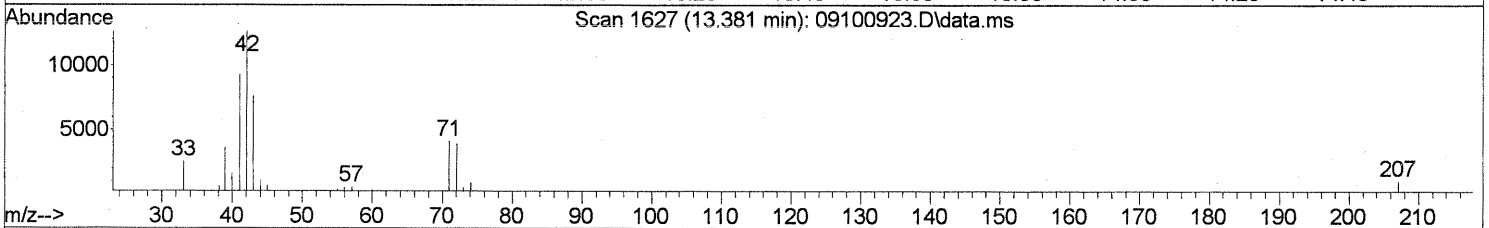
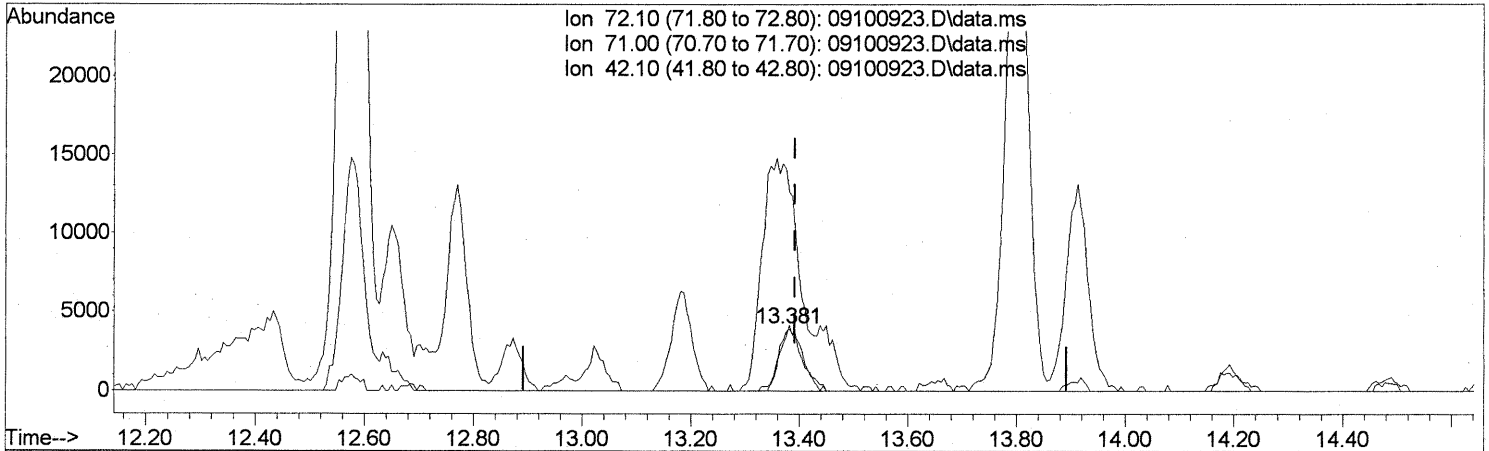
(32) Chloroform (T)
 12.684min (-0.034) 4.87ng
 response 129179

Ion	Exp%	Act%
82.90	100	100
84.90	62.60	66.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.381min (-0.011) 1.11ng

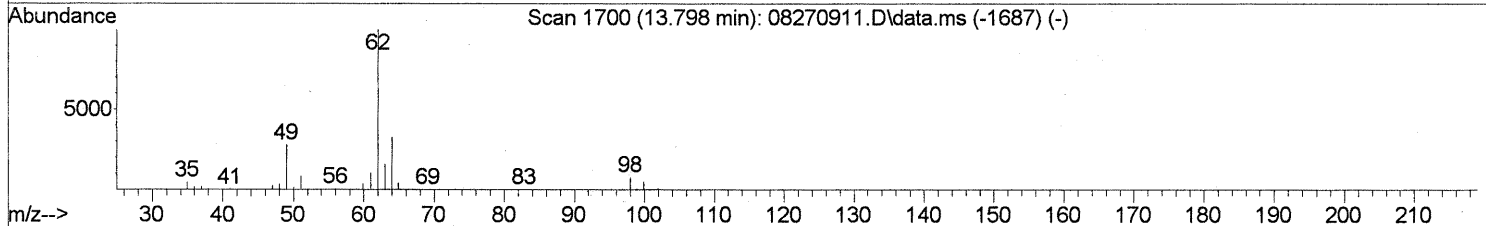
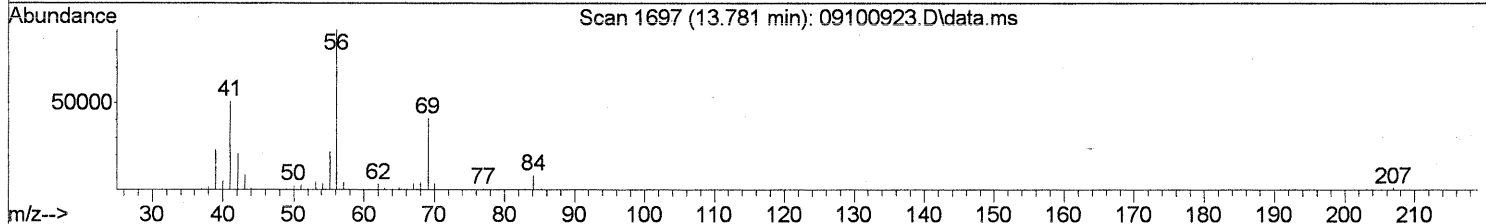
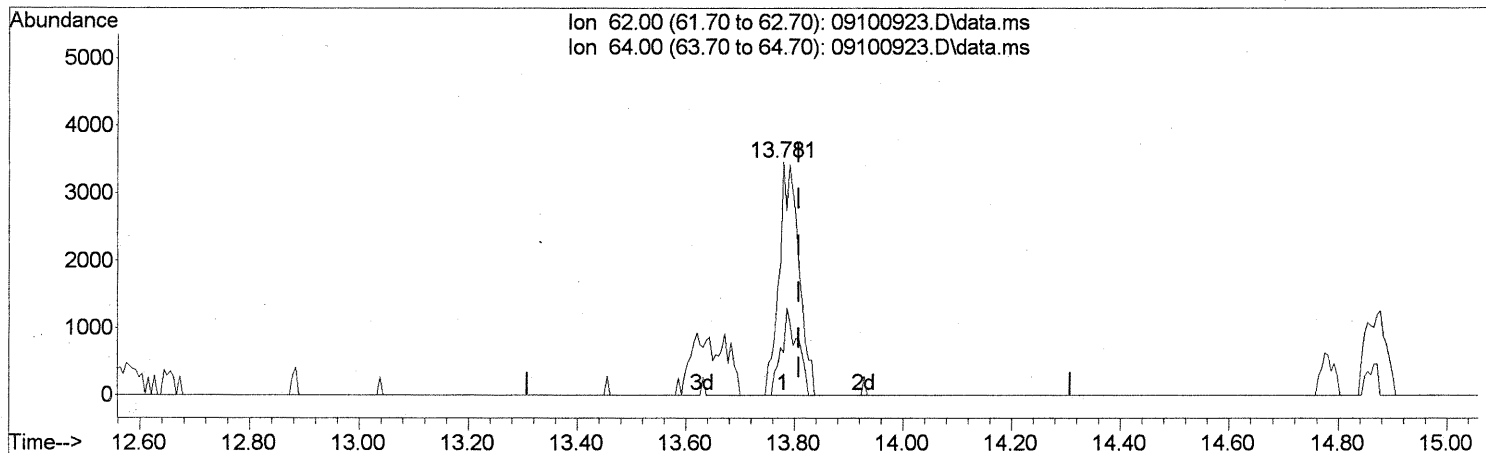
response 12069

Ion	Exp%	Act%
72.10	100	100
71.00	92.50	96.53
42.10	254.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(36) 1,2-Dichloroethane (T)
 13.781min (-0.028) 0.40ng
 response 8800

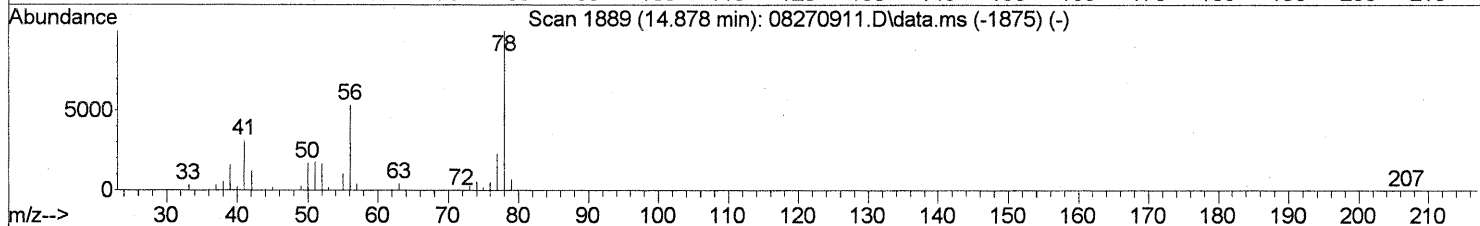
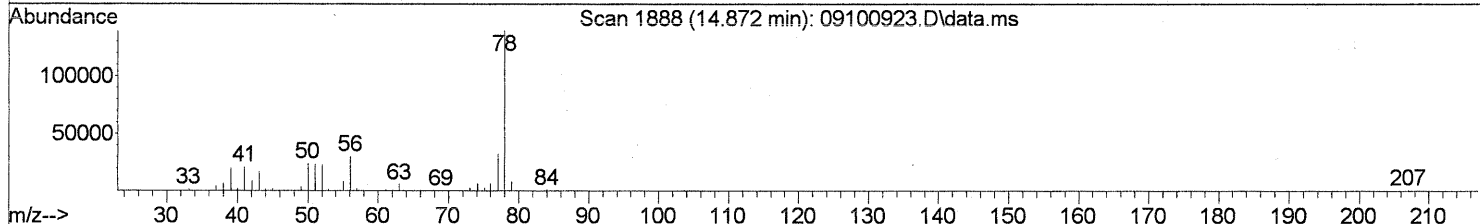
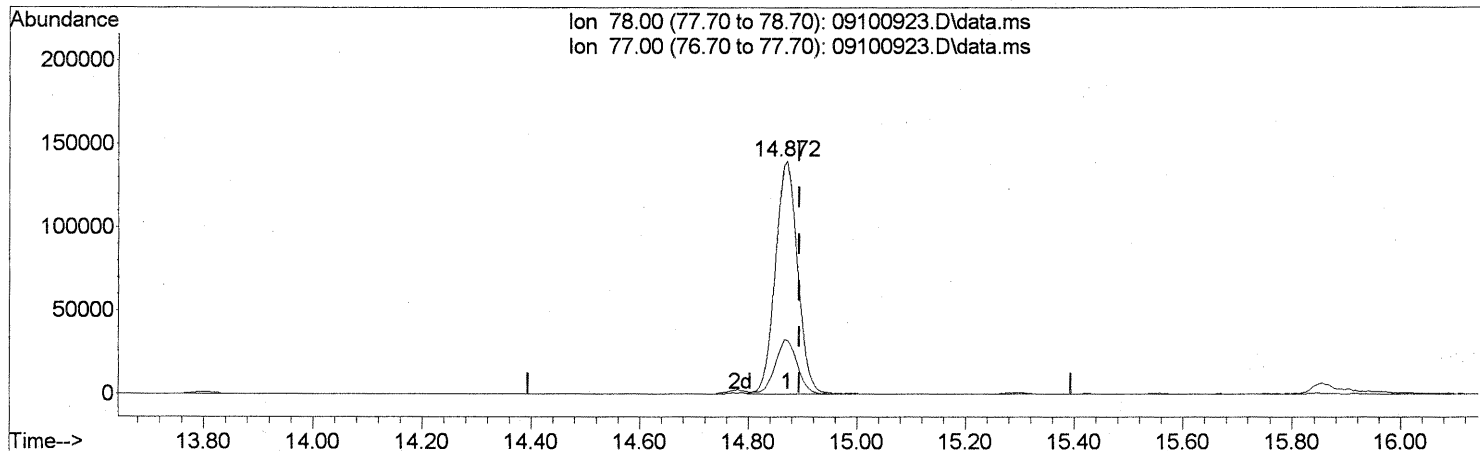
Ion	Exp%	Act%
62.00	100	100
64.00	33.10	30.45
0.00	0.00	0.00
0.00	0.00	0.00

FP
LM 9/20/09
LM 9/20/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

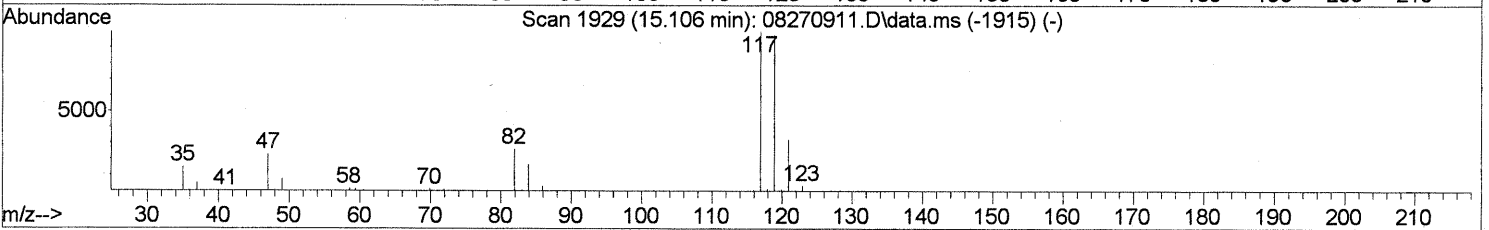
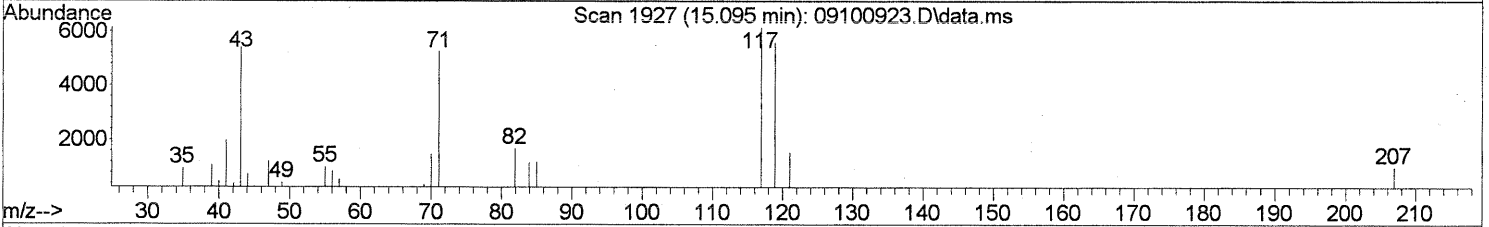
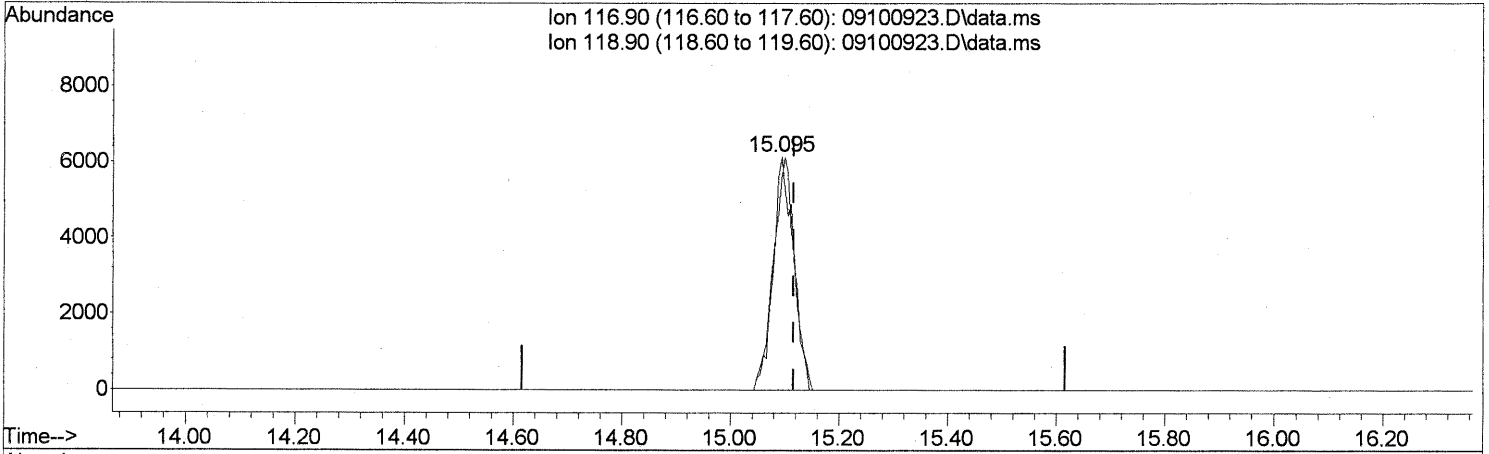
(41) Benzene (T)
 14.872min (-0.023) 6.33ng
 response 397868

Ion	Exp%	Act%
78.00	100	100
77.00	23.20	22.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
Data File : 09100923.D
Acq On : 11 Sep 2009 1:50
Operator : LM/CC
Sample : P0903141-005 (1000ml)
Misc : EH&E 105018
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



TIC: 09100923.D\data.ms

(42) Carbon Tetrachloride (T)

15.095min (-0.023) 0.78ng

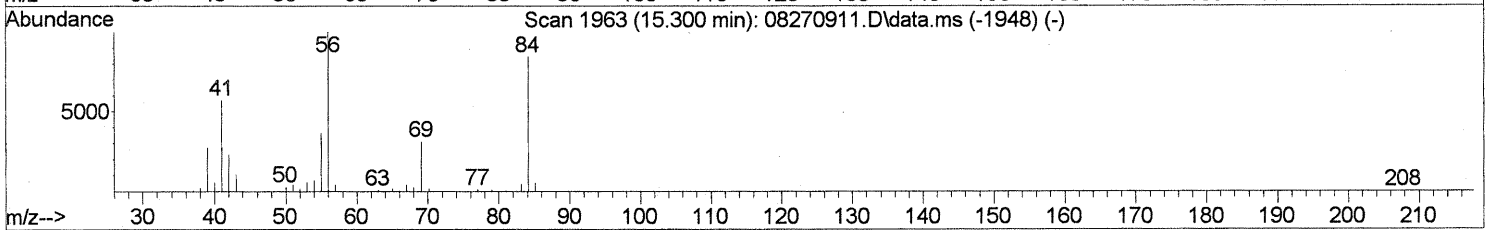
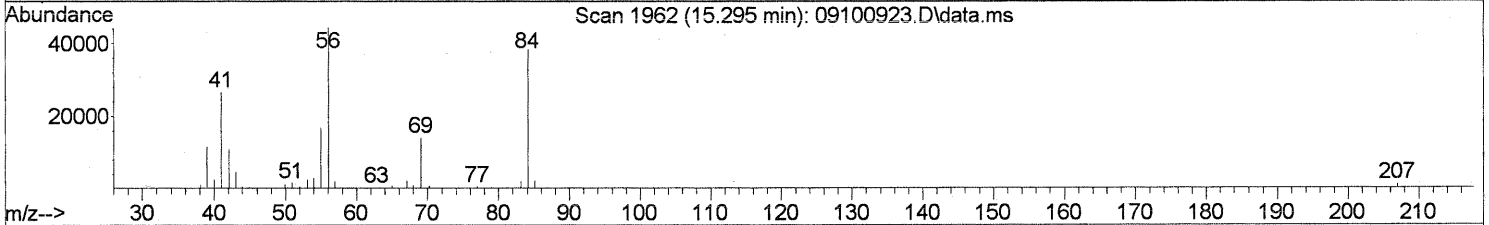
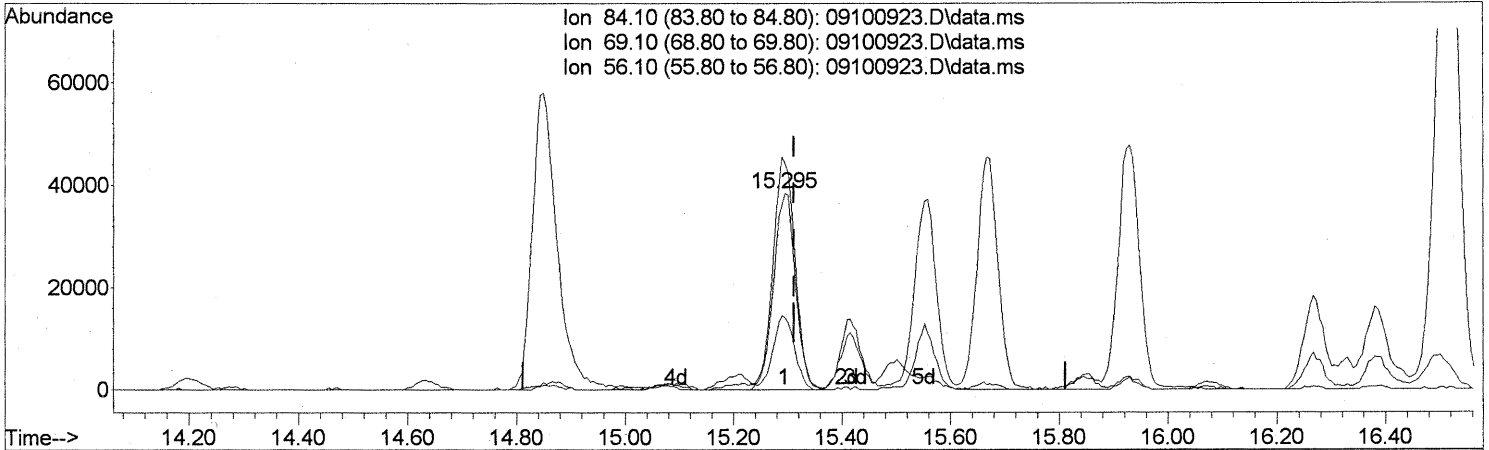
response 16545

Ion	Exp%	Act%
116.90	100	100
118.90	96.20	97.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

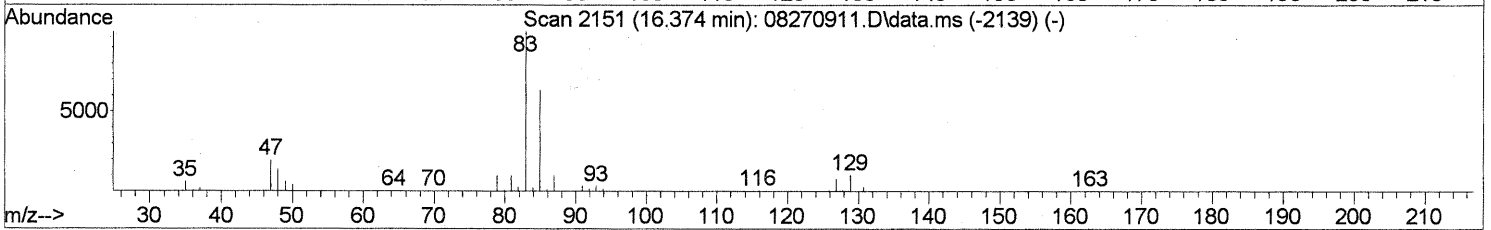
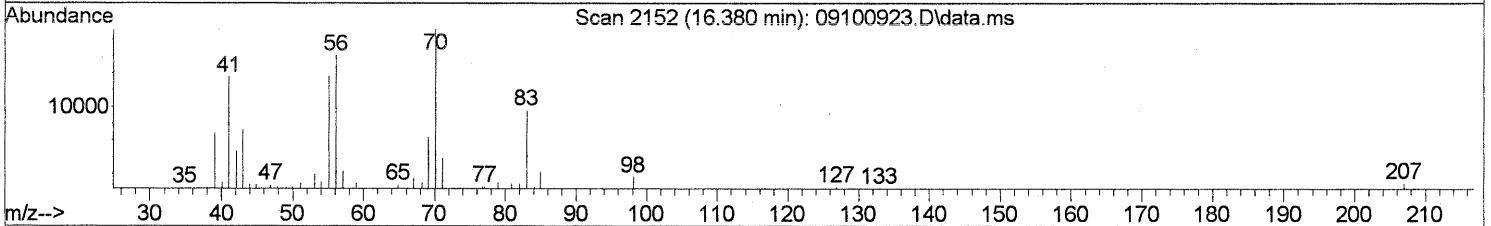
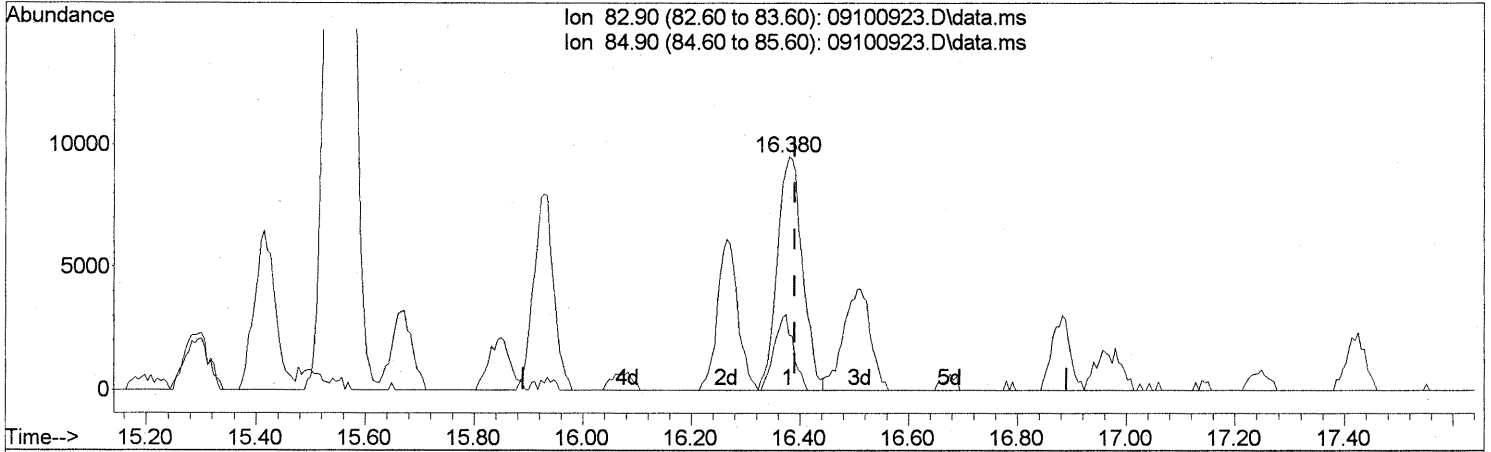
(43) Cyclohexane (T)
 15.295min (-0.017) 4.68ng
 response 108353

Ion	Exp%	Act%
84.10	100	100
69.10	38.90	36.60
56.10	124.50	118.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

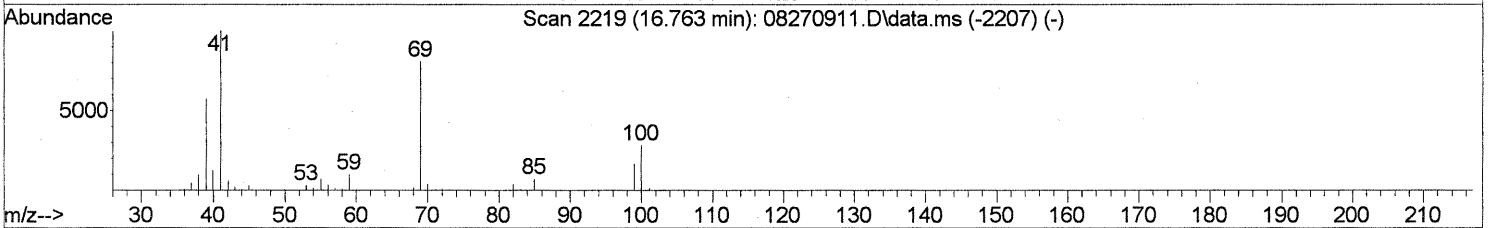
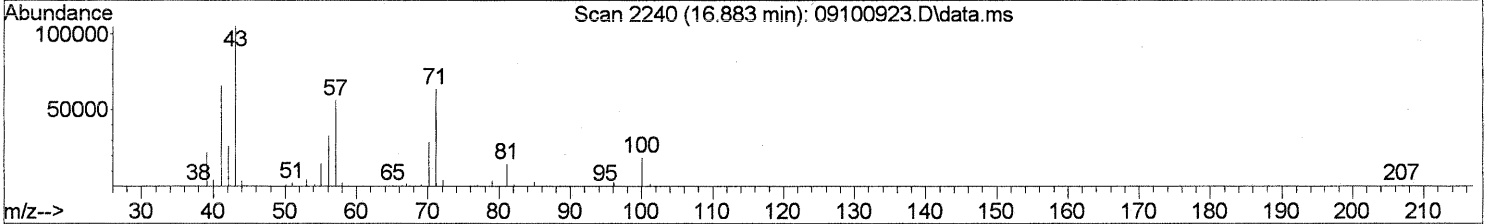
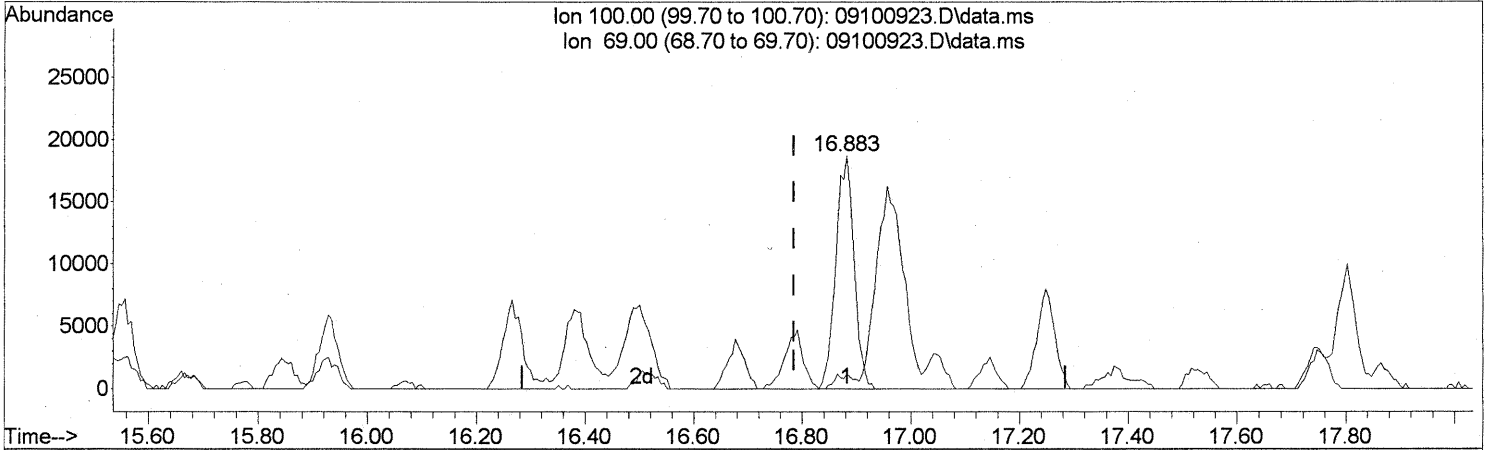
(46) Bromodichloromethane (T)
 16.380min (-0.011) 1.48ng
 response 30712

Ion	Exp%	Act%
82.90	100	100
84.90	64.50	24.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(50) Methyl Methacrylate (T)
 16.883min (+0.097) 7.49ng
 response 43592

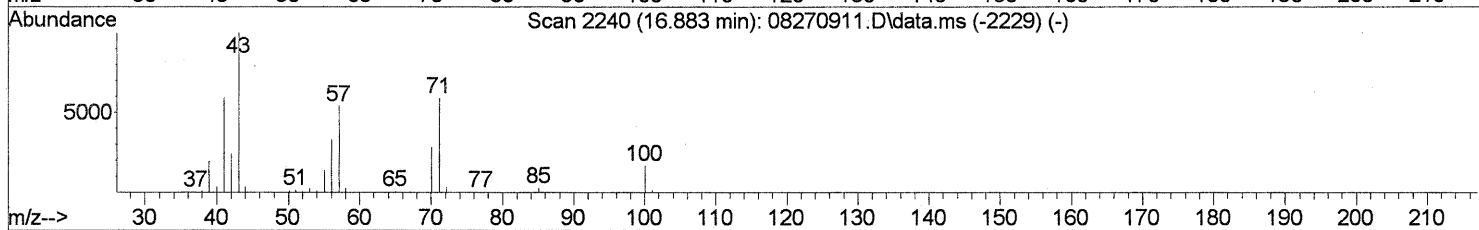
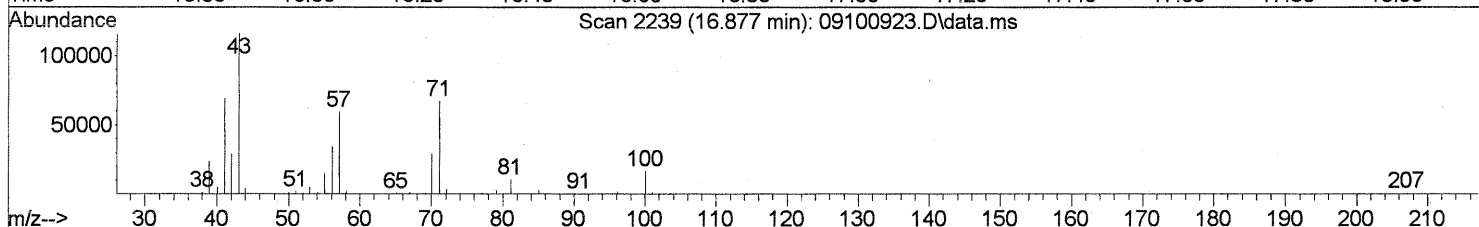
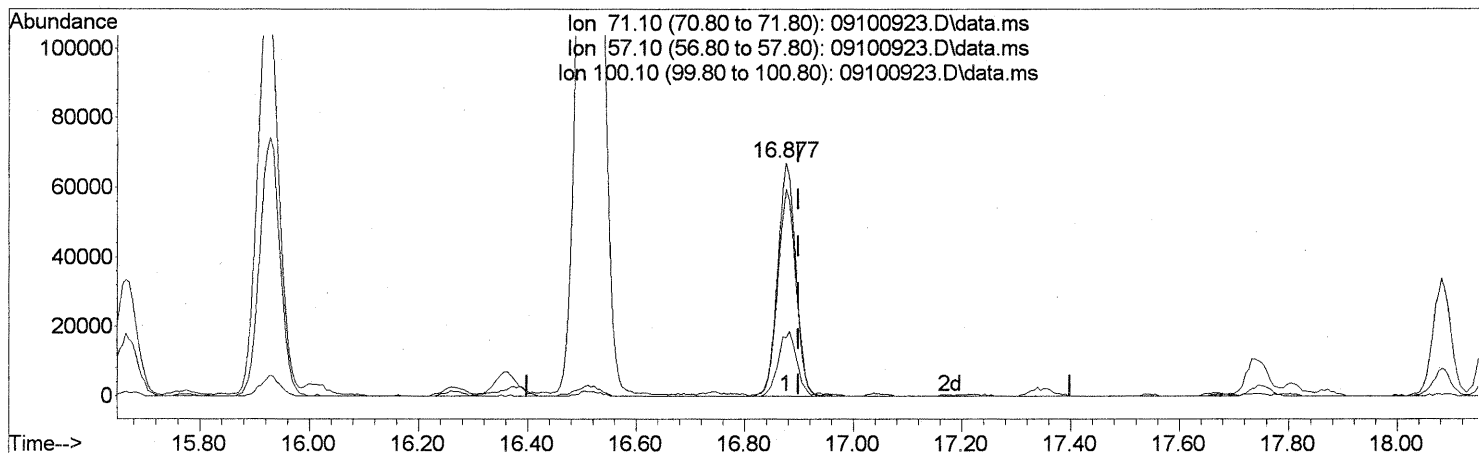
Ion	Exp%	Act%
100.00	100	100
69.00	293.60	6.58#
0.00	0.00	0.00
0.00	0.00	0.00

FP
LM 9/20/09
Em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

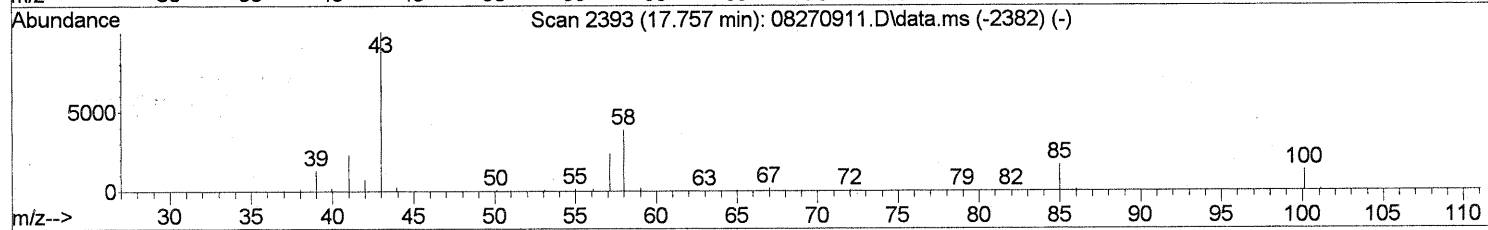
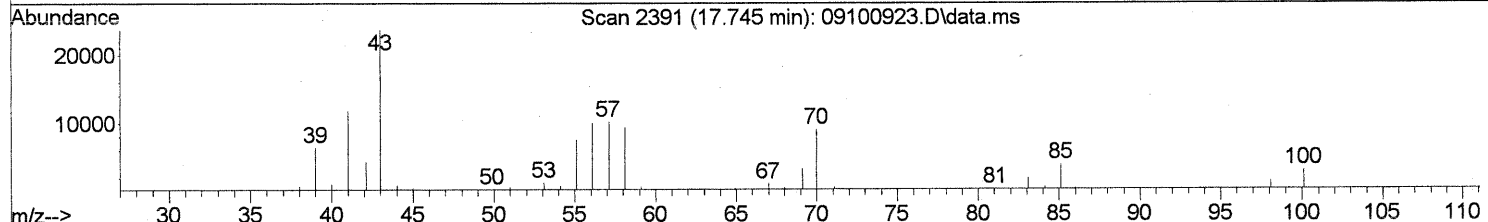
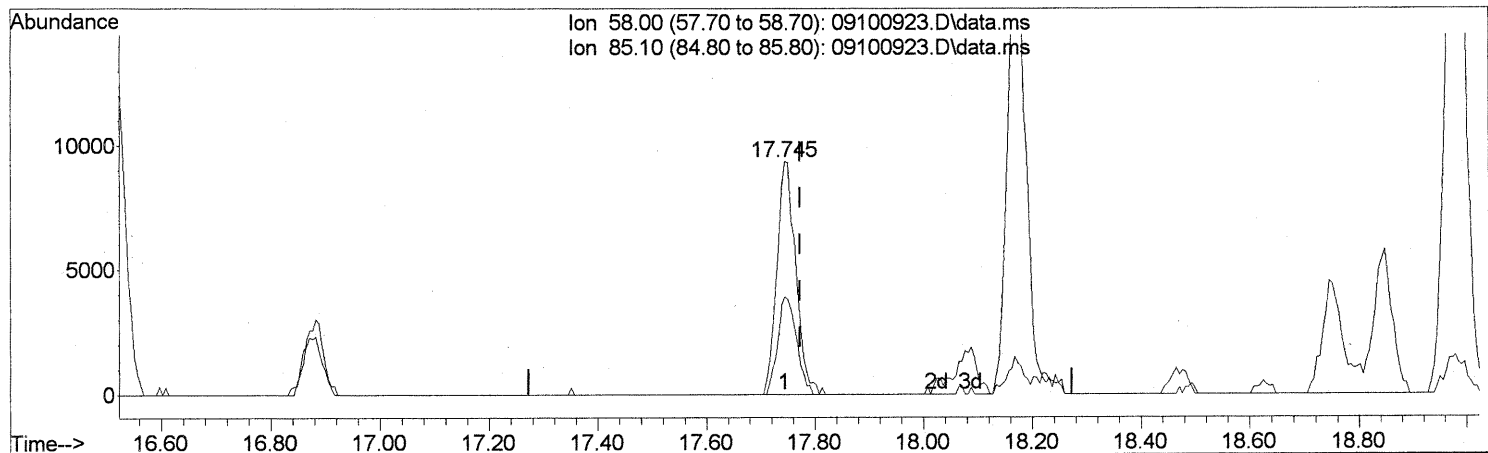
(51) n-Heptane (T)
 16.877min (-0.023) 9.52ng
 response 154953

ion	Exp%	Act%
71.10	100	100
57.10	89.80	90.06
100.10	22.00	28.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

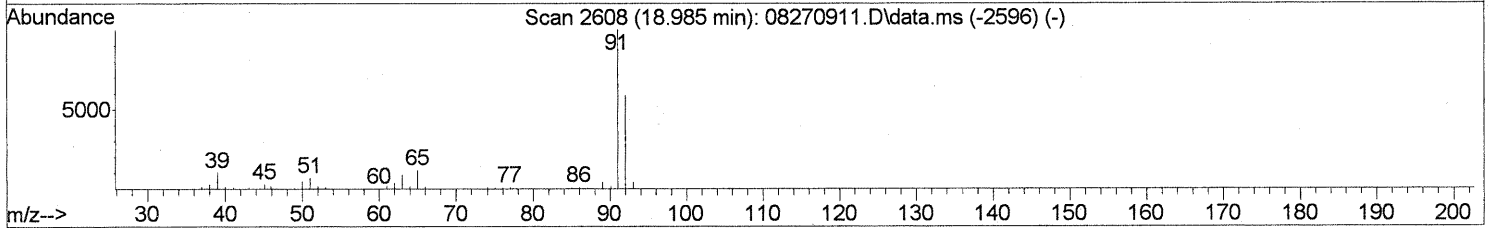
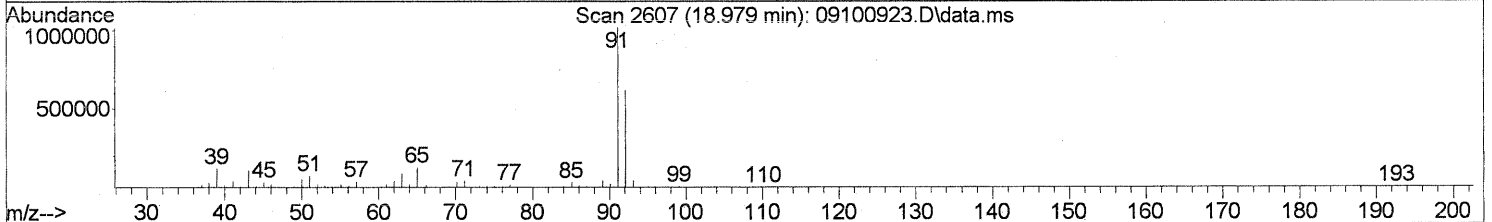
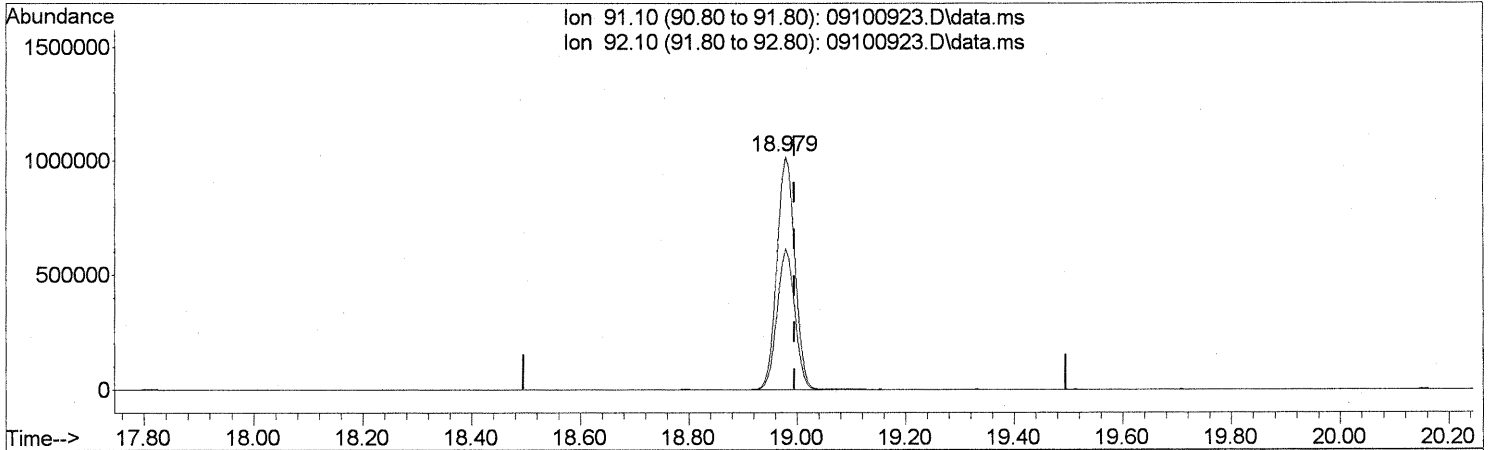
(53) 4-Methyl-2-pentanone (T)
 17.745min (-0.028) 1.58ng
 response 22661

Ion	Exp%	Act%
58.00	100	100
85.10	42.40	41.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

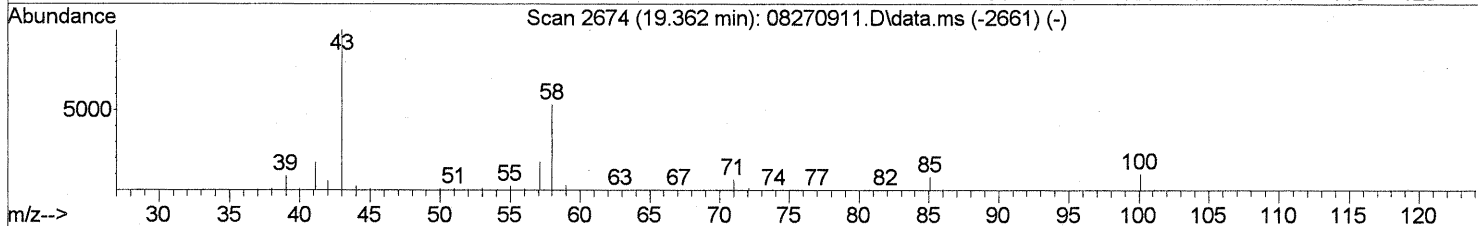
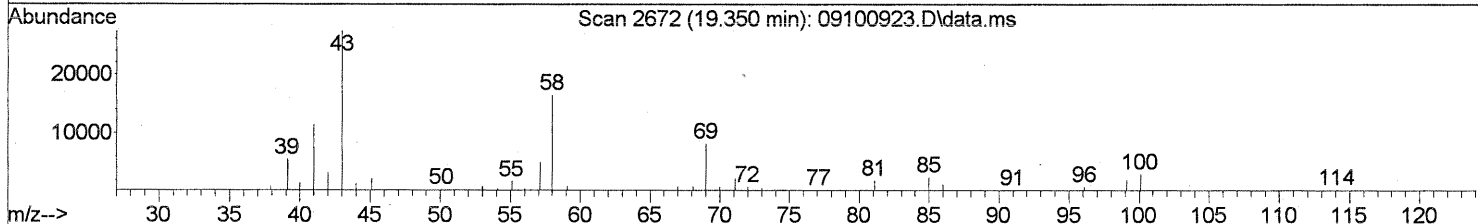
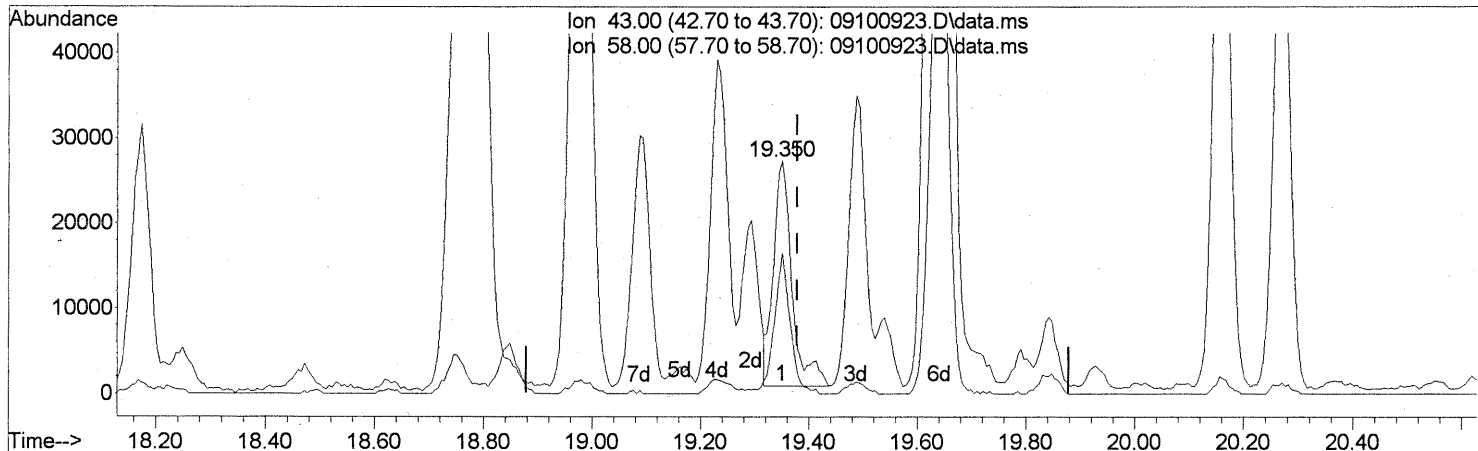
(58) Toluene (T)
 18.979min (-0.017) 35.83ng
 response 2343870

Ion	Exp%	Act%
91.10	100	100
92.10	58.80	59.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(59) 2-Hexanone (T)
 19.350min (-0.028) 1.58ng
 response 63279

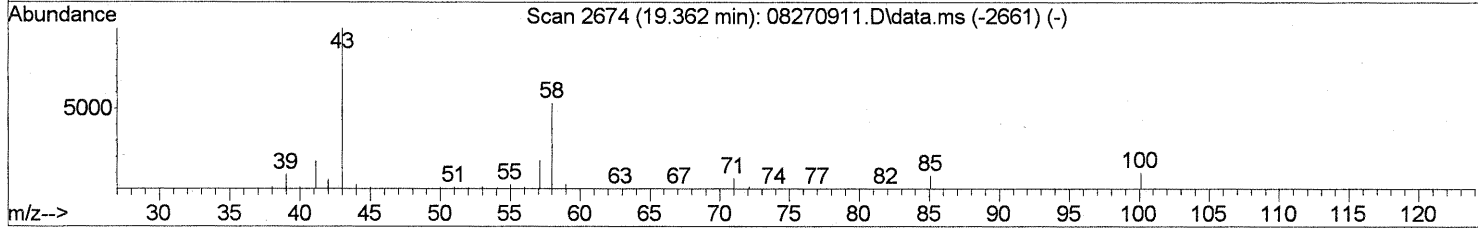
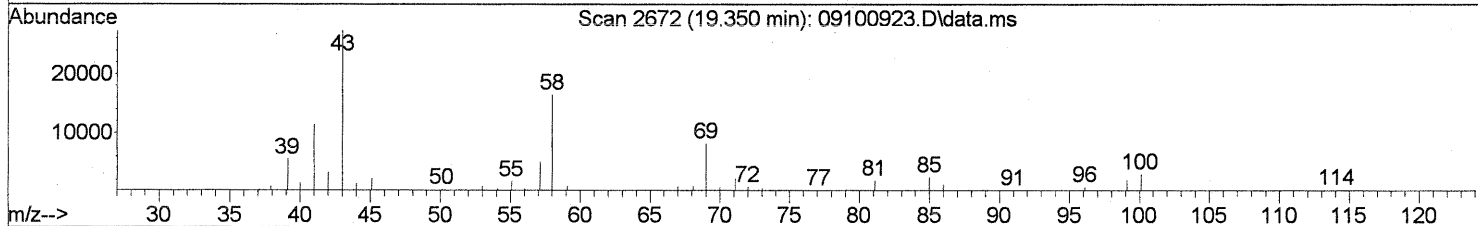
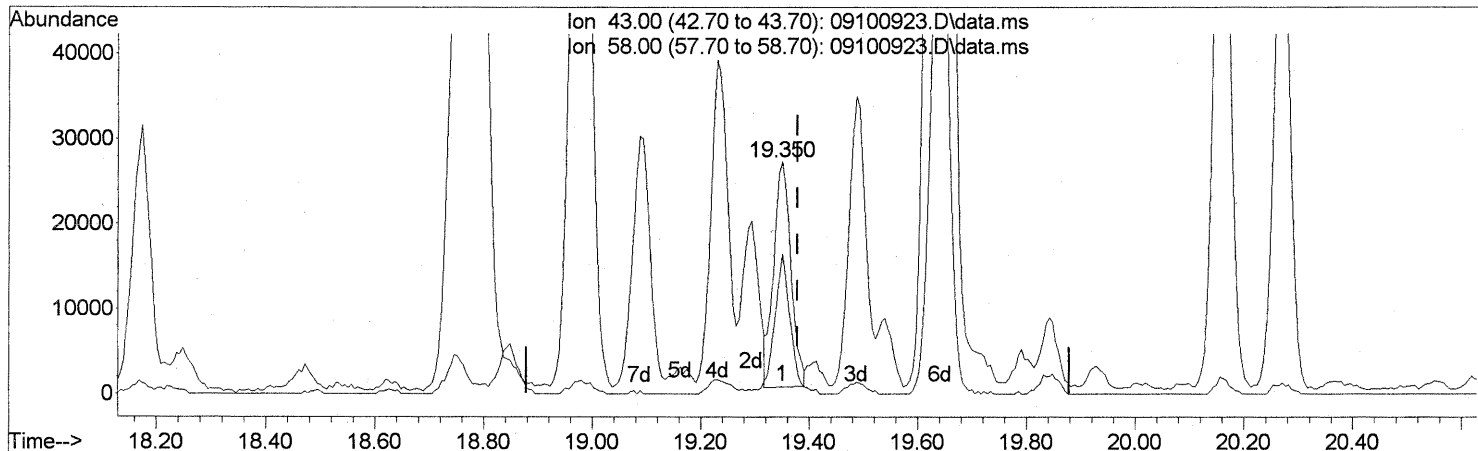
Ion	Exp%	Act%
43.00	100	100
58.00	51.70	52.89
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(59) 2-Hexanone (T)
 19.350min (-0.028) 1.47ng m
 response 58833

Ion	Exp%	Act%
43.00	100	100
58.00	51.70	56.89
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

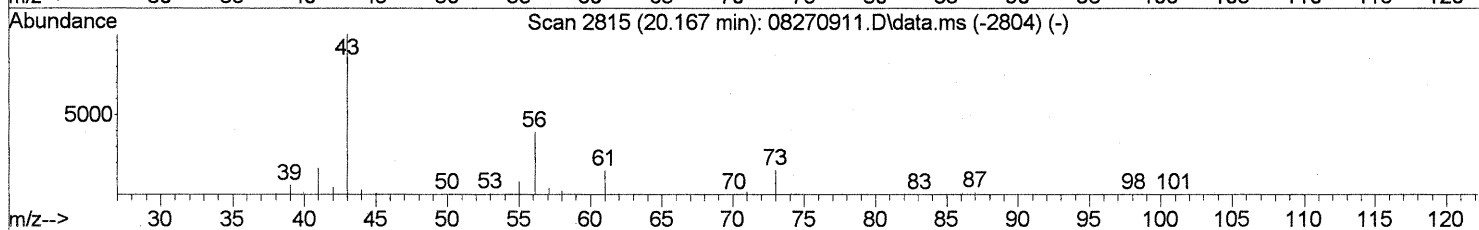
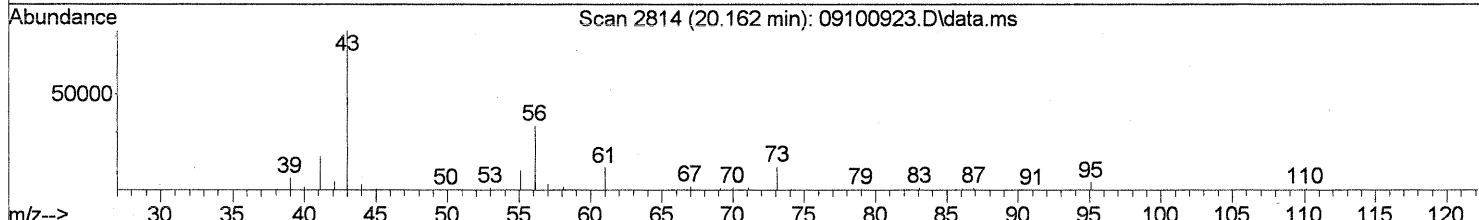
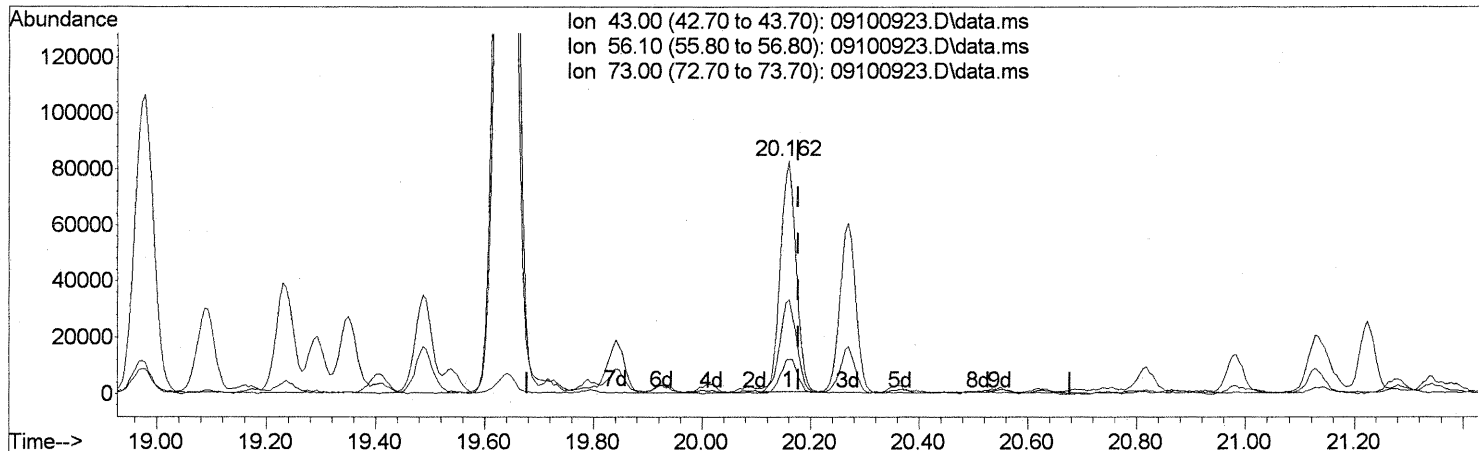
11/20/09

Com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

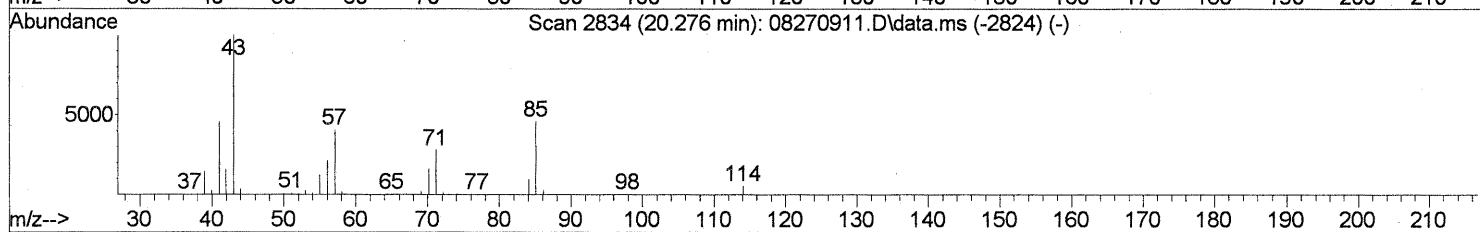
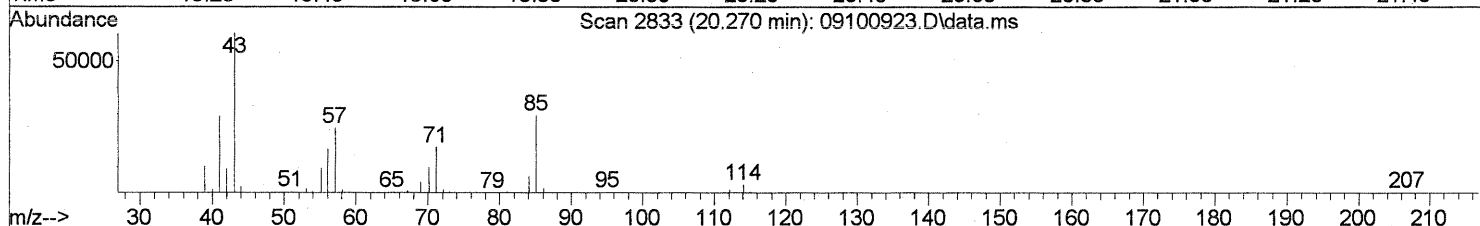
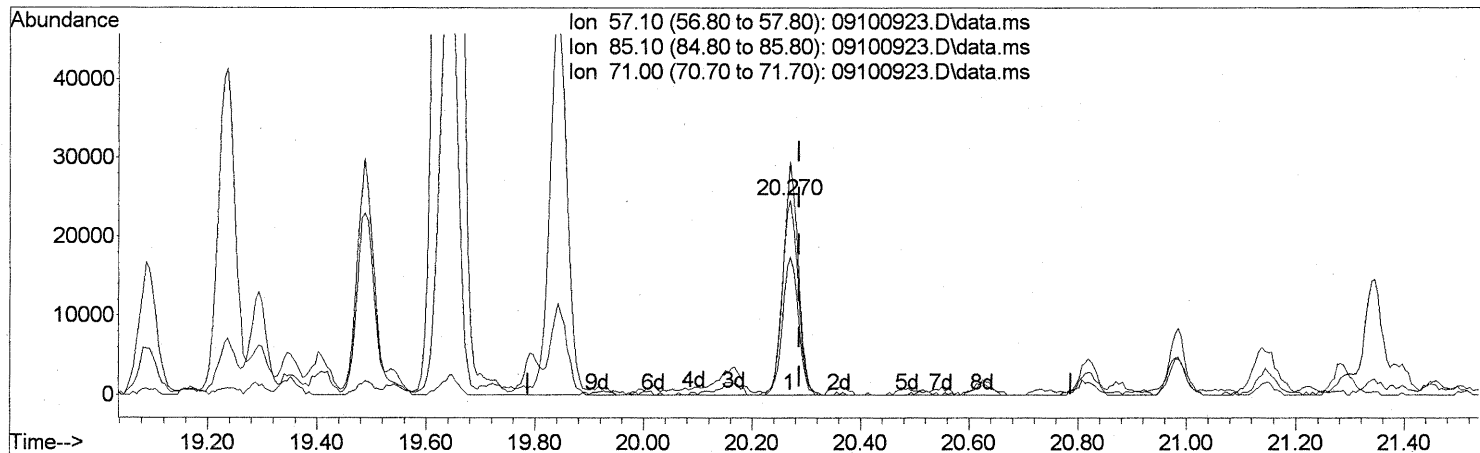
(62) n-Butyl Acetate (T)
 20.162min (-0.017) 3.58ng
 response 164139

Ion	Exp%	Act%
43.00	100	100
56.10	39.50	42.36
73.00	14.30	17.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

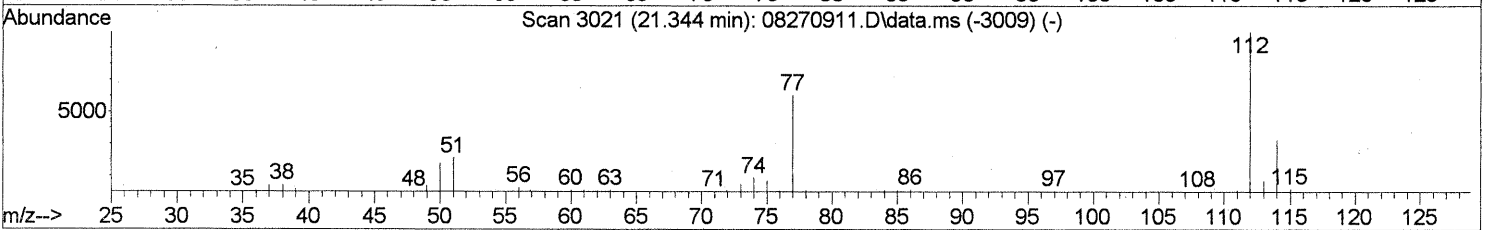
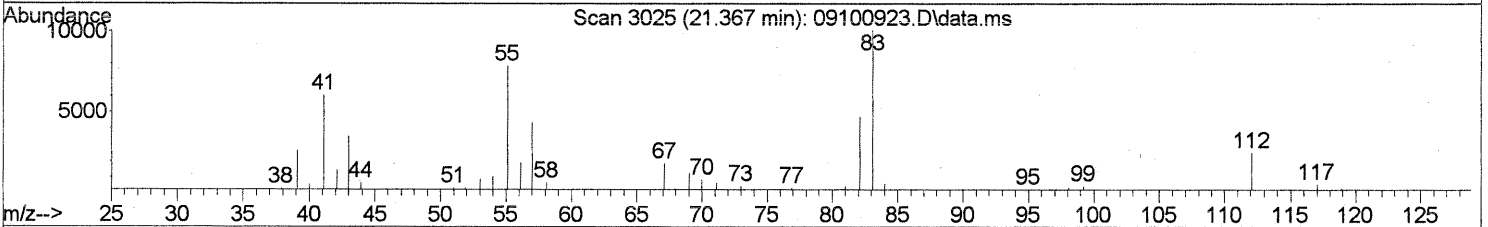
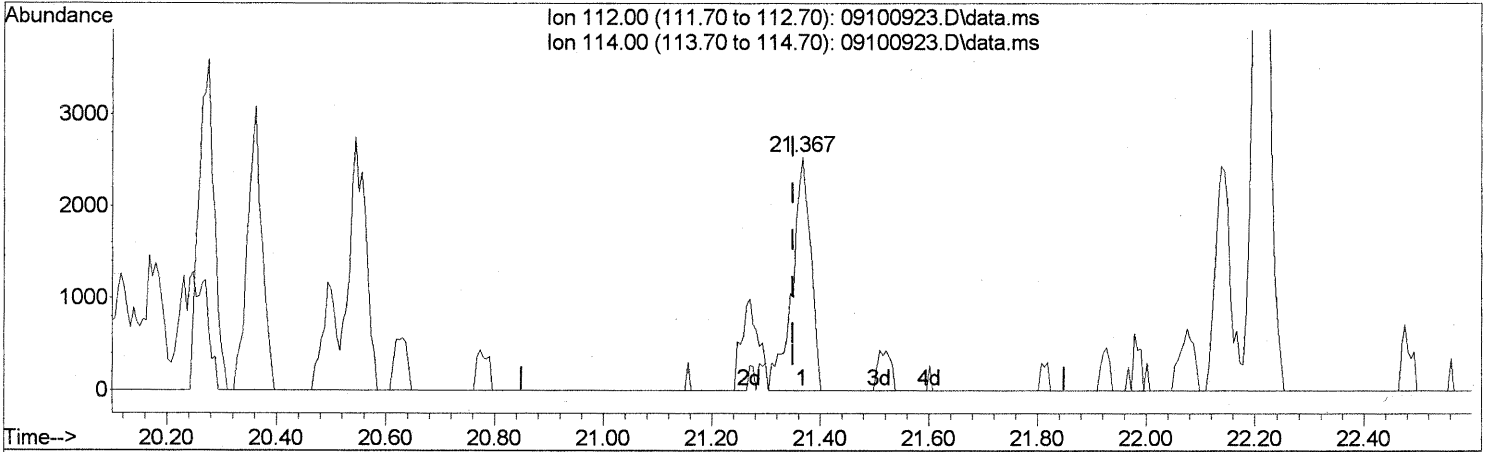
(63) n-Octane (T)
 20.270min (-0.017) 3.37ng
 response 50662

Ion	Exp%	Act%
57.10	100	100
85.10	113.70	111.47
71.00	69.10	70.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(65) Chlorobenzene (T)
 21.367min (+0.017) 0.14ng
 response 6000

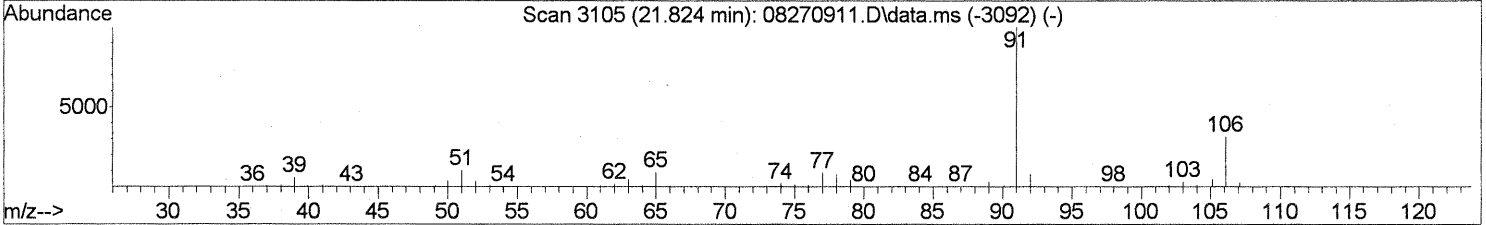
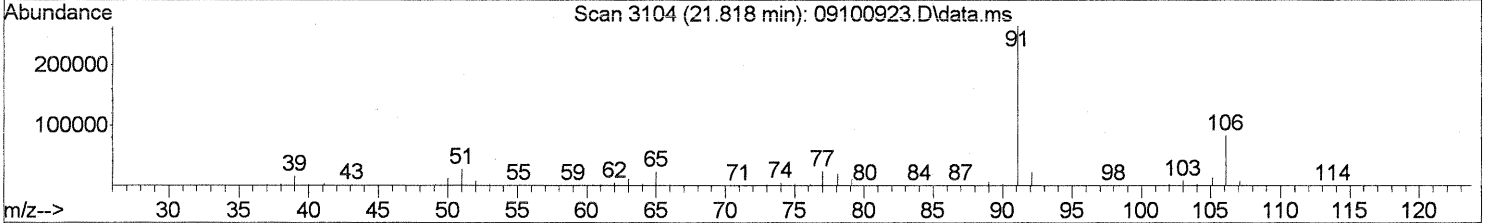
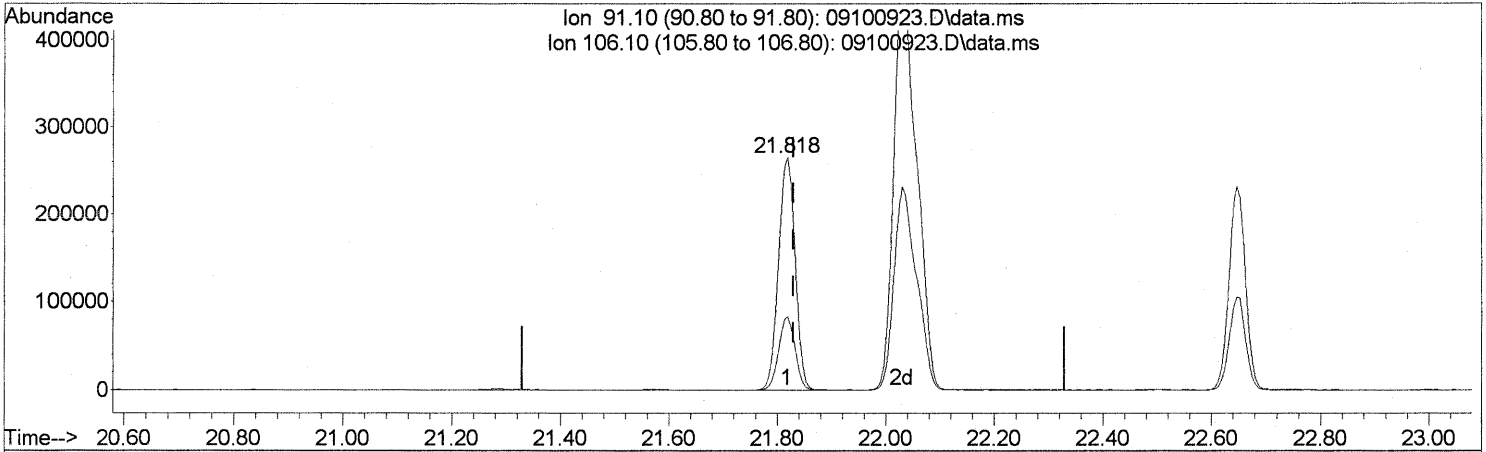
Ion	Exp%	Act%
112.00	100	100
114.00	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*FP
 m 9/20/09
 Com 9/21/09*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

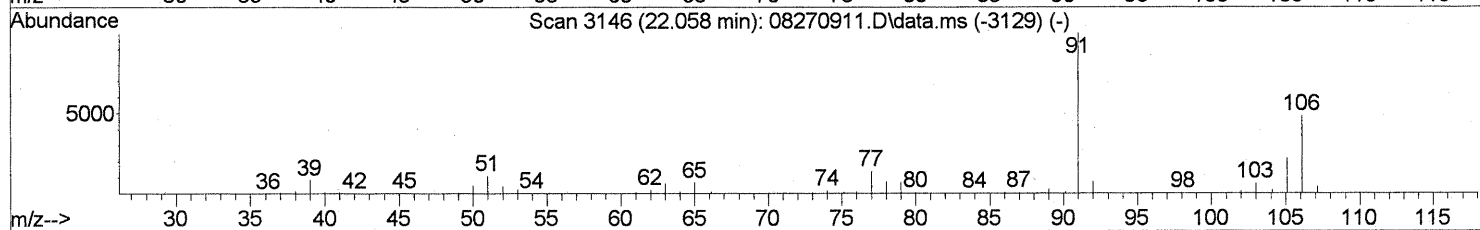
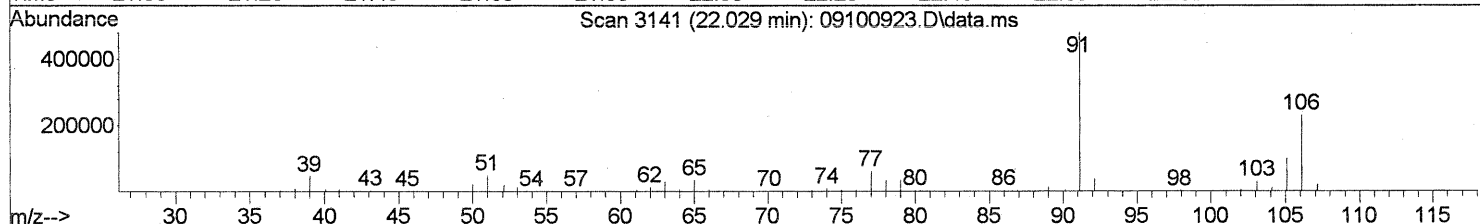
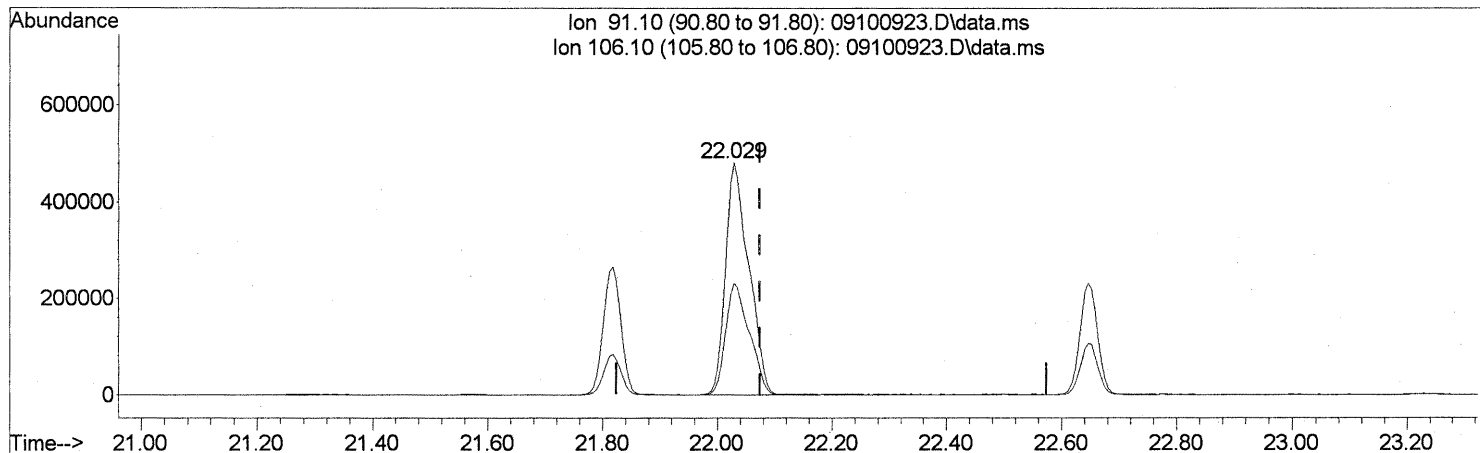
(66) Ethylbenzene (T)
 21.818min (-0.011) 7.55ng
 response 565030

Ion	Exp%	Act%
91.10	100	100
106.10	31.00	30.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

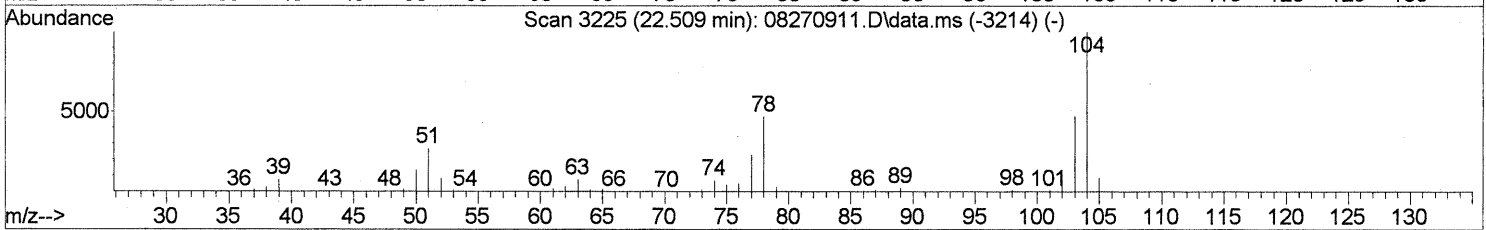
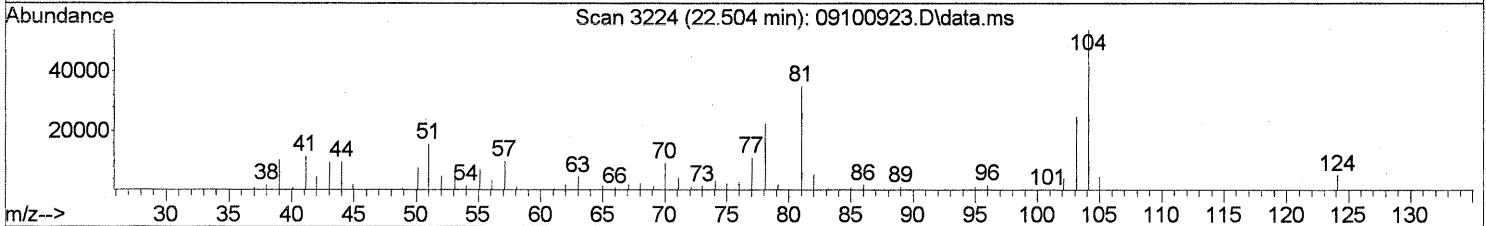
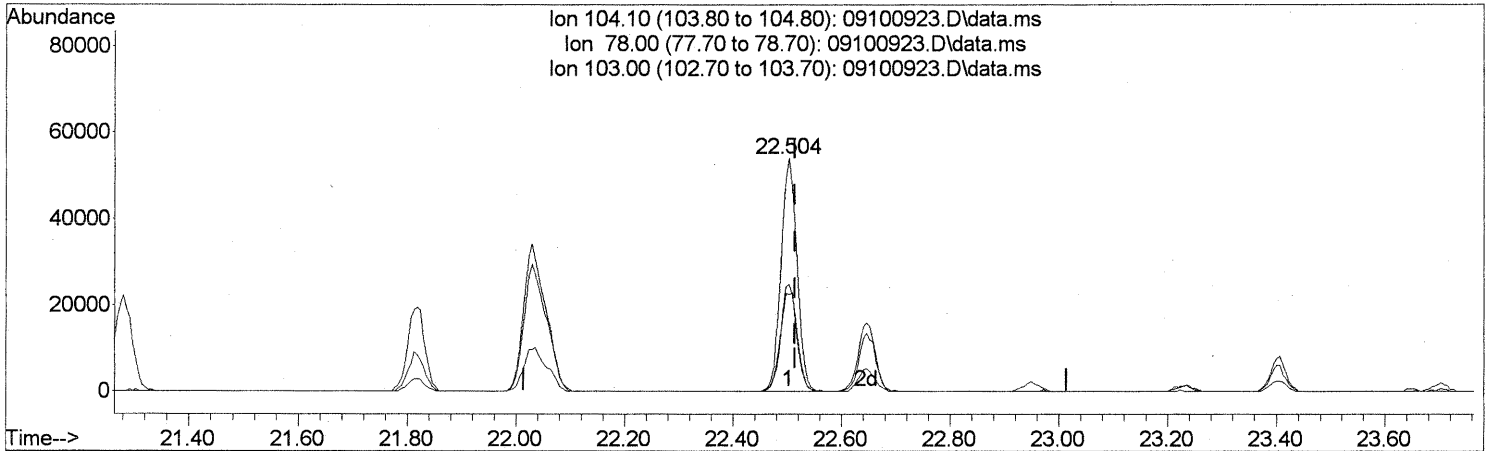
(67) m- & p-Xylenes (T)
 22.029min (-0.046) 22.88ng
 response 1362762

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	48.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

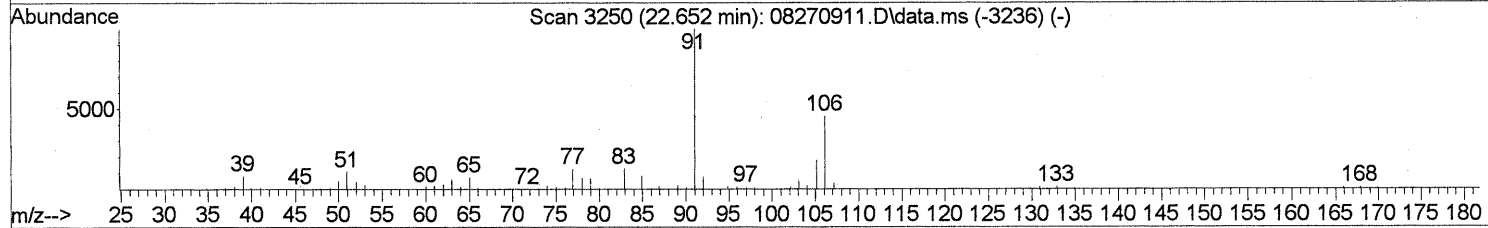
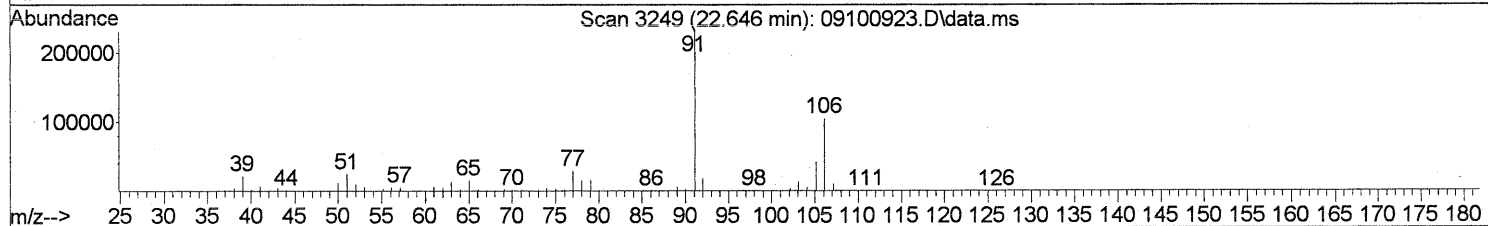
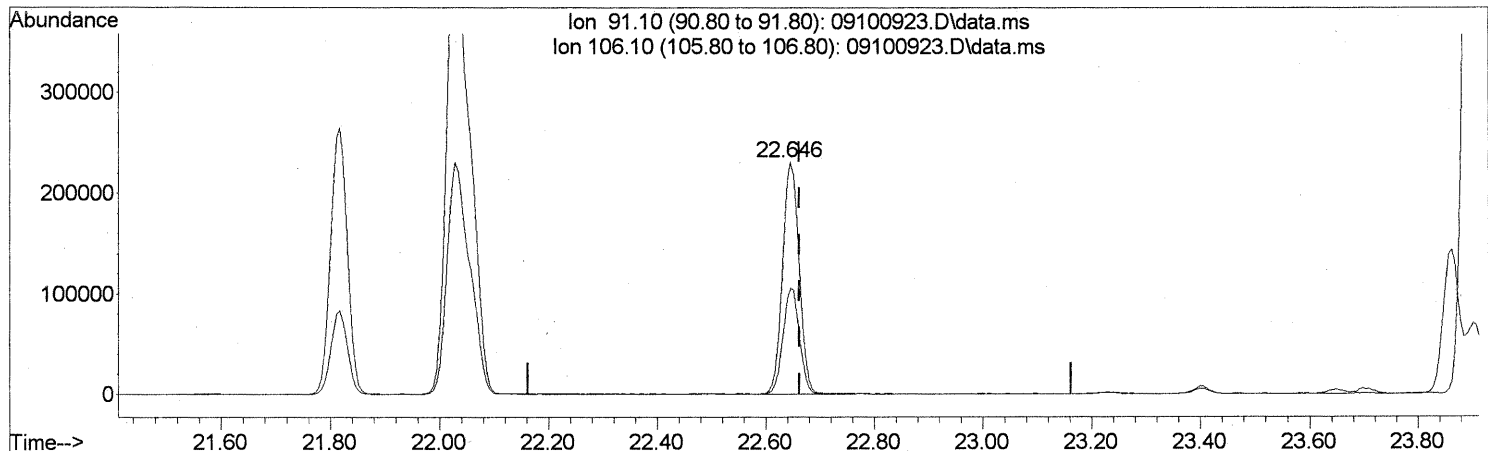
(69) Styrene (T)
 22.504min (-0.011) 2.52ng
 response 110420

Ion	Exp%	Act%
104.10	100	100
78.00	47.20	44.88
103.00	47.00	46.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

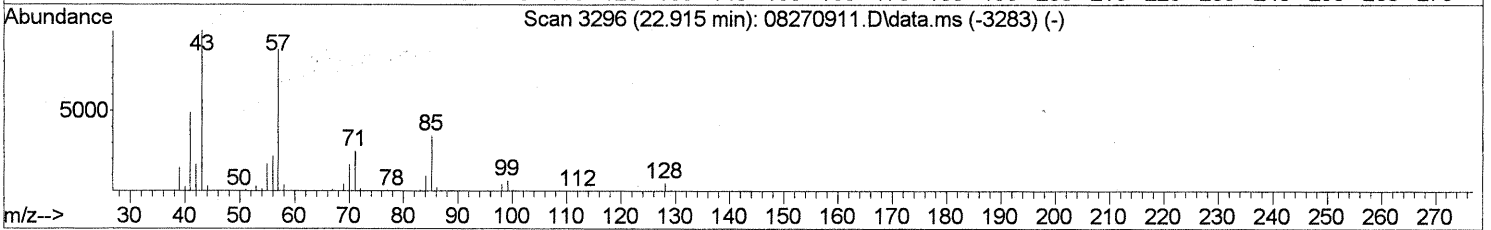
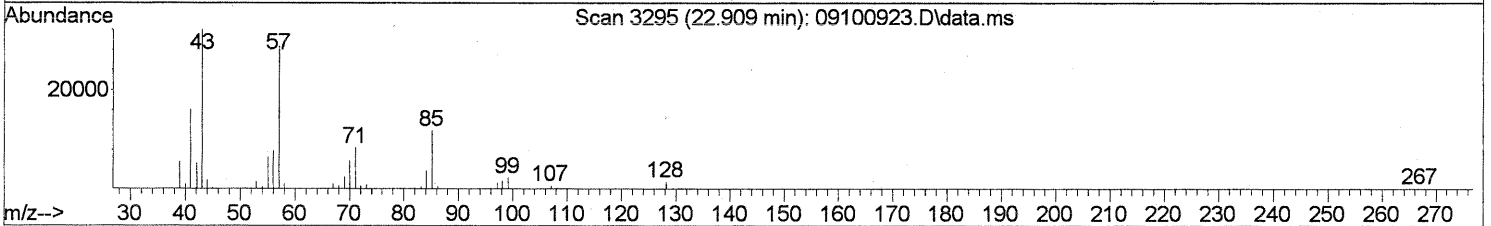
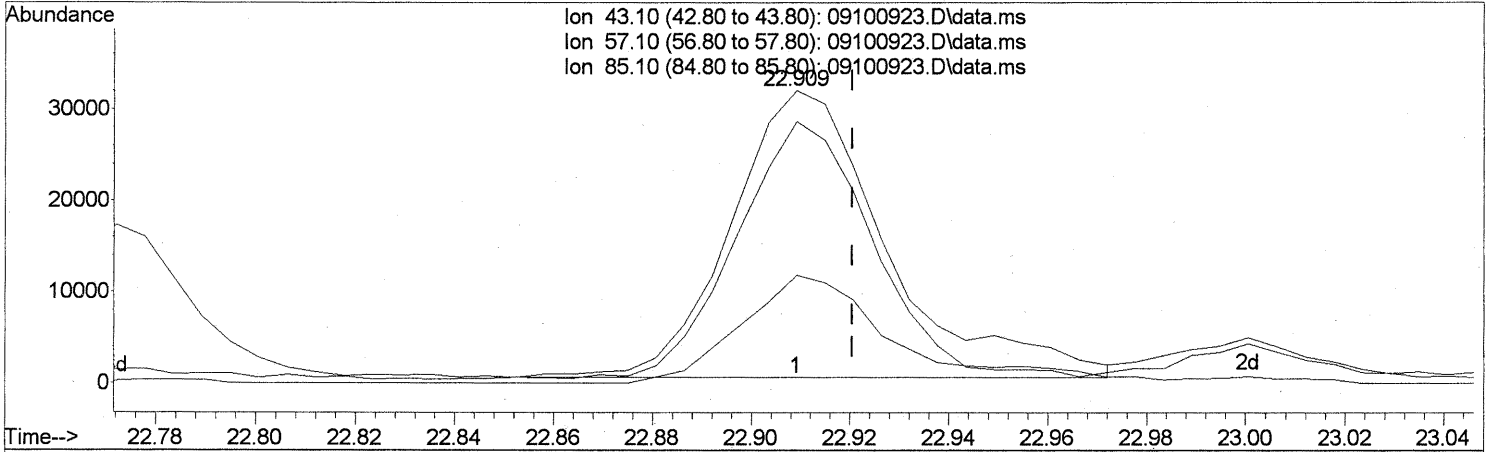
(70) o-Xylene (T)
 22.646min (-0.017) 8.18ng
 response 489364

Ion	Exp%	Act%
91.10	100	100
106.10	44.90	45.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(71) n-Nonane (T)
 22.909min (-0.011) 1.92ng
 response 69102

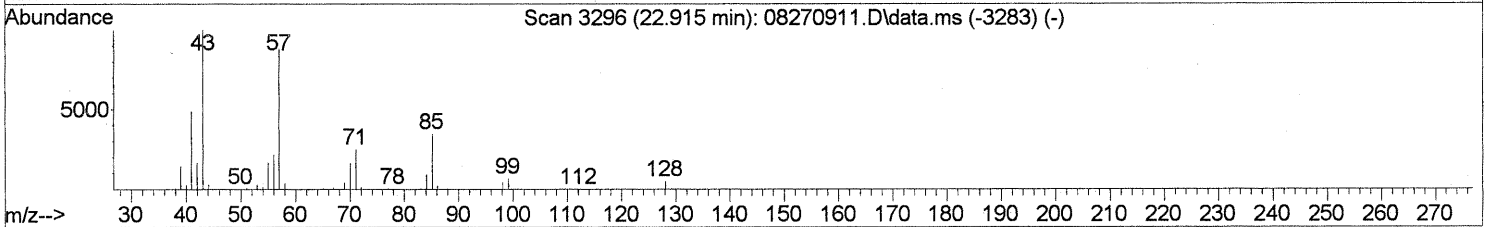
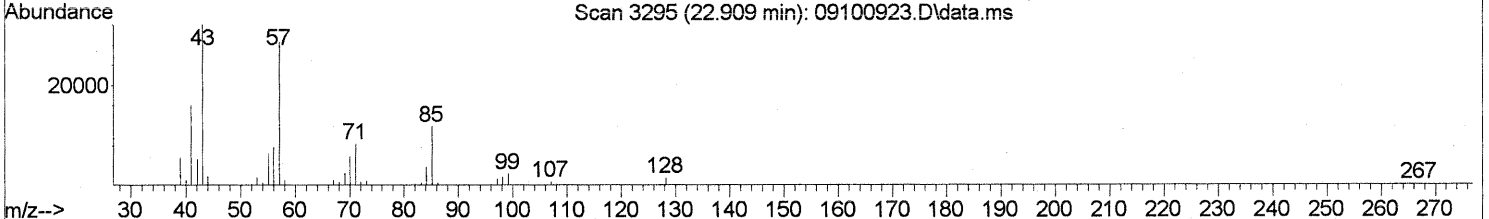
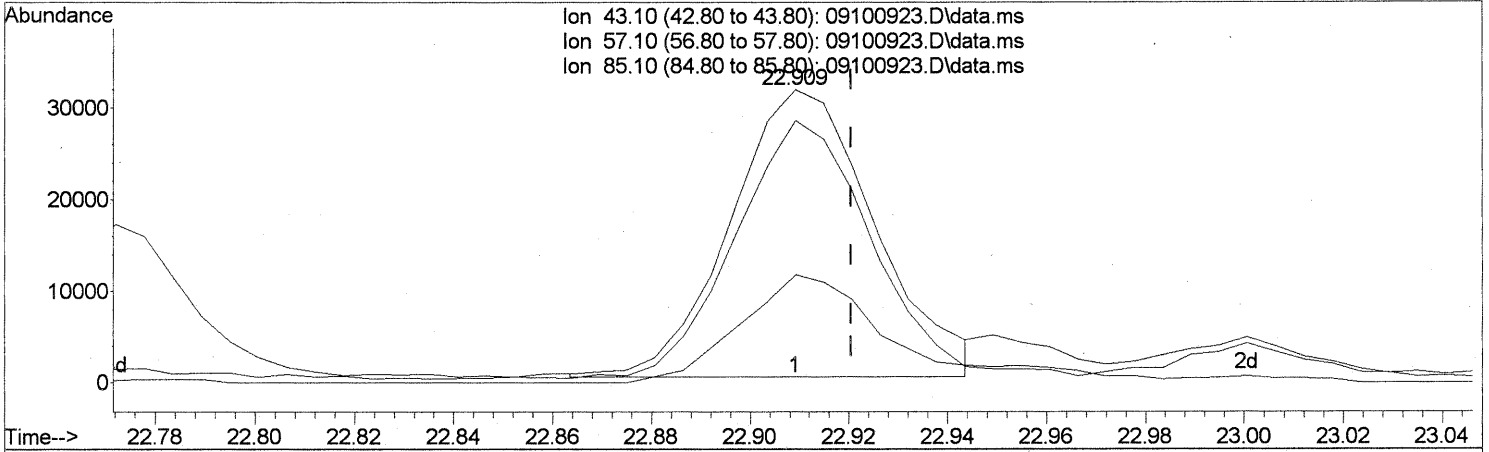
Ion	Exp%	Act%
43.10	100	100
57.10	85.90	78.71
85.10	32.20	38.54
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(71) n-Nonane (T)
 22.909min (-0.011) 1.77ng m
 response 63566

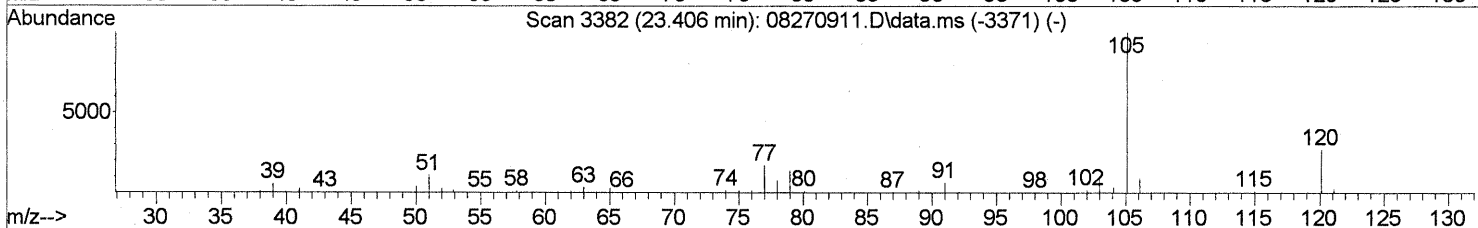
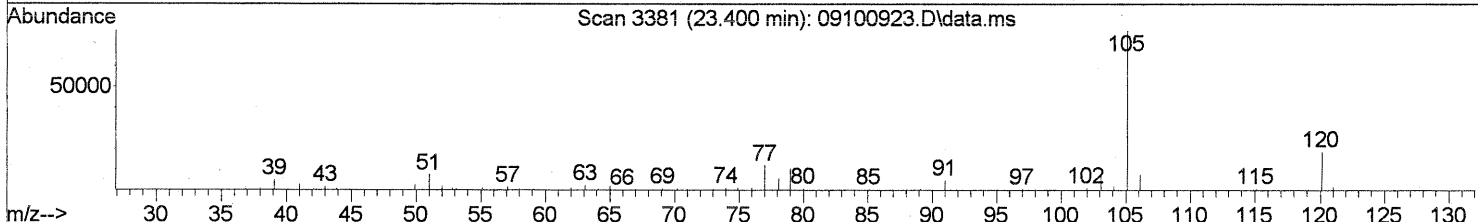
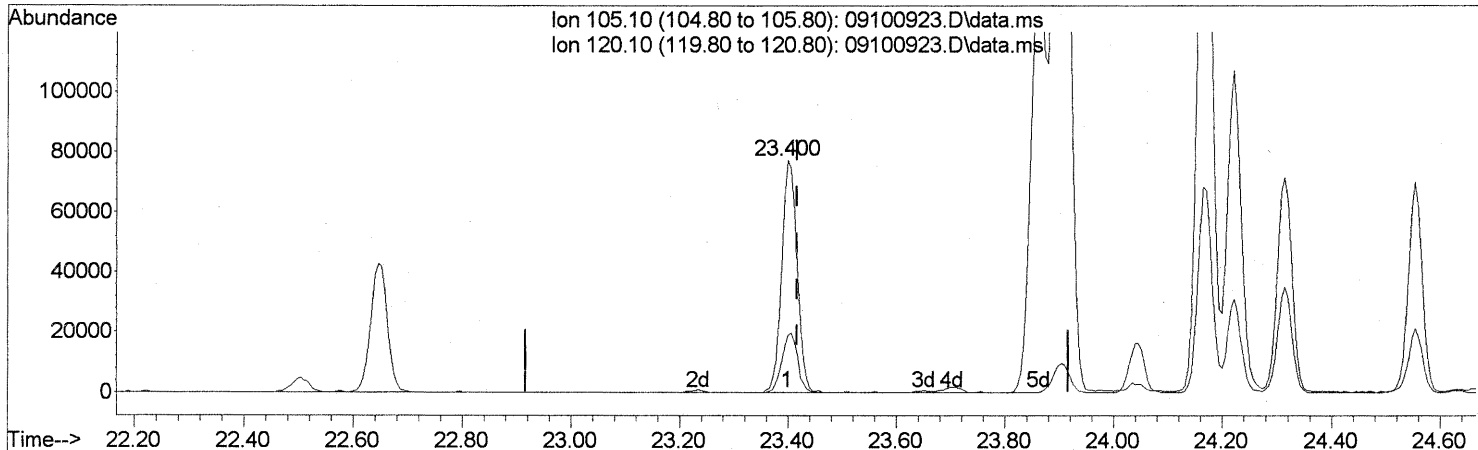
Ion	Exp%	Act%
43.10	100	100
57.10	85.90	85.56
85.10	32.20	41.90
0.00	0.00	0.00

PT-IC
LM 9/20/09
LM 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

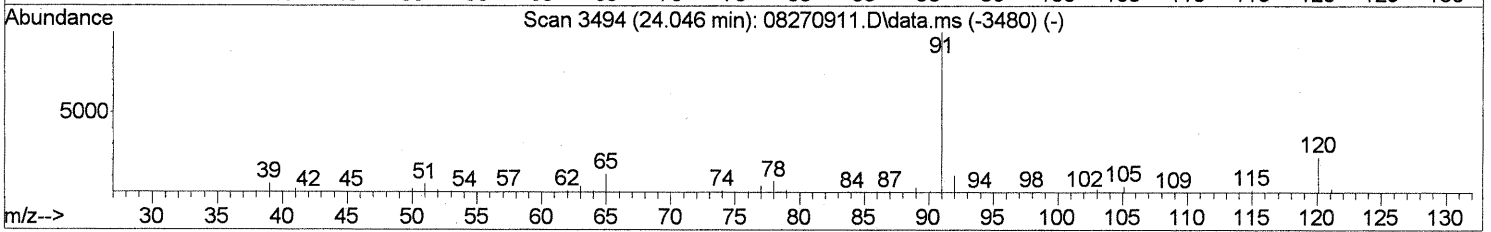
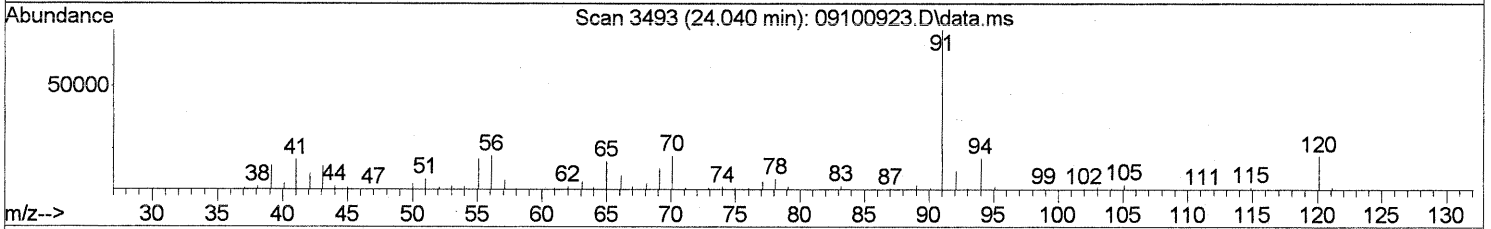
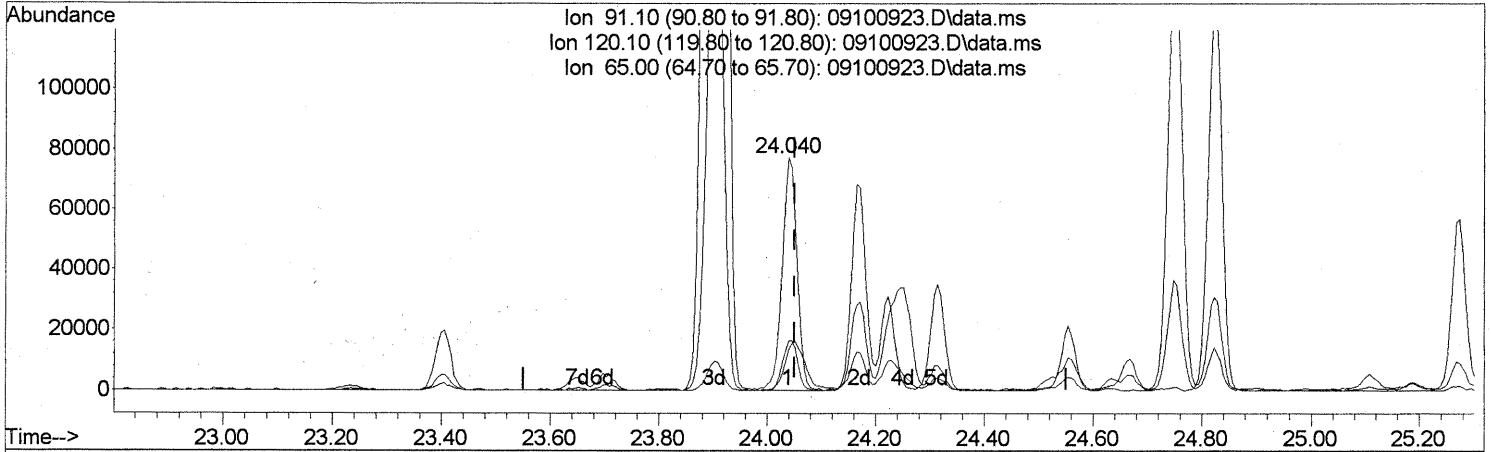
(74) Cumene (T)
 23.400min (-0.017) 2.00ng
 response 151423

Ion	Exp%	Act%
105.10	100	100
120.10	25.50	25.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

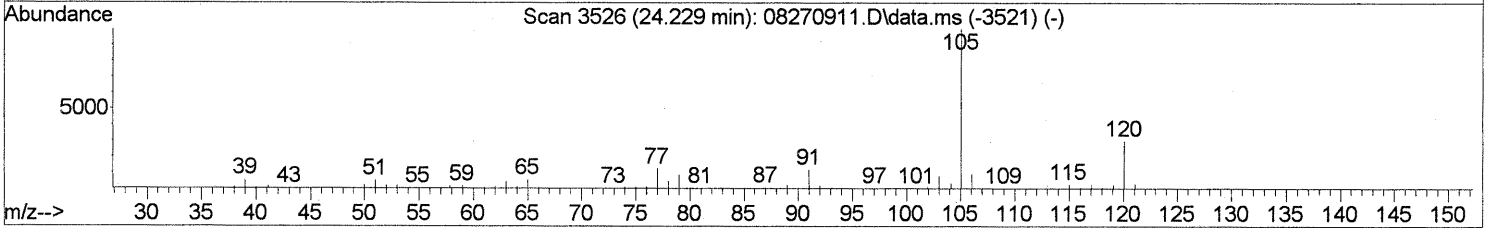
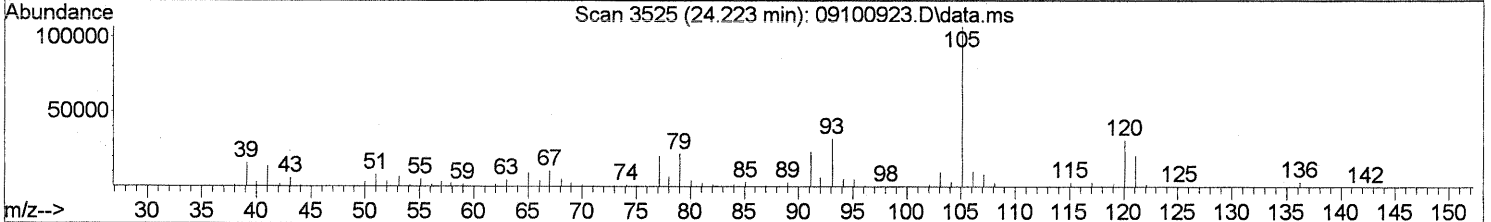
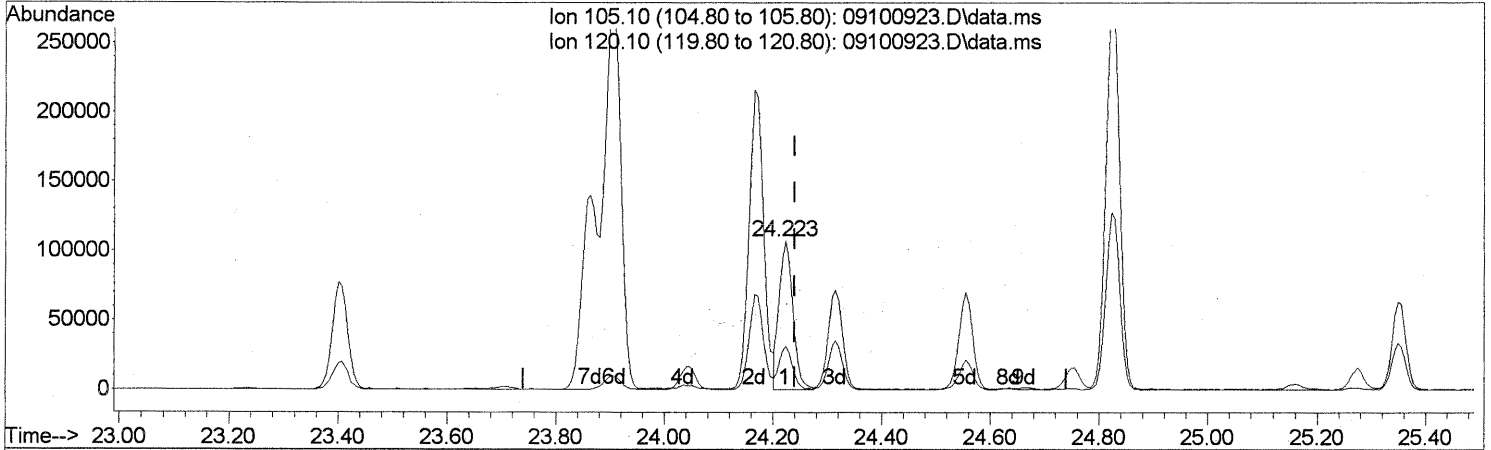
(76) n-Propylbenzene (T)
 24.040min (-0.011) 1.52ng
 response 146083

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	21.50
65.00	11.80	28.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

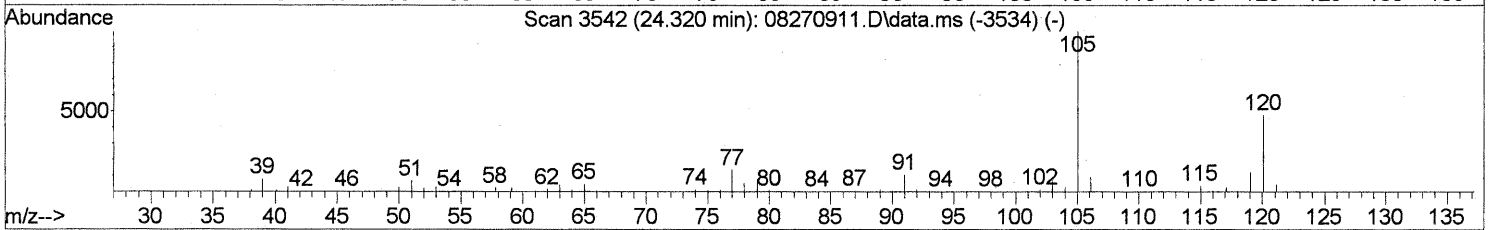
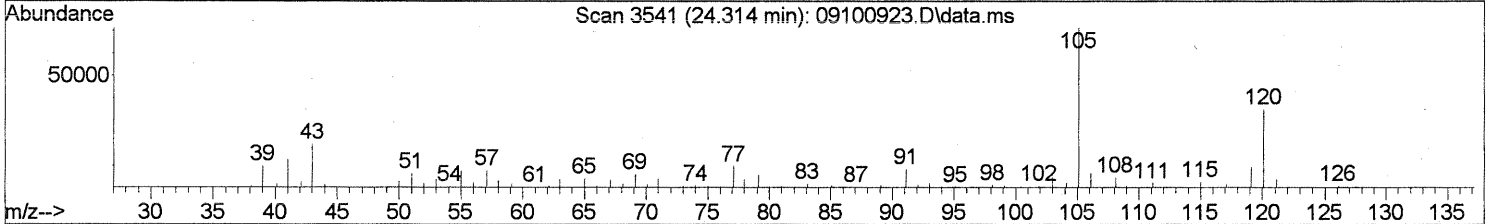
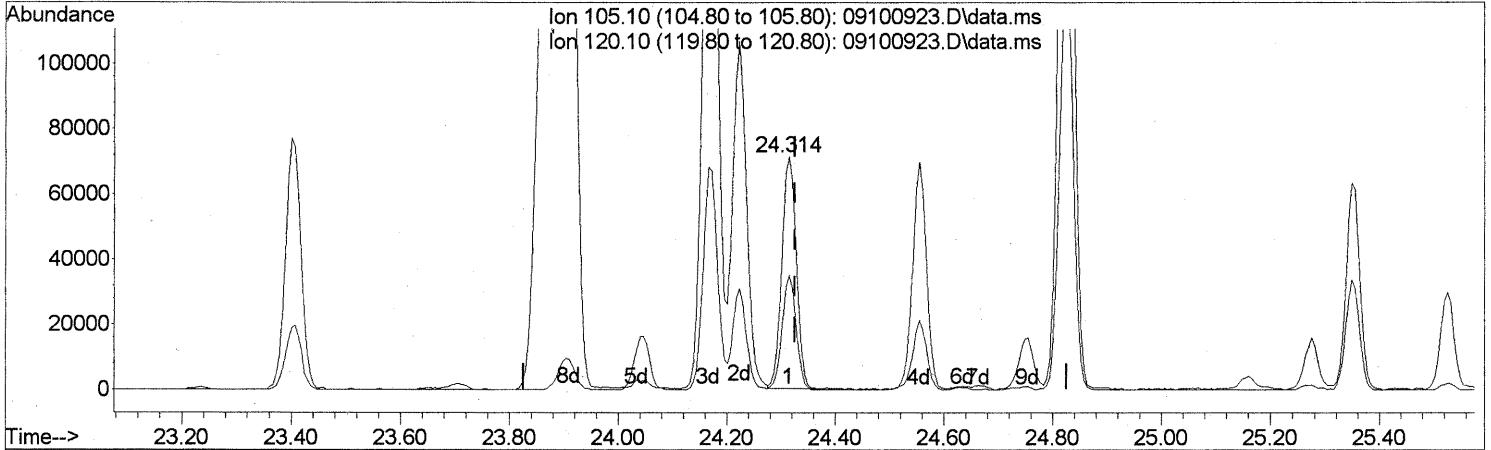
(78) 4-Ethyltoluene (T)
 24.223min (-0.017) 2.63ng
 response 188511

Ion	Exp%	Act%
105.10	100	100
120.10	28.70	28.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

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

24.314min (-0.011) 2.21ng

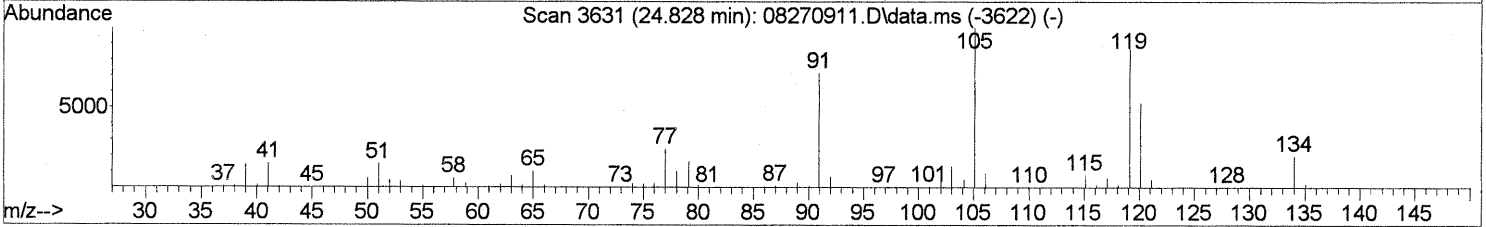
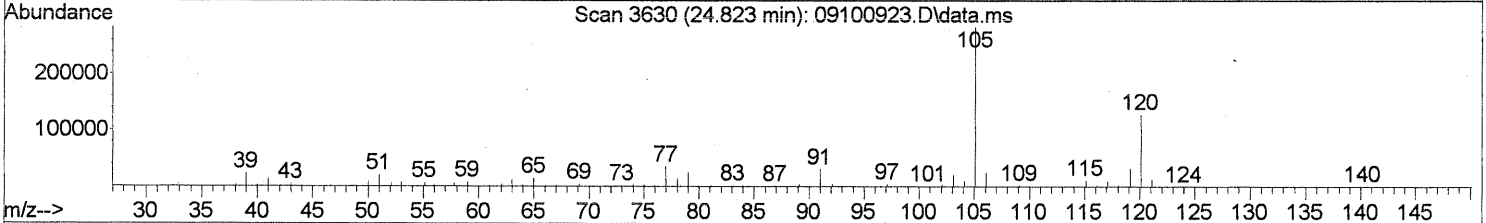
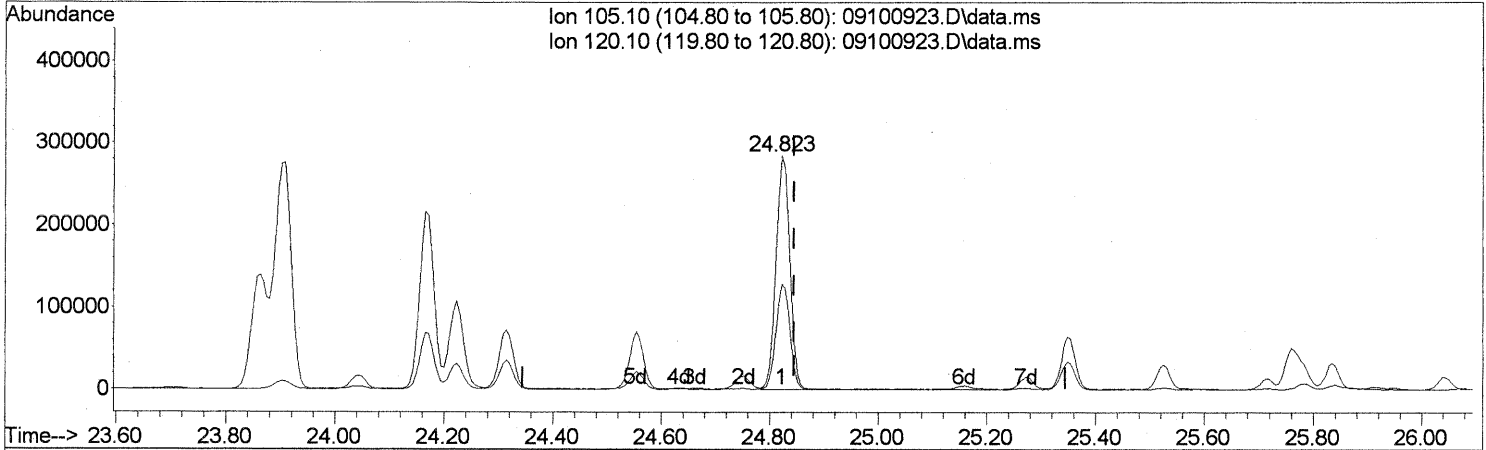
response 131404

Ion	Exp%	Act%
105.10	100	100
120.10	47.70	47.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

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

24.823min (-0.023) 8.23ng

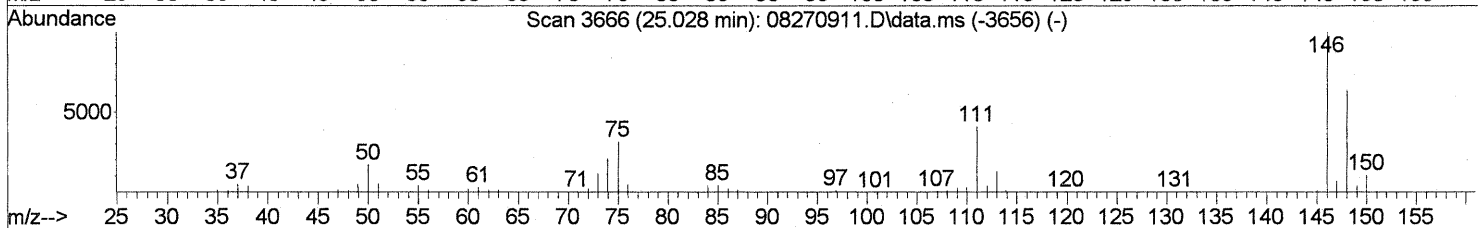
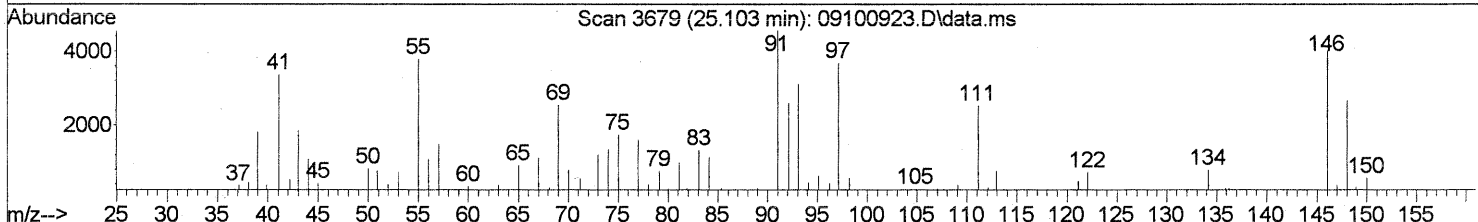
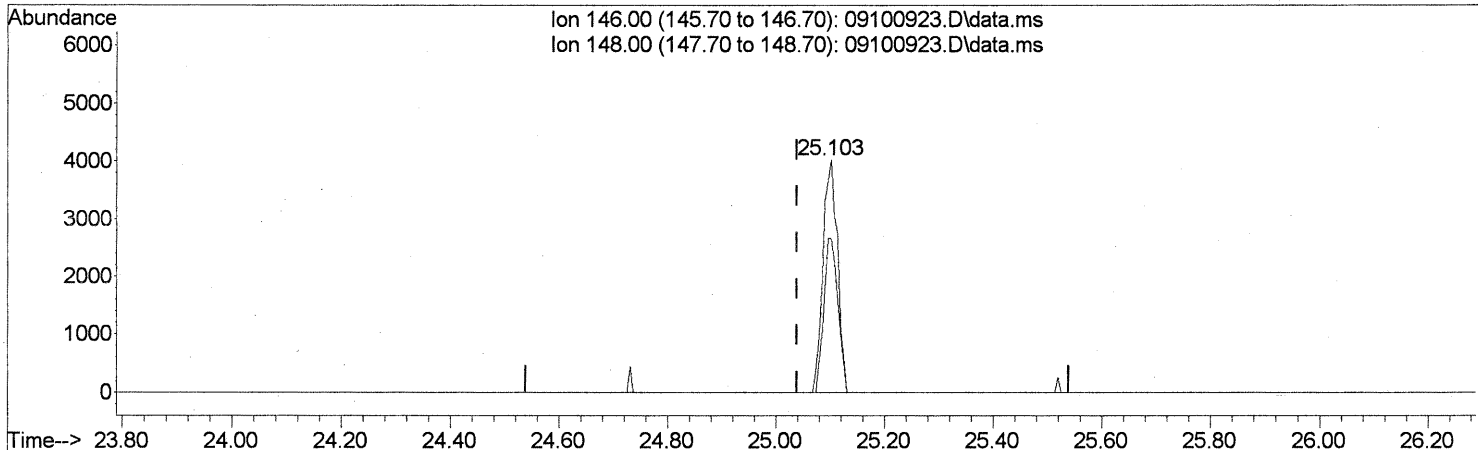
response 500854

Ion	Exp%	Act%
105.10	100	100
120.10	52.00	45.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.103min (+0.063) 0.23ng

response 7423

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	64.54
0.00	0.00	0.00
0.00	0.00	0.00

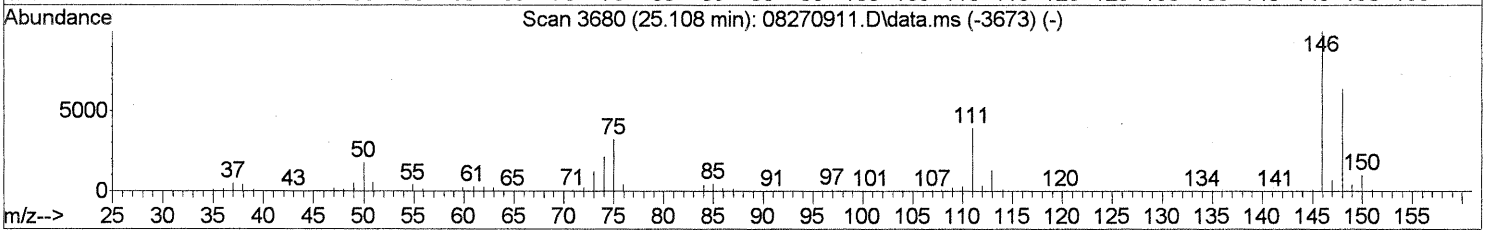
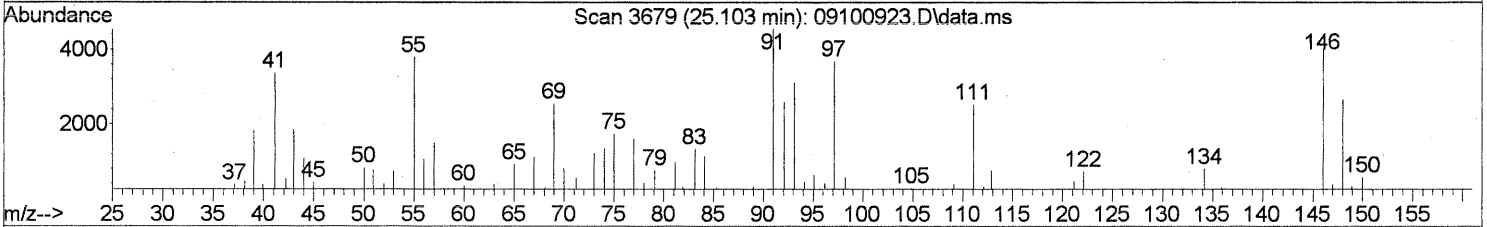
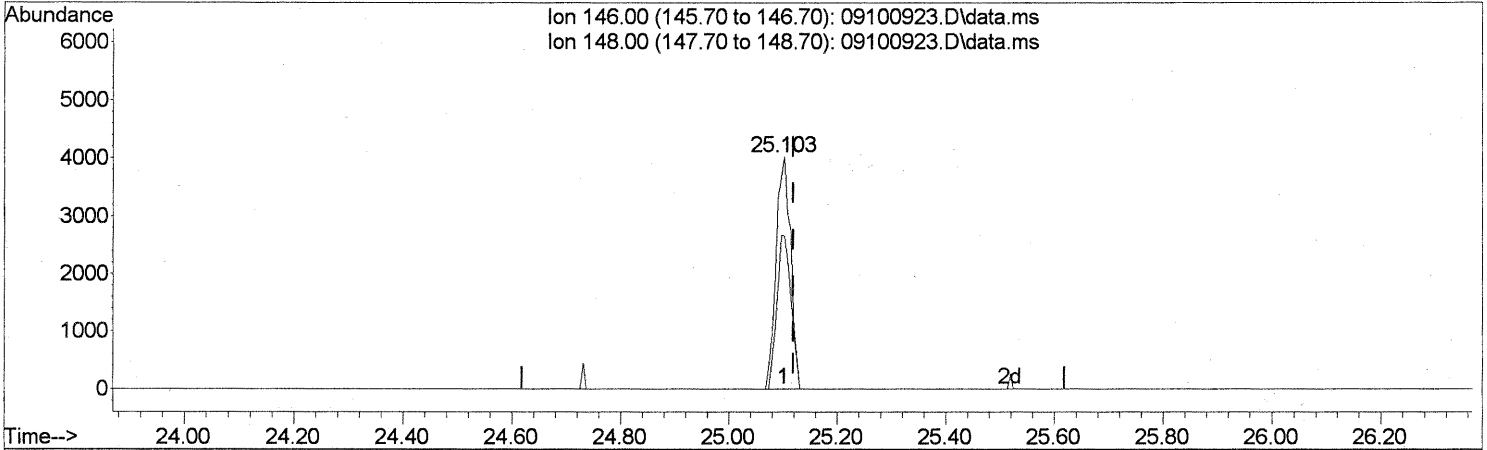
FP
 m 9/20/09

can 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
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 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

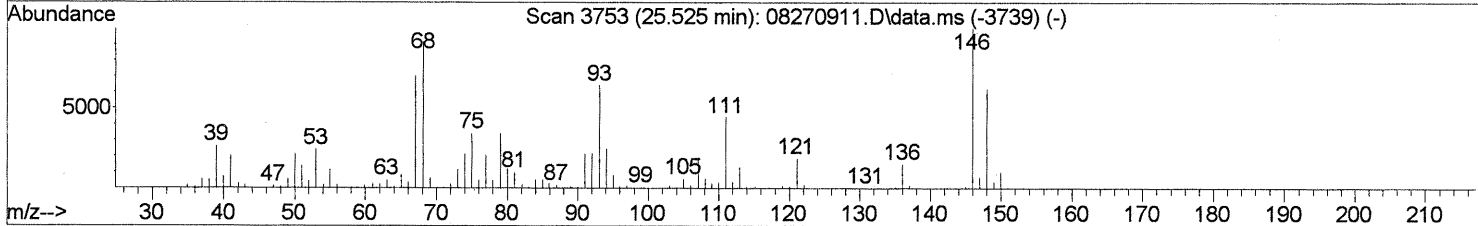
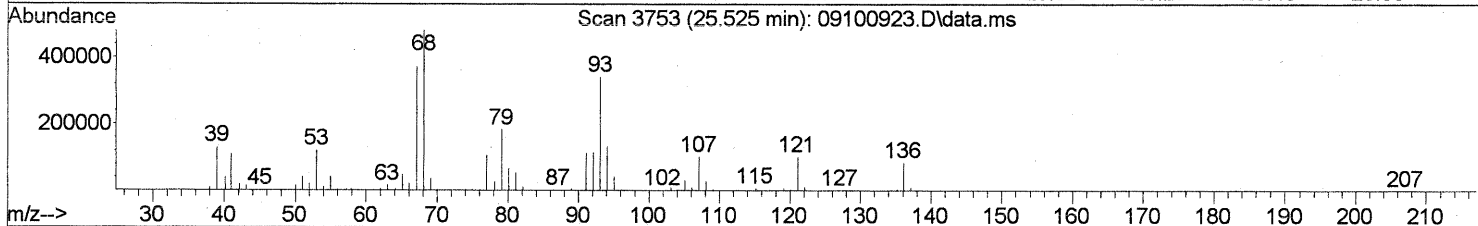
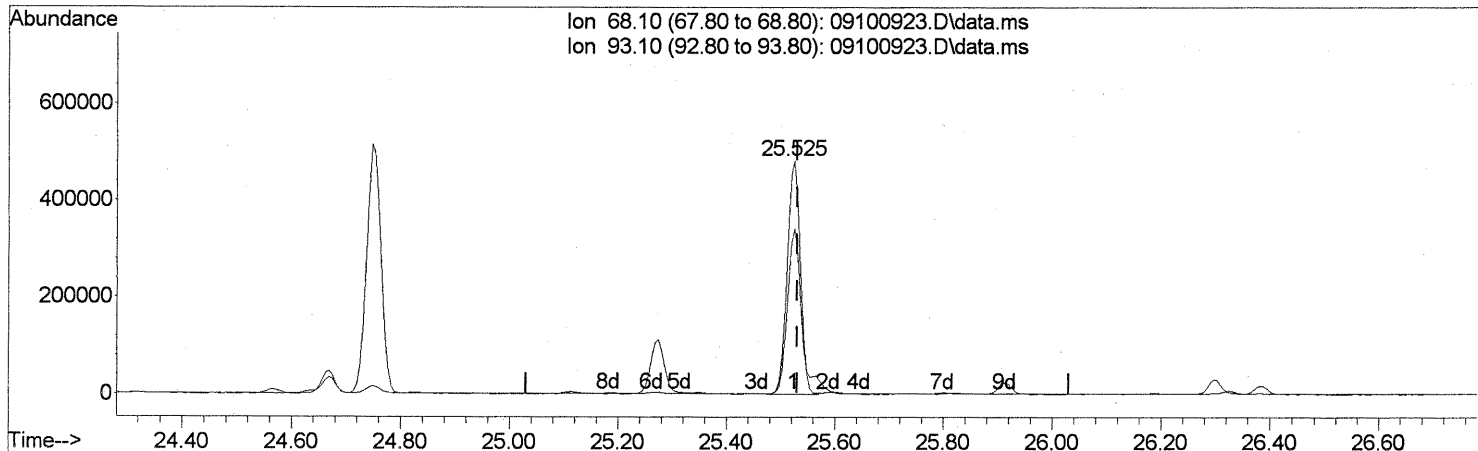
(86) 1,4-Dichlorobenzene (T)
 25.103min (-0.017) 0.22ng
 response 7423

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100923.D\data.ms

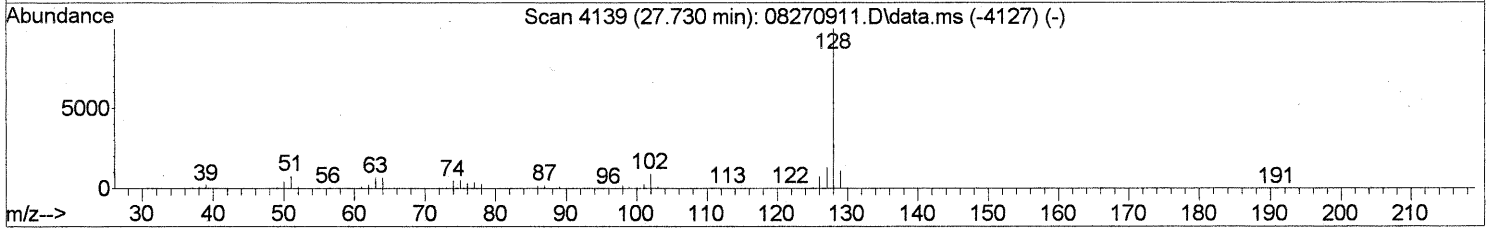
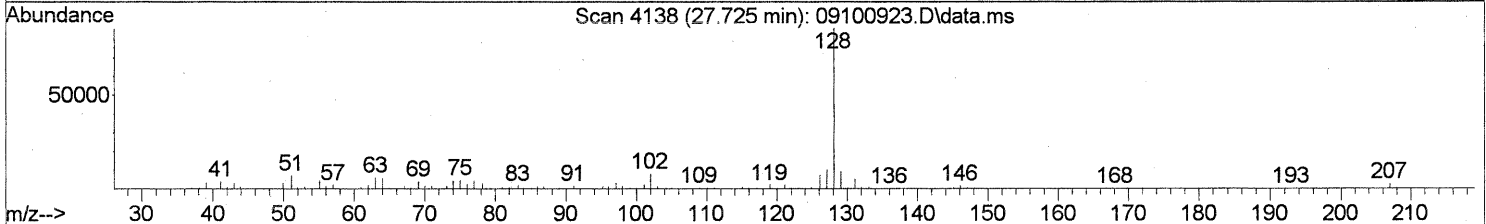
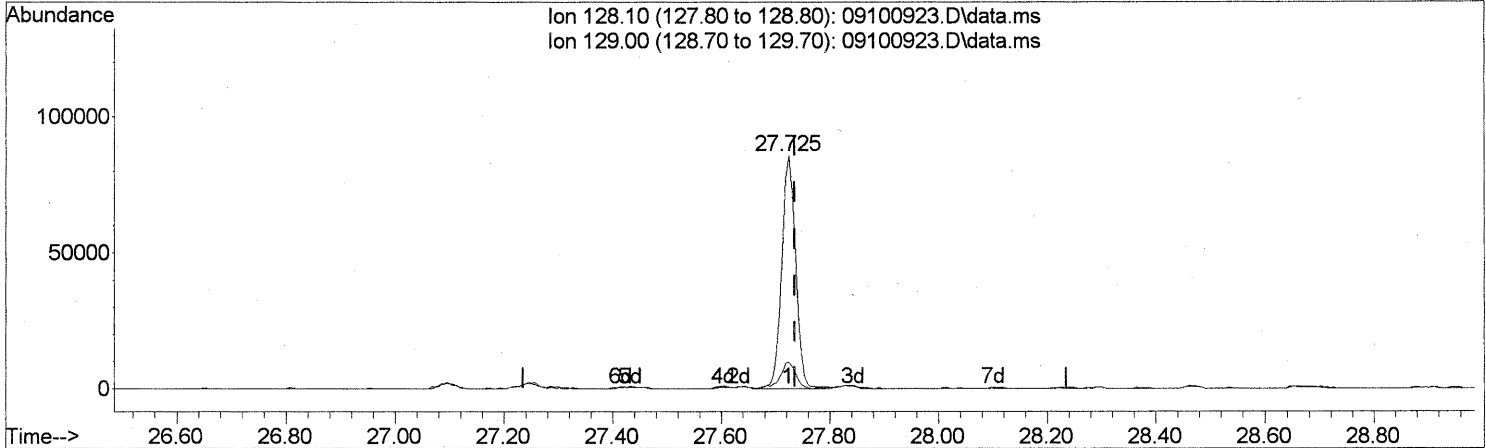
(91) d-Limonene (T)
 25.525min (-0.006) 33.37ng
 response 810127

Ion	Exp%	Act%
68.10	100	100
93.10	69.80	79.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100923.D
 Acq On : 11 Sep 2009 1:50
 Operator : LM/CC
 Sample : P0903141-005 (1000ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:19 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



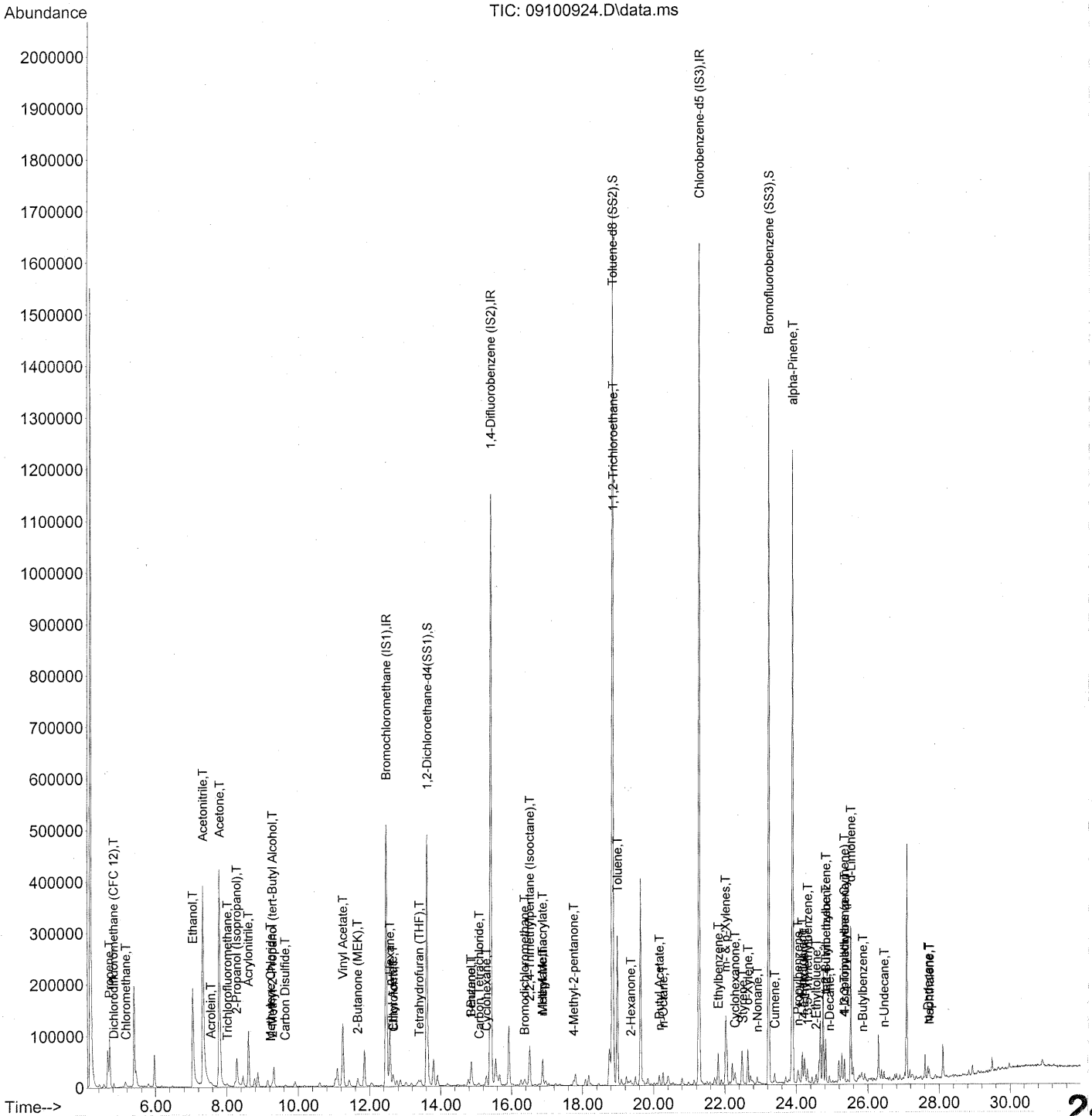
TIC: 09100923.D\data.ms

(95) Naphthalene (T)
 27.725min (-0.011) 1.80ng
 response 151319

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	12.80
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100924.D
 Acq On : 11 Sep 2009 2:30 am
 Operator : LM/CC
 Sample : P0903141-005 dil (100ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:23 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100924.D
 Acq On : 11 Sep 2009 2:30 am
 Operator : LM/CC
 Sample : P0903141-005 dil (100ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:23 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

UM 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.46	130	263894	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.41	114	1321153	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	678134	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	509554	24.366	ng	-0.03
Spiked Amount	25.000		Recovery	=	97.48%	
57) Toluene-d8 (SS2)	18.84	98	1476516	24.363	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.44%	
73) Bromofluorobenzene (SS3)	23.23	174	449842	25.790	ng	-0.01
Spiked Amount	25.000		Recovery	=	103.16%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.71	42	15628	0.819	ng	# 9
3) Dichlorodifluoromethan...	4.84	85	8110	0.243	ng	97
4) Chloromethane	5.18	50	3126	0.139	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.05	45	387930	32.774	ng	100
11) Acetonitrile	7.33	41	720779	21.923	ng	99
12) Acrolein	7.55	56	6643	0.735	ng	95
13) Acetone	7.79	58	157092	12.833	ng	# 77
14) Trichlorofluoromethane	8.02	101	3540	0.120	ng	91
15) 2-Propanol (Isopropanol)	8.28	45	126342	3.105	ng	93
16) Acrylonitrile	8.61	53	1705	0.084	ng	# 9
17) 1,1-Dichloroethene	8.99	96	94	N.D.		
18) 2-Methyl-2-Propanol (t...	9.28	59	3410	0.084	ng	# 1
19) Methylene Chloride	9.23	84	1080	0.070	ng	96
20) 3-Chloro-1-propene (Al...	9.41	41	205	N.D.		
21) Trichlorotrifluoroethane	9.68	151	446	N.D.		
22) Carbon Disulfide	9.63	76	7257	0.131	ng	82
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.25	86	5799	1.890	ng	# 1
27) 2-Butanone (MEK)	11.66	72	7147	0.723	ng	94
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.58	87	218	N.D.		
30) Ethyl Acetate	12.66	61	1566	0.295	ng	85
31) n-Hexane	12.57	57	66062	2.496	ng	10

243

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100924.D
 Acq On : 11 Sep 2009 2:30 am
 Operator : LM/CC
 Sample : P0903141-005 dil (100ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:23 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.67	83	12270	0.470	ng	94
34) Tetrahydrofuran (THF)	13.40	72	3289	0.307	ng #	31
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	240	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.82	61	101	N.D.		
40) 1-Butanol	14.85	56	17656	1.074	ng #	32
41) Benzene	14.86	78	39797	0.641	ng	97
42) Carbon Tetrachloride	15.09	117	1383	0.066	ng	97
43) Cyclohexane	15.29	84	11051	0.483	ng	91
44) tert-Amyl Methyl Ether	15.85	73	245	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	3132	0.153	ng #	26
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.51	57	86766	1.228	ng	92
50) Methyl Methacrylate	16.88	100	4190	0.728	ng #	1
51) n-Heptane	16.87	71	14635	0.909	ng	97
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.75	58	1959	0.138	ng	93
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	126828	8.764	ng #	6
58) Toluene	18.98	91	239183	3.664	ng	99
59) 2-Hexanone	19.36	43	7972	0.200	ng	78
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.16	43	15982	0.349	ng	93
63) n-Octane	20.26	57	5061	0.337	ng	99
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	21.37	112	109	N.D.		
66) Ethylbenzene	21.82	91	55539	0.744	ng	100
67) m- & p-Xylenes	22.02	91	134445	2.262	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	10687	0.244	ng	94
70) o-Xylene	22.65	91	48522	0.813	ng	100
71) n-Nonane	22.91	43	8120	0.226	ng	87
72) 1,1,2,2-Tetrachloroethane	22.69	83	179	N.D.		
74) Cumene	23.40	105	15280	0.202	ng	100
75) alpha-Pinene	23.90	93	579864	14.774	ng	95
76) n-Propylbenzene	24.05	91	14821	0.154	ng #	79
77) 3-Ethyltoluene	24.17	105	38664	0.534	ng	99
78) 4-Ethyltoluene	24.22	105	20304	0.284	ng	96
79) 1,3,5-Trimethylbenzene	24.31	105	13000	0.219	ng	95

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100924.D
 Acq On : 11 Sep 2009 2:30 am
 Operator : LM/CC
 Sample : P0903141-005 dil (100ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:23 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

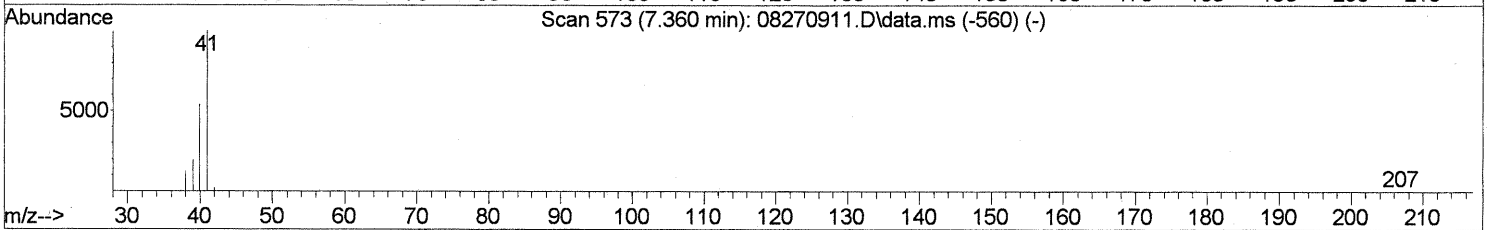
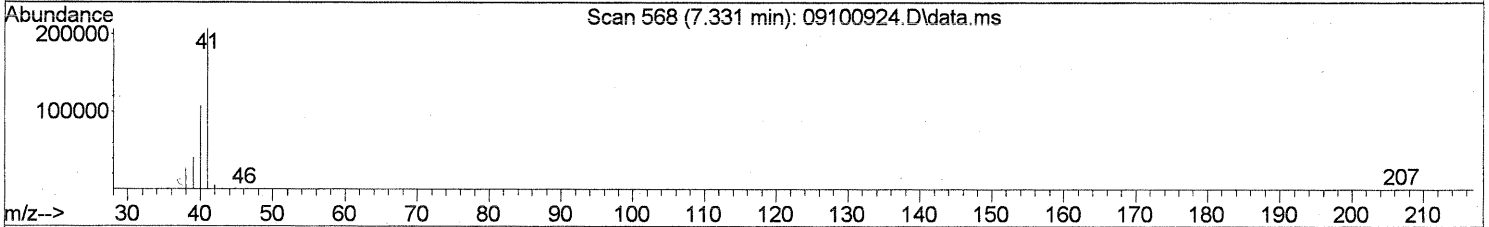
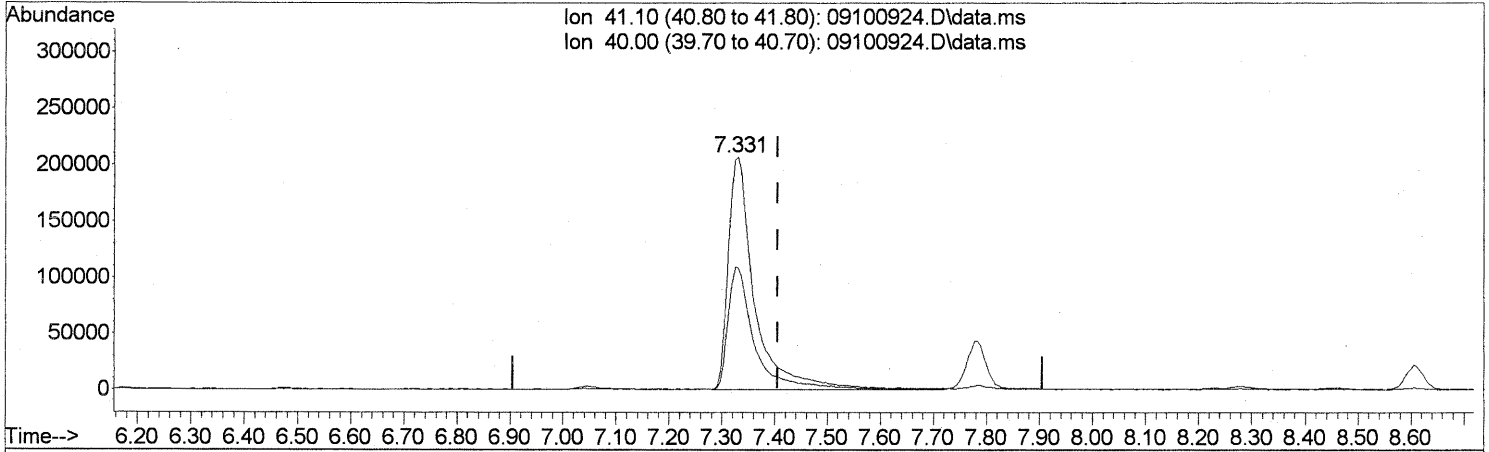
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	88	N.D.		
81) 2-Ethyltoluene	24.55	105	11984	0.161	ng	99
82) 1,2,4-Trimethylbenzene	24.82	105	48878	0.805	ng	93
83) n-Decane	24.93	57	6686	0.184	ng	94
84) Benzyl Chloride	25.04	91	90	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	937	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	937	N.D.		
87) sec-Butylbenzene	25.15	105	1106	N.D.		
88) 4-Isopropyltoluene (p-...	25.34	119	16815	0.225	ng	83
89) 1,2,3-Trimethylbenzene	25.35	105	11234	0.177	ng	98
90) 1,2-Dichlorobenzene	25.10	146	937	N.D.		
91) d-Limonene	25.52	68	78008	3.219	ng	88
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.45	57	6533	0.174	ng	82
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.72	128	14803	0.176	ng	98
96) n-Dodecane	27.69	57	8428	0.197	ng	94
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	13907	0.553	ng	93
99) tert-Butylbenzene	24.82	119	6237	0.106	ng	# 56
100) n-Butylbenzene	25.85	91	7407	0.110	ng	# 51

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100924.D
 Acq On : 11 Sep 2009 2:30
 Operator : LM/CC
 Sample : P0903141-005 dil (100ml)
 Misc : EH&E 105018
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 08:32:23 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100924.D\data.ms

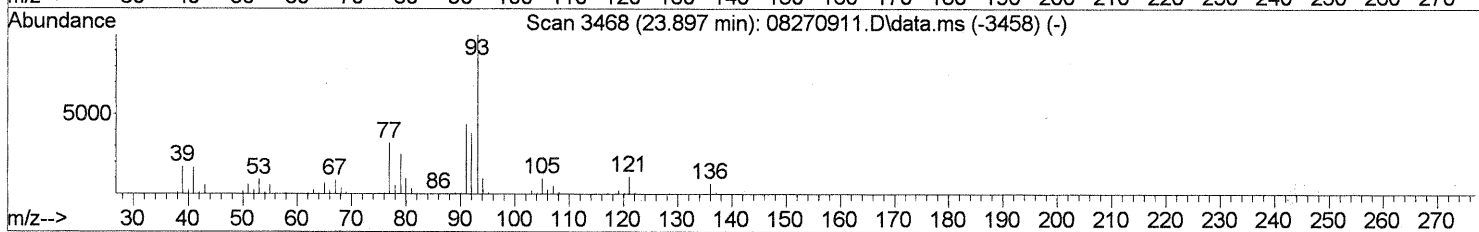
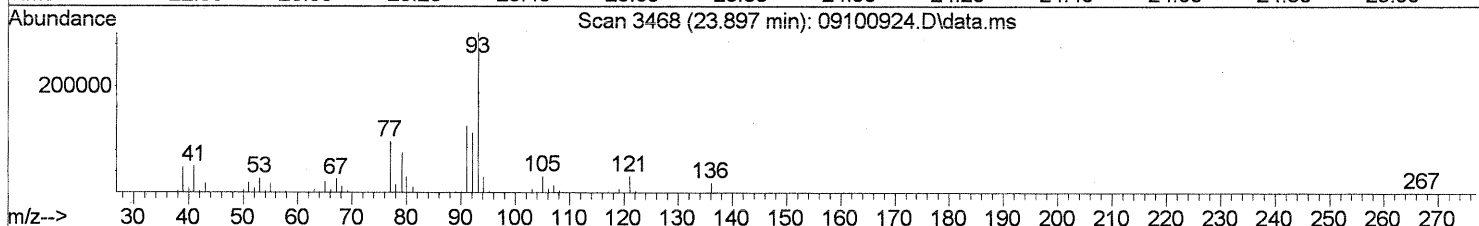
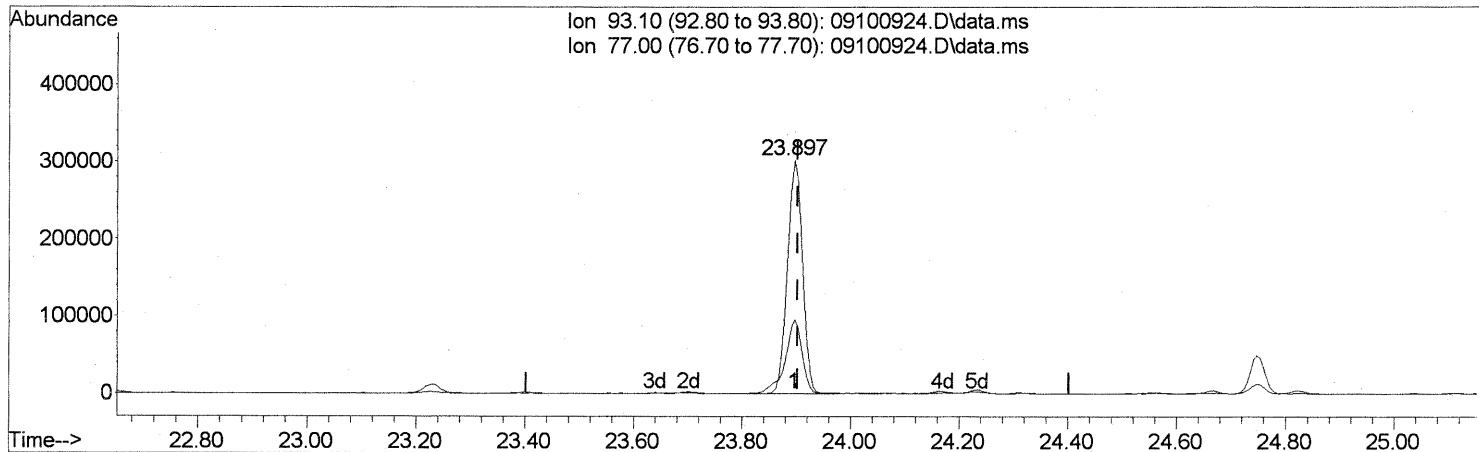
(11) Acetonitrile (T)
 7.331min (-0.075) 21.92ng
 response 720779

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	52.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100924.D
 Acq On : 11 Sep 2009 2:30
 Operator : LM/CC
 Sample : P0903141-005 dil (100ml)
 Misc : EH&E 105018
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TIC: 09100924.D\data.ms

(75) alpha-Pinene (T)
 23.897min (-0.006) 14.77ng
 response 579864

Ion	Exp%	Act%
93.10	100	100
77.00	33.10	35.78
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: 105019
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00400

CAS Project ID: P0903141
CAS Sample ID: P0903141-006

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/11/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.21

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.61	ND	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.3	0.61	0.67	0.12	
74-87-3	Chloromethane	0.47	0.12	0.23	0.059	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.61	ND	0.087	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.047	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.055	
74-83-9	Bromomethane	ND	0.12	ND	0.031	
75-00-3	Chloroethane	ND	0.12	ND	0.046	
64-17-5	Ethanol	6.3	6.1	3.3	3.2	
75-05-8	Acetonitrile	3.3	0.61	2.0	0.36	
107-02-8	Acrolein	0.86	0.61	0.37	0.26	
67-64-1	Acetone	10	6.1	4.3	2.5	
75-69-4	Trichlorofluoromethane	1.6	0.12	0.28	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.61	ND	0.25	
107-13-1	Acrylonitrile	ND	0.61	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.61	ND	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.73	0.12	0.096	0.016	
75-15-0	Carbon Disulfide	ND	0.61	ND	0.19	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.1	ND	1.7	
78-93-3	2-Butanone (MEK)	0.87	0.61	0.30	0.21	

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: Re Date: 9/11/09 **248**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105019
Client Project ID: 16512
 Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00400

CAS Project ID: P0903141
 CAS Sample ID: P0903141-006

Date Collected: 9/3/09
 Date Received: 9/4/09
 Date Analyzed: 9/11/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.21

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	ND	0.61	ND	0.17	
110-54-3	n-Hexane	ND	0.61	ND	0.17	
67-66-3	Chloroform	ND	0.12	ND	0.025	
109-99-9	Tetrahydrofuran (THF)	ND	0.61	ND	0.21	
107-06-2	1,2-Dichloroethane	ND	0.12	ND	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.022	
71-43-2	Benzene	0.15	0.12	0.049	0.038	
56-23-5	Carbon Tetrachloride	0.67	0.12	0.11	0.019	
110-82-7	Cyclohexane	ND	0.61	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.026	
75-27-4	Bromodichloromethane	ND	0.12	ND	0.018	
79-01-6	Trichloroethene	ND	0.12	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.61	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.61	ND	0.15	
142-82-5	n-Heptane	ND	0.61	ND	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.61	ND	0.13	
108-10-1	4-Methyl-2-pentanone	ND	0.61	ND	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.61	ND	0.13	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.022	
108-88-3	Toluene	ND	0.61	ND	0.16	
591-78-6	2-Hexanone	ND	0.61	ND	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	ND	0.61	ND	0.13	

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: Re Date: 9/11/09 **249**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 105019
Client Project ID: 16512

CAS Project ID: P0903141
 CAS Sample ID: P0903141-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00400

Date Collected: 9/3/09
Date Received: 9/4/09
Date Analyzed: 9/11/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.61	ND	0.13	
127-18-4	Tetrachloroethene	ND	0.12	ND	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.026	
100-41-4	Ethylbenzene	ND	0.61	ND	0.14	
179601-23-1	m,p-Xylenes	ND	0.61	ND	0.14	
75-25-2	Bromoform	ND	0.61	ND	0.059	
100-42-5	Styrene	ND	0.61	ND	0.14	
95-47-6	o-Xylene	ND	0.61	ND	0.14	
111-84-2	n-Nonane	ND	0.61	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.61	ND	0.12	
80-56-8	alpha-Pinene	1.0	0.61	0.18	0.11	
103-65-1	n-Propylbenzene	ND	0.61	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.61	ND	0.12	
108-67-8	1,3,5-Trimethylbenzene	ND	0.61	ND	0.12	
95-63-6	1,2,4-Trimethylbenzene	ND	0.61	ND	0.12	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.12	ND	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.020	
5989-27-5	d-Limonene	ND	0.61	ND	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.61	ND	0.063	
120-82-1	1,2,4-Trichlorobenzene	ND	0.61	ND	0.082	
91-20-3	Naphthalene	ND	0.61	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.61	ND	0.057	

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

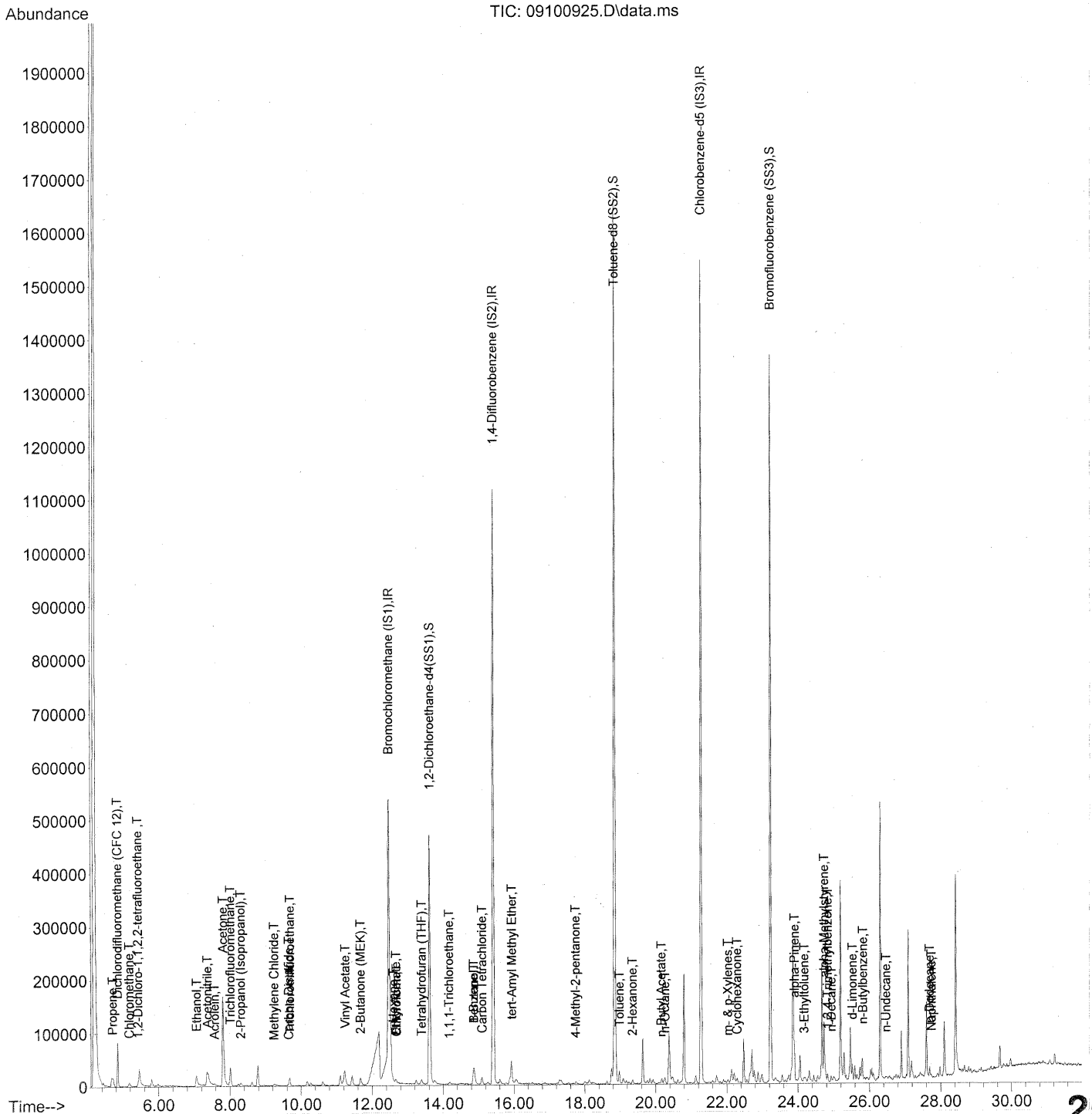
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 9/11/09 **250**

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12 am
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 16:31:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12 am
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 16:31:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

M 9/20/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	253930	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1271110	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	646219	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	494211	24.560	ng	-0.03
Spiked Amount	25.000			Recovery =	98.24%	
57) Toluene-d8 (SS2)	18.84	98	1403150	24.296	ng	-0.02
Spiked Amount	25.000			Recovery =	97.20%	
73) Bromofluorobenzene (SS3)	23.23	174	437970	26.350	ng	-0.01
Spiked Amount	25.000			Recovery =	105.40%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.70	42	5465	0.298	ng	# 64
3) Dichlorodifluoromethan...	4.85	85	88022	2.737	ng	100
4) Chloromethane	5.18	50	8398	0.388	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	1347	0.101	ng	# 43
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.38	94	300	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.06	45	59129	5.191	ng	97
11) Acetonitrile	7.37	41	85722	2.710	ng	100
12) Acrolein	7.57	56	6151	0.707	ng	90
13) Acetone	7.81	58	99893	8.481	ng	88
14) Trichlorofluoromethane	8.01	101	37017	1.306	ng	96
15) 2-Propanol (Isopropanol)	8.30	45	14258m	0.364	ng	<i>L MRL</i>
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	8.99	96	100	N.D.		
18) 2-Methyl-2-Propanol (t...	9.27	59	1870	N.D.		
19) Methylene Chloride	9.23	84	2234	0.150	ng	90
20) 3-Chloro-1-propene (Al...	9.33	41	97	N.D.		
21) Trichlorotrifluoroethane	9.68	151	6806	0.606	ng	100
22) Carbon Disulfide	9.64	76	4855	0.091	ng	80
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	11.10	73	102	N.D.		
26) Vinyl Acetate	11.23	86	6556	2.221	ng	# 39
27) 2-Butanone (MEK)	11.67	72	6870	0.722	ng	96
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	d	
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.67	61	604	0.118	ng	# 32
31) n-Hexane	12.59	57	2083	0.082	ng	# 63

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12 am
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 16:31:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	2079	0.083	ng	96
34) Tetrahydrofuran (THF)	13.39	72	2604	0.252	ng #	79
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.78	62	801	N.D.		
38) 1,1,1-Trichloroethane	14.16	97	1207	0.051	ng #	31
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.86	56	31853	2.013	ng #	37
41) Benzene	<u>14.86</u>	78	7637	0.128	ng	98
42) Carbon Tetrachloride	<u>15.09</u>	117	11121	0.554	ng	98
43) Cyclohexane	15.30	84	102	N.D.		
44) tert-Amyl Methyl Ether	15.93	73	4276	0.097	ng #	1
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.04	83	292	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...	16.51	57	2114	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	16.88	71	95	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.74	58	1708	0.125	ng #	44
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	18.97	91	9768	0.157	ng	97
59) 2-Hexanone	19.34	43	8049	0.212	ng	89
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.16	43	3665	0.084	ng #	52
63) n-Octane	20.26	57	2055	0.144	ng #	63
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.81	91	2217	N.D.		
67) m- & p-Xylenes	22.03	91	6286	0.111	ng	100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.49	104	1800	N.D.		
70) o-Xylene	22.65	91	2564	N.D.		
71) n-Nonane	22.90	43	1408	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.63	83	185	N.D.		
74) Cumene	23.41	105	350	N.D.		
75) alpha-Pinene	<u>23.90</u>	93	31572	0.844	ng #	42
76) n-Propylbenzene	24.04	91	1959	N.D.		
77) 3-Ethyltoluene	24.17	105	3767	0.055	ng	75
78) 4-Ethyltoluene	24.22	105	1644	N.D.		
79) 1,3,5-Trimethylbenzene	24.31	105	1233	N.D.		

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12 am
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 16:31:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

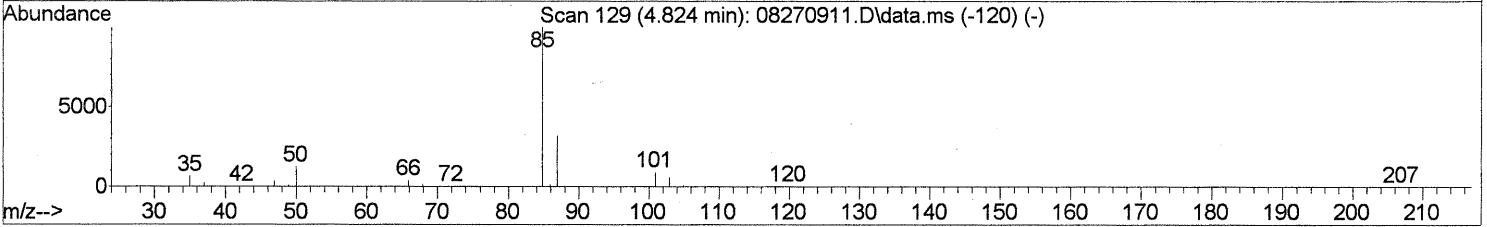
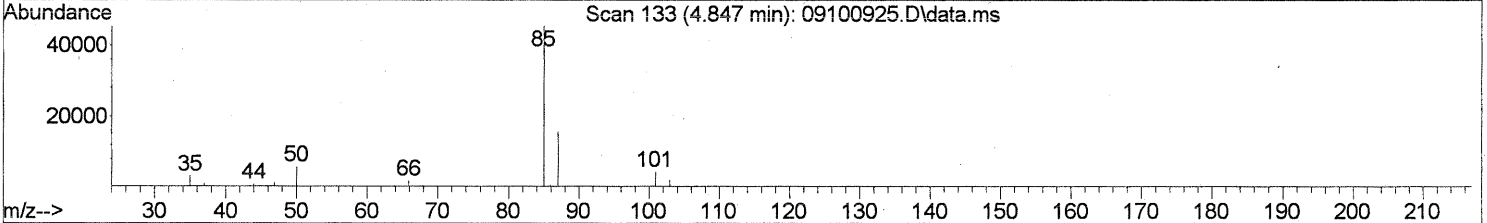
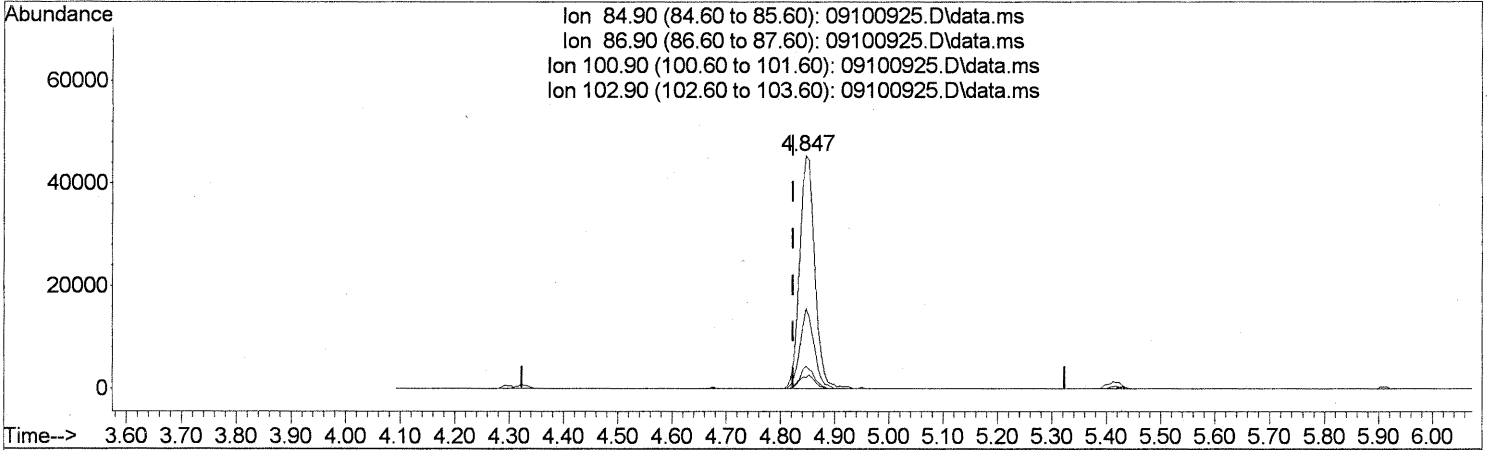
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	1812	0.061	ng #	5
81) 2-Ethyltoluene	24.55	105	1281	N.D.		
82) 1,2,4-Trimethylbenzene	24.82	105	3888	0.067	ng	86
83) n-Decane	24.93	57	6126	0.177	ng	92
84) Benzyl Chloride	24.99	91	701	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	308	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	308	N.D.		
87) sec-Butylbenzene	25.18	105	446	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	2084	N.D.		
89) 1,2,3-Trimethylbenzene	25.35	105	1077	N.D.		
90) 1,2-Dichlorobenzene	25.10	146	308	N.D.		
91) d-Limonene	25.52	68	7310	0.317	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	3412	0.095	ng	98
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	4774	0.060	ng	93
96) n-Dodecane	27.68	57	8106	0.198	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	5584	0.233	ng	94
99) tert-Butylbenzene	24.82	119	355	N.D.		
100) n-Butylbenzene	25.81	91	3782	0.059	ng #	32

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 08:32:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.847min (+0.023) 2.74ng

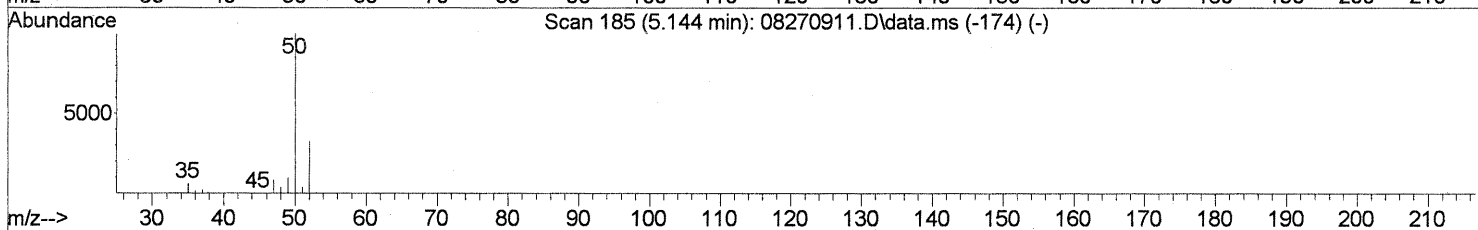
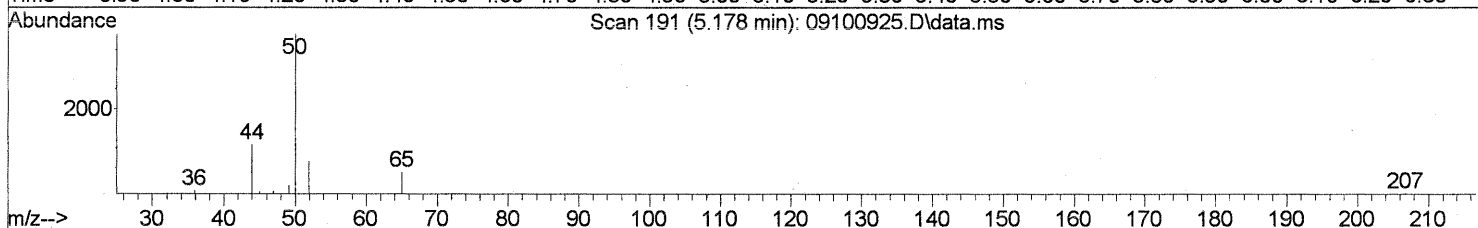
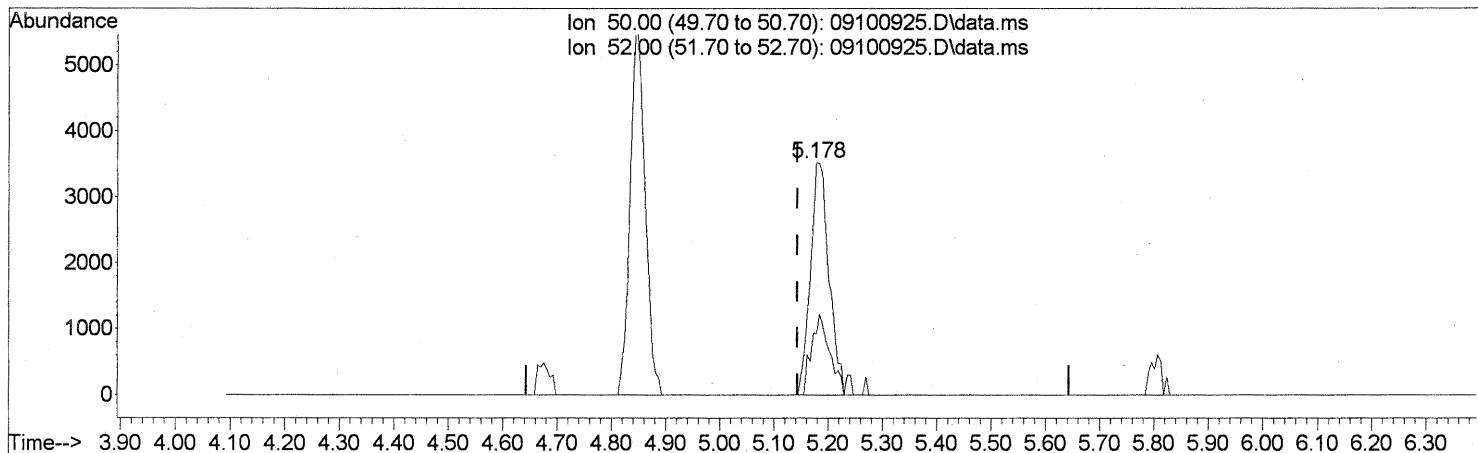
response 88022

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.02
100.90	8.80	8.60
102.90	5.60	5.59

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 08:32:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

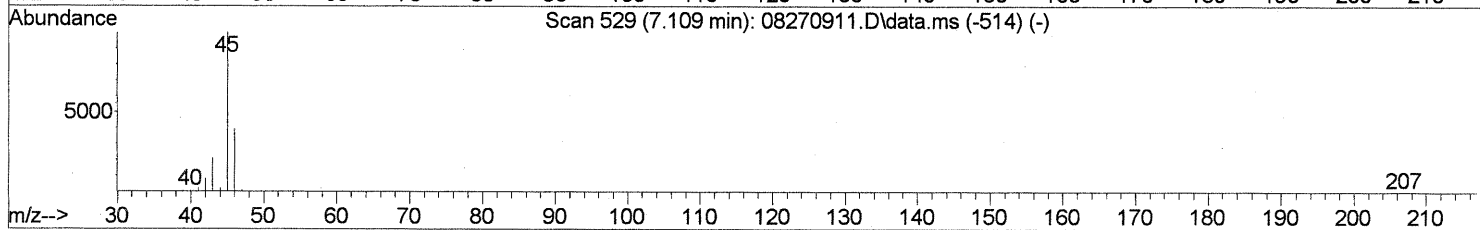
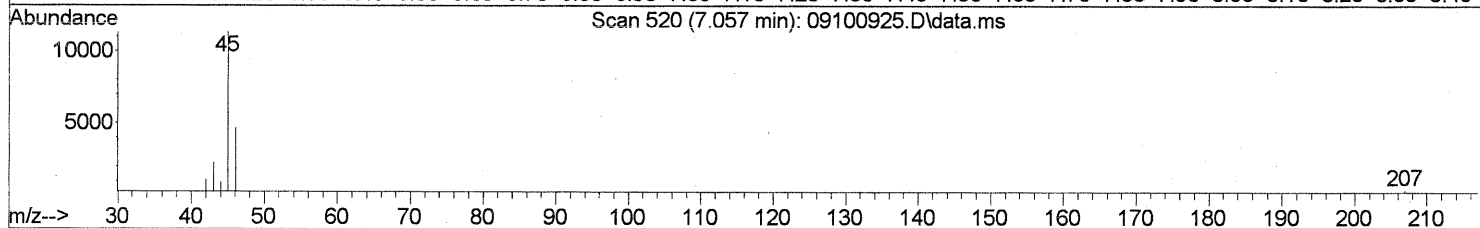
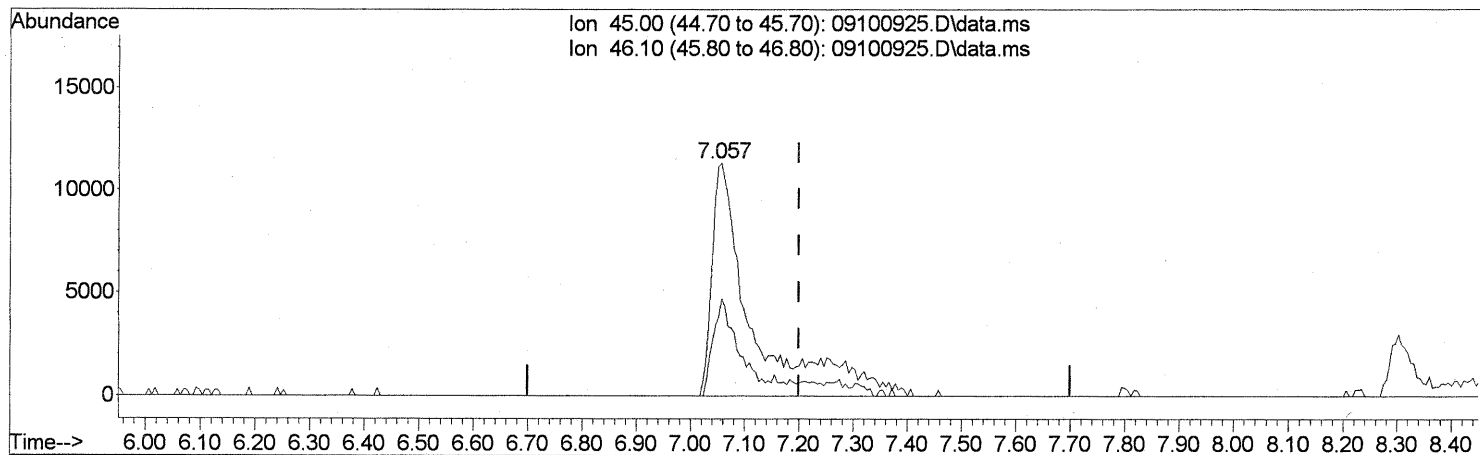
(4) Chloromethane (T)
 5.178min (+0.034) 0.39ng
 response 8398

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	33.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 08:32:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

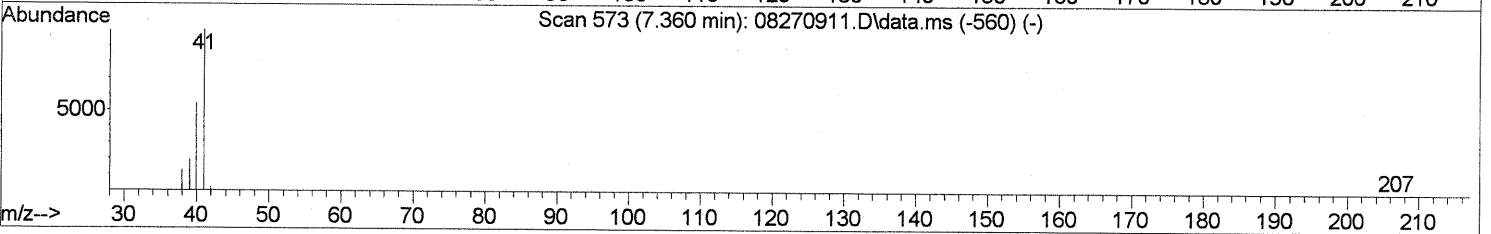
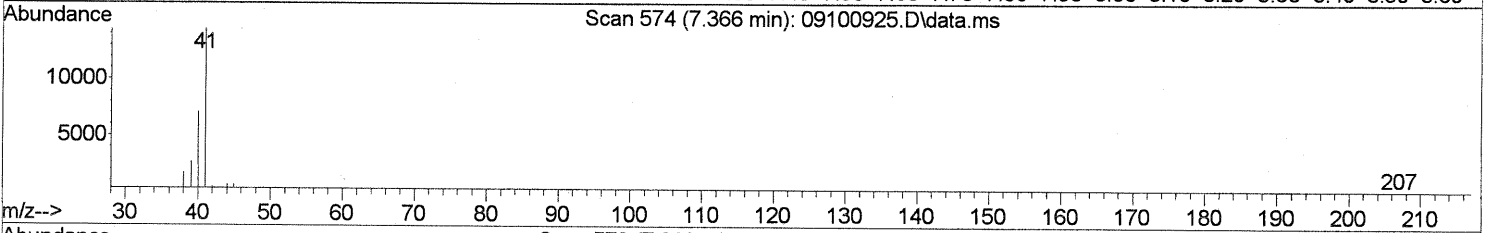
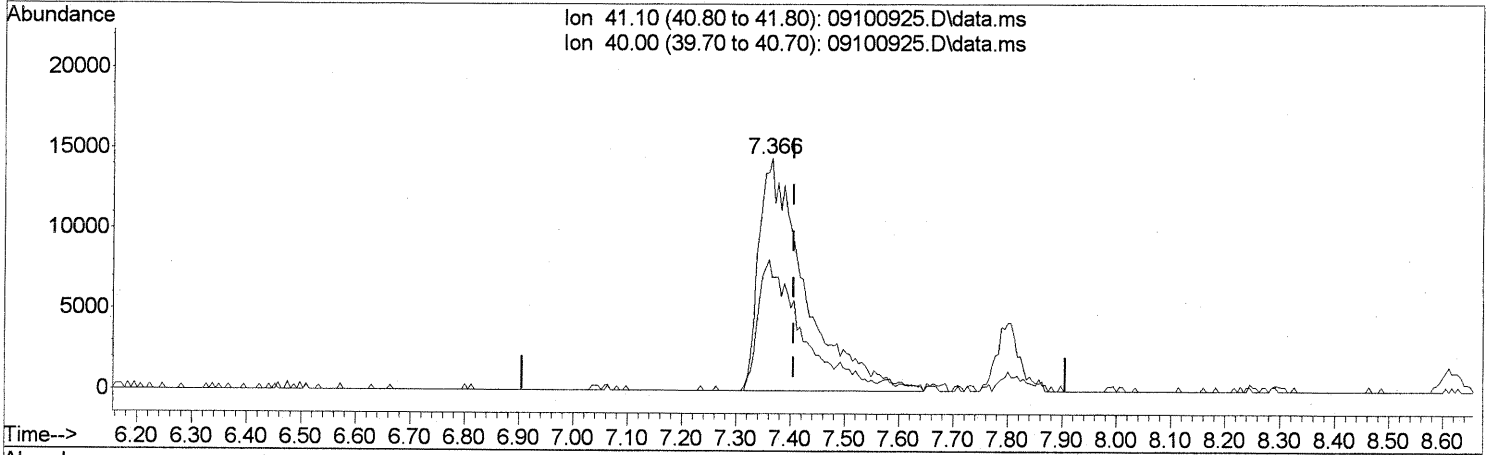
(10) Ethanol (T)
 7.057min (-0.143) 5.19ng
 response 59129

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	36.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 08:32:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

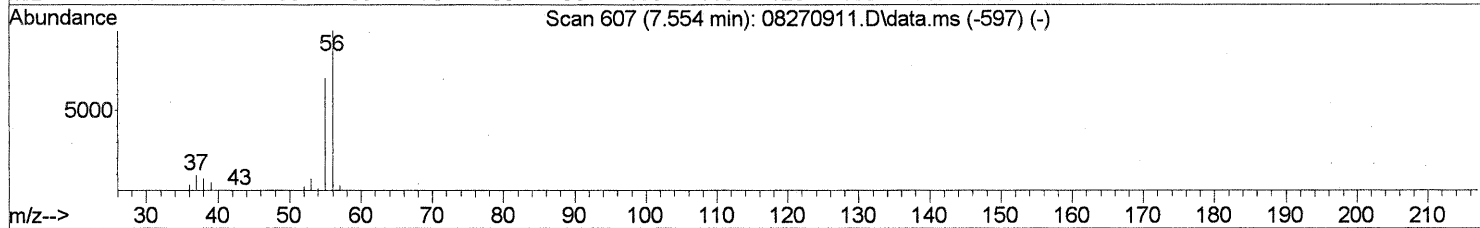
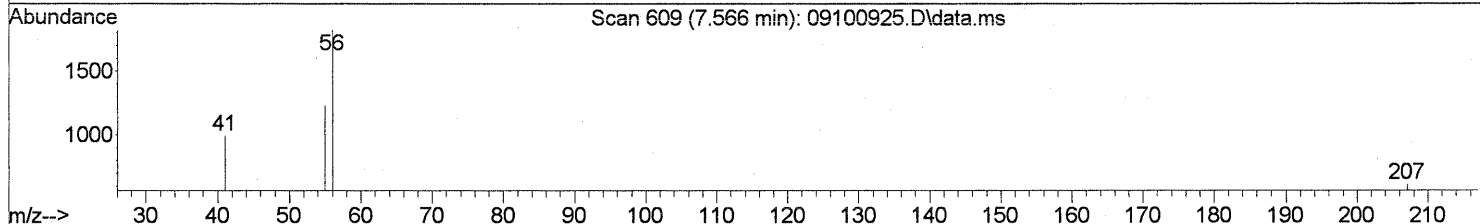
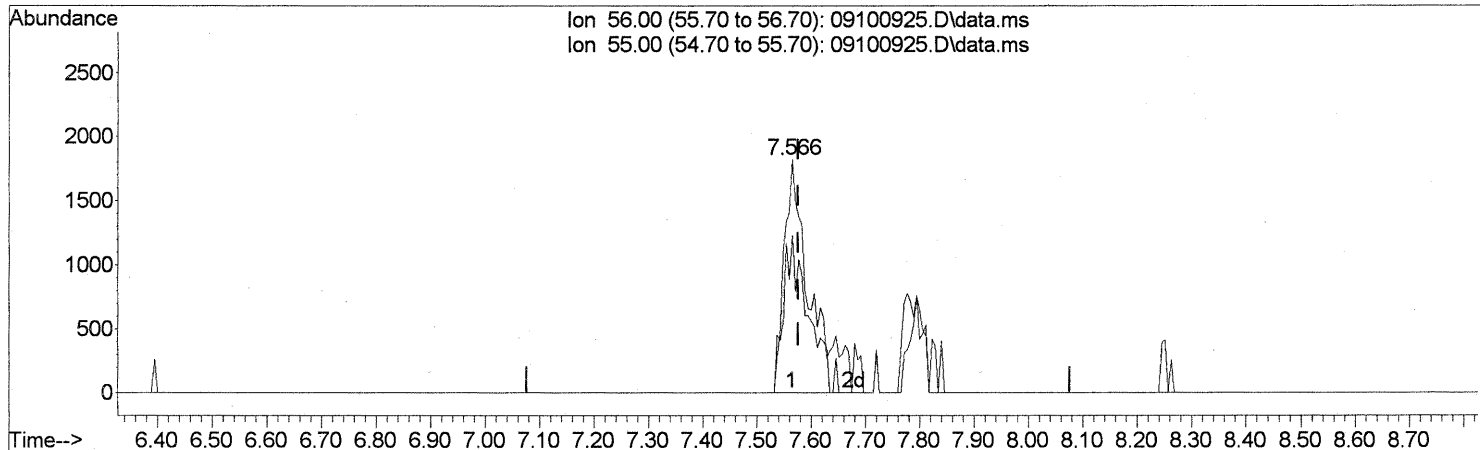
(11) Acetonitrile (T)
 7.366min (-0.040) 2.71ng
 response 85722

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 08:32:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

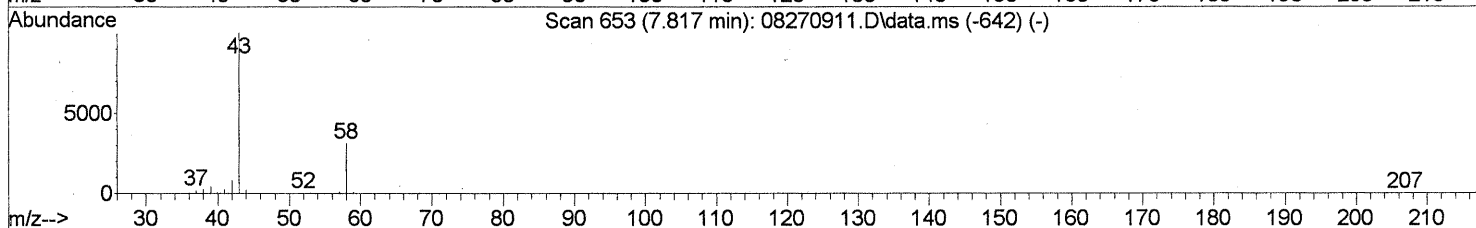
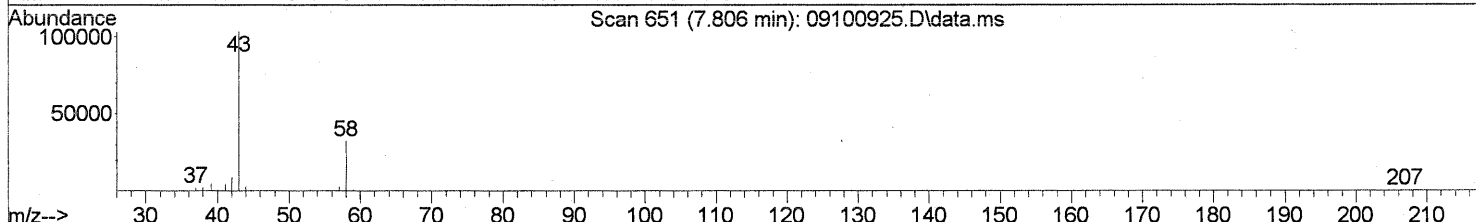
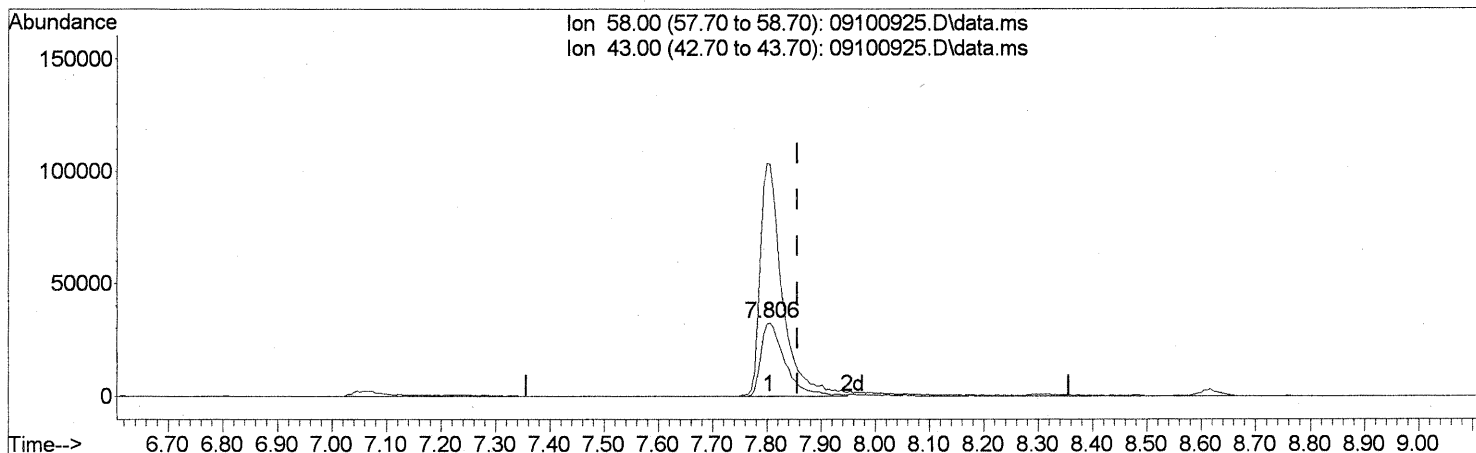
(12) Acrolein (T)
 7.566min (-0.011) 0.71ng
 response 6151

Ion	Exp%	Act%
56.00	100	100
55.00	71.10	62.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 08:32:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

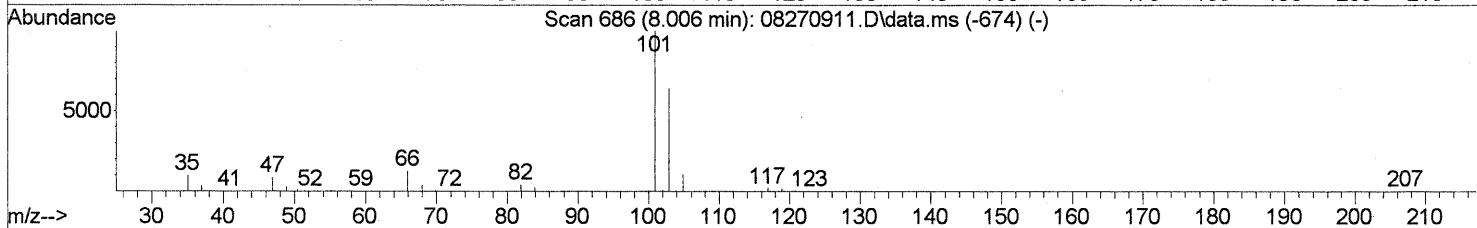
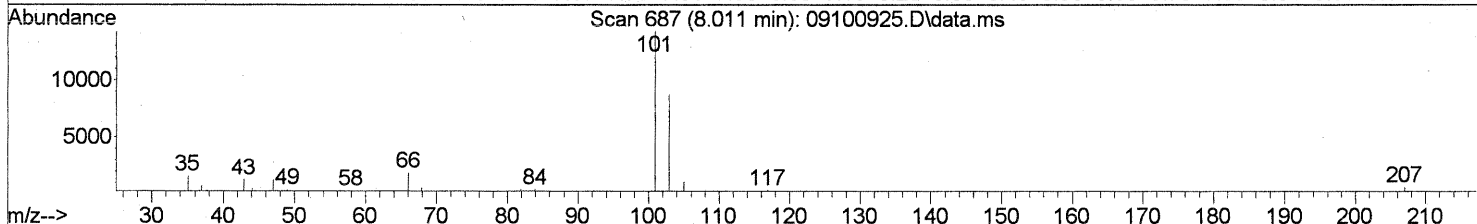
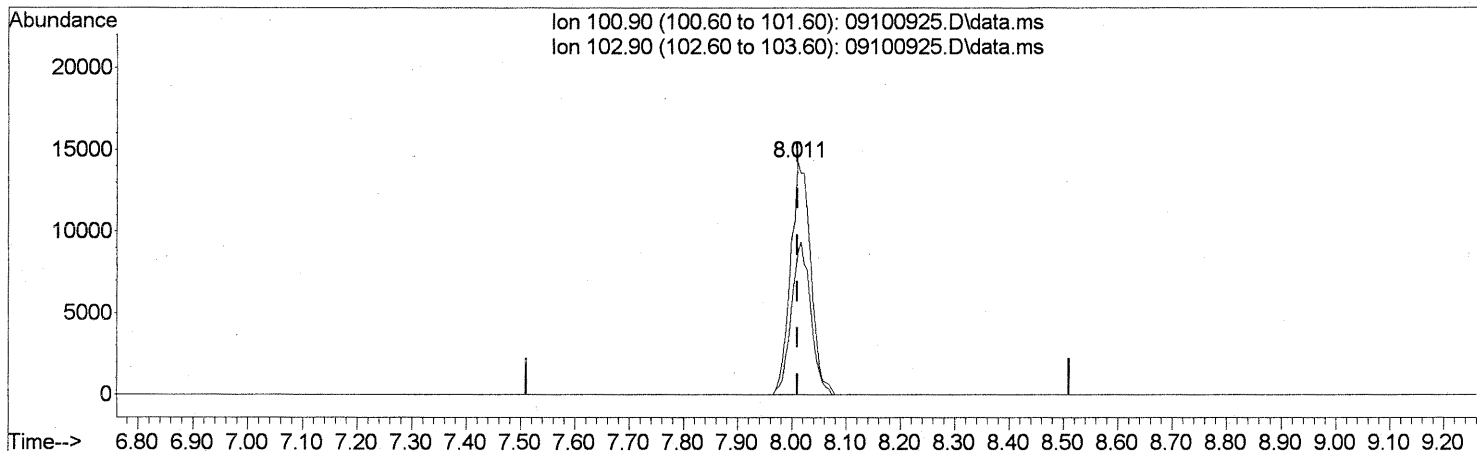
(13) Acetone (T)
 7.806min (-0.051) 8.48ng
 response 99893

Ion	Exp%	Act%
58.00	100	100
43.00	331.30	306.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 08:32:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

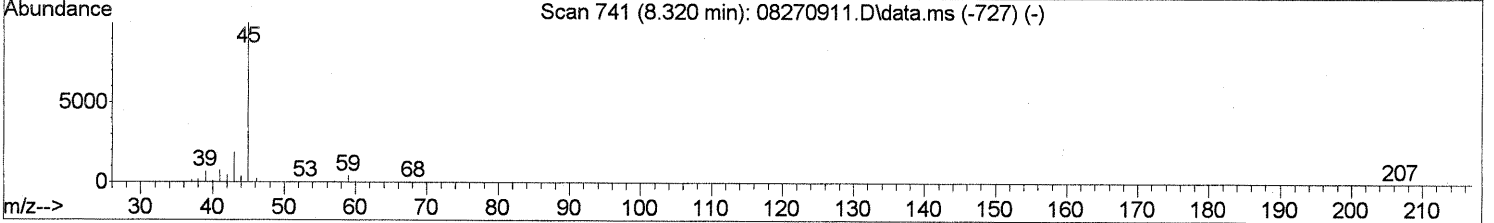
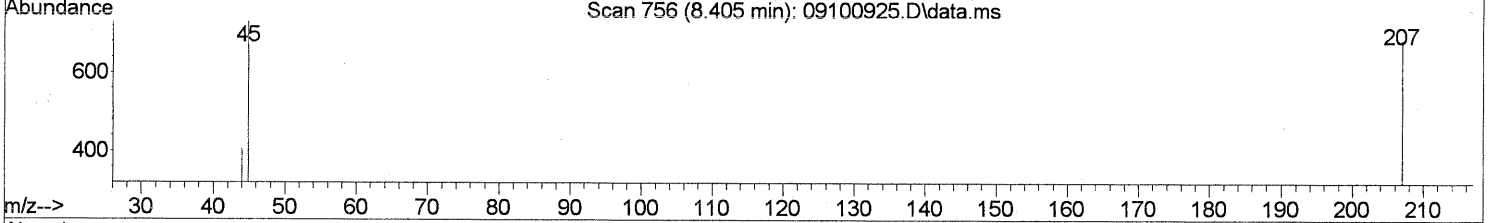
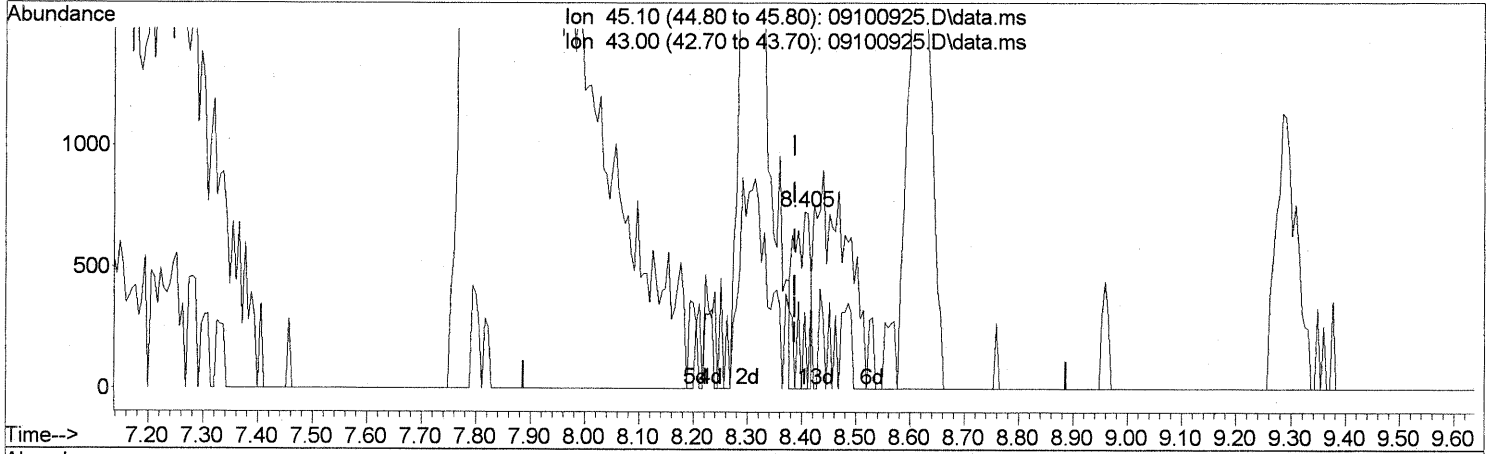
(14) Trichlorofluoromethane (T)
 8.011min (+0.000) 1.31ng
 response 37017

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	62.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 08:32:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

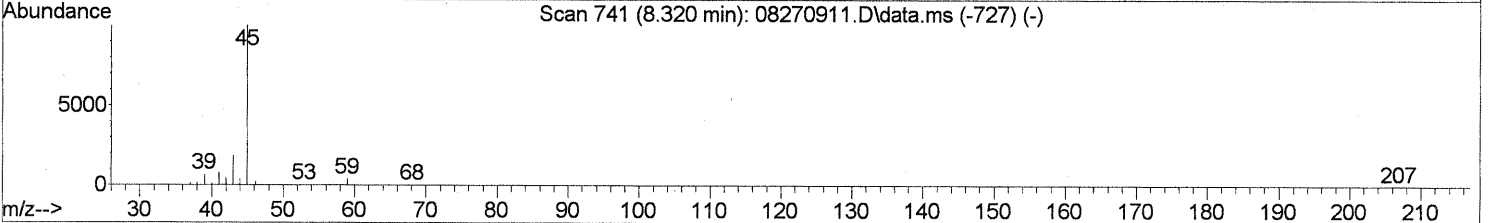
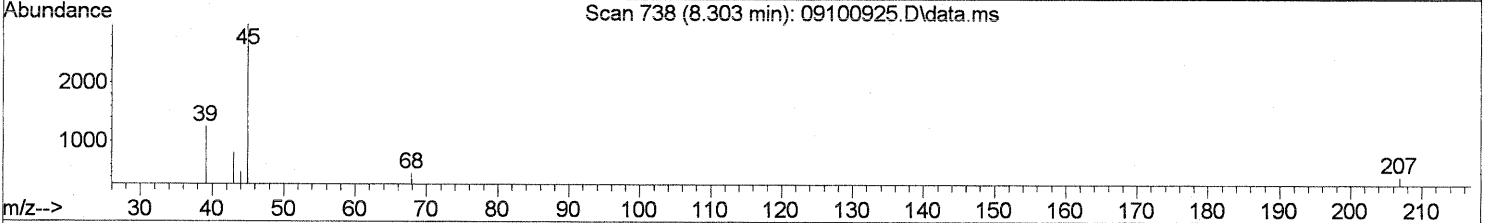
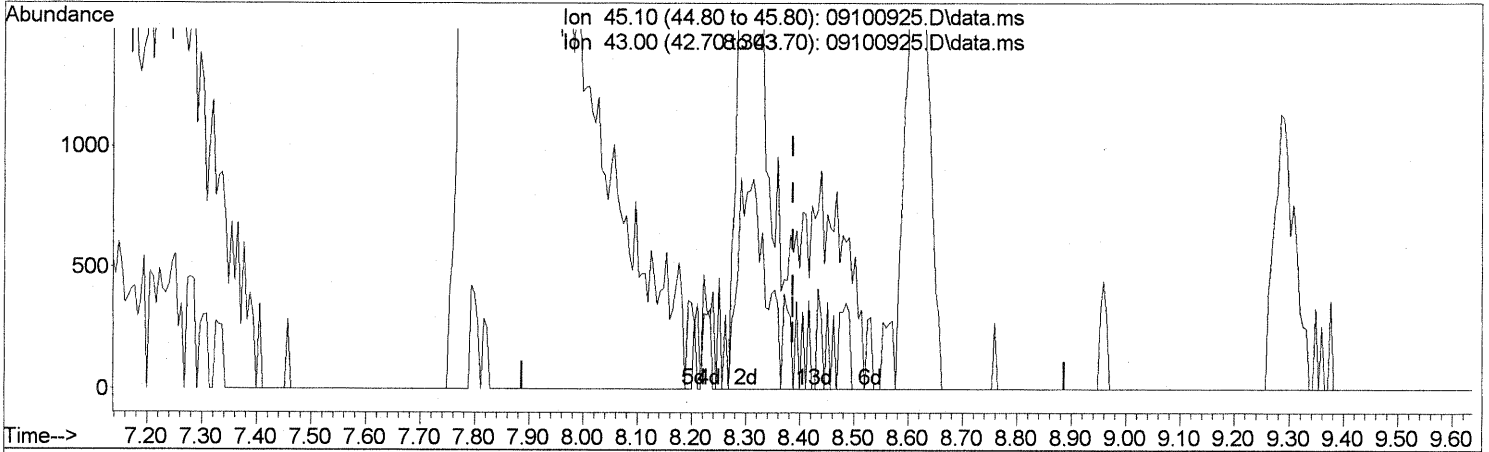
(15) 2-Propanol (Isopropanol) (T)
 8.405min (+0.017) 0.04ng
 response 1460 *MP*

Ion	Exp%	Act%
45.10	100	100
43.00	18.70	8.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 08:32:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

(15) 2-Propanol (Isopropanol) (T)
 8.303min (-0.085) 0.36ng m
 response 14258

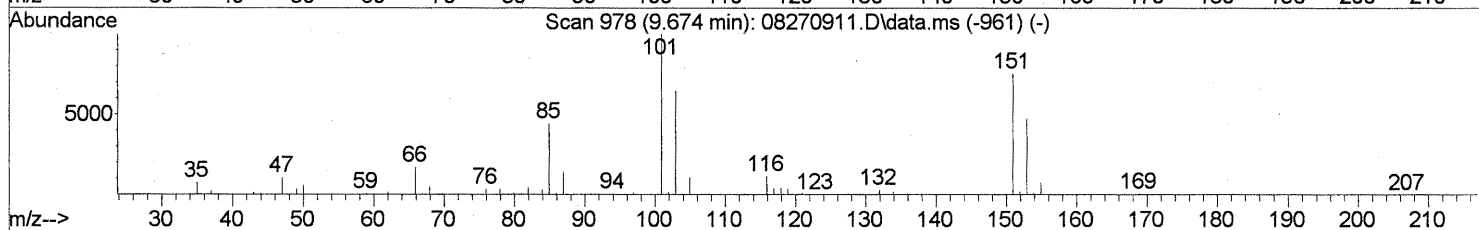
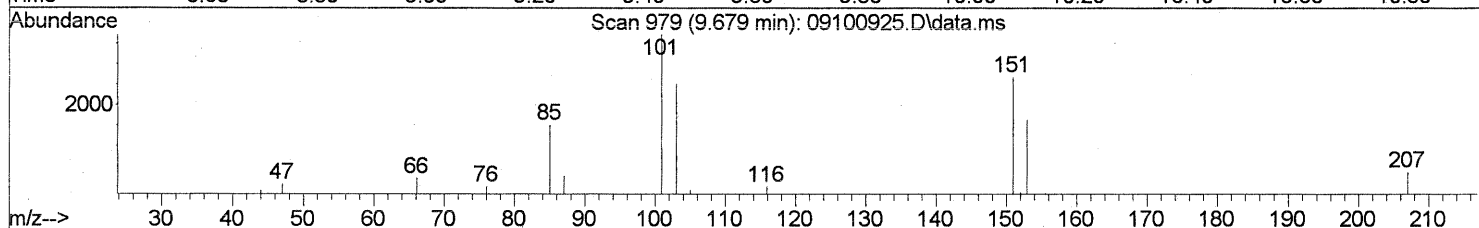
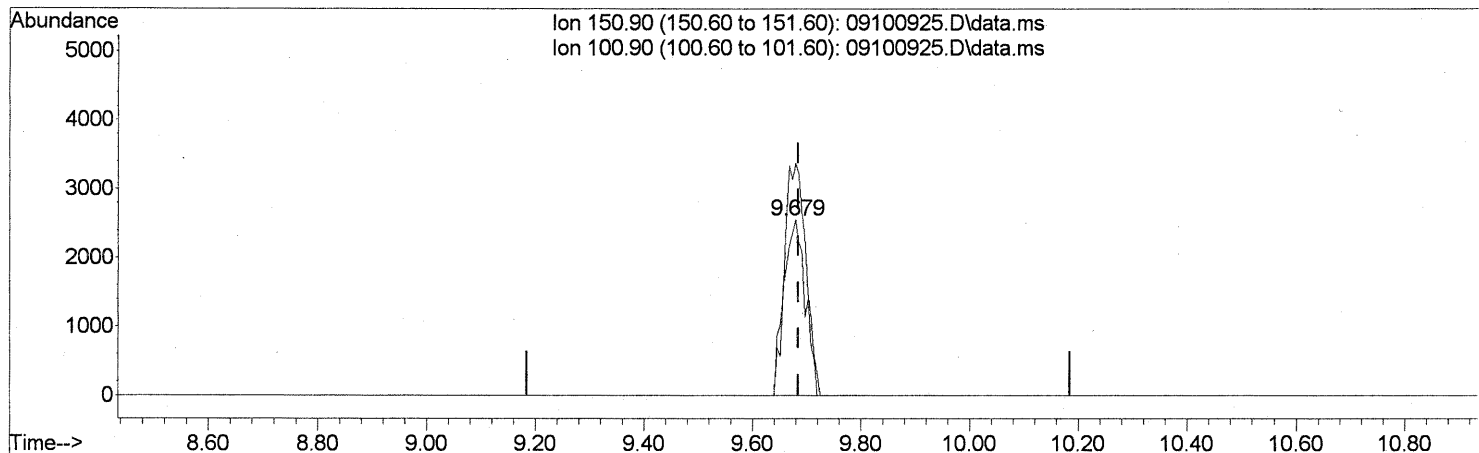
Ion	Exp%	Act%
45.10	100	100
43.00	18.70	0.86
0.00	0.00	0.00
0.00	0.00	0.00

CMRL
MP → K
11/20/09
Scan 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 08:32:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

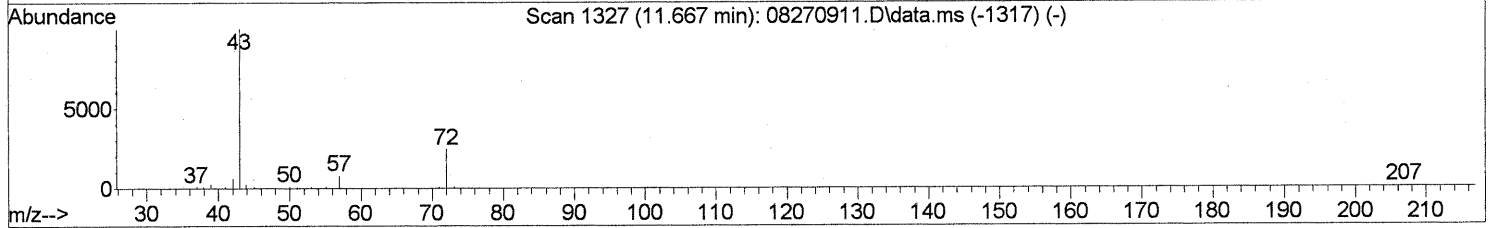
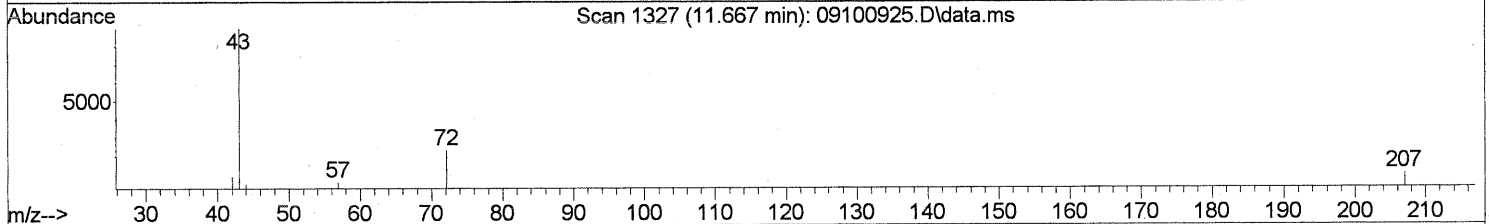
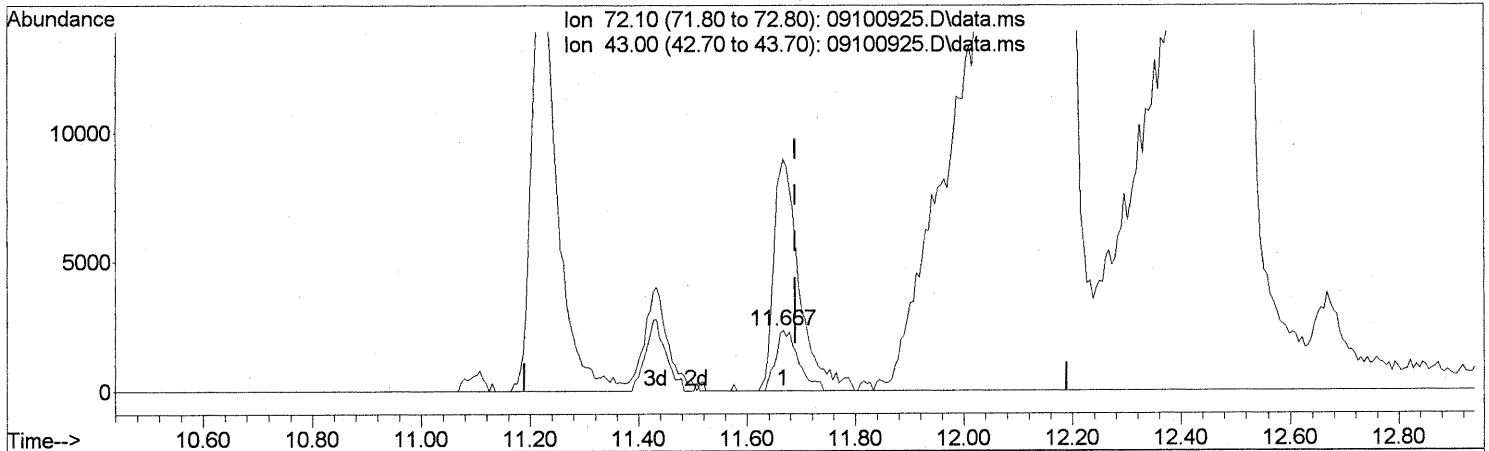
(21) Trichlorotrifluoroethane (T)
 9.679min (-0.006) 0.61ng
 response 6806

Ion	Exp%	Act%
150.90	100	100
100.90	138.30	138.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 16:31:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

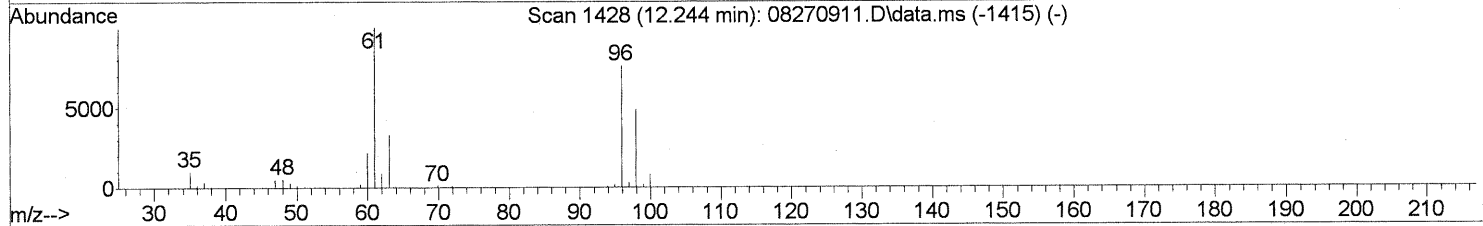
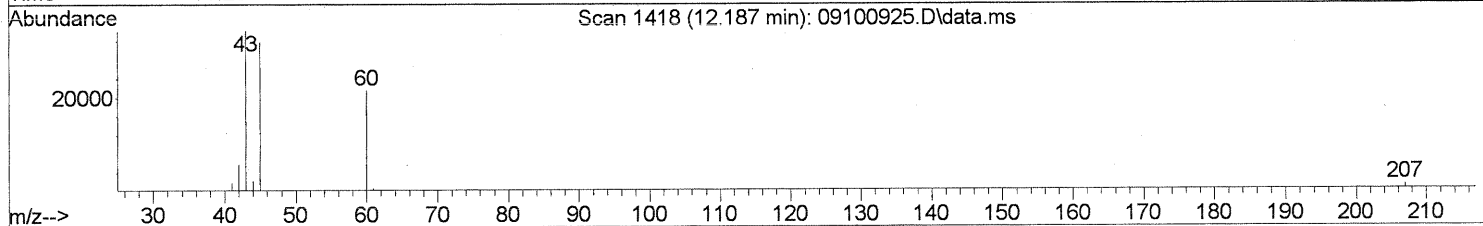
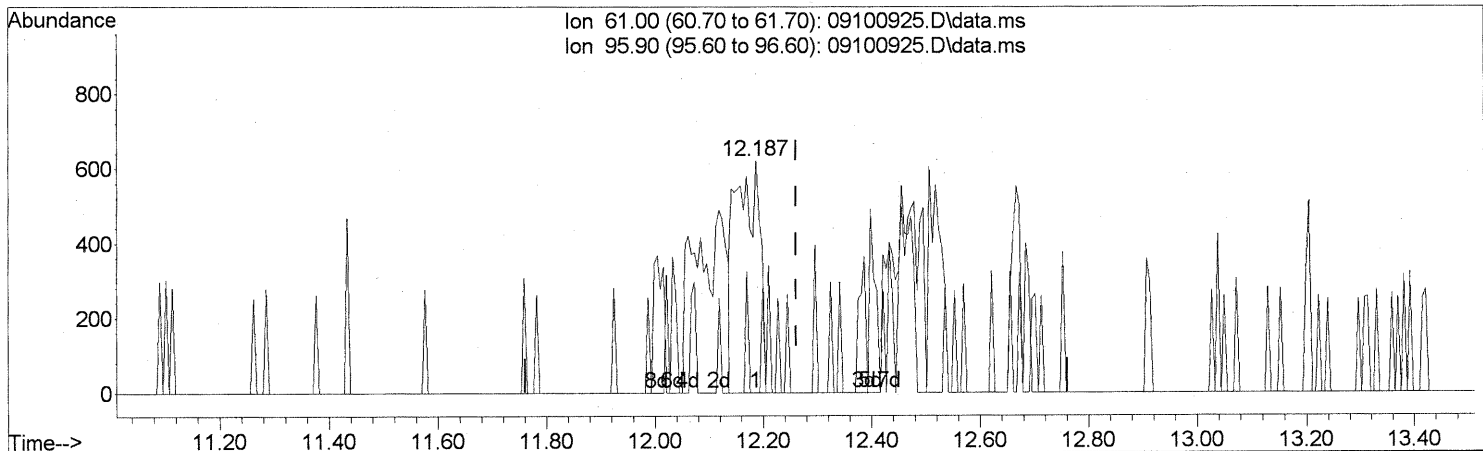
(27) 2-Butanone (MEK) (T)
 11.667min (-0.023) 0.72ng
 response 6870

Ion	Exp%	Act%
72.10	100	100
43.00	424.60	434.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 20:49:55 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

(28) cis-1,2-Dichloroethene (T)
 12.187min (-0.074) 0.10ng
 response 2028

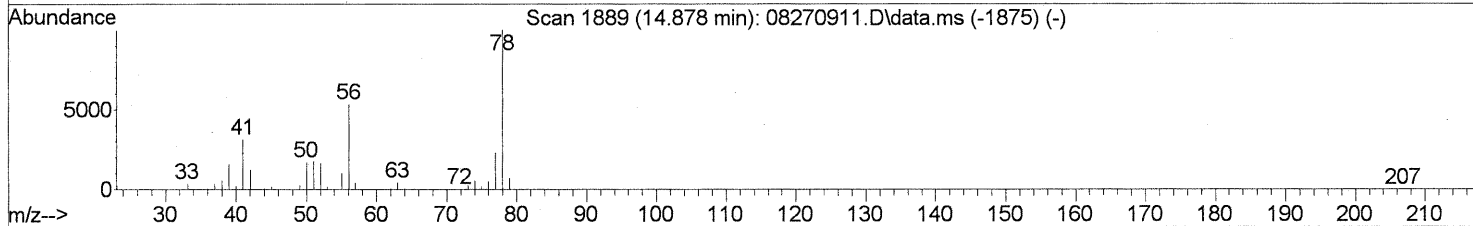
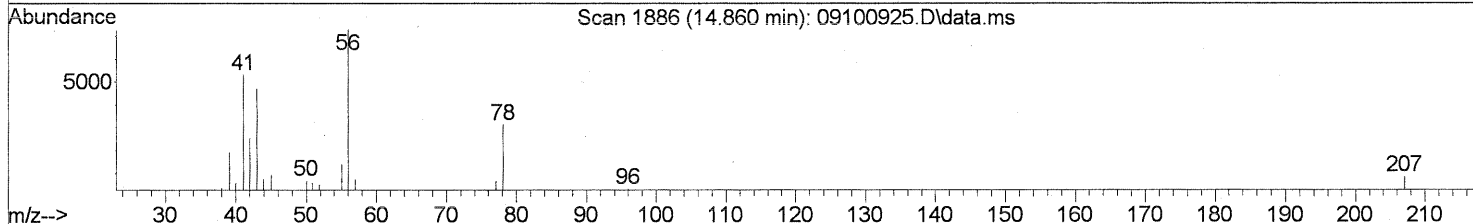
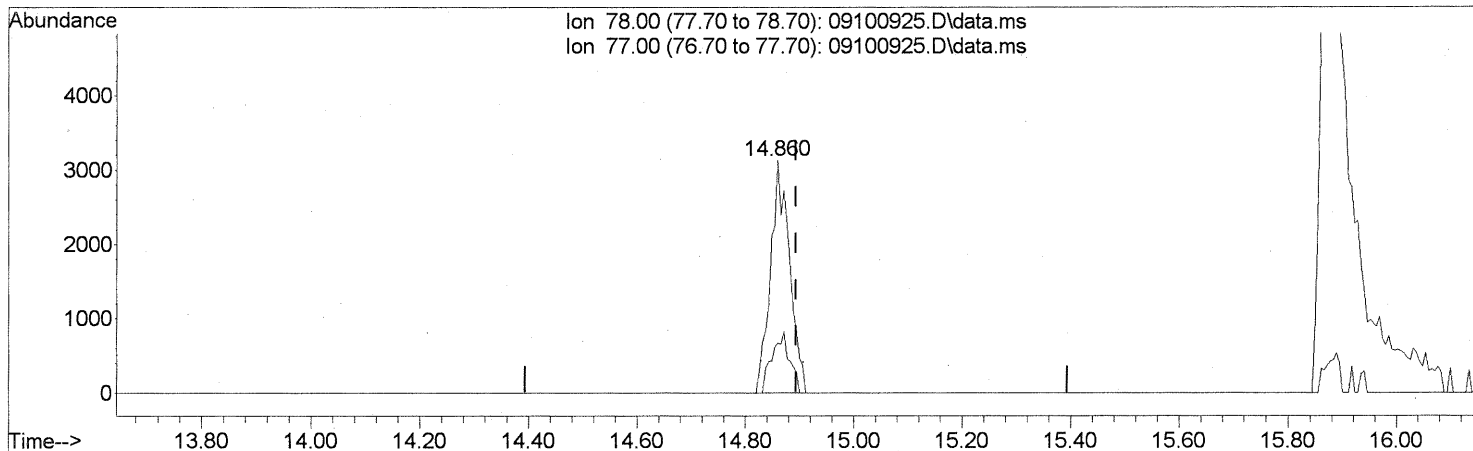
Ion	Exp%	Act%
61.00	100	100
95.90	67.90	4.68#
0.00	0.00	0.00
0.00	0.00	0.00

FP
LM 9/20/09
Com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 20:49:55 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

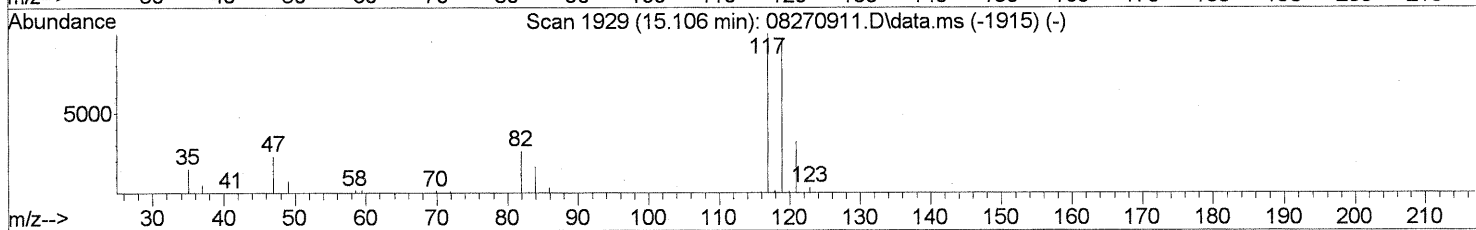
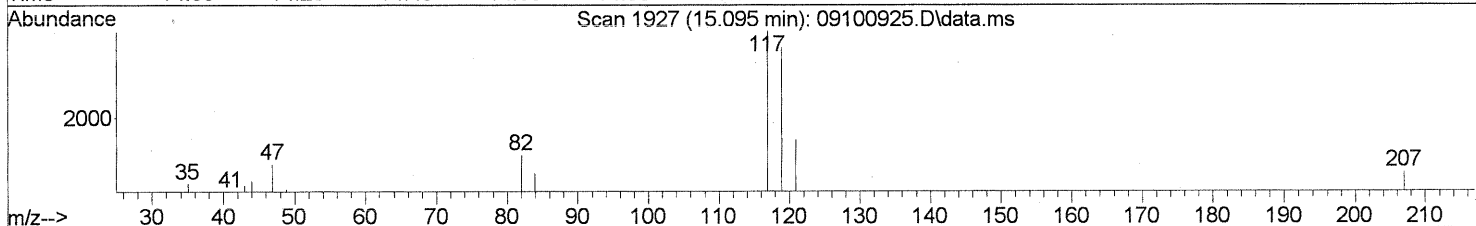
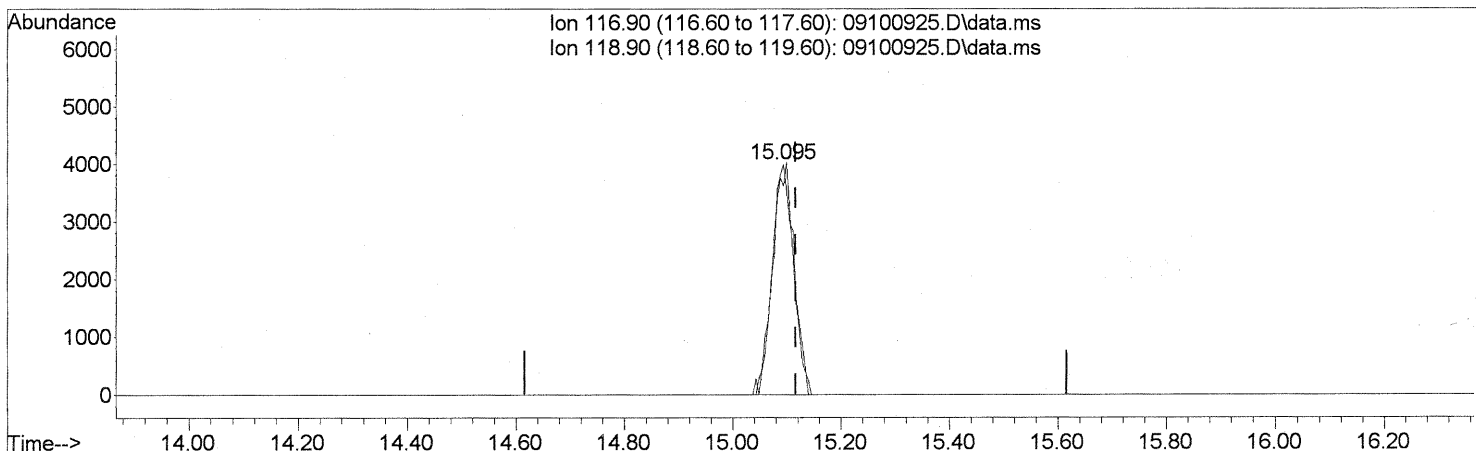
(41) Benzene (T)
 14.860min (-0.034) 0.13ng
 response 7637

Ion	Exp%	Act%
78.00	100	100
77.00	23.20	24.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 20:49:55 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

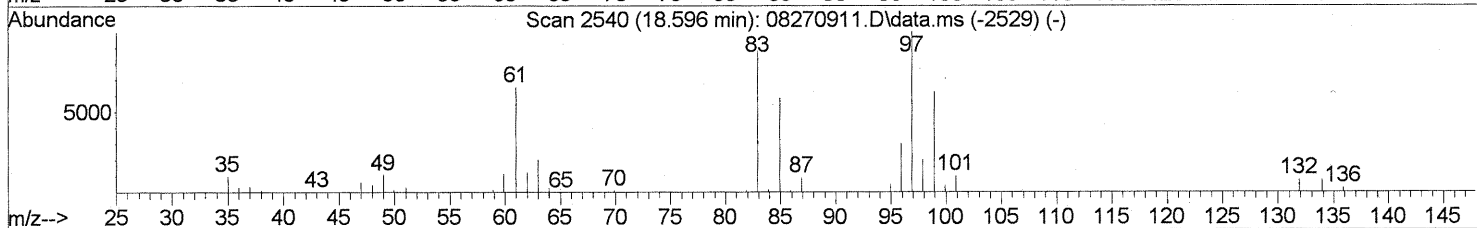
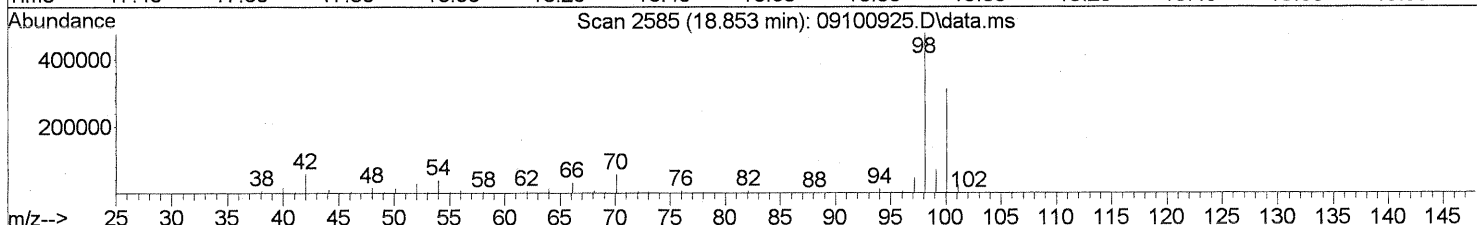
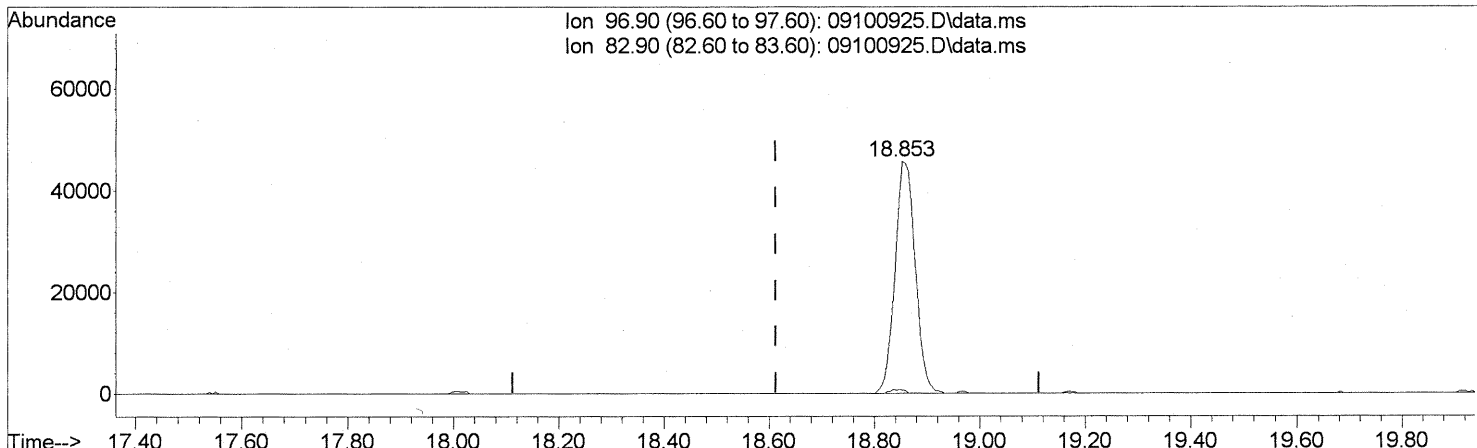
(42) Carbon Tetrachloride (T)
 15.095min (-0.023) 0.55ng
 response 11121

Ion	Exp%	Act%
116.90	100	100
118.90	96.20	97.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 20:49:55 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

(55) 1,1,2-Trichloroethane (T)
 18.853min (+0.240) 8.76ng
 response 121959

Ion	Exp%	Act%
96.90	100	100
82.90	87.70	1.05#
0.00	0.00	0.00
0.00	0.00	0.00

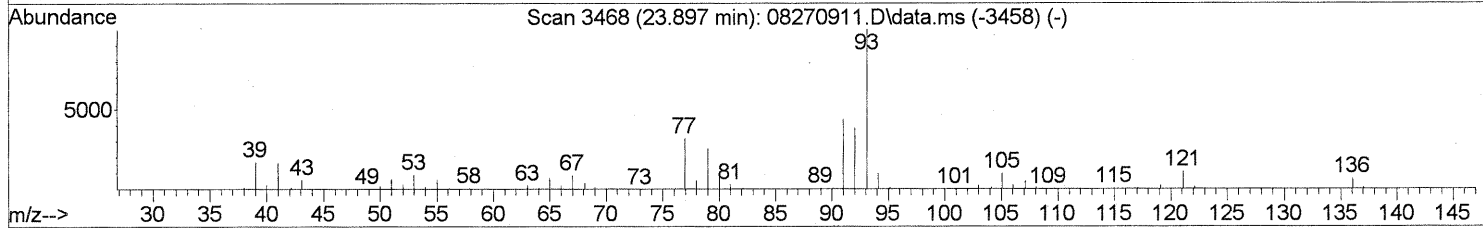
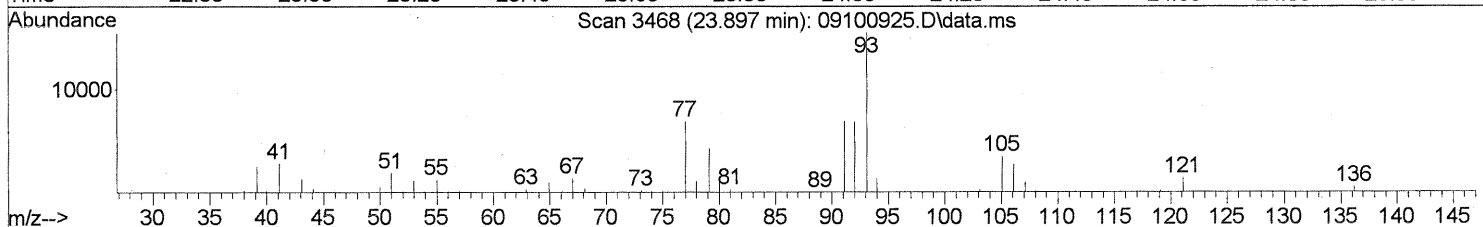
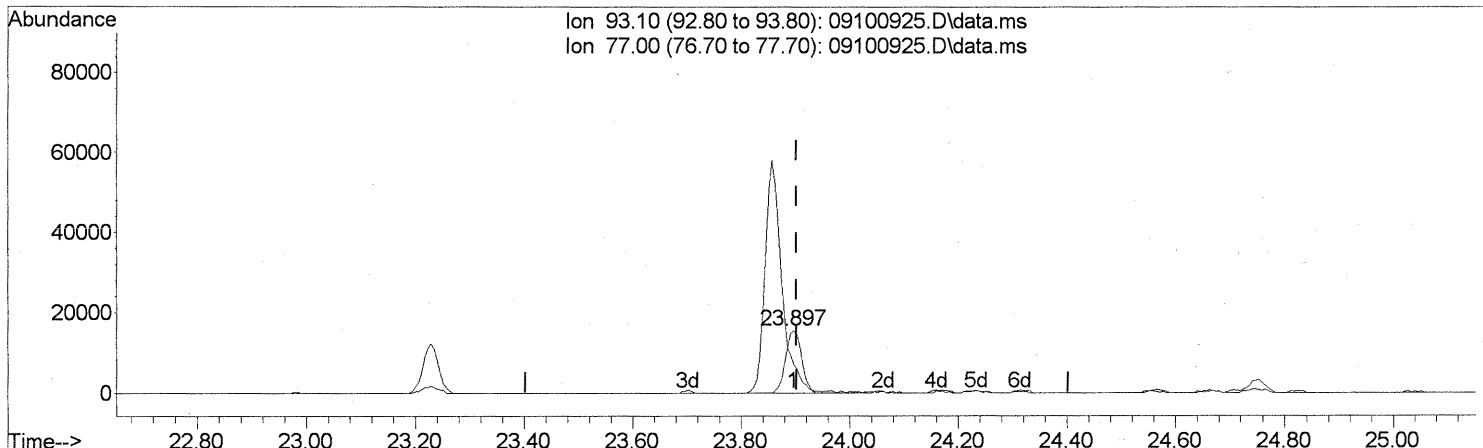
FP
im 9/20/09

Sum 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100925.D
 Acq On : 11 Sep 2009 3:12
 Operator : LM/CC
 Sample : P0903141-006 (1000ml)
 Misc : EH&E 105019
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 20:49:55 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09100925.D\data.ms

(75) alpha-Pinene (T)		
23.897min (-0.006) 0.84ng		
response 31572		
Ion	Exp%	Act%
93.10	100	100
77.00	33.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

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

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

CAS Project ID: P0903141
CAS Sample ID: P090910-MB

Date Collected: NA
Date Received: NA
Date Analyzed: 9/10/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
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: Re Date: 9/21/09 **271**

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

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

CAS Project ID: P0903141
CAS Sample ID: P090910-MB

Date Collected: NA
Date Received: NA
Date Analyzed: 9/10/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

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

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

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

Verified By: Re

Date: 9/21/09

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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: P0903141
 CAS Sample ID: P090910-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 9/10/09
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	

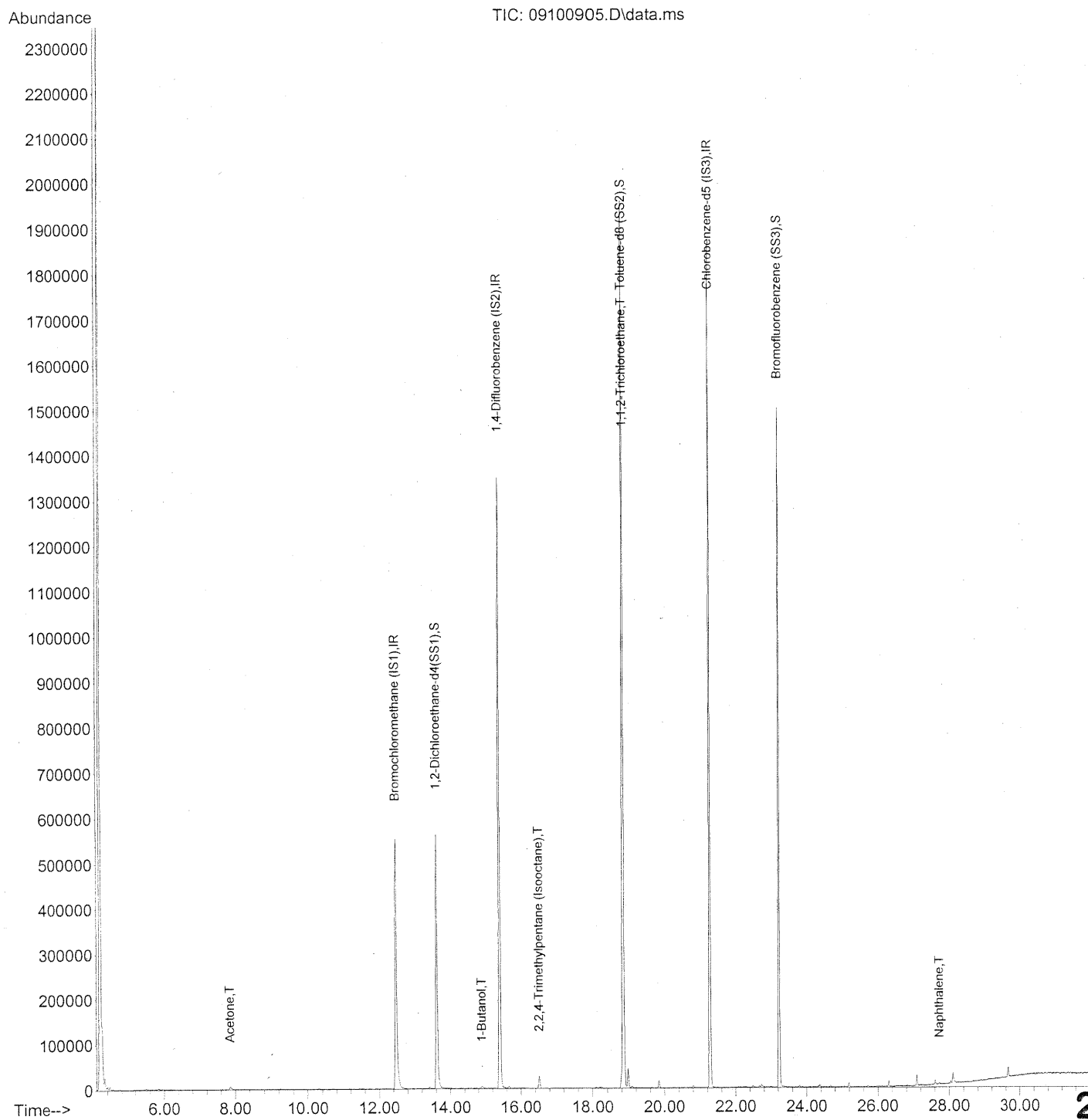
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: Re Date: 9/20/09 **273**

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100905.D
 Acq On : 10 Sep 2009 12:23
 Operator : LM/CC
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:44:20 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100905.D
 Acq On : 10 Sep 2009 12:23
 Operator : LM/CC
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:44:20 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

CC 9-11-09
~~9-10-09~~
LM 9/11/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	312666	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1563349	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	766446	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.62	65	602468	24.315	ng	-0.03
Spiked Amount	25.000			Recovery =		97.28% ✓
57) Toluene-d8 (SS2)	18.85	98	1707023	24.921	ng	-0.01
Spiked Amount	25.000			Recovery =		99.68% ✓
73) Bromofluorobenzene (SS3)	23.23	174	497756	25.249	ng	0.00
Spiked Amount	25.000			Recovery =		101.00% ✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	401	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	7.14	45	139	N.D.		
11) Acetonitrile	0.00	41	0	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	7.85	58	5234	0.361	ng	93
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.35	45	185	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	9.25	84	222	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.66	76	264	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_09\10\
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 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)	13.42	72	599	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	4627	0.238	ng	# 27
41) Benzene	14.87	78	820	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.42	84	1110	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.51	57	34174	0.409	ng	100
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	145984	8.525	ng	# 7
58) Toluene	18.99	91	638	N.D.		
59) 2-Hexanone	19.38	43	117	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.84	43	2264	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	21.92	91	404	N.D.		
67) m- & p-Xylenes	22.04	91	2343	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.51	104	122	N.D.		
70) o-Xylene	22.65	91	423	N.D.		
71) n-Nonane	22.91	43	103	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.42	105	211	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.04	91	211	N.D.		
77) 3-Ethyltoluene	24.16	105	495	N.D.		
78) 4-Ethyltoluene	24.23	105	391	N.D.		
79) 1,3,5-Trimethylbenzene	24.31	105	271	N.D.		

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100905.D
 Acq On : 10 Sep 2009 12:23
 Operator : LM/CC
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 13:44:20 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.50	118	94	N.D.		
81) 2-Ethyltoluene	24.57	105	100	N.D.		
82) 1,2,4-Trimethylbenzene	24.82	105	356	N.D.		
83) n-Decane	24.96	57	97	N.D.		
84) Benzyl Chloride	25.01	91	1241	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	319	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	319	N.D.		
87) sec-Butylbenzene	24.82	105	356	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	25.53	146	196	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.35	57	119	N.D.		
94) 1,2,4-Trichlorobenzene	27.58	180	948	N.D.		
95) Naphthalene	27.73	128	5772	0.061 ng		92
96) n-Dodecane	27.61	57	2401	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	131	N.D.		
99) tert-Butylbenzene	24.73	119	111	N.D.		
100) n-Butylbenzene	25.86	91	105	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

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

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

CAS Project ID: P0903141
CAS Sample ID: P090914-MB

Date Collected: NA
Date Received: NA
Date Analyzed: 9/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
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: Re Date: 9/21/09 **278**

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

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

CAS Project ID: P0903141
CAS Sample ID: P090914-MB

Date Collected: NA
Date Received: NA
Date Analyzed: 9/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
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: Ree

Date: 9/21/09

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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: P0903141
 CAS Sample ID: P090914-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 9/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

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

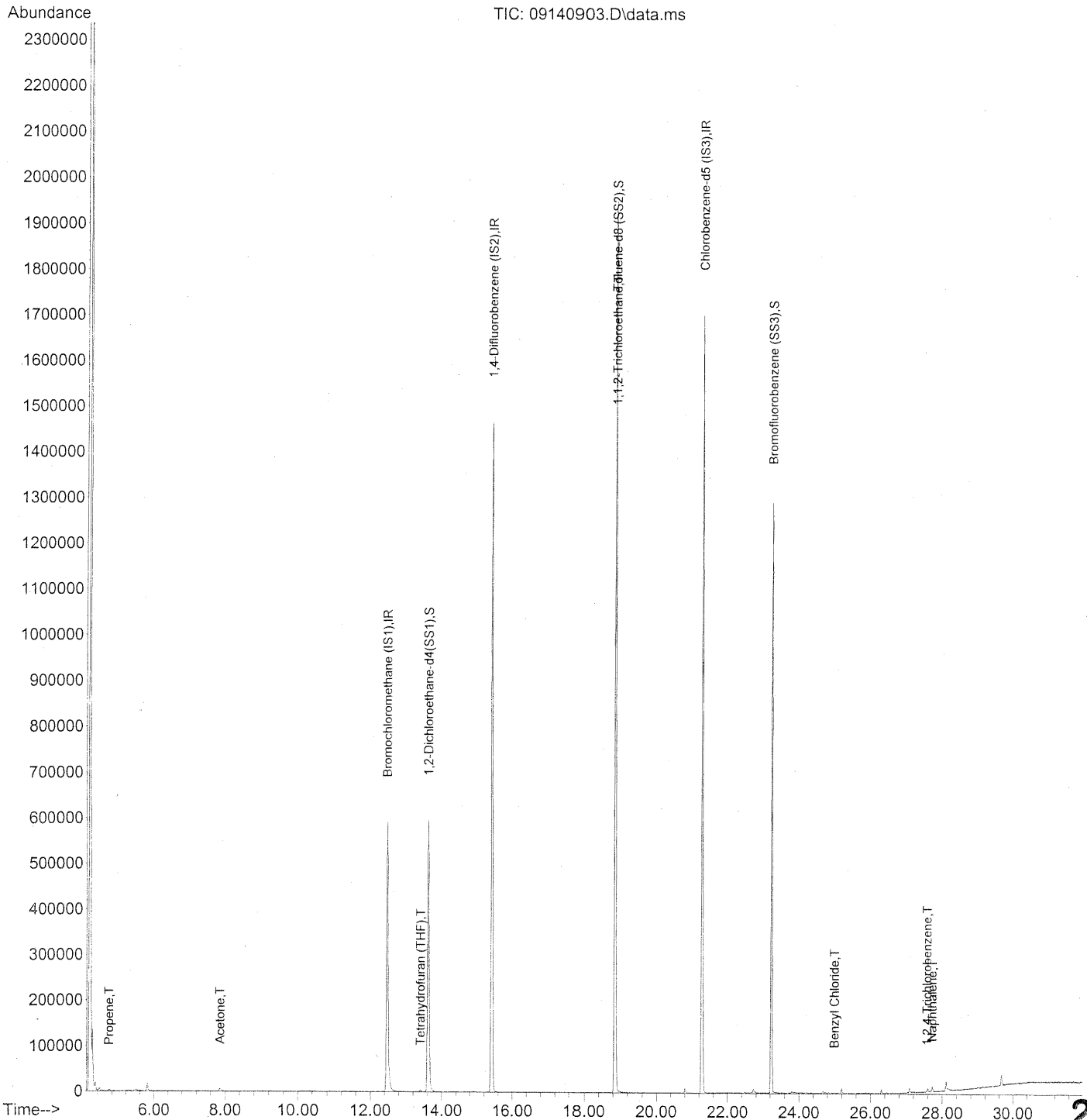
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: Re Date: 9/21/09 **280**

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140903.D
 Acq On : 14 Sep 2009 12:05 pm
 Operator : LM/CC
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-09140901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 12:36:09 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140903.D
 Acq On : 14 Sep 2009 12:05 pm
 Operator : LM/CC
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-09140901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 12:36:09 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/15/09
CC 9-15-09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.47	130	330086	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1683640	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	714846	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	646739	24.725	ng	-0.03
Spiked Amount	25.000		Recovery	=	98.88%	✓
57) Toluene-d8 (SS2)	18.85	98	1699568	26.603	ng	-0.01
Spiked Amount	25.000		Recovery	=	106.40%	✓
73) Bromofluorobenzene (SS3)	23.23	174	429158	23.341	ng	0.00
Spiked Amount	25.000		Recovery	=	93.36%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.72	42	1328	0.056	ng	98
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	7.14	45	87	N.D.		
11) Acetonitrile	7.43	41	93	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	7.85	58	4351	0.284	ng	87
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.35	45	125	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	9.23	84	196	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.65	76	183	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_09\14\
 Data File : 09140903.D
 Acq On : 14 Sep 2009 12:05 pm
 Operator : LM/CC
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-09140901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 12:36:09 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 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)	13.40	72	1049	0.078	ng #	51
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.64	62	90	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	180	N.D.		
41) Benzene	14.88	78	941	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	1277	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.53	57	87	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	147120	7.977 ng #		7
58) Toluene	18.98	91	2065	N.D.		
59) 2-Hexanone	19.37	43	225	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	241	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	21.82	91	666	N.D.		
67) m- & p-Xylenes	22.05	91	708	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.65	91	1382	N.D.		
71) n-Nonane	22.90	43	195	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.39	105	1743	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.05	91	600	N.D.		
77) 3-Ethyltoluene	24.16	105	1634	N.D.		
78) 4-Ethyltoluene	24.23	105	1475	N.D.		
79) 1,3,5-Trimethylbenzene	24.32	105	1196	N.D.		

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140903.D
 Acq On : 14 Sep 2009 12:05 pm
 Operator : LM/CC
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-09140901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 12:36:09 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 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	24.58	105	872	N.D.		
82) 1,2,4-Trimethylbenzene	24.82	105	1577	N.D.		
83) n-Decane	24.93	57	438	N.D.		
84) Benzyl Chloride	24.99	91	3179	0.050	ng	74
85) 1,3-Dichlorobenzene	25.03	146	676	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	590	N.D.		
87) sec-Butylbenzene	25.16	105	195	N.D.		
88) 4-Isopropyltoluene (p-...	25.37	119	181	N.D.		
89) 1,2,3-Trimethylbenzene	25.36	105	719	N.D.		
90) 1,2-Dichlorobenzene	25.53	146	98	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	26.45	57	1398	N.D.		
94) 1,2,4-Trichlorobenzene	27.58	180	1348	0.059	ng	# 86
95) Naphthalene	27.72	128	13818	0.156	ng	95
96) n-Dodecane	27.68	57	1072	N.D.		
97) Hexachlorobutadiene	28.14	225	544	N.D.		
98) Cyclohexanone	22.31	55	691	N.D.		
99) tert-Butylbenzene	24.82	119	507	N.D.		
100) n-Butylbenzene	25.86	91	806	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

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

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: P0903141
 CAS Sample ID: P090921-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/21/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
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: RG

Date: 9/21/09

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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

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: P0903141
CAS Sample ID: P090921-MB

Date Collected: NA
Date Received: NA
Date Analyzed: 9/21/09
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: *for* Date: *9/21/09* **286**

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: P0903141
 CAS Sample ID: P090921-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: 9/21/09
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	

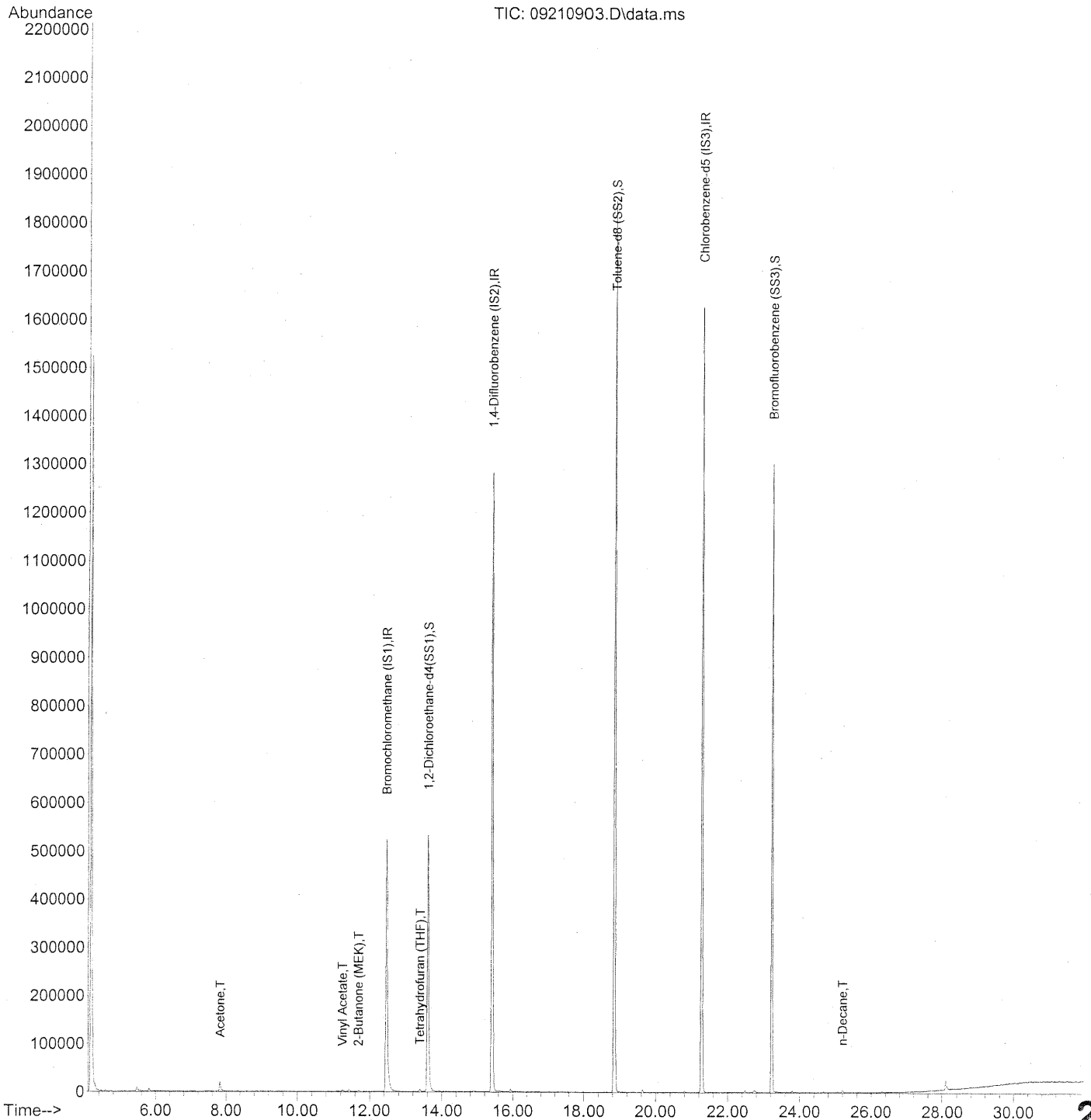
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: Re Date: 9/21/09 **287**

Data Path : J:\MS13\DATA\2009_09\21\
Data File : 09210903.D
Acq On : 21 Sep 2009 6:07 am
Operator : WA/CC
Sample : TO-15 Method Blank (1000mL)
Misc : S20-09140901
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 21 06:45:46 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration.



Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210903.D
 Acq On : 21 Sep 2009 6:07 am
 Operator : WA/CC
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-09140901
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 21 06:45:46 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

09/21/09
cc
9-21-09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.46	130	297416	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.41	114	1503542	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	680410	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.61	65	568902	24.138	ng	-0.03
Spiked Amount	25.000		Recovery	=	96.56%	✓
57) Toluene-d8 (SS2)	18.84	98	1600108	26.314	ng	-0.02
Spiked Amount	25.000		Recovery	=	105.24%	✓
73) Bromofluorobenzene (SS3)	23.23	174	430297	24.587	ng	-0.01
Spiked Amount	25.000		Recovery	=	98.36%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.72	42	859		N.D.	
3) Dichlorodifluoromethan...	4.86	85	87		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	7.18	45	93		N.D.	
11) Acetonitrile	7.41	41	185		N.D.	
12) Acrolein	7.58	56	182		N.D.	
13) Acetone	7.82	58	14027	1.017	ng	# 71
14) Trichlorofluoromethane	0.00	101	0		N.D.	
15) 2-Propanol (Isopropanol)	8.37	45	195		N.D.	
16) Acrylonitrile	0.00	53	0		N.D.	
17) 1,1-Dichloroethene	0.00	96	0		N.D.	
18) 2-Methyl-2-Propanol (t...	0.00	59	0		N.D.	
19) Methylene Chloride	9.23	84	356		N.D.	
20) 3-Chloro-1-propene (Al...	0.00	41	0		N.D.	
21) Trichlorotrifluoroethane	0.00	151	0		N.D.	
22) Carbon Disulfide	9.67	76	1254		N.D.	
23) trans-1,2-Dichloroethene	0.00	61	0		N.D.	
24) 1,1-Dichloroethane	0.00	63	0		N.D.	
25) Methyl tert-Butyl Ether	0.00	73	0		N.D.	
26) Vinyl Acetate	11.24	86	398	0.115	ng	# 1
27) 2-Butanone (MEK)	11.68	72	574	0.052	ng	# 52
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_09\21\
 Data File : 09210903.D
 Acq On : 21-Sep-2009 6:07 am
 Operator : WA/CC
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-09140901
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 21 06:45:46 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 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)	13.39	72	1478	0.122	ng	92
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.61	62	92	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	813	N.D.		
41) Benzene	14.88	78	218	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.40	84	1003	N.D.		
44) tert-Amyl Methyl Ether	16.09	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...	16.51	57	86	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	1375	N.D.		
59) 2-Hexanone	19.36	43	848	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	22.02	91	114	N.D.		
67) m- & p-Xylenes	22.05	91	91	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.66	91	336	N.D.		
71) n-Nonane	22.92	43	88	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.41	105	89	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.22	105	188	N.D.		
78) 4-Ethyltoluene	24.22	105	188	N.D.		
79) 1,3,5-Trimethylbenzene	24.22	105	188	N.D.		

Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210903.D
 Acq On : 21 Sep 2009 6:07 am
 Operator : WA/CC
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-09140901
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 21 06:45:46 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

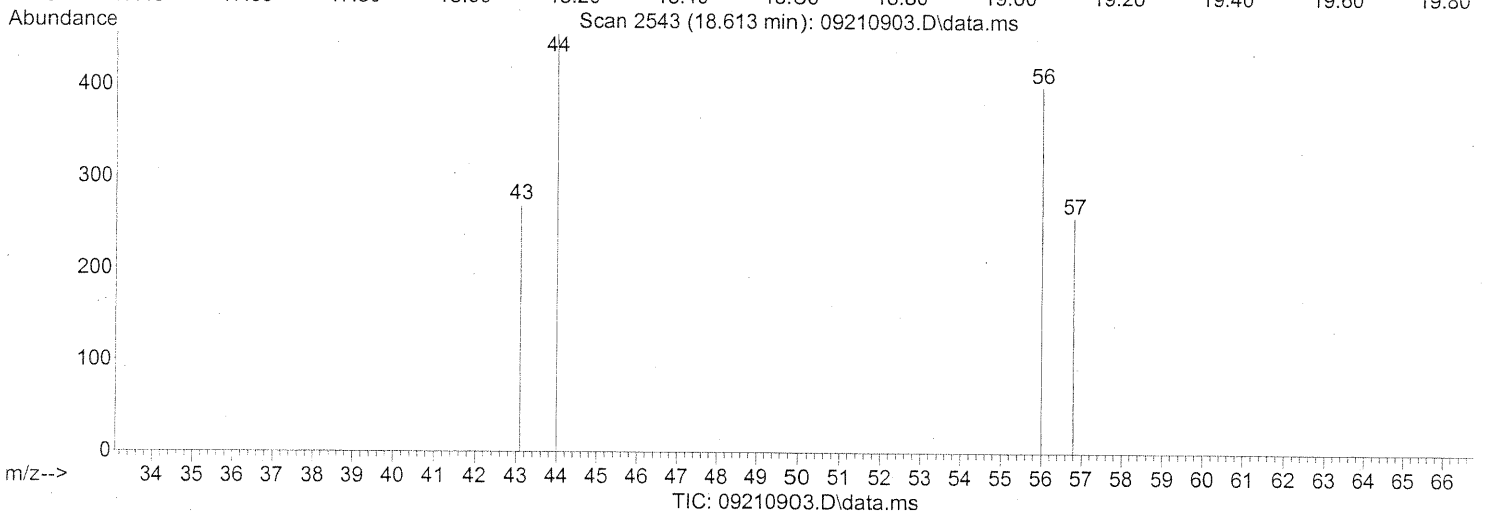
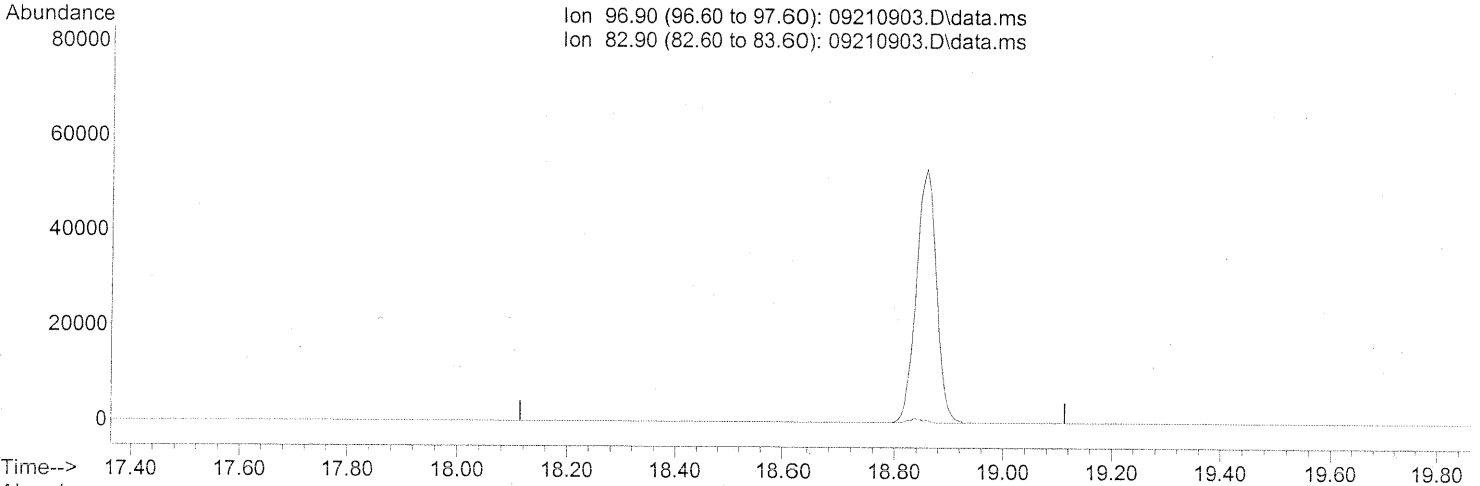
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.55	105	177	N.D.		
82) 1,2,4-Trimethylbenzene	24.83	105	110	N.D.		
83) n-Decane	25.20	57	3587	0.099	ng	# 42
84) Benzyl Chloride	25.02	91	91	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	177	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	177	N.D.		
87) sec-Butylbenzene	24.83	105	110	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	25.10	146	177	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	180	N.D.		
94) 1,2,4-Trichlorobenzene	27.58	180	205	N.D.		
95) Naphthalene	27.74	128	2114	N.D.		
96) n-Dodecane	27.70	57	109	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	634	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	0.00	91	0	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\21\
Data File : 09210903.D
Acq On : 21 Sep 2009 6:07 am
Operator : WA/CC
Sample : TO-15 Method Blank (1000mL)
Misc : S20-09140901
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 21 06:45:46 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



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

18.613min 0.00ng d

response 0

Ion	Exp%	Act%
96.90	100	0.00
82.90	87.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F.P.
CC
9-21-09
No previous
WA 9/21/09

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: P0903141

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

Date(s) Collected: 9/3/09
Date(s) Received: 9/4/09
Date(s) Analyzed: 9/10 - 9/21/09

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	P090910-MB	97	70-130	100	70-130	101	70-130	
Method Blank	P090914-MB	99	70-130	106	70-130	93	70-130	
Method Blank	P090921-MB	97	70-130	105	70-130	98	70-130	
Lab Control Sample	P090910-LCS	98	70-130	99	70-130	104	70-130	
Lab Control Sample	P090914-LCS	97	70-130	107	70-130	94	70-130	
Lab Control Sample	P090921-LCS	94	70-130	104	70-130	101	70-130	
105014	P0903141-001	98	70-130	96	70-130	103	70-130	
105015	P0903141-002	98	70-130	96	70-130	105	70-130	
105016	P0903141-003	97	70-130	97	70-130	105	70-130	
105017	P0903141-004	96	70-130	97	70-130	106	70-130	
105018	P0903141-005	96	70-130	98	70-130	106	70-130	
105019	P0903141-006	98	70-130	97	70-130	105	70-130	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

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

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

CAS Project ID: P0903141
 CAS Sample ID: P090910-LCS

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/10/09
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount	Result	% Recovery	CAS Acceptance	Data Qualifier
		ng	ng		Limits	
115-07-1	Propene	26.3	25.5	97	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	24.6	95	61-118	
74-87-3	Chloromethane	25.0	24.5	98	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	25.7	99	65-122	
75-01-4	Vinyl Chloride	25.3	25.0	99	57-132	
106-99-0	1,3-Butadiene	26.8	26.8	100	66-161	
74-83-9	Bromomethane	25.8	29.4	114	67-130	
75-00-3	Chloroethane	25.5	26.9	105	68-123	
64-17-5	Ethanol	130	127	98	50-155	
75-05-8	Acetonitrile	26.0	24.2	93	48-148	
107-02-8	Acrolein	26.3	27.5	105	67-138	
67-64-1	Acetone	132	123	93	59-121	
75-69-4	Trichlorofluoromethane	26.3	25.6	97	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	43.8	91	54-126	
107-13-1	Acrylonitrile	25.8	28.3	110	65-134	
75-35-4	1,1-Dichloroethene	27.5	28.3	103	70-123	
75-09-2	Methylene Chloride	26.8	25.8	96	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	27.1	100	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	29.3	107	69-126	
75-15-0	Carbon Disulfide	26.0	26.4	102	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	27.5	108	69-125	
75-34-3	1,1-Dichloroethane	26.5	27.1	102	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	27.6	105	72-132	
108-05-4	Vinyl Acetate	126	139	110	73-158	
78-93-3	2-Butanone (MEK)	26.8	29.4	110	68-126	

Verified By: Per Date: 9/10/09 **295**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

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

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

CAS Project ID: P0903141
 CAS Sample ID: P090910-LCS

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/10/09
 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	28.3	105	69-124	
141-78-6	Ethyl Acetate	52.0	57.2	110	65-126	
110-54-3	n-Hexane	26.0	26.5	102	63-125	
67-66-3	Chloroform	27.5	26.9	98	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	26.0	98	65-124	
107-06-2	1,2-Dichloroethane	26.3	26.5	101	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	26.4	102	69-127	
71-43-2	Benzene	25.8	25.5	99	68-122	
56-23-5	Carbon Tetrachloride	26.3	27.7	105	68-137	
110-82-7	Cyclohexane	51.8	54.0	104	68-121	
78-87-5	1,2-Dichloropropane	26.0	27.0	104	69-128	
75-27-4	Bromodichloromethane	26.3	27.2	103	71-131	
79-01-6	Trichloroethene	25.8	27.8	108	72-122	
123-91-1	1,4-Dioxane	26.0	27.8	107	73-127	
80-62-6	Methyl Methacrylate	52.8	60.0	114	80-133	
142-82-5	n-Heptane	25.8	26.6	103	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	26.1	107	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	28.1	105	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	28.8	107	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	26.6	102	76-125	
108-88-3	Toluene	26.8	26.6	99	74-119	
591-78-6	2-Hexanone	27.0	26.0	96	64-118	
124-48-1	Dibromochloromethane	28.3	29.1	103	79-129	
106-93-4	1,2-Dibromoethane	26.3	26.8	102	79-125	
123-86-4	n-Butyl Acetate	27.5	25.5	93	70-136	

Verified By: Res Date: 9/10/09 **296**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

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

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

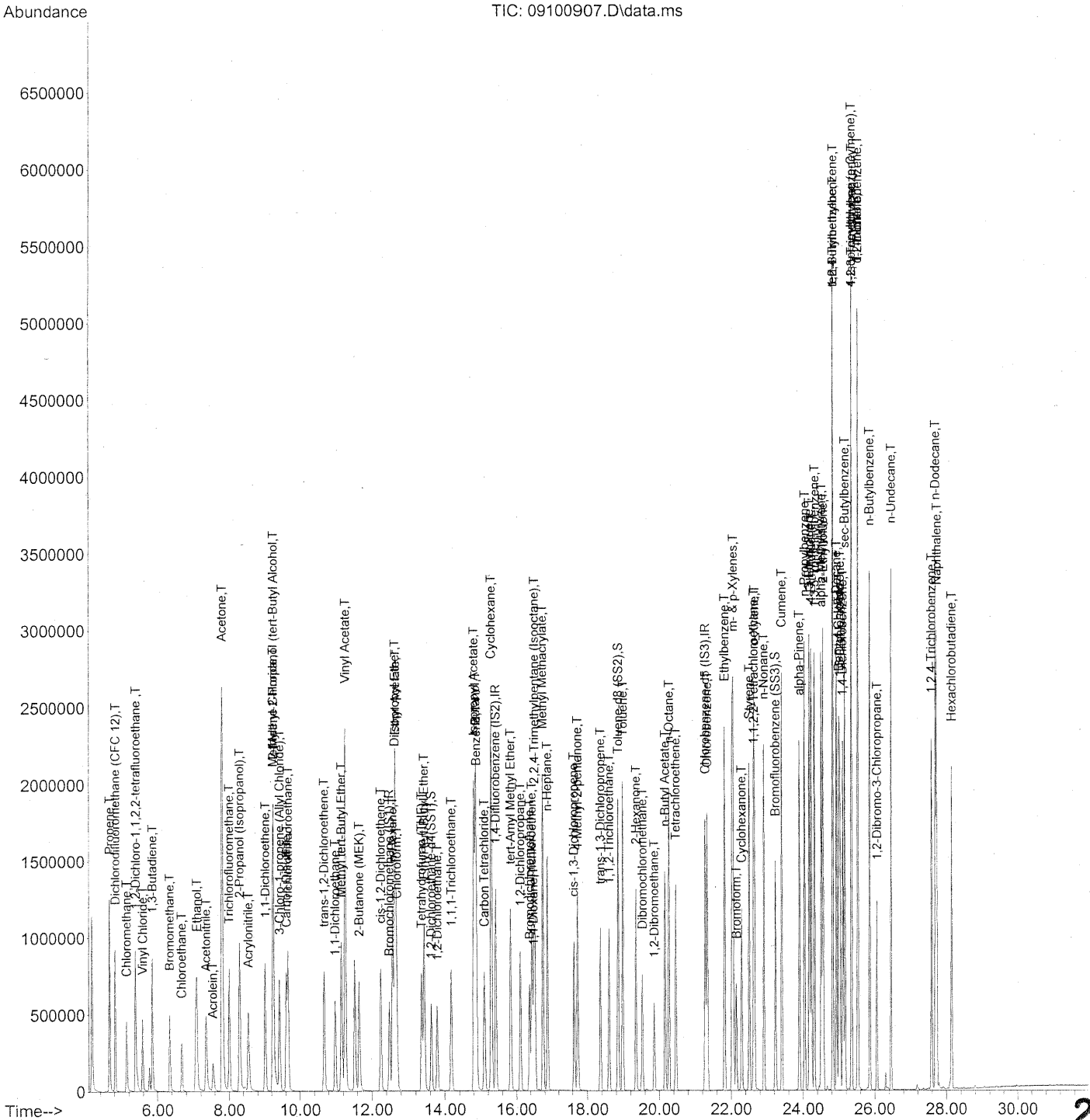
CAS Project ID: P0903141
CAS Sample ID: P090910-LCS

Date Collected: NA
Date Received: NA
Date Analyzed: 9/10/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	25.9	98	75-126	
127-18-4	Tetrachloroethene	25.3	26.3	104	72-125	
108-90-7	Chlorobenzene	26.5	27.0	102	74-121	
100-41-4	Ethylbenzene	26.3	26.5	101	76-120	
179601-23-1	m,p-Xylenes	51.5	52.1	101	75-120	
75-25-2	Bromoform	26.5	26.8	101	76-143	
100-42-5	Styrene	26.3	27.9	106	78-124	
95-47-6	o-Xylene	26.0	26.7	103	76-121	
111-84-2	n-Nonane	25.8	25.4	98	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	26.9	100	77-126	
98-82-8	Cumene	25.3	26.0	103	78-125	
80-56-8	alpha-Pinene	24.8	25.4	102	78-125	
103-65-1	n-Propylbenzene	25.3	25.8	102	80-127	
622-96-8	4-Ethyltoluene	26.3	26.8	102	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	27.9	105	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	27.5	108	76-123	
100-44-7	Benzyl Chloride	26.8	26.7	100	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	27.5	106	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	27.1	103	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	27.5	107	75-124	
5989-27-5	d-Limonene	26.5	29.0	109	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	30.9	114	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	30.6	112	70-139	
91-20-3	Naphthalene	25.0	27.9	112	69-141	
87-68-3	Hexachlorobutadiene	26.8	28.7	107	68-138	

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100907.D
 Acq On : 10 Sep 2009 13:58
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 14:30:32 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100907.D
 Acq On : 10 Sep 2009 13:58
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 14:30:32 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LC
9-11-09

179/10/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	300151	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	1513439	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	747279	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	583730	24.541	ng	-0.02
Spiked Amount	25.000			Recovery	=	98.16%
57) Toluene-d8 (SS2)	18.85	98	1646539	24.655	ng	-0.01
Spiked Amount	25.000			Recovery	=	98.60%
73) Bromofluorobenzene (SS3)	23.23	174	498582	25.940	ng	0.00
Spiked Amount	25.000			Recovery	=	103.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	554370	25.534	ng	99
3) Dichlorodifluoromethan...	4.82	85	935472	24.610	ng	99
4) Chloromethane	5.14	50	626938	24.536	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	403027	25.672	ng	100
6) Vinyl Chloride	5.58	62	599453	25.010	ng	99
7) 1,3-Butadiene	5.86	54	478508	26.771	ng	98
8) Bromomethane	6.34	94	435044	29.365	ng	97
9) Chloroethane	6.68	64	352296	26.850	ng	98
10) Ethanol	7.09	45	1715077	127.393	ng	100
11) Acetonitrile	7.35	41	904169	24.179	ng	99
12) Acrolein	7.54	56	282342	27.466	ng	99
13) Acetone	7.80	58	1708632	122.721	ng	96
14) Trichlorofluoromethane	8.00	101	858545	25.626	ng	98
15) 2-Propanol (Isopropanol)	8.30	45	2028435	43.824	ng	100
16) Acrylonitrile	8.54	53	650961	28.323	ng	99
17) 1,1-Dichloroethene	9.02	96	459228	28.257	ng	90
18) 2-Methyl-2-Propanol (t...	9.25	59	2327424	50.215	ng	99
19) Methylene Chloride	9.24	84	455353	25.786	ng	95
20) 3-Chloro-1-propene (Al...	9.42	41	745185	27.114	ng	96
21) Trichlorotrifluoroethane	9.67	151	388870	29.311	ng	94
22) Carbon Disulfide	9.62	76	1655917	26.356	ng	98
23) trans-1,2-Dichloroethene	10.68	61	694535	27.494	ng	93
24) 1,1-Dichloroethane	10.98	63	855477	27.076	ng	100
25) Methyl tert-Butyl Ether	11.16	73	1377264	27.597	ng	98
26) Vinyl Acetate	11.27	86	485925	139.269	ng	# 92
27) 2-Butanone (MEK)	11.65	72	330135	29.355	ng	# 91
28) cis-1,2-Dichloroethene	12.24	61	679226	28.269	ng	92
29) Diisopropyl Ether	12.63	87	468748	28.545	ng	# 42
30) Ethyl Acetate	12.66	61	345781	57.216	ng	99
31) n-Hexane	12.58	57	797952	26.505	ng	99

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Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100907.D
 Acq On : 10 Sep 2009 13:58
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 14:30:32 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.69	83	797338	26.868	ng	97
34) Tetrahydrofuran (THF)	13.36	72	317643	26.044	ng	93
35) Ethyl tert-Butyl Ether	13.43	87	535185	26.565	ng	91
36) 1,2-Dichloroethane	13.79	62	660471	26.527	ng	98
38) 1,1,1-Trichloroethane	14.18	97	737285	26.353	ng	98
39) Isopropyl Acetate	14.81	61	618871	53.759	ng	# 76
40) 1-Butanol	14.85	56	976166	51.820	ng	# 1
41) Benzene	14.88	78	1813767	25.494	ng	100
42) Carbon Tetrachloride	15.10	117	662598	27.742	ng	99
43) Cyclohexane	15.29	84	1417150	54.046	ng	95
44) tert-Amyl Methyl Ether	15.84	73	1312454	24.906	ng	97
45) 1,2-Dichloropropane	16.11	63	474710	27.003	ng	98
46) Bromodichloromethane	16.37	83	637549	27.193	ng	99
47) Trichloroethene	16.44	130	482101	27.776	ng	99
48) 1,4-Dioxane	16.48	88	380195	27.805	ng	93
49) 2,2,4-Trimethylpentane...	16.52	57	2093536	25.857	ng	97
50) Methyl Methacrylate	16.75	100	395682	60.004	ng	90
51) n-Heptane	16.88	71	490073	26.576	ng	96
52) cis-1,3-Dichloropropene	17.64	75	753600	26.093	ng	100
53) 4-Methyl-2-pentanone	17.75	58	455905	28.058	ng	99
54) trans-1,3-Dichloropropene	18.36	75	789154	28.847	ng	100
55) 1,1,2-Trichloroethane	18.60	97	440621	26.578	ng	100
58) Toluene	18.98	91	1913657	26.605	ng	99
59) 2-Hexanone	19.35	43	1144752	26.040	ng	96
60) Dibromochloromethane	19.53	129	526397	29.110	ng	100
61) 1,2-Dibromoethane	19.86	107	505775	26.774	ng	100
62) n-Butyl Acetate	20.16	43	1286476	25.509	ng	98
63) n-Octane	20.28	57	429209	25.929	ng	96
64) Tetrachloroethene	20.46	166	478253	26.259	ng	99
65) Chlorobenzene	21.34	112	1243653	26.953	ng	100
66) Ethylbenzene	21.82	91	2182808	26.532	ng	99
67) m- & p-Xylenes	22.06	91	3413017	52.110	ng	98
68) Bromoform	22.14	173	419438	26.789	ng	100
69) Styrene	22.51	104	1347302	27.938	ng	98
70) o-Xylene	22.65	91	1758309	26.727	ng	97
71) n-Nonane	22.91	43	1003050	25.372	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	810546	26.874	ng	98
74) Cumene	23.41	105	2167270	25.992	ng	98
75) alpha-Pinene	23.90	93	1100378	25.442	ng	97
76) n-Propylbenzene	24.05	91	2728402	25.759	ng	99
77) 3-Ethyltoluene	24.17	105	2192956	27.492	ng	99
78) 4-Ethyltoluene	24.23	105	2107706	26.774	ng	97
79) 1,3,5-Trimethylbenzene	24.32	105	1825754	27.863	ng	9

300

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100907.D
 Acq On : 10 Sep 2009 13:58
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 14:30:32 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1012037	29.409	ng	96
81) 2-Ethyltoluene	24.56	105	2165646	26.458	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1837711	27.474	ng	98
83) n-Decane	24.93	57	1068434	26.755	ng	97
84) Benzyl Chloride	25.00	91	1765188	26.655	ng	98
85) 1,3-Dichlorobenzene	25.02	146	995112	27.527	ng	100
86) 1,4-Dichlorobenzene	25.10	146	1019910	27.090	ng	99
87) sec-Butylbenzene	25.16	105	2458762	26.912	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	2188685	26.578	ng	100
89) 1,2,3-Trimethylbenzene	25.35	105	1862935	26.572	ng	100
90) 1,2-Dichlorobenzene	25.53	146	926306	27.455	ng	99
91) d-Limonene	25.53	68	773254	28.959	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	364219	30.854	ng	93
93) n-Undecane	26.46	57	1159841	27.977	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	727935	30.633	ng	99
95) Naphthalene	27.73	128	2580970	27.920	ng	100
96) n-Dodecane	27.69	57	1207251	25.547	ng	98
97) Hexachlorobutadiene	28.14	225	410115	28.705	ng	99
98) Cyclohexanone	22.29	55	641692	23.138	ng	96
99) tert-Butylbenzene	24.83	119	1746467	26.962	ng	99
100) n-Butylbenzene	25.86	91	2074291	27.847	ng	99

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

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

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

CAS Project ID: P0903141
 CAS Sample ID: P090914-LCS

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/14/09
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount	Result	% Recovery	CAS Acceptance	Data Qualifier
		ng	ng		Limits	
115-07-1	Propene	26.3	21.8	83	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	20.0	77	61-118	
74-87-3	Chloromethane	25.0	21.8	87	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	21.2	82	65-122	
75-01-4	Vinyl Chloride	25.3	21.2	84	57-132	
106-99-0	1,3-Butadiene	26.8	22.9	85	66-161	
74-83-9	Bromomethane	25.8	25.6	99	67-130	
75-00-3	Chloroethane	25.5	22.4	88	68-123	
64-17-5	Ethanol	130	110	85	50-155	
75-05-8	Acetonitrile	26.0	20.6	79	48-148	
107-02-8	Acrolein	26.3	23.8	90	67-138	
67-64-1	Acetone	132	105	80	59-121	
75-69-4	Trichlorofluoromethane	26.3	21.3	81	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	38.9	81	54-126	
107-13-1	Acrylonitrile	25.8	24.1	93	65-134	
75-35-4	1,1-Dichloroethene	27.5	23.8	87	70-123	
75-09-2	Methylene Chloride	26.8	21.6	81	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	23.2	86	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	24.3	88	69-126	
75-15-0	Carbon Disulfide	26.0	22.2	85	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	23.2	91	69-125	
75-34-3	1,1-Dichloroethane	26.5	23.0	87	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	23.1	88	72-132	
108-05-4	Vinyl Acetate	126	119	94	73-158	
78-93-3	2-Butanone (MEK)	26.8	24.9	93	68-126	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

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

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

CAS Project ID: P0903141
 CAS Sample ID: P090914-LCS

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/14/09
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	23.9	89	69-124	
141-78-6	Ethyl Acetate	52.0	47.7	92	65-126	
110-54-3	n-Hexane	26.0	22.1	85	63-125	
67-66-3	Chloroform	27.5	22.8	83	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	22.1	83	65-124	
107-06-2	1,2-Dichloroethane	26.3	22.1	84	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	22.5	87	69-127	
71-43-2	Benzene	25.8	21.8	84	68-122	
56-23-5	Carbon Tetrachloride	26.3	23.6	90	68-137	
110-82-7	Cyclohexane	51.8	45.7	88	68-121	
78-87-5	1,2-Dichloropropane	26.0	23.0	88	69-128	
75-27-4	Bromodichloromethane	26.3	23.1	88	71-131	
79-01-6	Trichloroethene	25.8	23.3	90	72-122	
123-91-1	1,4-Dioxane	26.0	23.8	92	73-127	
80-62-6	Methyl Methacrylate	52.8	51.0	97	80-133	
142-82-5	n-Heptane	25.8	23.0	89	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	22.1	90	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	24.0	90	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	24.6	91	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	22.6	87	76-125	
108-88-3	Toluene	26.8	25.6	96	74-119	
591-78-6	2-Hexanone	27.0	25.0	93	64-118	
124-48-1	Dibromochloromethane	28.3	27.7	98	79-129	
106-93-4	1,2-Dibromoethane	26.3	25.7	98	79-125	
123-86-4	n-Butyl Acetate	27.5	24.1	88	70-136	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

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

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

CAS Project ID: P0903141
CAS Sample ID: P090914-LCS

Date Collected: NA
Date Received: NA
Date Analyzed: 9/14/09
Volume(s) Analyzed: NA Liter(s)

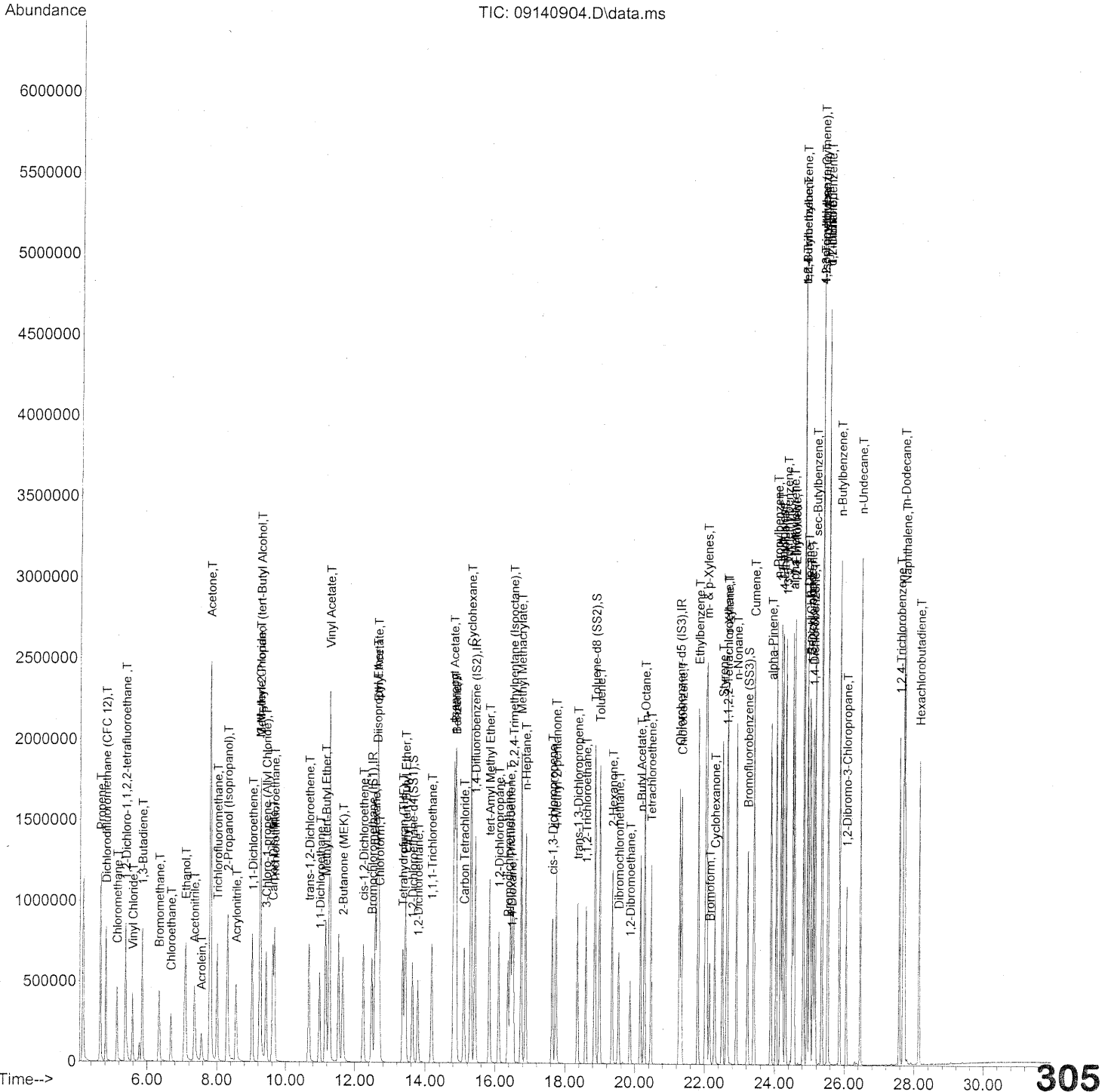
CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	26.3	24.9	95	75-126	
127-18-4	Tetrachloroethene	25.3	24.9	98	72-125	
108-90-7	Chlorobenzene	26.5	25.7	97	74-121	
100-41-4	Ethylbenzene	26.3	25.4	97	76-120	
179601-23-1	m,p-Xylenes	51.5	49.9	97	75-120	
75-25-2	Bromoform	26.5	25.3	95	76-143	
100-42-5	Styrene	26.3	26.7	102	78-124	
95-47-6	o-Xylene	26.0	25.6	98	76-121	
111-84-2	n-Nonane	25.8	24.4	95	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	25.7	95	77-126	
98-82-8	Cumene	25.3	24.9	98	78-125	
80-56-8	alpha-Pinene	24.8	24.2	98	78-125	
103-65-1	n-Propylbenzene	25.3	24.6	97	80-127	
622-96-8	4-Ethyltoluene	26.3	25.6	97	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	26.6	100	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	26.1	102	76-123	
100-44-7	Benzyl Chloride	26.8	25.5	95	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	26.4	102	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	25.6	97	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	26.0	101	75-124	
5989-27-5	d-Limonene	26.5	27.4	103	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	28.5	106	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	28.4	104	70-139	
91-20-3	Naphthalene	25.0	26.3	105	69-141	
87-68-3	Hexachlorobutadiene	26.8	26.2	98	68-138	

Verified By: Res Date: 9/21/09 **304**

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140904.D
 Acq On : 14 Sep 2009 1:03 pm
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09140901/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 13:44:47 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140904.D
 Acq On : 14 Sep 2009 1:03 pm
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09140901/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

09/15/09
CC
9-15-09

Quant Time: Sep 14 13:44:47 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	331813	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1652744	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	724359	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	638951	24.300	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.20%	✓
57) Toluene-d8 (SS2)	18.85	98	1728019	26.694	ng	-0.01
Spiked Amount	25.000		Recovery	=	106.76%	✓
73) Bromofluorobenzene (SS3)	23.23	174	435870	23.395	ng	0.00
Spiked Amount	25.000		Recovery	=	93.56%	✓

Target Compounds

						Qvalue
2) Propene	4.66	42	522255	21.759	ng	100
3) Dichlorodifluoromethan...	4.83	85	839430	19.976	ng	99
4) Chloromethane	5.14	50	616518	21.826	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	367207	21.159	ng	99
6) Vinyl Chloride	5.59	62	562162	21.216	ng	99
7) 1,3-Butadiene	5.86	54	451637	22.856	ng	99
8) Bromomethane	6.35	94	419116	25.590	ng	98
9) Chloroethane	6.69	64	324357	22.362	ng	99
10) Ethanol	7.10	45	1642168	110.338	ng	99
11) Acetonitrile	7.35	41	851823	20.606	ng	99
12) Acrolein	7.55	56	270321	23.788	ng	97
13) Acetone	7.81	58	1622375	105.406	ng	97
14) Trichlorofluoromethane	8.01	101	789791	21.324	ng	98
15) 2-Propanol (Isopropanol)	8.30	45	1988821	38.868	ng	98
16) Acrylonitrile	8.55	53	612174	24.094	ng	99
17) 1,1-Dichloroethene	9.03	96	427241	23.780	ng	91
18) 2-Methyl-2-Propanol (t...	9.25	59	2220668	43.340	ng	99
19) Methylene Chloride	9.24	84	421229	21.577	ng	95
20) 3-Chloro-1-propene (Al...	9.43	41	705449	23.219	ng	97
21) Trichlorotrifluoroethane	9.67	151	356946	24.338	ng	96
22) Carbon Disulfide	9.62	76	1540514	22.180	ng	98
23) trans-1,2-Dichloroethene	10.68	61	646678	23.157	ng	93
24) 1,1-Dichloroethane	10.99	63	801721	22.953	ng	100
25) Methyl tert-Butyl Ether	11.16	73	1272542	23.065	ng	98
26) Vinyl Acetate	11.27	86	459283	119.073	ng	97
27) 2-Butanone (MEK)	11.66	72	309155	24.866	ng	94
28) cis-1,2-Dichloroethene	12.24	61	635559	23.928	ng	92
29) Diisopropyl Ether	12.63	87	439431	24.206	ng	# 17
30) Ethyl Acetate	12.66	61	318814	47.720	ng	98
31) n-Hexane	12.58	57	735783	22.108	ng	98

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Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140904.D
 Acq On : 14 Sep 2009 1:03 pm
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09140901/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 13:44:47 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	746451	22.753	ng	98
34) Tetrahydrofuran (THF)	13.36	72	298349	22.128	ng	93
35) Ethyl tert-Butyl Ether	13.44	87	505123	22.680	ng	92
36) 1,2-Dichloroethane	13.79	62	608689	22.114	ng	99
38) 1,1,1-Trichloroethane	14.18	97	686522	22.470	ng	98
39) Isopropyl Acetate	14.81	61	574340	45.685	ng	# 74
40) 1-Butanol	14.85	56	941432	45.763	ng	# 1
41) Benzene	14.88	78	1697576	21.849	ng	100
42) Carbon Tetrachloride	15.11	117	614351	23.554	ng	100
43) Cyclohexane	15.30	84	1308985	45.713	ng	95
44) tert-Amyl Methyl Ether	15.84	73	1266247	22.004	ng	98
45) 1,2-Dichloropropane	16.11	63	441945	23.021	ng	98
46) Bromodichloromethane	16.37	83	592166	23.129	ng	99
47) Trichloroethene	16.44	130	441099	23.271	ng	100
48) 1,4-Dioxane	16.48	88	355034	23.777	ng	92
49) 2,2,4-Trimethylpentane...	16.52	57	1957886	22.143	ng	98
50) Methyl Methacrylate	16.76	100	367378	51.016	ng	91
51) n-Heptane	16.88	71	463888	23.036	ng	96
52) cis-1,3-Dichloropropene	17.65	75	697621	22.119	ng	100
53) 4-Methyl-2-pentanone	17.74	58	426436	24.032	ng	99
54) trans-1,3-Dichloropropene	18.36	75	736274	24.645	ng	100
55) 1,1,2-Trichloroethane	18.60	97	409105	22.597	ng	99
58) Toluene	18.98	91	1785596	25.610	ng	99
59) 2-Hexanone	19.35	43	1064831	24.989	ng	97
60) Dibromochloromethane	19.53	129	485518	27.698	ng	100
61) 1,2-Dibromoethane	19.86	107	471460	25.747	ng	99
62) n-Butyl Acetate	20.16	43	1178347	24.104	ng	99
63) n-Octane	20.28	57	399603	24.904	ng	97
64) Tetrachloroethene	20.46	166	438809	24.855	ng	99
65) Chlorobenzene	21.34	112	1149110	25.692	ng	99
66) Ethylbenzene	21.82	91	2022126	25.357	ng	100
67) m- & p-Xylenes	22.06	91	3165786	49.865	ng	99
68) Bromoform	22.15	173	383234	25.251	ng	100
69) Styrene	22.50	104	1248318	26.704	ng	99
70) o-Xylene	22.65	91	1632943	25.607	ng	98
71) n-Nonane	22.91	43	934588	24.388	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	752150	25.726	ng	98
74) Cumene	23.41	105	2009882	24.867	ng	98
75) alpha-Pinene	23.90	93	1013615	24.177	ng	97
76) n-Propylbenzene	24.05	91	2521526	24.559	ng	99
77) 3-Ethyltoluene	24.17	105	2020480	26.131	ng	99
78) 4-Ethyltoluene	24.23	105	1956694	25.642	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	1689123	26.593	ng	98

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140904.D
 Acq On : 14 Sep 2009 1:03 pm
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09140901/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 14 13:44:47 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	927824	27.815	ng	99
81) 2-Ethyltoluene	24.56	105	2000834	25.218	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1690337	26.071	ng	99
83) n-Decane	24.93	57	985016	25.446	ng	97
84) Benzyl Chloride	25.00	91	1639207	25.536	ng	98
85) 1,3-Dichlorobenzene	25.02	146	924243	26.375	ng	99
86) 1,4-Dichlorobenzene	25.10	146	935145	25.625	ng	100
87) sec-Butylbenzene	25.16	105	2271482	25.649	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	2004636	25.113	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	1726464	25.405	ng	100
90) 1,2-Dichlorobenzene	25.53	146	850022	25.991	ng	98
91) d-Limonene	25.53	68	709697	27.420	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	325929	28.484	ng	94
93) n-Undecane	26.46	57	1069718	26.619	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	654176	28.400	ng	99
95) Naphthalene	27.73	128	2356011	26.293	ng	100
96) n-Dodecane	27.69	57	1085807	23.704	ng	98
97) Hexachlorobutadiene	28.15	225	363439	26.243	ng	99
98) Cyclohexanone	22.29	55	588977	21.909	ng	96
99) tert-Butylbenzene	24.83	119	1608430	25.616	ng	100
100) n-Butylbenzene	25.86	91	1908981	26.439	ng	99

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Lab Control Sample
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: P0903141
 CAS Sample ID: P090921-LCS

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/21/09
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
115-07-1	Propene	26.3	19.1	73	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	20.2	78	61-118	
74-87-3	Chloromethane	25.0	23.1	92	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	22.1	85	65-122	
75-01-4	Vinyl Chloride	25.3	21.6	85	57-132	
106-99-0	1,3-Butadiene	26.8	23.0	86	66-161	
74-83-9	Bromomethane	25.8	25.7	100	67-130	
75-00-3	Chloroethane	25.5	22.6	89	68-123	
64-17-5	Ethanol	130	110	85	50-155	
75-05-8	Acetonitrile	26.0	20.8	80	48-148	
107-02-8	Acrolein	26.3	24.2	92	67-138	
67-64-1	Acetone	132	106	80	59-121	
75-69-4	Trichlorofluoromethane	26.3	22.2	84	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	40.5	84	54-126	
107-13-1	Acrylonitrile	25.8	24.3	94	65-134	
75-35-4	1,1-Dichloroethene	27.5	24.7	90	70-123	
75-09-2	Methylene Chloride	26.8	22.1	82	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	23.0	85	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	24.8	90	69-126	
75-15-0	Carbon Disulfide	26.0	22.9	88	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	23.7	93	69-125	
75-34-3	1,1-Dichloroethane	26.5	23.6	89	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	23.8	90	72-132	
108-05-4	Vinyl Acetate	126	139	110	73-158	
78-93-3	2-Butanone (MEK)	26.8	25.2	94	68-126	

Verified By: Re Date: 9/21/09 **309**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

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

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

CAS Project ID: P0903141
 CAS Sample ID: P090921-LCS

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/21/09
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount	Result	% Recovery	CAS Acceptance	Data Qualifier
		ng	ng		Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	24.2	90	69-124	
141-78-6	Ethyl Acetate	52.0	48.9	94	65-126	
110-54-3	n-Hexane	26.0	21.9	84	63-125	
67-66-3	Chloroform	27.5	23.4	85	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	22.5	85	65-124	
107-06-2	1,2-Dichloroethane	26.3	22.6	86	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	23.3	90	69-127	
71-43-2	Benzene	25.8	22.5	87	68-122	
56-23-5	Carbon Tetrachloride	26.3	24.6	94	68-137	
110-82-7	Cyclohexane	51.8	47.0	91	68-121	
78-87-5	1,2-Dichloropropane	26.0	23.5	90	69-128	
75-27-4	Bromodichloromethane	26.3	24.2	92	71-131	
79-01-6	Trichloroethene	25.8	24.4	95	72-122	
123-91-1	1,4-Dioxane	26.0	25.2	97	73-127	
80-62-6	Methyl Methacrylate	52.8	52.7	100	80-133	
142-82-5	n-Heptane	25.8	23.3	90	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	23.0	94	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	24.9	93	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	25.7	95	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	23.8	92	76-125	
108-88-3	Toluene	26.8	25.4	95	74-119	
591-78-6	2-Hexanone	27.0	24.7	91	64-118	
124-48-1	Dibromochloromethane	28.3	28.0	99	79-129	
106-93-4	1,2-Dibromoethane	26.3	26.0	99	79-125	
123-86-4	n-Butyl Acetate	27.5	25.4	92	70-136	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0903141

CAS Sample ID: P090921-LCS

Test Code: EPA TO-15

Date Collected: NA

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

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 9/21/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: NA Liter(s)

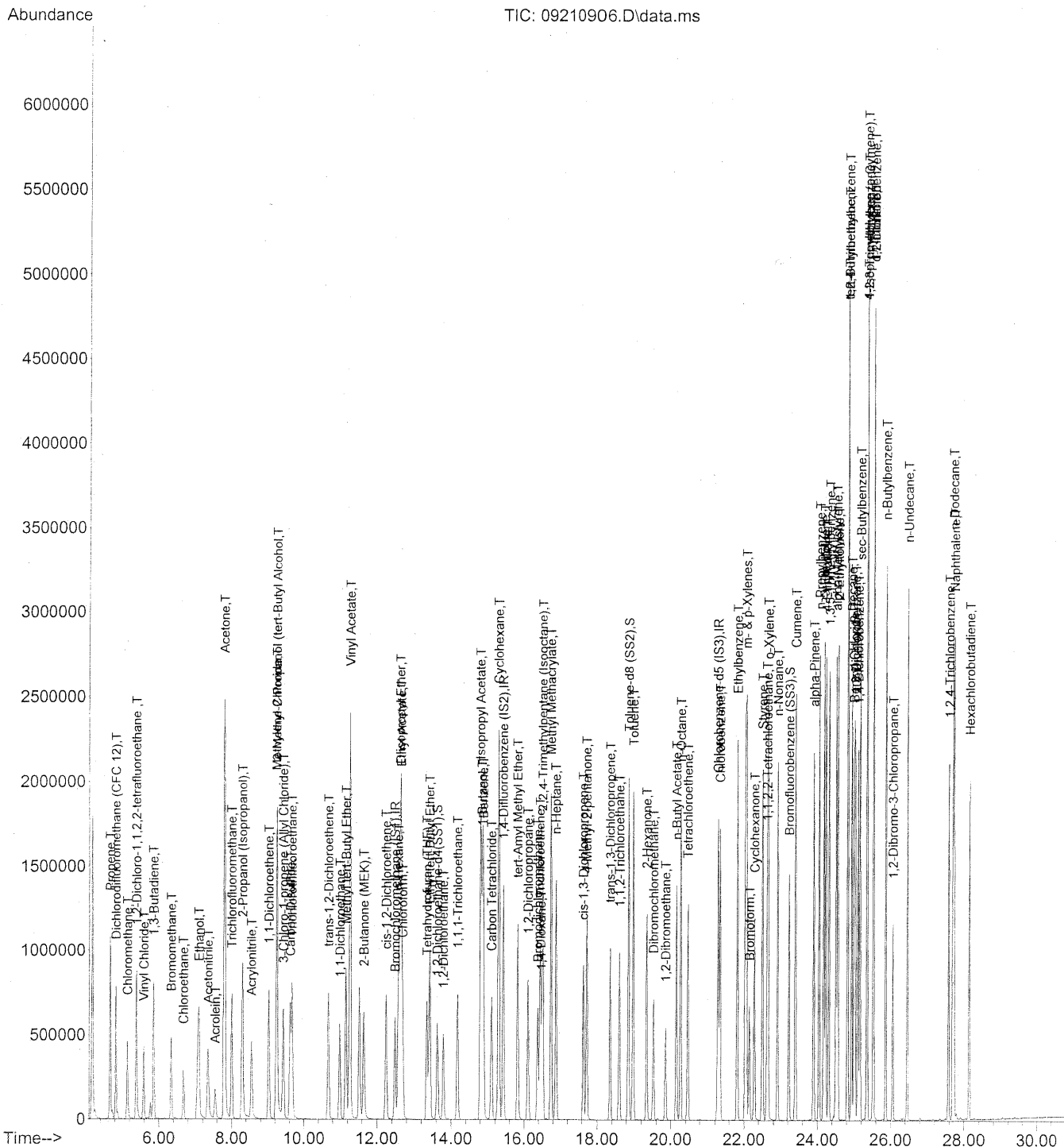
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	24.4	93	75-126	
127-18-4	Tetrachloroethene	25.3	25.4	100	72-125	
108-90-7	Chlorobenzene	26.5	25.8	97	74-121	
100-41-4	Ethylbenzene	26.3	25.4	97	76-120	
179601-23-1	m,p-Xylenes	51.5	49.5	96	75-120	
75-25-2	Bromoform	26.5	26.1	98	76-143	
100-42-5	Styrene	26.3	26.9	102	78-124	
95-47-6	o-Xylene	26.0	25.6	98	76-121	
111-84-2	n-Nonane	25.8	23.4	91	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	25.2	93	77-126	
98-82-8	Cumene	25.3	25.0	99	78-125	
80-56-8	alpha-Pinene	24.8	24.1	97	78-125	
103-65-1	n-Propylbenzene	25.3	24.5	97	80-127	
622-96-8	4-Ethyltoluene	26.3	25.4	97	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	26.7	101	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	25.9	102	76-123	
100-44-7	Benzyl Chloride	26.8	25.9	97	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	26.4	102	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	26.4	100	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	26.4	102	75-124	
5989-27-5	d-Limonene	26.5	27.3	103	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	29.6	110	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	29.2	107	70-139	
91-20-3	Naphthalene	25.0	26.8	107	69-141	
87-68-3	Hexachlorobutadiene	26.8	27.7	103	68-138	

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210906.D
 Acq On : 21 Sep 2009 9:50 am
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09140901/S20-09160904
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 10:19:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210906.D
 Acq On : 21 Sep 2009 9:50 am
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09140901/S20-09160904
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 10:19:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

WA 9/21/09
9-21-09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	326046	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	1619269	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	740941	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	609197	23.578	ng	-0.02
Spiked Amount	25.000		Recovery	=	94.32%	✓
57) Toluene-d8 (SS2)	18.85	98	1725685	26.061	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.24%	✓
73) Bromofluorobenzene (SS3)	23.23	174	480025	25.188	ng	0.00
Spiked Amount	25.000		Recovery	=	100.76%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	450272	19.092	ng	97
3) Dichlorodifluoromethan...	4.82	85	834241	20.204	ng	99
4) Chloromethane	5.14	50	642518	23.148	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.38	135	377167	22.117	ng	99
6) Vinyl Chloride	5.58	62	561908	21.582	ng	100
7) 1,3-Butadiene	5.86	54	445835	22.962	ng	98
8) Bromomethane	6.34	94	412986	25.662	ng	96
9) Chloroethane	6.67	64	322217	22.607	ng	98
10) Ethanol	7.09	45	1602942	109.608	ng	100
11) Acetonitrile	7.35	41	843238	20.759	ng	100
12) Acrolein	7.55	56	270419	24.217	ng	97
13) Acetone	7.79	58	1605304	106.142	ng	96
14) Trichlorofluoromethane	8.00	101	809681	22.248	ng	98
15) 2-Propanol (Isopropanol)	8.30	45	2036775	40.509	ng	99
16) Acrylonitrile	8.54	53	606368	24.287	ng	98
17) 1,1-Dichloroethene	9.02	96	436194	24.708	ng	88
18) 2-Methyl-2-Propanol (t...	9.25	59	2285084	45.386	ng	99
19) Methylene Chloride	9.24	84	423966	22.102	ng	95
20) 3-Chloro-1-propene (Al...	9.43	41	686895	23.008	ng	94
21) Trichlorotrifluoroethane	9.67	151	357275	24.791	ng	94
22) Carbon Disulfide	9.62	76	1562548	22.895	ng	99
23) trans-1,2-Dichloroethene	10.68	61	650035	23.688	ng	92
24) 1,1-Dichloroethane	10.99	63	810408	23.612	ng	100
25) Methyl tert-Butyl Ether	11.15	73	1289190	23.780	ng	98
26) Vinyl Acetate	11.27	86	525490	138.647	ng	# 92
27) 2-Butanone (MEK)	11.64	72	307727	25.189	ng	# 92
28) cis-1,2-Dichloroethene	12.24	61	632534	24.235	ng	90
29) Diisopropyl Ether	12.63	87	444559	24.922	ng	# 44
30) Ethyl Acetate	12.65	61	320920	48.884	ng	97
31) n-Hexane	12.58	57	717731	21.947	ng	99

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Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210906.D
 Acq On : 21 Sep 2009 9:50 am
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09140901/S20-09160904
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 10:19:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	753938	23.388	ng	97
34) Tetrahydrofuran (THF)	13.35	72	298609	22.539	ng	92
35) Ethyl tert-Butyl Ether	13.43	87	519666	23.746	ng	90
36) 1,2-Dichloroethane	13.79	62	611808	22.621	ng	98
38) 1,1,1-Trichloroethane	14.17	97	697598	23.305	ng	98
39) Isopropyl Acetate	14.80	61	574183	46.617	ng	# 73
40) 1-Butanol	14.84	56	933083	46.295	ng	# 1
41) Benzene	14.88	78	1712491	22.497	ng	100
42) Carbon Tetrachloride	15.10	117	629514	24.634	ng	100
43) Cyclohexane	15.29	84	1319160	47.021	ng	94
44) tert-Amyl Methyl Ether	15.83	73	1295753	22.982	ng	97
45) 1,2-Dichloropropane	16.11	63	441960	23.497	ng	98
46) Bromodichloromethane	16.37	83	606381	24.173	ng	99
47) Trichloroethene	16.44	130	453800	24.436	ng	99
48) 1,4-Dioxane	16.47	88	369081	25.228	ng	95
49) 2,2,4-Trimethylpentane...	16.52	57	1950179	22.512	ng	98
50) Methyl Methacrylate	16.75	100	372120	52.743	ng	91
51) n-Heptane	16.88	71	459515	23.290	ng	96
52) cis-1,3-Dichloropropene	17.64	75	710253	22.985	ng	99
53) 4-Methyl-2-pentanone	17.74	58	432118	24.856	ng	98
54) trans-1,3-Dichloropropene	18.35	75	750771	25.650	ng	100
55) 1,1,2-Trichloroethane	18.60	97	422528	23.821	ng	99
58) Toluene	18.98	91	1812456	25.413	ng	99
59) 2-Hexanone	19.34	43	1076397	24.695	ng	97
60) Dibromochloromethane	19.53	129	502135	28.005	ng	100
61) 1,2-Dibromoethane	19.86	107	487479	26.026	ng	100
62) n-Butyl Acetate	20.16	43	1267719	25.352	ng	98
63) n-Octane	20.28	57	401188	24.444	ng	96
64) Tetrachloroethene	20.46	166	458637	25.397	ng	100
65) Chlorobenzene	21.34	112	1182246	25.841	ng	100
66) Ethylbenzene	21.82	91	2068212	25.354	ng	99
67) m- & p-Xylenes	22.06	91	3211369	49.451	ng	98
68) Bromoform	22.14	173	404748	26.072	ng	99
69) Styrene	22.50	104	1283979	26.852	ng	98
70) o-Xylene	22.65	91	1667798	25.568	ng	97
71) n-Nonane	22.91	43	918611	23.435	ng	96
72) 1,1,2,2-Tetrachloroethane	22.62	83	754805	25.240	ng	98
74) Cumene	23.41	105	2063006	24.953	ng	98
75) alpha-Pinene	23.90	93	1034204	24.116	ng	97
76) n-Propylbenzene	24.05	91	2572000	24.490	ng	98
77) 3-Ethyltoluene	24.17	105	2092503	26.457	ng	99
78) 4-Ethyltoluene	24.22	105	1986462	25.449	ng	97
79) 1,3,5-Trimethylbenzene	24.31	105	1731679	26.653	ng	98

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Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210906.D
 Acq On : 21 Sep 2009 9:50 am
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09140901/S20-09160904
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 10:19:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	954917	27.986	ng	96
81) 2-Ethyltoluene	24.56	105	2042520	25.167	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1719917	25.933	ng	98
83) n-Decane	24.93	57	980176	24.755	ng	97
84) Benzyl Chloride	24.99	91	1700036	25.891	ng	98
85) 1,3-Dichlorobenzene	25.02	146	947158	26.424	ng	100
86) 1,4-Dichlorobenzene	25.10	146	984131	26.363	ng	99
87) sec-Butylbenzene	25.16	105	2325099	25.667	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	2067919	25.326	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	1758821	25.302	ng	99
90) 1,2-Dichlorobenzene	25.53	146	882270	26.374	ng	99
91) d-Limonene	25.53	68	722276	27.282	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	346528	29.607	ng	90
93) n-Undecane	26.46	57	1063861	25.881	ng	97
94) 1,2,4-Trichlorobenzene	27.58	180	687933	29.197	ng	99
95) Naphthalene	27.72	128	2460106	26.841	ng	100
96) n-Dodecane	27.69	57	1091282	23.290	ng	97
97) Hexachlorobutadiene	28.14	225	391805	27.658	ng	98
98) Cyclohexanone	22.29	55	651695	23.700	ng	95
99) tert-Butylbenzene	24.83	119	1648742	25.671	ng	100
100) n-Butylbenzene	25.86	91	1972757	26.711	ng	100

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

INITIAL CALIBRATION STANDARDS

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13082709.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08270906.D 0.2 =08270907.D 0.5 =08270908.D 1.0 =08270909.D 5.0 =08270910.D
 25 =08270911.D 50 =08270912.D 100 =08270913.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethan										
2) T Propene	2.228	1.768	1.709	1.601	1.972	1.929	1.517	1.744	1.808	12.55
3) T Dichlorodifluorom	3.863	3.277	3.356	3.114	3.233	3.191	2.448	2.845	3.166	12.86
4) T Chloromethane	2.259	2.110	2.206	2.148	2.122	2.355	1.885	1.942	2.128	7.31
5) T 1,2-Dichloro-1,1,	1.431	1.358	1.272	1.297	1.345	1.383	1.097	1.277	1.308	7.73
6) T Vinyl Chloride	2.051	1.971	1.941	1.934	2.071	2.173	1.758	2.071	1.996	6.27
7) T 1,3-Butadiene	1.682	1.372	1.440	1.385	1.522	1.671	1.310	1.529	1.489	9.22
8) T Bromomethane	1.136	1.099	1.319	1.185	1.374	1.461	1.050	1.247	1.234	11.56
9) T Chloroethane	1.107	1.073	1.099	1.012	1.155	1.210	0.956	1.132	1.093	7.33
10) T Ethanol	1.132	1.170	1.171	1.069	1.162	1.228	0.959	1.079	1.121	7.46
11) T Acetonitrile	3.731	3.312	3.106	2.811	3.118	3.268	2.579	2.992	3.115	11.10
12) T Acrolein			0.782	0.792	0.892	0.983	0.784	0.904	0.856	9.69
13) T Acetone	1.540	1.354	1.207	1.077	1.126	1.152	0.876	0.945	1.160	18.42
14) T Trichlorofluorome	2.816	2.659	2.984	2.708	2.943	3.075	2.401	2.738	2.791	7.67
15) T 2-Propanol (Isopr		4.562	4.691	4.193	3.525	4.031	2.841	3.143	3.855	18.31
16) T Acrylonitrile	1.679	1.661	1.830	1.855	2.096	2.283	1.820	2.090	1.914	11.50
17) T 1,1-Dichloroethen	1.421	1.308	1.395	1.299	1.374	1.477	1.183	1.372	1.354	6.64
18) T 2-Methyl-2-Propan	4.111	3.917	3.922	3.742	4.000	4.357	2.975		3.860	11.26
19) T Methylene Chlorid	1.613	1.543	1.556	1.402	1.474	1.542	1.220	1.418	1.471	8.46
20) T 3-Chloro-1-propen	2.522	2.248	2.221	2.068	2.365	2.545	2.033	2.310	2.289	8.19
21) T Trichlorotrifluor	1.027	1.089	1.228	1.078	1.116	1.231	0.985	1.088	1.105	7.87
22) T Carbon Disulfide	5.517	5.028	5.376	5.032	5.437	5.803	4.554	5.118	5.233	7.31
23) T trans-1,2-Dichlor	1.970	1.770	2.149	2.072	2.273	2.449	1.946	2.204	2.104	10.07
24) T 1,1-Dichloroethan	2.902	2.459	2.655	2.507	2.698	2.900	2.319	2.614	2.632	7.77
25) T Methyl tert-Butyl	4.565	3.987	4.180	3.793	4.176	4.615	3.722	4.216	4.157	7.77
26) T Vinyl Acetate	0.281	0.271	0.307	0.277	0.301	0.350	0.265	0.273	0.291	9.72
27) T 2-Butanone (MEK)	1.034	0.821	0.921	0.891	1.025	1.124	0.885	0.793	0.937	12.17
28) T cis-1,2-Dichloroe	1.967	1.808	2.117	1.898	2.118	2.271	1.796	2.034	2.001	8.27
29) T Diisopropyl Ether	1.277	1.282	1.446	1.333	1.450	1.568	1.225	1.362	1.368	8.30

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(#) Out of Range ### Number of calibration levels exceeded format ###
 R13082709.M Fri Aug 28 11:16:18 2009

MM 8/28/09
 CC 8/28/09

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13082709.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08270906.D 0.2 =08270907.D 0.5 =08270908.D 1.0 =08270909.D 5.0 =08270910.D
 25 =08270911.D 50 =08270912.D 100 =08270913.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
30) T Ethyl Acetate	0.448	0.403	0.525	0.494	0.567	0.608	0.467	0.515	0.503	13.03
31) T n-Hexane	2.821	2.572	2.527	2.400	2.518	2.688	2.123	2.411	2.508	8.31
32) T Chloroform	2.621	2.291	2.596	2.424	2.599	2.746	2.131	2.366	2.472	8.25
33) S 1,2-Dichloroethan	2.001	2.011	1.998	2.007	1.974	2.005	1.950	1.903	1.981	1.91
34) T Tetrahydrofuran (1.244	1.004	0.993	1.078	0.838	0.938	1.016	13.53
35) T Ethyl tert-Butyl	1.586	1.658	1.745	1.622	1.714	1.875	1.503	1.720	1.678	6.72
36) T 1,2-Dichloroethan	2.363	1.999	2.075	1.989	2.111	2.276	1.787	1.991	2.074	8.71
37) IR 1,4-Difluorobenze	-----ISTD-----									
38) T 1,1,1-Trichloroet	0.480	0.446	0.490	0.442	0.477	0.509	0.407	0.446	0.462	7.09
39) T Isopropyl Acetate	0.195	0.173	0.194	0.181	0.203	0.217	0.170	0.188	0.190	8.12
40) T 1-Butanol	0.346	0.331	0.296	0.270	0.311	0.349	0.278	0.309	0.311	9.41
41) T Benzene	1.365	1.233	1.256	1.121	1.199	1.222	0.957	1.049	1.175	10.90
42) T Carbon Tetrachlor	0.393	0.351	0.407	0.375	0.414	0.447	0.361	0.408	0.395	7.94
43) T Cyclohexane	0.460	0.428	0.451	0.413	0.447	0.477	0.376	0.412	0.433	7.42
44) T tert-Amyl Methyl	1.007	0.839	0.936	0.847	0.884	0.919	0.722	0.809	0.870	9.98
45) T 1,2-Dichloropropa	0.281	0.276	0.295	0.284	0.309	0.323	0.260	0.295	0.290	6.85
46) T Bromodichlorometh	0.398	0.337	0.396	0.363	0.412	0.443	0.354	0.396	0.387	8.87
47) T Trichloroethene	0.275	0.288	0.284	0.265	0.297	0.323	0.262	0.299	0.287	6.94
48) T 1,4-Dioxane	0.184	0.214	0.247	0.219	0.248	0.264	0.211	0.221	0.226	11.32
49) T 2,2,4-Trimethylpe	1.457	1.313	1.417	1.291	1.396	1.451	1.138	1.236	1.337	8.46
50) T Methyl Methacryla	0.100	0.092	0.106	0.103	0.120	0.130	0.105	0.116	0.109	11.14
51) T n-Heptane	0.288	0.283	0.326	0.302	0.326	0.340	0.271	0.301	0.305	7.92
52) T cis-1,3-Dichlorop	0.447	0.427	0.497	0.448	0.507	0.549	0.443	0.499	0.477	8.79
53) T 4-Methyl-2-pentan	0.263	0.241	0.264	0.255	0.286	0.311	0.248	0.279	0.268	8.46
54) T trans-1,3-Dichlor	0.410	0.423	0.459	0.422	0.486	0.522	0.419	0.473	0.452	8.83
55) T 1,1,2-Trichloroet	0.291	0.264	0.282	0.250	0.286	0.299	0.243	0.274	0.274	7.27
56) IR Chlorobenzene-d5	-----ISTD-----									
57) S Toluene-d8 (SS2)	2.226	2.230	2.222	2.230	2.212	2.233	2.240	2.281	2.234	0.92

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(#) Out of Range ### Number of calibration levels exceeded format ###
 R13082709.M Fri Aug 28 11:16:18 2009

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13082709.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009
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 25 =08270911.D 50 =08270912.D 100 =08270913.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
58) T Toluene	2.610	2.363	2.446	2.293	2.488	2.606	2.090	2.354	2.406	7.15
59) T 2-Hexanone	1.630	1.345	1.430	1.385	1.501	1.658	1.320	1.497	1.471	8.51
60) T Dibromochlorometh	0.553	0.552	0.627	0.552	0.620	0.700	0.571	0.666	0.605	9.44
61) T 1,2-Dibromoethane	0.592	0.587	0.644	0.603	0.656	0.720	0.582	0.671	0.632	7.80
62) T n-Butyl Acetate	1.687	1.542	1.665	1.576	1.732	1.914	1.554	1.826	1.687	7.90
63) T n-Octane	0.626	0.513	0.579	0.531	0.562	0.598	0.478	0.542	0.554	8.61
64) T Tetrachloroethene	0.592	0.582	0.624	0.569	0.632	0.675	0.553	0.648	0.609	6.89
65) T Chlorobenzene	1.621	1.513	1.607	1.436	1.576	1.689	1.360	1.548	1.544	6.87
66) T Ethylbenzene	2.899	2.579	2.862	2.627	2.891	3.056	2.418	2.686	2.752	7.61
67) T m- & p-Xylenes	2.271	2.106	2.268	2.112	2.295	2.438	1.915	2.123	2.191	7.29
68) T Bromoform	0.492	0.457	0.478	0.478	0.541	0.620	0.515	0.610	0.524	11.78
69) T Styrene	1.632	1.460	1.546	1.485	1.715	1.865	1.499	1.706	1.613	8.77
70) T o-Xylene	2.198	2.015	2.279	2.160	2.341	2.481	1.953	2.181	2.201	7.71
71) T n-Nonane	1.410	1.318	1.387	1.274	1.384	1.428	1.123	1.258	1.323	7.72
72) T 1,1,2,2-Tetrachlo	1.015	0.938	1.067	0.934	1.062	1.136	0.904	1.017	1.009	7.87
73) S Bromofluorobenz	0.637	0.641	0.642	0.642	0.643	0.647	0.642	0.650	0.643	0.59
74) T Cumene	2.874	2.641	2.834	2.706	2.929	3.119	2.483	2.729	2.790	6.96
75) T alpha-Pinene	1.526	1.380	1.459	1.356	1.496	1.609	1.296	1.454	1.447	6.95
76) T n-Propylbenzene	3.766	3.311	3.648	3.441	3.793	3.970	3.101	3.318	3.543	8.37
77) T 3-Ethyltoluene	2.849	2.433	2.664	2.535	2.797	2.980	2.418	2.673	2.669	7.52
78) T 4-Ethyltoluene	2.815	2.470	2.714	2.522	2.799	2.947	2.302	2.499	2.634	8.26
79) T 1,3,5-Trimethylbe	2.236	2.054	2.162	2.148	2.315	2.470	1.966	2.186	2.192	7.05
80) T alpha-Methylstyre	0.955	0.981	1.127	1.071	1.260	1.400	1.133	1.282	1.151	13.37
81) T 2-Ethyltoluene	2.851	2.561	2.758	2.688	2.892	3.058	2.430	2.668	2.738	7.21
82) T 1,2,4-Trimethylbe	2.268	2.059	2.284	2.180	2.409	2.549	1.998	2.154	2.238	8.09
83) T n-Decane	1.368	1.216	1.412	1.358	1.437	1.477	1.154	1.267	1.336	8.47
84) T Benzyl Chloride	2.330	2.000	2.201	2.076	2.360	2.541	2.008	2.208	2.215	8.52
85) T 1,3-Dichlorobenze	1.322	1.095	1.217	1.161	1.231	1.342	1.086	1.220	1.209	7.75
86) T 1,4-Dichlorobenze	1.282	1.153	1.287	1.189	1.295	1.421	1.147	1.303	1.260	7.30
87) T sec-Butylbenzene	3.081	2.880	3.153	3.010	3.269	3.448	2.715	2.896	3.057	7.66

Response Factor Report GCMS13

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 25 =08270911.D 50 =08270912.D 100 =08270913.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
88) T 4-Isopropyltoluen	2.670	2.592	2.879	2.705	3.020	3.160	2.464	2.549	2.755	8.82
89) T 1,2,3-Trimethylbe	2.424	2.299	2.431	2.277	2.495	2.594	2.045	2.198	2.345	7.51
90) T 1,2-Dichlorobenze	1.100	1.053	1.174	1.102	1.220	1.287	1.010	1.085	1.129	8.10
91) T d-Limonene	0.748	0.829	0.885	0.865	0.986	1.066	0.844	0.923	0.893	11.02
92) T 1,2-Dibromo-3-Chl	0.324	0.298	0.364	0.362	0.437	0.499	0.407	0.469	0.395	17.81
93) T n-Undecane	1.330	1.231	1.458	1.398	1.548	1.573	1.230	1.327	1.387	9.50
94) T 1,2,4-Trichlorobe	0.701	0.595	0.804	0.760	0.877	0.957	0.772	0.892	0.795	14.51
95) T Naphthalene	2.936	2.620	3.084	2.996	3.377	3.682	2.924	3.122	3.093	10.34
96) T n-Dodecane	1.462	1.440	1.731	1.633	1.792	1.746	1.375	1.469	1.581	10.31
97) T Hexachlorobutadie	0.458	0.435	0.473	0.453	0.508	0.534	0.445	0.518	0.478	7.80
98) T Cyclohexanone	1.009	0.855	0.876	0.835	0.946	1.067	0.855	0.979	0.928	9.17
99) T tert-Butylbenzene	2.140	2.013	2.273	2.146	2.325	2.453	1.922	2.065	2.167	8.06
100) T n-Butylbenzene	2.355	2.233	2.625	2.46	2.744	2.867	2.244	2.407	2.492	9.31

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: **S20-08240906**
20ng/L Std. ID: **S20-07310904**

200ng/L Std. ID: **S20-08240903**
Dilution Factors: 5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L):	ICAL Concentrations (Primary Source)								
		200ng/L	20ng/L	4ng/L		Injection (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
						ICAL Points:	0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng	100ng
Propene	1.07	214	21.4	4.28			0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Dichlorodifluoromethane	1.05	210	21.0	4.20			0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Chloromethane	1.00	200	20.0	4.00			0.100	0.200	0.500	1.00	5.00	25.0	50.0	100
Freon-114	1.06	212	21.2	4.24			0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
Vinyl Chloride	1.01	202	20.2	4.04			0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
1,3-Butadiene	1.20	240	24.0	4.80			0.120	0.240	0.600	1.20	6.00	30.0	60.0	120
Bromomethane	1.02	204	20.4	4.08			0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
Chloroethane	1.01	202	20.2	4.04			0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
Ethanol	5.20	1040	104	20.8			0.520	1.040	2.60	5.20	26.0	130	260	520
Acetonitrile	1.05	210	21.0	4.20			0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Acrolein	1.08	216	21.6	4.32			0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Acetone	5.50	1100	110	22.0			0.550	1.100	2.75	5.50	27.5	138	275	550
Trichlorofluoromethane	1.05	210	21.0	4.20			0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Isopropanol	1.89	378	37.8	7.56			0.189	0.378	0.945	1.89	9.45	47.3	94.5	189
Acrylonitrile	1.06	212	21.2	4.24			0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,1-Dichloroethene	1.10	220	22.0	4.40			0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
tert-Butanol	2.02	404	40.4	8.08			0.202	0.404	1.01	2.02	10.1	50.5	101	202
Methylene Chloride	1.07	214	21.4	4.28			0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Allyl Chloride	1.08	216	21.6	4.32			0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Trichlorotrifluoroethane	1.10	220	22.0	4.40			0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
Carbon Disulfide	1.07	214	21.4	4.28			0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
trans-1,2-Dichloroethene	1.06	212	21.2	4.24			0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,1-Dichloroethane	1.06	212	21.2	4.24			0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
Methyl tert-Butyl Ether	1.09	218	21.8	4.36			0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
Vinyl Acetate	5.02	1004	100	20.1			0.502	1.004	2.51	5.02	25.1	126	251	502
2-Butanone	1.10	220	22.0	4.40			0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
cis-1,2-Dichloroethene	1.09	218	21.8	4.36			0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
Diisopropyl Ether	1.07	214	21.4	4.28			0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Ethyl Acetate	2.13	426	42.6	8.52			0.213	0.426	1.07	2.13	10.7	53.3	107	213
n-Hexane	1.09	218	21.8	4.36			0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
Chloroform	1.07	214	21.4	4.28			0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Tetrahydrofuran	1.10	220	22.0	4.40			0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
Ethyl tert-Butyl Ether	1.03	206	20.6	4.12			0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
1,2-Dichloroethane	1.06	212	21.2	4.24			0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,1,1-Trichloroethane	1.05	210	21.0	4.20			0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Isopropyl Acetate	2.09	418	41.8	8.36			0.209	0.418	1.05	2.09	10.5	52.3	105	209
1-Butanol	2.07	414	41.4	8.28			0.207	0.414	1.04	2.07	10.4	51.8	104	207
Benzene	1.06	212	21.2	4.24			0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
Carbon Tetrachloride	1.08	216	21.6	4.32			0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Cyclohexane	2.15	430	43.0	8.60			0.215	0.430	1.08	2.15	10.8	53.8	108	215
tert-Amyl Methyl Ether	1.04	208	20.8	4.16			0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
1,2-Dichloropropane	1.05	210	21.0	4.20			0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Bromodichloromethane	1.08	216	21.6	4.32			0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Trichloroethene	1.06	212	21.2	4.24			0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,4-Dioxane	1.07	214	21.4	4.28			0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Isooctane	1.04	208	20.8	4.16			0.104	0.208	0.520	1.04	5.20	26.0	52.0	104
Methyl Methacrylate	2.13	426	42.6	8.52			0.213	0.426	1.07	2.13	10.7	53.3	107	213
n-Heptane	1.06	212	21.2	4.24			0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
cis-1,3-Dichloropropene	0.99	198	19.8	3.96			0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
4-Methyl-2-pentanone	1.10	220	22.0	4.40			0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
trans-1,3-Dichloropropene	1.10	220	22.0	4.40			0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
1,1,2-Trichloroethane	1.05	210	21.0	4.20			0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
Toluene	1.08	216	21.6	4.32			0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
2-Hexanone	1.10	220	22.0	4.40			0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
Dibromochloromethane	1.15	230	23.0	4.60			0.115	0.230	0.575	1.15	5.75	28.8	57.5	115
1,2-Dibromoethane	1.06	212	21.2	4.24			0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
n-Butyl Acetate	1.10	220	22.0	4.40			0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
n-Octane	1.07	214	21.4	4.28			0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Tetrachloroethene	1.02	204	20.4	4.08			0.102	0.204	0.510	1.02	5.10	25.5	51.0	102
Chlorobenzene	1.08	216	21.6	4.32			0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Ethylbenzene	1.06	212	21.2	4.24			0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
m-&p-Xylene	2.08	416	41.6	8.32			0.208	0.416	1.04	2.08	10.4	52.0	104	208

MM 8/28/09

CC 8/28/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-08240906
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.

LM 8/3/09

*CC
8-31-09*

Calibration Status Report GCMS13

Method Path : J:\MS13\METHODS\
 Method File : R13082709.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS13\DATA\2009_08\27\08270906.D
2	0.2	0	25	J:\MS13\DATA\2009_08\27\08270907.D
3	0.5	1	25	J:\MS13\DATA\2009_08\27\08270908.D
4	1.0	1	25	J:\MS13\DATA\2009_08\27\08270909.D
5	5.0	5	25	J:\MS13\DATA\2009_08\27\08270910.D
6	25	27	25	J:\MS13\DATA\2009_08\27\08270911.D
7	50	54	25	J:\MS13\DATA\2009_08\27\08270912.D
8	100	107	25	J:\MS13\DATA\2009_08\27\08270913.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 28 05:59 2009	Aug 27 20:42 2009	27 Aug 2009 15:31
2	0.2	Aug 28 06:00 2009	Aug 27 20:45 2009	27 Aug 2009 16:11
3	0.5	Aug 28 06:00 2009	Aug 28 05:44 2009	27 Aug 2009 16:52
4	1.0	Aug 28 06:00 2009	Aug 28 05:46 2009	27 Aug 2009 17:32
5	5.0	Aug 28 06:01 2009	Aug 28 05:49 2009	27 Aug 2009 18:13
6	25	Aug 28 06:01 2009	Aug 28 05:51 2009	27 Aug 2009 18:53
7	50	Aug 28 06:01 2009	Aug 28 05:54 2009	27 Aug 2009 19:34
8	100	Aug 28 06:02 2009	Aug 28 05:57 2009	27 Aug 2009 20:14

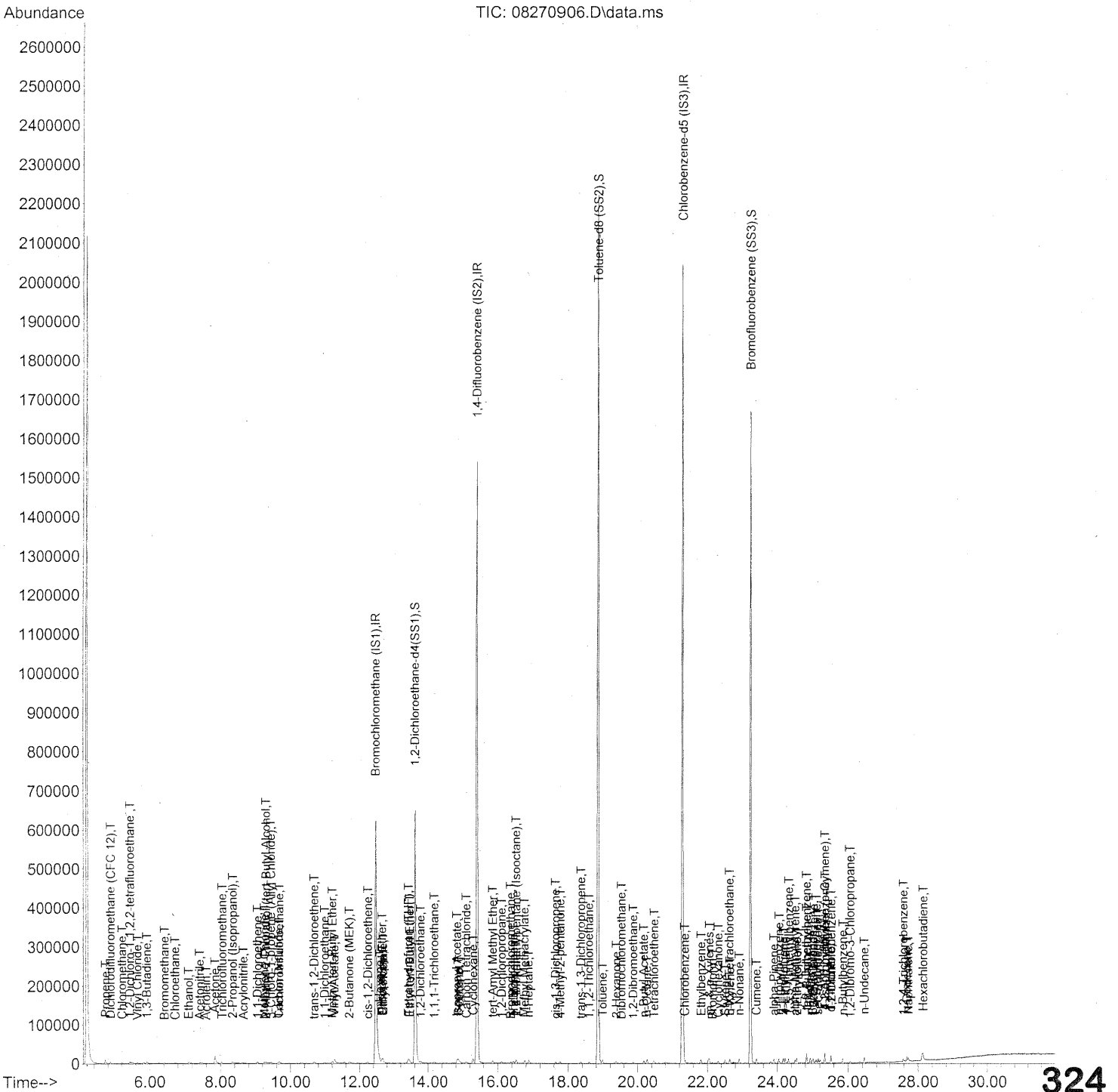
R13082709.M Fri Aug 28 06:14:23 2009

LM 8/28/09
CC 8/28/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270906.D
 Acq On : 27 Aug 2009 15:31
 Operator : WA/CC
 Sample : 0.1ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:42:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270906.D
 Acq On : 27 Aug 2009 15:31
 Operator : WA/CC
 Sample : 0.1ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:42:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

WA 8/28/09
cc
8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.47	130	345606	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.41	114	1747755	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.28	82	850515	25.000	ng	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.62	65	691489	23.020	ng	-0.01
Spiked Amount	25.000		Recovery	=	92.08%	✓
57) Toluene-d8 (SS2)	18.85	98	1893630	25.481	ng	0.00
Spiked Amount	25.000		Recovery	=	101.92%	✓
73) Bromofluorobenzene (SS3)	23.23	174	541883	27.650	ng	0.00
Spiked Amount	25.000		Recovery	=	110.60%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.72	42	3295	0.139	ng	98
3) Dichlorodifluoromethan...	4.88	85	5608	0.145	ng	# 88
4) Chloromethane	5.21	50	3123	0.120	ng	74
5) 1,2-Dichloro-1,1,2,2-t...	5.43	135	2097	0.133	ng	73
6) Vinyl Chloride	5.65	62	2864	0.114	ng	# 49
7) 1,3-Butadiene	5.92	54	2790	0.156	ng	90
8) Bromomethane	6.42	94	1602	0.105	ng	# 59
9) Chloroethane	6.72	64	1545	0.106	ng	76
10) Ethanol	7.10	45	8140	0.541	ng	# 66
11) Acetonitrile	7.42	41	5415	0.123	ng	# 25
12) Acrolein	7.59	56	602	0.053	ng	# 54
13) Acetone	7.85	58	11708	0.825	ng	95
14) Trichlorofluoromethane	8.05	101	4087	0.117	ng	98
15) 2-Propanol (Isopropanol)	8.34	45	14347	0.257	ng	80
16) Acrylonitrile	8.65	53	2460	0.096	ng	# 9
17) 1,1-Dichloroethene	9.05	96	2161	0.133	ng	# 84
18) 2-Methyl-2-Propanol (t...	9.29	59	11481m	0.232	ng	
19) Methylene Chloride	9.25	84	2386	0.125	ng	97
20) 3-Chloro-1-propene (Al...	9.43	41	3765	0.103	ng	84
21) Trichlorotrifluoroethane	9.68	151	1561	0.123	ng	# 1
22) Carbon Disulfide	9.66	76	8161	0.122	ng	84
23) trans-1,2-Dichloroethene	10.68	61	2887	0.100	ng	78
24) 1,1-Dichloroethane	10.98	63	4252	0.122	ng	89
25) Methyl tert-Butyl Ether	11.20	73	6878	0.128	ng	93
26) Vinyl Acetate	11.27	86	1953	0.677	ng	# 30
27) 2-Butanone (MEK)	11.70	72	1572	0.123	ng	# 87
28) cis-1,2-Dichloroethene	12.24	61	2964	0.111	ng	80
29) Diisopropyl Ether	12.66	87	1889	0.110	ng	# 6
30) Ethyl Acetate	12.69	61	1319	0.198	ng	97
31) n-Hexane	12.58	57	4251	0.125	ng	

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270906.D
 Acq On : 27 Aug 2009 15:31
 Operator : WA/CC
 Sample : 0.1ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:42:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	3877	0.129	ng	93
34) Tetrahydrofuran (THF)	13.42	72	4140	0.303	ng	# 86
35) Ethyl tert-Butyl Ether	13.46	87	2258	0.102	ng	# 76
36) 1,2-Dichloroethane	13.78	62	3463	0.126	ng	87
38) 1,1,1-Trichloroethane	14.17	97	3520	0.119	ng	82
39) Isopropyl Acetate	14.83	61	2853	0.220	ng	# 58
40) 1-Butanol	14.91	56	5004	0.221	ng	# 39
41) Benzene	14.87	78	10112	0.132	ng	94
42) Carbon Tetrachloride	15.10	117	2971	0.121	ng	85
43) Cyclohexane	15.30	84	6910	0.246	ng	95
44) tert-Amyl Methyl Ether	15.86	73	7323	0.127	ng	94
45) 1,2-Dichloropropane	16.11	63	2060	0.107	ng	93
46) Bromodichloromethane	16.37	83	3004	0.119	ng	93
47) Trichloroethene	16.44	130	2040	0.118	ng	97
48) 1,4-Dioxane	16.52	88	1375	0.094	ng	79
49) 2,2,4-Trimethylpentane...	16.52	57	10591	0.117	ng	96
50) Methyl Methacrylate	16.76	100	1493	0.211	ng	93
51) n-Heptane	16.87	71	2136	0.104	ng	83
52) cis-1,3-Dichloropropene	17.65	75	3093	0.097	ng	99
53) 4-Methyl-2-pentanone	17.77	58	2022	0.109	ng	87
54) trans-1,3-Dichloropropene	18.36	75	3156	0.104	ng	91
55) 1,1,2-Trichloroethane	18.59	97	2137	0.127	ng	86
58) Toluene	18.98	91	9590	0.131	ng	98
59) 2-Hexanone	19.38	43	6099	0.126	ng	87
60) Dibromochloromethane	19.52	129	2164	0.125	ng	98
61) 1,2-Dibromoethane	19.86	107	2135	0.117	ng	97
62) n-Butyl Acetate	20.17	43	6315	0.110	ng	# 82
63) n-Octane	20.26	57	2279	0.129	ng	94
64) Tetrachloroethene	20.47	166	2055	0.122	ng	96
65) Chlorobenzene	21.35	112	5957	0.132	ng	97
66) Ethylbenzene	21.82	91	10455	0.125	ng	100
67) m- & p-Xylenes	22.05	91	16072	0.238	ng	99
68) Bromoform	22.14	173	1723	0.120	ng	71
69) Styrene	22.51	104	5939	0.122	ng	95
70) o-Xylene	22.65	91	7925	0.117	ng	93
71) n-Nonane	22.91	43	5083	0.113	ng	# 77
72) 1,1,2,2-Tetrachloroethane	22.62	83	3696	0.123	ng	98
74) Cumene	23.40	105	10070	0.118	ng	99
75) alpha-Pinene	23.90	93	5243	0.120	ng	80
76) n-Propylbenzene	24.05	91	13198	0.123	ng	94
77) 3-Ethyltoluene	24.17	105	10566	0.129	ng	98
78) 4-Ethyltoluene	24.22	105	10439	0.132	ng	99
79) 1,3,5-Trimethylbenzene	24.32	105	8293	0.124	ng	92

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270906.D
 Acq On : 27 Aug 2009 15:31
 Operator : WA/CC
 Sample : 0.1ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:42:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

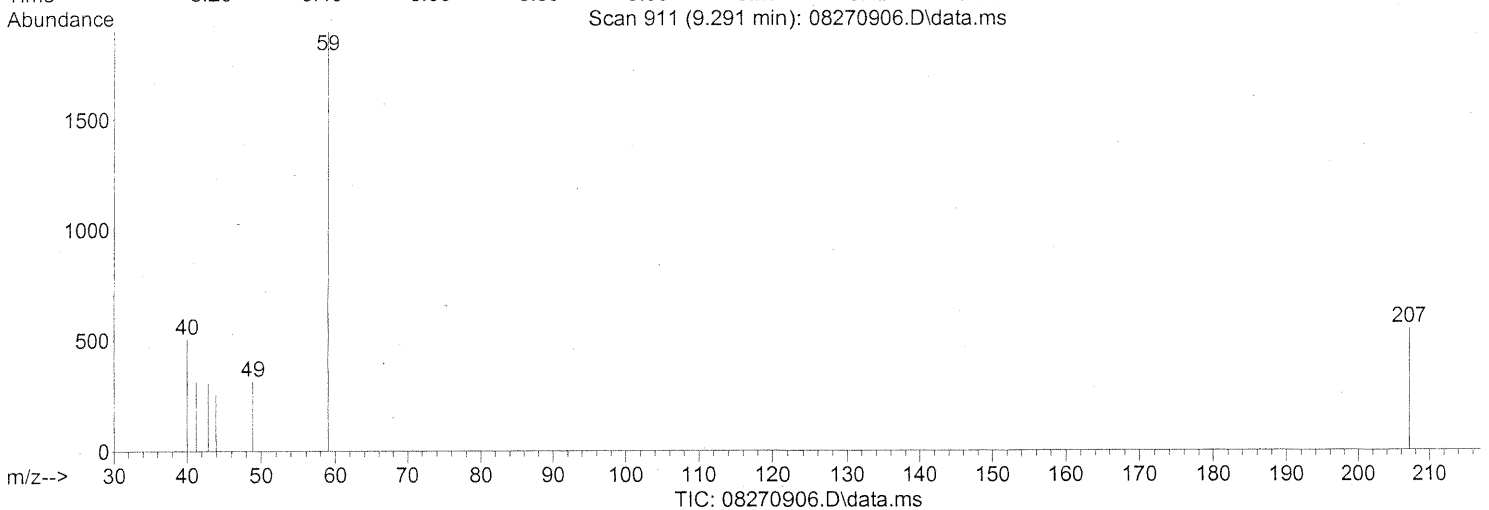
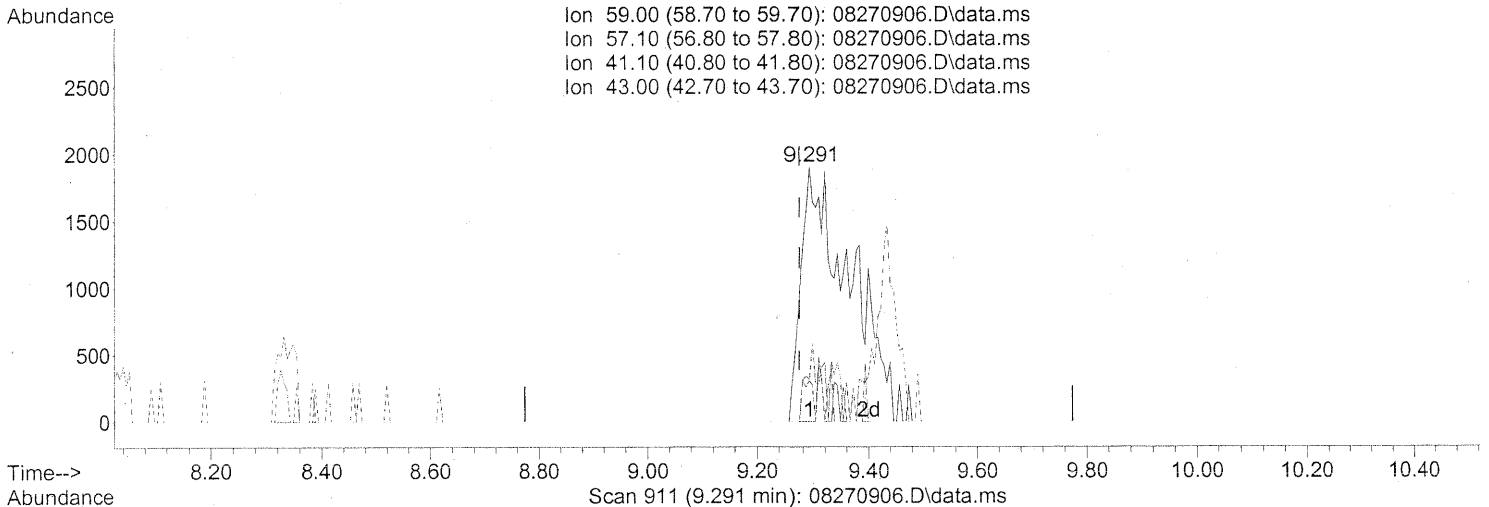
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.50	118	3476	0.097	ng	94
81) 2-Ethyltoluene	24.56	105	10184	0.124	ng	94
82) 1,2,4-Trimethylbenzene	24.82	105	8179	0.120	ng	97
83) n-Decane	24.93	57	5026	0.113	ng	95
84) Benzyl Chloride	25.00	91	8718	0.137	ng	96
85) 1,3-Dichlorobenzene	25.03	146	4903	0.142	ng	95
86) 1,4-Dichlorobenzene	25.10	146	4624	0.126	ng	96
87) sec-Butylbenzene	25.15	105	11109	0.121	ng	97
88) 4-Isopropyltoluene (p-...	25.35	119	9355	0.114	ng	96
89) 1,2,3-Trimethylbenzene	25.35	105	8824	0.127	ng	99
90) 1,2-Dichlorobenzene	25.53	146	3966	0.121	ng	94
91) d-Limonene	25.52	68	2775	0.096	ng	82
92) 1,2-Dibromo-3-Chloropr...	26.06	157	1212	0.108	ng	# 70
93) n-Undecane	26.46	57	4933	0.105	ng	95
94) 1,2,4-Trichlorobenzene	27.58	180	2671	0.119	ng	95
95) Naphthalene	27.73	128	10587	0.114	ng	98
96) n-Dodecane	27.69	57	4925	0.090	ng	94
97) Hexachlorobutadiene	28.14	225	1714	0.120	ng	88
98) Cyclohexanone	22.32	55	3365	0.111	ng	96
99) tert-Butylbenzene	24.83	119	7717	0.117	ng	96
100) n-Butylbenzene	25.86	91	8734	0.115	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270906.D
 Acq On : 27 Aug 2009 15:31
 Operator : WA/CC
 Sample : 0.1ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:40:49 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol (T))

9.291min (+0.017) 0.20ng

response 9815

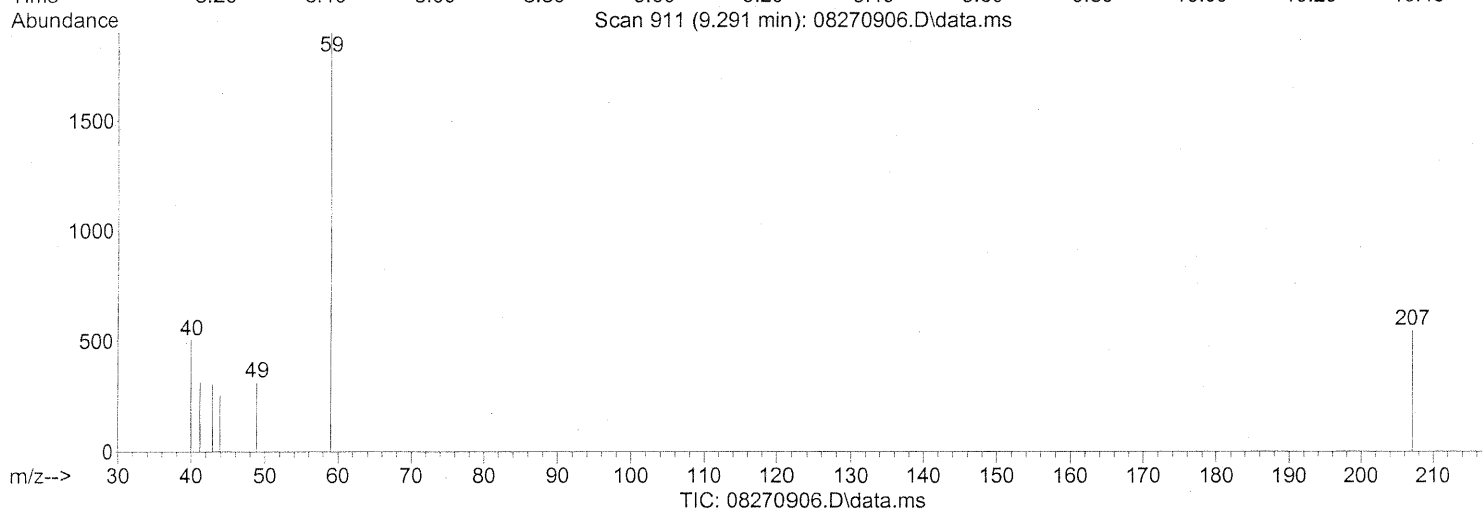
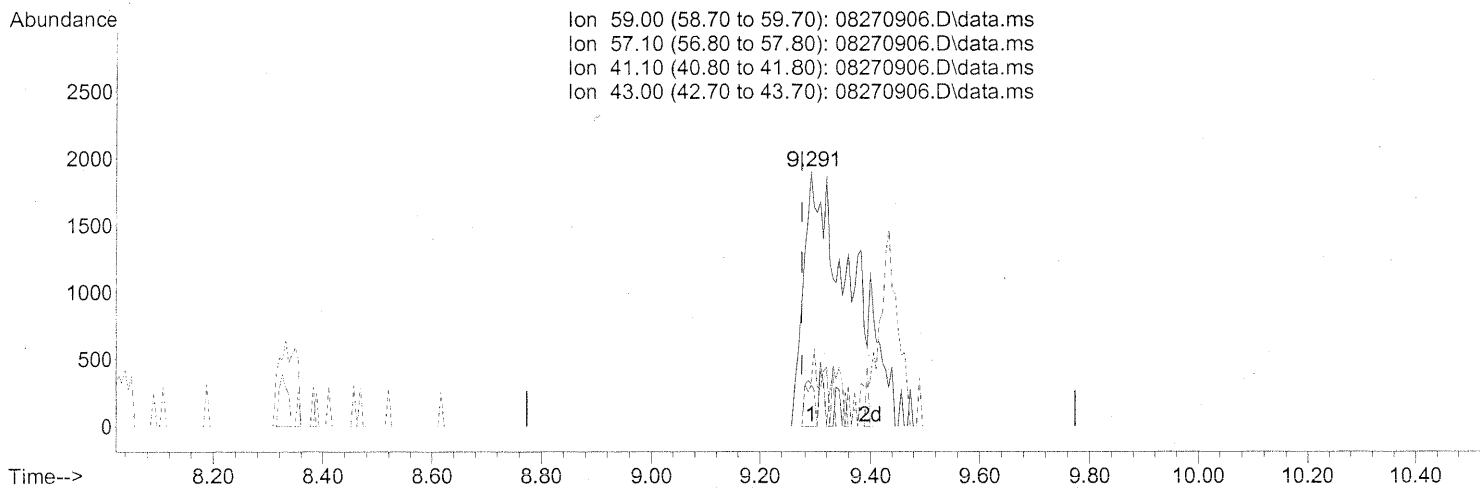
Ion	Exp%	Act%
59.00	100	100
57.10	10.20	2.84
41.10	20.40	10.37
43.00	14.90	2.64

SP

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270906.D
Acq On : 27 Aug 2009 15:31
Operator : WA/CC
Sample : 0.1ng TO-15 ICAL
Misc : S20-08140906/S20-08240906
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:40:49 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol (T))

9.291min (+0.017) 0.23ng m

response 11481

Ion	Exp%	Act%
59.00	100	100
57.10	10.20	2.43
41.10	20.40	8.87
43.00	14.90	2.26

SP -> IC

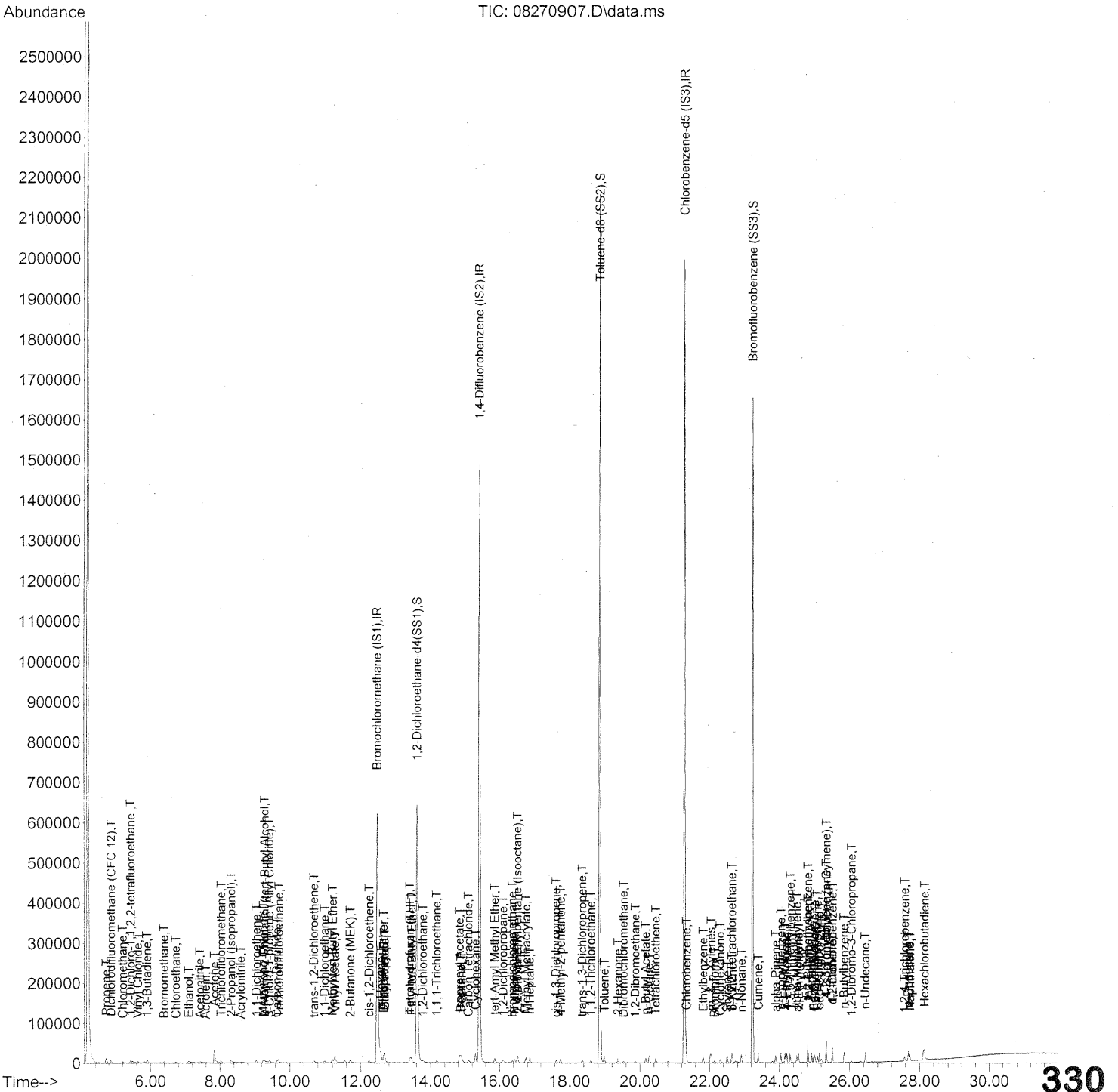
LM 8/28/09

*CC
8/28/09*

— R 8/31/09

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270907.D
Acq On : 27 Aug 2009 16:11
Operator : WA/CC
Sample : 0.2ng TO-15 ICAL
Misc : S20-08140906/S20-08240906
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:45:29 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270907.D
 Acq On : 27 Aug 2009 16:11
 Operator : WA/CC
 Sample : 0.2ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:45:29 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

*WA 8/28/09
 CC
 8/28/09*

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	340975	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.41	114	1701721	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.28	82	833637	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.62	65	685827	23.141	ng	-0.01
Spiked Amount	25.000		Recovery	=	92.56%	✓
57) Toluene-d8 (SS2)	18.85	98	1859118	25.523	ng	0.00
Spiked Amount	25.000		Recovery	=	102.08%	✓
73) Bromofluorobenzene (SS3)	23.23	174	534463	27.823	ng	0.00
Spiked Amount	25.000		Recovery	=	111.28%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.72	42	5160	0.221	ng	95
3) Dichlorodifluoromethan...	4.87	85	9386	0.245	ng	94
4) Chloromethane	5.20	50	5755	0.224	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	5.43	135	3928	0.253	ng	90
6) Vinyl Chloride	5.64	62	5431	0.220	ng	91
7) 1,3-Butadiene	5.90	54	4492	0.254	ng	93
8) Bromomethane	6.39	94	3059	0.204	ng	82
9) Chloroethane	6.73	64	2955	0.206	ng	81
10) Ethanol	7.10	45	16601	1.119	ng	91
11) Acetonitrile	7.42	41	9487	0.218	ng	# 27
12) Acrolein	7.59	56	1475	0.131	ng	92
13) Acetone	7.84	58	20320	1.452	ng	88
14) Trichlorofluoromethane	8.03	101	7617	0.220	ng	100
15) 2-Propanol (Isopropanol)	8.32	45	23522	0.428	ng	83
16) Acrylonitrile	8.60	53	4804	0.190	ng	98
17) 1,1-Dichloroethene	9.05	96	3926	0.245	ng	# 84
18) 2-Methyl-2-Propanol (t...	9.29	59	21583	0.442	ng	89
19) Methylene Chloride	9.25	84	4504	0.240	ng	99
20) 3-Chloro-1-propene (Al...	9.43	41	6623	0.183	ng	87
21) Trichlorotrifluoroethane	9.70	151	3267	0.260	ng	94
22) Carbon Disulfide	9.64	76	14675	0.221	ng	89
23) trans-1,2-Dichloroethene	10.68	61	5119	0.180	ng	# 69
24) 1,1-Dichloroethane	10.98	63	7110	0.206	ng	96
25) Methyl tert-Butyl Ether	11.21	73	11856	0.224	ng	99
26) Vinyl Acetate	11.28	86	3710	1.303	ng	# 58
27) 2-Butanone (MEK)	11.71	72	2463	0.195	ng	# 47
28) cis-1,2-Dichloroethene	12.24	61	5377	0.203	ng	# 75
29) Diisopropyl Ether	12.65	87	3742	0.221	ng	# 19
30) Ethyl Acetate	12.68	61	2340	0.355	ng	87
31) n-Hexane	12.58	57	7647	0.227	ng	831

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270907.D
 Acq On : 27 Aug 2009 16:11
 Operator : WA/CC
 Sample : 0.2ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:45:29 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	6687	0.226	ng	98
34) Tetrahydrofuran (THF)	13.40	72	5125	0.381	ng	98
35) Ethyl tert-Butyl Ether	13.46	87	4658	0.213	ng	95
36) 1,2-Dichloroethane	13.78	62	5779	0.213	ng	91
38) 1,1,1-Trichloroethane	14.17	97	6372	0.221	ng	98
39) Isopropyl Acetate	14.83	61	4936	0.391	ng	# 55
40) 1-Butanol	14.89	56	9325	0.422	ng	# 45
41) Benzene	14.87	78	17799	0.238	ng	98
42) Carbon Tetrachloride	15.09	117	5161	0.216	ng	96
43) Cyclohexane	15.29	84	12537	0.457	ng	95
44) tert-Amyl Methyl Ether	15.85	73	11885	0.212	ng	96
45) 1,2-Dichloropropane	16.10	63	3944	0.210	ng	91
46) Bromodichloromethane	16.37	83	4951	0.201	ng	100
47) Trichloroethene	16.44	130	4154	0.246	ng	97
48) 1,4-Dioxane	16.53	88	3119	0.218	ng	94
49) 2,2,4-Trimethylpentane...	16.52	57	18593	0.211	ng	99
50) Methyl Methacrylate	16.77	100	2677	0.389	ng	90
51) n-Heptane	16.88	71	4079	0.203	ng	96
52) cis-1,3-Dichloropropene	17.64	75	5760	0.185	ng	98
53) 4-Methyl-2-pentanone	17.76	58	3609	0.201	ng	99
54) trans-1,3-Dichloropropene	18.35	75	6333	0.214	ng	96
55) 1,1,2-Trichloroethane	18.59	97	3778	0.230	ng	92
58) Toluene	18.98	91	17023	0.238	ng	98
59) 2-Hexanone	19.37	43	9868	0.207	ng	99
60) Dibromochloromethane	19.53	129	4235	0.250	ng	95
61) 1,2-Dibromoethane	19.86	107	4153	0.231	ng	100
62) n-Butyl Acetate	20.17	43	11310	0.202	ng	89
63) n-Octane	20.26	57	3664	0.212	ng	97
64) Tetrachloroethene	20.46	166	3957	0.239	ng	96
65) Chlorobenzene	21.34	112	10897	0.246	ng	98
66) Ethylbenzene	21.82	91	18233	0.223	ng	97
67) m- & p-Xylenes	22.05	91	29210	0.441	ng	97
68) Bromoform	22.15	173	3138	0.223	ng	95
69) Styrene	22.51	104	10416	0.218	ng	98
70) o-Xylene	22.65	91	14247	0.215	ng	99
71) n-Nonane	22.91	43	9314	0.211	ng	93
72) 1,1,2,2-Tetrachloroethane	22.63	83	6695	0.227	ng	94
74) Cumene	23.40	105	18142	0.216	ng	99
75) alpha-Pinene	23.90	93	9293	0.216	ng	89
76) n-Propylbenzene	24.05	91	22743	0.216	ng	97
77) 3-Ethyltoluene	24.17	105	17686	0.221	ng	98
78) 4-Ethyltoluene	24.22	105	17956	0.231	ng	93
79) 1,3,5-Trimethylbenzene	24.31	105	14932	0.228	ng	96

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270907.D
 Acq On : 27 Aug 2009 16:11
 Operator : WA/CC
 Sample : 0.2ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

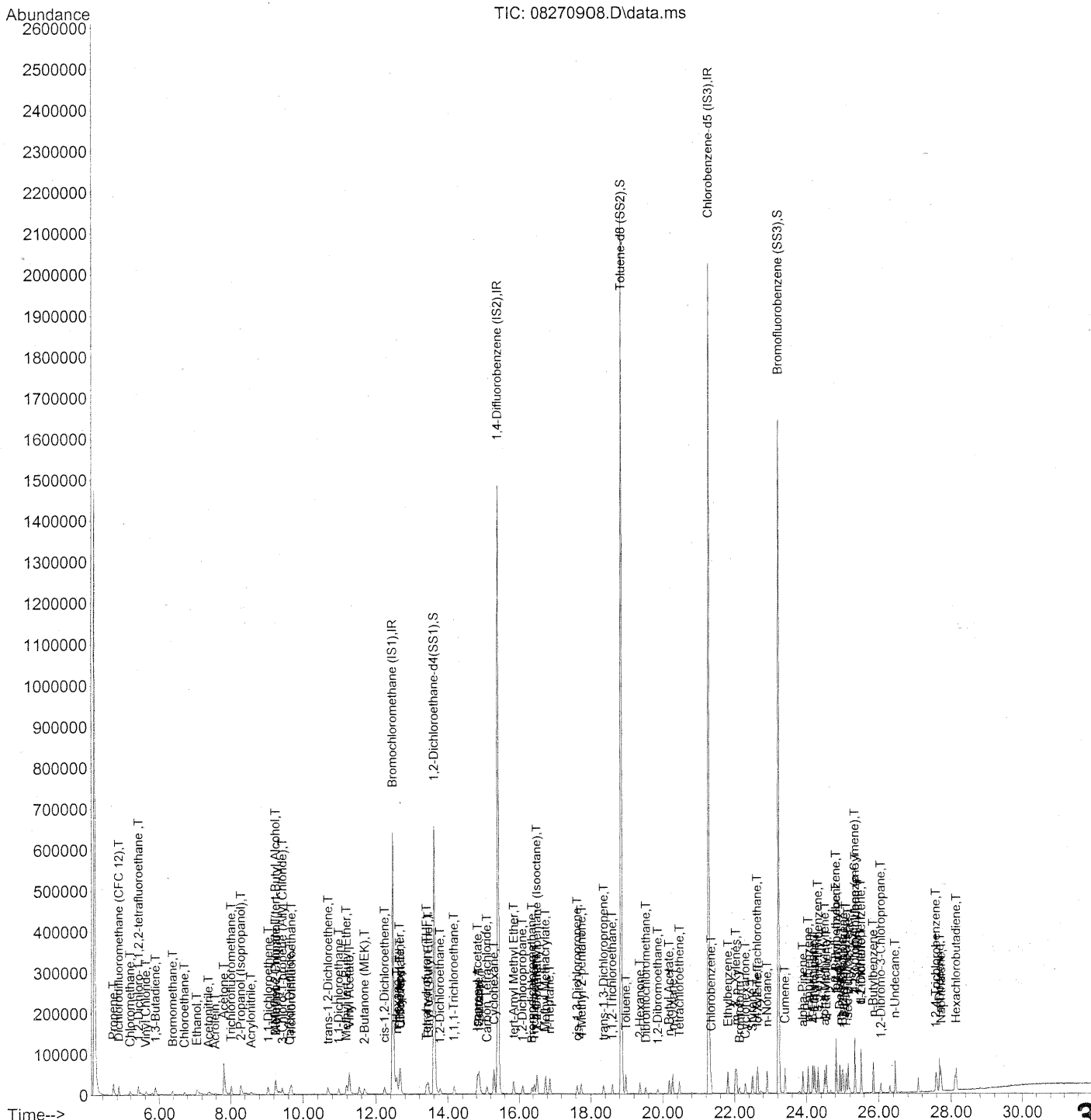
Quant Time: Aug 27 20:45:29 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	7003	0.200	ng	99
81) 2-Ethyltoluene	24.56	105	17935	0.222	ng	97
82) 1,2,4-Trimethylbenzene	24.82	105	14553	0.218	ng	100
83) n-Decane	24.93	57	8758	0.202	ng	94
84) Benzyl Chloride	25.00	91	14670	0.234	ng	96
85) 1,3-Dichlorobenzene	25.02	146	7963	0.236	ng	96
86) 1,4-Dichlorobenzene	25.10	146	8150	0.226	ng	93
87) sec-Butylbenzene	25.15	105	20362	0.226	ng	96
88) 4-Isopropyltoluene (p-...	25.35	119	17804	0.221	ng	95
89) 1,2,3-Trimethylbenzene	25.35	105	16408	0.241	ng	94
90) 1,2-Dichlorobenzene	25.53	146	7447	0.232	ng	99
91) d-Limonene	25.53	68	6028	0.212	ng	92
92) 1,2-Dibromo-3-Chloropr...	26.06	157	2189	0.199	ng	# 82
93) n-Undecane	26.45	57	8949	0.194	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	4448	0.202	ng	91
95) Naphthalene	27.73	128	18518	0.204	ng	98
96) n-Dodecane	27.69	57	9509	0.177	ng	97
97) Hexachlorobutadiene	28.14	225	3188	0.228	ng	99
98) Cyclohexanone	22.31	55	5589	0.188	ng	94
99) tert-Butylbenzene	24.82	119	14229	0.220	ng	97
100) n-Butylbenzene	25.86	91	16229	0.218	ng	98

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

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270908.D
Acq On : 27 Aug 2009 16:52
Operator : WA/CC
Sample : 0.5ng TO-15 ICAL
Misc : S20-08140906/S20-07310904
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:44:03 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270908.D
 Acq On : 27 Aug 2009 16:52
 Operator : WA/CC
 Sample : 0.5ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:44:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

LM 8/28/09
CC 8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.47	130	345051	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.41	114	1706332	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.28	82	833135	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.61	65	689482	22.990	ng	-0.02
Spiked Amount	25.000		Recovery	=	91.96%	✓
57) Toluene-d8 (SS2)	18.85	98	1851026	25.427	ng	0.00
Spiked Amount	25.000		Recovery	=	101.72%	✓
73) Bromofluorobenzene (SS3)	23.23	174	534967	27.866	ng	0.00
Spiked Amount	25.000		Recovery	=	111.48%	✓

Target Compounds

						Qvalue
2) Propene	4.70	42	12619	0.533	ng	97
3) Dichlorodifluoromethan...	4.86	85	24316	0.628	ng	99
4) Chloromethane	5.18	50	15225	0.586	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	9302	0.592	ng	97
6) Vinyl Chloride	5.62	62	13528	0.542	ng	96
7) 1,3-Butadiene	5.90	54	11921	0.666	ng	94
8) Bromomethane	6.38	94	9283	0.610	ng	97
9) Chloroethane	6.71	64	7657	0.527	ng	98
10) Ethanol	7.06	45	42023m	2.800	ng	
11) Acetonitrile	7.39	41	22509	0.512	ng	98
12) Acrolein	7.58	56	5829	0.510	ng	89
13) Acetone	7.82	58	45815	3.235	ng	96
14) Trichlorofluoromethane	8.02	101	21625	0.618	ng	92
15) 2-Propanol (Isopropanol)	8.29	45	61189	1.100	ng	90
16) Acrylonitrile	8.57	53	13383	0.523	ng	91
17) 1,1-Dichloroethene	9.04	96	10592	0.652	ng	88
18) 2-Methyl-2-Propanol (t...	9.24	59	54672	1.107	ng	92
19) Methylene Chloride	9.24	84	11486	0.604	ng	94
20) 3-Chloro-1-propene (Al...	9.43	41	16557	0.452	ng	93
21) Trichlorotrifluoroethane	9.68	151	9319	0.733	ng	# 83
22) Carbon Disulfide	9.63	76	39699	0.592	ng	98
23) trans-1,2-Dichloroethene	10.68	61	15719	0.547	ng	90
24) 1,1-Dichloroethane	10.98	63	19419	0.557	ng	99
25) Methyl tert-Butyl Ether	11.19	73	31441	0.587	ng	99
26) Vinyl Acetate	11.27	86	10642	3.693	ng	# 86
27) 2-Butanone (MEK)	11.68	72	6992	0.547	ng	# 81
28) cis-1,2-Dichloroethene	12.23	61	15924	0.595	ng	93
29) Diisopropyl Ether	12.65	87	10676	0.624	ng	# 23
30) Ethyl Acetate	12.67	61	7755	1.164	ng	93
31) n-Hexane	12.58	57	19007	0.558	ng	93

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270908.D
 Acq On : 27 Aug 2009 16:52
 Operator : WA/CC
 Sample : 0.5ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:44:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	19170	0.639	ng	99
34) Tetrahydrofuran (THF)	13.40	72	9447	0.693	ng	94
35) Ethyl tert-Butyl Ether	13.45	87	12406	0.560	ng	98
36) 1,2-Dichloroethane	13.78	62	15180	0.554	ng	100
38) 1,1,1-Trichloroethane	14.17	97	17572	0.607	ng	98
39) Isopropyl Acetate	14.83	61	13901	1.098	ng	# 68
40) 1-Butanol	14.88	56	21001	0.948	ng	# 1
41) Benzene	14.87	78	45429	0.606	ng	98
42) Carbon Tetrachloride	15.09	117	15004	0.628	ng	99
43) Cyclohexane	15.29	84	33280	1.211	ng	94
44) tert-Amyl Methyl Ether	15.85	73	33208	0.589	ng	97
45) 1,2-Dichloropropane	16.09	63	10583	0.562	ng	98
46) Bromodichloromethane	16.37	83	14579	0.590	ng	95
47) Trichloroethene	16.44	130	10279	0.607	ng	99
48) 1,4-Dioxane	16.51	88	9005	0.628	ng	98
49) 2,2,4-Trimethylpentane...	16.51	57	50304	0.569	ng	99
50) Methyl Methacrylate	16.76	100	7723	1.118	ng	98
51) n-Heptane	16.88	71	11807	0.586	ng	96
52) cis-1,3-Dichloropropene	17.65	75	16791	0.538	ng	99
53) 4-Methyl-2-pentanone	17.76	58	9904	0.549	ng	93
54) trans-1,3-Dichloropropene	18.36	75	17249	0.581	ng	98
55) 1,1,2-Trichloroethane	18.59	97	10107	0.614	ng	97
58) Toluene	18.98	91	44023	0.615	ng	97
59) 2-Hexanone	19.36	43	26209	0.551	ng	100
60) Dibromochloromethane	19.53	129	12008	0.709	ng	97
61) 1,2-Dibromoethane	19.86	107	11379	0.634	ng	96
62) n-Butyl Acetate	20.17	43	30526	0.544	ng	94
63) n-Octane	20.28	57	10325	0.597	ng	99
64) Tetrachloroethene	20.46	166	10600	0.640	ng	99
65) Chlorobenzene	21.34	112	28918	0.653	ng	100
66) Ethylbenzene	21.82	91	50554	0.618	ng	99
67) m- & p-Xylenes	22.04	91	78614	1.188	ng	99
68) Bromoform	22.14	173	8209	0.584	ng	99
69) Styrene	22.50	104	27564	0.576	ng	98
70) o-Xylene	22.65	91	40245	0.607	ng	99
71) n-Nonane	22.91	43	24499	0.556	ng	99
72) 1,1,2,2-Tetrachloroethane	22.63	83	19021	0.646	ng	96
74) Cumene	23.41	105	48639	0.580	ng	99
75) alpha-Pinene	23.90	93	24559	0.572	ng	99
76) n-Propylbenzene	24.05	91	62613	0.594	ng	98
77) 3-Ethyltoluene	24.17	105	48379	0.604	ng	100
78) 4-Ethyltoluene	24.23	105	49300	0.635	ng	98
79) 1,3,5-Trimethylbenzene	24.31	105	39271	0.600	ng	98

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270908.D
 Acq On : 27 Aug 2009 16:52
 Operator : WA/CC
 Sample : 0.5ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:44:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

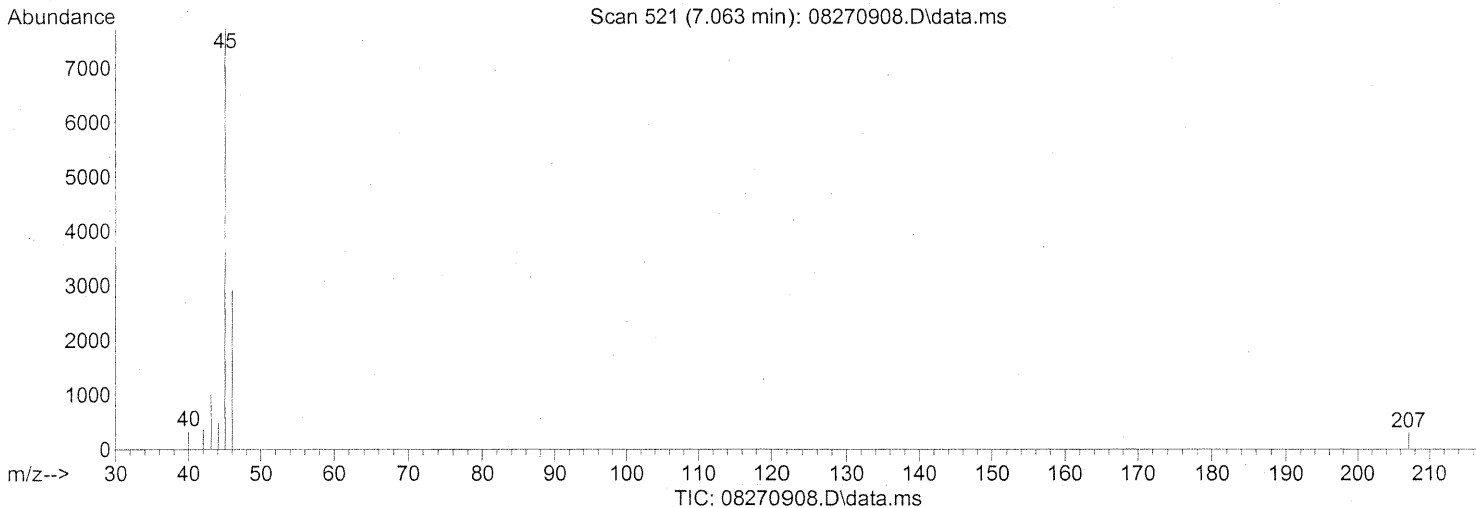
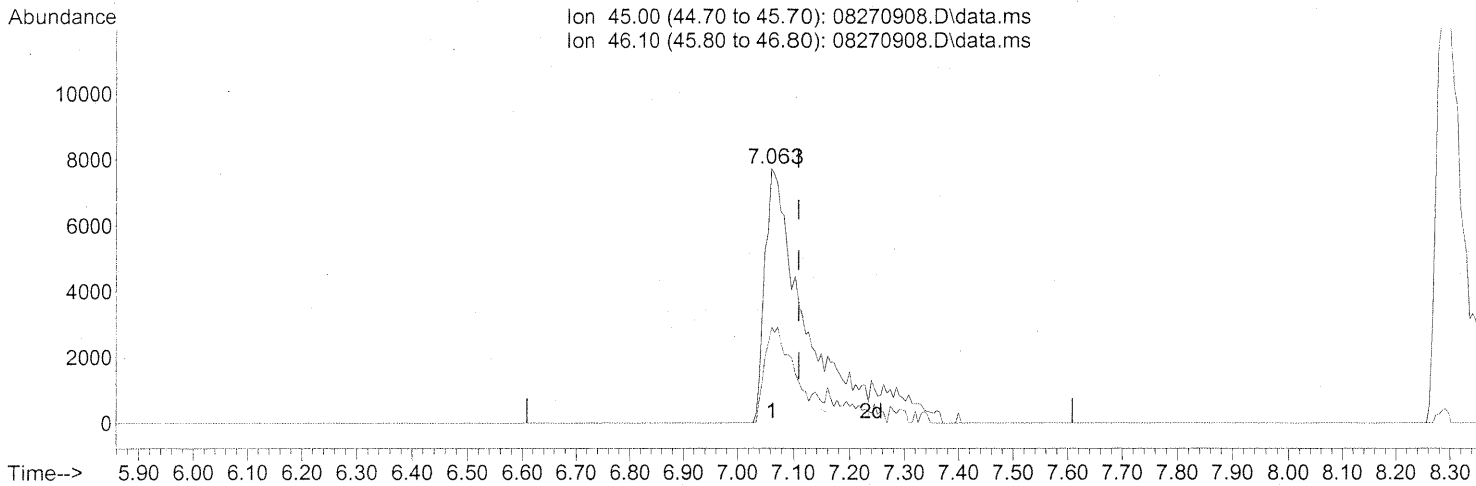
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	20092	0.573	ng	95
81) 2-Ethyltoluene	24.55	105	48257	0.598	ng	98
82) 1,2,4-Trimethylbenzene	24.82	105	40343	0.605	ng	95
83) n-Decane	24.93	57	25406	0.586	ng	99
84) Benzyl Chloride	25.00	91	40338	0.645	ng	96
85) 1,3-Dichlorobenzene	25.02	146	22095	0.654	ng	98
86) 1,4-Dichlorobenzene	25.10	146	22724	0.631	ng	94
87) sec-Butylbenzene	25.16	105	55697	0.618	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	49417	0.615	ng	97
89) 1,2,3-Trimethylbenzene	25.35	105	43348	0.638	ng	99
90) 1,2-Dichlorobenzene	25.52	146	20727	0.647	ng	100
91) d-Limonene	25.53	68	16073	0.566	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.06	157	6665	0.605	ng	83
93) n-Undecane	26.45	57	26484	0.574	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	15009	0.682	ng	98
95) Naphthalene	27.73	128	54474	0.601	ng	98
96) n-Dodecane	27.69	57	28561	0.533	ng	99
97) Hexachlorobutadiene	28.14	225	8673	0.619	ng	98
98) Cyclohexanone	22.30	55	14301	0.482	ng	97
99) tert-Butylbenzene	24.82	119	40141	0.621	ng	100
100) n-Butylbenzene	25.86	91	47669	0.641	ng	98

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270908.D
 Acq On : 27 Aug 2009 16:52
 Operator : WA/CC
 Sample : 0.5ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:43:23 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.063min (-0.046) 2.42ng

response 36361

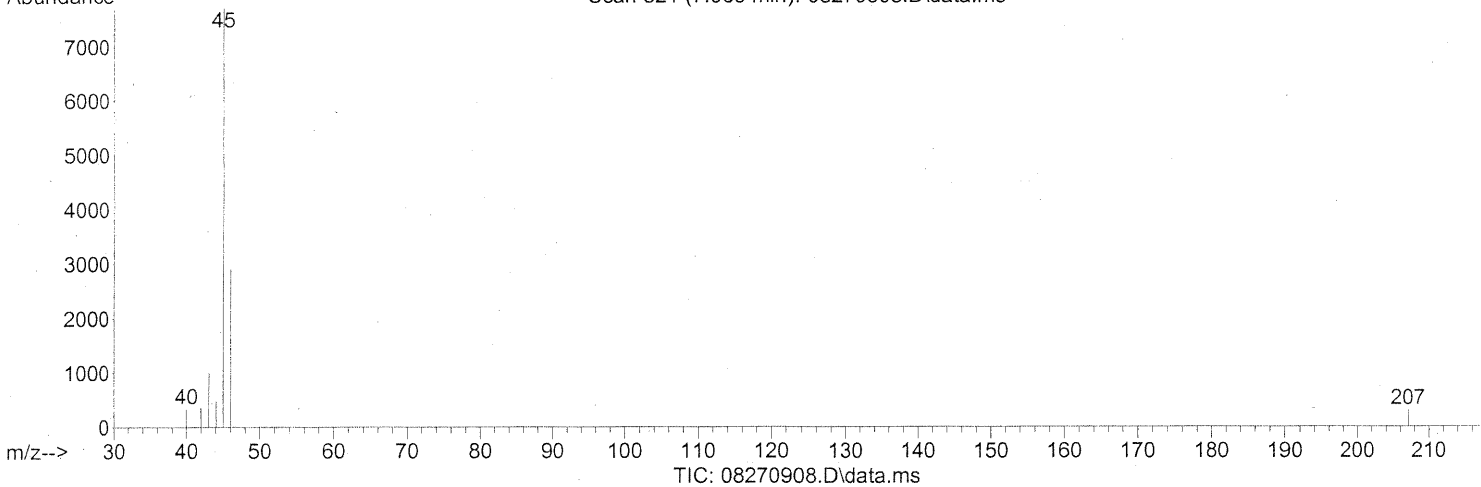
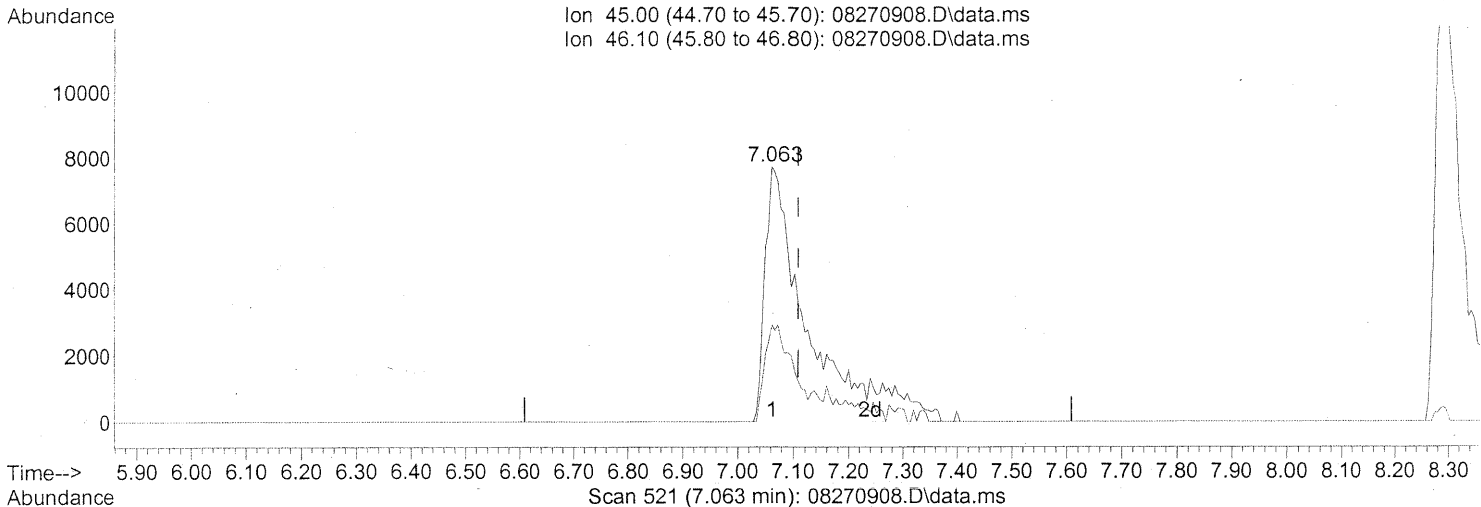
Ion	Exp%	Act%
45.00	100	100
46.10	38.20	30.77
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270908.D
 Acq On : 27 Aug 2009 16:52
 Operator : WA/CC
 Sample : 0.5ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:43:23 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



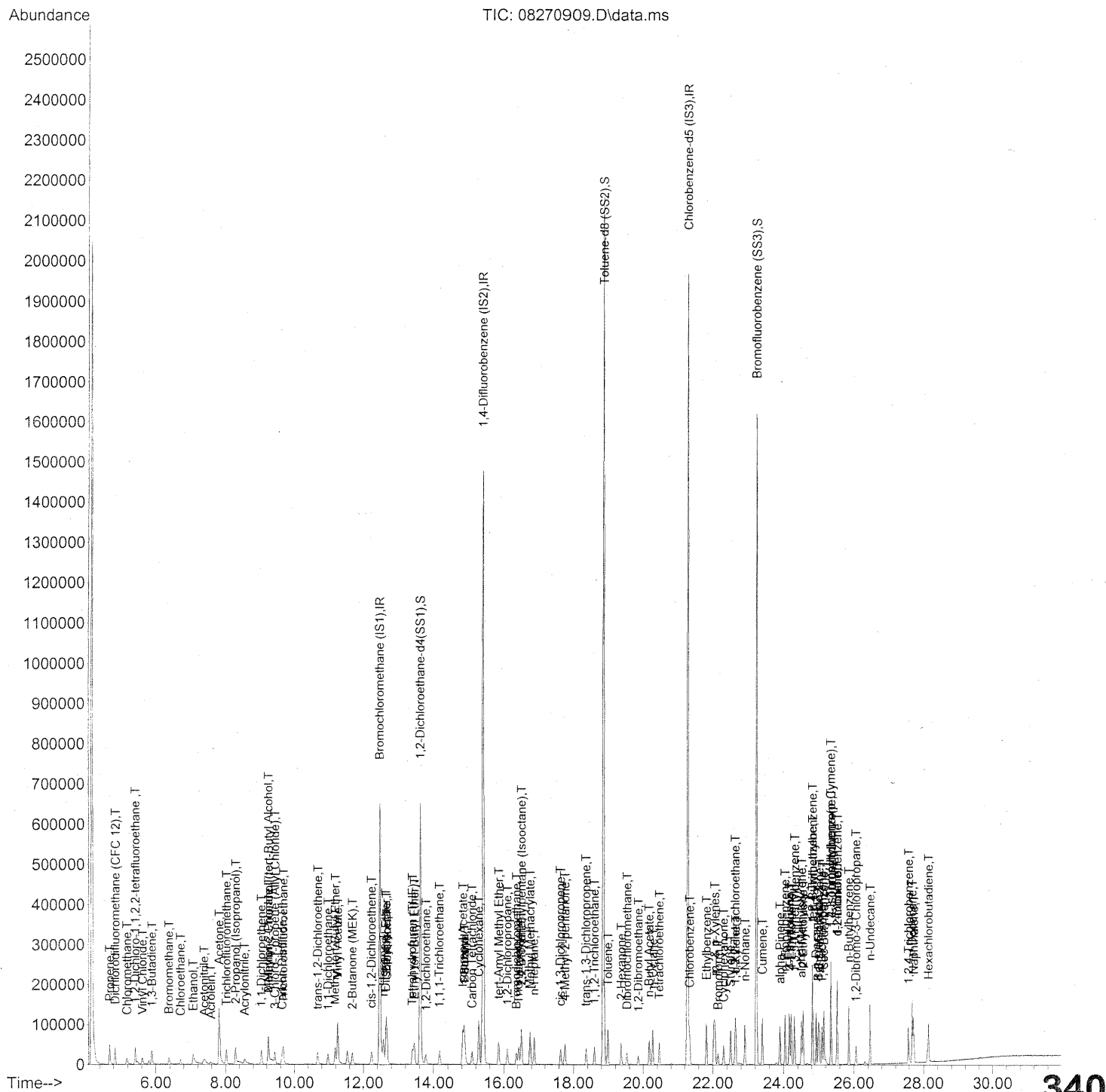
(10) Ethanol (T)
 7.063min (-0.046) 2.80ng m
 response 42023

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	26.62
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
WA/CC 8/28/09
CC
8/28/09
— E 8/31/09

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270909.D
Acq On : 27 Aug 2009 17:32
Operator : WA/CC
Sample : 1.0ng TO-15 ICAL
Misc : S20-08140906/S20-07310904
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:46:43 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270909.D
 Acq On : 27 Aug 2009 17:32
 Operator : WA/CC
 Sample : 1.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:46:43 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

WA 8/28/09
CE
8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	338113	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.41	114	1695008	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	819143	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.62	65	678685	23.094	ng	-0.02
Spiked Amount	25.000		Recovery	=	92.36%	
57) Toluene-d8 (SS2)	18.85	98	1826536	25.519	ng	0.00
Spiked Amount	25.000		Recovery	=	102.08%	
73) Bromofluorobenzene (SS3)	23.23	174	525776	27.855	ng	0.00
Spiked Amount	25.000		Recovery	=	111.44%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.69	42	23167	0.998	ng	98
3) Dichlorodifluoromethan...	4.85	85	44225	1.166	ng	100
4) Chloromethane	5.17	50	29046	1.140	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	18594	1.207	ng	99
6) Vinyl Chloride	5.61	62	26423	1.079	ng	96
7) 1,3-Butadiene	5.89	54	22473	1.281	ng	100
8) Bromomethane	6.37	94	16348	1.097	ng	95
9) Chloroethane	6.70	64	13821	0.971	ng	96
10) Ethanol	7.06	45	75189	5.112	ng	99
11) Acetonitrile	7.38	41	39923	0.927	ng	98
12) Acrolein	7.57	56	11566	1.033	ng	86
13) Acetone	7.81	58	80124	5.774	ng	99
14) Trichlorofluoromethane	8.02	101	38449	1.121	ng	97
15) 2-Propanol (Isopropanol)	8.29	45	107175	1.965	ng	98
16) Acrylonitrile	8.55	53	26590	1.060	ng	96
17) 1,1-Dichloroethene	9.03	96	19322	1.214	ng	89
18) 2-Methyl-2-Propanol (t...	9.24	59	102219	2.112	ng	94
19) Methylene Chloride	9.24	84	20286	1.089	ng	96
20) 3-Chloro-1-propene (Al...	9.42	41	30207	0.841	ng	99
21) Trichlorotrifluoroethane	9.67	151	16030	1.286	ng	93
22) Carbon Disulfide	9.64	76	72815	1.108	ng	100
23) trans-1,2-Dichloroethene	10.67	61	29706	1.055	ng	91
24) 1,1-Dichloroethane	10.98	63	35945	1.052	ng	98
25) Methyl tert-Butyl Ether	11.19	73	55919	1.065	ng	99
26) Vinyl Acetate	11.26	86	18783	6.651	ng	# 68
27) 2-Butanone (MEK)	11.68	72	13258	1.058	ng	# 86
28) cis-1,2-Dichloroethene	12.23	61	27982	1.067	ng	87
29) Diisopropyl Ether	12.64	87	19284	1.150	ng	# 22
30) Ethyl Acetate	12.66	61	14245	2.182	ng	100
31) n-Hexane	12.58	57	35385	1.060	ng	98

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270909.D
 Acq On : 27 Aug 2009 17:32
 Operator : WA/CC
 Sample : 1.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:46:43 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.67	83	35077	1.193	ng	98
34) Tetrahydrofuran (THF)	13.39	72	14938	1.118	ng	99
35) Ethyl tert-Butyl Ether	13.44	87	22600	1.042	ng	98
36) 1,2-Dichloroethane	13.79	62	28509	1.061	ng	98
38) 1,1,1-Trichloroethane	14.16	97	31494	1.095	ng	98
39) Isopropyl Acetate	14.83	61	25625	2.038	ng	# 68
40) 1-Butanol	14.88	56	37926	1.724	ng	# 1
41) Benzene	14.87	78	80573	1.081	ng	100
42) Carbon Tetrachloride	15.09	117	27461	1.156	ng	99
43) Cyclohexane	15.29	84	60257	2.208	ng	97
44) tert-Amyl Methyl Ether	15.85	73	59739	1.067	ng	97
45) 1,2-Dichloropropane	16.10	63	20251	1.082	ng	94
46) Bromodichloromethane	16.37	83	26601	1.083	ng	97
47) Trichloroethene	16.43	130	19053	1.134	ng	98
48) 1,4-Dioxane	16.51	88	15853	1.113	ng	88
49) 2,2,4-Trimethylpentane...	16.52	57	91059	1.037	ng	100
50) Methyl Methacrylate	16.76	100	14852	2.165	ng	99
51) n-Heptane	16.87	71	21673	1.084	ng	96
52) cis-1,3-Dichloropropene	17.64	75	30063	0.969	ng	97
53) 4-Methyl-2-pentanone	17.76	58	19029	1.062	ng	96
54) trans-1,3-Dichloropropene	18.35	75	31487	1.068	ng	99
55) 1,1,2-Trichloroethane	18.59	97	17826	1.089	ng	99
58) Toluene	18.98	91	81135	1.153	ng	100
59) 2-Hexanone	19.36	43	49906	1.067	ng	99
60) Dibromochloromethane	19.53	129	20786	1.249	ng	99
61) 1,2-Dibromoethane	19.86	107	20935	1.186	ng	99
62) n-Butyl Acetate	20.17	43	56818	1.031	ng	97
63) n-Octane	20.28	57	18601	1.094	ng	97
64) Tetrachloroethene	20.46	166	19016	1.168	ng	98
65) Chlorobenzene	21.34	112	50799	1.167	ng	99
66) Ethylbenzene	21.82	91	91245	1.135	ng	99
67) m- & p-Xylenes	22.05	91	143956	2.213	ng	98
68) Bromoform	22.14	173	16140	1.168	ng	99
69) Styrene	22.50	104	52062	1.107	ng	99
70) o-Xylene	22.65	91	75012	1.150	ng	98
71) n-Nonane	22.91	43	44250	1.021	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	32737	1.131	ng	92
74) Cumene	23.41	105	91337	1.109	ng	100
75) alpha-Pinene	23.90	93	44882	1.063	ng	99
76) n-Propylbenzene	24.04	91	116128	1.121	ng	99
77) 3-Ethyltoluene	24.17	105	90541	1.150	ng	99
78) 4-Ethyltoluene	24.22	105	90088	1.181	ng	96
79) 1,3,5-Trimethylbenzene	24.31	105	76723	1.192	ng	100

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270909.D
 Acq On : 27 Aug 2009 17:32
 Operator : WA/CC
 Sample : 1.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:46:43 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

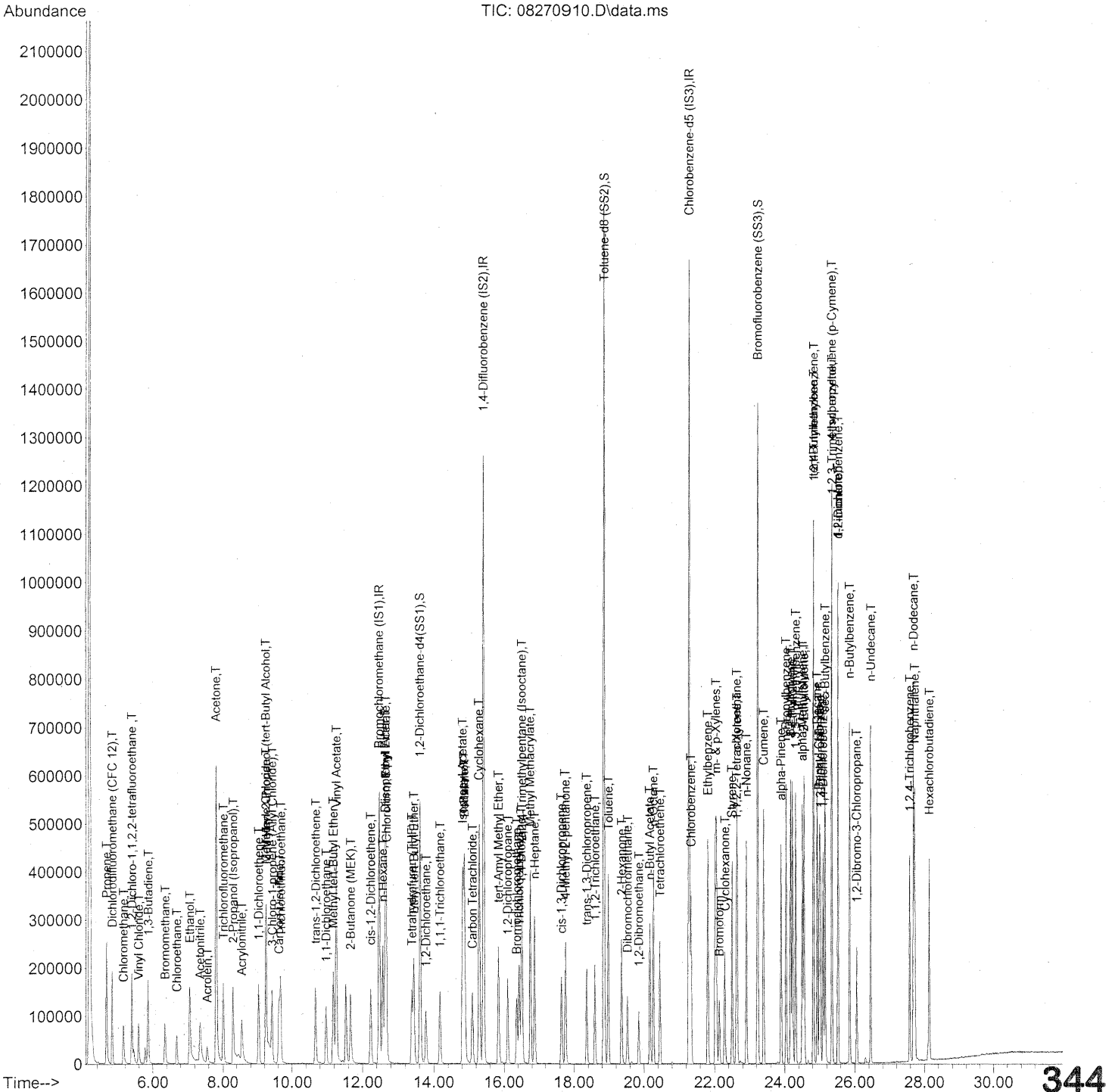
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	37555	1.090	ng	97
81) 2-Ethyltoluene	24.55	105	92466	1.165	ng	100
82) 1,2,4-Trimethylbenzene	24.82	105	75715	1.154	ng	98
83) n-Decane	24.93	57	48044	1.126	ng	99
84) Benzyl Chloride	24.99	91	74822	1.216	ng	99
85) 1,3-Dichlorobenzene	25.02	146	41470	1.249	ng	97
86) 1,4-Dichlorobenzene	25.10	146	41289	1.166	ng	99
87) sec-Butylbenzene	25.15	105	104559	1.180	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	91307	1.155	ng	98
89) 1,2,3-Trimethylbenzene	25.35	105	79842	1.194	ng	99
90) 1,2-Dichlorobenzene	25.53	146	38264	1.215	ng	99
91) d-Limonene	25.53	68	30898	1.107	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.06	157	13048	1.205	ng	95
93) n-Undecane	26.46	57	49930	1.100	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	27886	1.288	ng	99
95) Naphthalene	27.73	128	104048	1.168	ng	99
96) n-Dodecane	27.69	57	52970	1.005	ng	98
97) Hexachlorobutadiene	28.14	225	16329	1.186	ng	97
98) Cyclohexanone	22.30	55	26821	0.920	ng	97
99) tert-Butylbenzene	24.82	119	74545	1.174	ng	98
100) n-Butylbenzene	25.86	91	87925	1.203	ng	99

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270910.D
 Acq On : 27 Aug 2009 18:13
 Operator : WA/CC
 Sample : 5.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:49:17 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270910.D
 Acq On : 27 Aug 2009 18:13
 Operator : WA/CC
 Sample : 5.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

W 8/28/09
 CC
 8/28/09

Quant Time: Aug 28 05:49:17 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) Bromochloromethane (IS1)	12.47	130	285134	25.000	ng	-0.01	
37) 1,4-Difluorobenzene (IS2)	15.41	114	1419665	25.000	ng	-0.01	
56) Chlorobenzene-d5 (IS3)	21.28	82	696006	25.000	ng	0.00	
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...)	13.62	65	562841	22.711	ng	-0.01	
Spiked Amount	25.000		Recovery	=	90.84%		
57) Toluene-d8 (SS2)	18.85	98	1539663	25.317	ng	0.00	
Spiked Amount	25.000		Recovery	=	101.28%		
73) Bromofluorobenzene (SS3)	23.23	174	447453	27.900	ng	0.00	
Spiked Amount	25.000		Recovery	=	111.60%		
Target Compounds							Qvalue
2) Propene	4.67	42	120348	6.151	ng		97
3) Dichlorodifluoromethan...	4.84	85	193597	6.054	ng		100
4) Chloromethane	5.16	50	121026	5.633	ng		100
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	81300	6.257	ng		98
6) Vinyl Chloride	5.59	62	119297	5.779	ng		99
7) 1,3-Butadiene	5.87	54	104125	7.037	ng		98
8) Bromomethane	6.35	94	79946	6.362	ng		97
9) Chloroethane	6.69	64	66514	5.543	ng		100
10) Ethanol	7.06	45	344709	27.793	ng		100
11) Acetonitrile	7.35	41	186705	5.140	ng		98
12) Acrolein	7.55	56	54908	5.816	ng		99
13) Acetone	7.81	58	353050	30.169	ng		99
14) Trichlorofluoromethane	8.01	101	176237	6.095	ng		98
15) 2-Propanol (Isopropanol)	8.29	45	379930	8.262	ng		94
16) Acrylonitrile	8.54	53	126729	5.993	ng		97
17) 1,1-Dichloroethene	9.03	96	86179	6.419	ng		93
18) 2-Methyl-2-Propanol (t...	9.24	59	460734	11.287	ng		99
19) Methylene Chloride	9.23	84	89945	5.723	ng		94
20) 3-Chloro-1-propene (Al...	9.42	41	145675	4.808	ng		98
21) Trichlorotrifluoroethane	9.68	151	69998	6.658	ng		99
22) Carbon Disulfide	9.63	76	331741	5.987	ng		99
23) trans-1,2-Dichloroethene	10.67	61	137375	5.783	ng		93
24) 1,1-Dichloroethane	10.98	63	163088	5.661	ng		100
25) Methyl tert-Butyl Ether	11.18	73	259596	5.863	ng		98
26) Vinyl Acetate	11.27	86	86141	36.171	ng	#	92
27) 2-Butanone (MEK)	11.66	72	64271	6.083	ng		98
28) cis-1,2-Dichloroethene	12.23	61	131673	5.955	ng		92
29) Diisopropyl Ether	12.64	87	88485	6.258	ng	#	23
30) Ethyl Acetate	12.66	61	69155	12.564	ng		97
31) n-Hexane	12.58	57	156515	5.559	ng		100

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270910.D
 Acq On : 27 Aug 2009 18:13
 Operator : WA/CC
 Sample : 5.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:49:17 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	158573	6.397	ng	98
34) Tetrahydrofuran (THF)	13.39	72	62284	5.530	ng	96
35) Ethyl tert-Butyl Ether	13.44	87	100668	5.503	ng	97
36) 1,2-Dichloroethane	13.79	62	127632	5.633	ng	98
38) 1,1,1-Trichloroethane	14.17	97	142224	5.906	ng	98
39) Isopropyl Acetate	14.82	61	120873	11.478	ng	# 72
40) 1-Butanol	14.86	56	183717	9.971	ng	# 1
41) Benzene	14.87	78	360870	5.782	ng	99
42) Carbon Tetrachloride	15.10	117	126837	6.376	ng	98
43) Cyclohexane	15.29	84	273998	11.985	ng	96
44) tert-Amyl Methyl Ether	15.84	73	261147	5.571	ng	99
45) 1,2-Dichloropropane	16.10	63	92071	5.873	ng	99
46) Bromodichloromethane	16.37	83	126412	6.146	ng	100
47) Trichloroethene	16.44	130	89343	6.346	ng	99
48) 1,4-Dioxane	16.50	88	75297	6.312	ng	92
49) 2,2,4-Trimethylpentane...	16.52	57	412337	5.608	ng	99
50) Methyl Methacrylate	16.76	100	72721	12.656	ng	97
51) n-Heptane	16.88	71	98223	5.864	ng	96
52) cis-1,3-Dichloropropene	17.65	75	142422	5.482	ng	100
53) 4-Methyl-2-pentanone	17.75	58	89269	5.951	ng	99
54) trans-1,3-Dichloropropene	18.36	75	151819	6.146	ng	99
55) 1,1,2-Trichloroethane	18.60	97	85346	6.228	ng	100
58) Toluene	18.98	91	374000	6.257	ng	100
59) 2-Hexanone	19.36	43	229766	5.781	ng	98
60) Dibromochloromethane	19.53	129	99312	7.023	ng	98
61) 1,2-Dibromoethane	19.86	107	96822	6.458	ng	100
62) n-Butyl Acetate	20.17	43	265155	5.660	ng	98
63) n-Octane	20.27	57	83701	5.793	ng	96
64) Tetrachloroethene	20.46	166	89713	6.486	ng	99
65) Chlorobenzene	21.34	112	236912	6.407	ng	99
66) Ethylbenzene	21.82	91	426544	6.243	ng	98
67) m- & p-Xylenes	22.05	91	664427	12.022	ng	100
68) Bromoform	22.14	173	77570	6.606	ng	99
69) Styrene	22.50	104	255399	6.393	ng	98
70) o-Xylene	22.65	91	345400	6.233	ng	99
71) n-Nonane	22.91	43	204226	5.547	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	158108	6.429	ng	98
74) Cumene	23.41	105	419995	6.000	ng	99
75) alpha-Pinene	23.90	93	210281	5.861	ng	99
76) n-Propylbenzene	24.04	91	543860	6.181	ng	99
77) 3-Ethyltoluene	24.17	105	424375	6.344	ng	98
78) 4-Ethyltoluene	24.22	105	424689	6.552	ng	100
79) 1,3,5-Trimethylbenzene	24.31	105	351291	6.426	ng	100

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270910.D
 Acq On : 27 Aug 2009 18:13
 Operator : WA/CC
 Sample : 5.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:49:17 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

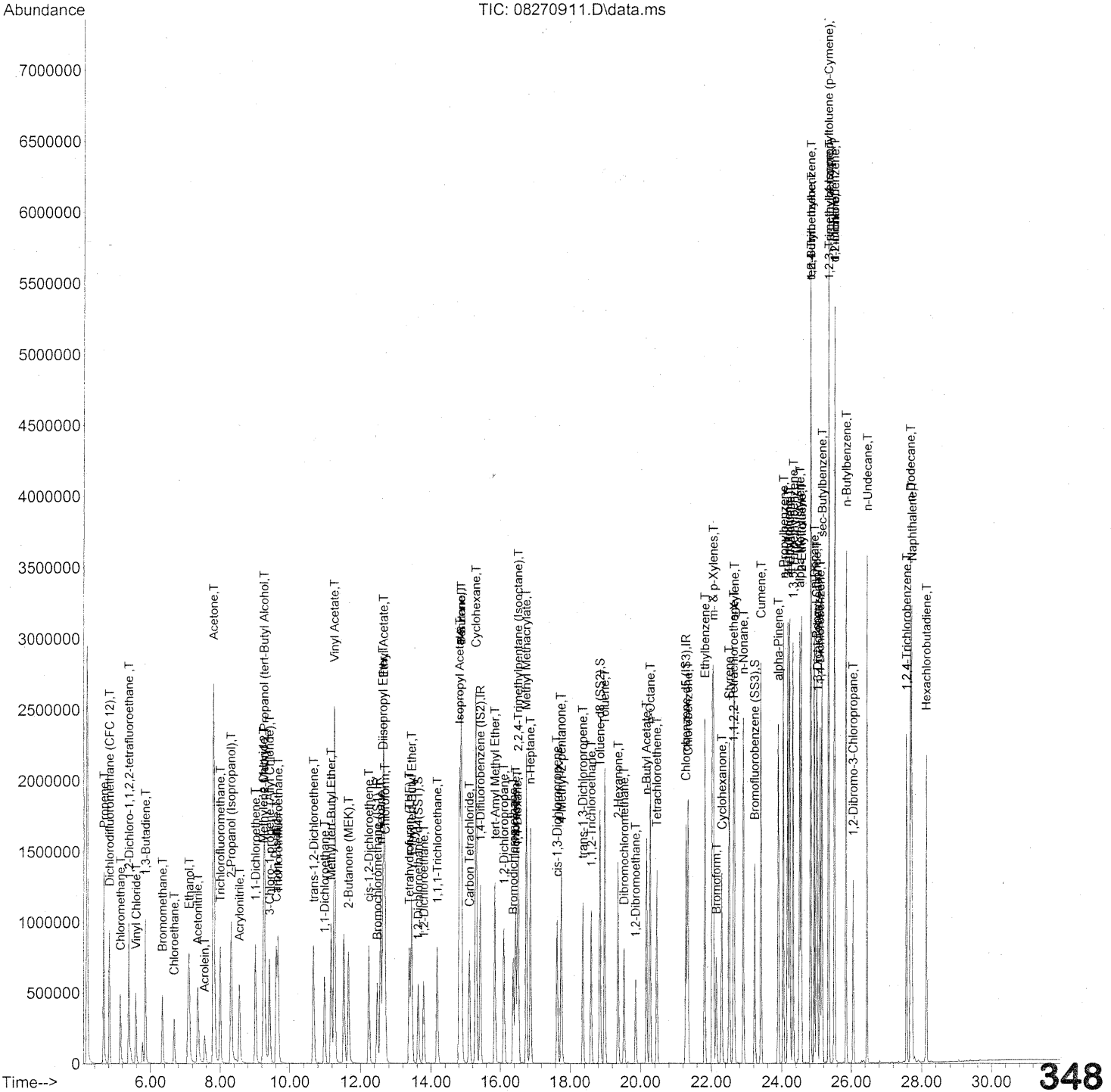
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	187722	6.414	ng	98
81) 2-Ethyltoluene	24.55	105	422733	6.266	ng	100
82) 1,2,4-Trimethylbenzene	24.83	105	355483	6.376	ng	98
83) n-Decane	24.93	57	216013	5.959	ng	97
84) Benzyl Chloride	24.99	91	361430	6.916	ng	100
85) 1,3-Dichlorobenzene	25.02	146	186769	6.619	ng	99
86) 1,4-Dichlorobenzene	25.10	146	191016	6.349	ng	100
87) sec-Butylbenzene	25.16	105	482316	6.404	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	433059	6.448	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	371622	6.543	ng	100
90) 1,2-Dichlorobenzene	25.53	146	179979	6.728	ng	99
91) d-Limonene	25.53	68	149598	6.310	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.06	157	66848	7.265	ng	97
93) n-Undecane	26.46	57	234884	6.091	ng	99
94) 1,2,4-Trichlorobenzene	27.58	180	136765	7.435	ng	99
95) Naphthalene	27.72	128	498226	6.580	ng	99
96) n-Dodecane	27.69	57	246891	5.511	ng	98
97) Hexachlorobutadiene	28.14	225	77742	6.645	ng	99
98) Cyclohexanone	22.30	55	129078	5.213	ng	97
99) tert-Butylbenzene	24.82	119	343094	6.358	ng	99
100) n-Butylbenzene	25.86	91	416303	6.704	ng	99

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270911.D
Acq On : 27 Aug 2009 18:53
Operator : WA/CC
Sample : 25ng TO-15 ICAL
Misc : S20-08140906/S20-08240903
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:51:53 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270911.D
 Acq On : 27 Aug 2009 18:53
 Operator : WA/CC
 Sample : 25ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:51:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

17 8/28/09
cc 8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	284501	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1447280	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	702211	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	570397	23.067	ng	0.00
Spiked Amount	25.000		Recovery	=	92.28%	
57) Toluene-d8 (SS2)	18.85	98	1567824	25.552	ng	0.00
Spiked Amount	25.000		Recovery	=	102.20%	
73) Bromofluorobenzene (SS3)	23.23	174	454480	28.088	ng	0.00
Spiked Amount	25.000		Recovery	=	112.36%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	588172	30.127	ng	99
3) Dichlorodifluoromethan...	4.82	85	955071	29.931	ng	99
4) Chloromethane	5.14	50	669890	31.246	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	417184	32.179	ng	99
6) Vinyl Chloride	5.59	62	625558	30.370	ng	98
7) 1,3-Butadiene	5.86	54	570533	38.645	ng	99
8) Bromomethane	6.35	94	424003	33.816	ng	97
9) Chloroethane	6.69	64	348508	29.110	ng	98
10) Ethanol	7.11	45	1816351	146.775	ng	99
11) Acetonitrile	7.36	41	978031	26.986	ng	99
12) Acrolein	7.55	56	301988	32.058	ng	99
13) Acetone	7.82	58	1809667	154.985	ng	97
14) Trichlorofluoromethane	8.01	101	920207	31.898	ng	97
15) 2-Propanol (Isopropanol)	8.32	45	2169597	47.283	ng	100
16) Acrylonitrile	8.55	53	688506	32.634	ng	98
17) 1,1-Dichloroethene	9.02	96	462130	34.499	ng	93
18) 2-Methyl-2-Propanol (t...	9.27	59	2503952	61.479	ng	99
19) Methylene Chloride	9.25	84	470180	29.985	ng	96
20) 3-Chloro-1-propene (Al...	9.43	41	781914	25.867	ng	98
21) Trichlorotrifluoroethane	9.67	151	385242	36.727	ng	96
22) Carbon Disulfide	9.62	76	1769730	32.011	ng	99
23) trans-1,2-Dichloroethene	10.68	61	738419	31.154	ng	94
24) 1,1-Dichloroethane	10.99	63	874410	30.422	ng	99
25) Methyl tert-Butyl Ether	11.18	73	1433827	32.454	ng	98
26) Vinyl Acetate	11.27	86	502228	211.357	ng	99
27) 2-Butanone (MEK)	11.67	72	351618	33.352	ng	96
28) cis-1,2-Dichloroethene	12.24	61	705526	31.978	ng	91
29) Diisopropyl Ether	12.64	87	478190	33.893	ng	# 21
30) Ethyl Acetate	12.67	61	368666	67.126	ng	98
31) n-Hexane	12.58	57	835198	29.727	ng	98

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270911.D
 Acq On : 27 Aug 2009 18:53
 Operator : WA/CC
 Sample : 25ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:51:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	837403	33.855	ng	97
34) Tetrahydrofuran (THF)	13.38	72	337216	30.007	ng	95
35) Ethyl tert-Butyl Ether	13.45	87	550620	30.168	ng	95
36) 1,2-Dichloroethane	13.80	62	686367	30.362	ng	99
38) 1,1,1-Trichloroethane	14.18	97	775212	31.576	ng	99
39) Isopropyl Acetate	14.83	61	655653	61.070	ng #	74
40) 1-Butanol	14.88	56	1045668	55.670	ng #	63
41) Benzene	14.88	78	1874167	29.454	ng	100
42) Carbon Tetrachloride	15.11	117	698778	34.456	ng	100
43) Cyclohexane	15.30	84	1485423	63.735	ng	95
44) tert-Amyl Methyl Ether	15.85	73	1383659	28.956	ng	98
45) 1,2-Dichloropropane	16.11	63	492324	30.807	ng	99
46) Bromodichloromethane	16.37	83	692441	33.022	ng	99
47) Trichloroethene	16.44	130	495591	34.531	ng	99
48) 1,4-Dioxane	16.50	88	409598	33.682	ng	93
49) 2,2,4-Trimethylpentane...	16.52	57	2183614	29.134	ng	99
50) Methyl Methacrylate	16.76	100	401830	68.598	ng	95
51) n-Heptane	16.88	71	521007	30.509	ng	97
52) cis-1,3-Dichloropropene	17.65	75	788158	29.758	ng	100
53) 4-Methyl-2-pentanone	17.76	58	495183	32.380	ng	99
54) trans-1,3-Dichloropropene	18.36	75	830905	32.995	ng	100
55) 1,1,2-Trichloroethane	18.60	97	455804	32.625	ng	99
58) Toluene	18.98	91	1976690	32.780	ng	100
59) 2-Hexanone	19.36	43	1280900	31.943	ng	97
60) Dibromochloromethane	19.53	129	565906	39.665	ng	100
61) 1,2-Dibromoethane	19.86	107	536115	35.443	ng	99
62) n-Butyl Acetate	20.17	43	1478795	31.288	ng	99
63) n-Octane	20.28	57	450511	30.902	ng	98
64) Tetrachloroethene	20.46	166	483543	34.652	ng	100
65) Chlorobenzene	21.34	112	1280692	34.328	ng	100
66) Ethylbenzene	21.82	91	2274865	33.001	ng	100
67) m- & p-Xylenes	22.06	91	3561506	63.869	ng	100
68) Bromoform	22.15	173	449129	37.913	ng	99
69) Styrene	22.51	104	1403684	34.827	ng	99
70) o-Xylene	22.65	91	1846441	33.026	ng	98
71) n-Nonane	22.91	43	1062700	28.607	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	855281	34.471	ng	99
74) Cumene	23.41	105	2260423	32.007	ng	98
75) alpha-Pinene	23.90	93	1143364	31.584	ng	99
76) n-Propylbenzene	24.05	91	2876713	32.403	ng	99
77) 3-Ethyltoluene	24.17	105	2284898	33.854	ng	99
78) 4-Ethyltoluene	24.23	105	2259500	34.550	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	1894001	34.339	ng	99

350

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270911.D
 Acq On : 27 Aug 2009 18:53
 Operator : WA/CC
 Sample : 25ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:51:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

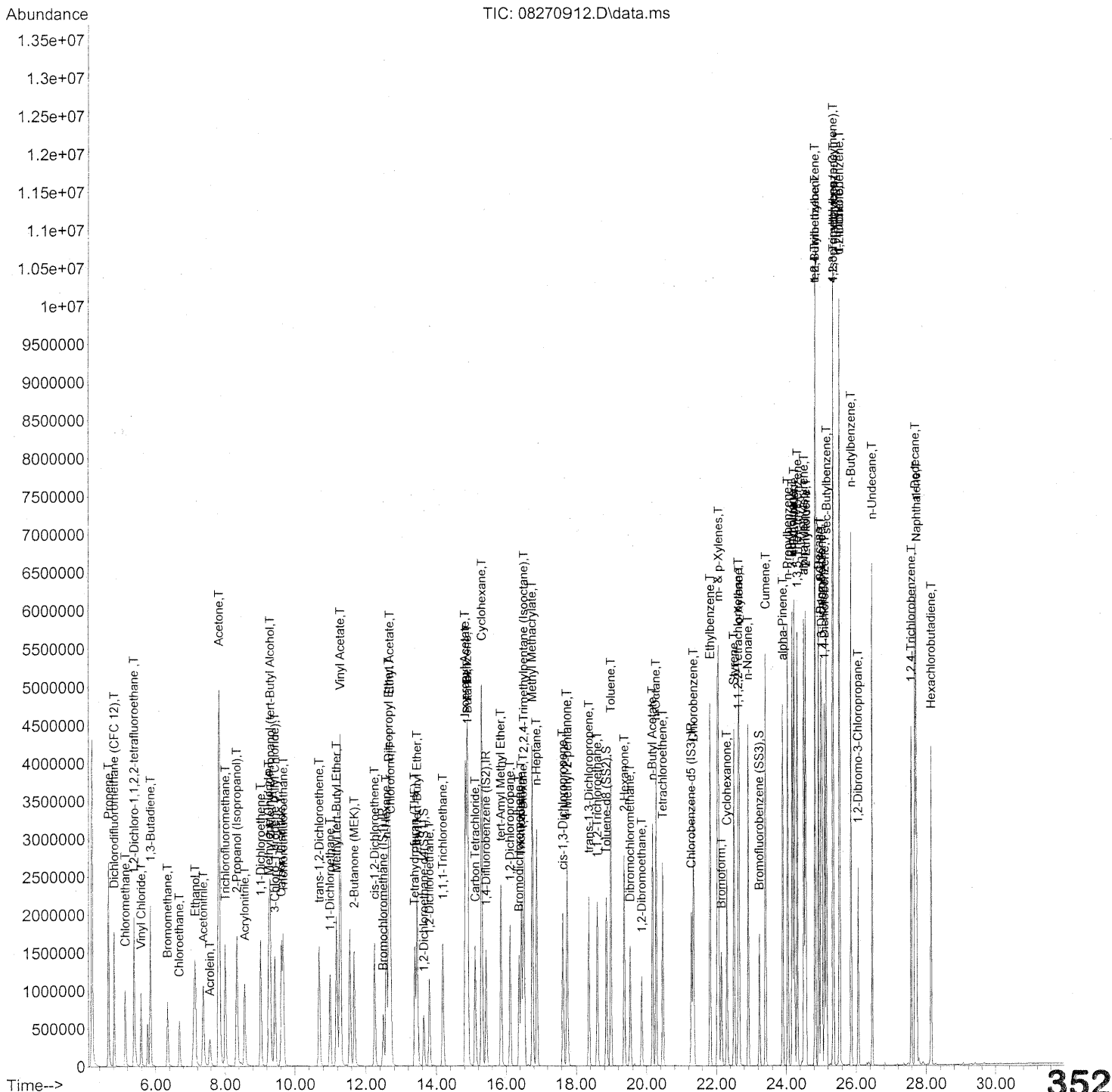
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1054165	35.698	ng	99
81) 2-Ethyltoluene	24.56	105	2259196	33.194	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1897450	33.733	ng	98
83) n-Decane	24.93	57	1120197	30.630	ng	97
84) Benzyl Chloride	25.00	91	1962770	37.225	ng	99
85) 1,3-Dichlorobenzene	25.03	146	1029308	36.157	ng	99
86) 1,4-Dichlorobenzene	25.11	146	1057372	34.835	ng	99
87) sec-Butylbenzene	25.16	105	2566383	33.774	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	2290126	33.799	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	1952841	34.080	ng	99
90) 1,2-Dichlorobenzene	25.53	146	957838	35.488	ng	99
91) d-Limonene	25.53	68	817753	34.188	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	385331	41.509	ng	93
93) n-Undecane	26.46	57	1206152	31.000	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	752993	40.576	ng	99
95) Naphthalene	27.73	128	2740834	35.879	ng	100
96) n-Dodecane	27.69	57	1216284	26.908	ng	98
97) Hexachlorobutadiene	28.14	225	412785	34.972	ng	99
98) Cyclohexanone	22.30	55	734000	29.379	ng	97
99) tert-Butylbenzene	24.83	119	1825773	33.538	ng	99
100) n-Butylbenzene	25.86	91	2198104	35.084	ng	99

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270912.D
 Acq On : 27 Aug 2009 19:34
 Operator : WA/CC
 Sample : 50ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:54:59 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270912.D
 Acq On : 27 Aug 2009 19:34
 Operator : WA/CC
 Sample : 50ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:54:59 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

17 8/28/09
CC
8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.50	130	355771	25.000	ng	0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1781908	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	859804	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.64	65	693583	22.430	ng	0.01
Spiked Amount	25.000		Recovery	=	89.72%	
57) Toluene-d8 (SS2)	18.85	98	1926052	25.637	ng	0.00
Spiked Amount	25.000		Recovery	=	102.56%	
73) Bromofluorobenzene (SS3)	23.23	174	552218	27.873	ng	0.00
Spiked Amount	25.000		Recovery	=	111.48%	

Target Compounds

						Qvalue
2) Propene	4.66	42	1154843	47.303	ng	98
3) Dichlorodifluoromethan...	4.82	85	1829151	45.840	ng	99
4) Chloromethane	5.14	50	1341013	50.020	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	827543	51.045	ng	100
6) Vinyl Chloride	5.59	62	1263606	49.058	ng	99
7) 1,3-Butadiene	5.86	54	1118893	60.607	ng	98
8) Bromomethane	6.35	94	762302	48.617	ng	97
9) Chloroethane	6.69	64	687395	45.915	ng	99
10) Ethanol	7.14	45	3546941	229.202	ng	99
11) Acetonitrile	7.38	41	1926551	42.509	ng	99
12) Acrolein	7.57	56	602852	51.177	ng	98
13) Acetone	7.83	58	3428848	234.829	ng	95
14) Trichlorofluoromethane	8.01	101	1794190	49.734	ng	98
15) 2-Propanol (Isopropanol)	8.34	45	3820480	66.582	ng	100
16) Acrylonitrile	8.57	53	1373006	52.042	ng	98
17) 1,1-Dichloroethene	9.03	96	925646	55.259	ng	91
18) 2-Methyl-2-Propanol (t...	9.30	59	4275643	83.949	ng	99
19) Methylene Chloride	9.26	84	928469	47.349	ng	96
20) 3-Chloro-1-propene (Al...	9.43	41	1562507	41.336	ng	97
21) Trichlorotrifluoroethane	9.68	151	770821	58.765	ng	96
22) Carbon Disulfide	9.62	76	3467083	50.150	ng	99
23) trans-1,2-Dichloroethene	10.69	61	1467929	49.525	ng	93
24) 1,1-Dichloroethane	11.00	63	1749311	48.669	ng	99
25) Methyl tert-Butyl Ether	11.18	73	2886625	52.249	ng	98
26) Vinyl Acetate	11.29	86	946195	318.427	ng	# 92
27) 2-Butanone (MEK)	11.68	72	693027	52.566	ng	94
28) cis-1,2-Dichloroethene	12.26	61	1393226	50.498	ng	91
29) Diisopropyl Ether	12.65	87	932693	52.864	ng	# 21
30) Ethyl Acetate	12.68	61	711553	103.604	ng	98
31) n-Hexane	12.58	57	1646711	46.870	ng	95

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270912.D
 Acq On : 27 Aug 2009 19:34
 Operator : WA/CC
 Sample : 50ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:54:59 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	1622626	52.459	ng	97
34) Tetrahydrofuran (THF)	13.38	72	655734	46.661	ng	95
35) Ethyl tert-Butyl Ether	13.46	87	1101754	48.271	ng	94
36) 1,2-Dichloroethane	13.80	62	1347810	47.678	ng	99
38) 1,1,1-Trichloroethane	14.19	97	1521512	50.336	ng	98
39) Isopropyl Acetate	14.83	61	1272599	96.274	ng	# 74
40) 1-Butanol	14.90	56	2061538	89.143	ng	67
41) Benzene	14.88	78	3615292	46.147	ng	100
42) Carbon Tetrachloride	15.11	117	1389295	55.640	ng	99
43) Cyclohexane	15.31	84	2895546	100.908	ng	95
44) tert-Amyl Methyl Ether	15.85	73	2676182	45.487	ng	98
45) 1,2-Dichloropropane	16.12	63	971117	49.355	ng	99
46) Bromodichloromethane	16.38	83	1360838	52.710	ng	100
47) Trichloroethene	16.45	130	991208	56.095	ng	98
48) 1,4-Dioxane	16.51	88	803541	53.668	ng	94
49) 2,2,4-Trimethylpentane...	16.53	57	4218183	45.711	ng	99
50) Methyl Methacrylate	16.77	100	798155	110.668	ng	93
51) n-Heptane	16.89	71	1023757	48.691	ng	97
52) cis-1,3-Dichloropropene	17.65	75	1562664	47.920	ng	100
53) 4-Methyl-2-pentanone	17.76	58	973944	51.726	ng	100
54) trans-1,3-Dichloropropene	18.36	75	1641324	52.936	ng	100
55) 1,1,2-Trichloroethane	18.60	97	908507	52.817	ng	100
58) Toluene	18.99	91	3881275	52.567	ng	99
59) 2-Hexanone	19.37	43	2497284	50.862	ng	97
60) Dibromochloromethane	19.53	129	1128262	64.586	ng	100
61) 1,2-Dibromoethane	19.86	107	1060533	57.262	ng	99
62) n-Butyl Acetate	20.17	43	2940183	50.805	ng	99
63) n-Octane	20.28	57	880352	49.319	ng	98
64) Tetrachloroethene	20.47	166	970560	56.805	ng	100
65) Chlorobenzene	21.34	112	2525081	55.277	ng	100
66) Ethylbenzene	21.82	91	4407676	52.222	ng	100
67) m- & p-Xylenes	22.06	91	6851193	100.345	ng	98
68) Bromoform	22.15	173	911971	62.873	ng	99
69) Styrene	22.51	104	2758753	55.902	ng	99
70) o-Xylene	22.66	91	3559961	52.004	ng	98
71) n-Nonane	22.91	43	2047046	45.004	ng	97
72) 1,1,2,2-Tetrachloroethane	22.64	83	1662923	54.738	ng	98
74) Cumene	23.41	105	4397891	50.859	ng	98
75) alpha-Pinene	23.90	93	2250302	50.768	ng	98
76) n-Propylbenzene	24.05	91	5492507	50.528	ng	99
77) 3-Ethyltoluene	24.18	105	4532255	54.843	ng	99
78) 4-Ethyltoluene	24.23	105	4315743	53.896	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	3684738	54.561	ng	98

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270912.D
 Acq On : 27 Aug 2009 19:34
 Operator : WA/CC
 Sample : 50ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

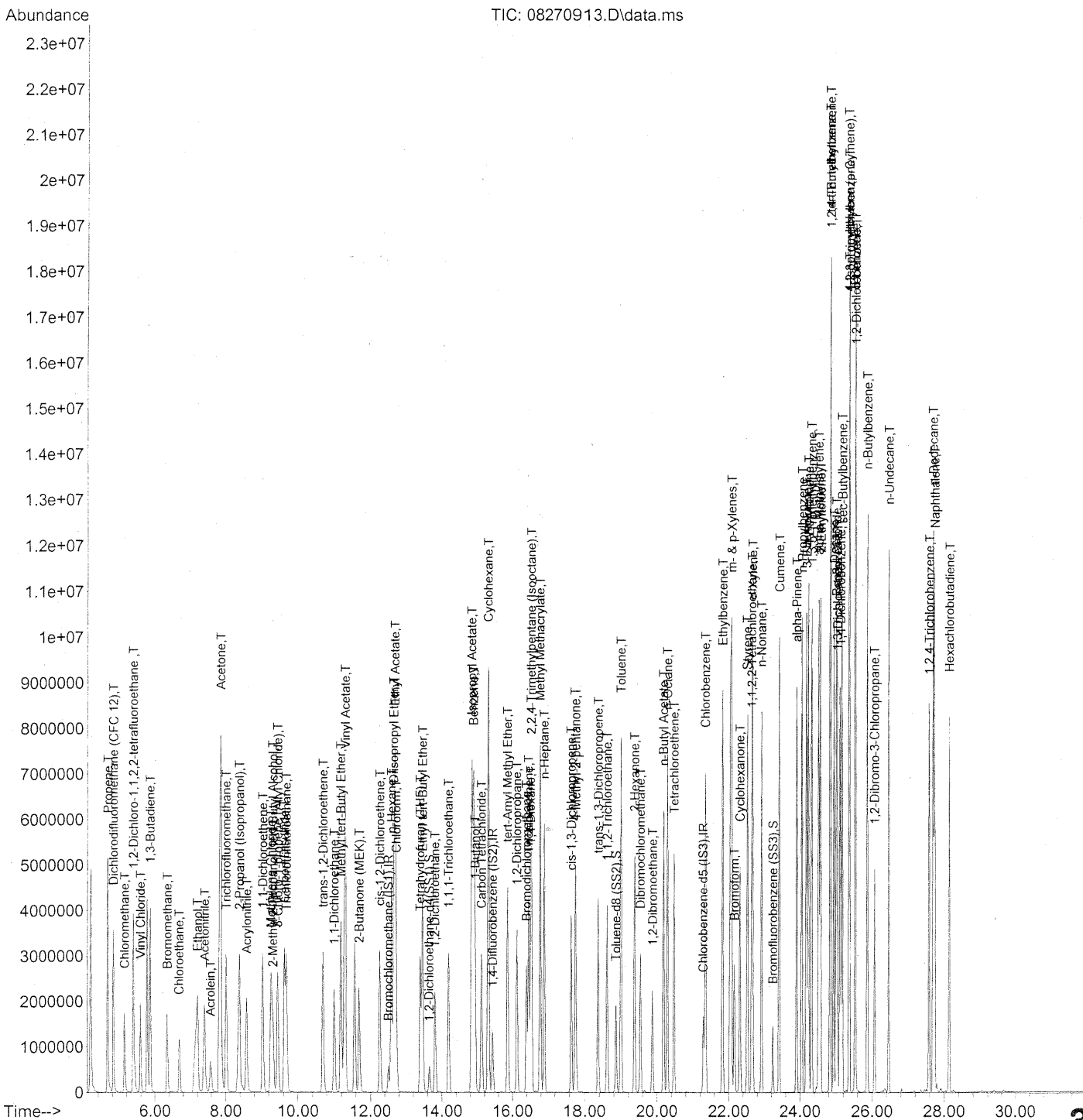
Quant Time: Aug 28 05:54:59 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	2084287	57.646	ng	97
81) 2-Ethyltoluene	24.57	105	4387733	52.651	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	3642429	52.887	ng	98
83) n-Decane	24.94	57	2143395	47.866	ng	97
84) Benzyl Chloride	25.01	91	3798215	58.832	ng	98
85) 1,3-Dichlorobenzene	25.03	146	2036482	58.425	ng	99
86) 1,4-Dichlorobenzene	25.11	146	2091516	56.275	ng	99
87) sec-Butylbenzene	25.17	105	4948380	53.186	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	4364256	52.604	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	3761867	53.617	ng	99
90) 1,2-Dichlorobenzene	25.53	146	1840676	55.698	ng	99
91) d-Limonene	25.53	68	1581281	53.991	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	769261	67.679	ng	92
93) n-Undecane	26.46	57	2305390	48.392	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	1487407	65.460	ng	99
95) Naphthalene	27.73	128	5330264	56.987	ng	99
96) n-Dodecane	27.70	57	2340297	42.285	ng	98
97) Hexachlorobutadiene	28.15	225	841080	58.197	ng	98
98) Cyclohexanone	22.30	55	1440848	47.101	ng	97
99) tert-Butylbenzene	24.83	119	3502642	52.547	ng	99
100) n-Butylbenzene	25.86	91	4206554	54.834	ng	99

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

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270913.D
Acq On : 27 Aug 2009 20:14
Operator : WA/CC
Sample : 100ng TO-15 ICAL
Misc : S20-08140906/S20-08240903
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:57:18 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270913.D
 Acq On : 27 Aug 2009 20:14
 Operator : WA/CC
 Sample : 100ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

WA 8/28/09
CC
8/28/09

Quant Time: Aug 28 05:57:18 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.50	130	311663	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.44	114	1553790	25.000	ng	0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	732694	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.65	65	593115	21.895	ng	0.02
Spiked Amount	25.000		Recovery	=	87.60%	
57) Toluene-d8 (SS2)	18.86	98	1671107	26.102	ng	0.01
Spiked Amount	25.000		Recovery	=	104.40%	
73) Bromofluorobenzene (SS3)	23.24	174	475967	28.192	ng	0.00
Spiked Amount	25.000		Recovery	=	112.76%	

Target Compounds

						Qvalue
2) Propene	4.66	42	2326189	108.766	ng	97
3) Dichlorodifluoromethan...	4.82	85	3724697	106.555	ng	99
4) Chloromethane	5.14	50	2420894	103.079	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	1687479	118.819	ng	100
6) Vinyl Chloride	5.59	62	2607530	115.561	ng	99
7) 1,3-Butadiene	5.86	54	2287066	141.415	ng	96
8) Bromomethane	6.35	94	1585108	115.400	ng	98
9) Chloroethane	6.69	64	1424960	108.651	ng	99
10) Ethanol	7.20	45	6995067	515.990	ng	99
11) Acetonitrile	7.41	41	3916806	98.656	ng	99
12) Acrolein	7.58	56	1217708	118.004	ng	99
13) Acetone	7.86	58	6477329	506.390	ng	90
14) Trichlorofluoromethane	8.01	101	3583787	113.401	ng	98
15) 2-Propanol (Isopropanol)	8.39	45	7406478	147.344	ng	99
16) Acrylonitrile	8.59	53	2762119	119.510	ng	98
17) 1,1-Dichloroethene	9.03	96	1882094	128.259	ng	90
18) 2-Methyl-2-Propanol (t...	9.31	59	2734607	61.291	ng	96
19) Methylene Chloride	9.27	84	1891533	110.115	ng	95
20) 3-Chloro-1-propene (Al...	9.45	41	3110625	93.937	ng	96
21) Trichlorotrifluoroethane	9.68	151	1491940	129.838	ng	96
22) Carbon Disulfide	9.63	76	6827544	112.735	ng	98
23) trans-1,2-Dichloroethene	10.70	61	2912051	112.152	ng	93
24) 1,1-Dichloroethane	11.00	63	3453731	109.687	ng	99
25) Methyl tert-Butyl Ether	11.19	73	5728923	118.372	ng	100
26) Vinyl Acetate	11.31	86	1706291	655.492	ng	# 83
27) 2-Butanone (MEK)	11.69	72	1087900	94.196	ng	95
28) cis-1,2-Dichloroethene	12.26	61	2763573	114.342	ng	92
29) Diisopropyl Ether	12.66	87	1816274	117.515	ng	# 20
30) Ethyl Acetate	12.69	61	1367245	227.249	ng	98
31) n-Hexane	12.59	57	3275520	106.426	ng	98

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270913.D
 Acq On : 27 Aug 2009 20:14
 Operator : WA/CC
 Sample : 100ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:57:18 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.72	83	3156196	116.480	ng	97
34) Tetrahydrofuran (THF)	13.39	72	1286760	104.522	ng	95
35) Ethyl tert-Butyl Ether	13.46	87	2208988	110.480	ng	93
36) 1,2-Dichloroethane	13.81	62	2630401	106.218	ng	99
38) 1,1,1-Trichloroethane	14.19	97	2912642	110.506	ng	98
39) Isopropyl Acetate	14.84	61	2447890	212.375	ng	# 77
40) 1-Butanol	14.93	56	3972016	196.969	ng	# 1
41) Benzene	14.89	78	6912771	101.192	ng	99
42) Carbon Tetrachloride	15.12	117	2738691	125.785	ng	100
43) Cyclohexane	15.31	84	5510317	220.224	ng	96
44) tert-Amyl Methyl Ether	15.86	73	5226701	101.881	ng	98
45) 1,2-Dichloropropane	16.12	63	1925723	112.240	ng	99
46) Bromodichloromethane	16.39	83	2658280	118.081	ng	100
47) Trichloroethene	16.45	130	1969977	127.853	ng	99
48) 1,4-Dioxane	16.51	88	1471701	112.724	ng	92
49) 2,2,4-Trimethylpentane...	16.53	57	7987495	99.265	ng	99
50) Methyl Methacrylate	16.79	100	1531447	243.517	ng	92
51) n-Heptane	16.90	71	1983249	108.174	ng	97
52) cis-1,3-Dichloropropene	17.66	75	3069992	107.965	ng	99
53) 4-Methyl-2-pentanone	17.77	58	1907807	116.200	ng	99
54) trans-1,3-Dichloropropene	18.37	75	3237084	119.731	ng	100
55) 1,1,2-Trichloroethane	18.61	97	1791350	119.431	ng	100
58) Toluene	19.00	91	7452062	118.439	ng	98
59) 2-Hexanone	19.38	43	4826121	115.346	ng	97
60) Dibromochloromethane	19.54	129	2243667	150.717	ng	100
61) 1,2-Dibromoethane	19.88	107	2084762	132.093	ng	99
62) n-Butyl Acetate	20.18	43	5887161	119.376	ng	99
63) n-Octane	20.29	57	1700212	111.773	ng	98
64) Tetrachloroethene	20.48	166	1936105	132.976	ng	100
65) Chlorobenzene	21.35	112	4900652	125.893	ng	99
66) Ethylbenzene	21.83	91	8343663	116.005	ng	98
67) m- & p-Xylenes	22.08	91	12943022	222.454	ng	98
68) Bromoform	22.16	173	1840619	148.910	ng	100
69) Styrene	22.51	104	5350057	127.219	ng	99
70) o-Xylene	22.66	91	6776973	116.172	ng	98
71) n-Nonane	22.92	43	3907701	100.814	ng	97
72) 1,1,2,2-Tetrachloroethane	22.64	83	3188416	123.160	ng	98
74) Cumene	23.42	105	8239238	111.812	ng	97
75) alpha-Pinene	23.90	93	4304829	113.968	ng	99
76) n-Propylbenzene	24.05	91	10014810	108.114	ng	97
77) 3-Ethyltoluene	24.18	105	8539072	121.254	ng	97
78) 4-Ethyltoluene	24.24	105	7983793	116.999	ng	96
79) 1,3,5-Trimethylbenzene	24.33	105	6981938	121.318	ng	97

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270913.D
 Acq On : 27 Aug 2009 20:14
 Operator : WA/CC
 Sample : 100ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:57:18 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

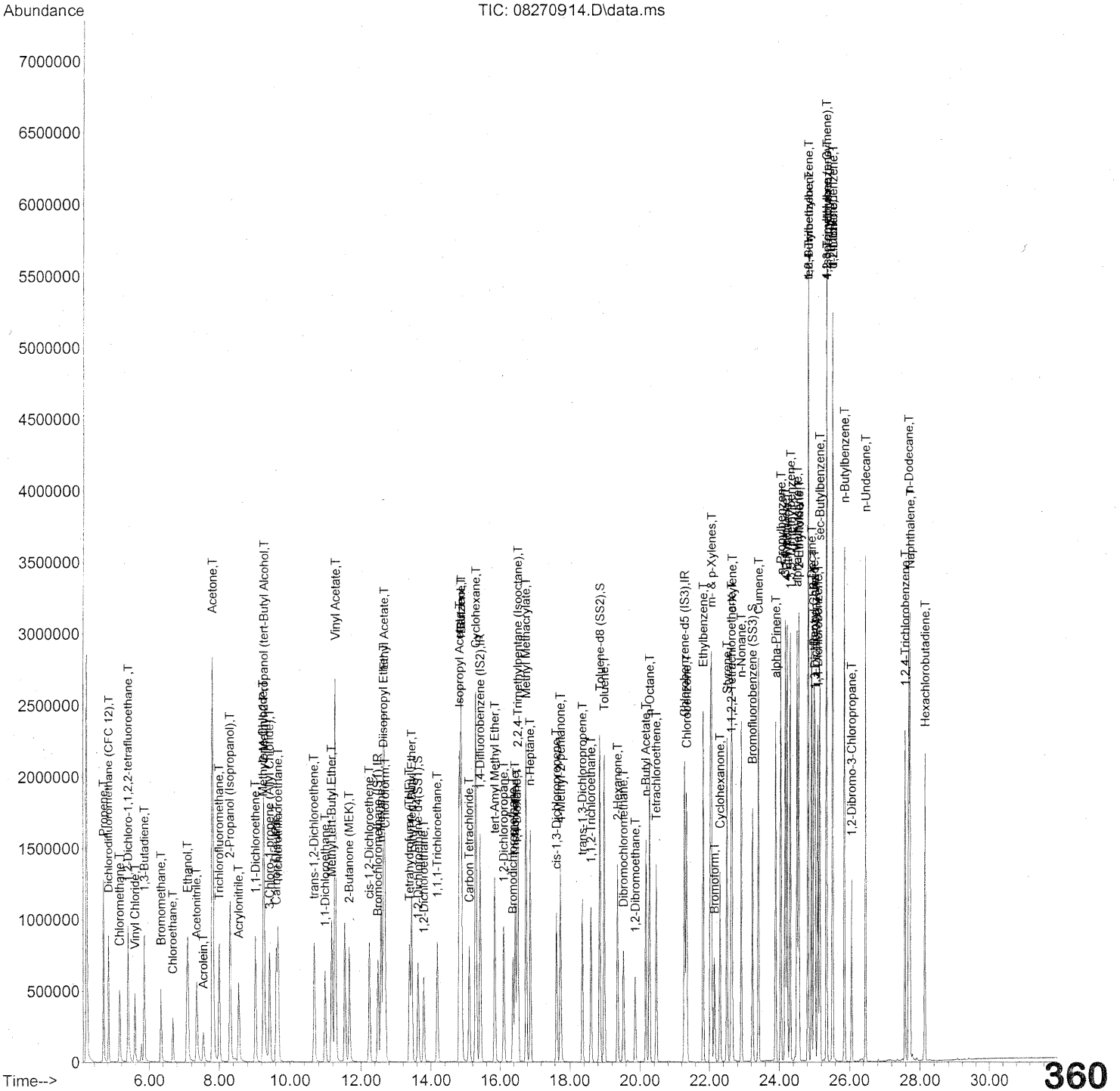
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	4021141	130.507	ng	96
81) 2-Ethyltoluene	24.57	105	8211566	115.630	ng	97
82) 1,2,4-Trimethylbenzene	24.85	105	6692639	114.032	ng	99
83) n-Decane	24.94	57	4009152	105.064	ng	97
84) Benzyl Chloride	25.01	91	7118793	129.396	ng	97
85) 1,3-Dichlorobenzene	25.04	146	3898330	131.243	ng	100
86) 1,4-Dichlorobenzene	25.12	146	4048576	127.830	ng	100
87) sec-Butylbenzene	25.17	105	8997095	113.478	ng	96
88) 4-Isopropyltoluene (p-...	25.36	119	7694114	108.829	ng	97
89) 1,2,3-Trimethylbenzene	25.37	105	6891760	115.267	ng	100
90) 1,2-Dichlorobenzene	25.54	146	3370540	119.685	ng	99
91) d-Limonene	25.53	68	2947196	118.087	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.07	157	1512954	156.201	ng	91
93) n-Undecane	26.46	57	4239249	104.422	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	2929211	151.276	ng	99
95) Naphthalene	27.74	128	9699377	121.689	ng	97
96) n-Dodecane	27.70	57	4261114	90.347	ng	97
97) Hexachlorobutadiene	28.15	225	1670676	135.654	ng	100
98) Cyclohexanone	22.32	55	2812159	107.877	ng	96
99) tert-Butylbenzene	24.84	119	6415247	112.939	ng	100
100) n-Butylbenzene	25.87	91	7689787	117.629	ng	97

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270914.D
 Acq On : 27 Aug 2009 20:55
 Operator : WA/CC
 Sample : 25ng TO-15 ICV
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 06:10:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270914.D
 Acq On : 27 Aug 2009 20:55
 Operator : WA/CC
 Sample : 25ng TO-15 ICV
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 06:10:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

WA 8/28/09
CC 8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	364302	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1834071	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	881559	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	703826	24.380	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.52%	
57) Toluene-d8 (SS2)	18.85	98	1980062	25.133	ng	0.00
Spiked Amount	25.000		Recovery	=	100.52%	
73) Bromofluorobenzene (SS3)	23.23	174	574418	25.333	ng	0.00
Spiked Amount	25.000		Recovery	=	101.32%	

Target Compounds

						Qvalue
2) Propene	4.66	42	558232	21.184	ng	99
3) Dichlorodifluoromethan...	4.83	85	906131	19.640	ng	99
4) Chloromethane	5.14	50	696859	22.470	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	416752	21.872	ng	100
6) Vinyl Chloride	5.59	62	636166	21.868	ng	99
7) 1,3-Butadiene	5.86	54	508308	23.430	ng	98
8) Bromomethane	6.35	94	454619	25.282	ng	98
9) Chloroethane	6.68	64	354543	22.263	ng	98
10) Ethanol	7.10	45	1896077	116.037	ng	100
11) Acetonitrile	7.36	41	972767	21.433	ng	98
12) Acrolein	7.55	56	304856	24.434	ng	98
13) Acetone	7.81	58	1814954	107.402	ng	96
14) Trichlorofluoromethane	8.01	101	892864	21.957	ng	98
15) 2-Propanol (Isopropanol)	8.31	45	2279239	40.571	ng	100
16) Acrylonitrile	8.55	53	688583	24.684	ng	98
17) 1,1-Dichloroethene	9.03	96	481988	24.435	ng	90
18) 2-Methyl-2-Propanol (t...	9.27	59	2577274	45.814	ng	99
19) Methylene Chloride	9.25	84	478398	22.320	ng	95
20) 3-Chloro-1-propene (Al...	9.42	41	801415	24.025	ng	97
21) Trichlorotrifluoroethane	9.67	151	407404	25.301	ng	94
22) Carbon Disulfide	9.62	76	1736171	22.767	ng	98
23) trans-1,2-Dichloroethene	10.68	61	727009	23.711	ng	92
24) 1,1-Dichloroethane	10.99	63	891842	23.256	ng	100
25) Methyl tert-Butyl Ether	11.18	73	1422449	23.483	ng	100
26) Vinyl Acetate	11.28	86	529835	125.114	ng	98
27) 2-Butanone (MEK)	11.67	72	350226	25.658	ng	96
28) cis-1,2-Dichloroethene	12.24	61	711709	24.405	ng	91
29) Diisopropyl Ether	12.64	87	487987	24.483	ng	# 20
30) Ethyl Acetate	12.67	61	362042	49.357	ng	95
31) n-Hexane	12.58	57	817863	22.383	ng	95

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270914.D
 Acq On : 27 Aug 2009 20:55
 Operator : WA/CC
 Sample : 25ng TO-15 ICV
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 06:10:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	845298	23.468	ng	97
34) Tetrahydrofuran (THF)	13.38	72	337115	22.773	ng	95
35) Ethyl tert-Butyl Ether	13.45	87	554493	22.676	ng	94
36) 1,2-Dichloroethane	13.80	62	691810	22.893	ng	99
38) 1,1,1-Trichloroethane	14.18	97	775866	22.884	ng	97
39) Isopropyl Acetate	14.83	61	661174	47.393	ng	# 71
40) 1-Butanol	14.87	56	1067569	46.764	ng	# 1
41) Benzene	14.88	78	1924768	22.324	ng	100
42) Carbon Tetrachloride	15.11	117	700366	24.197	ng	100
43) Cyclohexane	15.30	84	1466800	46.160	ng	95
44) tert-Amyl Methyl Ether	15.85	73	1394562	21.838	ng	98
45) 1,2-Dichloropropane	16.11	63	499496	23.446	ng	98
46) Bromodichloromethane	16.37	83	675550	23.777	ng	100
47) Trichloroethene	16.44	130	510996	24.294	ng	98
48) 1,4-Dioxane	16.50	88	408888	24.676	ng	94
49) 2,2,4-Trimethylpentane...	16.52	57	2191198	22.332	ng	99
50) Methyl Methacrylate	16.76	100	416978	52.179	ng	92
51) n-Heptane	16.88	71	517122	23.141	ng	97
52) cis-1,3-Dichloropropene	17.65	75	796707	22.763	ng	100
53) 4-Methyl-2-pentanone	17.76	58	485301	24.646	ng	99
54) trans-1,3-Dichloropropene	18.36	75	837725	25.269	ng	99
55) 1,1,2-Trichloroethane	18.60	97	460889	22.941	ng	99
58) Toluene	18.98	91	2023334	23.845	ng	99
59) 2-Hexanone	19.36	43	1243953	23.987	ng	97
60) Dibromochloromethane	19.53	129	554007	25.970	ng	99
61) 1,2-Dibromoethane	19.86	107	543305	24.380	ng	99
62) n-Butyl Acetate	20.17	43	1455122	24.458	ng	99
63) n-Octane	20.28	57	451615	23.127	ng	96
64) Tetrachloroethene	20.46	166	499063	23.228	ng	100
65) Chlorobenzene	21.34	112	1303802	23.953	ng	100
66) Ethylbenzene	21.82	91	2304825	23.748	ng	99
67) m- & p-Xylenes	22.06	91	3591413	46.481	ng	99
68) Bromoform	22.15	173	444206	24.049	ng	100
69) Styrene	22.51	104	1413368	24.843	ng	99
70) o-Xylene	22.65	91	1856316	23.919	ng	98
71) n-Nonane	22.91	43	1056471	22.652	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	854190	24.007	ng	97
74) Cumene	23.41	105	2272739	23.105	ng	99
75) alpha-Pinene	23.90	93	1136434	22.273	ng	99
76) n-Propylbenzene	24.05	91	2856293	22.859	ng	99
77) 3-Ethyltoluene	24.17	105	2281470	24.245	ng	99
78) 4-Ethyltoluene	24.23	105	2214131	23.841	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	1909328	24.700	ng	362

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270914.D
 Acq On : 27 Aug 2009 20:55
 Operator : WA/CC
 Sample : 25ng TO-15 ICV
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 06:10:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1053314	25.946	ng	96
81) 2-Ethyltoluene	24.56	105	2253391	23.336	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1903607	24.125	ng	98
83) n-Decane	24.93	57	1110988	23.583	ng	97
84) Benzyl Chloride	25.00	91	1882684	24.099	ng	98
85) 1,3-Dichlorobenzene	25.03	146	1042475	24.444	ng	99
86) 1,4-Dichlorobenzene	25.11	146	1061279	23.895	ng	99
87) sec-Butylbenzene	25.16	105	2551013	23.669	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	2281213	23.482	ng	100
89) 1,2,3-Trimethylbenzene	25.35	105	1936617	23.416	ng	99
90) 1,2-Dichlorobenzene	25.53	146	967026	24.296	ng	99
91) d-Limonene	25.53	68	801027	25.430	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	379682	27.265	ng	92
93) n-Undecane	26.46	57	1199529	24.527	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	753771	26.888	ng	99
95) Naphthalene	27.73	128	2723374	24.973	ng	100
96) n-Dodecane	27.69	57	1252730	22.471	ng	97
97) Hexachlorobutadiene	28.15	225	422597	25.073	ng	100
98) Cyclohexanone	22.30	55	730222	22.320	ng	97
99) tert-Butylbenzene	24.83	119	1819030	23.804	ng	99
100) n-Butylbenzene	25.86	91	2158740	24.566	ng	100

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

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08270914.D

Acq. Method File: TO15.M

Data File Path: J:\MS13\DATA\2009_08\27\

Name: 25ng TO-15 ICV

Operator: WA/CC

Misc Info: S20-08140906/S20-08240912

Date Acquired: 8/27/2009 20:55

Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.66	21.2	26.3	80.6	70	130	*
3)	Dichlorodifluoromethane (CFC)	4.83	19.6	26.0	75.4	70	130	*
4)	Chloromethane	5.14	22.5	25.0	90.0	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro	5.39	21.9	26.0	84.2	70	130	*
6)	Vinyl Chloride	5.59	21.9	25.3	86.6	70	130	*
7)	1,3-Butadiene	5.86	23.4	26.8	87.3	70	130	*
8)	Bromomethane	6.35	25.3	25.8	98.1	70	130	*
9)	Chloroethane	6.68	22.3	25.5	87.5	70	130	*
10)	Ethanol	7.10	116.0	130.0	89.2	70	130	*
11)	Acetonitrile	7.36	21.4	26.0	82.3	70	130	*
12)	Acrolein	7.55	24.4	26.3	92.8	70	130	*
13)	Acetone	7.81	107.4	132.0	81.4	70	130	*
14)	Trichlorofluoromethane	8.01	22.0	26.3	83.7	70	130	*
15)	2-Propanol (Isopropanol)	8.31	40.6	48.0	84.6	70	130	*
16)	Acrylonitrile	8.55	24.7	25.8	95.7	70	130	*
17)	1,1-Dichloroethene	9.03	24.4	27.5	88.7	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.27	45.8	50.0	91.6	70	130	*
19)	Methylene Chloride	9.25	22.3	26.8	83.2	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.42	24.0	27.0	88.9	70	130	*
21)	Trichlorotrifluoroethane	9.67	25.3	27.5	92.0	70	130	*
22)	Carbon Disulfide	9.62	22.8	26.0	87.7	70	130	*
23)	trans-1,2-Dichloroethene	10.68	23.7	25.5	92.9	70	130	*
24)	1,1-Dichloroethane	10.99	23.3	26.5	87.9	70	130	*
25)	Methyl tert-Butyl Ether	11.18	23.5	26.3	89.4	70	130	*
26)	Vinyl Acetate	11.28	125.1	126.0	99.3	70	130	*
27)	2-Butanone (MEK)	11.67	25.7	26.8	95.9	70	130	*
28)	cis-1,2-Dichloroethene	12.24	24.4	27.0	90.4	70	130	*
29)	Diisopropyl Ether	12.64	24.5	26.5	92.5	70	130	*
30)	Ethyl Acetate	12.67	49.4	52.0	95.0	70	130	*
31)	n-Hexane	12.58	22.4	26.0	86.2	70	130	*
32)	Chloroform	12.70	23.5	27.5	85.5	70	130	*
34)	Tetrahydrofuran (THF)	13.38	22.8	26.5	86.0	70	130	*
35)	Ethyl tert-Butyl Ether	13.45	22.7	25.5	89.0	70	130	*
36)	1,2-Dichloroethane	13.80	22.9	26.3	87.1	70	130	*
38)	1,1,1-Trichloroethane	14.18	22.9	26.0	88.1	70	130	*
39)	Isopropyl Acetate	14.83	47.4	52.3	90.6	70	130	*
40)	1-Butanol	14.87	46.8	52.8	88.6	70	130	*
41)	Benzene	14.88	22.3	25.8	86.4	70	130	*
42)	Carbon Tetrachloride	15.11	24.2	26.3	92.0	70	130	*
43)	Cyclohexane	15.30	46.2	51.8	89.2	70	130	*
44)	tert-Amyl Methyl Ether	15.85	21.8	25.5	85.5	70	130	*
45)	1,2-Dichloropropane	16.11	23.4	26.0	90.0	70	130	*
46)	Bromodichloromethane	16.37	23.8	26.3	90.5	70	130	*
47)	Trichloroethene	16.44	24.3	25.8	94.2	70	130	*
48)	1,4-Dioxane	16.50	24.7	26.0	95.0	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.52	22.3	25.8	86.4	70	130	*
50)	Methyl Methacrylate	16.76	52.2	52.8	98.9	70	130	*

WA 8/28/09

CC
8/28/09

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INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08270914.D

Acq. Method File: TO15.M

Data File Path: J:\MS13\DATA\2009_08\27\

Name: 25ng TO-15 ICV

Operator: WA/CC

Misc Info: S20-08140906/S20-08240912

Date Acquired: 8/27/2009 20:55

Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	16.88	23.1	25.8	89.5	70	130	*
52)	cis-1,3-Dichloropropene	17.65	22.8	24.5	93.1	70	130	*
53)	4-Methyl-2-pentanone	17.76	24.6	26.8	91.8	70	130	*
54)	trans-1,3-Dichloropropene	18.36	25.3	27.0	93.7	70	130	*
55)	1,1,2-Trichloroethane	18.60	22.9	26.0	88.1	70	130	*
58)	Toluene	18.98	23.8	26.8	88.8	70	130	*
59)	2-Hexanone	19.36	24.0	27.0	88.9	70	130	*
60)	Dibromochloromethane	19.53	26.0	28.3	91.9	70	130	*
61)	1,2-Dibromoethane	19.86	24.4	26.3	92.8	70	130	*
62)	n-Butyl Acetate	20.17	24.5	27.5	89.1	70	130	*
63)	n-Octane	20.28	23.1	26.3	87.8	70	130	*
64)	Tetrachloroethene	20.46	23.2	25.3	91.7	70	130	*
65)	Chlorobenzene	21.34	24.0	26.5	90.6	70	130	*
66)	Ethylbenzene	21.82	23.7	26.3	90.1	70	130	*
67)	m- & p-Xylenes	22.06	46.5	51.5	90.3	70	130	*
68)	Bromoform	22.15	24.0	26.5	90.6	70	130	*
69)	Styrene	22.51	24.8	26.3	94.3	70	130	*
70)	o-Xylene	22.65	23.9	26.0	91.9	70	130	*
71)	n-Nonane	22.91	22.7	25.8	88.0	70	130	*
72)	1,1,1,2,2-Tetrachloroethane	22.63	24.0	27.0	88.9	70	130	*
74)	Cumene	23.41	23.1	25.3	91.3	70	130	*
75)	alpha-Pinene	23.90	22.3	24.8	89.9	70	130	*
76)	n-Propylbenzene	24.05	22.9	25.3	90.5	70	130	*
77)	3-Ethyltoluene	24.17	24.2	26.3	92.0	70	130	*
78)	4-Ethyltoluene	24.23	23.8	26.3	90.5	70	130	*
79)	1,3,5-Trimethylbenzene	24.32	24.7	26.5	93.2	70	130	*
80)	alpha-Methylstyrene	24.51	25.9	26.0	99.6	70	130	*
81)	2-Ethyltoluene	24.56	23.3	26.0	89.6	70	130	*
82)	1,2,4-Trimethylbenzene	24.83	24.1	25.5	94.5	70	130	*
83)	n-Decane	24.93	23.6	26.3	89.7	70	130	*
84)	Benzyl Chloride	25.00	24.1	26.8	89.9	70	130	*
85)	1,3-Dichlorobenzene	25.03	24.4	26.0	93.8	70	130	*
86)	1,4-Dichlorobenzene	25.11	23.9	26.3	90.9	70	130	*
87)	sec-Butylbenzene	25.16	23.7	25.8	91.9	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.35	23.5	25.0	94.0	70	130	*
89)	1,2,3-Trimethylbenzene	25.35	23.4	26.0	90.0	70	130	*
90)	1,2-Dichlorobenzene	25.53	24.3	25.8	94.2	70	130	*
91)	d-Limonene	25.53	25.4	26.5	95.8	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.06	27.3	27.0	101.1	70	130	*
93)	n-Undecane	26.46	24.5	26.3	93.2	70	130	*
94)	1,2,4-Trichlorobenzene	27.58	26.9	27.3	98.5	70	130	*
95)	Naphthalene	27.73	25.0	25.0	100.0	70	130	*
96)	n-Dodecane	27.69	22.5	24.3	92.6	70	130	*
97)	Hexachlorobutadiene	28.15	25.1	26.8	93.7	70	130	*
98)	Cyclohexanone	22.30	22.3	24.8	89.9	70	130	*
99)	tert-Butylbenzene	24.83	23.8	26.5	89.8	70	130	*
100)	n-Butylbenzene	25.86	24.6	26.5	92.8	70	130	*

* Denotes Passing Criterion

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CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100903.D
 Acq On : 10 Sep 2009 10:17
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903(EM1459-1494)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 16:24:02 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

*09/10/09
 CCV-15-09
 9-10-09*

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	115	-0.02
2	T Propene	1.808	1.660	8.2	99	0.00
3	T Dichlorodifluoromethane (CF	3.166	2.862	9.6	103	0.00
4	T Chloromethane	2.128	2.337	-9.8	114	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.308	1.322	-1.1	110	0.00
6	T Vinyl Chloride	1.996	2.014	-0.9	107	0.00
7	T 1,3-Butadiene	1.489	1.552	-4.2	107	0.00
8	T Bromomethane	1.234	1.396	-13.1	110	0.00
9	T Chloroethane	1.093	1.136	-3.9	108	0.00
10	T Ethanol	1.121	1.167	-4.1	109	-0.09
11	T Acetonitrile	3.115	3.003	3.6	106	-0.04
12	T Acrolein	0.856	0.908	-6.1	106	-0.02
13	T Acetone	1.160	1.092	5.9	109	-0.05
14	T Trichlorofluoromethane	2.791	2.851	-2.1	107	0.00
15	T 2-Propanol (Isopropanol)	3.855	3.942	-2.3	113	-0.07
16	T Acrylonitrile	1.914	2.146	-12.1	108	-0.03
17	T 1,1-Dichloroethene	1.354	1.431	-5.7	111	0.00
18	T 2-Methyl-2-Propanol (tert-B	3.860	4.078	-5.6	108	-0.05
19	T Methylene Chloride	1.471	1.451	1.4	108	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.289	2.423	-5.9	110	-0.02
21	T Trichlorotrifluoroethane	1.105	1.208	-9.3	113	0.00
22	T Carbon Disulfide	5.233	5.414	-3.5	107	0.00
23	T trans-1,2-Dichloroethene	2.104	2.338	-11.1	110	-0.01
24	T 1,1-Dichloroethane	2.632	2.784	-5.8	111	-0.01
25	T Methyl tert-Butyl Ether	4.157	4.419	-6.3	110	-0.02
26	T Vinyl Acetate	0.291	0.372	-27.8	122	-0.03
27	T 2-Butanone (MEK)	0.937	1.082	-15.5	111	-0.03
28	T cis-1,2-Dichloroethene	2.001	2.145	-7.2	109	-0.02
29	T Diisopropyl Ether	1.368	1.528	-11.7	112	-0.02
30	T Ethyl Acetate	0.503	0.578	-14.9	109	-0.03
31	T n-Hexane	2.508	2.574	-2.6	110	0.00
32	T Chloroform	2.472	2.586	-4.6	108	-0.02
33	S 1,2-Dichloroethane-d4 (SS1)	1.981	1.928	2.7	111	-0.02
34	T Tetrahydrofuran (THF)	1.016	1.030	-1.4	110	-0.02
35	T Ethyl tert-Butyl Ether	1.678	1.824	-8.7	112	-0.02
36	T 1,2-Dichloroethane	2.074	2.157	-4.0	109	-0.01
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	112	-0.01
38	T 1,1,1-Trichloroethane	0.462	0.489	-5.8	108	-0.01

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100903.D
 Acq On : 10 Sep 2009 10:17
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903(EM1459-1494)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 16:24:02 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 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	0.190	0.208	-9.5	108	-0.03
40 T	1-Butanol	0.311	0.339	-9.0	109	-0.07
41 T	Benzene	1.175	1.193	-1.5	109	-0.02
42 T	Carbon Tetrachloride	0.395	0.431	-9.1	108	-0.01
43 T	Cyclohexane	0.433	0.469	-8.3	110	-0.01
44 T	tert-Amyl Methyl Ether	0.870	0.927	-6.6	113	-0.02
45 T	1,2-Dichloropropane	0.290	0.313	-7.9	109	-0.02
46 T	Bromodichloromethane	0.387	0.424	-9.6	107	-0.02
47 T	Trichloroethene	0.287	0.323	-12.5	112	-0.01
48 T	1,4-Dioxane	0.226	0.257	-13.7	109	-0.02
49 T	2,2,4-Trimethylpentane (Iso	1.337	1.417	-6.0	110	-0.01
50 T	Methyl Methacrylate	0.109	0.130	-19.3	112	-0.03
51 T	n-Heptane	0.305	0.333	-9.2	110	-0.02
52 T	cis-1,3-Dichloropropene	0.477	0.532	-11.5	109	-0.01
53 T	4-Methyl-2-pentanone	0.268	0.298	-11.2	107	-0.03
54 T	trans-1,3-Dichloropropene	0.452	0.506	-11.9	109	-0.01
55 T	1,1,2-Trichloroethane	0.274	0.295	-7.7	110	-0.02
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	113	0.00
57 S	Toluene-d8 (SS2)	2.234	2.217	0.8	113	0.00
58 T	Toluene	2.406	2.543	-5.7	111	-0.01
59 T	2-Hexanone	1.471	1.548	-5.2	106	-0.03
60 T	Dibromochloromethane	0.605	0.674	-11.4	109	0.00
61 T	1,2-Dibromoethane	0.632	0.690	-9.2	109	-0.01
62 T	n-Butyl Acetate	1.687	1.794	-6.3	106	-0.02
63 T	n-Octane	0.554	0.575	-3.8	109	-0.01
64 T	Tetrachloroethene	0.609	0.670	-10.0	112	-0.01
65 T	Chlorobenzene	1.544	1.642	-6.3	110	0.00
66 T	Ethylbenzene	2.752	2.950	-7.2	109	-0.01
67 T	m- & p-Xylenes	2.191	2.330	-6.3	108	-0.02
68 T	Bromoform	0.524	0.605	-15.5	111	-0.01
69 T	Styrene	1.613	1.809	-12.2	110	0.00
70 T	o-Xylene	2.201	2.371	-7.7	108	-0.01
71 T	n-Nonane	1.323	1.354	-2.3	108	0.00
72 T	1,1,2,2-Tetrachloroethane	1.009	1.069	-5.9	107	-0.01
73 S	Bromofluorobenzene (SS3)	0.643	0.664	-3.3	116	0.00
74 T	Cumene	2.790	3.040	-9.0	110	-0.01
75 T	alpha-Pinene	1.447	1.558	-7.7	110	0.00
76 T	n-Propylbenzene	3.543	3.804	-7.4	109	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100903.D
 Acq On : 10 Sep 2009 10:17
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903(EM1459-1494)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 16:24:02 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 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%

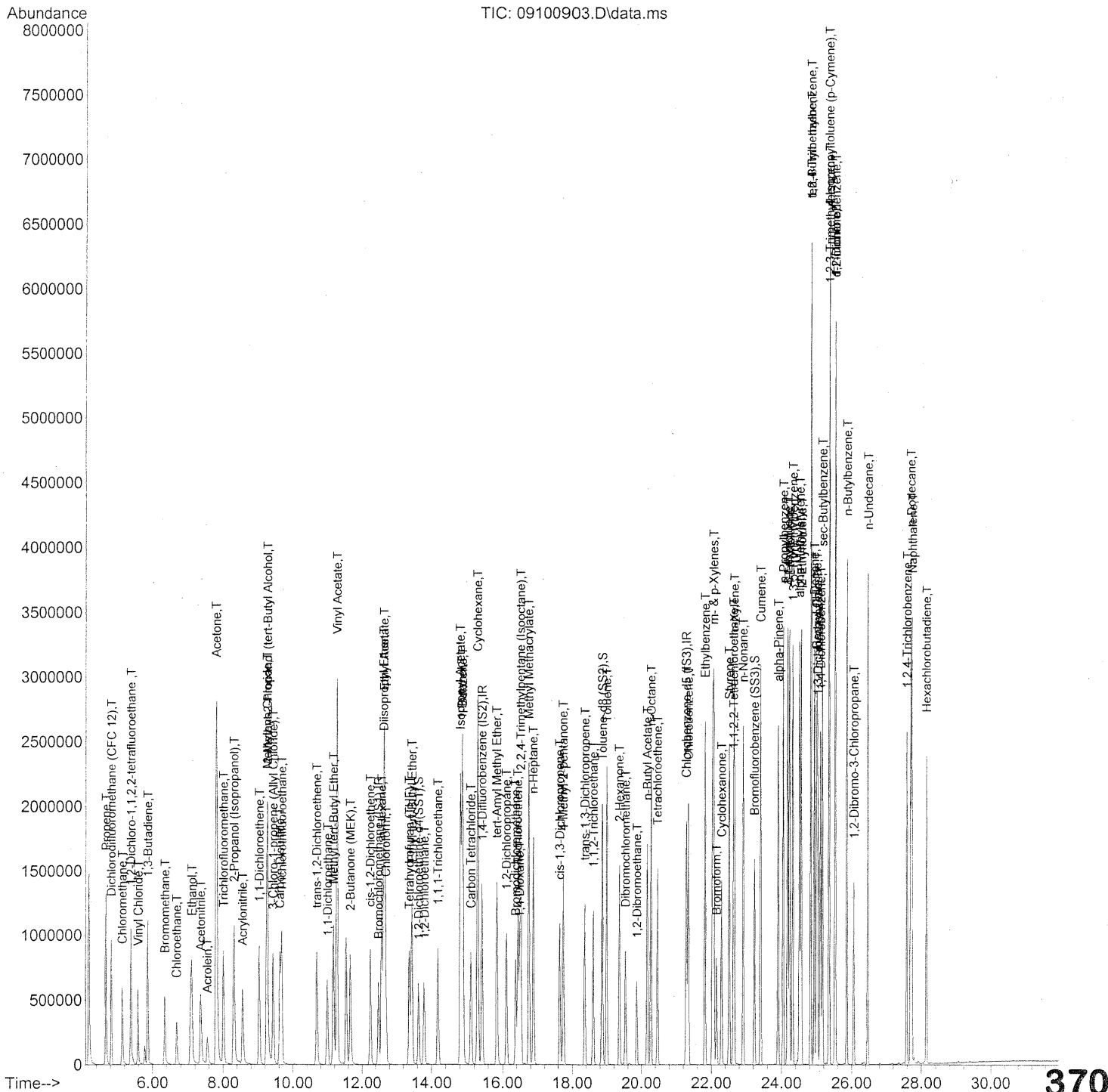
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.669	2.880	-7.9	110	-0.01
78 T	4-Ethyltoluene	2.634	2.849	-8.2	110	-0.01
79 T	1,3,5-Trimethylbenzene	2.192	2.380	-8.6	109	0.00
80 T	alpha-Methylstyrene	1.151	1.354	-17.6	110	-0.01
81 T	2-Ethyltoluene	2.738	2.961	-8.1	110	-0.01
82 T	1,2,4-Trimethylbenzene	2.238	2.455	-9.7	109	-0.02
83 T	n-Decane	1.336	1.402	-4.9	108	-0.01
84 T	Benzyl Chloride	2.215	2.393	-8.0	107	-0.01
85 T	1,3-Dichlorobenzene	1.209	1.302	-7.7	110	-0.01
86 T	1,4-Dichlorobenzene	1.260	1.380	-9.5	110	-0.01
87 T	sec-Butylbenzene	3.057	3.330	-8.9	109	-0.01
88 T	4-Isopropyltoluene (p-Cymen)	2.755	3.049	-10.7	109	-0.01
89 T	1,2,3-Trimethylbenzene	2.345	2.497	-6.5	109	-0.01
90 T	1,2-Dichlorobenzene	1.129	1.248	-10.5	110	-0.02
91 T	d-Limonene	0.893	1.005	-12.5	107	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.395	0.474	-20.0	108	0.00
93 T	n-Undecane	1.387	1.488	-7.3	107	0.00
94 T	1,2,4-Trichlorobenzene	0.795	0.924	-16.2	109	-0.01
95 T	Naphthalene	3.093	3.593	-16.2	111	0.00
96 T	n-Dodecane	1.581	1.627	-2.9	106	0.00
97 T	Hexachlorobutadiene	0.478	0.535	-11.9	113	0.00
98 T	Cyclohexanone	0.928	0.998	-7.5	106	-0.02
99 T	tert-Butylbenzene	2.167	2.375	-9.6	110	-0.01
100 T	n-Butylbenzene	2.492	2.739	-9.9	108	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2009_09\10\
Data File : 09100903.D
Acq On : 10 Sep 2009 10:17
Operator : LM/CC
Sample : 25ng TO-15 CCV STD
Misc : S20-08140906/S20-08240903 (EM1459-1494)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 16:24:02 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100903.D
 Acq On : 10 Sep 2009 10:17
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903 (EM1459-1494)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 16:24:02 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

*(C 9-11-09
 9-10-09
 M 9/10/09*

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	327442	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1622897	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	796019	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	631452	24.335	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.36%	✓
57) Toluene-d8 (SS2)	18.85	98	1764409	24.802	ng	0.00
Spiked Amount	25.000		Recovery	=	99.20%	✓
73) Bromofluorobenzene (SS3)	23.23	174	528320	25.804	ng	0.00
Spiked Amount	25.000		Recovery	=	103.20%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	582674	24.601	ng	99
3) Dichlorodifluoromethan...	4.83	85	985951	23.776	ng	99
4) Chloromethane	5.14	50	765335	27.456	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	458747	26.786	ng	100
6) Vinyl Chloride	5.59	62	667256	25.519	ng	99
7) 1,3-Butadiene	5.86	54	610024	31.284	ng	99
8) Bromomethane	6.35	94	466196	28.845	ng	96
9) Chloroethane	6.69	64	376501	26.303	ng	98
10) Ethanol	7.11	45	1987812	135.345	ng	99
11) Acetonitrile	7.37	41	1034535	25.360	ng	99
12) Acrolein	7.55	56	320988	28.623	ng	98
13) Acetone	7.81	58	1974186	129.976	ng	96
14) Trichlorofluoromethane	8.01	101	982081	26.870	ng	98
15) 2-Propanol (Isopropanol)	8.31	45	2442037	48.362	ng	99
16) Acrylonitrile	8.55	53	744799	29.705	ng	97
17) 1,1-Dichloroethene	9.03	96	515262	29.062	ng	90
18) 2-Methyl-2-Propanol (t...	9.26	59	2697494	53.349	ng	99
19) Methylene Chloride	9.25	84	509160	26.430	ng	97
20) 3-Chloro-1-propene (Al...	9.43	41	856788	28.576	ng	95
21) Trichlorotrifluoroethane	9.68	151	435160	30.067	ng	94
22) Carbon Disulfide	9.62	76	1900404	27.726	ng	98
23) trans-1,2-Dichloroethene	10.68	61	811644	29.452	ng	93
24) 1,1-Dichloroethane	10.99	63	966288	28.034	ng	100
25) Methyl tert-Butyl Ether	11.17	73	1579983	29.020	ng	98
26) Vinyl Acetate	11.27	86	614507	161.442	ng	# 92
27) 2-Butanone (MEK)	11.66	72	389843	31.775	ng	92
28) cis-1,2-Dichloroethene	12.24	61	767025	29.263	ng	91
29) Diisopropyl Ether	12.64	87	536528	29.949	ng	# 40
30) Ethyl Acetate	12.66	61	403383	61.184	ng	98
31) n-Hexane	12.58	57	920344	28.023	ng	98

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Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100903.D
 Acq On : 10 Sep 2009 10:17
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903(EM1459-1494)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 16:24:02 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	907811	28.041	ng	98
34) Tetrahydrofuran (THF)	13.37	72	371147	27.895	ng	94
35) Ethyl tert-Butyl Ether	13.44	87	616362	28.044	ng	91
36) 1,2-Dichloroethane	13.80	62	748700	27.564	ng	99
38) 1,1,1-Trichloroethane	14.18	97	834743	27.824	ng	99
39) Isopropyl Acetate	14.81	61	707062	57.277	ng	# 75
40) 1-Butanol	14.86	56	1138446	56.358	ng	# 1
41) Benzene	14.88	78	2051912	26.896	ng	99
42) Carbon Tetrachloride	15.11	117	755225	29.488	ng	99
43) Cyclohexane	15.30	84	1637291	58.230	ng	94
44) tert-Amyl Methyl Ether	15.84	73	1564836	27.692	ng	97
45) 1,2-Dichloropropane	16.11	63	534242	28.340	ng	99
46) Bromodichloromethane	16.37	83	742410	29.530	ng	100
47) Trichloroethene	16.44	130	555375	29.839	ng	97
48) 1,4-Dioxane	16.49	88	447661	30.531	ng	94
49) 2,2,4-Trimethylpentane...	16.52	57	2392196	27.553	ng	97
50) Methyl Methacrylate	16.76	100	449488	63.567	ng	91
51) n-Heptane	16.88	71	572267	28.940	ng	96
52) cis-1,3-Dichloropropene	17.65	75	857108	27.675	ng	99
53) 4-Methyl-2-pentanone	17.75	58	532248	30.547	ng	98
54) trans-1,3-Dichloropropene	18.36	75	902501	30.765	ng	100
55) 1,1,2-Trichloroethane	18.60	97	503183	28.305	ng	99
58) Toluene	18.98	91	2186168	28.532	ng	99
59) 2-Hexanone	19.35	43	1355083	28.938	ng	96
60) Dibromochloromethane	19.53	129	618114	32.089	ng	99
61) 1,2-Dibromoethane	19.86	107	581818	28.913	ng	98
62) n-Butyl Acetate	20.16	43	1570660	29.237	ng	98
63) n-Octane	20.28	57	490813	27.835	ng	96
64) Tetrachloroethene	20.46	166	543839	28.031	ng	99
65) Chlorobenzene	21.34	112	1411857	28.725	ng	100
66) Ethylbenzene	21.82	91	2488886	28.400	ng	100
67) m- & p-Xylenes	22.06	91	3858594	55.306	ng	98
68) Bromoform	22.15	173	496983	29.798	ng	100
69) Styrene	22.51	104	1543780	30.052	ng	98
70) o-Xylene	22.65	91	2001000	28.554	ng	98
71) n-Nonane	22.91	43	1142602	27.132	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	912602	28.405	ng	98
74) Cumene	23.41	105	2497356	28.117	ng	99
75) alpha-Pinene	23.90	93	1255399	27.249	ng	98
76) n-Propylbenzene	24.05	91	3124870	27.696	ng	99
77) 3-Ethyltoluene	24.17	105	2503020	29.458	ng	99
78) 4-Ethyltoluene	24.23	105	2476141	29.528	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	2068948	29.641	ng	98

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Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100903.D
 Acq On : 10 Sep 2009 10:17
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903(EM1459-1494)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 16:24:02 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1155091	31.511	ng	97
81) 2-Ethyltoluene	24.56	105	2479194	28.434	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	2071813	29.078	ng	98
83) n-Decane	24.93	57	1204944	28.326	ng	97
84) Benzyl Chloride	25.00	91	2095523	29.706	ng	98
85) 1,3-Dichlorobenzene	25.03	146	1131813	29.391	ng	100
86) 1,4-Dichlorobenzene	25.11	146	1164482	29.036	ng	99
87) sec-Butylbenzene	25.16	105	2809542	28.868	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	2504621	28.552	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	2130576	28.529	ng	99
90) 1,2-Dichlorobenzene	25.53	146	1053221	29.306	ng	99
91) d-Limonene	25.53	68	873803	30.721	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.06	157	414747	32.984	ng	93
93) n-Undecane	26.46	57	1293876	29.299	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	823957	32.550	ng	98
95) Naphthalene	27.73	128	3031812	30.789	ng	100
96) n-Dodecane	27.69	57	1284718	25.521	ng	98
97) Hexachlorobutadiene	28.14	225	468195	30.764	ng	99
98) Cyclohexanone	22.29	55	778429	26.350	ng	96
99) tert-Butylbenzene	24.83	119	2003599	29.037	ng	99
100) n-Butylbenzene	25.86	91	2380876	30.006	ng	99

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

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140902.D
 Acq On : 14 Sep 2009 10:25
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 10:58:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

9/15/09
9-15-09

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	119	-0.02
2	T Propene	1.808	1.725	4.6	106	0.00
3	T Dichlorodifluoromethane (CF	3.166	2.730	13.8	101	0.00
4	T Chloromethane	2.128	2.089	1.8	105	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.308	1.185	9.4	102	0.00
6	T Vinyl Chloride	1.996	1.872	6.2	102	0.00
7	T 1,3-Butadiene	1.489	1.446	2.9	103	0.00
8	T Bromomethane	1.234	1.188	3.7	96	0.00
9	T Chloroethane	1.093	1.062	2.8	104	0.00
10	T Ethanol	1.121	1.061	5.4	102	-0.10
11	T Acetonitrile	3.115	2.792	10.4	101	-0.05
12	T Acrolein	0.856	0.848	0.9	102	-0.02
13	T Acetone	1.160	1.011	12.8	104	-0.05
14	T Trichlorofluoromethane	2.791	2.609	6.5	101	0.00
15	T 2-Propanol (Isopropanol)	3.855	3.253	15.6	96	-0.07
16	T Acrylonitrile	1.914	1.987	-3.8	103	-0.03
17	T 1,1-Dichloroethene	1.354	1.295	4.4	104	-0.01
18	T 2-Methyl-2-Propanol (tert-B	3.860	3.712	3.8	101	-0.05
19	T Methylene Chloride	1.471	1.333	9.4	102	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.289	2.206	3.6	103	-0.02
21	T Trichlorotrifluoroethane	1.105	1.082	2.1	104	-0.01
22	T Carbon Disulfide	5.233	4.973	5.0	102	0.00
23	T trans-1,2-Dichloroethene	2.104	2.121	-0.8	103	-0.01
24	T 1,1-Dichloroethane	2.632	2.534	3.7	104	-0.02
25	T Methyl tert-Butyl Ether	4.157	4.065	2.2	104	-0.02
26	T Vinyl Acetate	0.291	0.340	-16.8	115	-0.03
27	T 2-Butanone (MEK)	0.937	0.976	-4.2	103	-0.03
28	T cis-1,2-Dichloroethene	2.001	1.948	2.6	102	-0.02
29	T Diisopropyl Ether	1.368	1.398	-2.2	106	-0.02
30	T Ethyl Acetate	0.503	0.525	-4.4	102	-0.03
31	T n-Hexane	2.508	2.317	7.6	102	0.00
32	T Chloroform	2.472	2.343	5.2	101	-0.02
33	S 1,2-Dichloroethane-d4 (SS1)	1.981	1.935	2.3	114	-0.02
34	T Tetrahydrofuran (THF)	1.016	0.943	7.2	104	-0.03
35	T Ethyl tert-Butyl Ether	1.678	1.651	1.6	104	-0.02
36	T 1,2-Dichloroethane	2.074	1.957	5.6	102	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	117	-0.01
38	T 1,1,1-Trichloroethane	0.462	0.436	5.6	100	-0.01

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140902.D
 Acq On : 14 Sep 2009 10:25
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 10:58:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/15/09
CC
9-15-09

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	0.190	0.186	2.1	101	-0.03
40 T	1-Butanol	0.311	0.305	1.9	102	-0.07
41 T	Benzene	1.175	1.074	8.6	103	-0.02
42 T	Carbon Tetrachloride	0.395	0.384	2.8	101	-0.01
43 T	Cyclohexane	0.433	0.419	3.2	103	-0.01
44 T	tert-Amyl Methyl Ether	0.870	0.803	7.7	102	-0.02
45 T	1,2-Dichloropropane	0.290	0.281	3.1	102	-0.02
46 T	Bromodichloromethane	0.387	0.373	3.6	99	-0.02
47 T	Trichloroethene	0.287	0.283	1.4	103	-0.01
48 T	1,4-Dioxane	0.226	0.231	-2.2	102	-0.03
49 T	2,2,4-Trimethylpentane (Iso	1.337	1.269	5.1	103	-0.01
50 T	Methyl Methacrylate	0.109	0.116	-6.4	105	-0.03
51 T	n-Heptane	0.305	0.298	2.3	103	-0.02
52 T	cis-1,3-Dichloropropene	0.477	0.470	1.5	100	-0.01
53 T	4-Methyl-2-pentanone	0.268	0.267	0.4	101	-0.03
54 T	trans-1,3-Dichloropropene	0.452	0.445	1.5	100	-0.01
55 T	1,1,2-Trichloroethane	0.274	0.259	5.5	102	-0.02
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	103	0.00
57 S	Toluene-d8 (SS2)	2.234	2.397	-7.3	111	-0.01
58 T	Toluene	2.406	2.593	-7.8	103	-0.01
59 T	2-Hexanone	1.471	1.605	-9.1	100	-0.03
60 T	Dibromochloromethane	0.605	0.683	-12.9	101	0.00
61 T	1,2-Dibromoethane	0.632	0.696	-10.1	100	-0.02
62 T	n-Butyl Acetate	1.687	1.844	-9.3	99	-0.02
63 T	n-Octane	0.554	0.590	-6.5	102	-0.01
64 T	Tetrachloroethene	0.609	0.673	-10.5	103	-0.01
65 T	Chlorobenzene	1.544	1.672	-8.3	102	0.00
66 T	Ethylbenzene	2.752	2.995	-8.8	101	-0.01
67 T	m- & p-Xylenes	2.191	2.385	-8.9	101	-0.02
68 T	Bromoform	0.524	0.602	-14.9	100	-0.01
69 T	Styrene	1.613	1.840	-14.1	102	-0.01
70 T	o-Xylene	2.201	2.416	-9.8	101	-0.01
71 T	n-Nonane	1.323	1.401	-5.9	101	0.00
72 T	1,1,2,2-Tetrachloroethane	1.009	1.098	-8.8	100	-0.01
73 S	Bromofluorobenzene (SS3)	0.643	0.622	3.3	99	0.00
74 T	Cumene	2.790	3.082	-10.5	102	-0.01
75 T	alpha-Pinene	1.447	1.576	-8.9	101	0.00
76 T	n-Propylbenzene	3.543	3.874	-9.3	101	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140902.D
 Acq On : 14 Sep 2009 10:25
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

*LM 9/15/09
 CC
 9-15-09*

Quant Time: Sep 14 10:58:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 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%

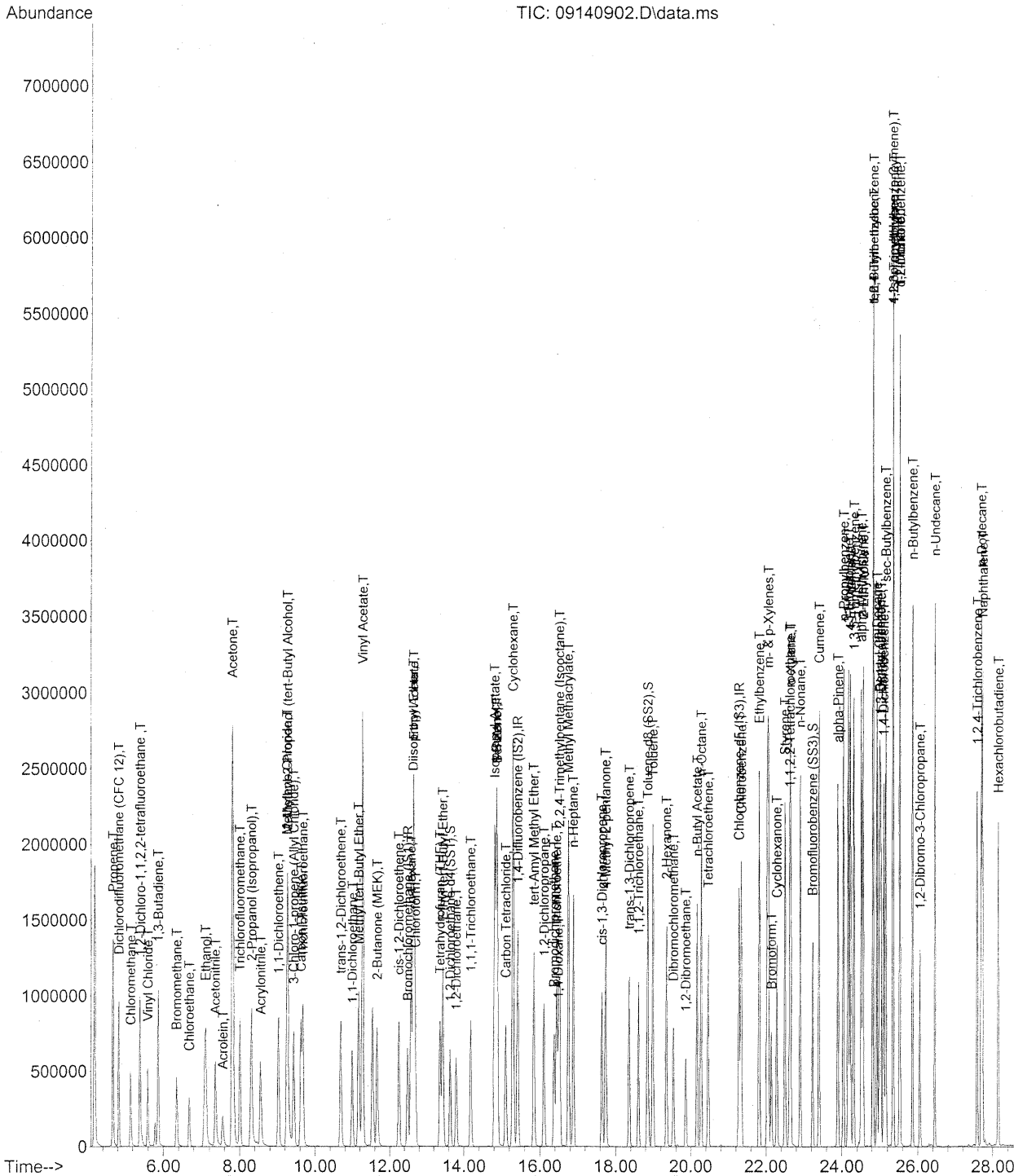
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.669	2.961	-10.9	103	-0.01
78 T	4-Ethyltoluene	2.634	2.892	-9.8	101	-0.01
79 T	1,3,5-Trimethylbenzene	2.192	2.427	-10.7	101	0.00
80 T	alpha-Methylstyrene	1.151	1.378	-19.7	102	-0.01
81 T	2-Ethyltoluene	2.738	3.012	-10.0	102	-0.01
82 T	1,2,4-Trimethylbenzene	2.238	2.493	-11.4	101	-0.02
83 T	n-Decane	1.336	1.439	-7.7	101	-0.01
84 T	Benzyl Chloride	2.215	2.436	-10.0	99	-0.01
85 T	1,3-Dichlorobenzene	1.209	1.322	-9.3	102	-0.02
86 T	1,4-Dichlorobenzene	1.260	1.402	-11.3	102	-0.02
87 T	sec-Butylbenzene	3.057	3.394	-11.0	102	-0.01
88 T	4-Isopropyltoluene (p-Cymen)	2.755	3.082	-11.9	101	-0.01
89 T	1,2,3-Trimethylbenzene	2.345	2.539	-8.3	101	-0.01
90 T	1,2-Dichlorobenzene	1.129	1.261	-11.7	101	-0.02
91 T	d-Limonene	0.893	1.030	-15.3	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.395	0.478	-21.0	99	0.00
93 T	n-Undecane	1.387	1.515	-9.2	99	0.00
94 T	1,2,4-Trichlorobenzene	0.795	0.915	-15.1	99	-0.01
95 T	Naphthalene	3.093	3.591	-16.1	101	0.00
96 T	n-Dodecane	1.581	1.654	-4.6	98	0.00
97 T	Hexachlorobutadiene	0.478	0.526	-10.0	102	0.00
98 T	Cyclohexanone	0.928	1.017	-9.6	98	-0.02
99 T	tert-Butylbenzene	2.167	2.395	-10.5	101	-0.01
100 T	n-Butylbenzene	2.492	2.778	-11.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2009_09\14\
Data File : 09140902.D
Acq On : 14 Sep 2009 10:25
Operator : LM/CC
Sample : 25ng TO-15 CCV STD
Misc : S20-09140901/S20-08240903
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 10:58:03 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140902.D
 Acq On : 14 Sep 2009 10:25
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 10:58:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/15/09
CC 9-15-09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	337332	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1696689	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	725333	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	652901	24.424	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.68%	✓
57) Toluene-d8 (SS2)	18.85	98	1738851	26.825	ng	-0.01
Spiked Amount	25.000		Recovery	=	107.28%	✓
73) Bromofluorobenzene (SS3)	23.23	174	450799	24.163	ng	0.00
Spiked Amount	25.000		Recovery	=	96.64%	✓

Target Compounds

						Qvalue
2) Propene	4.66	42	623719	25.562	ng	99
3) Dichlorodifluoromethan...	4.83	85	968769	22.677	ng	99
4) Chloromethane	5.14	50	704551	24.534	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	423816	24.021	ng	99
6) Vinyl Chloride	5.59	62	639073	23.724	ng	99
7) 1,3-Butadiene	5.86	54	585217	29.132	ng	98
8) Bromomethane	6.35	94	408745	24.549	ng	99
9) Chloroethane	6.69	64	362499	24.582	ng	98
10) Ethanol	7.10	45	1860803	122.983	ng	100
11) Acetonitrile	7.36	41	990891	23.578	ng	100
12) Acrolein	7.56	56	309013	26.748	ng	97
13) Acetone	7.81	58	1883404	120.364	ng	97
14) Trichlorofluoromethane	8.01	101	925970	24.592	ng	98
15) 2-Propanol (Isopropanol)	8.32	45	2076487	39.917	ng	99
16) Acrylonitrile	8.55	53	710374	27.501	ng	98
17) 1,1-Dichloroethene	9.02	96	480655	26.315	ng	91
18) 2-Methyl-2-Propanol (t...	9.26	59	2529332	48.557	ng	99
19) Methylene Chloride	9.25	84	481933	24.283	ng	96
20) 3-Chloro-1-propene (Al...	9.43	41	803602	26.017	ng	98
21) Trichlorotrifluoroethane	9.67	151	401388	26.920	ng	95
22) Carbon Disulfide	9.62	76	1798398	25.469	ng	99
23) trans-1,2-Dichloroethene	10.68	61	758440	26.714	ng	94
24) 1,1-Dichloroethane	10.99	63	905936	25.513	ng	100
25) Methyl tert-Butyl Ether	11.16	73	1497589	26.700	ng	98
26) Vinyl Acetate	11.27	86	577378	147.241	ng	# 95
27) 2-Butanone (MEK)	11.66	72	362200	28.656	ng	95
28) cis-1,2-Dichloroethene	12.24	61	717679	26.577	ng	91
29) Diisopropyl Ether	12.64	87	505542	27.392	ng	# 40
30) Ethyl Acetate	12.66	61	377517	55.582	ng	97
31) n-Hexane	12.58	57	853341	25.221	ng	97

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Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140902.D
 Acq On : 14 Sep 2009 10:25
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 10:58:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	847437	25.409	ng	96
34) Tetrahydrofuran (THF)	13.36	72	349948	25.530	ng	94
35) Ethyl tert-Butyl Ether	13.44	87	574823	25.387	ng	92
36) 1,2-Dichloroethane	13.79	62	699939	25.013	ng	98
38) 1,1,1-Trichloroethane	14.18	97	777637	24.793	ng	98
39) Isopropyl Acetate	14.81	61	659884	51.130	ng	# 74
40) 1-Butanol	14.86	56	1070542	50.692	ng	# 1
41) Benzene	14.88	78	1932406	24.228	ng	100
42) Carbon Tetrachloride	15.11	117	703789	26.284	ng	99
43) Cyclohexane	15.30	84	1531293	52.092	ng	95
44) tert-Amyl Methyl Ether	15.84	73	1417233	23.990	ng	97
45) 1,2-Dichloropropane	16.11	63	501578	25.450	ng	99
46) Bromodichloromethane	16.37	83	683593	26.008	ng	100
47) Trichloroethene	16.44	130	508708	26.143	ng	98
48) 1,4-Dioxane	16.48	88	419299	27.353	ng	95
49) 2,2,4-Trimethylpentane...	16.52	57	2239206	24.669	ng	98
50) Methyl Methacrylate	16.76	100	420230	56.844	ng	# 89
51) n-Heptane	16.88	71	536423	25.948	ng	97
52) cis-1,3-Dichloropropene	17.65	75	790244	24.407	ng	98
53) 4-Methyl-2-pentanone	17.75	58	497886	27.332	ng	99
54) trans-1,3-Dichloropropene	18.36	75	831452	27.110	ng	100
55) 1,1,2-Trichloroethane	18.60	97	463134	24.919	ng	99
58) Toluene	18.98	91	2030907	29.089	ng	99
59) 2-Hexanone	19.35	43	1280406	30.007	ng	97
60) Dibromochloromethane	19.53	129	570497	32.503	ng	100
61) 1,2-Dibromoethane	19.86	107	534741	29.164	ng	99
62) n-Butyl Acetate	20.16	43	1471370	30.058	ng	99
63) n-Octane	20.28	57	458372	28.529	ng	97
64) Tetrachloroethene	20.46	166	497901	28.165	ng	100
65) Chlorobenzene	21.34	112	1309614	29.241	ng	100
66) Ethylbenzene	21.82	91	2302689	28.836	ng	100
67) m- & p-Xylenes	22.06	91	3598495	56.604	ng	99
68) Bromoform	22.15	173	450635	29.652	ng	100
69) Styrene	22.50	104	1430874	30.568	ng	98
70) o-Xylene	22.65	91	1857819	29.094	ng	98
71) n-Nonane	22.91	43	1076828	28.062	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	854069	29.173	ng	98
74) Cumene	23.41	105	2306732	28.502	ng	98
75) alpha-Pinene	23.90	93	1156928	27.559	ng	97
76) n-Propylbenzene	24.05	91	2900088	28.209	ng	99
77) 3-Ethyltoluene	24.17	105	2345558	30.295	ng	99
78) 4-Ethyltoluene	24.23	105	2290471	29.976	ng	99
79) 1,3,5-Trimethylbenzene	24.32	105	1922186	30.222	ng	99

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Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140902.D
 Acq On : 14 Sep 2009 10:25
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 14 10:58:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1071800	32.088	ng	96
81) 2-Ethyltoluene	24.56	105	2298092	28.925	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1917119	29.529	ng	99
83) n-Decane	24.93	57	1127026	29.076	ng	97
84) Benzyl Chloride	25.00	91	1943785	30.240	ng	98
85) 1,3-Dichlorobenzene	25.02	146	1046793	29.832	ng	99
86) 1,4-Dichlorobenzene	25.10	146	1077920	29.497	ng	99
87) sec-Butylbenzene	25.16	105	2609299	29.424	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	2306870	28.861	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	1974159	29.011	ng	99
90) 1,2-Dichlorobenzene	25.53	146	969436	29.603	ng	99
91) d-Limonene	25.53	68	815778	31.476	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	381080	33.260	ng	93
93) n-Undecane	26.46	57	1199744	29.815	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	743485	32.234	ng	98
95) Naphthalene	27.73	128	2761117	30.773	ng	100
96) n-Dodecane	27.69	57	1189957	25.942	ng	98
97) Hexachlorobutadiene	28.15	225	419956	30.283	ng	99
98) Cyclohexanone	22.29	55	722575	26.843	ng	96
99) tert-Butylbenzene	24.83	119	1841659	29.292	ng	100
100) n-Butylbenzene	25.86	91	2200120	30.430	ng	99

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

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210901.D
 Acq On : 21 Sep 2009 4:45 am
 Operator : WA/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 06:41:46 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/21/09
9-21-09

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR Bromochloromethane (IS1)	1.000	1.000	0.0	100	-0.02
2	T Propene	1.808	1.692	6.4	87	0.00
3	T Dichlorodifluoromethane (CF	3.166	2.794	11.7	87	0.00
4	T Chloromethane	2.128	2.098	1.4	89	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.308	1.221	6.7	88	0.00
6	T Vinyl Chloride	1.996	1.869	6.4	86	-0.01
7	T 1,3-Butadiene	1.489	1.386	6.9	83	-0.01
8	T Bromomethane	1.234	1.357	-10.0	92	-0.01
9	T Chloroethane	1.093	1.054	3.6	87	-0.01
10	T Ethanol	1.121	1.086	3.1	88	-0.12
11	T Acetonitrile	3.115	2.833	9.1	86	-0.06
12	T Acrolein	0.856	0.867	-1.3	88	-0.04
13	T Acetone	1.160	1.040	10.3	90	-0.06
14	T Trichlorofluoromethane	2.791	2.706	3.0	88	-0.01
15	T 2-Propanol (Isopropanol)	3.855	3.228	16.3	80	-0.10
16	T Acrylonitrile	1.914	2.019	-5.5	88	-0.05
17	T 1,1-Dichloroethene	1.354	1.364	-0.7	92	-0.02
18	T 2-Methyl-2-Propanol (tert-B	3.860	3.772	2.3	86	-0.07
19	T Methylene Chloride	1.471	1.390	5.5	90	-0.03
20	T 3-Chloro-1-propene (Allyl C	2.289	2.243	2.0	88	-0.03
21	T Trichlorotrifluoroethane	1.105	1.172	-6.1	95	-0.02
22	T Carbon Disulfide	5.233	5.157	1.5	88	-0.01
23	T trans-1,2-Dichloroethene	2.104	2.204	-4.8	90	-0.02
24	T 1,1-Dichloroethane	2.632	2.643	-0.4	91	-0.02
25	T Methyl tert-Butyl Ether	4.157	4.274	-2.8	92	-0.04
26	T Vinyl Acetate	0.291	0.359	-23.4	102	-0.05
27	T 2-Butanone (MEK)	0.937	1.015	-8.3	90	-0.05
28	T cis-1,2-Dichloroethene	2.001	2.029	-1.4	89	-0.02
29	T Diisopropyl Ether	1.368	1.454	-6.3	92	-0.03
30	T Ethyl Acetate	0.503	0.546	-8.5	89	-0.05
31	T n-Hexane	2.508	2.362	5.8	87	-0.01
32	T Chloroform	2.472	2.496	-1.0	90	-0.03
33	S 1,2-Dichloroethane-d4 (SS1)	1.981	1.862	6.0	92	-0.02
34	T Tetrahydrofuran (THF)	1.016	0.971	4.4	90	-0.05
35	T Ethyl tert-Butyl Ether	1.678	1.764	-5.1	94	-0.03
36	T 1,2-Dichloroethane	2.074	2.022	2.5	88	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	98	-0.02
38	T 1,1,1-Trichloroethane	0.462	0.466	-0.9	89	-0.02

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210901.D
 Acq On : 21 Sep 2009 4:45 am
 Operator : WA/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 06:41:46 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/21/09
CC 9-21-09

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	0.190	0.194	-2.1	88	-0.05
40 T	1-Butanol	0.311	0.314	-1.0	88	-0.09
41 T	Benzene	1.175	1.146	2.5	92	-0.02
42 T	Carbon Tetrachloride	0.395	0.414	-4.8	91	-0.02
43 T	Cyclohexane	0.433	0.442	-2.1	91	-0.02
44 T	tert-Amyl Methyl Ether	0.870	0.854	1.8	91	-0.03
45 T	1,2-Dichloropropane	0.290	0.292	-0.7	88	-0.02
46 T	Bromodichloromethane	0.387	0.404	-4.4	89	-0.02
47 T	Trichloroethene	0.287	0.305	-6.3	92	-0.02
48 T	1,4-Dioxane	0.226	0.251	-11.1	93	-0.04
49 T	2,2,4-Trimethylpentane (Iso	1.337	1.326	0.8	89	-0.02
50 T	Methyl Methacrylate	0.109	0.124	-13.8	93	-0.04
51 T	n-Heptane	0.305	0.314	-3.0	90	-0.02
52 T	cis-1,3-Dichloropropene	0.477	0.502	-5.2	89	-0.02
53 T	4-Methyl-2-pentanone	0.268	0.282	-5.2	89	-0.04
54 T	trans-1,3-Dichloropropene	0.452	0.481	-6.4	90	-0.02
55 T	1,1,2-Trichloroethane	0.274	0.281	-2.6	92	-0.02
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	94	0.00
57 S	Toluene-d8 (SS2)	2.234	2.282	-2.1	96	-0.01
58 T	Toluene	2.406	2.516	-4.6	91	-0.02
59 T	2-Hexanone	1.471	1.527	-3.8	87	-0.04
60 T	Dibromochloromethane	0.605	0.687	-13.6	93	-0.01
61 T	1,2-Dibromoethane	0.632	0.690	-9.2	90	-0.02
62 T	n-Butyl Acetate	1.687	1.754	-4.0	87	-0.02
63 T	n-Octane	0.554	0.564	-1.8	89	-0.02
64 T	Tetrachloroethene	0.609	0.673	-10.5	94	-0.01
65 T	Chlorobenzene	1.544	1.644	-6.5	92	-0.01
66 T	Ethylbenzene	2.752	2.933	-6.6	91	-0.01
67 T	m- & p-Xylenes	2.191	2.343	-6.9	91	-0.02
68 T	Bromoform	0.524	0.609	-16.2	93	-0.02
69 T	Styrene	1.613	1.808	-12.1	92	-0.01
70 T	o-Xylene	2.201	2.363	-7.4	90	-0.02
71 T	n-Nonane	1.323	1.322	0.1	87	-0.01
72 T	1,1,2,2-Tetrachloroethane	1.009	1.081	-7.1	90	-0.02
73 S	Bromofluorobenzene (SS3)	0.643	0.661	-2.8	96	-0.01
74 T	Cumene	2.790	3.011	-7.9	91	-0.01
75 T	alpha-Pinene	1.447	1.539	-6.4	90	0.00
76 T	n-Propylbenzene	3.543	3.795	-7.1	90	-0.01

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210901.D
 Acq On : 21 Sep 2009 4:45 am
 Operator : WA/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 06:41:46 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

CC
9-21-09
WA 9/21/09

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	2.669	2.861	-7.2	91	-0.01
78 T	4-Ethyltoluene	2.634	2.900	-10.1	93	-0.02
79 T	1,3,5-Trimethylbenzene	2.192	2.373	-8.3	91	-0.01
80 T	alpha-Methylstyrene	1.151	1.361	-18.2	92	-0.01
81 T	2-Ethyltoluene	2.738	2.954	-7.9	91	-0.02
82 T	1,2,4-Trimethylbenzene	2.238	2.451	-9.5	91	-0.02
83 T	n-Decane	1.336	1.374	-2.8	88	-0.01
84 T	Benzyl Chloride	2.215	2.374	-7.2	88	-0.02
85 T	1,3-Dichlorobenzene	1.209	1.323	-9.4	93	-0.02
86 T	1,4-Dichlorobenzene	1.260	1.394	-10.6	93	-0.02
87 T	sec-Butylbenzene	3.057	3.344	-9.4	92	-0.01
88 T	4-Isopropyltoluene (p-Cymen)	2.755	3.046	-10.6	91	-0.01
89 T	1,2,3-Trimethylbenzene	2.345	2.496	-6.4	91	-0.01
90 T	1,2-Dichlorobenzene	1.129	1.262	-11.8	93	-0.02
91 T	d-Limonene	0.893	0.990	-10.9	88	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.395	0.488	-23.5	92	-0.01
93 T	n-Undecane	1.387	1.467	-5.8	88	0.00
94 T	1,2,4-Trichlorobenzene	0.795	0.942	-18.5	93	-0.01
95 T	Naphthalene	3.093	3.596	-16.3	92	-0.01
96 T	n-Dodecane	1.581	1.643	-3.9	89	0.00
97 T	Hexachlorobutadiene	0.478	0.534	-11.7	94	0.00
98 T	Cyclohexanone	0.928	0.978	-5.4	87	-0.03
99 T	tert-Butylbenzene	2.167	2.375	-9.6	91	-0.01
100 T	n-Butylbenzene	2.492	2.730	-9.6	90	-0.01

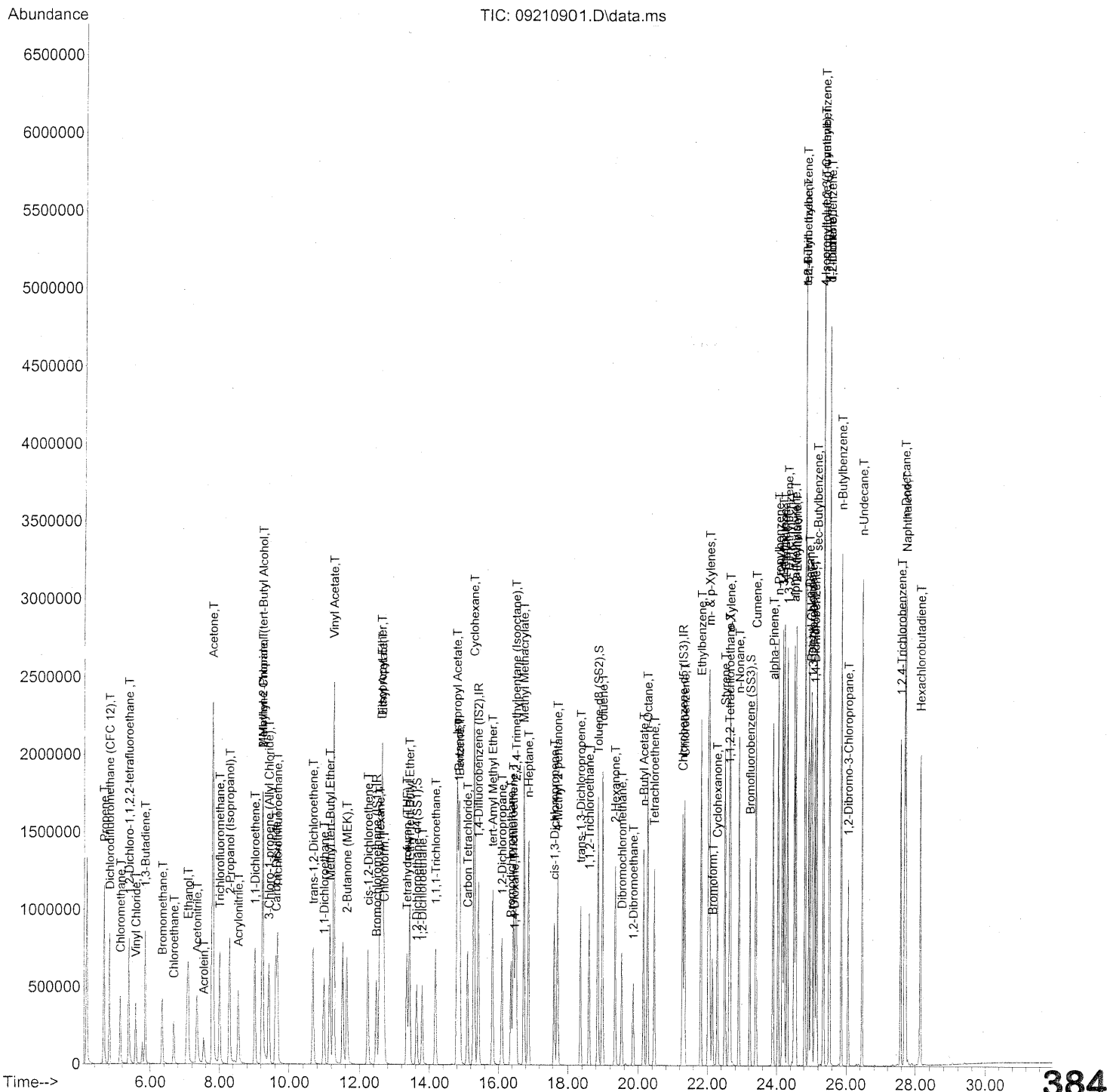
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210901.D
 Acq On : 21 Sep 2009 4:45 am
 Operator : WA/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 06:41:46 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210901.D
 Acq On : 21 Sep 2009 4:45 am
 Operator : WA/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 06:41:46 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

WA/CC
9-21-09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	283084	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.41	114	1414530	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	663010	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	527001	23.492	ng	-0.02
Spiked Amount	25.000		Recovery	=	93.96%	✓
57) Toluene-d8 (SS2)	18.85	98	1512817	25.532	ng	-0.01
Spiked Amount	25.000		Recovery	=	102.12%	✓
73) Bromofluorobenzene (SS3)	23.23	174	438295	25.702	ng	-0.01
Spiked Amount	25.000		Recovery	=	102.80%	✓

Target Compounds

						Qvalue
2) Propene	4.66	42	513376	25.071	ng	98
3) Dichlorodifluoromethan...	4.82	85	831952	23.206	ng	99
4) Chloromethane	5.14	50	594050	24.650	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.38	135	366340	24.742	ng	100
6) Vinyl Chloride	5.58	62	535552	23.691	ng	99
7) 1,3-Butadiene	5.85	54	470970	27.937	ng	99
8) Bromomethane	6.34	94	391807	28.041	ng	97
9) Chloroethane	6.67	64	302042	24.408	ng	99
10) Ethanol	7.08	45	1598319	125.878	ng	100
11) Acetonitrile	7.34	41	843673	23.922	ng	100
12) Acrolein	7.54	56	265093	27.343	ng	97
13) Acetone	7.79	58	1624387	123.704	ng	97
14) Trichlorofluoromethane	8.00	101	805986	25.508	ng	98
15) 2-Propanol (Isopropanol)	8.29	45	1729156	39.610	ng	99
16) Acrylonitrile	8.54	53	605717	27.943	ng	98
17) 1,1-Dichloroethene	9.02	96	424697	27.707	ng	87
18) 2-Methyl-2-Propanol (t...	9.24	59	2157046	49.345	ng	99
19) Methylene Chloride	9.24	84	421708	25.320	ng	94
20) 3-Chloro-1-propene (Al...	9.42	41	685824	26.459	ng	94
21) Trichlorotrifluoroethane	9.67	151	365011	29.172	ng	94
22) Carbon Disulfide	9.62	76	1565062	26.412	ng	98
23) trans-1,2-Dichloroethene	10.67	61	661360	27.759	ng	91
24) 1,1-Dichloroethane	10.98	63	793094	26.615	ng	99
25) Methyl tert-Butyl Ether	11.15	73	1321237	28.070	ng	98
26) Vinyl Acetate	11.26	86	511757	155.515	ng	# 89
27) 2-Butanone (MEK)	11.64	72	316139	29.805	ng	92
28) cis-1,2-Dichloroethene	12.24	61	627369	27.685	ng	88
29) Diisopropyl Ether	12.63	87	441319	28.495	ng	# 40
30) Ethyl Acetate	12.64	61	329456	57.801	ng	95
31) n-Hexane	12.58	57	730266	25.719	ng	97

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Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210901.D
 Acq On : 21 Sep 2009 4:45 am
 Operator : WA/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 06:41:46 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.69	83	757569	27.067	ng	97
34) Tetrahydrofuran (THF)	13.35	72	302493	26.297	ng	92
35) Ethyl tert-Butyl Ether	13.43	87	515344	27.122	ng	90
36) 1,2-Dichloroethane	13.79	62	606670	25.835	ng	98
38) 1,1,1-Trichloroethane	14.17	97	692896	26.498	ng	98
39) Isopropyl Acetate	14.80	61	573708	53.320	ng	# 75
40) 1-Butanol	14.84	56	921365	52.331	ng	# 1
41) Benzene	14.87	78	1718446	25.843	ng	100
42) Carbon Tetrachloride	15.10	117	633226	28.366	ng	99
43) Cyclohexane	15.29	84	1344713	54.869	ng	93
44) tert-Amyl Methyl Ether	15.83	73	1256977	25.521	ng	97
45) 1,2-Dichloropropane	16.10	63	434205	26.426	ng	99
46) Bromodichloromethane	16.37	83	617741	28.191	ng	100
47) Trichloroethene	16.44	130	457973	28.230	ng	99
48) 1,4-Dioxane	16.47	88	380264	29.755	ng	97
49) 2,2,4-Trimethylpentane...	16.52	57	1950661	25.777	ng	98
50) Methyl Methacrylate	16.75	100	374601	60.780	ng	# 89
51) n-Heptane	16.88	71	470851	27.319	ng	96
52) cis-1,3-Dichloropropene	17.64	75	704193	26.087	ng	99
53) 4-Methyl-2-pentanone	17.73	58	439374	28.931	ng	98
54) trans-1,3-Dichloropropene	18.35	75	748961	29.292	ng	100
55) 1,1,2-Trichloroethane	18.59	97	417770	26.962	ng	99
58) Toluene	18.98	91	1801772	28.233	ng	99
59) 2-Hexanone	19.34	43	1113358	28.545	ng	96
60) Dibromochloromethane	19.53	129	524576	32.696	ng	99
61) 1,2-Dibromoethane	19.86	107	484667	28.917	ng	100
62) n-Butyl Acetate	20.16	43	1279465	28.594	ng	98
63) n-Octane	20.27	57	400818	27.292	ng	95
64) Tetrachloroethene	20.46	166	454980	28.156	ng	100
65) Chlorobenzene	21.34	112	1177211	28.756	ng	99
66) Ethylbenzene	21.82	91	2061274	28.239	ng	100
67) m- & p-Xylenes	22.05	91	3230962	55.600	ng	99
68) Bromoform	22.14	173	416637	29.992	ng	100
69) Styrene	22.50	104	1285358	30.041	ng	98
70) o-Xylene	22.65	91	1660930	28.456	ng	98
71) n-Nonane	22.91	43	928816	26.480	ng	96
72) 1,1,2,2-Tetrachloroethane	22.62	83	768283	28.710	ng	98
74) Cumene	23.41	105	2060468	27.852	ng	98
75) alpha-Pinene	23.90	93	1032376	26.903	ng	98
76) n-Propylbenzene	24.04	91	2596367	27.628	ng	99
77) 3-Ethyltoluene	24.17	105	2071343	29.268	ng	97
78) 4-Ethyltoluene	24.22	105	2099329	30.057	ng	100
79) 1,3,5-Trimethylbenzene	24.31	105	1718036	29.551	ng	98

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Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210901.D
 Acq On : 21 Sep 2009 4:45 am
 Operator : WA/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 06:41:46 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	967575	31.690	ng	97
81) 2-Ethyltoluene	24.55	105	2060126	28.368	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1722404	29.024	ng	98
83) n-Decane	24.93	57	984032	27.773	ng	96
84) Benzyl Chloride	24.99	91	1731645	29.472	ng	97
85) 1,3-Dichlorobenzene	25.02	146	957672	29.858	ng	99
86) 1,4-Dichlorobenzene	25.10	146	979462	29.322	ng	99
87) sec-Butylbenzene	25.16	105	2350255	28.994	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	2084113	28.525	ng	100
89) 1,2,3-Trimethylbenzene	25.35	105	1773887	28.518	ng	99
90) 1,2-Dichlorobenzene	25.53	146	886794	29.625	ng	100
91) d-Limonene	25.53	68	716608	30.249	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.06	157	356092	34.000	ng	90
93) n-Undecane	26.46	57	1062097	28.875	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	699201	33.163	ng	99
95) Naphthalene	27.72	128	2527097	30.812	ng	100
96) n-Dodecane	27.69	57	1080837	25.778	ng	98
97) Hexachlorobutadiene	28.14	225	389498	30.727	ng	98
98) Cyclohexanone	22.28	55	635184	25.815	ng	96
99) tert-Butylbenzene	24.83	119	1669383	29.047	ng	99
100) n-Butylbenzene	25.86	91	1976395	29.905	ng	99

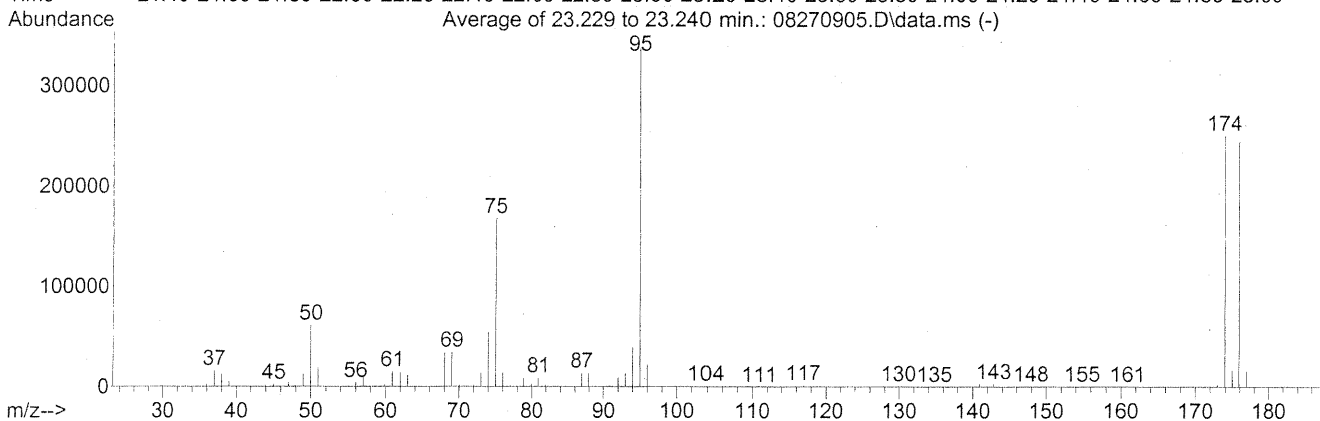
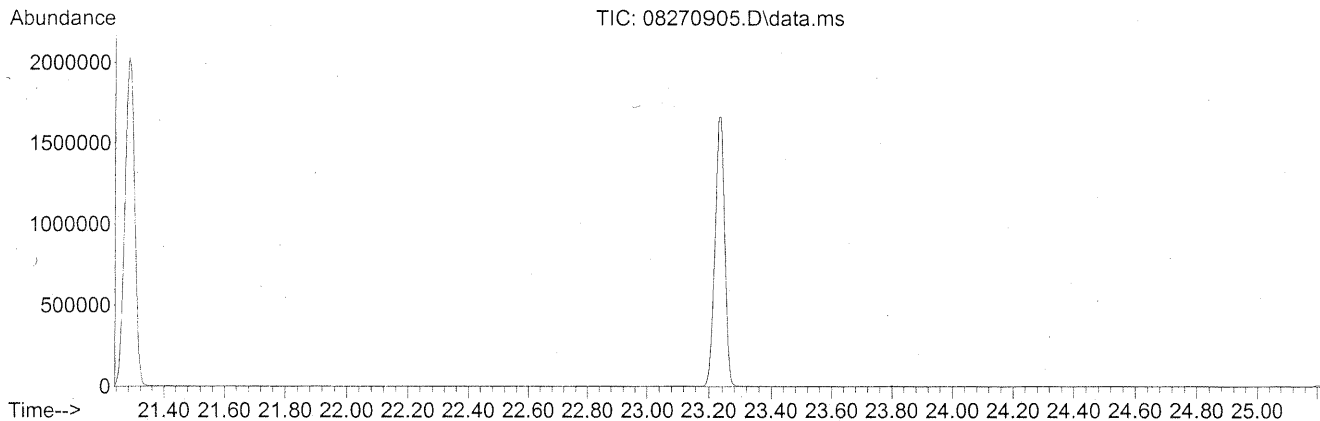
(#) = qualifier out of range (m) = manual integration (+) = signals summed

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270905.D
 Acq On : 27 Aug 2009 14:50
 Operator : WA/CC
 Sample : 25ng BFB
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13082709.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 27 20:40:00 2009



AutoFind: Scans 3351, 3352, 3353; Background Corrected with Scan 3340

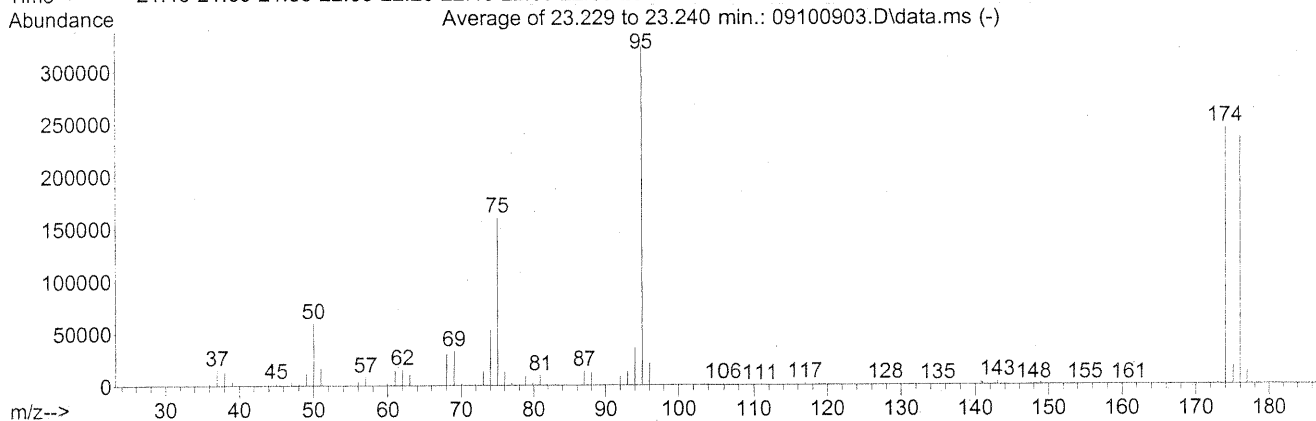
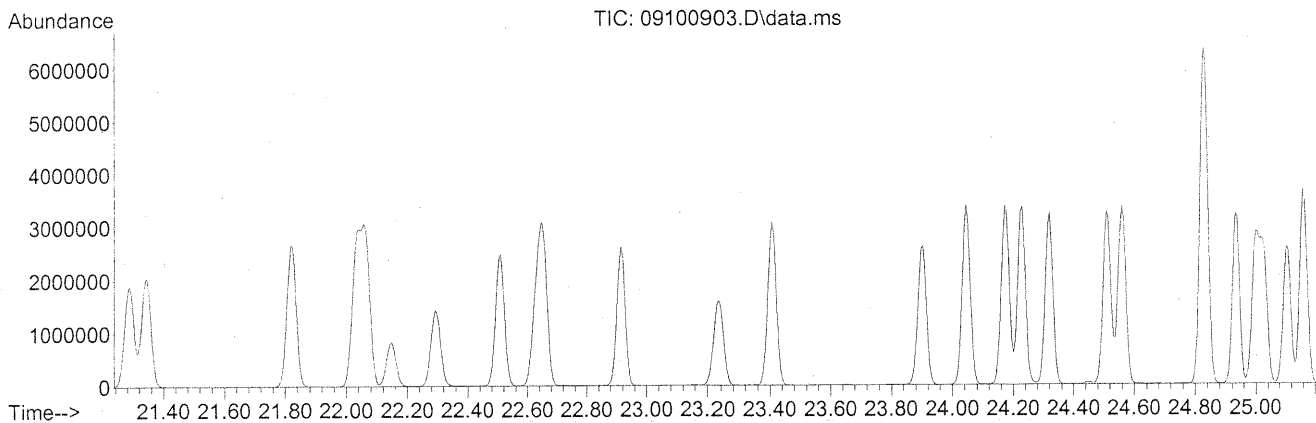
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.3	61821	PASS
75	95	30	66	49.9	168149	PASS
95	95	100	100	100.0	336960	PASS
96	95	5	9	6.5	21936	PASS
173	174	0.00	2	1.0	2440	PASS
174	95	50	120	74.4	250560	PASS
175	174	4	9	6.9	17332	PASS
176	174	93	101	97.7	244779	PASS
177	176	5	9	6.5	15927	PASS

WA 8/28/09
CC 8/28/09

Data Path : J:\MS13\DATA\2009_09\10\
 Data File : 09100903.D
 Acq On : 10 Sep 2009 10:17
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903 (EM1459-1494)
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13082709.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009



AutoFind: Scans 3351, 3352, 3353; Background Corrected with Scan 3341

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.5	59920	PASS
75	95	30	66	49.6	160299	PASS
95	95	100	100	100.0	323243	PASS
96	95	5	9	6.7	21803	PASS
173	174	0.00	2	0.9	2307	PASS
174	95	50	120	75.8	244907	PASS
175	174	4	9	7.2	17664	PASS
176	174	93	101	96.4	236160	PASS
177	176	5	9	6.2	14695	PASS

mallo/09

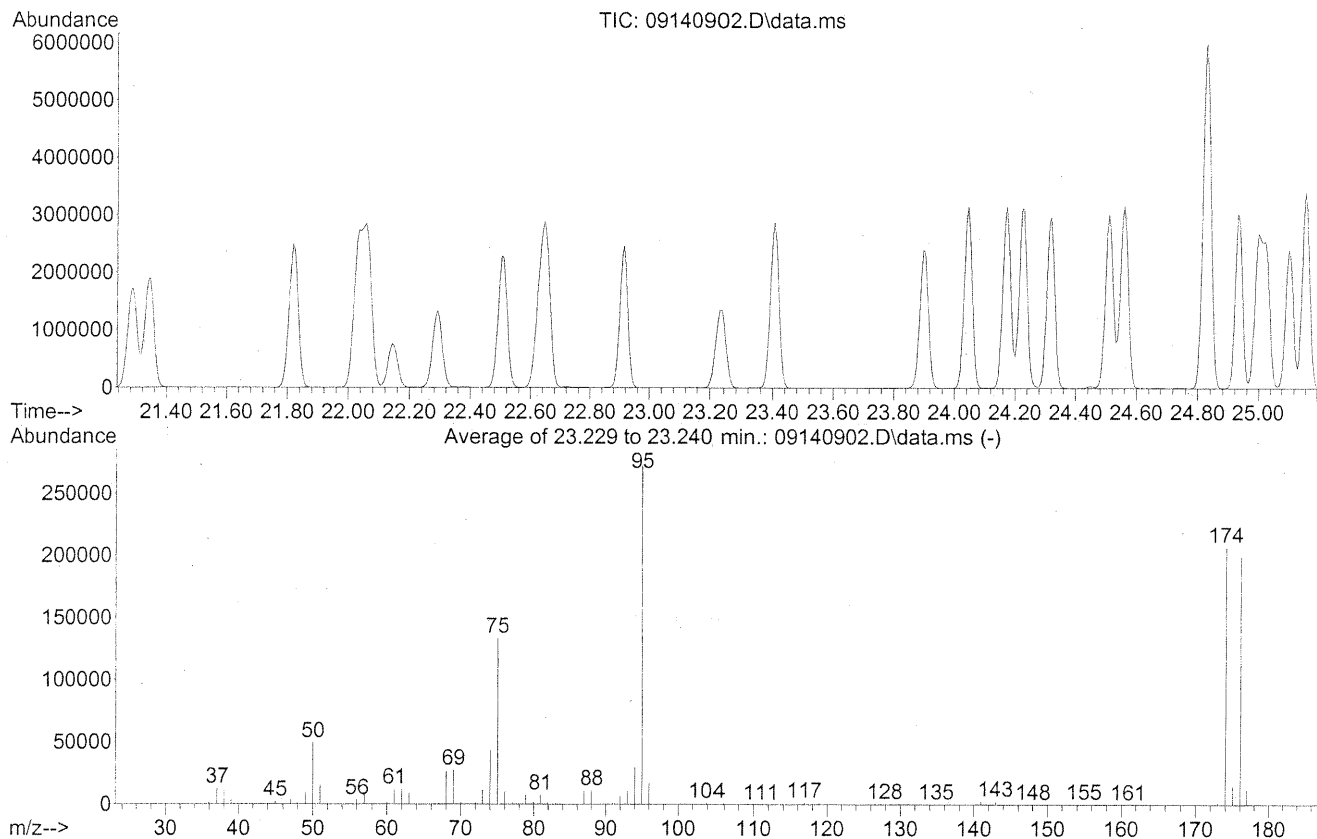
cc
~~9-10-09~~
 9-11-09

Data Path : J:\MS13\DATA\2009_09\14\
 Data File : 09140902.D
 Acq On : 14 Sep 2009 10:25
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

CC
 9-15-09
 LM 9/15/09

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13082709.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009



AutoFind: Scans 3351, 3352, 3353; Background Corrected with Scan 3340

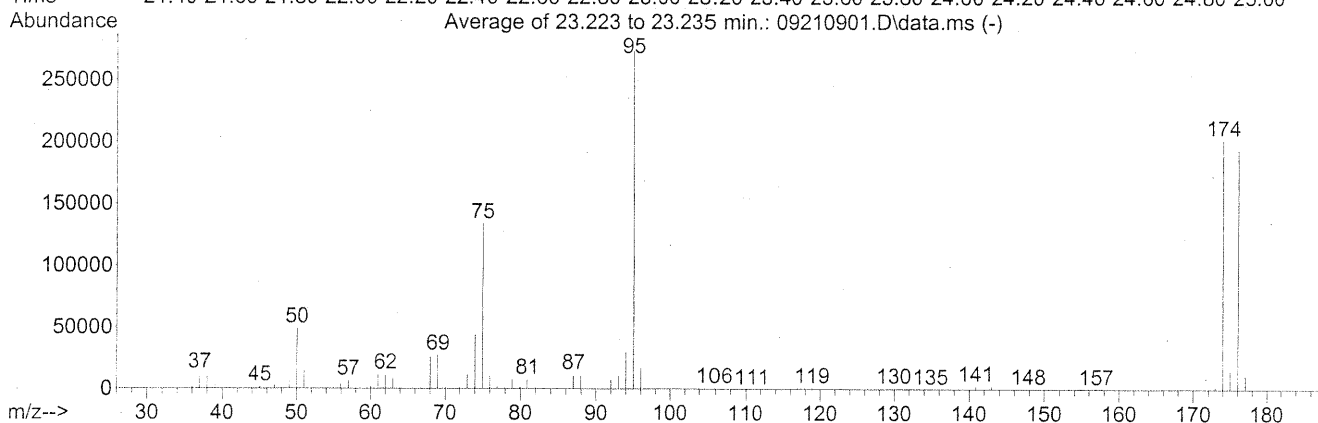
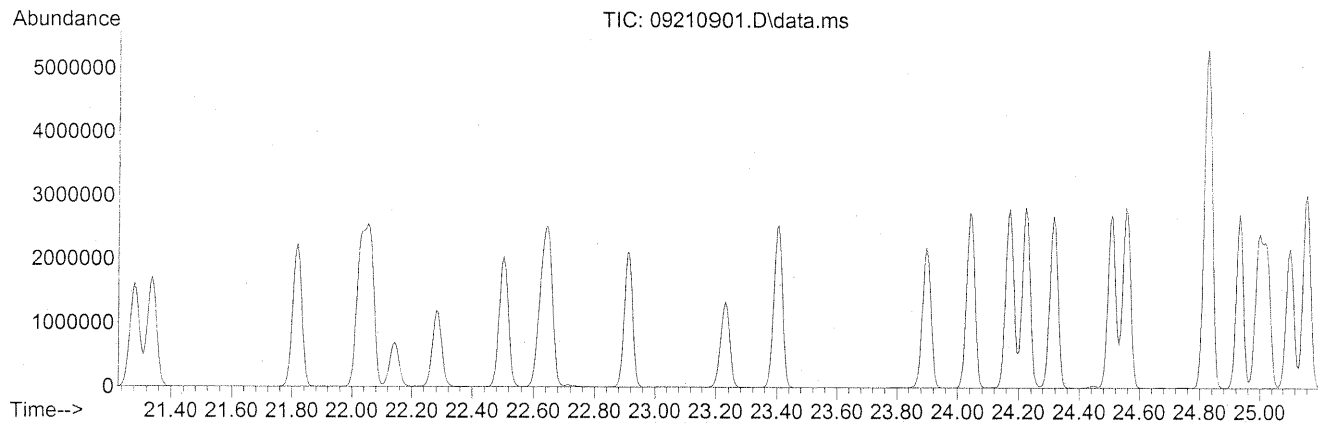
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	49704	PASS
75	95	30	66	49.1	133885	PASS
95	95	100	100	100.0	272789	PASS
96	95	5	9	6.5	17685	PASS
173	174	0.00	2	1.0	2106	PASS
174	95	50	120	76.1	207552	PASS
175	174	4	9	7.2	14995	PASS
176	174	93	101	96.2	199680	PASS
177	176	5	9	6.4	12736	PASS

Data Path : J:\MS13\DATA\2009_09\21\
 Data File : 09210901.D
 Acq On : 21 Sep 2009 4:45 am
 Operator : WA/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09140901/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

WA 9/21/09
CC
9-21-09

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13082709.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009



AutoFind: Scans 3350, 3351, 3352; Background Corrected with Scan 3340

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	49304	PASS
75	95	30	66	49.0	134219	PASS
95	95	100	100	100.0	273941	PASS
96	95	5	9	6.3	17291	PASS
173	174	0.00	2	1.0	1990	PASS
174	95	50	120	73.8	202069	PASS
175	174	4	9	7.6	15300	PASS
176	174	93	101	96.0	194027	PASS
177	176	5	9	6.3	12304	PASS

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/26/09 10:15	08260902.D	5ng TO-15 CCV STD	S20-08140906/S20-07310904	WA/CC	9	Passed (EM=1424)
2	08/26/09 11:30	08260903.D	TO-15 Method Blank (1000ml)	S20-08140906	WA/CC	4	Passed
3	08/26/09 12:23	08260904.D	P0902949-001 dil (25mL)	[REDACTED]	WA/CC	7	
4	08/26/09 13:03	08260905.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	13	case file
5	08/26/09 13:43	08260906.D	P0902876-001 dil (200mL)	[REDACTED]	WA/CC	8	
6	08/26/09 14:42	08260907.D	P0902949-006 (0.25mL)	[REDACTED]	WA/CC	12	
7	08/26/09 15:22	08260908.D	System		WA/CC	16	
8	08/26/09 16:02	08260909.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	13	case file
9	08/26/09 16:43	08260910.D	P0902949-005 (20mL)	[REDACTED]	WA/CC	15	
10	08/26/09 17:25	08260911.D	P0902876-007 (1000mL)	[REDACTED]	WA/CC	1	
11	08/26/09 18:05	08260912.D	P0902949-005 dup (20mL)	[REDACTED]	WA/CC	15	Passed
12	08/26/09 18:47	08260913.D	P0902876-008 (1000mL)	[REDACTED]	WA/CC	2	
13	08/26/09 19:28	08260914.D	P0902876-009 (1000mL)	[REDACTED]	WA/CC	3	
14	08/26/09 20:09	08260915.D	P0902876-010 (1000mL)	[REDACTED]	WA/CC	5	
15	08/26/09 20:51	08260916.D	P0902876-011 (1000mL)	[REDACTED]	WA/CC	6	
16	08/26/09 21:32	08260917.D	System		WA/CC	16	
17	08/26/09 22:13	08260918.D	P0902876-004 dil (200mL)	[REDACTED]	WA/CC	12	
18	08/26/09 22:53	08260919.D	P0902876-005 dil (200mL)	[REDACTED]	WA/CC	14	
19	08/26/09 23:34	08260920.D	P0902949-001 (250mL)	[REDACTED]	WA/CC	7	
20	08/27/09 0:16	08260921.D	P0902949-003 (1000mL)	[REDACTED]	WA/CC	10	
21	08/27/09 0:58	08260922.D	P0902949-004 (1000mL)	[REDACTED]	WA/CC	11	
22	08/27/09 1:38	08260923.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	13	Passed
23	08/27/09 4:32	08260924.D	Blank		WA/CC	4	
24	08/27/09 6:39	08260925.D	P0902876-009 (1000mL)	[REDACTED]	WA/CC	3	
25	08/27/09 7:25	08260926.D	P0902949-002 (200mL)	[REDACTED]	WA/CC	8	WA 8/27

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/27/09 11:46	08270902.D	200ng/L STD Check	S20-08140906/S20-08240903	WA/CC	4	
2	08/27/09 13:01	08270903.D	4ng/L STD Check	S20-08140906/S20-08240906	WA/CC	14	
3	08/27/09 14:10	08270904.D	0.1ng STD Check (EM=1459)	S20-08140906/S20-08240906	WA/CC	14	
4	08/27/09 14:50	08270905.D	25ng BFB	S20-08140906	WA/CC	4	Passed
5	08/27/09 15:31	08270906.D	0.1ng TO-15 ICAL	S20-08140906/S20-08240906	WA/CC	14	ICAL OK all
6	08/27/09 16:11	08270907.D	0.2ng TO-15 ICAL	S20-08140906/S20-08240906	WA/CC	14	compounds
7	08/27/09 16:52	08270908.D	0.5ng TO-15 ICAL	S20-08140906/S20-07310904	WA/CC	4	0.1ng->100ng
8	08/27/09 17:32	08270909.D	1.0ng TO-15 ICAL	S20-08140906/S20-07310904	WA/CC	4	except: Acrolein,
9	08/27/09 18:13	08270910.D	5.0ng TO-15 ICAL	S20-08140906/S20-07310904	WA/CC	4	THF(0.5->100ng);
10	08/27/09 18:53	08270911.D	25ng TO-15 ICAL	S20-08140906/S20-08240903	WA/CC	4	IPA (0.2->100ng)
11	08/27/09 19:34	08270912.D	50ng TO-15 ICAL	S20-08140906/S20-08240903	WA/CC	4	TBA(0.1->50ng)
12	08/27/09 20:14	08270913.D	100ng TO-15 ICAL	S20-08140906/S20-08240903	WA/CC	4	
13	08/27/09 20:55	08270914.D	25ng TO-15 ICV	S20-08140906/S20-08240912	WA/CC	13	Passed all

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/10/09 8:36	09100901.D	Blank		LM/CC	4	
2	09/10/09 9:17	09100902.D	25ng TO-15 CCV STD	S20-08140906/S20-08240903	LM/CC	4	Passed
3	09/10/09 10:17	09100903.D	25ng TO-15 CCV STD	S20-08140906/S20-08240903(EM1459-1494)	LM/CC	4	Passed
4	09/10/09 11:16	09100904.D	25ng TO-15 CCV ACF STD	S20-08140906/S20-07220901	LM/CC	13	Passed
5	09/10/09 12:23	09100905.D	TO-15 Method Blank (1000ml)	S20-08140906	LM/CC	4	Passed
6	09/10/09 13:18	09100906.D	P0903047-006 (1000ml)	[REDACTED]	LM/CC	8	re-ran <i>Confirmation</i>
7	09/10/09 13:58	09100907.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	LM/CC	5	Passed
8	09/10/09 14:51	09100908.D	P0903190-001 (0.3ml)	[REDACTED]	LM/CC	4	case file <i>ran higher</i>
9	09/10/09 15:34	09100909.D	P0903190-001 (20ml)	[REDACTED]	LM/CC	16	
10	09/10/09 16:14	09100910.D	P0903190-002 (2ml)	[REDACTED]	LM/CC	4	
11	09/10/09 16:59	09100911.D	P0903116-001 (0.005ml)	[REDACTED]	LM/CC	4	
12	09/10/09 18:14	09100912.D	P0903116-001dup (0.005ml)	[REDACTED]	LM/CC	4	Case file not used
13	09/10/09 18:54	09100913.D	P0903190-003 (100ml)	[REDACTED]	LM/CC	16	
14	09/10/09 19:34	09100914.D	P0903190-003dil (20ml)	[REDACTED]	LM/CC	16	
15	09/10/09 20:14	09100915.D	Blank(100ml)		LM/CC	4	
16	09/10/09 20:56	09100916.D	P0903053-001 (1000ml)	[REDACTED]	LM/CC	9	
17	09/10/09 21:38	09100917.D	P0903053-001 dup (1000ml)	[REDACTED]	LM/CC	9	Passed
18	09/10/09 22:20	09100918.D	P0903053-002 (1000ml)	[REDACTED]	LM/CC	10	
19	09/10/09 23:02	09100919.D	P0903141-001 (1000ml)	EH&E 105014	LM/CC	1	
20	09/10/09 23:44	09100920.D	P0903141-002 (1000ml)	EH&E 105015	LM/CC	2	
21	09/11/09 0:26	09100921.D	P0903141-003 (1000ml)	EH&E 105016	LM/CC	3	
22	09/11/09 1:08	09100922.D	P0903141-004 (1000ml)	EH&E 105017	LM/CC	6	
23	09/11/09 1:50	09100923.D	P0903141-005 (1000ml)	EH&E 105018	LM/CC	7	
24	09/11/09 2:30	09100924.D	P0903141-005 dil (100ml)	EH&E 105018	LM/CC	7	
25	09/11/09 3:12	09100925.D	P0903141-006 (1000ml)	EH&E 105019	LM/CC	8	
26	09/11/09 3:52	09100926.D	blank (100ml)	rinse	LM/CC	4	

Confirmation
ran higher

CC 9-11-09

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	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/11/09 8:59	09110901.D	25ng TO-15 CCV STD	S20-08140906/S20-08240903	LM/CC	4	Passed
2	09/11/09 10:12	09110902.D	TO-15 Method Blank (1000ml)	S20-08140906	LM/CC	4	Passed
3	09/11/09 11:10	09110903.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	LM/CC	5	Passed
4	09/11/09 12:03	09110904.D	25ng TO-15 LCSD STD	S20-08140906/S20-08240912	LM/CC	5	Passed
5	09/11/09 12:46	09110905.D	P0903188-002 (1.0ml)	[REDACTED]	LM/CC	4	
6	09/11/09 13:27	09110906.D	P0903188-001 (100ml)	[REDACTED]	LM/CC	11	
7	09/11/09 14:23	09110907.D	P0903206-002 (2ml)	[REDACTED]	LM/CC	4	
8	09/11/09 15:06	09110908.D	P0903118-001 (1.5ml)	[REDACTED]	LM/CC	4	
9	09/11/09 15:52	09110909.D	P0903175-001 (4ml)	[REDACTED]	LM/CC	4	
10	09/11/09 16:49	09110910.D	P0903148-004 (1ml)	[REDACTED]	LM/CC	4	case file ran high
11	09/11/09 17:40	09110911.D	P0903206-001 (250ml)	[REDACTED]	LM/CC	1	
12	09/11/09 18:21	09110912.D	P0903206-001dup (250ml)	[REDACTED]	LM/CC	1	case file not used
13	09/11/09 19:01	09110913.D	P0903188-001 (200ml)	[REDACTED]	LM/CC	13	

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15	09/11/09 20:22	09110915.D	P0903118-001dup (15ml)	[REDACTED]	LM/CC	16	Passed
16	09/11/09 21:02	09110916.D	P0903118-002 (100ml)	[REDACTED]	LM/CC	15	case file ran high
17	09/11/09 21:43	09110917.D	P0903175-002 (200ml)	[REDACTED]	LM/CC	7	Case File
18	09/11/09 22:25	09110918.D	P0903175-003 (1000ml)	[REDACTED]	LM/CC	8	- ran higher 9-15-09
19	09/11/09 23:08	09110919.D	P0903175-004 (1000ml)	[REDACTED]	LM/CC	9	
20	09/11/09 23:50	09110920.D	P0903175-005 (1000ml)	[REDACTED]	LM/CC	10	
21	09/12/09 0:32	09110921.D	P0903175-006 (1000ml)	[REDACTED]	LM/CC	11	
22	09/12/09 1:13	09110922.D	P0903175-007 (150ml)	[REDACTED]	LM/CC	12	

CC
9-15-09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/14/09 9:45	09140901.D	blank (100ml)	S20-09140901	LM/CC	4	
2	09/14/09 10:25	09140902.D	25ng TO-15 CCV STD	S20-09140901/S20-08240903	LM/CC	4	Passed
3	09/14/09 12:05	09140903.D	TO-15 Method Blank (1000ml)	S20-09140901	LM/CC	4	Passed
4	09/14/09 13:03	09140904.D	25ng TO-15 LCS STD	S20-09140901/S20-08240912	LM/CC	5	Passed
5	09/14/09 13:43	09140905.D	25ng TO-15 LCSD STD	S20-09140901/S20-08240912	LM/CC	5	Passed
6	09/14/09 14:25	09140906.D	P0903118-002 (1000ml)	[REDACTED]	LM/CC	15	
7	09/14/09 15:22	09140907.D	P0903148-001 (25ml)	[REDACTED]	LM/CC	1	
8	09/14/09 16:16	09140908.D	P0903148-001 dup (25ml)	[REDACTED]	LM/CC	1	Passed
9	09/14/09 17:36	09140909.D	P0903148-006 (2ml)	[REDACTED]	LM/CC	4	case file ran high
10	09/14/09 18:16	09140910.D	P0903148-010 (3.5ml)	[REDACTED]	LM/CC	4	
11	09/14/09 18:56	09140911.D	P0903148-002 (400ml)	[REDACTED]	LM/CC	6	
12	09/14/09 19:37	09140912.D	P0903148-003 (200ml)	[REDACTED]	LM/CC	8	
13	09/14/09 20:17	09140913.D	P0903148-004 (15ml)	[REDACTED]	LM/CC	9	
14	09/14/09 20:57	09140914.D	P0903148-005 (30ml)	[REDACTED]	LM/CC	13	
15	09/14/09 21:38	09140915.D	P0903148-007 (15ml)	[REDACTED]	LM/CC	14	
16	09/14/09 22:18	09140916.D	P0903148-008 (15ml)	[REDACTED]	LM/CC	15	
17	09/14/09 22:58	09140917.D	P0903148-009 (15ml)	[REDACTED]	LM/CC	16	
18	09/14/09 23:40	09140918.D	P0903175-002 (1000ml)	[REDACTED]	LM/CC	7	
19	09/15/09 0:21	09140919.D	Blank (100ml)		LM/CC	4	
20	09/15/09 1:01	09140920.D	P0903175-005dil (200ml)	[REDACTED]	LM/CC	10	
21	09/15/09 1:42	09140921.D	P0903175-006dil (200ml)	[REDACTED]	LM/CC	11	
22	09/15/09 2:22	09140922.D	P0903175-007dil (50ml)	[REDACTED]	LM/CC	12	
23	09/15/09 3:03	09140923.D	P0903141-002dil (200ml)	EH&E 105015	LM/CC	2	
24	09/15/09 3:44	09140924.D	P0903141-004dil (200ml)	EH&E 105017	LM/CC	3	

CC
9-15-09

cc
9-22-09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/21/09 4:45	09210901.D	25ng TO-15 CCV STD	S20-09140901/S20-08240903	WA/CC	4	Passed
2	09/21/09 5:25	09210902.D	5.0ng TO-15 ACF STD	S20-09140901/S20-08270904	WA/CC	15	
3	09/21/09 6:07	09210903.D	TO-15 Method Blank (1000mL)	S20-09140901	WA/CC	14	Passed
4	09/21/09 7:23	09210904.D	P0903227-023 (100ml) dil	[REDACTED]	WA/CC	10	
5	09/21/09 8:03	09210905.D	25ng TO-15 LCS STD	S20-09140901/S20-09160904	WA/CC	5	case file
6	09/21/09 9:50	09210906.D	25ng TO-15 LCS STD	S20-09140901/S20-09160904	WA/CC	5	Passed
7	09/21/09 10:48	09210907.D	P0903141-003dil (200ml)	EH&E 105016	WA/CC	1	
8	09/21/09 12:16	09210908.D	P0903239-003 (0.5ml)	[REDACTED]	WA/CC	4	
9	09/21/09 13:13	09210909.D	P0903216-001 (1000ml)	[REDACTED]	WA/CC	1	
10	09/21/09 13:53	09210910.D	P0903216-002 (400ml)	[REDACTED]	WA/CC	2	
11	09/21/09 15:04	09210911.D	P0903255-001 (0.025ml)	[REDACTED]	WA/CC	4	case file
12	09/21/09 15:55	09210912.D	P0903255-001 (0.025ml)	[REDACTED]	WA/CC	4	
13	09/21/09 16:53	09210913.D	P0903255-001dup (0.025ml)	[REDACTED]	WA/CC	4	Passed
14	09/21/09 17:55	09210914.D	P0903217-001 (3ml)	[REDACTED]	WA/CC	4	
15	09/21/09 19:06	09210915.D	P0903217-002 (400ml)	[REDACTED]	WA/CC	1	
16	09/21/09 19:46	09210916.D	blank (200ml)		WA/CC	4	
17	09/21/09 20:26	09210917.D	P0903217-003 (400ml)	[REDACTED]	WA/CC	2	
18	09/21/09 21:08	09210918.D	P0903217-004 (1000ml)	[REDACTED]	WA/CC	3	
19	09/21/09 21:48	09210919.D	P0903239-003 (15ml)	[REDACTED]	WA/CC	6	Not used - IS failed

cc
9-22-09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/22/09 6:35	09220901.D	25ng TO-15 CCV STD	S20-09140901/S20-08240903	WA/CC	4	Passed
2	09/22/09 7:37	09220902.D	TO-15 Method Blank (1000mL)	S20-09140901	WA/CC	14	Passed
3	09/22/09 8:44	09220903.D	25ng TO-15 LCS STD	S20-09140901/S20-09160904	WA/CC	5	Passed
4	09/22/09 9:24	09220904.D	25ng TO-15 LCSD STD	S20-09140901/S20-09160904	WA/CC	5	Passed
5	09/22/09 10:04	09220905.D	P0903211-008 dil (25mL)	[REDACTED]	WA/CC	7	
6	09/22/09 11:07	09220906.D	P0903217-002 dil (100ml)	[REDACTED]	WA/CC	1	
7	09/22/09 11:48	09220907.D	P0903217-002 dil dup(100ml)	[REDACTED]	WA/CC	1	Passed
8	09/22/09 13:05	09220908.D	P0903255-001 0.01ml	[REDACTED]	WA/CC	8	
9	09/22/09 14:23	09220909.D	25ng ARCADIS STD Check	[REDACTED]	WA/CC	16	
10	09/22/09 15:10	09220910.D	25ng APH CCV STD	S20-09140901/S20-09220905(check)	WA/CC	15	
11	09/22/09 16:11	09220911.D	25ng TO-15 CCV STD	S20-09140901/S20-08240903	WA/CC	4	Passed
12	09/22/09 17:07	09220912.D	TO-15 Method Blank (1000ml)	S20-09140901	WA/CC	14	Passed
13	09/22/09 18:20	09220913.D	25ng TO-15 LCS STD	S20-09140901/S20-09160904	WA/CC	5	Passed
14	09/22/09 19:00	09220914.D	P0903217-002 (400ml)	[REDACTED]	WA/CC	1	