
LABORATORY REPORT

September 16, 2009

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

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on August 21, 2009. For your reference, these analyses have been assigned our service request number P0902899.

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 375 pages.

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

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

Respectfully submitted,

Columbia Analytical Services, Inc.



Kate Aguilera
Project Manager

Client: Environmental Health & Engineering, Incorporated CAS Project No: P0902899
Project: 16512

CASE NARRATIVE

The samples were received intact under chain of custody on August 21, 2009 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

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

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

Client: Environmental Health & Engineering, Incorporated
 Project: 16512

Folder: P0902899

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pf1 (Hg)	Pi2 (Hg)	Pf2 (psig)	Cont ID	Order #	FC ID	Bottle Order #
P0902899-001.01	102515	6.0 L-Summa Canister Ambient	-12.8	-6.3	3.5			AC00687	14275		
P0902899-002.01	102516	6.0 L-Summa Canister Ambient	-7.0	-3.4	3.5			AC01129	14275		
P0902899-003.01	102517	6.0 L-Summa Canister Ambient	-7.0	-3.4	3.5			AC01355	14275		
P0902899-004.01	102518	6.0 L-Summa Canister Ambient	-2.1	-1.0	3.5			AC01011	14275		
P0902899-005.01	102519	6.0 L-Summa Canister Ambient	-5.7	-2.8	3.5			AC00729	14275		
P0902899-006.01	102520	6.0 L-Summa Canister Ambient	-29.1	-14.3	3.5			AC01328	14275		

Miscellaneous Items - received

- AVG01154
- AVG00881
- FC00384
- AVG01171
- FC00298
- AVG00940
- FC00538
- FC00615
- FC00232
- AVG01024
- FC00386
- AVG00157

P0902899

DATE: 8/20/09

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

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

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
-12.8 102515	Summa	EPA TO-15	2 HR FLOW 10:30
-1.0 102516	↓		↓ ↓
-7.0 102517			
-21 102518			
-5.7 102519			
-29.1 102520			

Special instructions:

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

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

Relinquished by: W. Carlson of Environmental Health & Engineering, Inc. Date: 8/19/09

Received by: FEDEX of (company name) _____ Date: _____

Relinquished by: FEDEX of (company name) _____ Date: _____

Received by: [Signature] of (company name) CAS Date: 08/20/09 0940

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data

Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Incorporated

Work order: P0902899

Project: Project # 16512 / 16512

Sample(s) received on: 8/21/2009

Date opened: 8/21/2009

by: ADAVID

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

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

Lab Sample ID	Container Description	Required pH*	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0902899-001.01	6.0 L Ambient Can					
P0902899-002.01	6.0 L Ambient Can					
P0902899-003.01	6.0 L Ambient Can					
P0902899-004.01	6.0 L Ambient Can					
P0902899-005.01	6.0 L Ambient Can					
P0902899-006.01	6.0 L Ambient Can					

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

Chain of Custody is missing time collected _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12); RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102515
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00687

CAS Project ID: P0902899
 CAS Sample ID: P0902899-001

Date Collected: 8/20/09
 Date Received: 8/21/09
 Date Analyzed: 8/28/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -6.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.17

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	65	1.1	38	0.63	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	1.1	0.54	0.22	
74-87-3	Chloromethane	0.97	0.22	0.47	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	ND	0.16	
75-01-4	Vinyl Chloride	ND	0.22	ND	0.085	
106-99-0	1,3-Butadiene	ND	0.22	ND	0.098	
74-83-9	Bromomethane	ND	0.22	ND	0.056	
75-00-3	Chloroethane	ND	0.22	ND	0.082	
64-17-5	Ethanol	1,500	11	820	5.8	D
75-05-8	Acetonitrile	180	1.1	110	0.65	
107-02-8	Acrolein	6.3	1.1	2.7	0.47	
67-64-1	Acetone	160	11	68	4.6	
75-69-4	Trichlorofluoromethane	2.5	0.22	0.45	0.039	
67-63-0	2-Propanol (Isopropyl Alcohol)	240	1.1	97	0.44	
107-13-1	Acrylonitrile	ND	1.1	ND	0.50	
75-35-4	1,1-Dichloroethene	ND	0.22	ND	0.055	
75-09-2	Methylene Chloride	ND	1.1	ND	0.31	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	ND	0.069	
76-13-1	Trichlorotrifluoroethane	0.49	0.22	0.064	0.028	
75-15-0	Carbon Disulfide	5.7	1.1	1.8	0.35	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	ND	0.055	
75-34-3	1,1-Dichloroethane	ND	0.22	ND	0.054	
1634-04-4	Methyl tert-Butyl Ether	ND	0.22	ND	0.060	
108-05-4	Vinyl Acetate	ND	11	ND	3.1	
78-93-3	2-Butanone (MEK)	31	1.1	10	0.37	

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

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

D = The reported result is from a dilution.

Verified By: Date:

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102515
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00687

CAS Project ID: P0902899
CAS Sample ID: P0902899-001

Date Collected: 8/20/09
Date Received: 8/21/09
Date Analyzed: 8/28/09
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -6.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.22	ND	0.055	
141-78-6	Ethyl Acetate	63	2.2	18	0.60	
110-54-3	n-Hexane	1.2	1.1	0.34	0.31	
67-66-3	Chloroform	1.7	0.22	0.35	0.044	
109-99-9	Tetrahydrofuran (THF)	14	1.1	4.9	0.37	
107-06-2	1,2-Dichloroethane	5.0	0.22	1.2	0.054	
71-55-6	1,1,1-Trichloroethane	ND	0.22	ND	0.040	
71-43-2	Benzene	1.7	0.22	0.53	0.068	
56-23-5	Carbon Tetrachloride	0.93	0.22	0.15	0.035	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
78-87-5	1,2-Dichloropropane	ND	0.22	ND	0.047	
75-27-4	Bromodichloromethane	ND	0.22	ND	0.032	
79-01-6	Trichloroethene	ND	0.22	ND	0.040	
123-91-1	1,4-Dioxane	ND	1.1	ND	0.30	
80-62-6	Methyl Methacrylate	ND	2.2	ND	0.53	
142-82-5	n-Heptane	1.7	1.1	0.41	0.26	
10061-01-5	cis-1,3-Dichloropropene	3.7	1.1	0.81	0.24	
108-10-1	4-Methyl-2-pentanone	1.5	1.1	0.37	0.26	
10061-02-6	trans-1,3-Dichloropropene	2.7	1.1	0.60	0.24	
79-00-5	1,1,2-Trichloroethane	ND	0.22	ND	0.040	
108-88-3	Toluene	15	1.1	4.0	0.29	
591-78-6	2-Hexanone	1.3	1.1	0.31	0.26	
124-48-1	Dibromochloromethane	ND	0.22	ND	0.025	
106-93-4	1,2-Dibromoethane	ND	0.22	ND	0.028	
123-86-4	n-Butyl Acetate	7.2	1.1	1.5	0.23	

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102515
Client Project ID: 16512

CAS Project ID: P0902899
 CAS Sample ID: P0902899-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00687

Date Collected: 8/20/09
 Date Received: 8/21/09
 Date Analyzed: 8/28/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -6.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.6	1.1	0.35	0.23	
127-18-4	Tetrachloroethene	ND	0.22	ND	0.032	
108-90-7	Chlorobenzene	ND	0.22	ND	0.047	
100-41-4	Ethylbenzene	1.7	1.1	0.39	0.25	
179601-23-1	m,p-Xylenes	2.8	1.1	0.64	0.25	
75-25-2	Bromoform	ND	1.1	ND	0.10	
100-42-5	Styrene	2.9	1.1	0.68	0.25	
95-47-6	o-Xylene	1.1	1.1	0.26	0.25	
111-84-2	n-Nonane	1.5	1.1	0.29	0.21	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	ND	0.032	
98-82-8	Cumene	ND	1.1	ND	0.22	
80-56-8	alpha-Pinene	130	1.1	23	0.19	
103-65-1	n-Propylbenzene	ND	1.1	ND	0.22	
622-96-8	4-Ethyltoluene	ND	1.1	ND	0.22	
108-67-8	1,3,5-Trimethylbenzene	ND	1.1	ND	0.22	
95-63-6	1,2,4-Trimethylbenzene	1.2	1.1	0.24	0.22	
100-44-7	Benzyl Chloride	ND	0.22	ND	0.042	
541-73-1	1,3-Dichlorobenzene	ND	0.22	ND	0.036	
106-46-7	1,4-Dichlorobenzene	0.24	0.22	0.040	0.036	
95-50-1	1,2-Dichlorobenzene	ND	0.22	ND	0.036	
5989-27-5	d-Limonene	66	1.1	12	0.19	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
91-20-3	Naphthalene	ND	1.1	ND	0.21	
87-68-3	Hexachlorobutadiene	ND	1.1	ND	0.10	

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

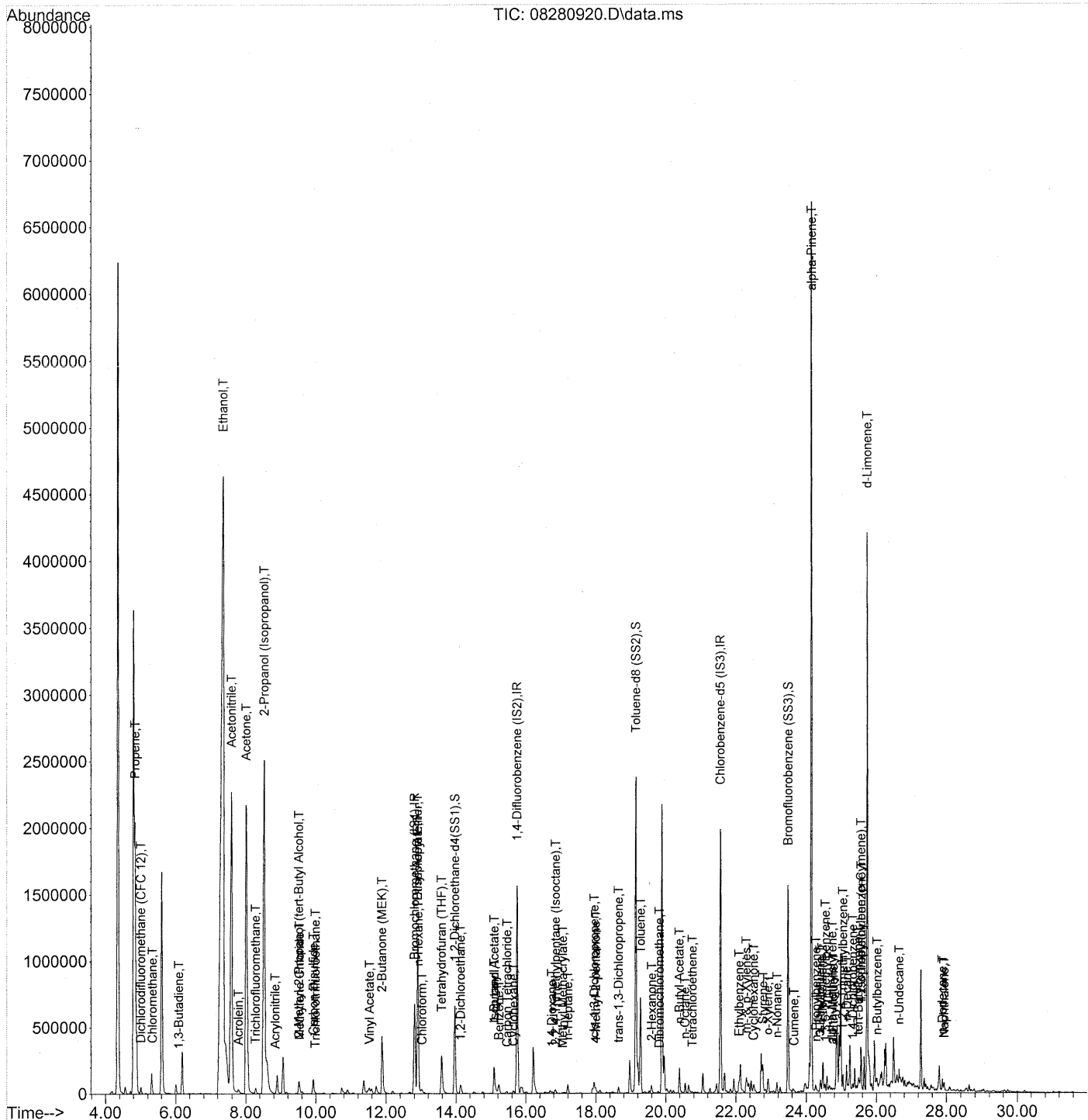
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 9/2/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 15:45:15 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml) ✓
 Misc : Env. H & E 102515
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	357481	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1829297	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	853846	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	652737	25.824	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	103.28%	
57) Toluene-d8 (SS2)	19.15	98	2093548	25.792	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	103.16%	
73) Bromofluorobenzene (SS3)	23.49	174	554124	24.105	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	96.40%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	938821	29.938	ng	97
3) Dichlorodifluoromethan...	5.01	85	54798	1.224	ng	98
4) Chloromethane	5.34	50	18693	0.448	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	585	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	1568	0.054	ng #	75
8) Bromomethane	6.59	94	463	N.D.		
9) Chloroethane	6.92	64	118	N.D.		
10) Ethanol	7.36	45	15781221	802.279	ng	99
11) Acetonitrile	7.59	41	4082536	85.044	ng	99
12) Acrolein	7.79	56	37110	2.893	ng	98
13) Acetone	8.01	58	1480529	73.964	ng	93
14) Trichlorofluoromethane	8.28	101	44969	1.175	ng	97
15) 2-Propanol (Isopropanol)	8.53	45	5996945	109.398	ng	94
16) Acrylonitrile	8.84	53	2069	0.071	ng	95
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.51	59	25253	0.454	ng #	1
19) Methylene Chloride	9.53	84	11616	0.465	ng	84
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.99	151	3879	0.226	ng	94
22) Carbon Disulfide	9.93	76	230420	2.614	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.38	73	691	N.D.		
26) Vinyl Acetate	11.53	86	15320	3.534	ng #	67
27) 2-Butanone (MEK)	11.89	72	196438	14.077	ng #	80
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.90	87	4628	0.234	ng #	1
30) Ethyl Acetate	12.90	61	264724	29.253	ng	94
31) n-Hexane	12.92	57	24538	0.556	ng	92

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 15:45:15 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	13.02	83	29163	0.790 ng	97
34) Tetrahydrofuran (THF)	13.59	72	96201	6.631 ng #	63
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	14.13	62	65401	2.315 ng	99
38) 1,1,1-Trichloroethane	14.53	97	757	N.D.	
39) Isopropyl Acetate	15.09	61	3651	0.245 ng #	1
40) 1-Butanol	15.09	56	188013	7.931 ng	83
41) Benzene	15.23	78	77075	0.783 ng	97
42) Carbon Tetrachloride	15.46	117	11768	0.428 ng	100
43) Cyclohexane	15.65	84	10854	0.285 ng #	77
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	
45) 1,2-Dichloropropane	16.44	63	780	N.D.	
46) Bromodichloromethane	0.00	83	0	N.D. d	
47) Trichloroethene	16.78	130	123	N.D.	
48) 1,4-Dioxane	16.75	88	1414	0.081 ng #	56
49) 2,2,4-Trimethylpentane...	16.85	57	19823	0.175 ng	73
50) Methyl Methacrylate	17.06	100	593	0.060 ng #	1
51) n-Heptane	17.20	71	20323	0.776 ng	92
52) cis-1,3-Dichloropropene	17.95	75	61407	1.689 ng	100
53) 4-Methyl-2-pentanone	18.00	58	14984	0.705 ng	93
54) trans-1,3-Dichloropropene	18.65	75	39624	1.246 ng	99
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d	
58) Toluene	19.28	91	686042	6.972 ng	99
59) 2-Hexanone	19.60	43	29979m	0.586 ng	
60) Dibromochloromethane	19.82	129	1108	0.053 ng	82
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	20.39	43	183898	3.296 ng	98
63) n-Octane	20.55	57	16378	0.747 ng	89
64) Tetrachloroethene	20.76	166	2421	0.099 ng	95
65) Chlorobenzene	21.66	112	2349	N.D.	
66) Ethylbenzene	22.09	91	82449	0.776 ng	97
67) m- & p-Xylenes	22.30	91	107442	1.276 ng	100
68) Bromoform	22.42	173	382	N.D.	
69) Styrene	22.77	104	83169	1.336 ng	100
70) o-Xylene	22.92	91	44265	0.522 ng	97
71) n-Nonane	23.17	43	35342	0.693 ng	89
72) 1,1,2,2-Tetrachloroethane	22.92	83	1687	N.D.	
74) Cumene	23.66	105	8454	0.077 ng	94
75) alpha-Pinene	24.15	93	3179237	58.656 ng	100
76) n-Propylbenzene	24.28	91	21624	0.159 ng	76
77) 3-Ethyltoluene	24.40	105	35839	0.348 ng	97
78) 4-Ethyltoluene	24.46	105	22311	0.216 ng	84
79) 1,3,5-Trimethylbenzene	24.55	105	15409	0.180 ng	96

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 15:45:15 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

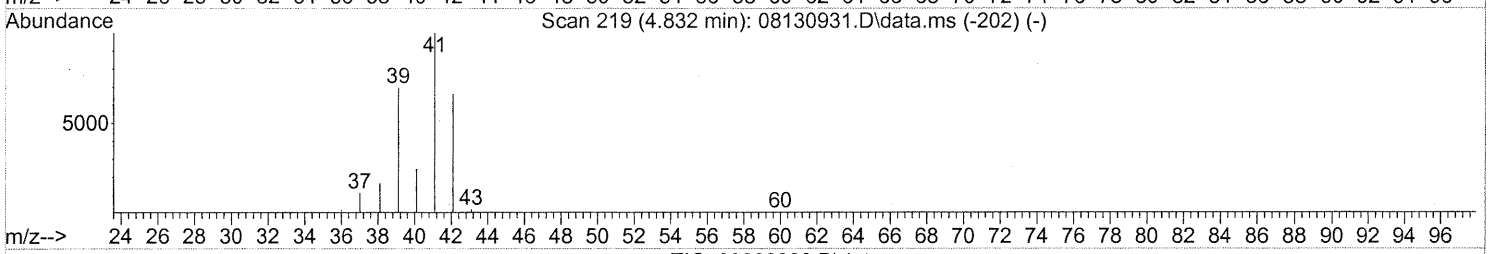
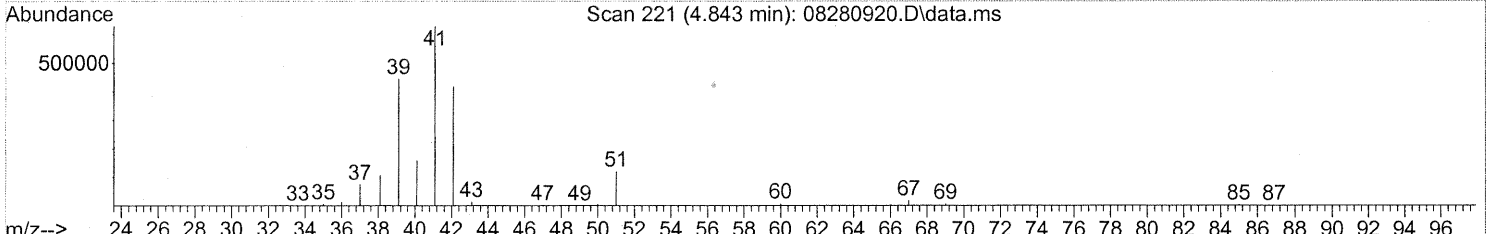
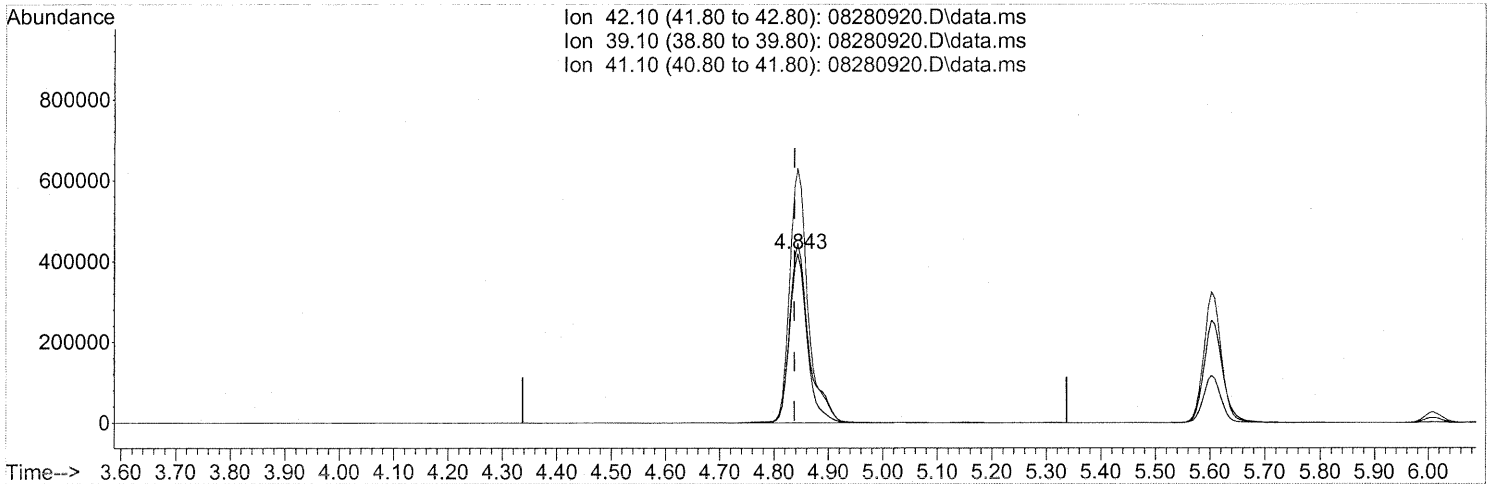
Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
80) alpha-Methylstyrene	24.74	118	4228	0.091 ng	92
81) 2-Ethyltoluene	24.78	105	15668	0.147 ng	96
82) 1,2,4-Trimethylbenzene	25.05	105	48509	0.534 ng	89
83) n-Decane	25.15	57	78134	1.478 ng	87
84) Benzyl Chloride	0.00	91	0	N.D. d	
85) 1,3-Dichlorobenzene	0.00	146	0	N.D. d	
86) 1,4-Dichlorobenzene	25.33	146	5577	0.112 ng	100
87) sec-Butylbenzene	25.38	105	2821	N.D.	
88) 4-Isopropyltoluene (p-...	25.56	119	153166	1.336 ng	97
89) 1,2,3-Trimethylbenzene	25.57	105	22051	0.240 ng	# 36
90) 1,2-Dichlorobenzene	0.00	146	0	N.D. d	
91) d-Limonene	25.74	68	1131452	30.446 ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	
93) n-Undecane	26.65	57	45057	0.825 ng	95
94) 1,2,4-Trichlorobenzene	27.80	180	1558	N.D.	
95) Naphthalene	27.94	128	45377	0.372 ng	99
96) n-Dodecane	27.89	57	32041	0.524 ng	95
97) Hexachlorobutadiene	0.00	225	0	N.D.	
98) Cyclohexanone	22.51	55	30130	0.972 ng	91
99) tert-Butylbenzene	25.49	119	4576	0.051 ng	100
100) n-Butylbenzene	26.02	91	25172	0.264 ng	# 48

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



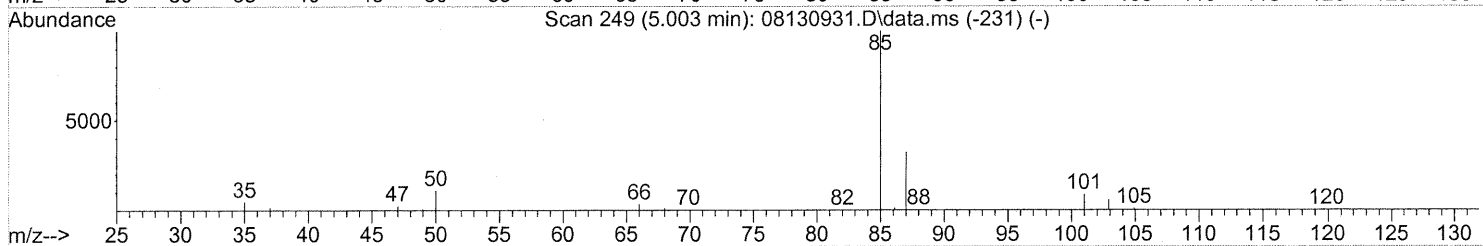
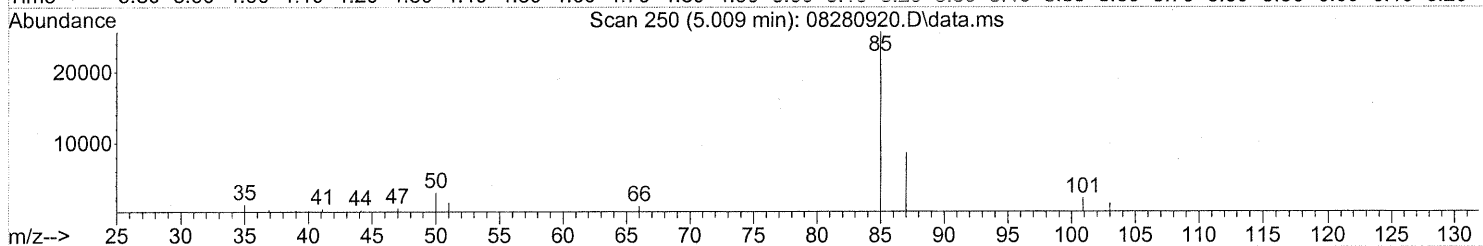
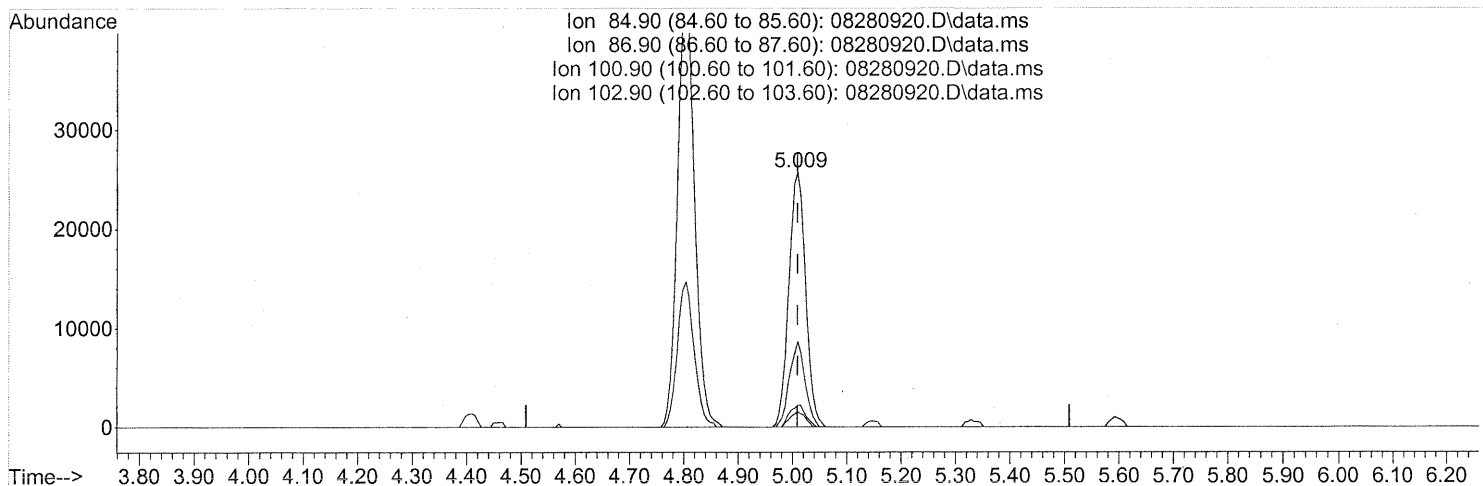
(2) Propene (T)
 4.843min (+0.006) 29.94ng
 response 938821

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	116.95
41.10	152.70	158.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.009min (0.000) 1.22ng

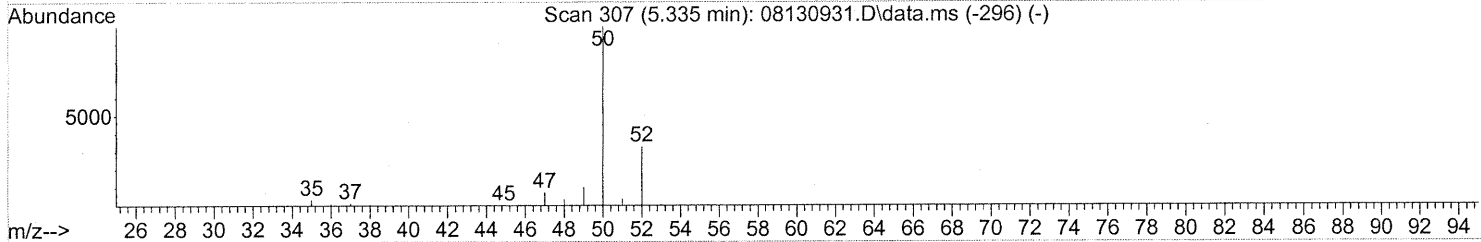
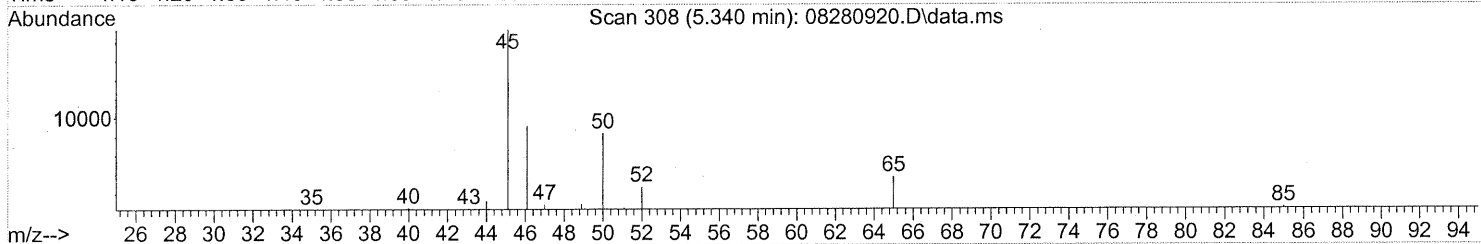
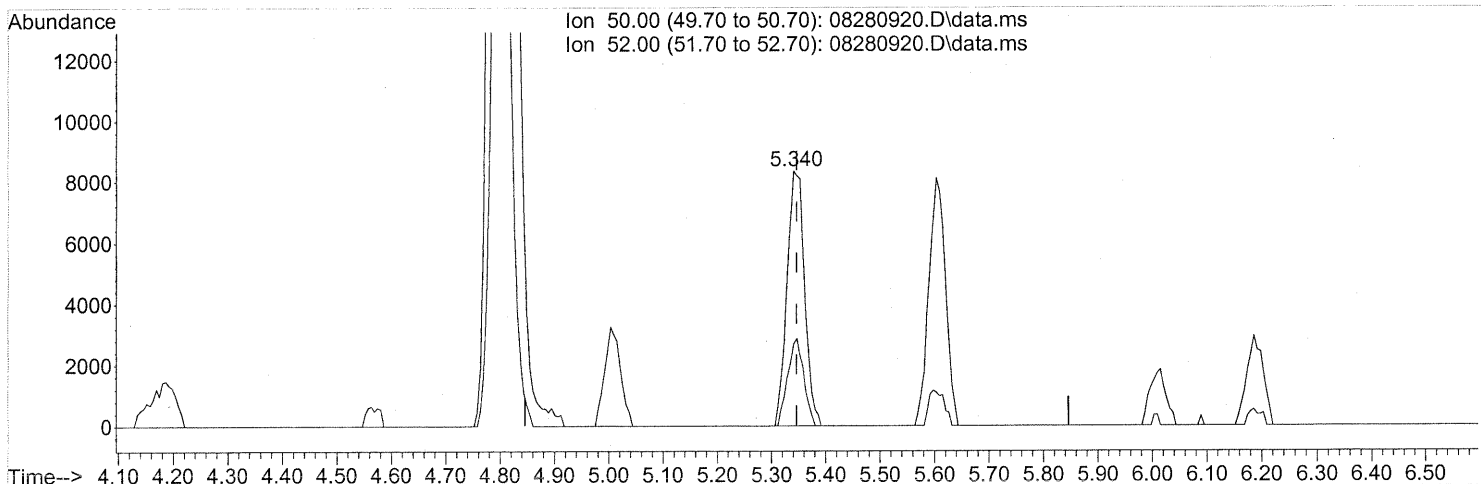
response 54798

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.23
100.90	9.10	8.17
102.90	5.50	5.28

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(4) Chloromethane (T)

5.340min (-0.006) 0.45ng

response 18693

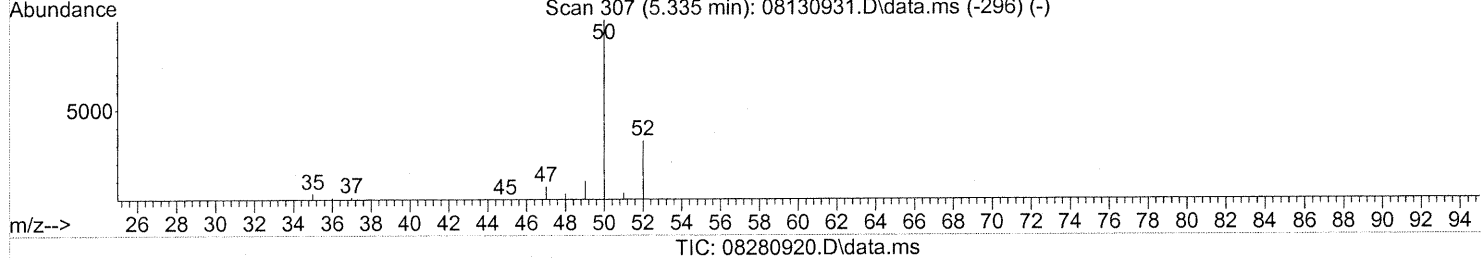
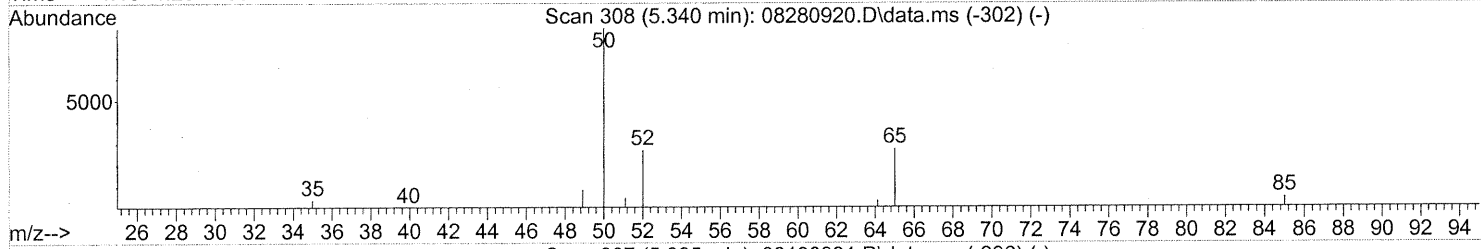
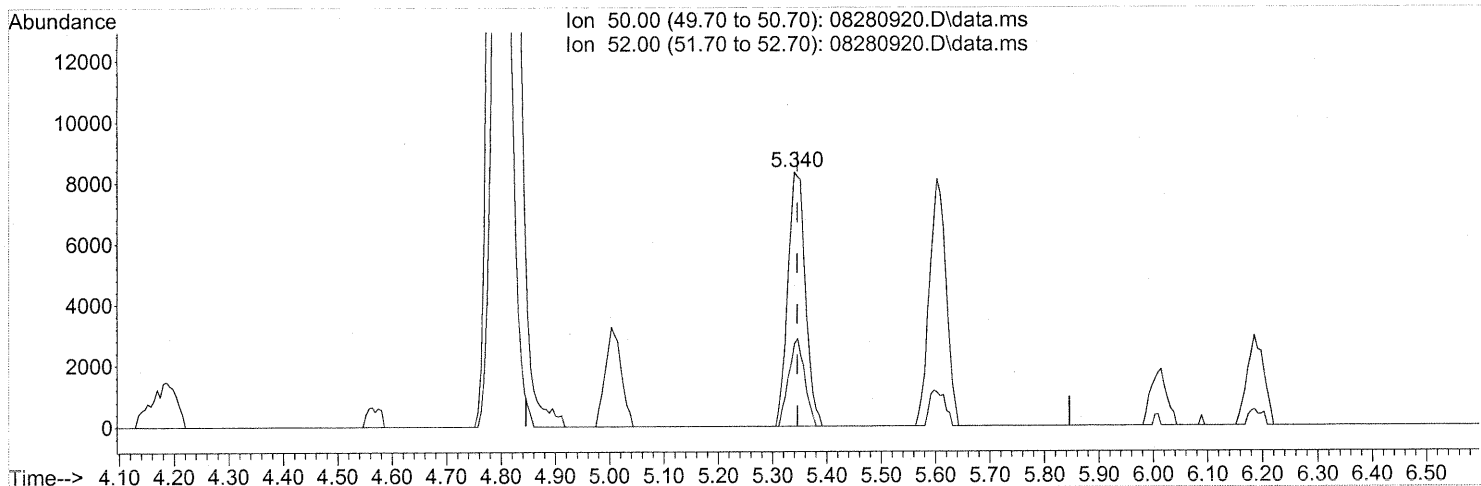
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.30
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.340min (-0.006) 0.45ng
 response 18693

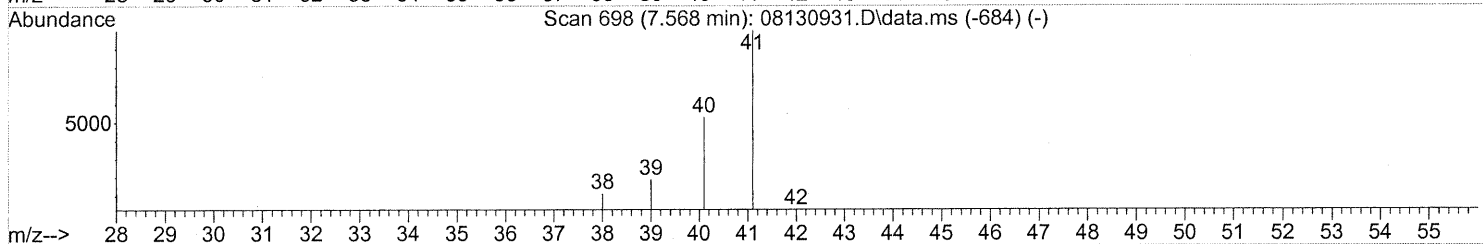
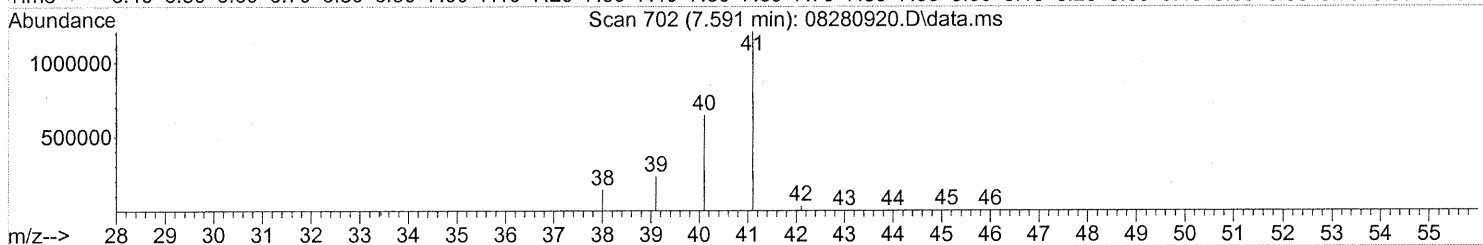
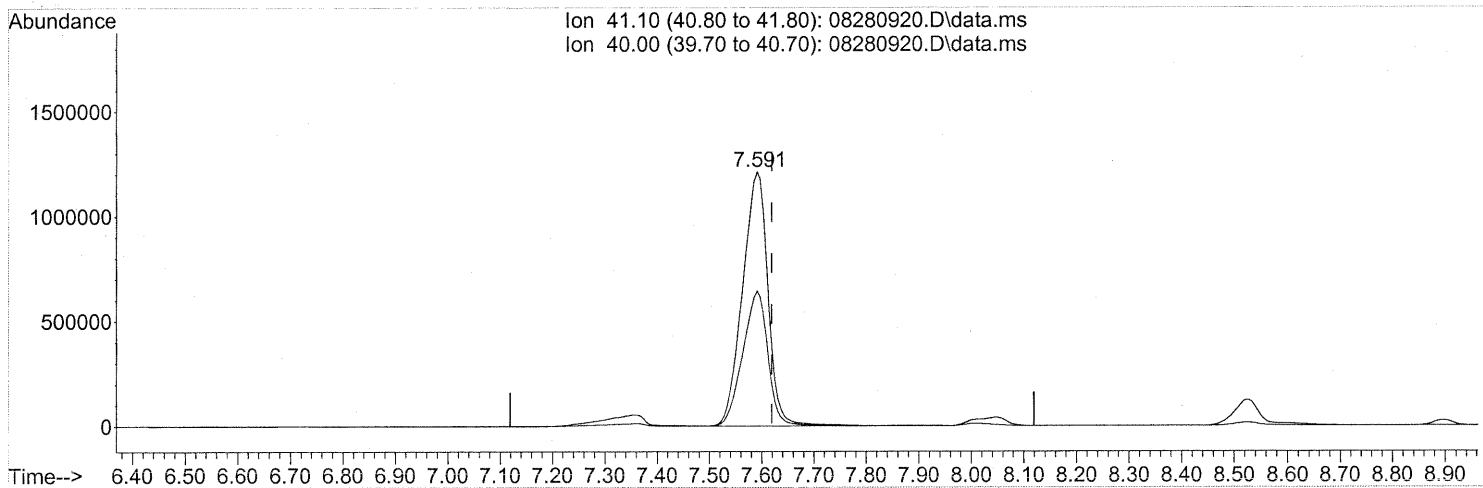
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.30
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
Em 8/31/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280920.D
Acq On : 28 Aug 2009 19:37
Operator : EM
Sample : P0902899-001 (1000ml)
Misc : Env. H & E 102515
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08280920.D\data.ms

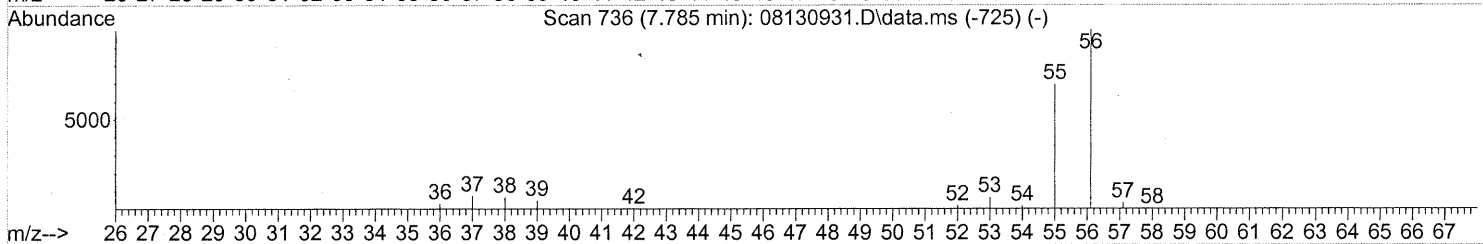
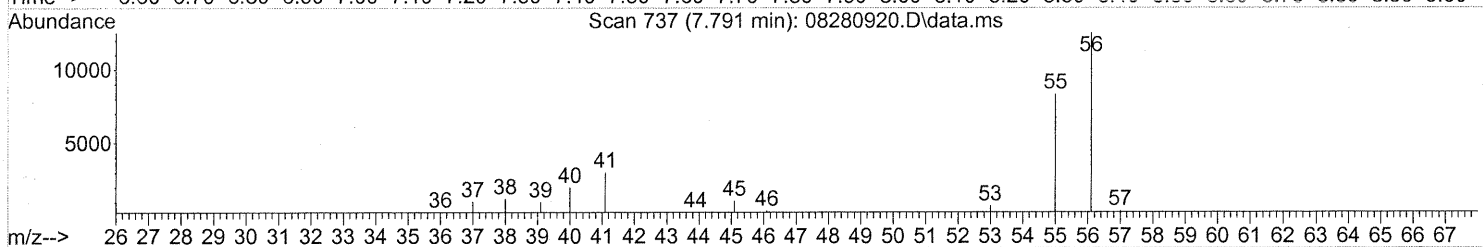
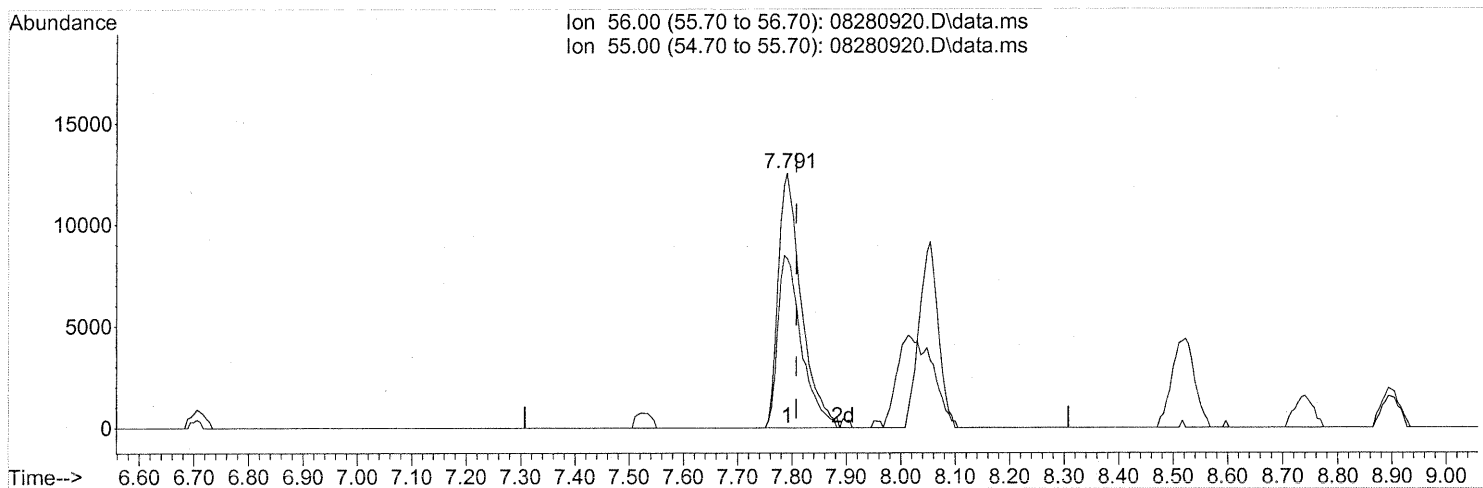
(11) Acetonitrile (T)
7.591min (-0.029) 85.04ng
response 4082536

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(12) Acrolein (T)

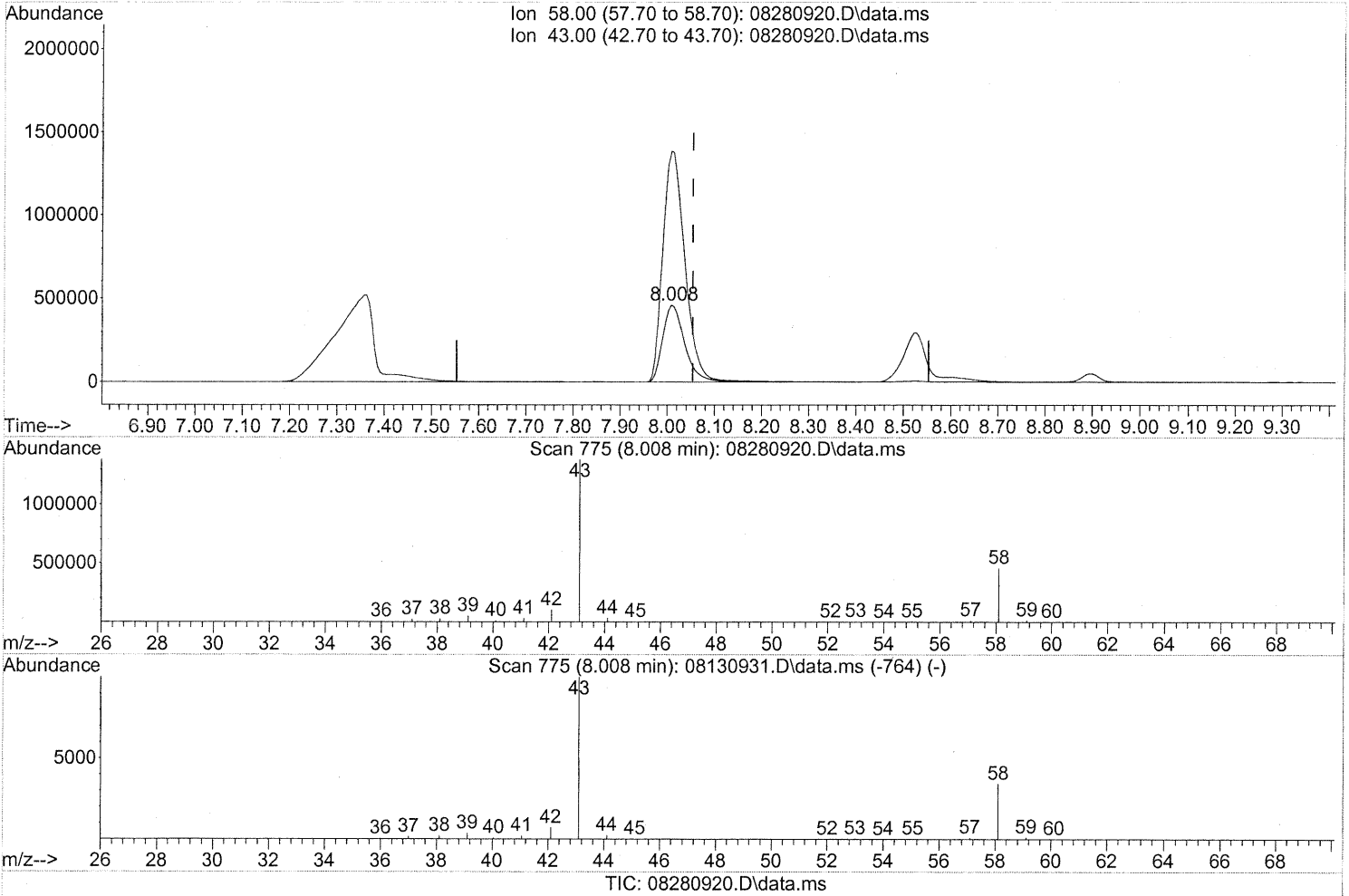
7.791min (-0.017) 2.89ng
 response 37110

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	68.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(13) Acetone (T)

8.008min (-0.046) 73.96ng

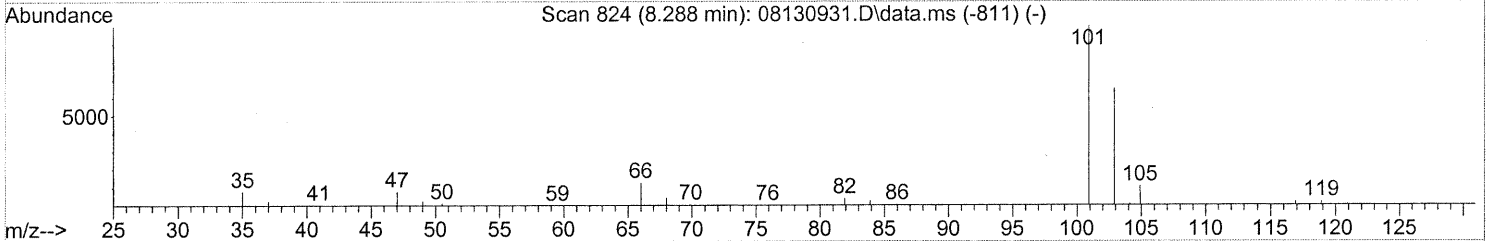
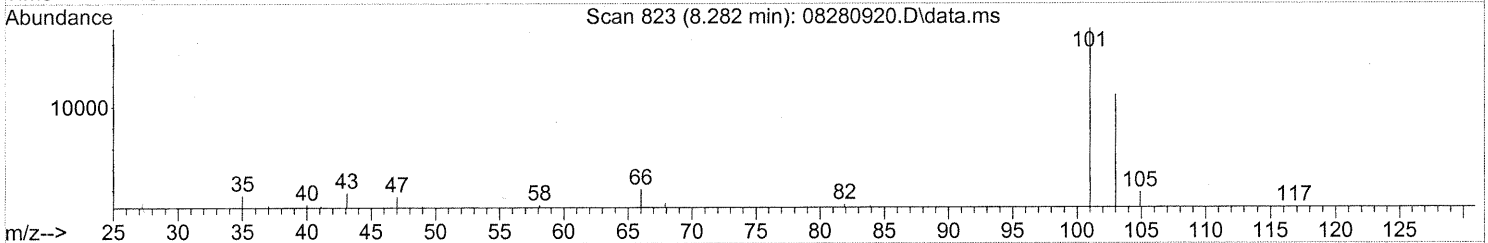
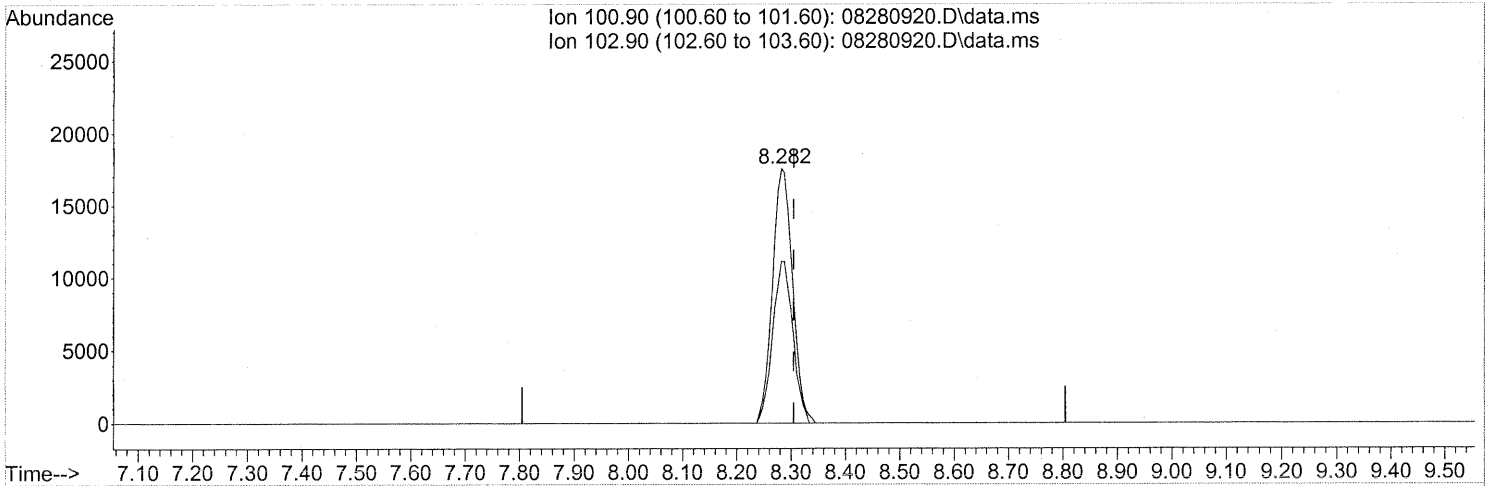
response 1480529

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	303.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 1.17ng

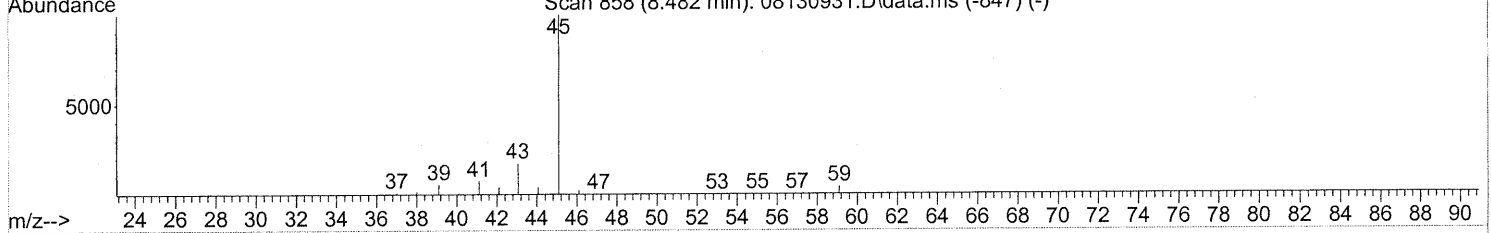
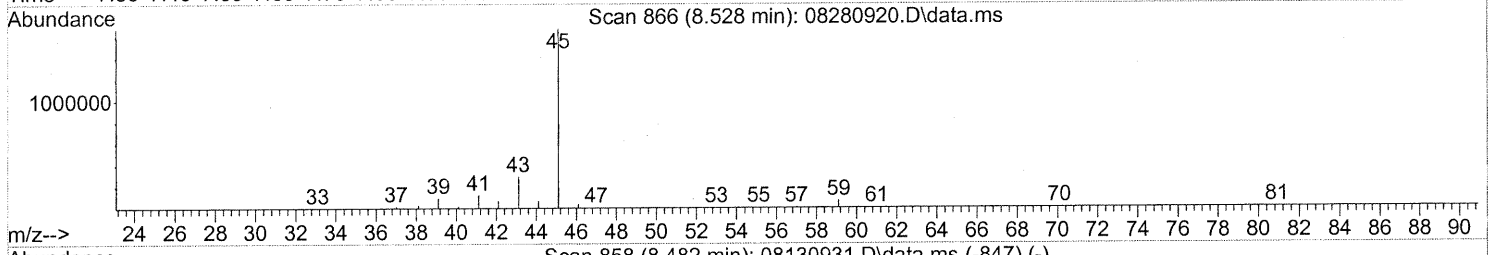
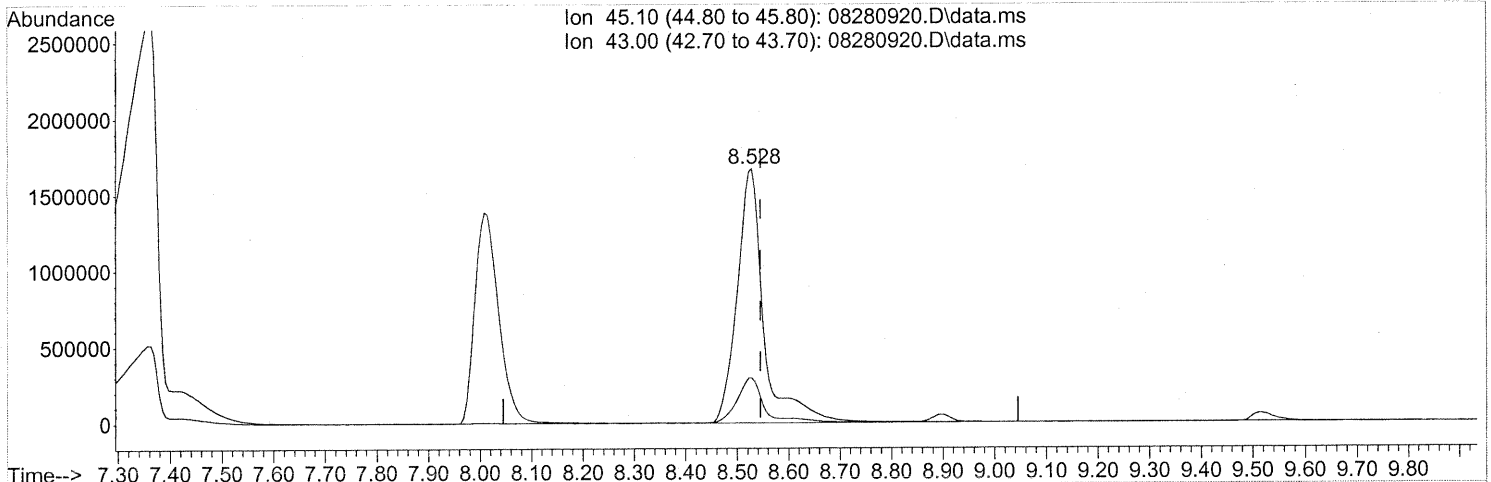
response 44969

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	63.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

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

8.528min (-0.017) 109.40ng

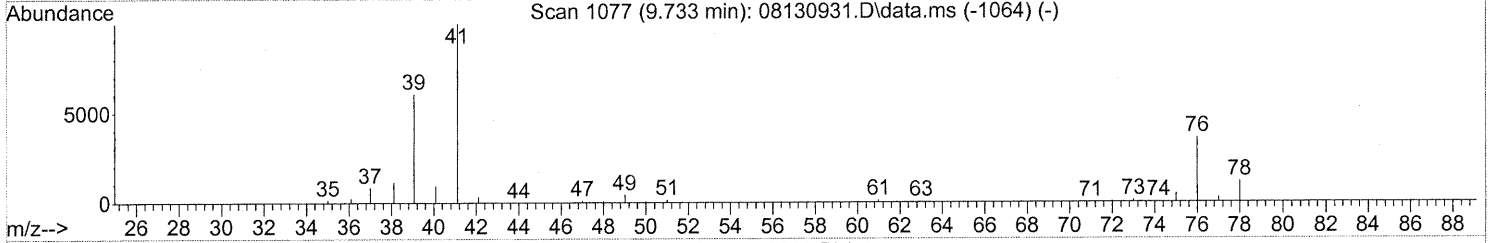
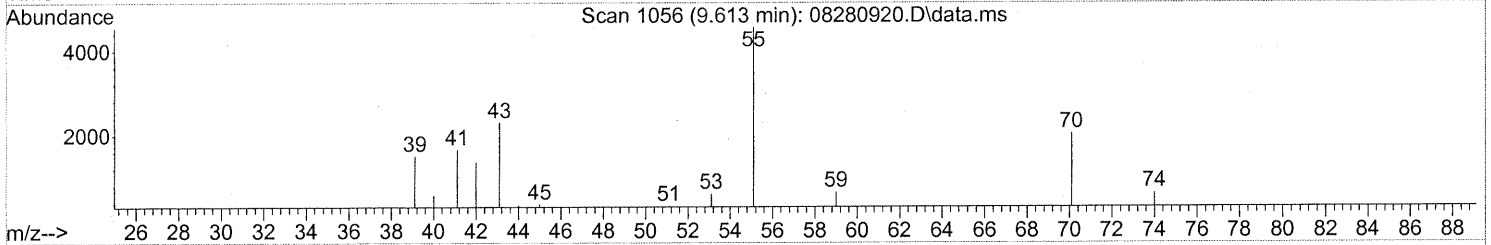
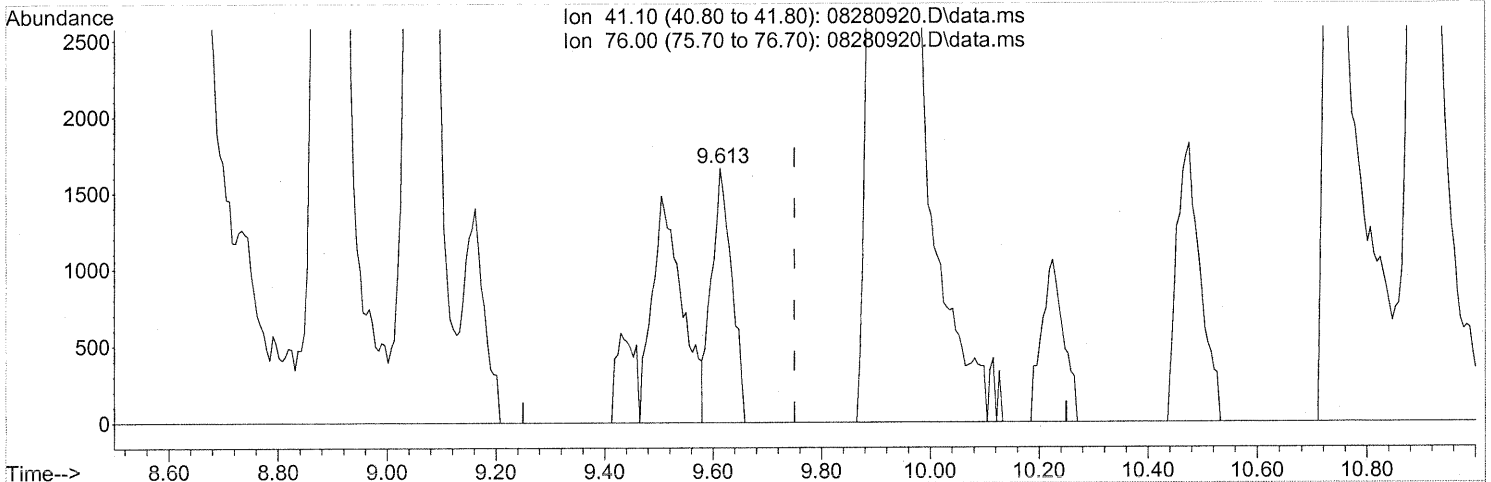
response 5996945

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

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

9.613min (-0.137) 0.13ng

response 4304

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

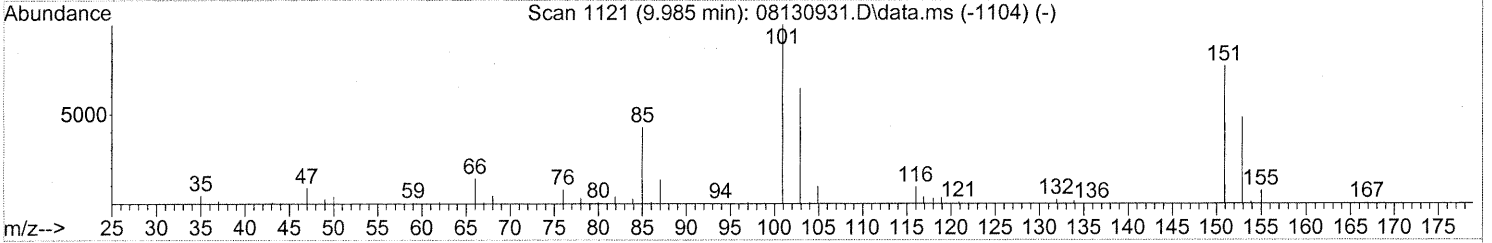
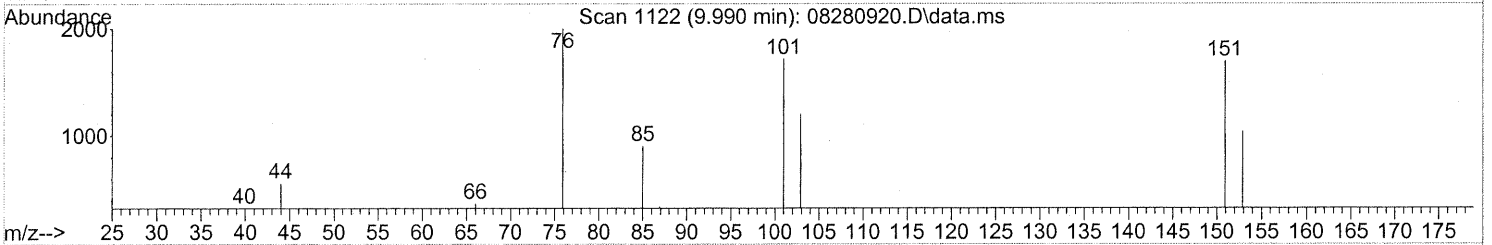
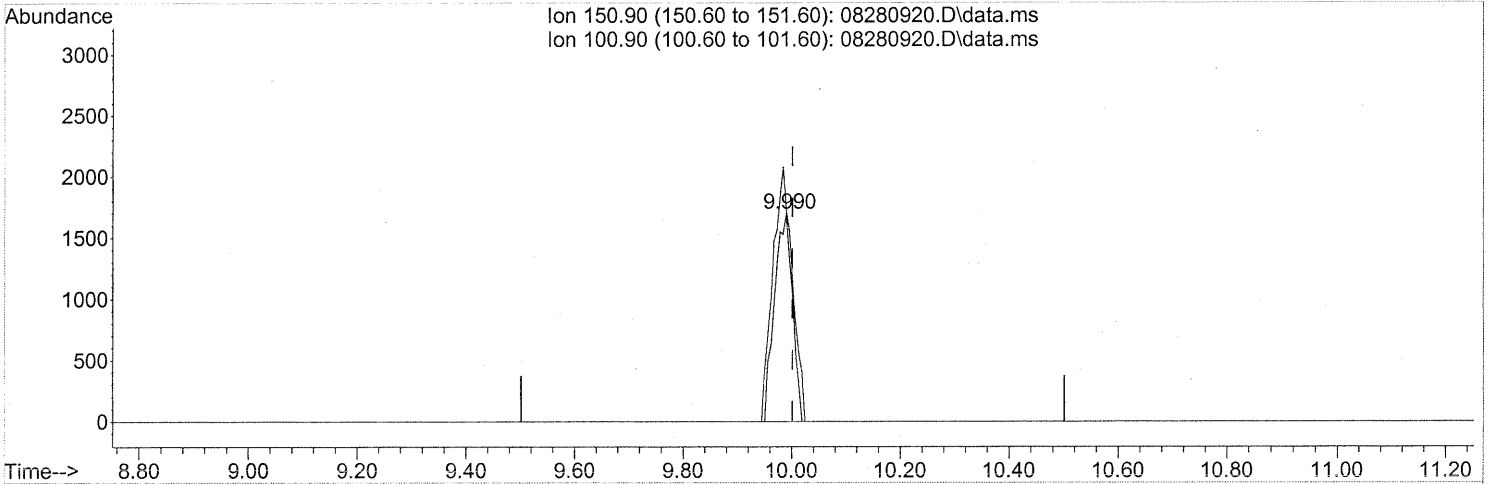
FP em 8/31/09

KE9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.990min (-0.011) 0.23ng

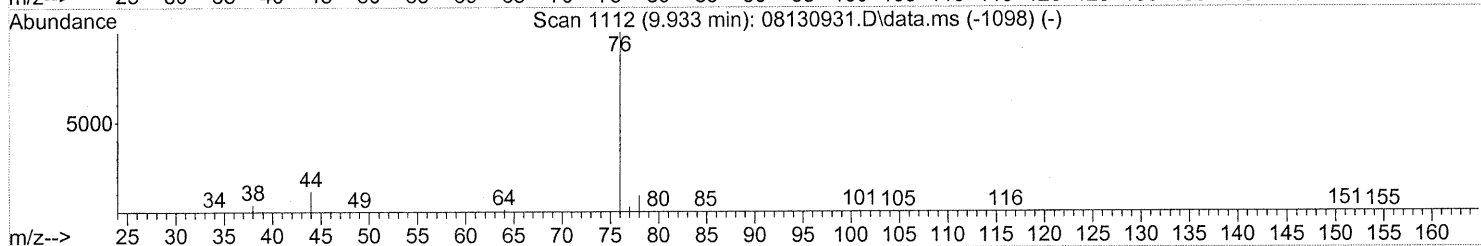
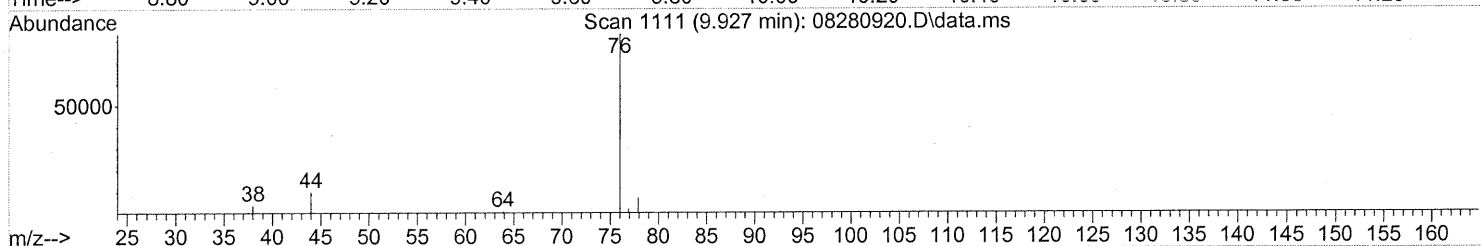
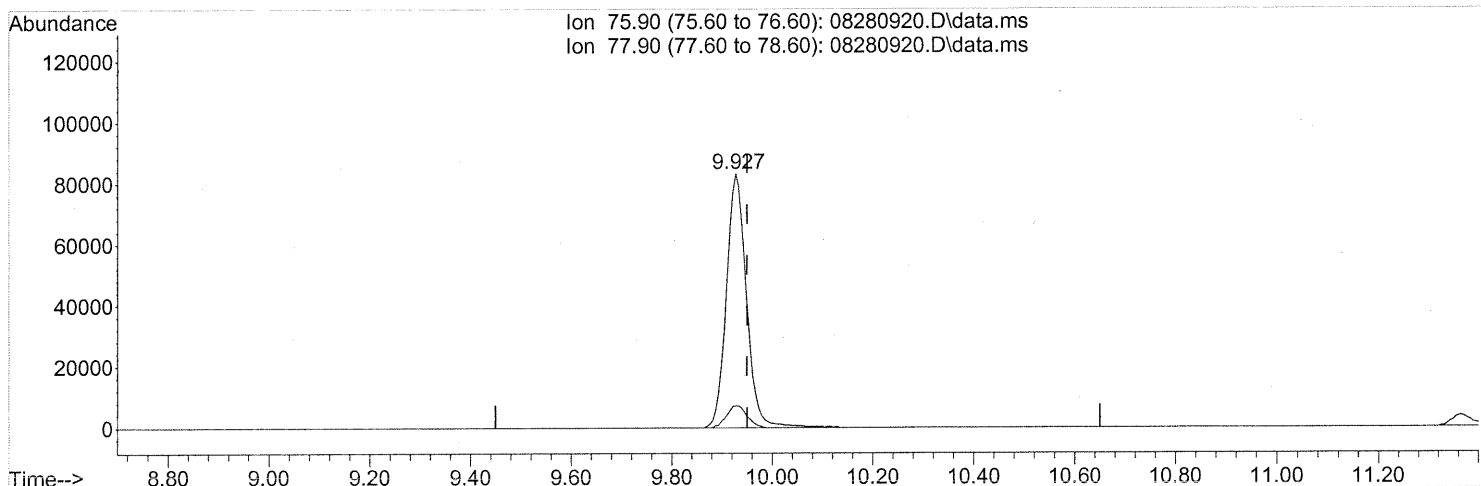
response 3879

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	134.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(22) Carbon Disulfide (T)

9.927min (-0.023) 2.61ng

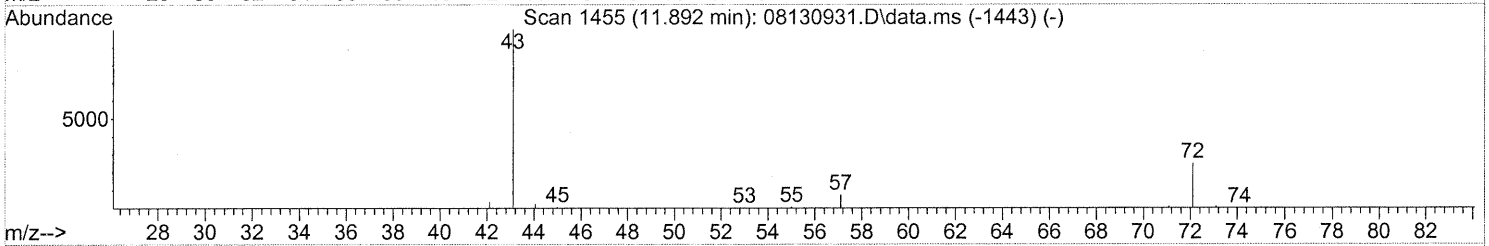
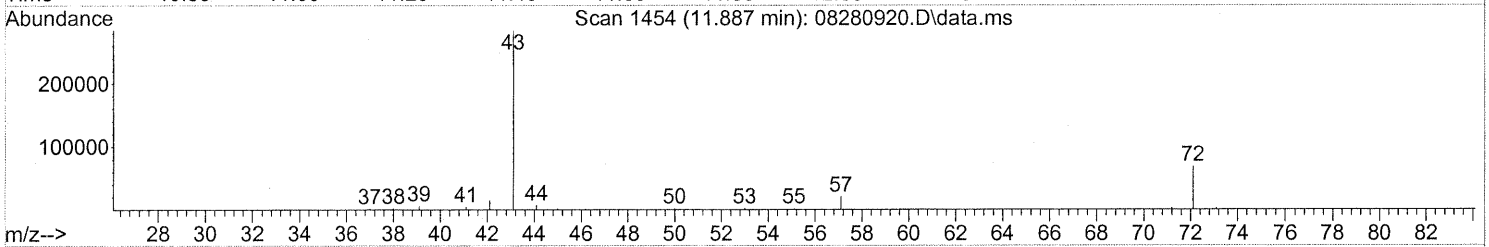
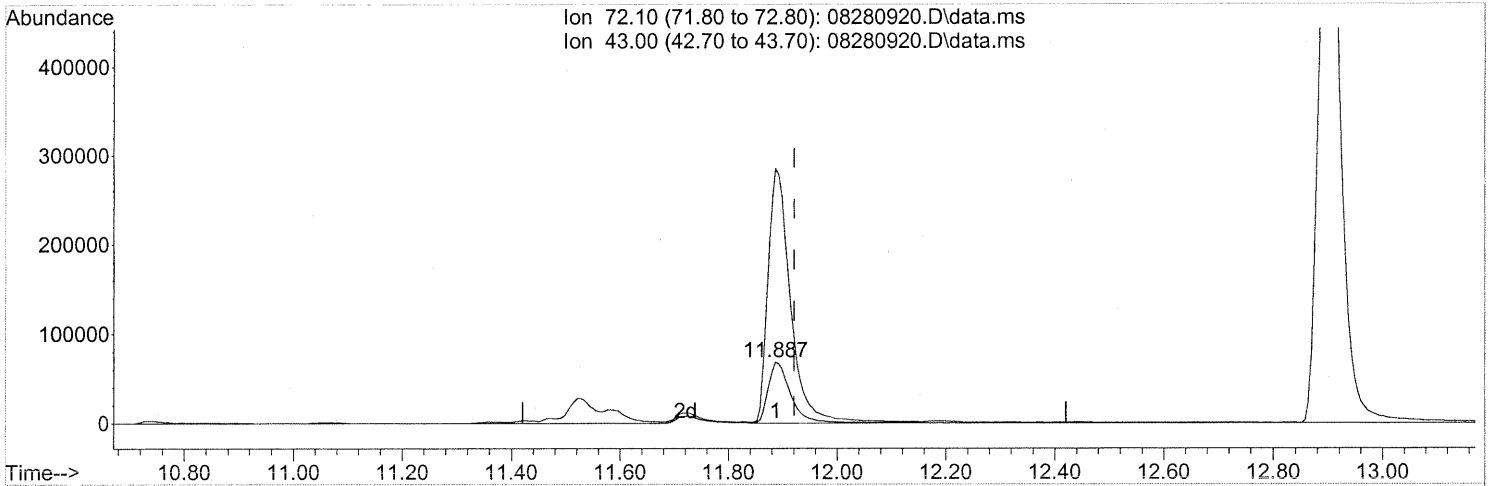
response 230420

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

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

11.887min (-0.034) 14.08ng

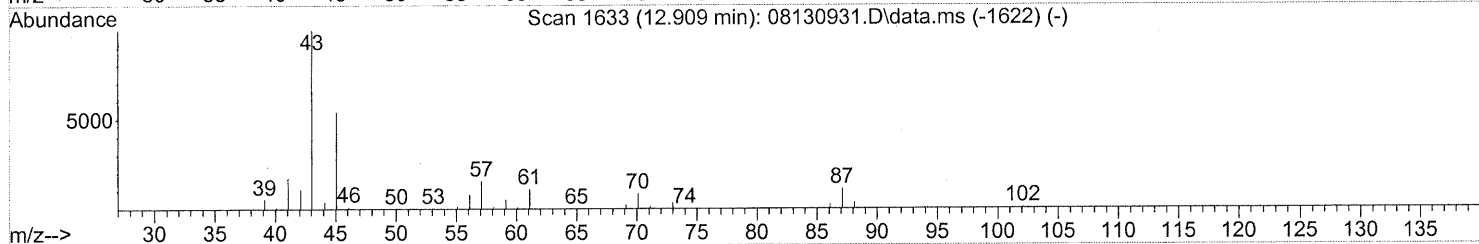
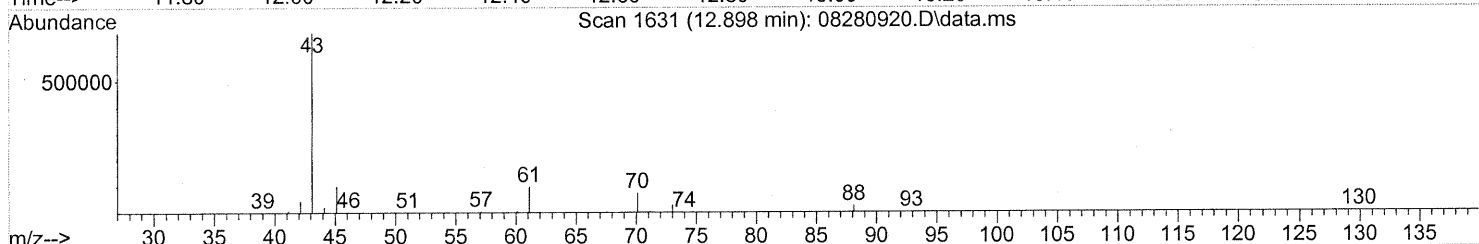
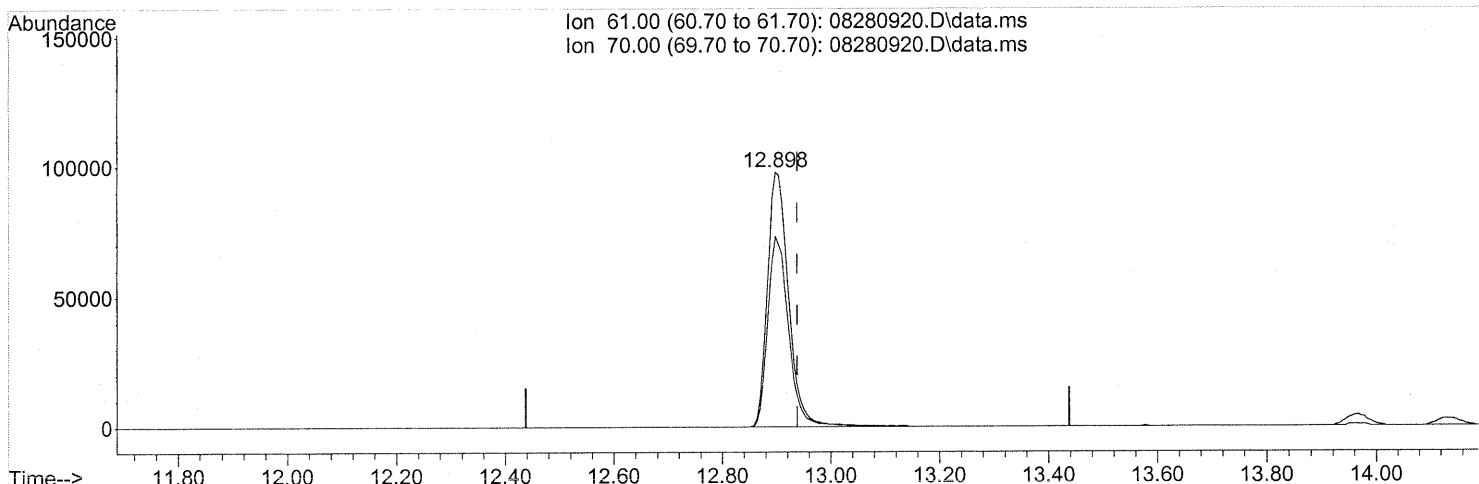
response 196438

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	411.36#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(30) Ethyl Acetate (T)

12.898min (-0.040) 29.25ng

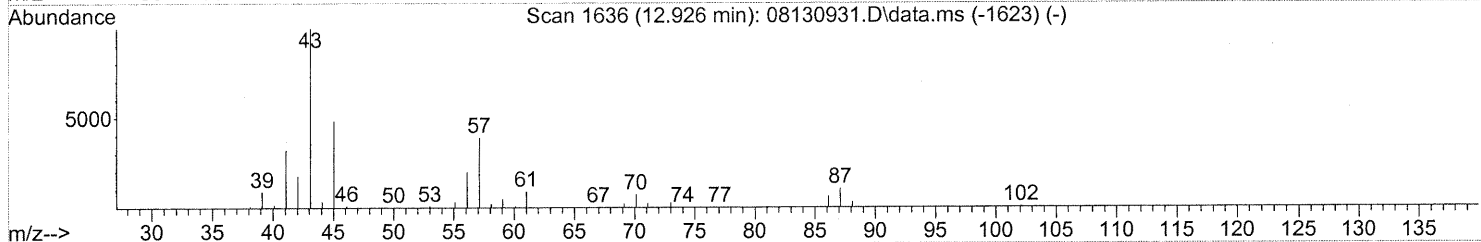
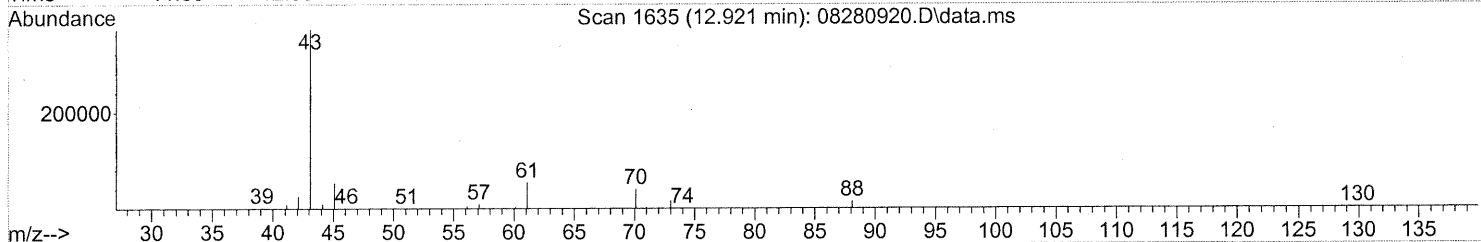
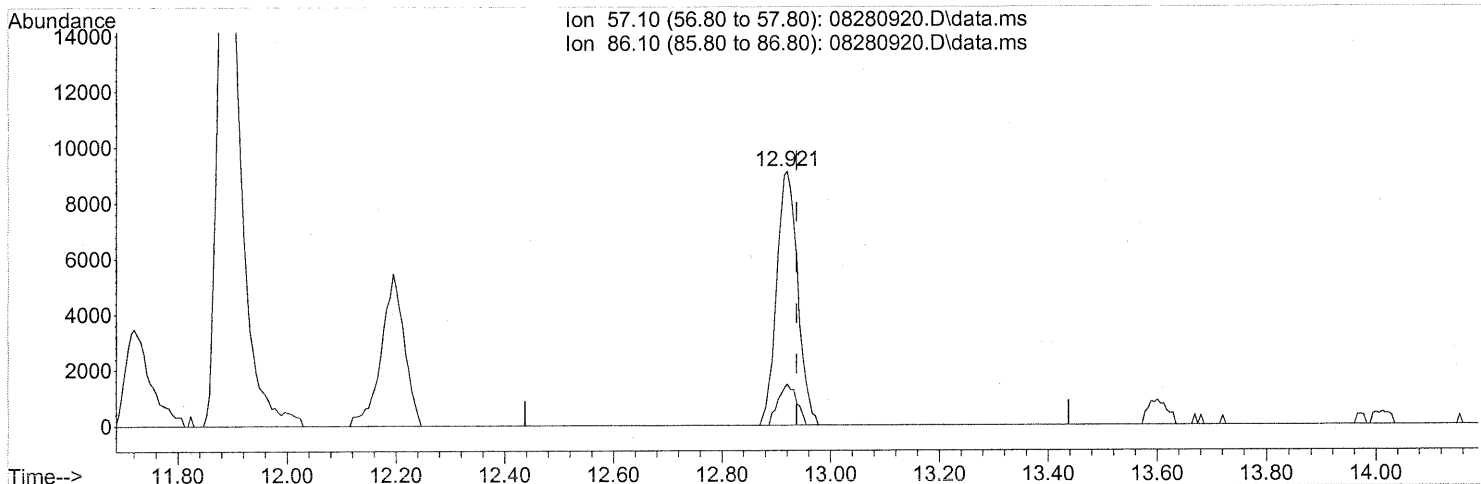
response 264724

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	73.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

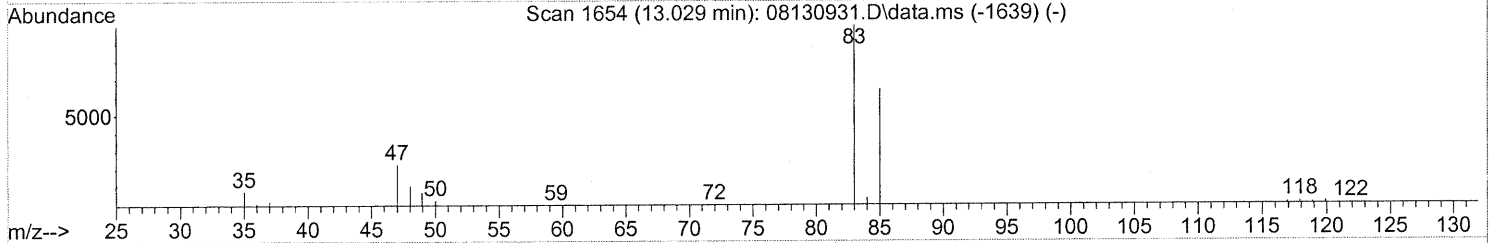
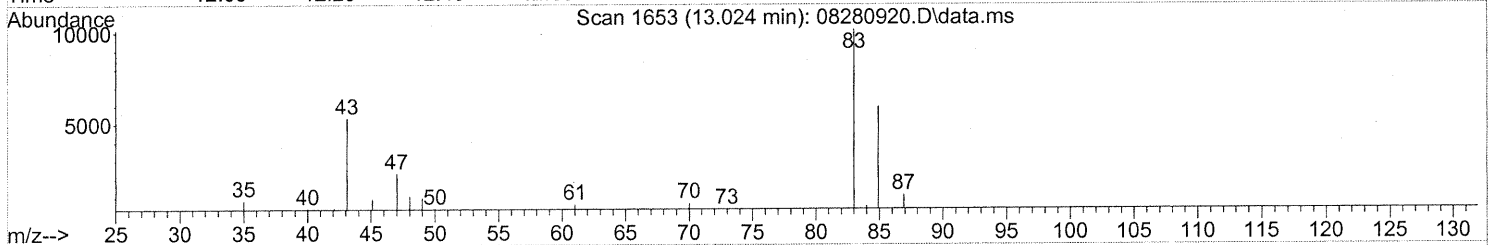
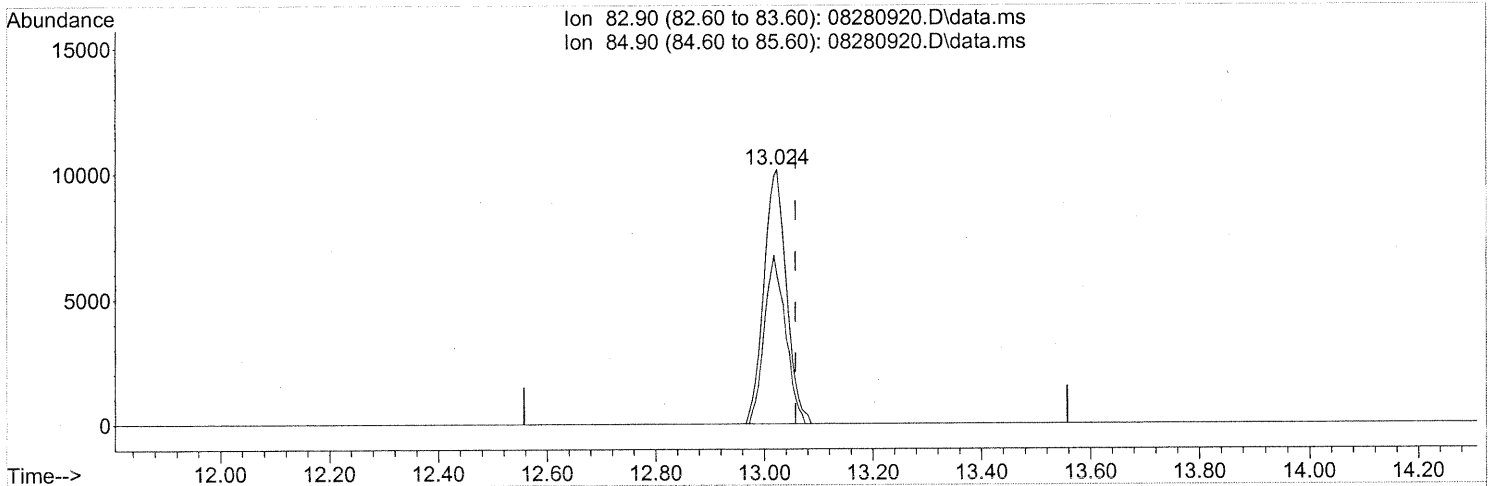
(31) n-Hexane (T)
 12.921min (-0.017) 0.56ng
 response 24538

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	14.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

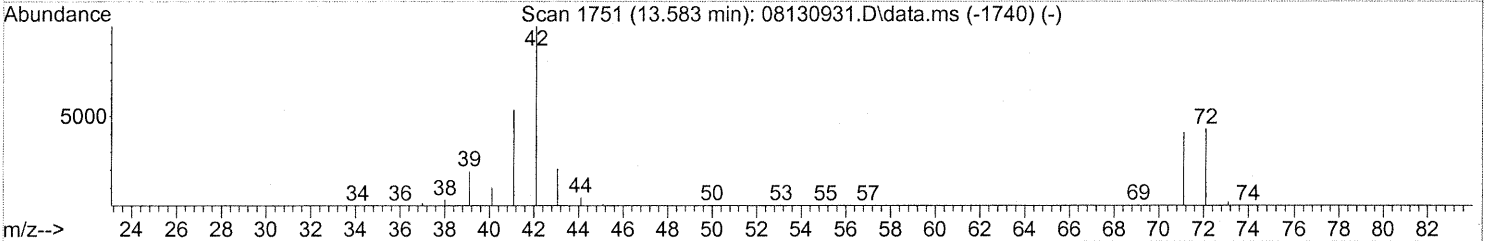
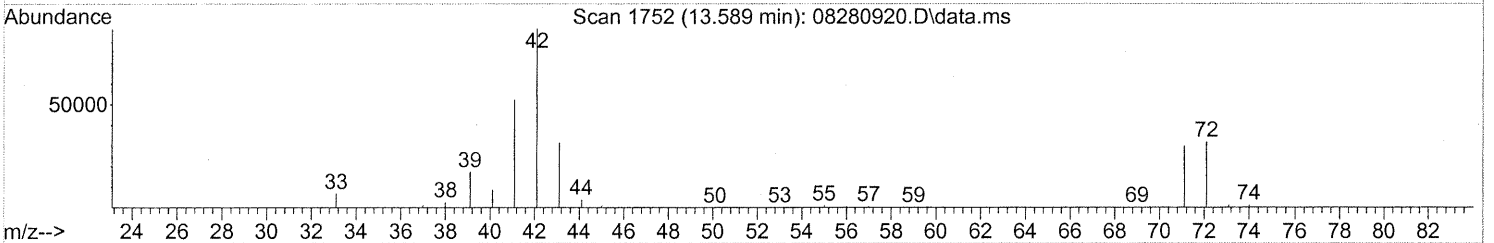
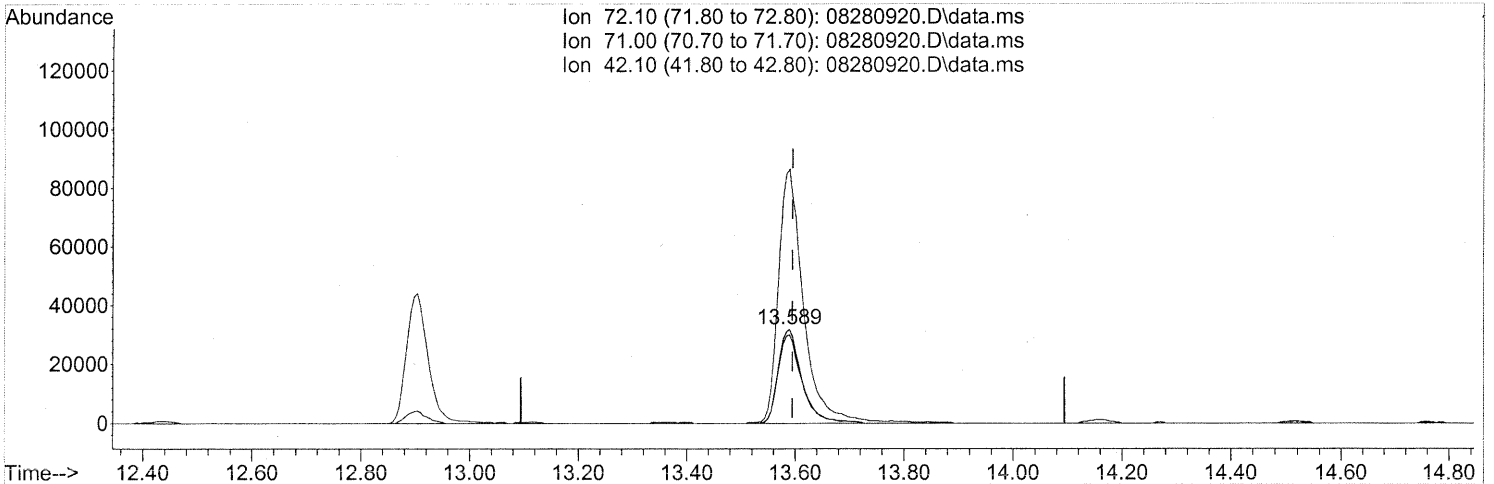
(32) Chloroform (T)
 13.024min (-0.034) 0.79ng
 response 29163

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	62.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.589min (-0.006) 6.63ng

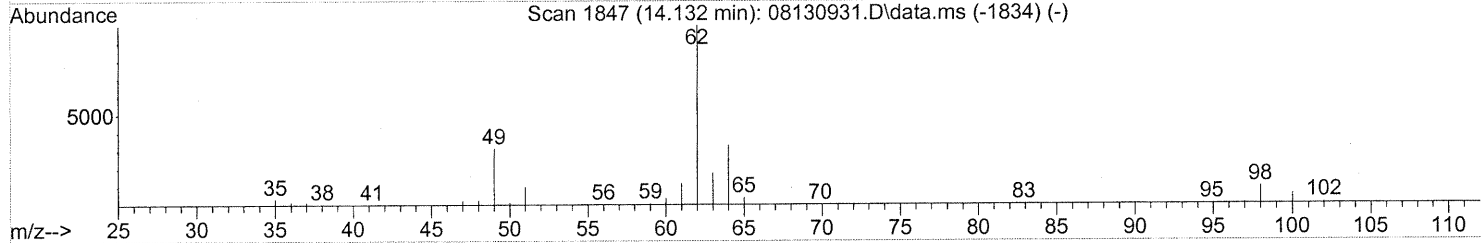
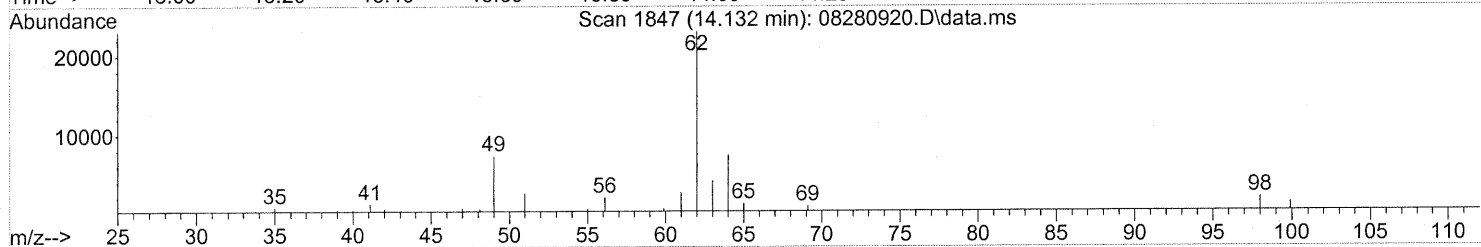
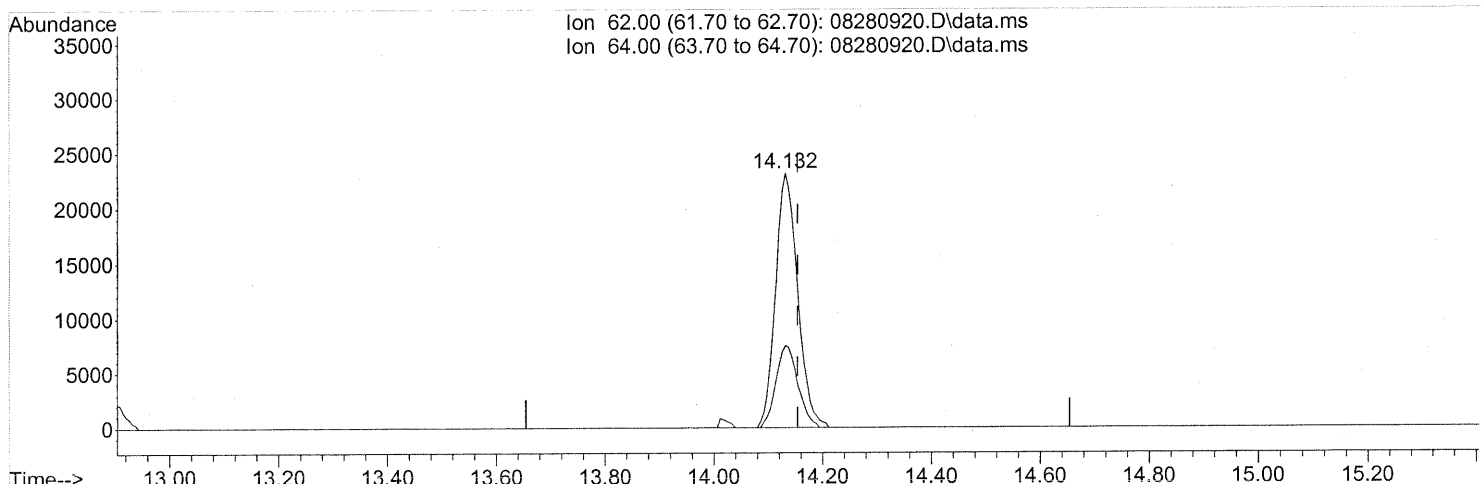
response 96201

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	94.53
42.10	206.50	289.40#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 2.31ng

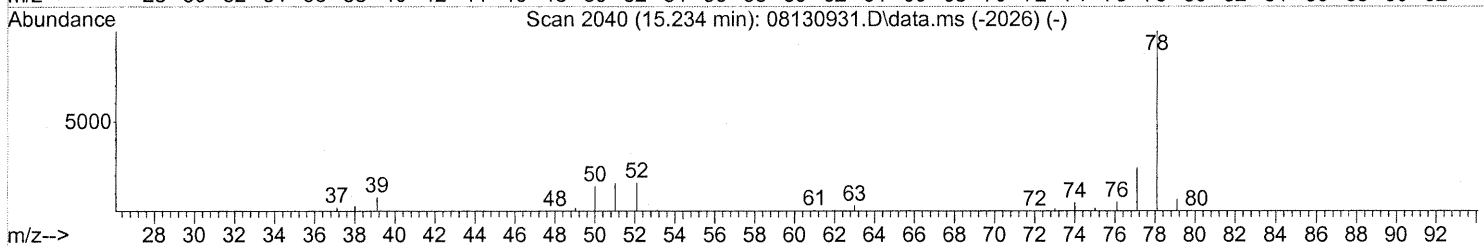
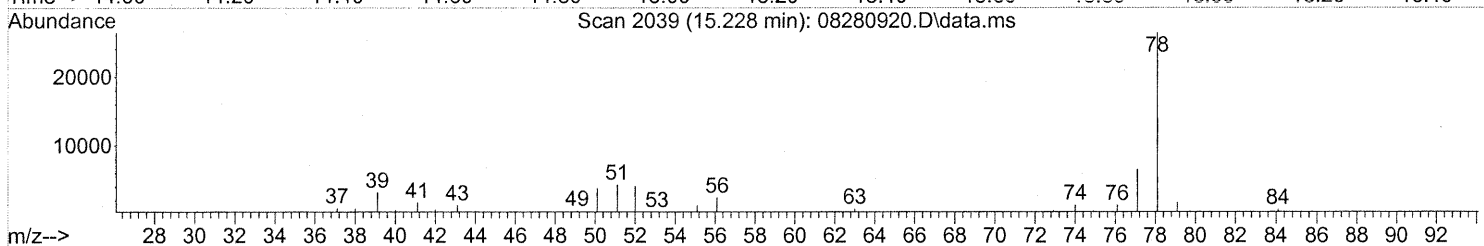
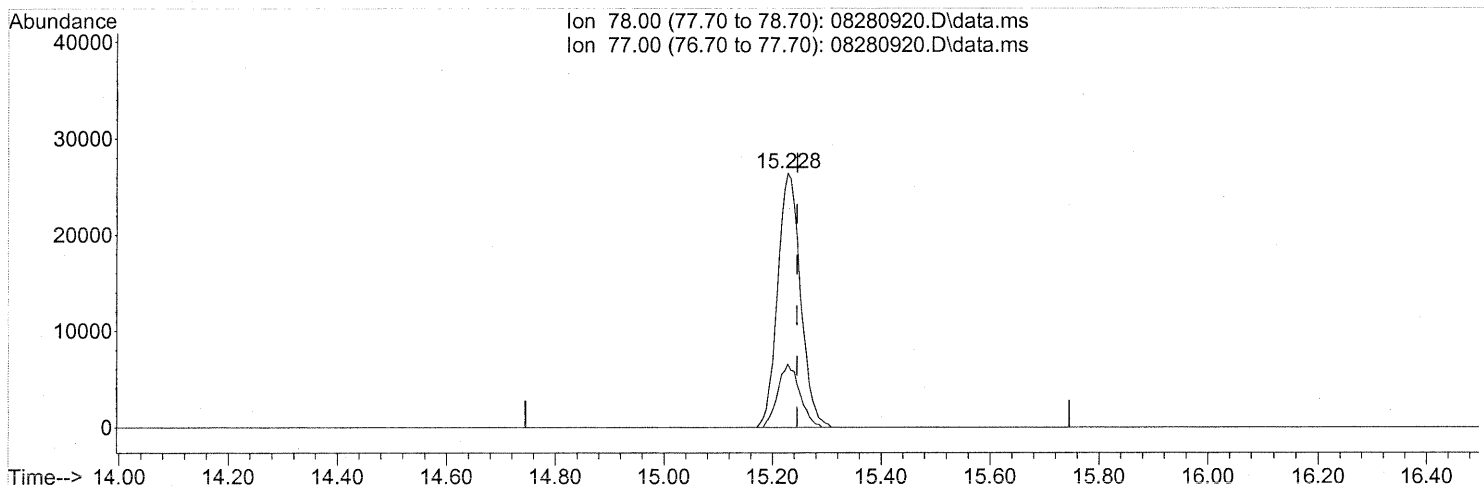
response 65401

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	32.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(41) Benzene (T)

15.228min (-0.017) 0.78ng

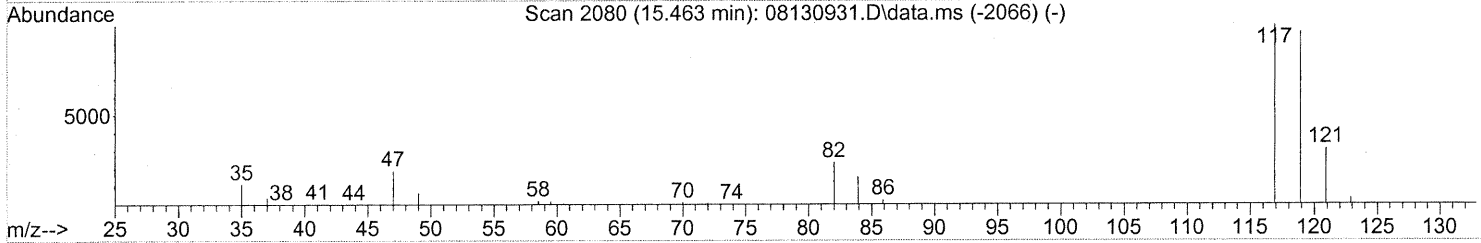
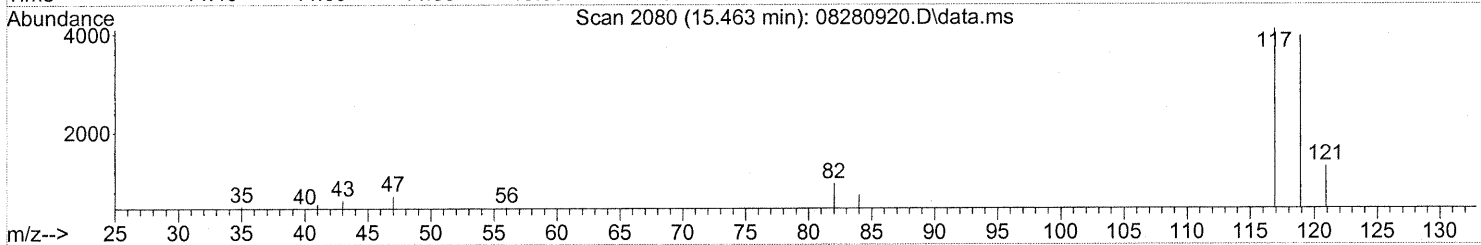
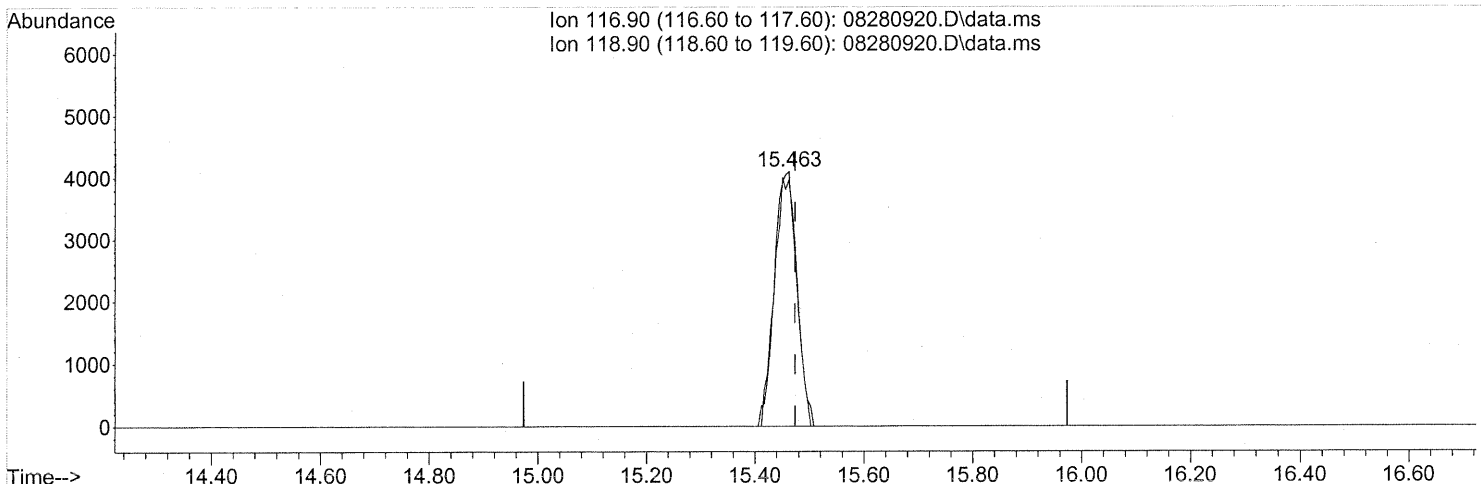
response 77075

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	23.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(42) Carbon Tetrachloride (T)

15.463min (-0.011) 0.43ng

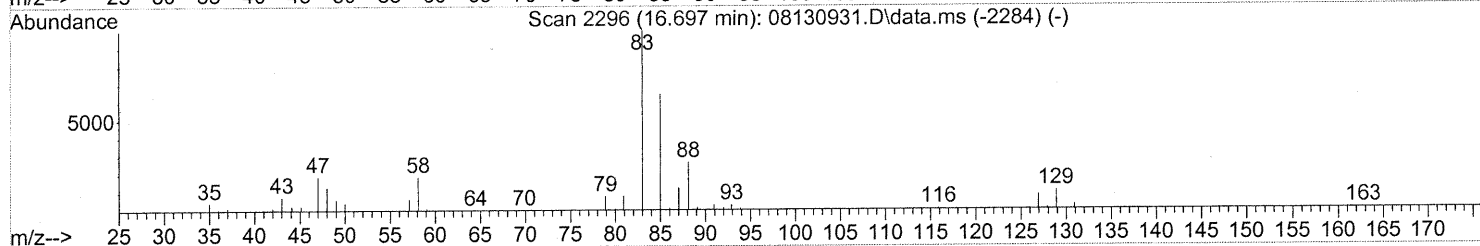
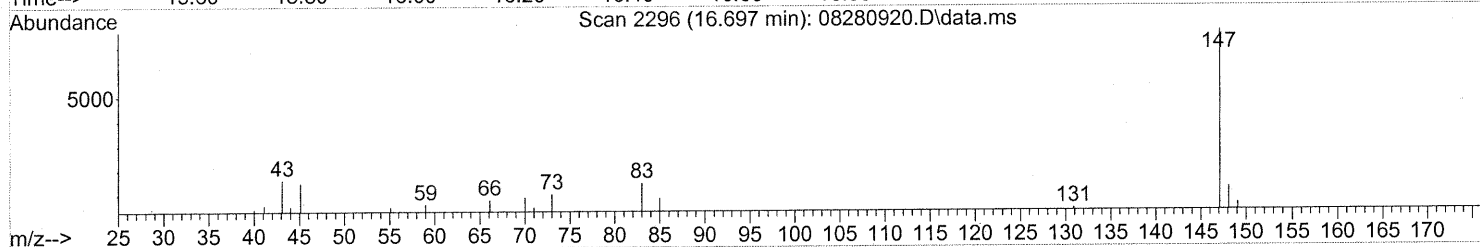
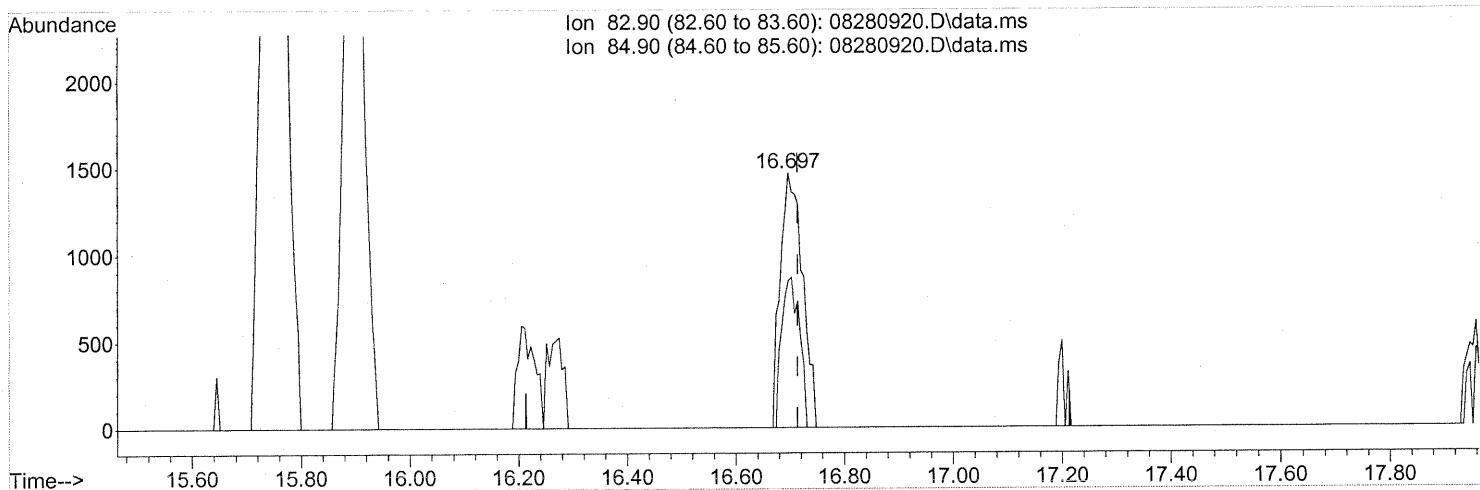
response 11768

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	96.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.697min (-0.017) 0.15ng

response 4178

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	47.51
0.00	0.00	0.00
0.00	0.00	0.00

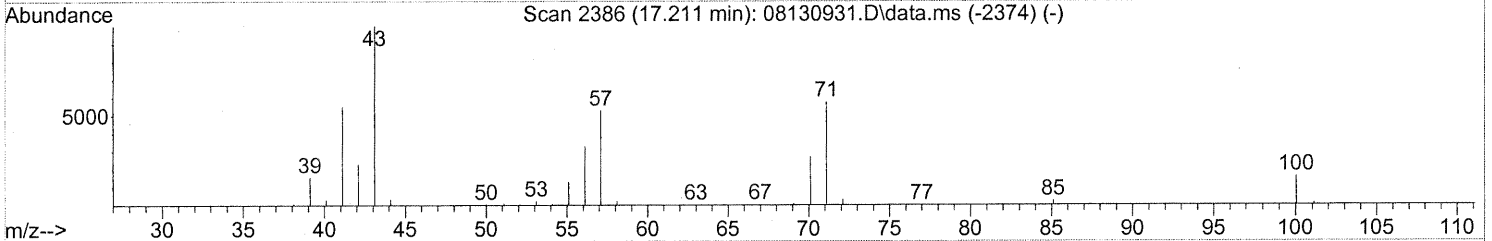
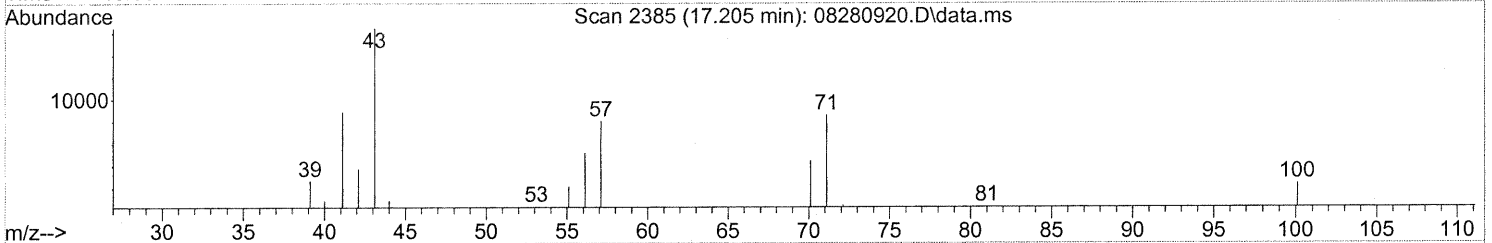
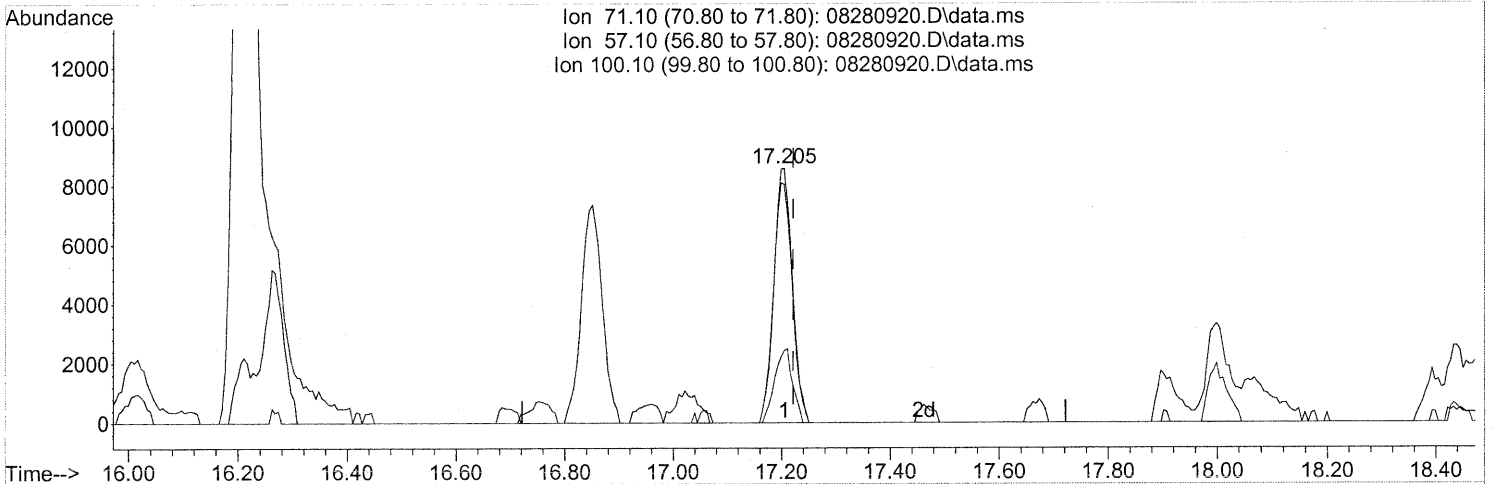
FP Em 9/1/09

KE 9/1/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(51) n-Heptane (T)

17.205min (-0.017) 0.78ng

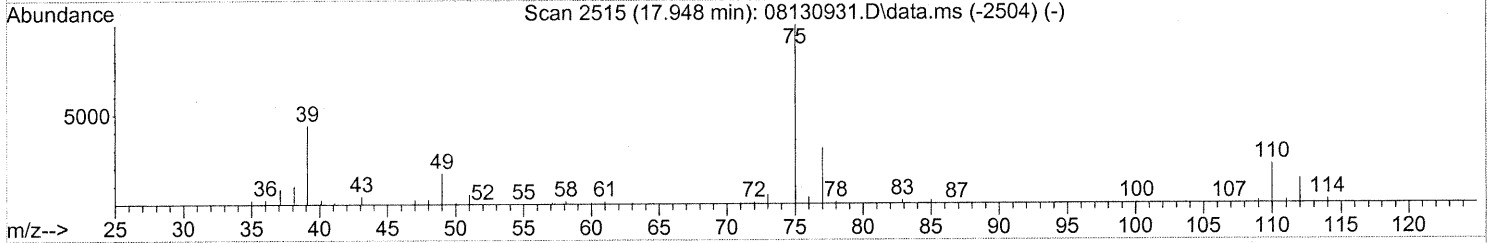
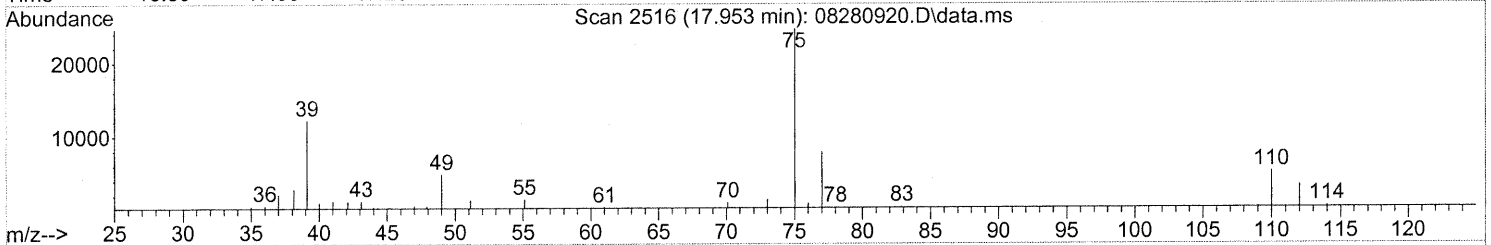
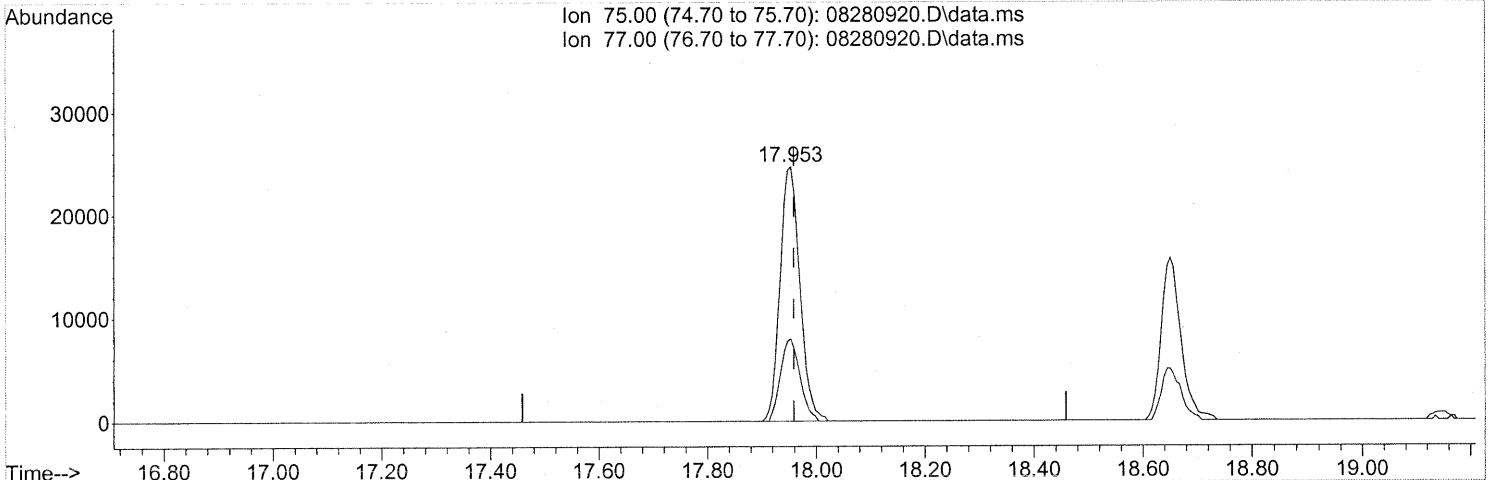
response 20323

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	95.32
100.10	30.70	27.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(52) cis-1,3-Dichloropropene (T)

17.953min (-0.006) 1.69ng

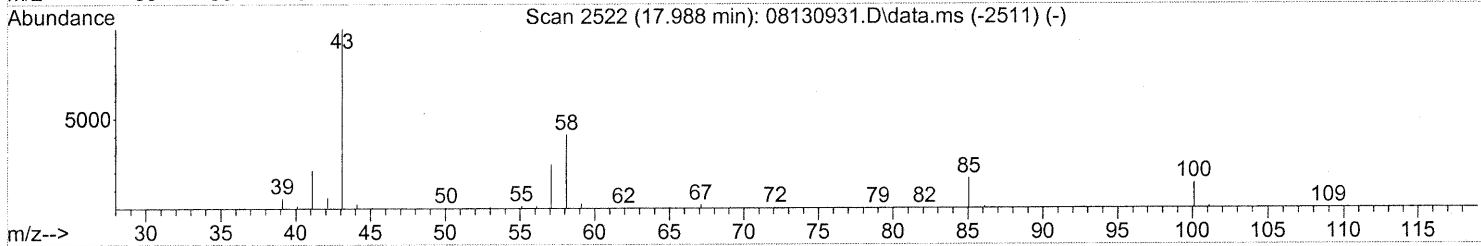
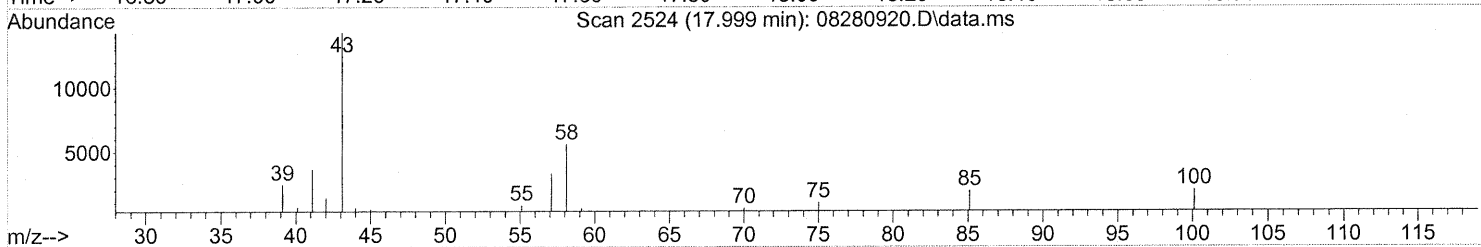
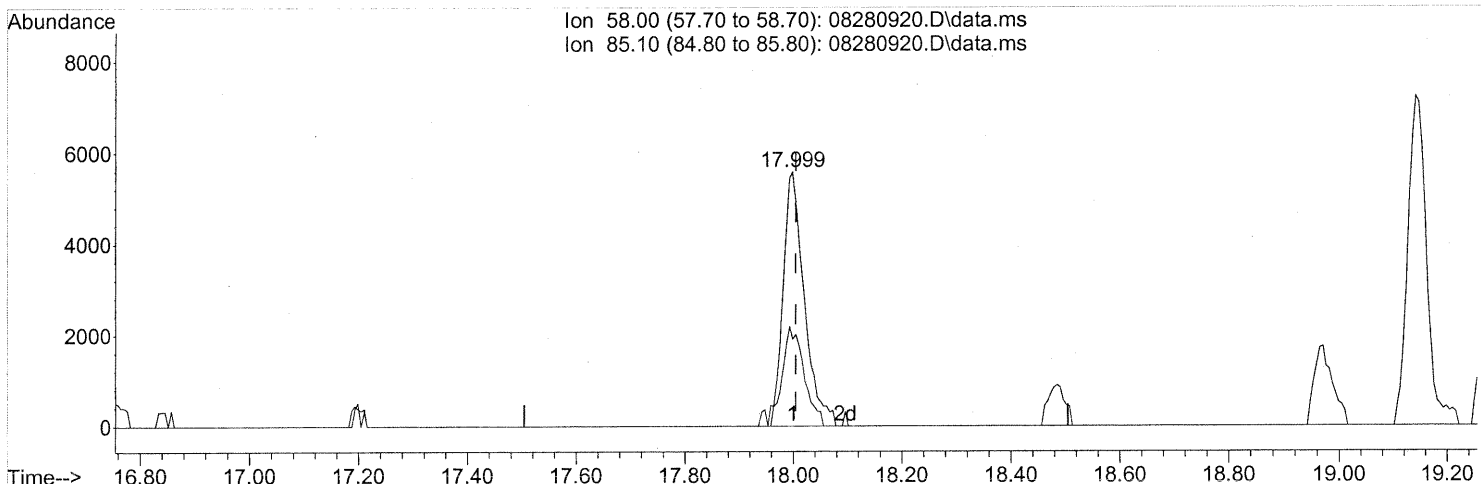
response 61407

Ion	Exp%	Act%
75.00	100	100
77.00	31.60	31.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

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

17.999min (-0.006) 0.70ng

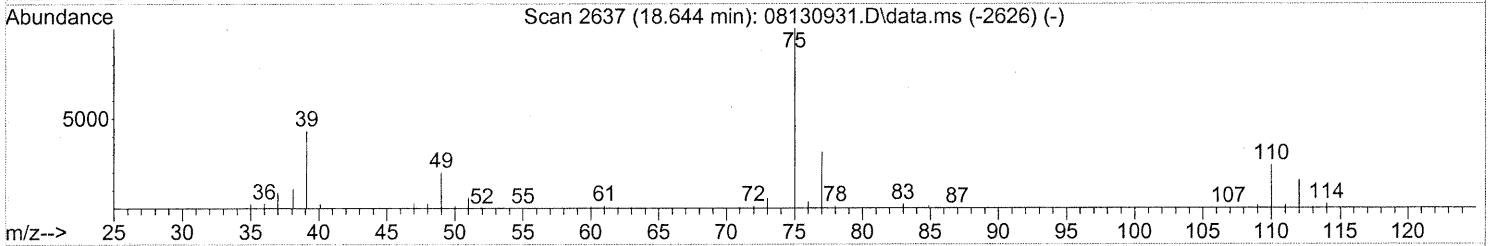
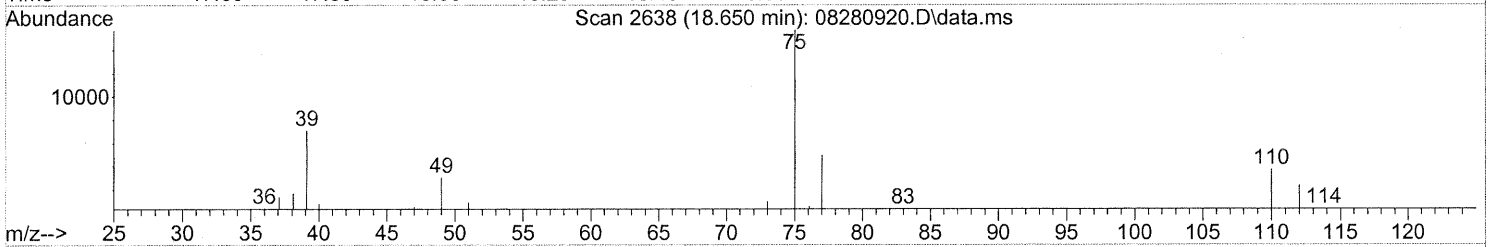
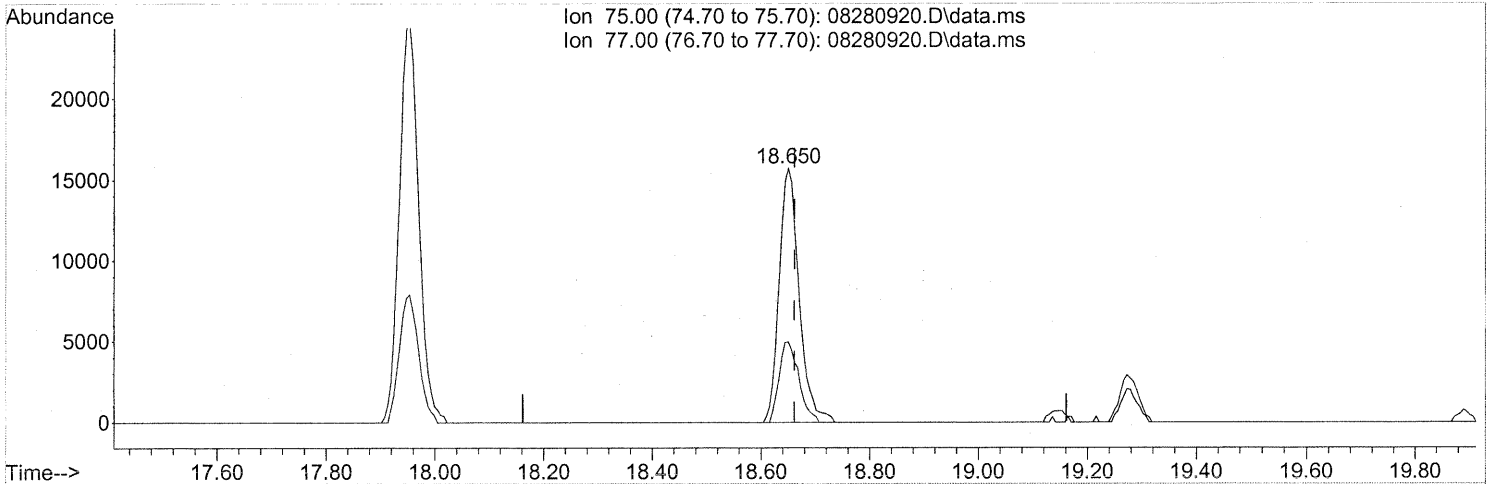
response 14984

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	40.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.650min (-0.011) 1.25ng

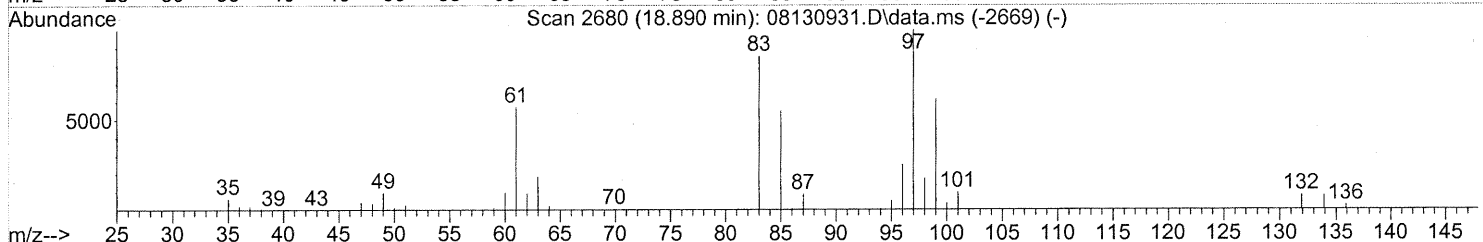
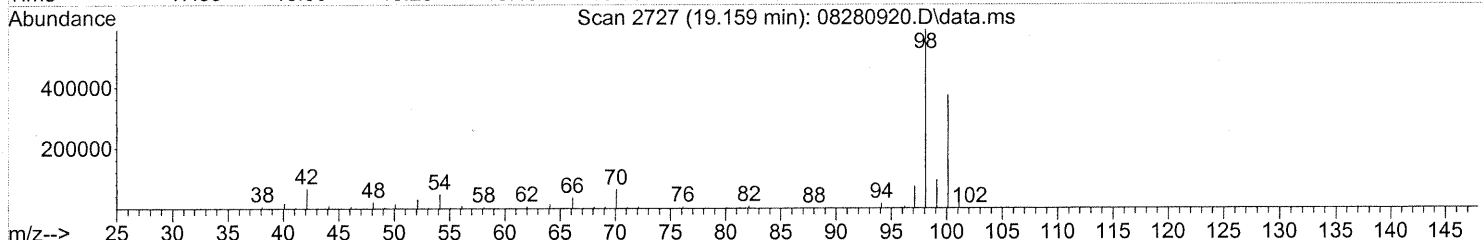
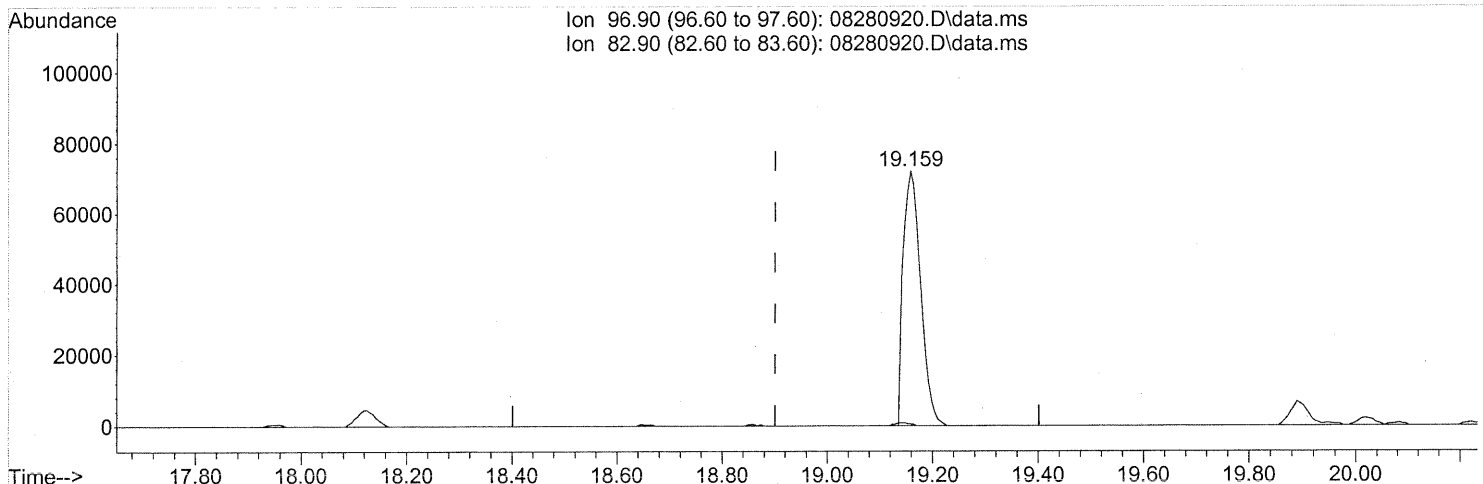
response 39624

Ion	Exp%	Act%
75.00	100	100
77.00	31.60	31.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280920.D
Acq On : 28 Aug 2009 19:37
Operator : EM
Sample : P0902899-001 (1000ml)
Misc : Env. H & E 102515
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08280920.D\data.ms

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

19.159min (+0.257) 7.87ng

response 165511

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	0.92#
0.00	0.00	0.00
0.00	0.00	0.00

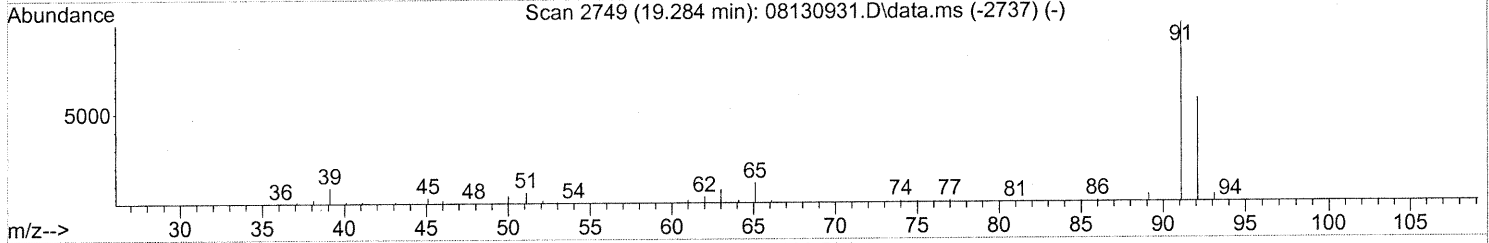
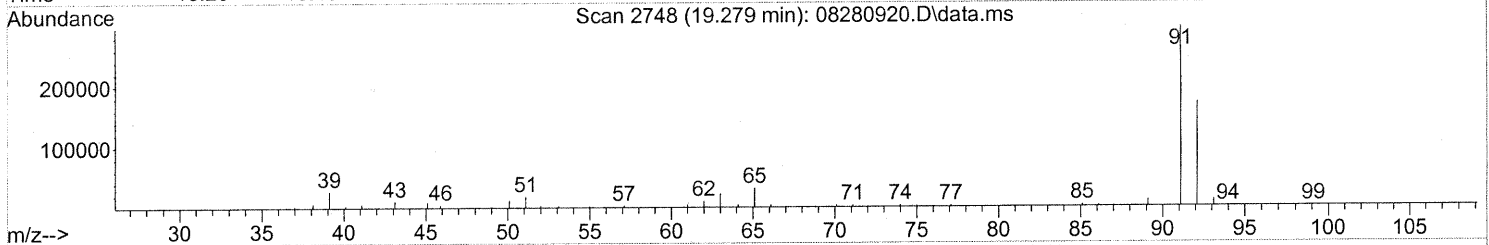
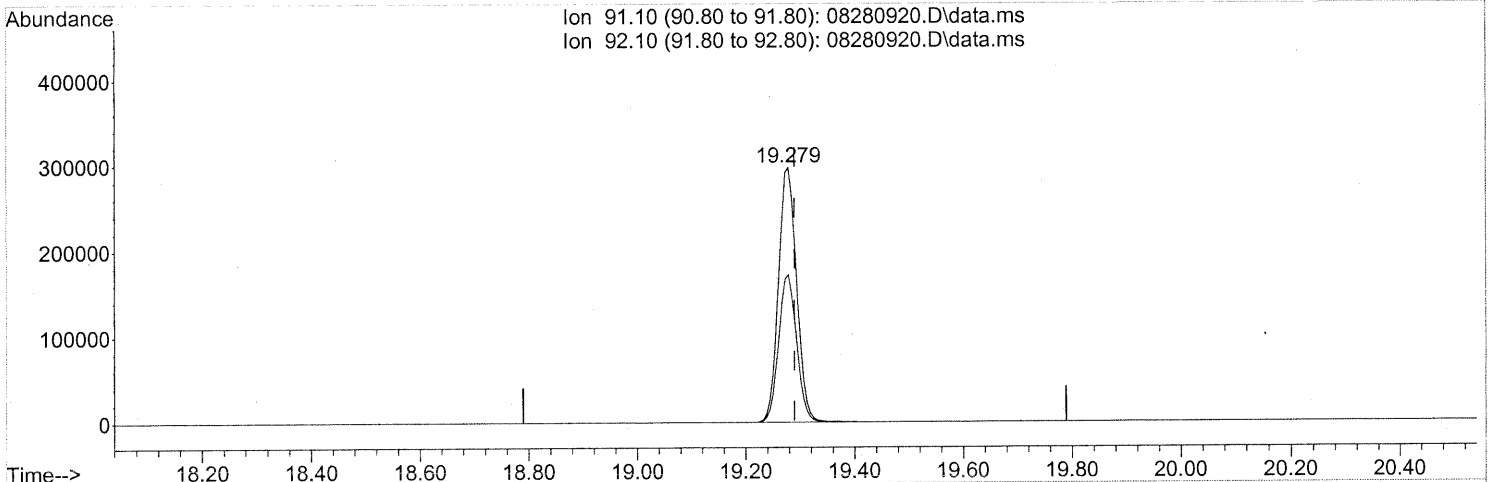
FP Em 9/1/09

12/9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 6.97ng

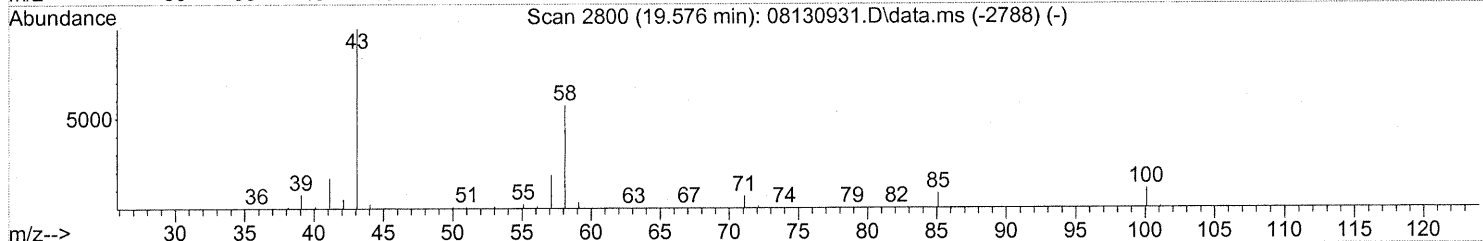
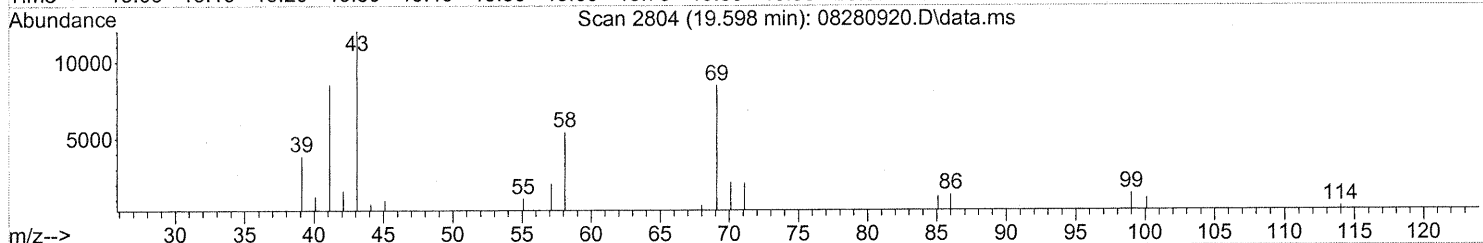
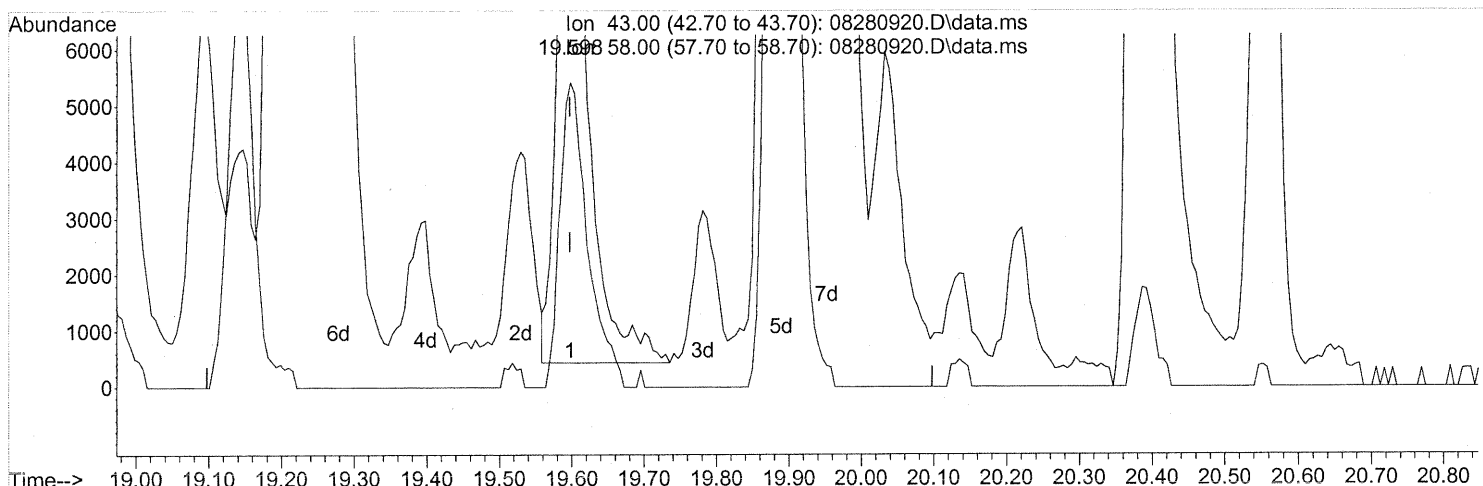
response 686042

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.598min (+0.000) 0.61ng
 response 31296

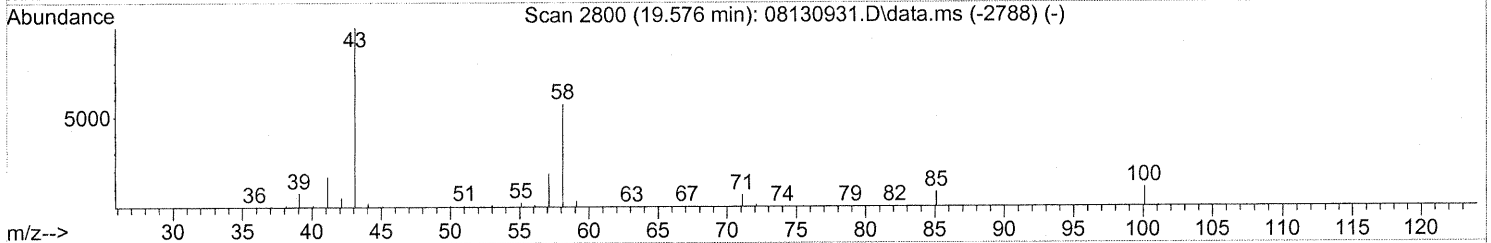
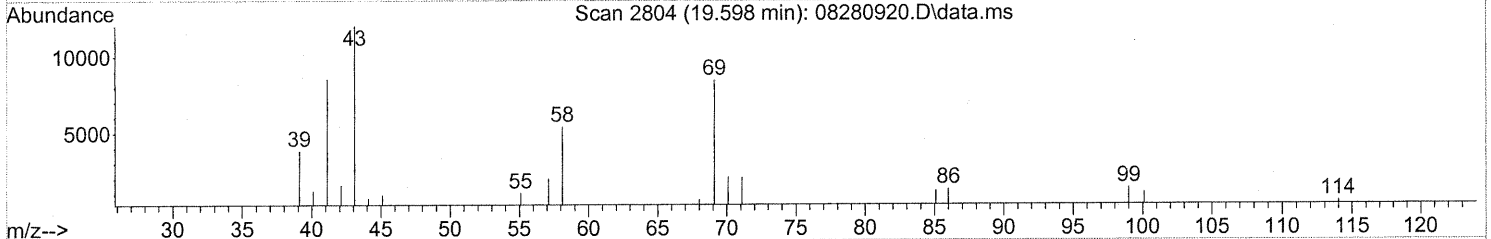
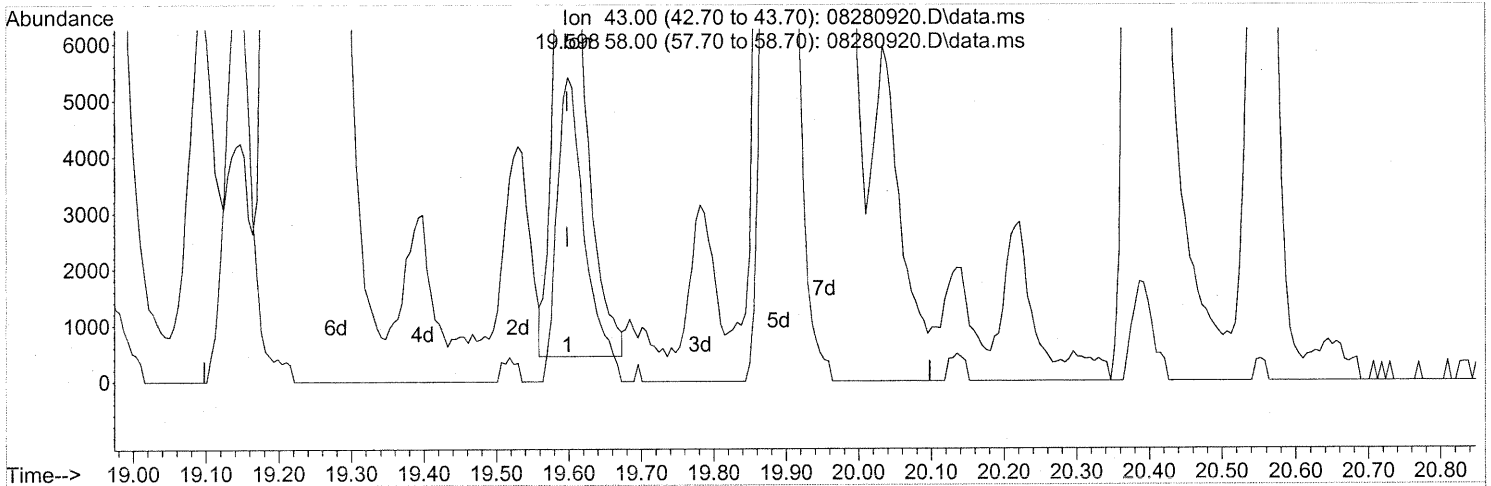
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	46.47
0.00	0.00	0.00
0.00	0.00	0.00

191

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)

19.598min (+0.000) 0.59ng m

response 29979

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	48.51
0.00	0.00	0.00
0.00	0.00	0.00

IPI → IC

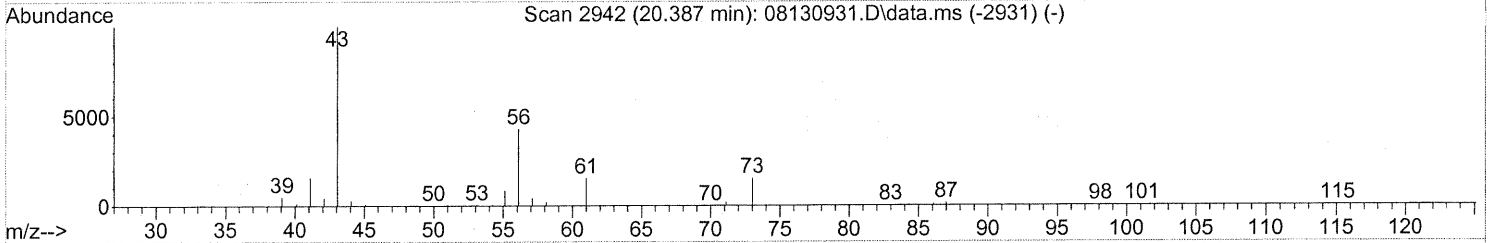
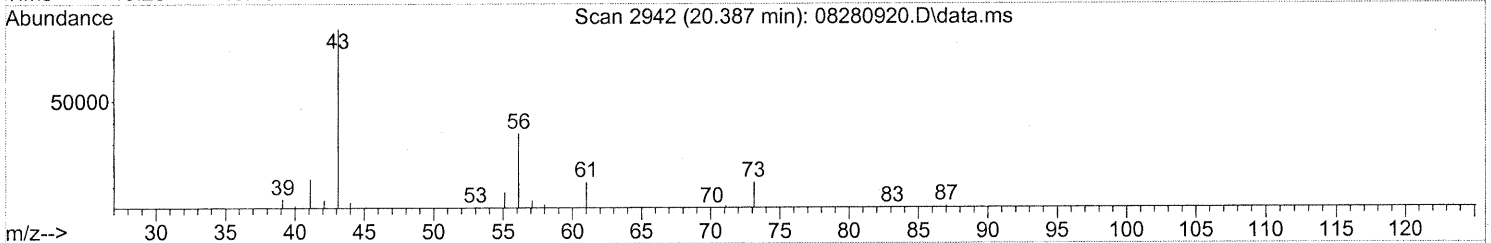
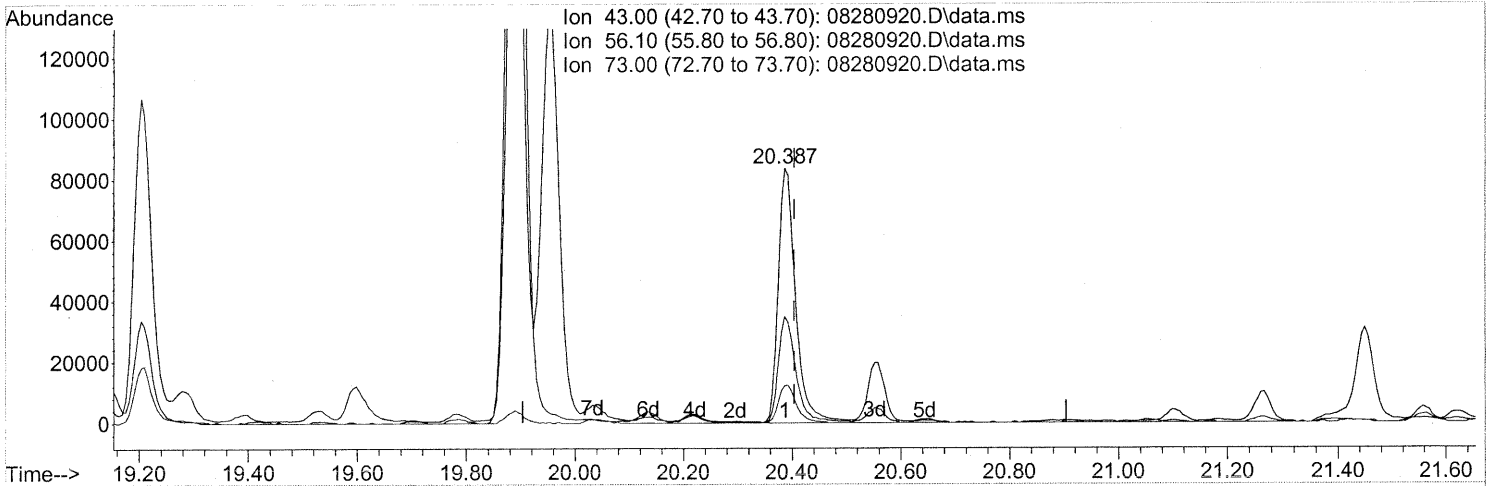
em 9/1/09

12/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

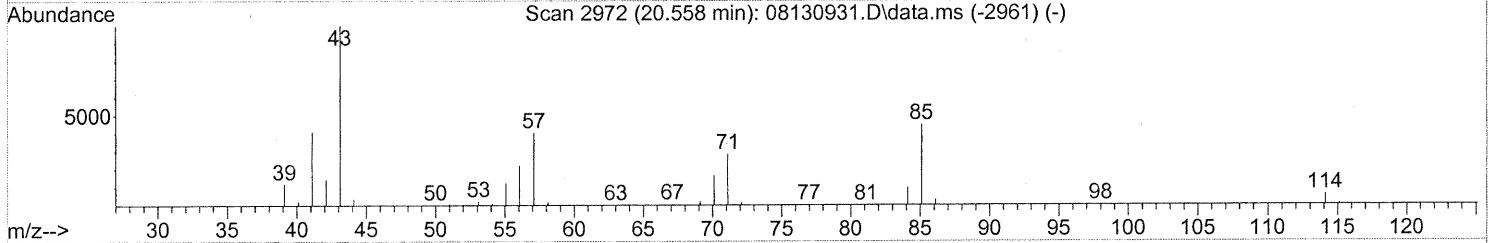
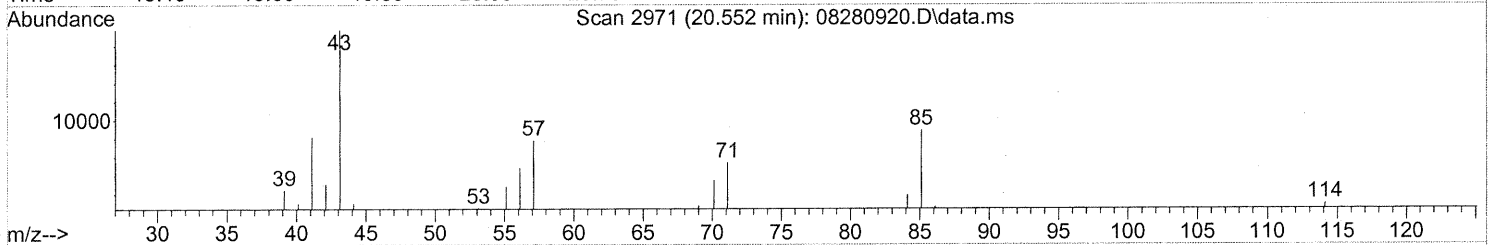
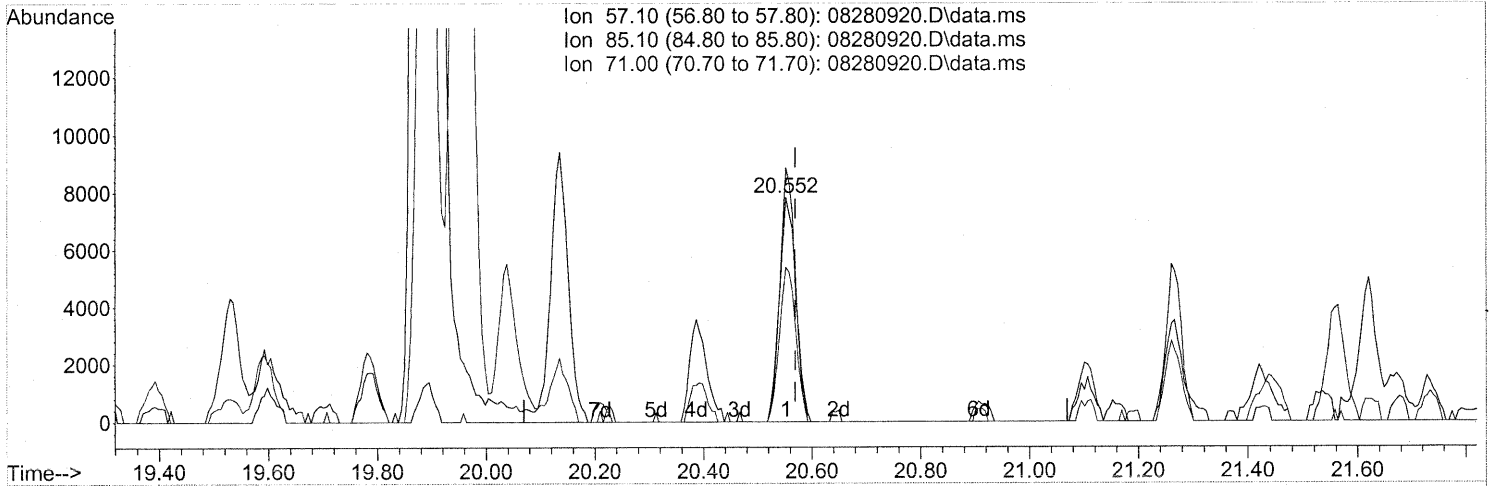
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 3.30ng
 response 183898

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	42.49
73.00	16.90	15.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

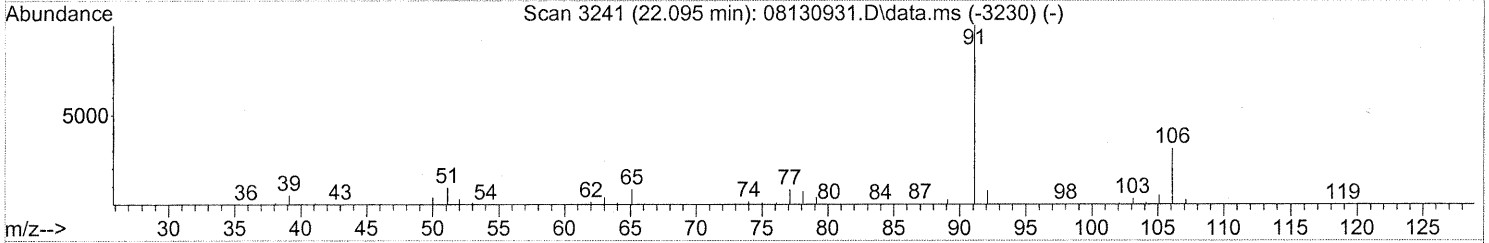
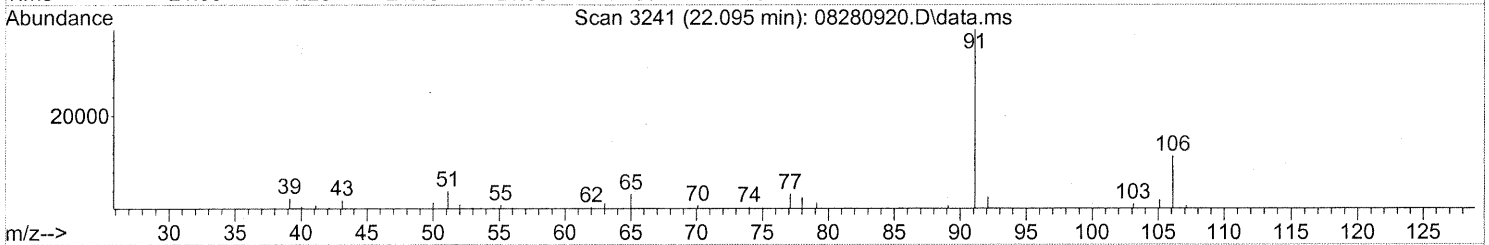
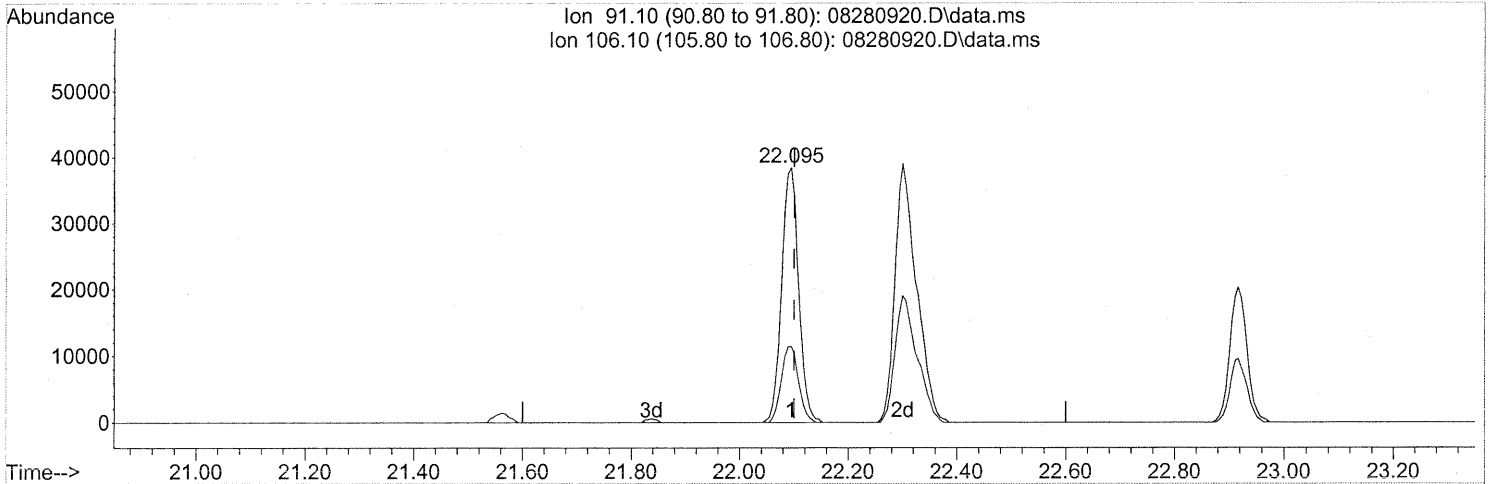
(63) n-Octane (T)
 20.552min (-0.017) 0.75ng
 response 16378

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	106.51
71.00	75.10	68.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(66) Ethylbenzene (T)

22.095min (-0.006) 0.78ng

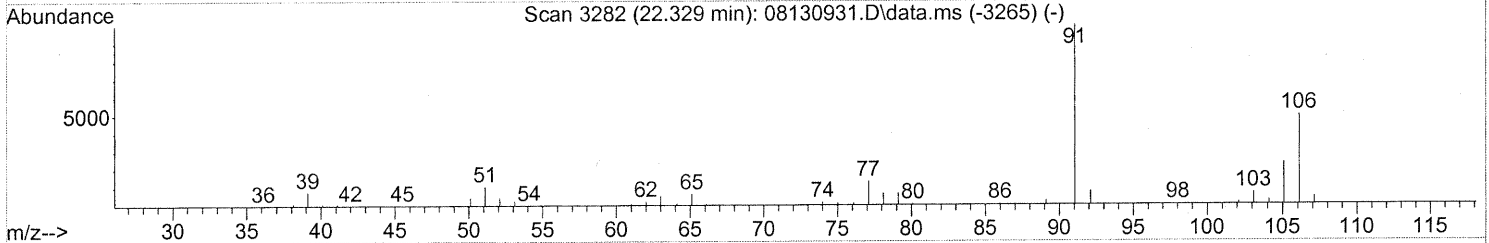
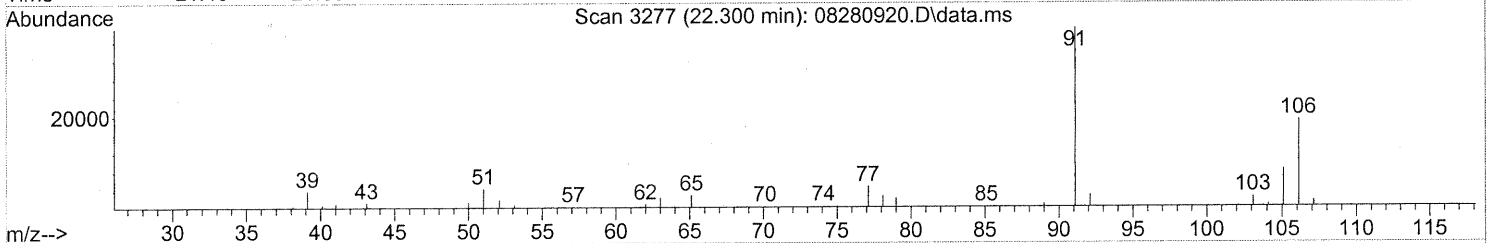
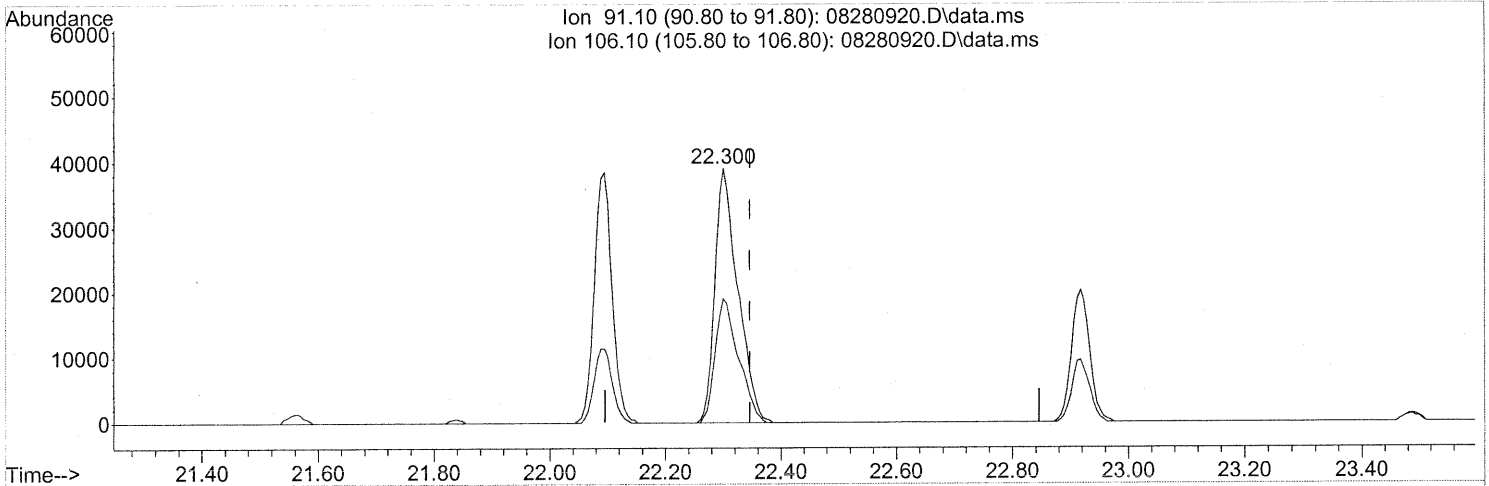
response 82449

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

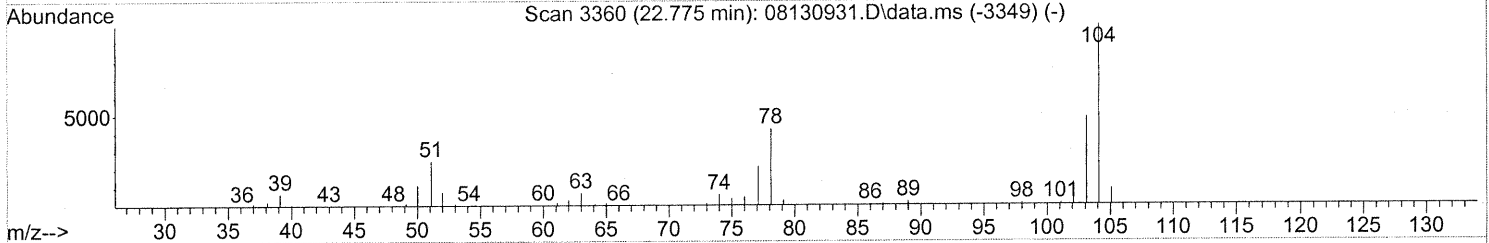
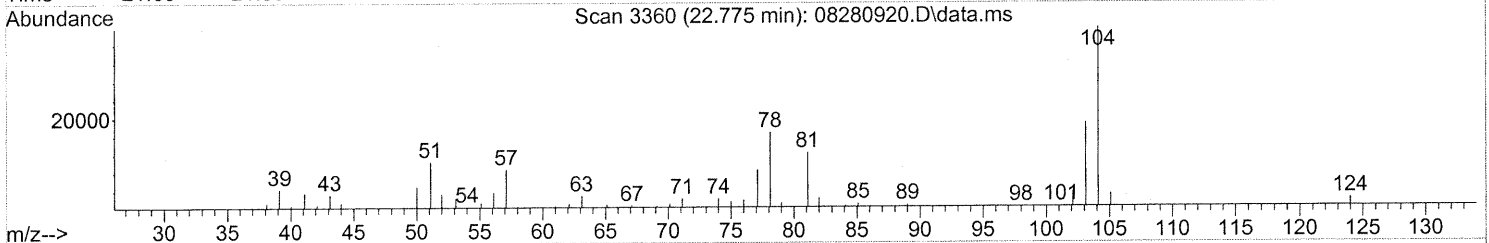
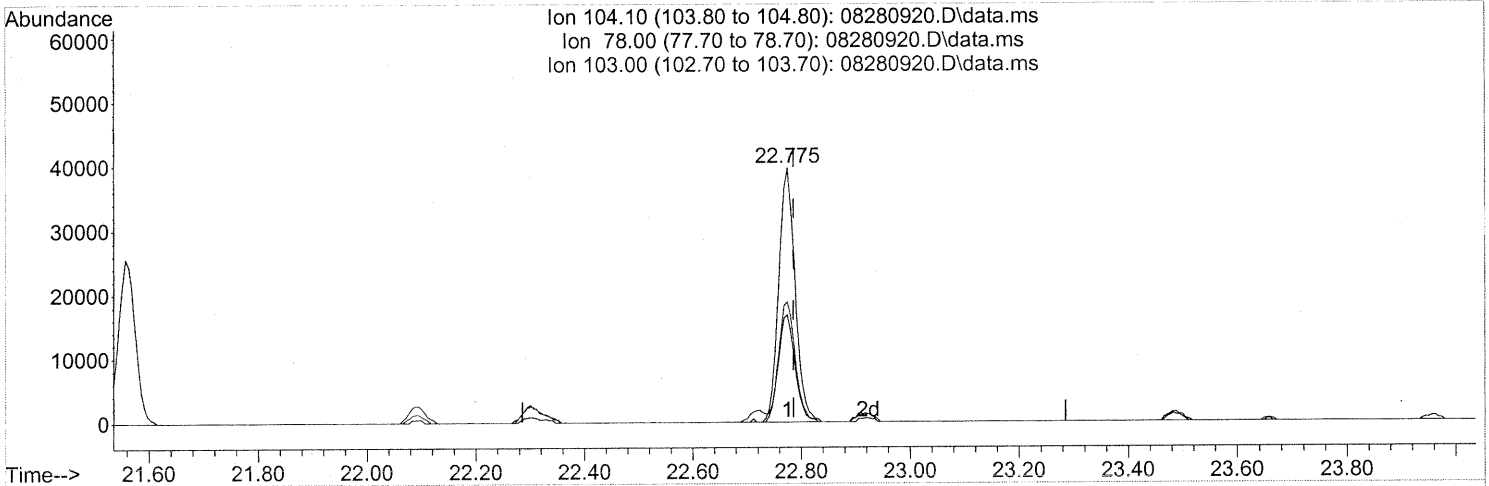
(67) m- & p-Xylenes (T)
 22.300min (-0.046) 1.28ng
 response 107442

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

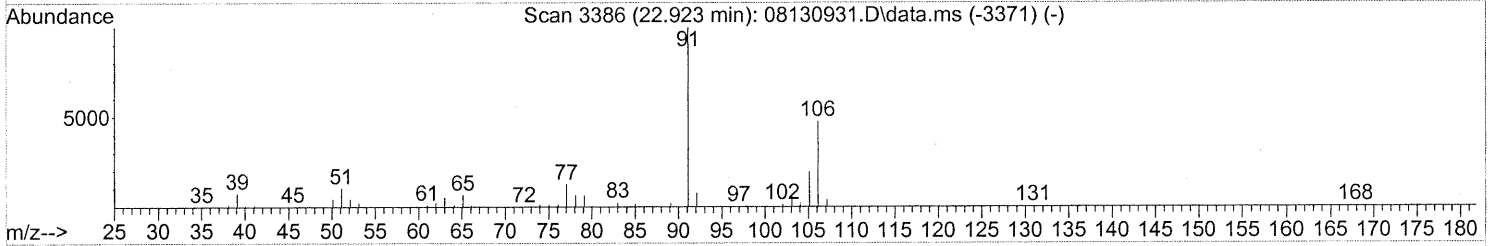
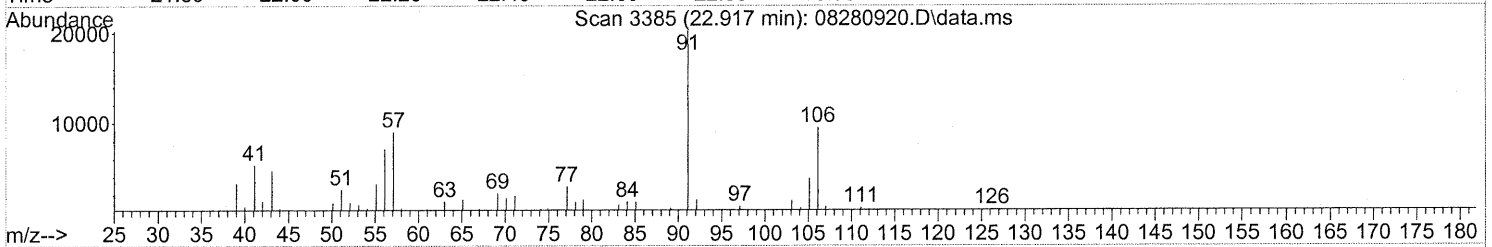
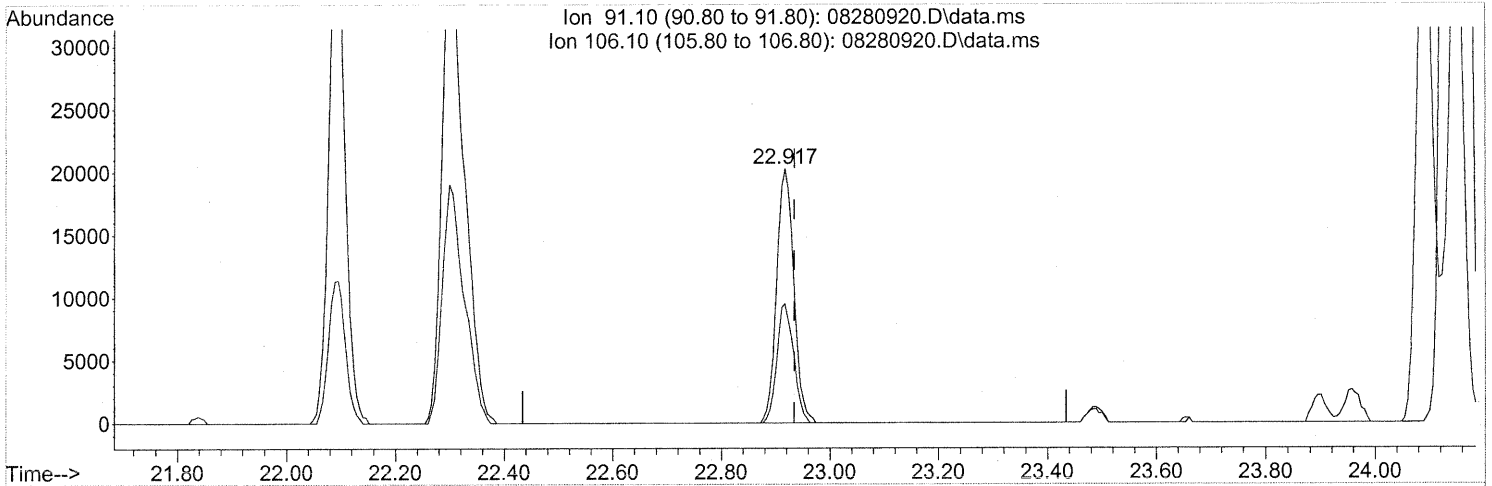
(69) Styrene (T)
 22.775min (-0.011) 1.34ng
 response 83169

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	42.76
103.00	48.70	48.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

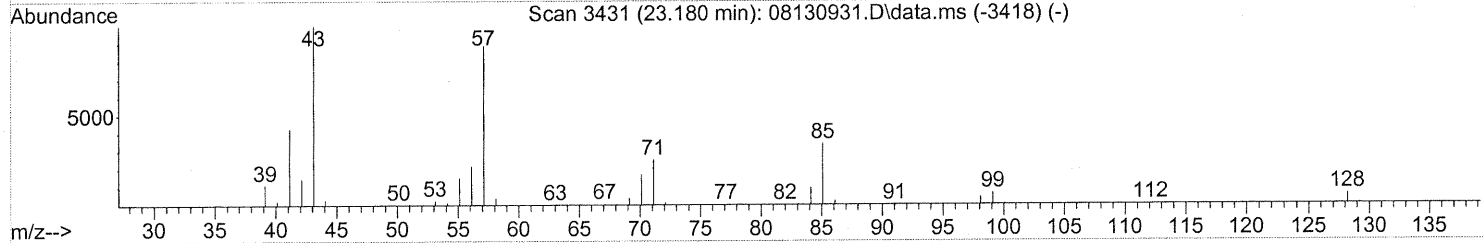
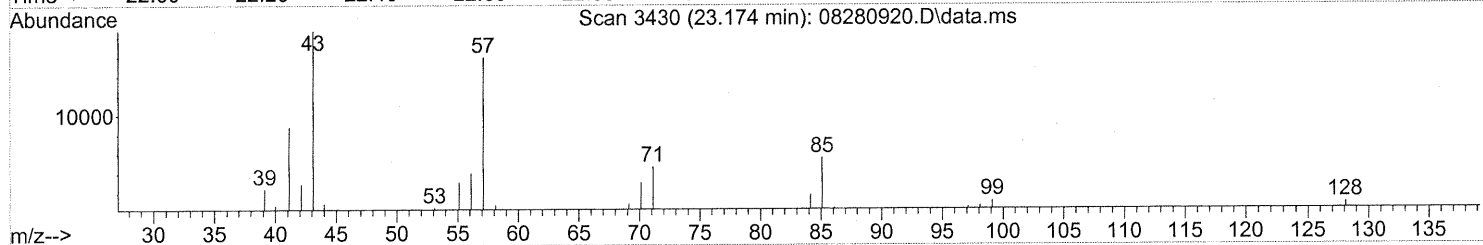
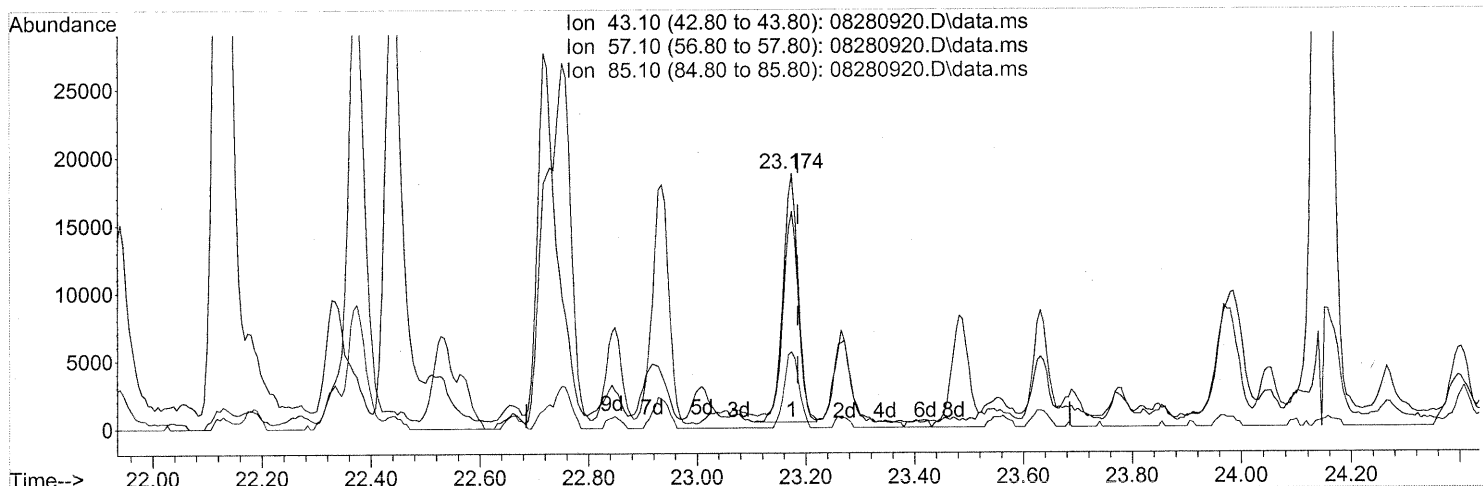
(70) o-Xylene (T)
 22.917min (-0.017) 0.52ng
 response 44265

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	45.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

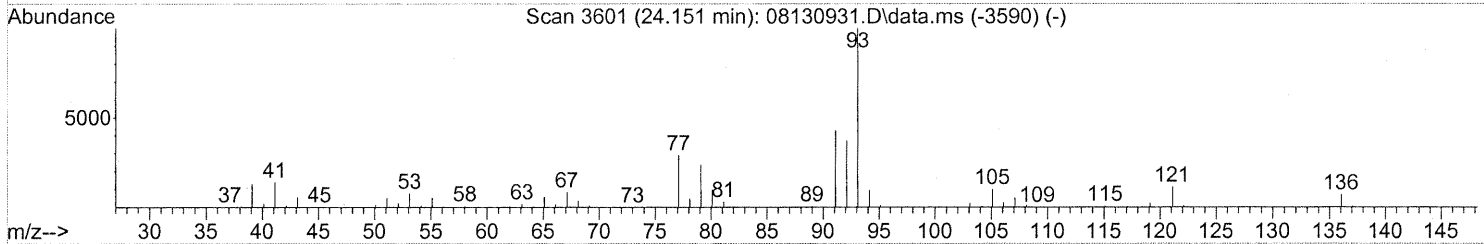
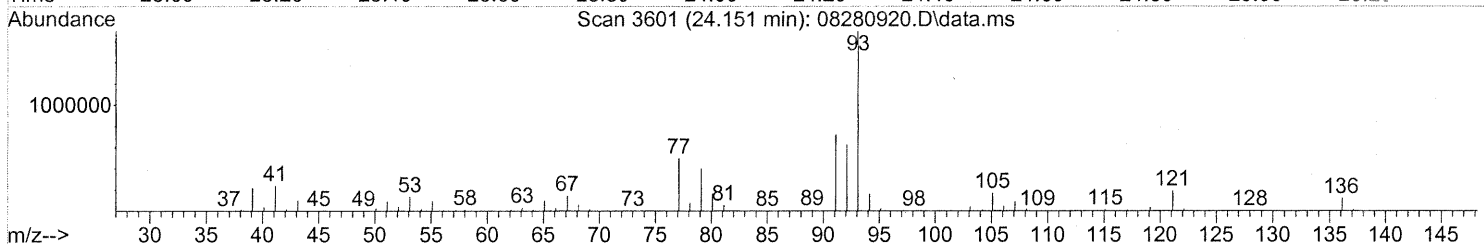
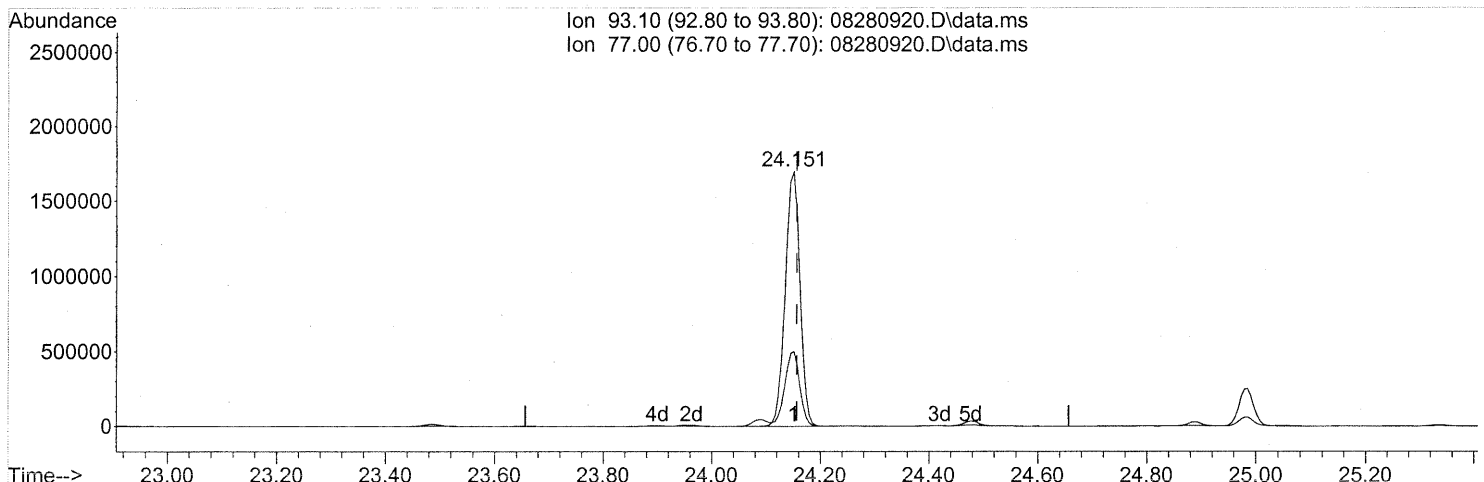
(71) n-Nonane (T)
 23.174min (-0.011) 0.69ng
 response 35342

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	84.32
85.10	38.80	29.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

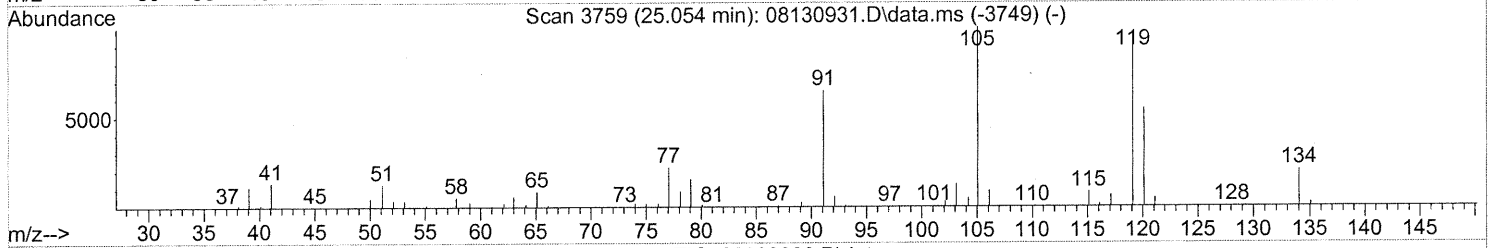
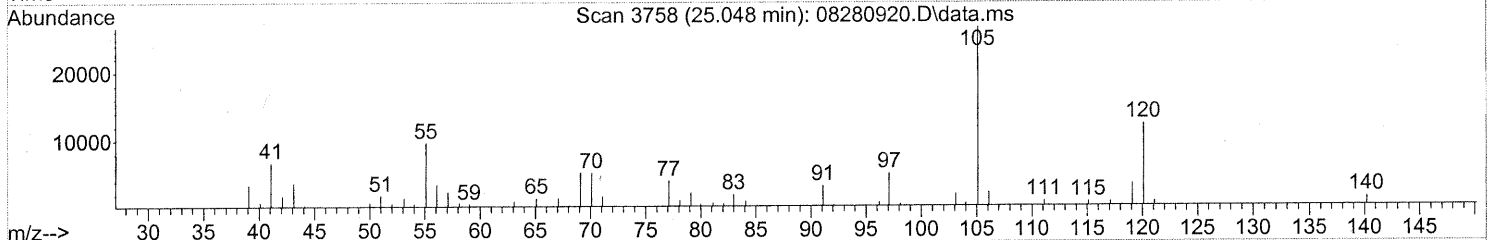
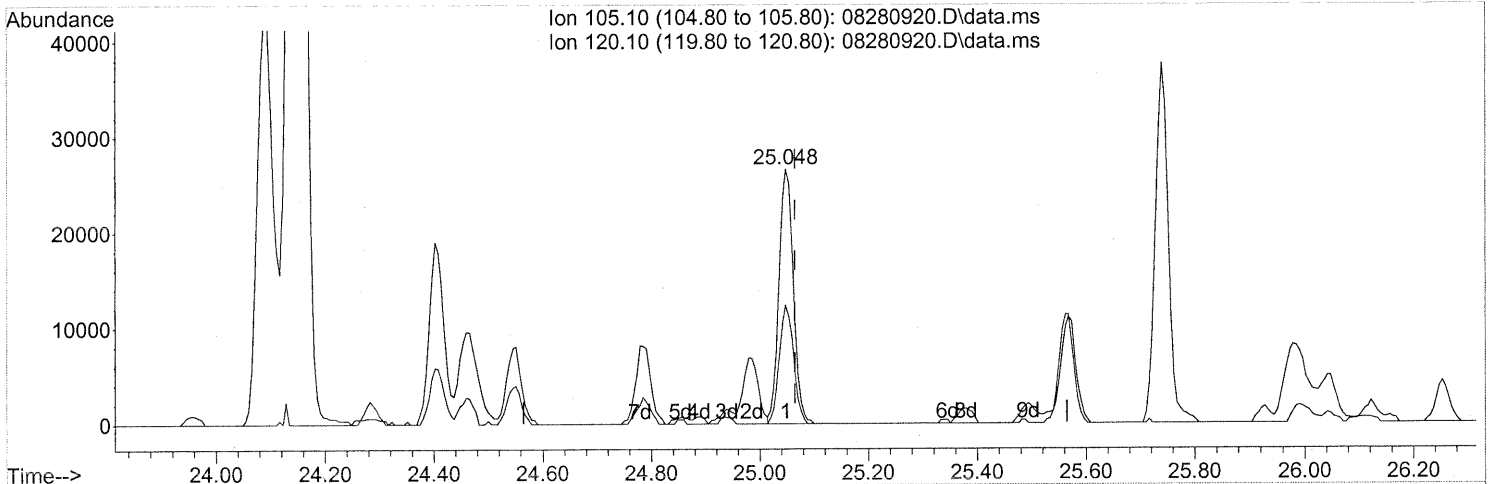
(75) alpha-Pinene (T)
 24.151min (-0.006) 58.66ng
 response 3179237

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

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

25.048min (-0.017) 0.53ng

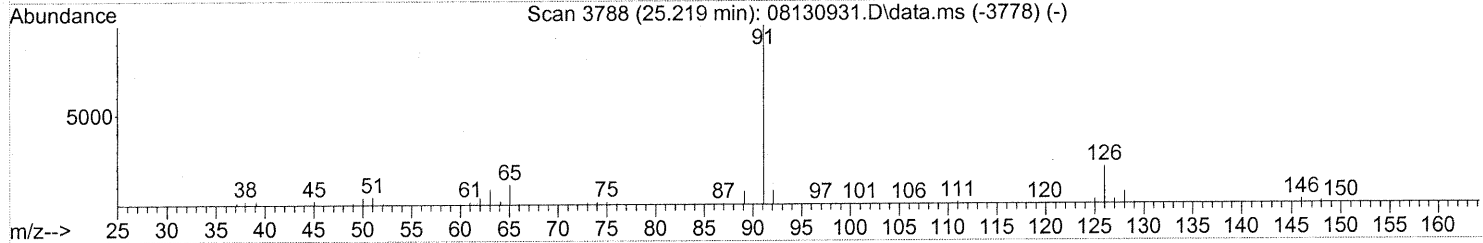
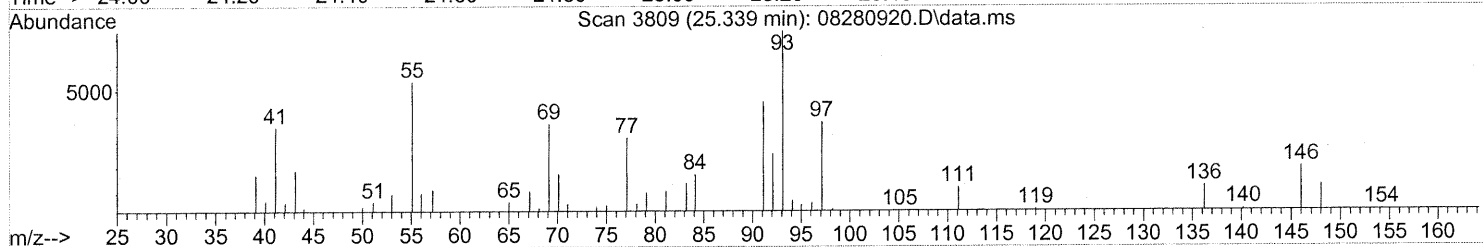
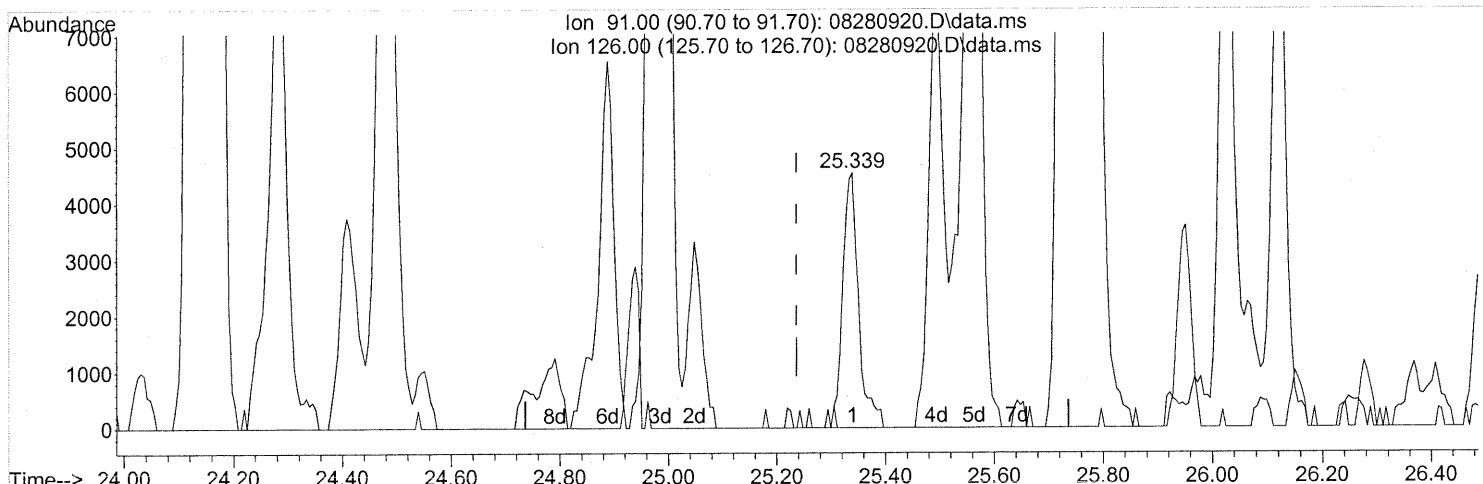
response 48509

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	45.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(84) Benzyl Chloride (T)
 25.339min (+0.103) 0.13ng
 response 9401

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

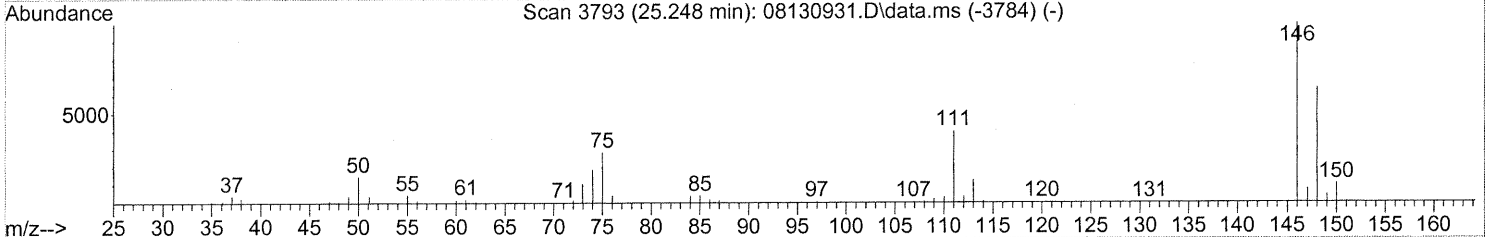
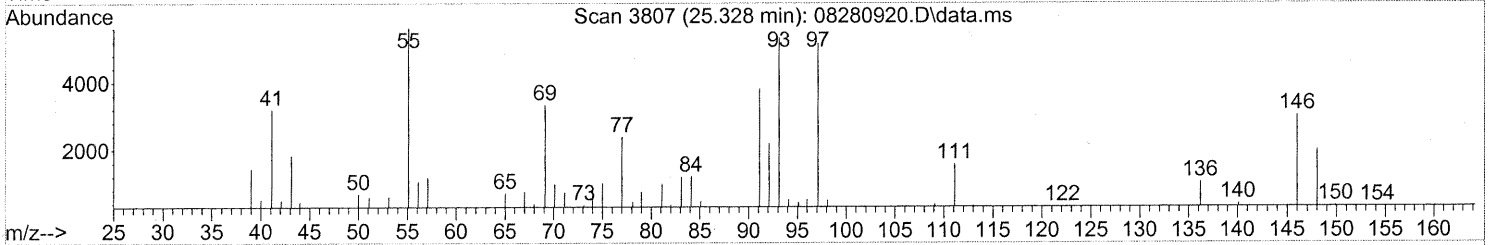
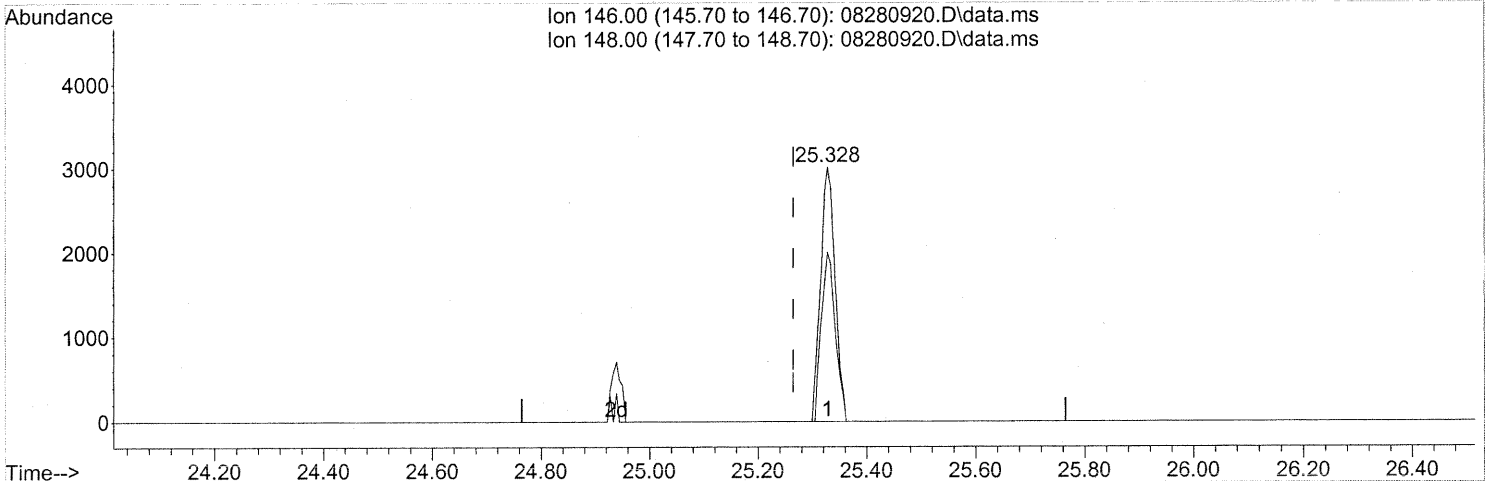
FP em s
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KE9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.328min (+0.063) 0.12ng

response 5577

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	63.89
0.00	0.00	0.00
0.00	0.00	0.00

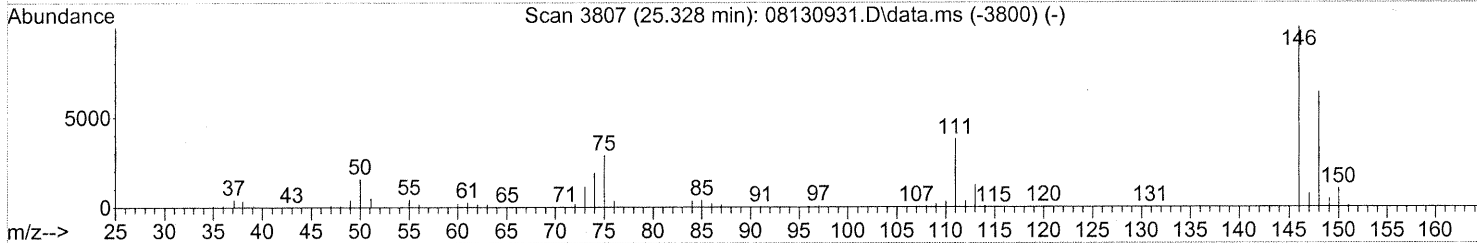
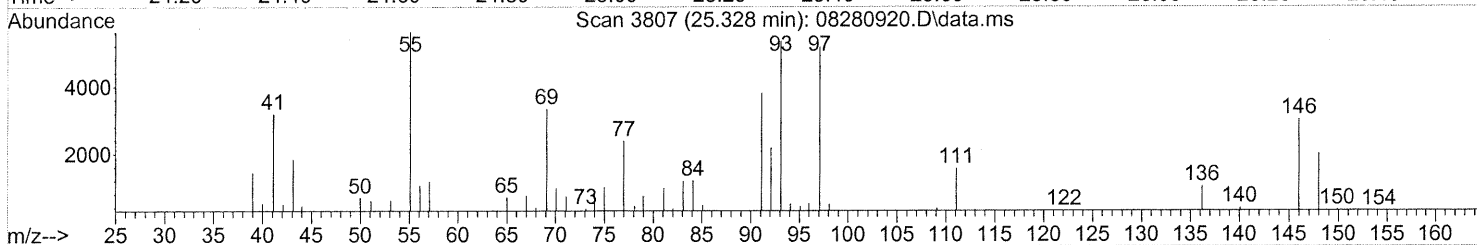
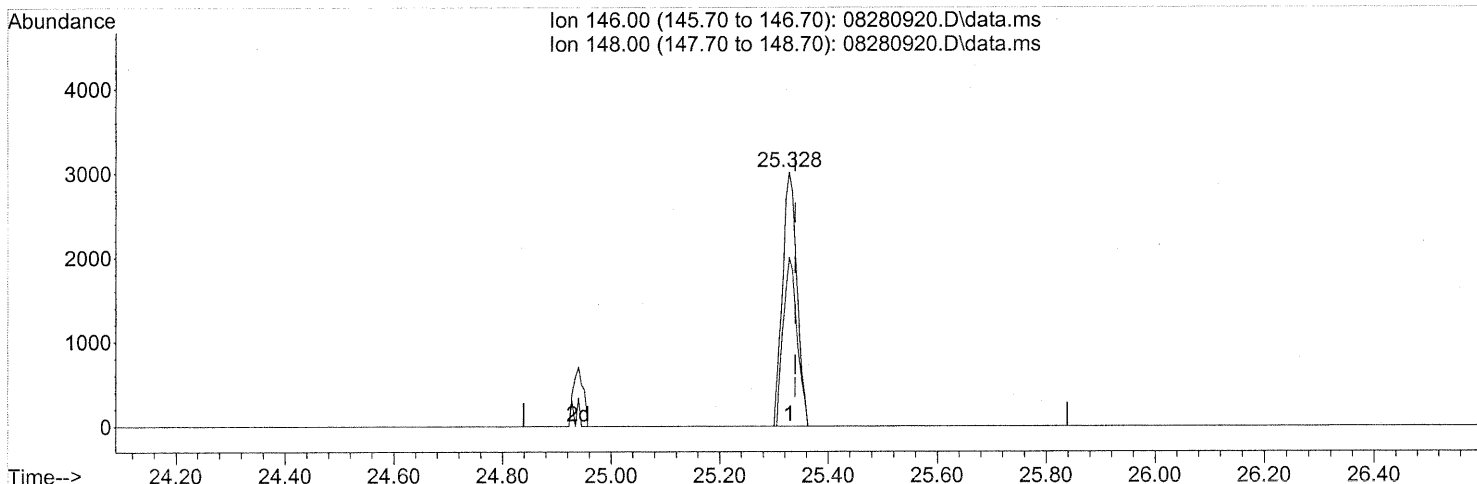
FP em 9/1/09

keq/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.11ng

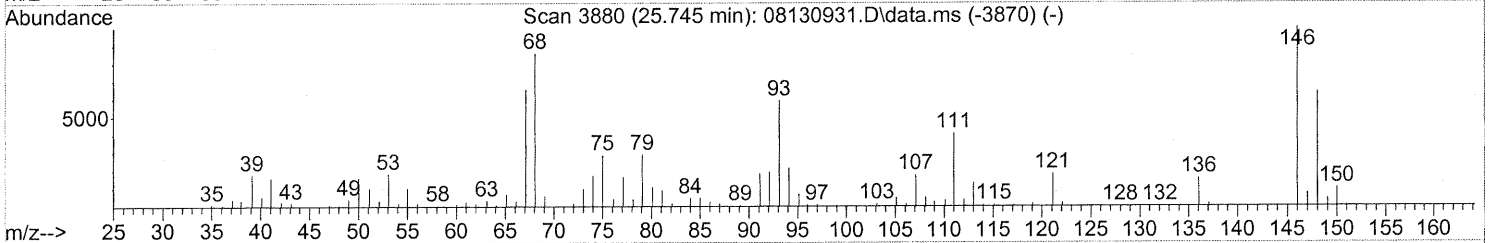
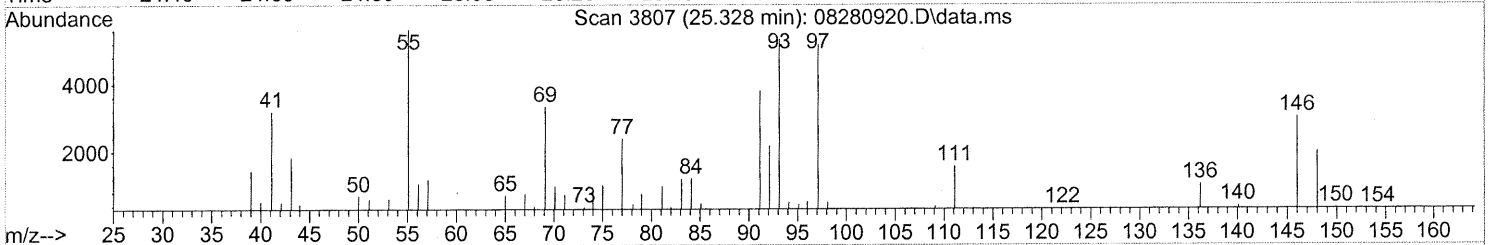
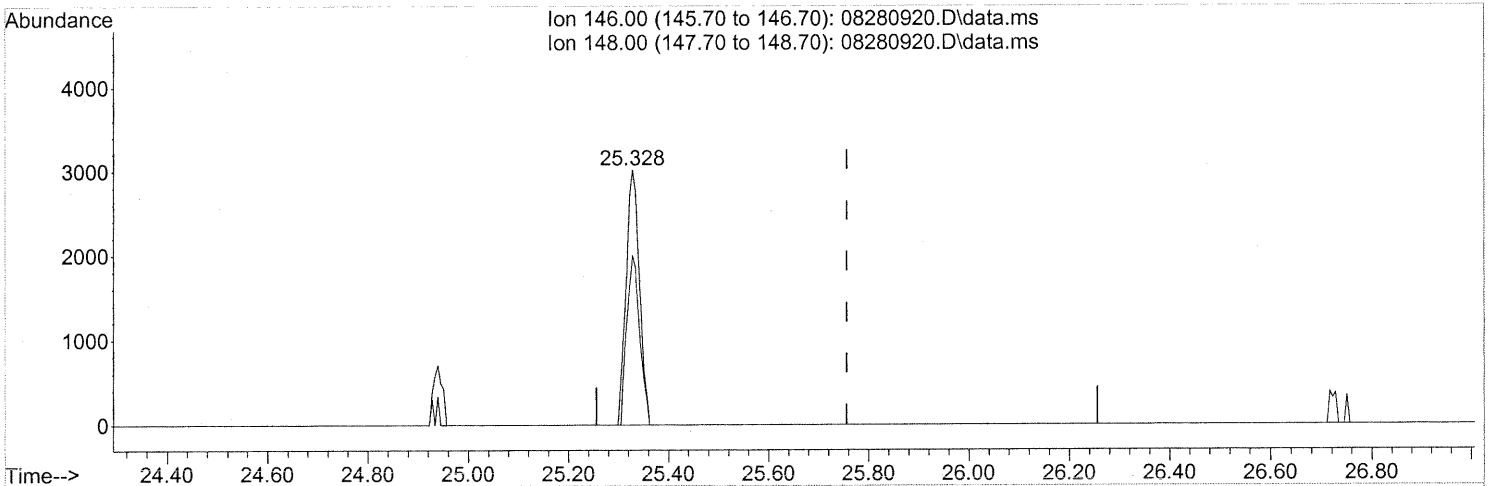
response 5577

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	63.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280920.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.328min (-0.428) 0.12ng

response 5577

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	63.89
0.00	0.00	0.00
0.00	0.00	0.00

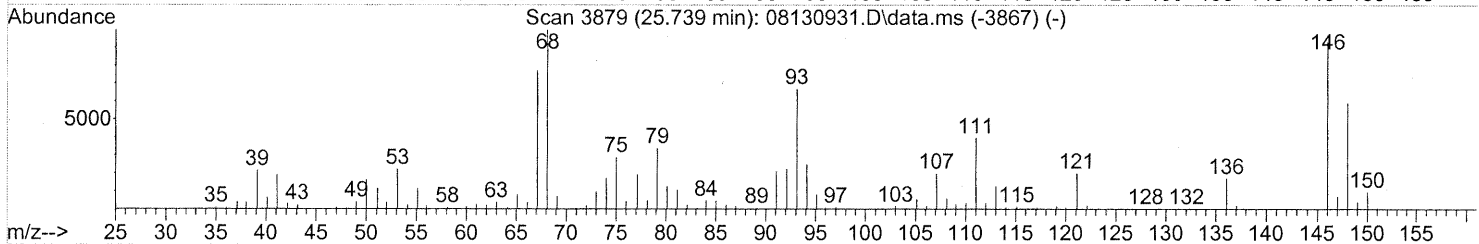
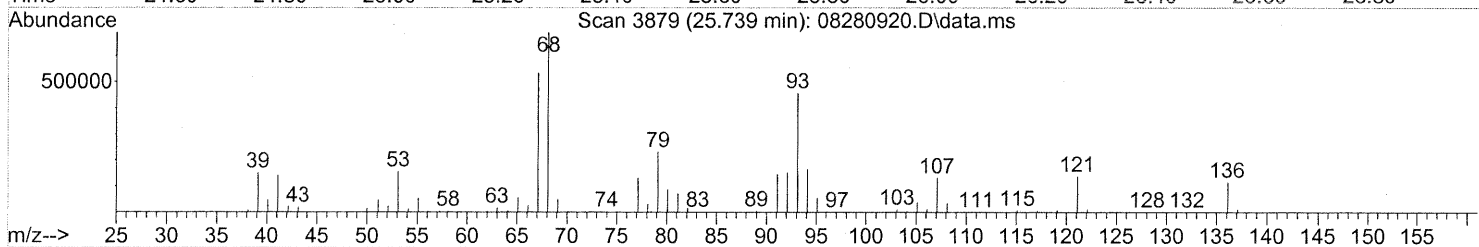
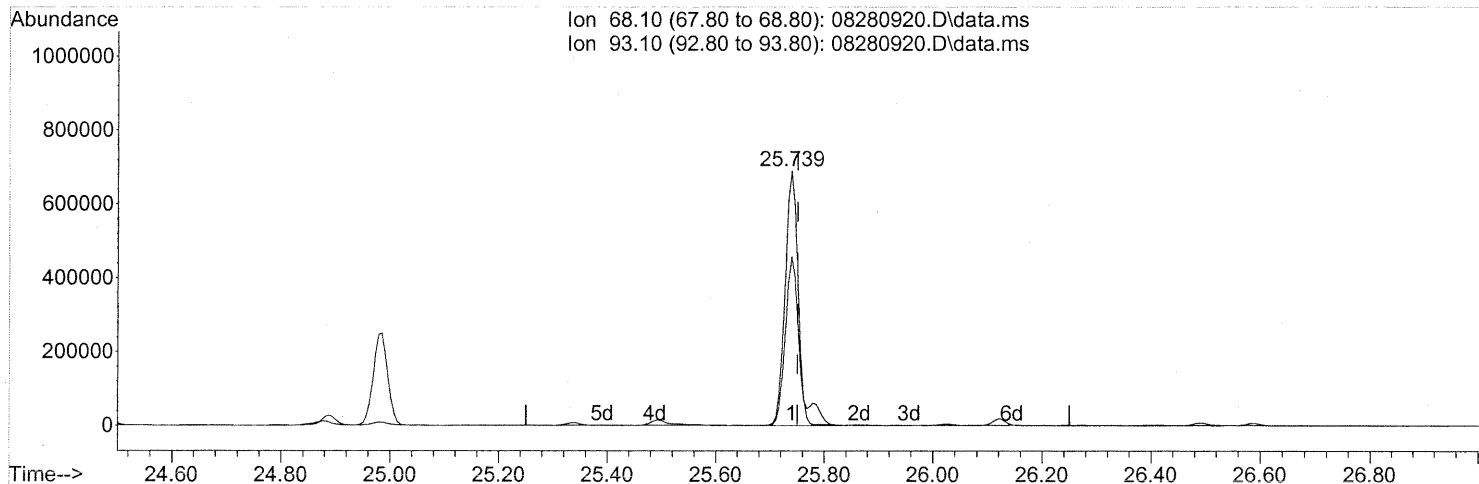
FP em 9/1/09

KR 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280920.D
 Acq On : 28 Aug 2009 19:37
 Operator : EM
 Sample : P0902899-001 (1000ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



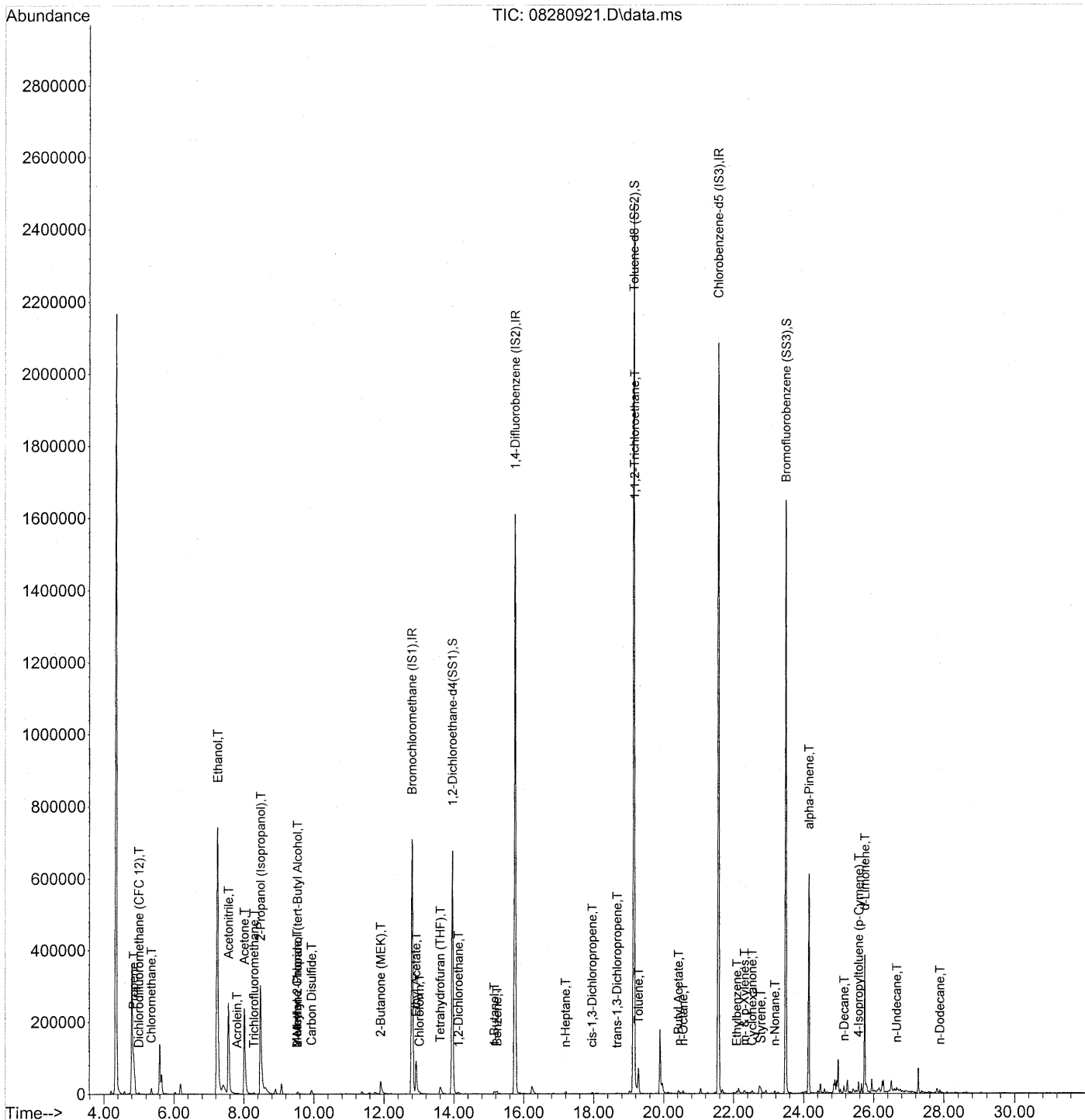
TIC: 08280920.D\data.ms

(91) d-Limonene (T)
 25.739min (-0.011) 30.45ng
 response 1131452

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	74.88
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280921.D
 Acq On : 28 Aug 2009 20:19
 Operator : EM
 Sample : P0902899-001 dil (100ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 15:46:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280921.D
 Acq On : 28 Aug 2009 20:19
 Operator : EM
 Sample : P0902899-001 dil (100ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 15:46:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	370266	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1882007	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	894448	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	670147	25.597	ng	-0.03	✓
Spiked Amount	25.000			Recovery	=	102.40%	
57) Toluene-d8 (SS2)	19.14	98	2167926	25.495	ng	-0.02	✓
Spiked Amount	25.000			Recovery	=	102.00%	
73) Bromofluorobenzene (SS3)	23.49	174	570944	23.709	ng	0.00	✓
Spiked Amount	25.000			Recovery	=	94.84%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	44414	1.367	ng	91
3) Dichlorodifluoromethan...	5.00	85	5146	0.111	ng	# 90
4) Chloromethane	5.36	50	3846	0.089	ng	87
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.24	45	1452978m	71.315	ng	
11) Acetonitrile	7.56	41	396683	7.978	ng	98
12) Acrolein	7.81	56	2708	0.204	ng	99
13) Acetone	8.01	58	137675	6.640	ng	96
14) Trichlorofluoromethane	8.29	101	4334	0.109	ng	86
15) 2-Propanol (Isopropanol)	8.47	45	712275	12.545	ng	95
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.53	59	4236	0.073	ng	# 1
19) Methylene Chloride	9.52	84	1702	0.066	ng	88
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.93	76	22365	0.245	ng	95
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	11.91	72	18534	1.282	ng	# 62
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.92	61	21770	2.323	ng	93
31) n-Hexane	12.92	57	1935	N.D.		

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em 9/1/09

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280921.D
 Acq On : 28 Aug 2009 20:19
 Operator : EM
 Sample : P0902899-001 dil (100ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 15:46:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	2440	0.064	ng	81
34) Tetrahydrofuran (THF)	13.61	72	8684	0.578	ng #	60
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	6041	0.206	ng	88
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.16	56	11908	0.488	ng #	69
41) Benzene	15.23	78	7999	0.079	ng	91
42) Carbon Tetrachloride	15.45	117	749	N.D.		
43) Cyclohexane	15.66	84	690	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	1813	N.D.		
50) Methyl Methacrylate	17.21	100	110	N.D.		
51) n-Heptane	17.20	71	1595	0.059	ng #	72
52) cis-1,3-Dichloropropene	17.96	75	4830	0.129	ng	90
53) 4-Methyl-2-pentanone	18.07	58	324	N.D.		
54) trans-1,3-Dichloropropene	18.67	75	2621	0.080	ng	68
55) 1,1,2-Trichloroethane	19.16	97	165645	7.660	ng #	8
58) Toluene	19.28	91	65454	0.635	ng	100
59) 2-Hexanone	19.59	43	851	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.42	43	13187	0.226	ng	93
63) n-Octane	20.56	57	1496	0.065	ng #	75
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	7450	0.067	ng	94
67) m- & p-Xylenes	22.31	91	10438	0.118	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.78	104	7536	0.116	ng	93
70) o-Xylene	22.92	91	4206	N.D.		
71) n-Nonane	23.17	43	3637	0.068	ng #	79
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.67	105	537	N.D.		
75) alpha-Pinene	24.15	93	291641	5.136	ng	96
76) n-Propylbenzene	24.29	91	1763	N.D.		
77) 3-Ethyltoluene	24.41	105	3835	N.D.		
78) 4-Ethyltoluene	24.47	105	2508	N.D.		
79) 1,3,5-Trimethylbenzene	24.55	105	1608	N.D.		

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280921.D
 Acq On : 28 Aug 2009 20:19
 Operator : EM
 Sample : P0902899-001 dil (100ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 15:46:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

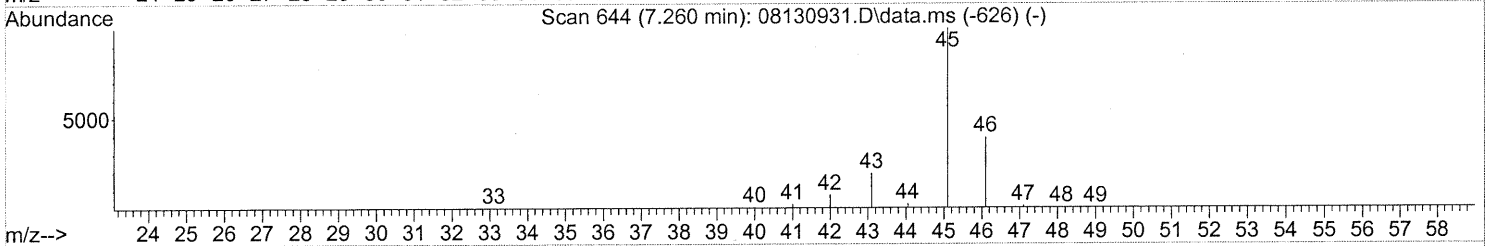
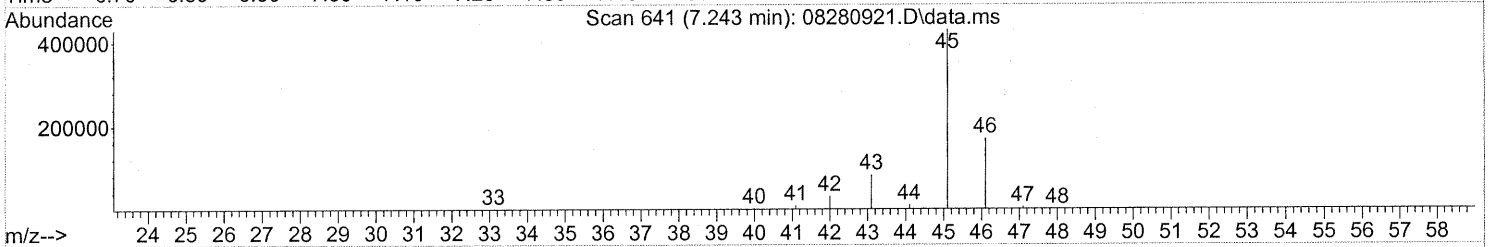
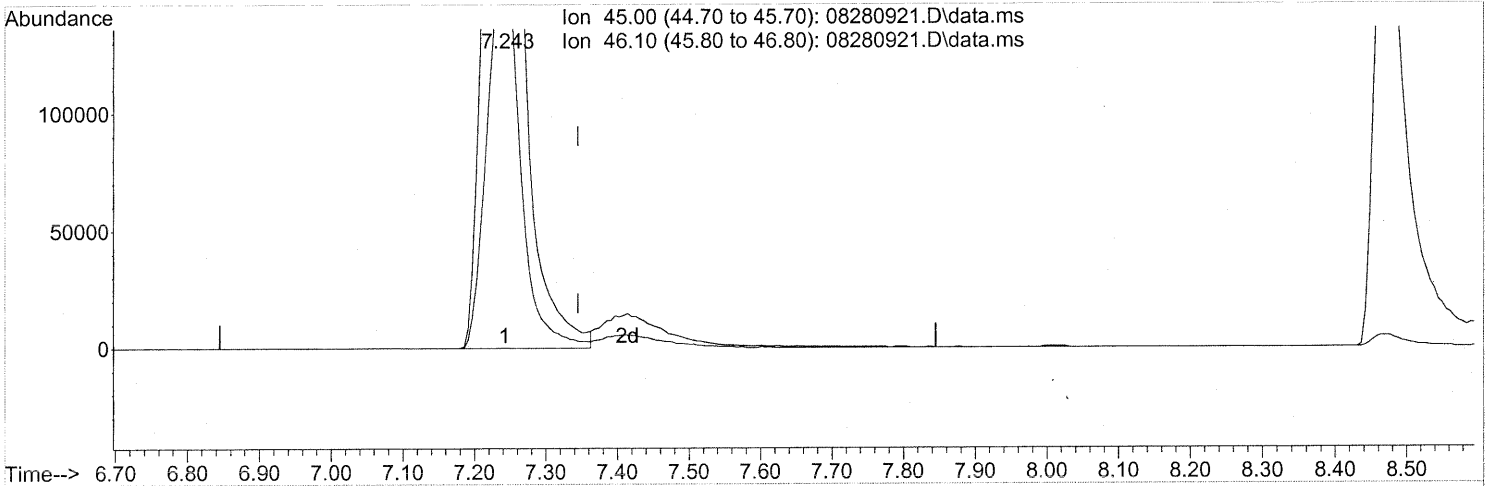
Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.95	118	121	N.D.		
81) 2-Ethyltoluene	24.79	105	1353	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	4748	N.D.		
83) n-Decane	25.15	57	9966	0.180	ng	83
84) Benzyl Chloride	25.34	91	744	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	236	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	236	N.D.		
87) sec-Butylbenzene	25.57	105	1882	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	15456	0.129	ng	98
89) 1,2,3-Trimethylbenzene	25.57	105	1882	N.D.		
90) 1,2-Dichlorobenzene	25.33	146	236	N.D.		
91) d-Limonene	25.74	68	105604	2.713	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	4644	0.081	ng	88
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.95	128	4660	N.D.		
96) n-Dodecane	27.89	57	3570	0.056	ng	85
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.53	55	3836	0.118	ng	# 85
99) tert-Butylbenzene	25.06	119	536	N.D.		
100) n-Butylbenzene	26.07	91	120	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280921.D
 Acq On : 28 Aug 2009 20:19
 Operator : EM
 Sample : P0902899-001 dil (100ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280921.D\data.ms

(10) Ethanol (T)
 7.243min (-0.103) 66.73ng
 response 1359601

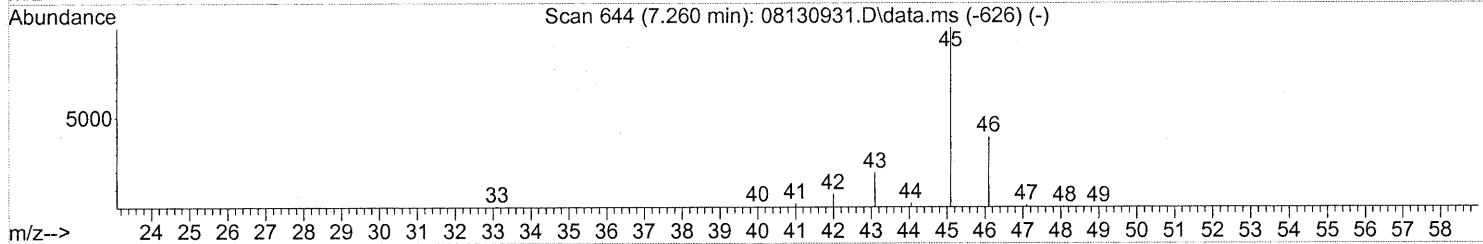
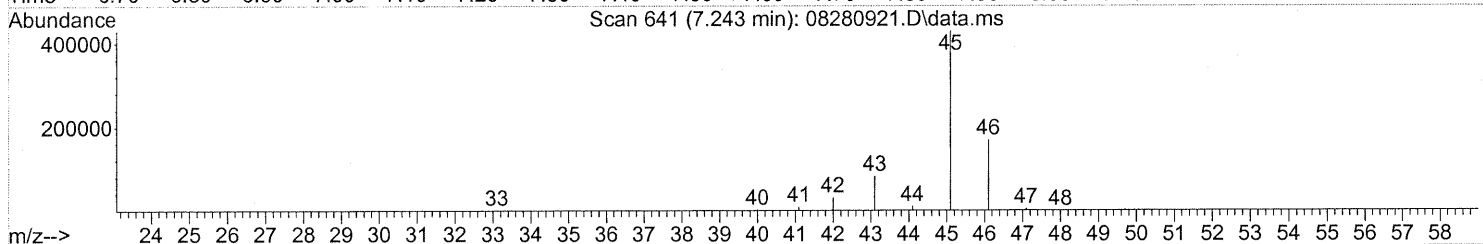
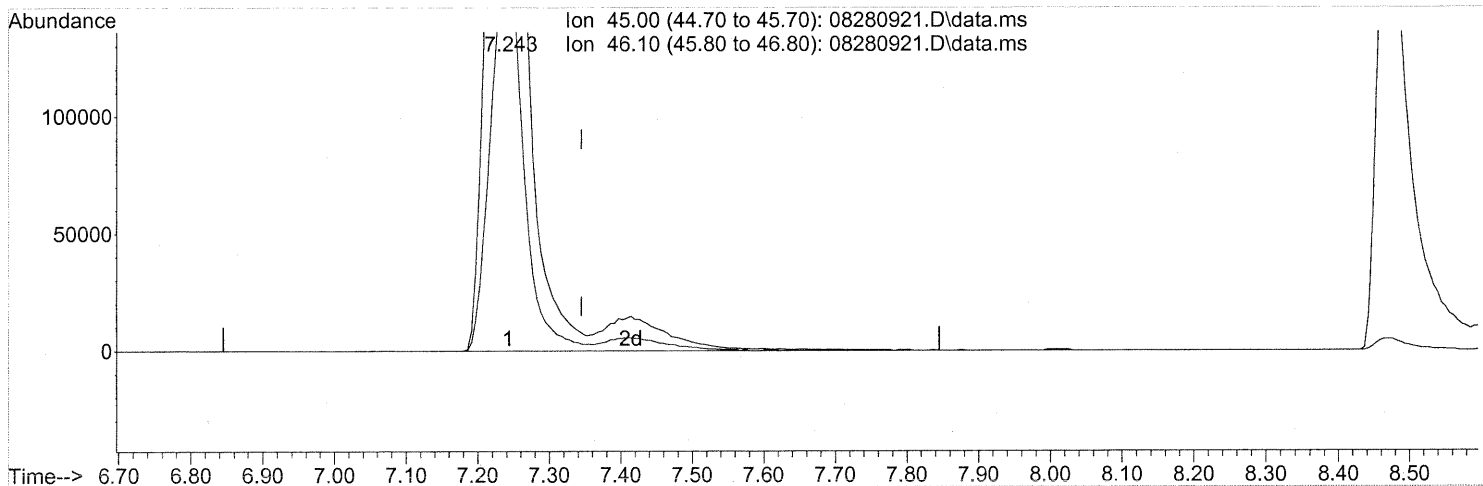
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.05
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280921.D
 Acq On : 28 Aug 2009 20:19
 Operator : EM
 Sample : P0902899-001 dil (100ml)
 Misc : Env. H & E 102515
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 08:07:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.243min (-0.103) 71.32ng m

response 1452978

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.54
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
Em 9/1/09
Kerblon

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102516
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01129

CAS Project ID: P0902899
CAS Sample ID: P0902899-002

Date Collected: 8/20/09
Date Received: 8/21/09
Date Analyzed: 8/28/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	65	0.81	38	0.47	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.81	0.53	0.16	
74-87-3	Chloromethane	1.1	0.16	0.52	0.078	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.81	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.063	
106-99-0	1,3-Butadiene	ND	0.16	ND	0.073	
74-83-9	Bromomethane	ND	0.16	ND	0.041	
75-00-3	Chloroethane	0.23	0.16	0.087	0.061	
64-17-5	Ethanol	1,600	8.1	840	4.3	D
75-05-8	Acetonitrile	180	0.81	110	0.48	D
107-02-8	Acrolein	5.1	0.81	2.2	0.35	
67-64-1	Acetone	160	8.1	69	3.4	
75-69-4	Trichlorofluoromethane	2.5	0.16	0.45	0.029	
67-63-0	2-Propanol (Isopropyl Alcohol)	230	0.81	94	0.33	
107-13-1	Acrylonitrile	ND	0.81	ND	0.37	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.041	
75-09-2	Methylene Chloride	0.97	0.81	0.28	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.051	
76-13-1	Trichlorotrifluoroethane	0.52	0.16	0.068	0.021	
75-15-0	Carbon Disulfide	5.6	0.81	1.8	0.26	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.041	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	ND	0.045	
108-05-4	Vinyl Acetate	11	8.1	3.2	2.3	
78-93-3	2-Butanone (MEK)	32	0.81	11	0.27	

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

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

D = The reported result is from a dilution.

Verified By: Re

Date: 9/6/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102516

Client Project ID: 16512

CAS Project ID: P0902899

CAS Sample ID: P0902899-002

Test Code: EPA TO-15

Date Collected: 8/20/09

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

Date Received: 8/21/09

Analyst: Elsa Moctezuma

Date Analyzed: 8/28/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.10 Liter(s)

Container ID: AC01129

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.041	
141-78-6	Ethyl Acetate	63	1.6	18	0.45	
110-54-3	n-Hexane	1.2	0.81	0.35	0.23	
67-66-3	Chloroform	1.7	0.16	0.35	0.033	
109-99-9	Tetrahydrofuran (THF)	14	0.81	4.8	0.27	
107-06-2	1,2-Dichloroethane	5.0	0.16	1.2	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.030	
71-43-2	Benzene	1.7	0.16	0.54	0.050	
56-23-5	Carbon Tetrachloride	0.98	0.16	0.16	0.026	
110-82-7	Cyclohexane	ND	0.81	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.035	
75-27-4	Bromodichloromethane	ND	0.16	ND	0.024	
79-01-6	Trichloroethene	ND	0.16	ND	0.030	
123-91-1	1,4-Dioxane	ND	0.81	ND	0.22	
80-62-6	Methyl Methacrylate	ND	1.6	ND	0.39	
142-82-5	n-Heptane	1.8	0.81	0.43	0.20	
10061-01-5	cis-1,3-Dichloropropene	3.7	0.81	0.81	0.18	
108-10-1	4-Methyl-2-pentanone	1.7	0.81	0.40	0.20	
10061-02-6	trans-1,3-Dichloropropene	2.7	0.81	0.58	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.030	
108-88-3	Toluene	17	0.81	4.6	0.21	
591-78-6	2-Hexanone	1.4	0.81	0.34	0.20	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.021	
123-86-4	n-Butyl Acetate	7.7	0.81	1.6	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: Rc Date: 9/10/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102516
Client Project ID: 16512

CAS Project ID: P0902899
 CAS Sample ID: P0902899-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01129

Date Collected: 8/20/09
 Date Received: 8/21/09
 Date Analyzed: 8/28/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.7	0.81	0.36	0.17	
127-18-4	Tetrachloroethene	0.24	0.16	0.035	0.024	
108-90-7	Chlorobenzene	ND	0.16	ND	0.035	
100-41-4	Ethylbenzene	2.0	0.81	0.46	0.19	
179601-23-1	m,p-Xylenes	3.2	0.81	0.73	0.19	
75-25-2	Bromoform	ND	0.81	ND	0.078	
100-42-5	Styrene	2.9	0.81	0.68	0.19	
95-47-6	o-Xylene	1.2	0.81	0.29	0.19	
111-84-2	n-Nonane	1.5	0.81	0.28	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
98-82-8	Cumene	ND	0.81	ND	0.16	
80-56-8	alpha-Pinene	130	0.81	23	0.14	
103-65-1	n-Propylbenzene	ND	0.81	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.81	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.81	ND	0.16	
95-63-6	1,2,4-Trimethylbenzene	1.1	0.81	0.23	0.16	
100-44-7	Benzyl Chloride	ND	0.16	ND	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.027	
106-46-7	1,4-Dichlorobenzene	0.22	0.16	0.037	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.16	ND	0.027	
5989-27-5	d-Limonene	60	0.81	11	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.81	ND	0.083	
120-82-1	1,2,4-Trichlorobenzene	ND	0.81	ND	0.11	
91-20-3	Naphthalene	ND	0.81	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.81	ND	0.075	

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.

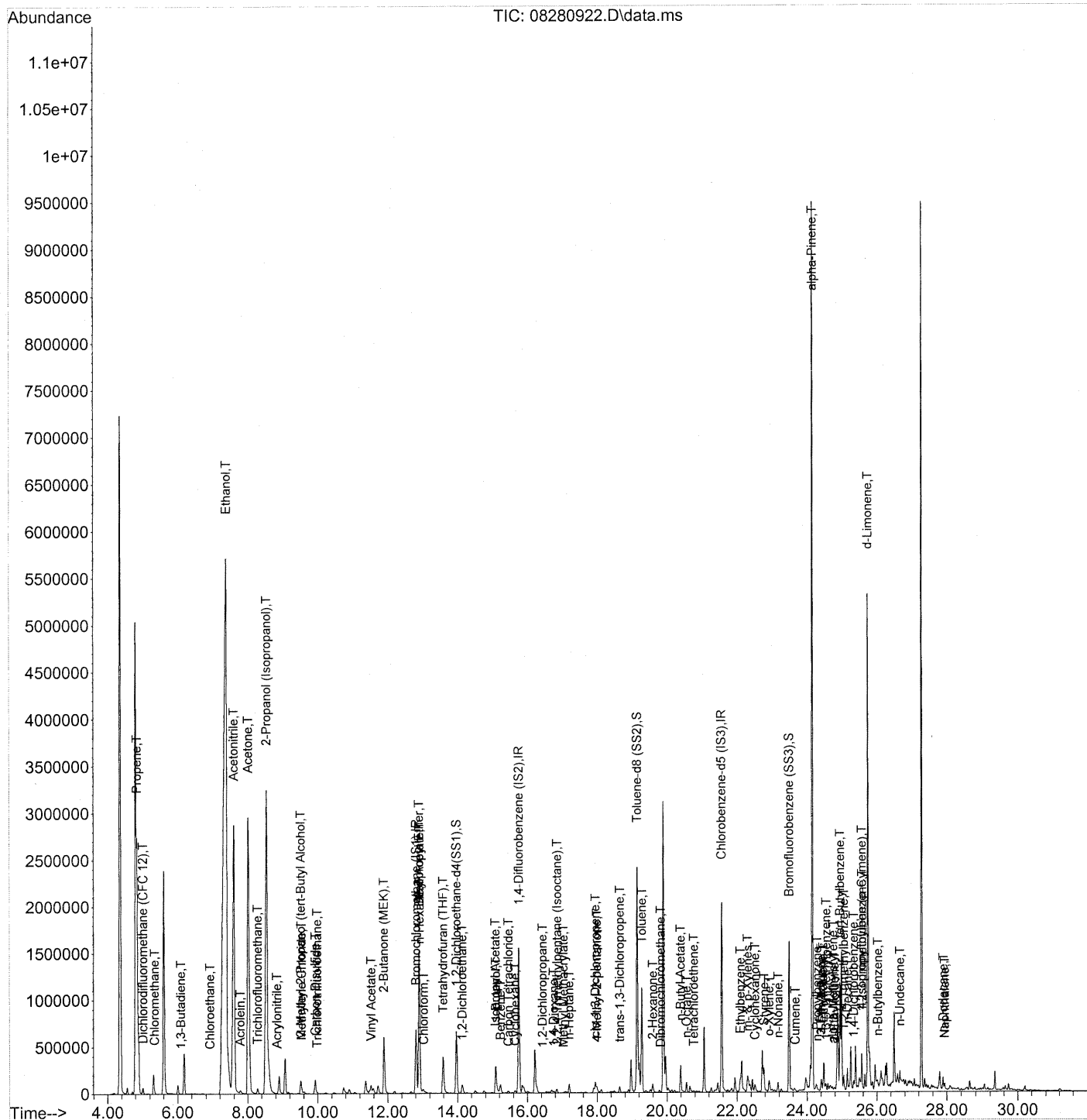
Verified By: Re

Date: 9/2/09

65

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280922.D
Acq On : 28 Aug 2009 21:00
Operator : EM
Sample : P0902899-002 (1000ml)
Misc : Env. H & E 102516
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 10:41:28 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516 ✓
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 10:41:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	361271	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1834789	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	862156	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	650072	25.448	ng	-0.02	
Spiked Amount	25.000			Recovery	=	101.80%	✓
57) Toluene-d8 (SS2)	19.15	98	2101446	25.639	ng	-0.01	✓
Spiked Amount	25.000			Recovery	=	102.56%	
73) Bromofluorobenzene (SS3)	23.49	174	572099	24.647	ng	0.00	✓
Spiked Amount	25.000			Recovery	=	98.60%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	1286817	40.605	ng	97
3) Dichlorodifluoromethan...	5.01	85	73117	1.616	ng	99
4) Chloromethane	5.34	50	27859	0.661	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	1087	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	2294	0.078	ng #	82
8) Bromomethane	6.57	94	961	N.D.		
9) Chloroethane	6.92	64	2942	0.143	ng	78
10) Ethanol	7.39	45	21407317	1076.878	ng	99
11) Acetonitrile	7.60	41	5433345	111.996	ng	99
12) Acrolein	7.79	56	41155	3.175	ng	97
13) Acetone	8.01	58	2070965	102.376	ng	92
14) Trichlorofluoromethane	8.28	101	60078	1.553	ng	99
15) 2-Propanol (Isopropanol)	8.53	45	7977280	143.997	ng	94
16) Acrylonitrile	8.83	53	4362	0.148	ng	93
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.51	59	36037	0.641	ng #	1
19) Methylene Chloride	9.53	84	15249	0.604	ng	87
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.98	151	5620	0.325	ng	97
22) Carbon Disulfide	9.93	76	310543	3.487	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.37	73	1297	N.D.		
26) Vinyl Acetate	11.52	86	30258	6.906	ng #	49
27) 2-Butanone (MEK)	11.89	72	277360	19.667	ng #	83
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.90	87	6628	0.331	ng #	1
30) Ethyl Acetate	12.90	61	359198	39.277	ng	94
31) n-Hexane	12.92	57	34353	0.771	ng	95

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Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 10:41:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	39257	1.052 ng		98
34) Tetrahydrofuran (THF)	13.58	72	129218	8.813 ng	#	62
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	89114	3.121 ng		99
38) 1,1,1-Trichloroethane	14.52	97	1249	N.D.		
39) Isopropyl Acetate	15.08	61	5120	0.342 ng	#	1
40) 1-Butanol	15.09	56	264320	11.117 ng	#	79
41) Benzene	15.23	78	105349	1.068 ng		97
42) Carbon Tetrachloride	15.46	117	16769	0.608 ng		100
43) Cyclohexane	15.65	84	15206	0.398 ng		93
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.43	63	1641	0.068 ng		92
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.78	130	129	N.D.		
48) 1,4-Dioxane	16.75	88	1730	0.099 ng		83
49) 2,2,4-Trimethylpentane...	16.85	57	27405	0.241 ng		70
50) Methyl Methacrylate	17.04	100	1005	0.102 ng	#	1
51) n-Heptane	17.20	71	28563	1.087 ng		92
52) cis-1,3-Dichloropropene	17.95	75	83647	2.293 ng		99
53) 4-Methyl-2-pentanone	17.99	58	21939	1.029 ng		96
54) trans-1,3-Dichloropropene	18.65	75	52526	1.646 ng		99
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	19.28	91	1064381	10.713 ng		100
59) 2-Hexanone	19.59	43	44134	0.855 ng		92
60) Dibromochloromethane	19.82	129	1833	0.086 ng		96
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	269995	4.792 ng		98
63) n-Octane	20.56	57	23016	1.039 ng		88
64) Tetrachloroethene	20.76	166	3641	0.148 ng	yes	99
65) Chlorobenzene	21.62	112	1383	N.D.		
66) Ethylbenzene	22.09	91	134460	1.253 ng		96
67) m- & p-Xylenes	22.30	91	167011	1.964 ng		99
68) Bromoform	22.41	173	609	N.D.		
69) Styrene	22.77	104	112299	1.786 ng		99
70) o-Xylene	22.92	91	66115	0.773 ng		96
71) n-Nonane	23.17	43	47003	0.912 ng		87
72) 1,1,2,2-Tetrachloroethane	22.92	83	1107	N.D.		
74) Cumene	23.66	105	9613	0.087 ng		99
75) alpha-Pinene	24.15	93	4420869	80.778 ng		100
76) n-Propylbenzene	24.28	91	24408	0.178 ng		86
77) 3-Ethyltoluene	24.40	105	46844	0.451 ng		97
78) 4-Ethyltoluene	24.46	105	27308	0.261 ng		82
79) 1,3,5-Trimethylbenzene	24.55	105	20288	0.235 ng		96

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 10:41:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

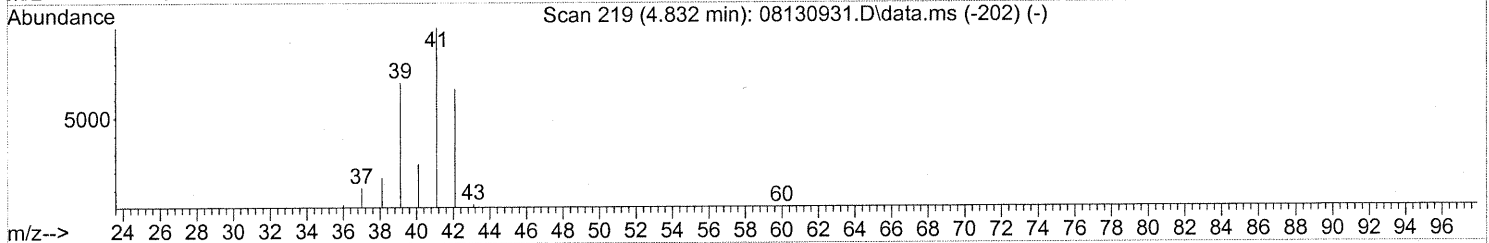
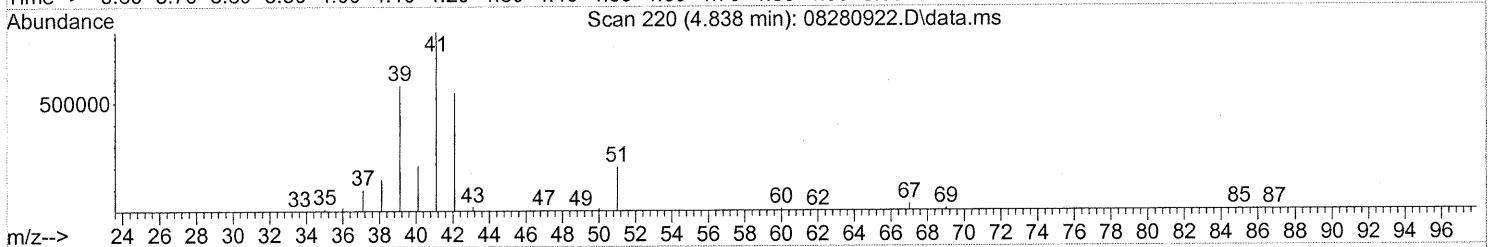
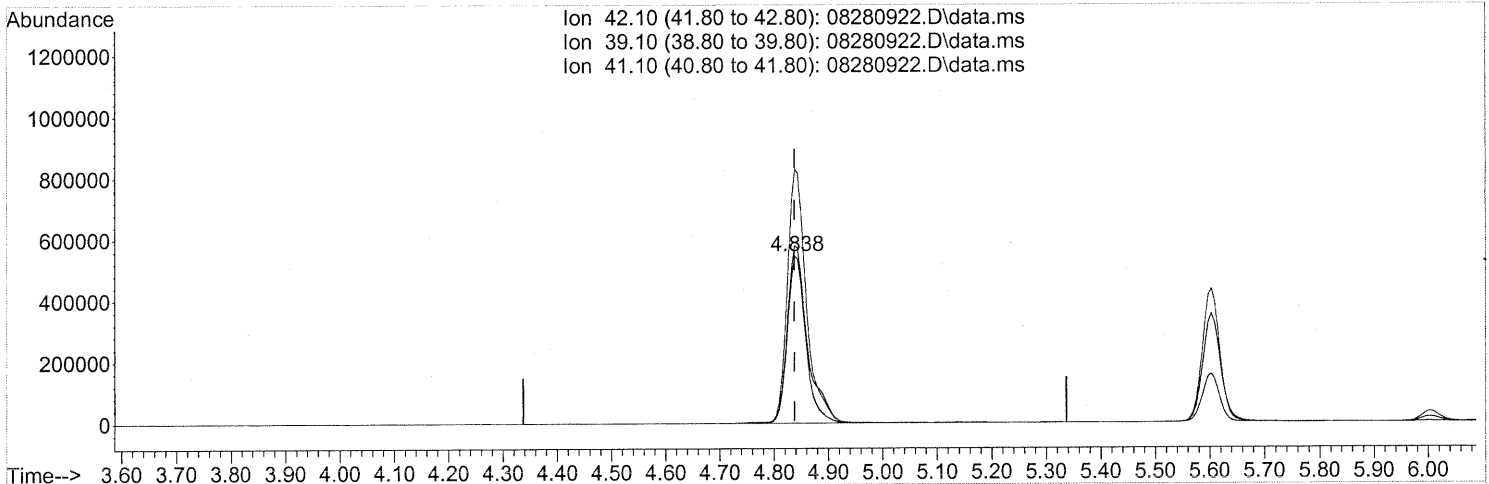
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	2448	0.052	ng	81
81) 2-Ethyltoluene	24.79	105	18535	0.173	ng	98
82) 1,2,4-Trimethylbenzene	25.05	105	64055	0.698	ng	89
83) n-Decane	25.15	57	97205	1.821	ng	97
84) Benzyl Chloride	25.23	91	1346	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.33	146	6901	0.137	ng	98
87) sec-Butylbenzene	25.38	105	3076	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	181099	1.564	ng	98
89) 1,2,3-Trimethylbenzene	25.57	105	29229	0.315	ng	# 47
90) 1,2-Dichlorobenzene	25.75	146	109	N.D.		
91) d-Limonene	25.74	68	1402505	37.376	ng	93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	72721	1.318	ng	85
94) 1,2,4-Trichlorobenzene	27.79	180	1271	N.D.		
95) Naphthalene	27.94	128	47503	0.386	ng	100
96) n-Dodecane	27.89	57	44940	0.728	ng	95
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	35088	1.121	ng	92
99) tert-Butylbenzene	24.94	119	28140	0.309	ng	93
100) n-Butylbenzene	26.02	91	33413	0.347	ng	# 48

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(2) Propene (T)

4.838min (+0.000) 40.61ng

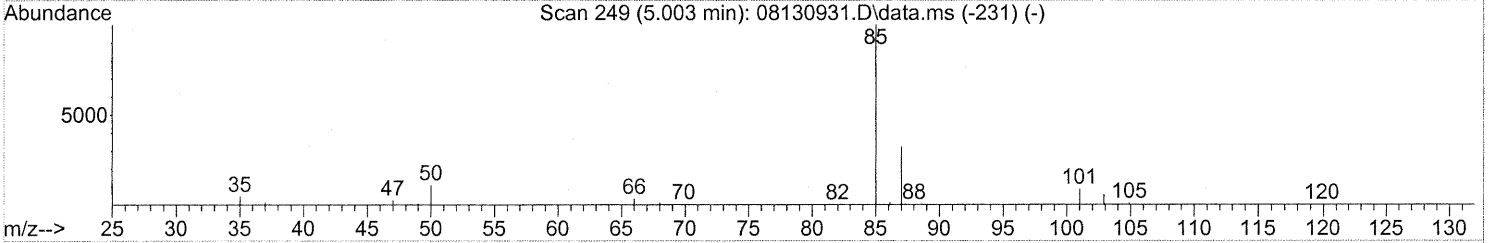
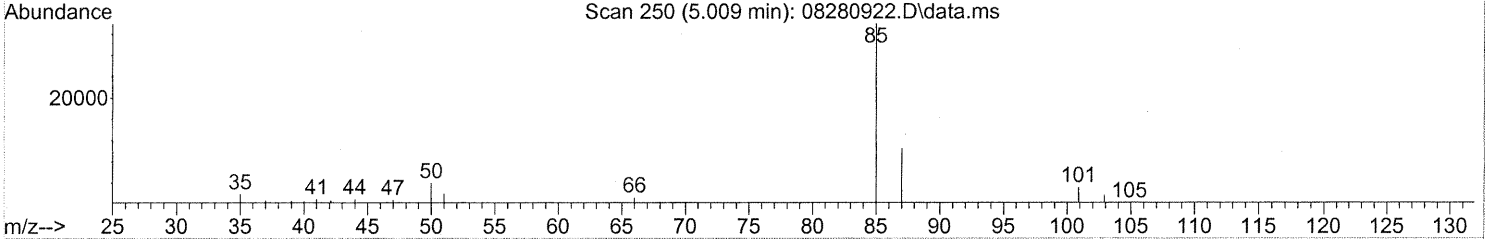
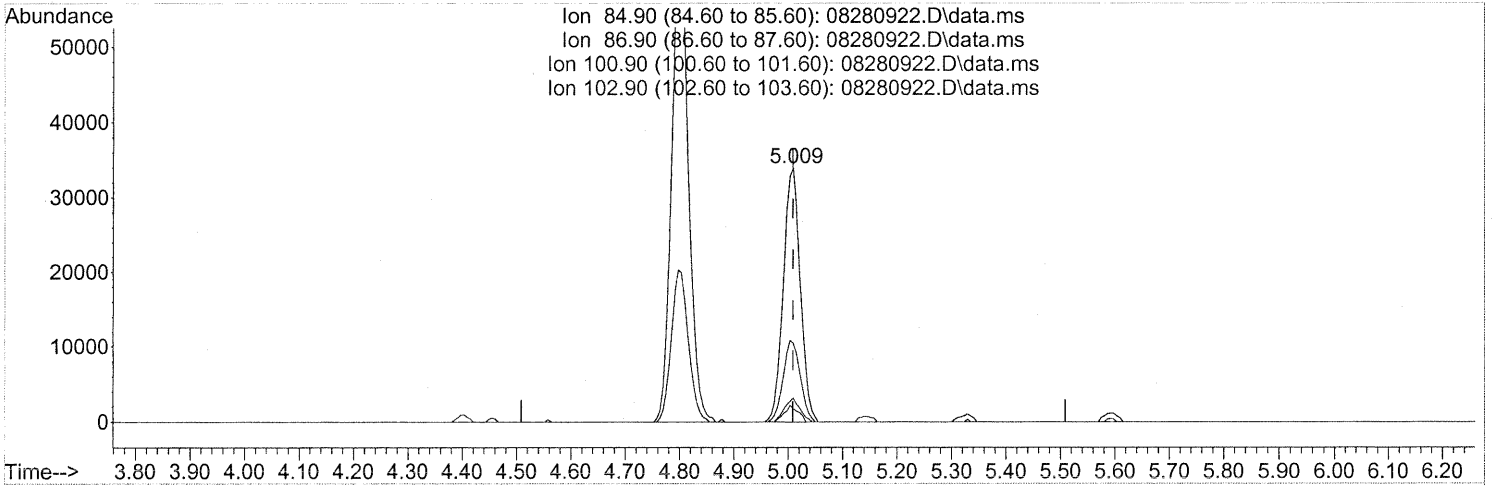
response 1286817

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	116.95
41.10	152.70	158.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

5.009min (+0.000) 1.62ng

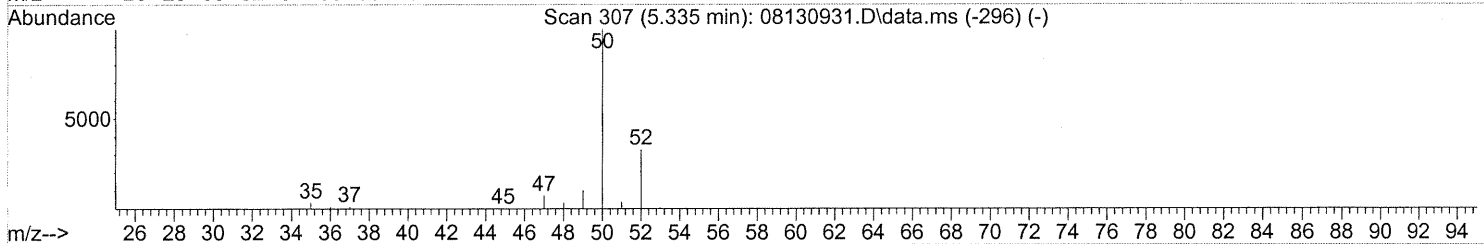
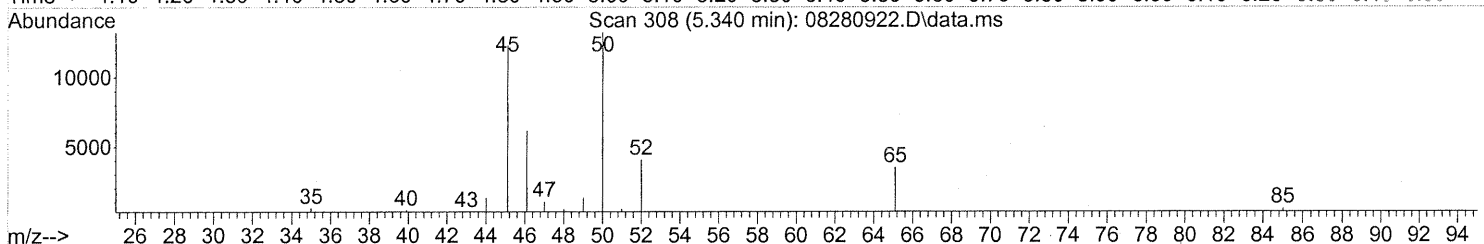
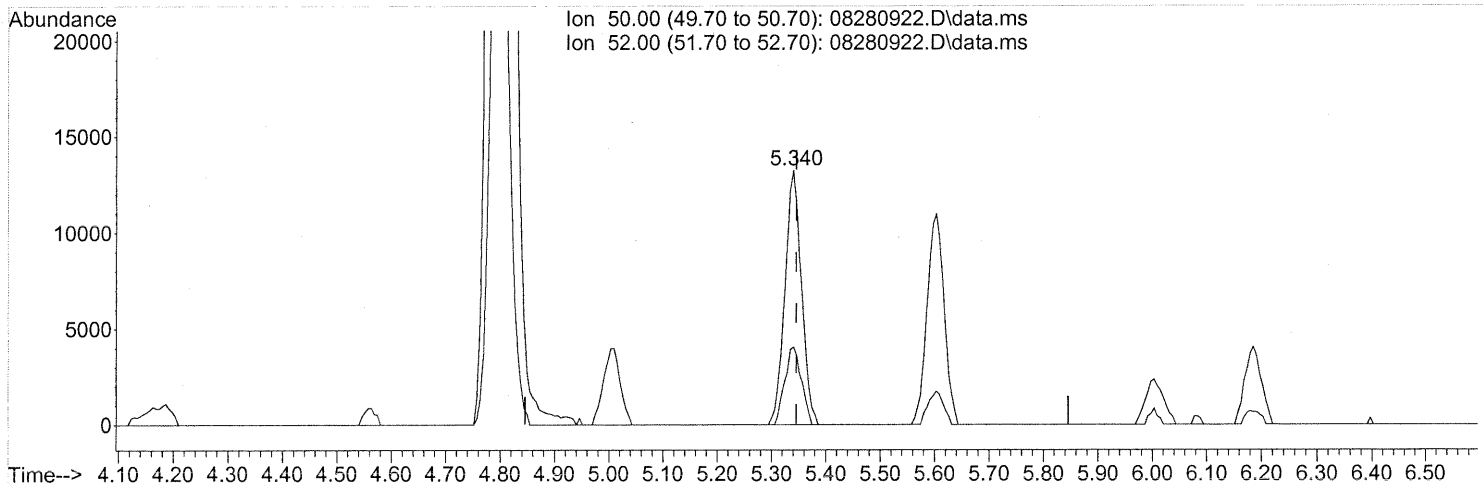
response 73117

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.12
100.90	9.10	8.36
102.90	5.50	5.08

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(4) Chloromethane (T)
 5.340min (-0.006) 0.66ng
 response 27859

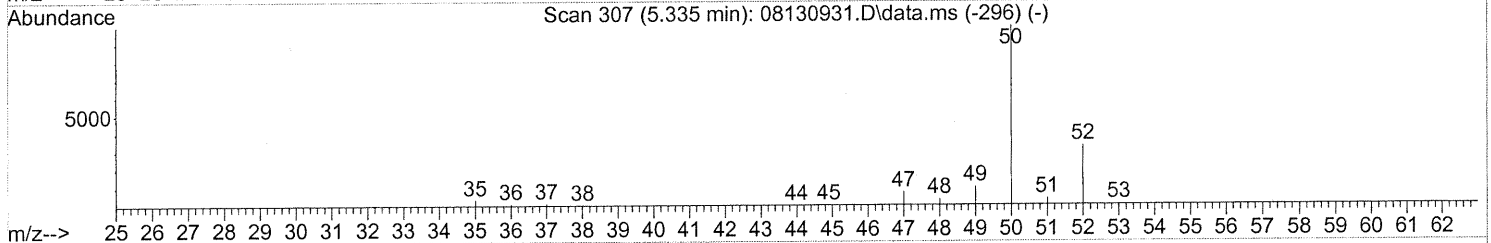
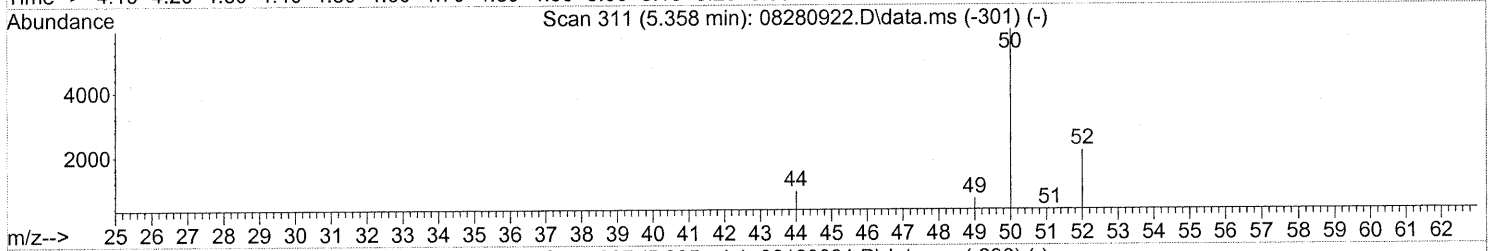
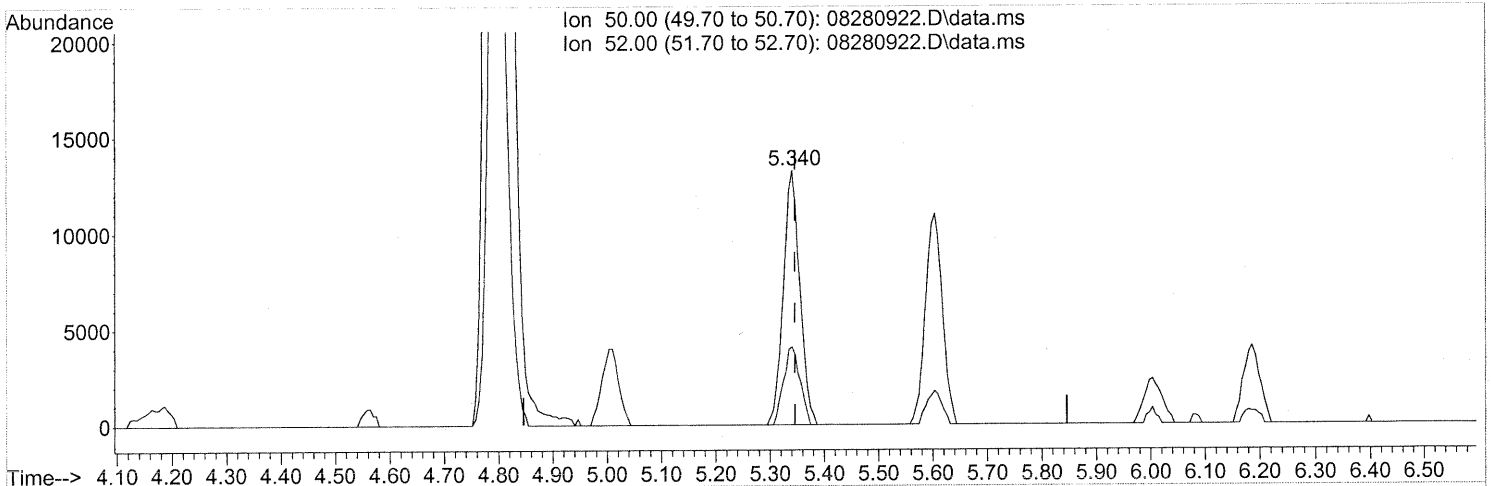
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.59
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(4) Chloromethane (T)

5.340min (-0.006) 0.66ng

response 27859

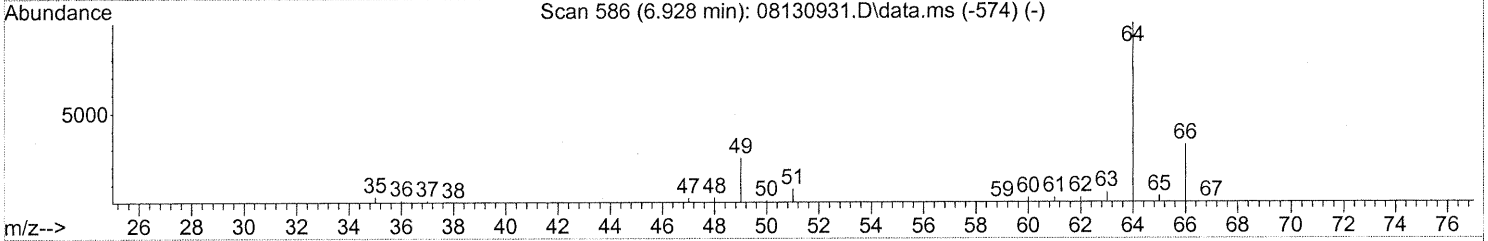
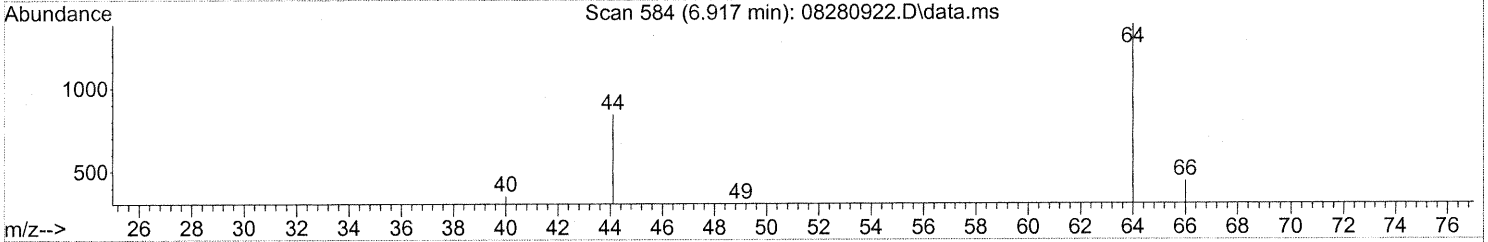
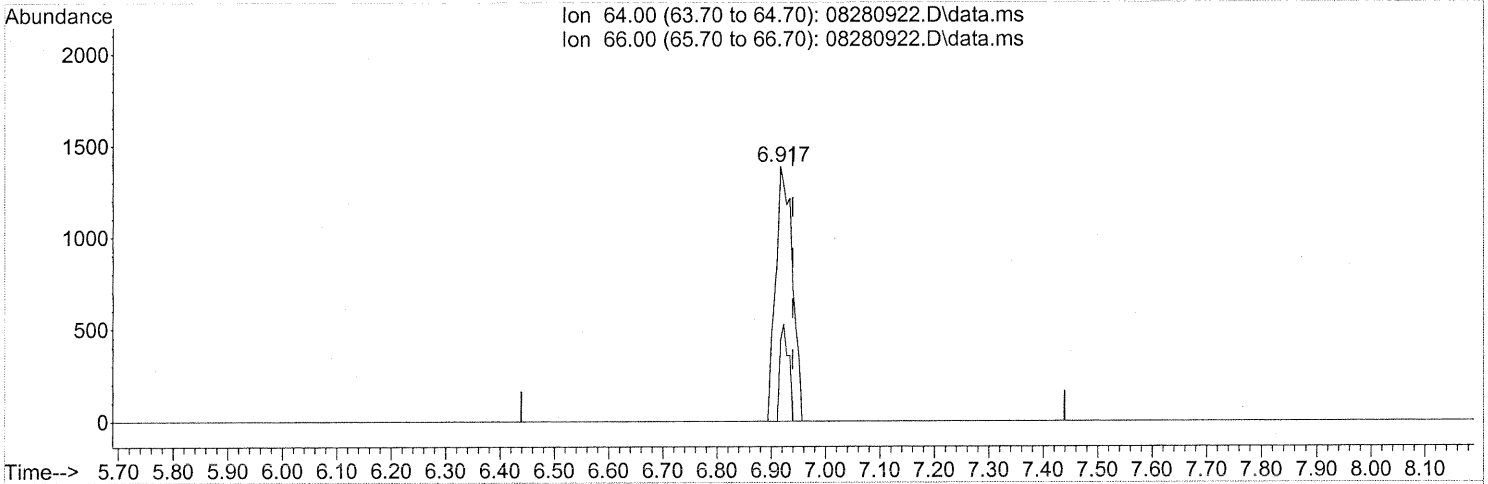
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.59
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
em 9/1/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(9) Chloroethane (T)

6.917min (-0.023) 0.14ng

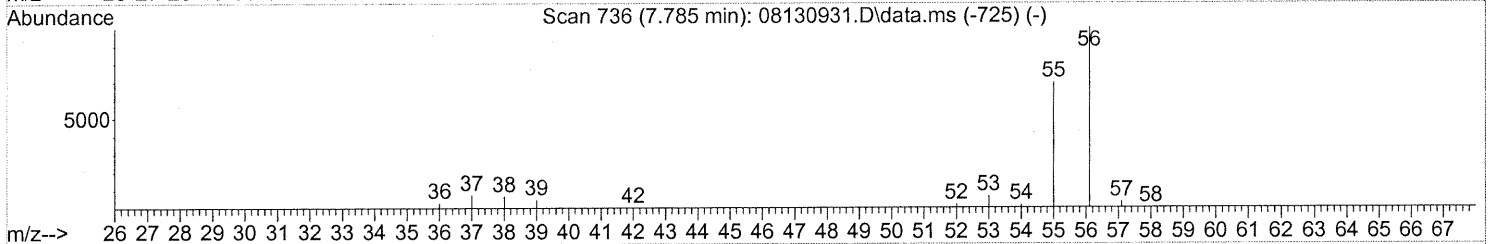
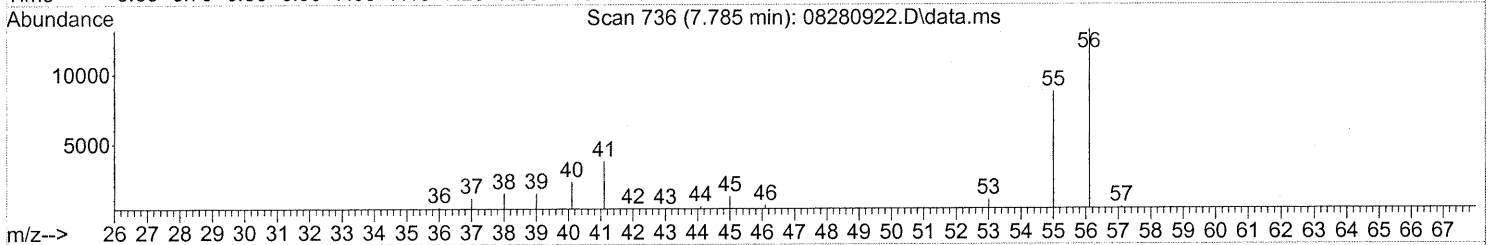
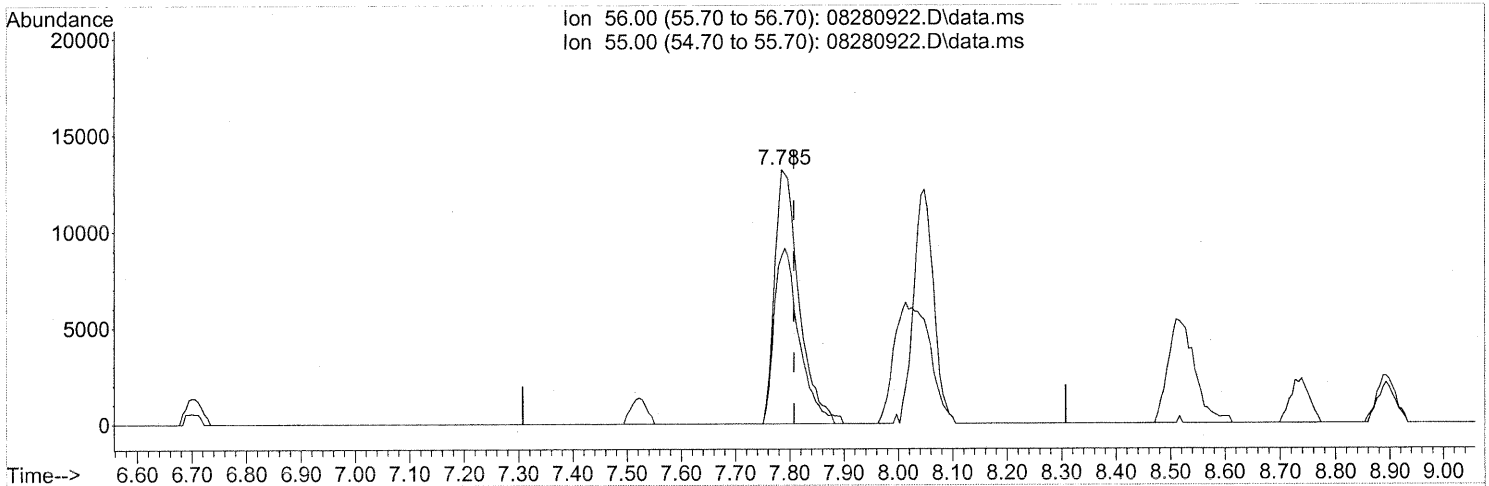
response 2942

Ion	Exp%	Act%
64.00	100	100
66.00	31.90	19.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

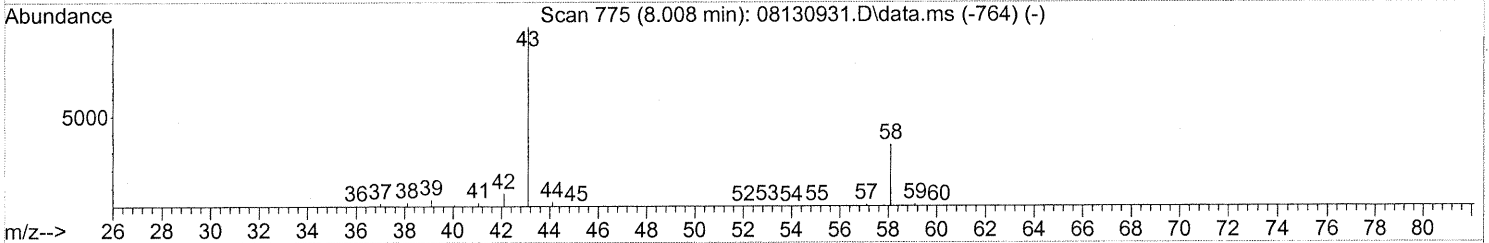
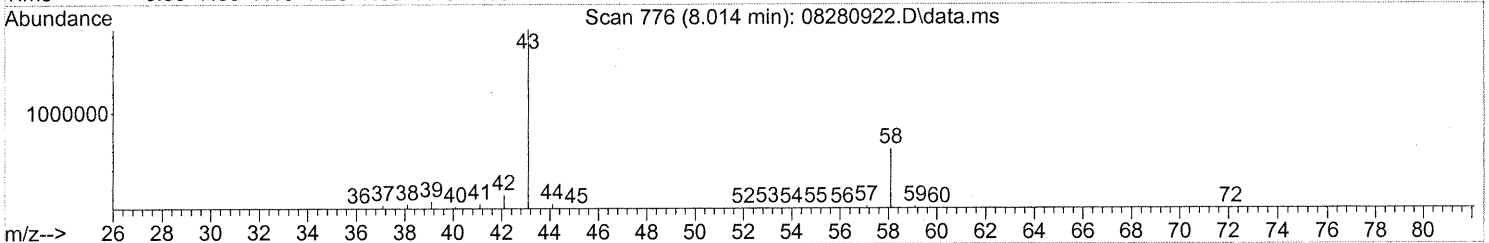
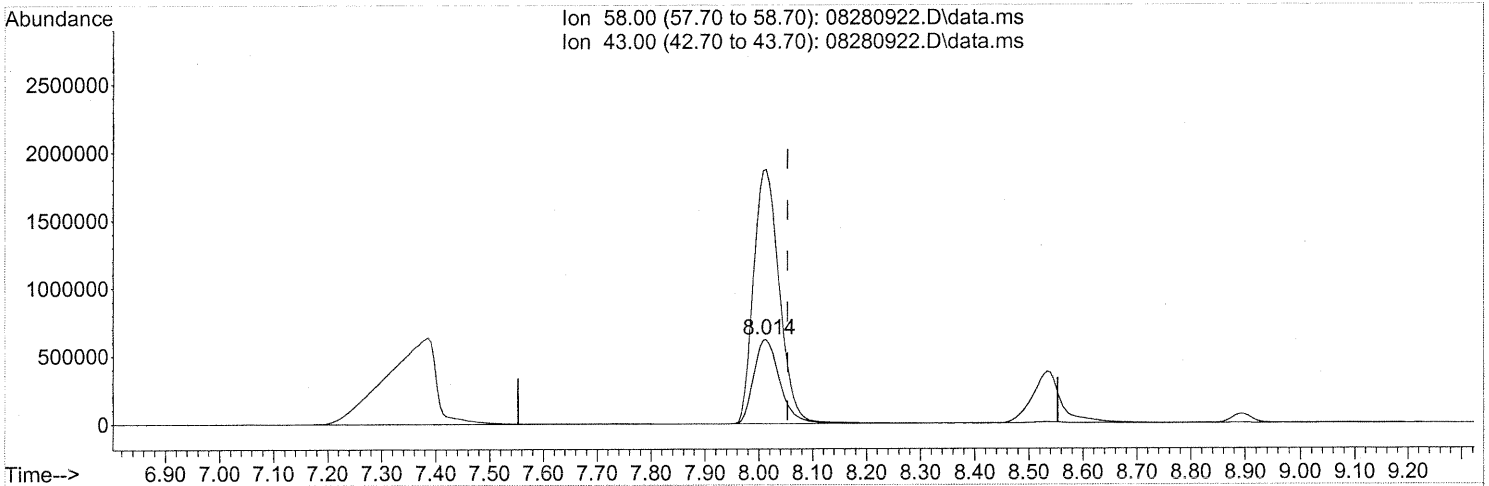
(12) Acrolein (T)
 7.785min (-0.023) 3.17ng
 response 41155

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	69.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

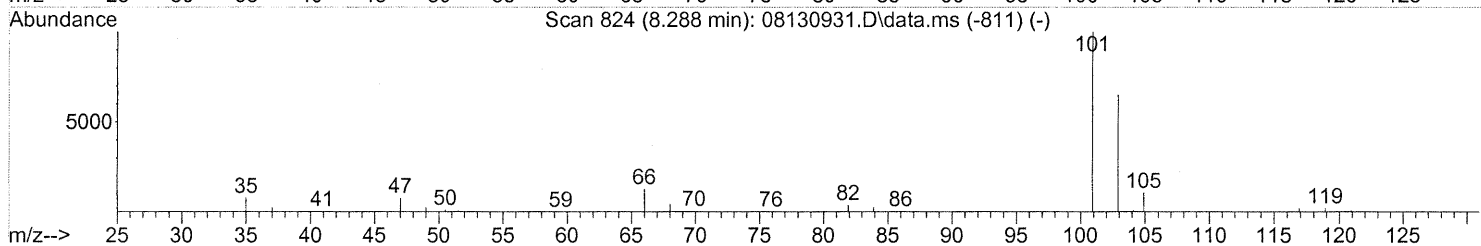
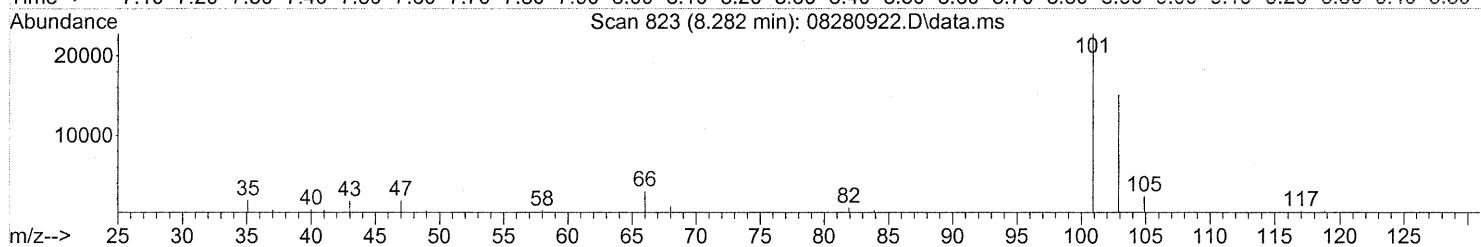
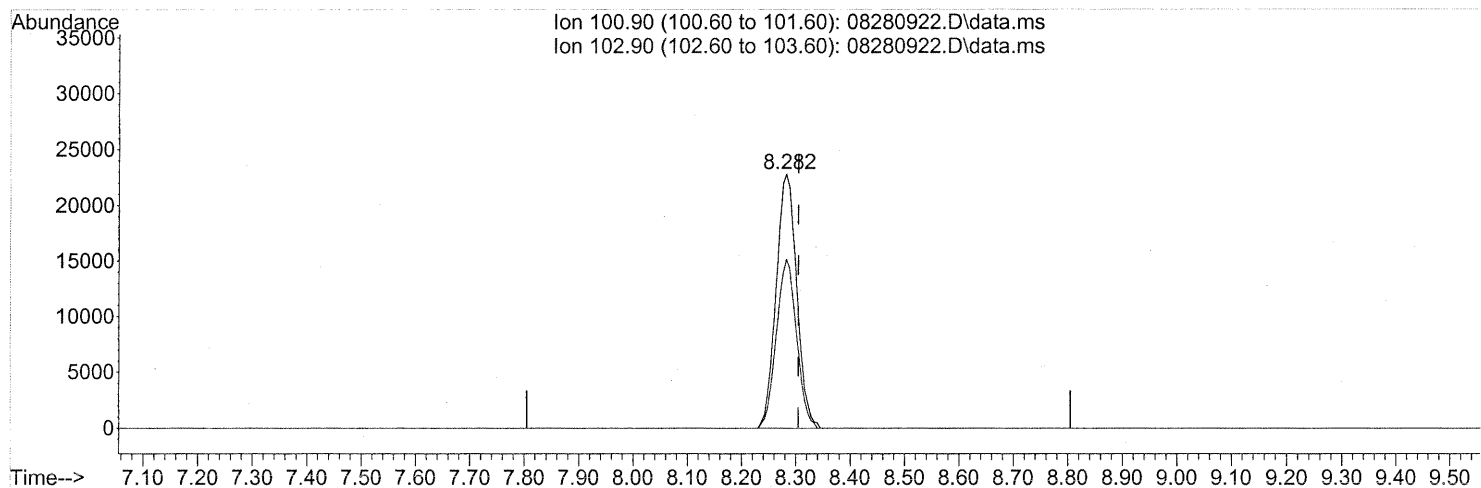
(13) Acetone (T)
 8.014min (-0.040) 102.38ng
 response 2070965

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	302.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 1.55ng

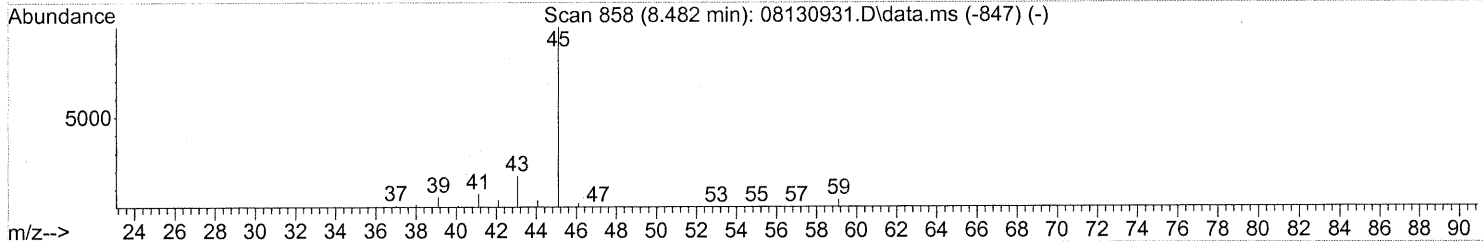
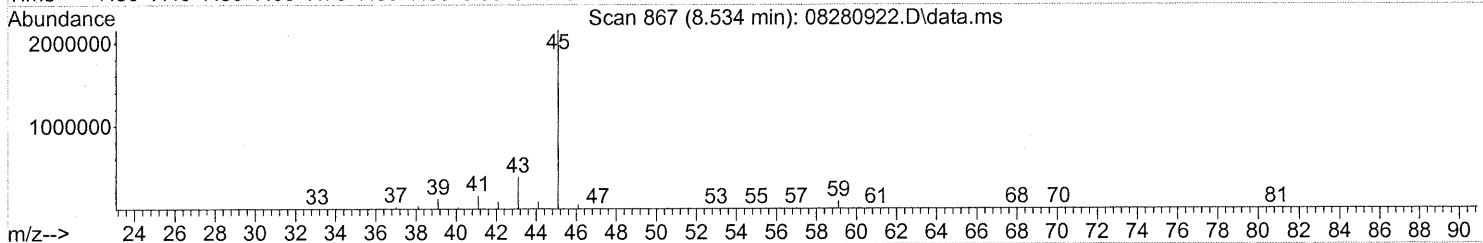
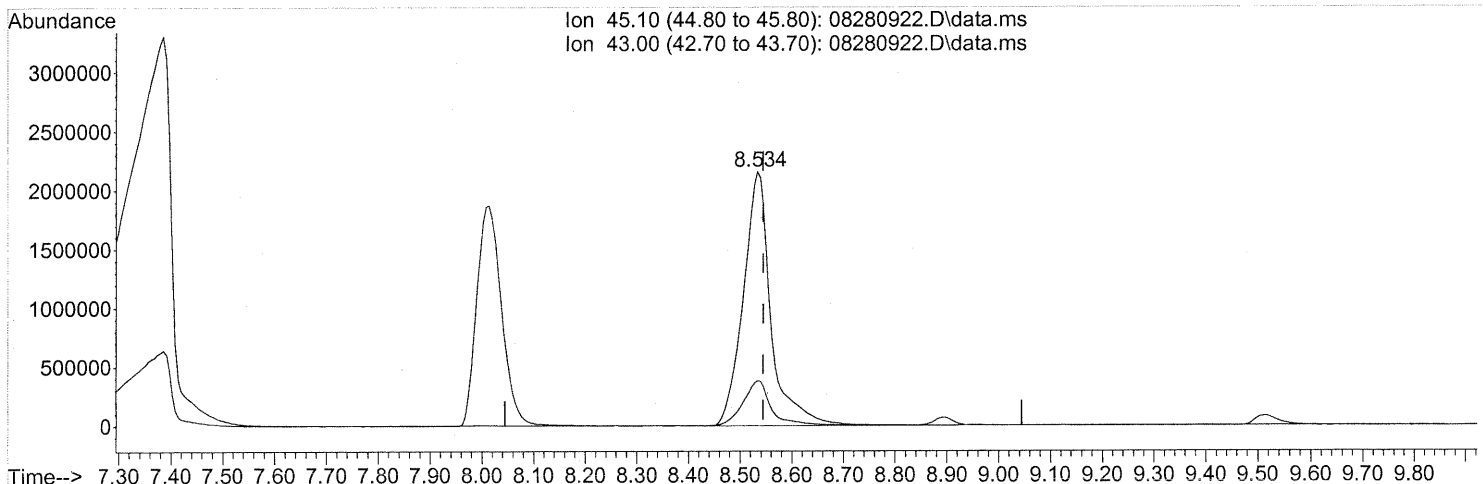
response 60078

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	65.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280922.D
Acq On : 28 Aug 2009 21:00
Operator : EM
Sample : P0902899-002 (1000ml)
Misc : Env. H & E 102516
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08280922.D\data.ms

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

8.534min (-0.011) 144.00ng

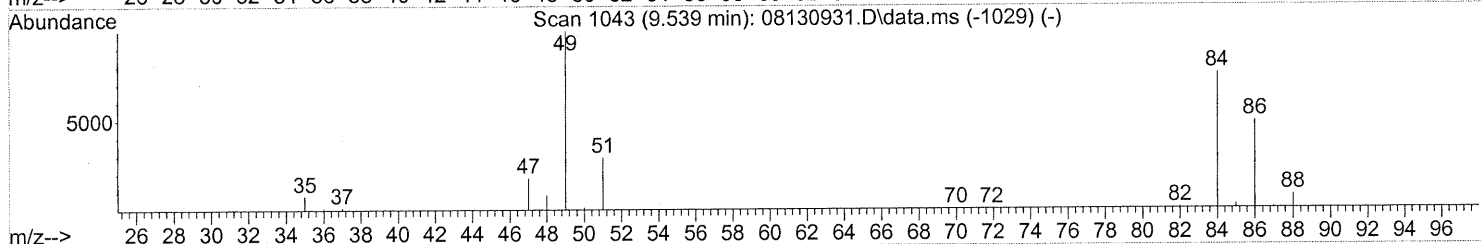
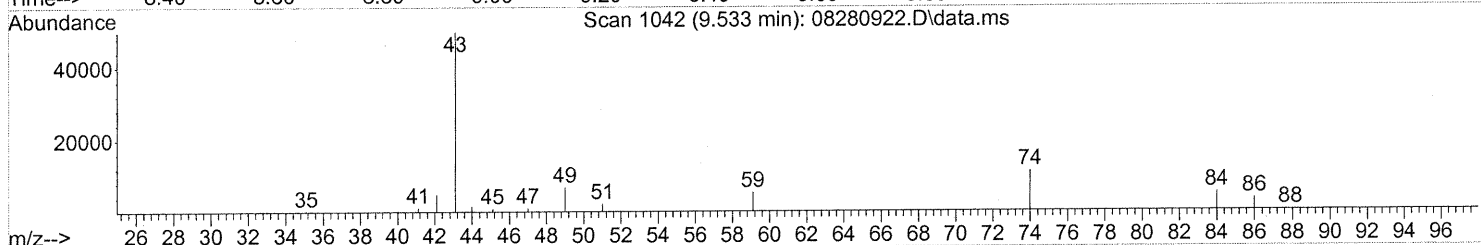
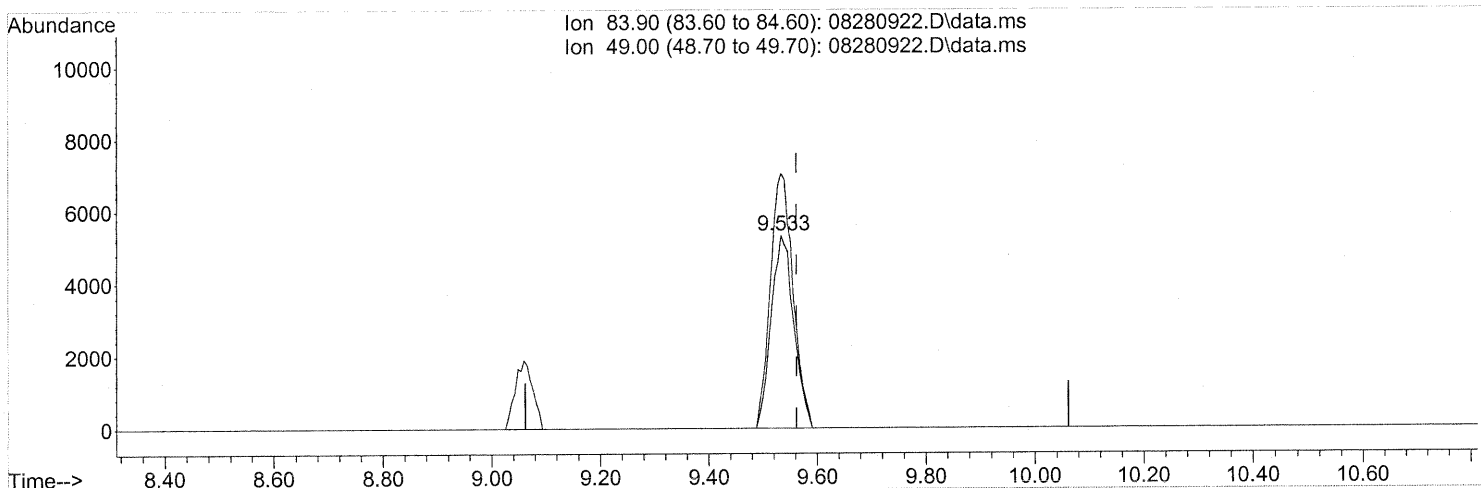
response 7977280

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(19) Methylene Chloride (T)

9.533min (-0.028) 0.60ng

response 15249

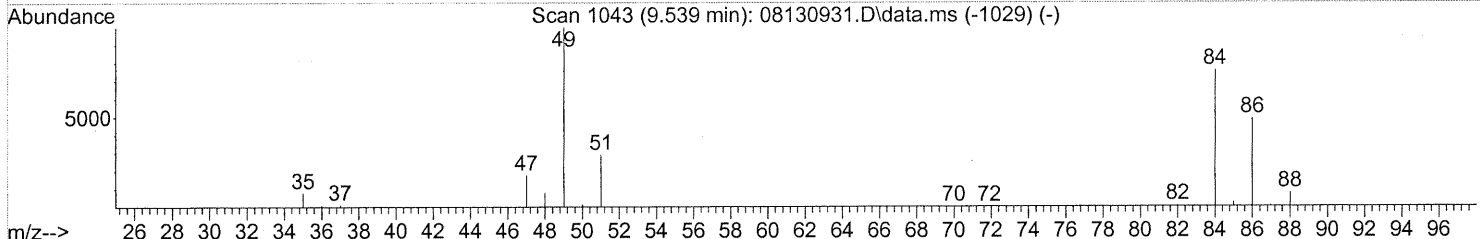
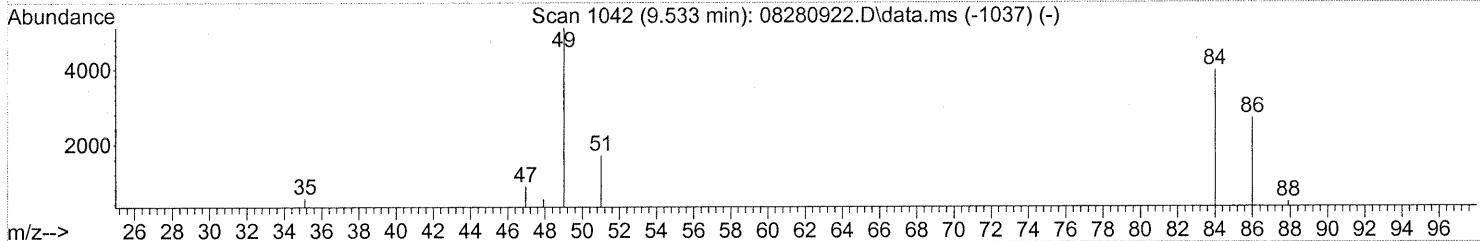
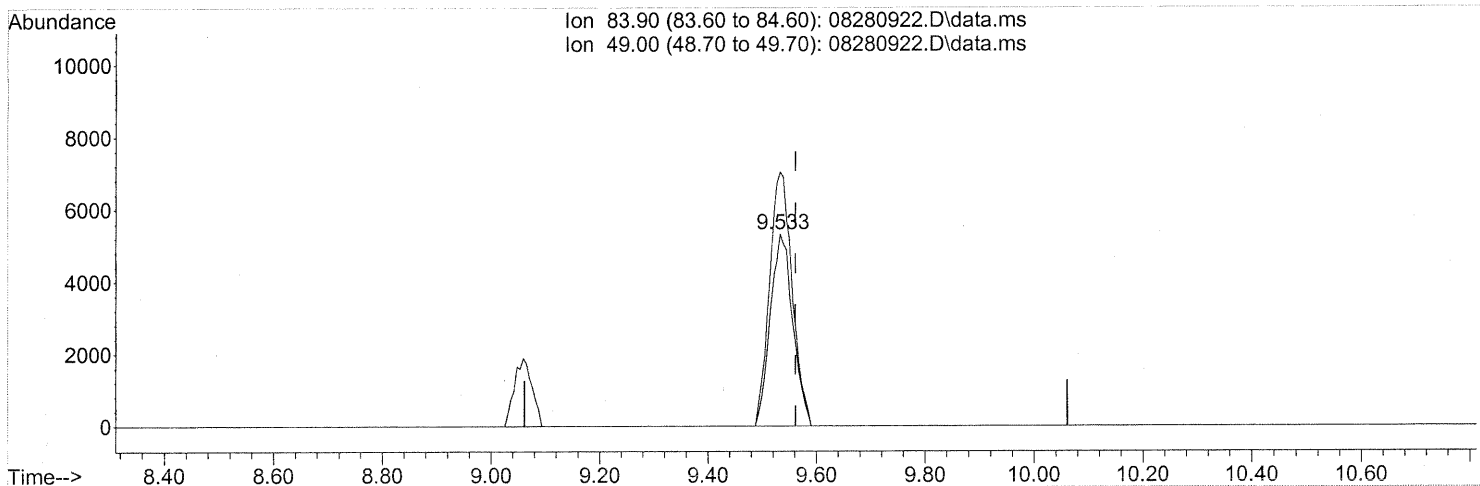
Ion	Exp%	Act%
83.90	100	100
49.00	118.80	133.67
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 10:41:28 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(19) Methylene Chloride (T)

9.533min (-0.028) 0.60ng

response 15249

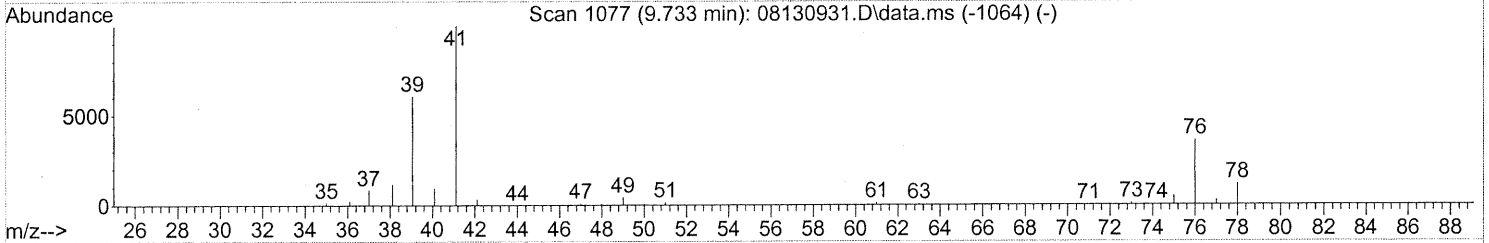
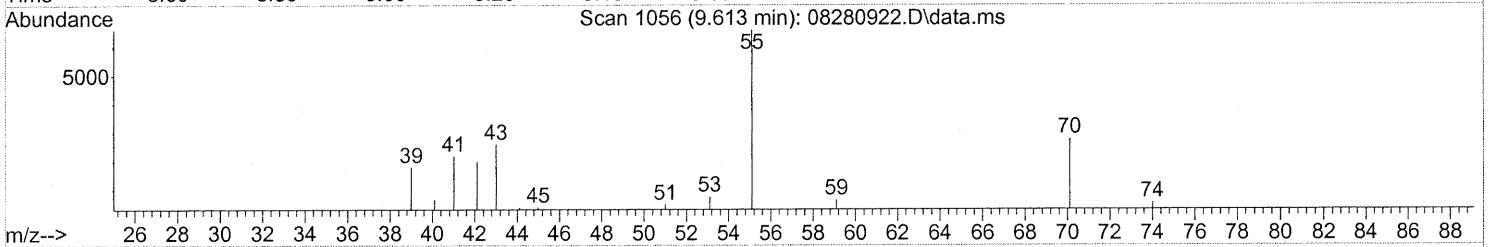
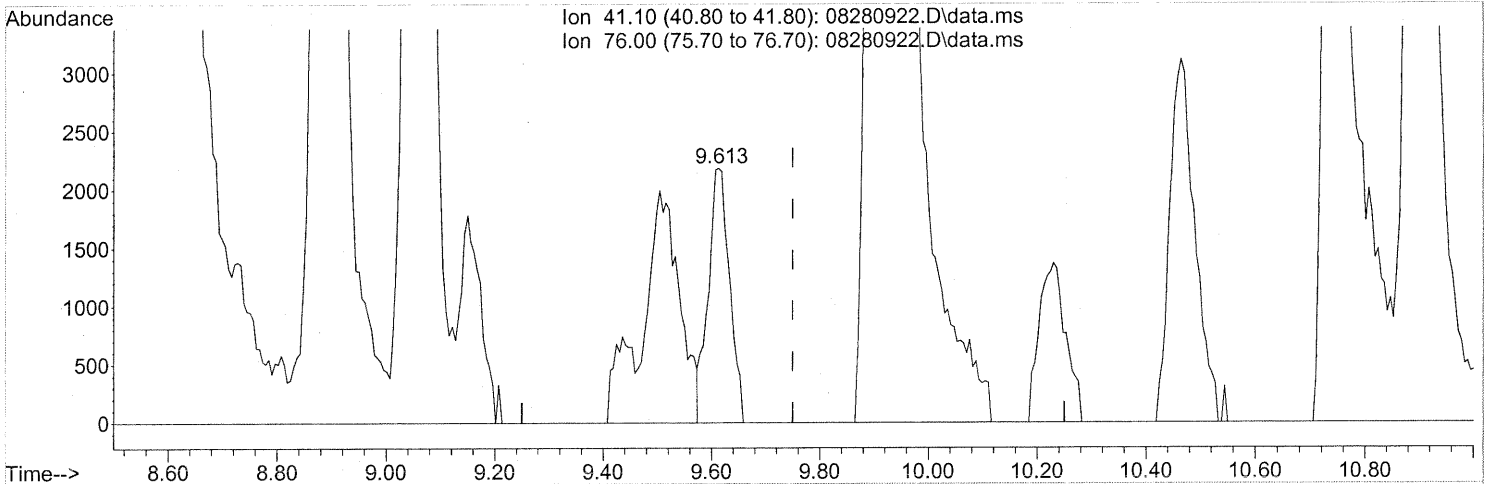
Ion	Exp%	Act%
83.90	100	100
49.00	118.80	133.67
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
Com 9/1/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

9.613min (-0.137) 0.18ng

response 5948

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

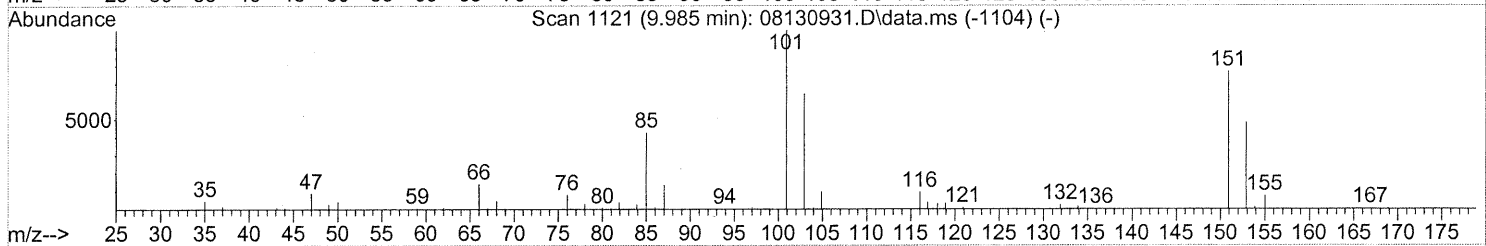
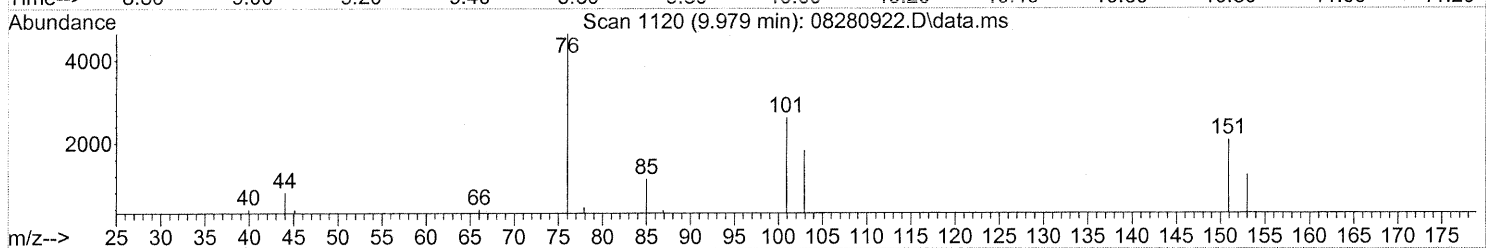
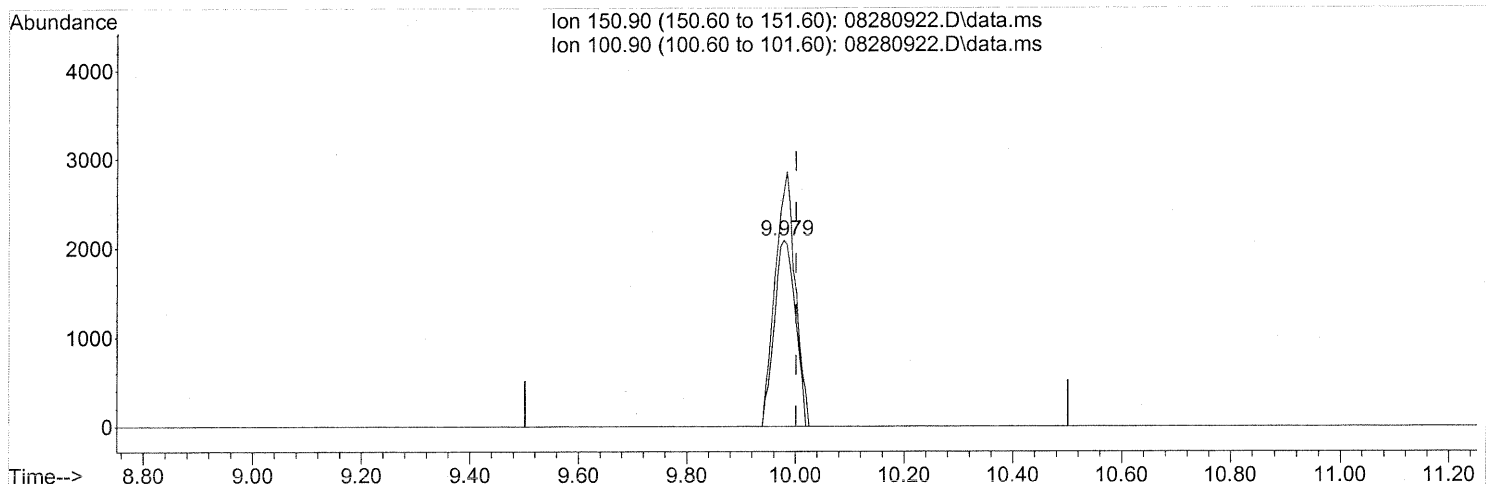
FP em 9/1/09

KE 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.979min (-0.023) 0.32ng

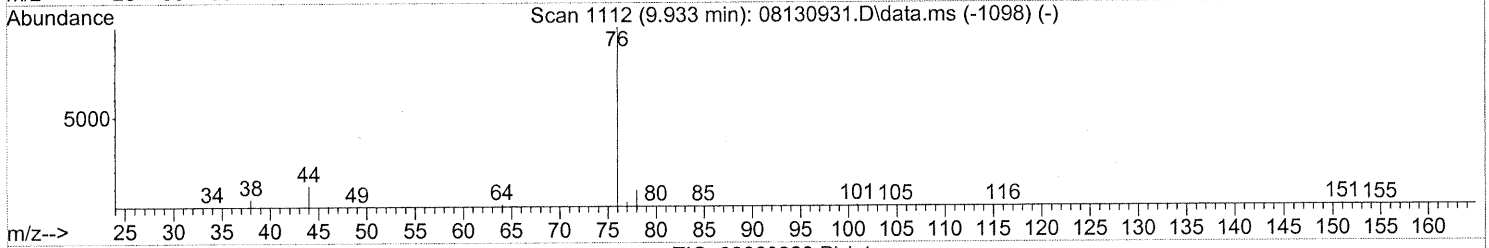
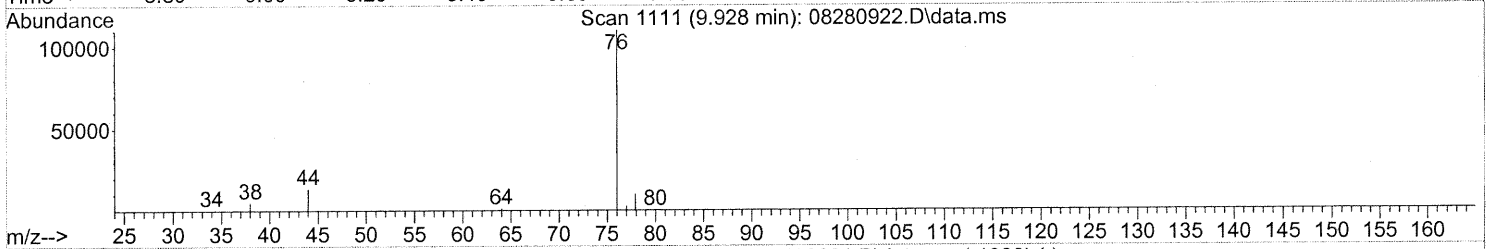
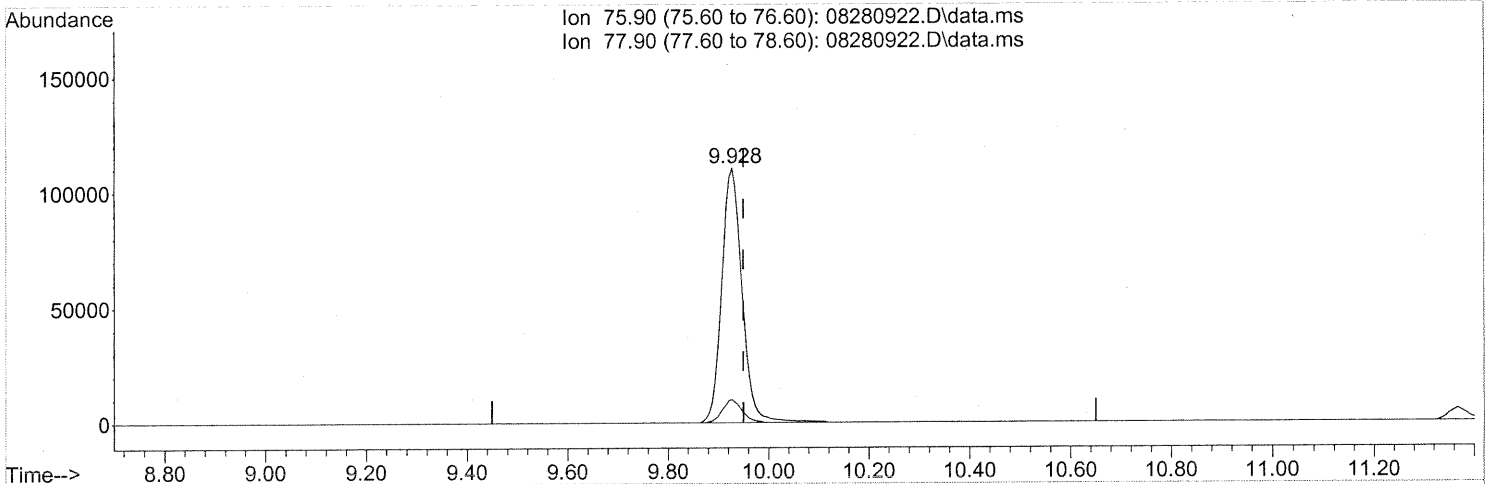
response 5620

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	131.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(22) Carbon Disulfide (T)

9.928min (-0.023) 3.49ng

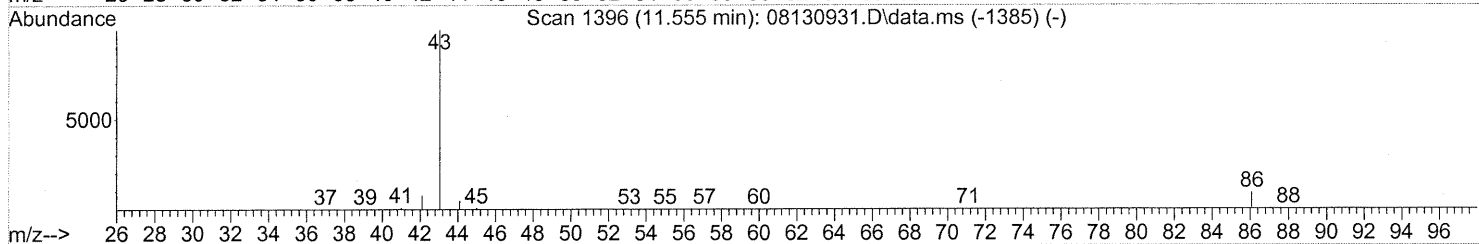
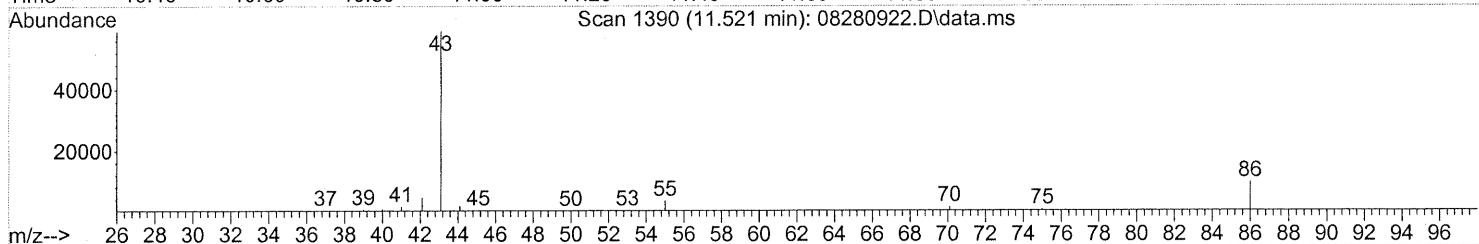
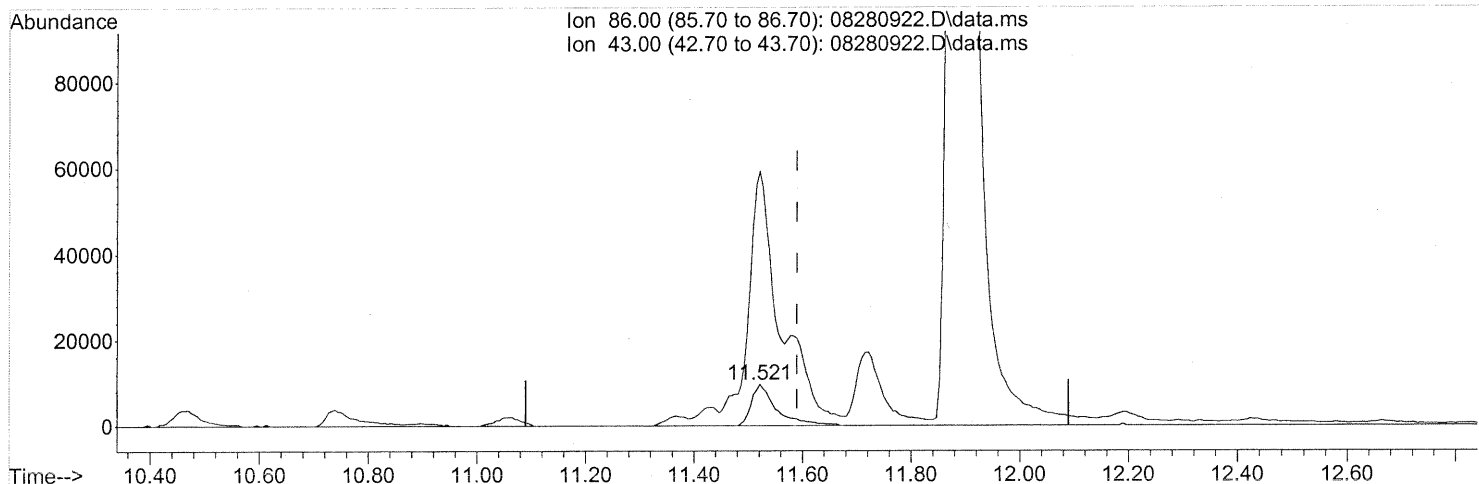
response 310543

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(26) Vinyl Acetate (T)

11.521min (-0.069) 6.91ng

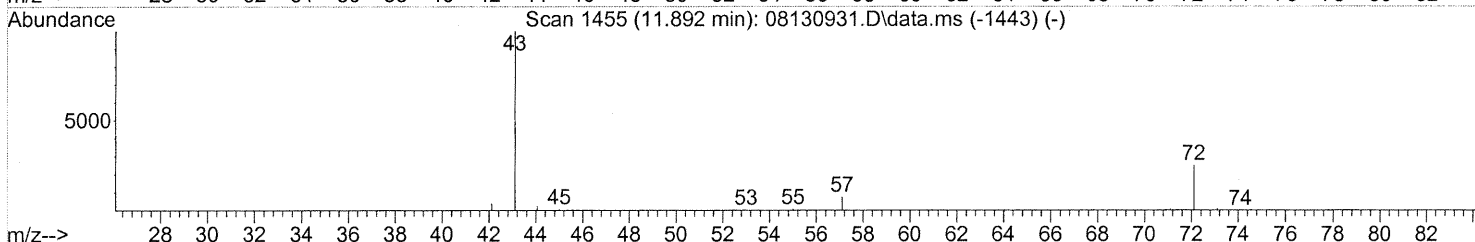
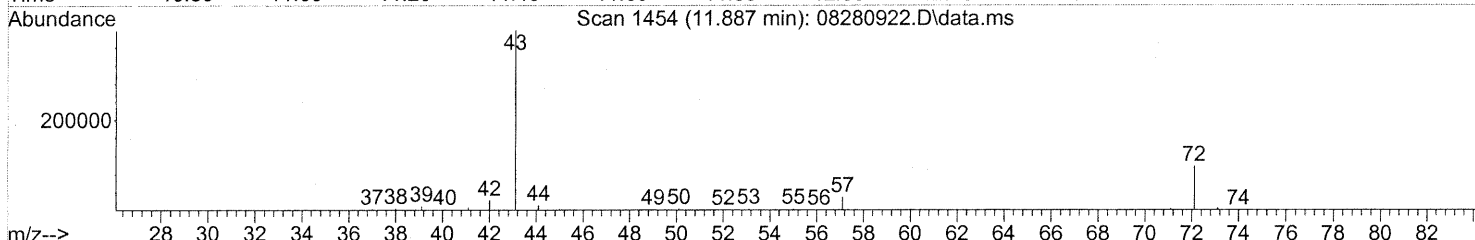
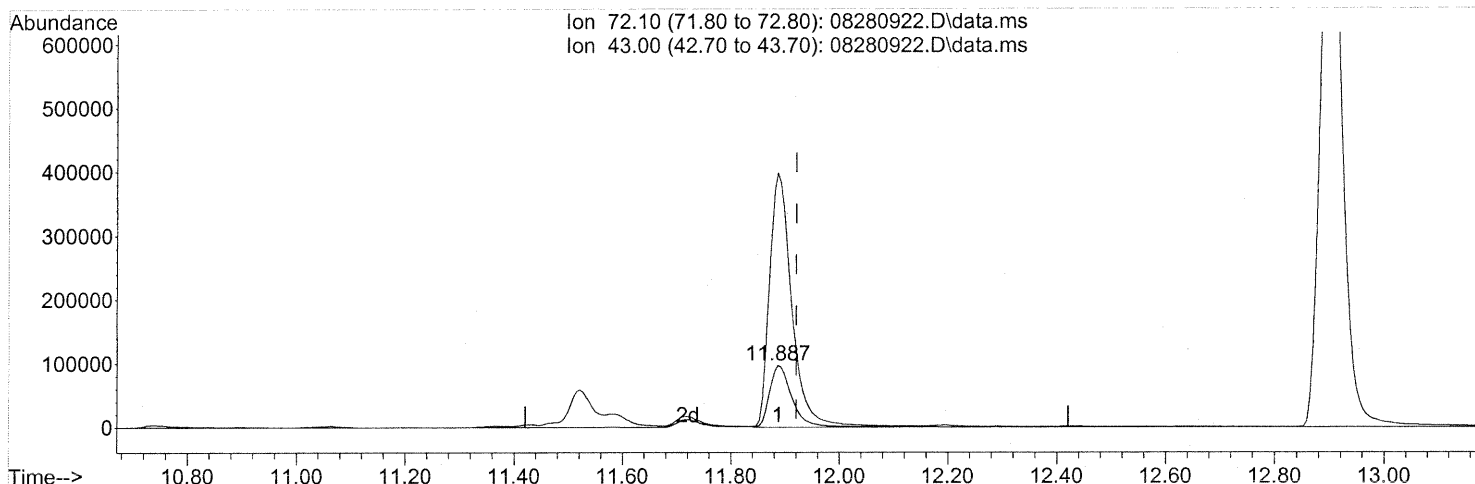
response 30258

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	767.85#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

11.887min (-0.034) 19.67ng

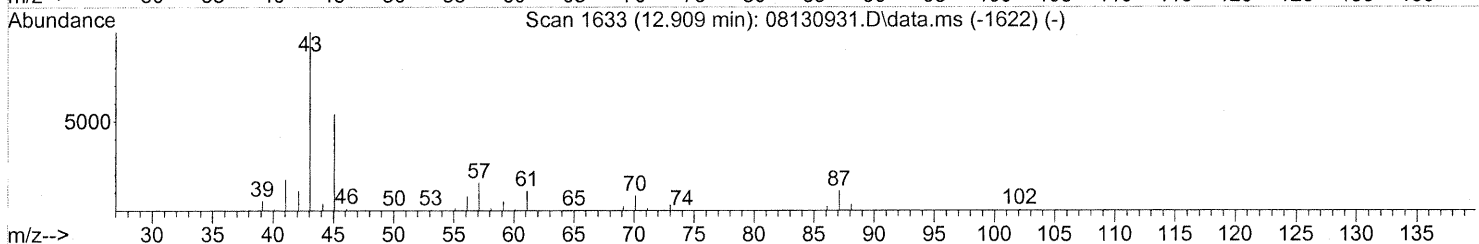
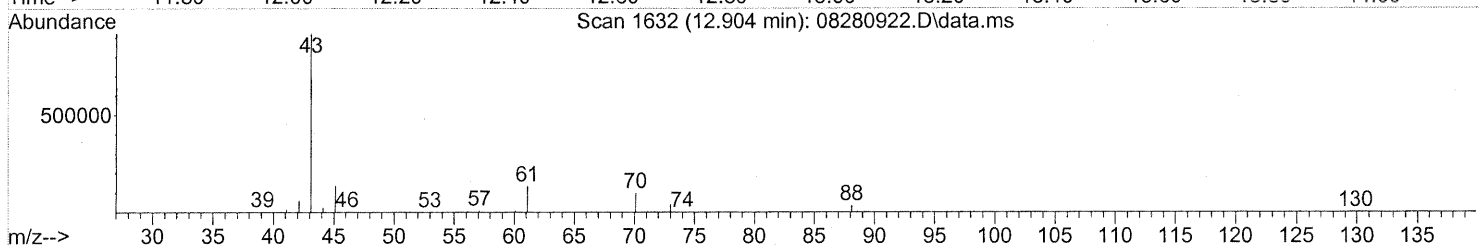
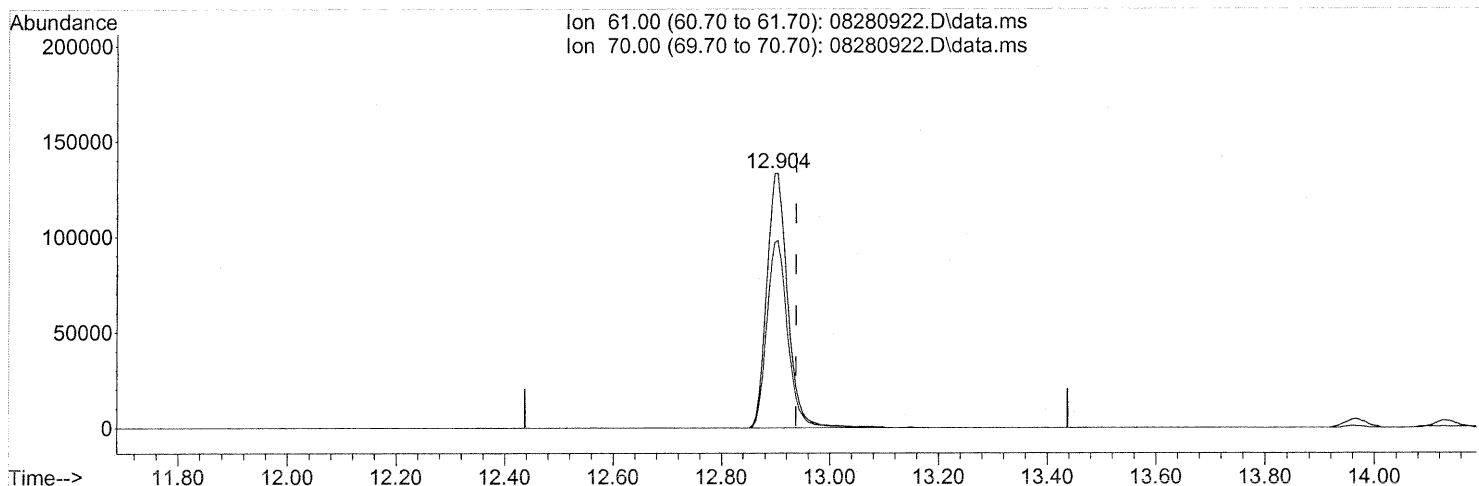
response 277360

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	405.43#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

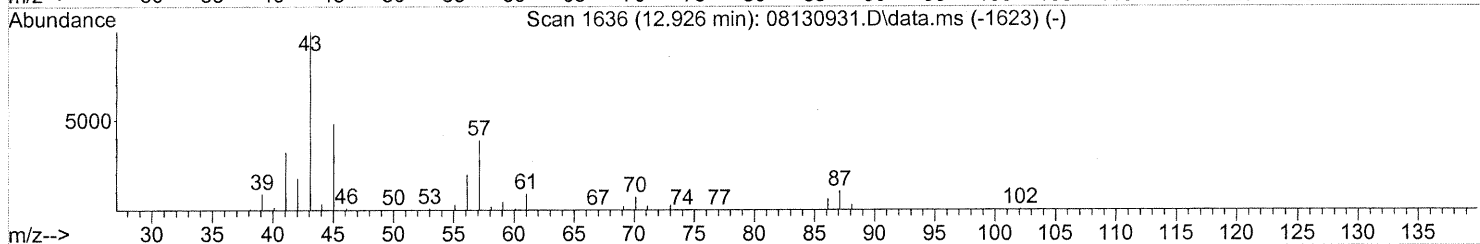
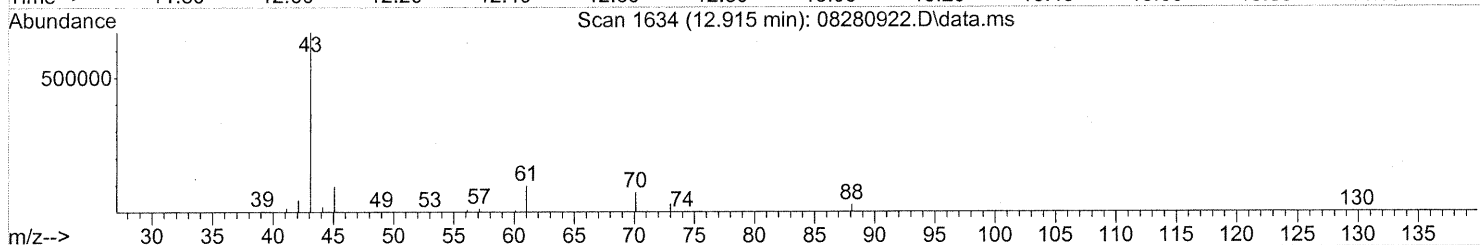
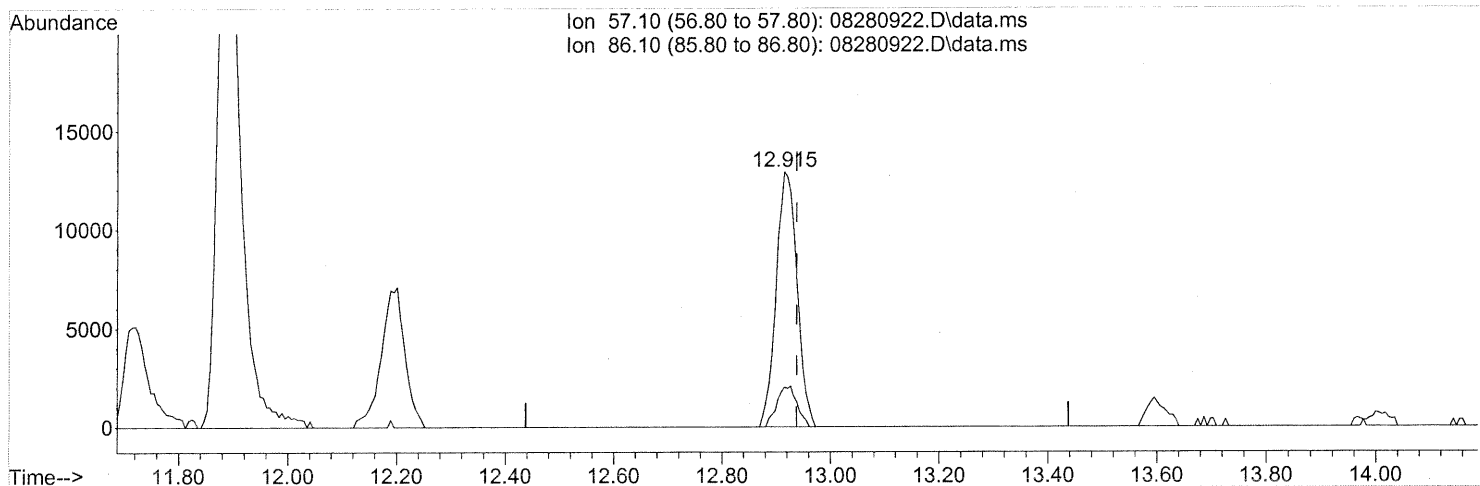
(30) Ethyl Acetate (T)
 12.904min (-0.034) 39.28ng
 response 359198

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	73.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(31) n-Hexane (T)

12.915min (-0.023) 0.77ng

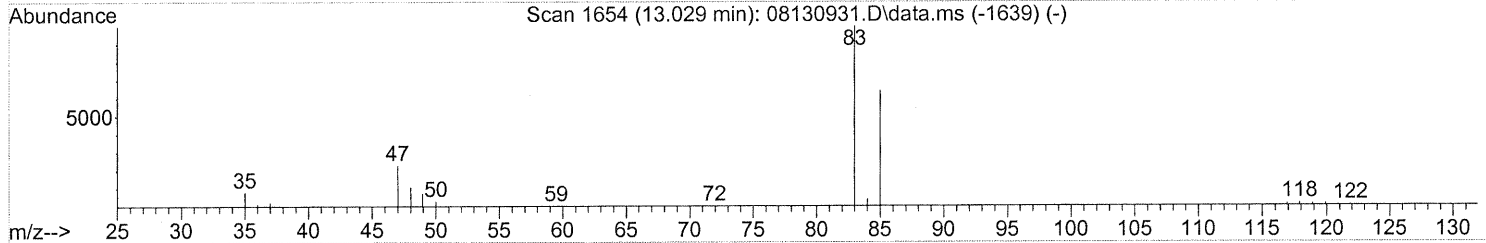
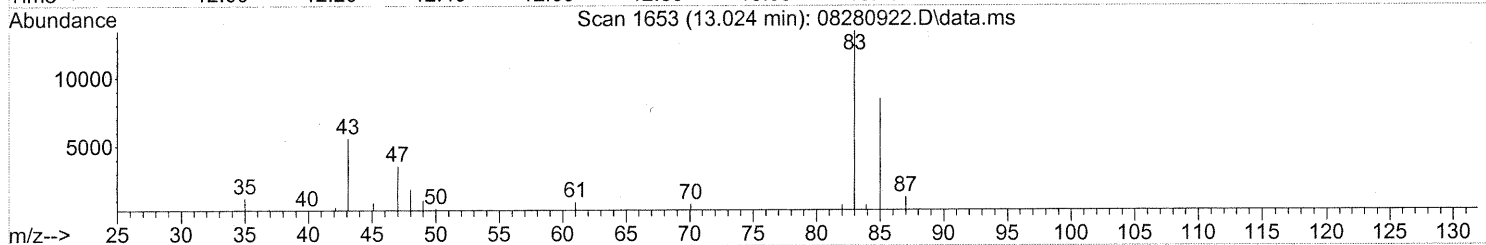
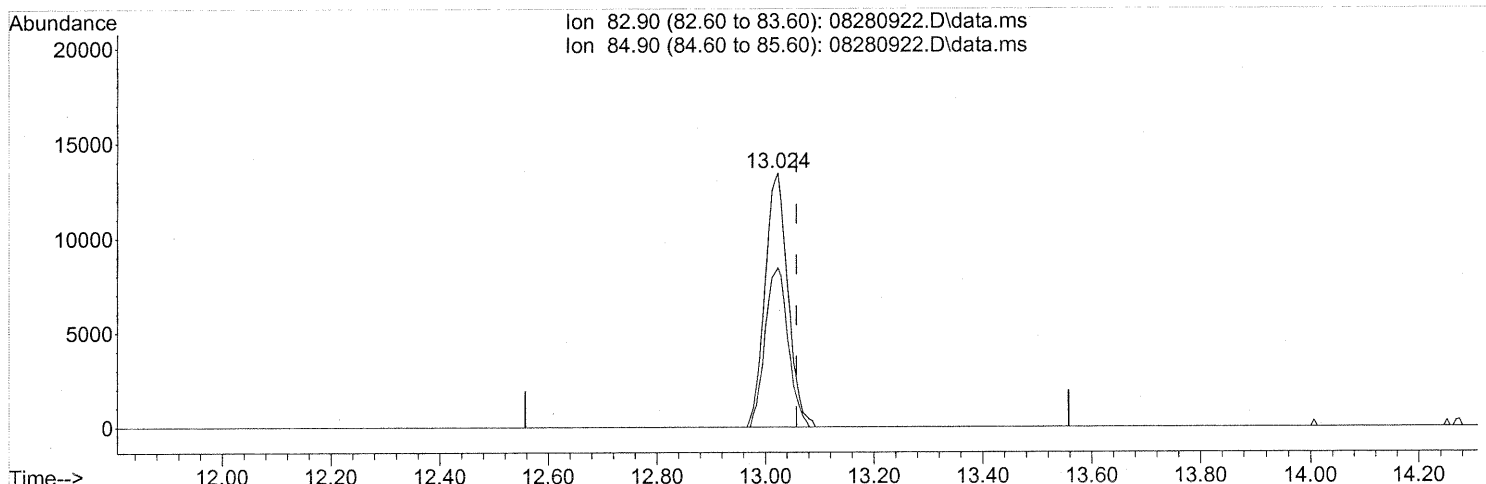
response 34353

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

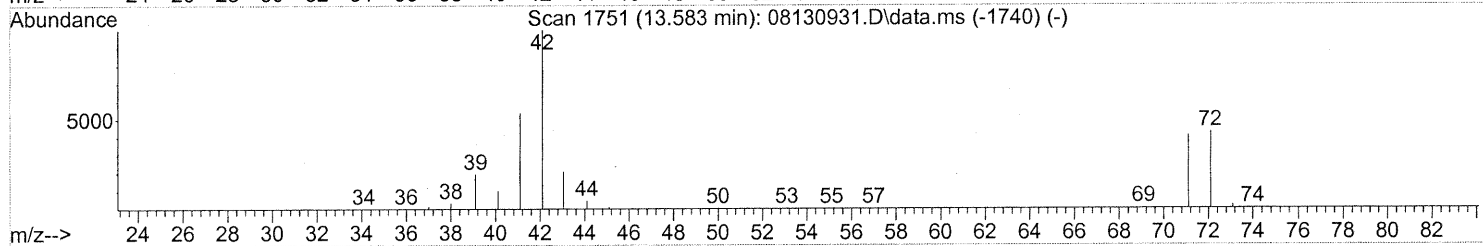
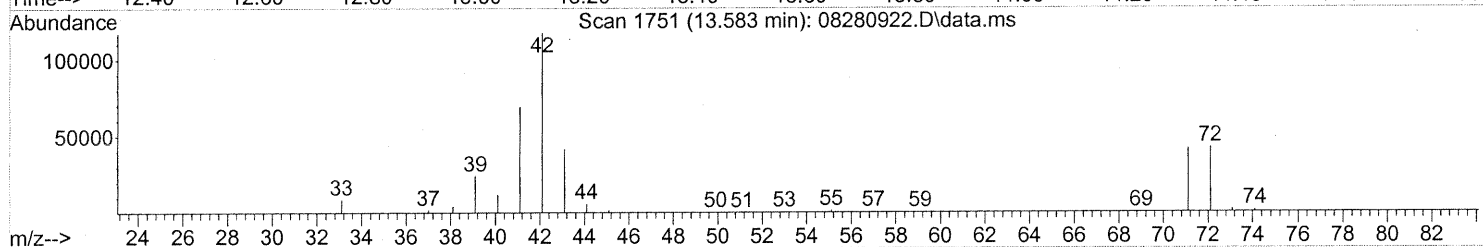
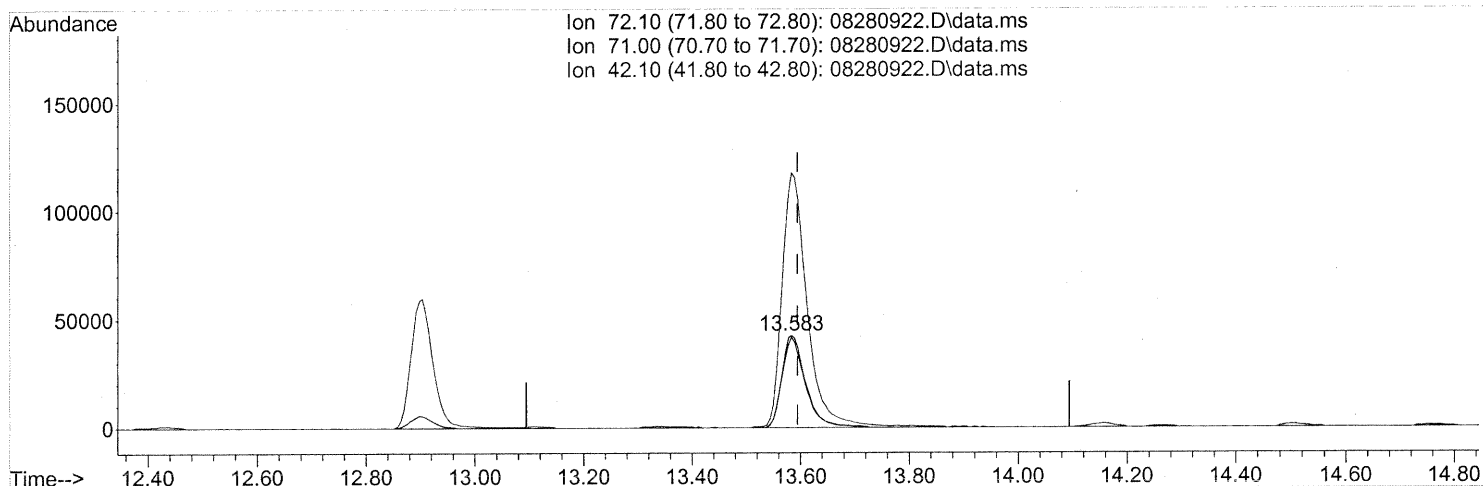
(32) Chloroform (T)
 13.024min (-0.034) 1.05ng
 response 39257

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.583min (-0.011) 8.81ng

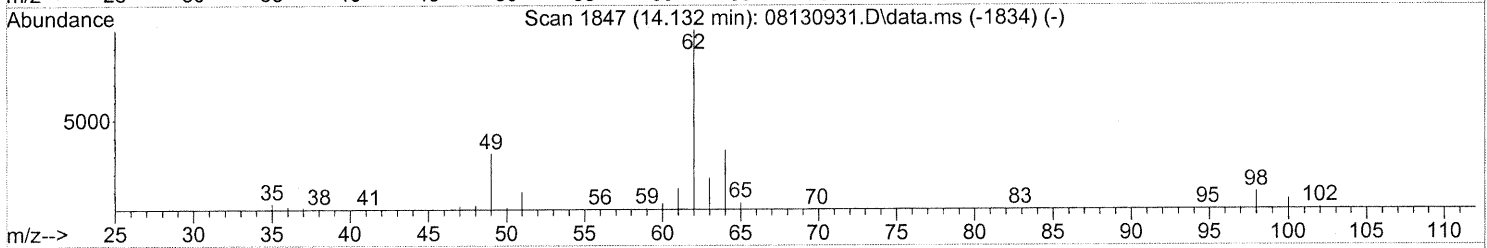
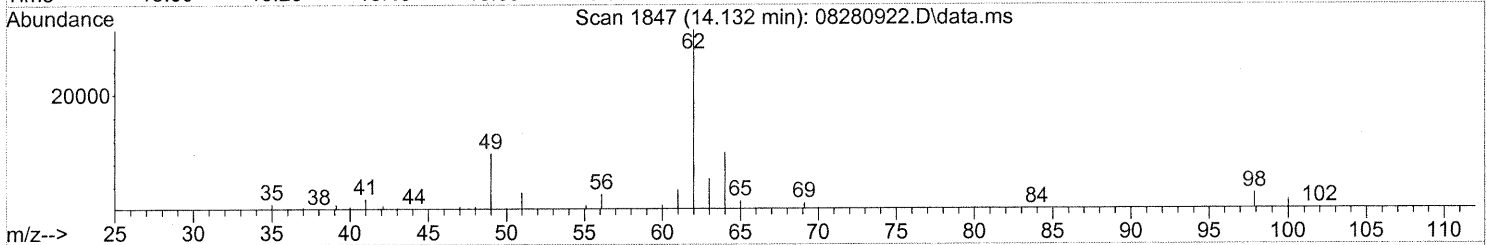
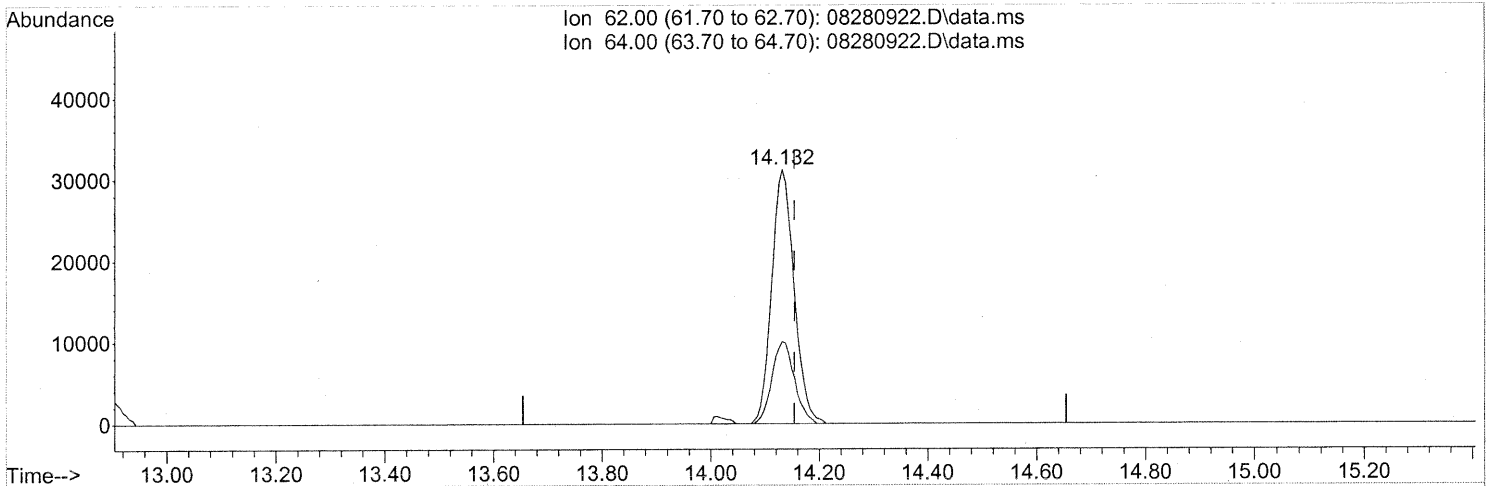
response 129218

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	94.50
42.10	206.50	292.36#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 3.12ng

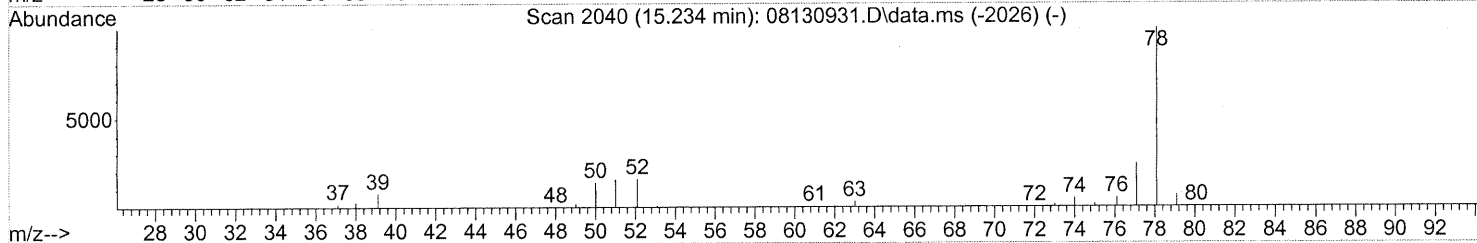
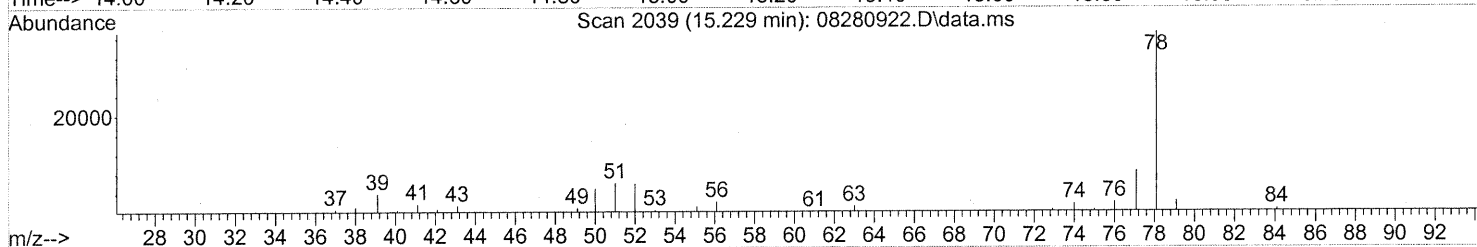
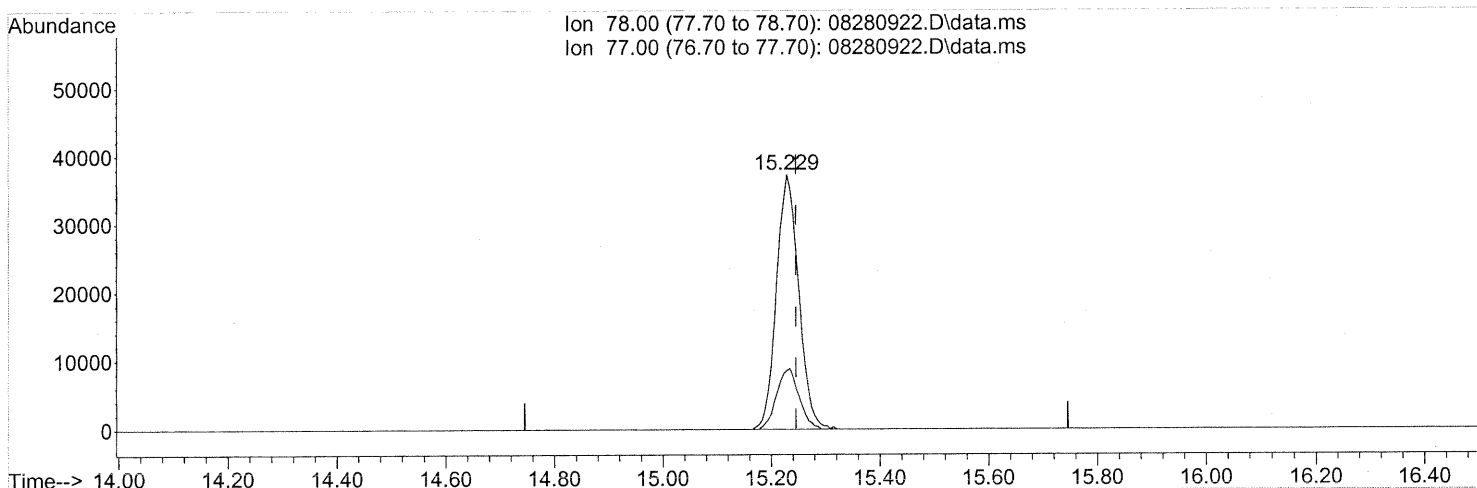
response 89114

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	32.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(41) Benzene (T)

15.229min (-0.017) 1.07ng

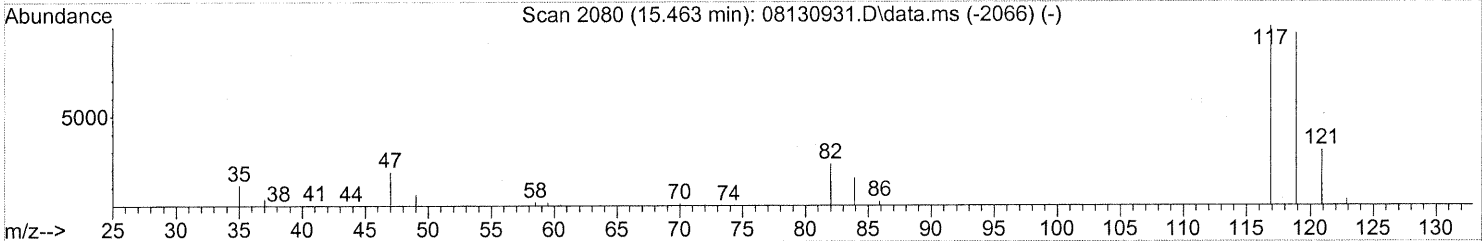
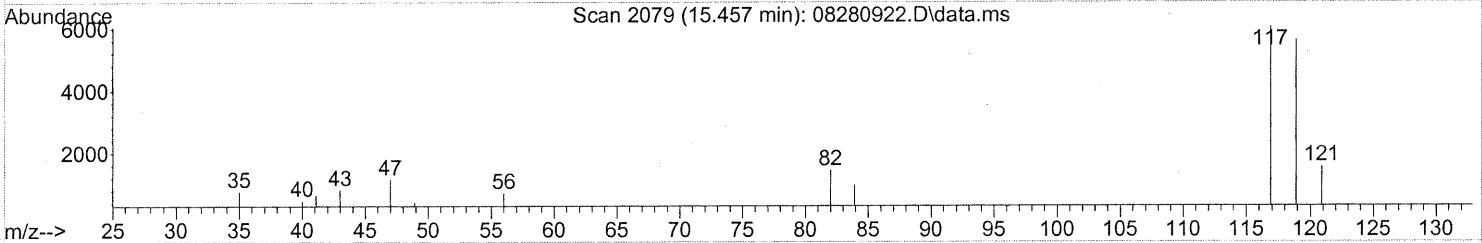
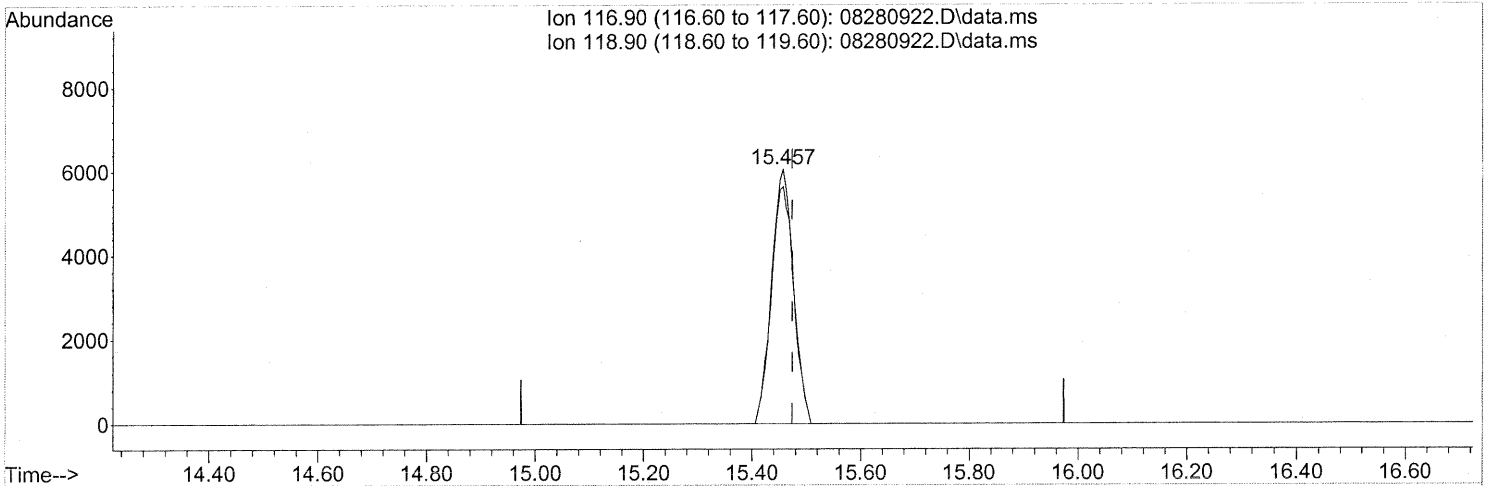
response 105349

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	23.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.61ng

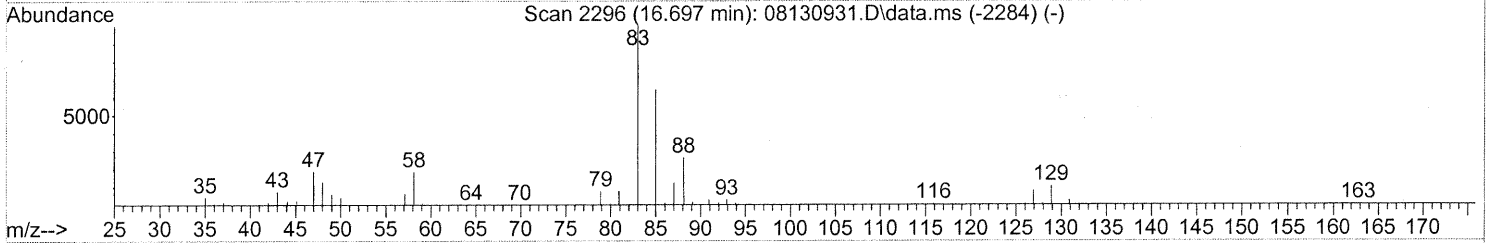
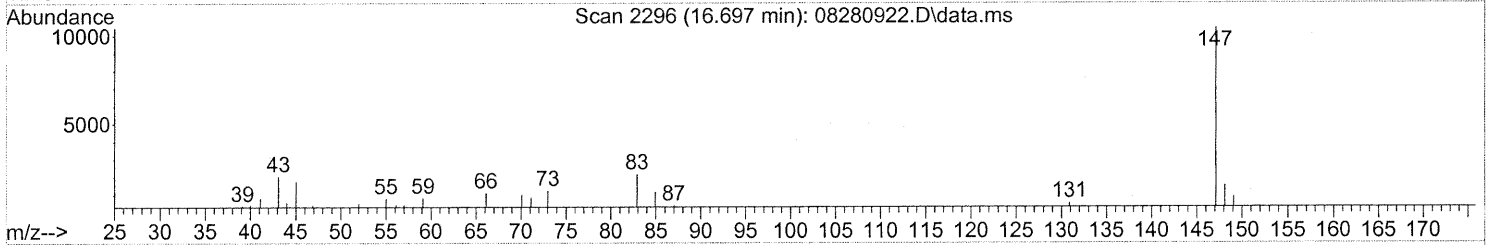
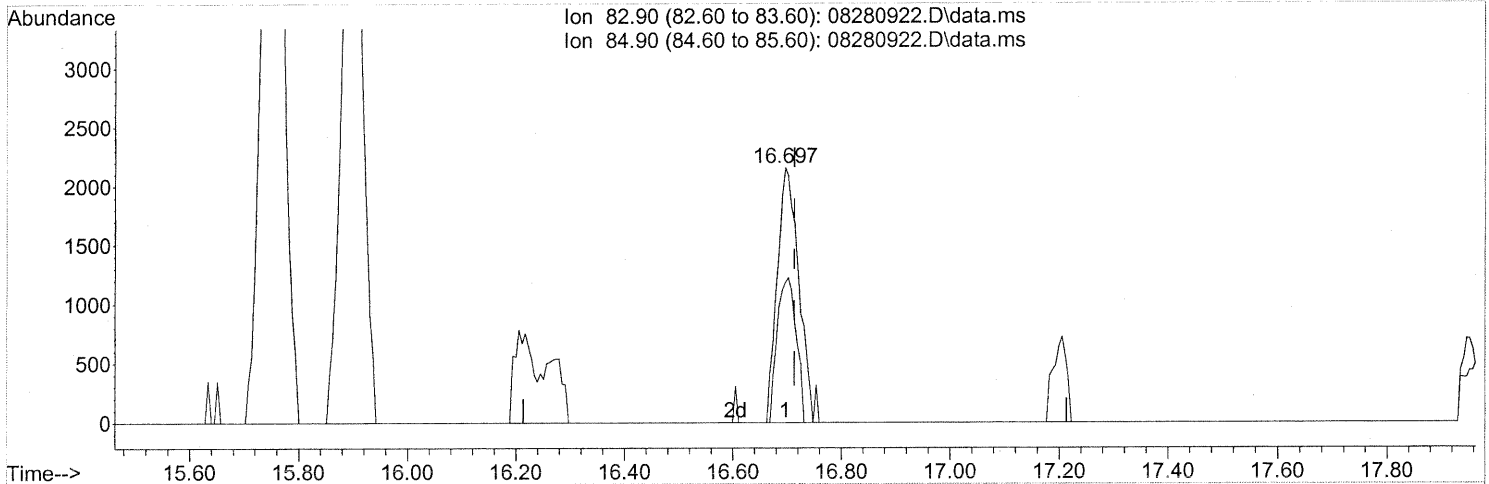
response 16769

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	96.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.697min (-0.017) 0.21ng

response 5997

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	49.12
0.00	0.00	0.00
0.00	0.00	0.00

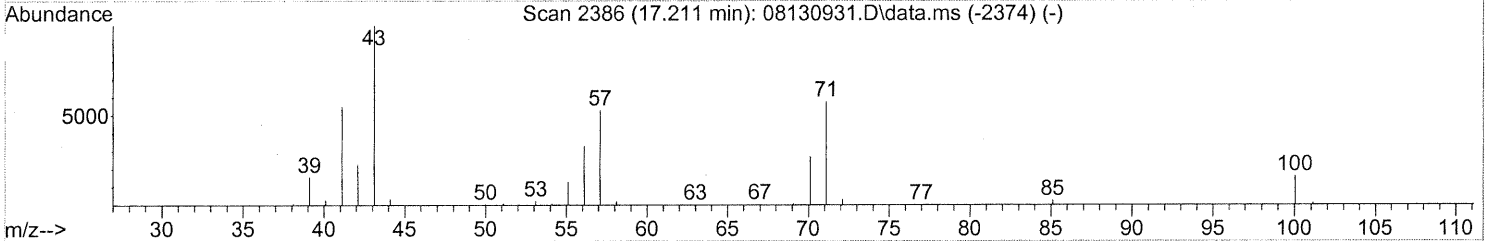
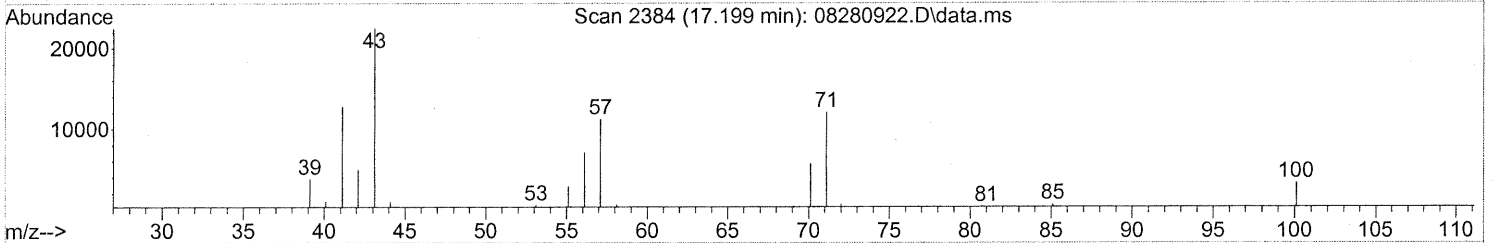
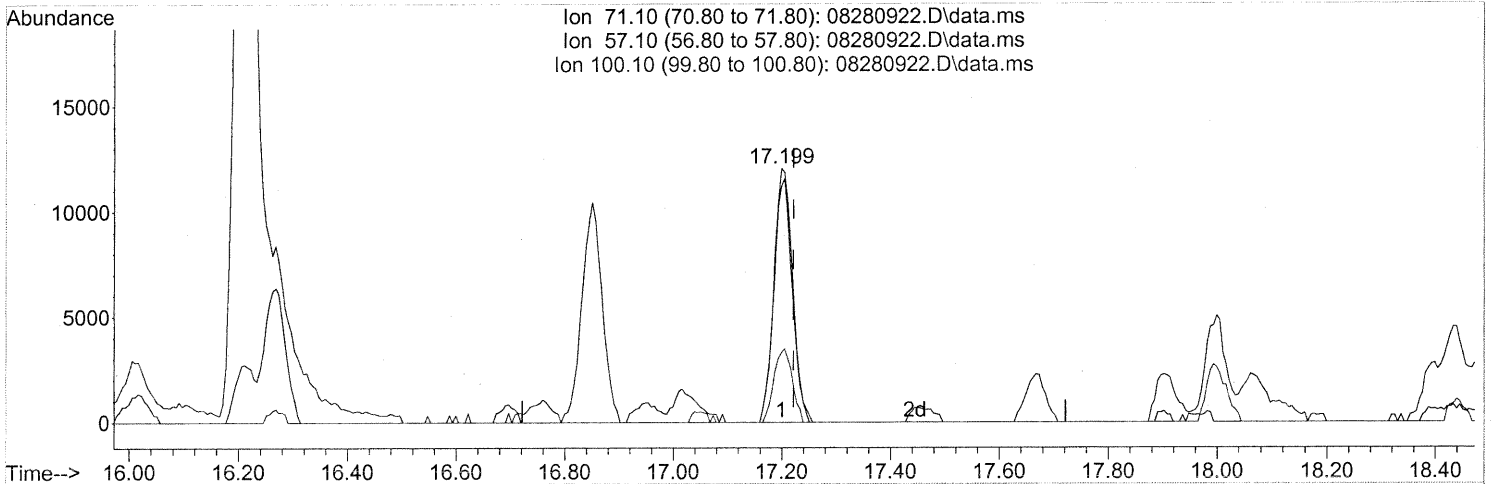
FP Em 9/1/09

key/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

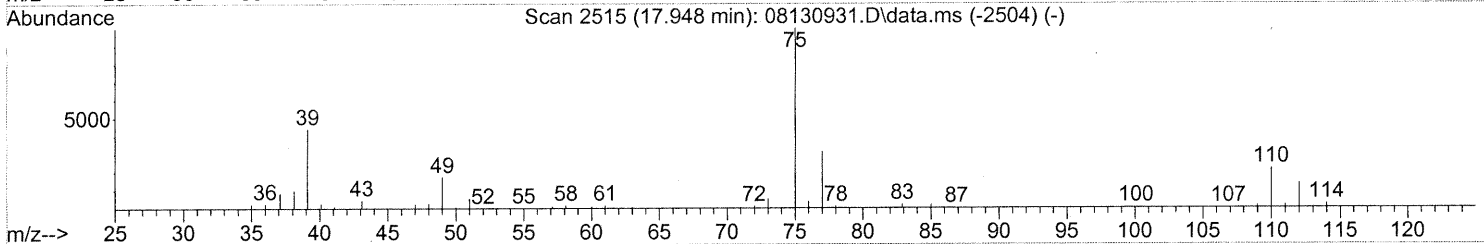
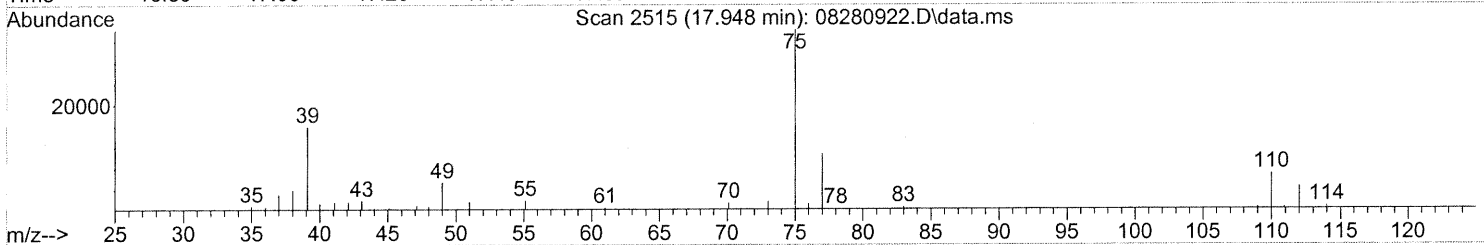
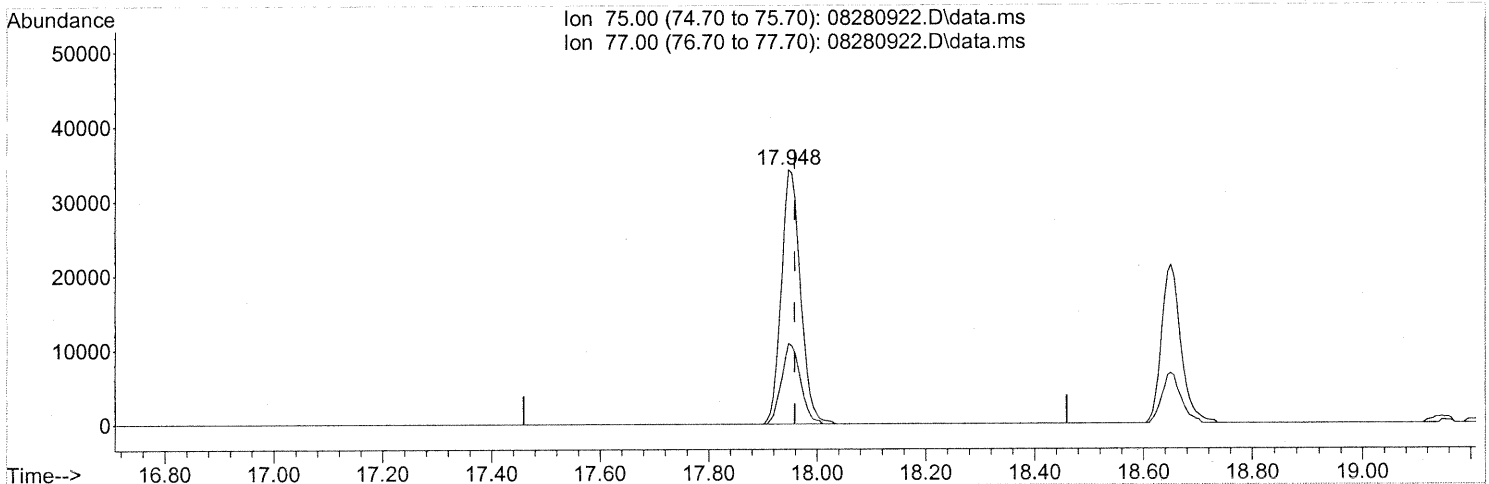
(51) n-Heptane (T)
 17.199min (-0.023) 1.09ng
 response 28563

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	94.86
100.10	30.70	28.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(52) cis-1,3-Dichloropropene (T)

17.948min (-0.011) 2.29ng

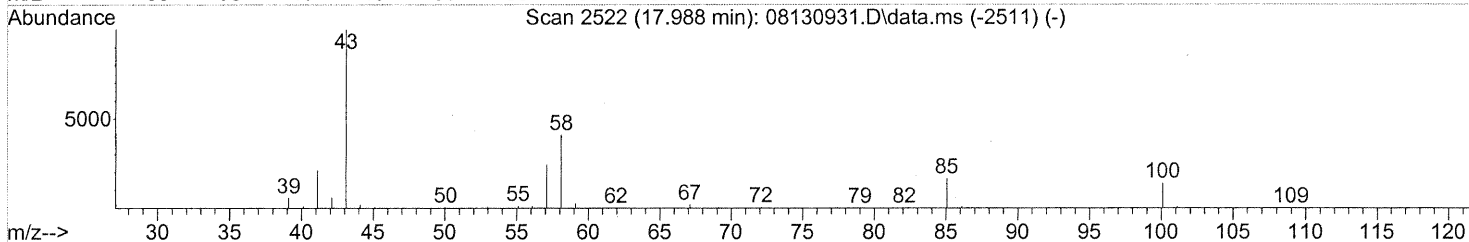
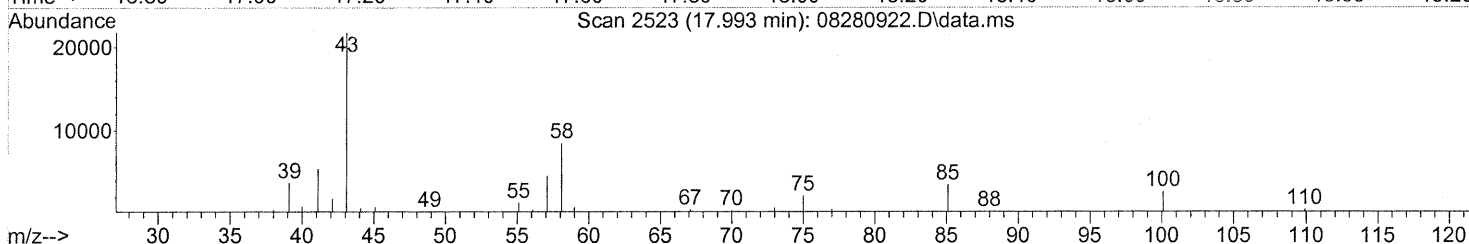
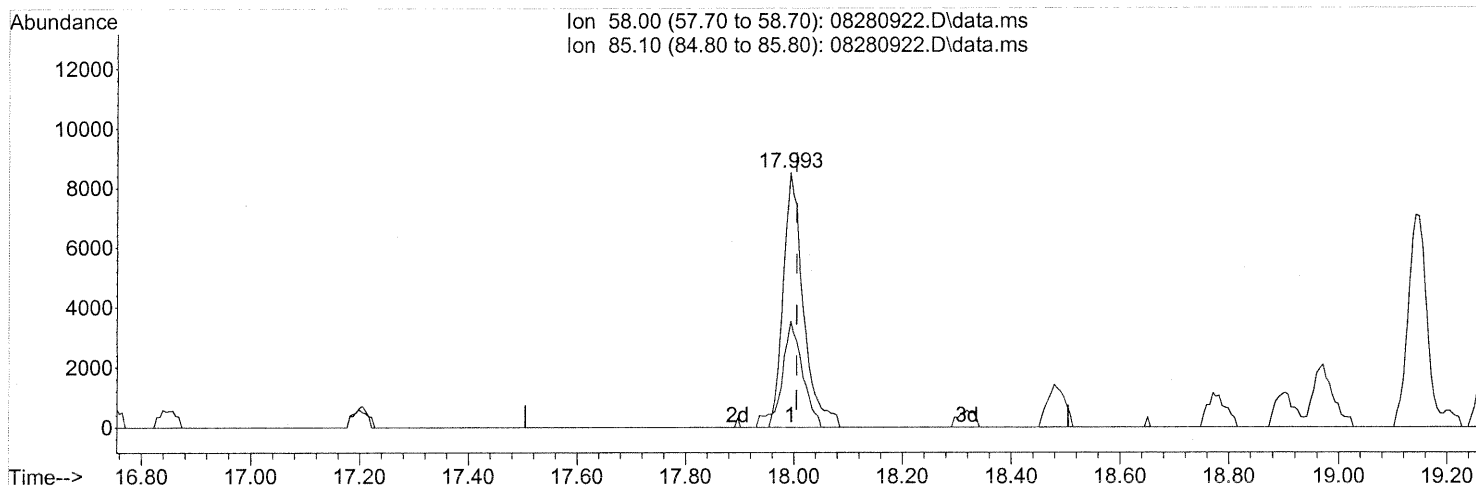
response 83647

Ion	Exp%	Act%
75.00	100	100
77.00	31.60	31.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

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

17.993min (-0.012) 1.03ng

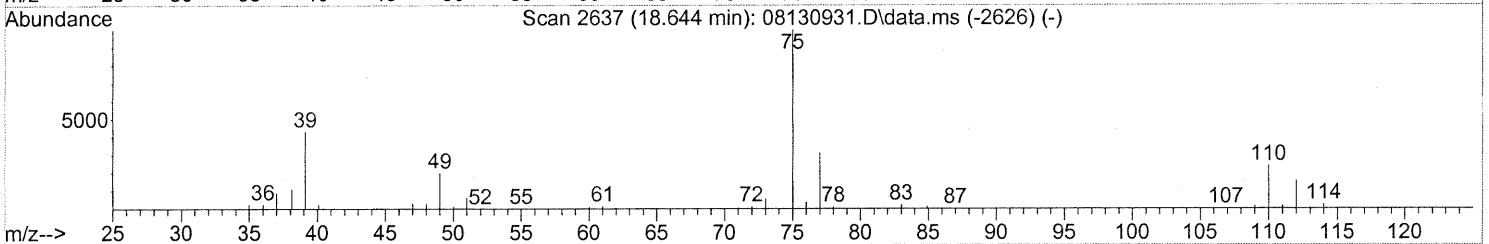
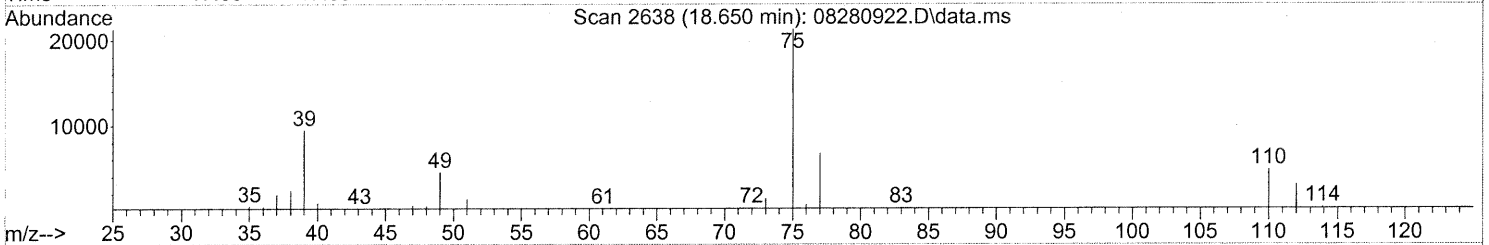
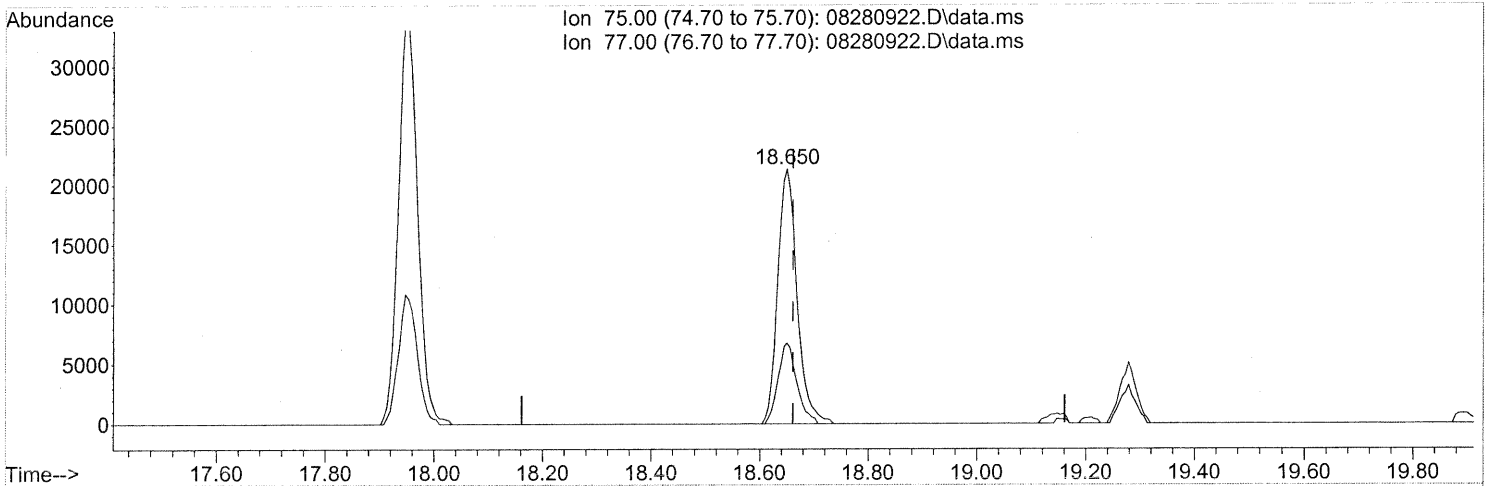
response 21939

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	42.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.650min (-0.011) 1.65ng

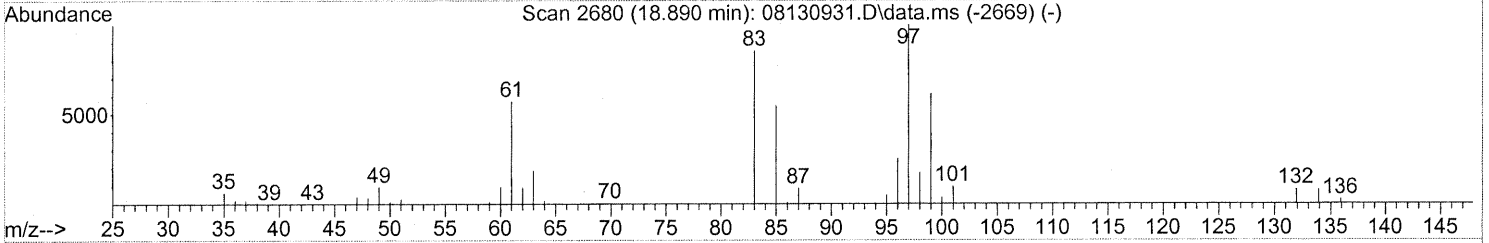
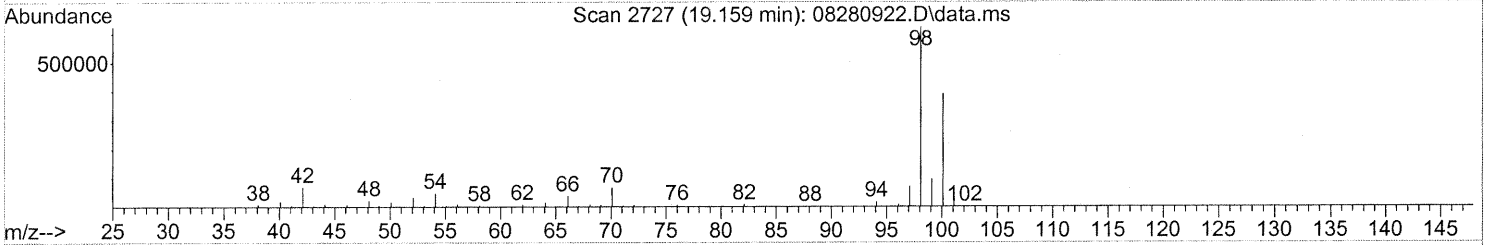
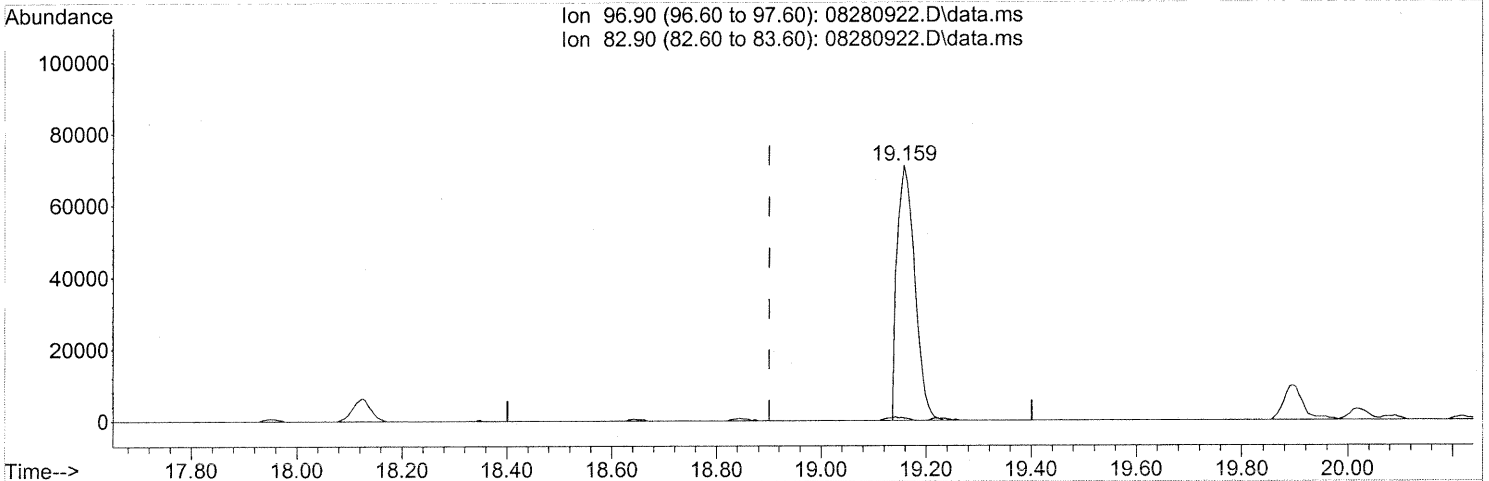
response 52526

Ion	Exp%	Act%
75.00	100	100
77.00	31.60	30.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

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

19.159min (+0.257) 7.86ng

response 165776

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.22#
0.00	0.00	0.00
0.00	0.00	0.00

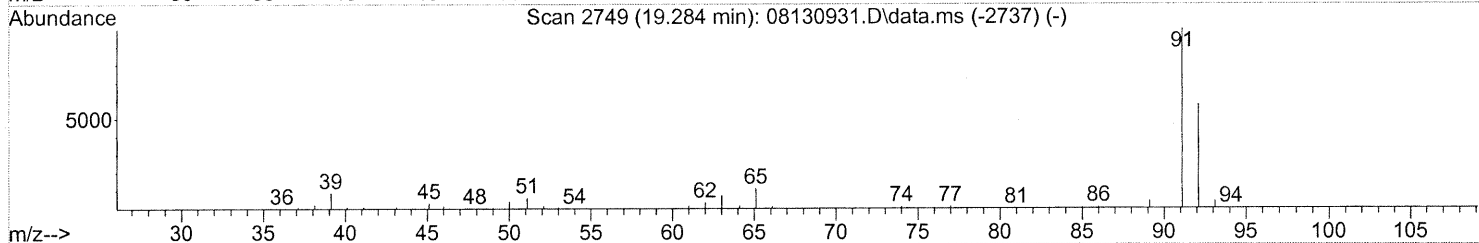
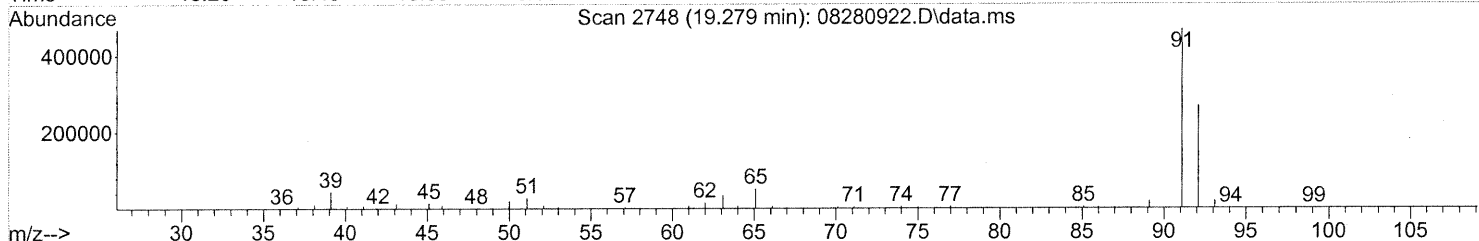
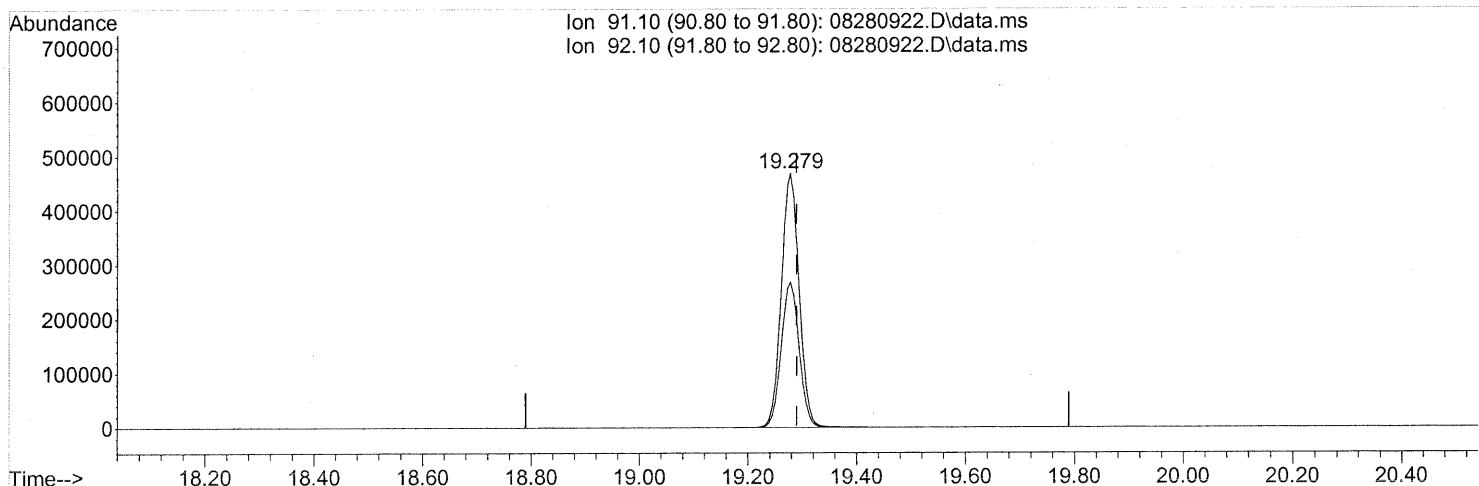
FP em 9/1/09

ke 9/1/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

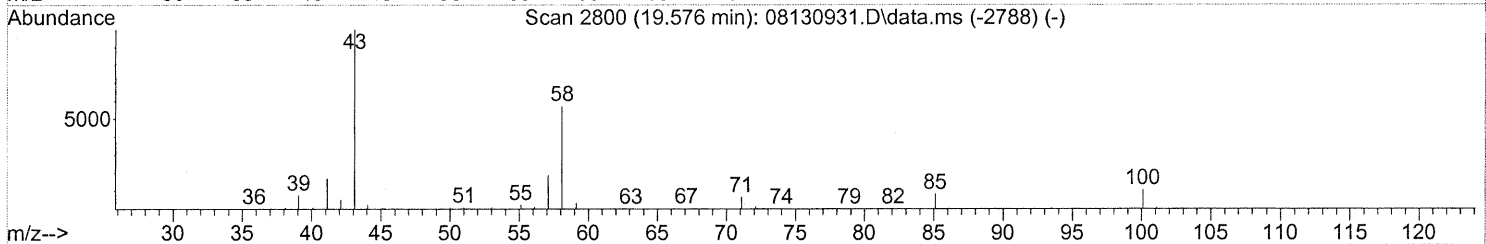
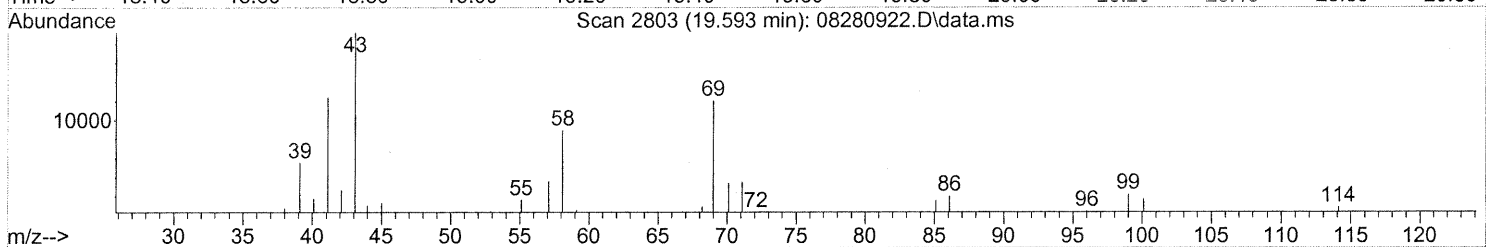
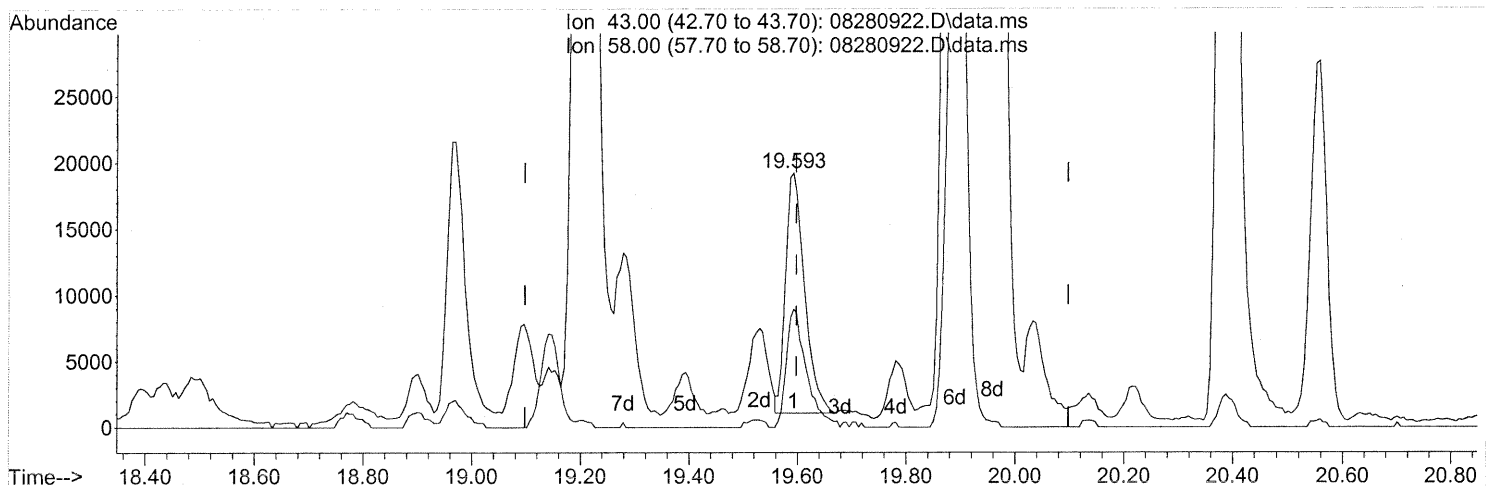
(58) Toluene (T)
 19.279min (-0.011) 10.71ng
 response 1064381

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

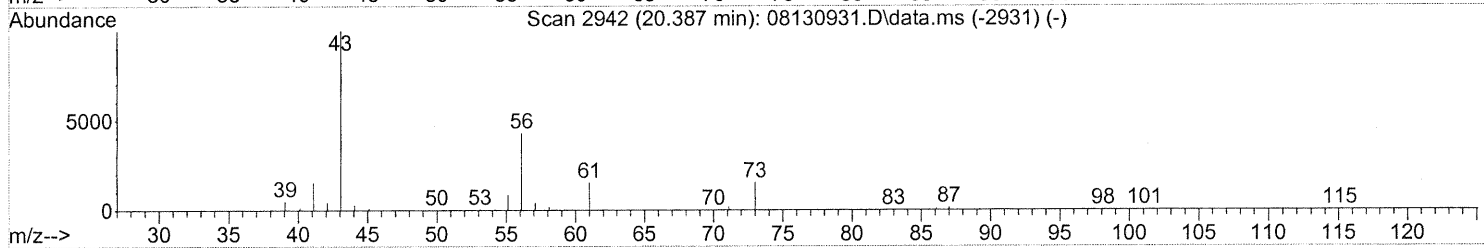
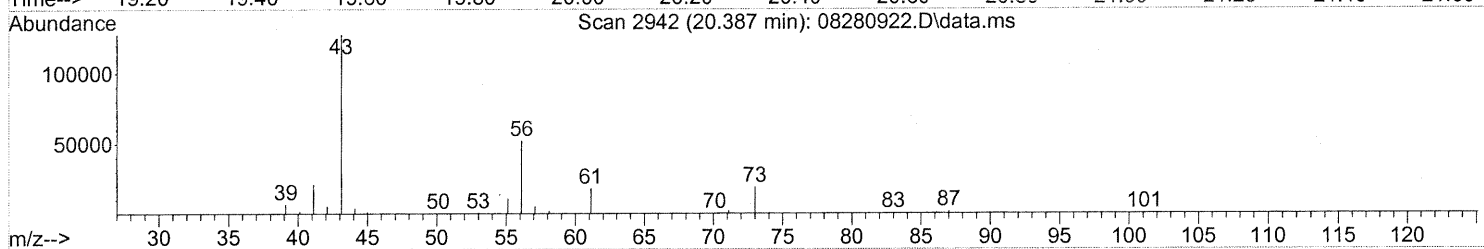
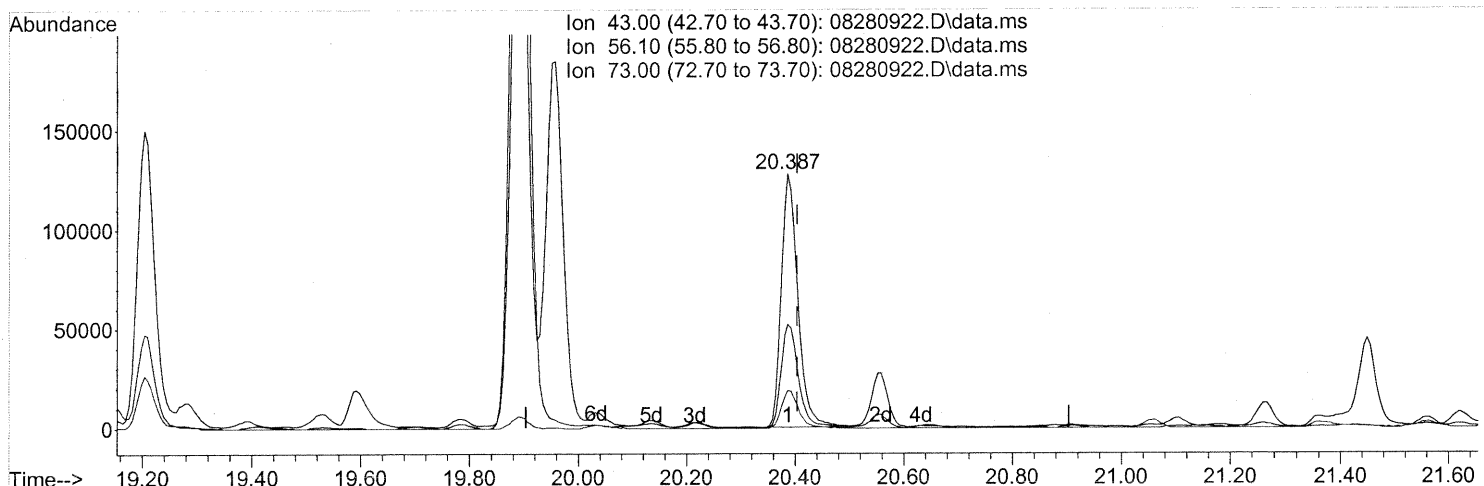
(59) 2-Hexanone (T)
 19.593min (-0.005) 0.85ng
 response 44134

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	51.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(62) n-Butyl Acetate (T)

20.387min (-0.017) 4.79ng

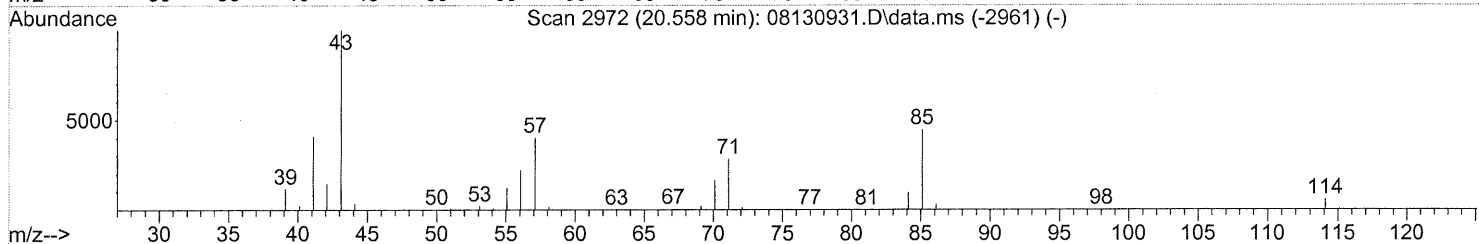
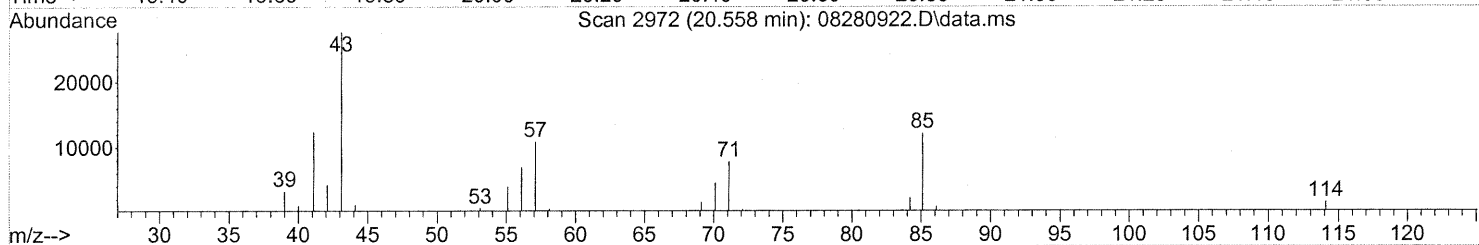
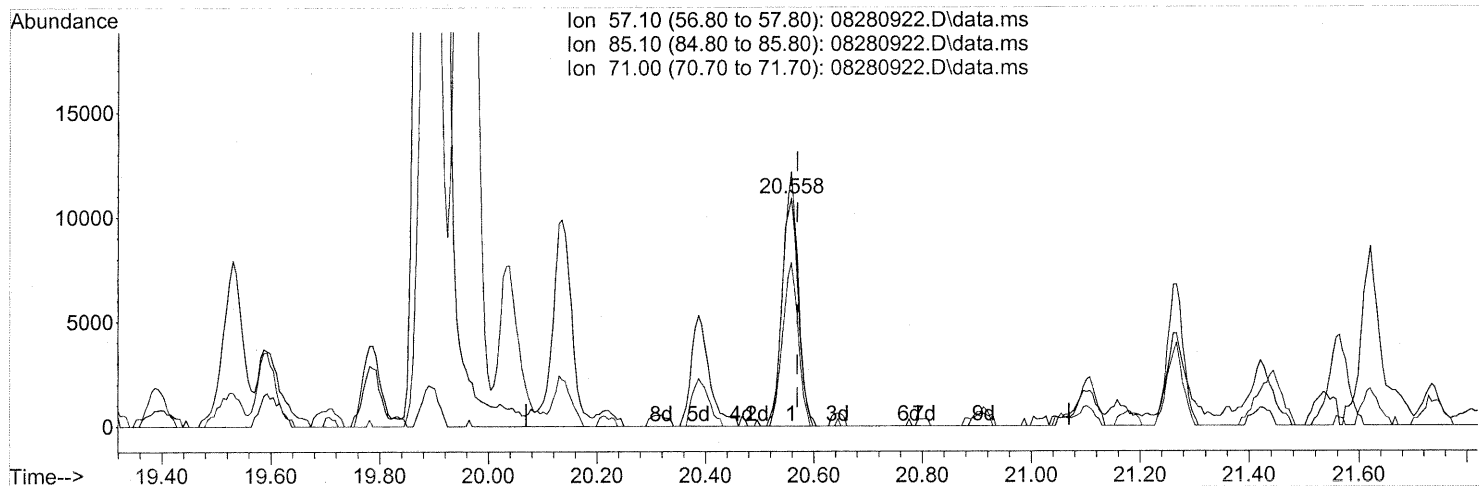
response 269995

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	43.56
73.00	16.90	15.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

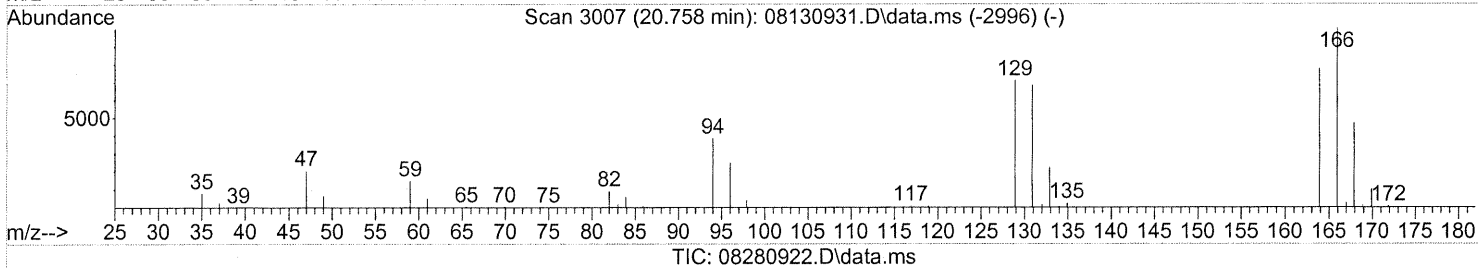
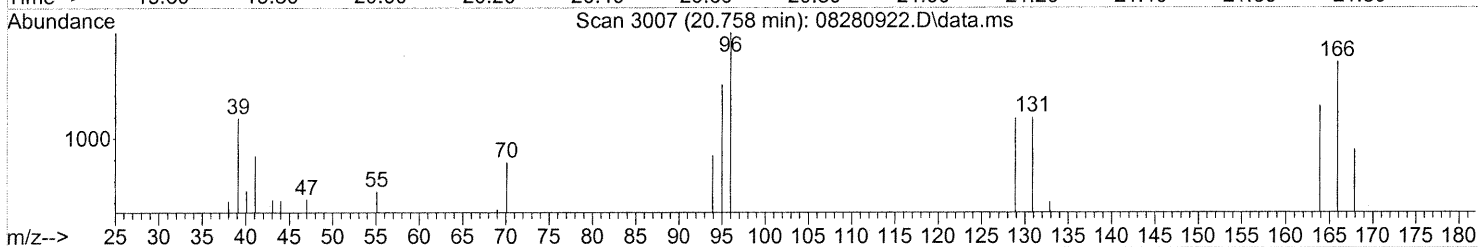
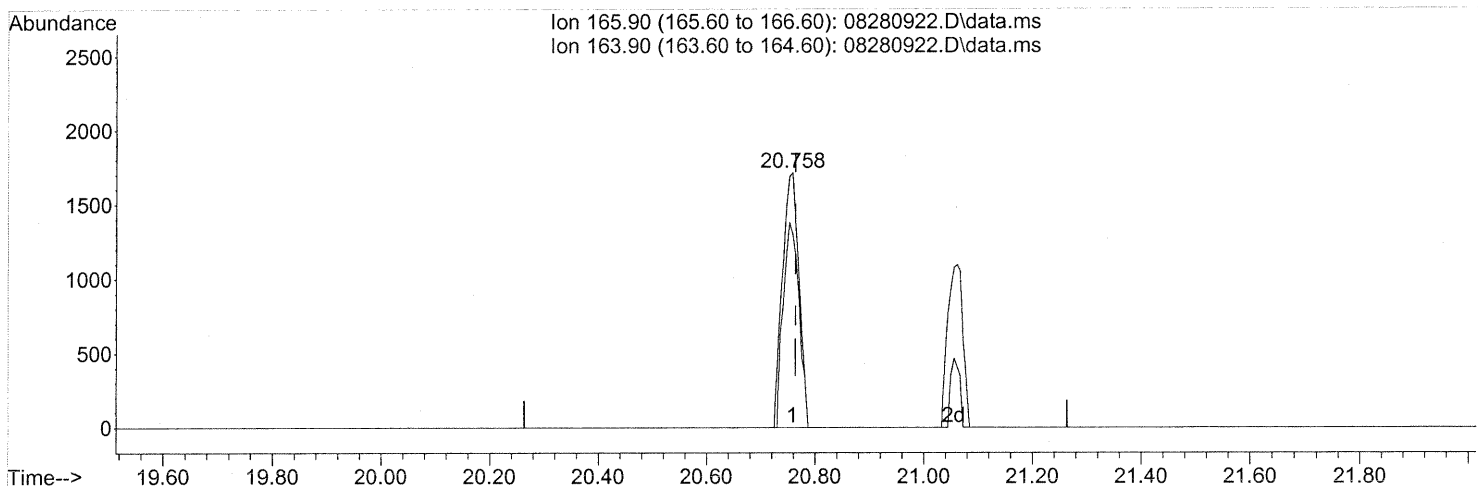
(63) n-Octane (T)
 20.558min (-0.011) 1.04ng
 response 23016

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	104.36
71.00	75.10	68.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.758min (-0.006) 0.15ng

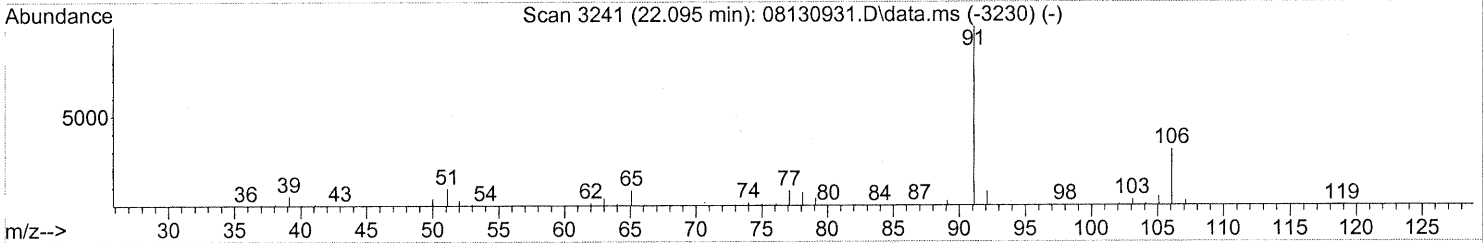
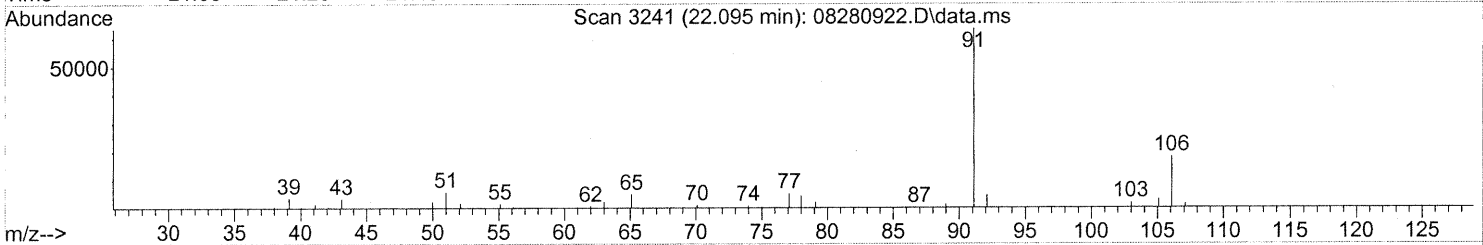
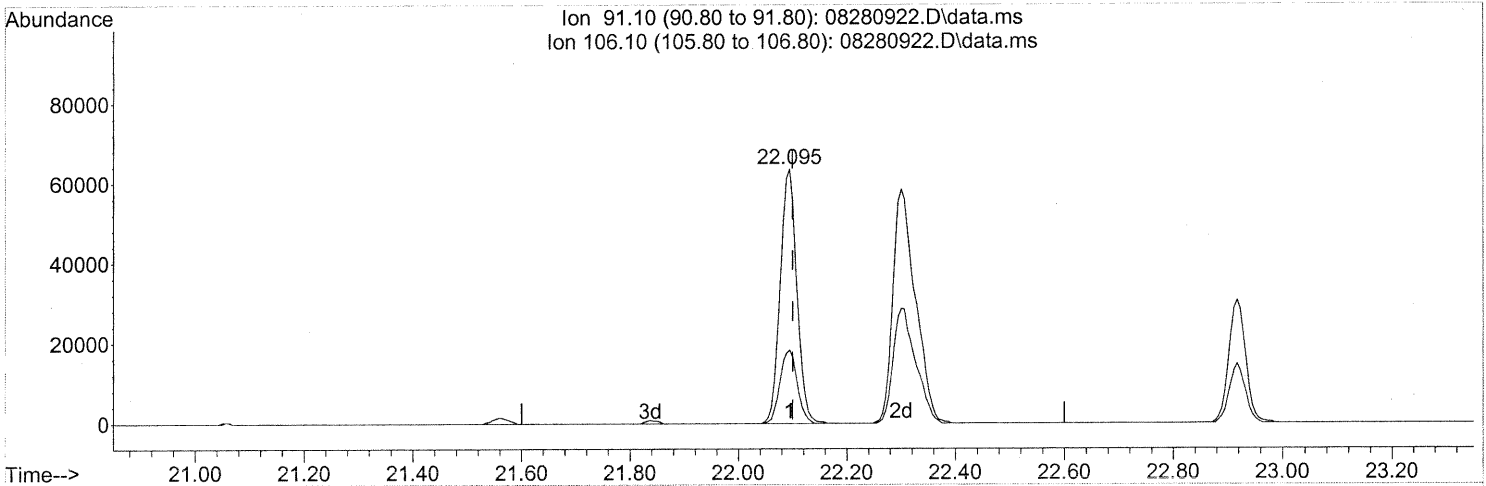
response 3641

ion	Exp%	Act%
165.90	100	100
163.90	77.80	76.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

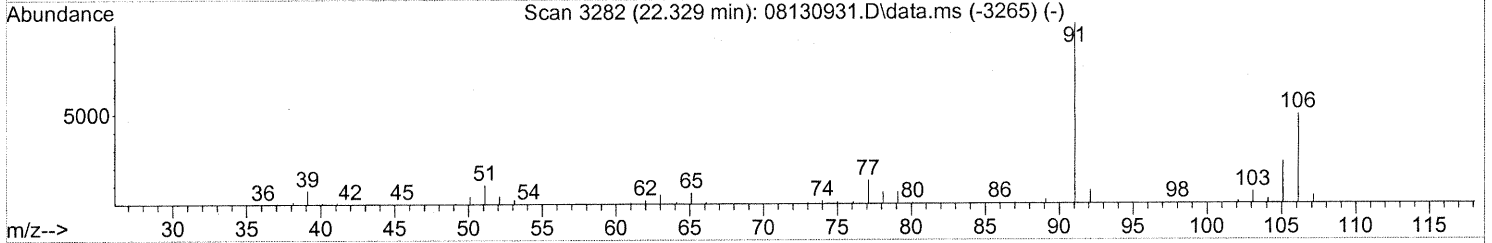
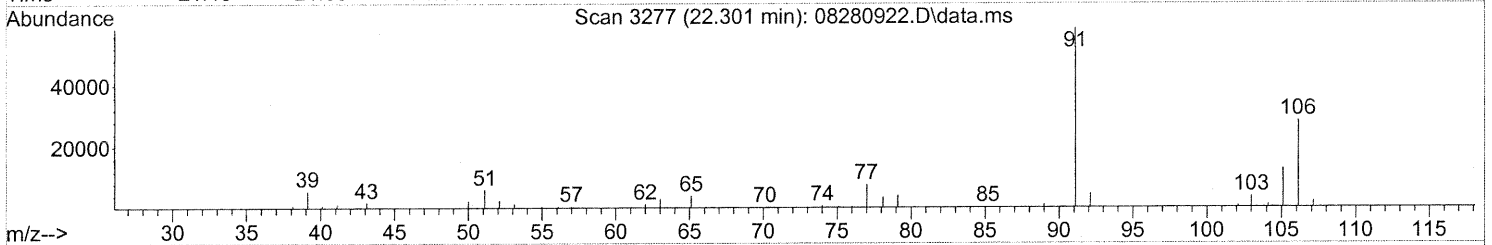
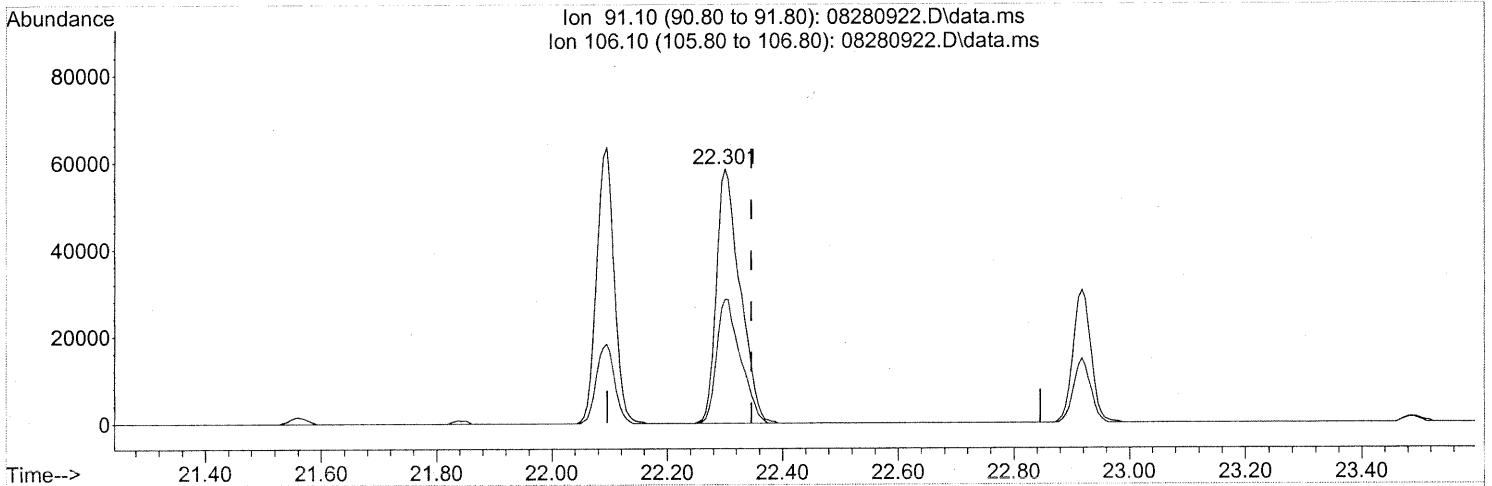
(66) Ethylbenzene (T)
 22.095min (-0.006) 1.25ng
 response 134460

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	29.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

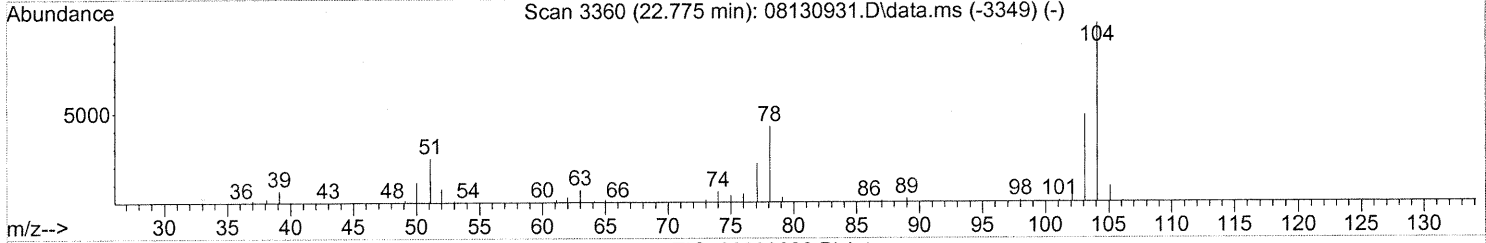
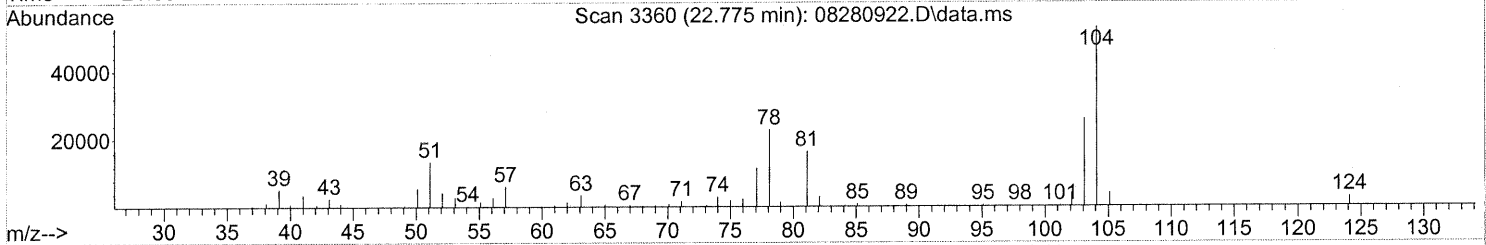
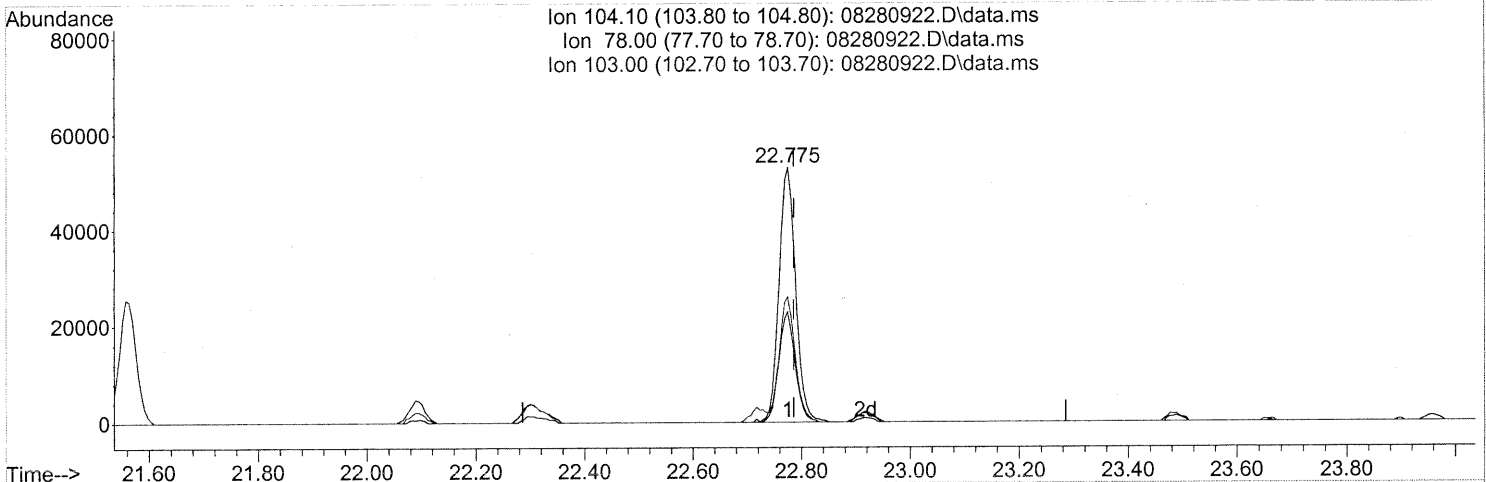
(67) m- & p-Xylenes (T)
 22.301min (-0.046) 1.96ng
 response 167011

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	48.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

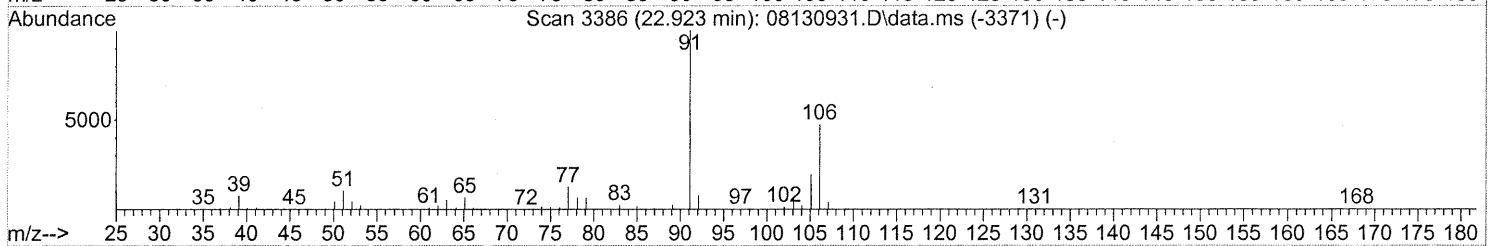
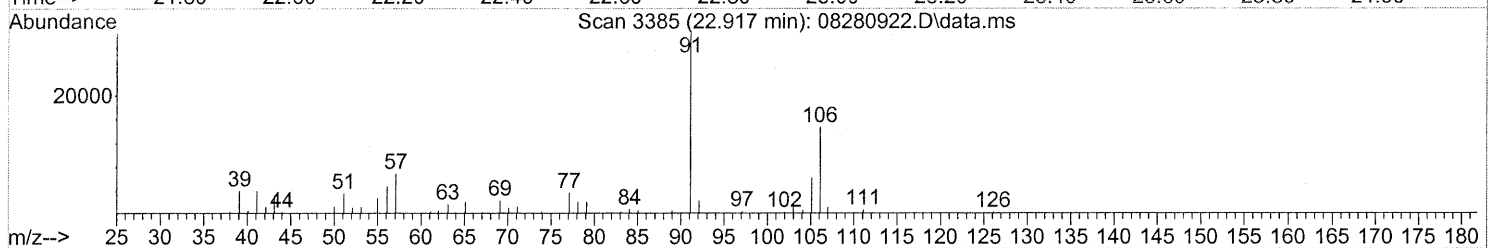
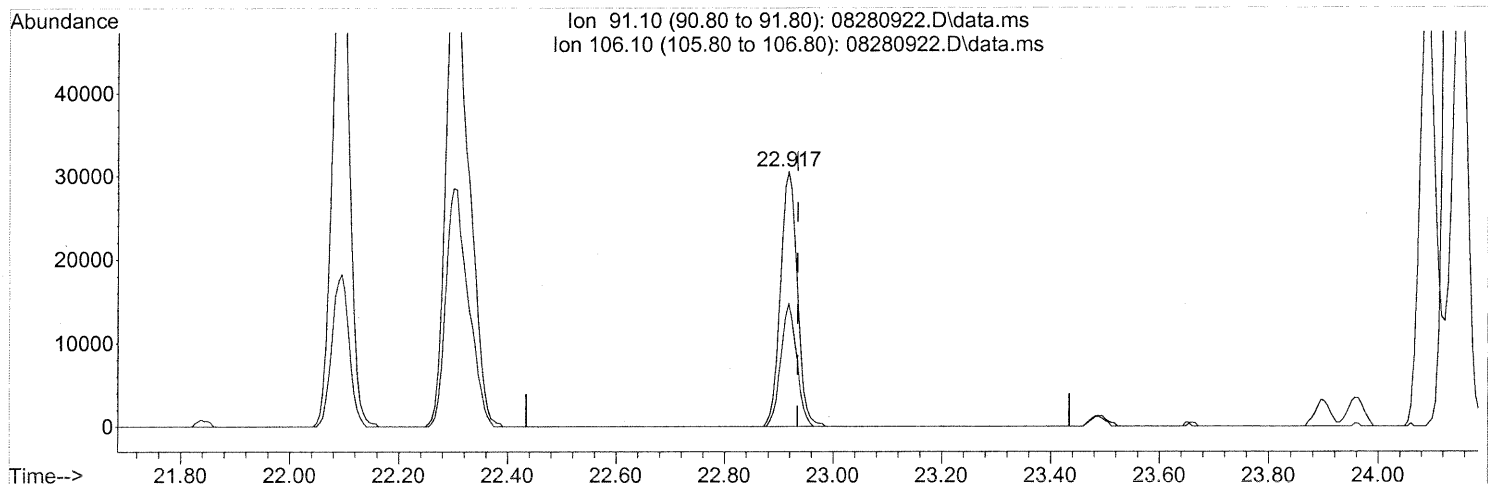
(69) Styrene (T)
 22.775min (-0.011) 1.79ng
 response 112299

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	42.14
103.00	48.70	47.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(70) o-Xylene (T)

22.917min (-0.017) 0.77ng

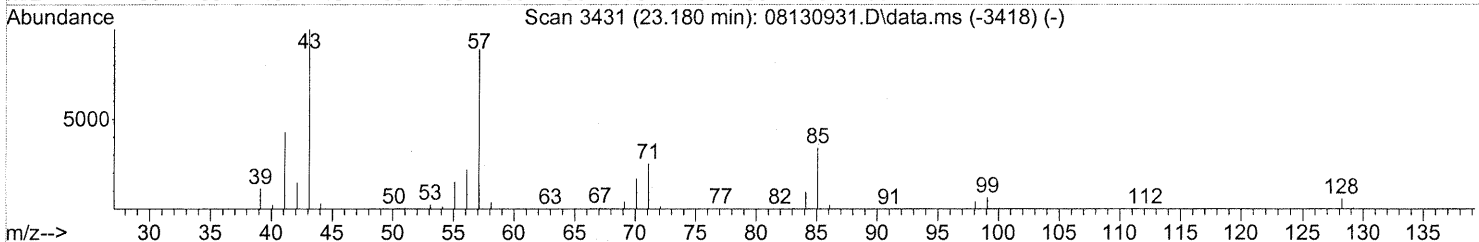
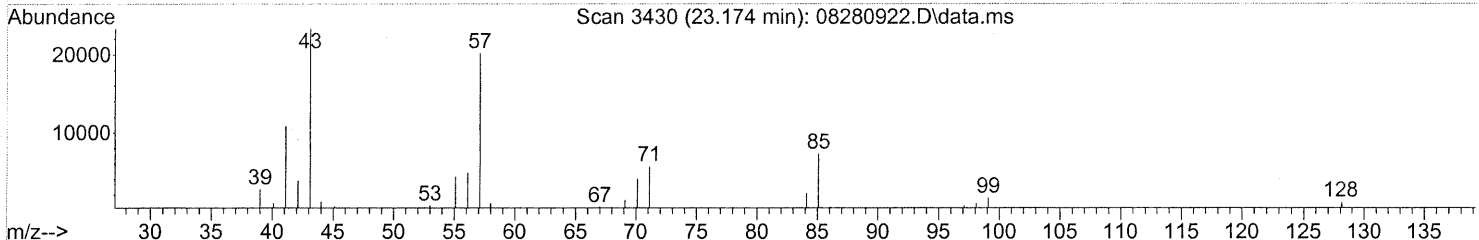
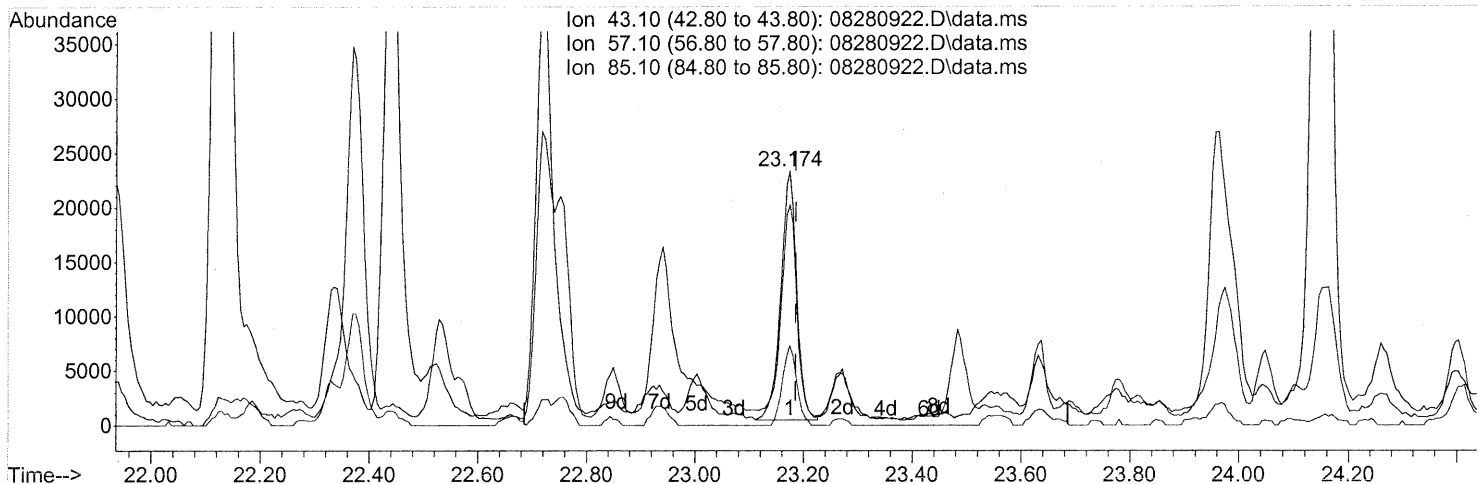
response 66115

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	45.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

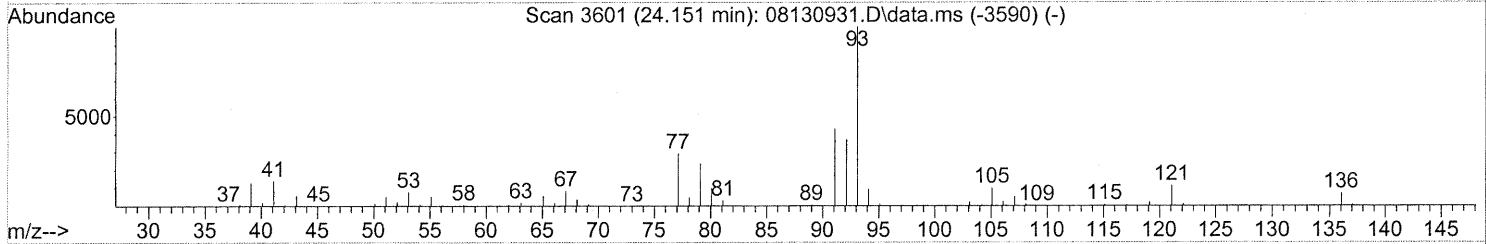
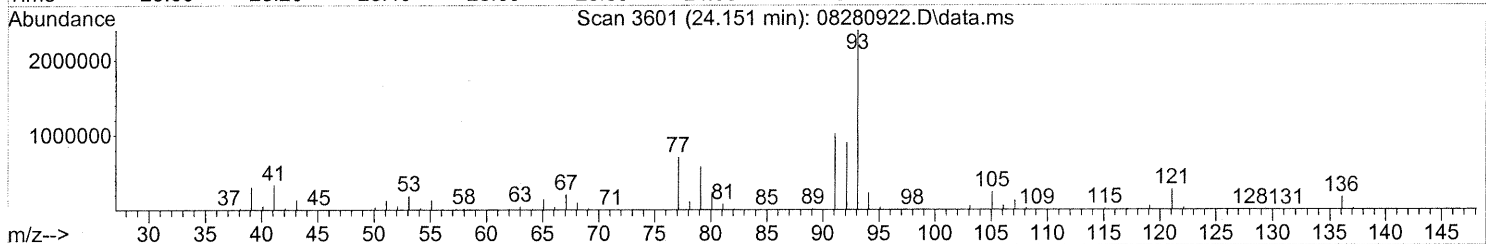
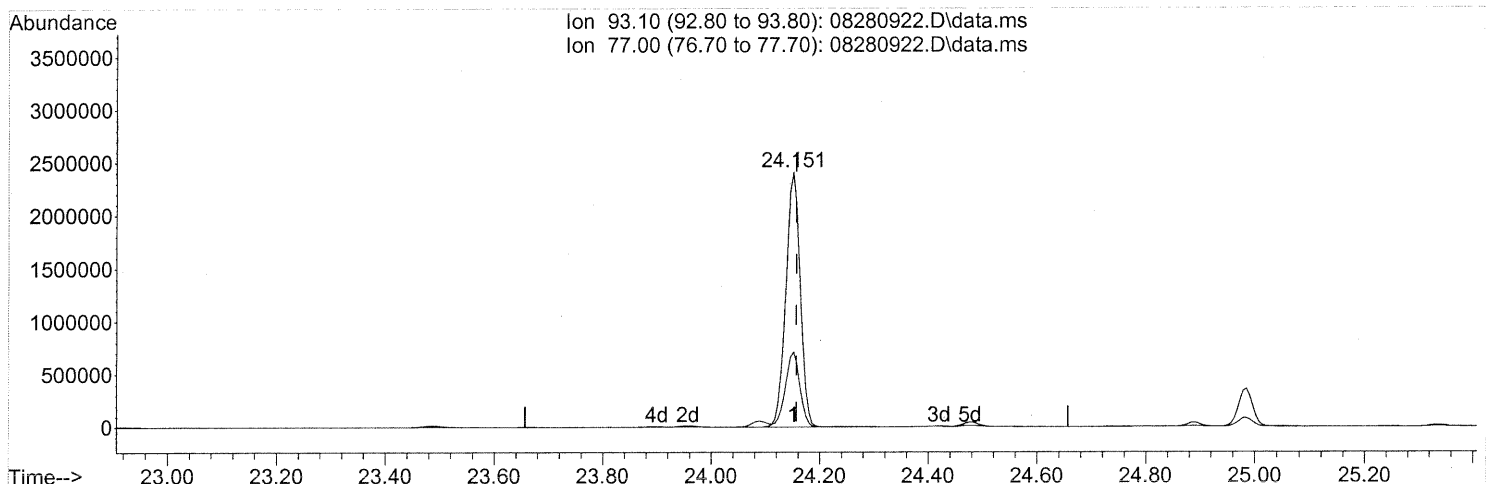
(71) n-Nonane (T)
 23.174min (-0.011) 0.91ng
 response 47003

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	83.42
85.10	38.80	28.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

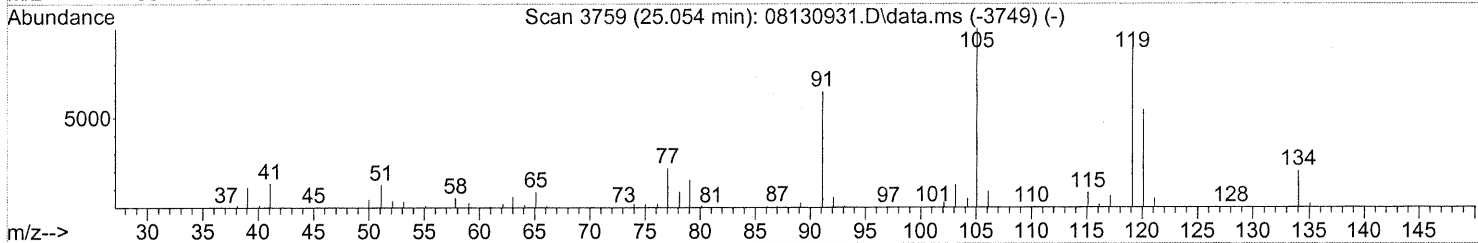
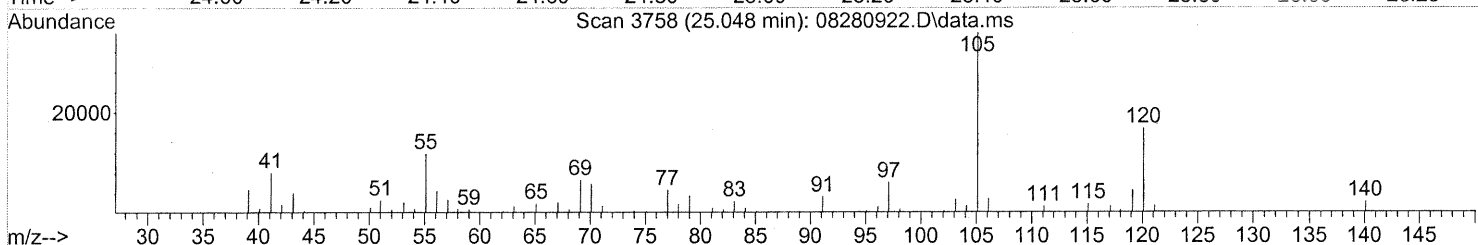
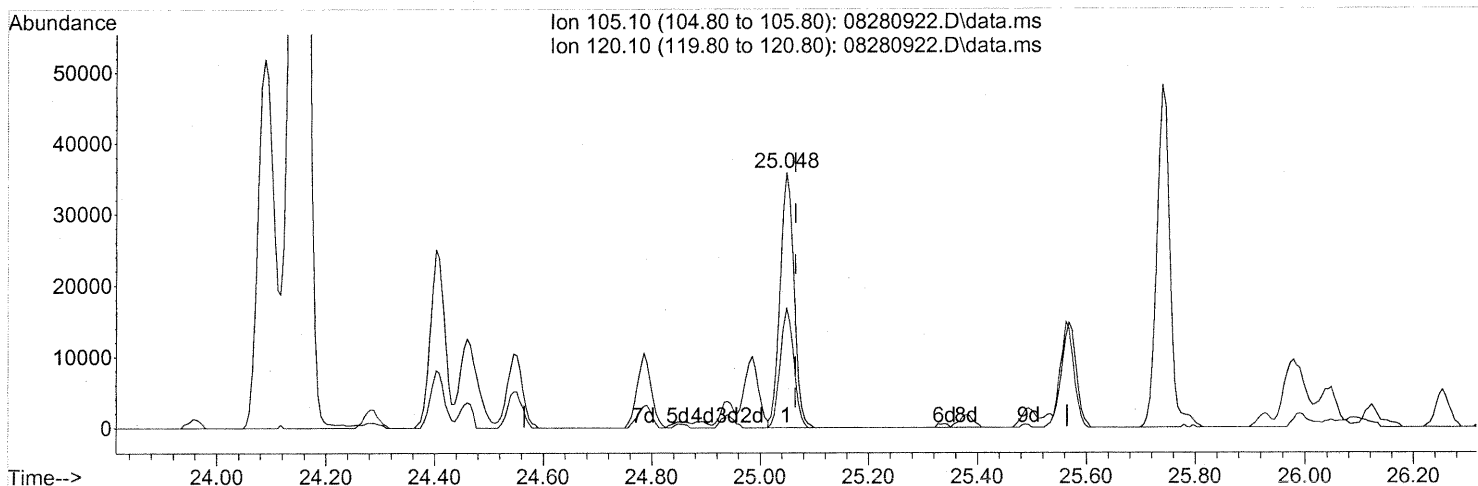
(75) alpha-Pinene (T)
 24.151min (-0.006) 80.78ng
 response 4420869

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

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

25.048min (-0.017) 0.70ng

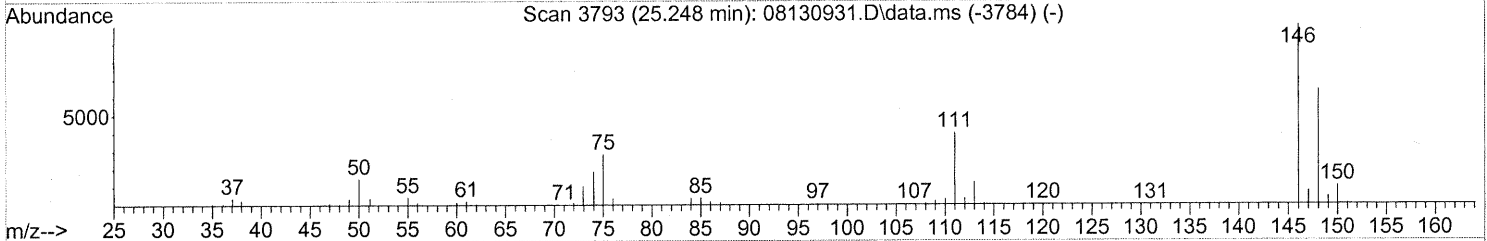
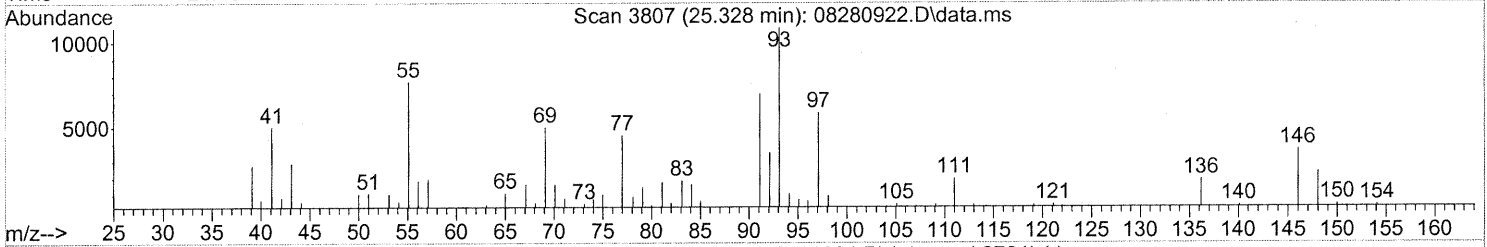
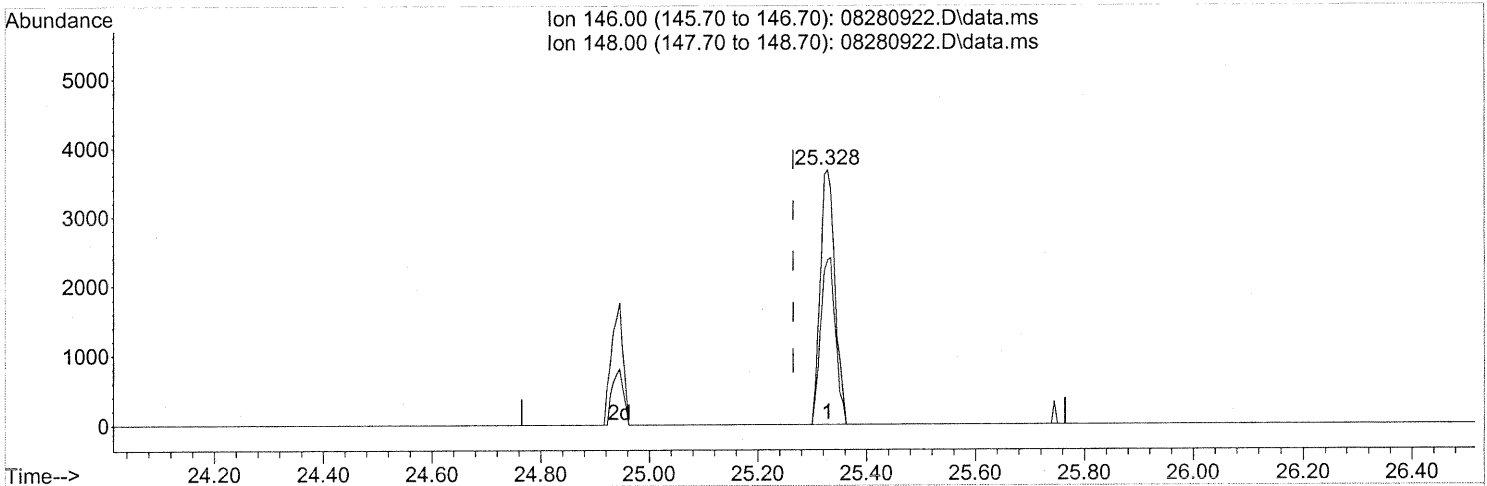
response 64055

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	45.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.328min (+0.063) 0.15ng

response 6901

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	65.70
0.00	0.00	0.00
0.00	0.00	0.00

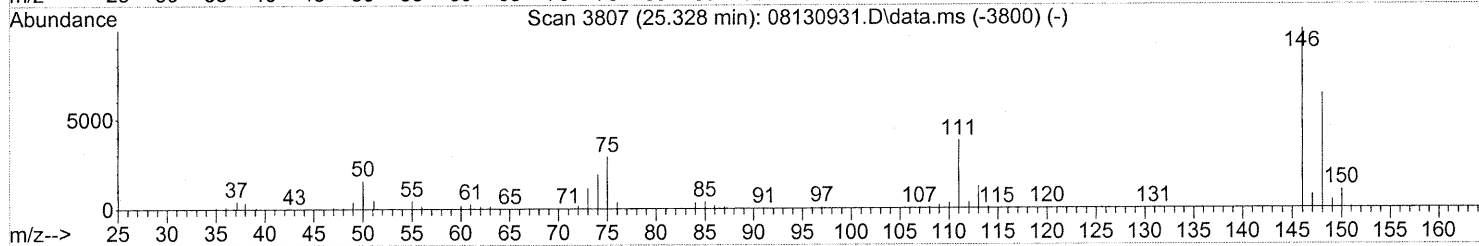
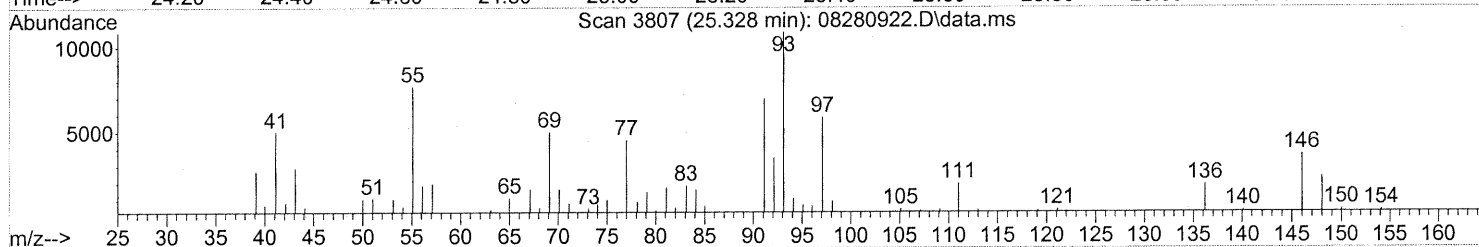
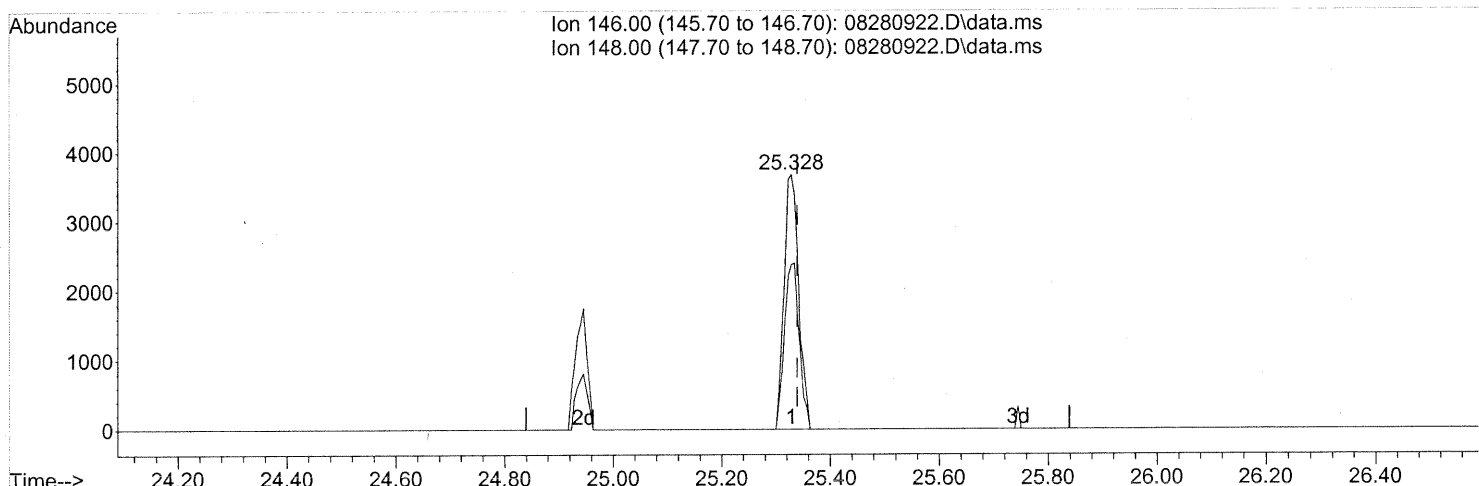
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129/1/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280922.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.14ng

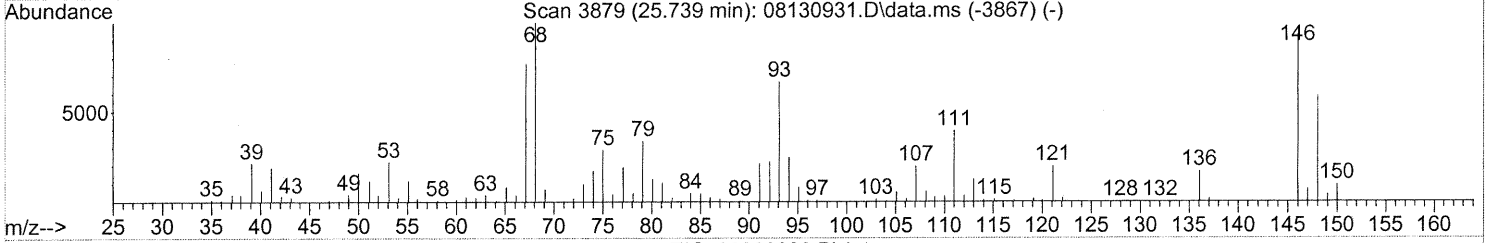
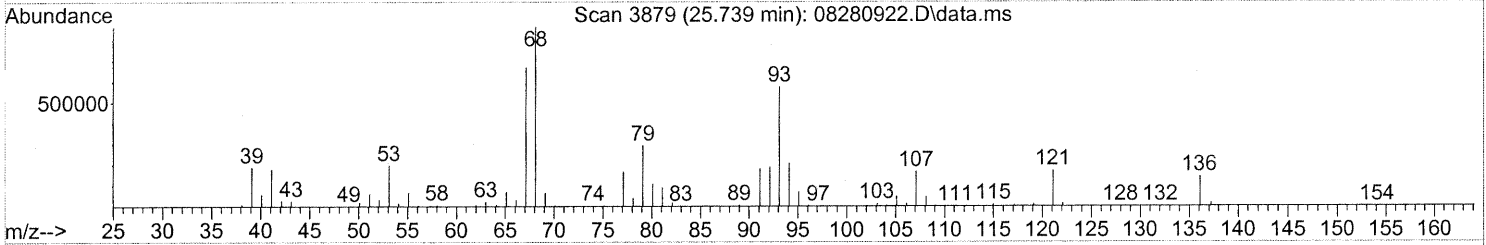
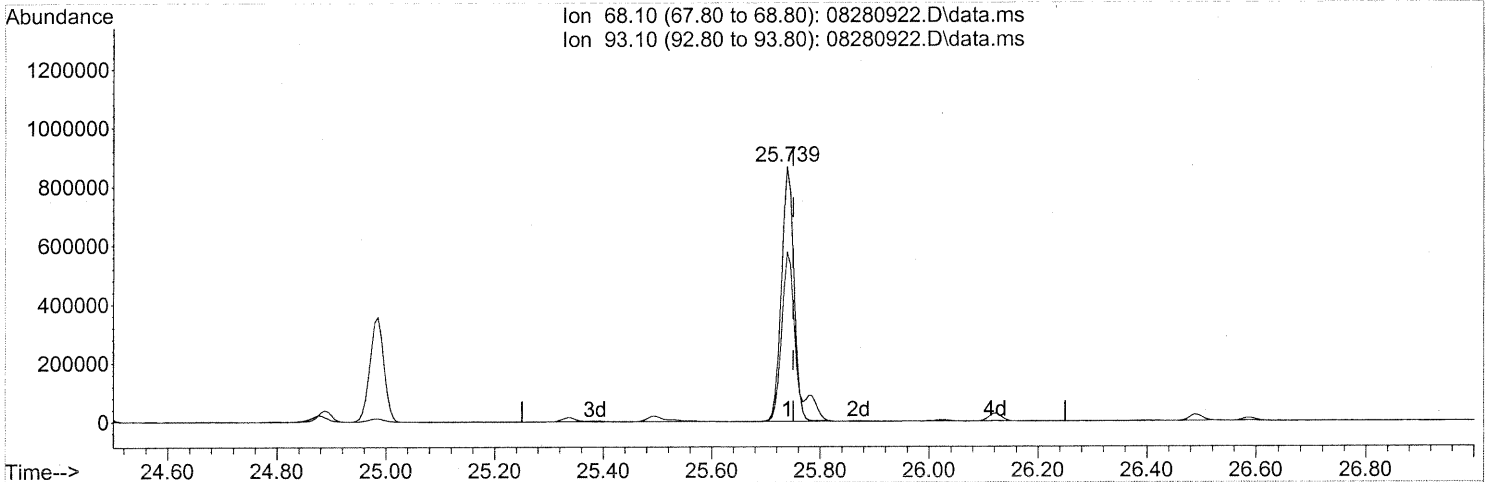
response 6901

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	65.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280922.D
 Acq On : 28 Aug 2009 21:00
 Operator : EM
 Sample : P0902899-002 (1000ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:07:56 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



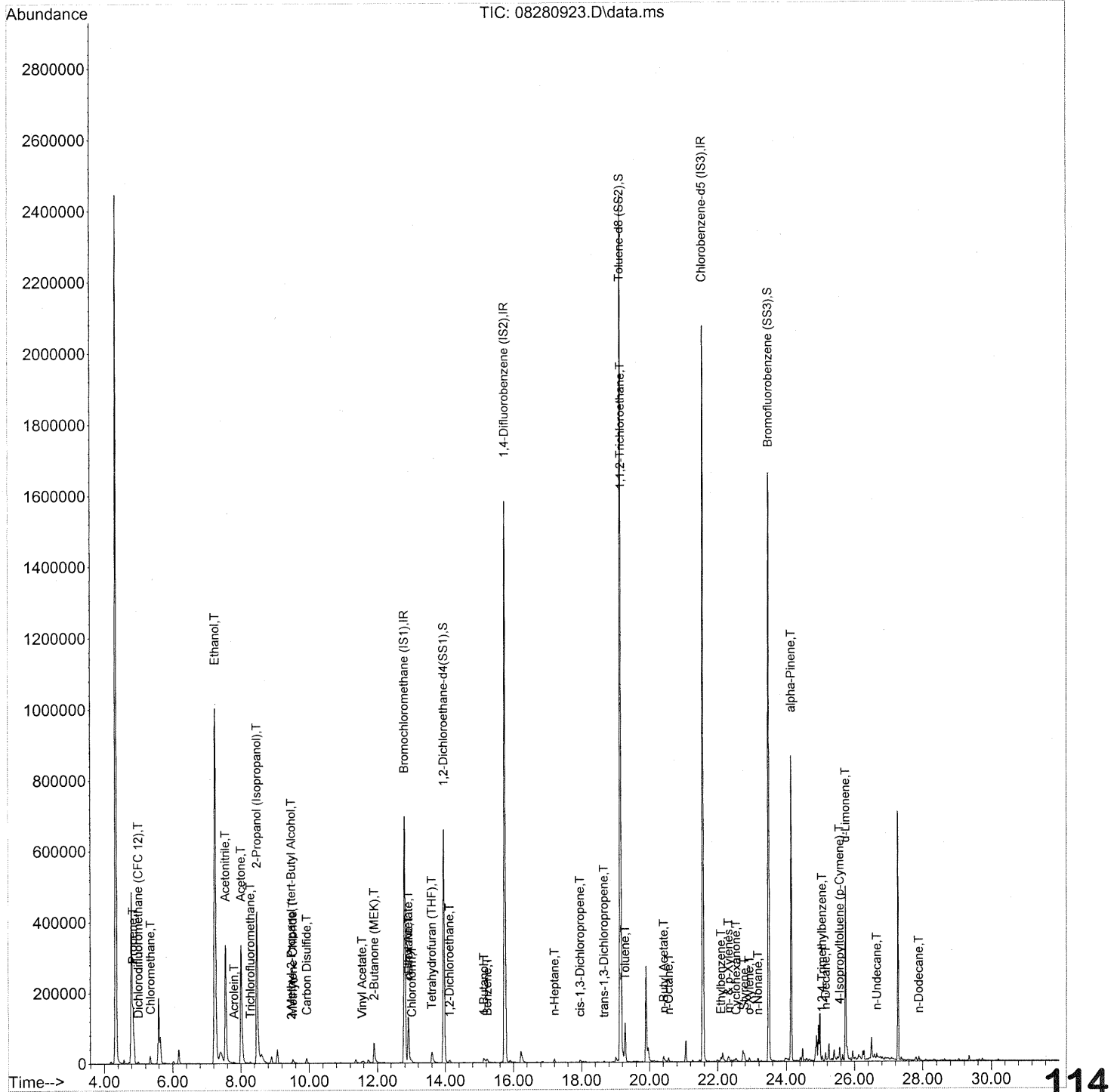
TIC: 08280922.D\data.ms

(91) d-Limonene (T)
 25.739min (-0.011) 37.38ng
 response 1402505

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	77.37
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280923.D
Acq On : 28 Aug 2009 21:42
Operator : EM
Sample : P0902899-002 dil (100ml)
Misc : Env. H & E 102516
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 10:42:21 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280923.D
 Acq On : 28 Aug 2009 21:42
 Operator : EM
 Sample : P0902899-002 dil (100ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 10:42:21 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.79	130	363256	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1849441	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	895586	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	658342	25.631	ng	-0.03	
Spiked Amount	25.000		Recovery	=	102.52%		✓
57) Toluene-d8 (SS2)	19.14	98	2143903	25.181	ng	-0.02	✓
Spiked Amount	25.000		Recovery	=	100.72%		✓
73) Bromofluorobenzene (SS3)	23.49	174	588030	24.388	ng	0.00	✓
Spiked Amount	25.000		Recovery	=	97.56%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	64244	2.016	ng	91
3) Dichlorodifluoromethan...	4.99	85	6966	0.153	ng #	92
4) Chloromethane	5.35	50	5691	0.134	ng	91
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.24	45	1975365m	98.826	ng	
11) Acetonitrile	7.55	41	534895	10.965	ng	99
12) Acrolein	7.80	56	3345	0.257	ng	100
13) Acetone	8.00	58	196232	9.647	ng	96
14) Trichlorofluoromethane	8.28	101	6040	0.155	ng	96
15) 2-Propanol (Isopropanol)	8.47	45	968841	17.393	ng	90
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	6215	0.110	ng #	69
19) Methylene Chloride	9.52	84	2016	0.079	ng #	71
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.93	76	30221	0.337	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.55	86	1312	0.298	ng #	1
27) 2-Butanone (MEK)	11.90	72	28886	2.037	ng #	72
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.90	61	31322	3.406	ng	94
31) n-Hexane	12.91	57	3343	0.075	ng #	6115

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Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280923.D
 Acq On : 28 Aug 2009 21:42
 Operator : EM
 Sample : P0902899-002 dil (100ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 10:42:21 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	3625	0.097	ng	97
34) Tetrahydrofuran (THF)	13.60	72	12261	0.832	ng #	60
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	8279	0.288	ng	97
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.13	56	18670	0.779	ng	85
41) Benzene	15.23	78	10764	0.108	ng	95
42) Carbon Tetrachloride	15.45	117	1379	N.D.		
43) Cyclohexane	15.65	84	1209	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	2765	N.D.		
50) Methyl Methacrylate	17.20	100	261	N.D.		
51) n-Heptane	17.20	71	2591	0.098	ng #	81
52) cis-1,3-Dichloropropene	17.96	75	6948	0.189	ng	91
53) 4-Methyl-2-pentanone	18.05	58	688	N.D.		
54) trans-1,3-Dichloropropene	18.66	75	4074	0.127	ng	72
55) 1,1,2-Trichloroethane	19.16	97	173216	8.152	ng #	8
58) Toluene	19.28	91	105743	1.025	ng	98
59) 2-Hexanone	19.59	43	1604	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.42	43	21741	0.371	ng	96
63) n-Octane	20.56	57	2361	0.103	ng #	79
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	13131	0.118	ng	97
67) m- & p-Xylenes	22.31	91	16378	0.185	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.77	104	10340	0.158	ng	98
70) o-Xylene	22.92	91	6295	0.071	ng	97
71) n-Nonane	23.17	43	5032	0.094	ng	77
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.66	105	728	N.D.		
75) alpha-Pinene	24.15	93	403076	7.090	ng	96
76) n-Propylbenzene	24.28	91	2338	N.D.		
77) 3-Ethyltoluene	24.40	105	4835	N.D.		
78) 4-Ethyltoluene	24.47	105	3173	N.D.		
79) 1,3,5-Trimethylbenzene	24.56	105	1925	N.D.		

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280923.D
 Acq On : 28 Aug 2009 21:42
 Operator : EM
 Sample : P0902899-002 dil (100ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 01 10:42:21 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

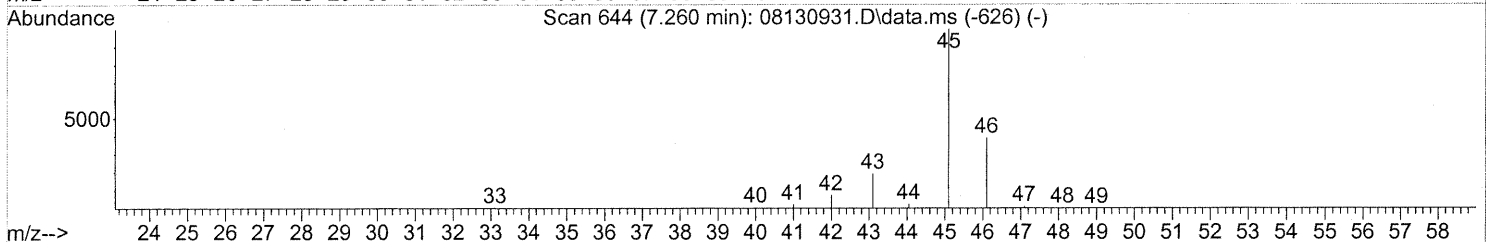
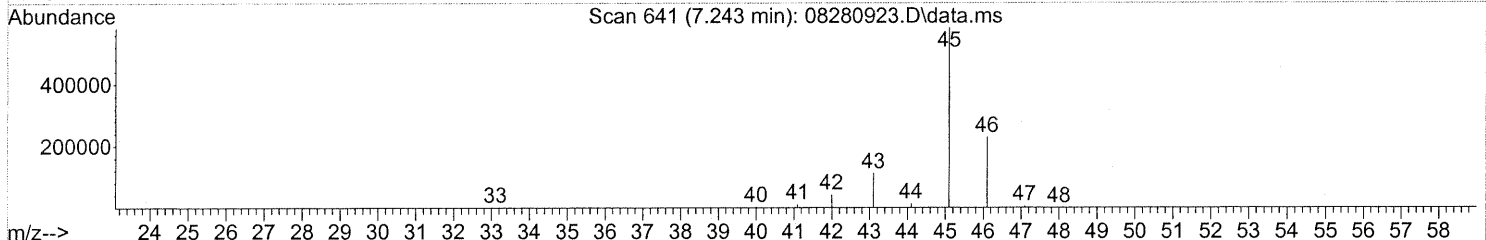
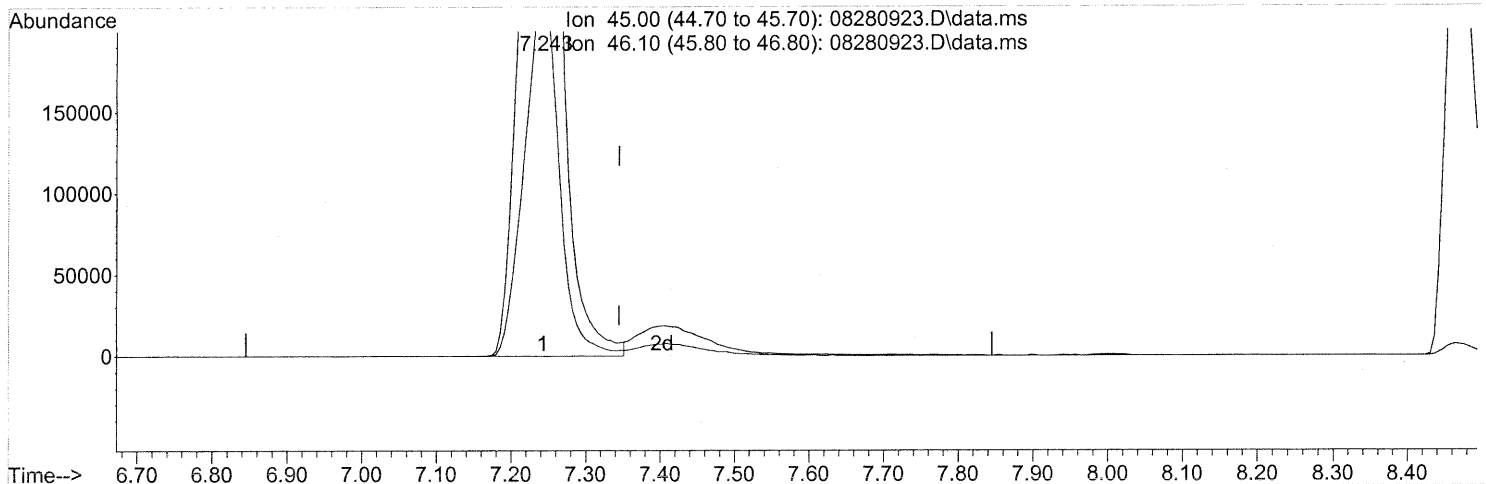
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.94	118	1214	N.D.		
81) 2-Ethyltoluene	24.79	105	2026	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	6355	0.067	ng	85
83) n-Decane	25.15	57	10972	0.198	ng	92
84) Benzyl Chloride	25.34	91	1648	N.D.		
85) 1,3-Dichlorobenzene	25.34	146	450	N.D.		
86) 1,4-Dichlorobenzene	25.34	146	450	N.D.		
87) sec-Butylbenzene	25.49	105	117	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	19050	0.158	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2696	N.D.		
90) 1,2-Dichlorobenzene	25.34	146	450	N.D.		
91) d-Limonene	25.74	68	135684	3.481	ng	93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	5766	0.101	ng	# 79
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.95	128	5000	N.D.		
96) n-Dodecane	27.89	57	5272	0.082	ng	90
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.53	55	4370	0.134	ng	# 82
99) tert-Butylbenzene	25.05	119	818	N.D.		
100) n-Butylbenzene	26.12	91	2839	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280923.D
 Acq On : 28 Aug 2009 21:42
 Operator : EM
 Sample : P0902899-002 dil (100ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:08:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280923.D\data.ms

(10) Ethanol (T)

7.243min (-0.103) 92.34ng

response 1845655

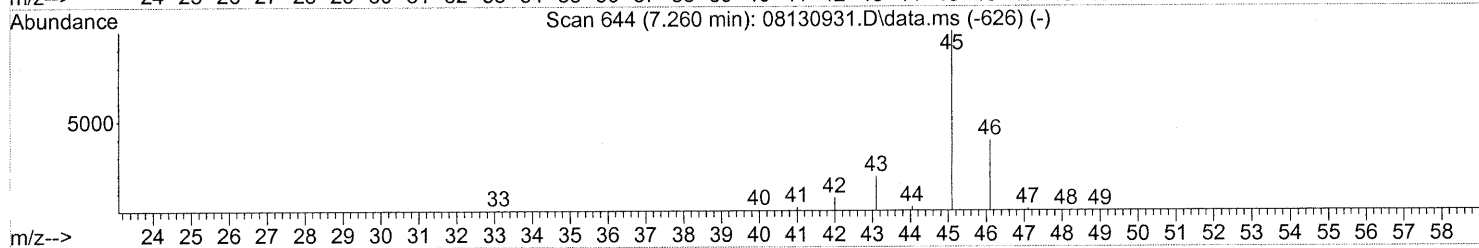
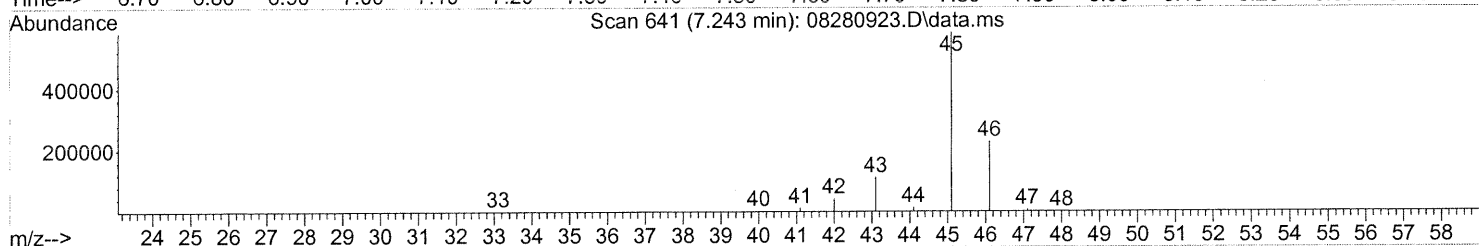
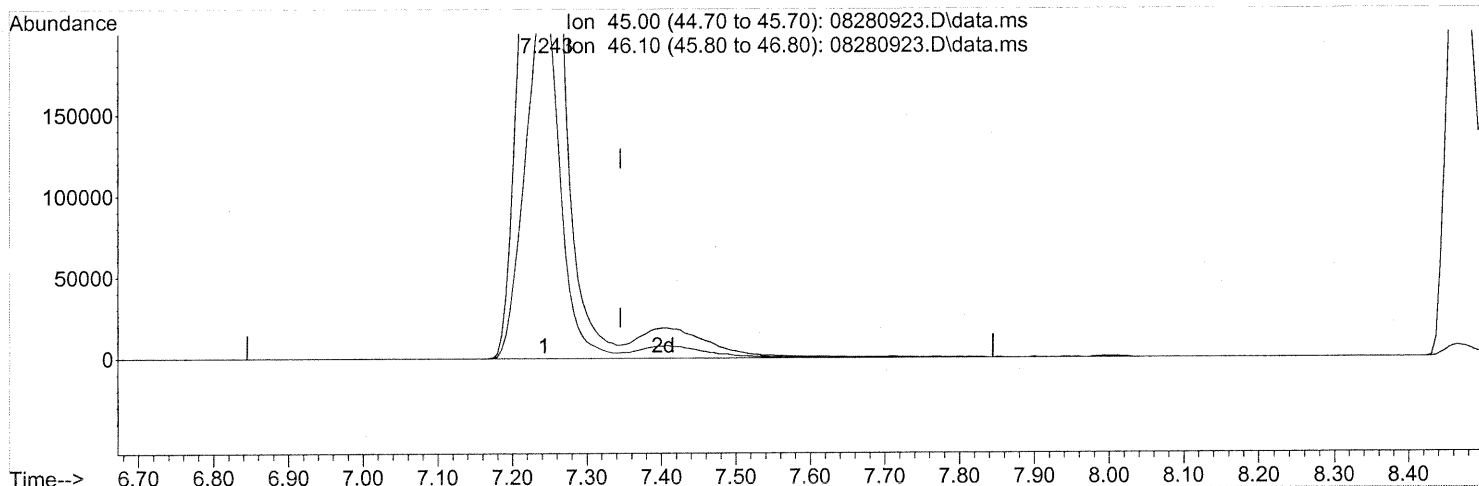
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280923.D
 Acq On : 28 Aug 2009 21:42
 Operator : EM
 Sample : P0902899-002 dil (100ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:08:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280923.D\data.ms

(10) Ethanol (T)

7.243min (-0.103) 98.83ng m

response 1975365

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.58
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

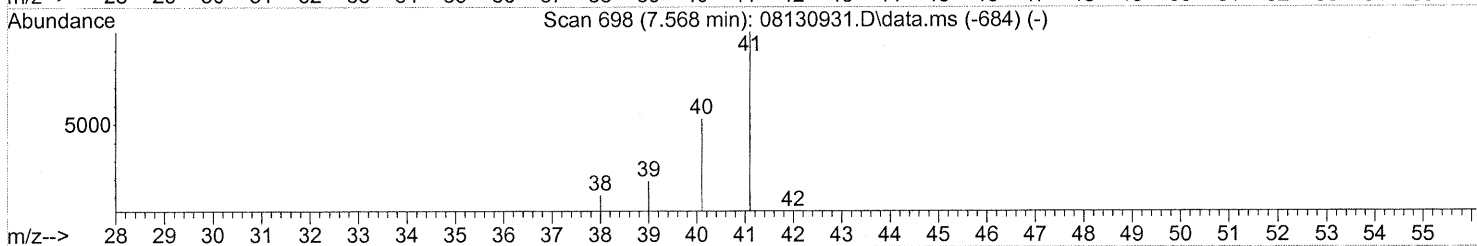
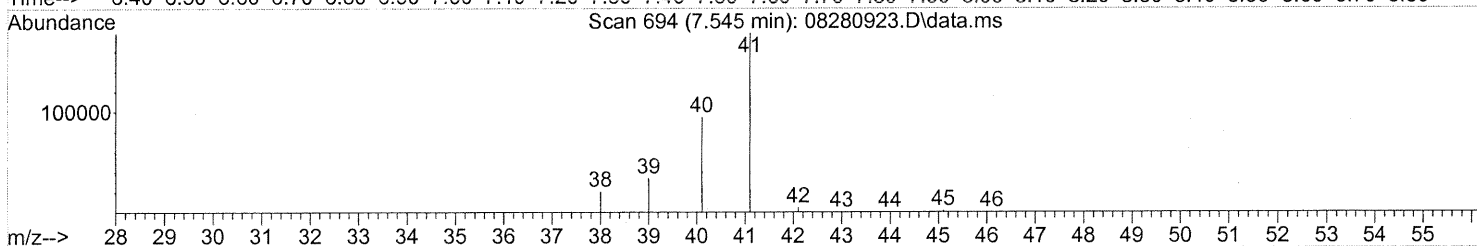
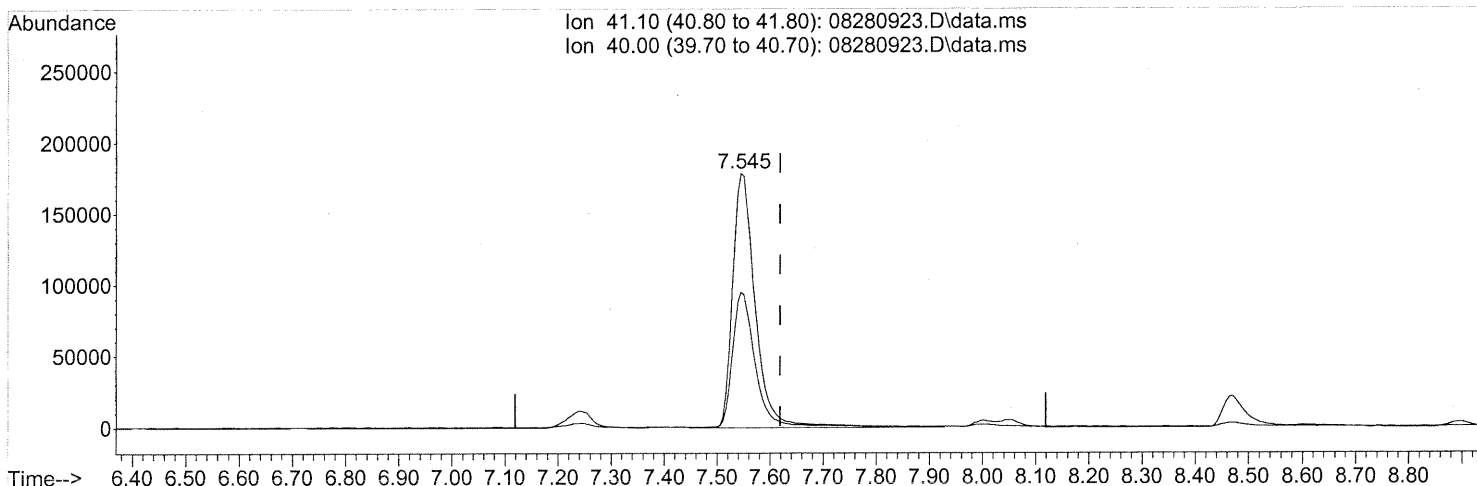
com 9/1/09

KE 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280923.D
 Acq On : 28 Aug 2009 21:42
 Operator : EM
 Sample : P0902899-002 dil (100ml)
 Misc : Env. H & E 102516
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:08:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280923.D\data.ms

(11) Acetonitrile (T)
 7.545min (-0.074) 10.97ng
 response 534895

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.25
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: 102517
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01355

CAS Project ID: P0902899
 CAS Sample ID: P0902899-003

Date Collected: 8/20/09
 Date Received: 8/21/09
 Date Analyzed: 8/28/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	2.0	0.81	1.1	0.47	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.81	0.45	0.16	
74-87-3	Chloromethane	0.40	0.16	0.19	0.078	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.81	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.063	
106-99-0	1,3-Butadiene	ND	0.16	ND	0.073	
74-83-9	Bromomethane	ND	0.16	ND	0.041	
75-00-3	Chloroethane	ND	0.16	ND	0.061	
64-17-5	Ethanol	21	8.1	11	4.3	
75-05-8	Acetonitrile	1.7	0.81	1.0	0.48	
107-02-8	Acrolein	1.1	0.81	0.50	0.35	
67-64-1	Acetone	8.4	8.1	3.5	3.4	
75-69-4	Trichlorofluoromethane	1.1	0.16	0.20	0.029	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.9	0.81	1.6	0.33	
107-13-1	Acrylonitrile	ND	0.81	ND	0.37	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.041	
75-09-2	Methylene Chloride	ND	0.81	ND	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.051	
76-13-1	Trichlorotrifluoroethane	0.50	0.16	0.065	0.021	
75-15-0	Carbon Disulfide	ND	0.81	ND	0.26	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.041	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	ND	0.045	
108-05-4	Vinyl Acetate	ND	8.1	ND	2.3	
78-93-3	2-Butanone (MEK)	1.4	0.81	0.48	0.27	

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

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

Verified By: Re Date: 9/2/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102517

Client Project ID: 16512

CAS Project ID: P0902899

CAS Sample ID: P0902899-003

Test Code: EPA TO-15

Date Collected: 8/20/09

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

Date Received: 8/21/09

Analyst: Elsa Moctezuma

Date Analyzed: 8/28/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01355

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.041	
141-78-6	Ethyl Acetate	ND	1.6	ND	0.45	
110-54-3	n-Hexane	ND	0.81	ND	0.23	
67-66-3	Chloroform	ND	0.16	ND	0.033	
109-99-9	Tetrahydrofuran (THF)	ND	0.81	ND	0.27	
107-06-2	1,2-Dichloroethane	ND	0.16	ND	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.030	
71-43-2	Benzene	ND	0.16	ND	0.050	
56-23-5	Carbon Tetrachloride	0.46	0.16	0.074	0.026	
110-82-7	Cyclohexane	ND	0.81	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.035	
75-27-4	Bromodichloromethane	ND	0.16	ND	0.024	
79-01-6	Trichloroethene	ND	0.16	ND	0.030	
123-91-1	1,4-Dioxane	ND	0.81	ND	0.22	
80-62-6	Methyl Methacrylate	ND	1.6	ND	0.39	
142-82-5	n-Heptane	ND	0.81	ND	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.81	ND	0.18	
108-10-1	4-Methyl-2-pentanone	ND	0.81	ND	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.81	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.030	
108-88-3	Toluene	1.6	0.81	0.41	0.21	
591-78-6	2-Hexanone	ND	0.81	ND	0.20	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.021	
123-86-4	n-Butyl Acetate	1.1	0.81	0.24	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: 9/10/09 **122**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102517
Client Project ID: 16512

CAS Project ID: P0902899
 CAS Sample ID: P0902899-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01355

Date Collected: 8/20/09
Date Received: 8/21/09
Date Analyzed: 8/28/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.81	ND	0.17	
127-18-4	Tetrachloroethene	ND	0.16	ND	0.024	
108-90-7	Chlorobenzene	ND	0.16	ND	0.035	
100-41-4	Ethylbenzene	ND	0.81	ND	0.19	
179601-23-1	m,p-Xylenes	ND	0.81	ND	0.19	
75-25-2	Bromoform	ND	0.81	ND	0.078	
100-42-5	Styrene	2.1	0.81	0.50	0.19	
95-47-6	o-Xylene	ND	0.81	ND	0.19	
111-84-2	n-Nonane	ND	0.81	ND	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
98-82-8	Cumene	ND	0.81	ND	0.16	
80-56-8	alpha-Pinene	0.87	0.81	0.16	0.14	
103-65-1	n-Propylbenzene	ND	0.81	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.81	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.81	ND	0.16	
95-63-6	1,2,4-Trimethylbenzene	ND	0.81	ND	0.16	
100-44-7	Benzyl Chloride	ND	0.16	ND	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.16	ND	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.16	ND	0.027	
5989-27-5	d-Limonene	2.7	0.81	0.49	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.81	ND	0.083	
120-82-1	1,2,4-Trichlorobenzene	ND	0.81	ND	0.11	
91-20-3	Naphthalene	ND	0.81	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.81	ND	0.075	

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

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

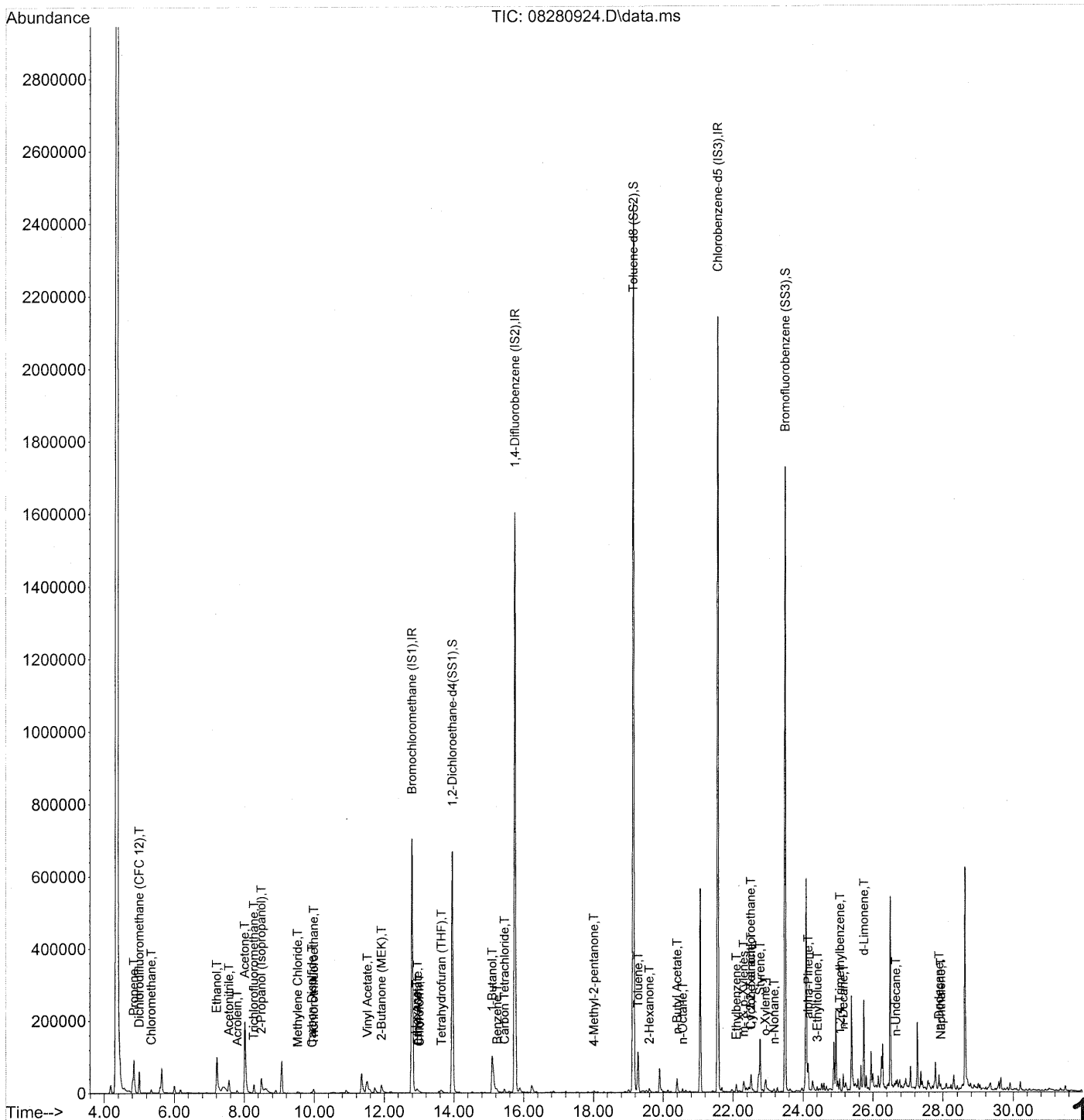
Verified By:

Date: 9/2/09

123

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 10:44:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 10:44:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	363464	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1872716	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	917539	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	664574	25.859	ng	-0.03	✓
Spiked Amount	25.000			Recovery	=	103.44%	
57) Toluene-d8 (SS2)	19.14	98	2162744	24.794	ng	-0.02	✓
Spiked Amount	25.000			Recovery	=	99.16%	
73) Bromofluorobenzene (SS3)	23.49	174	602293	24.382	ng	0.00	✓
Spiked Amount	25.000			Recovery	=	97.52%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	38695	1.214	ng	97
3) Dichlorodifluoromethan...	5.00	85	63201	1.389	ng	99
4) Chloromethane	5.34	50	10495	0.247	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	981	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	7.21	45	256043m	12.802	ng	
11) Acetonitrile	7.56	41	51919	1.064	ng	100
12) Acrolein	7.80	56	9212	0.706	ng	98
13) Acetone	8.01	58	105644m	5.191	ng	
14) Trichlorofluoromethane	8.28	101	26653	0.685	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	135467	2.431	ng	98
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.49	59	1852	N.D.		
19) Methylene Chloride	9.52	84	2101	0.083	ng	86
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	9.98	151	5420	0.311	ng	91
22) Carbon Disulfide	9.93	76	6460	0.072	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	11.35	73	250	N.D.		
26) Vinyl Acetate	11.52	86	8566	1.943	ng	# 62
27) 2-Butanone (MEK)	11.92	72	12471	0.879	ng	# 41
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.96	61	1721	0.187	ng	86
31) n-Hexane	12.92	57	3113	0.069	ng	86

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Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 10:44:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.01	83	2980	0.079	ng	100
34) Tetrahydrofuran (THF)	13.64	72	1227	0.083	ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	329	N.D.		
38) 1,1,1-Trichloroethane	14.51	97	1154	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.09	56	134005	5.522	ng	82
41) Benzene	15.23	78	7735	0.077	ng	92
42) Carbon Tetrachloride	15.45	117	8117	0.288	ng	99
43) Cyclohexane	15.65	84	397	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	16.37	83	231	N.D.		
47) Trichloroethene	16.77	130	935	N.D.		
48) 1,4-Dioxane	16.77	88	224	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	5137	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	17.21	71	858	N.D.		
52) cis-1,3-Dichloropropene	17.96	75	223	N.D.		
53) 4-Methyl-2-pentanone	18.01	58	1682	0.077	ng #	31
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	19.28	91	102414	0.969	ng	99
59) 2-Hexanone	19.60	43	13885	0.253	ng	75
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.40	43	41794	0.697	ng	95
63) n-Octane	20.56	57	1911	0.081	ng #	80
64) Tetrachloroethene	20.75	166	948	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	22175	0.194	ng	96
67) m- & p-Xylenes	22.30	91	31578	0.349	ng	99
68) Bromoform	22.41	173	105	N.D.		
69) Styrene	22.77	104	88479	1.323	ng	100
70) o-Xylene	22.92	91	13256	0.146	ng	96
71) n-Nonane	23.17	43	4055	0.074	ng	86
72) 1,1,2,2-Tetrachloroethane	22.51	83	2465	0.063	ng #	18
74) Cumene	23.67	105	1360	N.D.		
75) alpha-Pinene	24.15	93	31636	0.543	ng #	45
76) n-Propylbenzene	24.29	91	3661	N.D.		
77) 3-Ethyltoluene	24.41	105	8011	0.072	ng	89
78) 4-Ethyltoluene	24.46	105	4009	N.D.		
79) 1,3,5-Trimethylbenzene	24.55	105	3375	N.D.		

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 01 10:44:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

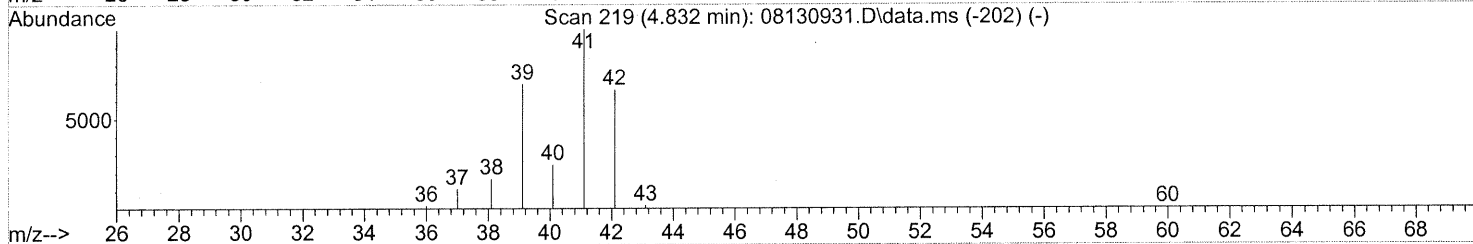
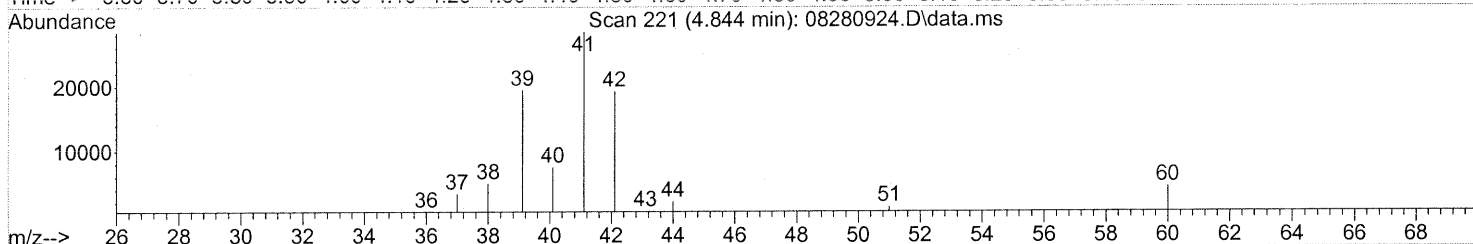
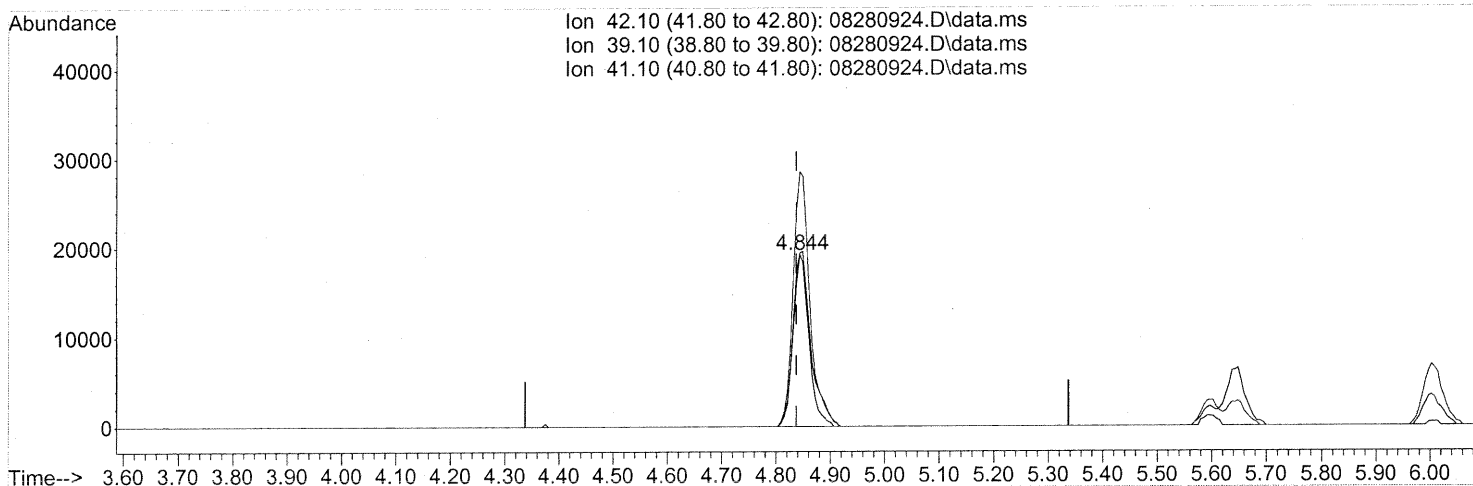
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1956	N.D.		
81) 2-Ethyltoluene	24.79	105	3551	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	11209	0.115 ng		87
83) n-Decane	25.15	57	21705	0.382	ng	85
84) Benzyl Chloride	25.34	91	103	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	730	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	730	N.D.		
87) sec-Butylbenzene	25.41	105	2059	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	5519	N.D.		
89) 1,2,3-Trimethylbenzene	25.57	105	4031	N.D.		
90) 1,2-Dichlorobenzene	25.33	146	730	N.D.		
91) d-Limonene	25.74	68	68224	1.708	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	6011	0.102	ng	92
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	12290	0.094 ng		92
96) n-Dodecane	27.89	57	14501	0.221	ng	93
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	29771	0.894	ng	91
99) tert-Butylbenzene	25.05	119	1300	N.D.		
100) n-Butylbenzene	26.03	91	2640	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



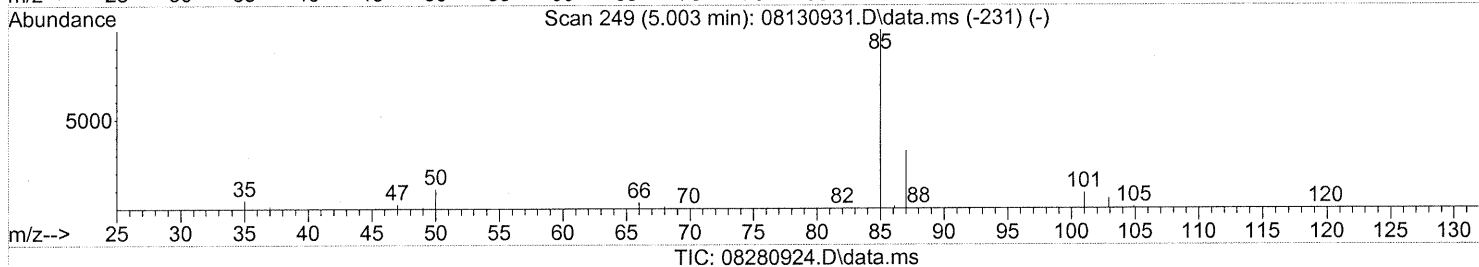
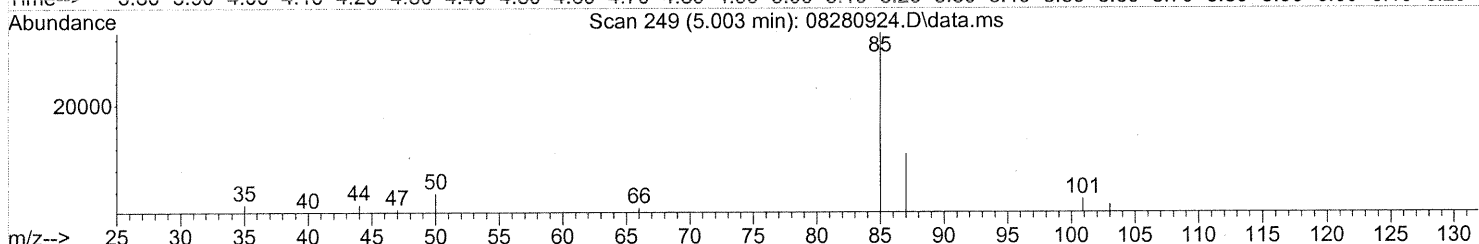
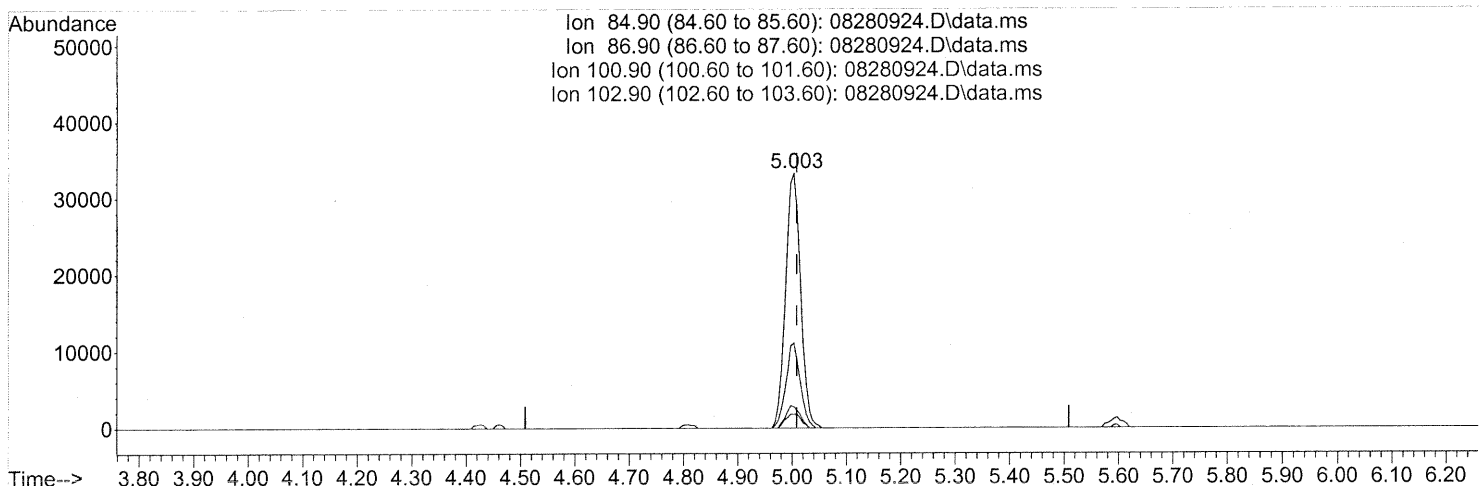
(2) Propene (T)
 4.844min (+0.006) 1.21ng
 response 38695

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	117.18
41.10	152.70	159.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

5.003min (-0.006) 1.39ng

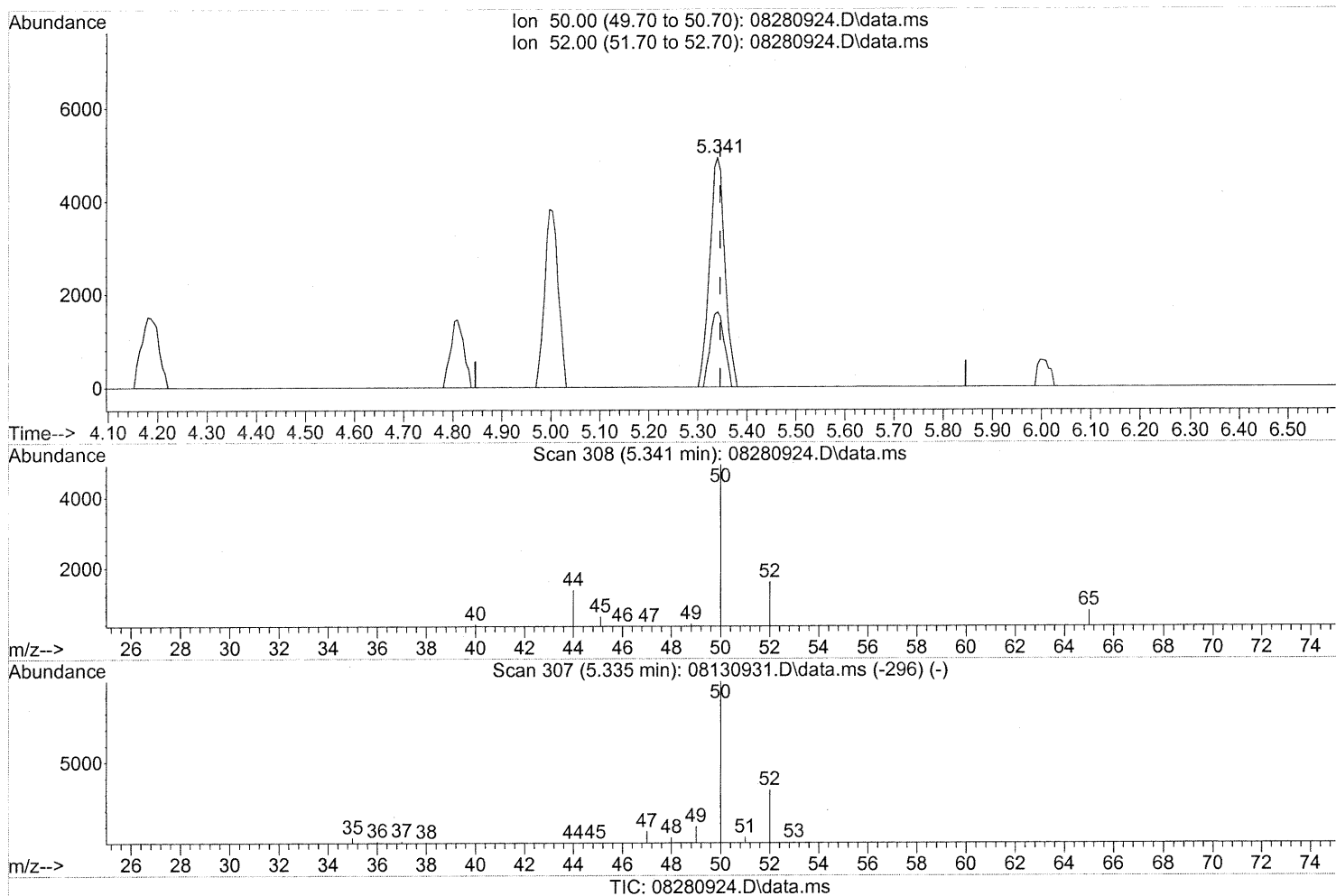
response 63201

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.83
100.90	9.10	8.16
102.90	5.50	5.59

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.341min (-0.006) 0.25ng

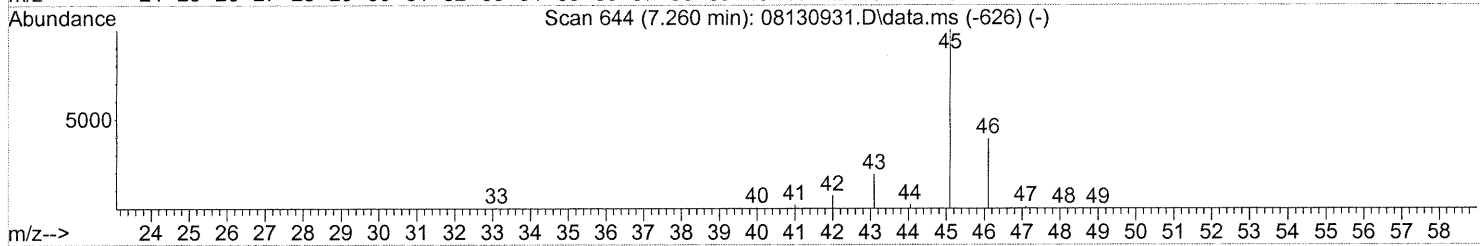
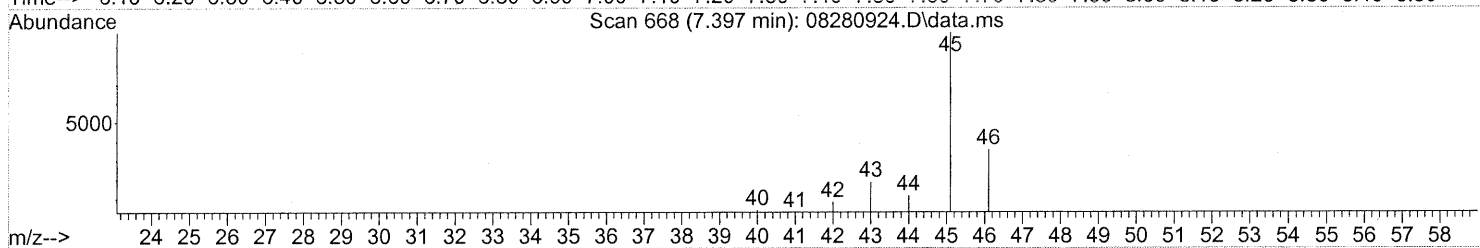
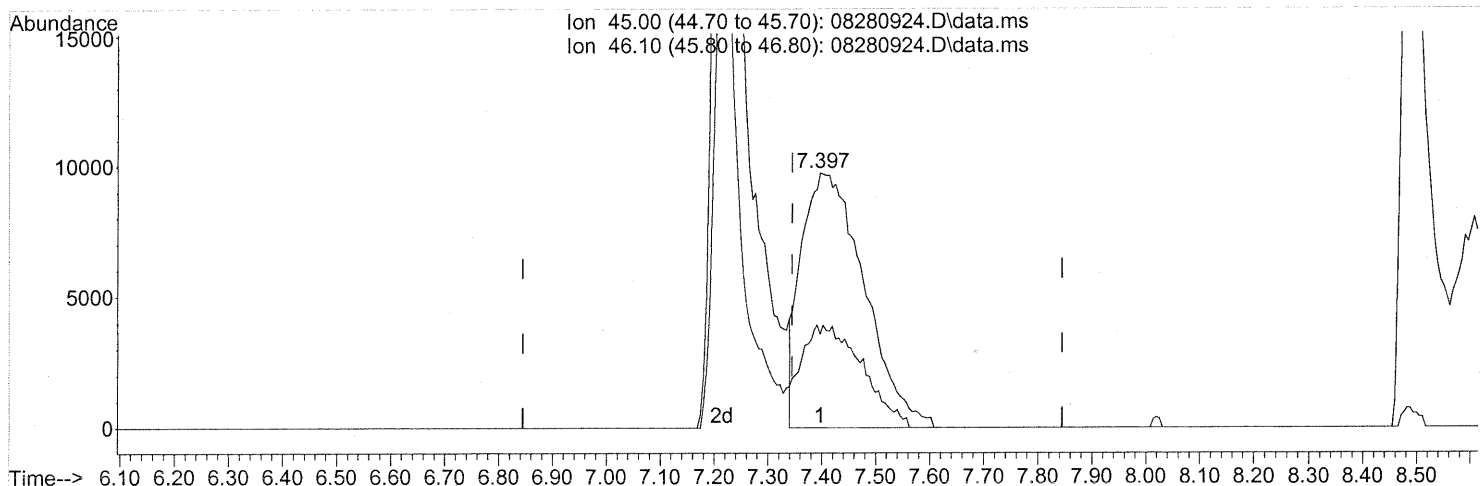
response 10495

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

(10) Ethanol (T)

7.397min (+0.052) 3.95ng

response 78905

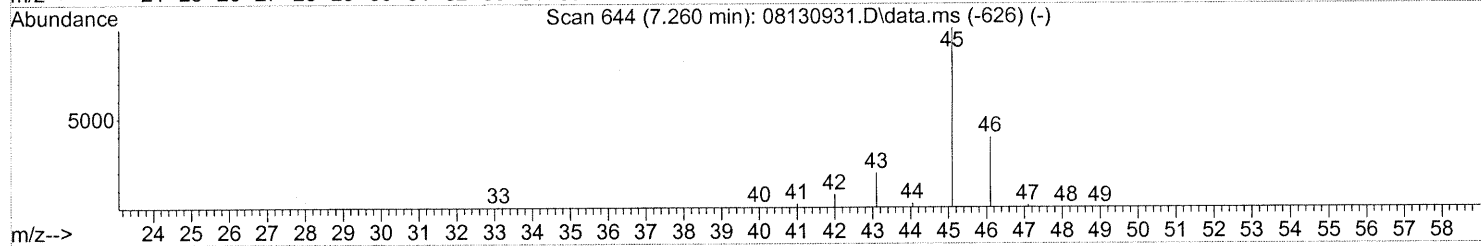
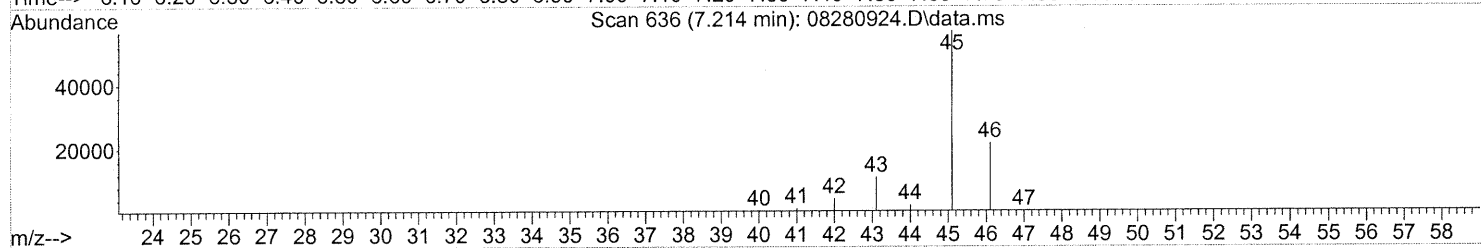
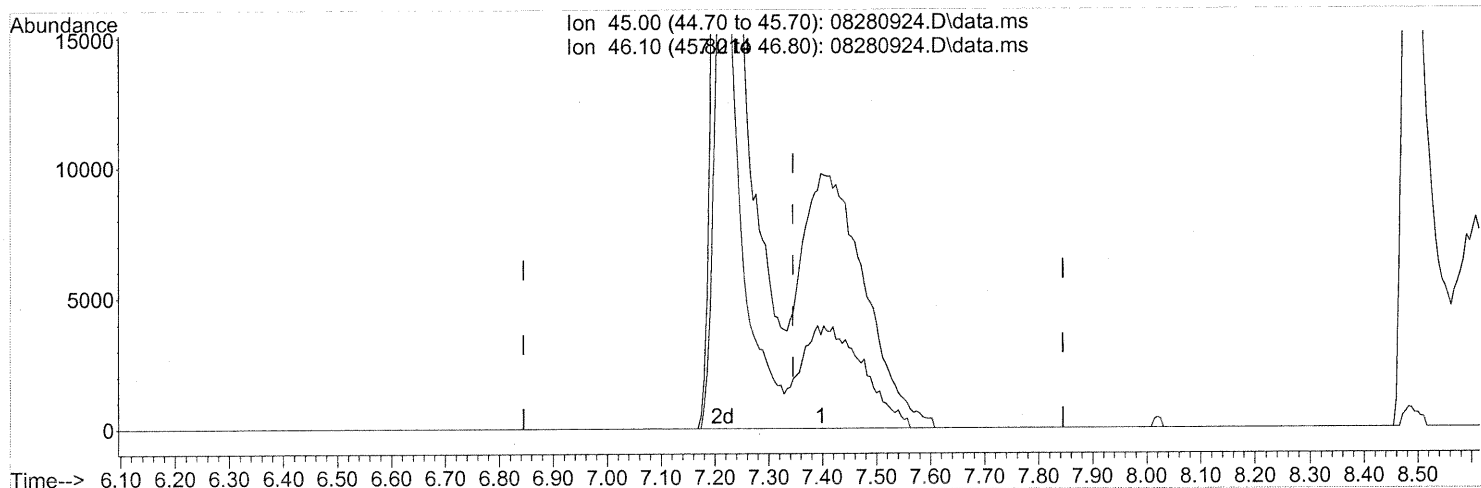
SP

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

(10) Ethanol (T)
 7.214min (-0.131) 12.80ng m
 response 256043

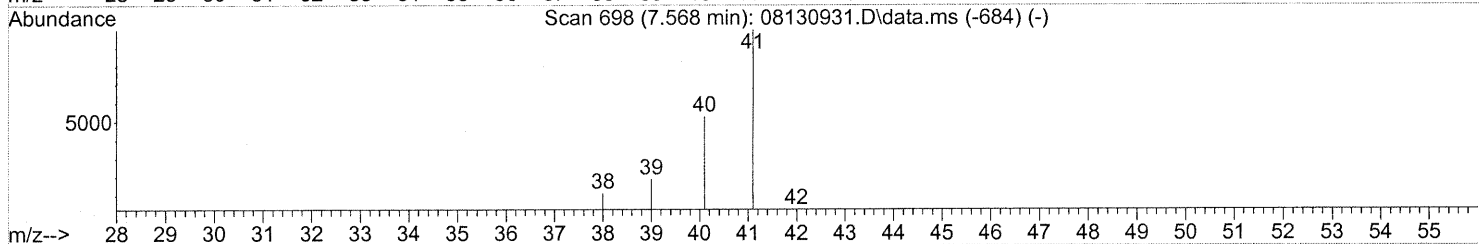
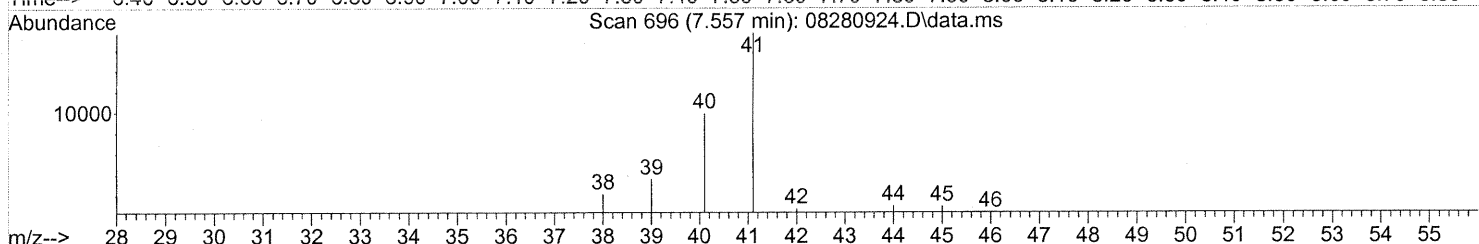
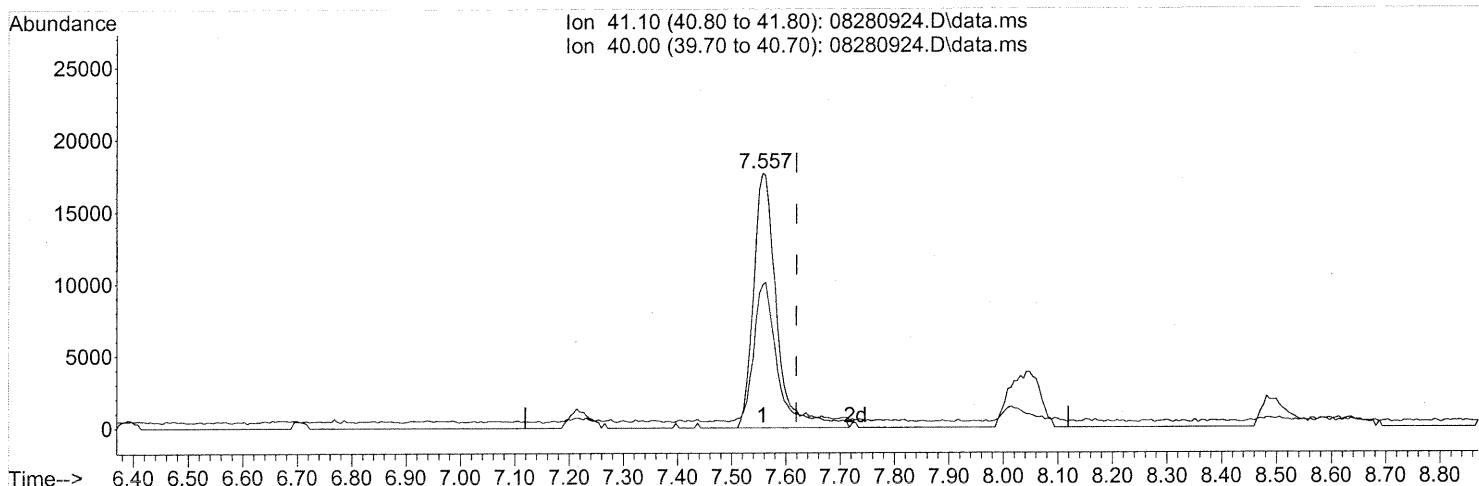
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	12.09#
0.00	0.00	0.00
0.00	0.00	0.00

SP → LC
Em 9/1/09
12/9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

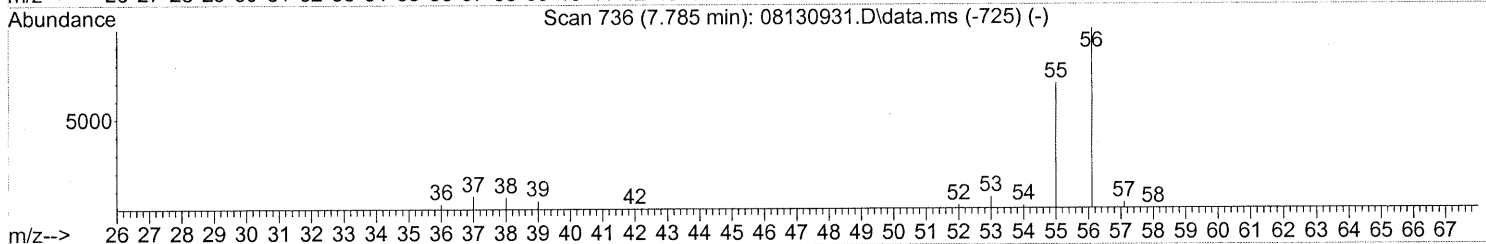
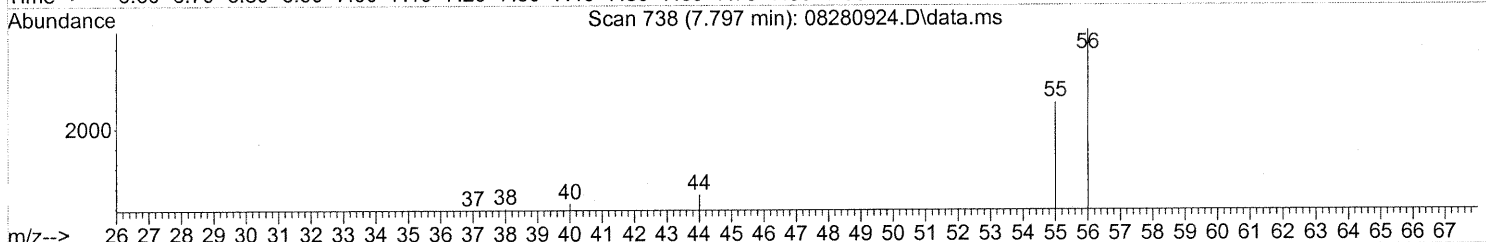
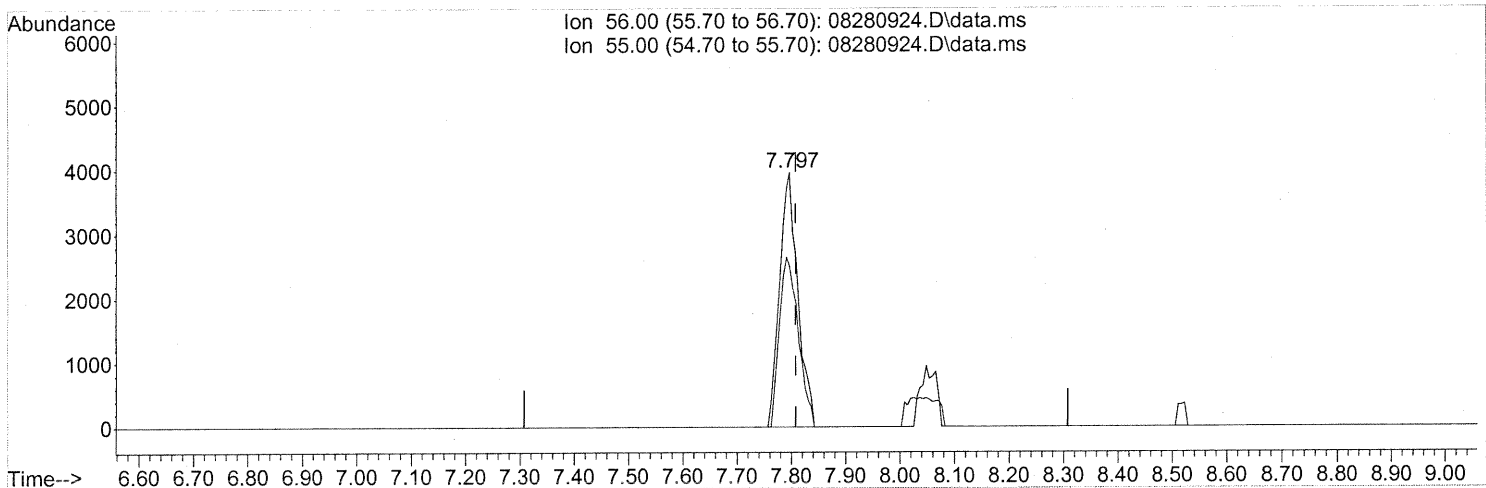
(11) Acetonitrile (T)
 7.557min (-0.063) 1.06ng
 response 51919

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	53.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

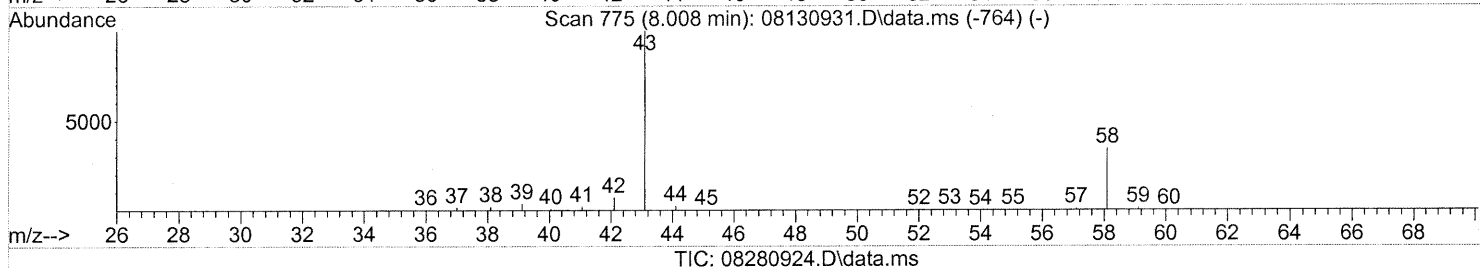
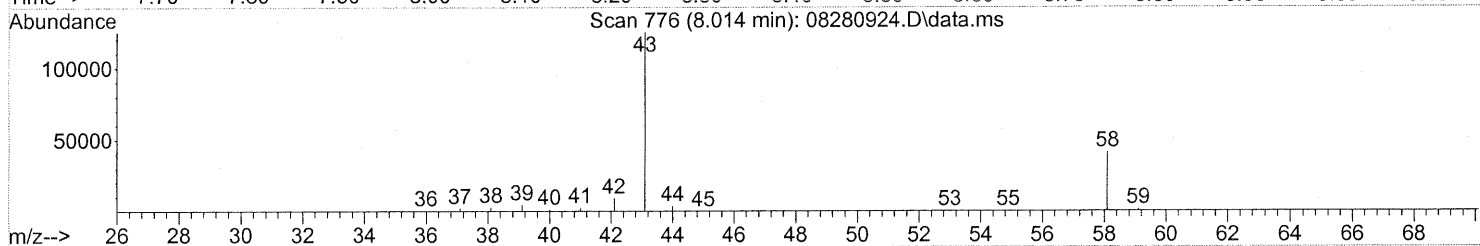
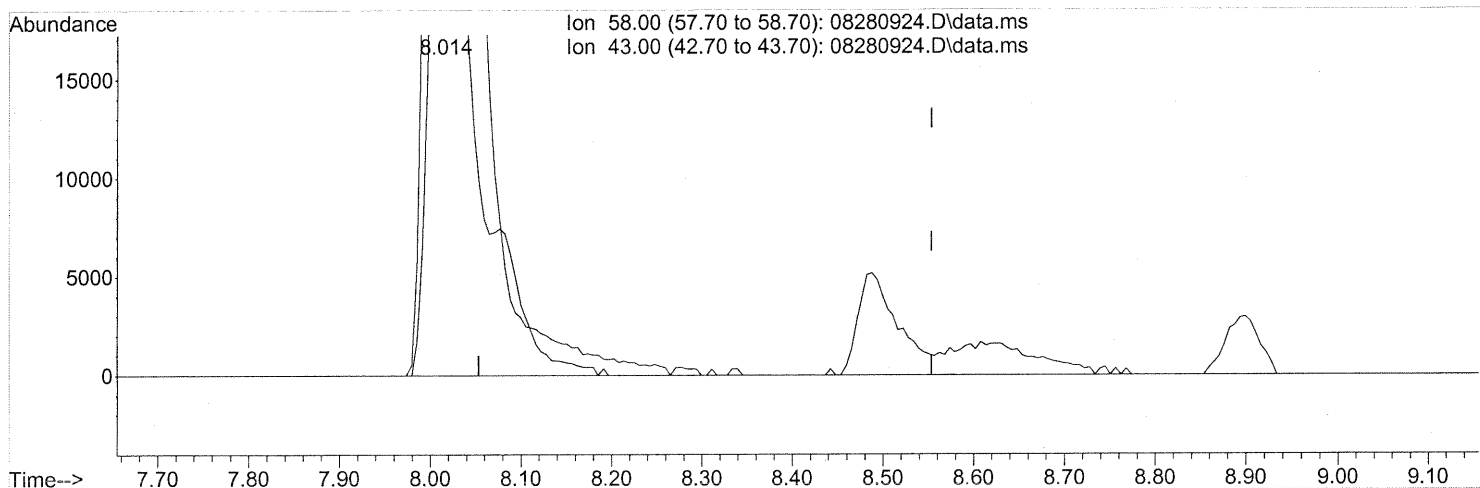
(12) Acrolein (T)
 7.797min (-0.011) 0.71ng
 response 9212

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	69.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280924.D
Acq On : 28 Aug 2009 22:24
Operator : EM
Sample : P0902899-003 (1000ml)
Misc : Env. H & E 102517
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



(13) Acetone (T)

8.014min (-0.040) 6.05ng

response 123118

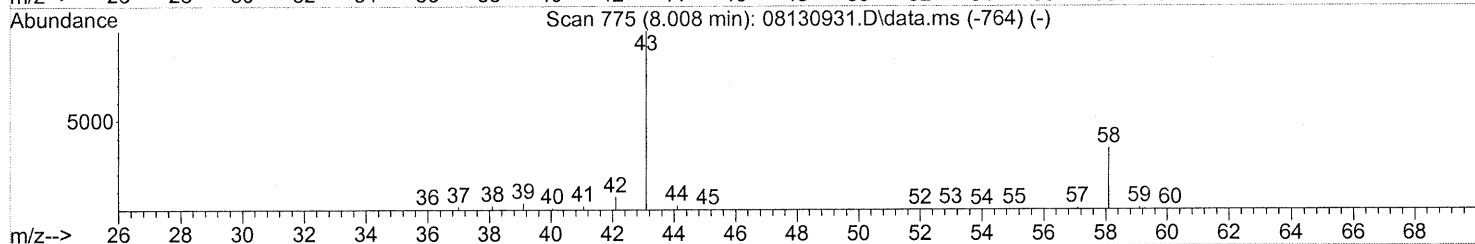
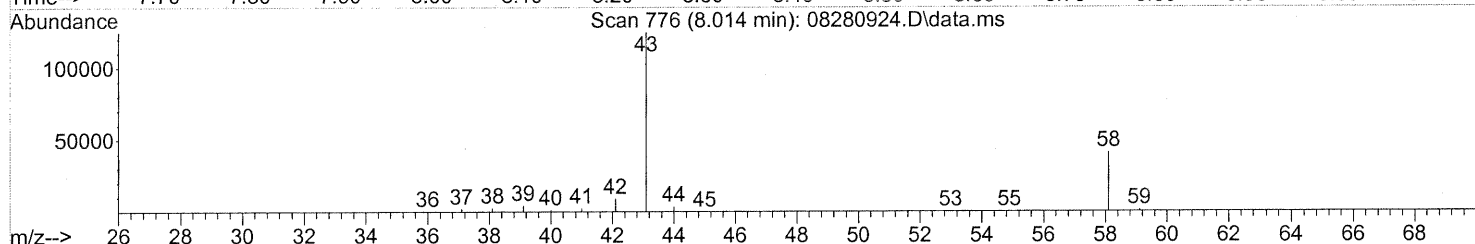
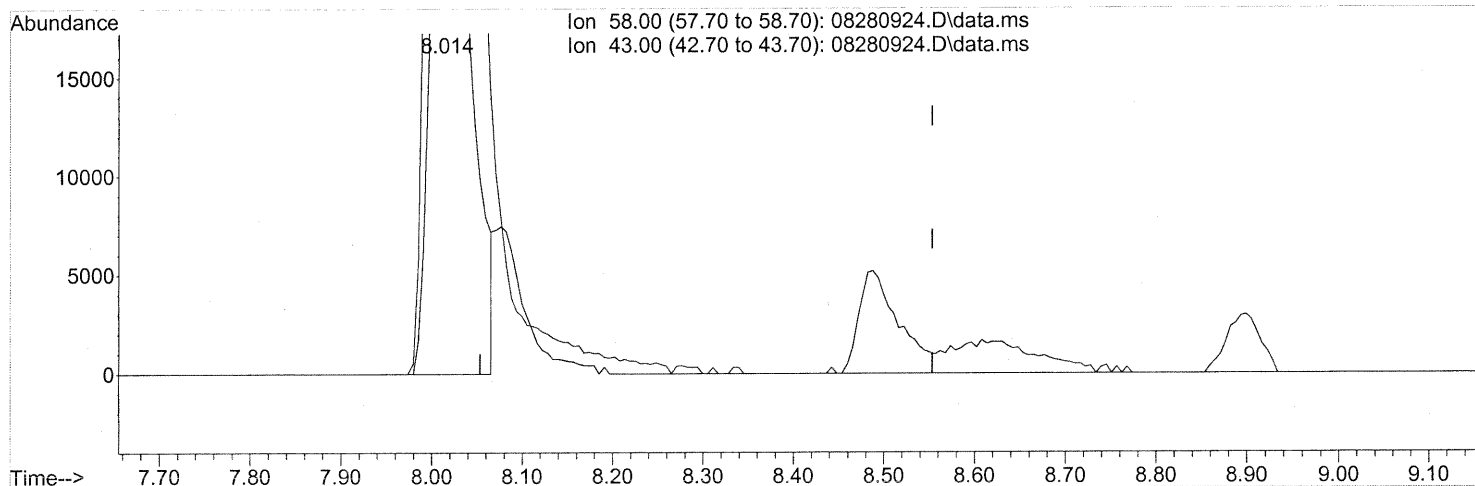
SH

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	282.66#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

(13) Acetone (T)
 8.014min (-0.040) 5.19ng m
 response 105644

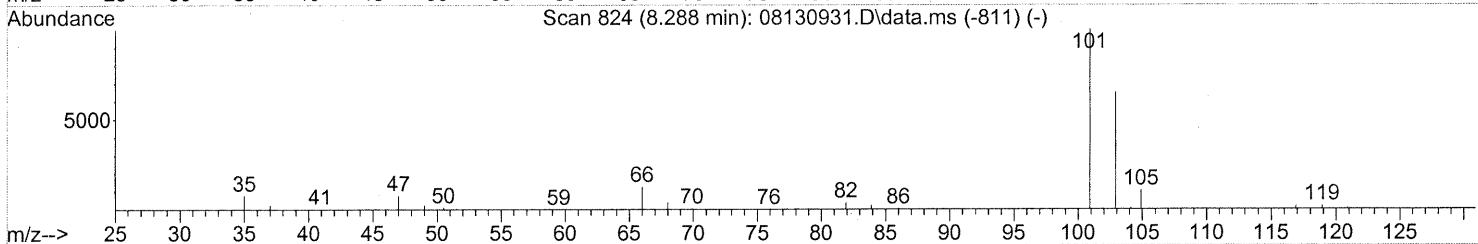
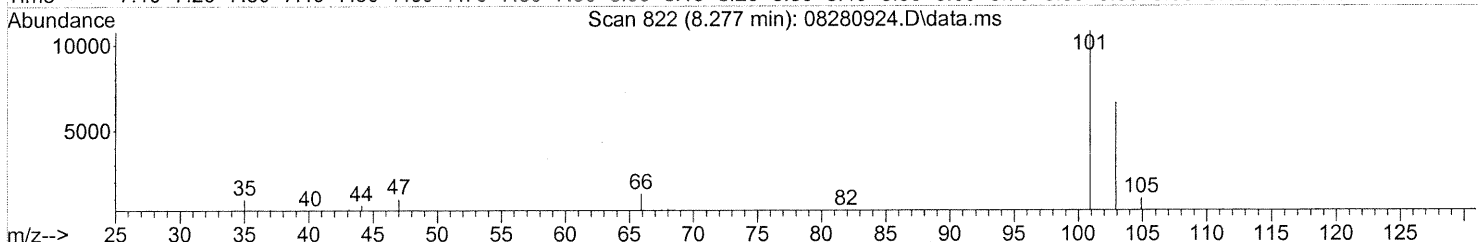
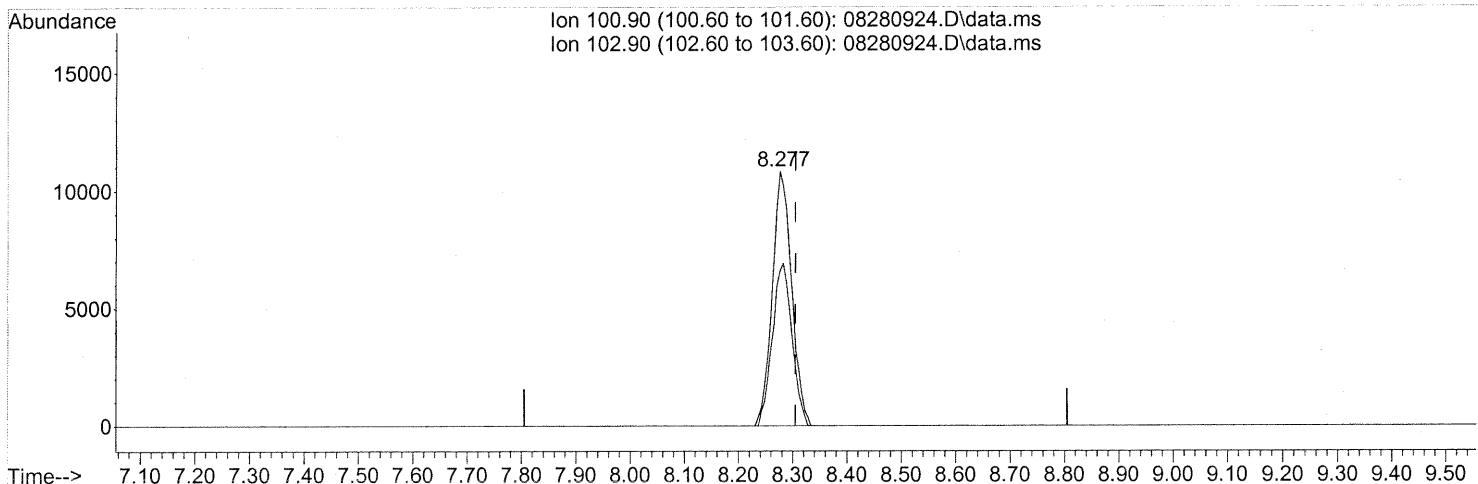
Ion	Exp%	Act%
58.00	100	100
43.00	317.70	329.41
0.00	0.00	0.00
0.00	0.00	0.00

SH → LC
com 9/1/09
12/9/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

(14) Trichlorofluoromethane (T)

8.277min (-0.028) 0.68ng

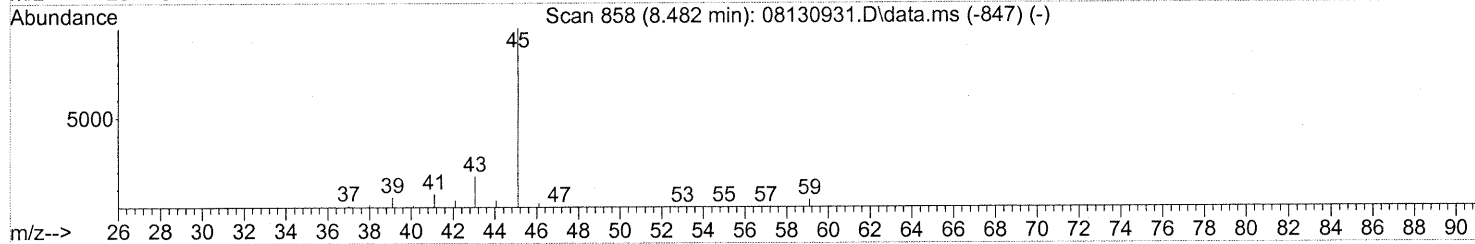
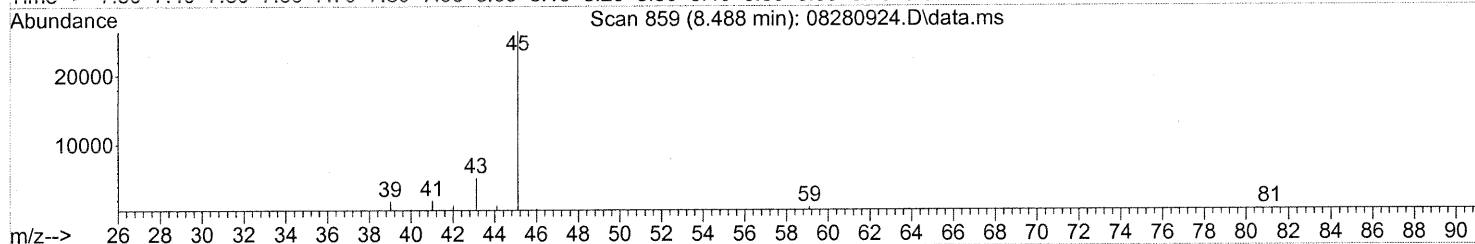
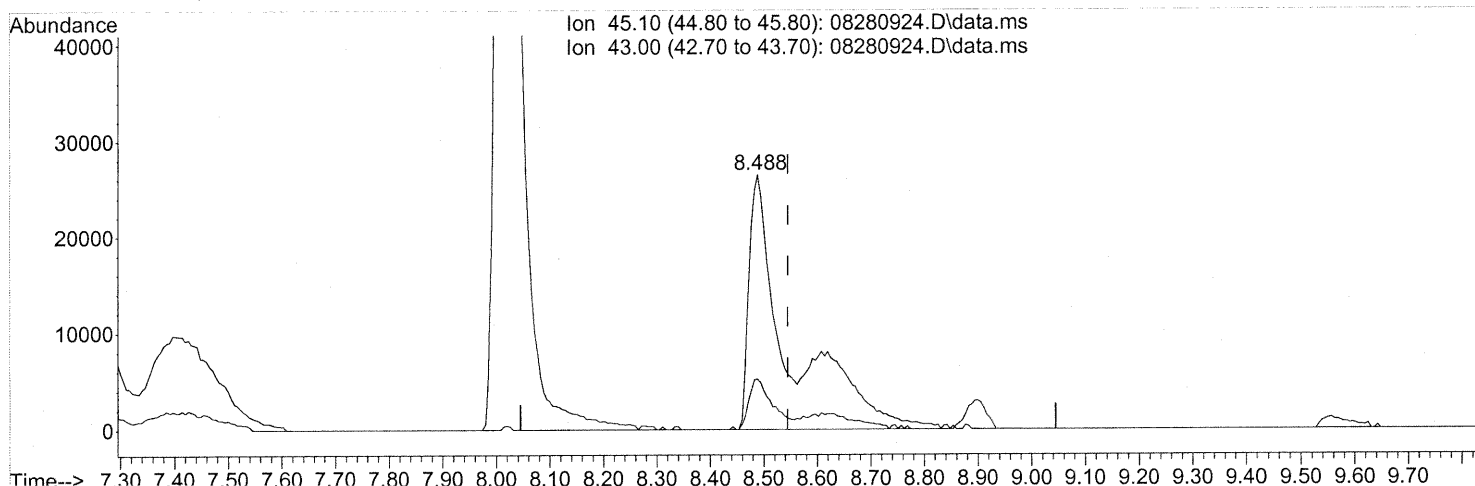
response 26653

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	64.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.488min (-0.057) 2.43ng

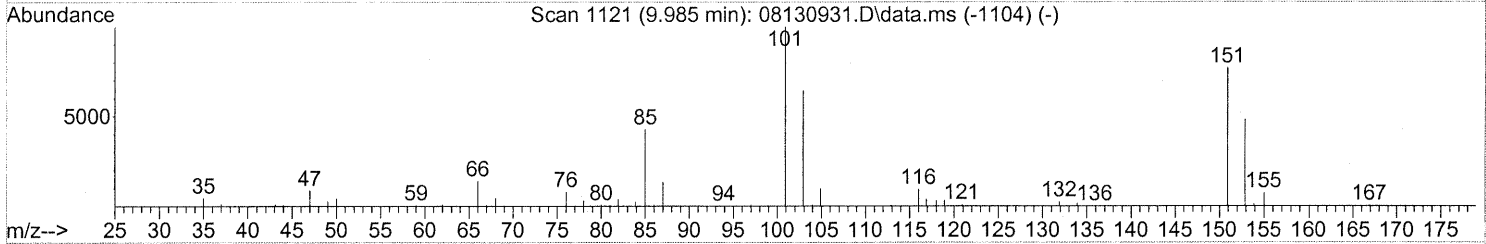
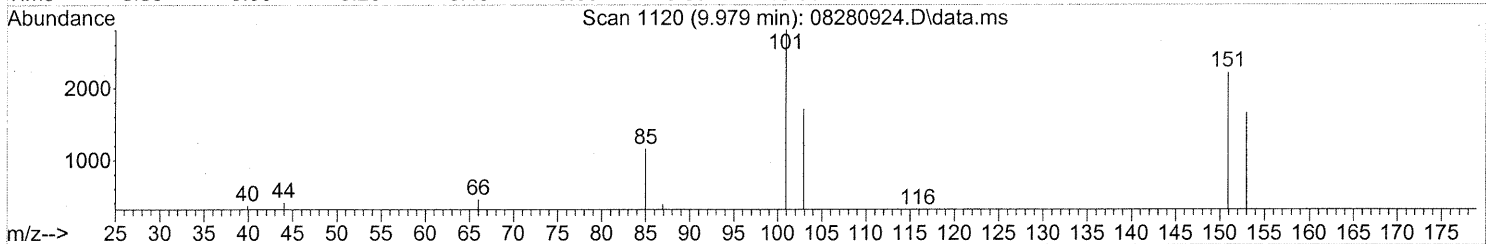
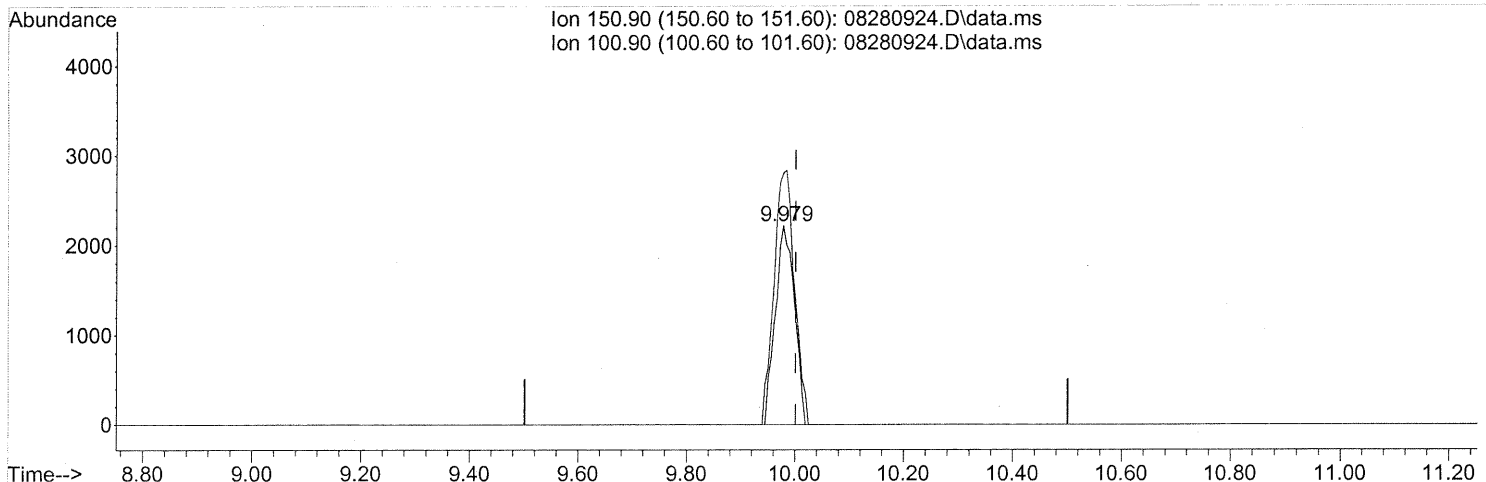
response 135467

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.979min (-0.023) 0.31ng

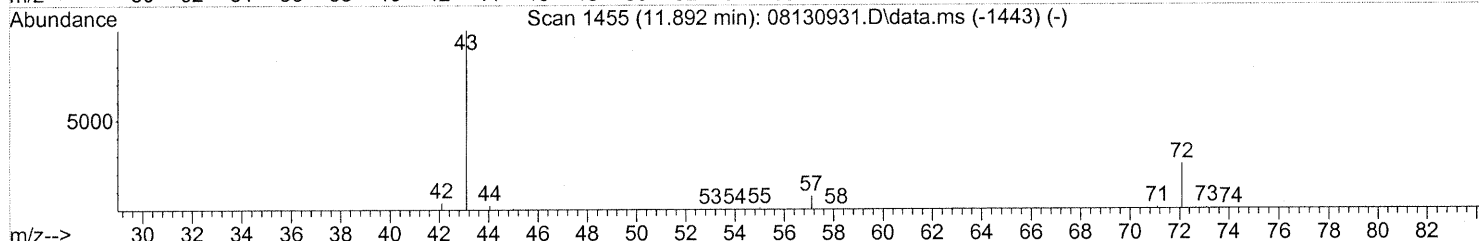
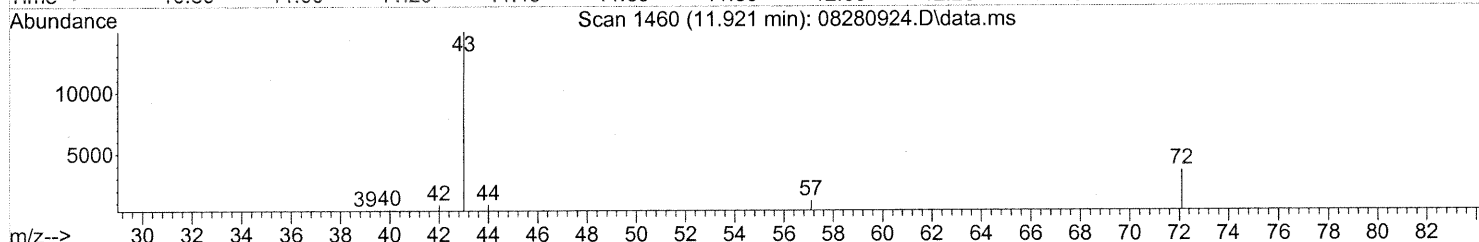
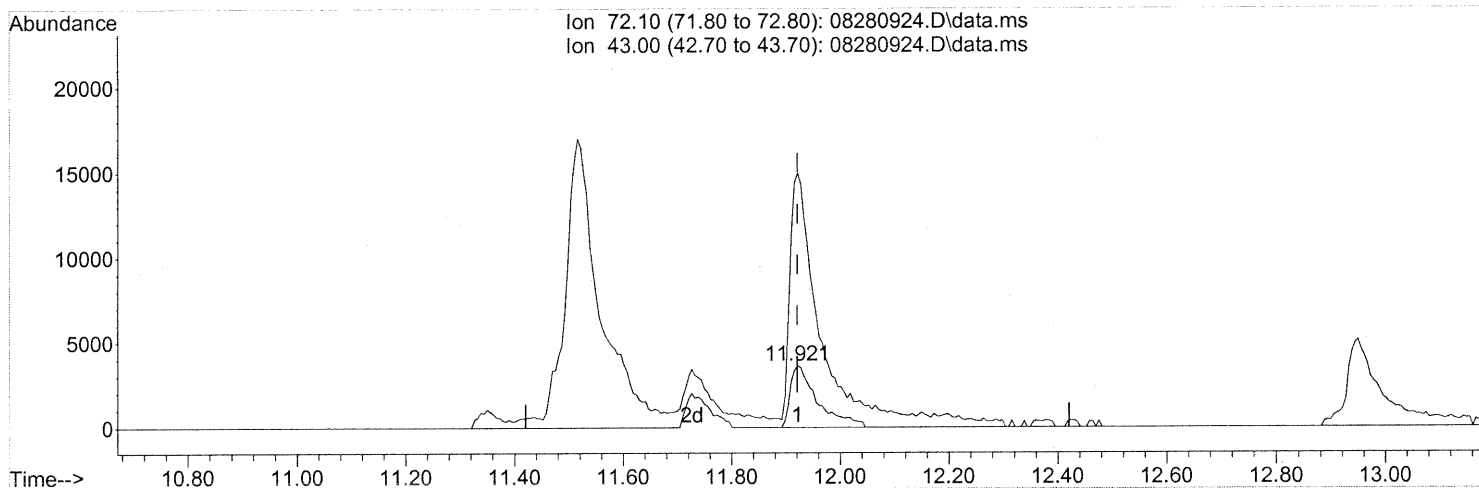
response 5420

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	137.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

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

11.921min (+0.000) 0.88ng

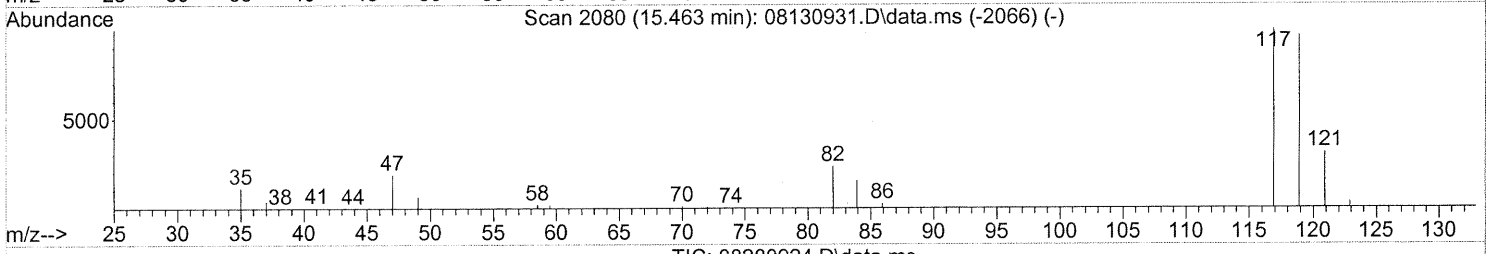
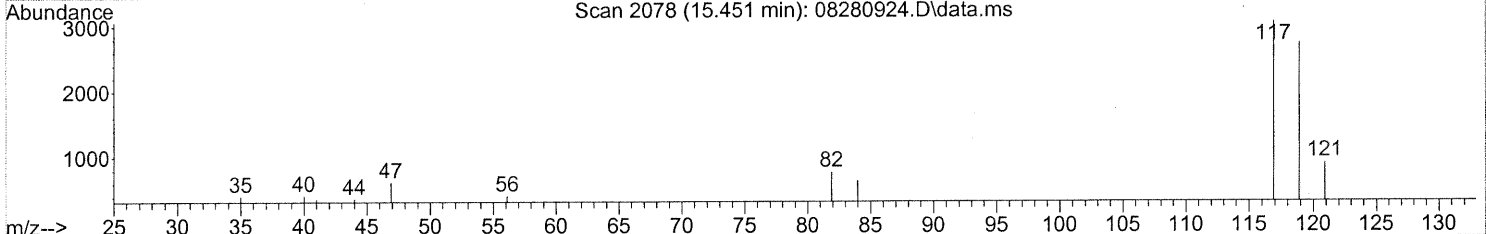
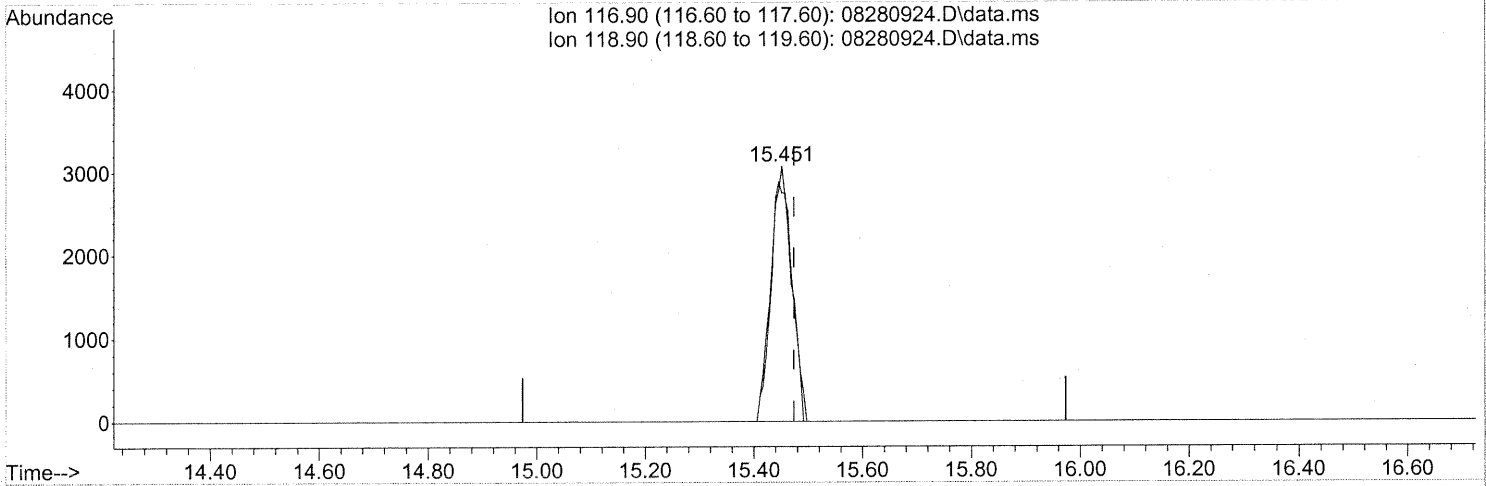
response 12471

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	498.06#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

(42) Carbon Tetrachloride (T)

15.451min (-0.023) 0.29ng

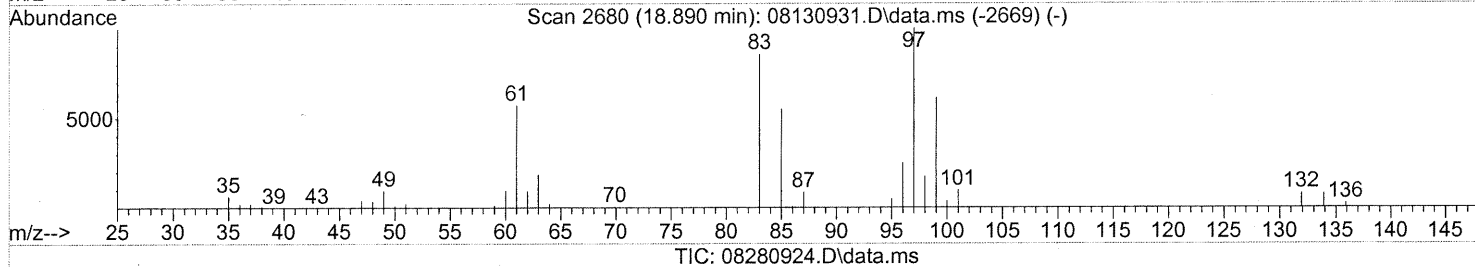
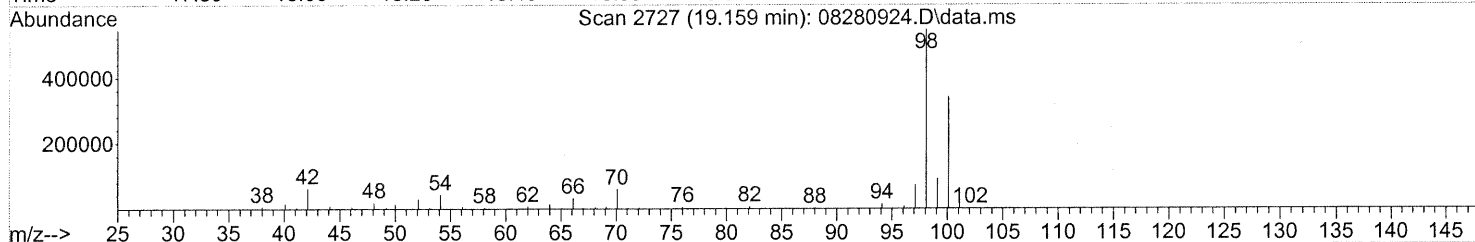
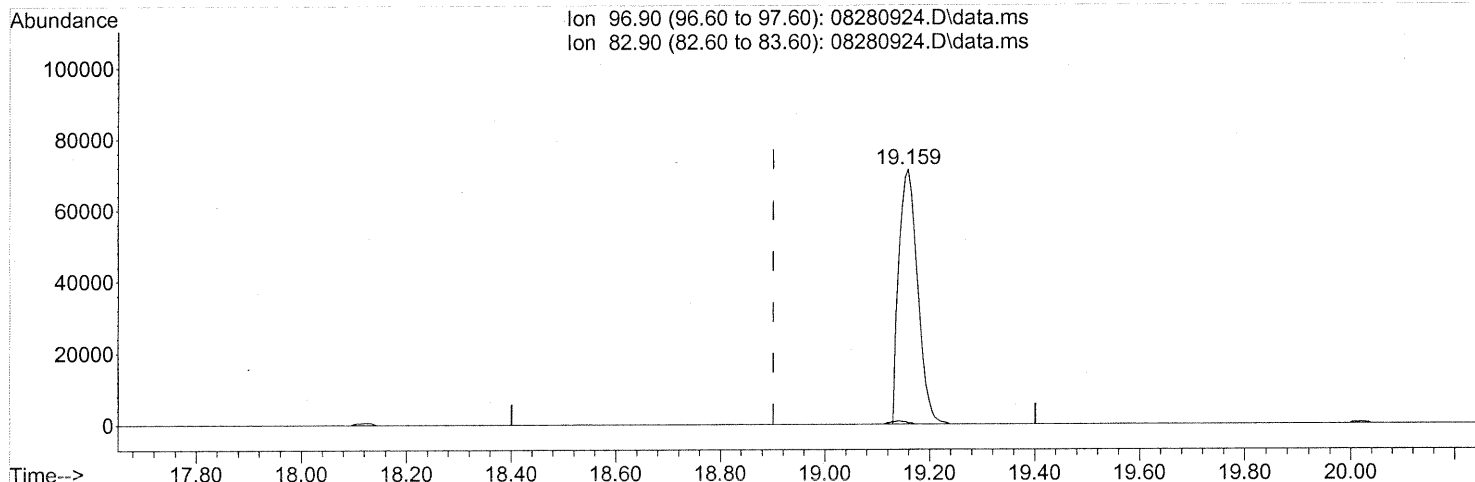
response 8117

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	97.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

19.159min (+0.257) 8.15ng

response 175399

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.00#
0.00	0.00	0.00
0.00	0.00	0.00

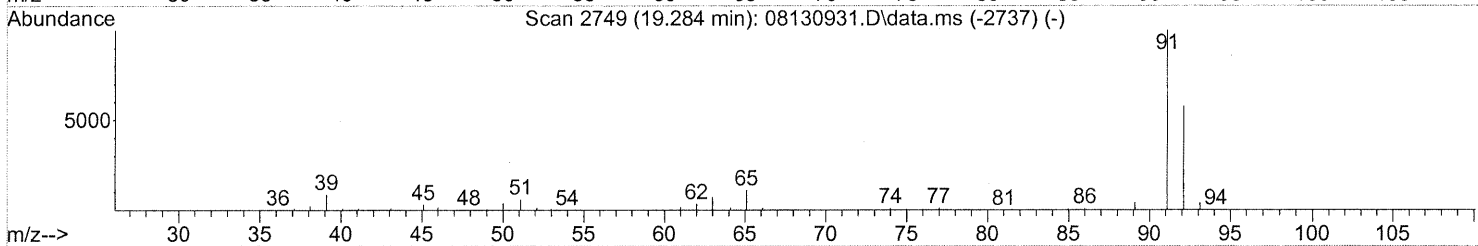
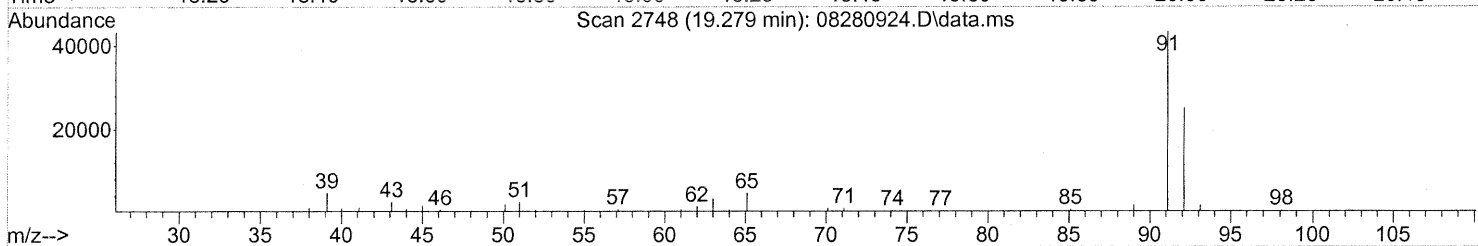
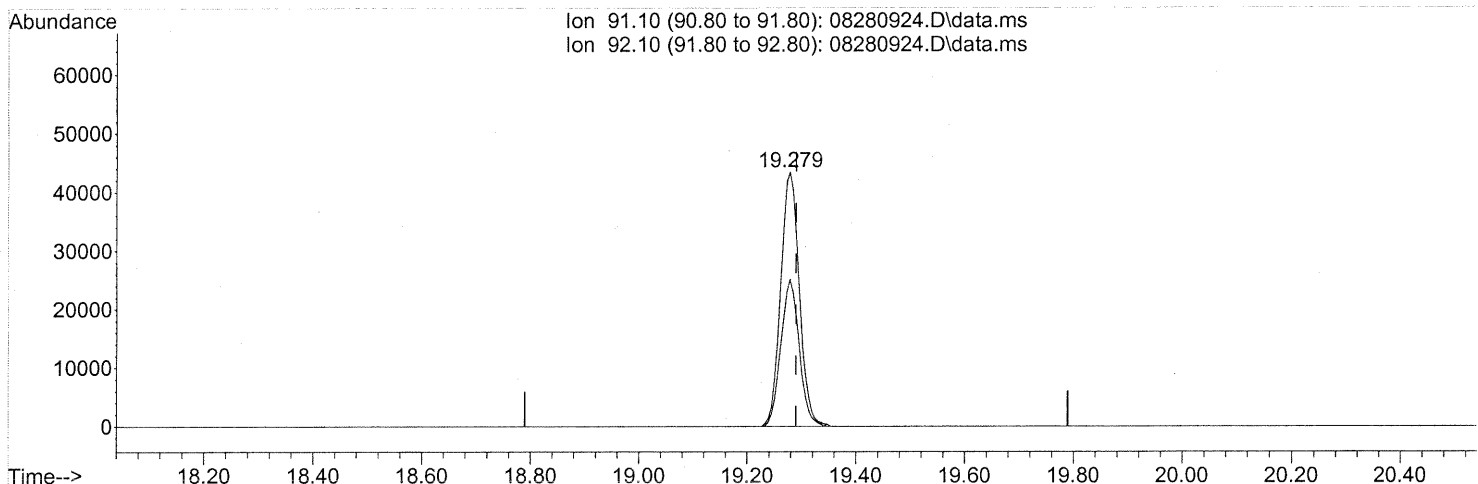
FP em 9/1/09

129/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(58) Toluene (T)

19.279min (-0.011) 0.97ng

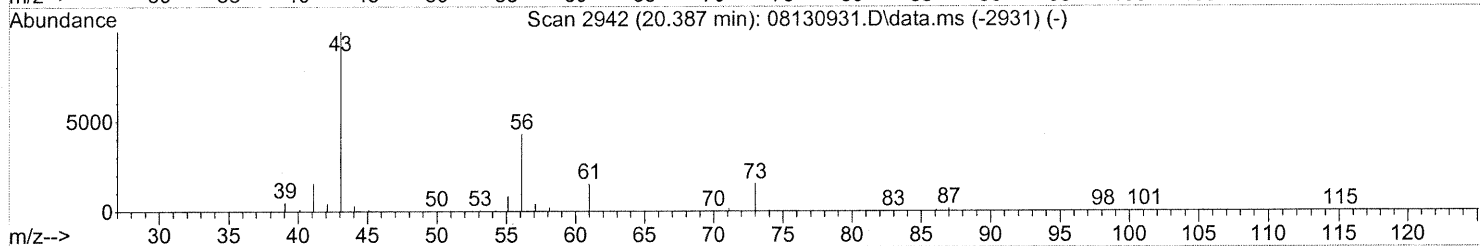
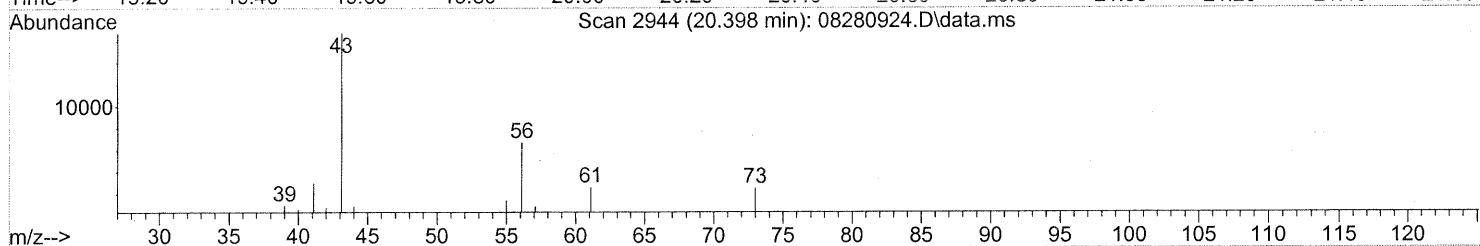
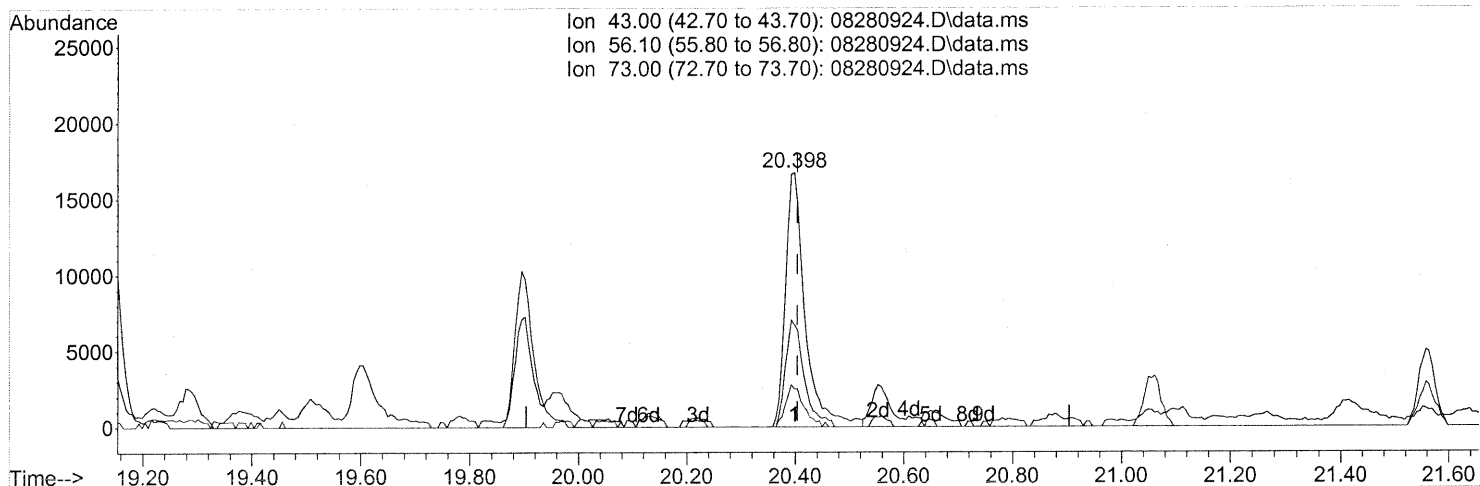
response 102414

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	56.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

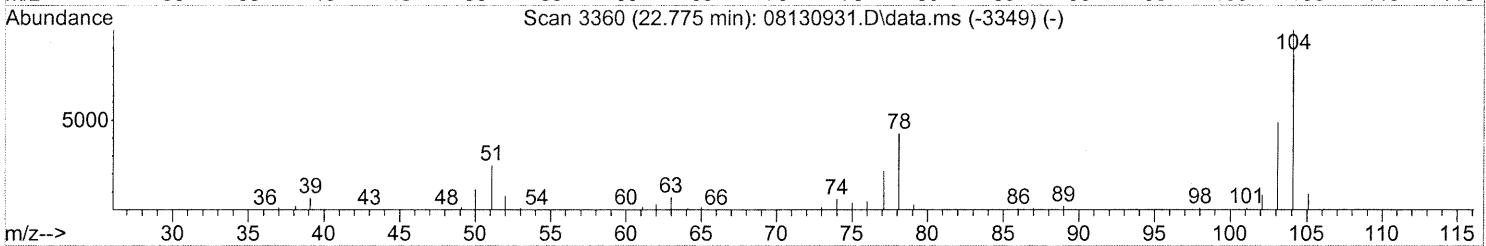
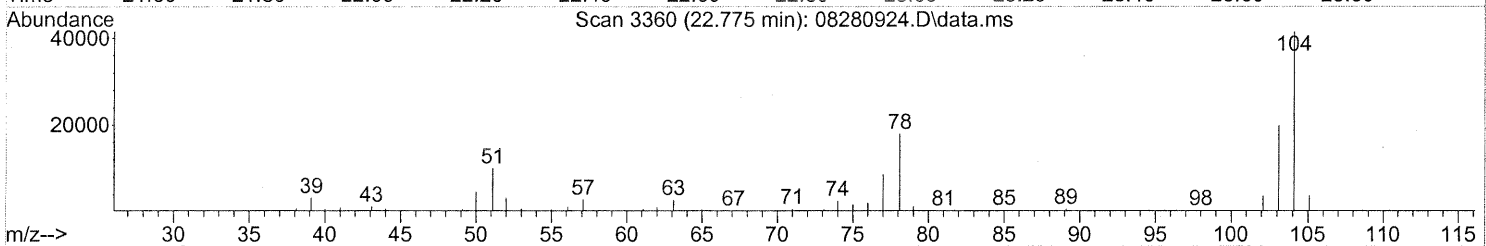
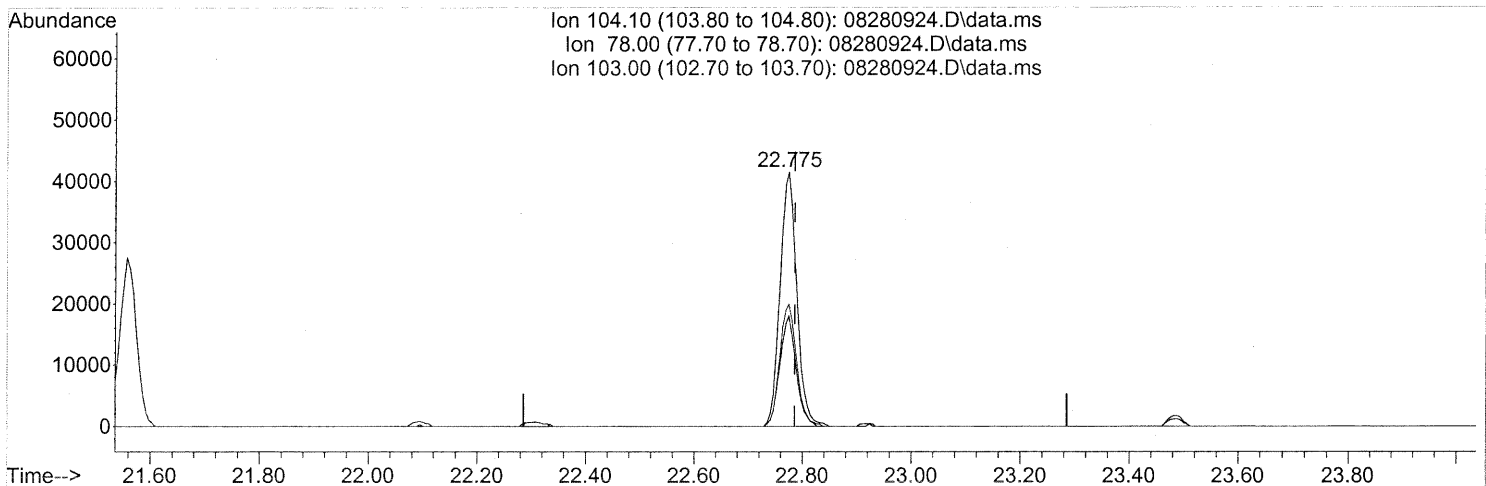
(62) n-Butyl Acetate (T)
 20.398min (-0.006) 0.70ng
 response 41794

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	39.71
73.00	16.90	15.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

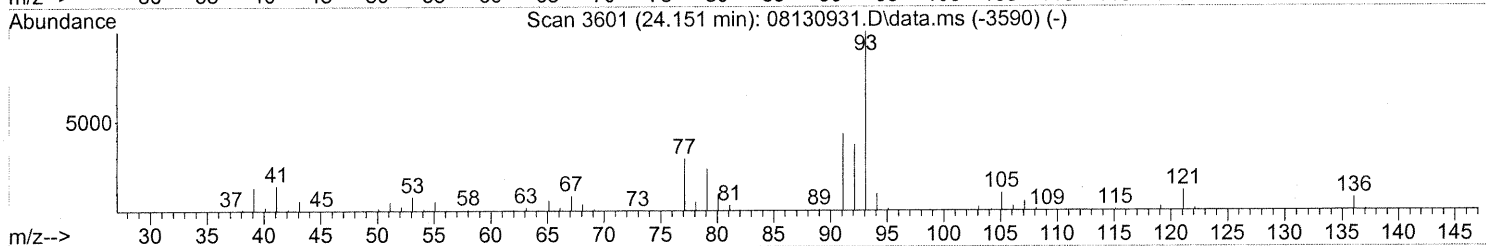
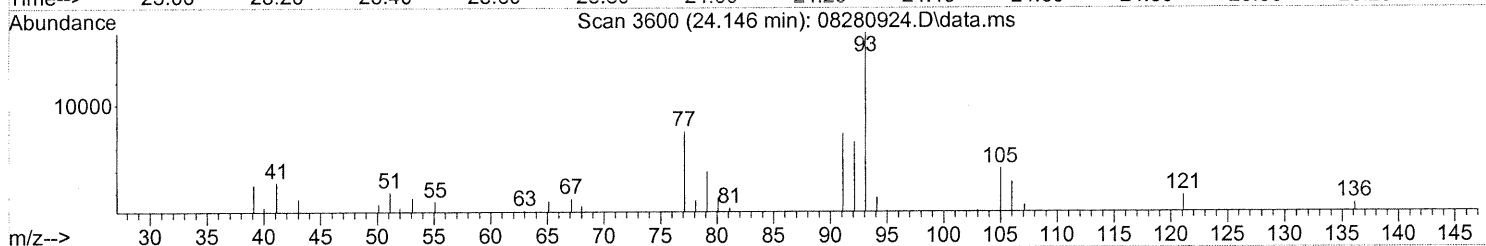
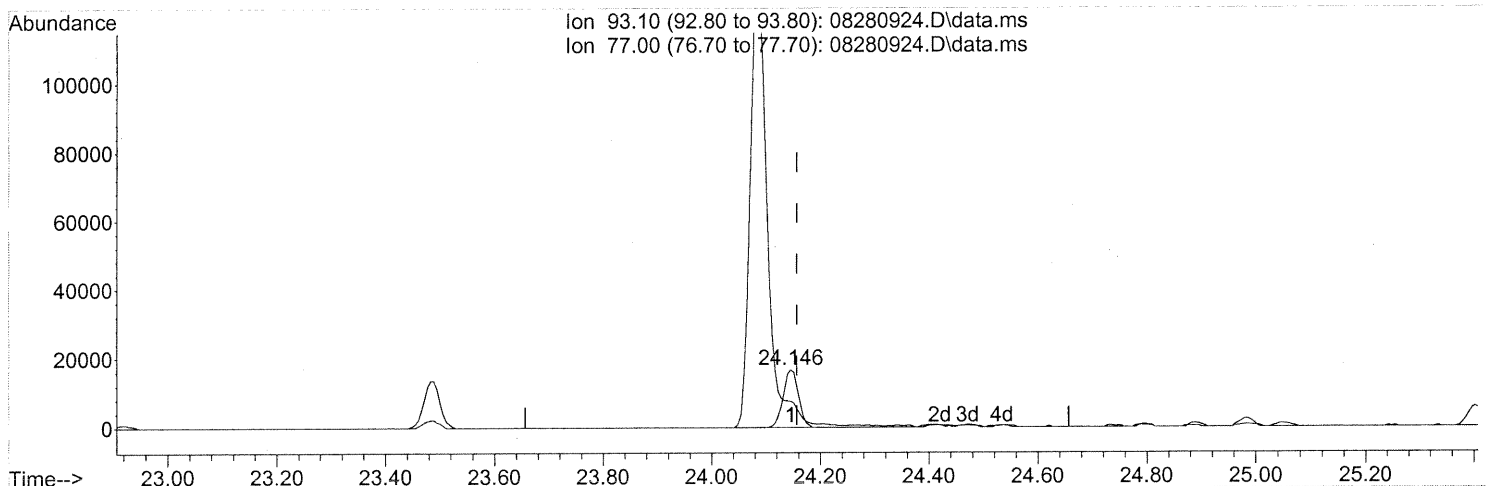
(69) Styrene (T)
 22.775min (-0.011) 1.32ng
 response 88479

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	42.18
103.00	48.70	48.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280924.D\data.ms

(75) alpha-Pinene (T)

24.146min (-0.011) 0.54ng

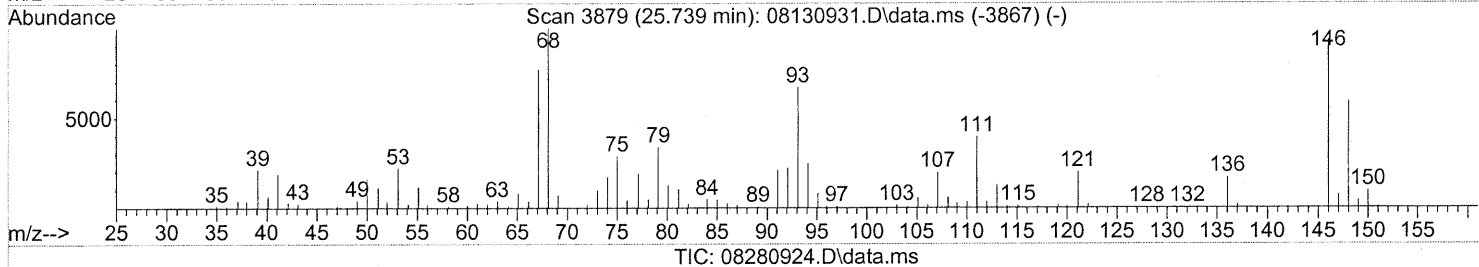
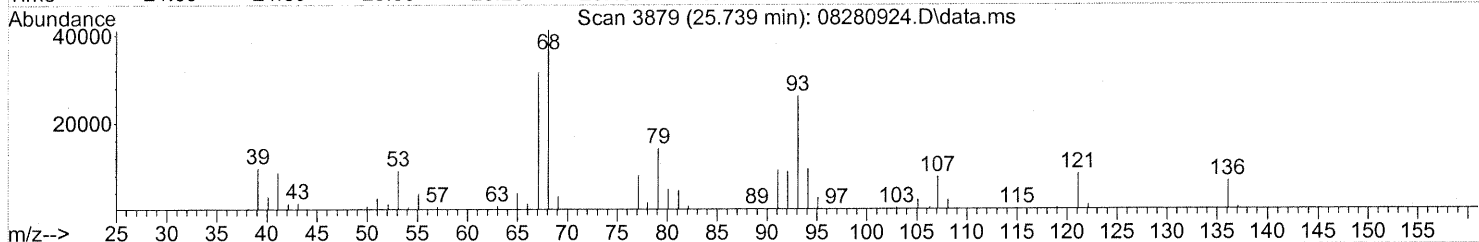
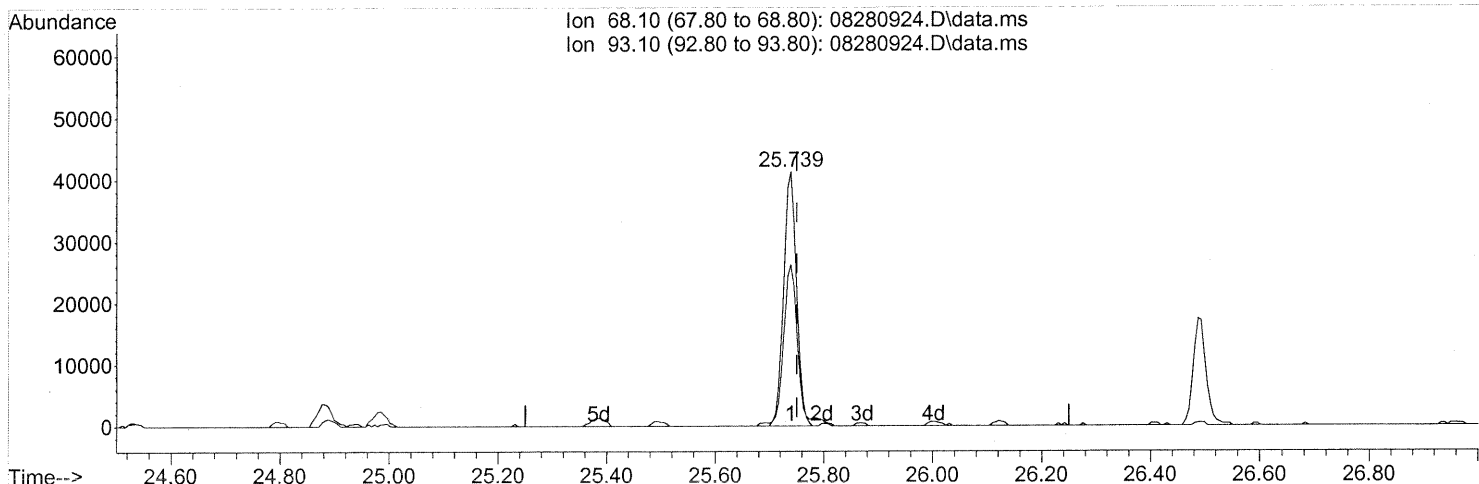
response 31636

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280924.D
 Acq On : 28 Aug 2009 22:24
 Operator : EM
 Sample : P0902899-003 (1000ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(91) d-Limonene (T)
 25.739min (-0.011) 1.71ng
 response 68224

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	69.94
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: 102518

Client Project ID: 16512

CAS Project ID: P0902899

CAS Sample ID: P0902899-004

Test Code: EPA TO-15

Date Collected: 8/20/09

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

Date Received: 8/21/09

Analyst: Elsa Moctezuma

Date Analyzed: 8/28 - 8/29/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.10 Liter(s)

Container ID: AC01011

Initial Pressure (psig): -1.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	38	0.67	22	0.39	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.67	0.50	0.13	
74-87-3	Chloromethane	0.90	0.13	0.43	0.064	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	ND	0.095	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.052	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.060	
74-83-9	Bromomethane	ND	0.13	ND	0.034	
75-00-3	Chloroethane	ND	0.13	ND	0.050	
64-17-5	Ethanol	1,400	6.7	750	3.5	D
75-05-8	Acetonitrile	140	0.67	81	0.40	
107-02-8	Acrolein	5.7	0.67	2.5	0.29	
67-64-1	Acetone	130	6.7	57	2.8	
75-69-4	Trichlorofluoromethane	2.0	0.13	0.36	0.024	
67-63-0	2-Propanol (Isopropyl Alcohol)	200	0.67	81	0.27	
107-13-1	Acrylonitrile	ND	0.67	ND	0.31	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.034	
75-09-2	Methylene Chloride	0.69	0.67	0.20	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.043	
76-13-1	Trichlorotrifluoroethane	0.52	0.13	0.068	0.017	
75-15-0	Carbon Disulfide	4.9	0.67	1.6	0.21	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.037	
108-05-4	Vinyl Acetate	7.1	6.7	2.0	1.9	
78-93-3	2-Butanone (MEK)	28	0.67	9.6	0.23	

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

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

D = The reported result is from a dilution.

Verified By: RIS

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: 102518
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01011

CAS Project ID: P0902899
 CAS Sample ID: P0902899-004

Date Collected: 8/20/09
 Date Received: 8/21/09
 Date Analyzed: 8/28 - 8/29/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -1.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.33

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	0.034	
141-78-6	Ethyl Acetate	56	1.3	15	0.37	
110-54-3	n-Hexane	1.0	0.67	0.28	0.19	
67-66-3	Chloroform	1.5	0.13	0.31	0.027	
109-99-9	Tetrahydrofuran (THF)	13	0.67	4.5	0.23	
107-06-2	1,2-Dichloroethane	5.4	0.13	1.3	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.024	
71-43-2	Benzene	1.6	0.13	0.50	0.042	
56-23-5	Carbon Tetrachloride	0.83	0.13	0.13	0.021	
110-82-7	Cyclohexane	ND	0.67	ND	0.19	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.029	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.020	
79-01-6	Trichloroethene	ND	0.13	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.67	ND	0.18	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.32	
142-82-5	n-Heptane	1.4	0.67	0.35	0.16	
10061-01-5	cis-1,3-Dichloropropene	4.3	0.67	0.95	0.15	
108-10-1	4-Methyl-2-pentanone	1.2	0.67	0.30	0.16	
10061-02-6	trans-1,3-Dichloropropene	3.5	0.67	0.77	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.024	
108-88-3	Toluene	12	0.67	3.2	0.18	
591-78-6	2-Hexanone	1.2	0.67	0.29	0.16	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.016	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	6.6	0.67	1.4	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: 9/10/09 **149**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102518
Client Project ID: 16512

CAS Project ID: P0902899
 CAS Sample ID: P0902899-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01011

Date Collected: 8/20/09
Date Received: 8/21/09
Date Analyzed: 8/28 - 8/29/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -1.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.1	0.67	0.24	0.14	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.020	
108-90-7	Chlorobenzene	ND	0.13	ND	0.029	
100-41-4	Ethylbenzene	1.4	0.67	0.32	0.15	
179601-23-1	m,p-Xylenes	2.1	0.67	0.47	0.15	
75-25-2	Bromoform	ND	0.67	ND	0.064	
100-42-5	Styrene	2.5	0.67	0.58	0.16	
95-47-6	o-Xylene	0.84	0.67	0.19	0.15	
111-84-2	n-Nonane	0.87	0.67	0.17	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.019	
98-82-8	Cumene	ND	0.67	ND	0.14	
80-56-8	alpha-Pinene	110	0.67	19	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.67	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	ND	0.67	ND	0.14	
95-63-6	1,2,4-Trimethylbenzene	0.89	0.67	0.18	0.14	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.022	
106-46-7	1,4-Dichlorobenzene	0.21	0.13	0.035	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.022	
5989-27-5	d-Limonene	56	0.67	10	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.67	ND	0.069	
120-82-1	1,2,4-Trichlorobenzene	ND	0.67	ND	0.090	
91-20-3	Naphthalene	0.89	0.67	0.17	0.13	
87-68-3	Hexachlorobutadiene	ND	0.67	ND	0.062	

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.

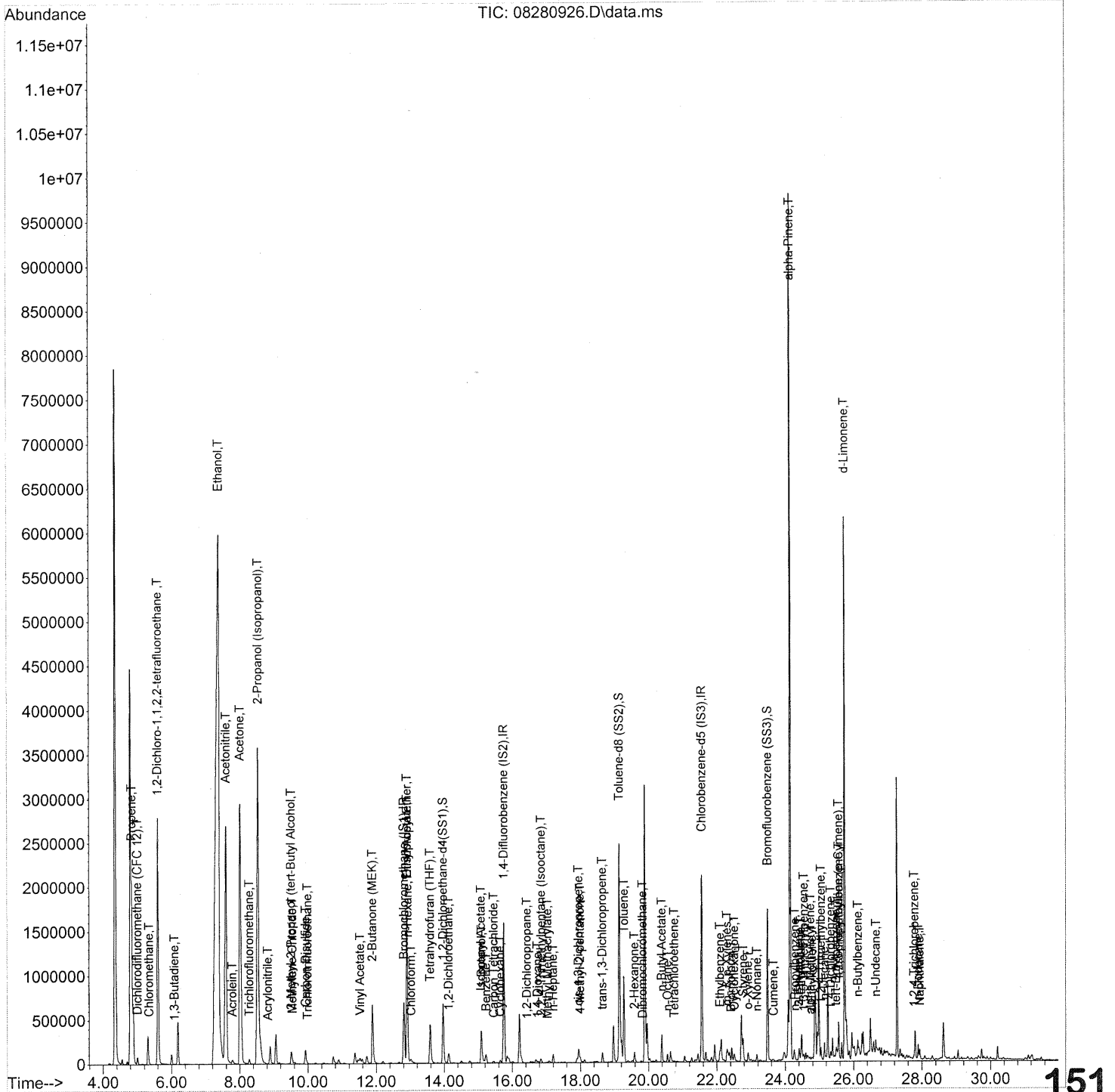
Verified By: Rg

Date: 9/2/09

150

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:06:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:06:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	364509	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1854098	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	901008	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	659202	25.577	ng	-0.02 ✓
Spiked Amount	25.000					Recovery = 102.32%
57) Toluene-d8 (SS2)	19.15	98	2146276	25.057	ng	-0.01 ✓
Spiked Amount	25.000					Recovery = 100.24%
73) Bromofluorobenzene (SS3)	23.49	174	610511	25.168	ng	0.00 ✓
Spiked Amount	25.000					Recovery = 100.68%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	905429	28.317	ng	94
3) Dichlorodifluoromethan...	5.00	85	85427	1.872	ng	99
4) Chloromethane	5.34	50	28707	0.675	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1453	0.060	ng	# 55
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.08	54	2414	0.081	ng	# 78
8) Bromomethane	6.57	94	913	N.D.		
9) Chloroethane	6.92	64	368	N.D.		
10) Ethanol	7.39	45	23405721	1166.947	ng	See Dil 99
11) Acetonitrile	7.60	41	5027148	102.702	ng	99
12) Acrolein	7.79	56	55961	4.278	ng	98
13) Acetone	8.01	58	2071240	101.480	ng	92
14) Trichlorofluoromethane	8.28	101	59225	1.517	ng	98
15) 2-Propanol (Isopropanol)	8.54	45	8384684	150.006	ng	94
16) Acrylonitrile	8.82	53	3444	0.116	ng	86
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.50	59	41310	0.728	ng	# 1
19) Methylene Chloride	9.54	84	13251	0.520	ng	85
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.98	151	6873	0.393	ng	98
22) Carbon Disulfide	9.93	76	328452	3.655	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.38	73	1167	N.D.		
26) Vinyl Acetate	11.53	86	23448	5.304	ng	# 43
27) 2-Butanone (MEK)	11.89	72	302654	21.270	ng	# 83
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.90	87	6793	0.336	ng	# 1
30) Ethyl Acetate	12.90	61	386091	41.842	ng	93
31) n-Hexane	12.92	57	33717	0.750	ng	95

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:06:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	42902	1.140 ng		99
34) Tetrahydrofuran (THF)	13.58	72	148459	10.035 ng	#	65
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	116280	4.037 ng		99
38) 1,1,1-Trichloroethane	14.53	97	1336	N.D.		
39) Isopropyl Acetate	15.08	61	6778	0.448 ng	#	1
40) 1-Butanol	15.09	56	320069	13.321 ng		83
41) Benzene	15.23	78	118579	1.189 ng		98
42) Carbon Tetrachloride	15.46	117	17433	0.625 ng		98
43) Cyclohexane	15.65	84	15794	0.409 ng	#	80
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.43	63	1796	0.073 ng		98
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.78	130	233	N.D.		
48) 1,4-Dioxane	16.74	88	2508	0.141 ng		74
49) 2,2,4-Trimethylpentane...	16.85	57	30605	0.267 ng		79
50) Methyl Methacrylate	17.03	100	1155	0.116 ng	#	46
51) n-Heptane	17.20	71	28607	1.078 ng		93
52) cis-1,3-Dichloropropene	17.95	75	119529	3.243 ng		99
53) 4-Methyl-2-pentanone	17.99	58	19921	0.925 ng		97
54) trans-1,3-Dichloropropene	18.64	75	84442	2.619 ng		100
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	19.28	91	939065	9.044 ng		100
59) 2-Hexanone	19.59	43	47934	0.888 ng		90
60) Dibromochloromethane	19.83	129	2156	0.097 ng		90
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	290032	4.926 ng		98
63) n-Octane	20.56	57	19279	0.833 ng		91
64) Tetrachloroethene	20.75	166	2243	0.087 ng		99
65) Chlorobenzene	21.65	112	2714	N.D.		
66) Ethylbenzene	22.09	91	116849	1.042 ng		98
67) m- & p-Xylenes	22.30	91	137052	1.542 ng		98
68) Bromoform	22.42	173	1087	0.056 ng	#	43
69) Styrene	22.77	104	122923	1.871 ng		99
70) o-Xylene	22.92	91	56308	0.630 ng		98
71) n-Nonane	23.17	43	35376	0.657 ng		92
72) 1,1,2,2-Tetrachloroethane	22.91	83	794	N.D.		
74) Cumene	23.66	105	10121	0.087 ng		94
75) alpha-Pinene	24.15	93	4555587	79.650 ng		99
76) n-Propylbenzene	24.28	91	28178	0.197 ng	#	63
77) 3-Ethyltoluene	24.40	105	47510	0.437 ng		95
78) 4-Ethyltoluene	24.46	105	28469	0.261 ng		85
79) 1,3,5-Trimethylbenzene	24.55	105	20783	0.230 ng		97

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Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:06:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

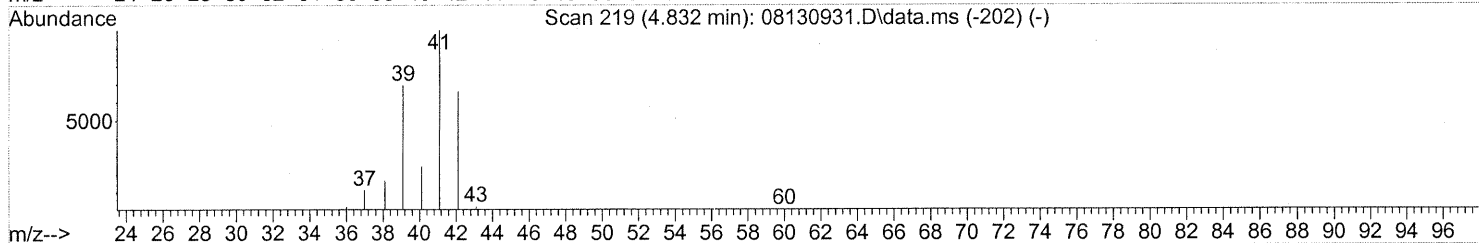
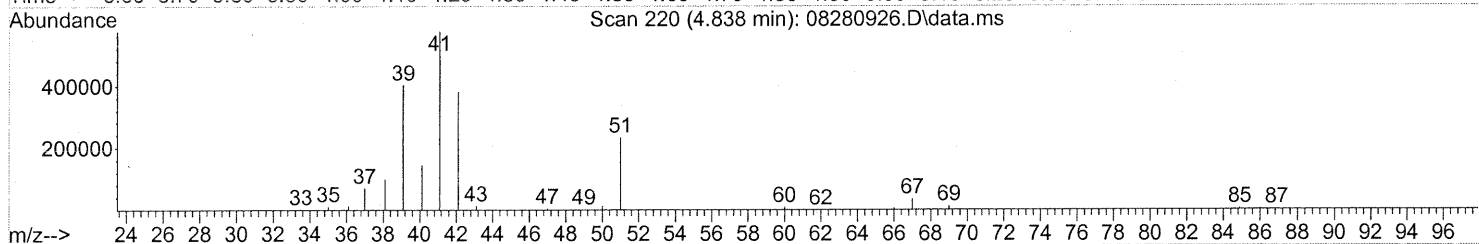
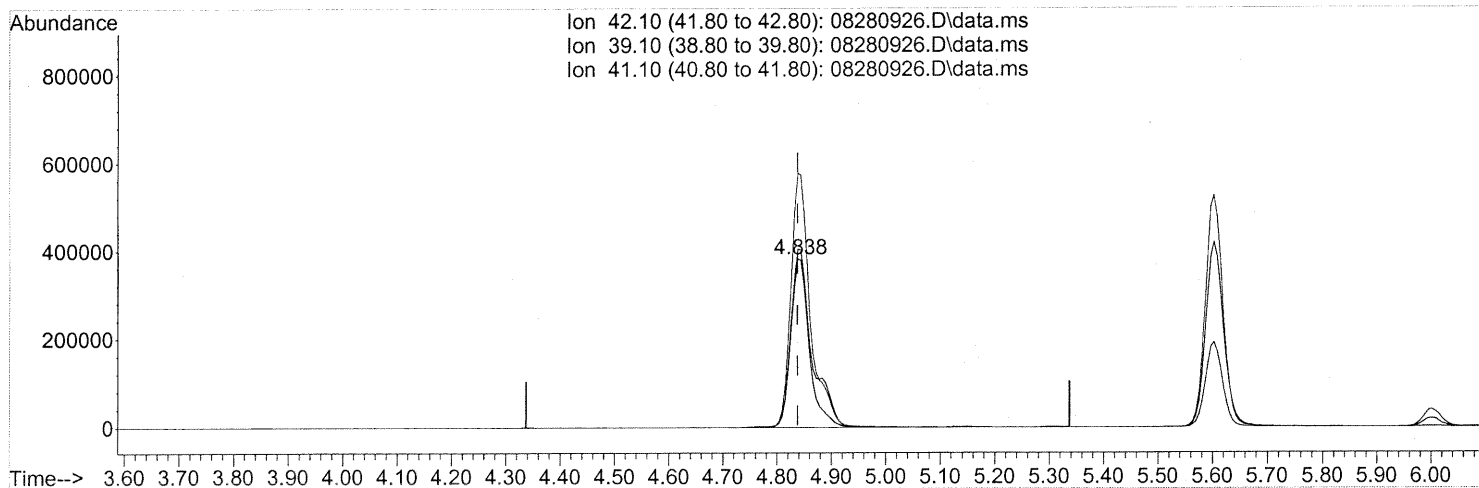
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	3113	0.064	ng	89
81) 2-Ethyltoluene	24.79	105	19121	0.170	ng	98
82) 1,2,4-Trimethylbenzene	25.05	105	64230	0.670	ng	89
83) n-Decane	25.15	57	86112	1.543	ng	93
84) Benzyl Chloride	25.25	91	1150	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.33	146	8236	0.156	ng	98
87) sec-Butylbenzene	25.38	105	3532	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	204700	1.691	ng	97
89) 1,2,3-Trimethylbenzene	25.57	105	30740	0.317	ng	# 39
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.	d	
91) d-Limonene	25.74	68	1645806	41.968	ng	93
92) 1,2-Dibromo-3-Chloropr...	26.66	157	106	N.D.		
93) n-Undecane	26.65	57	92330	1.602	ng	# 76
94) 1,2,4-Trichlorobenzene	27.78	180	2488	0.071	ng	91
95) Naphthalene	27.94	128	85792	0.667	ng	100
96) n-Dodecane	27.89	57	59898	0.928	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	49279	1.507	ng	94
99) tert-Butylbenzene	25.49	119	7041	0.074	ng	100
100) n-Butylbenzene	26.12	91	33358	0.332	ng	# 71

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(2) Propene (T)

4.838min (+0.000) 28.32ng

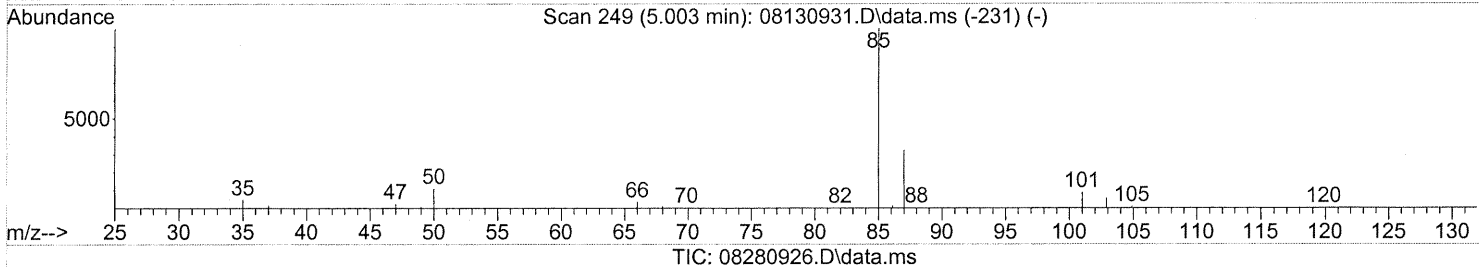
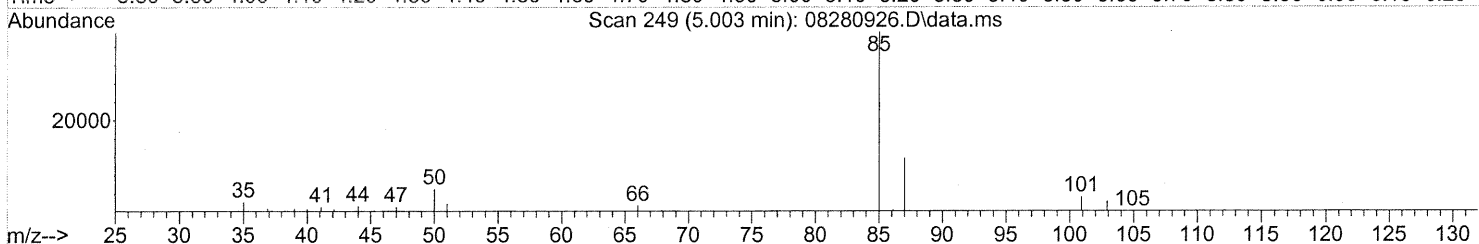
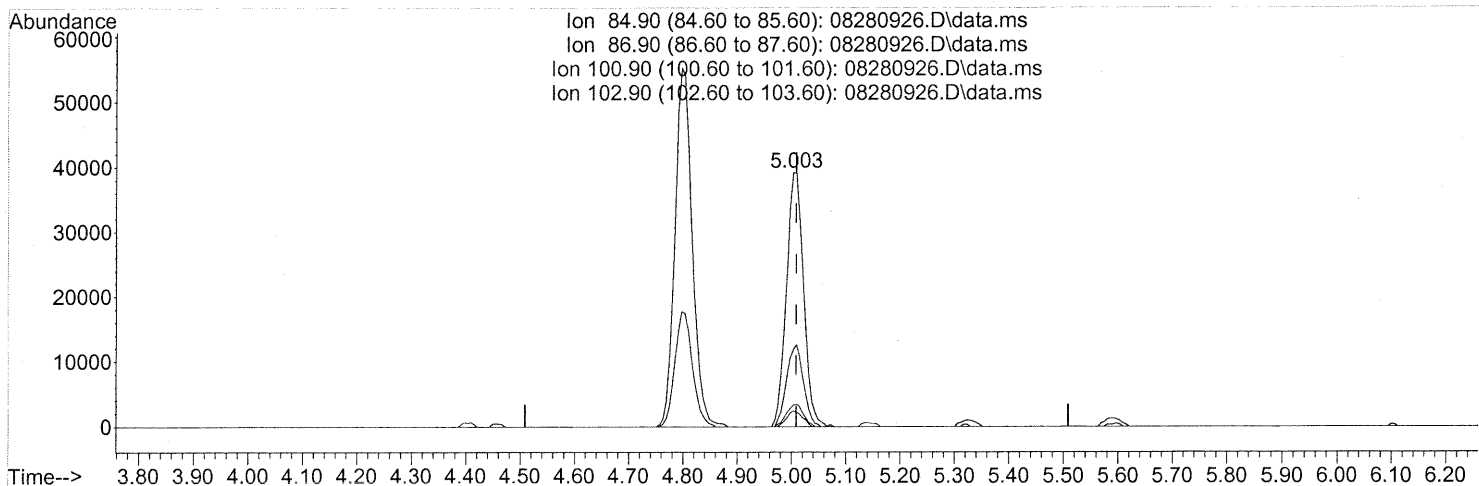
response 905429

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	122.12
41.10	152.70	160.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

5.003min (-0.006) 1.87ng

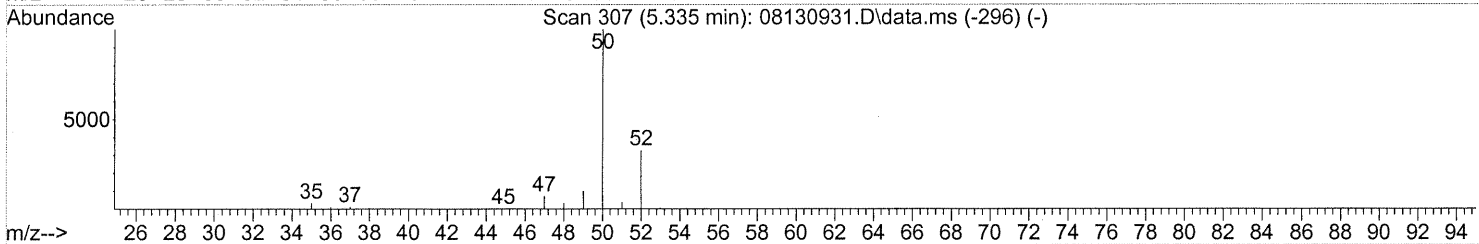
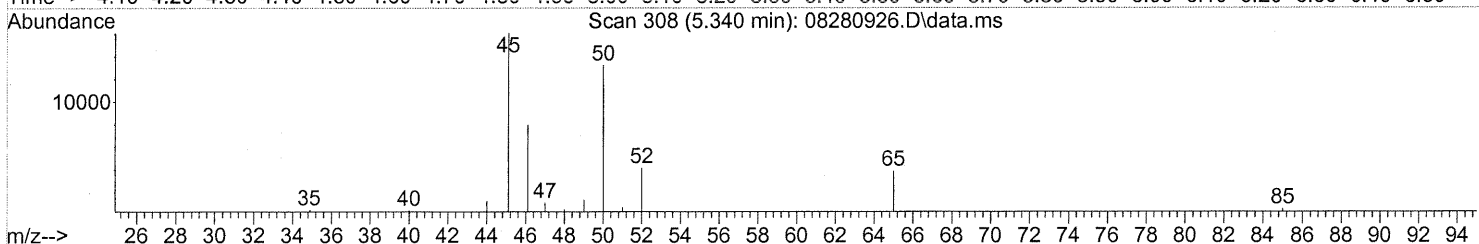
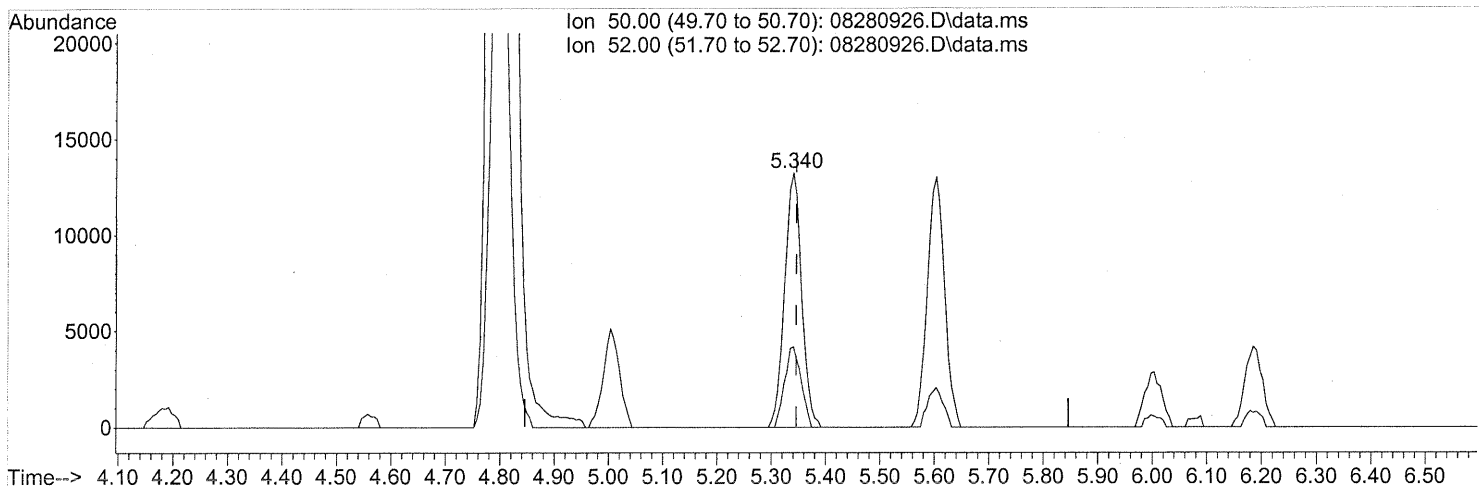
response 85427

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.50
100.90	9.10	8.59
102.90	5.50	5.52

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(4) Chloromethane (T)

5.340min (-0.006) 0.67ng

response 28707

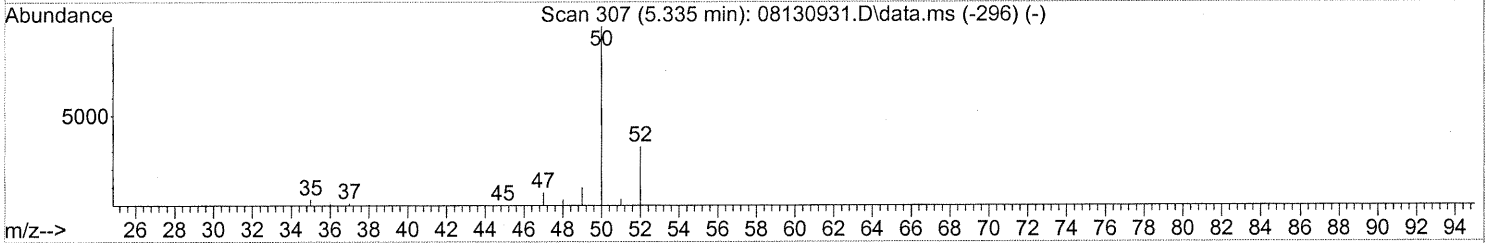
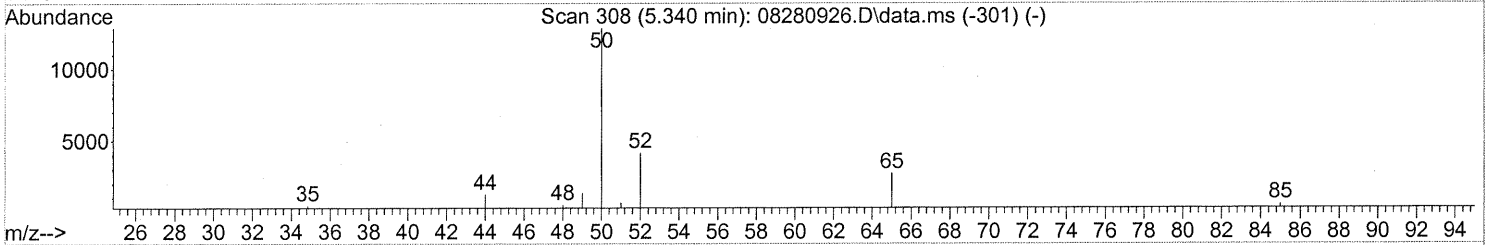
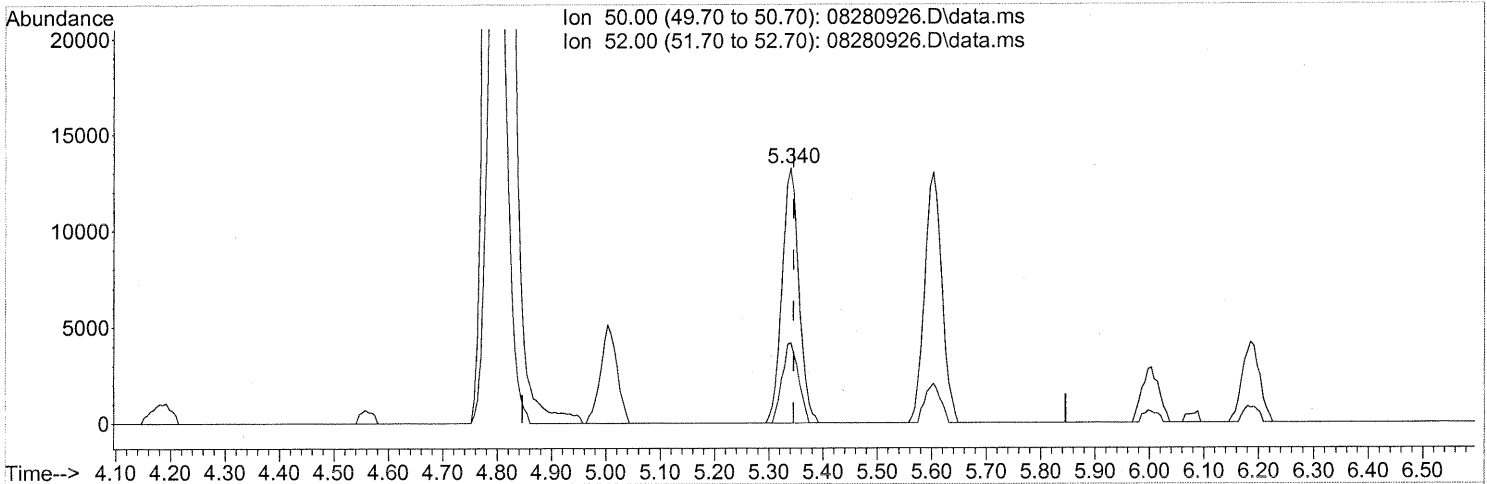
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.44
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(4) Chloromethane (T)
 5.340min (-0.006) 0.67ng
 response 28707

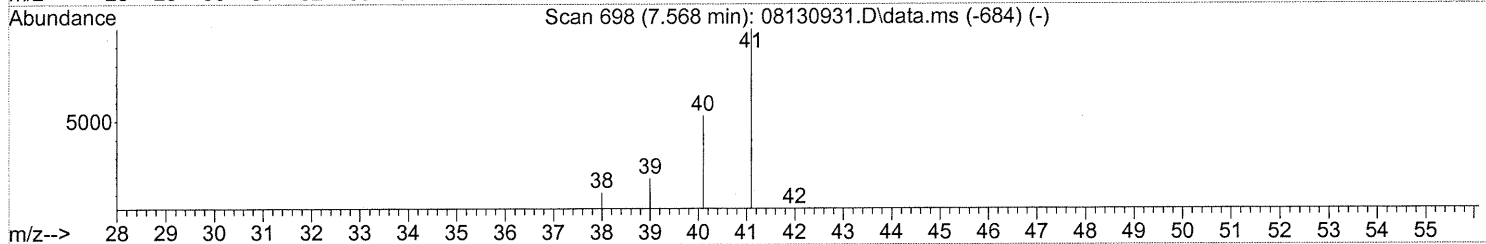
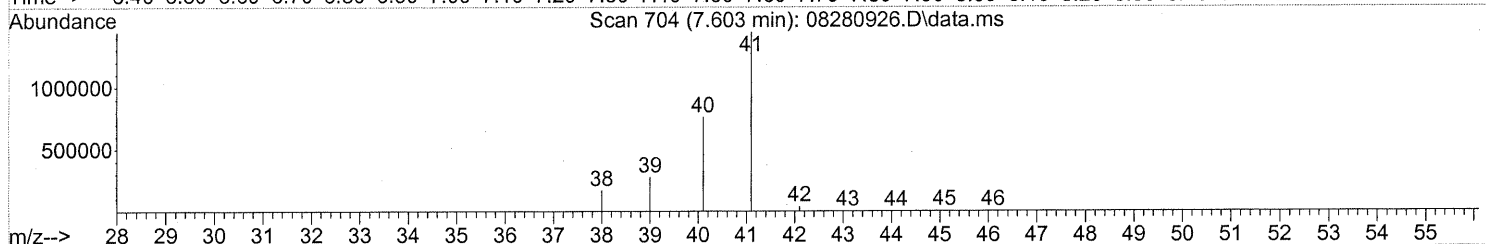
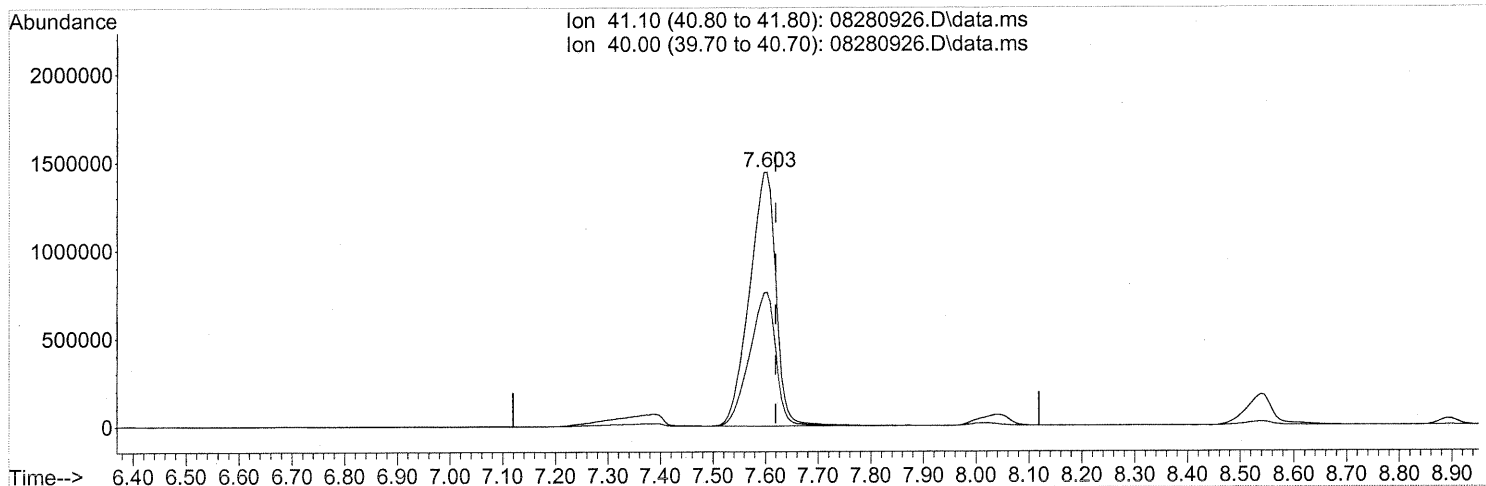
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.44
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 Lem 9/1/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 08280926.D\data.ms

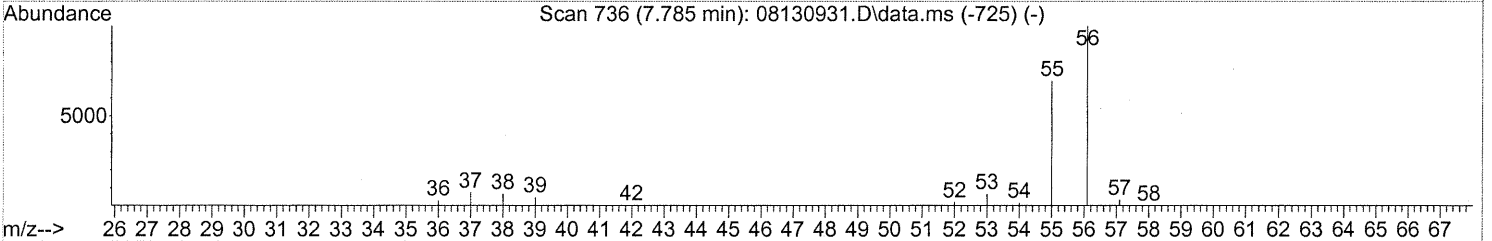
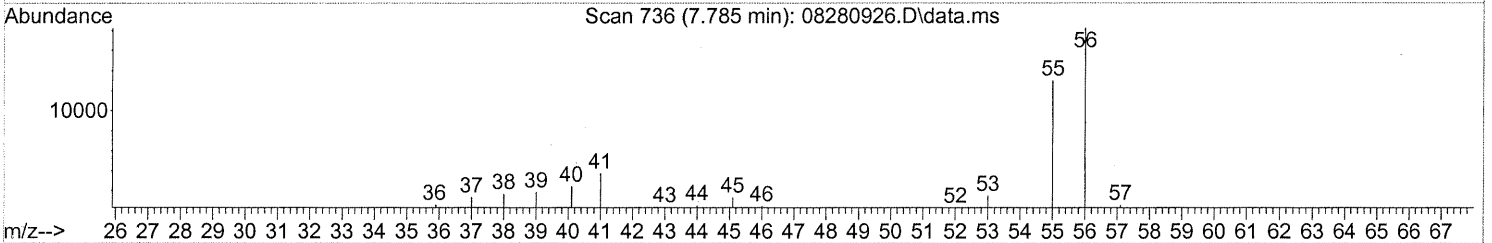
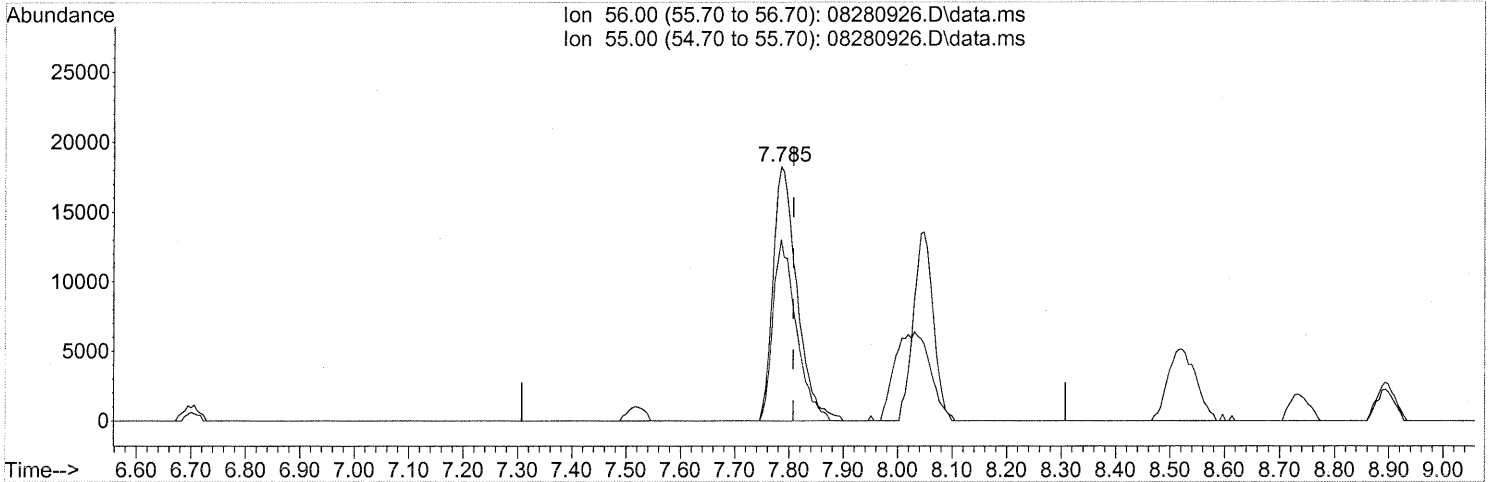
(11) Acetonitrile (T)
 7.603min (-0.017) 102.70ng
 response 5027148

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(12) Acrolein (T)

7.785min (-0.023) 4.28ng

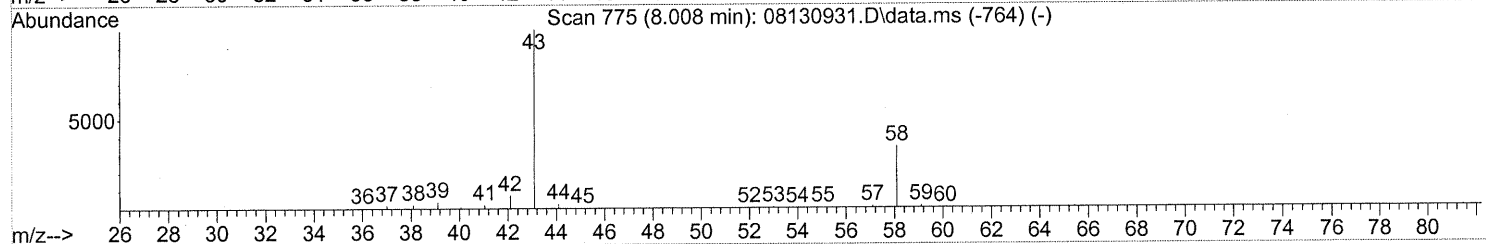
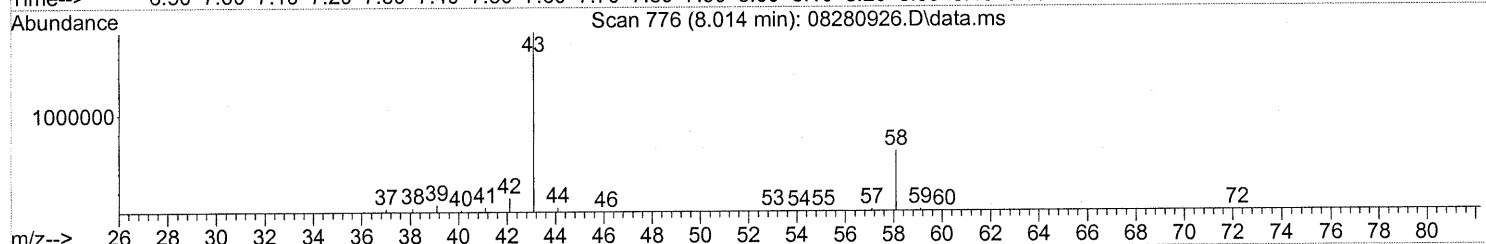
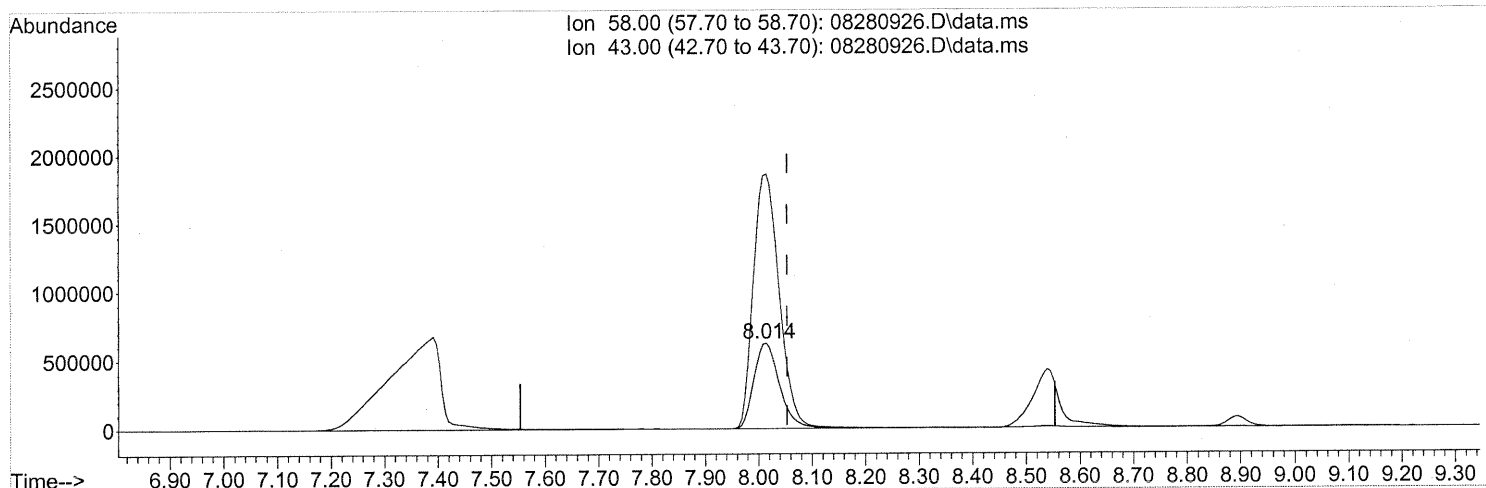
response 55961

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	69.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(13) Acetone (T)

8.014min (-0.040) 101.48ng

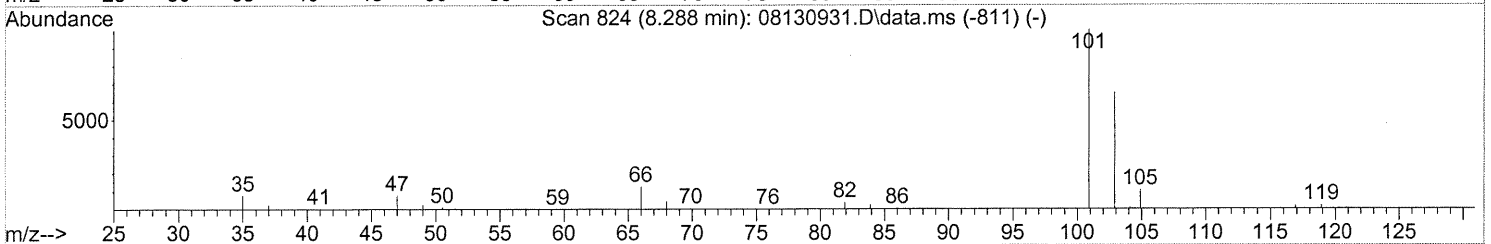
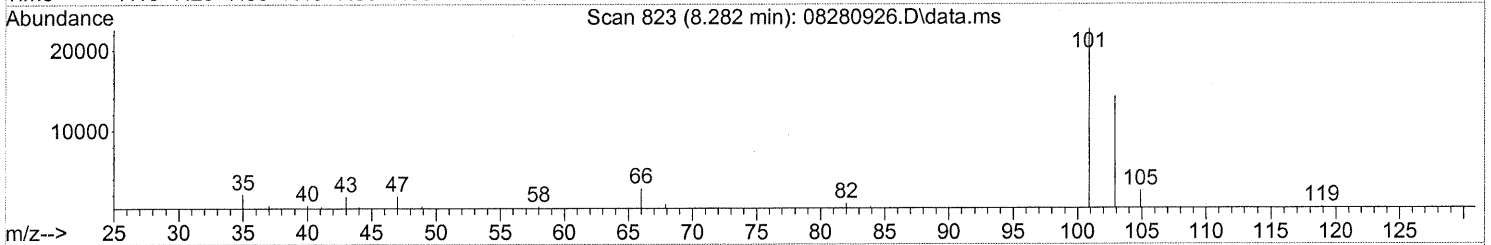
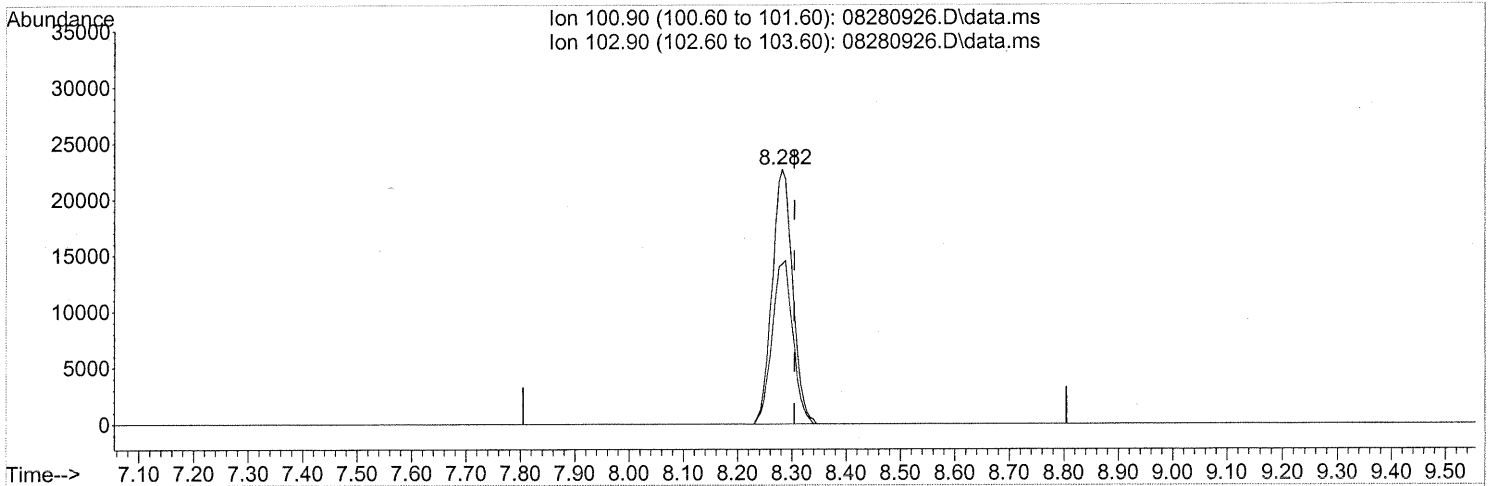
response 2071240

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	302.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 1.52ng

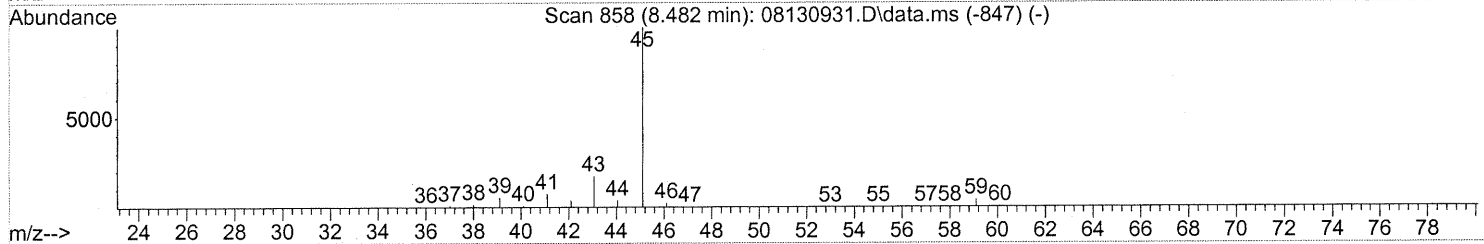
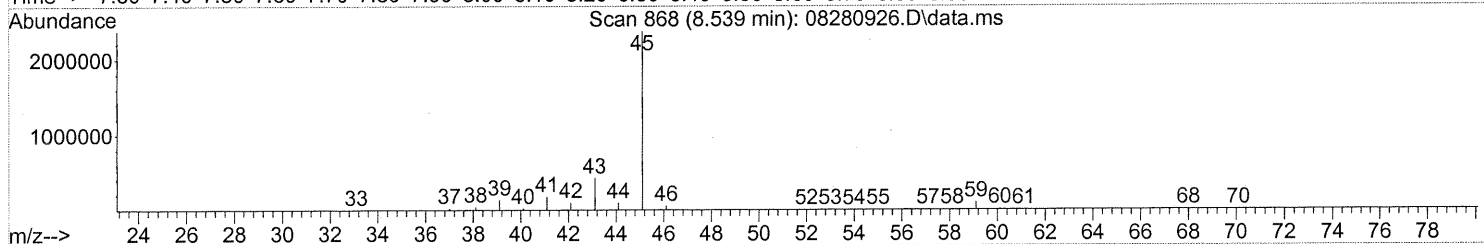
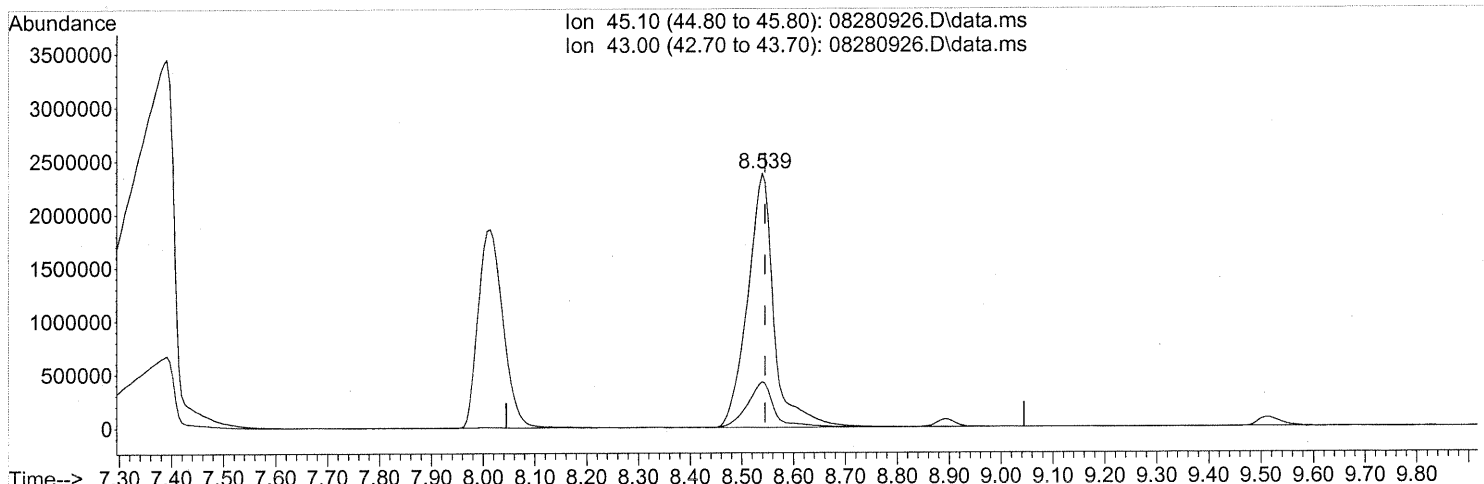
response 59225

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	64.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

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

8.539min (-0.006) 150.01ng

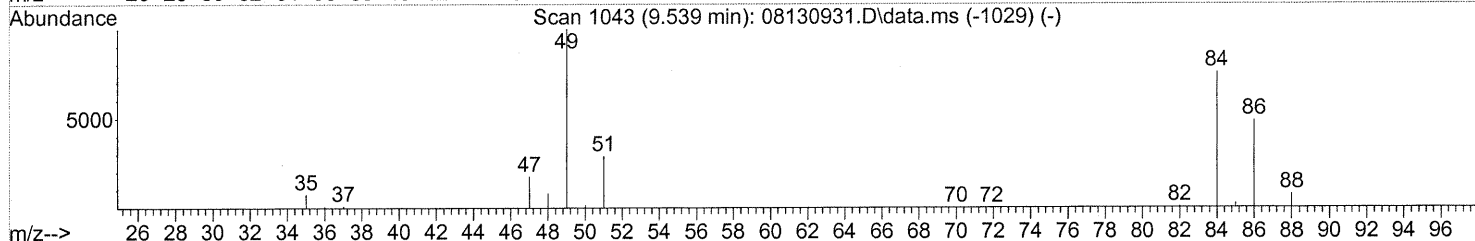
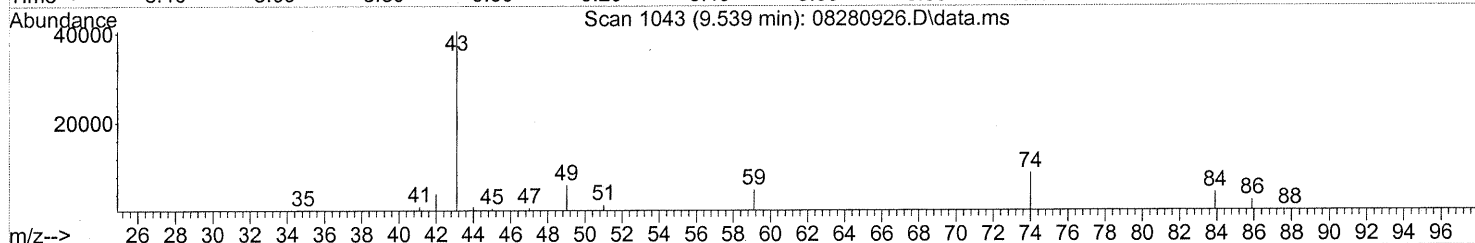
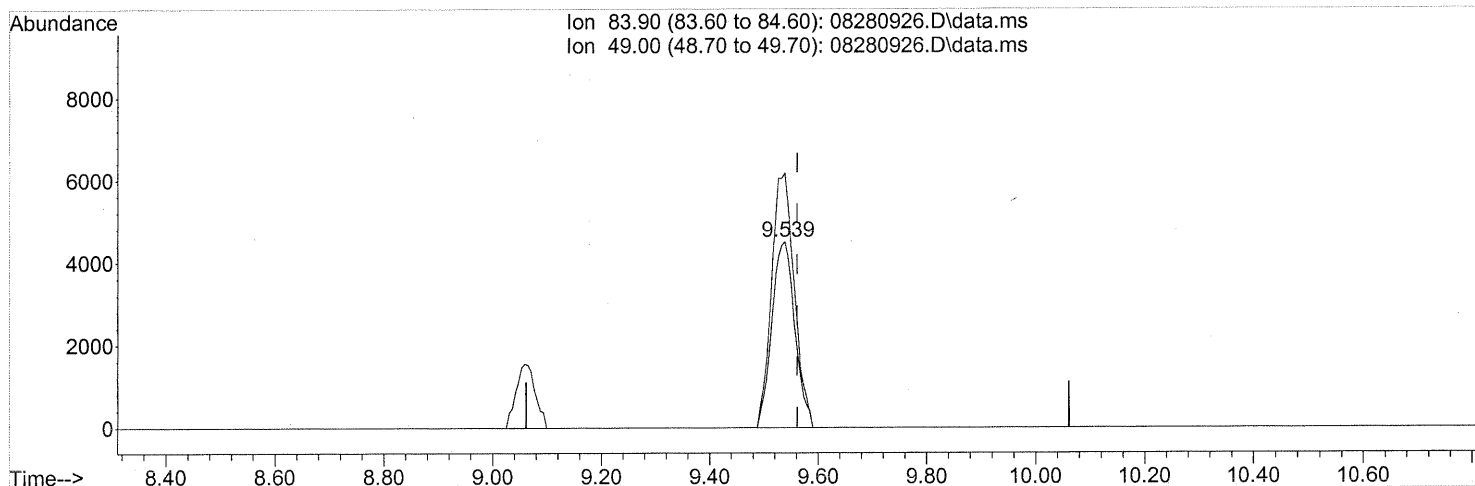
response 8384684

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(19) Methylene Chloride (T)

9.539min (-0.023) 0.52ng

response 13251

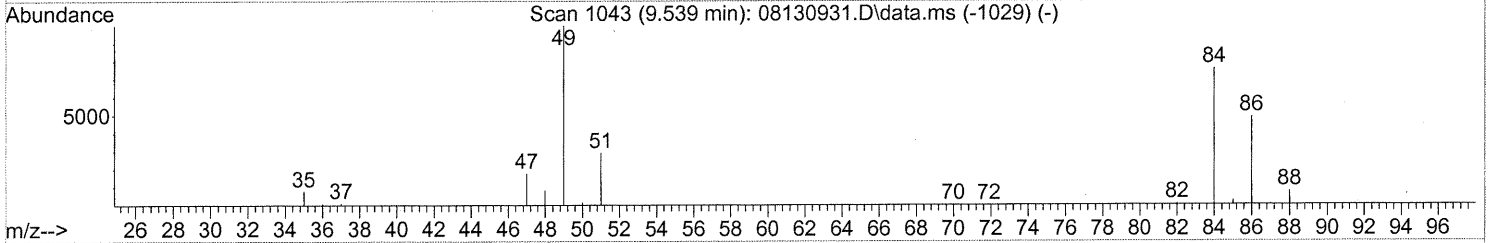
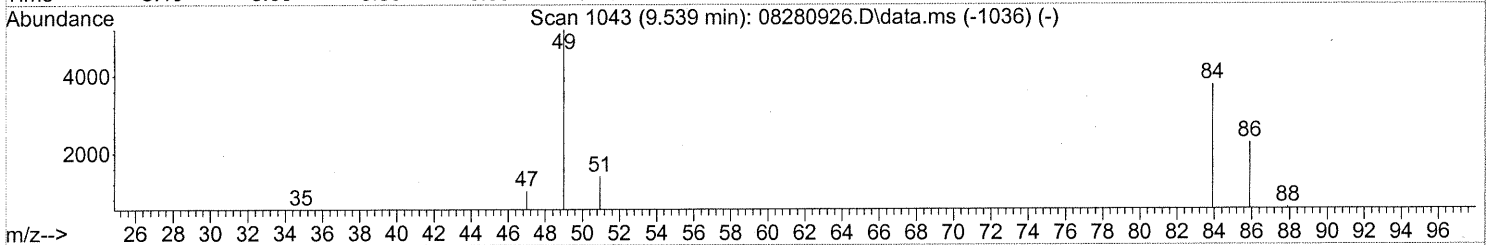
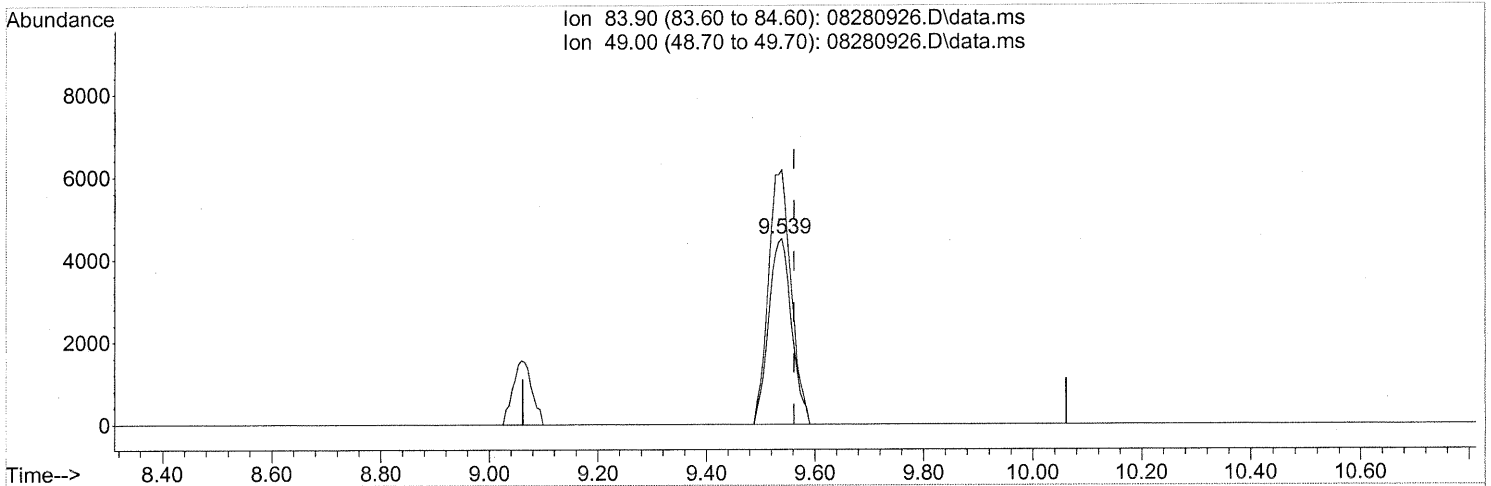
Ion	Exp%	Act%
83.90	100	100
49.00	118.80	135.82
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(19) Methylene Chloride (T)

9.539min (-0.023) 0.52ng

response 13251

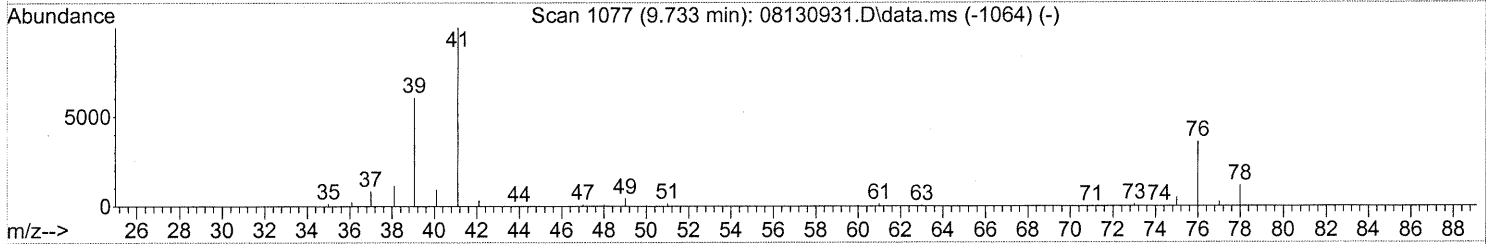
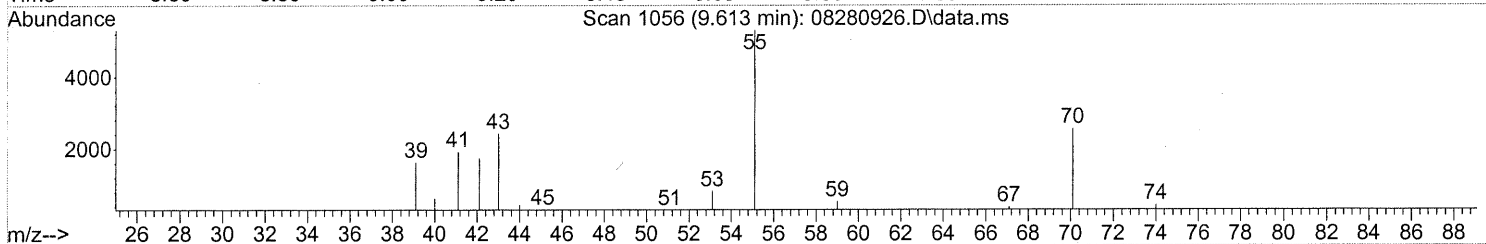
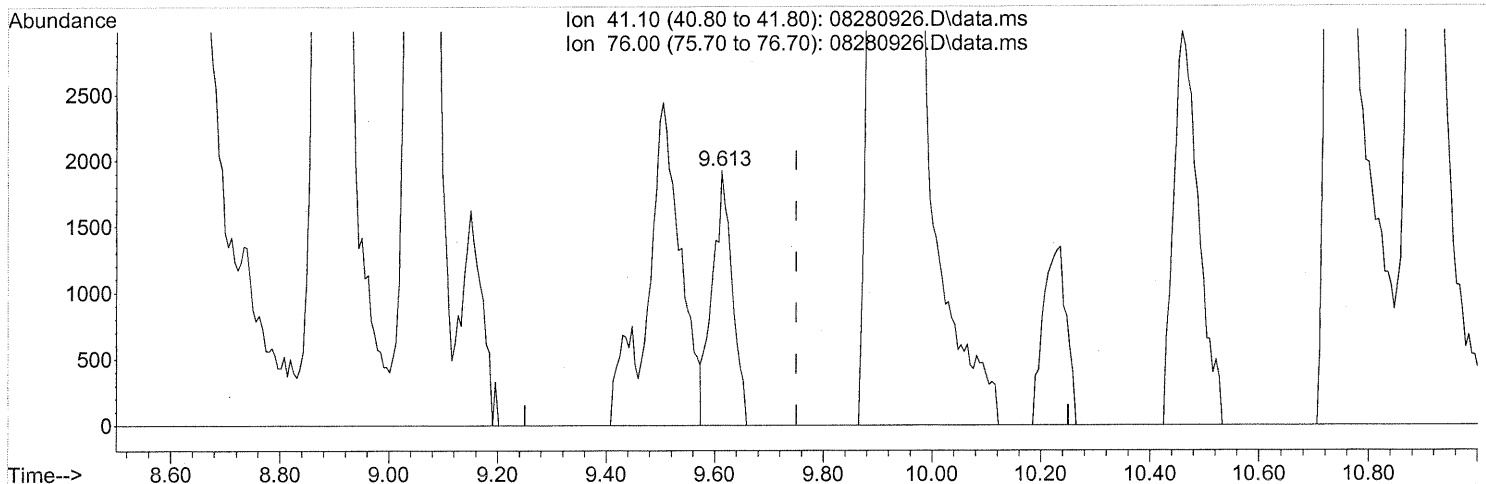
Ion	Exp%	Act%
83.90	100	100
49.00	118.80	135.82
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
com 9/1/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08280926.D\data.ms

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

9.613min (-0.137) 0.14ng

response 4932

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

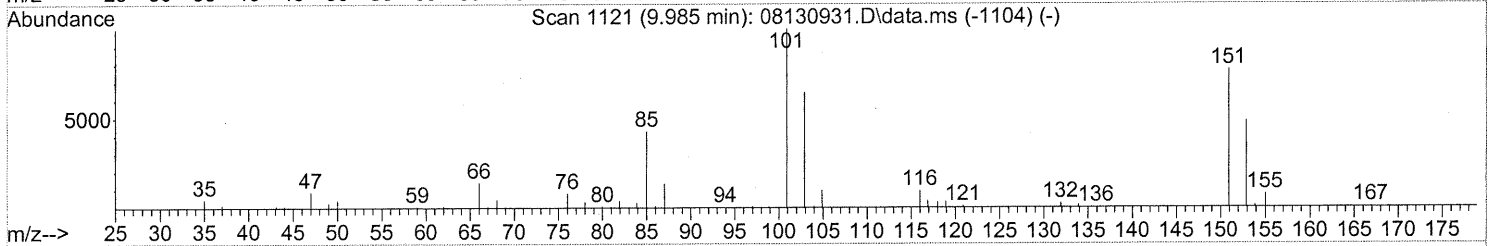
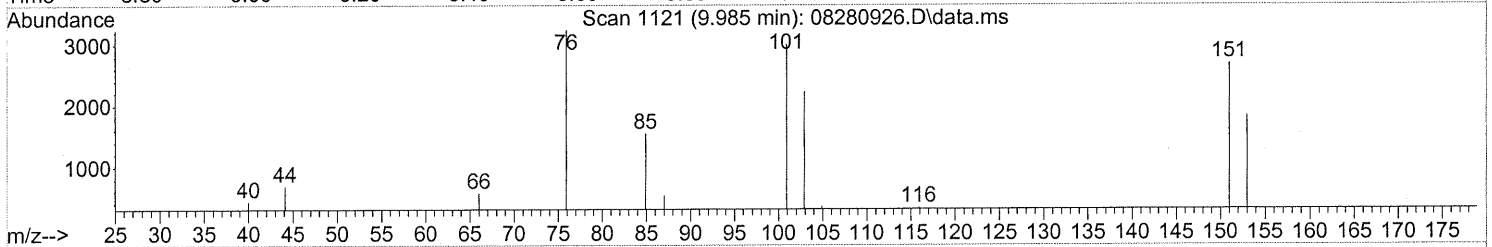
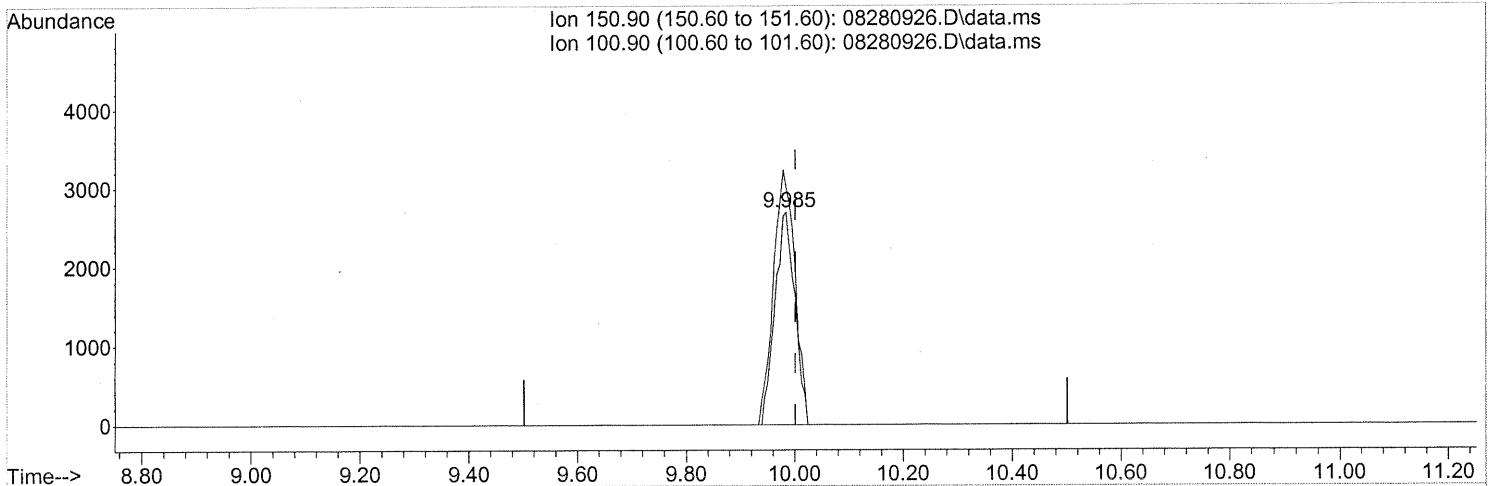
FP em 9/1/09

keg/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.39ng

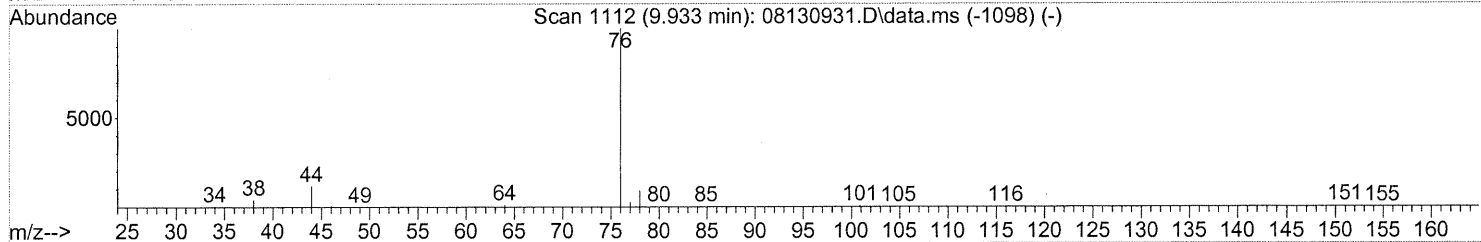
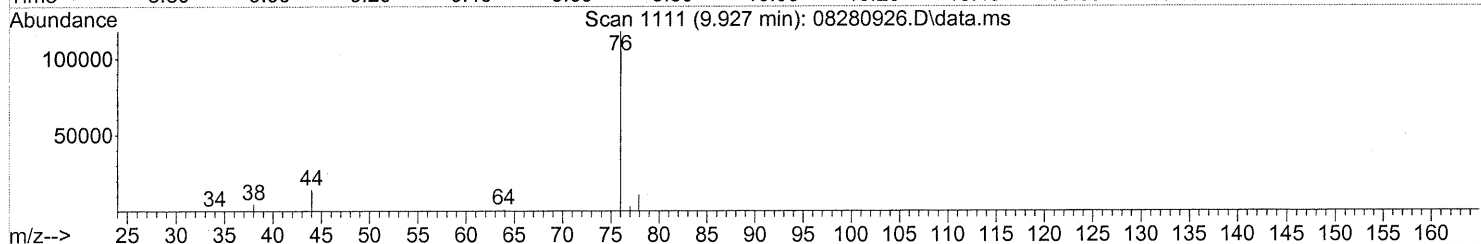
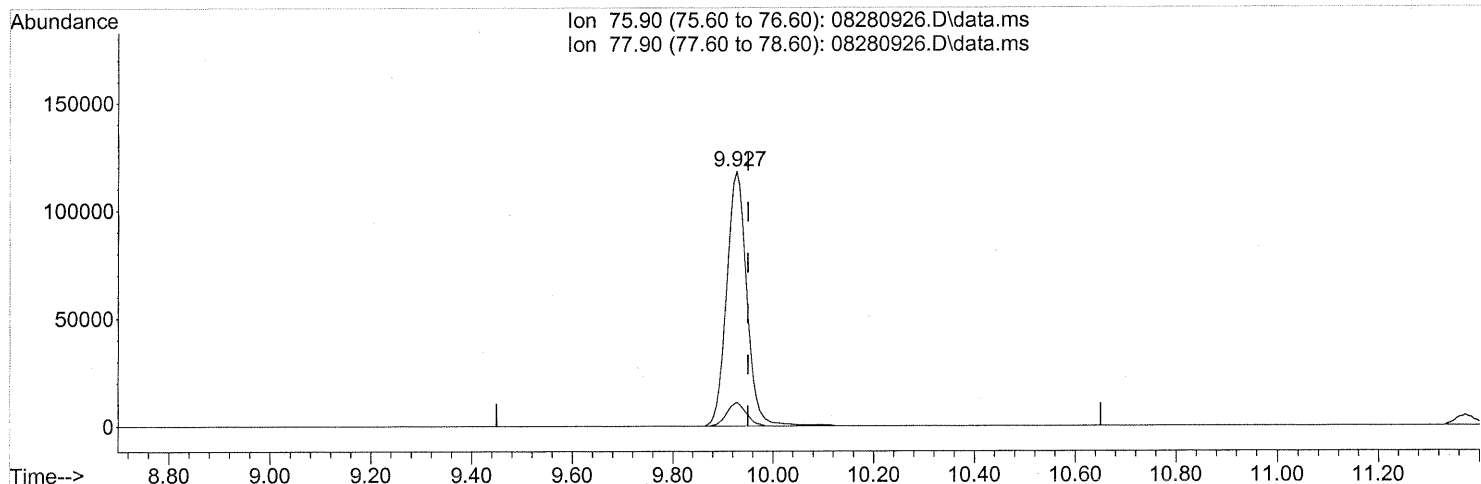
response 6873

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	129.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(22) Carbon Disulfide (T)

9.927min (-0.023) 3.65ng

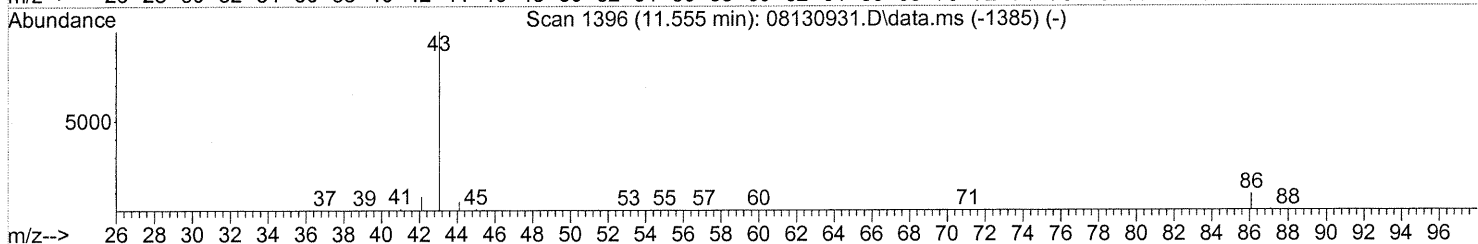
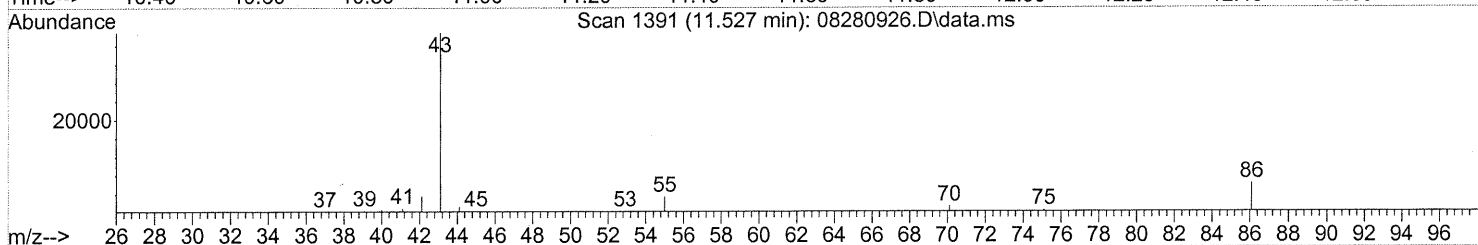
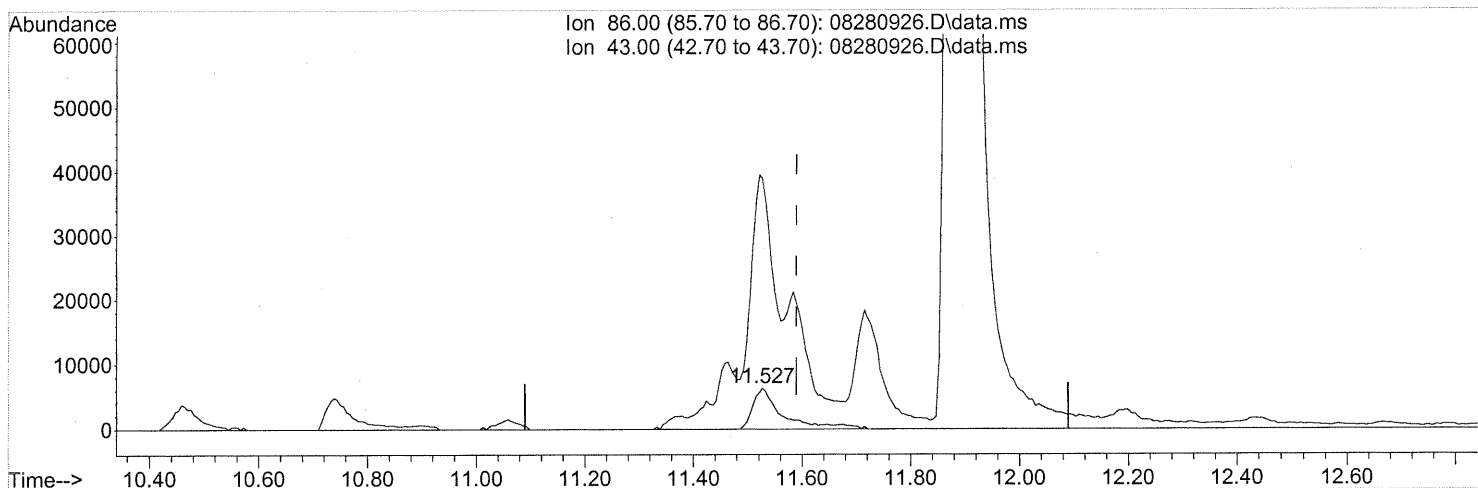
response 328452

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(26) Vinyl Acetate (T)

11.527min (-0.063) 5.30ng

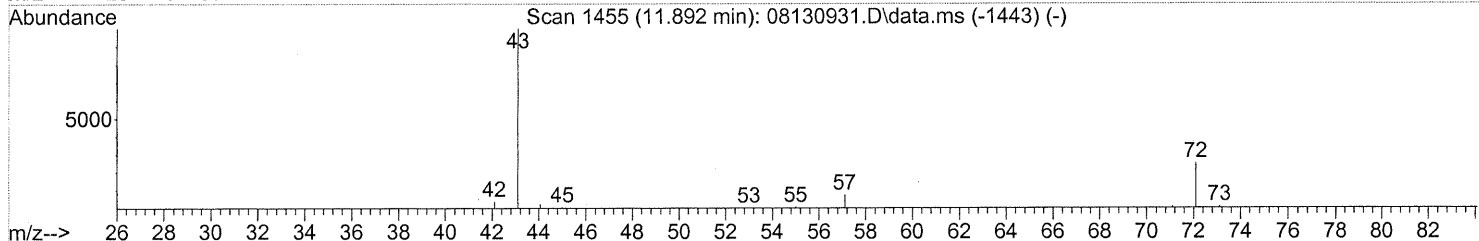
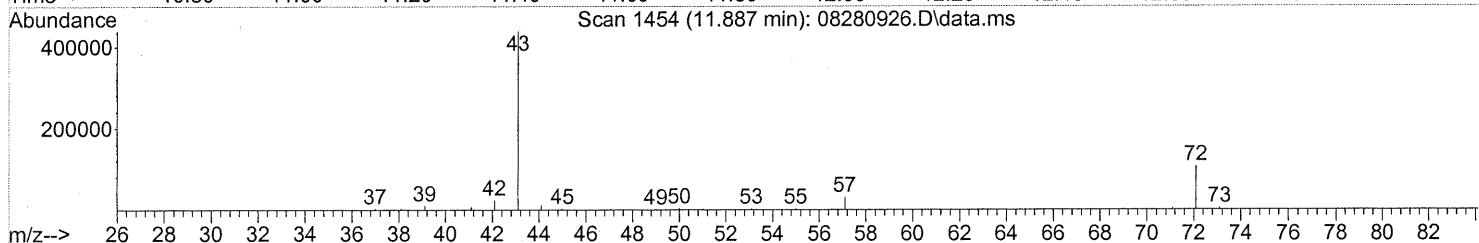
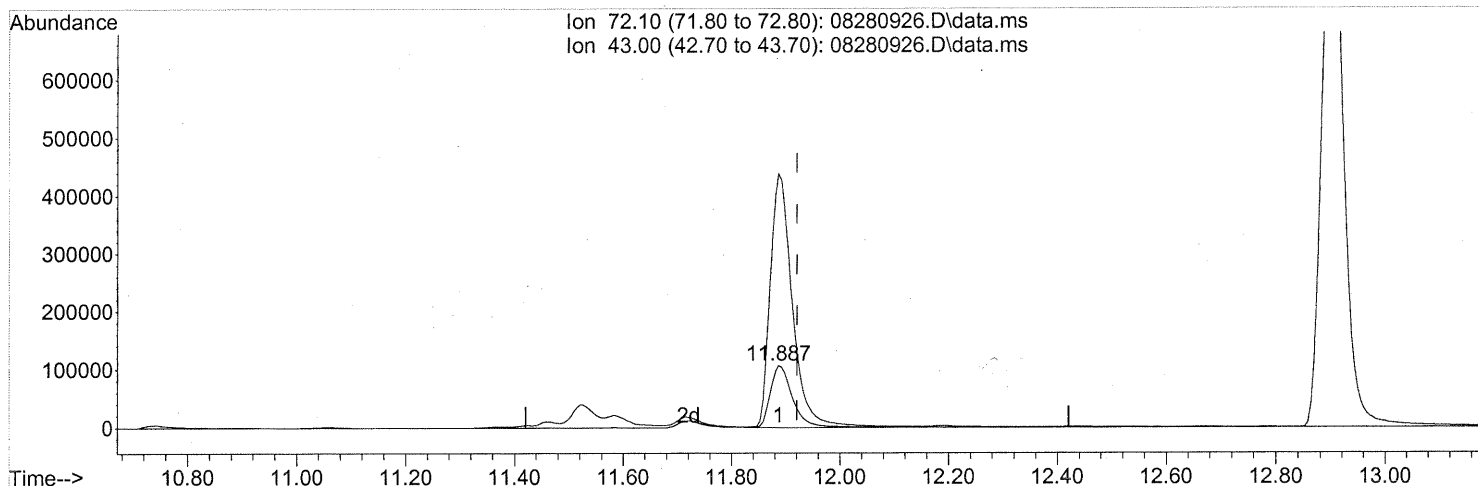
response 23448

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	742.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

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

11.887min (-0.034) 21.27ng

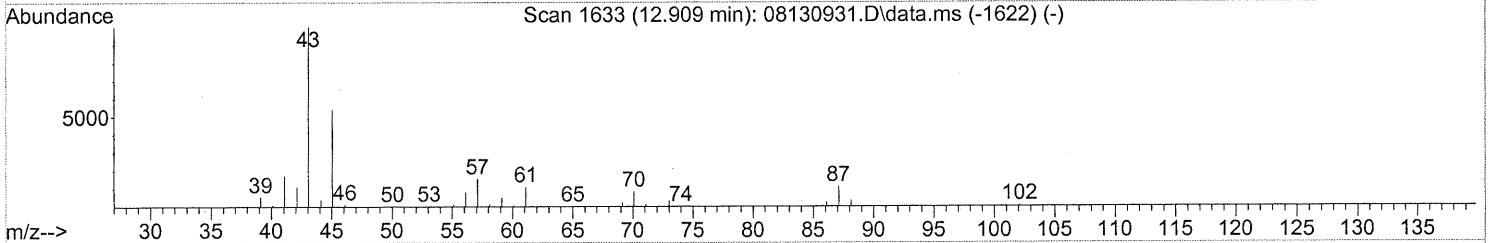
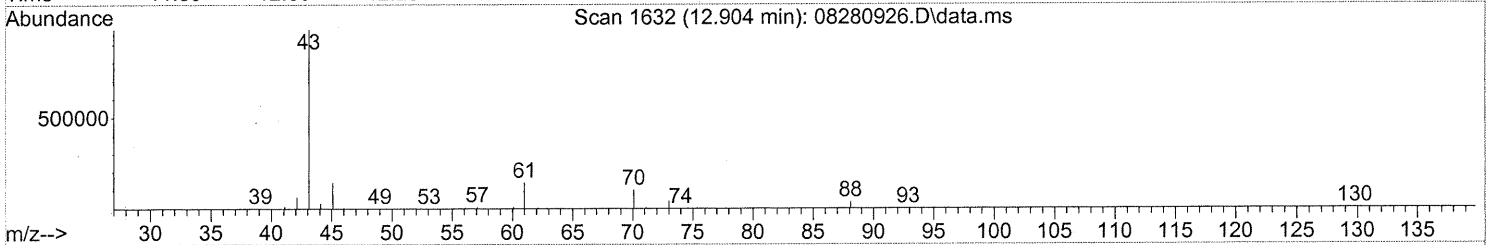
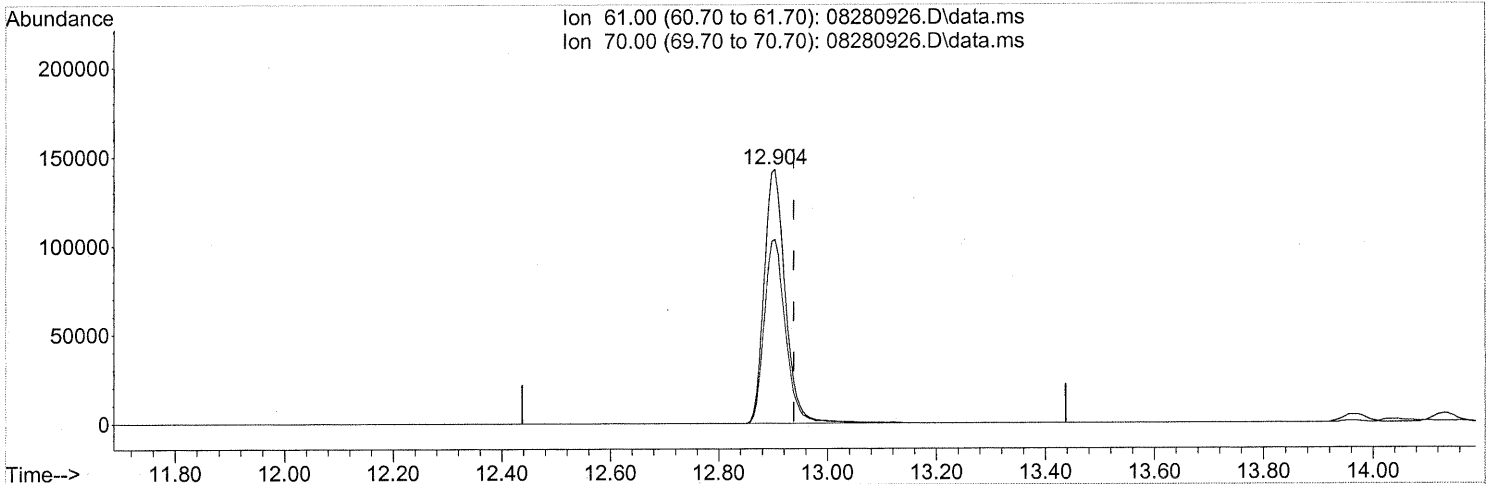
response 302654

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	405.14#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

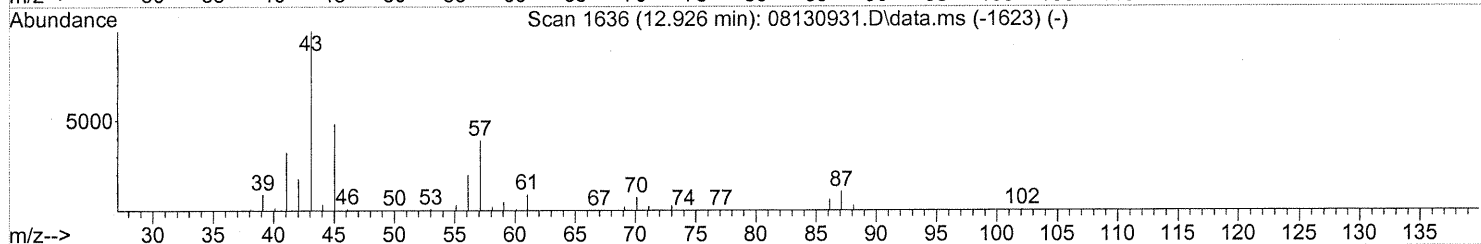
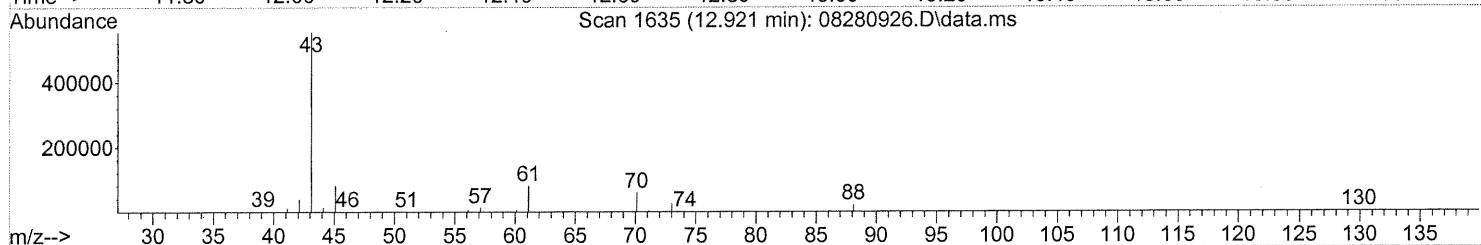
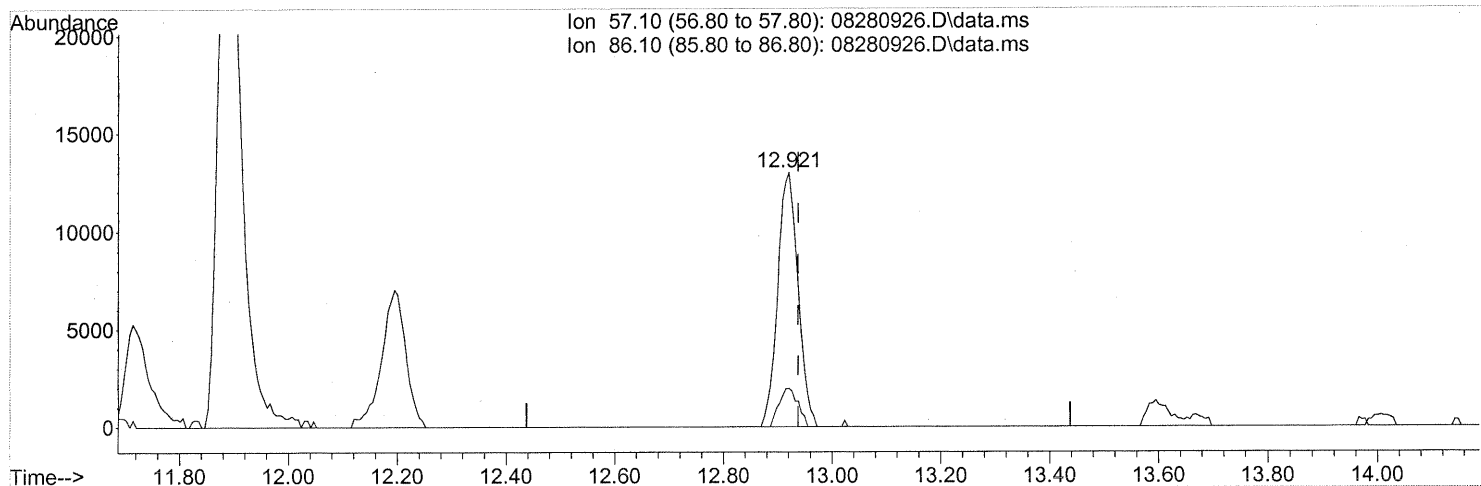
(30) Ethyl Acetate (T)
 12.904min (-0.034) 41.84ng
 response 386091

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	72.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

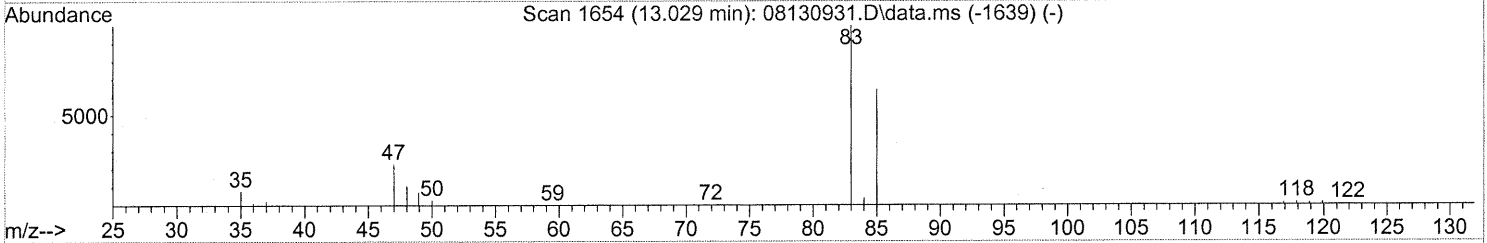
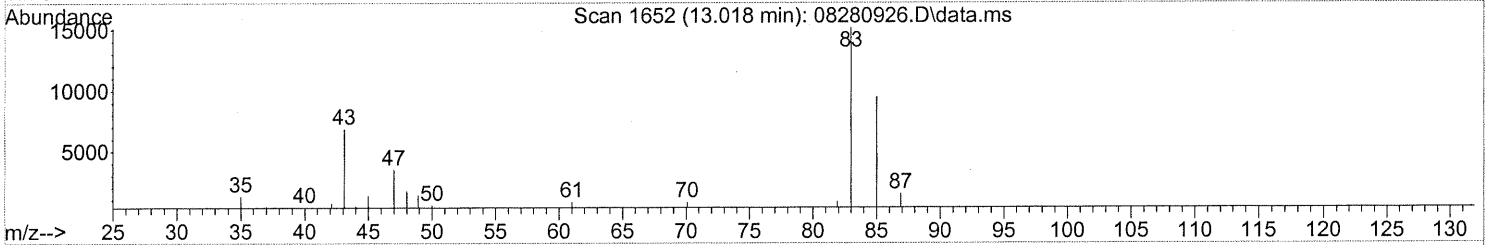
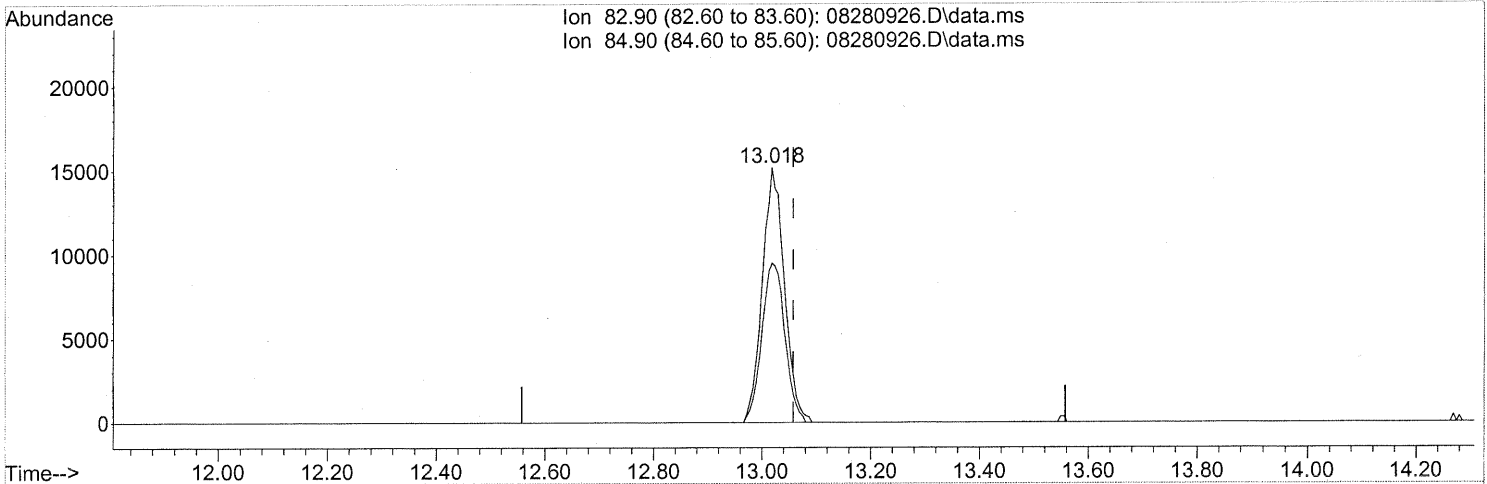
(31) n-Hexane (T)
 12.921min (-0.017) 0.75ng
 response 33717

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	14.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



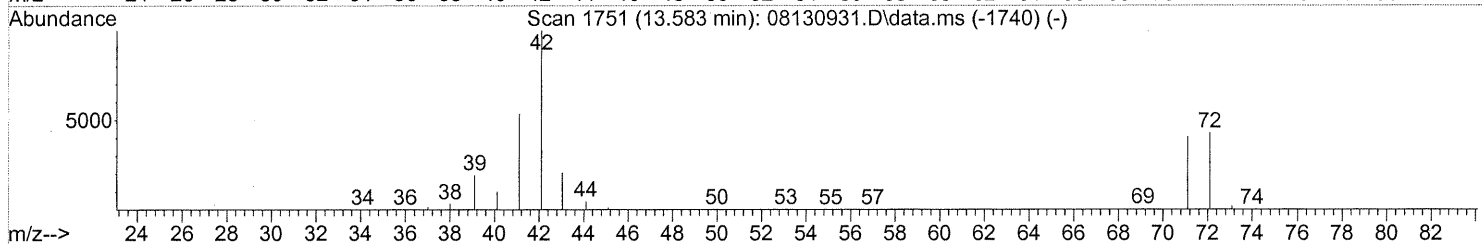
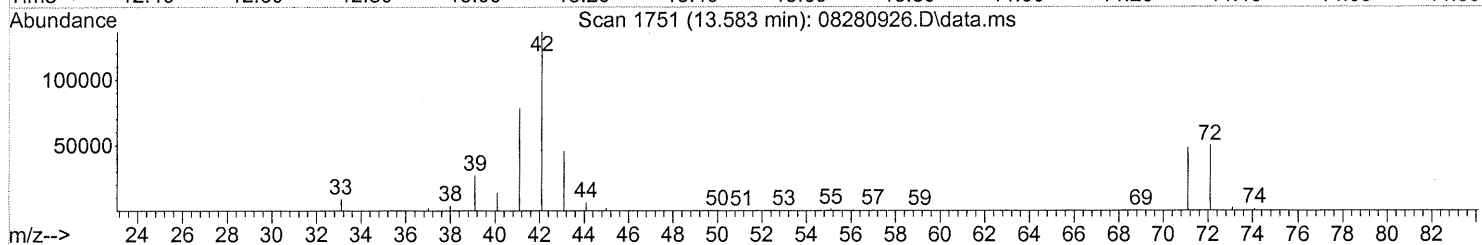
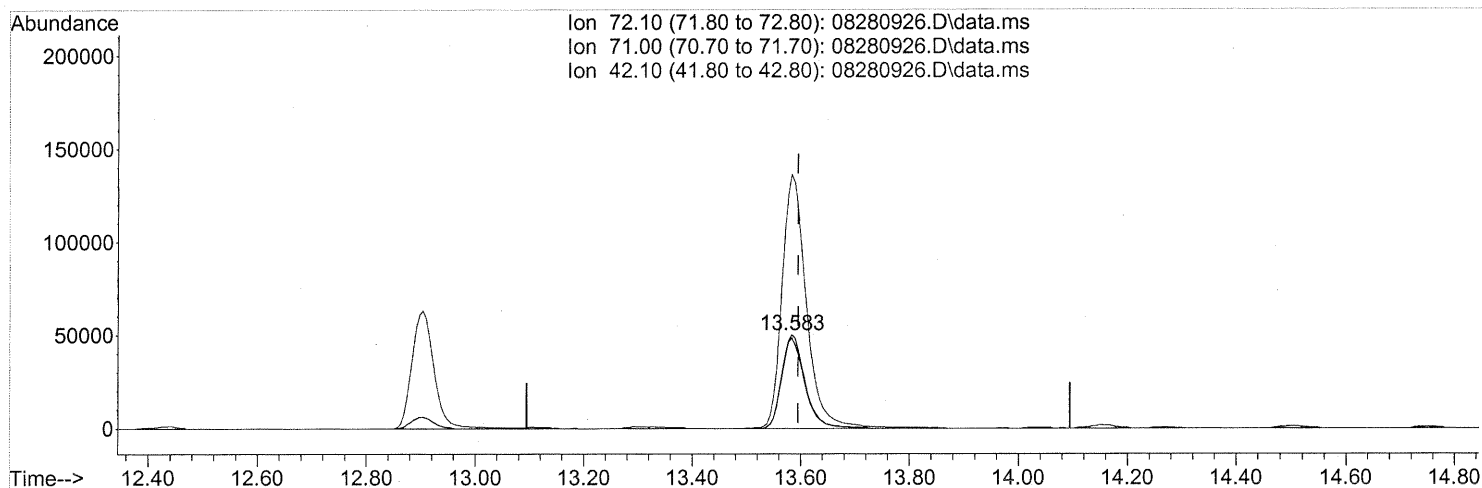
(32) Chloroform (T)
 13.018min (-0.040) 1.14ng
 response 42902

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.583min (-0.011) 10.04ng

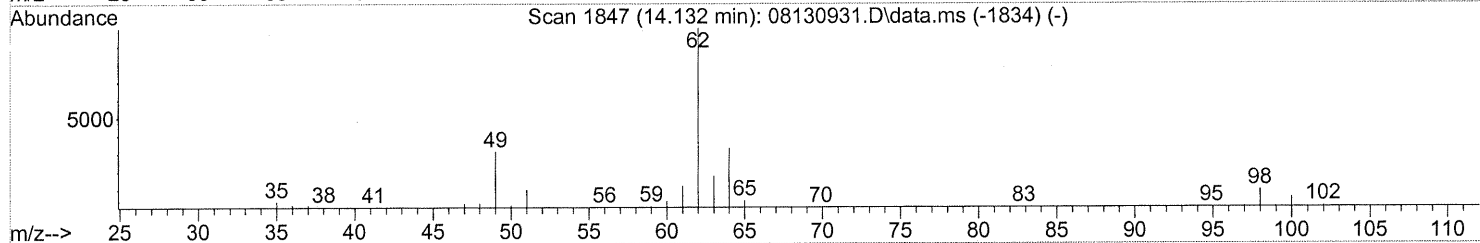
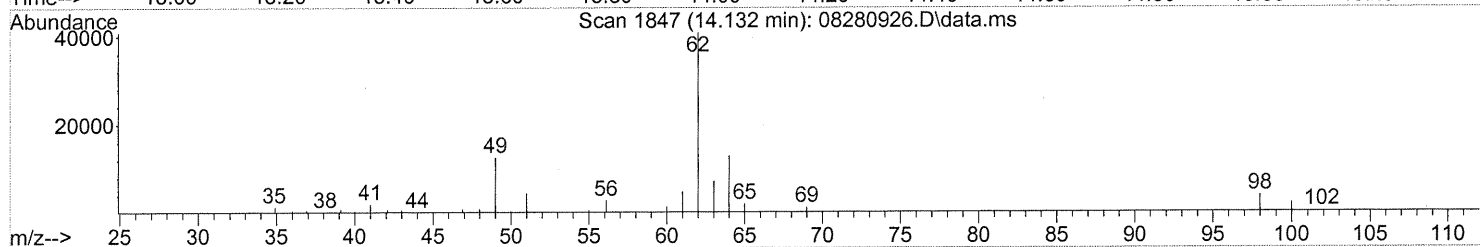
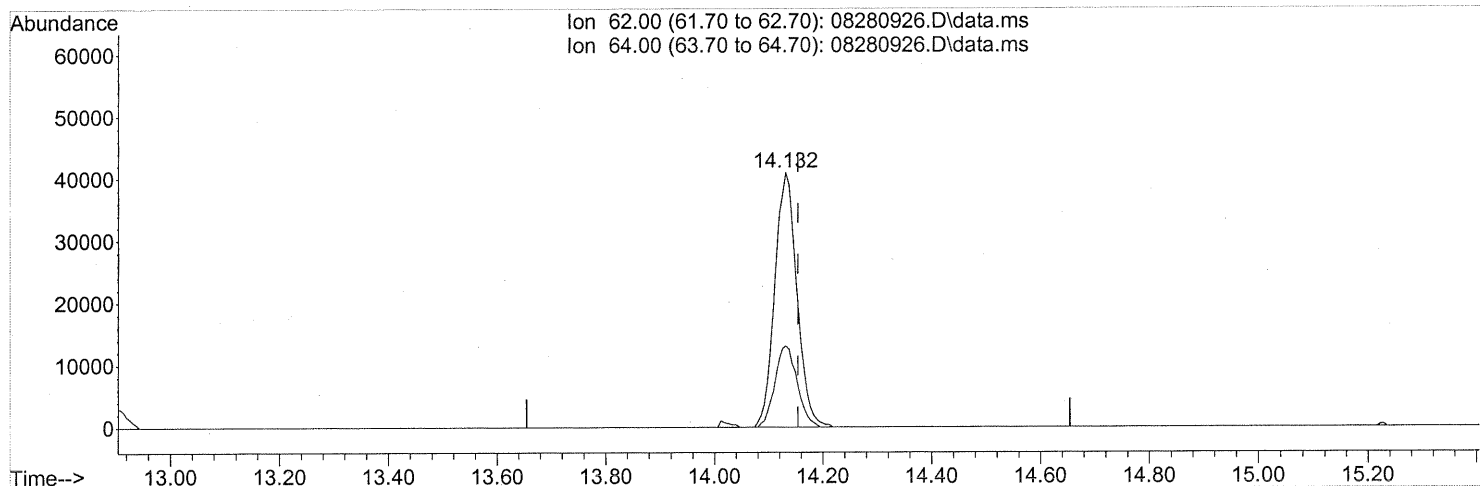
response 148459

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	95.16
42.10	206.50	285.22#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 4.04ng

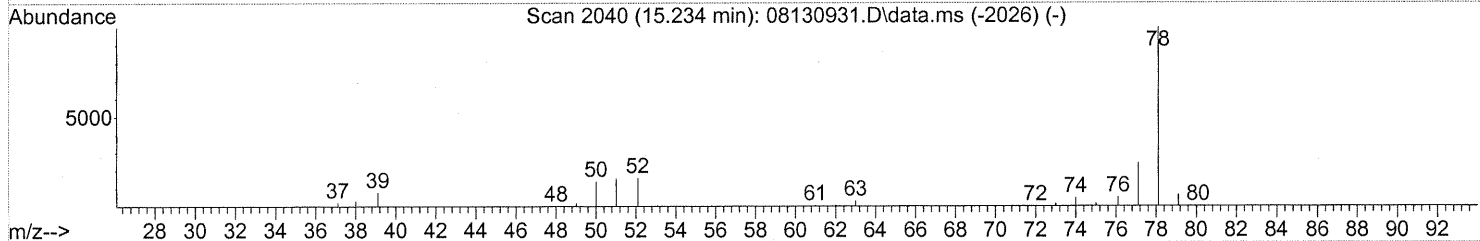
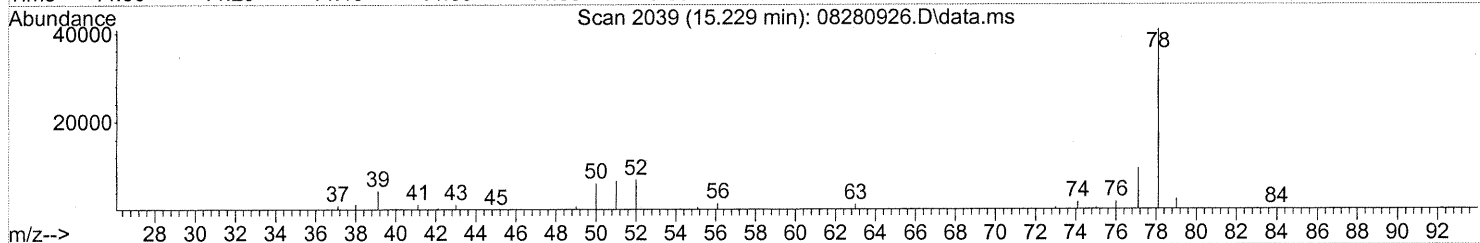
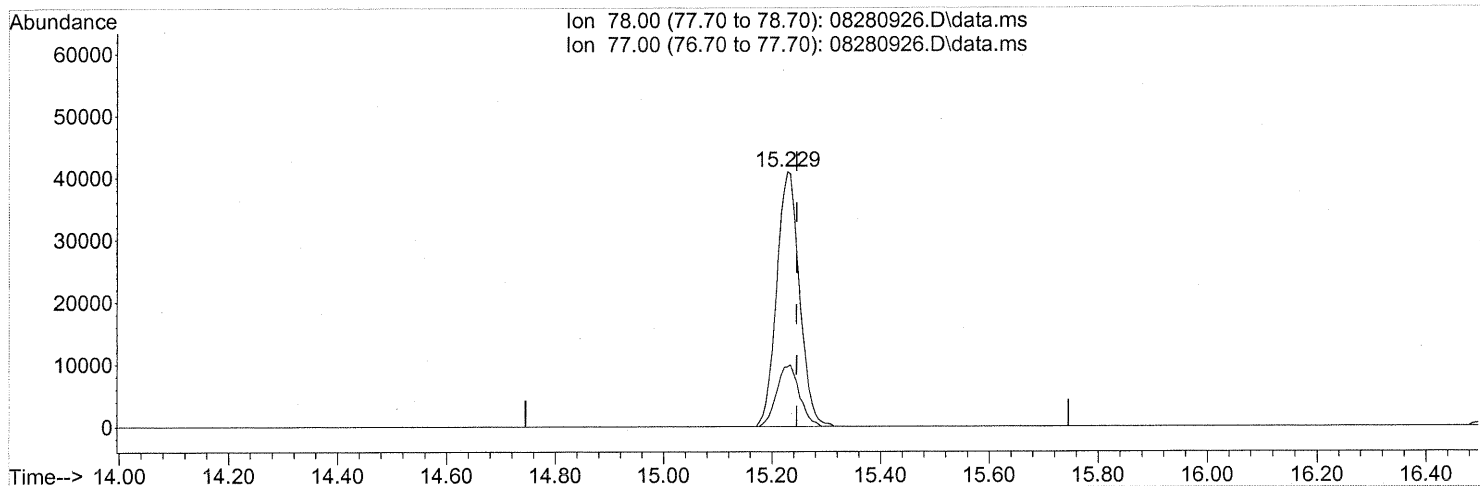
response 116280

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	32.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

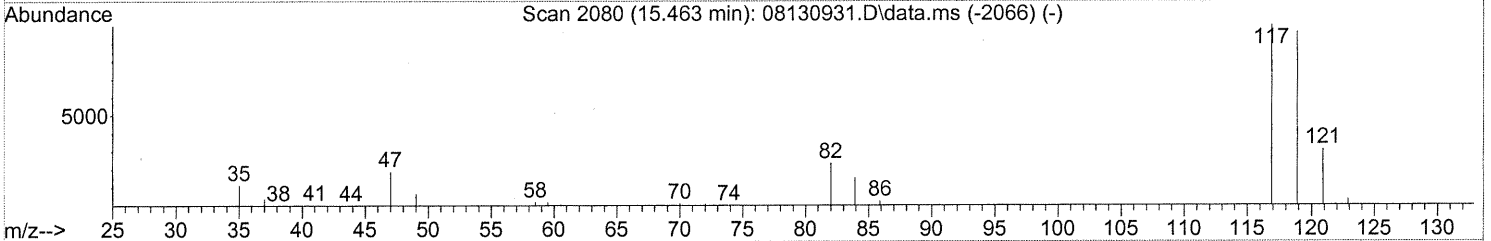
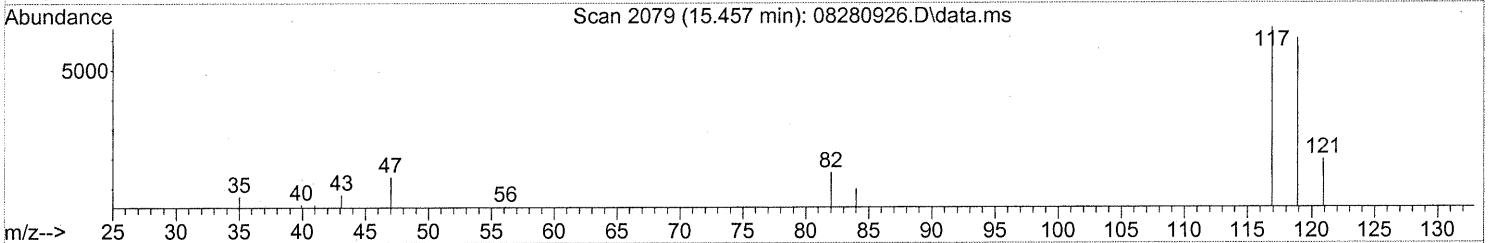
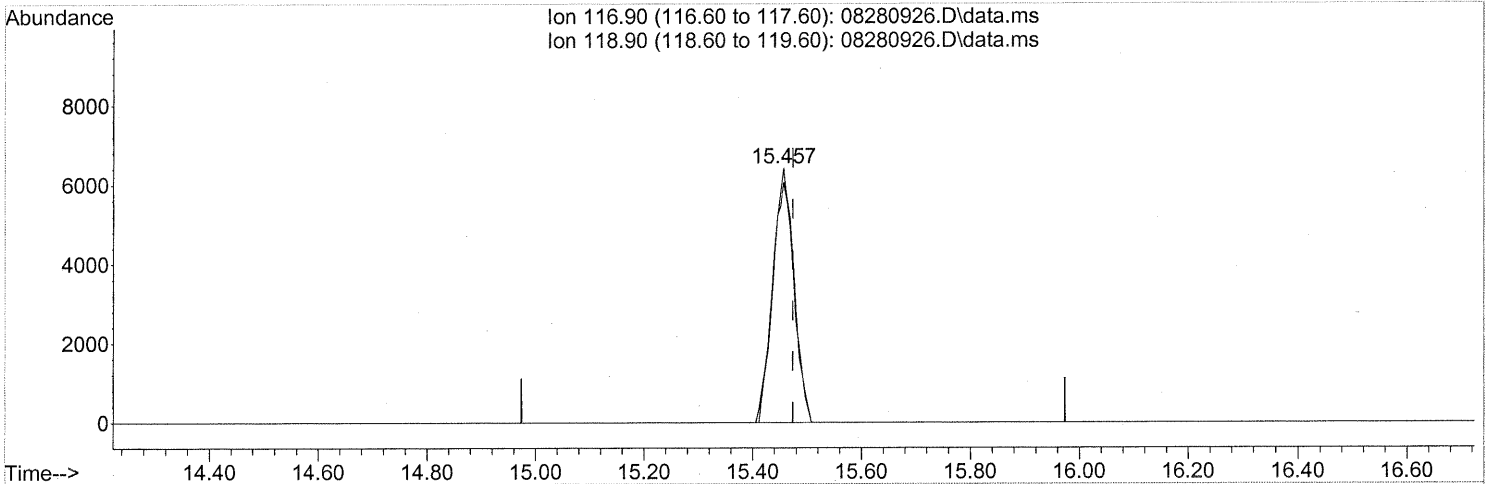
(41) Benzene (T)
 15.229min (-0.017) 1.19ng
 response 118579

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	23.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280926.D
Acq On : 28 Aug 2009 23:48
Operator : EM
Sample : P0902899-004 (1000ml)
Misc : Env. H & E 102518
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08280926.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.63ng

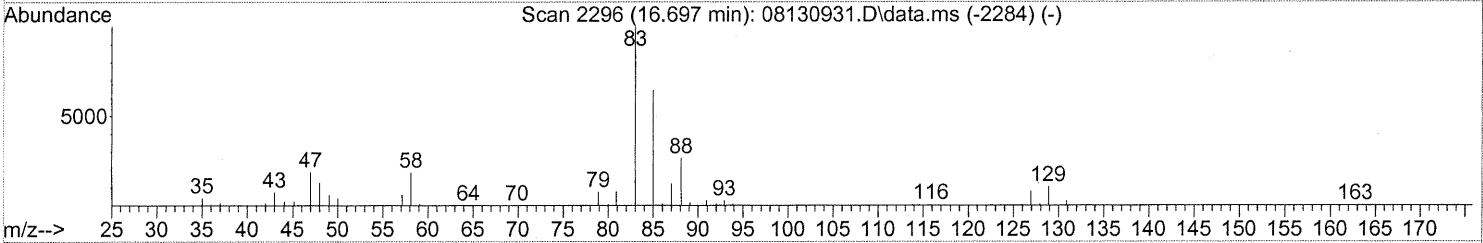
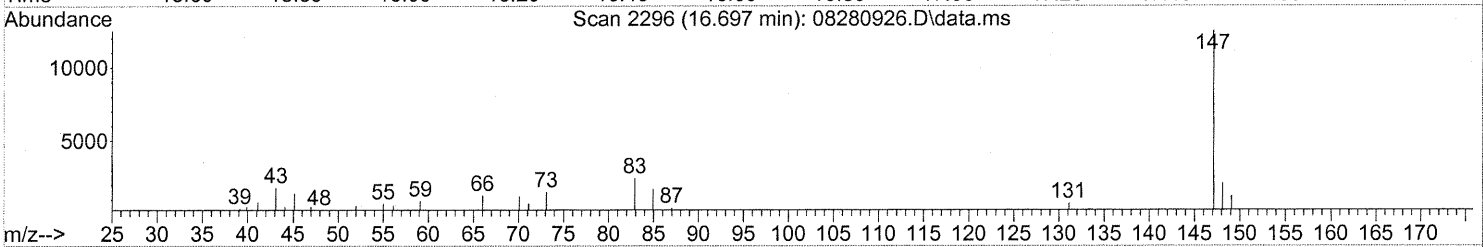
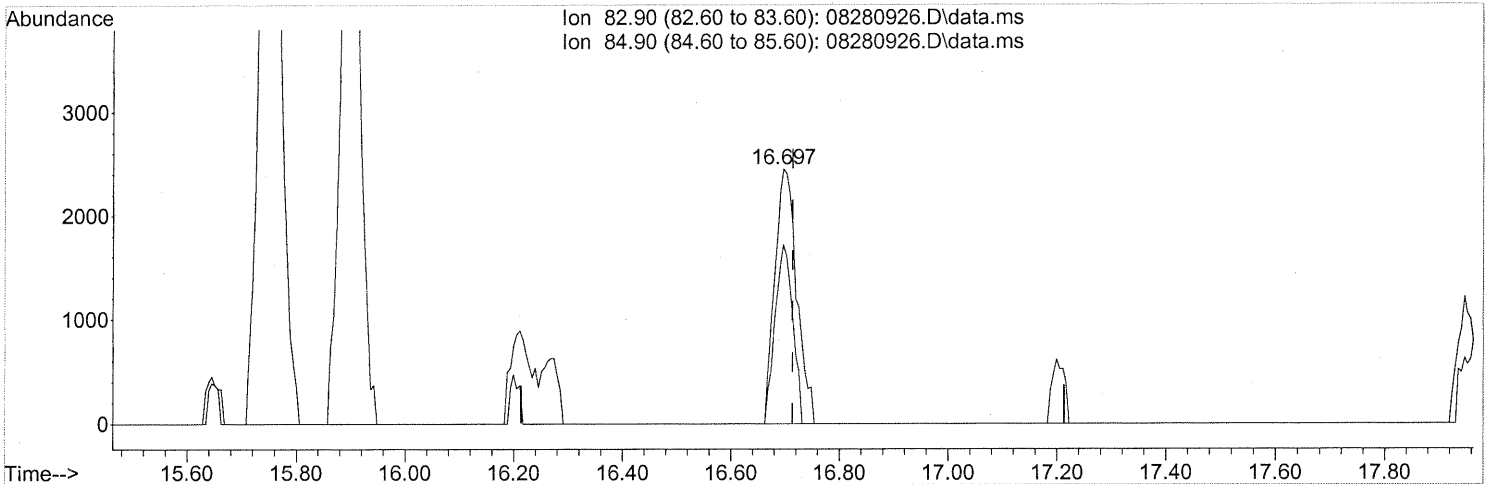
response 17433

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	94.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.697min (-0.017) 0.23ng

response 6840

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	56.59
0.00	0.00	0.00
0.00	0.00	0.00

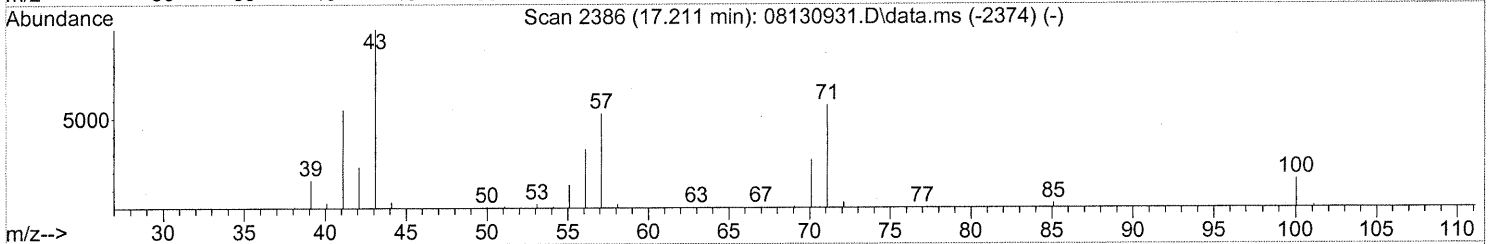
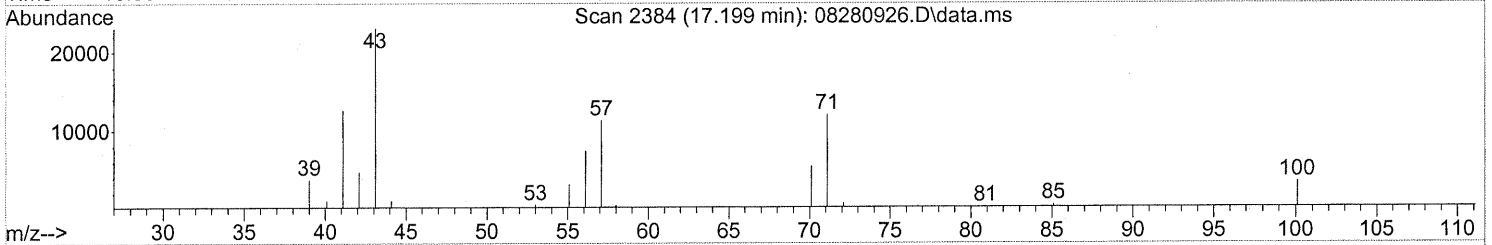
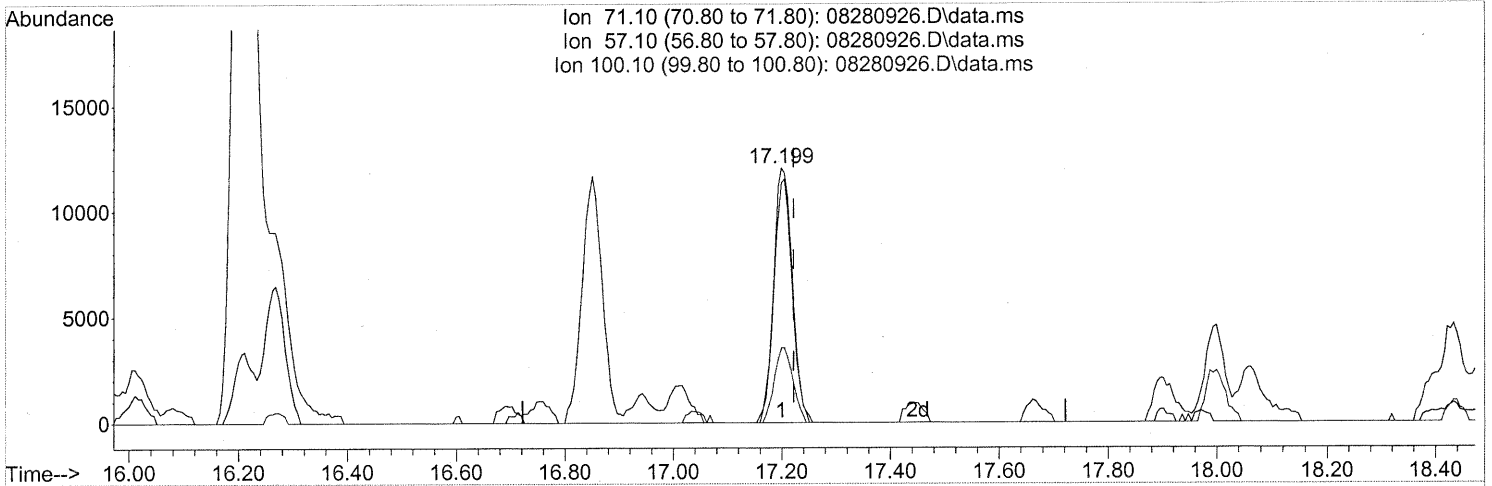
FP Em 9/1/09

12/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

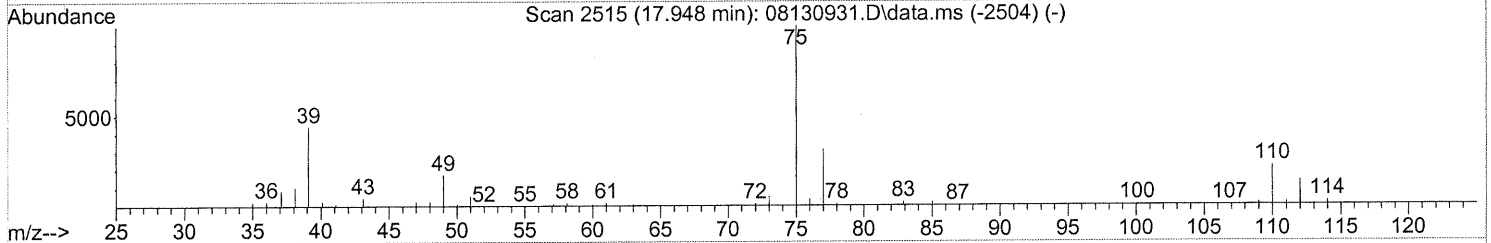
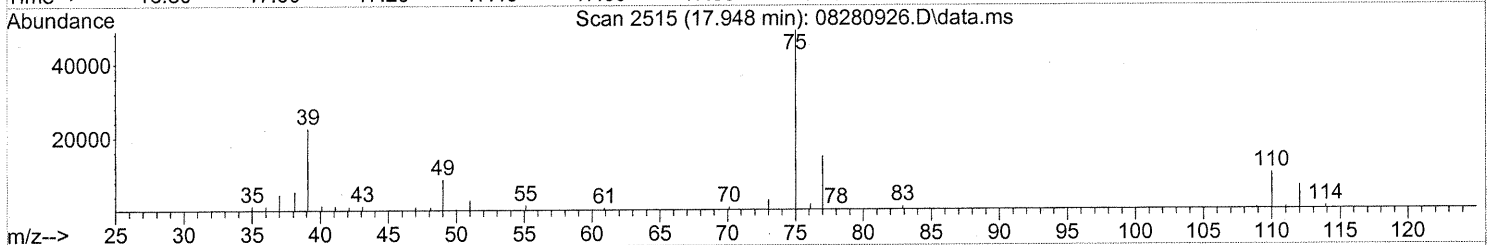
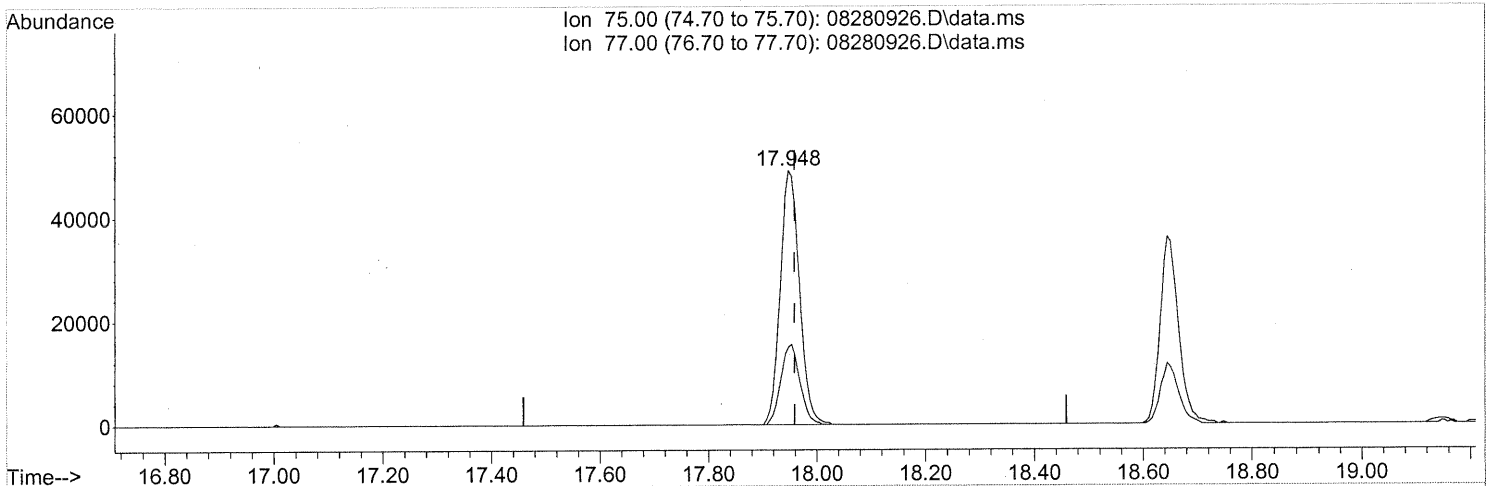
(51) n-Heptane (T)
 17.199min (-0.023) 1.08ng
 response 28607

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	94.31
100.10	30.70	29.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(52) cis-1,3-Dichloropropene (T)

17.948min (-0.011) 3.24ng

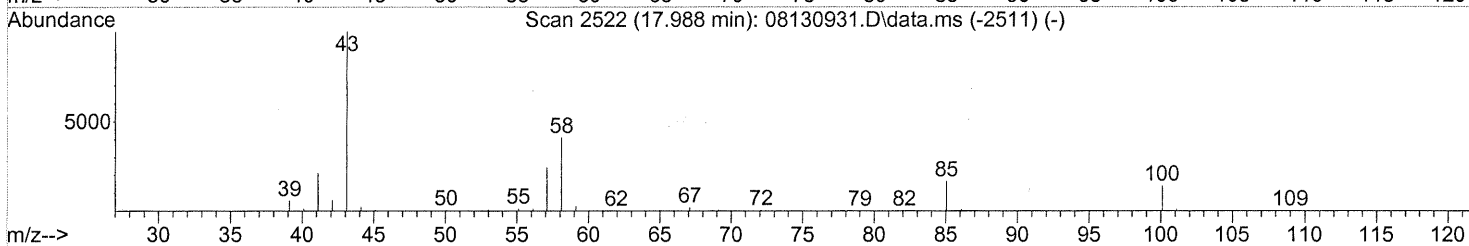
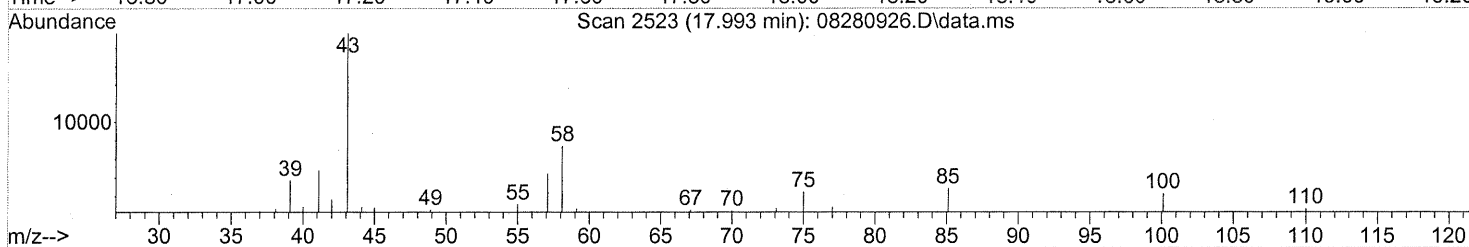
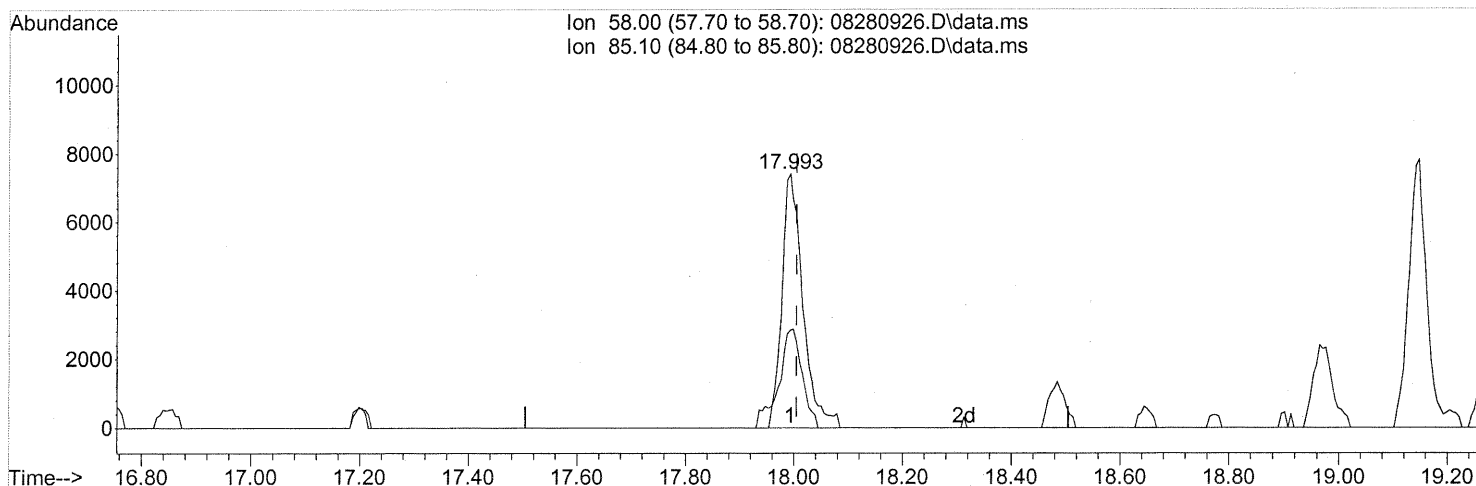
response 119529

Ion	Exp%	Act%
75.00	100	100
77.00	31.60	31.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

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

17.993min (-0.012) 0.92ng

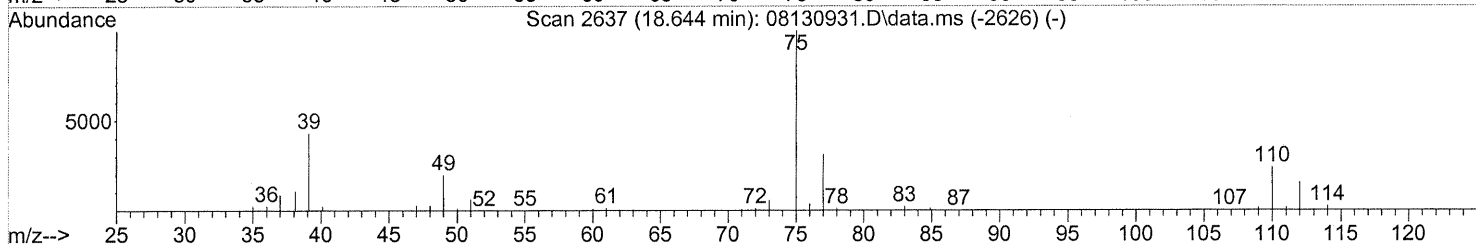
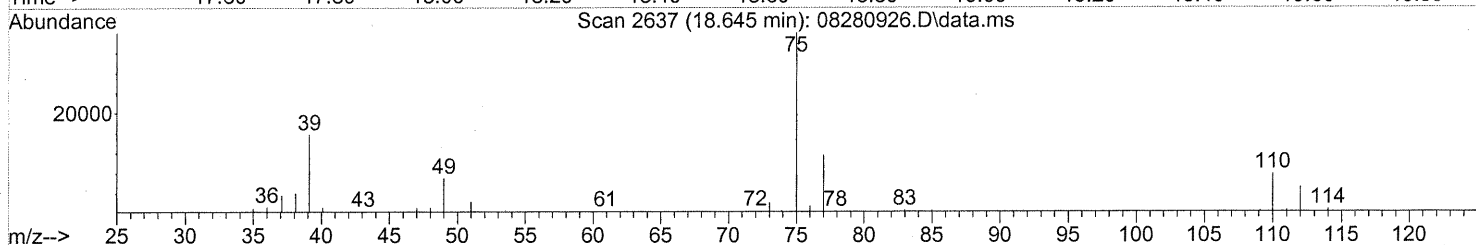
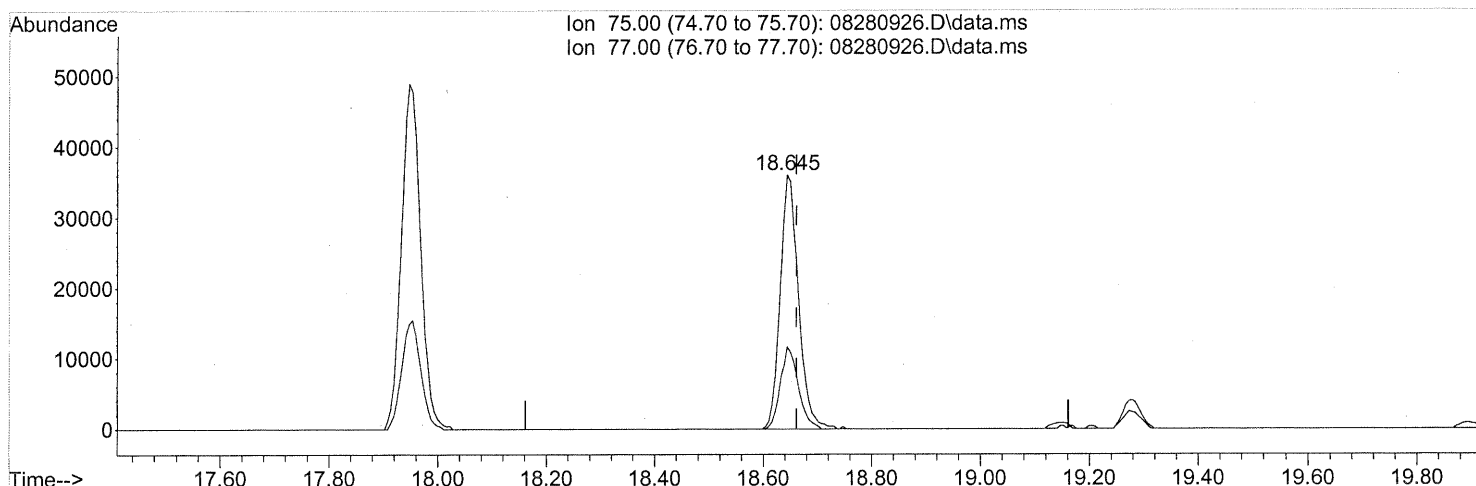
response 19921

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	43.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.645min (-0.017) 2.62ng

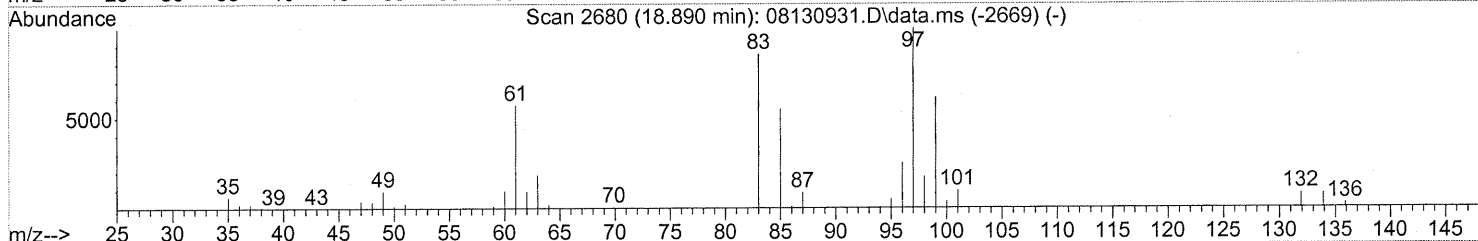
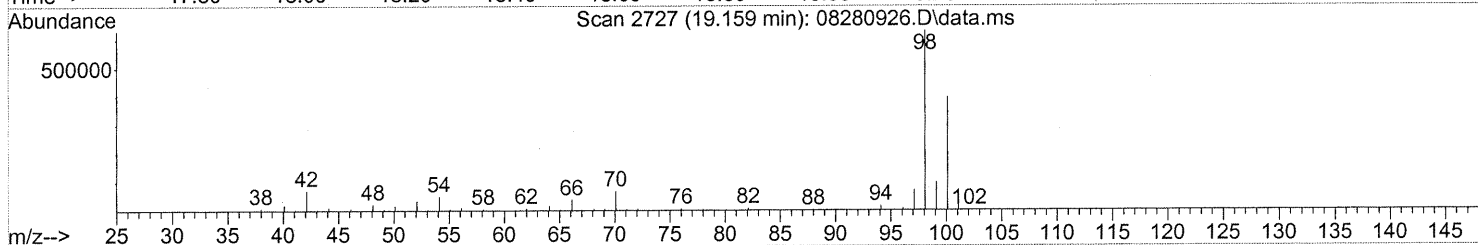
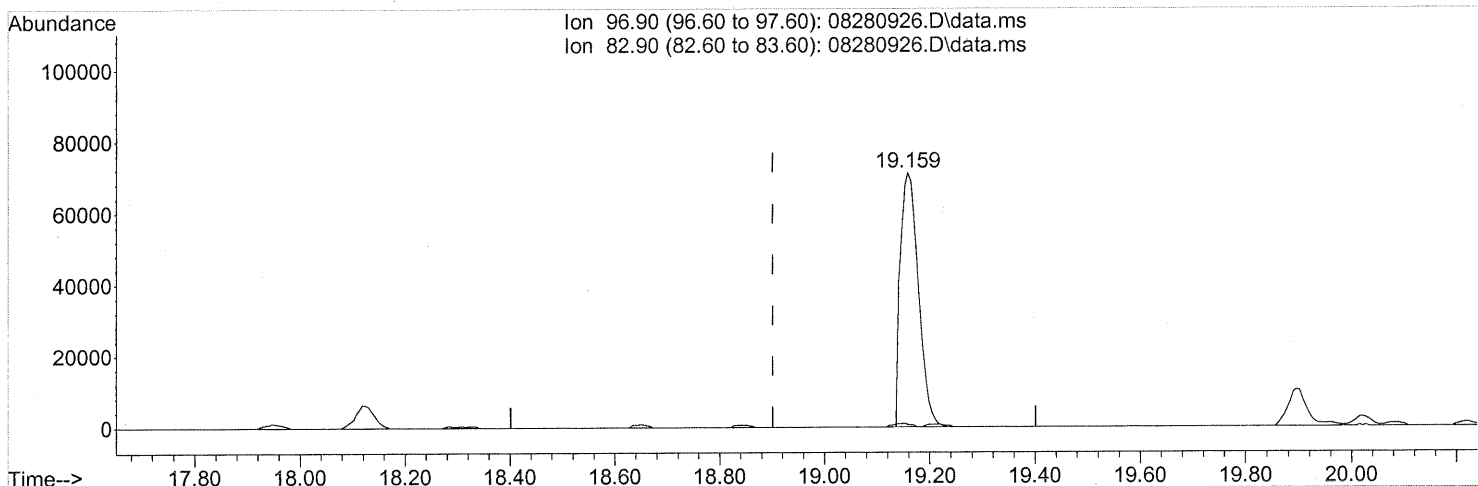
response 84442

Ion	Exp%	Act%
75.00	100	100
77.00	31.60	31.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

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

19.159min (+0.257) 7.94ng

response 169139

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.19#
0.00	0.00	0.00
0.00	0.00	0.00

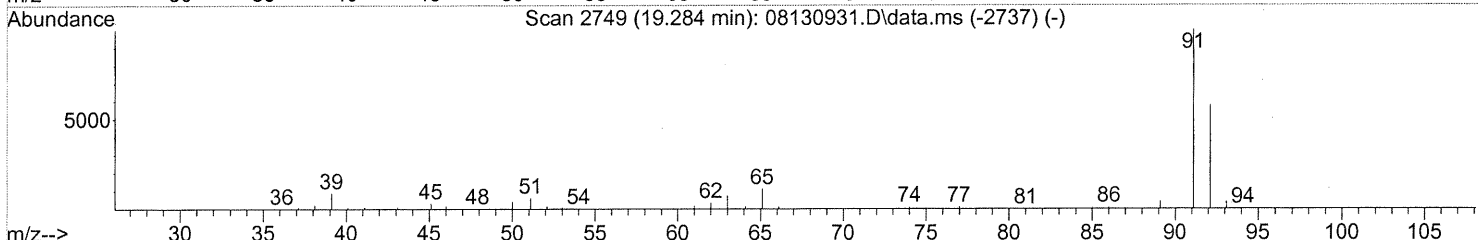
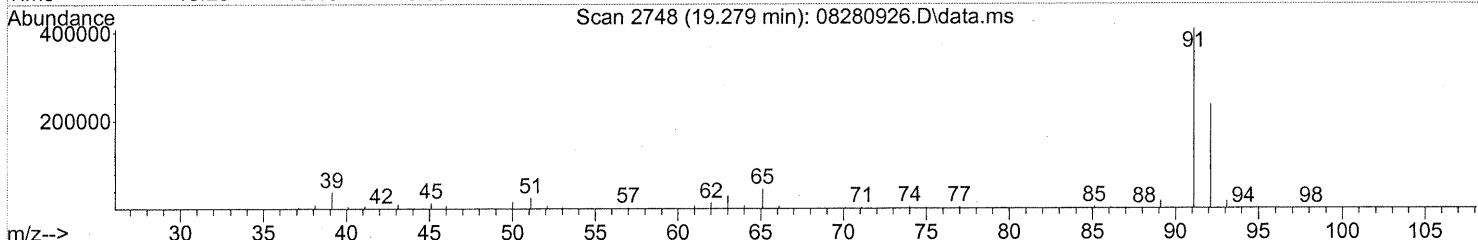
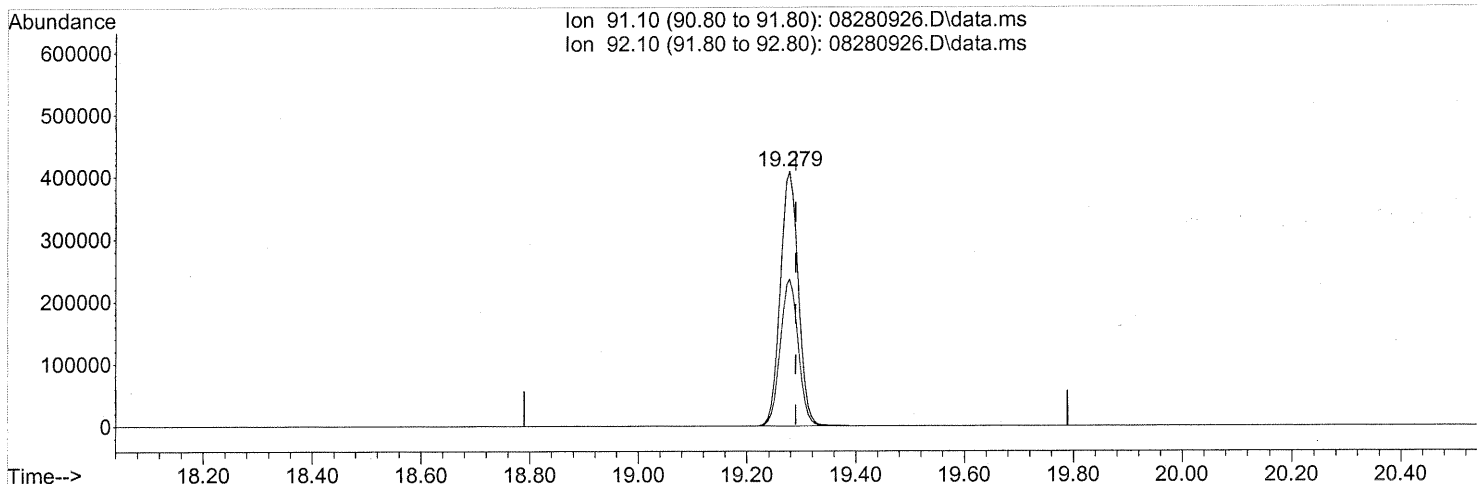
FP em 9/1/09

KEG/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 9.04ng

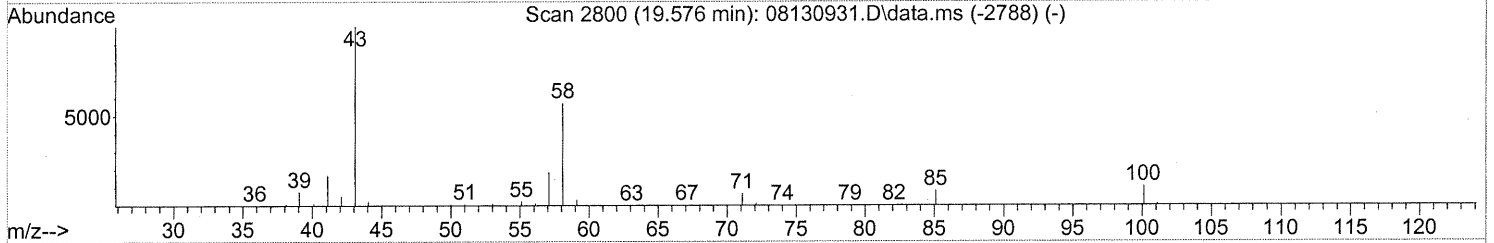
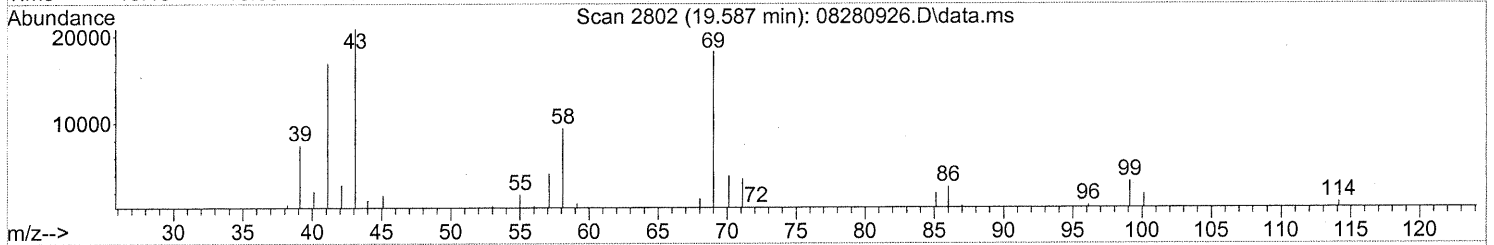
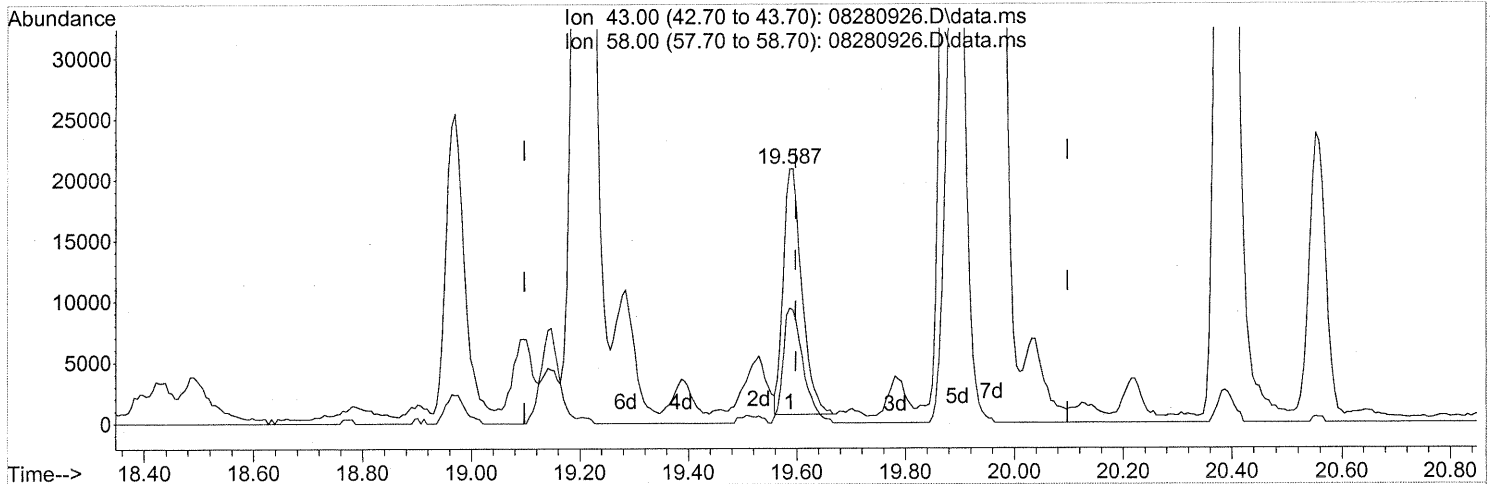
response 939065

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

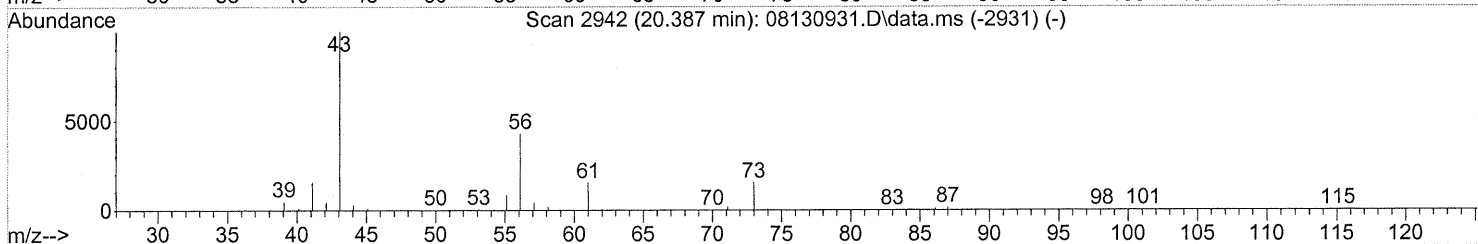
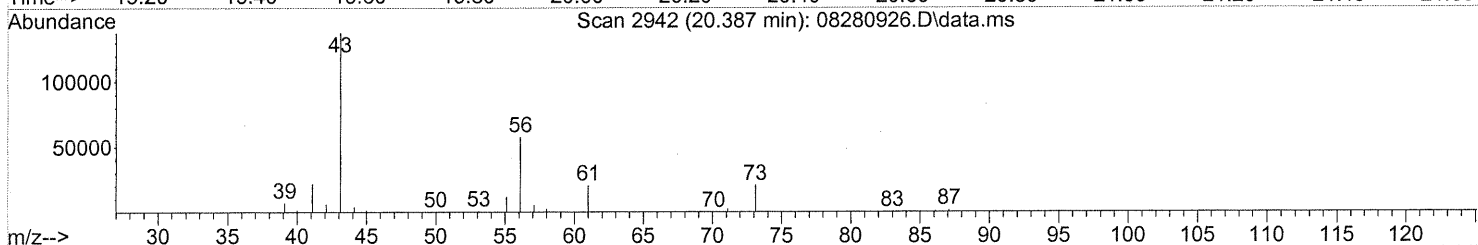
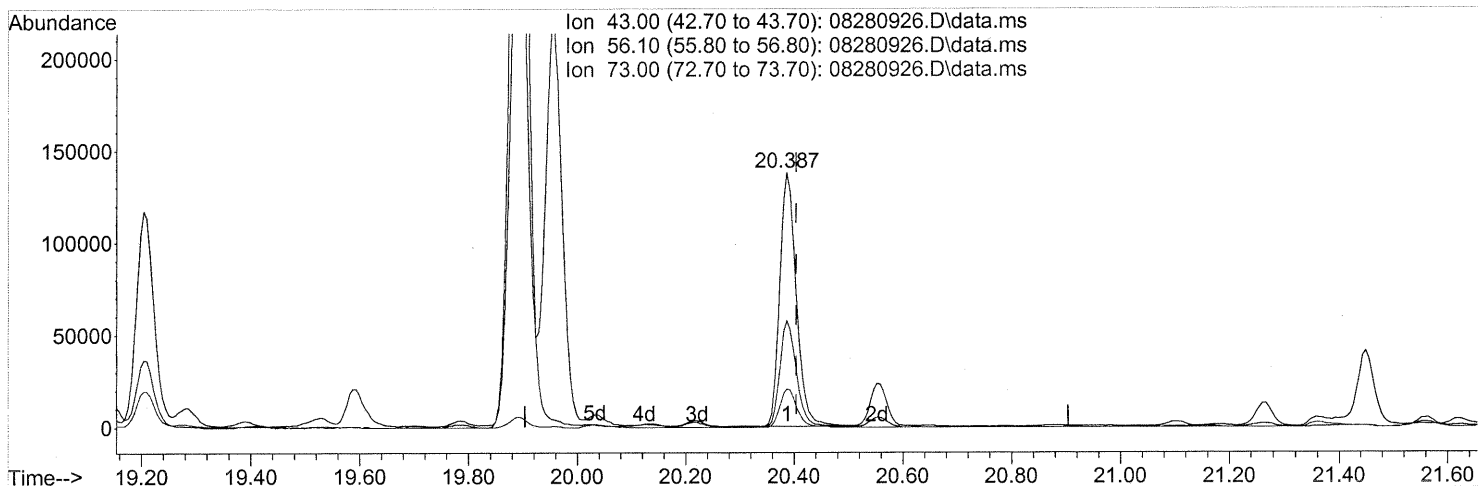
(59) 2-Hexanone (T)
 19.587min (-0.011) 0.89ng
 response 47934

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	50.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

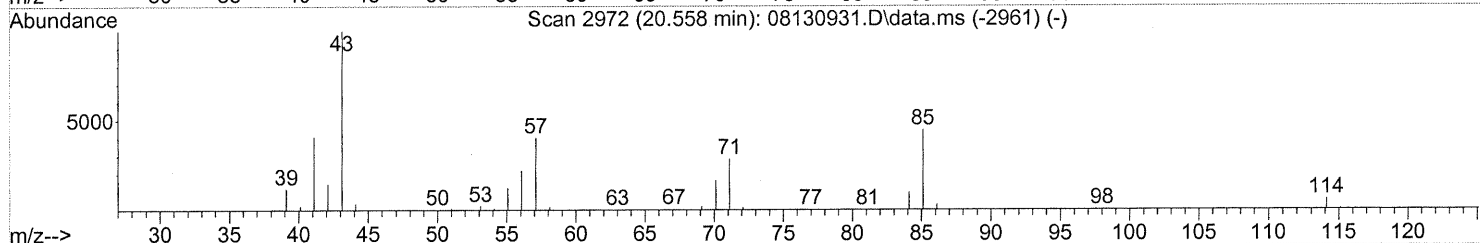
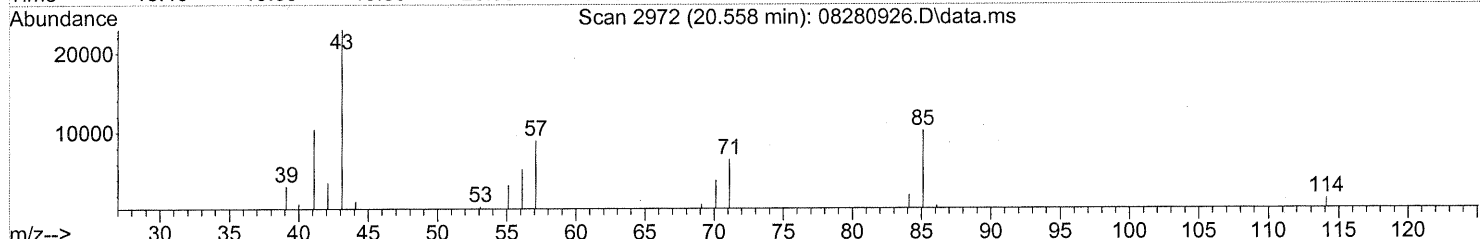
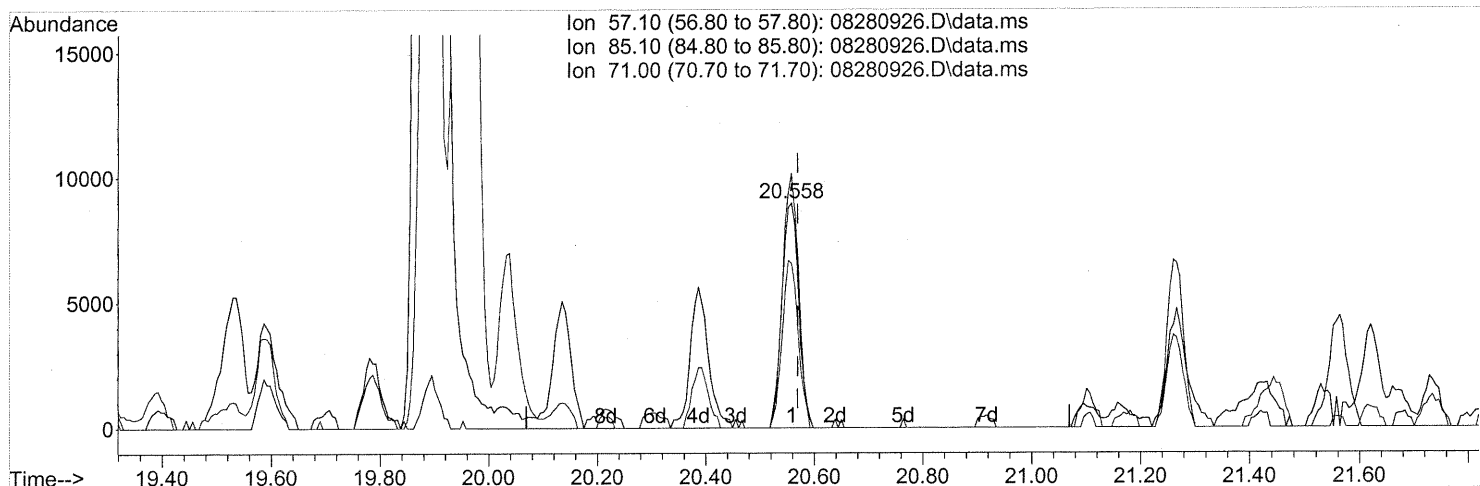
(62) n-Butyl Acetate (T)
 20.387min (-0.017) 4.93ng
 response 290032

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	42.34
73.00	16.90	15.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

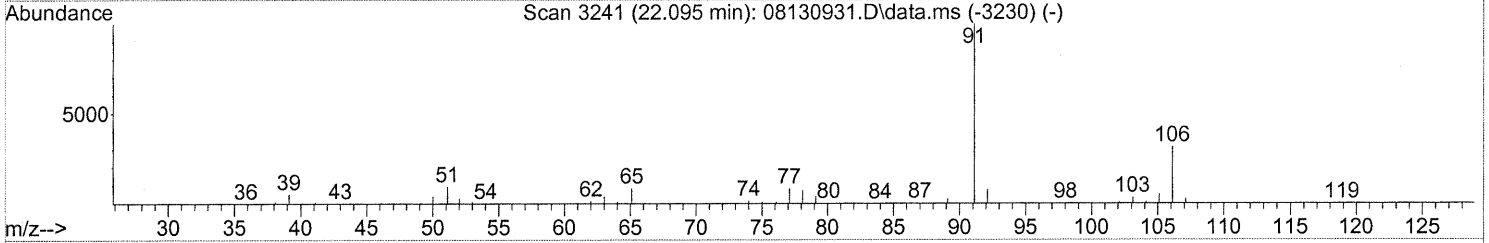
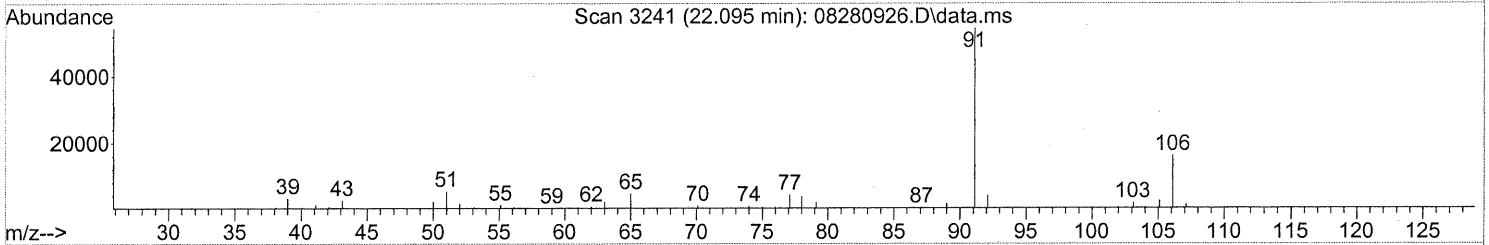
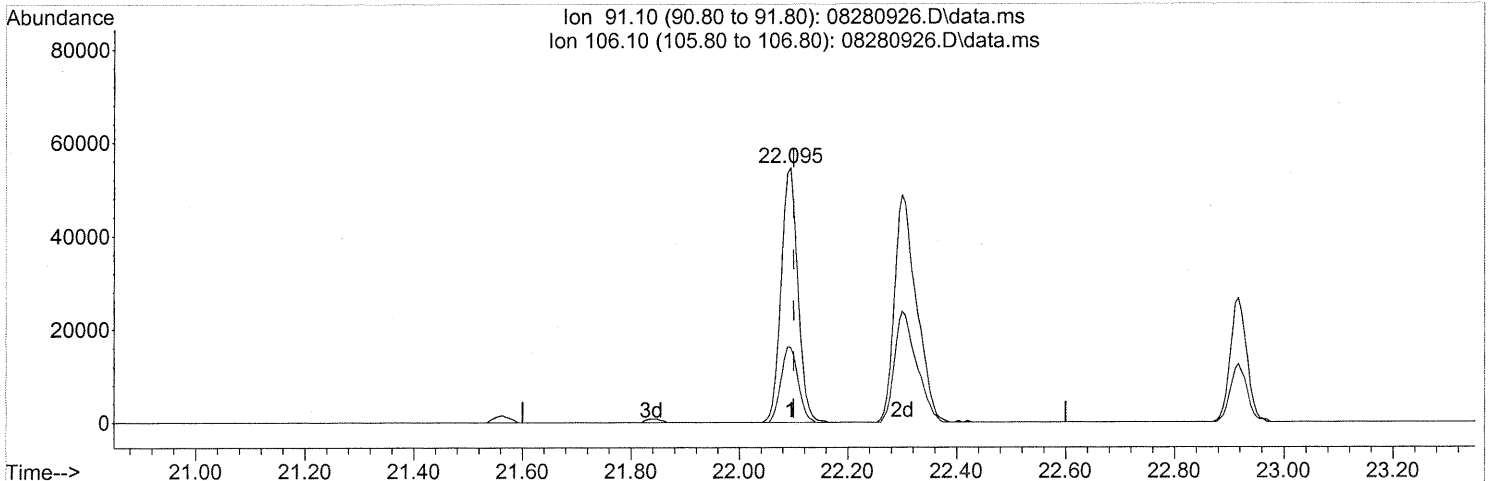
(63) n-Octane (T)
 20.558min (-0.011) 0.83ng
 response 19279

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	107.96
71.00	75.10	70.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

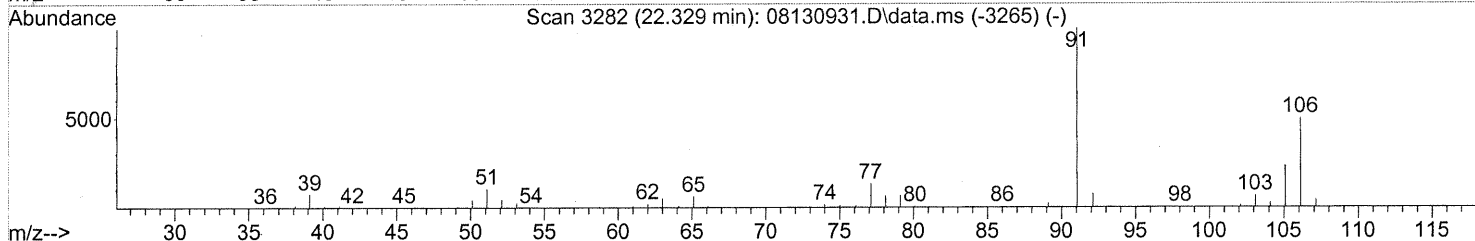
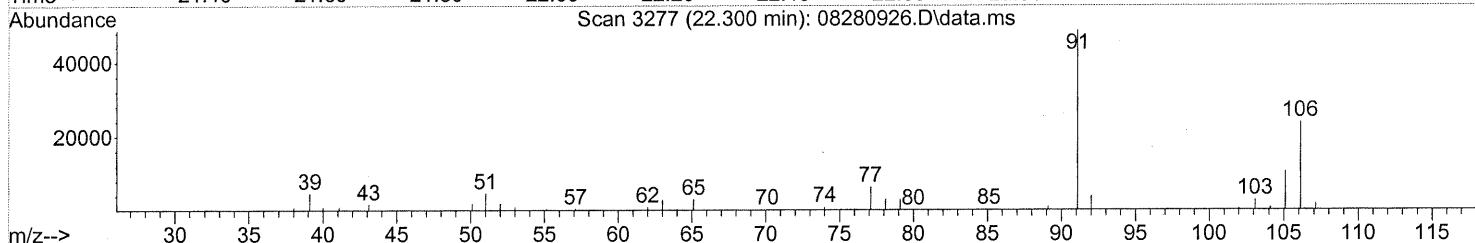
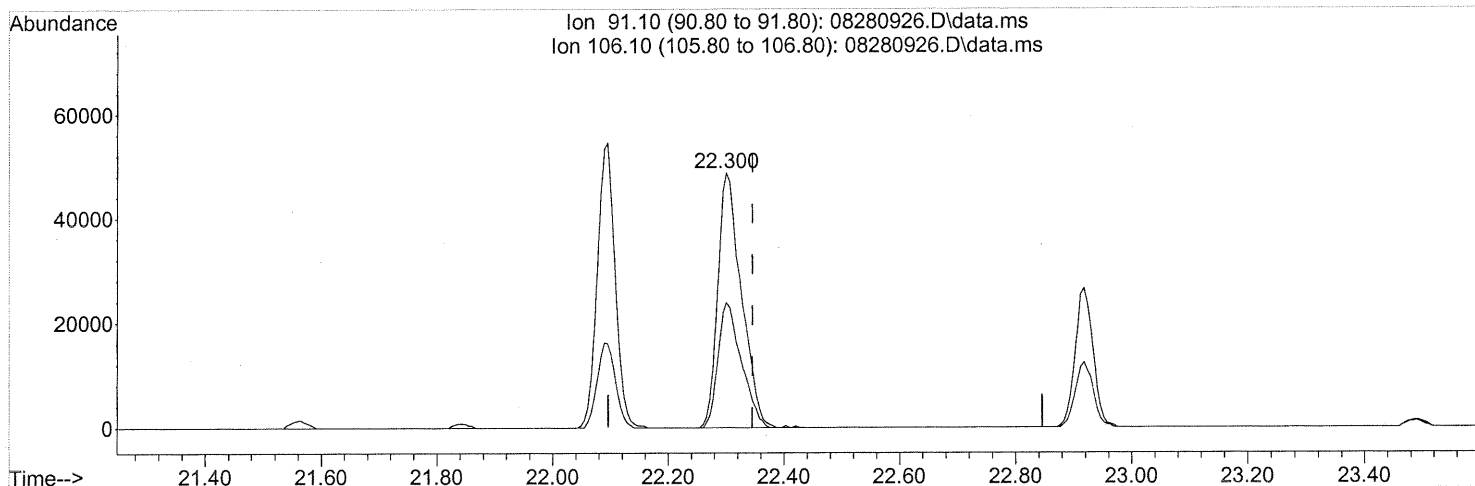
(66) Ethylbenzene (T)
 22.095min (-0.006) 1.04ng
 response 116849

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

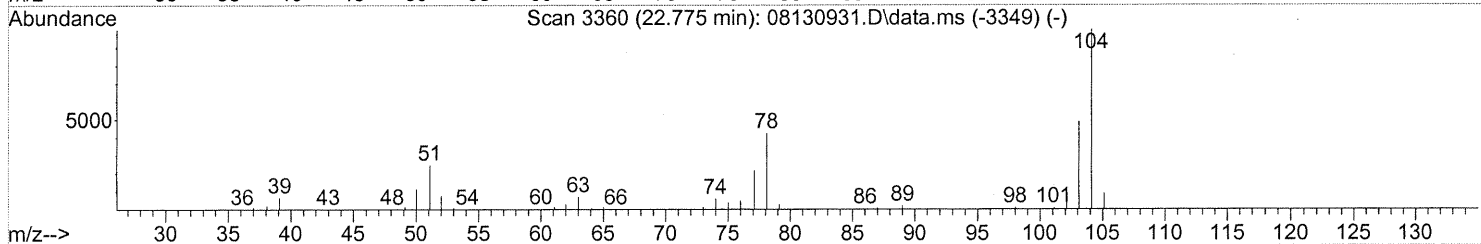
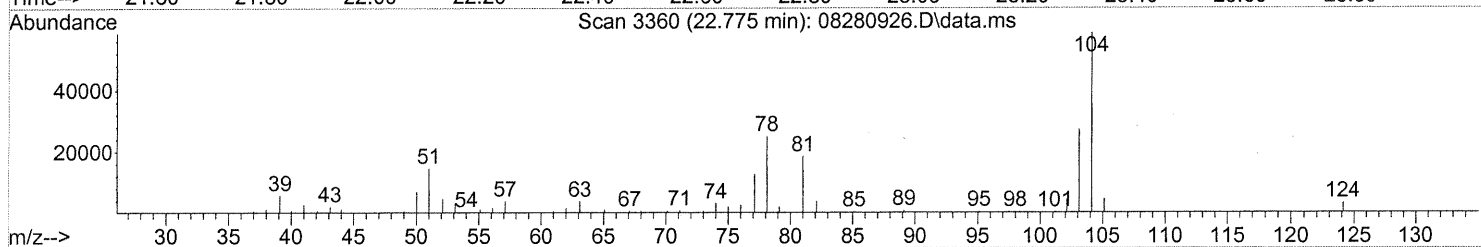
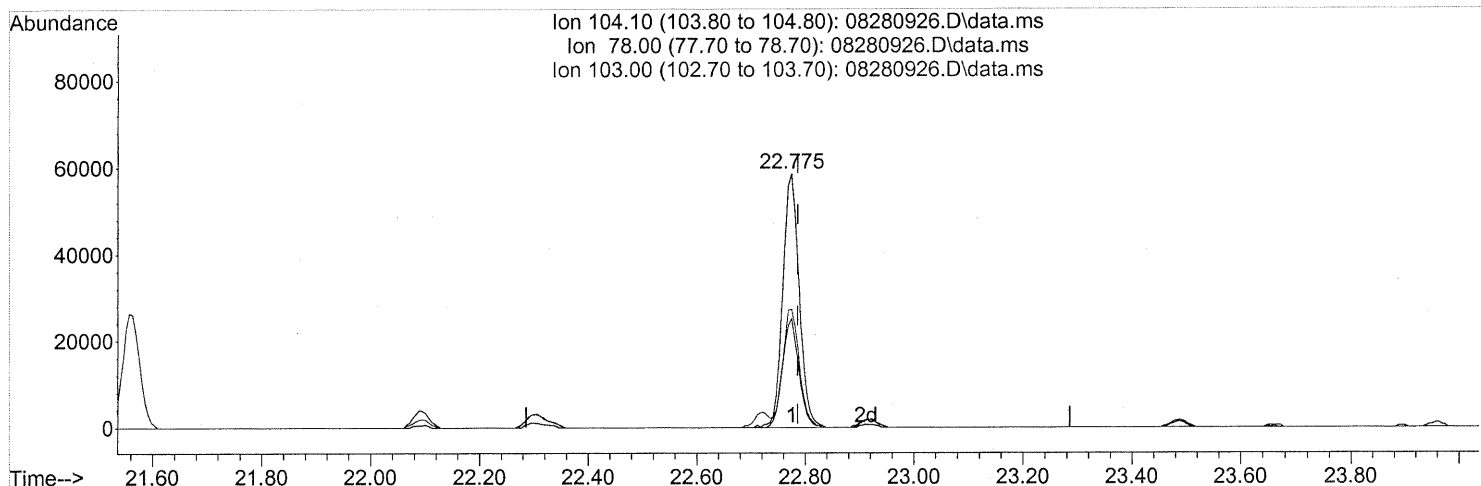
(67) m- & p-Xylenes (T)
 22.300min (-0.046) 1.54ng
 response 137052

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	48.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

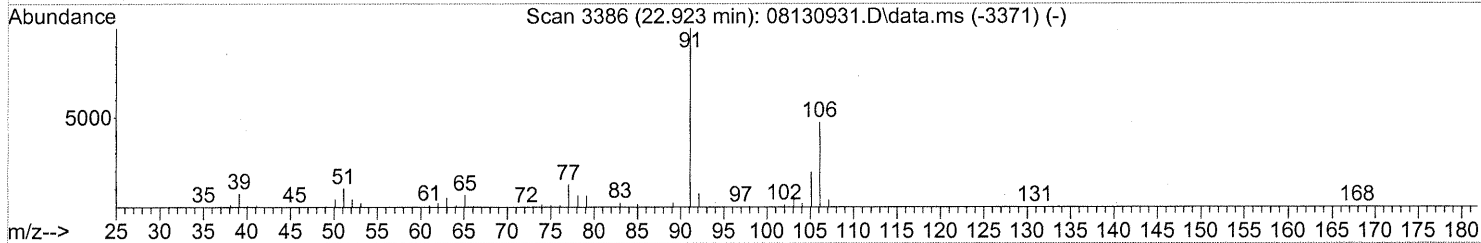
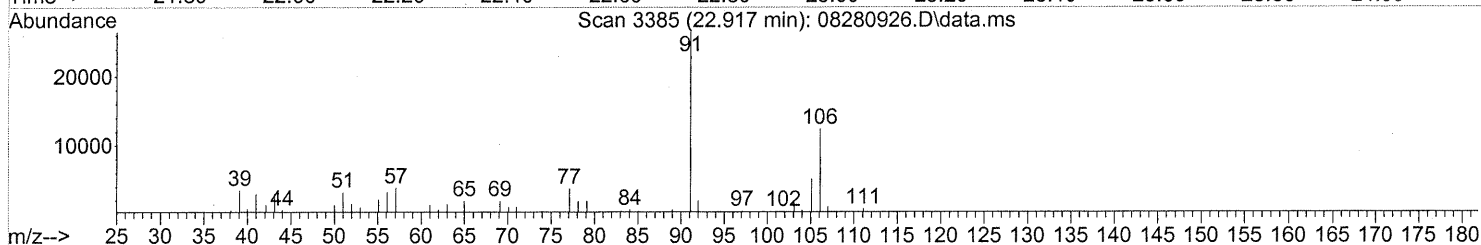
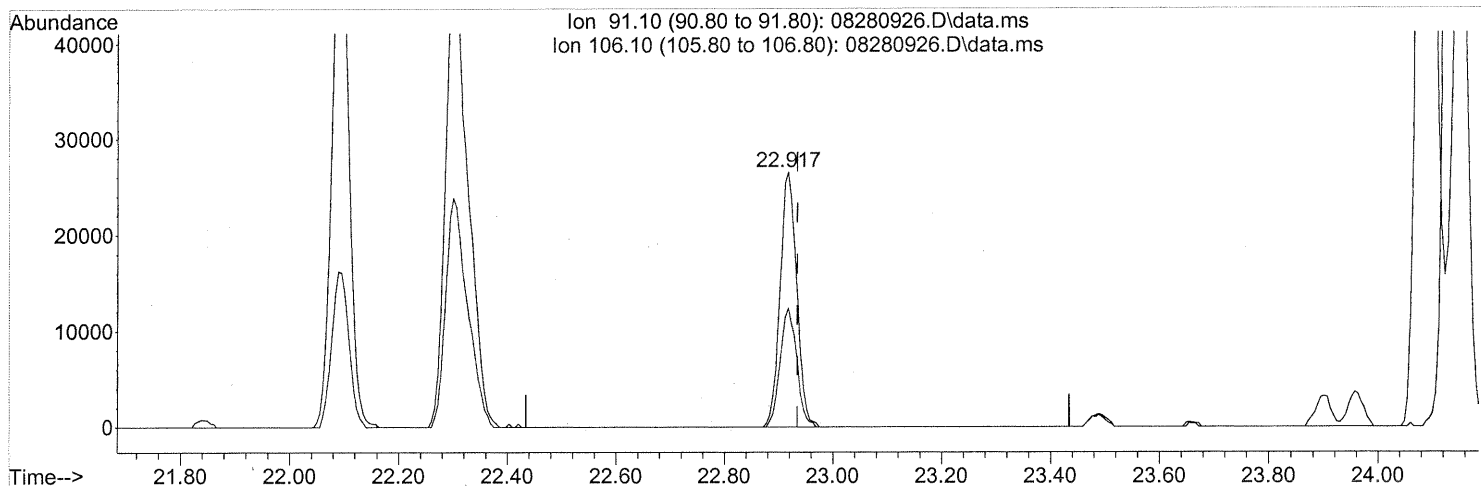
(69) Styrene (T)
 22.775min (-0.011) 1.87ng
 response 122923

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	42.44
103.00	48.70	47.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



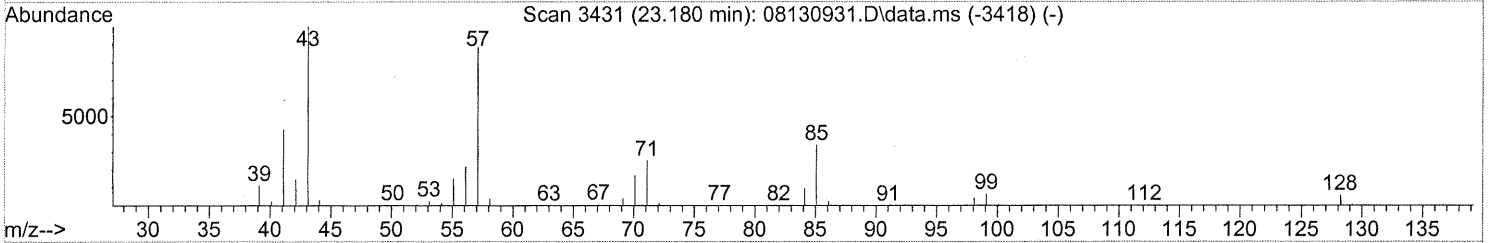
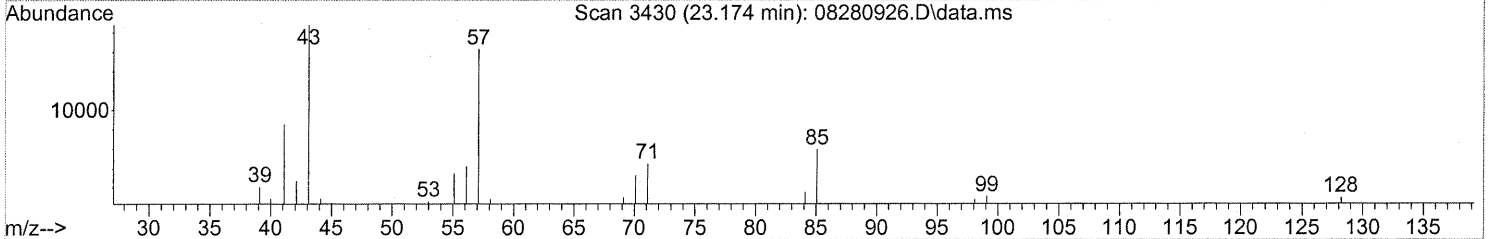
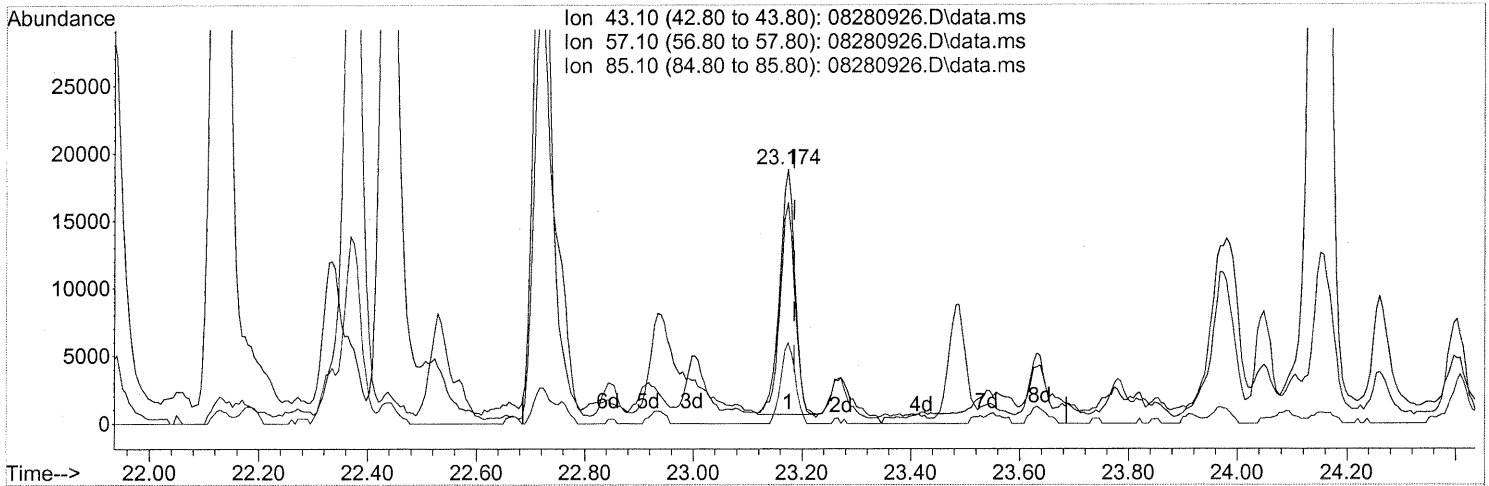
(70) o-Xylene (T)
 22.917min (-0.017) 0.63ng
 response 56308

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

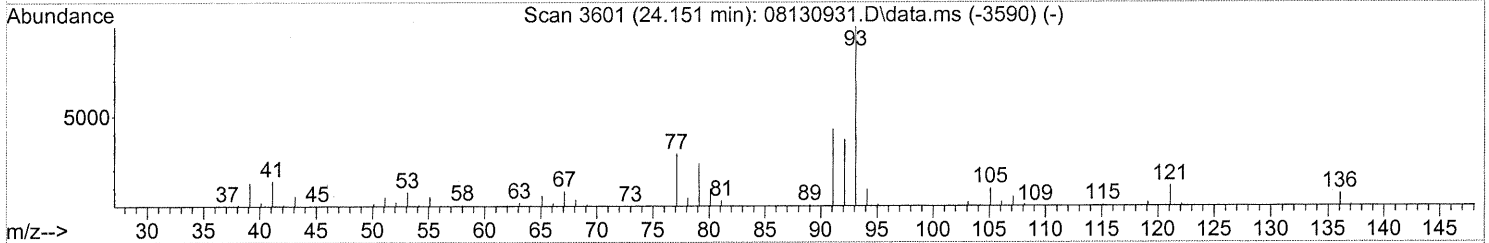
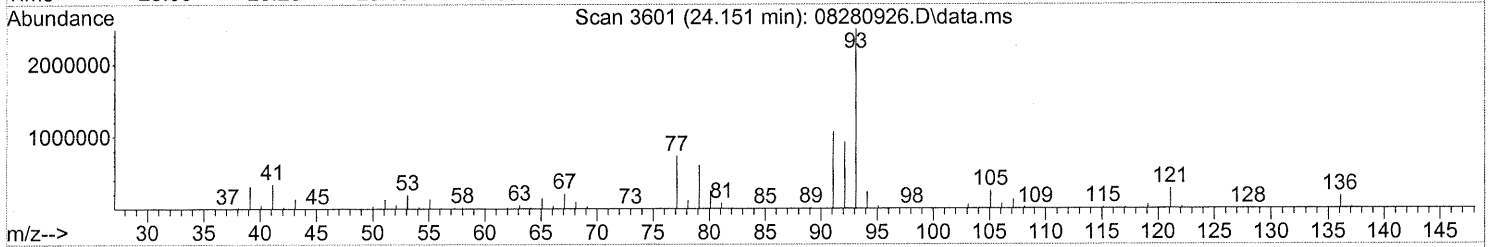
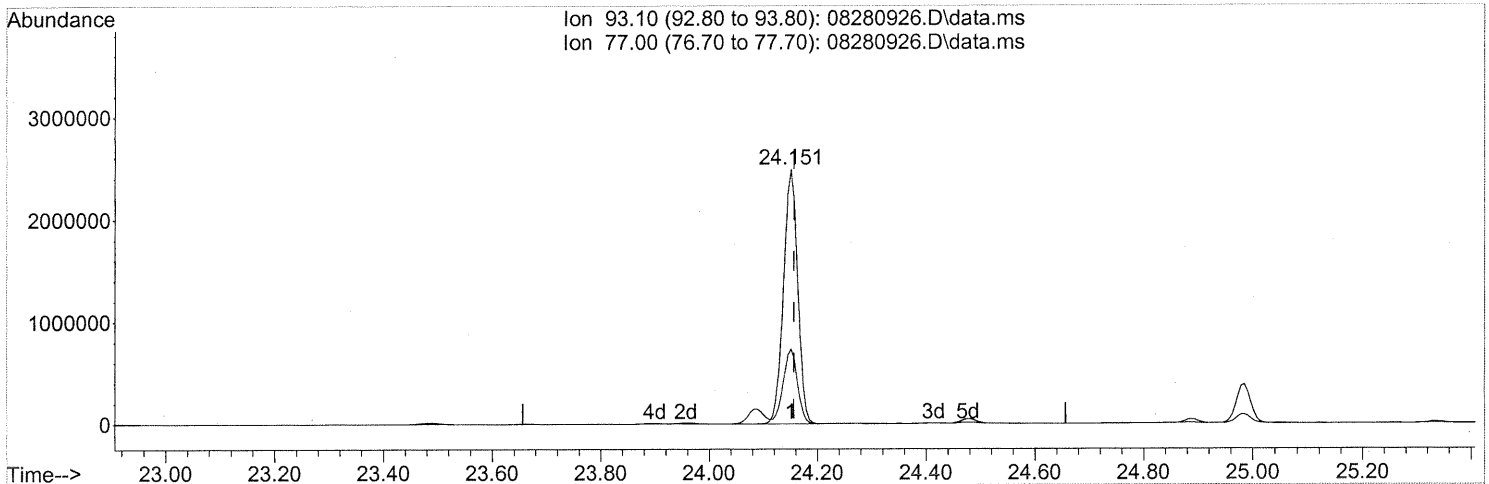
(71) n-Nonane (T)
 23.174min (-0.011) 0.66ng
 response 35376

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	88.48
85.10	38.80	30.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

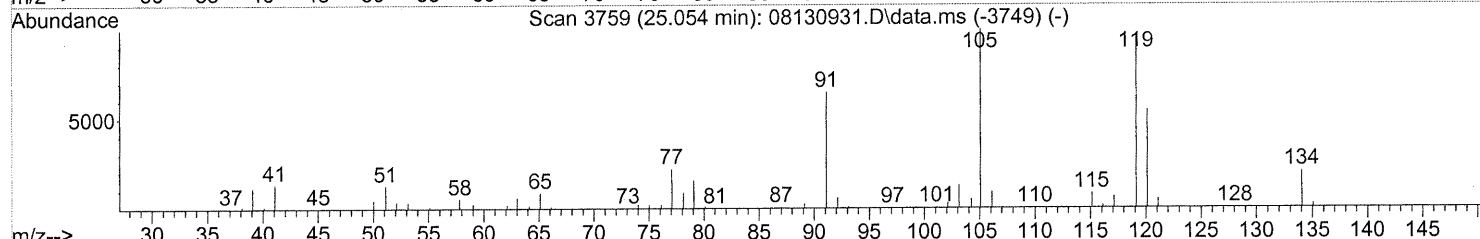
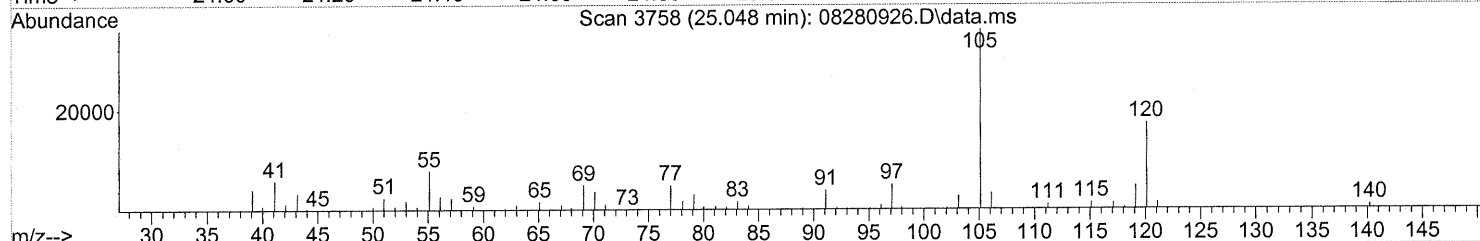
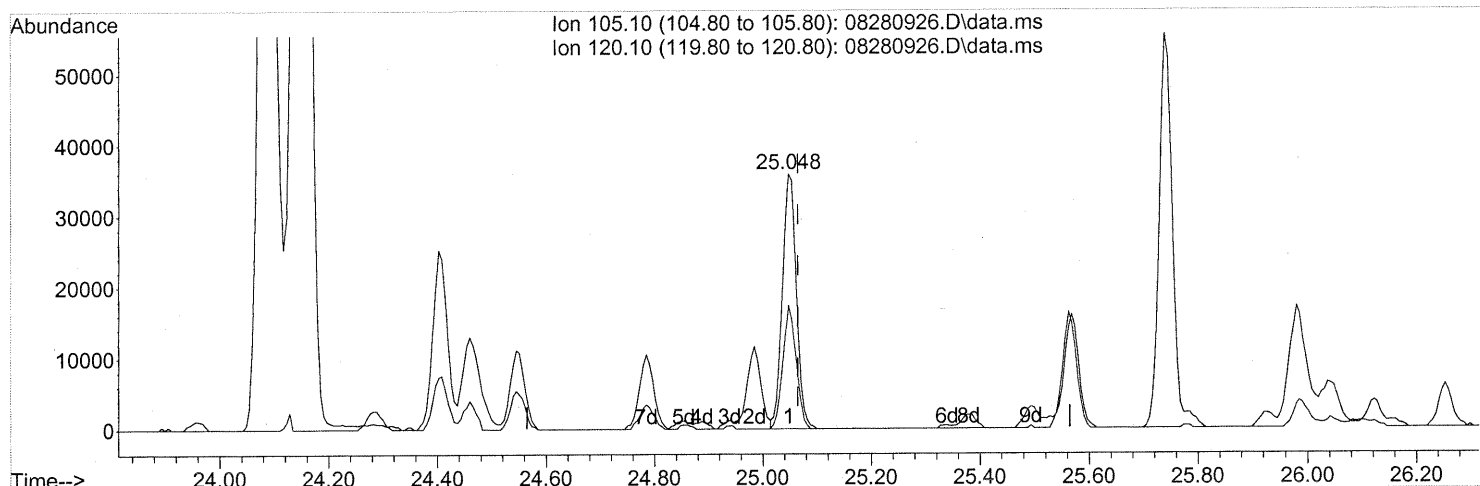
(75) alpha-Pinene (T)
 24.151min (-0.006) 79.65ng
 response 4555587

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

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

25.048min (-0.017) 0.67ng

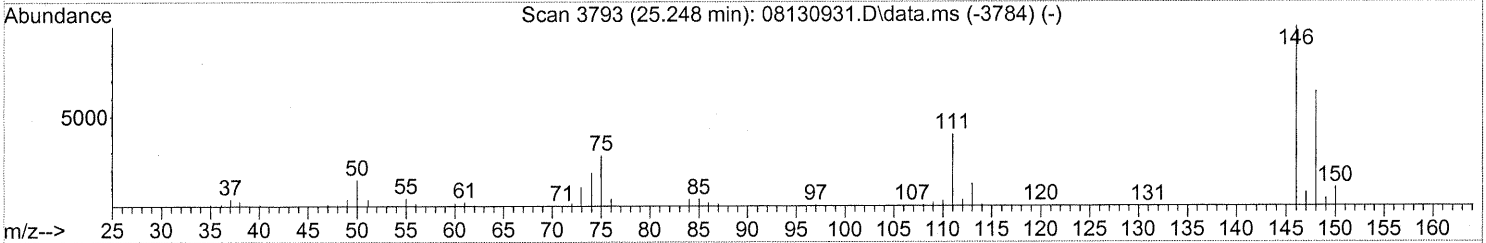
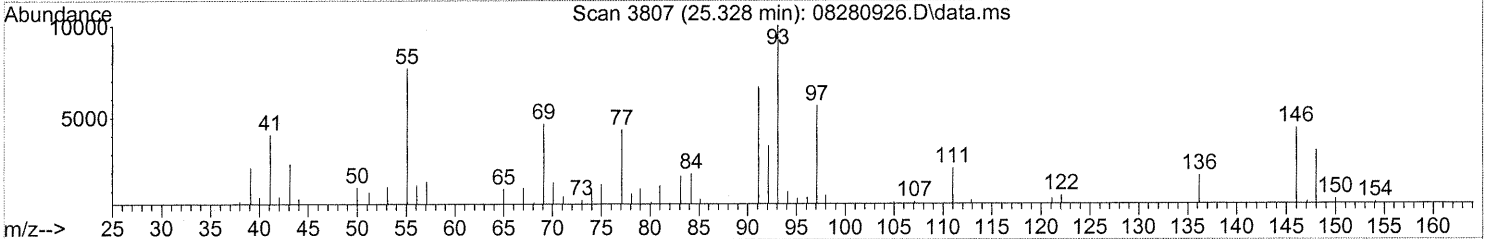
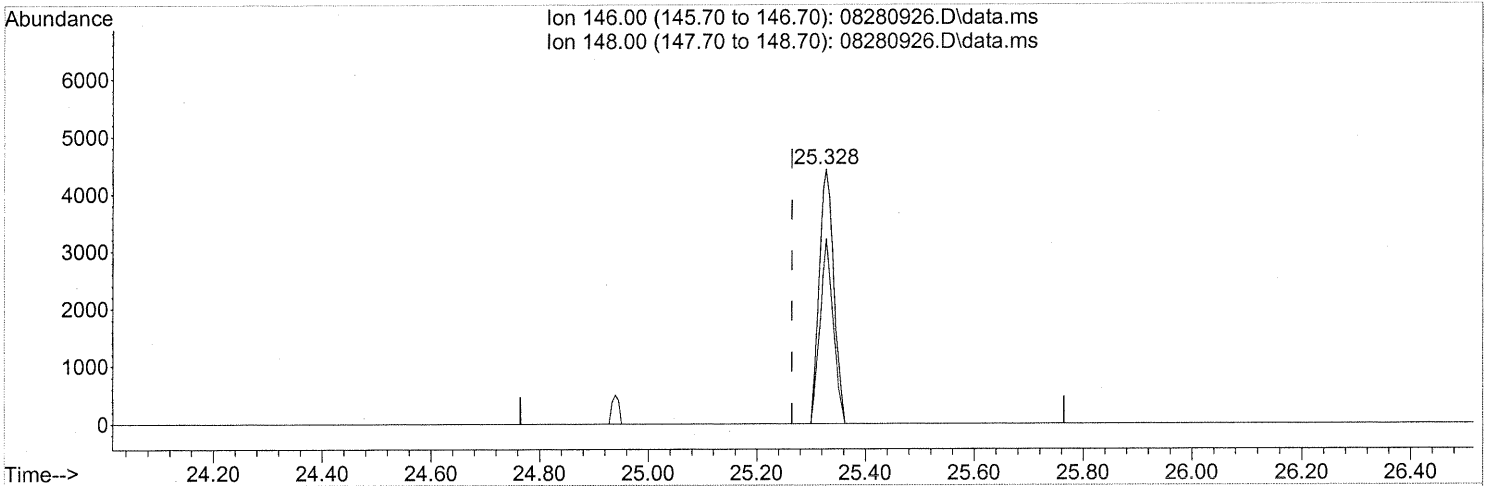
response 64230

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.328min (+0.063) 0.17ng

response 8236

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	65.53
0.00	0.00	0.00
0.00	0.00	0.00

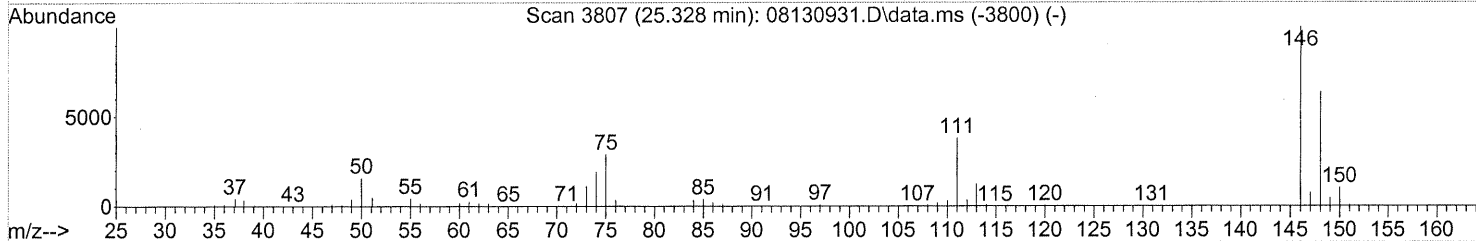
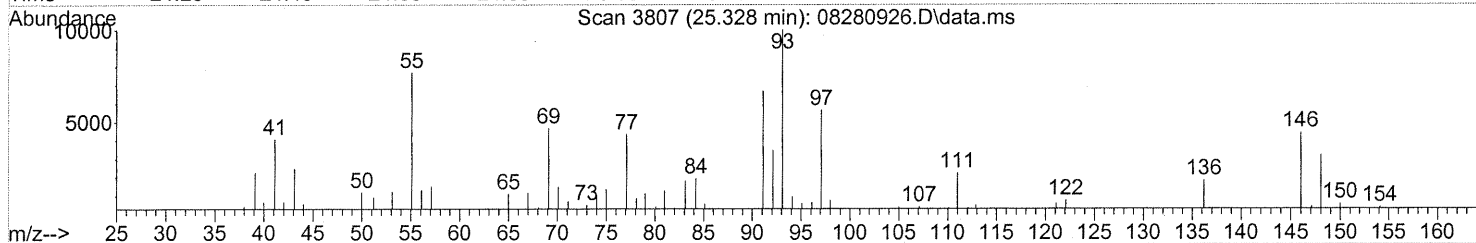
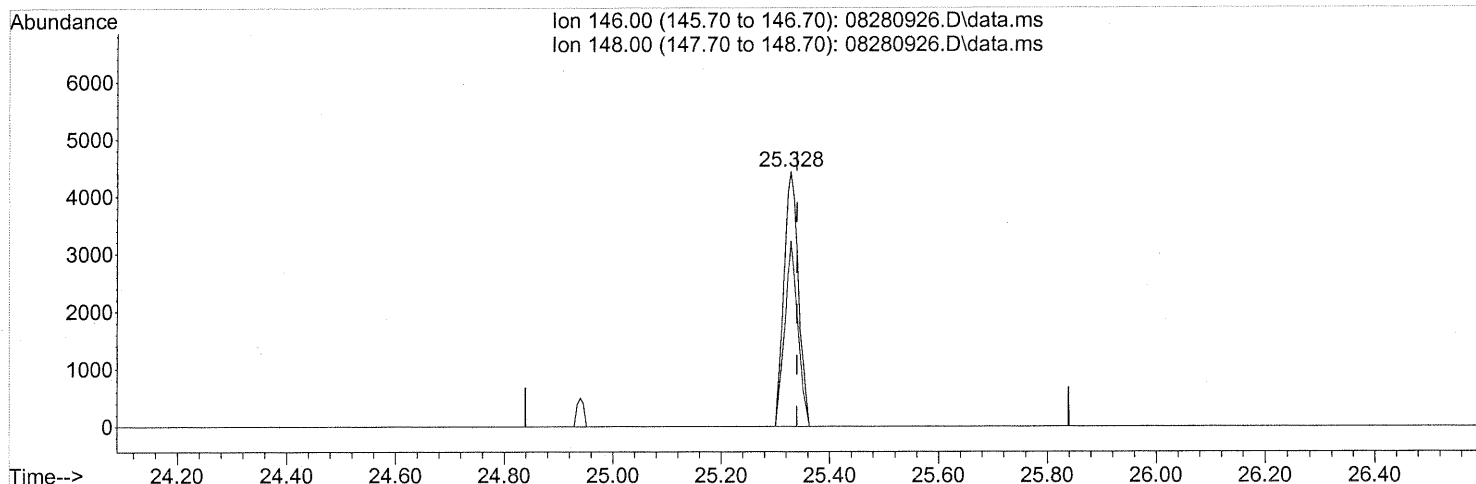
FP em 9/1/09

KE 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.16ng

response 8236

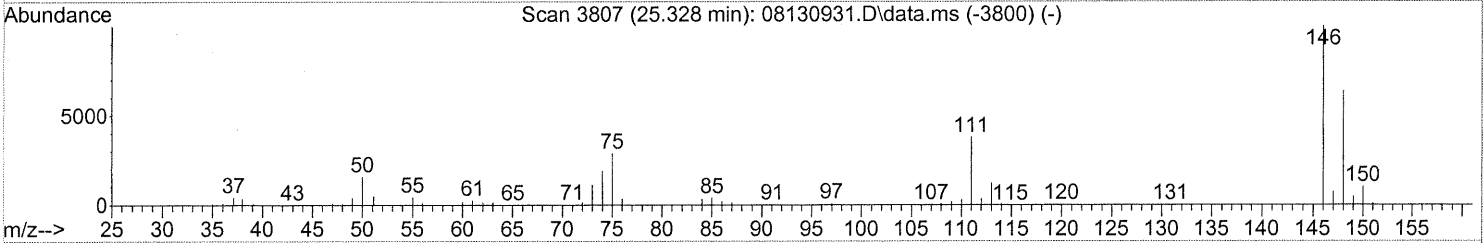
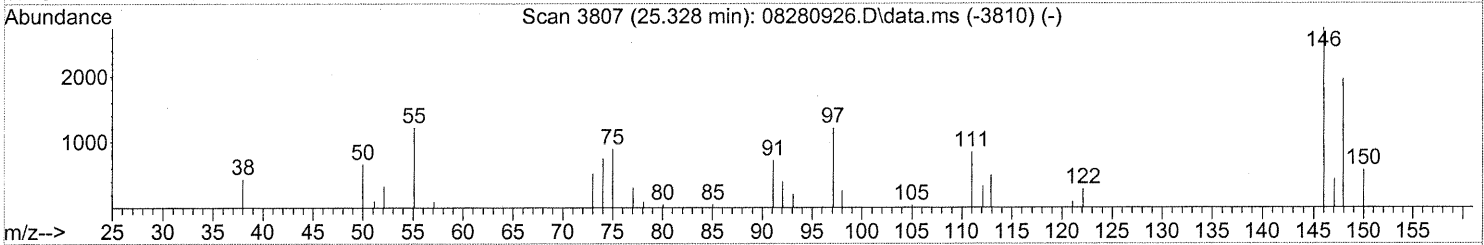
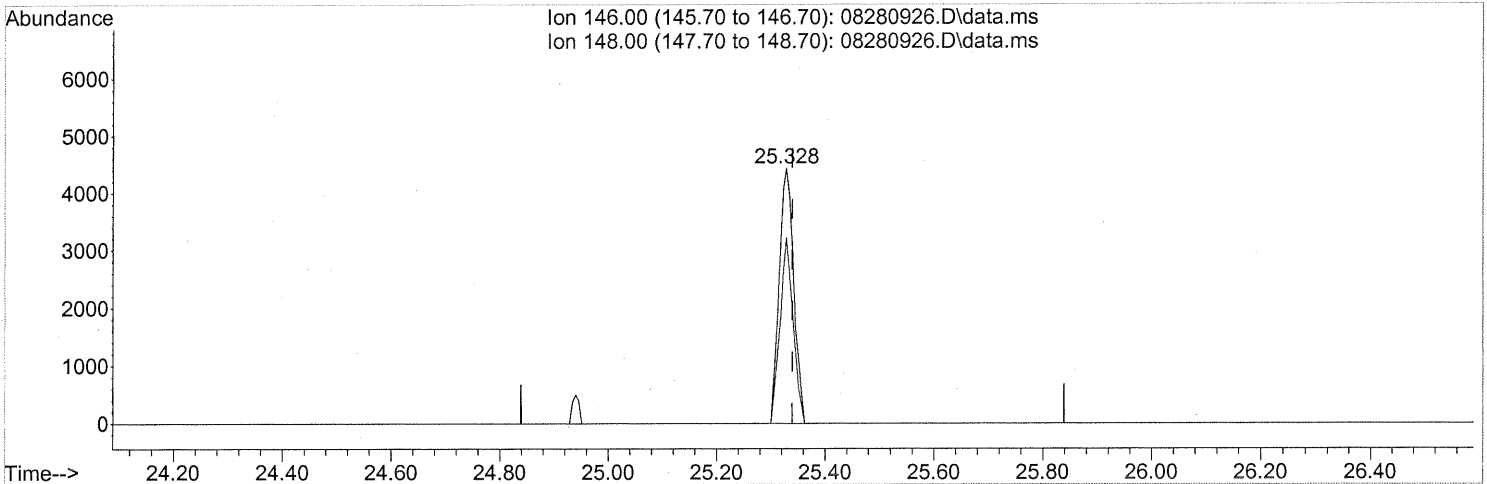
Ion	Exp%	Act%
146.00	100	100
148.00	64.00	65.53
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.16ng

response 8236

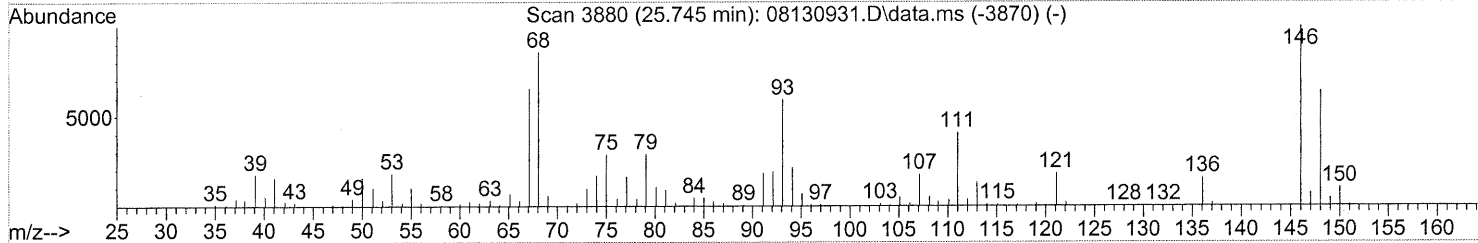
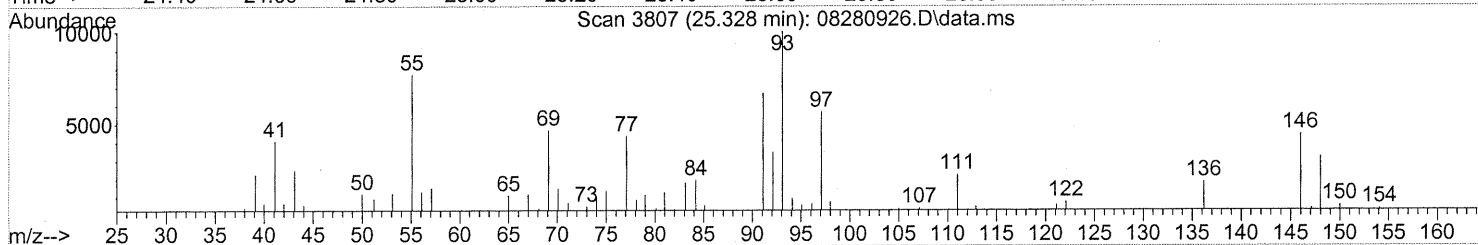
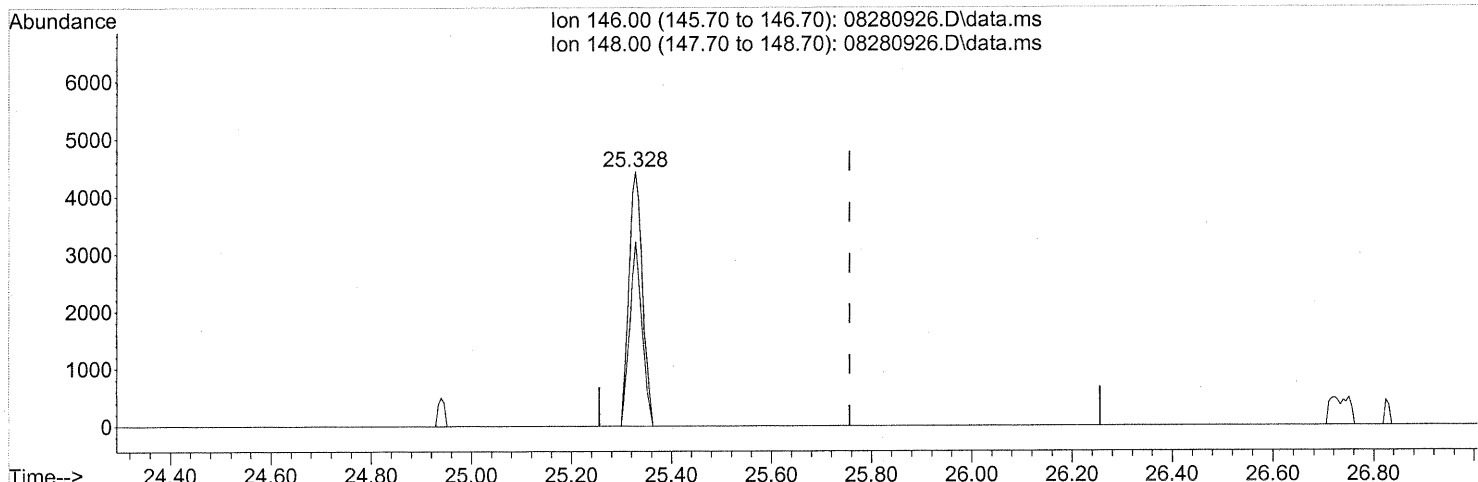
Ion	Exp%	Act%
146.00	100	100
148.00	64.00	65.53
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
em 9/1/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280926.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.328min (-0.428) 0.17ng

response 8236

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	65.53
0.00	0.00	0.00
0.00	0.00	0.00

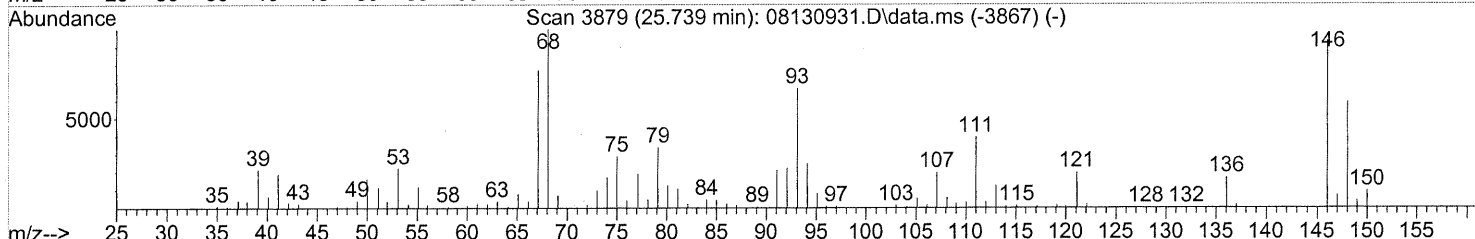
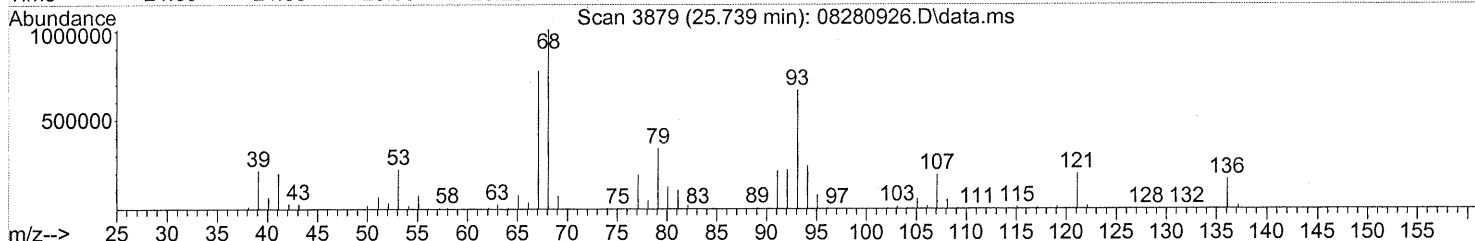
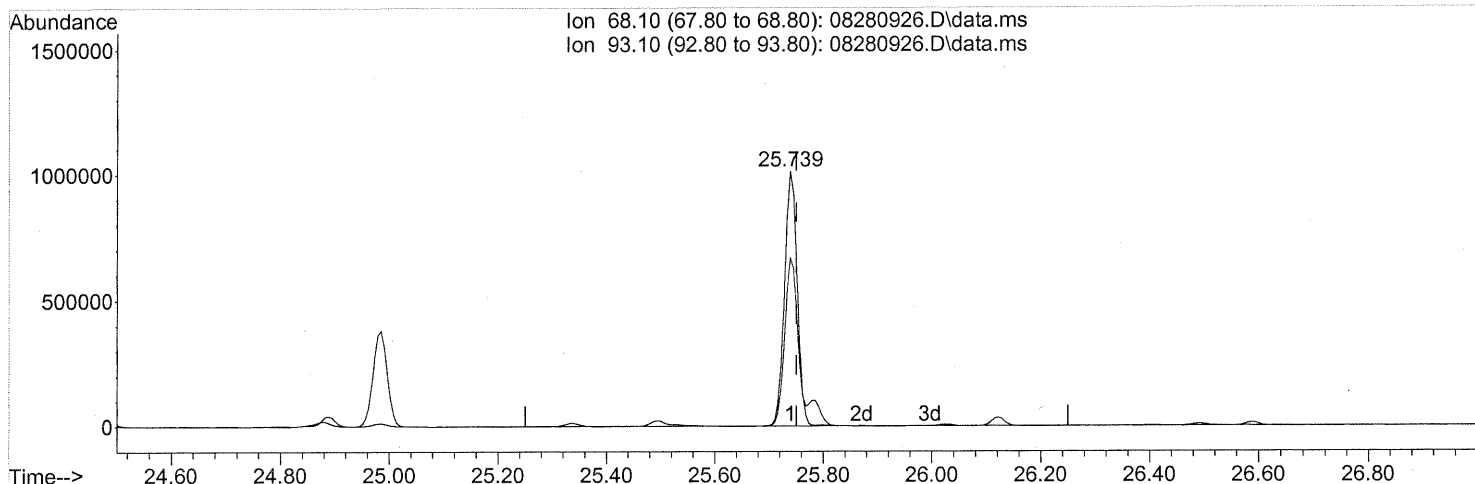
FP em 9/1/09

429/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



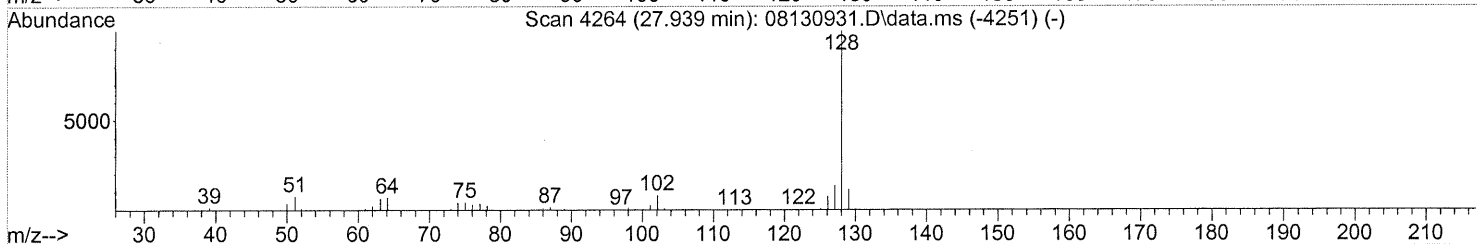
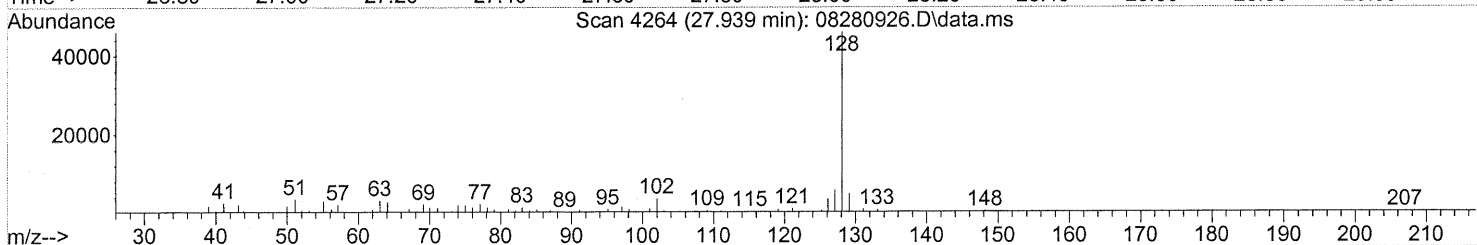
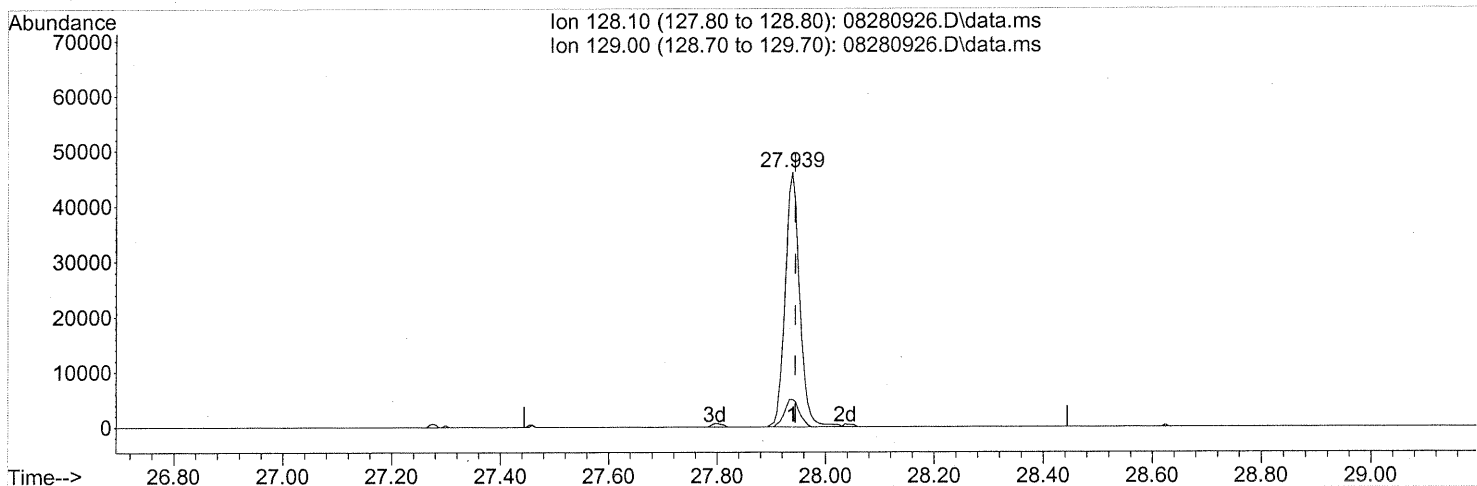
(91) d-Limonene (T)
 25.739min (-0.011) 41.97ng
 response 1645806

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	77.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280926.D
 Acq On : 28 Aug 2009 23:48
 Operator : EM
 Sample : P0902899-004 (1000ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



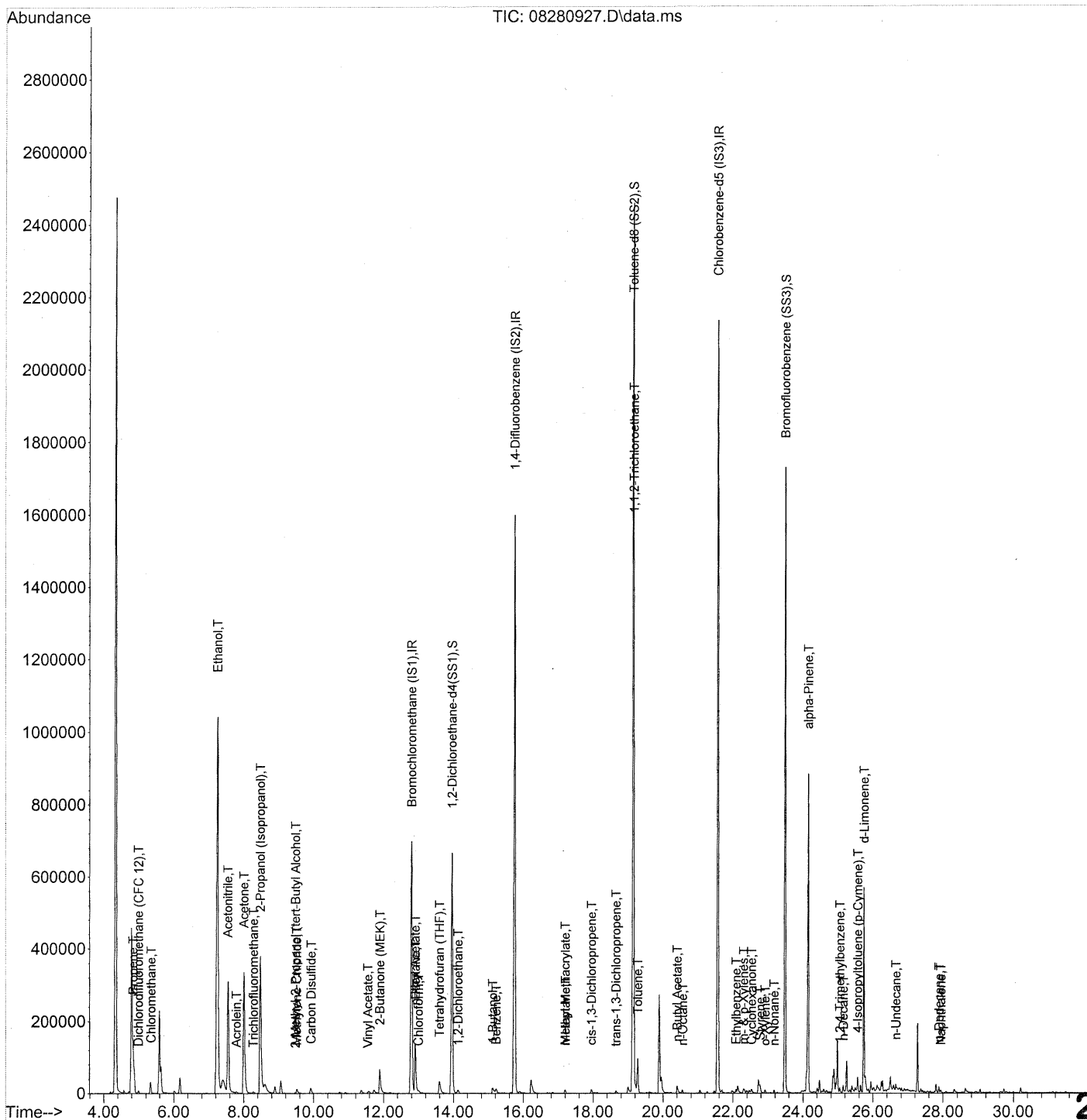
TIC: 08280926.D\data.ms

(95) Naphthalene (T)
 27.939min (-0.006) 0.67ng
 response 85792

ion	Exp%	Act%
128.10	100	100
129.00	11.00	10.99
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280927.D
Acq On : 29 Aug 2009 00:30
Operator : EM
Sample : P0902899-004 dil (100ml)
Misc : Env. H & E 102518
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:07:36 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280927.D
 Acq On : 29 Aug 2009 00:30
 Operator : EM
 Sample : P0902899-004 dil (100ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:07:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	362063	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.74	114	1857025	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	914247	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	659115	25.746	ng	-0.03 ✓
Spiked Amount	25.000		Recovery	=	103.00%	
57) Toluene-d8 (SS2)	19.14	98	2158865	24.839	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	99.36%	
73) Bromofluorobenzene (SS3)	23.49	174	609758	24.773	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	99.08%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	58843	1.853	ng	89
3) Dichlorodifluoromethan...	4.99	85	7630	0.168	ng	# 93
4) Chloromethane	5.36	50	5452	0.129	ng	94
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	7.25	45	2120916	106.458	ng	
11) Acetonitrile	7.55	41	490302	10.084	ng	98
12) Acrolein	7.79	56	4984	0.384	ng	98
13) Acetone	8.00	58	197187	9.726	ng	93
14) Trichlorofluoromethane	8.28	101	5534	0.143	ng	97
15) 2-Propanol (Isopropanol)	8.47	45	762855	13.740	ng	94
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	8060	0.143	ng	# 72
19) Methylene Chloride	9.52	84	1913	0.076	ng	80
20) 3-Chloro-1-propene (Al...	9.61	41	219	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.93	76	32064	0.359	ng	97
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	11.55	86	230	0.052	ng	# 1
27) 2-Butanone (MEK)	11.90	72	31722	2.244	ng	# 68
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.90	61	33393	3.643	ng	90
31) n-Hexane	12.92	57	2883	0.065	ng	# 6202

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280927.D
 Acq On : 29 Aug 2009 00:30
 Operator : EM
 Sample : P0902899-004 dil (100ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:07:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.00	83	3968	0.106	ng	93
34) Tetrahydrofuran (THF)	13.60	72	14622	0.995	ng #	70
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	10914	0.381	ng	94
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	15.11	61	230	N.D.		
40) 1-Butanol	15.13	56	20277	0.843	ng	98
41) Benzene	15.22	78	12237	0.123	ng	90
42) Carbon Tetrachloride	15.45	117	1238	N.D.		
43) Cyclohexane	15.65	84	1288	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	3048	N.D.		
50) Methyl Methacrylate	17.21	100	580	0.058	ng #	1
51) n-Heptane	17.21	71	2556	0.096	ng	87
52) cis-1,3-Dichloropropene	17.96	75	9821	0.266	ng	99
53) 4-Methyl-2-pentanone	18.04	58	515	N.D.		
54) trans-1,3-Dichloropropene	18.66	75	6641	0.206	ng	89
55) 1,1,2-Trichloroethane	19.16	97	176472	8.271	ng #	8
58) Toluene	19.28	91	91598	0.869	ng	100
59) 2-Hexanone	19.59	43	1199	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.41	43	25844	0.433	ng	95
63) n-Octane	20.56	57	2008	0.086	ng #	73
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	11290	0.099	ng	93
67) m- & p-Xylenes	22.31	91	13541	0.150	ng	95
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.78	104	11280	0.169	ng	99
70) o-Xylene	22.92	91	5457	0.060	ng	98
71) n-Nonane	23.17	43	4063	0.074	ng #	74
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.67	105	861	N.D.		
75) alpha-Pinene	24.15	93	412888	7.114	ng	88
76) n-Propylbenzene	24.29	91	2922	N.D.		
77) 3-Ethyltoluene	24.41	105	4757	N.D.		
78) 4-Ethyltoluene	24.46	105	3538	N.D.		
79) 1,3,5-Trimethylbenzene	24.56	105	2167	N.D.		

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280927.D
 Acq On : 29 Aug 2009 00:30
 Operator : EM
 Sample : P0902899-004 dil (100ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 01 11:07:36 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

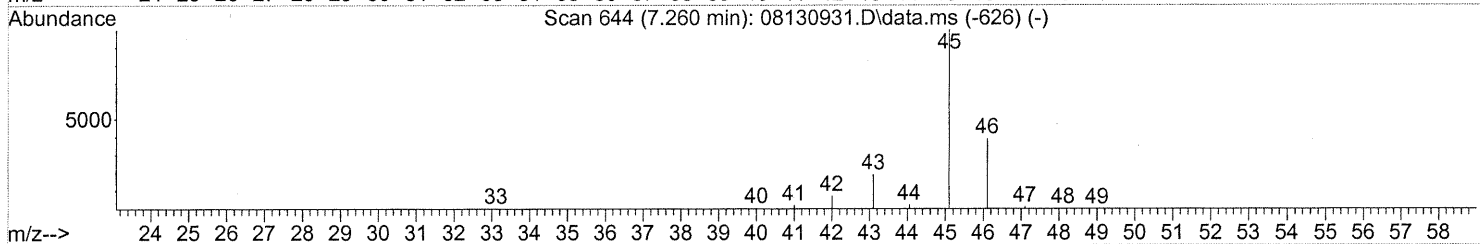
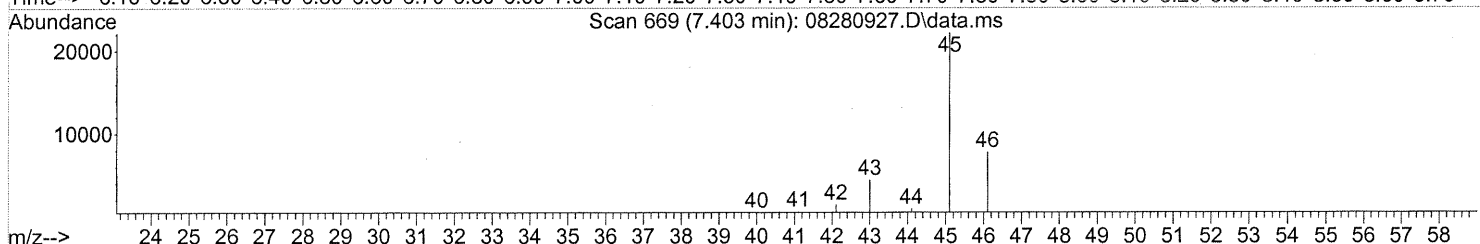
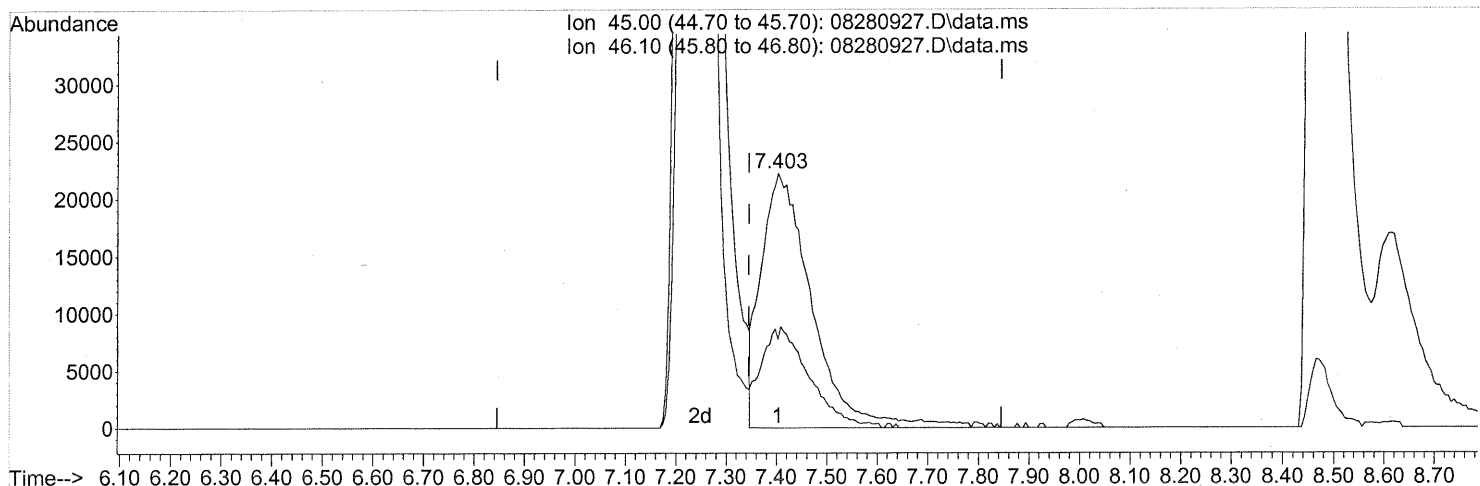
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.95	118	212	N.D.		
81) 2-Ethyltoluene	24.79	105	1988	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	6640	0.068	ng	86
83) n-Decane	25.15	57	9920	0.175	ng	89
84) Benzyl Chloride	25.34	91	1561	N.D.		
85) 1,3-Dichlorobenzene	25.34	146	543	N.D.		
86) 1,4-Dichlorobenzene	25.34	146	543	N.D.		
87) sec-Butylbenzene	25.49	105	265	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	21164	0.172	ng	98
89) 1,2,3-Trimethylbenzene	25.57	105	3265	N.D.		
90) 1,2-Dichlorobenzene	25.34	146	543	N.D.		
91) d-Limonene	25.74	68	157106	3.948	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	6029	0.103	ng	90
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	8761	0.067	ng	96
96) n-Dodecane	27.89	57	6485	0.099	ng	91
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.53	55	5136	0.155	ng	# 92
99) tert-Butylbenzene	25.05	119	664	N.D.		
100) n-Butylbenzene	26.13	91	3746	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280927.D
 Acq On : 29 Aug 2009 00:30
 Operator : EM
 Sample : P0902899-004 dil (100ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280927.D\data.ms

(10) Ethanol (T)

7.403min (+0.057) 7.83ng

response 155951

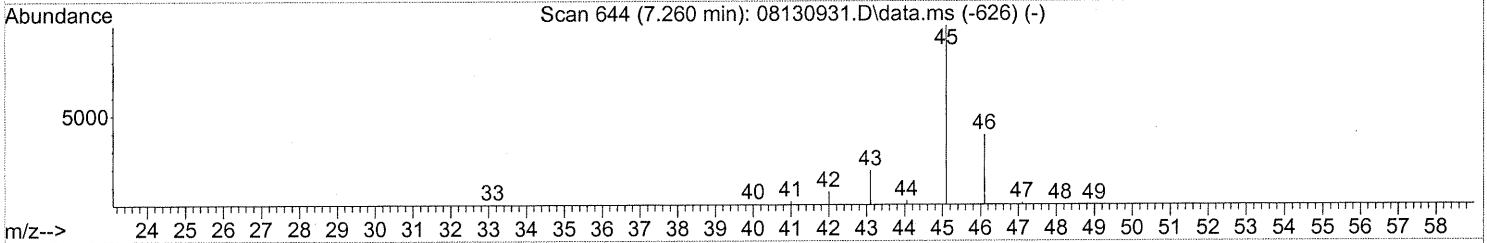
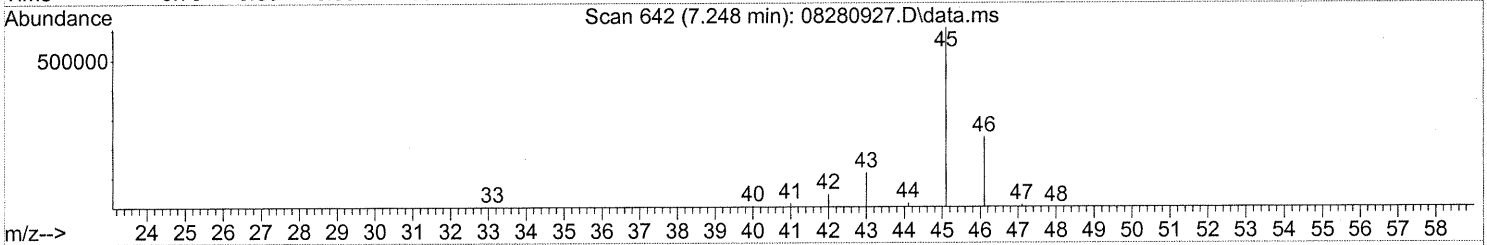
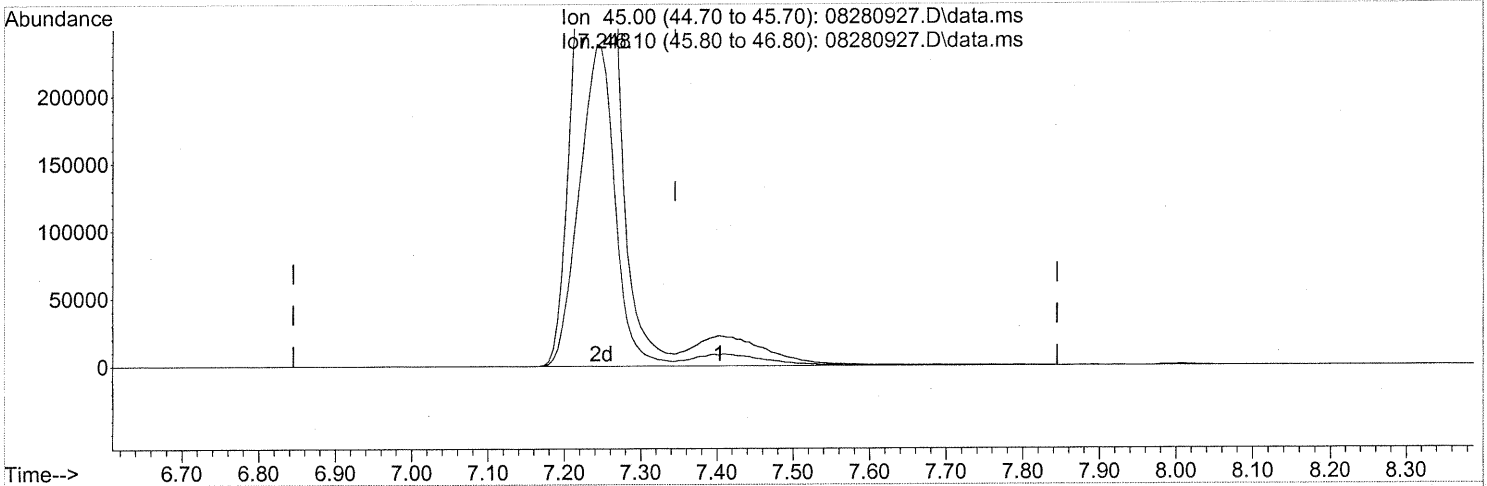
SP

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280927.D
 Acq On : 29 Aug 2009 00:30
 Operator : EM
 Sample : P0902899-004 dil (100ml)
 Misc : Env. H & E 102518
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 08:08:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.248min (-0.097) 106.46ng m
 response 2120916

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	2.75#
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC

em 9/1/09

kr 9/2/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102519

Client Project ID: 16512

CAS Project ID: P0902899

CAS Sample ID: P0902899-005

Test Code: EPA TO-15

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

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00729

Date Collected: 8/20/09

Date Received: 8/21/09

Date Analyzed: 8/29/09

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	44	0.77	26	0.44	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.77	0.50	0.15	
74-87-3	Chloromethane	0.90	0.15	0.44	0.074	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.77	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.060	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.069	
74-83-9	Bromomethane	ND	0.15	ND	0.039	
75-00-3	Chloroethane	ND	0.15	ND	0.058	
64-17-5	Ethanol	1,400	7.7	760	4.1	D
75-05-8	Acetonitrile	130	0.77	80	0.46	
107-02-8	Acrolein	5.8	0.77	2.5	0.33	
67-64-1	Acetone	140	7.7	60	3.2	
75-69-4	Trichlorofluoromethane	2.1	0.15	0.37	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	190	0.77	78	0.31	
107-13-1	Acrylonitrile	ND	0.77	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.039	
75-09-2	Methylene Chloride	ND	0.77	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.049	
76-13-1	Trichlorotrifluoroethane	0.52	0.15	0.069	0.020	
75-15-0	Carbon Disulfide	5.0	0.77	1.6	0.25	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.042	
108-05-4	Vinyl Acetate	10	7.7	2.9	2.2	
78-93-3	2-Butanone (MEK)	29	0.77	9.7	0.26	

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

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

D = The reported result is from a dilution.

Verified By: Res

Date: 9/2/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102519
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00729

CAS Project ID: P0902899
 CAS Sample ID: P0902899-005

Date Collected: 8/20/09
 Date Received: 8/21/09
 Date Analyzed: 8/29/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.039	
141-78-6	Ethyl Acetate	55	1.5	15	0.42	
110-54-3	n-Hexane	0.96	0.77	0.27	0.22	
67-66-3	Chloroform	1.5	0.15	0.31	0.031	
109-99-9	Tetrahydrofuran (THF)	14	0.77	4.6	0.26	
107-06-2	1,2-Dichloroethane	5.2	0.15	1.3	0.038	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	Benzene	1.5	0.15	0.48	0.048	
56-23-5	Carbon Tetrachloride	0.87	0.15	0.14	0.024	
110-82-7	Cyclohexane	ND	0.77	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.033	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.023	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.77	ND	0.21	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.37	
142-82-5	n-Heptane	1.5	0.77	0.37	0.19	
10061-01-5	cis-1,3-Dichloropropene	4.1	0.77	0.91	0.17	
108-10-1	4-Methyl-2-pentanone	1.3	0.77	0.31	0.19	
10061-02-6	trans-1,3-Dichloropropene	3.3	0.77	0.73	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	14	0.77	3.8	0.20	
591-78-6	2-Hexanone	1.2	0.77	0.28	0.19	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	n-Butyl Acetate	7.1	0.77	1.5	0.16	

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

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

Verified By: Ru

Date: 9/10/09 **208**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102519
Client Project ID: 16512

CAS Project ID: P0902899
 CAS Sample ID: P0902899-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00729

Date Collected: 8/20/09
 Date Received: 8/21/09
 Date Analyzed: 8/29/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.4	0.77	0.31	0.16	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.023	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	1.8	0.77	0.43	0.18	
179601-23-1	m,p-Xylenes	2.7	0.77	0.62	0.18	
75-25-2	Bromoform	ND	0.77	ND	0.074	
100-42-5	Styrene	2.7	0.77	0.64	0.18	
95-47-6	o-Xylene	1.1	0.77	0.25	0.18	
111-84-2	n-Nonane	0.93	0.77	0.18	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.77	ND	0.16	
80-56-8	alpha-Pinene	110	0.77	19	0.14	
103-65-1	n-Propylbenzene	ND	0.77	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.77	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.77	ND	0.16	
95-63-6	1,2,4-Trimethylbenzene	0.97	0.77	0.20	0.16	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	0.22	0.15	0.036	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	52	0.77	9.4	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	ND	0.079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.77	ND	0.10	
91-20-3	Naphthalene	0.89	0.77	0.17	0.15	
87-68-3	Hexachlorobutadiene	ND	0.77	ND	0.072	

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

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

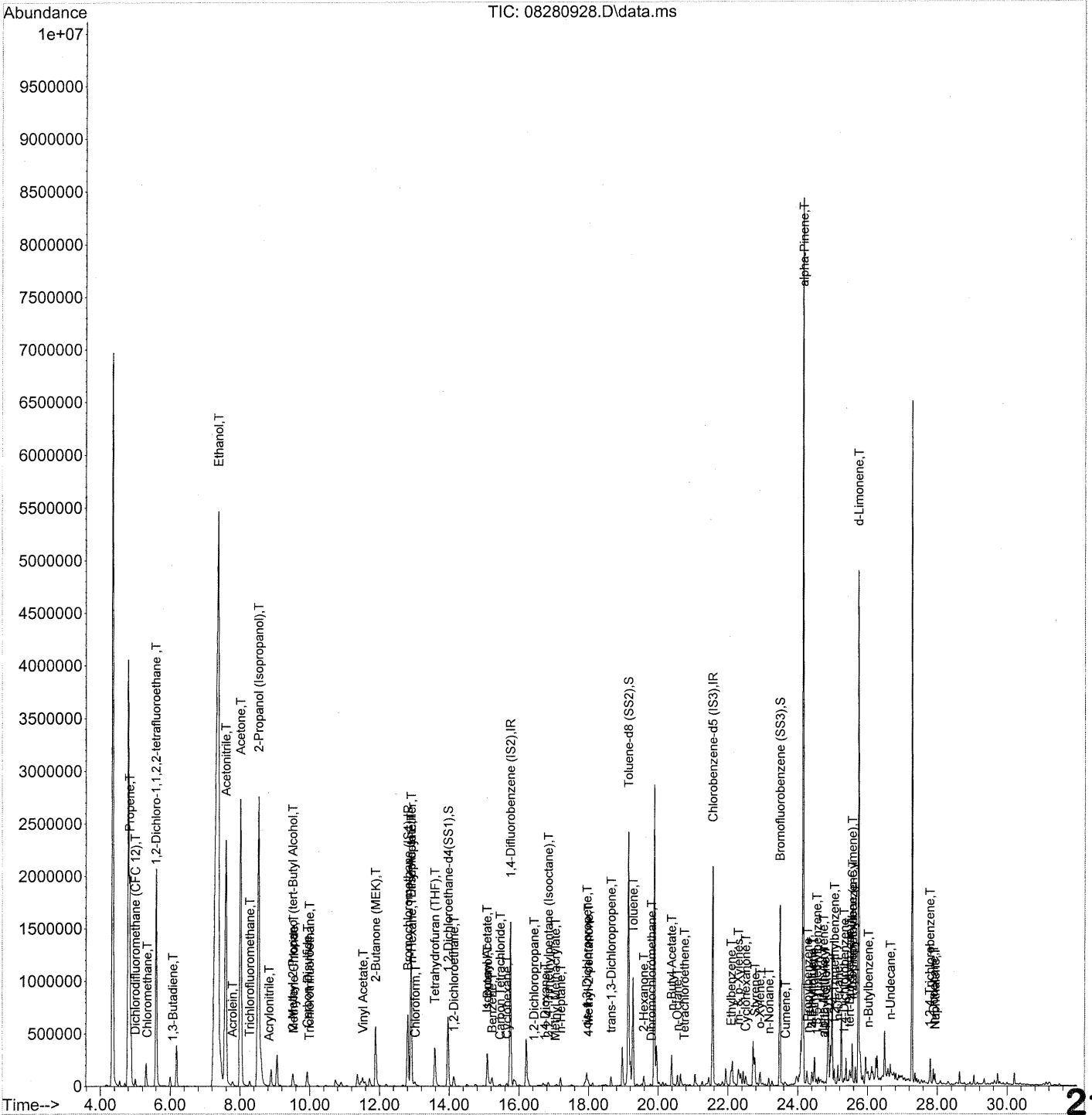
Verified By: *RL*

Date: 9/2/09

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Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 14:08:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
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 Operator : EM
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	361866	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1835639	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	890748	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	650945	25.441	ng	-0.02 ✓
Spiked Amount	25.000			Recovery	=	101.76%
57) Toluene-d8 (SS2)	19.15	98	2117848	25.010	ng	-0.01 ✓
Spiked Amount	25.000			Recovery	=	100.04%
73) Bromofluorobenzene (SS3)	23.49	174	605712	25.257	ng	0.00 ✓
Spiked Amount	25.000			Recovery	=	101.04%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	917104	28.891	ng	96
3) Dichlorodifluoromethan...	5.00	85	73123	1.614	ng	99
4) Chloromethane	5.34	50	24890	0.589	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	1237	0.052	ng #	43
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.08	54	2012	0.068	ng #	77
8) Bromomethane	6.57	94	743	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.37	45	20173381	1013.138	ng <i>See Dil</i>	99
11) Acetonitrile	7.59	41	4246053	87.378	ng	99
12) Acrolein	7.79	56	48931	3.768	ng	97
13) Acetone	8.01	58	1874576	92.515	ng	92
14) Trichlorofluoromethane	8.28	101	52084	1.344	ng	99
15) 2-Propanol (Isopropanol)	8.53	45	6992242	126.008	ng	94
16) Acrylonitrile	8.83	53	2796	0.095	ng	84
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.50	59	35691	0.634	ng #	1
19) Methylene Chloride	9.53	84	11770	0.466	ng	89
20) 3-Chloro-1-propene (Al...	9.71	41	104	N.D.		
21) Trichlorotrifluoroethane	9.98	151	5951	0.343	ng	96
22) Carbon Disulfide	9.93	76	291399	3.266	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.37	73	932	N.D.		
26) Vinyl Acetate	11.52	86	28897	6.585	ng #	36
27) 2-Butanone (MEK)	11.89	72	263683	18.667	ng #	85
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.90	87	5937	0.296	ng #	1
30) Ethyl Acetate	12.90	61	328642	35.876	ng	93
31) n-Hexane	12.92	57	28060	0.628	ng	211

em 9/2/09

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 14:08:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	36843	0.986	ng	99
34) Tetrahydrofuran (THF)	13.58	72	129933	8.847	ng #	67
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	96591	3.378	ng	100
38) 1,1,1-Trichloroethane	14.53	97	1057	N.D.		
39) Isopropyl Acetate	15.08	61	5779	0.386	ng #	1
40) 1-Butanol	15.09	56	283964	11.938	ng	84
41) Benzene	15.23	78	98487	0.998	ng	98
42) Carbon Tetrachloride	15.46	117	15749	0.571	ng	100
43) Cyclohexane	15.65	84	13490	0.353	ng #	79
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.43	63	1727	0.071	ng	90
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.74	88	2031	0.116	ng	84
49) 2,2,4-Trimethylpentane...	16.85	57	25163	0.221	ng	72
50) Methyl Methacrylate	17.05	100	610	0.062	ng #	1
51) n-Heptane	17.20	71	25699	0.978	ng	93
52) cis-1,3-Dichloropropene	17.95	75	98686	2.704	ng	100
53) 4-Methyl-2-pentanone	18.00	58	17559	0.823	ng	100
54) trans-1,3-Dichloropropene	18.65	75	69220	2.168	ng	100
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	19.28	91	966706	9.417	ng	100
59) 2-Hexanone	19.59	43	40282	0.755	ng	93
60) Dibromochloromethane	19.82	129	1984	0.091	ng	80
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	271399	4.662	ng	98
63) n-Octane	20.55	57	21515	0.940	ng	88
64) Tetrachloroethene	20.75	166	2497	0.098	ng	99
65) Chlorobenzene	21.62	112	1281	N.D.		
66) Ethylbenzene	22.09	91	133853	1.208	ng	99
67) m- & p-Xylenes	22.30	91	154035	1.753	ng	98
68) Bromoform	22.43	173	945	N.D.		
69) Styrene	22.77	104	115846	1.784	ng	99
70) o-Xylene	22.92	91	63516	0.719	ng	98
71) n-Nonane	23.17	43	32201	0.605	ng	88
72) 1,1,2,2-Tetrachloroethane	22.91	83	787	N.D.		
74) Cumene	23.65	105	9940	0.087	ng	95
75) alpha-Pinene	24.15	93	3942489	69.725	ng	100
76) n-Propylbenzene	24.28	91	24164	0.171	ng #	36
77) 3-Ethyltoluene	24.40	105	44768	0.417	ng	95
78) 4-Ethyltoluene	24.46	105	26399	0.245	ng	90
79) 1,3,5-Trimethylbenzene	24.55	105	19510	0.219	ng	99

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Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 14:08:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

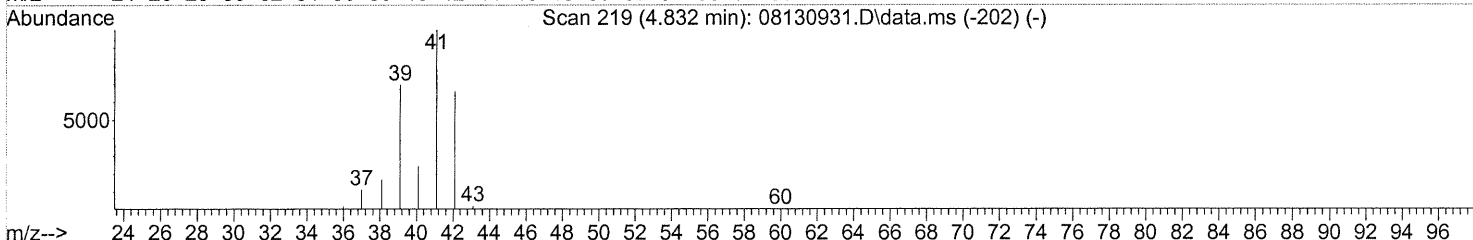
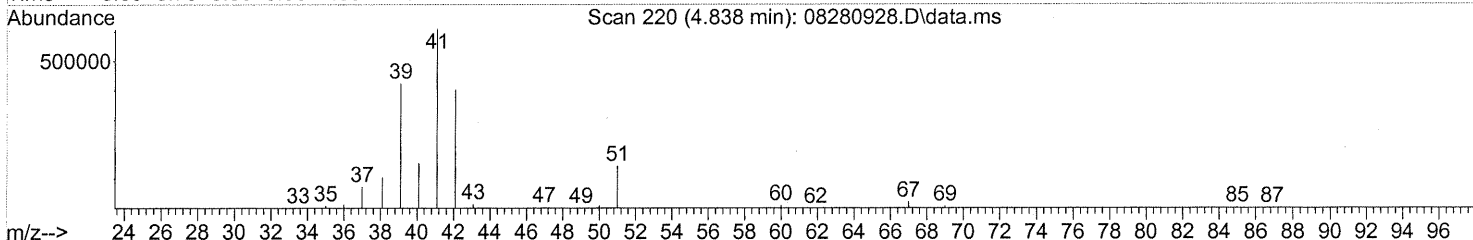
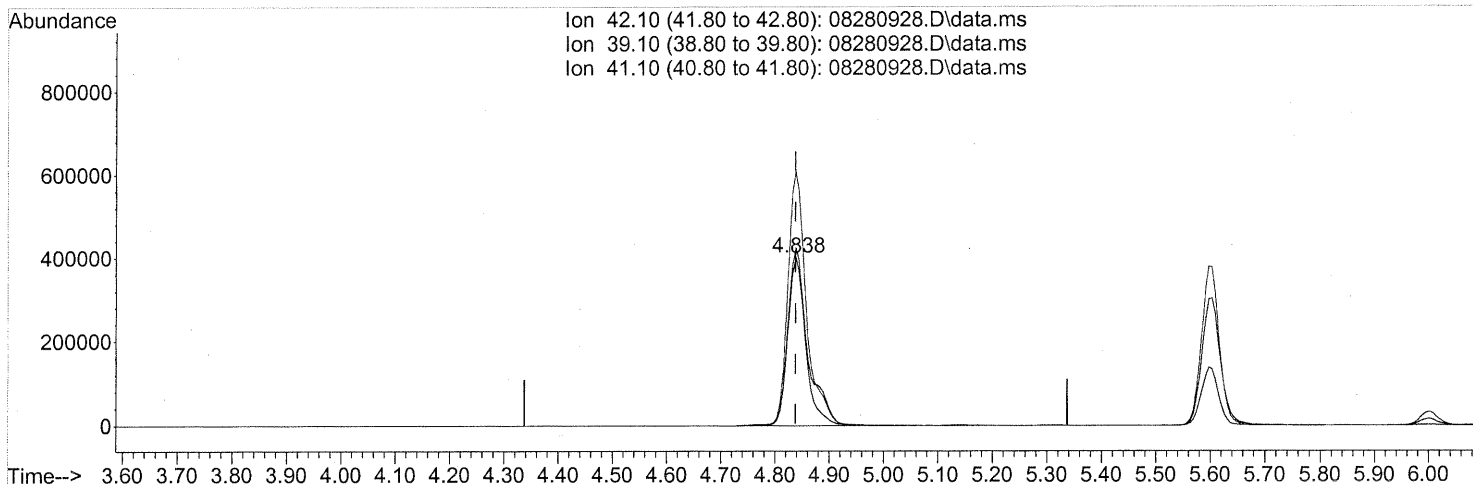
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	2482	0.051	ng	92
81) 2-Ethyltoluene	24.79	105	17991	0.162	ng	97
82) 1,2,4-Trimethylbenzene	25.05	105	60070	0.634	ng	89
83) n-Decane	25.15	57	76849	1.393	ng	94
84) Benzyl Chloride	25.25	91	930	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	25.33	146	7339	0.141	ng	96
87) sec-Butylbenzene	25.37	105	2996	N.D.		
88) 4-Isopropyltoluene (p-...)	25.56	119	189861	1.587	ng	95
89) 1,2,3-Trimethylbenzene	25.57	105	26417	0.276	ng	# 26
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.	d	
91) d-Limonene	25.74	68	1327952	34.253	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	51093	0.896	ng	94
94) 1,2,4-Trichlorobenzene	27.79	180	2171	0.063	ng	# 83
95) Naphthalene	27.94	128	74252	0.584	ng	99
96) n-Dodecane	27.89	57	51895	0.813	ng	97
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	47105	1.457	ng	93
99) tert-Butylbenzene	25.49	119	6703	0.071	ng	96
100) n-Butylbenzene	26.02	91	34329	0.345	ng	# 48

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280928.D
Acq On : 29 Aug 2009 1:12
Operator : EM
Sample : P0902899-005 (1000ml)
Misc : Env. H & E 102519
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08280928.D\data.ms

(2) Propene (T)

4.838min (+0.000) 28.89ng

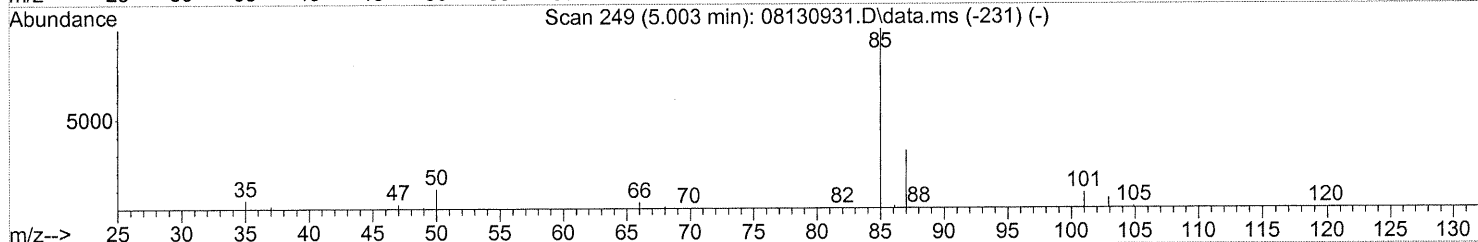
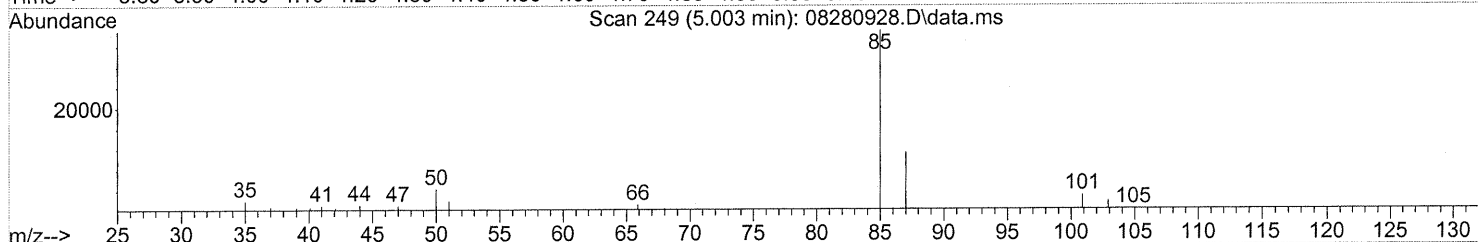
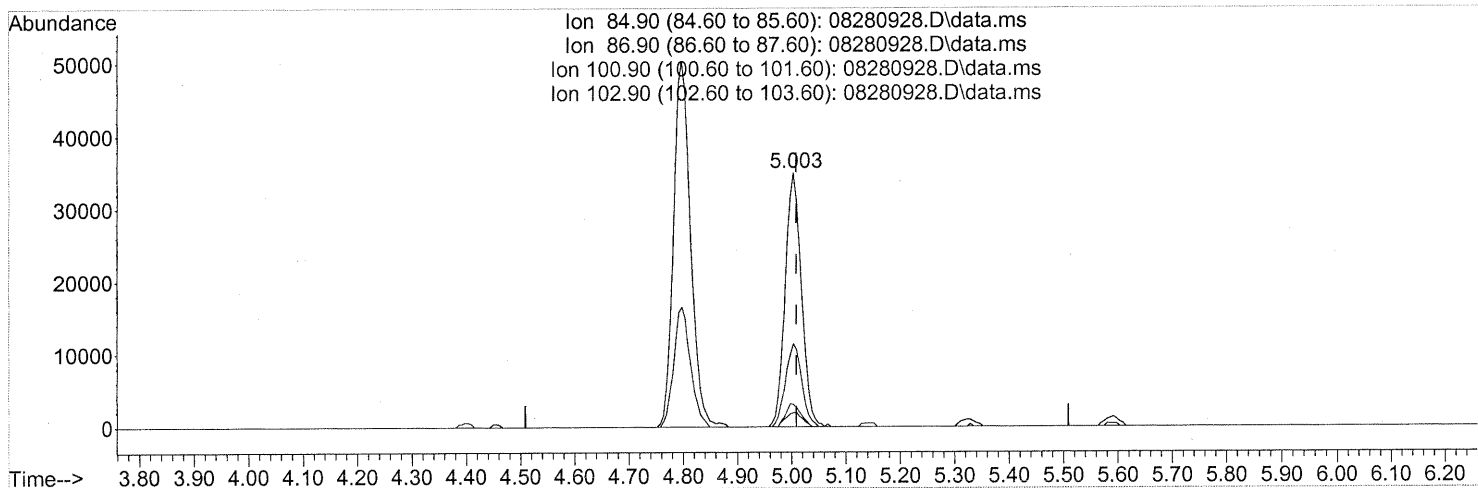
response 917104

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	118.90
41.10	152.70	159.52
0.00	0.00	0.00

Quantitation Report (Qedit)

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TIC: 08280928.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.003min (-0.006) 1.61ng

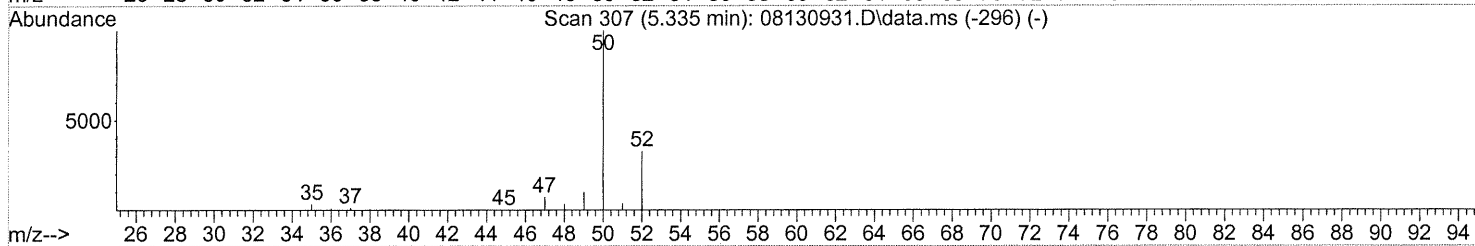
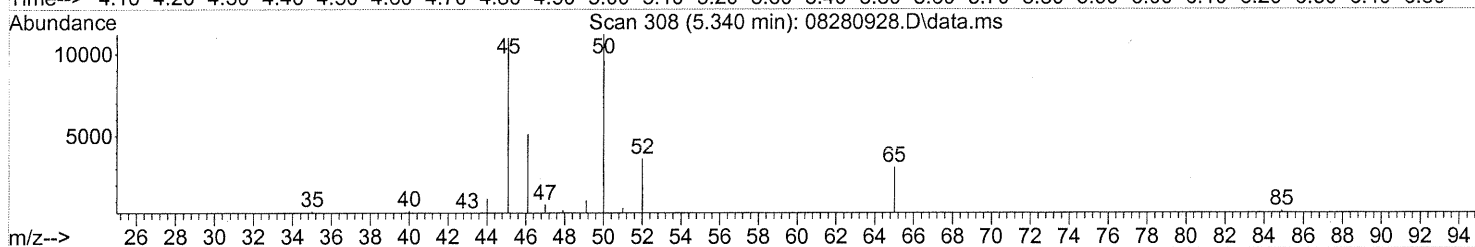
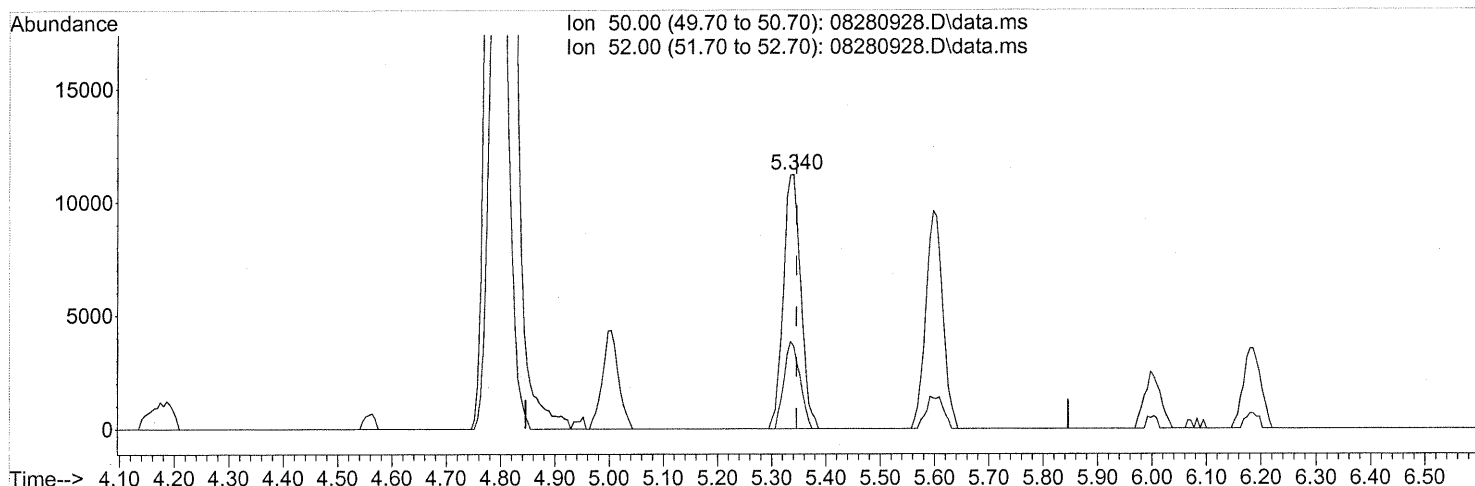
response 73123

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.50
100.90	9.10	8.21
102.90	5.50	5.57

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TIC: 08280928.D\data.ms

(4) Chloromethane (T)

5.340min (-0.006) 0.59ng

response 24890

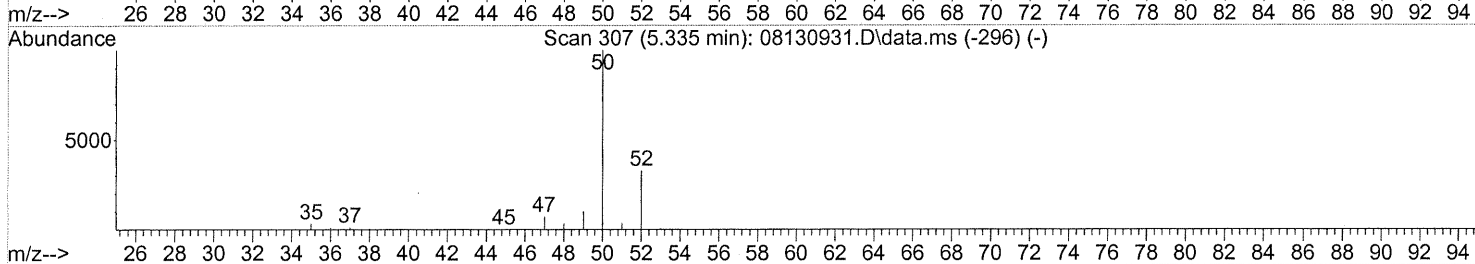
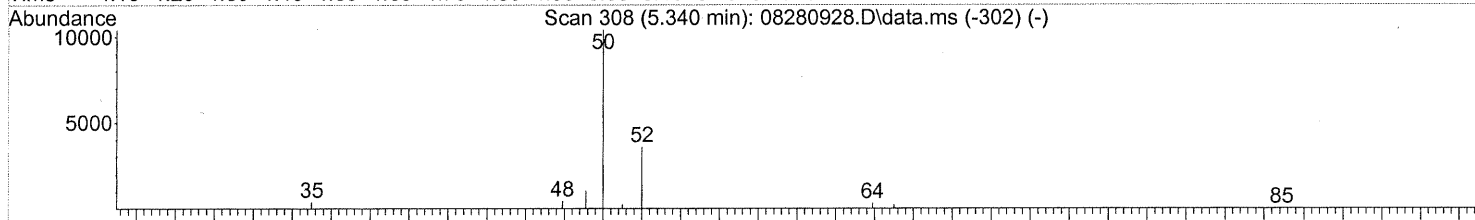
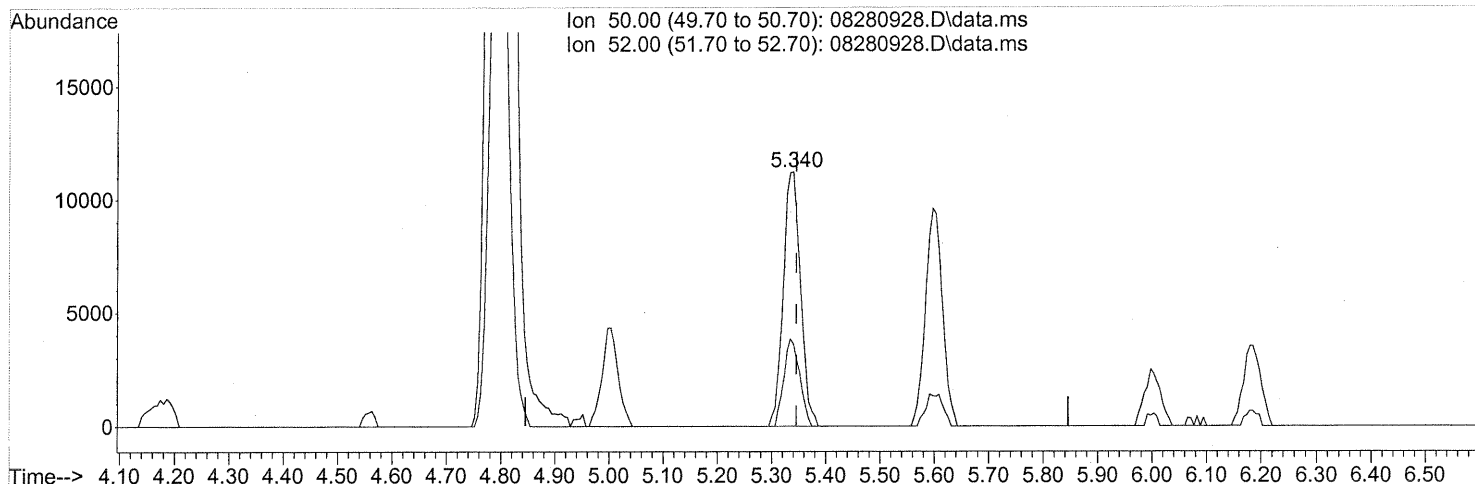
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.35
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.340min (-0.006) 0.59ng

response 24890

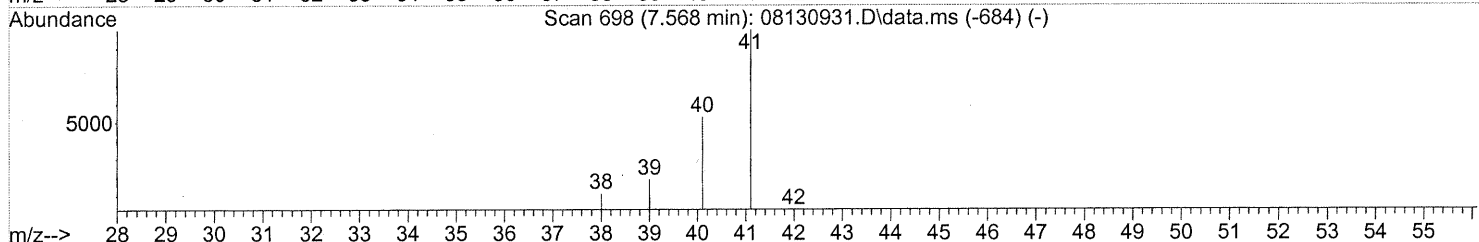
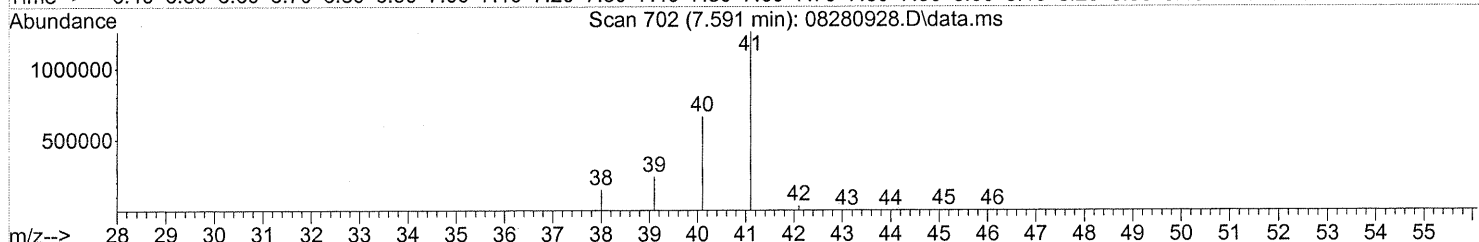
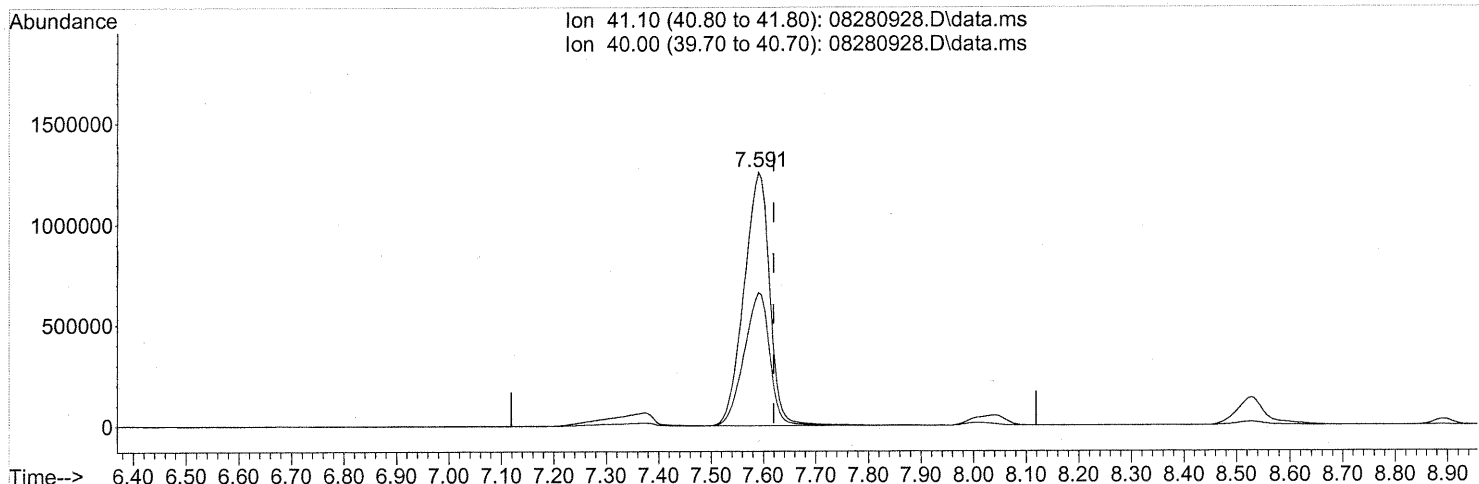
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.35
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
em 9/2/09

Quantitation Report (Qedit)

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
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TIC: 08280928.D\data.ms

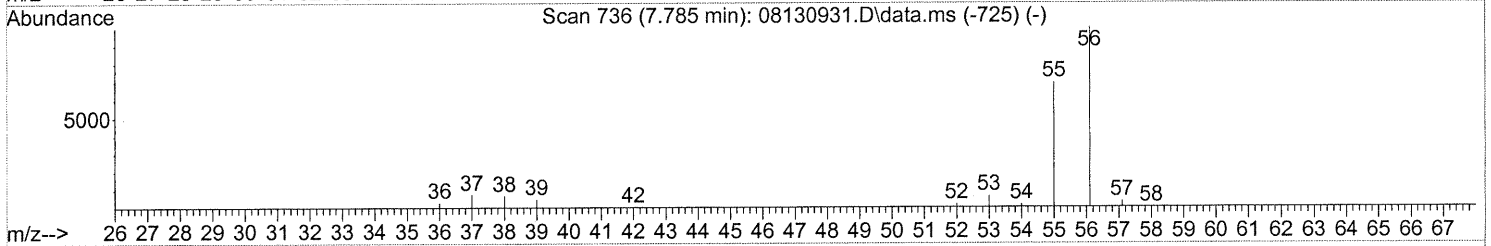
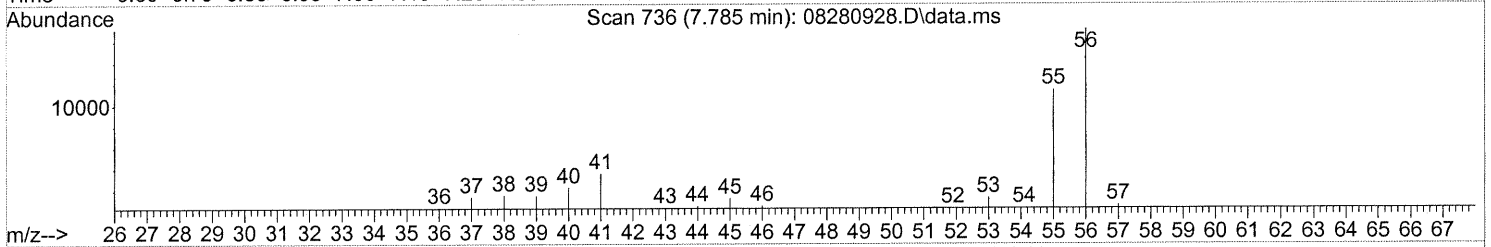
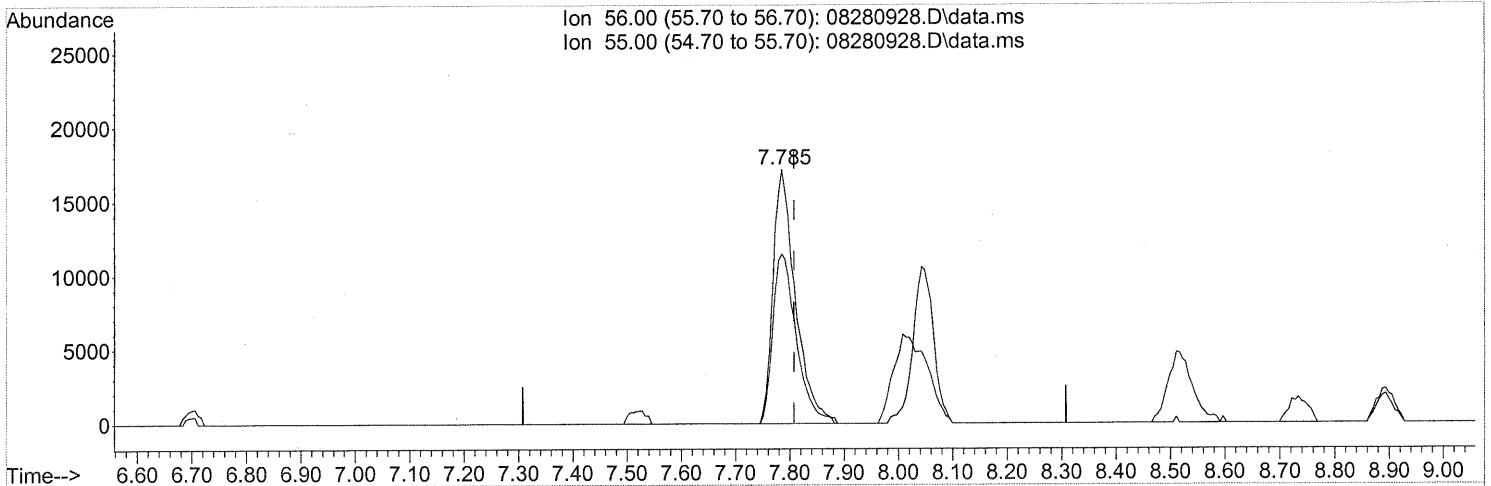
(11) Acetonitrile (T)
 7.591min (-0.029) 87.38ng
 response 4246053

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Acq On : 29 Aug 2009 1:12
 Operator : EM
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 Misc : Env. H & E 102519
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 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 08280928.D\data.ms

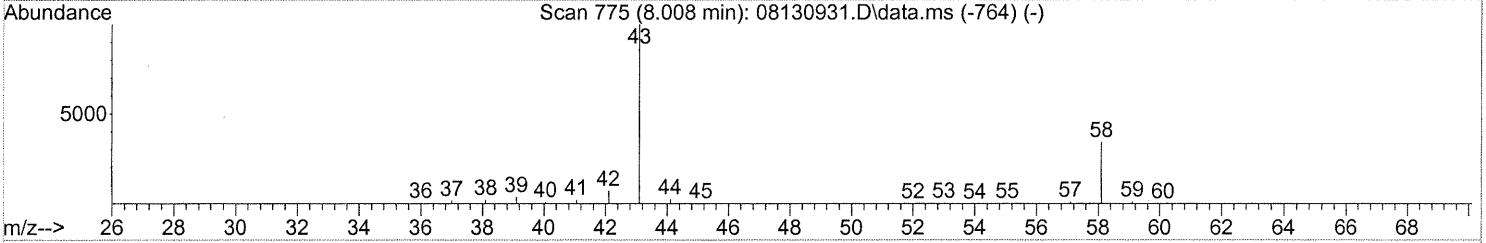
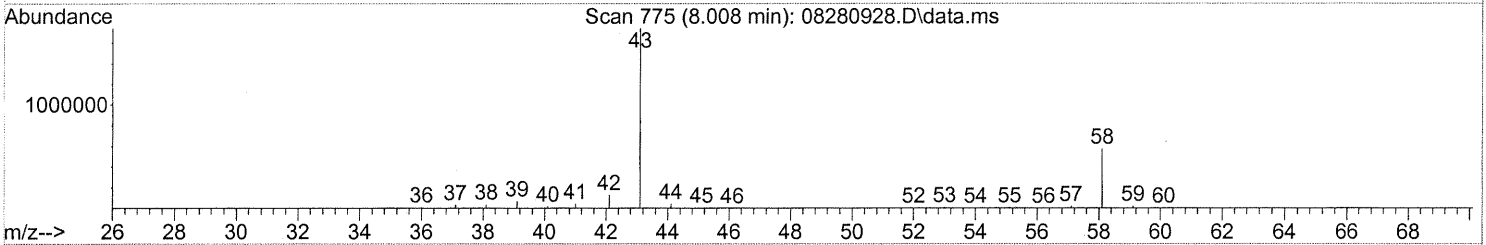
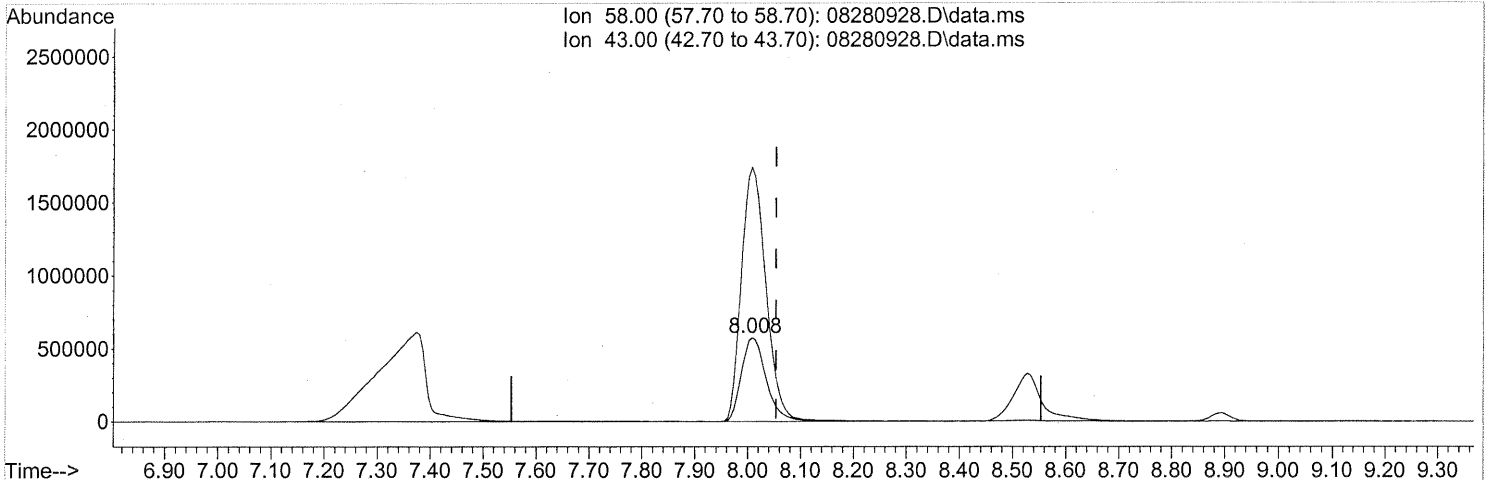
(12) Acrolein (T)
 7.785min (-0.023) 3.77ng
 response 48931

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	70.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

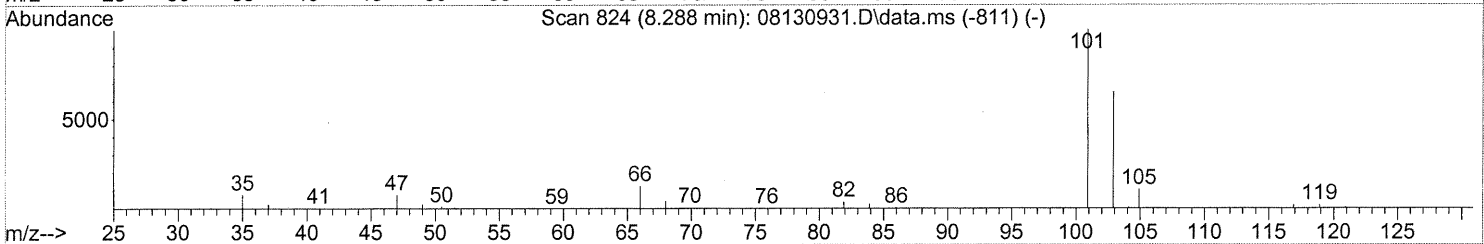
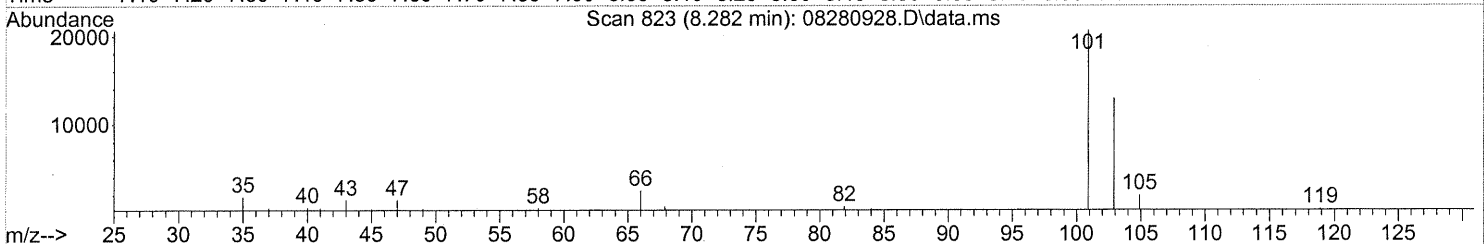
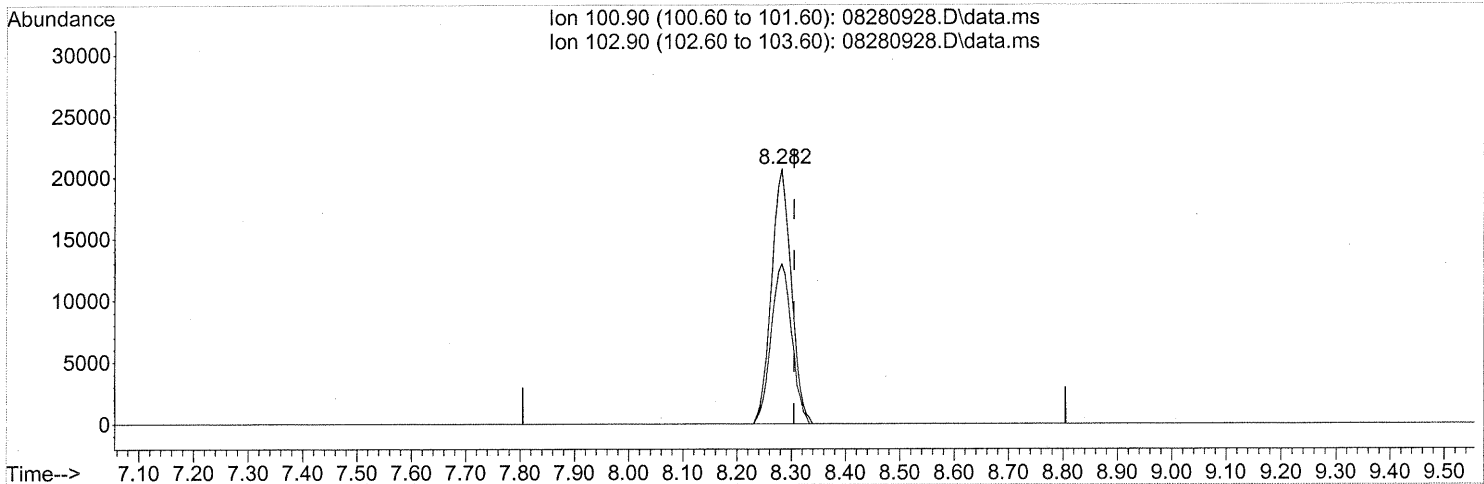
(13) Acetone (T)
 8.008min (-0.046) 92.51ng
 response 1874576

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	301.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280928.D
Acq On : 29 Aug 2009 1:12
Operator : EM
Sample : P0902899-005 (1000ml)
Misc : Env. H & E 102519
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08280928.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 1.34ng

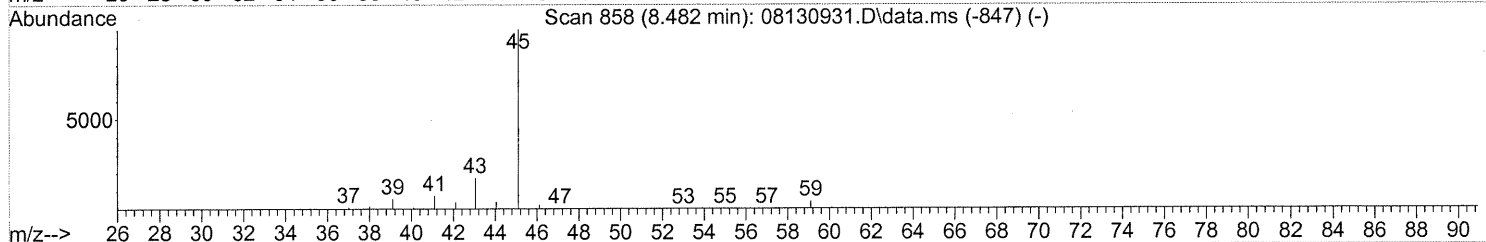
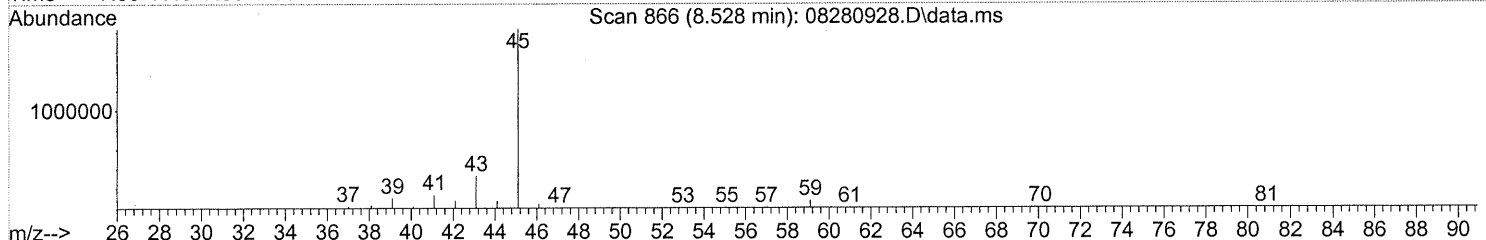
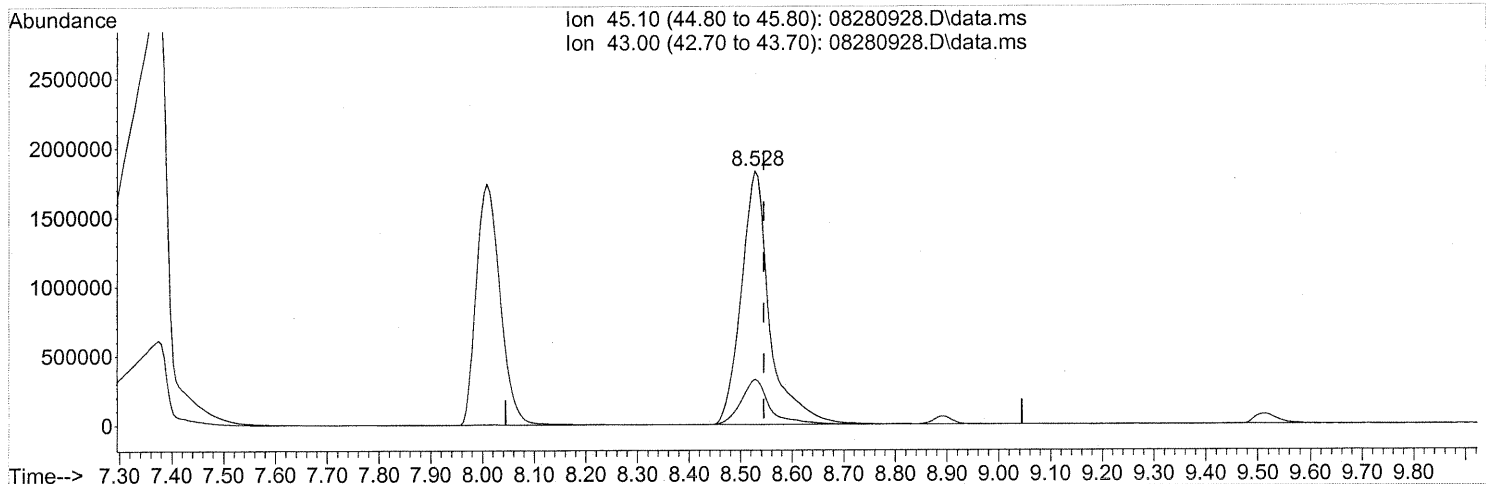
response 52084

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	65.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

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

8.528min (-0.017) 126.01ng

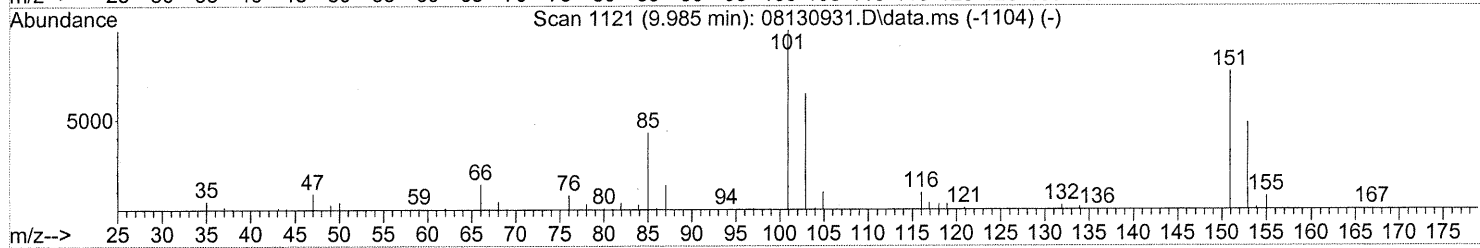
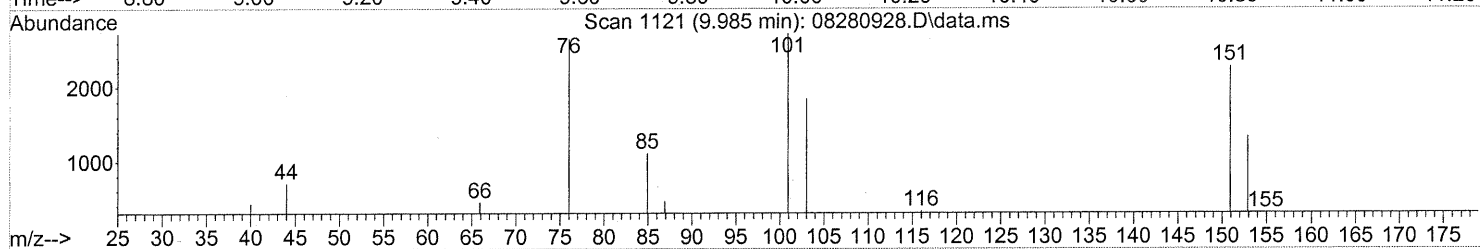
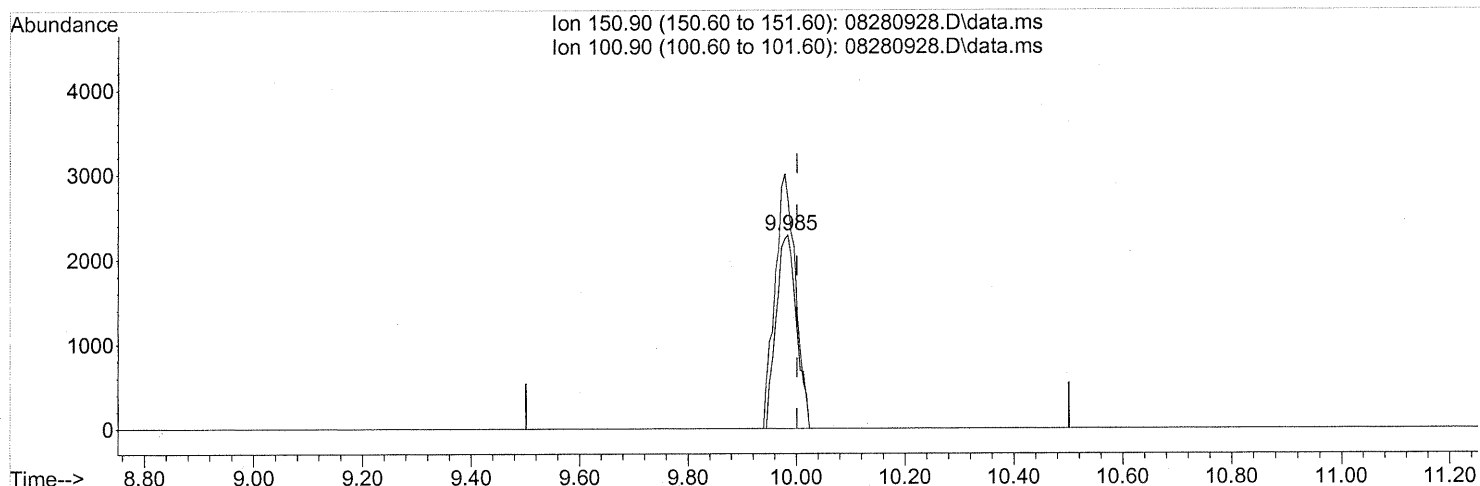
response 6992242

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.985min (-0.017) 0.34ng

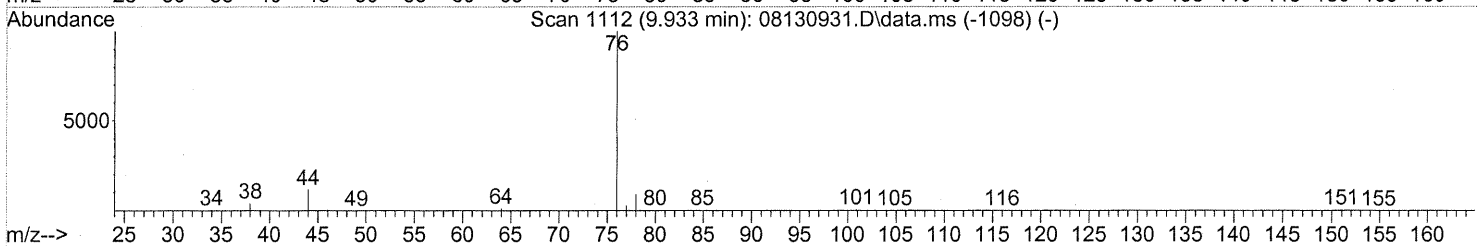
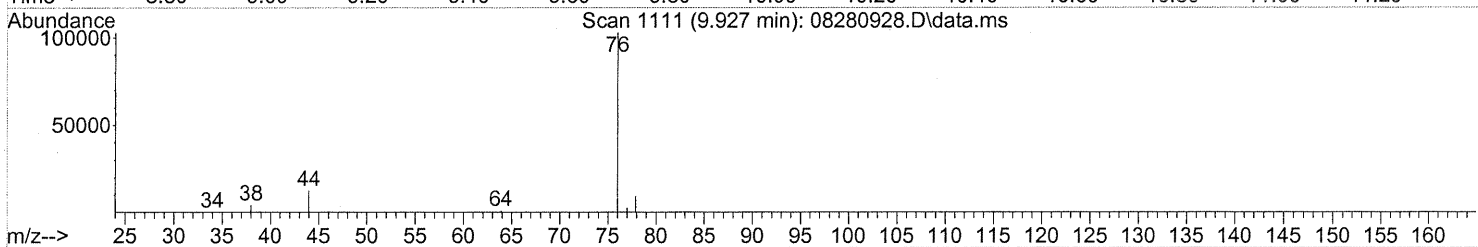
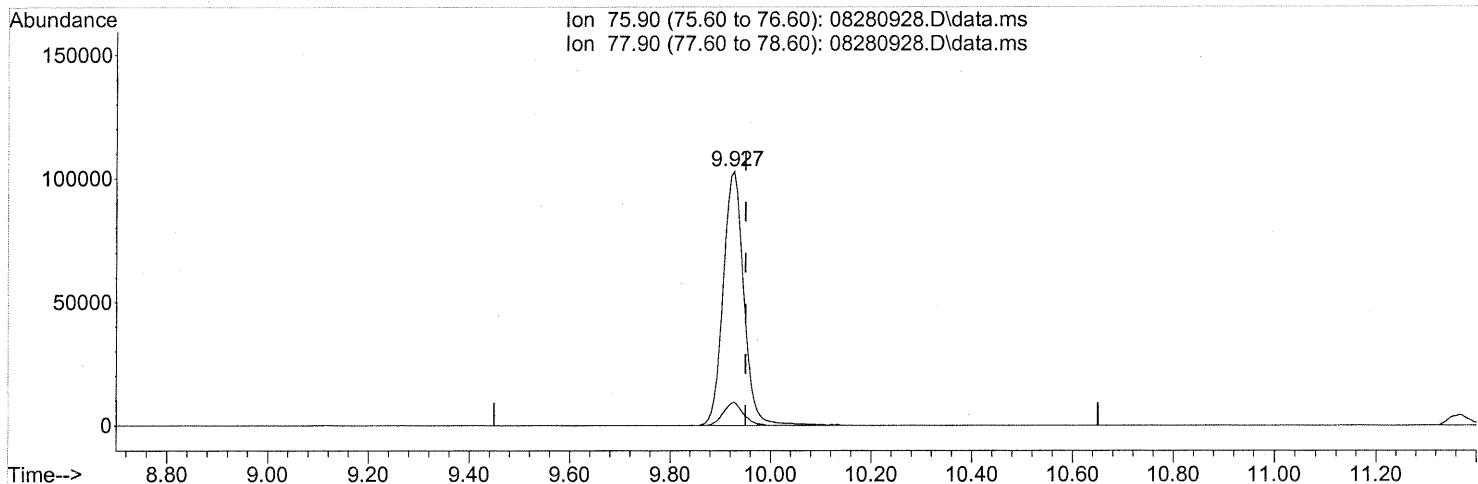
response 5951

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	132.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(22) Carbon Disulfide (T)

9.927min (-0.023) 3.27ng

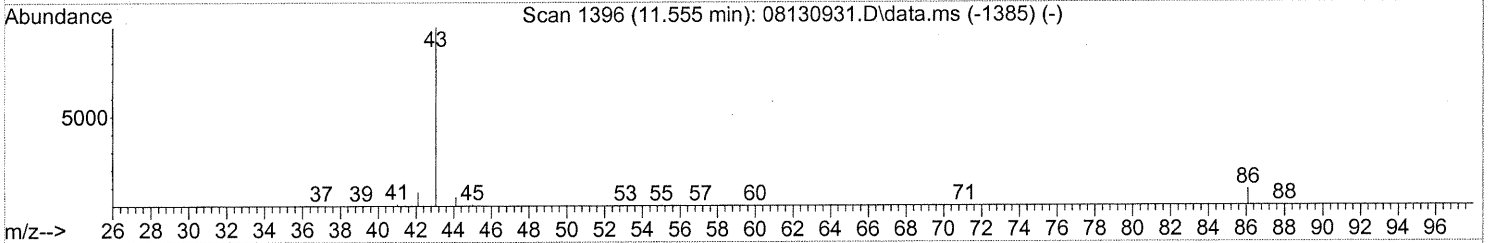
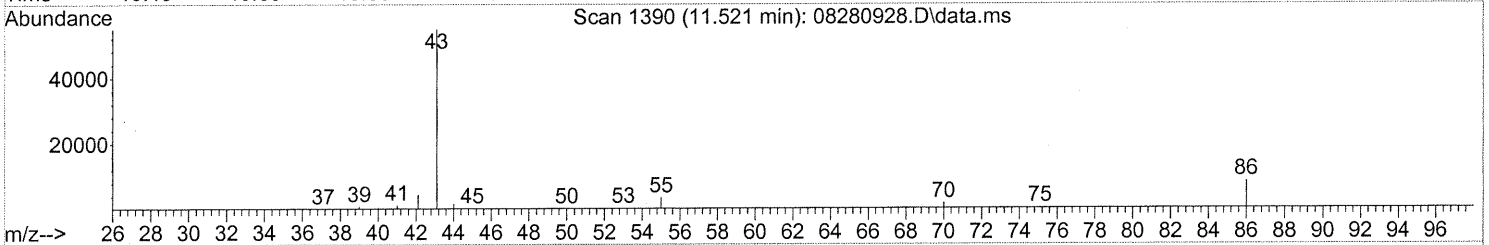
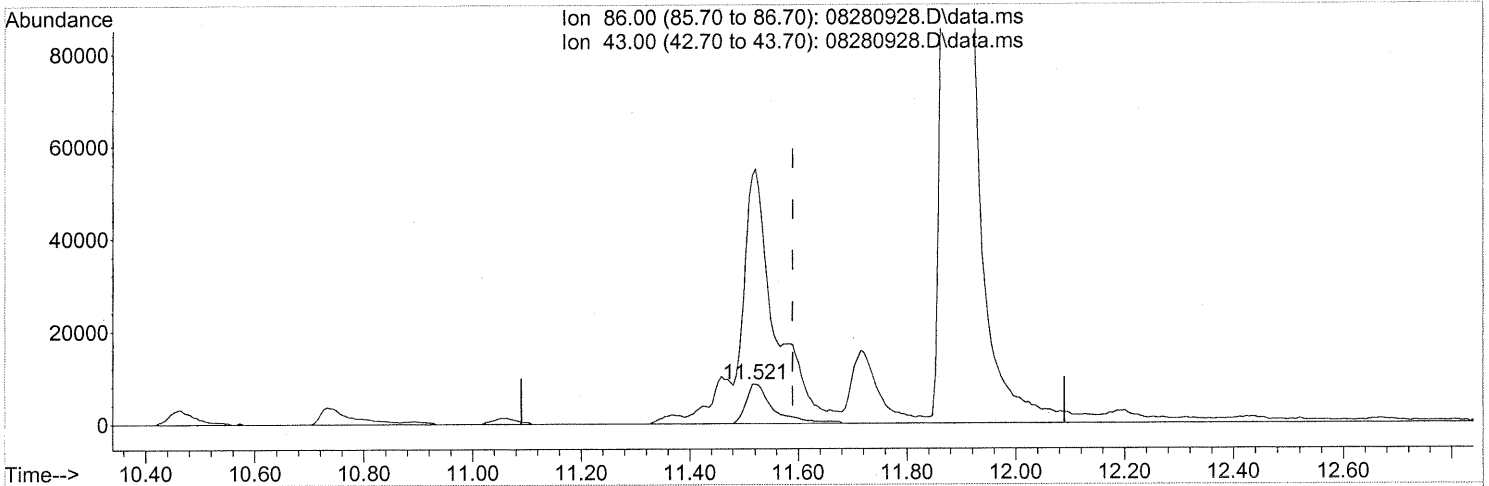
response 291399

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

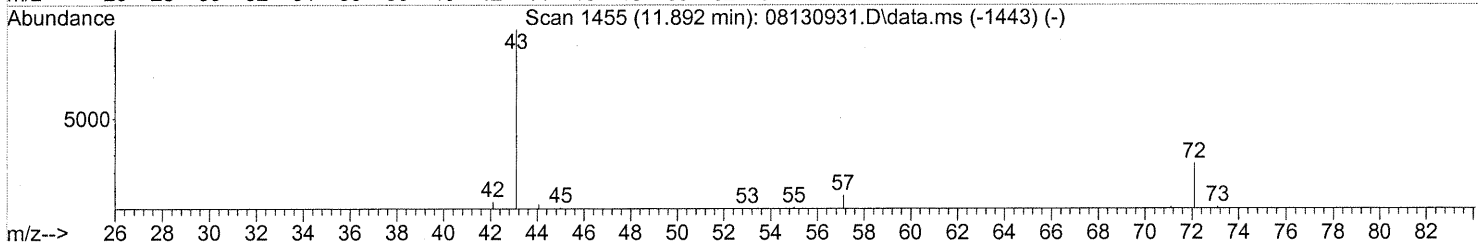
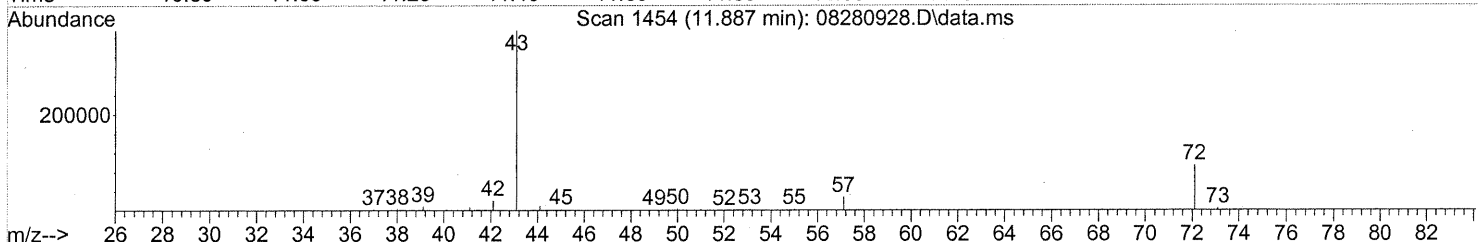
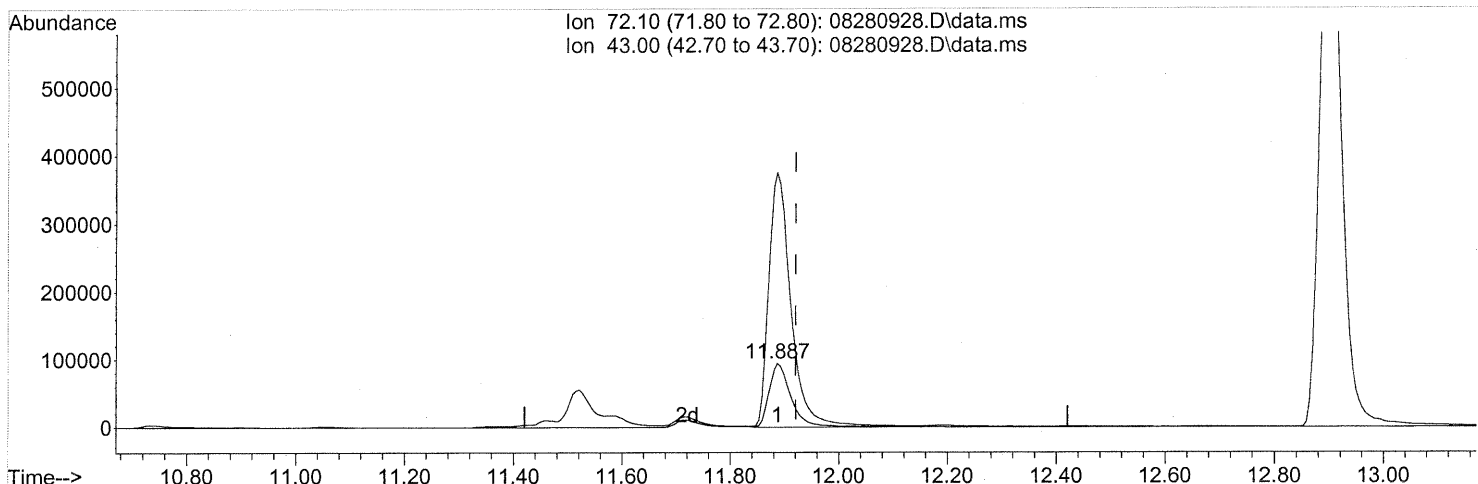
(26) Vinyl Acetate (T)
 11.521min (-0.069) 6.58ng
 response 28897

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	708.81#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280928.D
Acq On : 29 Aug 2009 1:12
Operator : EM
Sample : P0902899-005 (1000ml)
Misc : Env. H & E 102519
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08280928.D\data.ms

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

11.887min (-0.034) 18.67ng

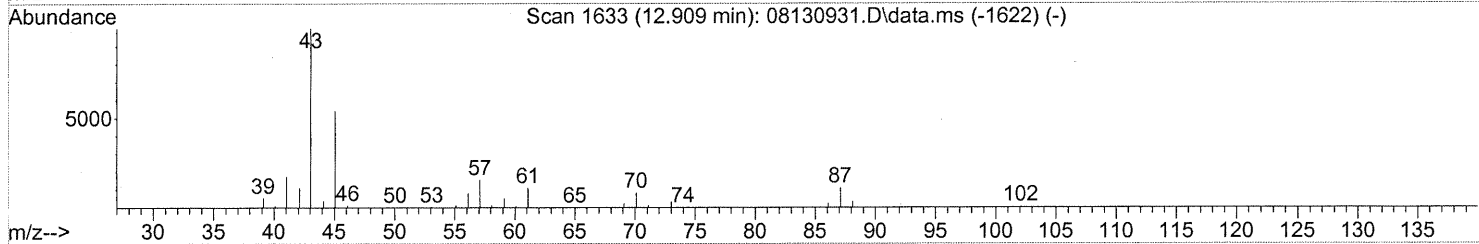
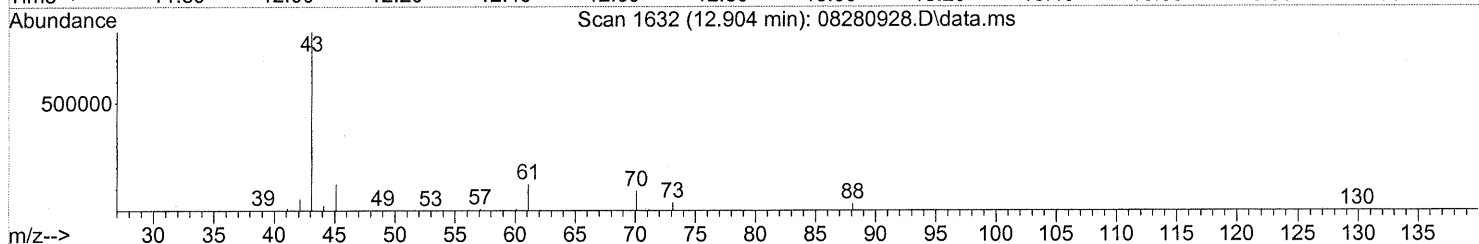
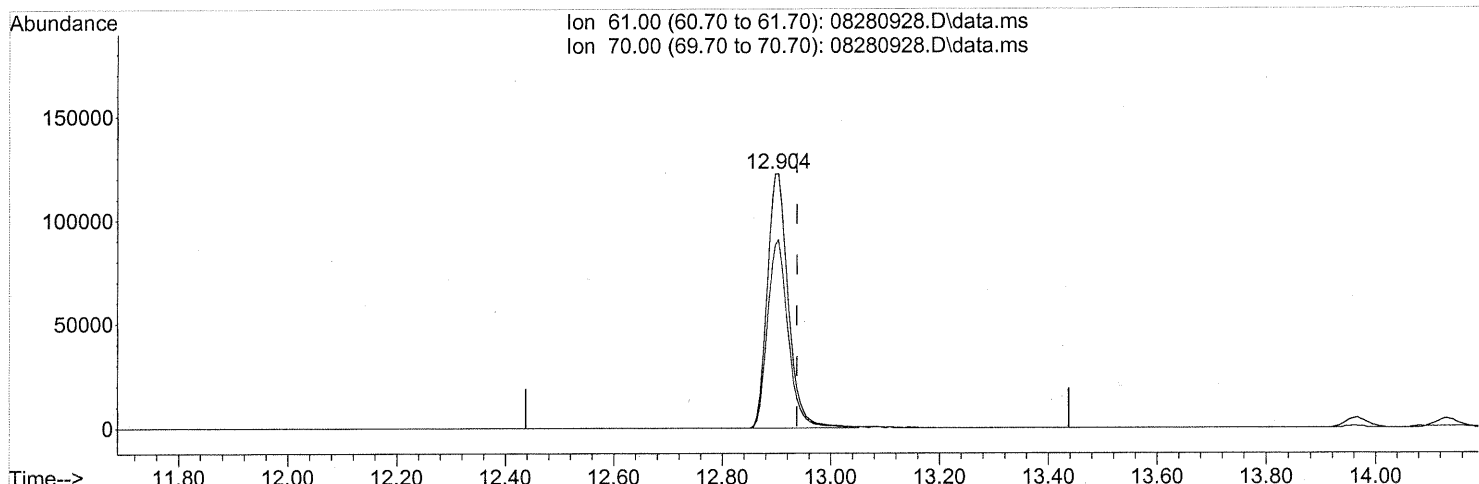
response 263683

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	400.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280928.D
Acq On : 29 Aug 2009 1:12
Operator : EM
Sample : P0902899-005 (1000ml)
Misc : Env. H & E 102519
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08280928.D\data.ms

(30) Ethyl Acetate (T)

12.904min (-0.034) 35.88ng

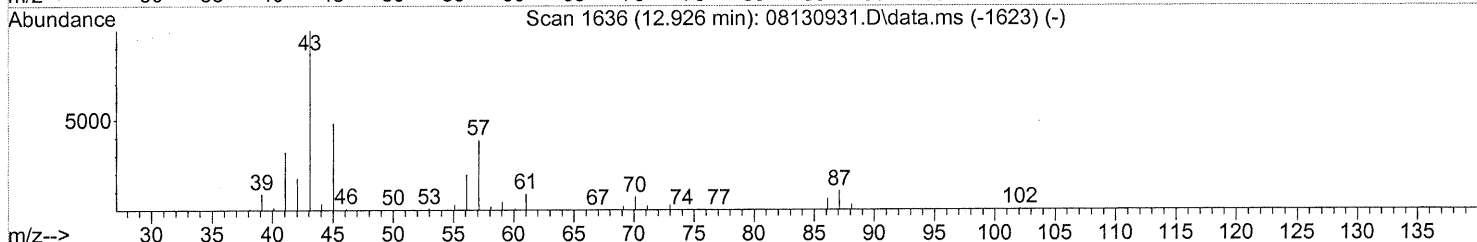
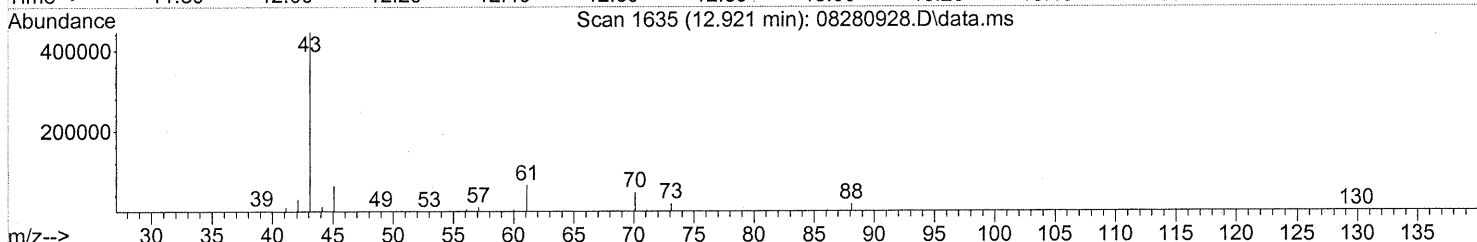
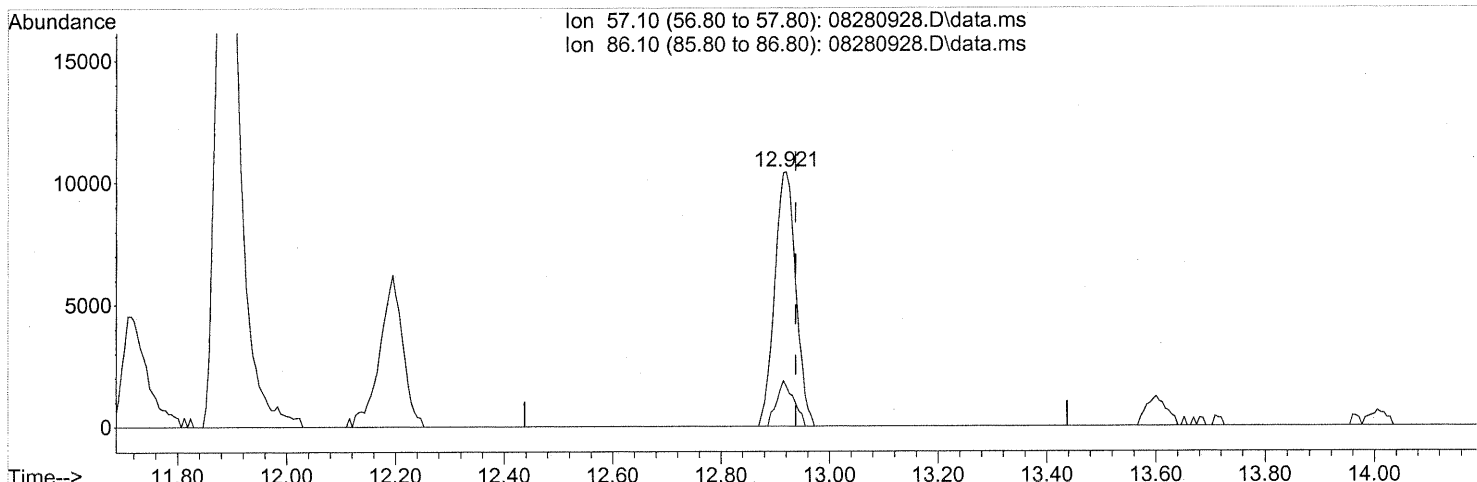
response 328642

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	73.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

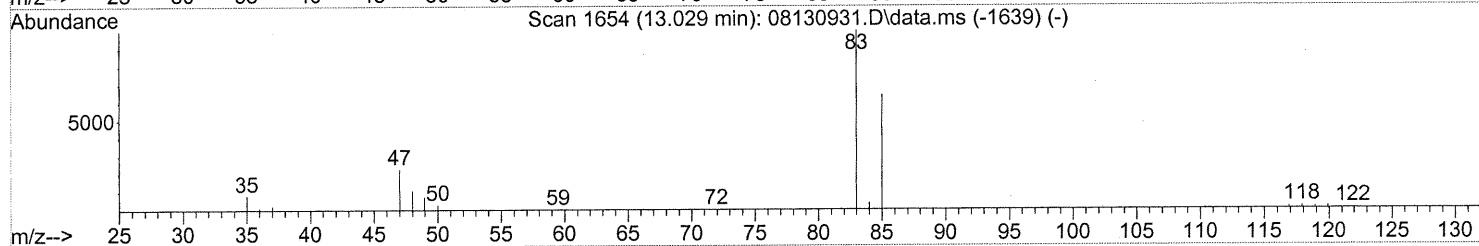
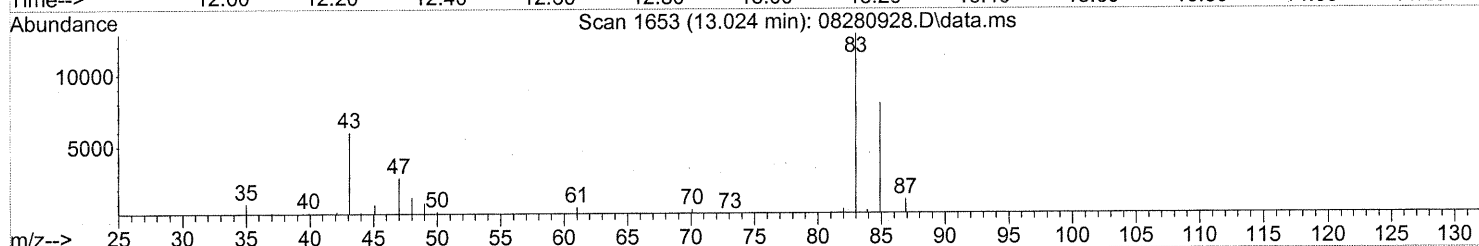
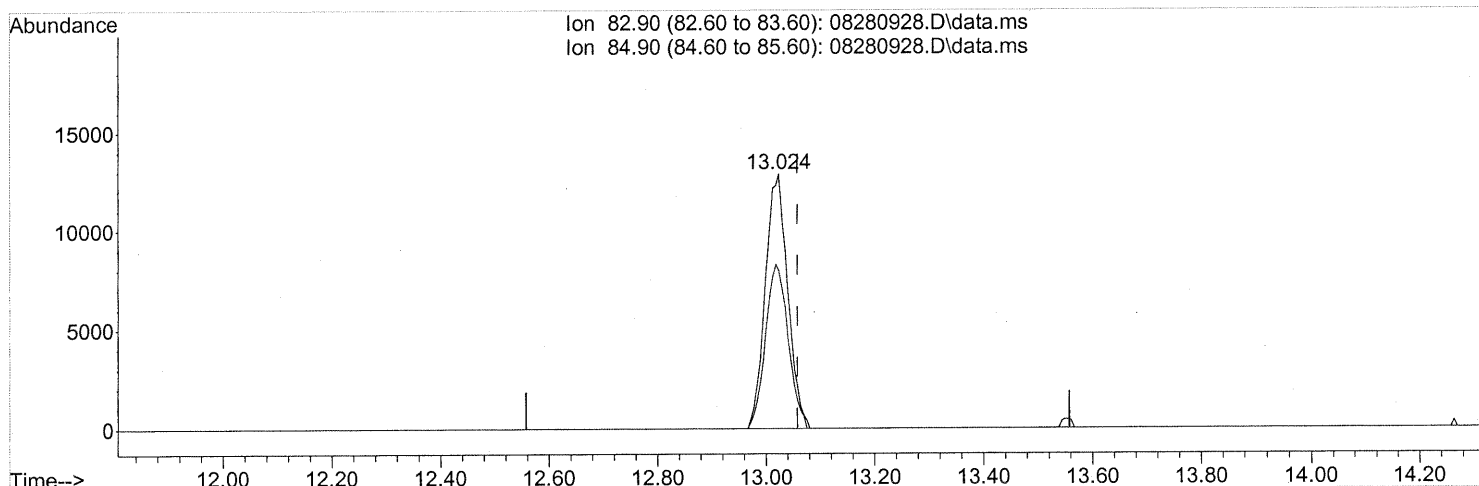
(31) n-Hexane (T)
 12.921min (-0.017) 0.63ng
 response 28060

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	14.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(32) Chloroform (T)

13.024min (-0.034) 0.99ng

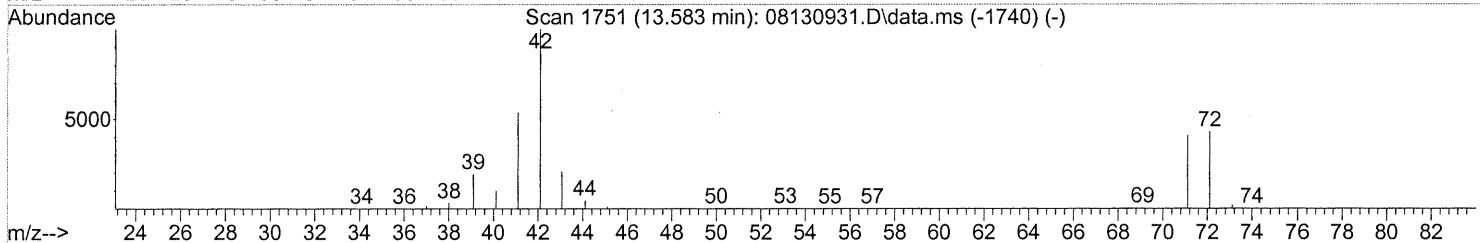
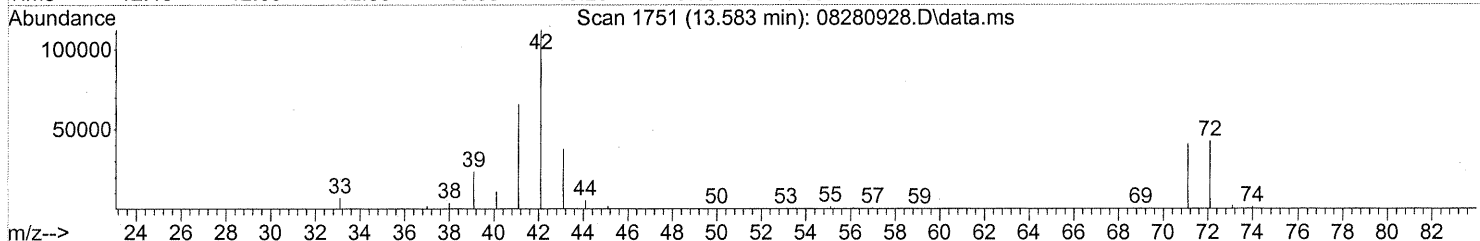
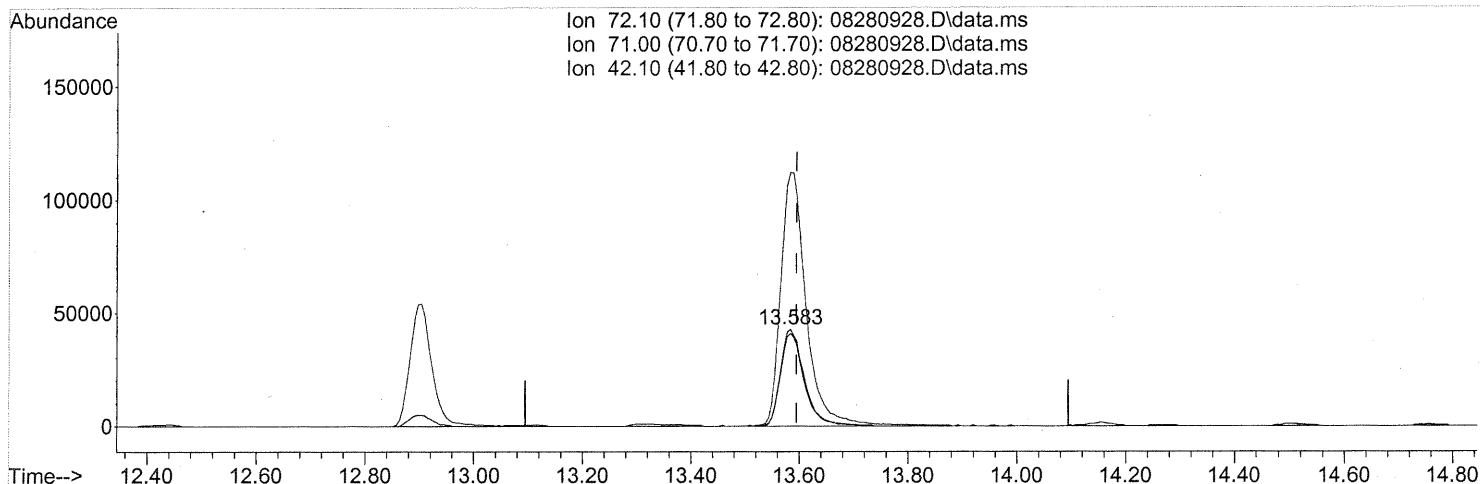
response 36843

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.583min (-0.011) 8.85ng

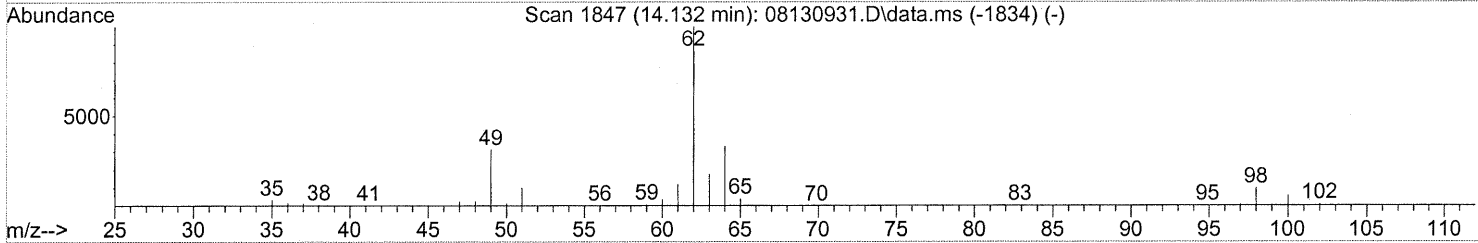
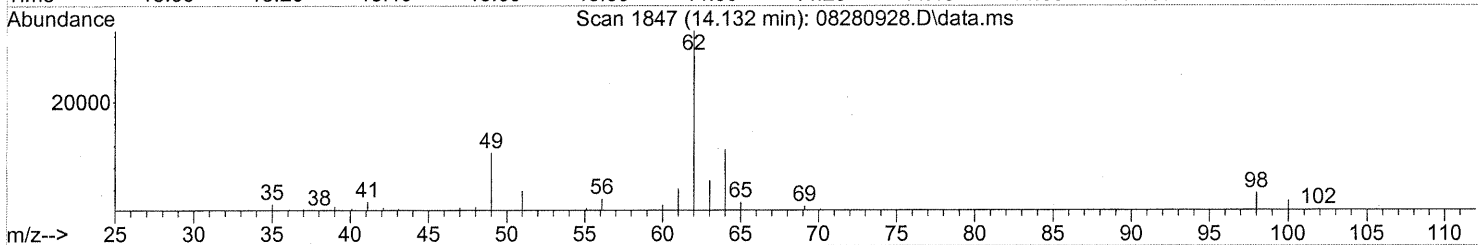
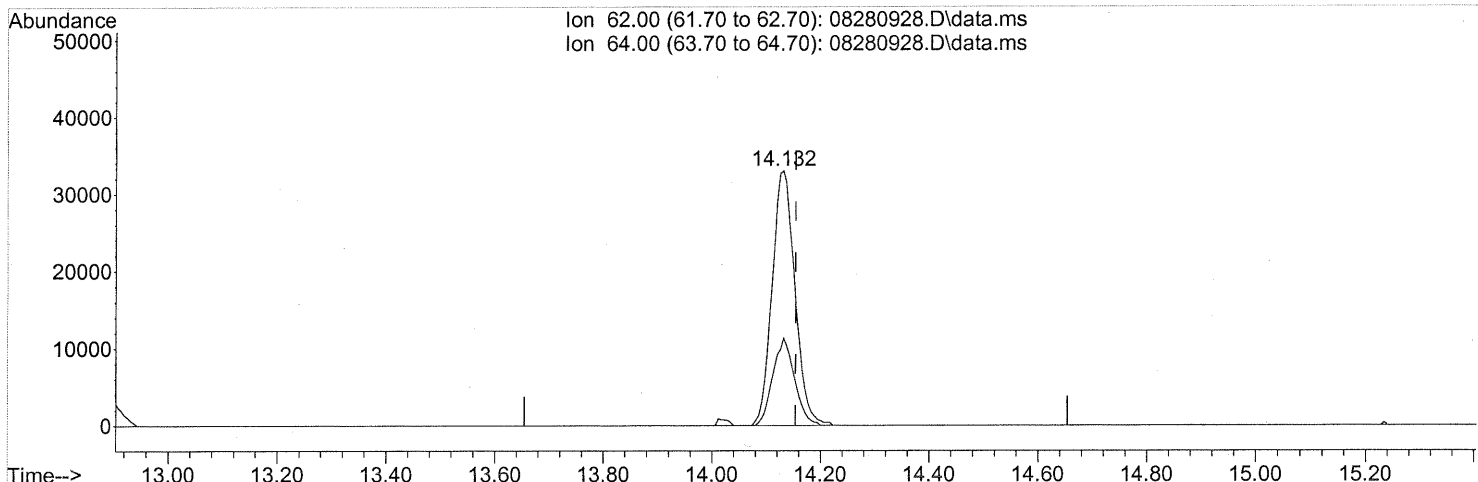
response 129933

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	94.58
42.10	206.50	280.26#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 3.38ng

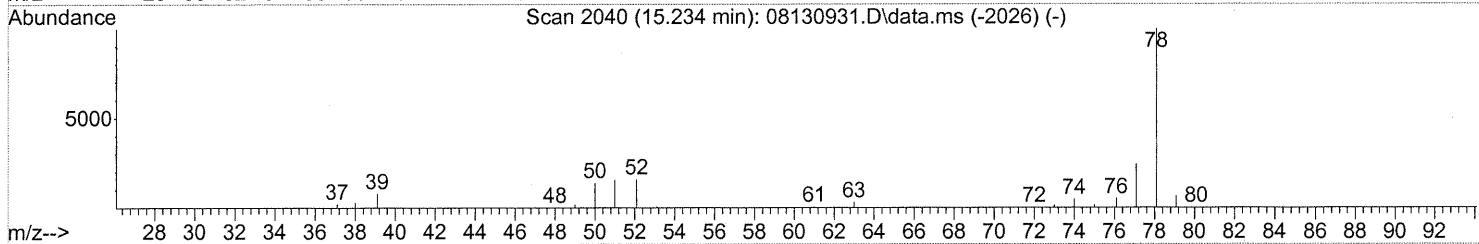
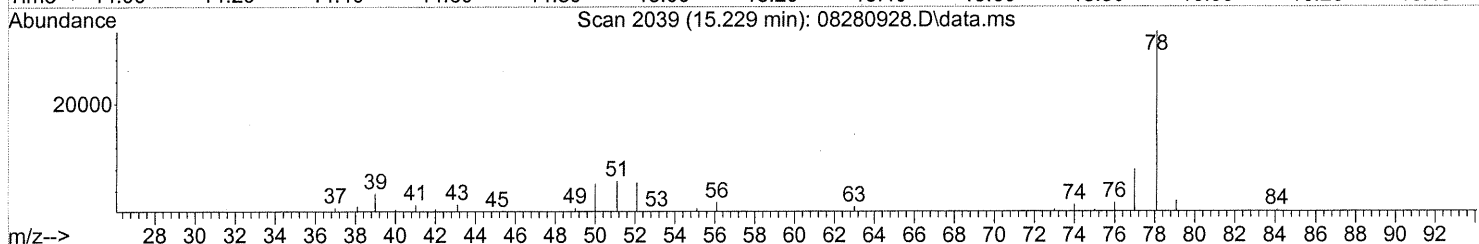
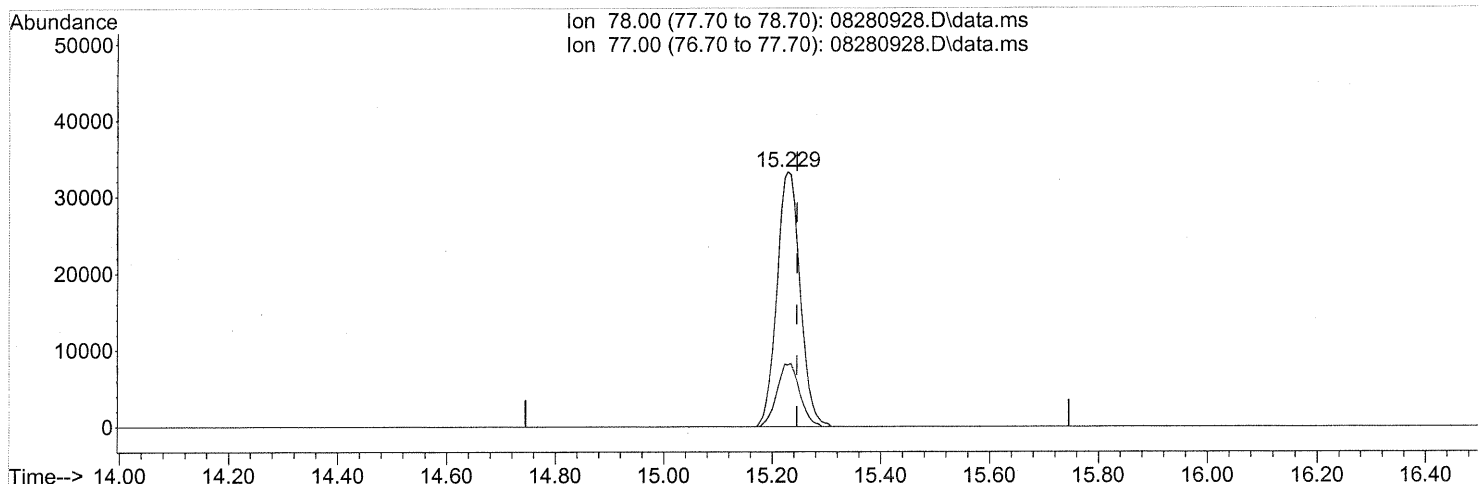
response 96591

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	32.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(41) Benzene (T)

15.229min (-0.017) 1.00ng

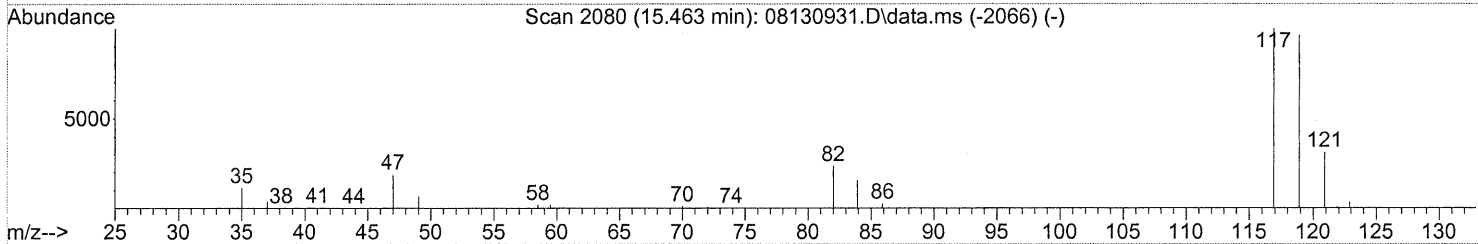
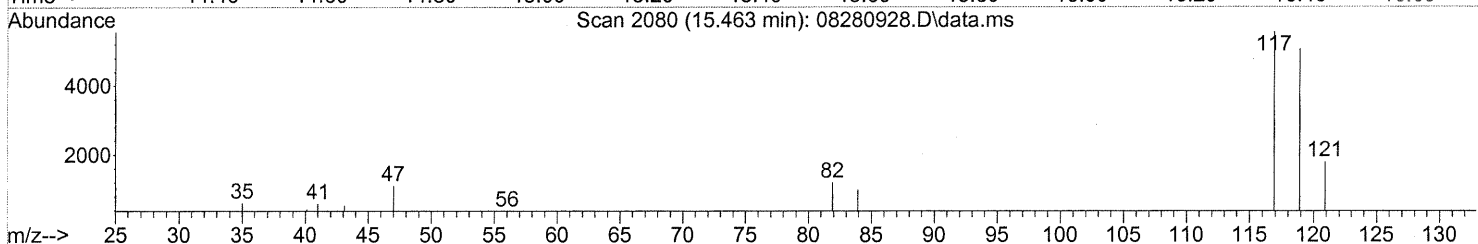
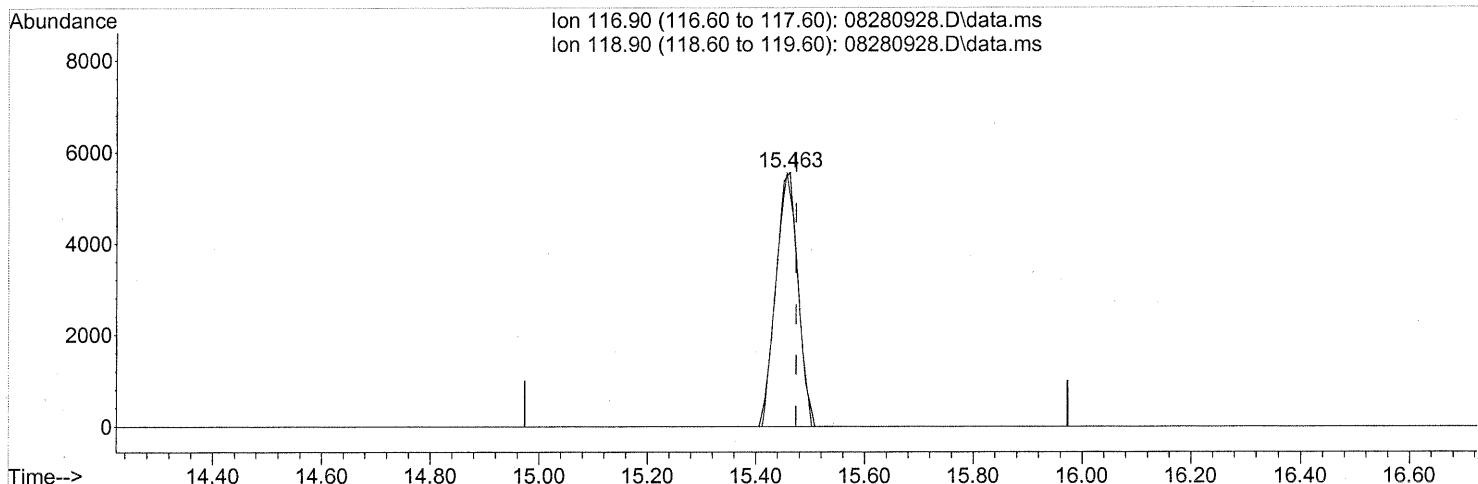
response 98487

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(42) Carbon Tetrachloride (T)

15.463min (-0.011) 0.57ng

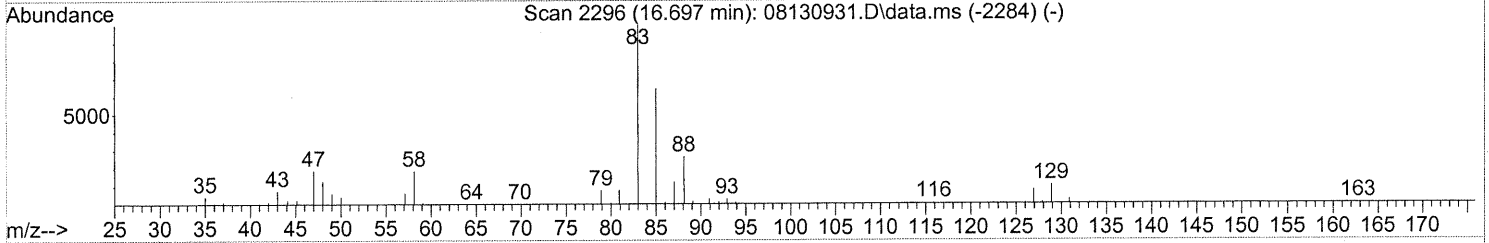
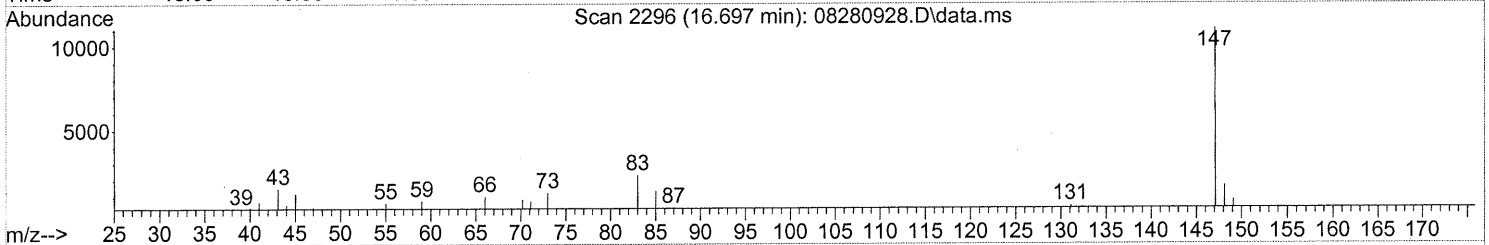
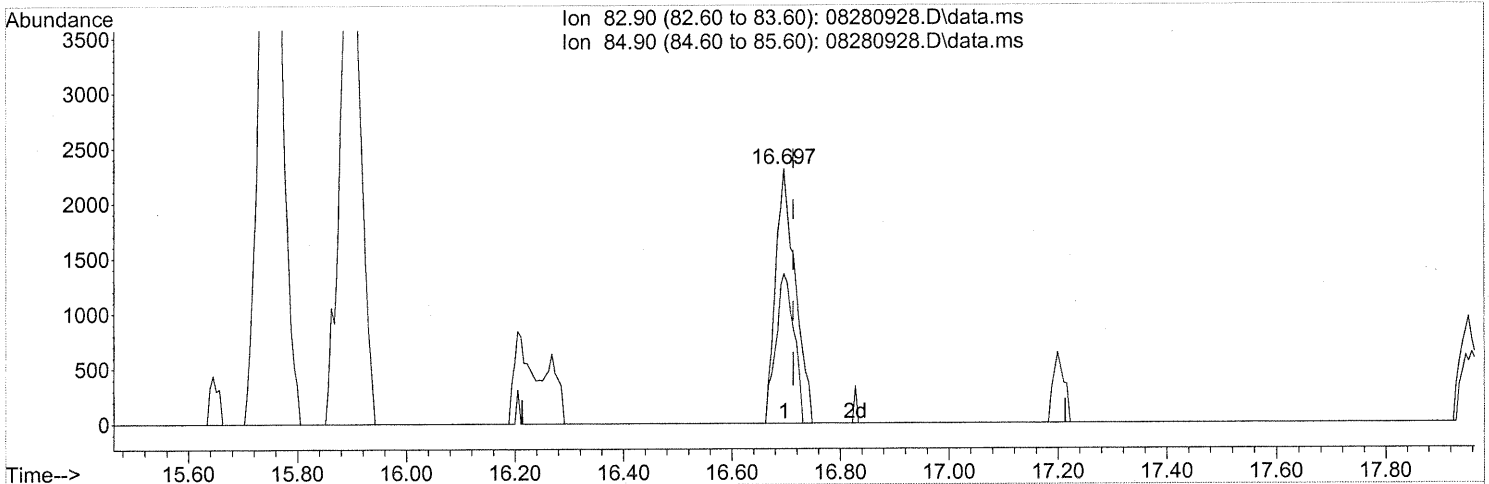
response 15749

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	97.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.697min (-0.017) 0.20ng

response 5792

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	54.40
0.00	0.00	0.00
0.00	0.00	0.00

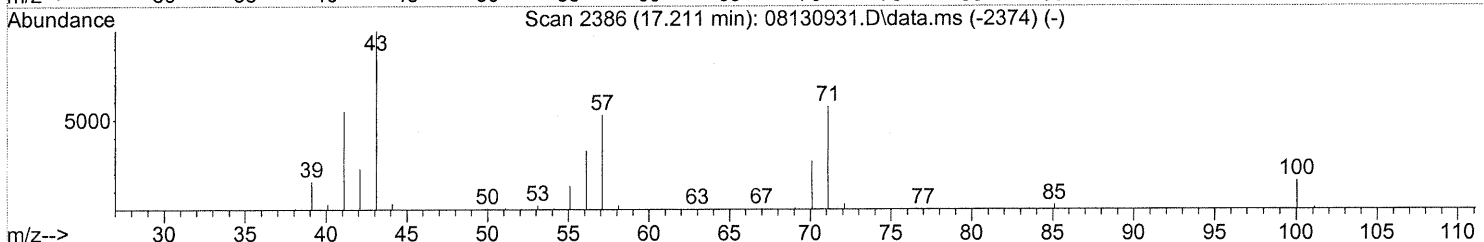
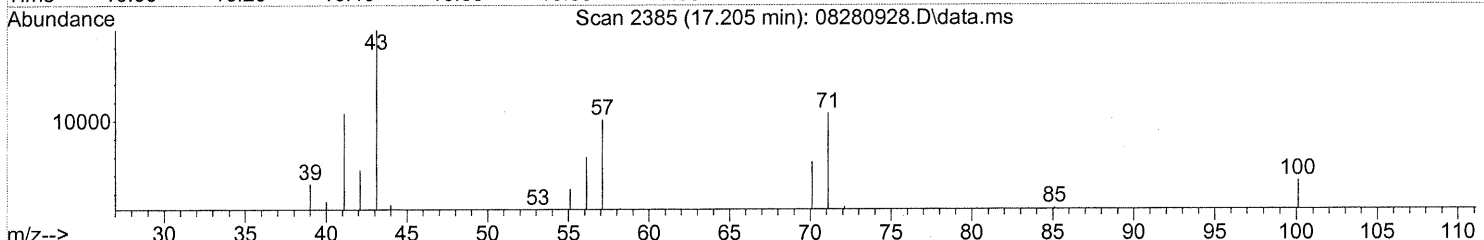
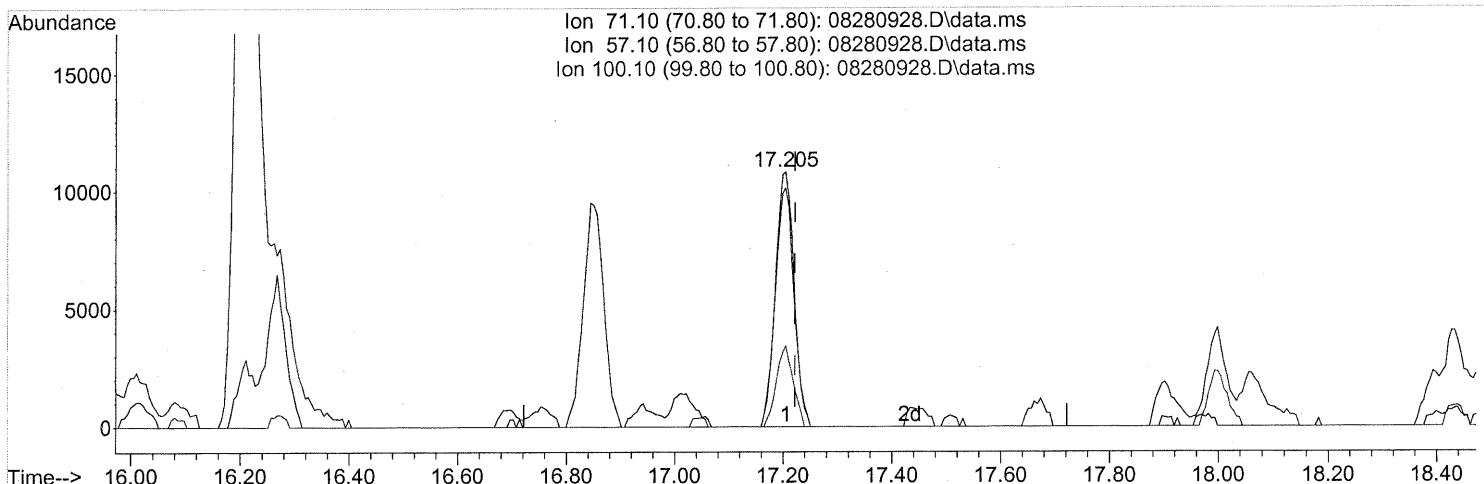
FP em 9/2/09

we 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

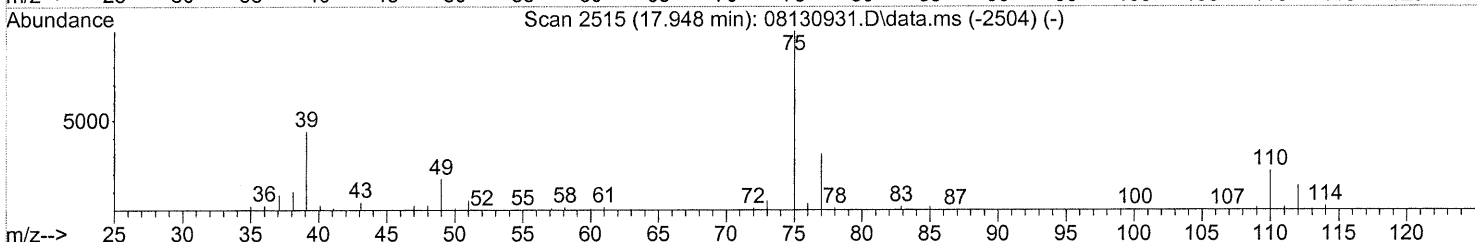
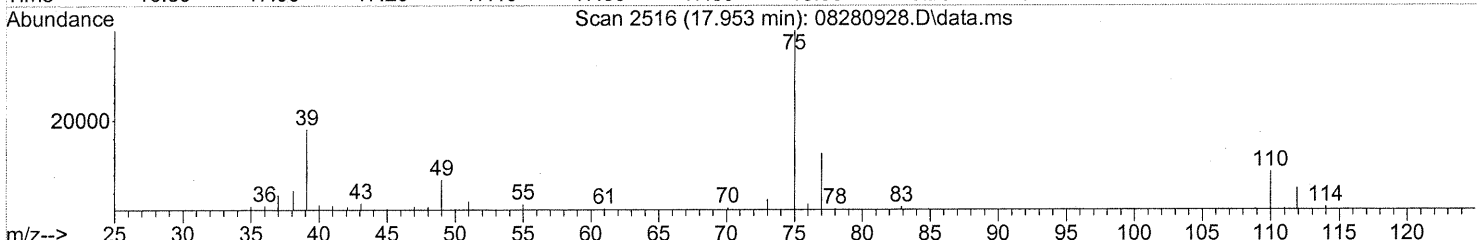
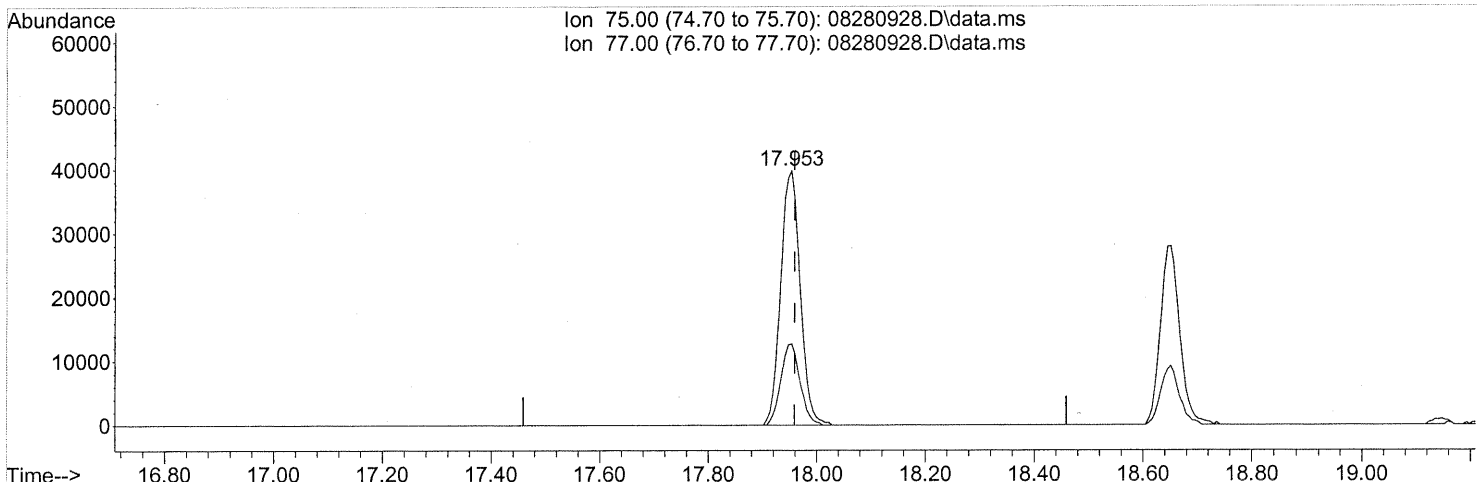
(51) n-Heptane (T)
 17.205min (-0.017) 0.98ng
 response 25699

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	93.80
100.10	30.70	28.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(52) cis-1,3-Dichloropropene (T)

17.953min (-0.006) 2.70ng

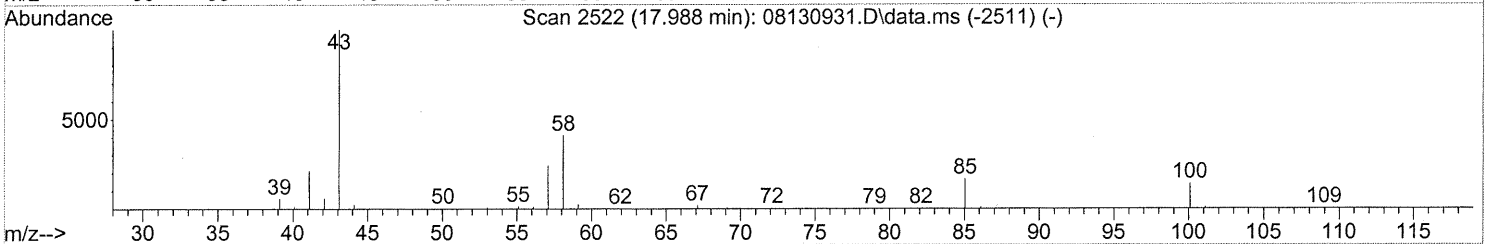
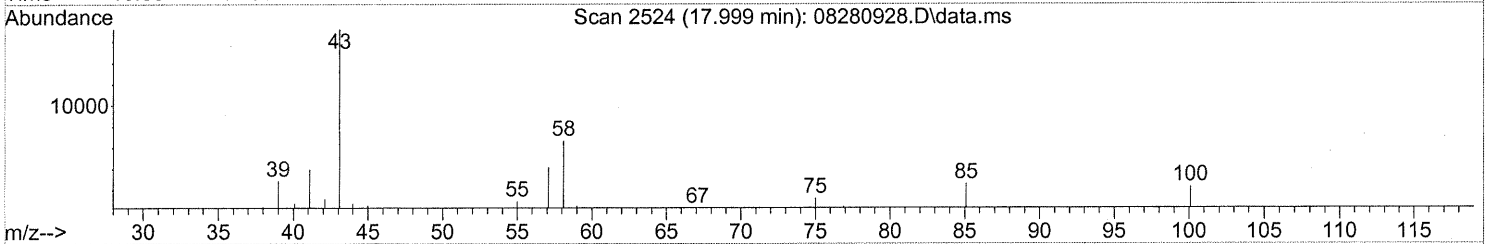
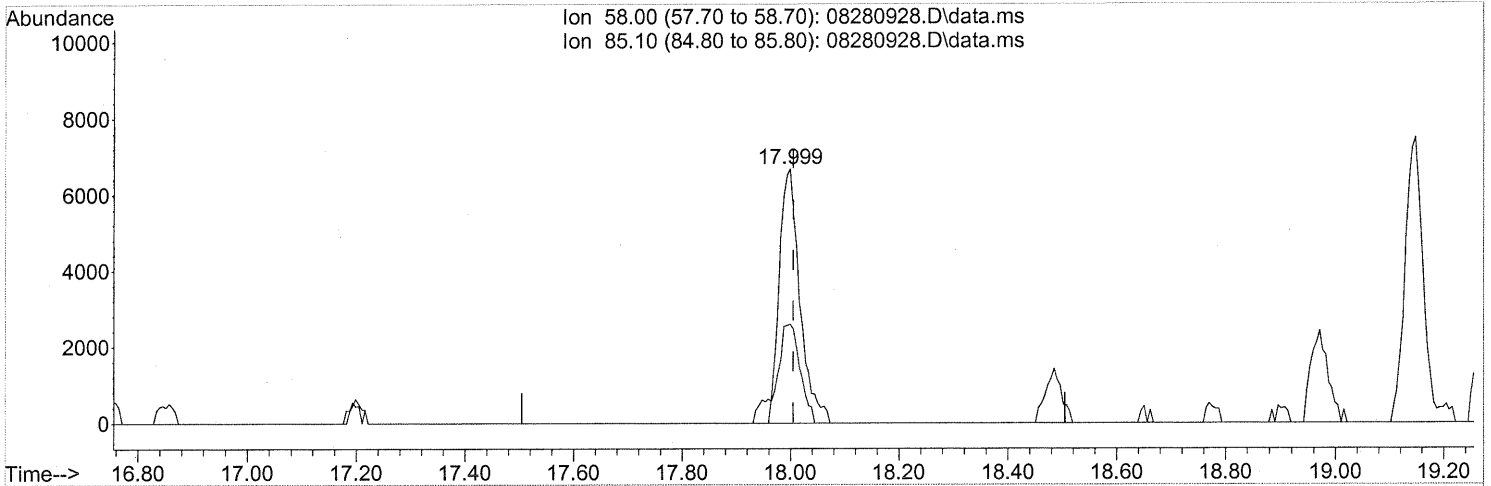
response 98686

Ion	Exp%	Act%
75.00	100	100
77.00	31.60	31.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

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

17.999min (-0.006) 0.82ng

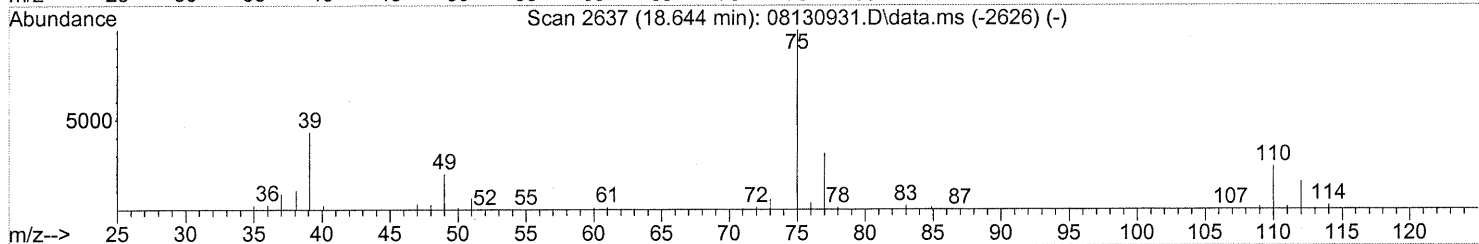
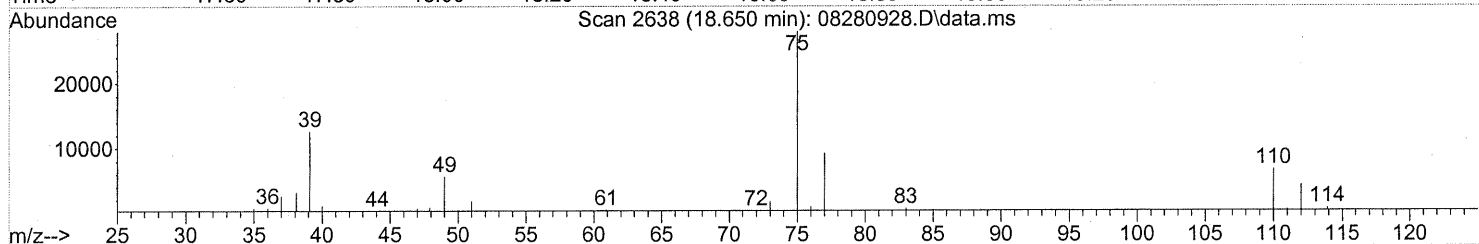
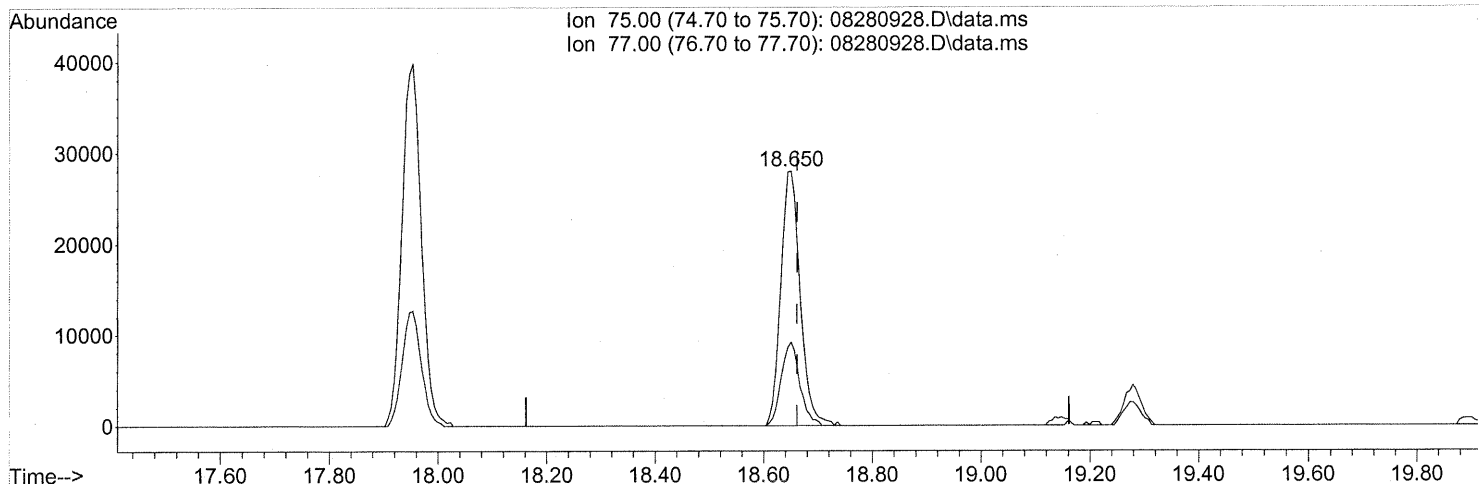
response 17559

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	45.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.650min (-0.011) 2.17ng

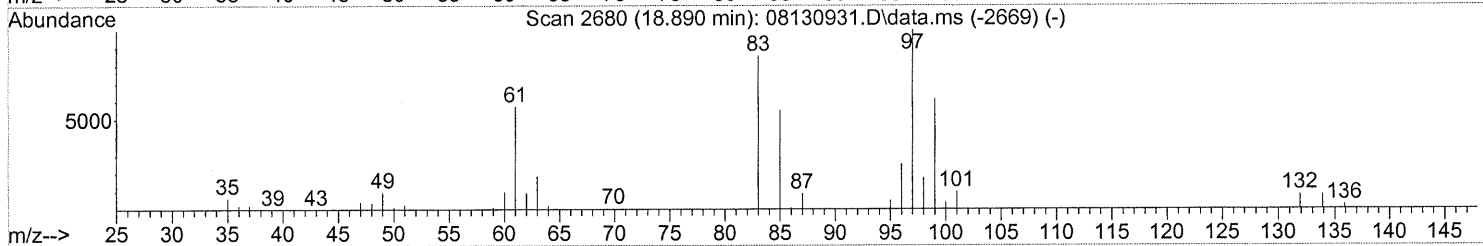
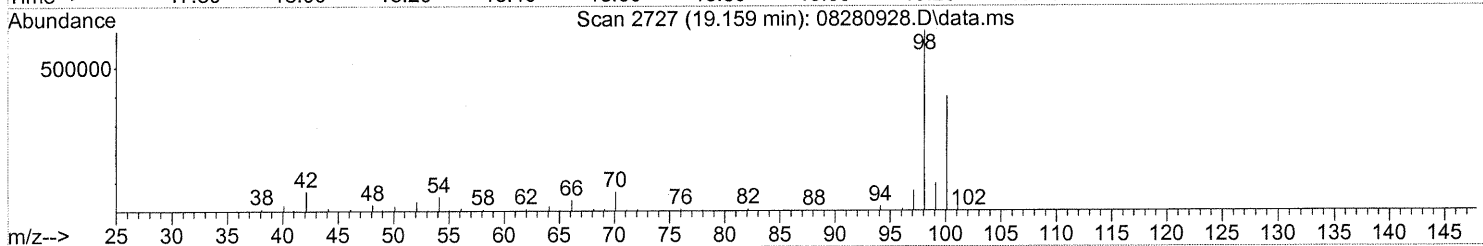
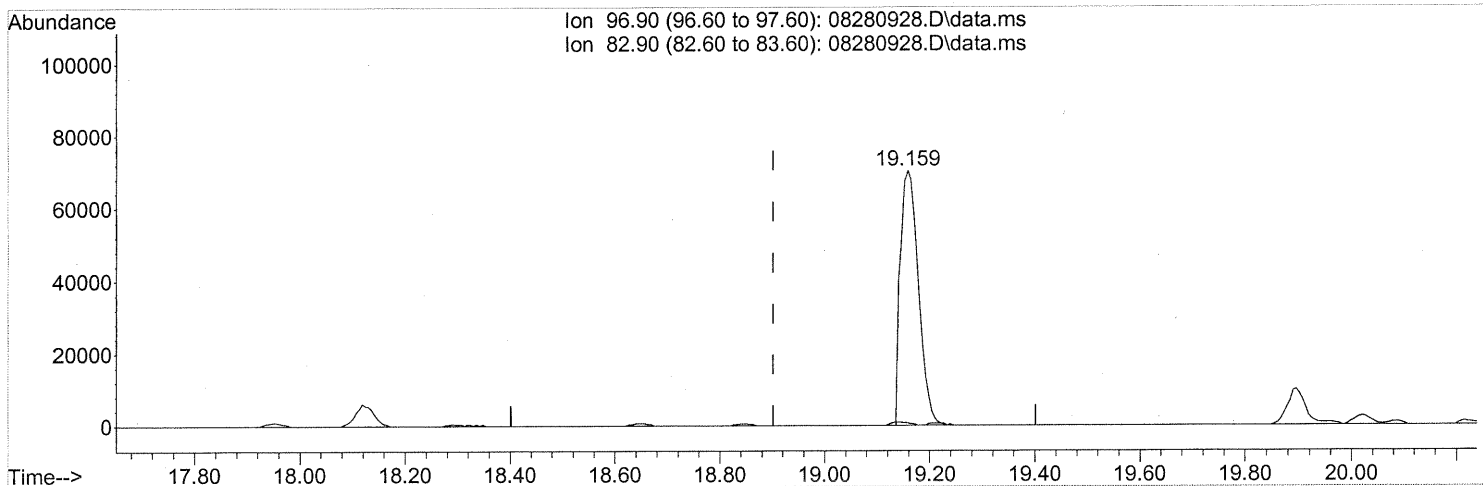
response 69220

Ion	Exp%	Act%
75.00	100	100
77.00	31.60	31.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

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

19.159min (+0.257) 7.94ng

response 167440

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

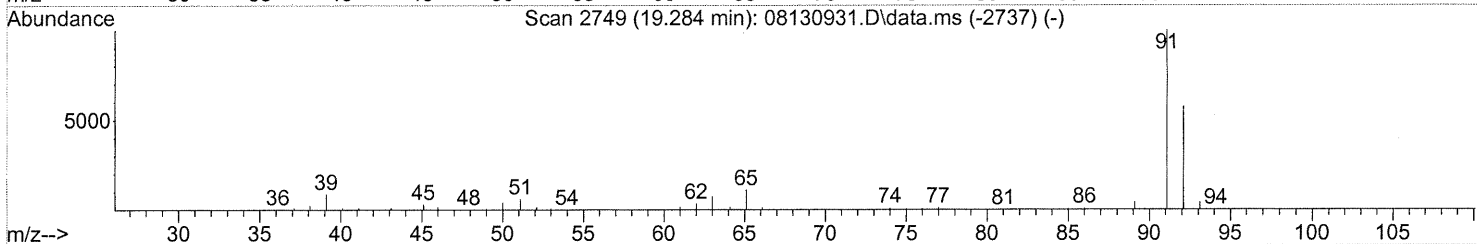
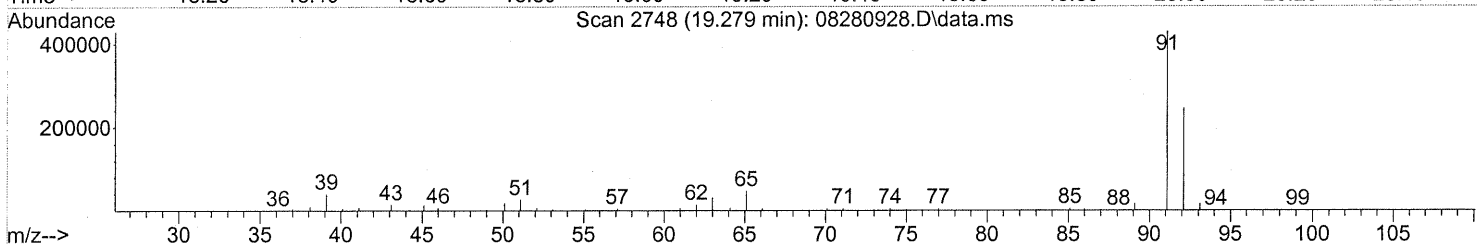
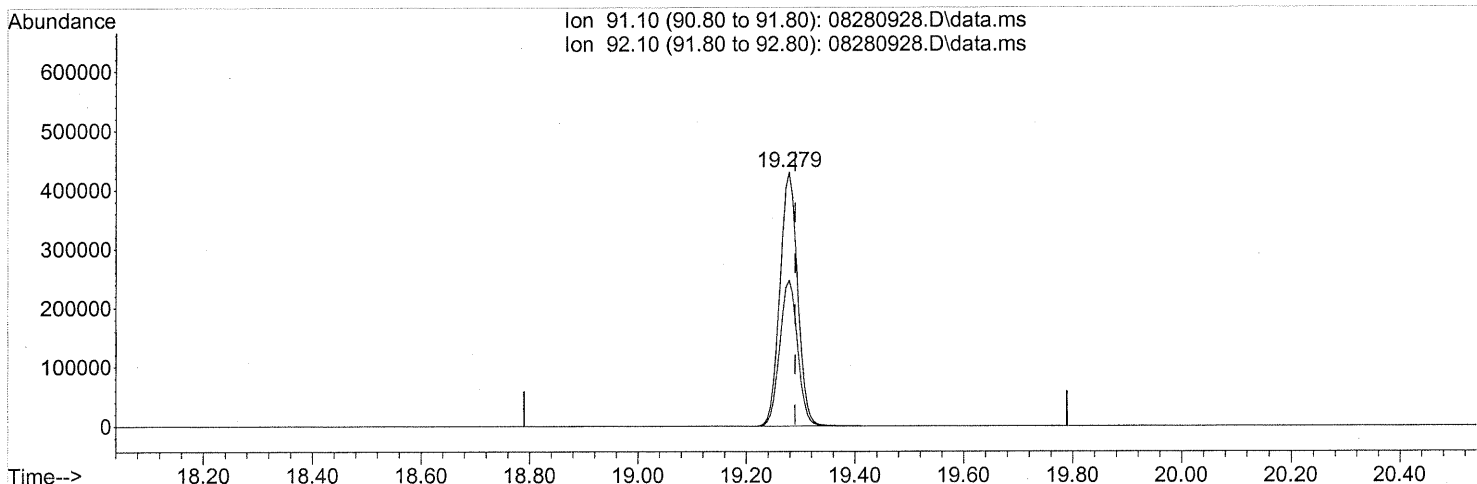
FP em 9/2/09

re 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 9.42ng

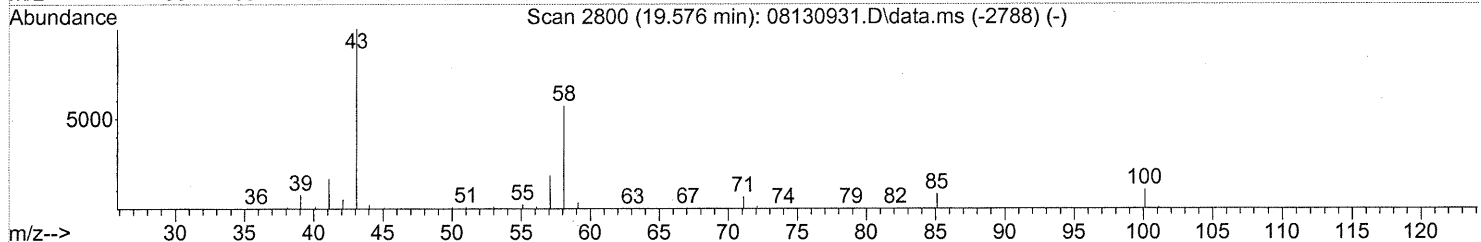
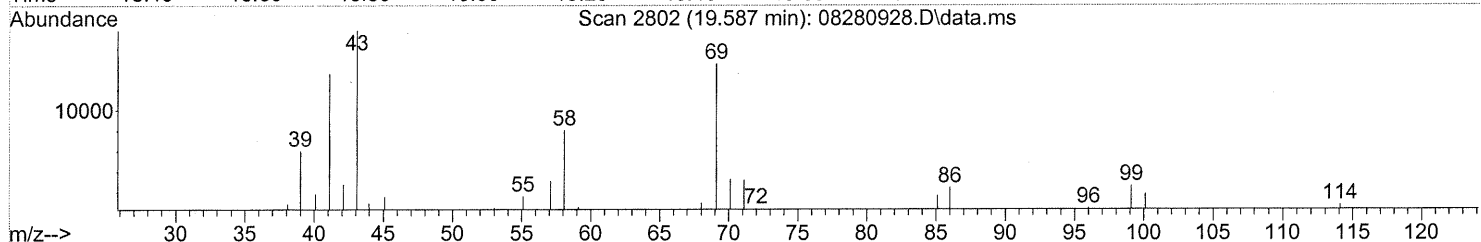
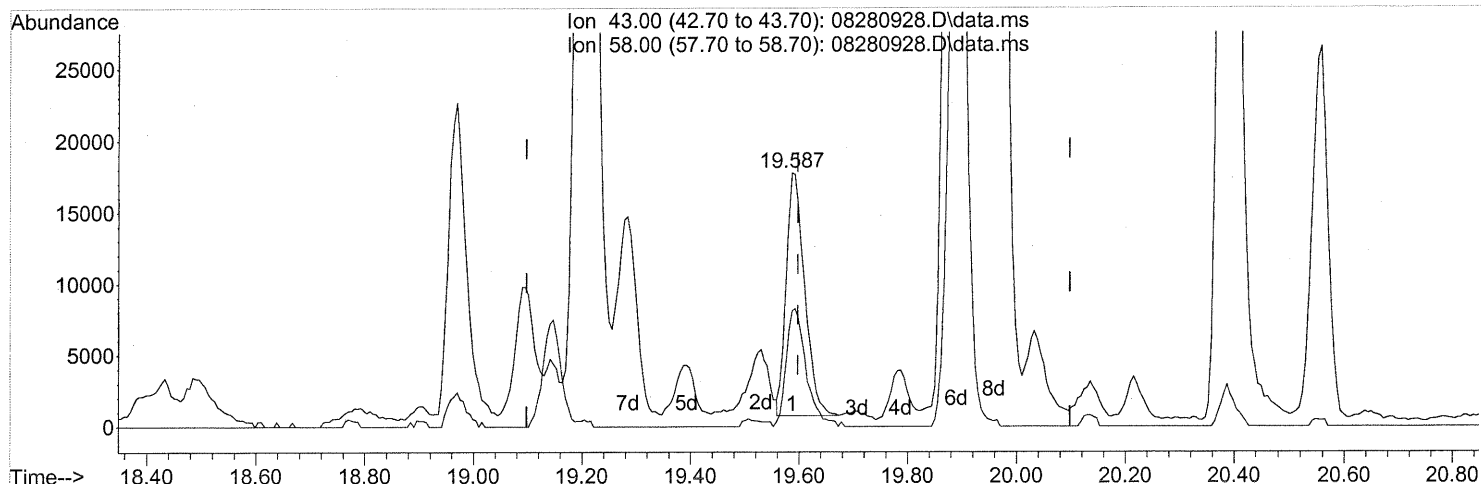
response 966706

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

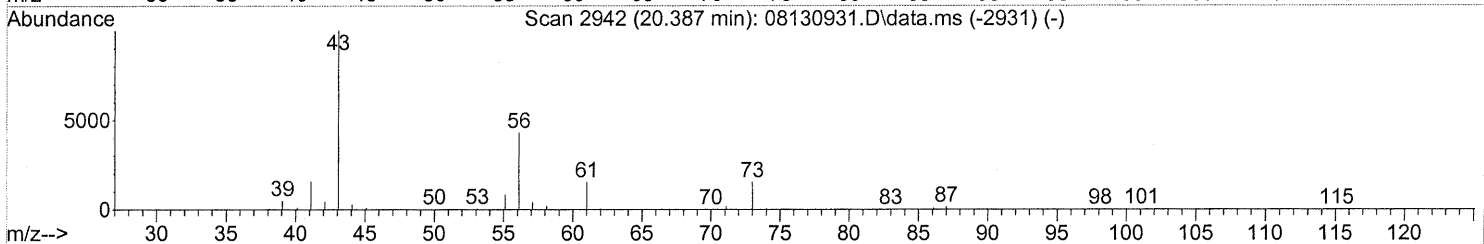
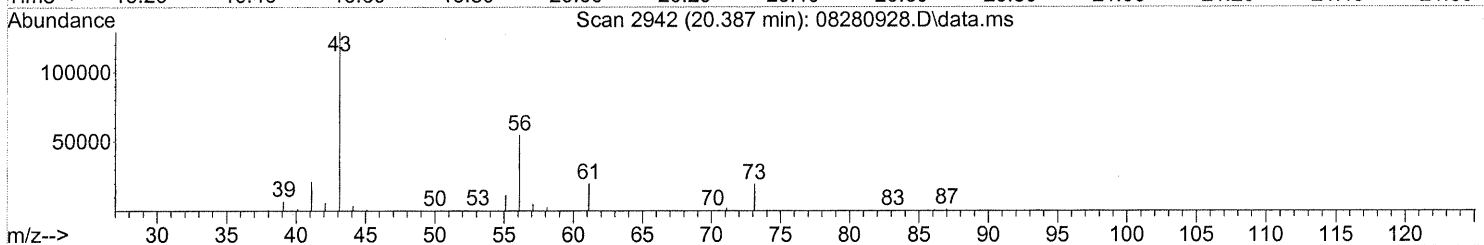
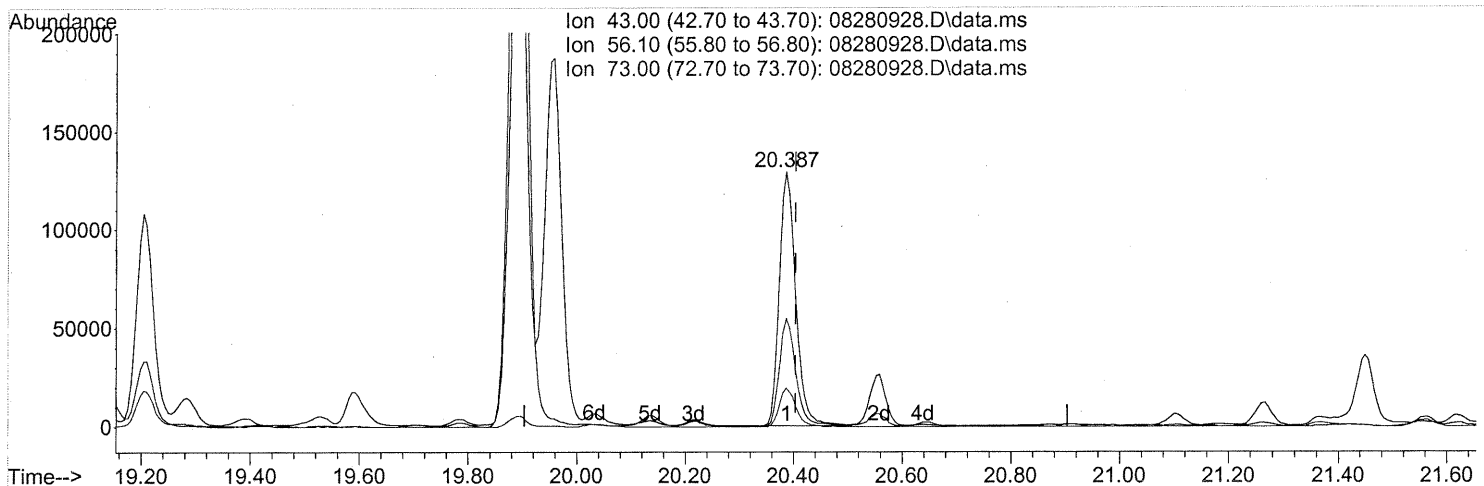
(59) 2-Hexanone (T)
 19.587min (-0.011) 0.76ng
 response 40282

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	52.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(62) n-Butyl Acetate (T)

20.387min (-0.017) 4.66ng

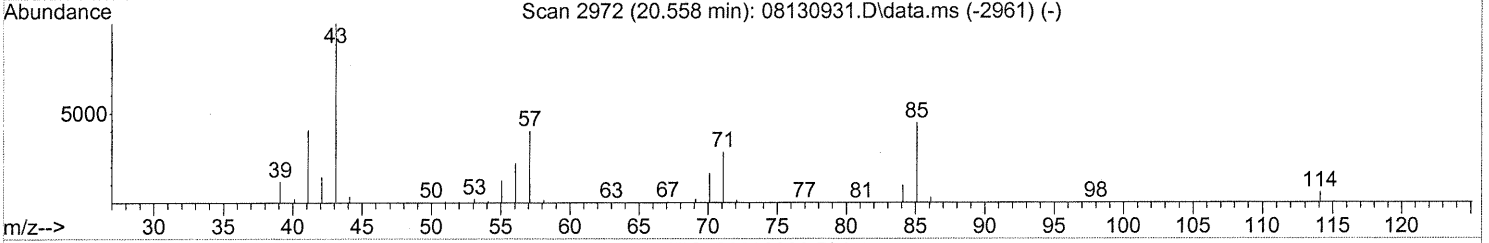
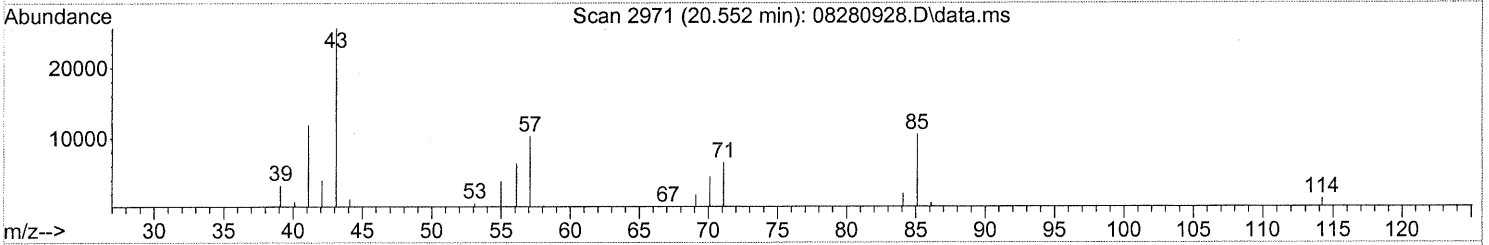
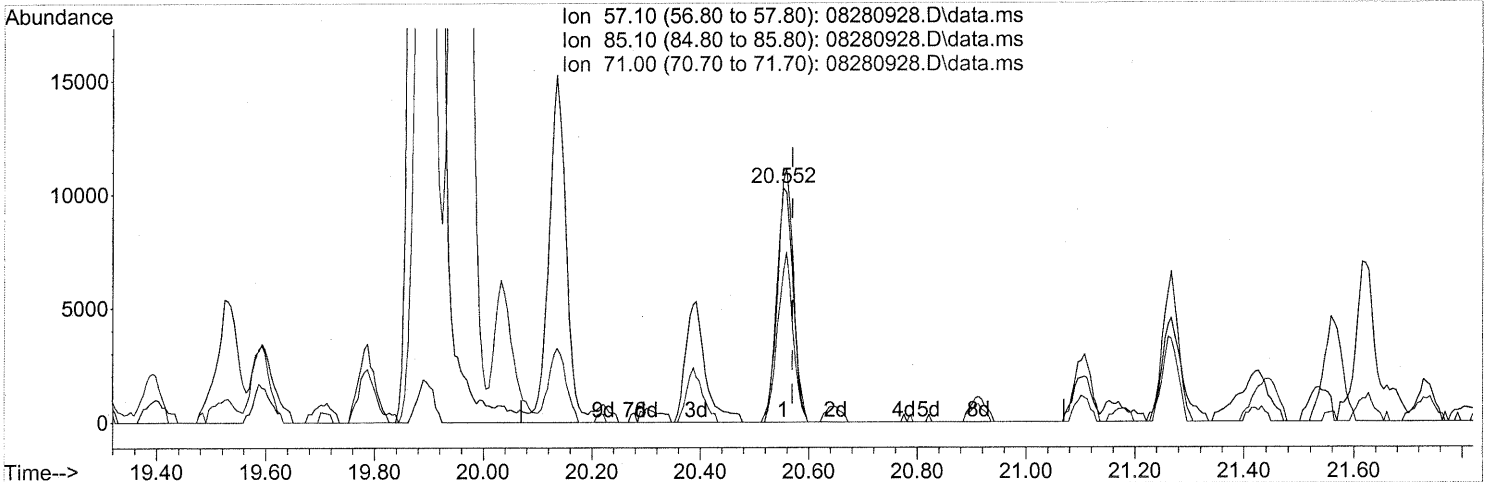
response 271399

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	43.30
73.00	16.90	14.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

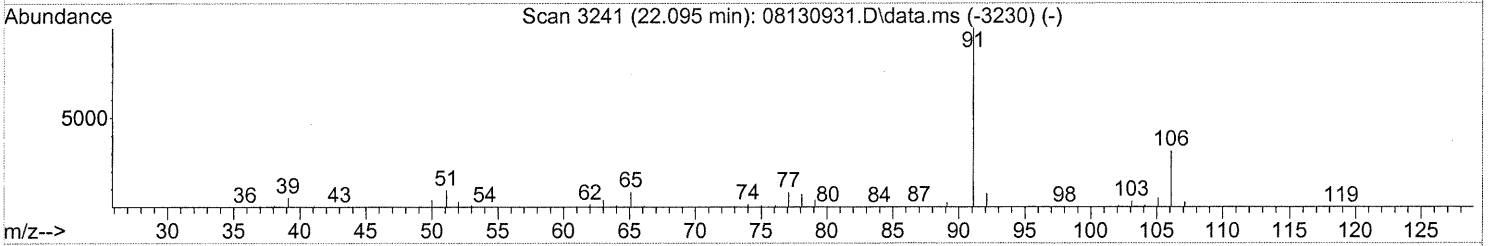
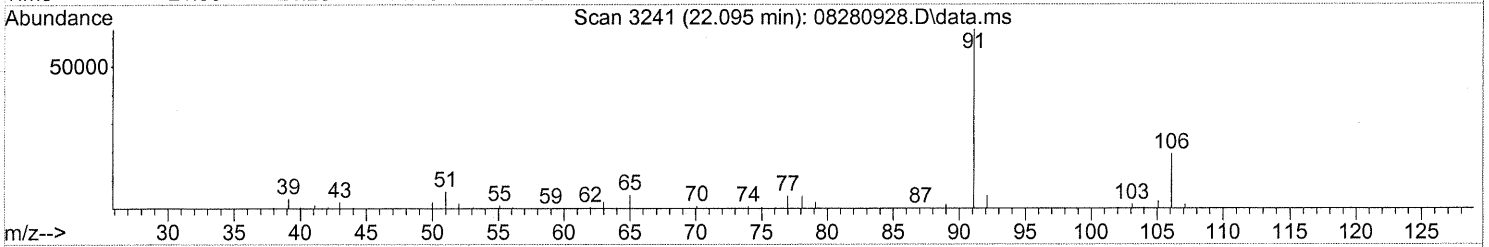
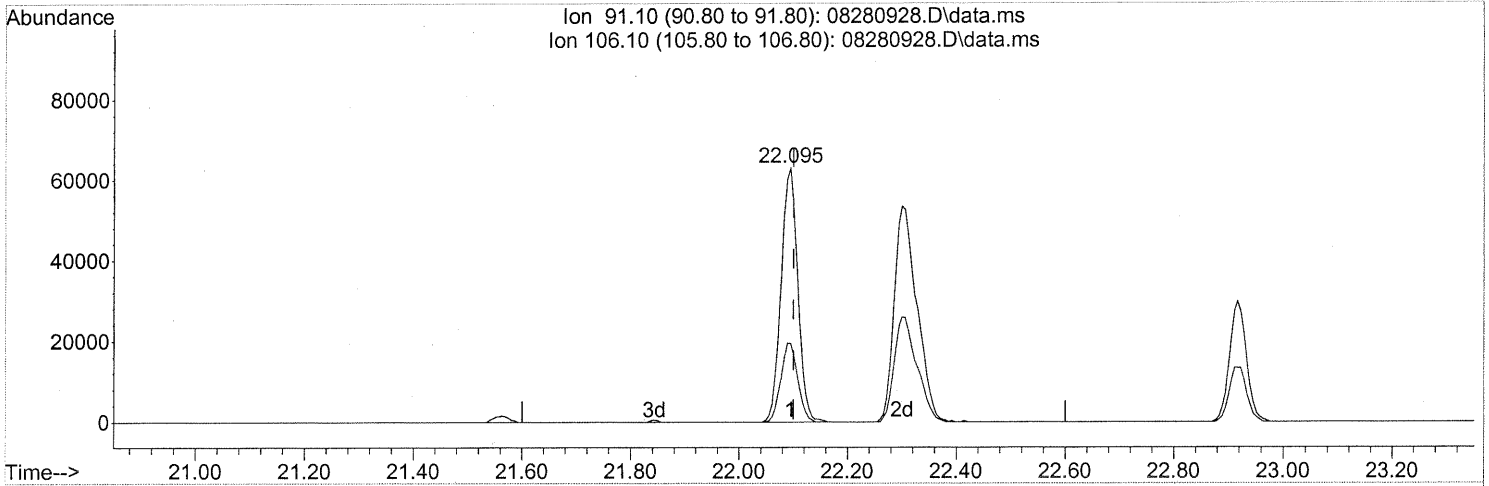
(63) n-Octane (T)
 20.552min (-0.017) 0.94ng
 response 21515

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	104.48
71.00	75.10	67.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

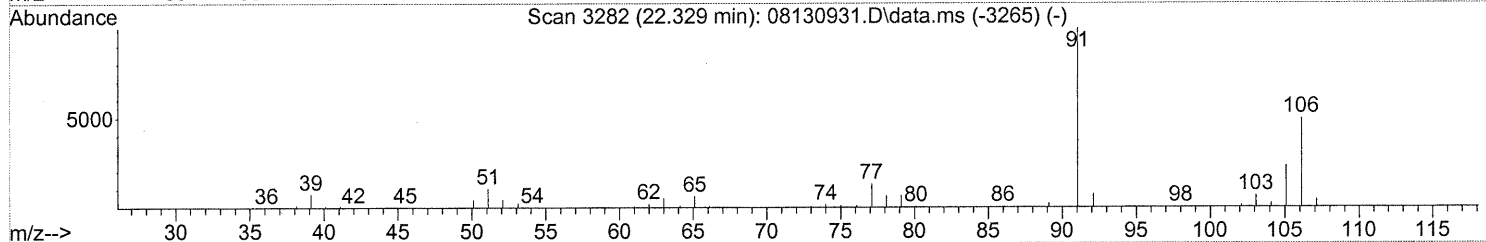
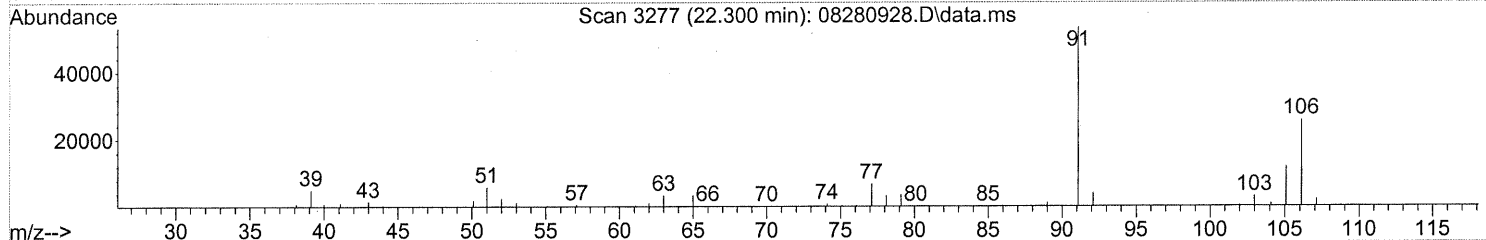
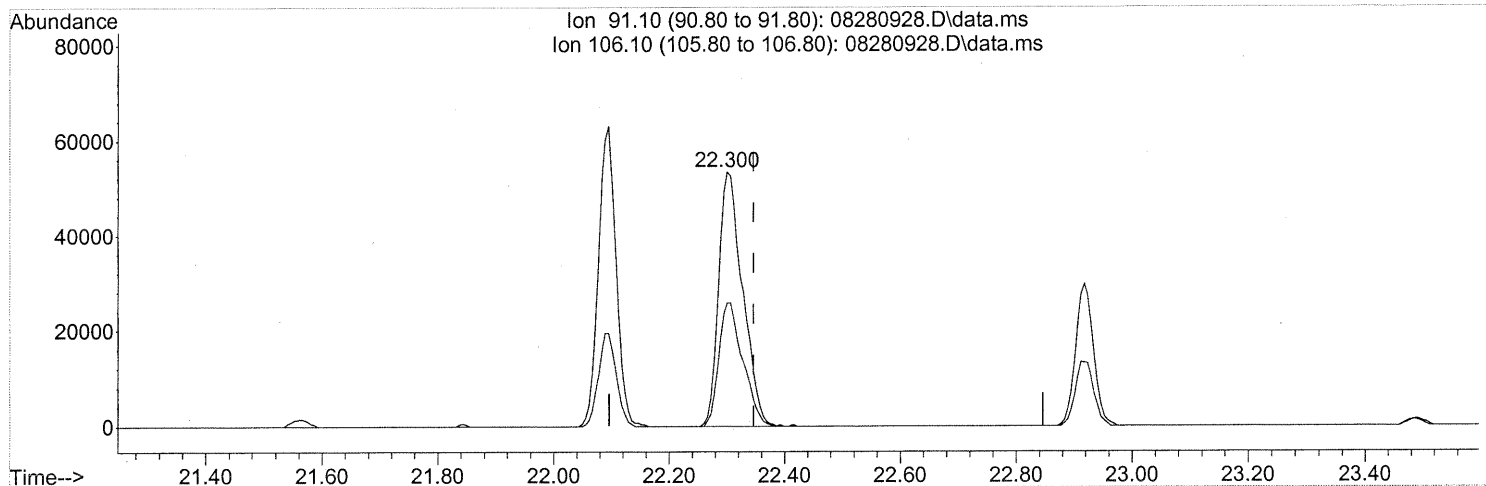
(66) Ethylbenzene (T)
 22.095min (-0.006) 1.21ng
 response 133853

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	31.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

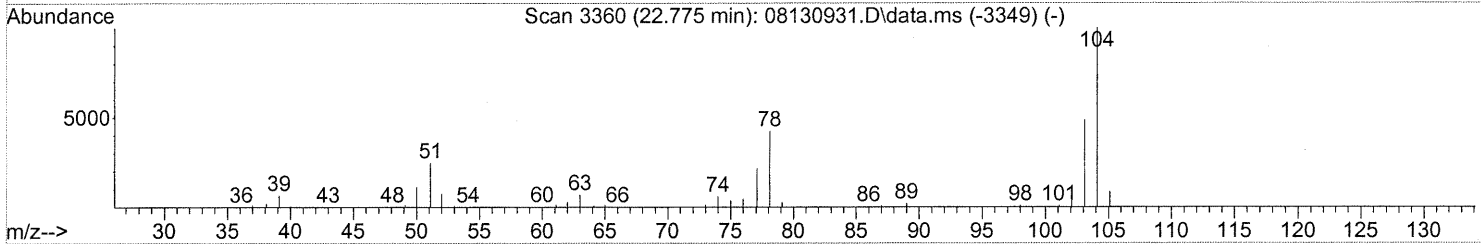
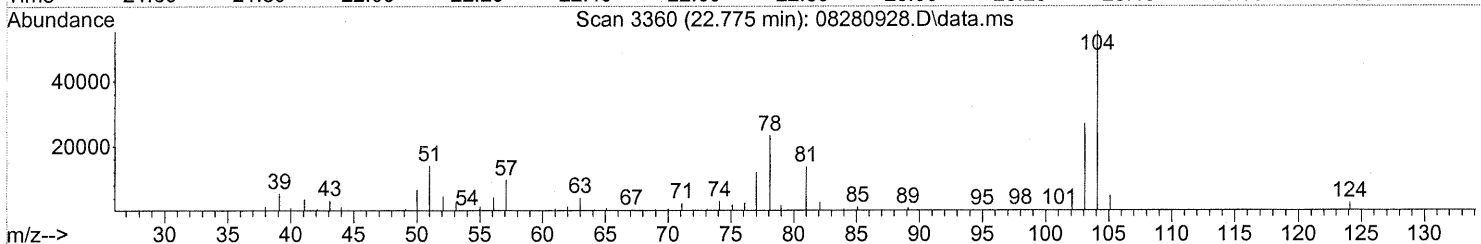
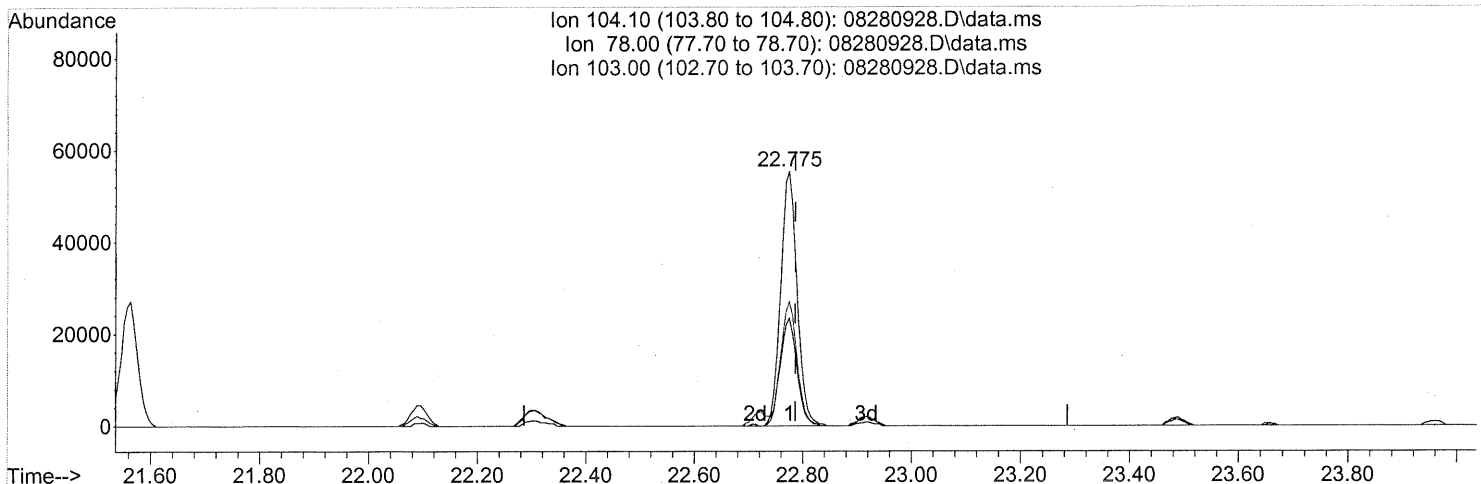
(67) m- & p-Xylenes (T)
 22.300min (-0.046) 1.75ng
 response 154035

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	48.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

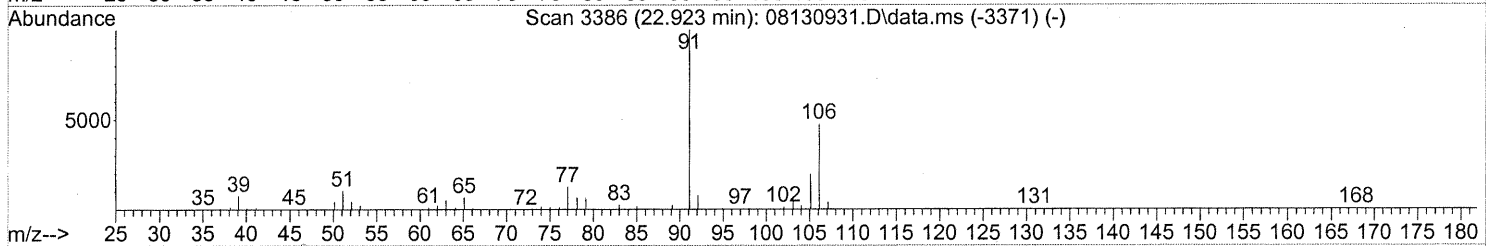
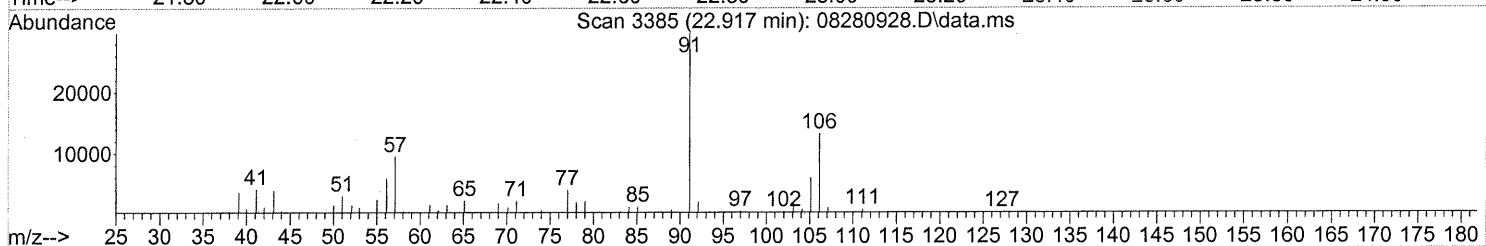
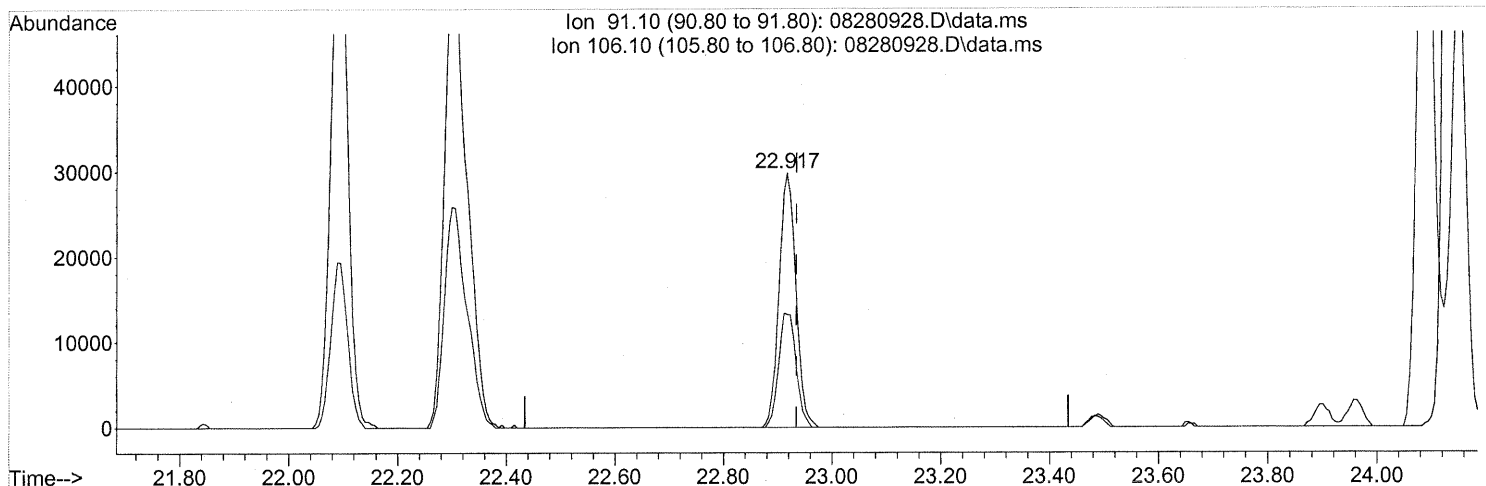
(69) Styrene (T)
 22.775min (-0.011) 1.78ng
 response 115846

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	42.99
103.00	48.70	48.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(70) o-Xylene (T)

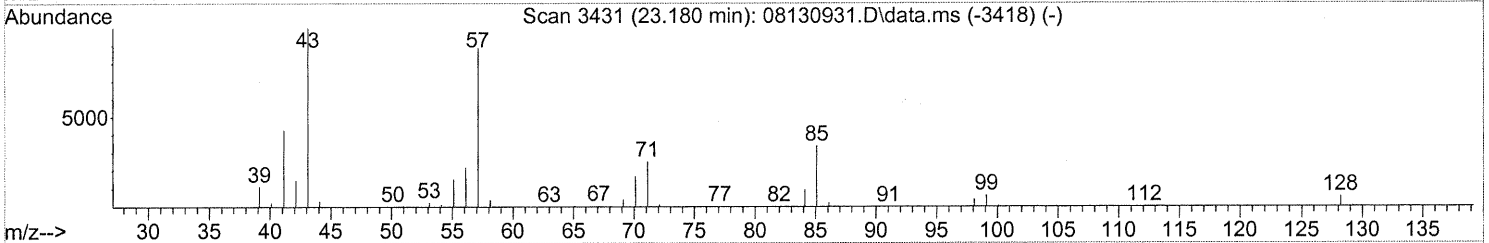
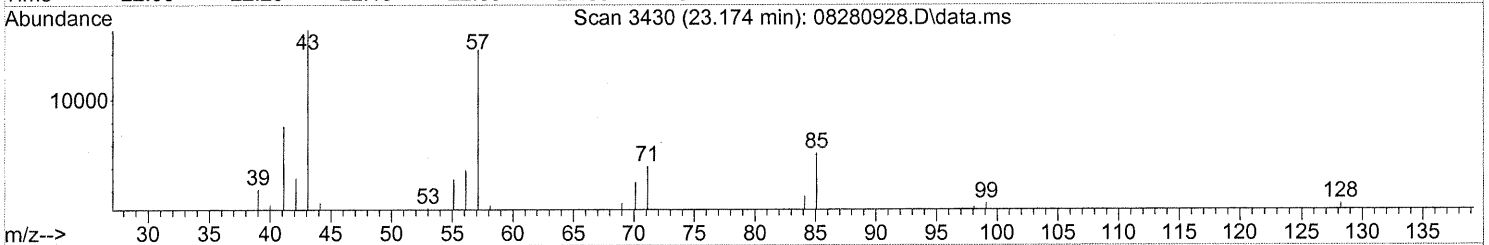
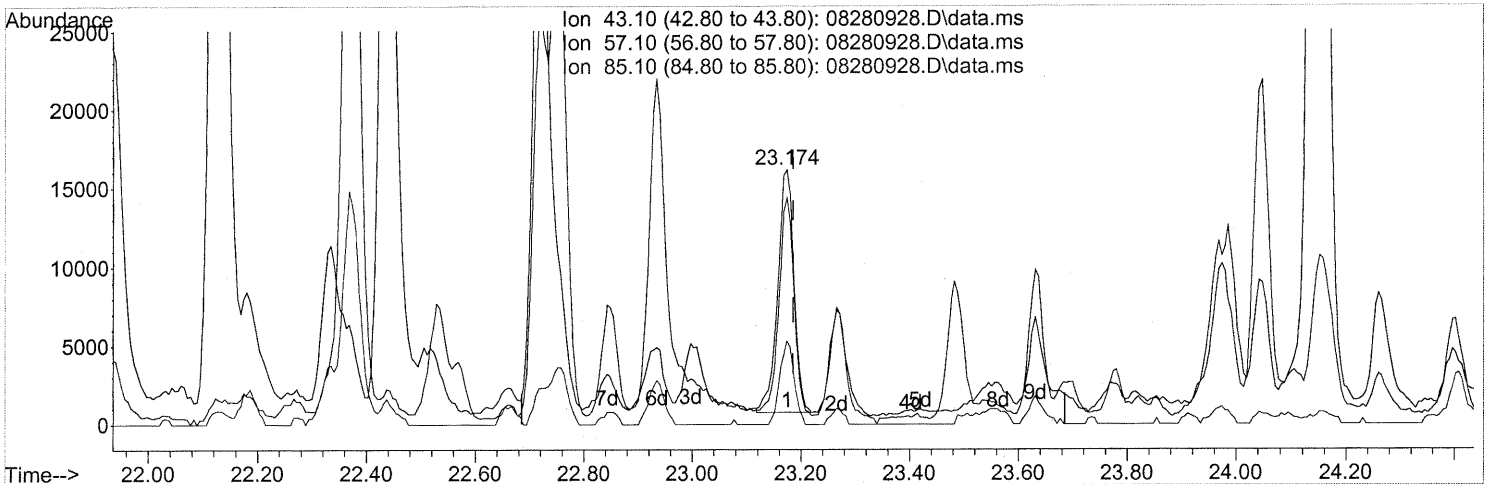
22.917min (-0.017) 0.72ng
 response 63516

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

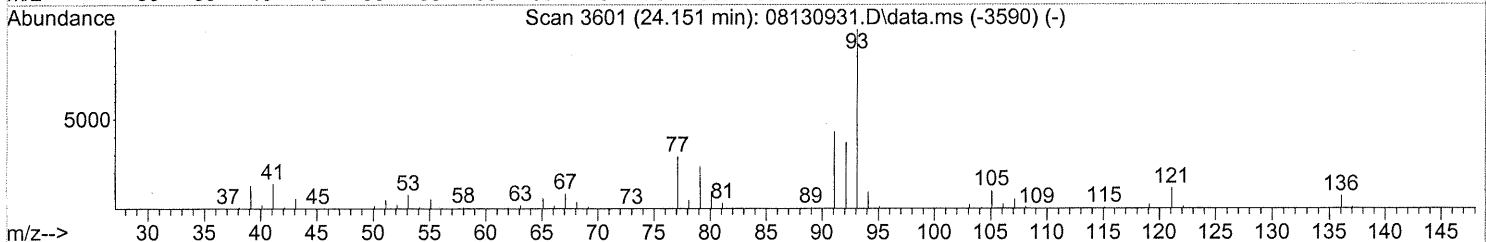
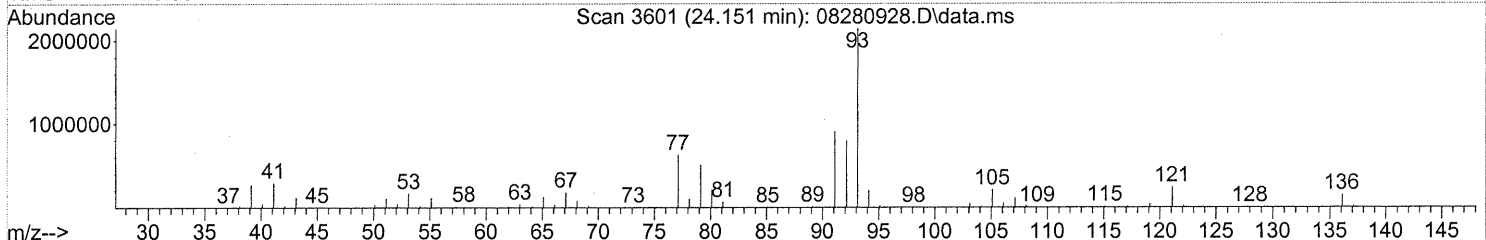
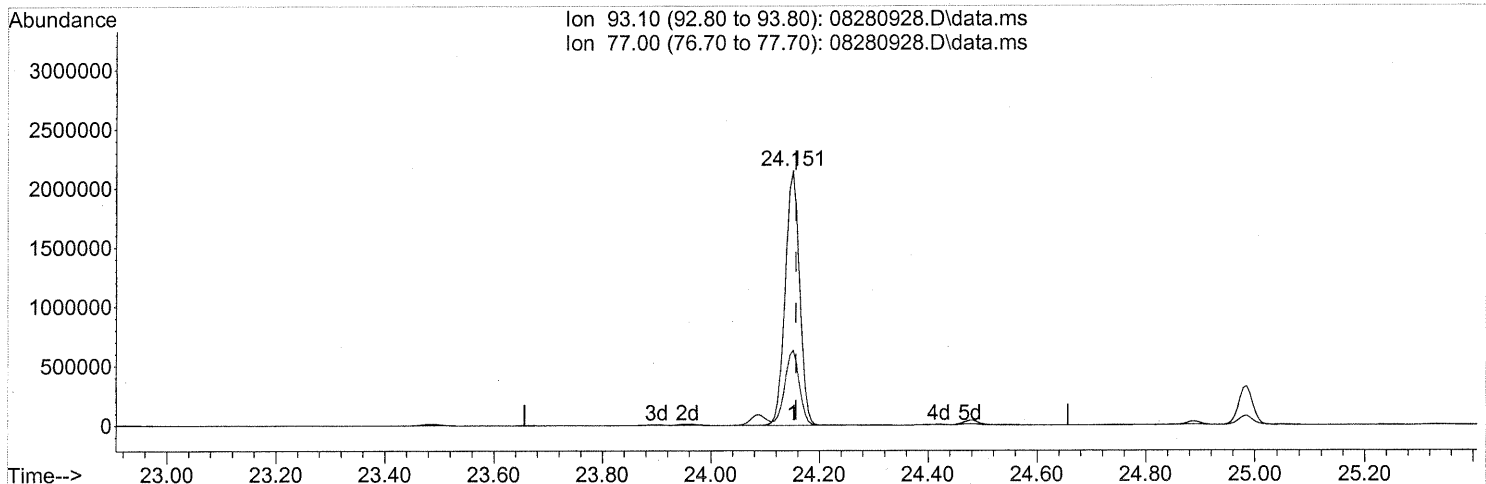
(71) n-Nonane (T)
 23.174min (-0.011) 0.60ng
 response 32201

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	83.50
85.10	38.80	30.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

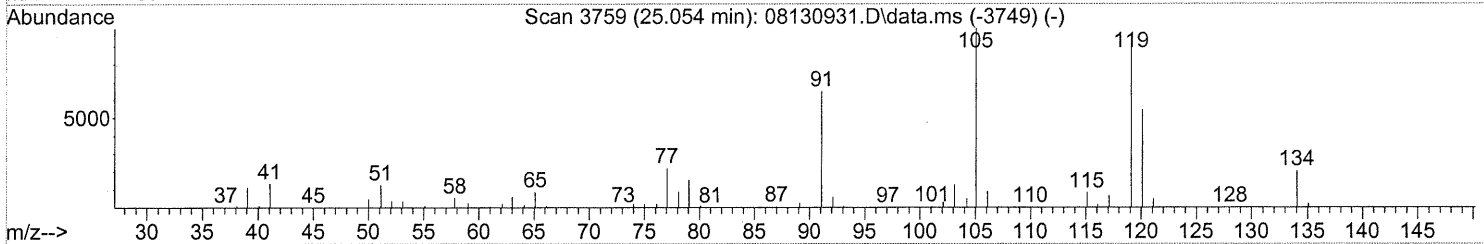
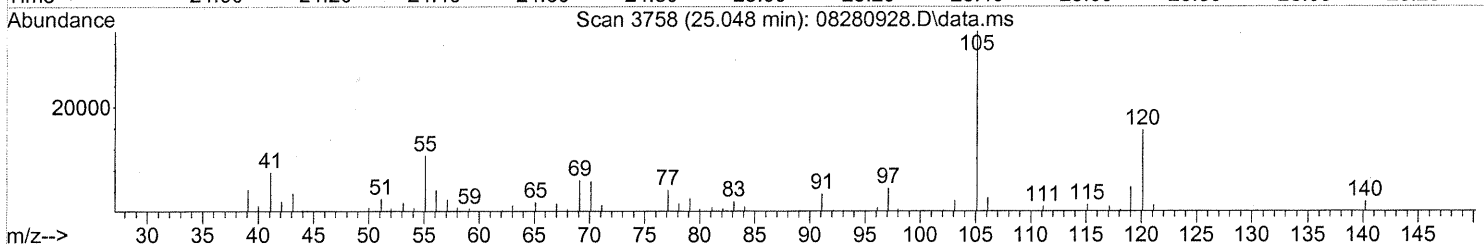
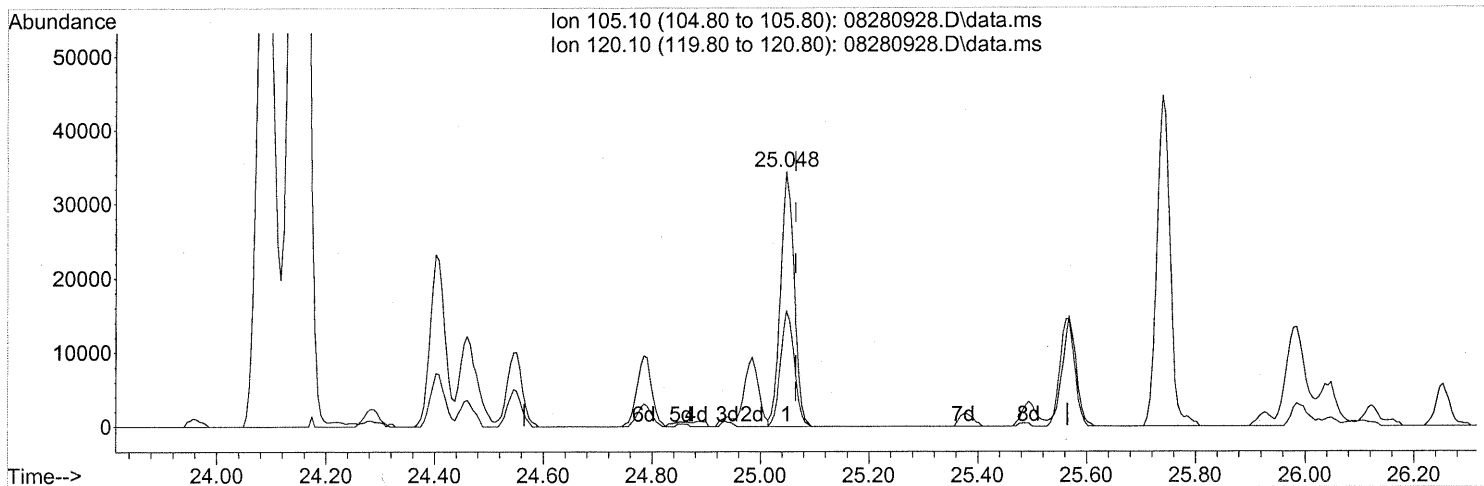
(75) alpha-Pinene (T)
 24.151min (-0.006) 69.72ng
 response 3942489

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08280928.D\data.ms

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

25.048min (-0.017) 0.63ng

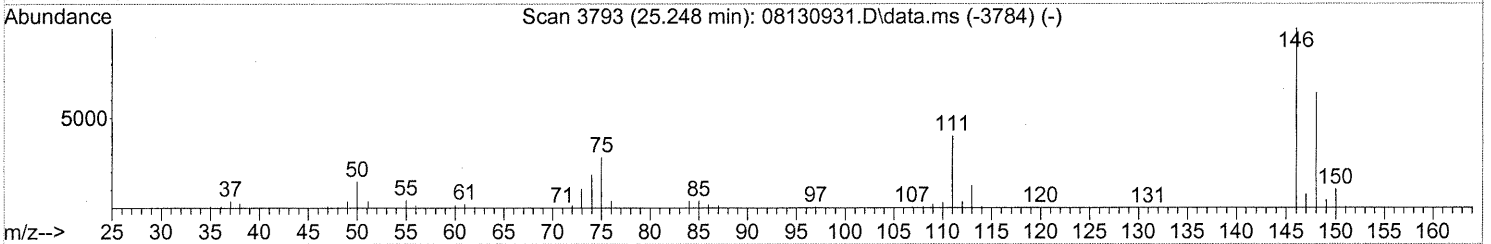
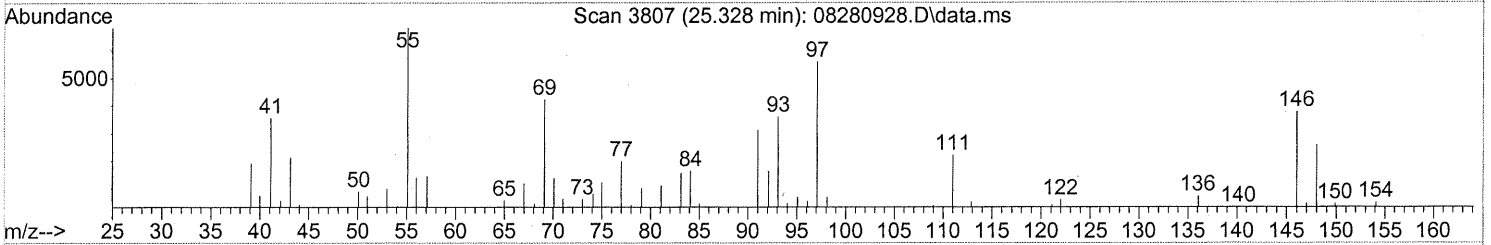
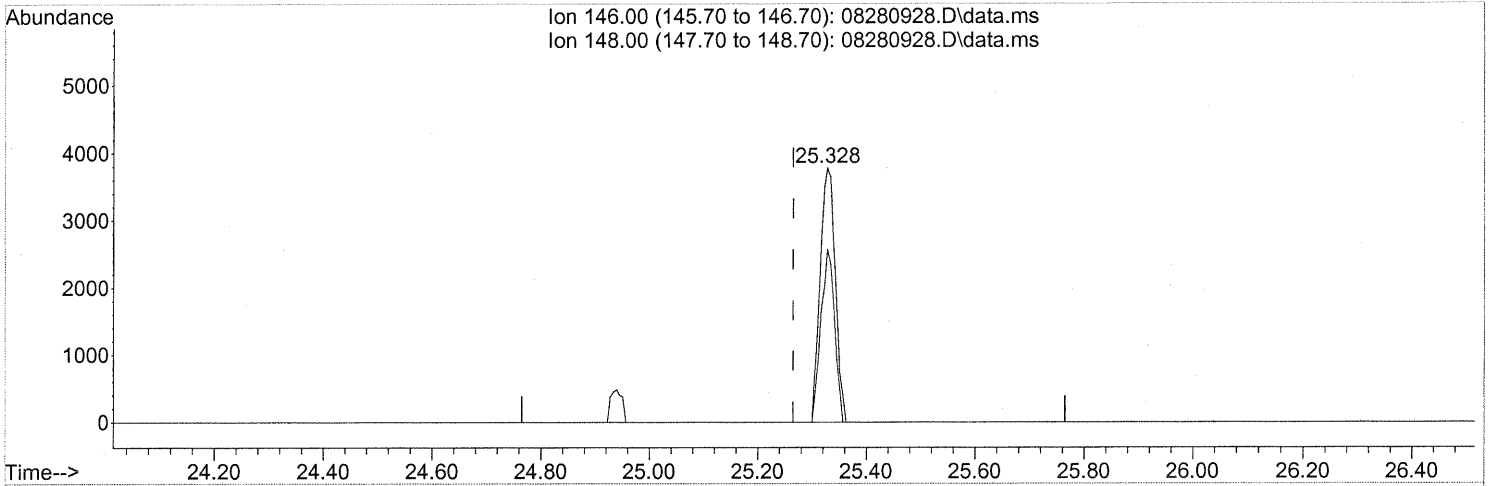
response 60070

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	45.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.328min (+0.063) 0.15ng

response 7339

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	61.13
0.00	0.00	0.00
0.00	0.00	0.00

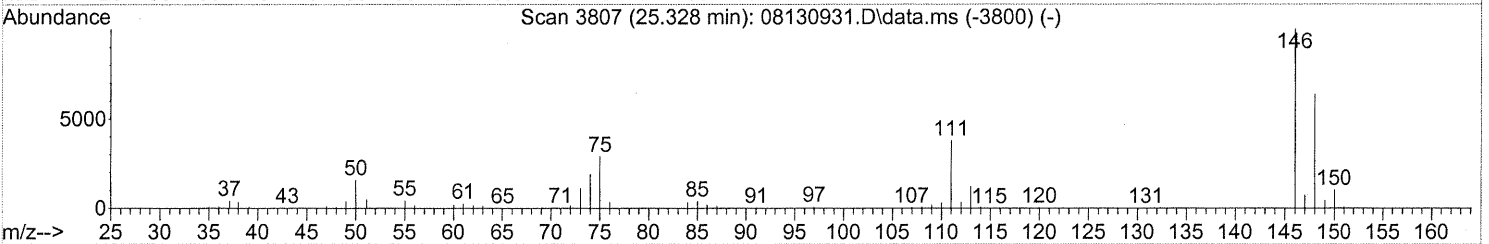
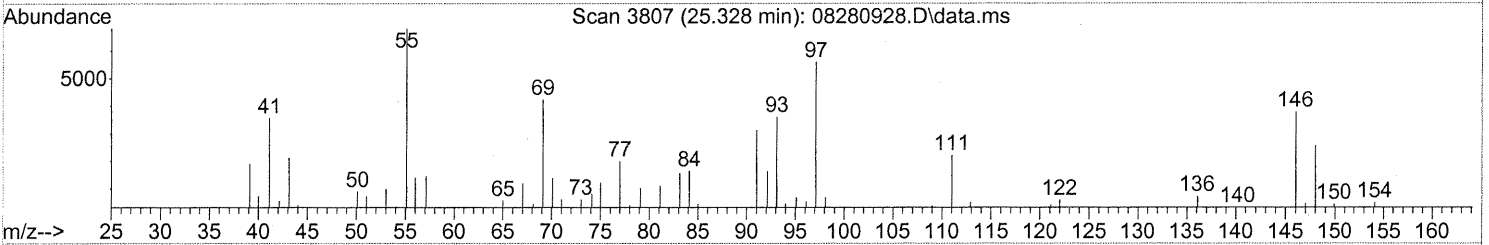
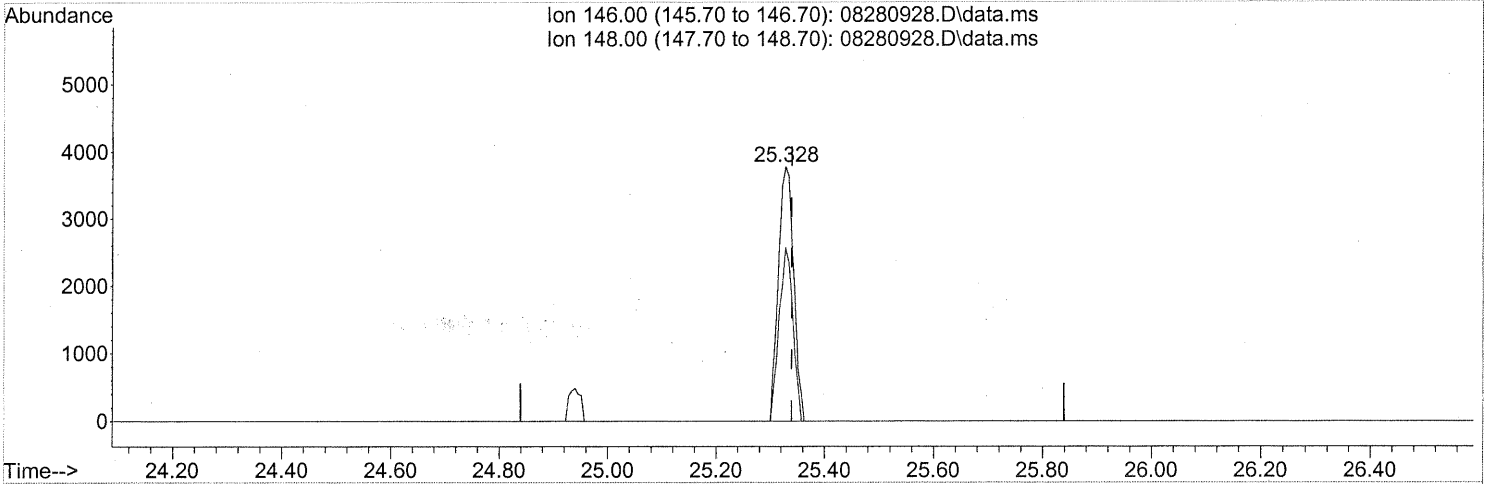
FP em 9/2/09

KE9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.14ng

response 7339

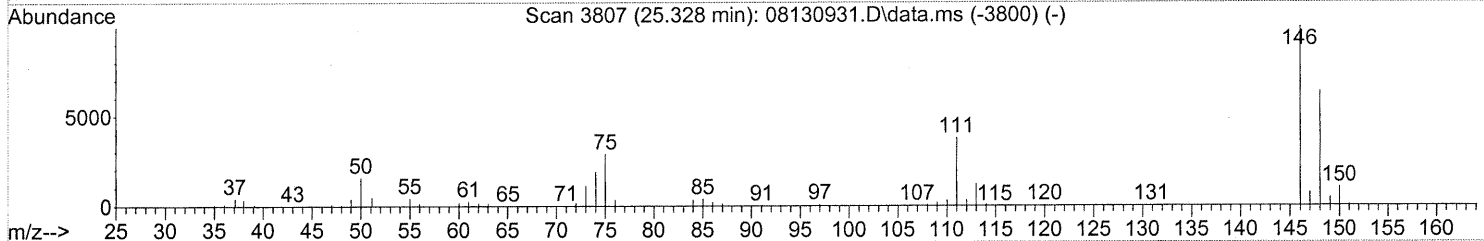
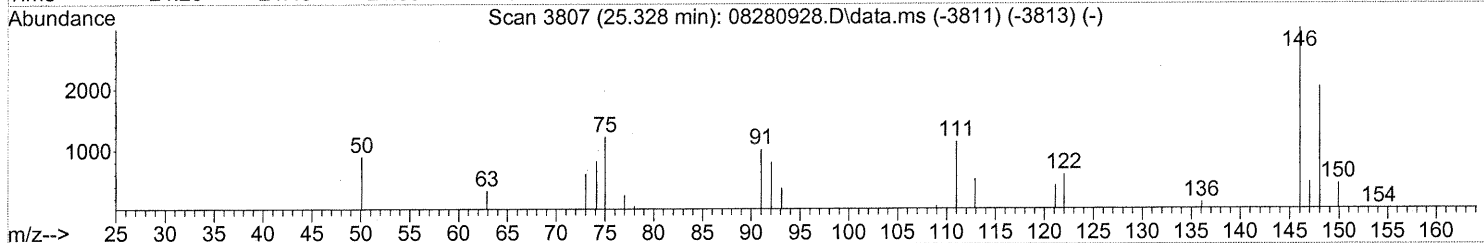
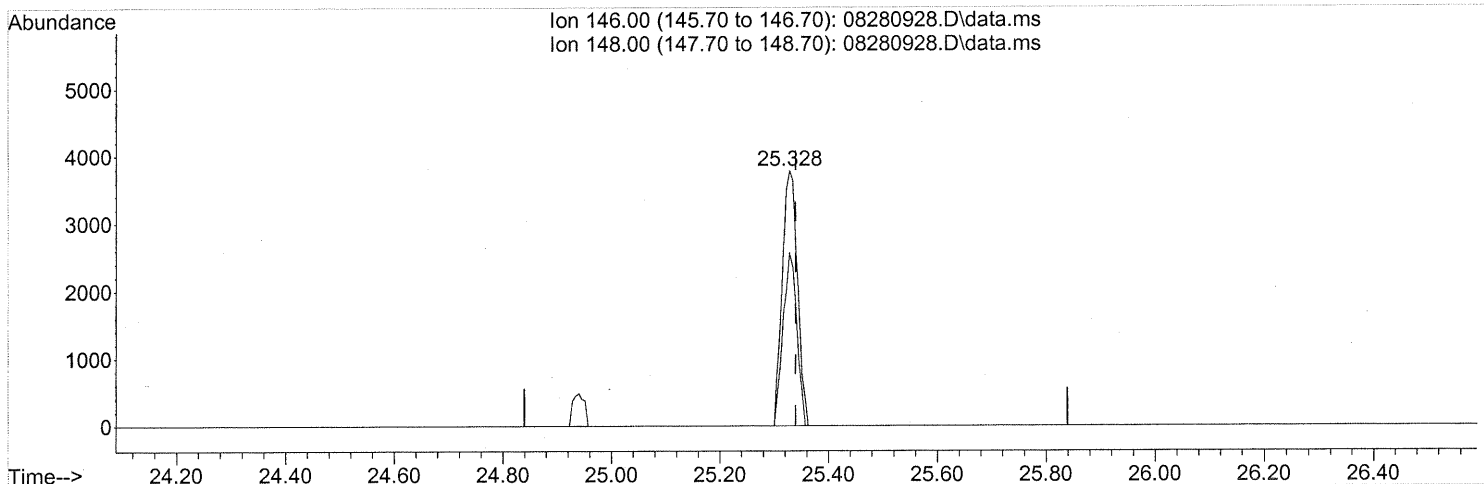
Before subtraction

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	61.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.328min (-0.011) 0.14ng

response 7339

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	61.13
0.00	0.00	0.00
0.00	0.00	0.00

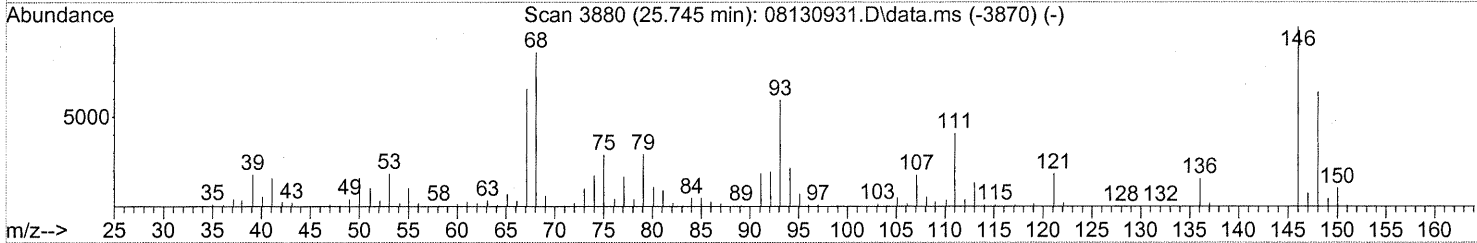
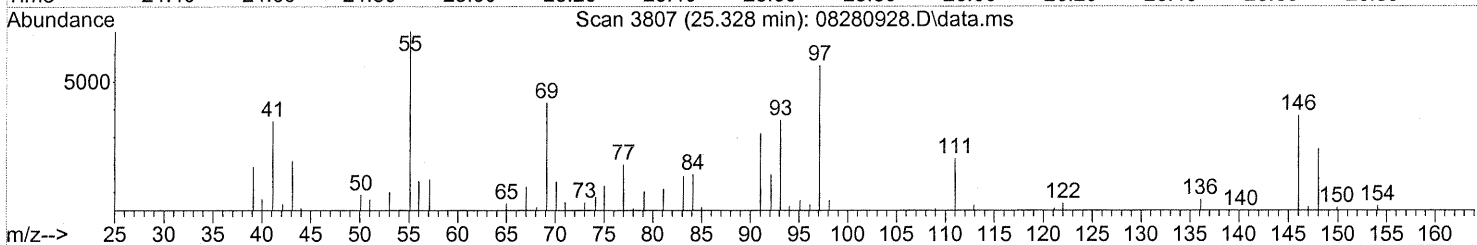
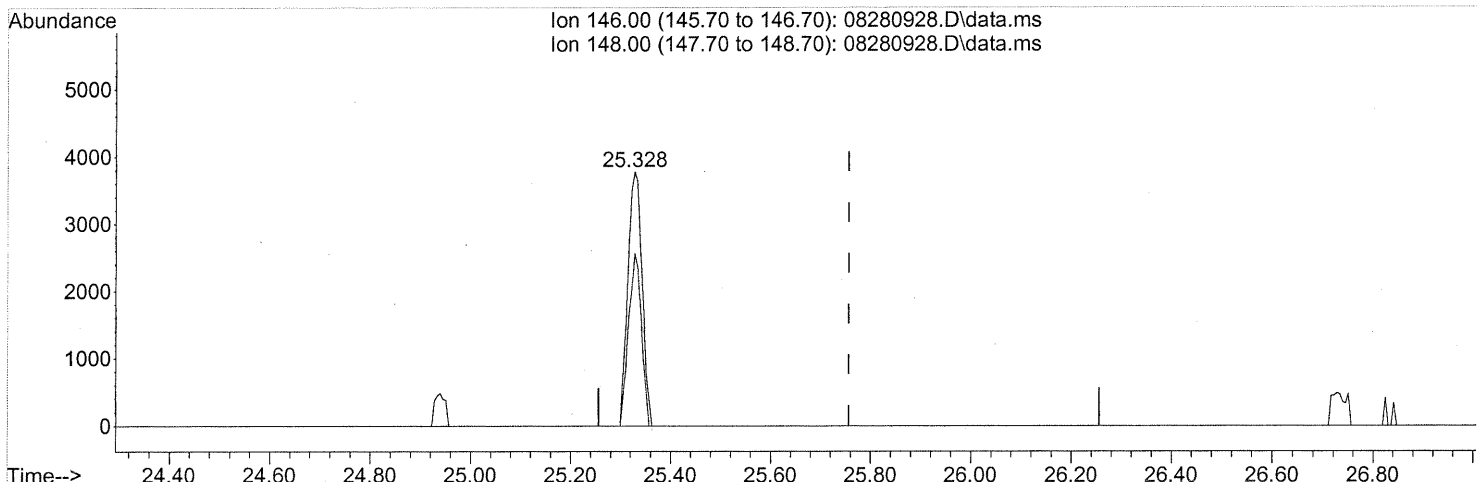
After subtraction

cem 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.328min (-0.428) 0.15ng

response 7339

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	61.13
0.00	0.00	0.00
0.00	0.00	0.00

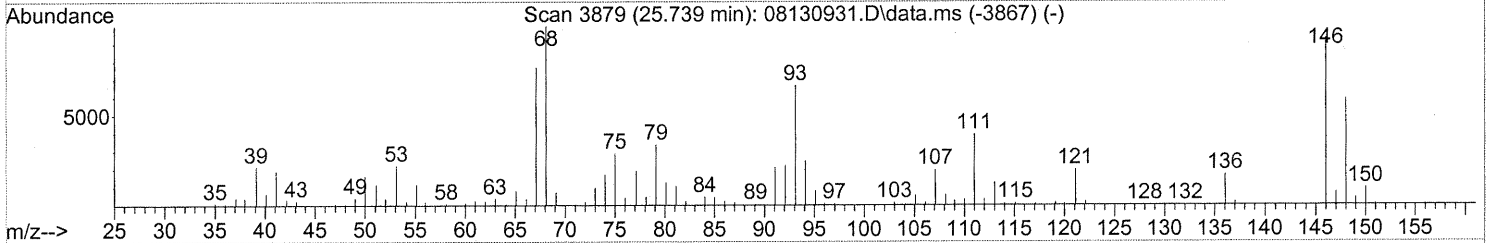
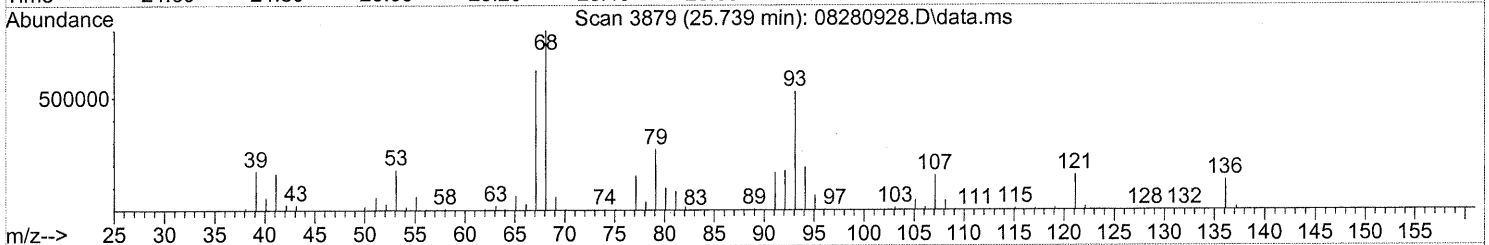
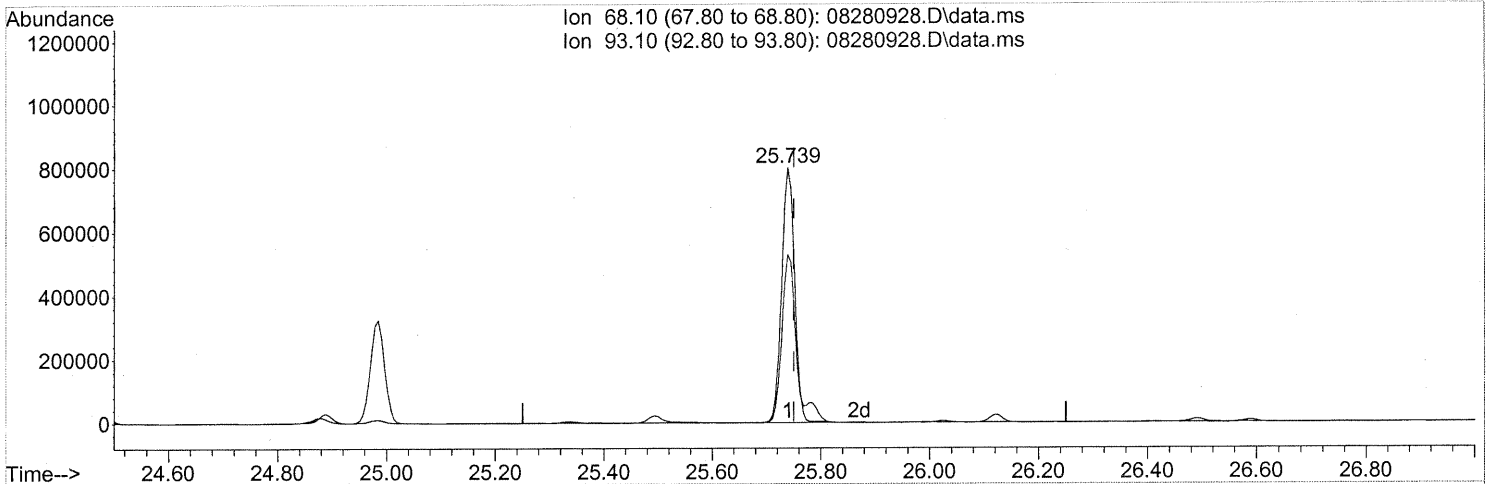
FP em 9/2/09

KE 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

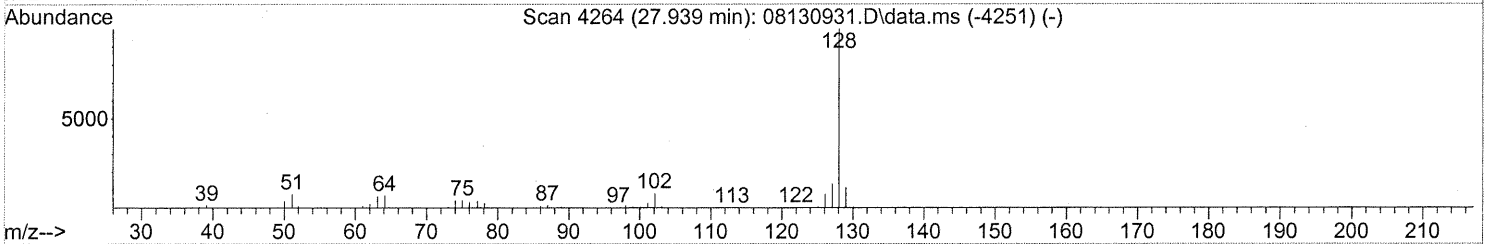
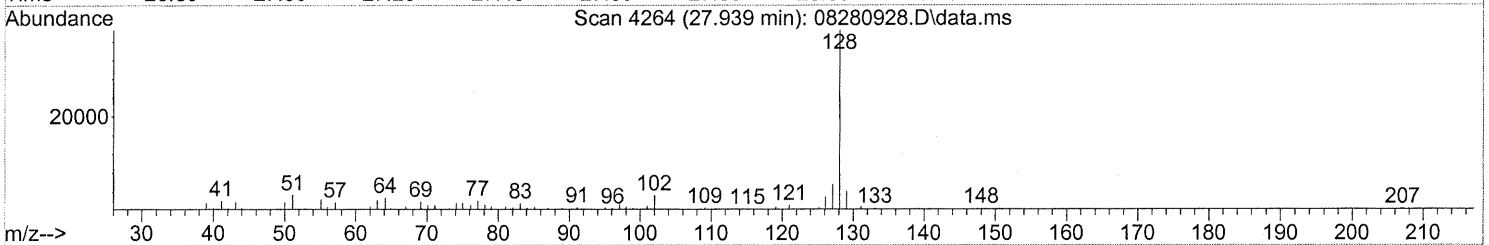
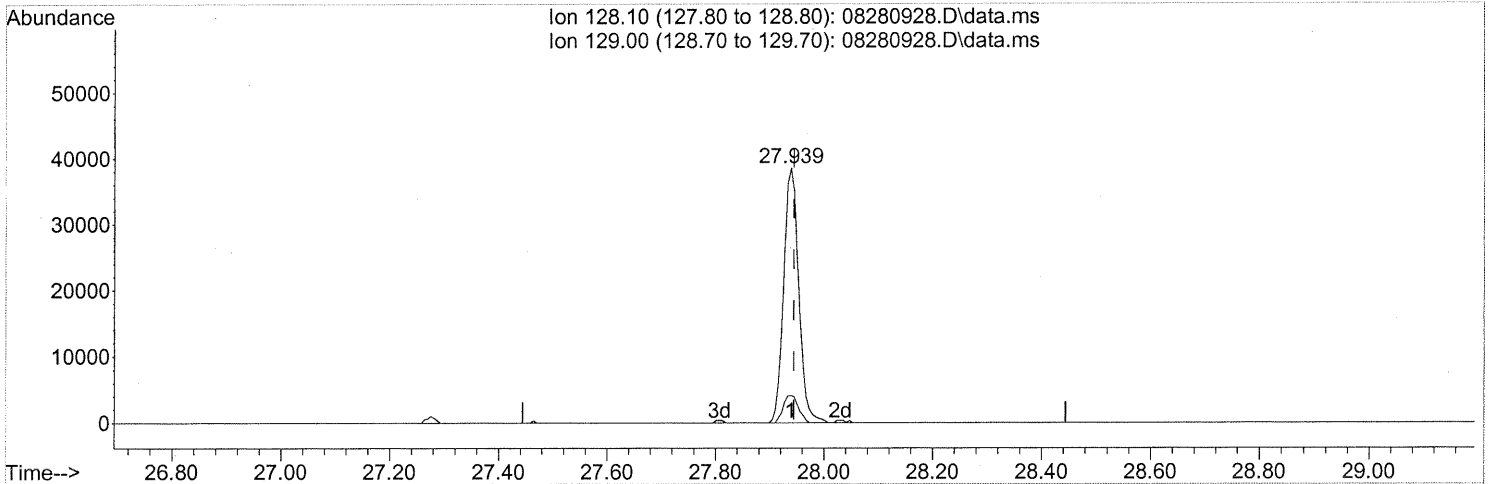
(91) d-Limonene (T)
 25.739min (-0.011) 34.25ng
 response 1327952

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	74.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280928.D
 Acq On : 29 Aug 2009 1:12
 Operator : EM
 Sample : P0902899-005 (1000ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:20 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280928.D\data.ms

(95) Naphthalene (T)

27.939min (-0.006) 0.58ng

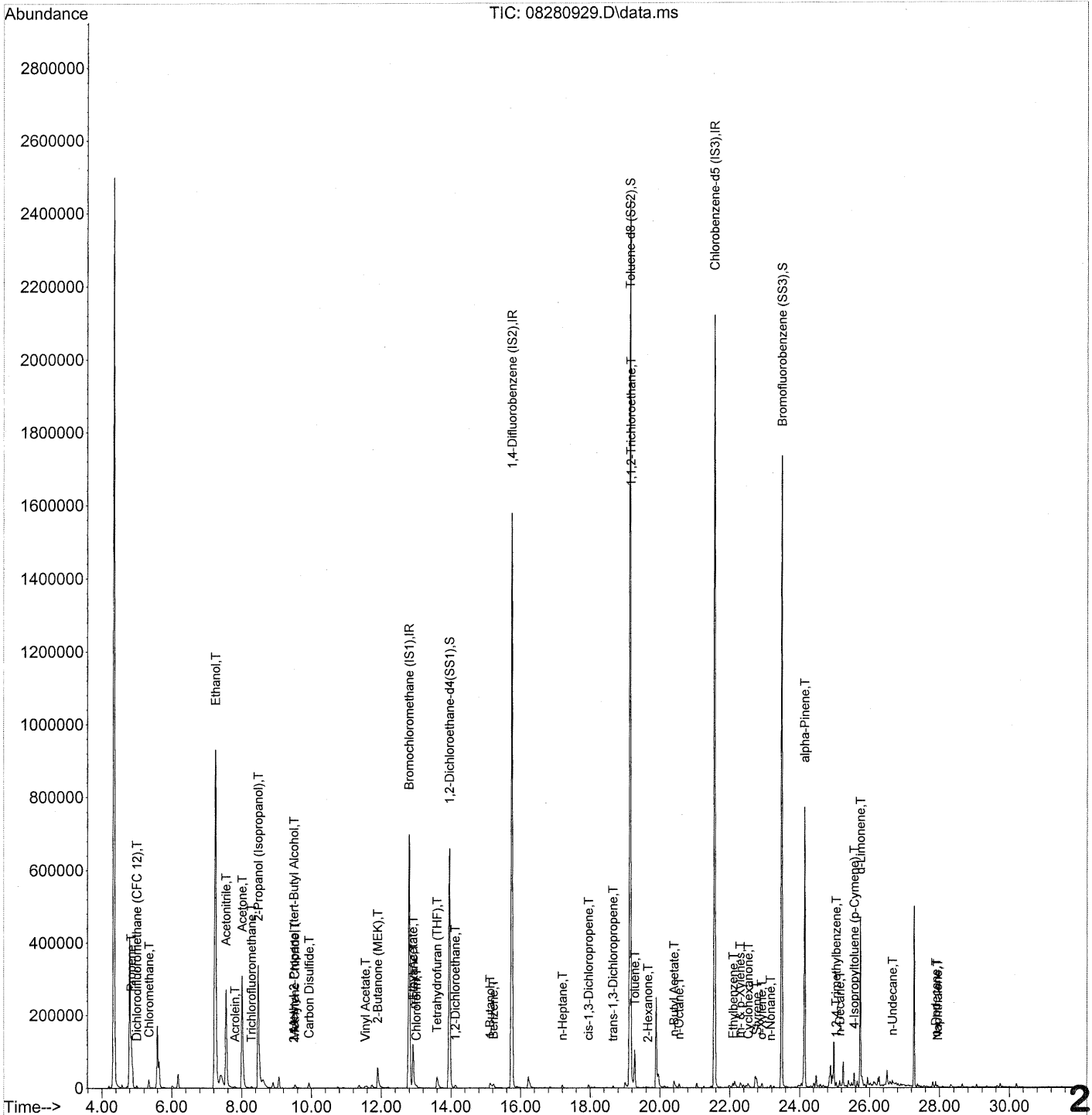
response 74252

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	10.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280929.D
 Acq On : 29 Aug 2009 1:54
 Operator : EM
 Sample : P0902899-005 dil (100ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 14:08:42 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280929.D
 Acq On : 29 Aug 2009 1:54
 Operator : EM
 Sample : P0902899-005 dil (100ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 14:08:42 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.79	130	363446	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1851409	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	908052	25.000	ng	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.95	65	653053	25.412	ng	-0.03
Spiked Amount	25.000		Recovery	=	101.64%	✓
57) Toluene-d8 (SS2)	19.14	98	2147281	24.874	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.48%	✓
73) Bromofluorobenzene (SS3)	23.49	174	606261	24.799	ng	0.00
Spiked Amount	25.000		Recovery	=	99.20%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	56499	1.772	ng	90
3) Dichlorodifluoromethan...	5.00	85	6812	0.150	ng	# 89
4) Chloromethane	5.36	50	4829	0.114	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.24	45	1860895m	93.051	ng	
11) Acetonitrile	7.55	41	424466	8.697	ng	98
12) Acrolein	7.81	56	4257	0.326	ng	99
13) Acetone	8.01	58	178439	8.768	ng	96
14) Trichlorofluoromethane	8.28	101	4975	0.128	ng	95
15) 2-Propanol (Isopropanol)	8.47	45	781074	14.015	ng	93
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.49	59	7103	0.126	ng	# 69
19) Methylene Chloride	9.52	84	1779	0.070	ng	91
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.93	76	29059	0.324	ng	96
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.54	86	1743	0.395	ng	# 55
27) 2-Butanone (MEK)	11.90	72	27782	1.958	ng	# 69
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.91	61	28250	3.071	ng	94
31) n-Hexane	12.92	57	2614	0.058	ng	# 6

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em 9/2/09

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280929.D
 Acq On : 29 Aug 2009 1:54
 Operator : EM
 Sample : P0902899-005 dil (100ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 14:08:42 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	3575	0.095	ng	92
34) Tetrahydrofuran (THF)	13.60	72	12931	0.877	ng #	67
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	9183	0.320	ng	97
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	15.12	61	122	N.D.		
40) 1-Butanol	15.13	56	20813	0.868	ng	79
41) Benzene	15.22	78	10405	0.105	ng	94
42) Carbon Tetrachloride	15.45	117	1215	N.D.		
43) Cyclohexane	15.66	84	1000	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	2737	N.D.		
50) Methyl Methacrylate	17.21	100	126	N.D.		
51) n-Heptane	17.20	71	2268	0.086	ng #	81
52) cis-1,3-Dichloropropene	17.96	75	8402	0.228	ng	92
53) 4-Methyl-2-pentanone	18.04	58	127	N.D.		
54) trans-1,3-Dichloropropene	18.66	75	5237	0.163	ng	84
55) 1,1,2-Trichloroethane	19.16	97	164547	7.735	ng #	8
58) Toluene	19.28	91	96325	0.920	ng	98
59) 2-Hexanone	19.66	43	2999	0.055	ng #	22
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.41	43	23888	0.403	ng	94
63) n-Octane	20.55	57	2343	0.100	ng #	72
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.10	91	12890	0.114	ng	98
67) m- & p-Xylenes	22.30	91	14978	0.167	ng	97
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.78	104	11077	0.167	ng	97
70) o-Xylene	22.92	91	6119	0.068	ng	93
71) n-Nonane	23.17	43	3743	0.069	ng #	72
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.65	105	706	N.D.		
75) alpha-Pinene	24.15	93	362641	6.291	ng	93
76) n-Propylbenzene	24.29	91	2054	N.D.		
77) 3-Ethyltoluene	24.41	105	4635	N.D.		
78) 4-Ethyltoluene	24.47	105	3062	N.D.		
79) 1,3,5-Trimethylbenzene	24.55	105	1952	N.D.		

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280929.D
 Acq On : 29 Aug 2009 1:54
 Operator : EM
 Sample : P0902899-005 dil (100ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 01 14:08:42 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

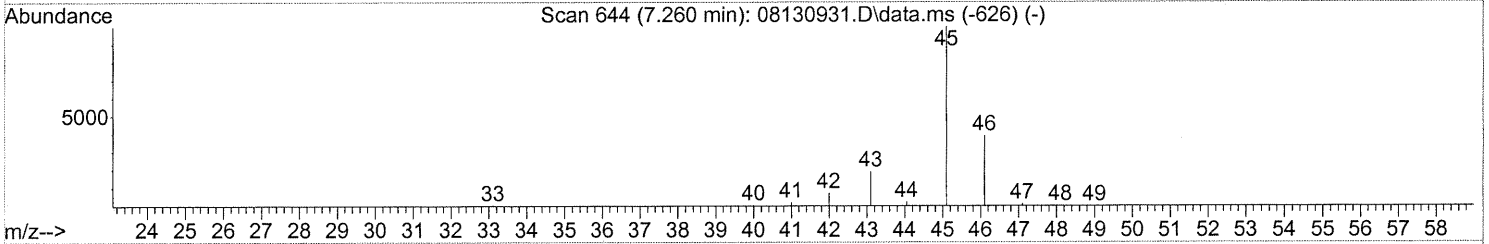
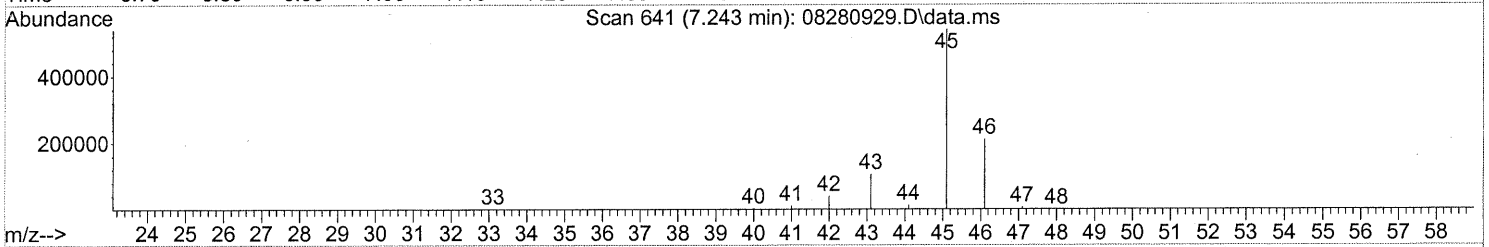
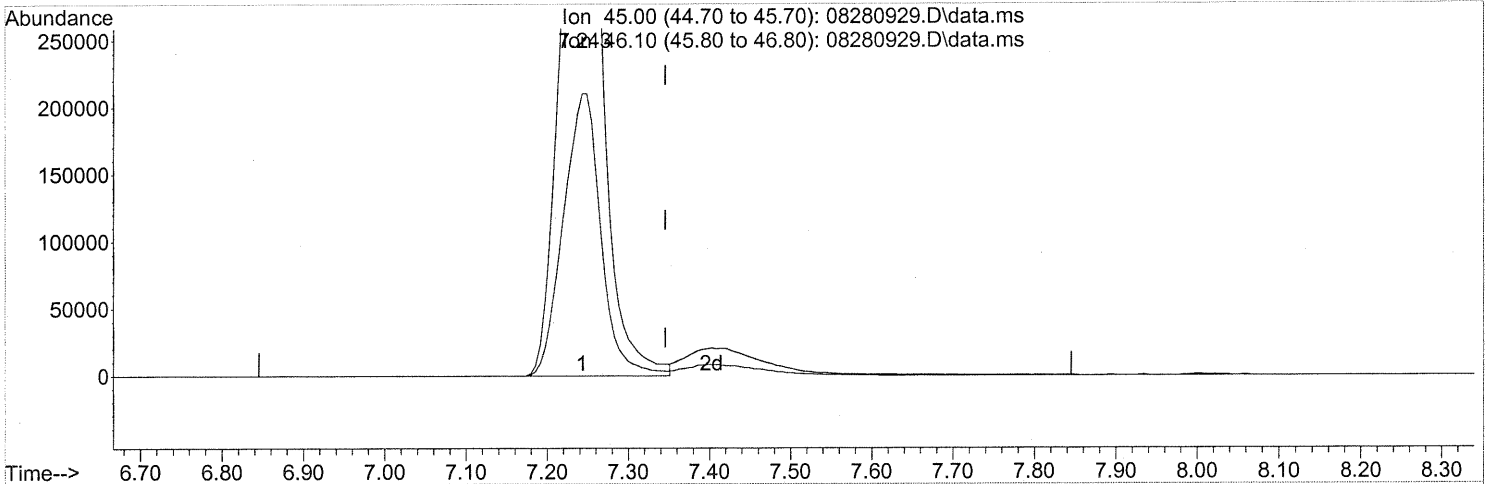
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.93	118	356	N.D.		
81) 2-Ethyltoluene	24.79	105	1755	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	6150	0.064	ng	87
83) n-Decane	25.15	57	8547	0.152	ng	91
84) Benzyl Chloride	25.33	91	516	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	579	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	579	N.D.		
87) sec-Butylbenzene	25.49	105	257	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	19552	0.160	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2588	N.D.		
90) 1,2-Dichlorobenzene	25.33	146	579	N.D.		
91) d-Limonene	25.74	68	127012	3.214	ng	98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	5483	0.094	ng	# 66
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	7261	0.056	ng	76
96) n-Dodecane	27.89	57	5449	0.084	ng	89
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.53	55	5766	0.175	ng	# 88
99) tert-Butylbenzene	25.05	119	611	N.D.		
100) n-Butylbenzene	26.12	91	2547	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280929.D
 Acq On : 29 Aug 2009 1:54
 Operator : EM
 Sample : P0902899-005 dil (100ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280929.D\data.ms

(10) Ethanol (T)

7.243min (-0.103) 86.04ng

response 1720736

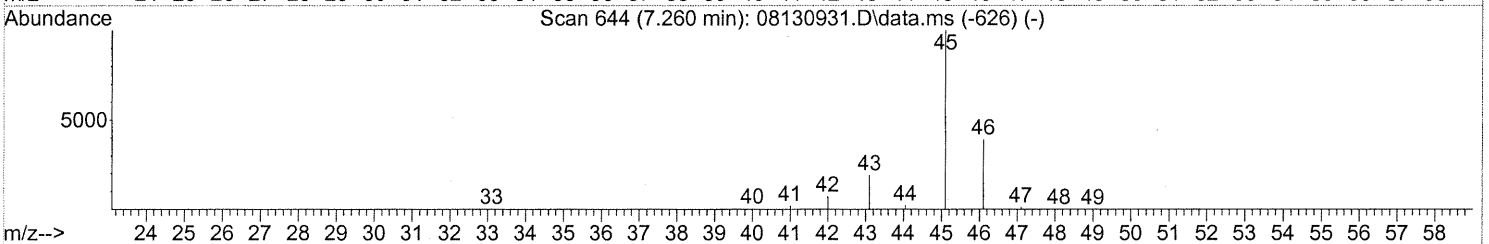
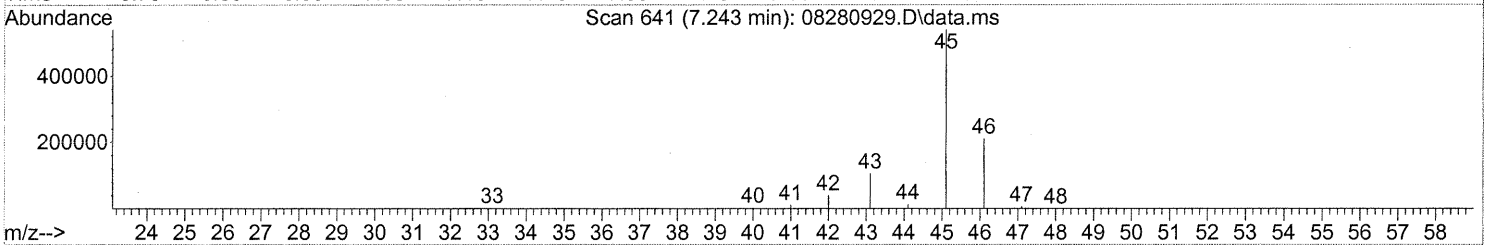
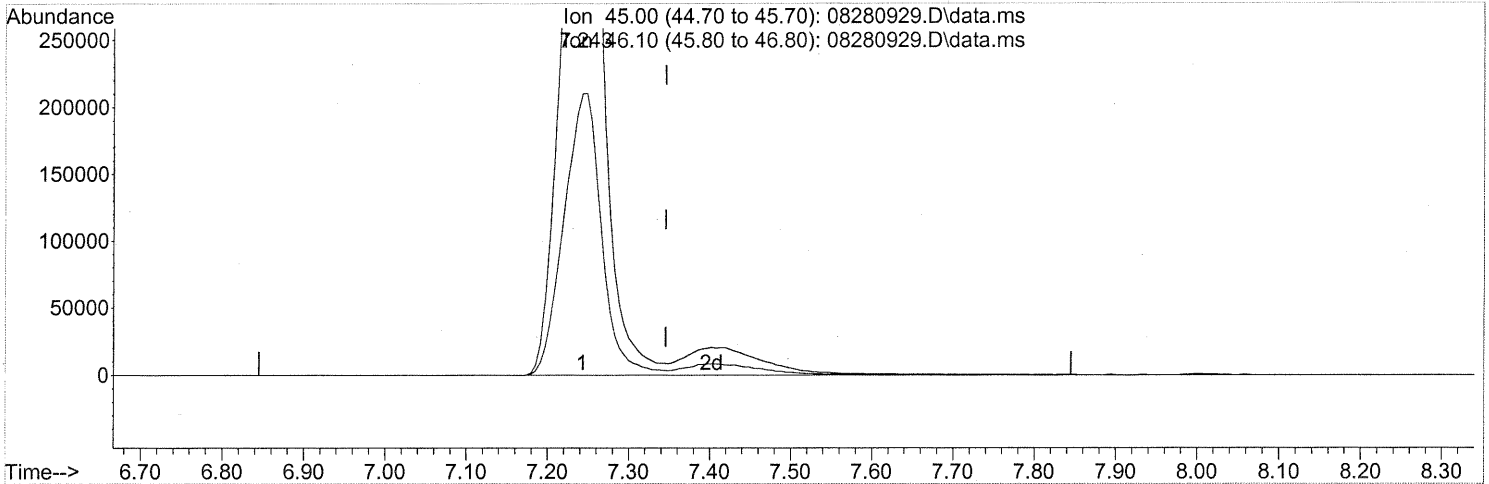
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.16
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280929.D
 Acq On : 29 Aug 2009 1:54
 Operator : EM
 Sample : P0902899-005 dil (100ml)
 Misc : Env. H & E 102519
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 08:08:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280929.D\data.ms

(10) Ethanol (T)

7.243min (-0.103) 93.05ng m

response 1860895

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.21
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

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K29/2/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102520
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01328

CAS Project ID: P0902899
 CAS Sample ID: P0902899-006

Date Collected: 8/19/09
 Date Received: 8/21/09
 Date Analyzed: 8/28/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

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

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

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

Verified By: RL Date: 9/2/09 **263**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102520
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01328

CAS Project ID: P0902899
CAS Sample ID: P0902899-006

Date Collected: 8/19/09
Date Received: 8/21/09
Date Analyzed: 8/28/09
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	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

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

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

Verified By: Re

Date: 9/10/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102520
Client Project ID: 16512

CAS Project ID: P0902899
 CAS Sample ID: P0902899-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01328

Date Collected: 8/19/09
 Date Received: 8/21/09
 Date Analyzed: 8/28/09
 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	

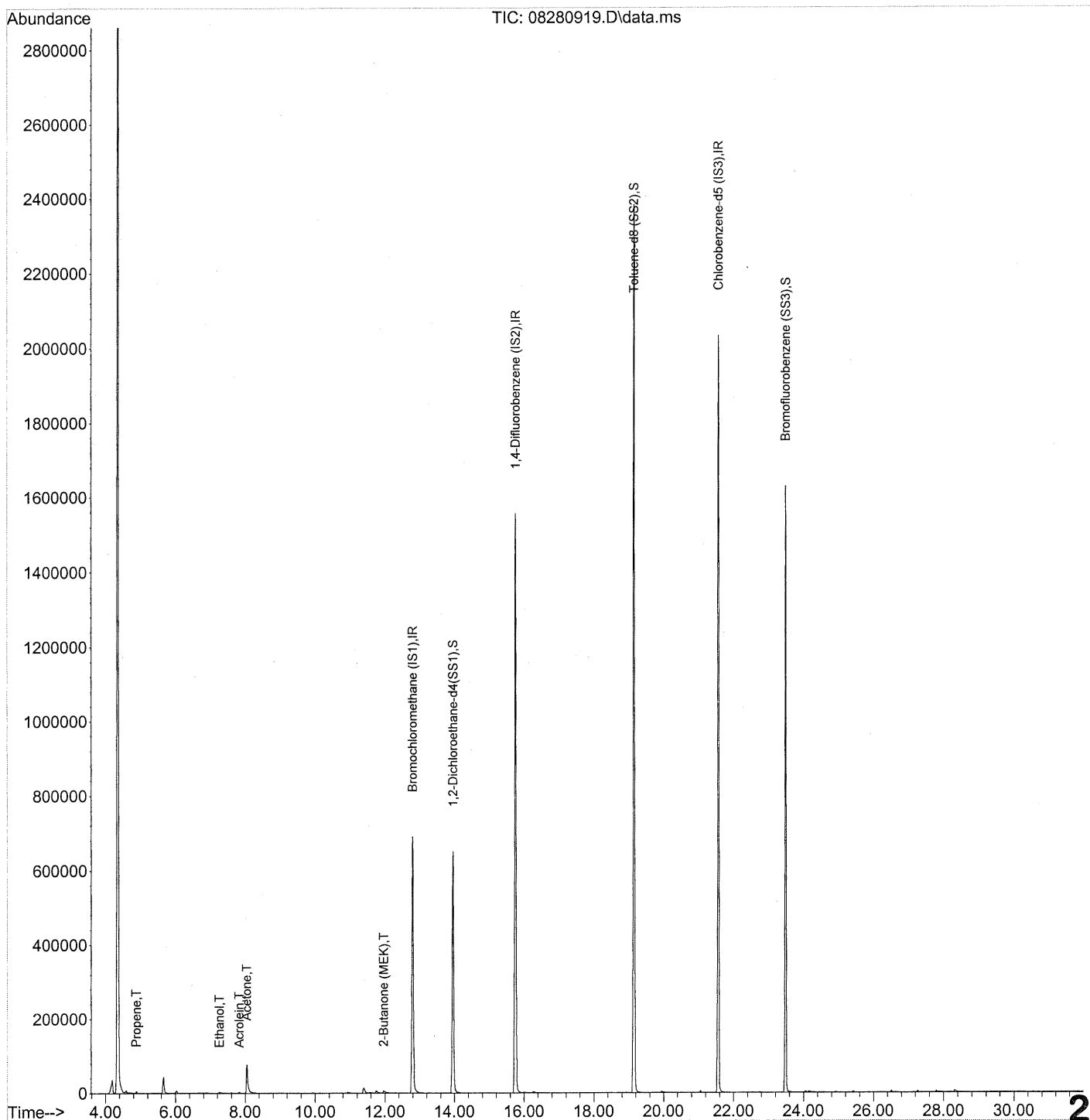
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: RC Date: 9/2/09 **265**

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280919.D
 Acq On : 28 Aug 2009 18:56
 Operator : EM
 Sample : P0902899-006 (1000ml)
 Misc : Env. H & E 102520
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 14:09:55 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280919.D
 Acq On : 28 Aug 2009 18:56
 Operator : EM
 Sample : P0902899-006 (1000ml) ✓
 Misc : Env. H & E 102520
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 14:09:55 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	358600	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1821682	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	875489	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	651260	25.685	ng	-0.03 ✓
Spiked Amount	25.000			Recovery =	102.72%	
57) Toluene-d8 (SS2)	19.14	98	2102513	25.262	ng	-0.02 ✓
Spiked Amount	25.000			Recovery =	101.04%	
73) Bromofluorobenzene (SS3)	23.48	174	561635	23.828	ng	-0.01 ✓
Spiked Amount	25.000			Recovery =	95.32%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.88	42	2000	0.064	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	7.26	45	6918	0.351	ng	71
11) Acetonitrile	7.60	41	2228	N.D.		
12) Acrolein	7.83	56	4232	0.329	ng	98
13) Acetone	8.04	58	58184	2.898	ng	# 70
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	0.00	45	0	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	9.53	84	592	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.94	76	1939	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)	11.97	72	3656	0.261	ng	# 1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

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em 9/2/09

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280919.D
 Acq On : 28 Aug 2009 18:56
 Operator : EM
 Sample : P0902899-006 (1000ml)
 Misc : Env. H & E 102520
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 14:09:55 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0		N.D.	
34) Tetrahydrofuran (THF)	0.00	72	0		N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0		N.D.	
36) 1,2-Dichloroethane	0.00	62	0		N.D.	
38) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
39) Isopropyl Acetate	0.00	61	0		N.D.	
40) 1-Butanol	0.00	56	0		N.D.	
41) Benzene	15.23	78	1195		N.D.	
42) Carbon Tetrachloride	0.00	117	0		N.D.	
43) Cyclohexane	15.73	84	845		N.D.	
44) tert-Amyl Methyl Ether	0.00	73	0		N.D.	
45) 1,2-Dichloropropane	0.00	63	0		N.D.	
46) Bromodichloromethane	0.00	83	0		N.D.	
47) Trichloroethene	0.00	130	0		N.D.	
48) 1,4-Dioxane	0.00	88	0		N.D.	
49) 2,2,4-Trimethylpentane...	0.00	57	0		N.D.	
50) Methyl Methacrylate	0.00	100	0		N.D.	
51) n-Heptane	0.00	71	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	58	0		N.D.	
54) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
55) 1,1,2-Trichloroethane	0.00	97	0		N.D.	d
58) Toluene	19.28	91	272		N.D.	
59) 2-Hexanone	19.54	43	123		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	0.00	91	0		N.D.	
67) m- & p-Xylenes	0.00	91	0		N.D.	
68) Bromoform	0.00	173	0		N.D.	
69) Styrene	0.00	104	0		N.D.	
70) o-Xylene	0.00	91	0		N.D.	
71) n-Nonane	22.76	43	479		N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
74) Cumene	23.48	105	861		N.D.	
75) alpha-Pinene	0.00	93	0		N.D.	
76) n-Propylbenzene	0.00	91	0		N.D.	
77) 3-Ethyltoluene	24.43	105	227		N.D.	
78) 4-Ethyltoluene	24.47	105	113		N.D.	
79) 1,3,5-Trimethylbenzene	24.56	105	135		N.D.	

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280919.D
 Acq On : 28 Aug 2009 18:56
 Operator : EM
 Sample : P0902899-006 (1000ml)
 Misc : Env. H & E 102520
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 14:09:55 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

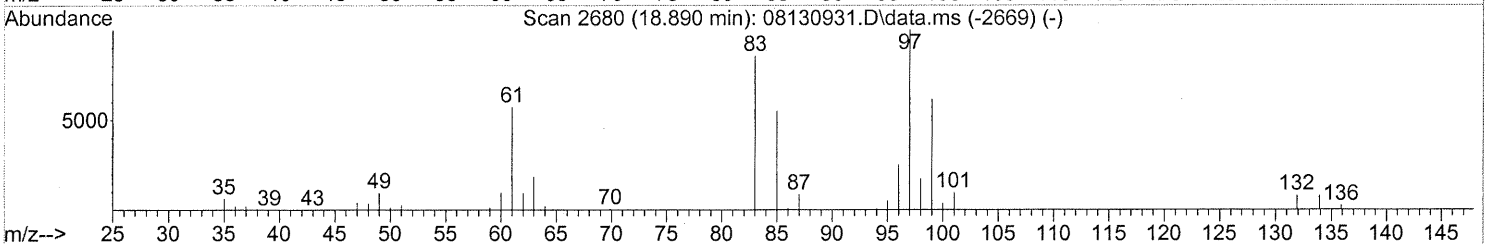
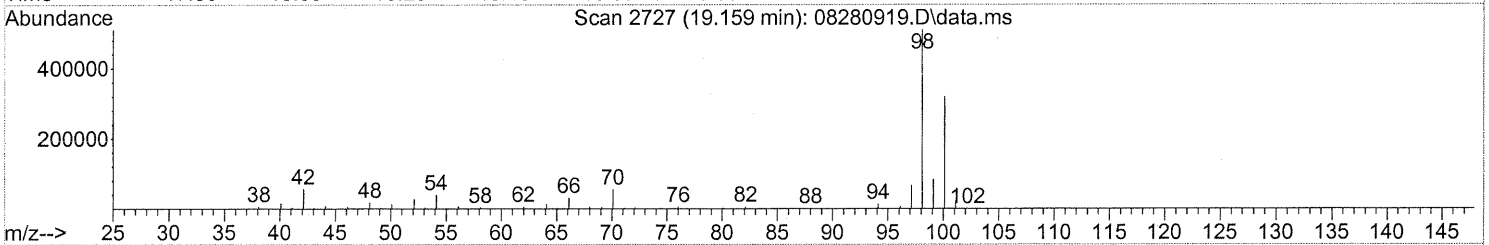
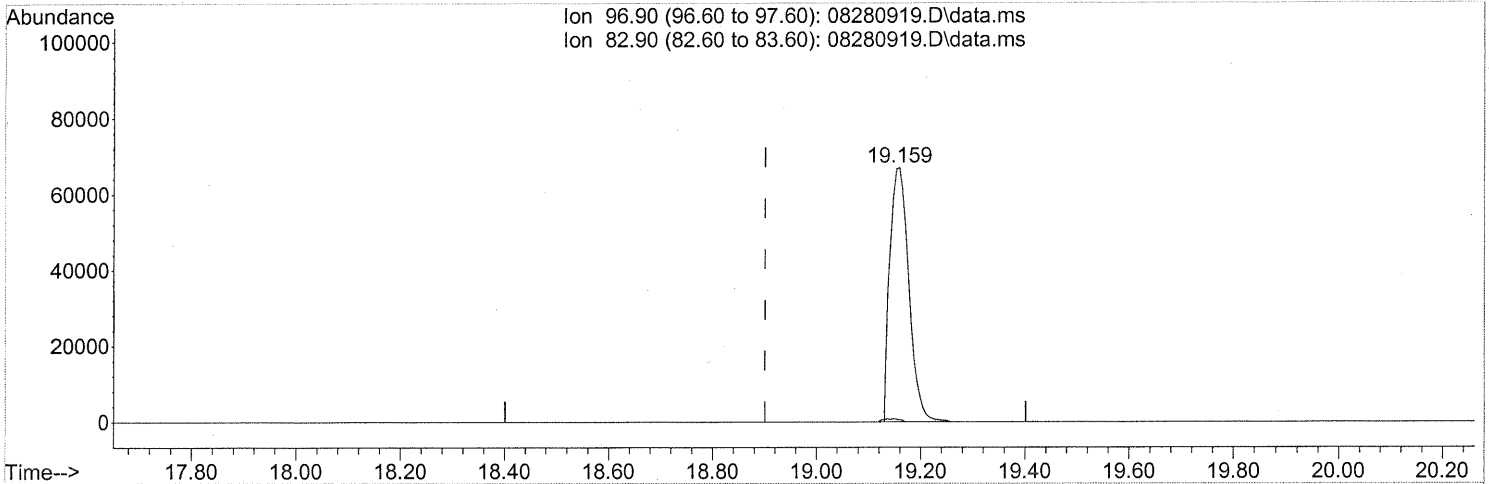
Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	0.00	118	0		N.D.	
81) 2-Ethyltoluene	24.56	105	135		N.D.	
82) 1,2,4-Trimethylbenzene	25.05	105	118		N.D.	
83) n-Decane	25.41	57	2512		N.D.	
84) Benzyl Chloride	0.00	91	0		N.D.	
85) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
86) 1,4-Dichlorobenzene	0.00	146	0		N.D.	
87) sec-Butylbenzene	25.05	105	118		N.D.	
88) 4-Isopropyltoluene (p-...	0.00	119	0		N.D.	
89) 1,2,3-Trimethylbenzene	0.00	105	0		N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) d-Limonene	0.00	68	0		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.66	57	104		N.D.	
94) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
95) Naphthalene	27.96	128	1694		N.D.	
96) n-Dodecane	27.90	57	401		N.D.	
97) Hexachlorobutadiene	0.00	225	0		N.D.	
98) Cyclohexanone	22.56	55	407		N.D.	
99) tert-Butylbenzene	0.00	119	0		N.D.	
100) n-Butylbenzene	0.00	91	0		N.D.	

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280919.D
 Acq On : 28 Aug 2009 18:56
 Operator : EM
 Sample : P0902899-006 (1000ml)
 Misc : Env. H & E 102520
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 31 08:07:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280919.D\data.ms

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

19.159min (+0.257) 8.07ng

response 169006

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

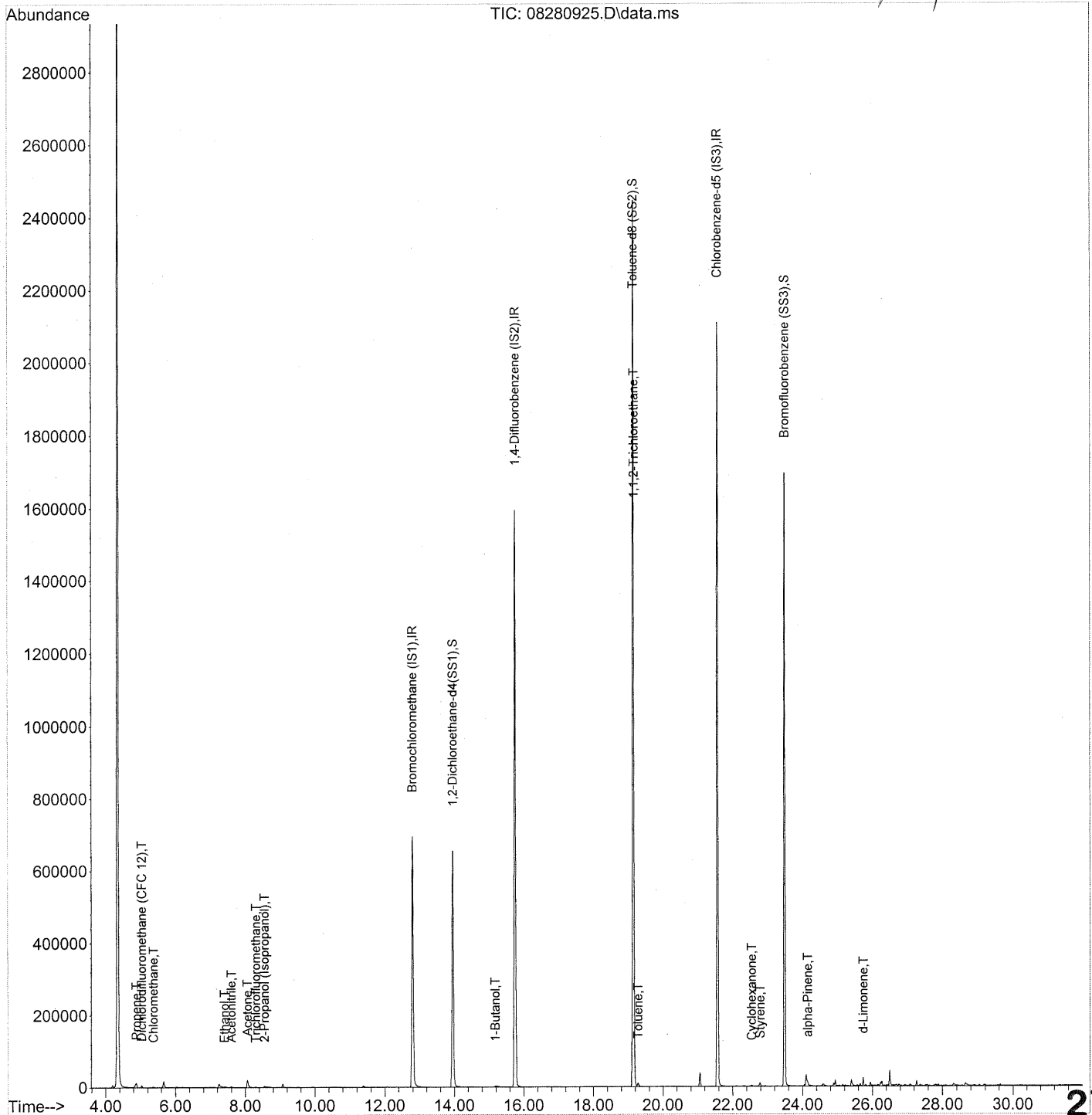
FP em 9/2/09

KE 9/2/09

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280925.D
 Acq On : 28 Aug 2009 23:06
 Operator : EM
 Sample : P0902899-003 dil (100ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Case, File



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280925.D
 Acq On : 28 Aug 2009 23:06
 Operator : EM
 Sample : P0902899-003 dil (100ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	360324	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1854687	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	909086	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	655474	25.727	ng	-0.03
Spiked Amount	25.000		Recovery	=	102.92%	
57) Toluene-d8 (SS2)	19.14	98	2145511	24.826	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.32%	
73) Bromofluorobenzene (SS3)	23.49	174	596398	24.367	ng	0.00
Spiked Amount	25.000		Recovery	=	97.48%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.88	42	2753	0.087	ng	93
3) Dichlorodifluoromethan...	5.03	85	6205	0.138	ng	# 93
4) Chloromethane	5.37	50	2696	0.064	ng	70
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	7.40	45	6274	0.316	ng	89
11) Acetonitrile	7.60	41	4342	0.090	ng	# 1
12) Acrolein	7.84	56	216	N.D.		
13) Acetone	8.06	58	13520	0.670	ng	# 80
14) Trichlorofluoromethane	8.30	101	2277	0.059	ng	90
15) 2-Propanol (Isopropanol)	8.55	45	15819	0.286	ng	78
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	9.53	84	615	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.94	76	2306	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280925.D
 Acq On : 28 Aug 2009 23:06
 Operator : EM
 Sample : P0902899-003 dil (100ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.18	56	6851	0.285	ng	82
41) Benzene	15.24	78	1293	N.D.		
42) Carbon Tetrachloride	15.45	117	104	N.D.		
43) Cyclohexane	15.73	84	846	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...	16.87	57	105	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.16	97	174134	8.172	ng	# 8
58) Toluene	19.28	91	10338	0.099	ng	94
59) 2-Hexanone	19.28	43	116	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	1615	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.11	91	1727	N.D.		
67) m- & p-Xylenes	22.31	91	2770	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.79	104	7326	0.111	ng	94
70) o-Xylene	22.93	91	955	N.D.		
71) n-Nonane	23.17	43	226	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.49	105	543	N.D.		
75) alpha-Pinene	24.15	93	3133	0.054	ng	# 45
76) n-Propylbenzene	24.15	91	1246	N.D.		
77) 3-Ethyltoluene	24.42	105	1146	N.D.		
78) 4-Ethyltoluene	24.47	105	345	N.D.		
79) 1,3,5-Trimethylbenzene	24.56	105	111	N.D.		

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280925.D
 Acq On : 28 Aug 2009 23:06
 Operator : EM
 Sample : P0902899-003 dil (100ml)
 Misc : Env. H & E 102517
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 08:08:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

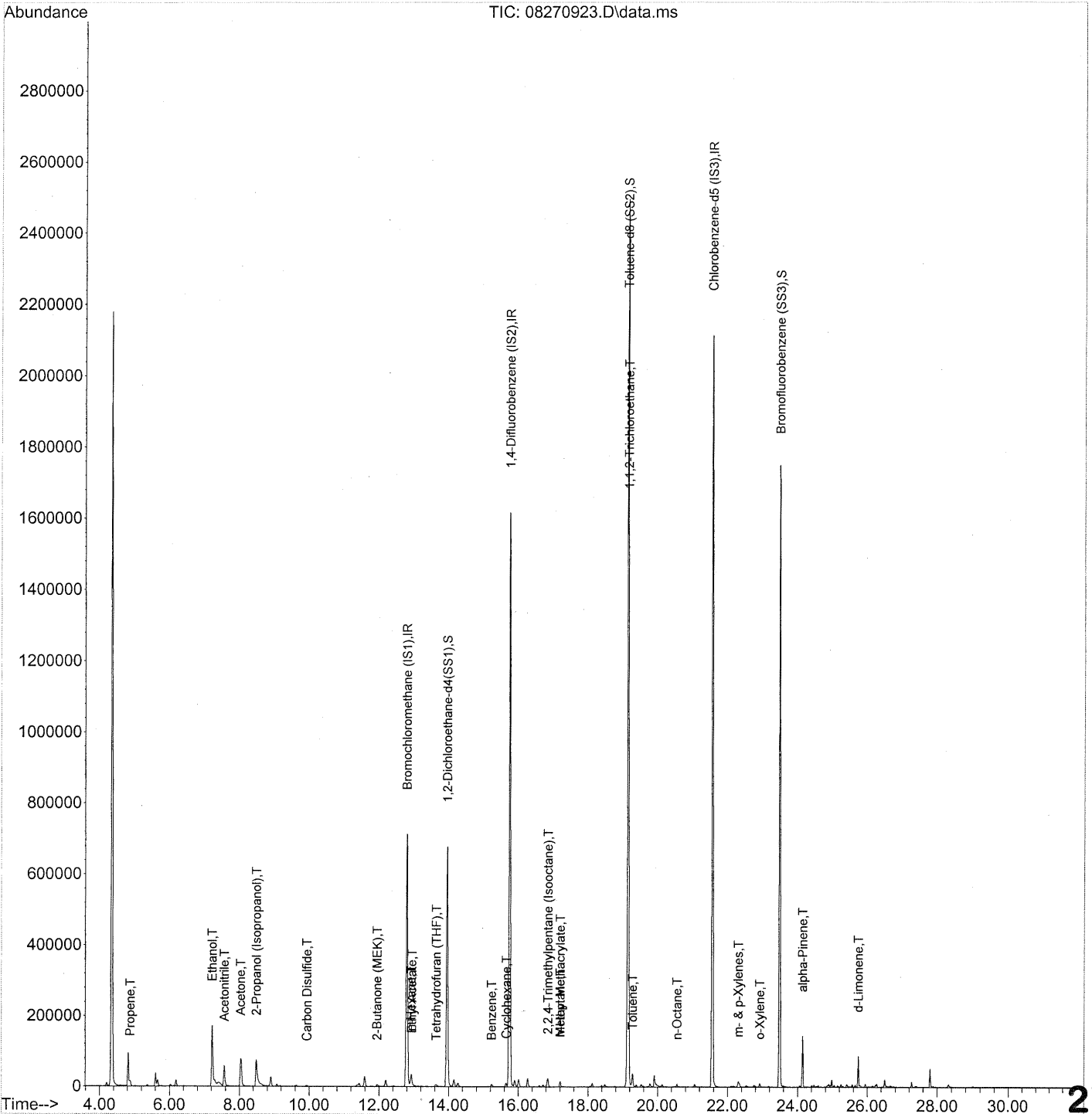
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	0.00	118	0		N.D.	
81) 2-Ethyltoluene	24.79	105	103		N.D.	
82) 1,2,4-Trimethylbenzene	25.06	105	1182		N.D.	
83) n-Decane	25.15	57	2223		N.D.	
84) Benzyl Chloride	0.00	91	0		N.D.	
85) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
86) 1,4-Dichlorobenzene	0.00	146	0		N.D.	
87) sec-Butylbenzene	25.58	105	110		N.D.	
88) 4-Isopropyltoluene (p-...	25.56	119	351		N.D.	
89) 1,2,3-Trimethylbenzene	25.58	105	110		N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) d-Limonene	25.74	68	6031	0.152	ng	89
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.66	57	2296		N.D.	
94) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
95) Naphthalene	27.96	128	1289		N.D.	
96) n-Dodecane	27.89	57	1809		N.D.	
97) Hexachlorobutadiene	0.00	225	0		N.D.	
98) Cyclohexanone	22.55	55	2574	0.078	ng	# 82
99) tert-Butylbenzene	24.94	119	117		N.D.	
100) n-Butylbenzene	25.74	91	1473		N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2009_08\27\
 Data File : 08270923.D
 Acq On : 28 Aug 2009 1:16
 Operator : EM
 Sample : 2899-001 (25ml)
 Misc : Screen
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 07:13:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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Data Path : J:\MS09\Data\2009_08\27\
 Data File : 08270923.D
 Acq On : 28 Aug 2009 1:16
 Operator : EM
 Sample : 2899-001 (25ml)
 Misc : Screen
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 07:13:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	373353	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1899060	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	929075	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	672642	25.480	ng	-0.03
Spiked Amount	25.000		Recovery	=	101.92%	
57) Toluene-d8 (SS2)	19.14	98	2202638	24.938	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.76%	
73) Bromofluorobenzene (SS3)	23.49	174	620269	24.797	ng	0.00
Spiked Amount	25.000		Recovery	=	99.20%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.87	42	2136	0.065	ng	# 1
3) Dichlorodifluoromethan...	5.01	85	922	N.D.		
4) Chloromethane	5.36	50	690	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.22	45	338642	16.484	ng	100
11) Acetonitrile	7.56	41	90151	1.798	ng	99
12) Acrolein	7.82	56	263	N.D.		
13) Acetone	8.03	58	35669	1.706	ng	# 77
14) Trichlorofluoromethane	8.29	101	726	N.D.		
15) 2-Propanol (Isopropanol)	8.48	45	197047	3.442	ng	100
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	9.53	84	729	N.D.		
20) 3-Chloro-1-propene (Al...	9.63	41	1312	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.93	76	6782	0.074	ng	# 75
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	11.45	73	789	N.D.		
26) Vinyl Acetate	11.60	86	114	N.D.		
27) 2-Butanone (MEK)	11.94	72	3012	0.207	ng	# 5
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.94	61	3808	0.403	ng	# 76
31) n-Hexane	12.92	57	14768	0.321	ng	# 276

Data Path : J:\MS09\Data\2009_08\27\
 Data File : 08270923.D
 Acq On : 28 Aug 2009 1:16
 Operator : EM
 Sample : 2899-001 (25ml)
 Misc : Screen
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 07:13:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	212	N.D.		
34) Tetrahydrofuran (THF)	13.64	72	2152	0.142 ng	#	51
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	998	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.27	56	857	N.D.		
41) Benzene	15.23	78	8811	0.086 ng		94
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.65	84	5351	0.135 ng	#	79
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.72	83	124	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	28062	0.239 ng		92
50) Methyl Methacrylate	17.20	100	1138	0.112 ng	#	1
51) n-Heptane	17.20	71	4484	0.165 ng		84
52) cis-1,3-Dichloropropene	17.97	75	389	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.16	97	168226	7.710 ng	#	8
58) Toluene	19.28	91	27259	0.255 ng		100
59) 2-Hexanone	19.58	43	2645	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.46	43	2330	N.D.		
63) n-Octane	20.56	57	1479	0.062 ng	#	57
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.10	91	3484	N.D.		
67) m- & p-Xylenes	22.31	91	19243	0.210 ng		96
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.80	104	1493	N.D.		
70) o-Xylene	22.92	91	8063	0.087 ng		88
71) n-Nonane	23.18	43	1554	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.67	105	1505	N.D.		
75) alpha-Pinene	24.15	93	67840	1.150 ng		97
76) n-Propylbenzene	24.29	91	516	N.D.		
77) 3-Ethyltoluene	24.41	105	4974	N.D.		
78) 4-Ethyltoluene	24.47	105	2801	N.D.		
79) 1,3,5-Trimethylbenzene	24.55	105	2610	N.D.		

Data Path : J:\MS09\Data\2009_08\27\
 Data File : 08270923.D
 Acq On : 28 Aug 2009 1:16
 Operator : EM
 Sample : 2899-001 (25ml)
 Misc : Screen
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 07:13:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0		N.D.	
81) 2-Ethyltoluene	24.79	105	1713		N.D.	
82) 1,2,4-Trimethylbenzene	25.05	105	4436		N.D.	
83) n-Decane	25.15	57	2381		N.D.	
84) Benzyl Chloride	24.99	91	2474		N.D.	
85) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
86) 1,4-Dichlorobenzene	0.00	146	0		N.D.	
87) sec-Butylbenzene	25.57	105	1288		N.D.	
88) 4-Isopropyltoluene (p-...	25.57	119	3952		N.D.	
89) 1,2,3-Trimethylbenzene	25.57	105	1288		N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) d-Limonene	25.74	68	23635	0.584	ng	93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.65	57	2181		N.D.	
94) 1,2,4-Trichlorobenzene	0.00	180	0		N.D.	
95) Naphthalene	27.96	128	1251		N.D.	
96) n-Dodecane	27.89	57	1394		N.D.	
97) Hexachlorobutadiene	0.00	225	0		N.D.	
98) Cyclohexanone	22.55	55	1343		N.D.	
99) tert-Butylbenzene	25.05	119	245		N.D.	
100) n-Butylbenzene	26.04	91	369		N.D.	

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

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

CAS Project ID: P0902899
 CAS Sample ID: P090828-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 8/28/09
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: 9/2/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

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

CAS Project ID: P0902899
 CAS Sample ID: P090828-MB

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

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/28/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result μg/m ³	MRL μg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

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

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

Verified By: Re

Date: 9/10/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

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

CAS Project ID: P0902899
 CAS Sample ID: P090828-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 8/28/09
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.

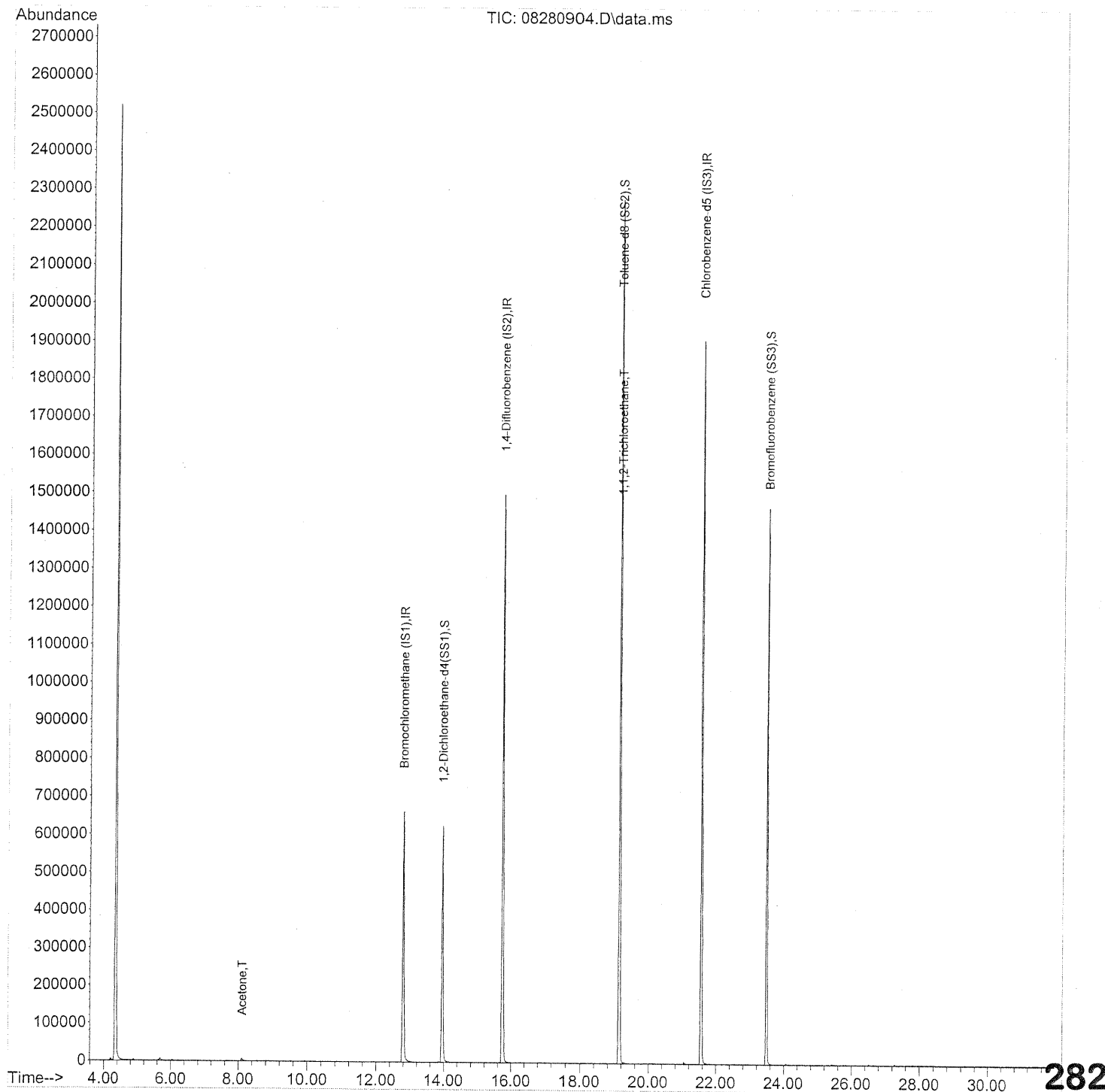
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: *ker* Date: *9/2/09* **281**

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280904.D
 Acq On : 28 Aug 2009 7:58
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 08:43:10 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280904.D
 Acq On : 28 Aug 2009 7:58
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	344323	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1751891	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	815668	25.000	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)	Recovery
33) 1,2-Dichloroethane-d4 (...)	13.95	65	621768	25.538	ng	-0.03	102.16%
Spiked Amount				25.000			
57) Toluene-d8 (SS2)	19.14	98	2000250	25.796	ng	-0.02	103.20%
Spiked Amount				25.000			
73) Bromofluorobenzene (SS3)	23.49	174	518668	23.619	ng	0.00	94.48%
Spiked Amount				25.000			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.88	42	960	N.D.		
3) Dichlorodifluoromethan...	5.04	85	374	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	7.33	45	243	N.D.		
11) Acetonitrile	7.63	41	1392	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	8.11	58	4564	0.237	ng	96
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	0.00	45	0	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.		
19) Methylene Chloride	9.53	84	242	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.94	76	2022	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

em 8/28/09

Data Path : J:\MS09\Data\2009_08\28\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	15.23	78	2244	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.74	84	858	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	1256	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.16	97	162671	8.082 ng #		8
58) Toluene	19.28	91	1602	N.D.		
59) 2-Hexanone	0.00	43	0	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.56	43	111	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	22.31	91	1047	N.D.		
67) m- & p-Xylenes	22.31	91	1047	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.93	91	567	N.D.		
71) n-Nonane	23.18	43	123	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.49	105	645	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.42	105	615	N.D.		
78) 4-Ethyltoluene	24.42	105	615	N.D.		
79) 1,3,5-Trimethylbenzene	24.55	105	526	N.D.		

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 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0			N.D.
81) 2-Ethyltoluene	24.79	105	103			N.D.
82) 1,2,4-Trimethylbenzene	25.05	105	892			N.D.
83) n-Decane	25.16	57	452			N.D.
84) Benzyl Chloride	0.00	91	0			N.D.
85) 1,3-Dichlorobenzene	0.00	146	0			N.D.
86) 1,4-Dichlorobenzene	0.00	146	0			N.D.
87) sec-Butylbenzene	25.58	105	110			N.D.
88) 4-Isopropyltoluene (p-...	0.00	119	0			N.D.
89) 1,2,3-Trimethylbenzene	25.58	105	110			N.D.
90) 1,2-Dichlorobenzene	0.00	146	0			N.D.
91) d-Limonene	0.00	68	0			N.D.
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0			N.D.
93) n-Undecane	26.66	57	415			N.D.
94) 1,2,4-Trichlorobenzene	0.00	180	0			N.D.
95) Naphthalene	27.96	128	1876			N.D.
96) n-Dodecane	27.89	57	254			N.D.
97) Hexachlorobutadiene	0.00	225	0			N.D.
98) Cyclohexanone	0.00	55	0			N.D.
99) tert-Butylbenzene	0.00	119	0			N.D.
100) n-Butylbenzene	0.00	91	0			N.D.

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

QC SUMMARY FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

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

CAS Project ID: P0902899

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

Date(s) Collected: 8/19 - 8/20/09
Date(s) Received: 8/21/09
Date(s) Analyzed: 8/28 - 8/29/09

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	P090828-MB	102	70-130	103	70-130	94	70-130	
Lab Control Sample	P090828-LCS	101	70-130	102	70-130	97	70-130	
102515	P0902899-001	103	70-130	103	70-130	96	70-130	
102516	P0902899-002	102	70-130	103	70-130	99	70-130	
102517	P0902899-003	103	70-130	99	70-130	98	70-130	
102518	P0902899-004	102	70-130	100	70-130	101	70-130	
102519	P0902899-005	102	70-130	100	70-130	101	70-130	
102520	P0902899-006	103	70-130	101	70-130	95	70-130	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0902899

CAS Sample ID: P090828-LCS

Test Code: EPA TO-15

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

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 8/28/09

Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	26.3	27.5	105	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	22.3	86	61-118	
74-87-3	Chloromethane	25.0	22.5	90	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	21.8	84	65-122	
75-01-4	Vinyl Chloride	25.3	21.7	86	57-132	
106-99-0	1,3-Butadiene	26.8	24.9	93	66-161	
74-83-9	Bromomethane	25.8	23.1	90	67-130	
75-00-3	Chloroethane	25.5	21.6	85	68-123	
64-17-5	Ethanol	130	114	88	50-155	
75-05-8	Acetonitrile	26.0	22.9	88	48-148	
107-02-8	Acrolein	26.3	25.7	98	67-138	
67-64-1	Acetone	132	110	83	59-121	
75-69-4	Trichlorofluoromethane	26.3	21.5	82	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	35.3	74	54-126	
107-13-1	Acrylonitrile	25.8	26.4	102	65-134	
75-35-4	1,1-Dichloroethene	27.5	22.9	83	70-123	
75-09-2	Methylene Chloride	26.8	21.4	80	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	25.7	95	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	23.8	87	69-126	
75-15-0	Carbon Disulfide	26.0	22.2	85	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	22.8	89	69-125	
75-34-3	1,1-Dichloroethane	26.5	23.3	88	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	23.3	89	72-132	
108-05-4	Vinyl Acetate	126	122	97	73-158	
78-93-3	2-Butanone (MEK)	26.8	26.5	99	68-126	

Verified By: Rc

Date: 9/2/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

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

CAS Project ID: P0902899
 CAS Sample ID: P090828-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 8/28/09
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	22.4	86	63-125	
67-66-3	Chloroform	27.5	23.0	84	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	24.4	92	65-124	
107-06-2	1,2-Dichloroethane	26.3	23.8	90	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	22.7	87	69-127	
71-43-2	Benzene	25.8	22.1	86	68-122	
56-23-5	Carbon Tetrachloride	26.3	22.8	87	68-137	
110-82-7	Cyclohexane	51.8	45.0	87	68-121	
78-87-5	1,2-Dichloropropane	26.0	23.4	90	69-128	
75-27-4	Bromodichloromethane	26.3	23.9	91	71-131	
79-01-6	Trichloroethene	25.8	21.8	84	72-122	
123-91-1	1,4-Dioxane	26.0	25.6	98	73-127	
80-62-6	Methyl Methacrylate	52.8	47.4	90	80-133	
142-82-5	n-Heptane	25.8	22.4	87	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	23.5	96	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	26.0	97	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	27.1	100	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	23.9	92	76-125	
108-88-3	Toluene	26.8	23.5	88	74-119	
591-78-6	2-Hexanone	27.0	25.6	95	64-118	
124-48-1	Dibromochloromethane	28.3	26.1	92	79-129	
106-93-4	1,2-Dibromoethane	26.3	25.3	96	79-125	
123-86-4	n-Butyl Acetate	27.5	27.0	98	70-136	

Verified By: Re Date: 9/2/09 **289**

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: P0902899

CAS Sample ID: P090828-LCS

Test Code: EPA TO-15

Date Collected: NA

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

Date Received: NA

Analyst: Elsa Moctezuma

Date Analyzed: 8/28/09

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	24.3	92	75-126	
127-18-4	Tetrachloroethene	25.3	22.2	88	72-125	
108-90-7	Chlorobenzene	26.5	23.3	88	74-121	
100-41-4	Ethylbenzene	26.3	23.8	90	76-120	
179601-23-1	m,p-Xylenes	51.5	46.5	90	75-120	
75-25-2	Bromoform	26.5	24.2	91	76-143	
100-42-5	Styrene	26.3	24.9	95	78-124	
95-47-6	o-Xylene	26.0	23.7	91	76-121	
111-84-2	n-Nonane	25.8	24.1	93	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	25.2	93	77-126	
98-82-8	Cumene	25.3	22.7	90	78-125	
80-56-8	alpha-Pinene	24.8	22.3	90	78-125	
103-65-1	n-Propylbenzene	25.3	22.9	91	80-127	
622-96-8	4-Ethyltoluene	26.3	23.6	90	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	23.9	90	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	24.0	94	76-123	
100-44-7	Benzyl Chloride	26.8	26.3	98	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	24.1	93	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	23.1	88	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	23.2	90	75-124	
5989-27-5	d-Limonene	26.5	24.8	94	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	27.0	100	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	25.4	93	70-139	
91-20-3	Naphthalene	25.0	23.8	95	69-141	
87-68-3	Hexachlorobutadiene	26.8	24.6	92	68-138	

Verified By: RW

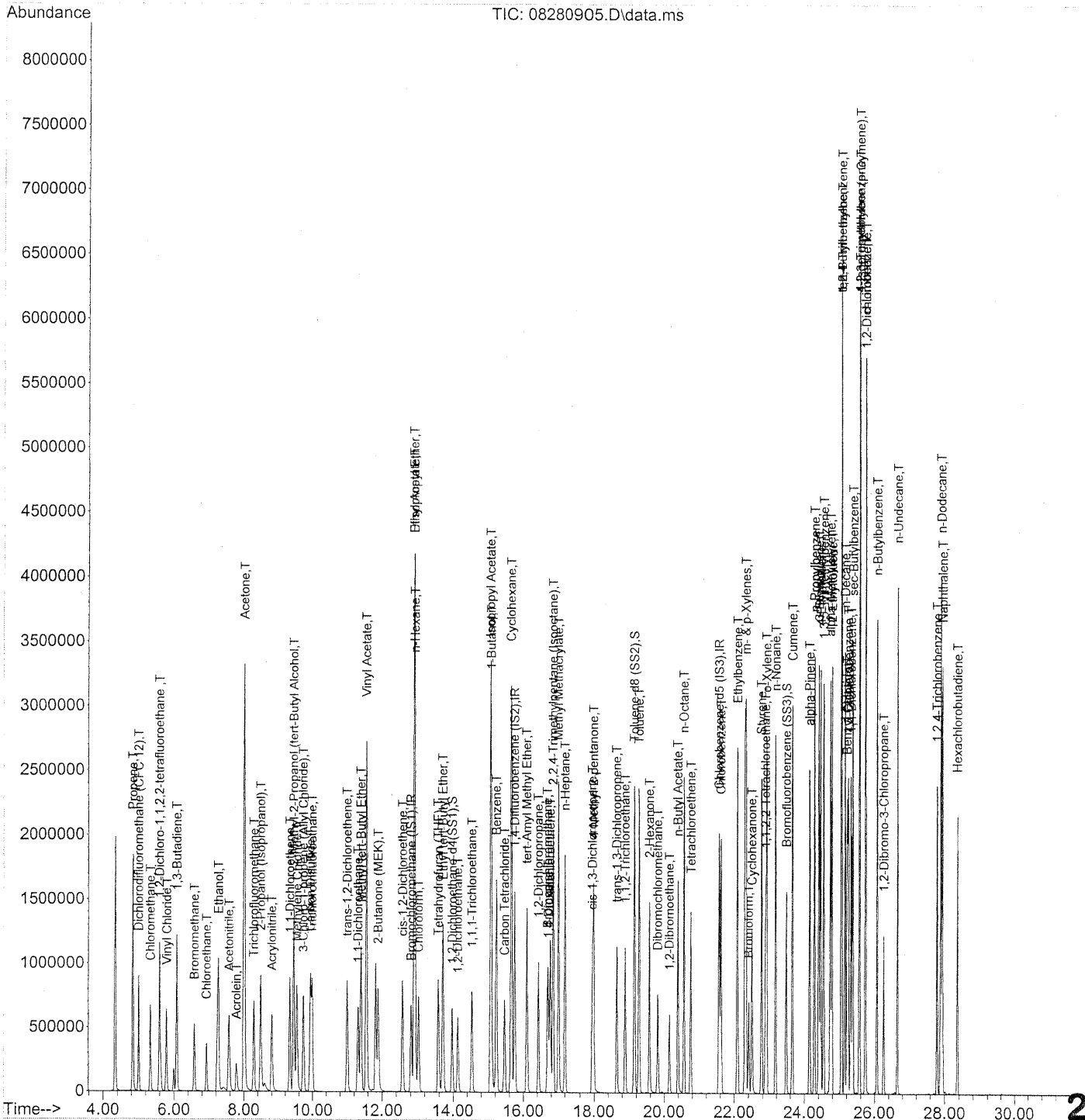
Date: 9/2/09

290

Quantitation Report (Not Reviewed)

Data Path : J:\MS09\Data\2009_08\28\
Data File : 08280905.D
Acq On : 28 Aug 2009 8:39
Operator : EM
Sample : 25ng TO-15 LCS STD
Misc : S20-08130905/S20-08070903
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 28 09:44:14 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280905.D
 Acq On : 28 Aug 2009 8:39
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 28 09:44:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.82	130	360464	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1828926	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	855391	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	640611	25.134	ng	-0.02	
Spiked Amount	25.000		Recovery	=	100.52%		✓
57) Toluene-d8 (SS2)	19.15	98	2079953	25.578	ng	-0.01	✓
Spiked Amount	25.000		Recovery	=	102.32%		✓
73) Bromofluorobenzene (SS3)	23.49	174	556896	24.182	ng	0.00	✓
Spiked Amount	25.000		Recovery	=	96.72%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	869775	27.507	ng	97
3) Dichlorodifluoromethan...	5.00	85	1004263	22.250	ng	99
4) Chloromethane	5.33	50	944519	22.453	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	519836	21.795	ng	100
6) Vinyl Chloride	5.80	62	900653	21.705	ng	99
7) 1,3-Butadiene	6.08	54	735228	24.944	ng	97
8) Bromomethane	6.58	94	501497	23.112	ng	99
9) Chloroethane	6.93	64	443988	21.567	ng	100
10) Ethanol	7.27	45	2140326	107.908	ng	100
11) Acetonitrile	7.57	41	1106591	22.861	ng	100
12) Acrolein	7.79	56	332642	25.716	ng	98
13) Acetone	8.01	58	2229681	110.468	ng	91
14) Trichlorofluoromethane	8.29	101	829667	21.496	ng	98
15) 2-Propanol (Isopropanol)	8.48	45	1770794	32.036	ng	98
16) Acrylonitrile	8.80	53	773503	26.384	ng	99
17) 1,1-Dichloroethene	9.33	96	518361	22.885	ng	95
18) 2-Methyl-2-Propanol (t...	9.44	59	2634397	46.945	ng	98
19) Methylene Chloride	9.54	84	537783	21.355	ng	87
20) 3-Chloro-1-propene (Al...	9.73	41	867833	25.698	ng	88
21) Trichlorotrifluoroethane	9.98	151	410757	23.777	ng	96
22) Carbon Disulfide	9.93	76	1971594	22.185	ng	99
23) trans-1,2-Dichloroethene	11.00	61	793836	22.838	ng	92
24) 1,1-Dichloroethane	11.31	63	990081	23.258	ng	99
25) Methyl tert-Butyl Ether	11.40	73	1609183	23.328	ng	95
26) Vinyl Acetate	11.56	86	533077	121.944	ng	# 63
27) 2-Butanone (MEK)	11.89	72	373488	26.543	ng	# 80
28) cis-1,2-Dichloroethene	12.58	61	776324	23.934	ng	92
29) Diisopropyl Ether	12.90	87	464668	23.260	ng	# 63
30) Ethyl Acetate	12.90	61	434809	47.651	ng	96
31) n-Hexane	12.93	57	994925	22.368	ng	96

Em 8/28/09

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280905.D
 Acq On : 28 Aug 2009 8:39
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 28 09:44:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.03	83	854754	22.960	ng	100
34) Tetrahydrofuran (THF)	13.58	72	357094	24.410	ng #	84
35) Ethyl tert-Butyl Ether	13.71	87	639195	22.426	ng #	86
36) 1,2-Dichloroethane	14.13	62	677034	23.766	ng	99
38) 1,1,1-Trichloroethane	14.54	97	756089	22.730	ng	99
39) Isopropyl Acetate	15.07	61	756938	50.711	ng #	78
40) 1-Butanol	15.09	56	1243757	52.478	ng	84
41) Benzene	15.23	78	2173324	22.096	ng	99
42) Carbon Tetrachloride	15.46	117	626358	22.783	ng	100
43) Cyclohexane	15.66	84	1712985	44.971	ng	87
44) tert-Amyl Methyl Ether	16.10	73	1565255	22.642	ng	98
45) 1,2-Dichloropropane	16.43	63	565640	23.443	ng	99
46) Bromodichloromethane	16.70	83	687123	23.880	ng	98
47) Trichloroethene	16.77	130	543956	21.782	ng	100
48) 1,4-Dioxane	16.71	88	448017	25.610	ng	88
49) 2,2,4-Trimethylpentane...	16.86	57	2525773	22.313	ng	94
50) Methyl Methacrylate	17.02	100	466206	47.436	ng	89
51) n-Heptane	17.21	71	587743	22.447	ng	94
52) cis-1,3-Dichloropropene	17.95	75	855631	23.534	ng	100
53) 4-Methyl-2-pentanone	17.98	58	551956	25.969	ng	94
54) trans-1,3-Dichloropropene	18.64	75	863484	27.149	ng	100
55) 1,1,2-Trichloroethane	18.88	97	502575	23.917	ng	98
58) Toluene	19.28	91	2319669	23.531	ng	100
59) 2-Hexanone	19.58	43	1310427	25.578	ng	98
60) Dibromochloromethane	19.82	129	550408	26.149	ng	100
61) 1,2-Dibromoethane	20.15	107	562066	25.334	ng	99
62) n-Butyl Acetate	20.39	43	1510412	27.019	ng	98
63) n-Octane	20.56	57	533586	24.283	ng	91
64) Tetrachloroethene	20.76	166	542185	22.165	ng	99
65) Chlorobenzene	21.62	112	1412823	23.338	ng	100
66) Ethylbenzene	22.09	91	2529592	23.768	ng	98
67) m- & p-Xylenes	22.33	91	3922121	46.485	ng	100
68) Bromoform	22.41	173	441477	24.163	ng	100
69) Styrene	22.77	104	1553426	24.908	ng	100
70) o-Xylene	22.92	91	2010861	23.690	ng	98
71) n-Nonane	23.17	43	1234003	24.141	ng	92
72) 1,1,2,2-Tetrachloroethane	22.89	83	919936	25.230	ng	99
74) Cumene	23.66	105	2500958	22.724	ng	98
75) alpha-Pinene	24.15	93	1211612	22.314	ng	100
76) n-Propylbenzene	24.28	91	3120919	22.944	ng	99
77) 3-Ethyltoluene	24.41	105	2473485	23.990	ng	98
78) 4-Ethyltoluene	24.46	105	2441028	23.550	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	2044930	23.860	ng	100

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Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280905.D
 Acq On : 28 Aug 2009 8:39
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 28 09:44:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

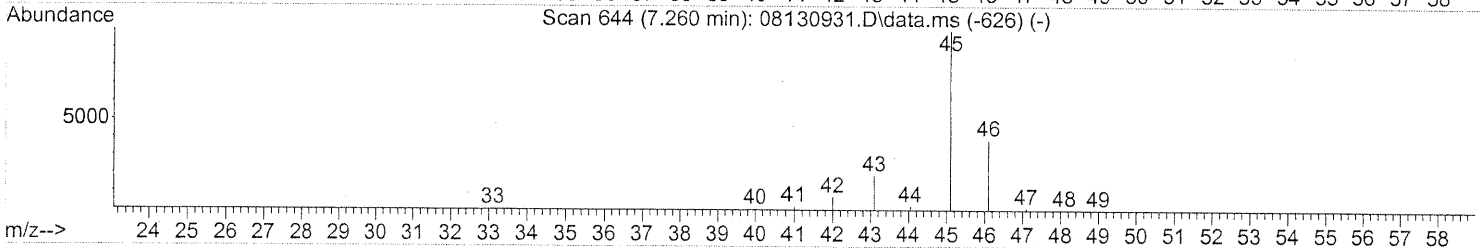
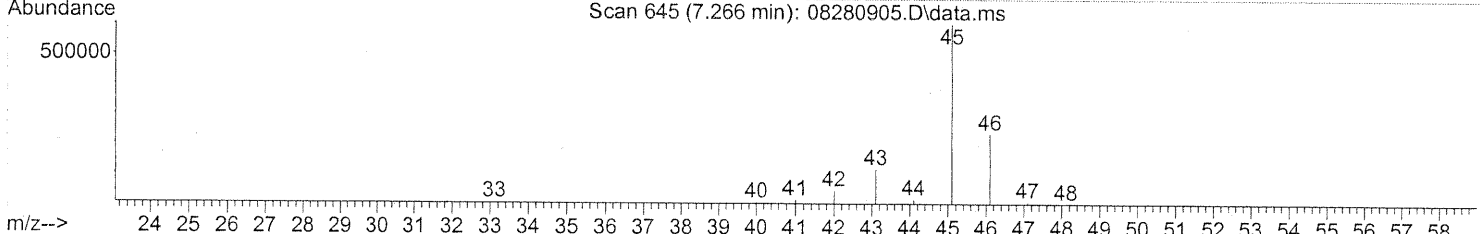
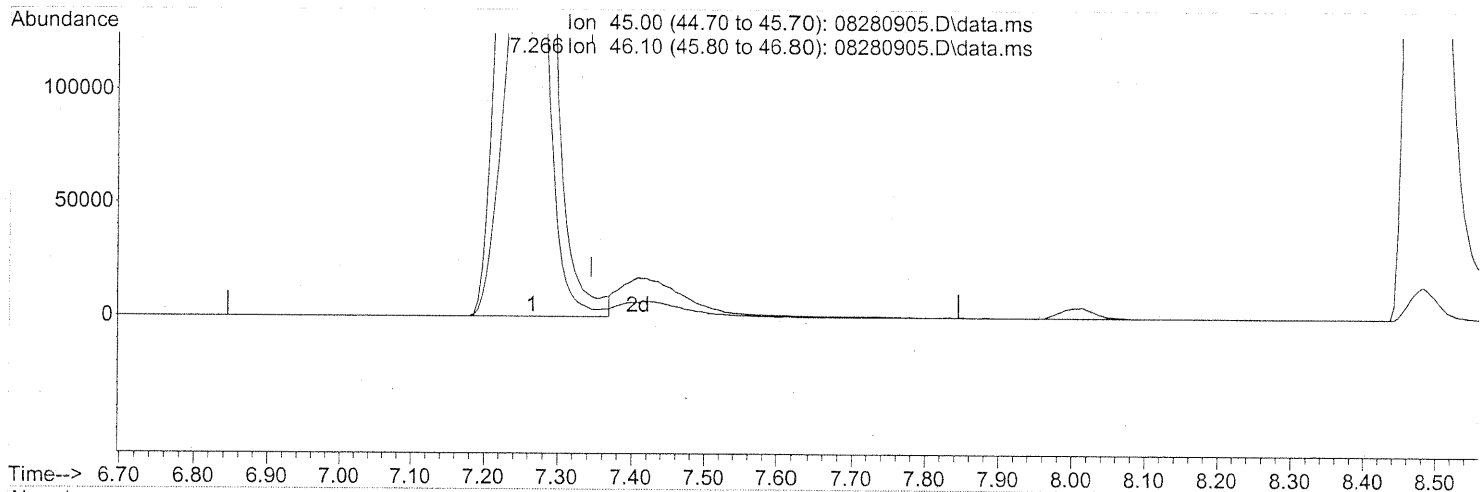
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	1126375	24.221	ng	99
81) 2-Ethyltoluene	24.79	105	2433666	22.857	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2185256	24.015	ng	100
83) n-Decane	25.15	57	1267648	23.933	ng	95
84) Benzyl Chloride	25.22	91	1853132	26.323	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1134725	24.087	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1154220	23.092	ng	100
87) sec-Butylbenzene	25.38	105	2771405	23.112	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	2630865	22.899	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2178588	23.686	ng	99
90) 1,2-Dichlorobenzene	25.75	146	1099555	23.245	ng	100
91) d-Limonene	25.74	68	921872	24.761	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.26	157	385008	26.952	ng	95
93) n-Undecane	26.65	57	1342533	24.530	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	838451	25.372	ng	99
95) Naphthalene	27.94	128	2909331	23.828	ng	100
96) n-Dodecane	27.89	57	1387493	22.648	ng	96
97) Hexachlorobutadiene	28.36	225	464276	24.603	ng	99
98) Cyclohexanone	22.51	55	719479	23.175	ng	95
99) tert-Butylbenzene	25.05	119	2113913	23.424	ng	99
100) n-Butylbenzene	26.07	91	2299793	24.097	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280905.D
 Acq On : 28 Aug 2009 8:39
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 28 09:44:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08280905.D\data.ms

(10) Ethanol (T)

7.266min (-0.080) 107.91ng

response 2140326

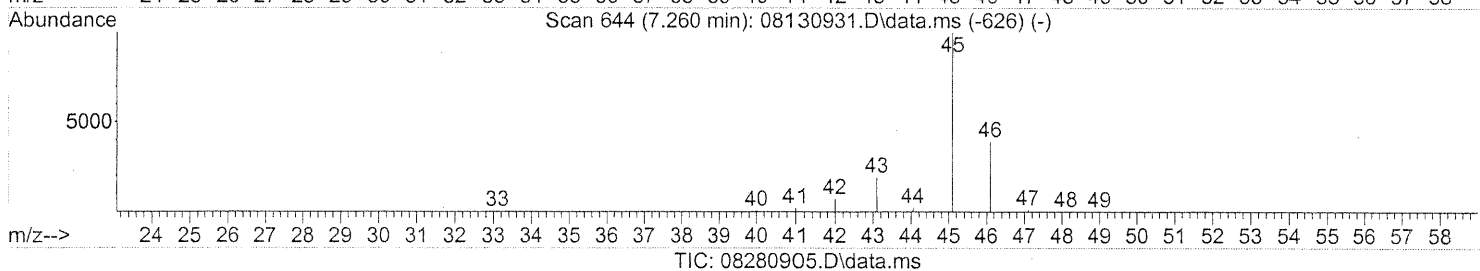
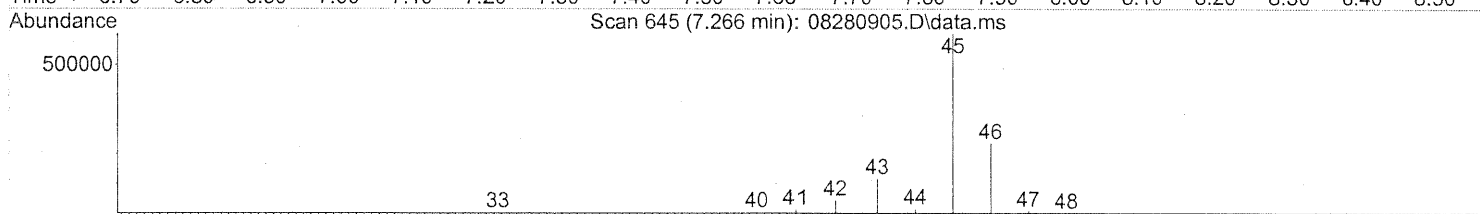
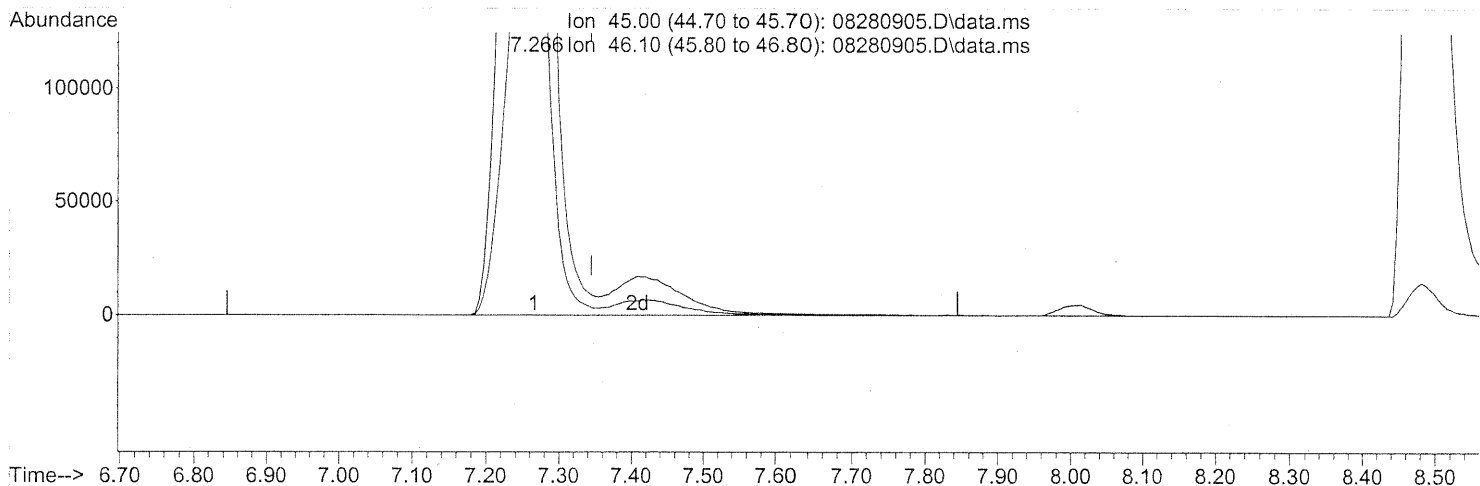
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.16
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280905.D
 Acq On : 28 Aug 2009 8:39
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 28 09:44:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.266min (-0.080) 113.52ng m
 response 2251542

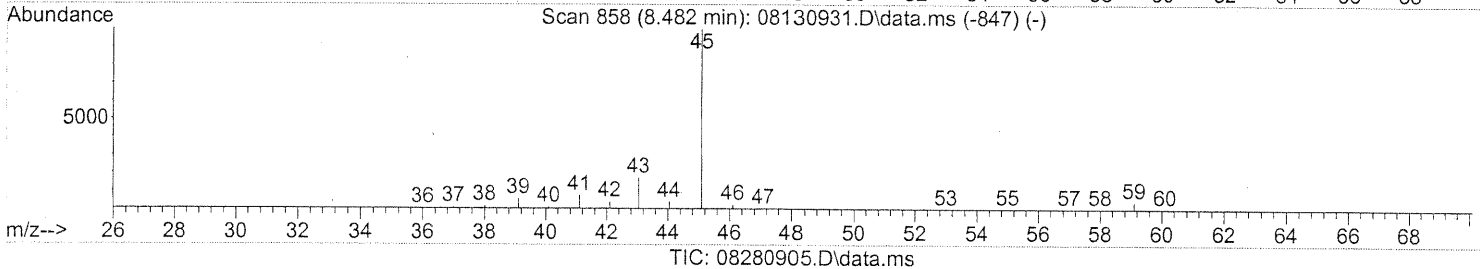
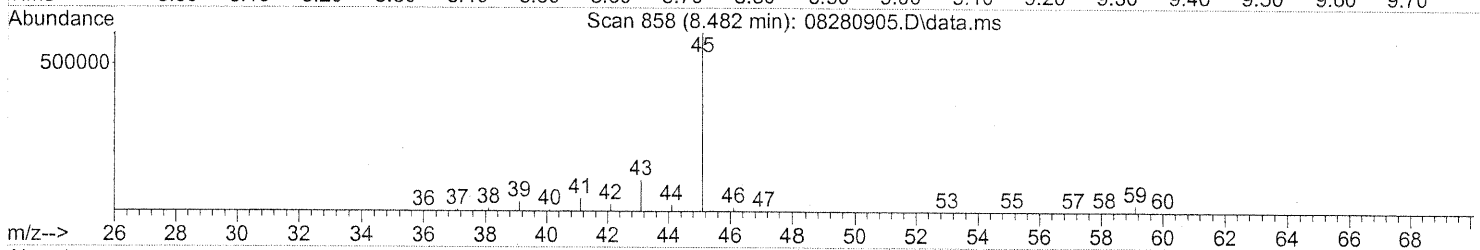
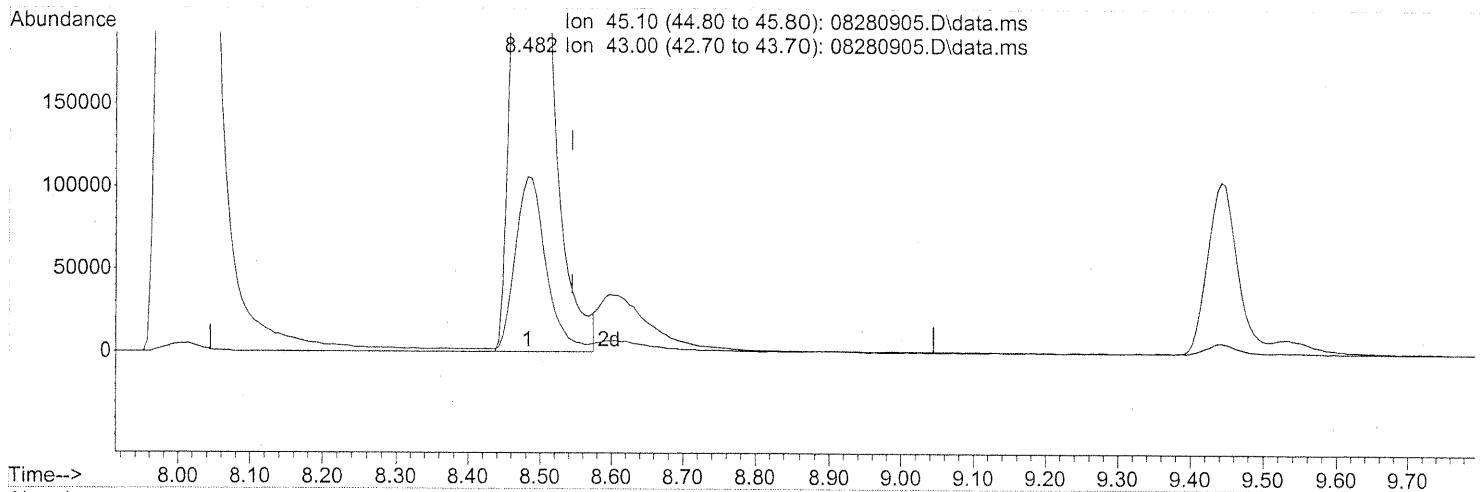
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.23
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 8/28/09
UM 8/31/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280905.D
 Acq On : 28 Aug 2009 8:39
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 28 09:44:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.482min (-0.063) 32.04ng

response 1770794

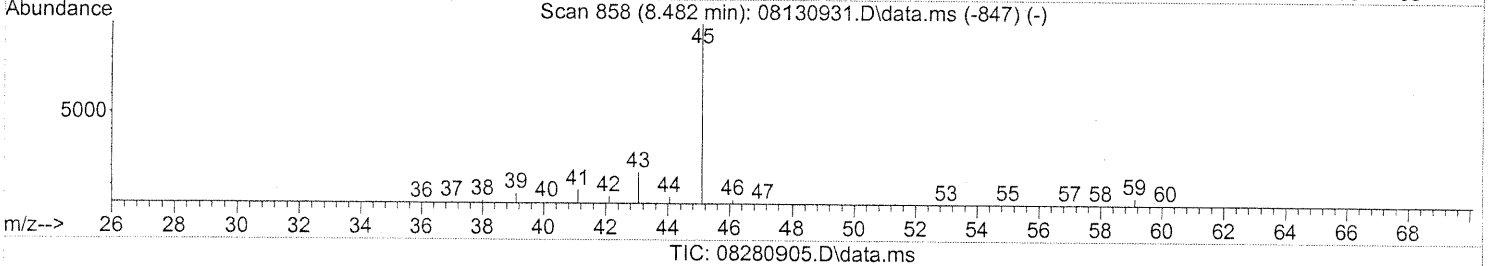
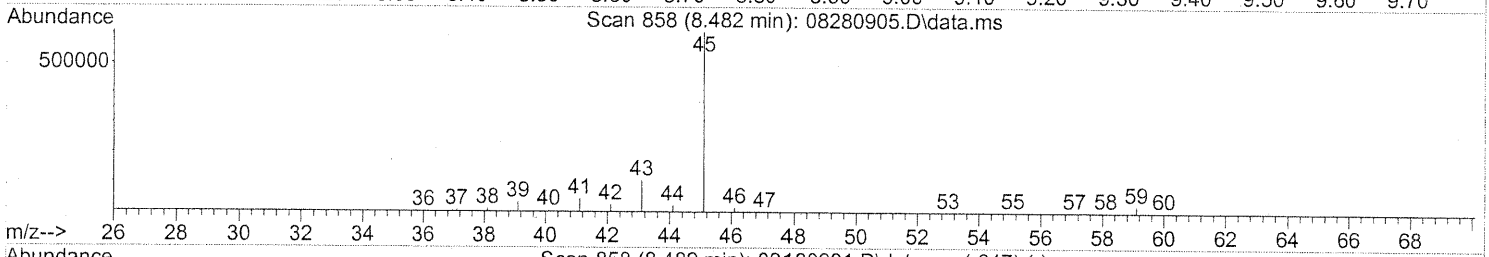
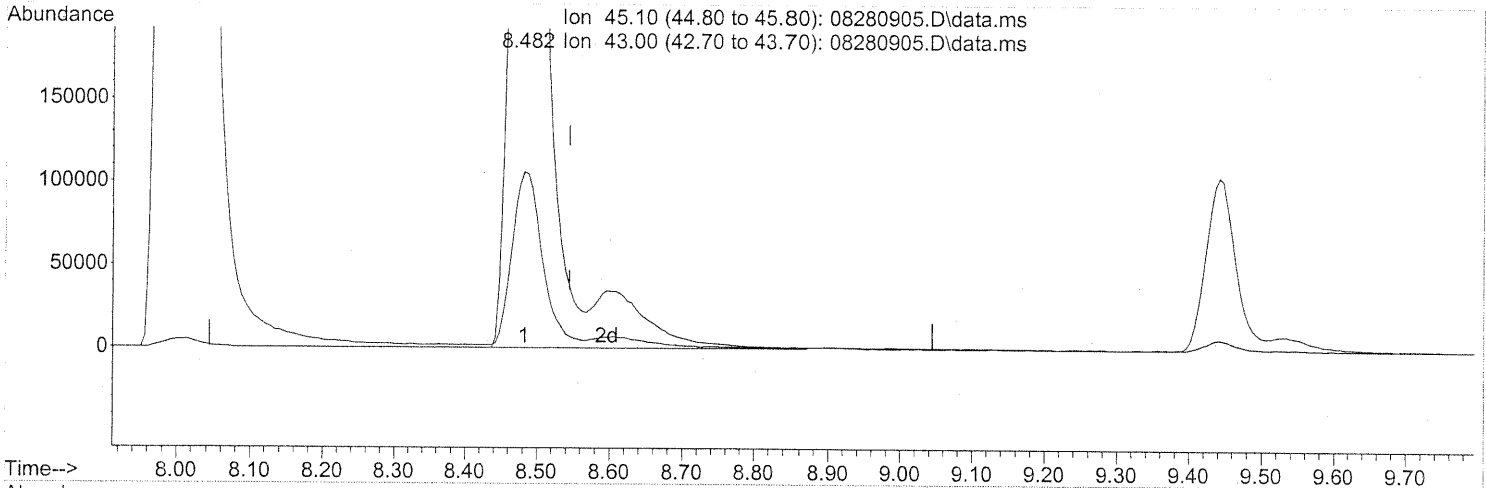
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.64
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280905.D
 Acq On : 28 Aug 2009 8:39
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 28 09:44:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.482min (-0.063) 35.29ng m

response 1950938

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.82
0.00	0.00	0.00
0.00	0.00	0.00

PT → LC
 em 8/28/09
 LH 8/31/09

INITIAL CALIBRATION STANDARDS

Method Path : J:\MS09\Methods\
 Method File : R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 14 07:31:29 2009
 Response Via : Initial Calibration

Calibration Files

0.1 =08130926.D 0.2 =08130927.D 0.5 =08130928.D 1.0 =08130929.D 5.0 =08130930.D 25 =08130931.D
 50 =08130932.D 100 =08130933.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethane...										
2) T Propene	2.174	2.059	2.094	1.808	2.232	2.290	2.446	2.441	2.193	9.63
3) T Dichlorodifluo...	3.035	3.114	3.770	3.266	3.072	2.931	2.923	2.931	3.130	9.06
4) T Chloromethane	2.821	2.880	3.586	3.105	2.875	2.912	2.723	2.438	2.918	11.31
5) T 1,2-Dichloro-1...	1.540	1.594	1.974	1.722	1.584	1.592	1.618	1.608	1.654	8.41
6) T Vinyl Chloride	2.832	2.792	3.468	3.004	2.799	2.744	2.731	2.654	2.878	8.99
7) T 1,3-Butadiene	1.798	1.830	2.433	2.110	2.037	2.073	2.052	2.021	2.044	9.50
8) T Bromomethane	1.454	1.354	1.828	1.539	1.457	1.488	1.450	1.470	1.505	9.32
9) T Chloroethane	1.288	1.353	1.704	1.532	1.407	1.388	1.372	1.378	1.428	9.16
10) T Ethanol	1.327	1.340	1.502	1.355	1.359	1.397	1.382	1.343	1.376	4.08
11) T Acetonitrile	3.225	3.235	3.880	3.469	3.312	3.308	3.278	3.151	3.357	6.86
12) T Acrolein	0.587	0.838	1.022	0.925	0.938	0.968	0.960	0.938	0.897	15.10
13) T Acetone	1.737	1.573	1.514	1.326	1.242	1.261	1.272	1.274	1.400	13.19
14) T Trichlorofluor...	2.460	2.470	3.217	2.781	2.602	2.632	2.617	2.637	2.677	8.99
15) T 2-Propanol (Is...	3.909	4.076	5.169	4.663	3.537	3.561	2.938	2.816	3.834	21.00
16) T Acrylonitrile	1.184	1.544	2.296	2.130	2.248	2.314	2.290	2.261	2.033	21.03
17) T 1,1-Dichloroet...	1.628	1.534	1.819	1.557	1.481	1.503	1.505	1.541	1.571	6.98
18) T 2-Methyl-2-Pro...	3.719	3.691	4.575	4.109	4.026	4.261	2.863		3.892	14.06
19) T Methylene Chlo...	2.075	1.791	2.042	1.702	1.591	1.591	1.590	1.589	1.747	11.79
20) T 3-Chloro-1-pro...	1.881	1.974	2.644	2.375	2.386	2.488	2.495	2.494	2.342	11.52
21) T Trichlorotrifl...	1.029	1.052	1.425	1.232	1.189	1.220	1.226	1.212	1.198	10.17
22) T Carbon Disulfide	6.127	5.864	7.192	6.199	5.928	5.960	5.995	6.042	6.163	6.96
23) T trans-1,2-Dich...	2.076	2.186	2.809	2.490	2.391	2.447	2.447	2.439	2.411	9.02
24) T 1,1-Dichloroet...	2.858	2.714	3.451	2.979	2.870	2.922	2.925	2.901	2.952	7.32
25) T Methyl tert-Bu...	4.501	4.369	5.328	4.761	4.707	4.811	4.903	4.894	4.784	6.03
26) T Vinyl Acetate			0.219	0.227	0.282	0.357	0.377	0.356	0.303	23.05
27) T 2-Butanone (MEK)			0.903	0.913	1.059	1.121	1.122	0.739	0.976	15.54
28) T cis-1,2-Dichlo...	2.018	2.033	2.703	2.314	2.205	2.250	2.252	2.222	2.250	9.40
29) T Diisopropyl Ether	1.155	1.224	1.532	1.408	1.329	1.407	1.482	1.548	1.386	10.24
30) T Ethyl Acetate			0.547	0.527	0.598	0.673	0.712	0.741	0.633	14.01
31) n-Hexane	2.858	2.878	3.605	3.054	2.887	2.950	3.149	3.298	3.085	8.42

Response Factor Report MS09

Method Path : J:\MS09\Methods\
 Method File : R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

32) T	Chloroform	2.288	2.357	3.101	2.678	2.528	2.559	2.566	2.581	2.582	9.48
33) S	1,2-Dichloroet...	1.783	1.785	1.775	1.777	1.772	1.756	1.748	1.745	1.768	0.87
34) T	Tetrahydrofura...	0.777	0.944	1.132	1.091	1.068	1.060	1.025	1.021	1.015	10.94
35) T	Ethyl tert-But...	1.774	1.706	2.202	2.019	1.944	2.017	2.064	2.089	1.977	8.34
36) T	1,2-Dichloroet...	1.727	1.673	2.296	2.056	1.996	2.029	2.021	2.008	1.976	9.92
-----ISTD-----											
37) IR	1,4-Difluorobenzen...										
38) T	1,1,1-Trichlor...	0.444	0.420	0.523	0.463	0.437	0.451	0.456	0.445	0.455	6.67
39) T	Isopropyl Acetate	0.140	0.170	0.218	0.205	0.205	0.228	0.231	0.236	0.204	16.31
40) T	1-Butanol		0.193	0.296	0.289	0.324	0.388	0.392	0.385	0.324	22.49
41) T	Benzene	1.392	1.274	1.620	1.363	1.255	1.281	1.288	1.283	1.344	9.01
42) T	Carbon Tetrach...	0.325	0.355	0.434	0.386	0.359	0.378	0.384	0.386	0.376	8.32
43) T	Cyclohexane	0.487	0.473	0.597	0.520	0.494	0.516	0.530	0.548	0.521	7.54
44) T	tert-Amyl Meth...	0.885	0.846	1.058	0.930	0.920	0.958	0.977	0.986	0.945	6.91
45) T	1,2-Dichloropr...	0.287	0.294	0.386	0.342	0.323	0.336	0.336	0.335	0.330	9.28
46) T	Bromodichlorom...	0.310	0.343	0.460	0.400	0.392	0.412	0.417	0.413	0.393	11.87
47) T	Trichloroethene	0.350	0.332	0.393	0.342	0.315	0.328	0.331	0.341	0.341	6.80
48) T	1,4-Dioxane	0.149	0.181	0.262	0.247	0.250	0.272	0.277	0.275	0.239	19.91
49) T	2,2,4-Trimethy...	1.490	1.428	1.805	1.593	1.481	1.519	1.540	1.522	1.547	7.41
50) T	Methyl Methacr...		0.126	0.120	0.127	0.140	0.140	0.144	0.149	0.134	8.76
51) T	n-Heptane	0.318	0.311	0.430	0.377	0.344	0.357	0.362	0.363	0.358	10.30
52) T	cis-1,3-Dichlo...	0.369	0.393	0.562	0.496	0.513	0.543	0.550	0.550	0.497	15.11
53) T	4-Methyl-2-pen...		0.183	0.286	0.279	0.295	0.328	0.332	0.330	0.291	18.02
54) T	trans-1,3-Dich...	0.279	0.328	0.475	0.439	0.461	0.496	0.501	0.498	0.435	19.49
55) T	1,1,2-Trichlor...	0.220	0.242	0.336	0.299	0.290	0.302	0.303	0.305	0.287	13.09
-----ISTD-----											
56) IR	Chlorobenzene-d5										
57) S	Toluene-d8 (SS2)	2.389	2.355	2.357	2.374	2.368	2.378	2.373	2.420	2.377	0.87
58) T	Toluene	2.992	2.615	3.218	2.870	2.713	2.825	2.847	2.969	2.881	6.39
59) T	2-Hexanone			1.374	1.315	1.424	1.609	1.622	1.640	1.497	9.52
60) T	Dibromochlorom...	0.498	0.484	0.692	0.611	0.611	0.658	0.666	0.701	0.615	13.57
61) T	1,2-Dibromoethane	0.480	0.540	0.721	0.653	0.655	0.697	0.706	0.736	0.648	14.14
62) T	n-Butyl Acetate		0.946	1.471	1.454	1.644	1.883	1.948	2.090	1.634	23.73
63) T	n-Octane	0.573	0.534	0.733	0.656	0.631	0.651	0.665	0.695	0.642	9.96
64) T	Tetrachloroethene	0.653	0.633	0.813	0.718	0.674	0.715	0.728	0.785	0.715	8.69
65) T	Chlorobenzene	1.711	1.658	1.998	1.775	1.674	1.736	1.755	1.847	1.769	6.22
66) T	Ethylbenzene	2.866	2.701	3.479	3.120	3.007	3.146	3.209	3.355	3.111	8.11
67) T	m- & p-Xylenes	2.202	2.207	2.735	2.430	2.352	2.488	2.570	2.744	2.466	8.56
68) T	Bromoform	0.379	0.408	0.568	0.518	0.530	0.592	0.616	0.661	0.534	18.39
69) T	Styrene	1.461	1.519	1.980	1.784	1.806	1.936	1.981	2.115	1.823	12.67
70) T	o-Xylene	2.290	2.120	2.774	2.457	2.356	2.507	2.579	2.763	2.481	9.13

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Method Path : J:\MS09\Methods\
 Method File : R9081309.M

Title	EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)										
71) T	n-Nonane	1.391	1.313	1.710	1.525	1.444	1.512	1.522	1.535	1.494	7.85
72) T	1,1,2,2-Tetrac...	0.879	0.869	1.168	1.042	1.050	1.120	1.157	1.240	1.066	12.60
73) S	Bromofluoroben...	0.673	0.671	0.674	0.671	0.671	0.677	0.676	0.671	0.673	0.39
74) T	Cumene	2.984	2.848	3.575	3.168	3.066	3.250	3.329	3.513	3.217	7.84
75) T	alpha-Pinene	1.402	1.392	1.723	1.533	1.537	1.629	1.680	1.799	1.587	9.28
76) T	n-Propylbenzene	3.674	3.502	4.445	3.969	3.822	4.041	4.126	4.224	3.975	7.65
77) T	3-Ethyltoluene	2.729	2.641	3.288	2.935	2.885	3.119	3.151	3.357	3.013	8.56
78) T	4-Ethyltoluene	2.922	2.595	3.364	2.976	2.853	2.991	3.174	3.361	3.029	8.63
79) T	1,3,5-Trimethy...	2.363	2.252	2.746	2.471	2.345	2.495	2.579	2.787	2.505	7.61
80) T	alpha-Methylst...	1.104	1.096	1.433	1.304	1.329	1.447	1.506	1.655	1.359	14.20
81) T	2-Ethyltoluene	2.902	2.717	3.467	3.084	2.953	3.115	3.211	3.445	3.112	8.35
82) T	1,2,4-Trimethy...	2.333	2.241	2.782	2.509	2.448	2.756	2.954	3.253	2.660	12.81
83) T	n-Decane	1.406	1.408	1.725	1.551	1.487	1.557	1.583	1.667	1.548	7.34
84) T	Benzyl Chloride	1.491	1.511	2.028	1.926	2.036	2.350	2.447	2.671	2.058	20.55
85) T	1,3-Dichlorobe...	1.210	1.172	1.550	1.346	1.295	1.384	1.445	1.613	1.377	11.26
86) T	1,4-Dichlorobe...	1.347	1.288	1.627	1.448	1.360	1.452	1.505	1.660	1.461	9.06
87) T	sec-Butylbenzene	3.353	3.011	3.930	3.477	3.335	3.526	3.611	3.794	3.505	8.16
88) T	4-Isopropyltol...	2.950	2.839	3.579	3.210	3.135	3.474	3.717	3.960	3.358	11.59
89) T	1,2,3-Trimethy...	2.386	2.250	2.845	2.562	2.467	2.766	2.966	3.263	2.688	12.46
90) T	1,2-Dichlorobe...	1.220	1.146	1.485	1.306	1.278	1.394	1.496	1.734	1.382	13.57
91) T	d-Limonene	0.937	0.883	1.147	1.025	1.046	1.162	1.214	1.291	1.088	12.84
92) T	1,2-Dibromo-3-...	0.295	0.296	0.441	0.401	0.429	0.466	0.485	0.526	0.417	20.10
93) T	n-Undecane	1.416	1.402	1.777	1.589	1.558	1.633	1.676	1.747	1.600	8.68
94) T	1,2,4-Trichlor...	0.808	0.826	1.050	0.940	0.928	0.973	1.039	1.161	0.966	12.19
95) T	Naphthalene	3.242	3.022	3.838	3.521	3.475	3.603	3.831	4.017	3.568	9.23
96) T	n-Dodecane	1.632	1.515	1.880	1.777	1.765	1.836	1.917	2.002	1.790	8.78
97) T	Hexachlorobuta...	0.472	0.478	0.593	0.532	0.519	0.556	0.594	0.670	0.552	12.05
98) T	Cyclohexanone	0.755	0.834	0.846	0.808	0.815	1.045	1.063	1.092	0.907	14.91
99) T	tert-Butylbenzene	2.347	2.275	2.769	2.506	2.410	2.702	2.885	3.206	2.638	11.91
100) T	n-Butylbenzene	2.446	2.495	3.071	2.751	2.686	2.854	2.924	3.088	2.789	8.64

(#) = Out of Range

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-08-100002
20ng/L Std. ID: S20-08-100004

200ng/L Std. ID: S20-08-100006
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):	0.025	0.05	0.025	0.050	0.25	0.125	0.25	200
					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

em 8/14/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240912
20ng/L Std. ID: S20-08100904

200ng/L Std. ID: S20-08100902
Dilution Factors: 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.

Cam 8/14/09

Calibration Status Report MS09

Method Path : J:\MS09\Methods\
 Method File : R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 14 07:31:29 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS09\Data\2009_08\13\08130926.D
2	0.2	0	25	J:\MS09\Data\2009_08\13\08130927.D
3	0.5	1	25	J:\MS09\Data\2009_08\13\08130928.D
4	1.0	1	25	J:\MS09\Data\2009_08\13\08130929.D
5	5.0	5	25	J:\MS09\Data\2009_08\13\08130930.D
6	25	27	25	J:\MS09\Data\2009_08\13\08130931.D
7	50	54	25	J:\MS09\Data\2009_08\13\08130932.D
8	100	107	25	J:\MS09\Data\2009_08\13\08130933.D

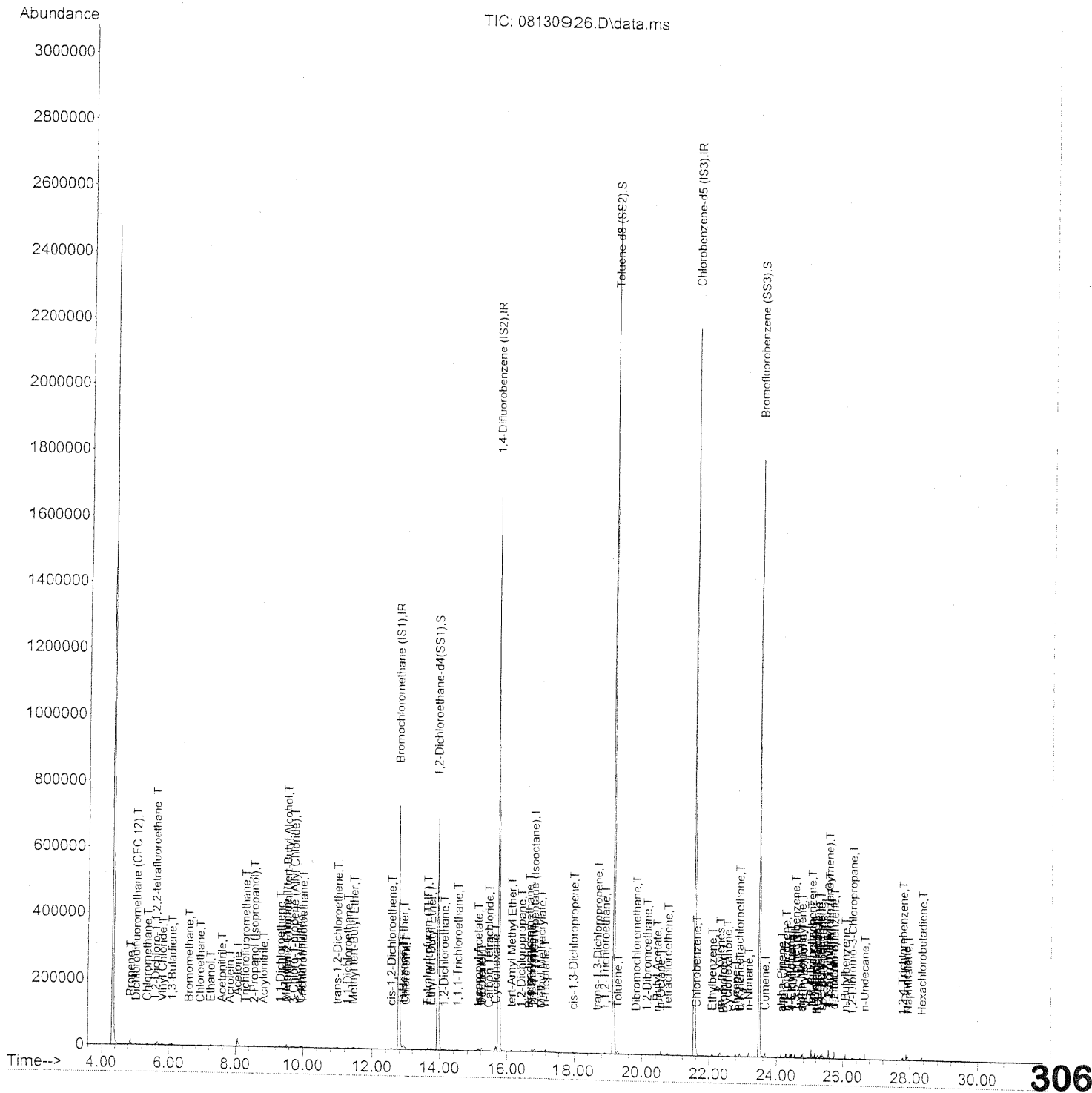
#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 14 07:29 2009	Aug 14 07:05 2009	14 Aug 2009 1:56
2	0.2	Aug 14 07:30 2009	Aug 14 07:14 2009	14 Aug 2009 2:38
3	0.5	Aug 14 07:30 2009	Aug 14 07:20 2009	14 Aug 2009 3:19
4	1.0	Aug 14 07:30 2009	Aug 14 07:21 2009	14 Aug 2009 4:01
5	5.0	Aug 14 07:30 2009	Aug 14 07:23 2009	14 Aug 2009 4:43
6	25	Aug 14 07:31 2009	Aug 14 07:26 2009	14 Aug 2009 5:24
7	50	Aug 14 07:31 2009	Aug 14 07:27 2009	14 Aug 2009 6:06
8	100	Aug 14 07:31 2009	Aug 14 07:28 2009	14 Aug 2009 6:47

R9081309.M Fri Aug 14 07:48:55 2009

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	388910	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1986864	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	961494	25.000	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4 (...)	13.95	65	693371	25.200	ng	-0.04
Spiked Amount	25.000					
						Recovery = 100.80%
57) Toluene-d8 (SS2)	19.14	98	2296672	24.144	ng	-0.02
Spiked Amount	25.000					
						Recovery = 96.56%
73) Bromofluorobenzene (SS3)	23.49	174	646809	22.617	ng	0.00
Spiked Amount	25.000					
						Recovery = 90.48%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.87	42	3618	0.147	ng	98
3) Dichlorodifluoromethan...	5.03	85	4958	0.101	ng	# 88
4) Chloromethane	5.36	50	4388	0.120	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	5.61	135	2540	0.092	ng	85
6) Vinyl Chloride	5.81	62	4449	0.114	ng	88
7) 1,3-Butadiene	6.11	54	3356	0.119	ng	97
8) Bromomethane	6.60	94	2307	0.100	ng	99
9) Chloroethane	6.94	64	2024	0.103	ng	# 53
10) Ethanol	7.25	45	10733m	0.659	ng	
11) Acetonitrile	7.59	41	5267	0.143	ng	82
12) Acrolein	7.83	56	986	0.083	ng	87
13) Acetone	8.06	58	14865	0.803	ng	89
14) Trichlorofluoromethane	8.29	101	4018	0.094	ng	99
15) 2-Propanol (Isopropanol)	8.56	45	11494	0.236	ng	77
16) Acrylonitrile	8.84	53	1953	0.079	ng	89
17) 1,1-Dichloroethene	9.33	96	2785	0.128	ng	91
18) 2-Methyl-2-Propanol (t...	9.53	59	11686	0.213	ng	# 84
19) Methylene Chloride	9.53	84	3454	0.141	ng	90
20) 3-Chloro-1-propene (Al...	9.73	41	3161	0.119	ng	68
21) Trichlorotrifluoroethane	9.98	151	1761	0.091	ng	# 81
22) Carbon Disulfide	9.93	76	10199	0.122	ng	81
23) trans-1,2-Dichloroethene	10.99	61	3423	0.107	ng	87
24) 1,1-Dichloroethane	11.29	63	4712	0.121	ng	83
25) Methyl tert-Butyl Ether	11.46	73	7632	0.111	ng	94
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	12.57	61	3421	0.111	ng	88
29) Diisopropyl Ether	12.94	87	1922	0.088	ng	# 89
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.93	57	4846	0.113	ng	

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	3808	0.098	ng	92
34) Tetrahydrofuran (THF)	13.65	72	1329	0.100	ng	# 49
35) Ethyl tert-Butyl Ether	13.75	87	2842	0.097	ng	# 88
36) 1,2-Dichloroethane	14.14	62	2848	0.091	ng	# 63
38) 1,1,1-Trichloroethane	14.53	97	3702	0.102	ng	86
39) Isopropyl Acetate	15.13	61	2323	0.161	ng	# 40
40) 1-Butanol	15.23	56	2885	0.117	ng	# 48
41) Benzene	15.23	78	11726	0.111	ng	95
42) Carbon Tetrachloride	15.45	117	2792	0.090	ng	94
43) Cyclohexane	15.65	84	8323	0.210	ng	# 85
44) tert-Amyl Methyl Ether	16.14	73	7312	0.104	ng	95
45) 1,2-Dichloropropane	16.45	63	2391	0.107	ng	92
46) Bromodichloromethane	16.69	83	2661	0.087	ng	93
47) Trichloroethene	16.77	130	2951	0.109	ng	96
48) 1,4-Dioxane	16.78	88	1271	0.071	ng	# 58
49) 2,2,4-Trimethylpentane...	16.85	57	12314	0.120	ng	92
50) Methyl Methacrylate	17.07	100	553	0.056	ng	# 1
51) n-Heptane	17.21	71	2682	0.105	ng	93
52) cis-1,3-Dichloropropene	17.97	75	2905	0.078	ng	# 57
53) 4-Methyl-2-pentanone	18.04	58	915	N.D.		
54) trans-1,3-Dichloropropene	18.67	75	2439	0.075	ng	# 60
55) 1,1,2-Trichloroethane	18.90	97	1838	0.083	ng	99
58) Toluene	19.28	91	12428	0.107	ng	98
59) 2-Hexanone	19.68	43	1480	N.D.		
60) Dibromochloromethane	19.83	129	2204	0.084	ng	85
61) 1,2-Dibromoethane	20.15	107	1955	0.072	ng	94
62) n-Butyl Acetate	20.44	43	2958	0.053	ng	# 49
63) n-Octane	20.56	57	2356	0.104	ng	88
64) Tetrachloroethene	20.76	166	2562	0.083	ng	98
65) Chlorobenzene	21.62	112	7106	0.097	ng	98
66) Ethylbenzene	22.09	91	11683	0.092	ng	94
67) m- & p-Xylenes	22.32	91	17613	0.169	ng	99
68) Bromoform	22.42	173	1501	0.064	ng	# 65
69) Styrene	22.79	104	6011	0.078	ng	94
70) o-Xylene	22.92	91	9337	0.090	ng	95
71) n-Nonane	23.17	43	5669	0.112	ng	87
72) 1,1,2,2-Tetrachloroethane	22.89	83	3618	0.084	ng	92
74) Cumene	23.66	105	11820	0.086	ng	93
75) alpha-Pinene	24.15	93	5445	0.082	ng	99
76) n-Propylbenzene	24.28	91	14553	0.087	ng	93
77) 3-Ethyltoluene	24.41	105	11442	0.087	ng	100
78) 4-Ethyltoluene	24.46	105	12248	0.093	ng	95
79) 1,3,5-Trimethylbenzene	24.55	105	9904	0.091	ng	95

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.74	118	4543	0.074	ng	98
81) 2-Ethyltoluene	24.79	105	11719	0.085	ng	95
82) 1,2,4-Trimethylbenzene	25.05	105	9509	0.078	ng	100
83) n-Decane	25.15	57	5840	0.099	ng	89
84) Benzyl Chloride	25.22	91	6309	0.072	ng	92
85) 1,3-Dichlorobenzene	25.25	146	5071	0.079	ng	100
86) 1,4-Dichlorobenzene	25.33	146	5490	0.082	ng	97
87) sec-Butylbenzene	25.38	105	13671	0.089	ng	96
88) 4-Isopropyltoluene (p-...	25.56	119	11685	0.076	ng	96
89) 1,2,3-Trimethylbenzene	25.57	105	9819	0.079	ng	99
90) 1,2-Dichlorobenzene	25.75	146	4975	0.075	ng	99
91) d-Limonene	25.74	68	3927	0.081	ng	84
92) 1,2-Dibromo-3-Chloropr...	26.28	157	1250	0.067	ng	# 78
93) n-Undecane	26.65	57	5934	0.098	ng	93
94) 1,2,4-Trichlorobenzene	27.79	180	3482	0.081	ng	# 95
95) Naphthalene	27.94	128	13216	0.088	ng	98
96) n-Dodecane	27.89	57	6214	0.096	ng	91
97) Hexachlorobutadiene	28.36	225	1995	0.081	ng	96
98) Cyclohexanone	22.55	55	2844	0.081	ng	# 82
99) tert-Butylbenzene	25.05	119	9567	0.077	ng	93
100) n-Butylbenzene	26.07	91	10255	0.084	ng	99

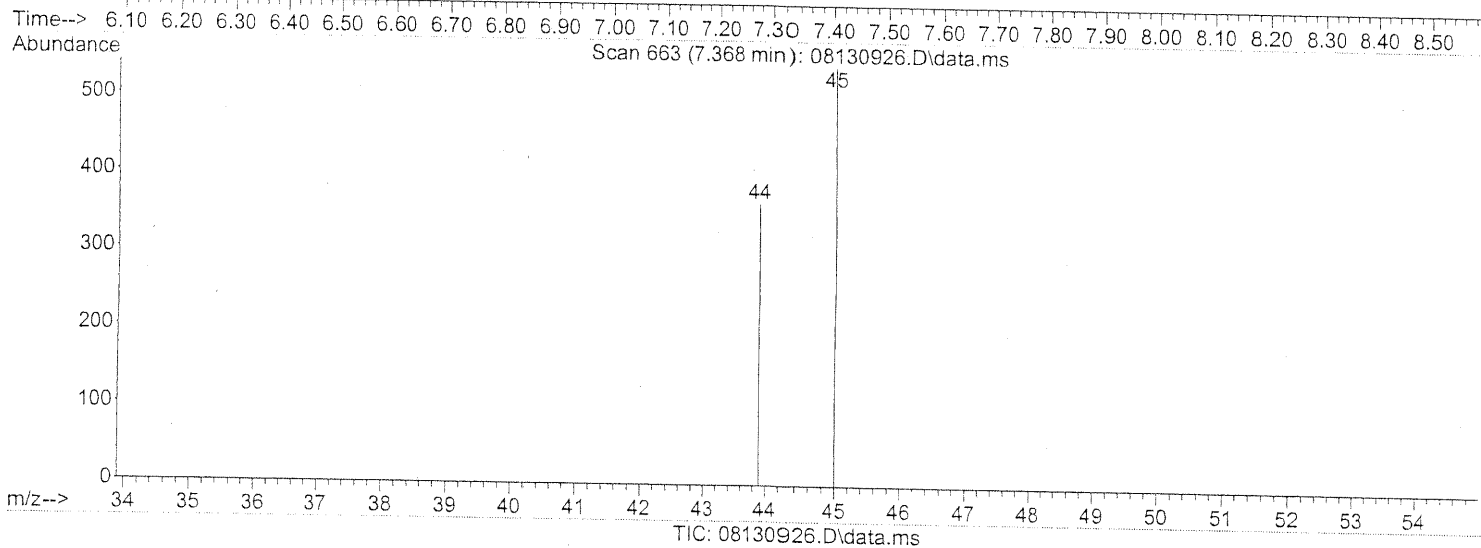
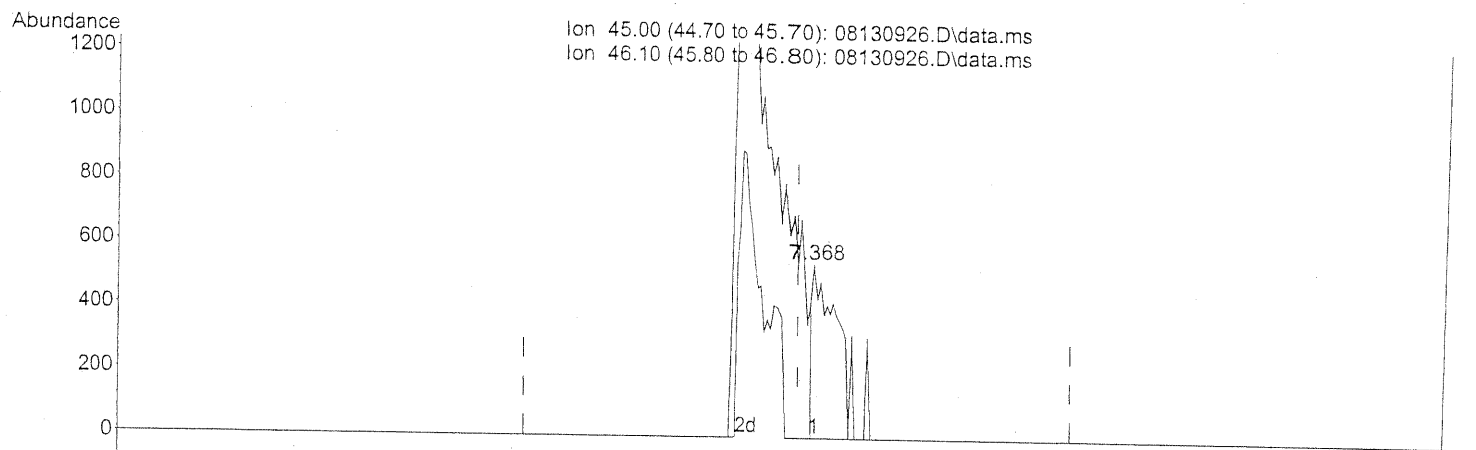
(#) = qualifier out of range (m) = manual integration (+) = signals summed

EM 8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:04:25 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.368min (+0.029) 0.10ng
 response 1639

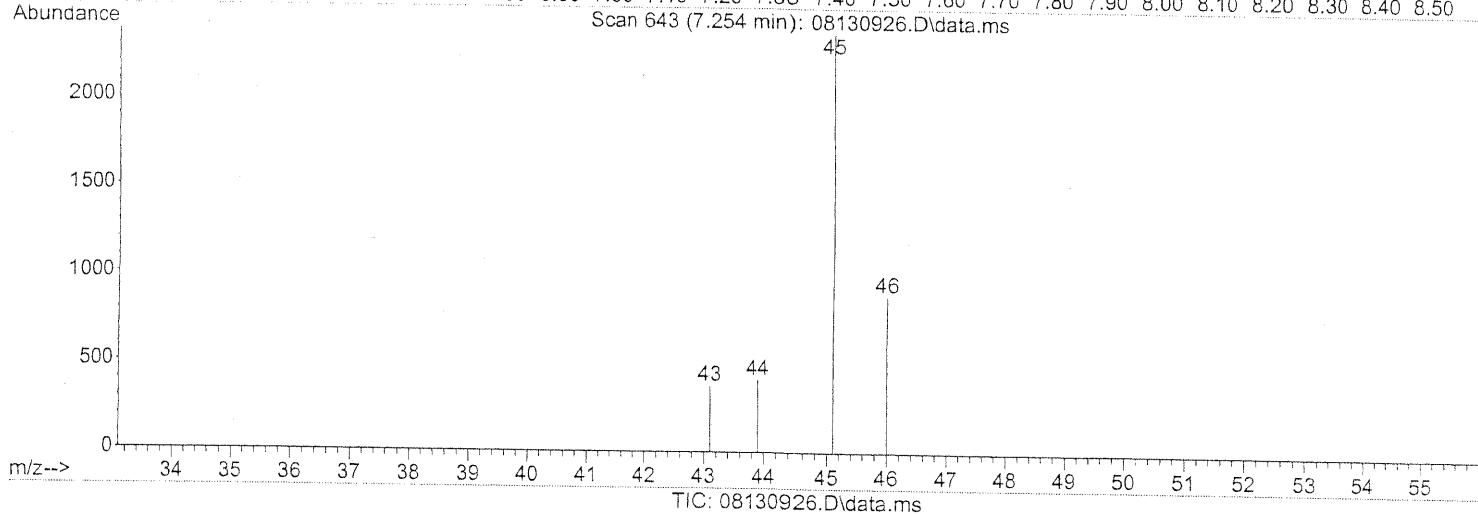
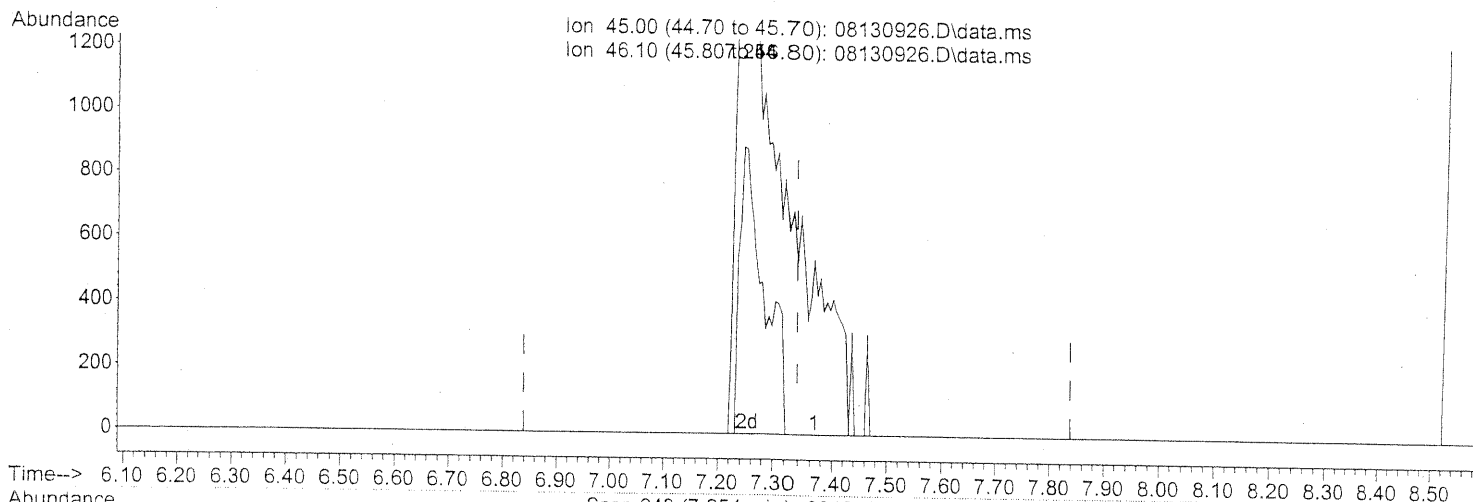
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:04:25 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.254min (-0.086) 0.66ng m
 response 10733

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

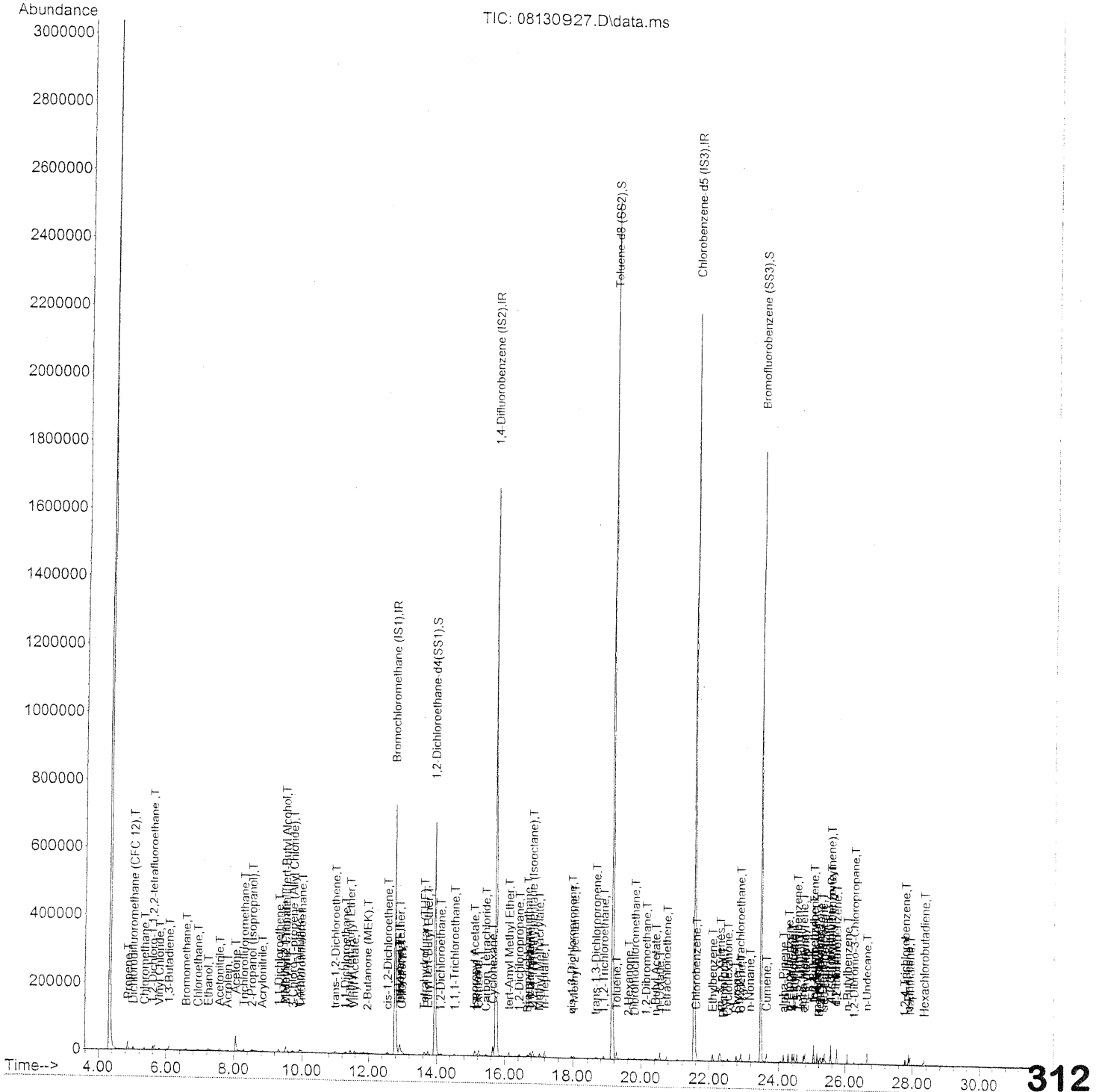
SP → IC
Em 8/14/09

DA 8/15/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130927.D
Acq On : 14 Aug 2009 2:38
Operator : EM
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-08130905/S20-07240912
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	387904	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1988065	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	969971	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4 (...)	13.95	65	692264	25.225	ng	-0.03
Spiked Amount				25.000		
				Recovery =		100.92%
57) Toluene-d8 (SS2)	19.14	98	2284146	23.803	ng	-0.02
Spiked Amount				25.000		
				Recovery =		95.20%
73) Bromofluorobenzene (SS3)	23.49	174	650502	22.548	ng	0.00
Spiked Amount				25.000		
				Recovery =		90.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.87	42	6837	0.279	ng	97
3) Dichlorodifluoromethan...	5.02	85	10147	0.208	ng	95
4) Chloromethane	5.36	50	8936	0.244	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	5244	0.191	ng	89
6) Vinyl Chloride	5.81	62	8752	0.224	ng	91
7) 1,3-Butadiene	6.10	54	6814	0.243	ng	94
8) Bromomethane	6.60	94	4286	0.186	ng	92
9) Chloroethane	6.94	64	4242	0.217	ng	84
10) Ethanol	7.24	45	21624	1.332	ng	85
11) Acetonitrile	7.58	41	10541	0.287	ng	86
12) Acrolein	7.82	56	2810	0.237	ng	96
13) Acetone	8.05	58	26843	1.453	ng	93
14) Trichlorofluoromethane	8.29	101	8048	0.189	ng	100
15) 2-Propanol (Isopropanol)	8.53	45	23904	0.492	ng	96
16) Acrylonitrile	8.83	53	5080	0.205	ng	92
17) 1,1-Dichloroethene	9.32	96	5237	0.242	ng	94
18) 2-Methyl-2-Propanol (t...	9.52	59	23137	0.423	ng	93
19) Methylene Chloride	9.52	84	5947	0.243	ng	88
20) 3-Chloro-1-propene (Al...	9.73	41	6616	0.251	ng	84
21) Trichlorotrifluoroethane	9.98	151	3591	0.186	ng	91
22) Carbon Disulfide	9.93	76	19471	0.234	ng	95
23) trans-1,2-Dichloroethene	10.99	61	7192	0.226	ng	85
24) 1,1-Dichloroethane	11.30	63	8927	0.230	ng	93
25) Methyl tert-Butyl Ether	11.45	73	14779	0.216	ng	98
26) Vinyl Acetate	11.58	86	1274	0.289	ng	# 1
27) 2-Butanone (MEK)	11.97	72	1592	0.113	ng	# 1
28) cis-1,2-Dichloroethene	12.57	61	6876	0.224	ng	90
29) Diisopropyl Ether	12.94	87	4063	0.186	ng	# 86
30) Ethyl Acetate	12.95	61	1611	0.175	ng	96
31) n-Hexane	12.93	57	9734	0.228	ng	96

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.00	83	7826	0.202	ng	98
34) Tetrahydrofuran (THF)	13.64	72	3221	0.243	ng	# 69
35) Ethyl tert-Butyl Ether	13.75	87	5452	0.186	ng	# 80
36) 1,2-Dichloroethane	14.13	62	5503	0.177	ng	92
38) 1,1,1-Trichloroethane	14.53	97	7018	0.192	ng	98
39) Isopropyl Acetate	15.10	61	5649	0.390	ng	# 69
40) 1-Butanol	15.17	56	6339	0.257	ng	89
41) Benzene	15.22	78	21485	0.203	ng	96
42) Carbon Tetrachloride	15.45	117	6103	0.196	ng	91
43) Cyclohexane	15.65	84	16172	0.408	ng	86
44) tert-Amyl Methyl Ether	16.14	73	13999	0.200	ng	94
45) 1,2-Dichloropropane	16.43	63	4918	0.220	ng	99
46) Bromodichloromethane	16.69	83	5890	0.192	ng	95
47) Trichloroethene	16.77	130	5590	0.206	ng	98
48) 1,4-Dioxane	16.77	88	3080	0.173	ng	100
49) 2,2,4-Trimethylpentane...	16.85	57	23620	0.230	ng	93
50) Methyl Methacrylate	17.05	100	2700	0.272	ng	# 80
51) n-Heptane	17.20	71	5246	0.204	ng	91
52) cis-1,3-Dichloropropene	17.96	75	6183	0.166	ng	93
53) 4-Methyl-2-pentanone	18.03	58	3201	0.159	ng	70
54) trans-1,3-Dichloropropene	18.66	75	5739	0.175	ng	84
55) 1,1,2-Trichloroethane	18.90	97	4035	0.181	ng	90
58) Toluene	19.28	91	21913	0.187	ng	99
59) 2-Hexanone	19.64	43	6660	0.132	ng	82
60) Dibromochloromethane	19.82	129	4315	0.163	ng	96
61) 1,2-Dibromoethane	20.15	107	4442	0.163	ng	99
62) n-Butyl Acetate	20.43	43	8074	0.144	ng	86
63) n-Octane	20.55	57	4432	0.193	ng	95
64) Tetrachloroethene	20.75	166	5009	0.161	ng	96
65) Chlorobenzene	21.62	112	13897	0.188	ng	94
66) Ethylbenzene	22.09	91	22216	0.174	ng	99
67) m- & p-Xylenes	22.32	91	35625	0.338	ng	96
68) Bromoform	22.42	173	3262	0.139	ng	90
69) Styrene	22.78	104	12611	0.162	ng	95
70) o-Xylene	22.92	91	17434	0.166	ng	97
71) n-Nonane	23.17	43	10801	0.211	ng	93
72) 1,1,2,2-Tetrachloroethane	22.89	83	7219	0.165	ng	100
74) Cumene	23.66	105	22760	0.163	ng	98
75) alpha-Pinene	24.15	93	10911	0.164	ng	97
76) n-Propylbenzene	24.29	91	27992	0.167	ng	100
77) 3-Ethyltoluene	24.41	105	22341	0.169	ng	99
78) 4-Ethyltoluene	24.46	105	21950	0.166	ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	19048	0.173	ng	99

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	9096	0.148	ng	94
81) 2-Ethyltoluene	24.79	105	22138	0.160	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	18432	0.150	ng	99
83) n-Decane	25.15	57	11801	0.198	ng	93
84) Benzyl Chloride	25.22	91	12901	0.146	ng	92
85) 1,3-Dichlorobenzene	25.25	146	9910	0.153	ng	99
86) 1,4-Dichlorobenzene	25.33	146	10593	0.157	ng	99
87) sec-Butylbenzene	25.38	105	24768	0.161	ng	98
88) 4-Isopropyltoluene (p-...	25.56	119	22687	0.146	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	18683	0.149	ng	99
90) 1,2-Dichlorobenzene	25.74	146	9423	0.140	ng	99
91) d-Limonene	25.74	68	7469	0.153	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.27	157	2528	0.134	ng	79
93) n-Undecane	26.65	57	11857	0.194	ng	93
94) 1,2,4-Trichlorobenzene	27.79	180	7181	0.165	ng	94
95) Naphthalene	27.94	128	24854	0.164	ng	98
96) n-Dodecane	27.89	57	11636	0.179	ng	92
97) Hexachlorobutadiene	28.36	225	4076	0.164	ng	100
98) Cyclohexanone	22.54	55	6345	0.179	ng	# 80
99) tert-Butylbenzene	25.05	119	18711	0.150	ng	97
100) n-Butylbenzene	26.07	91	21106	0.172	ng	97

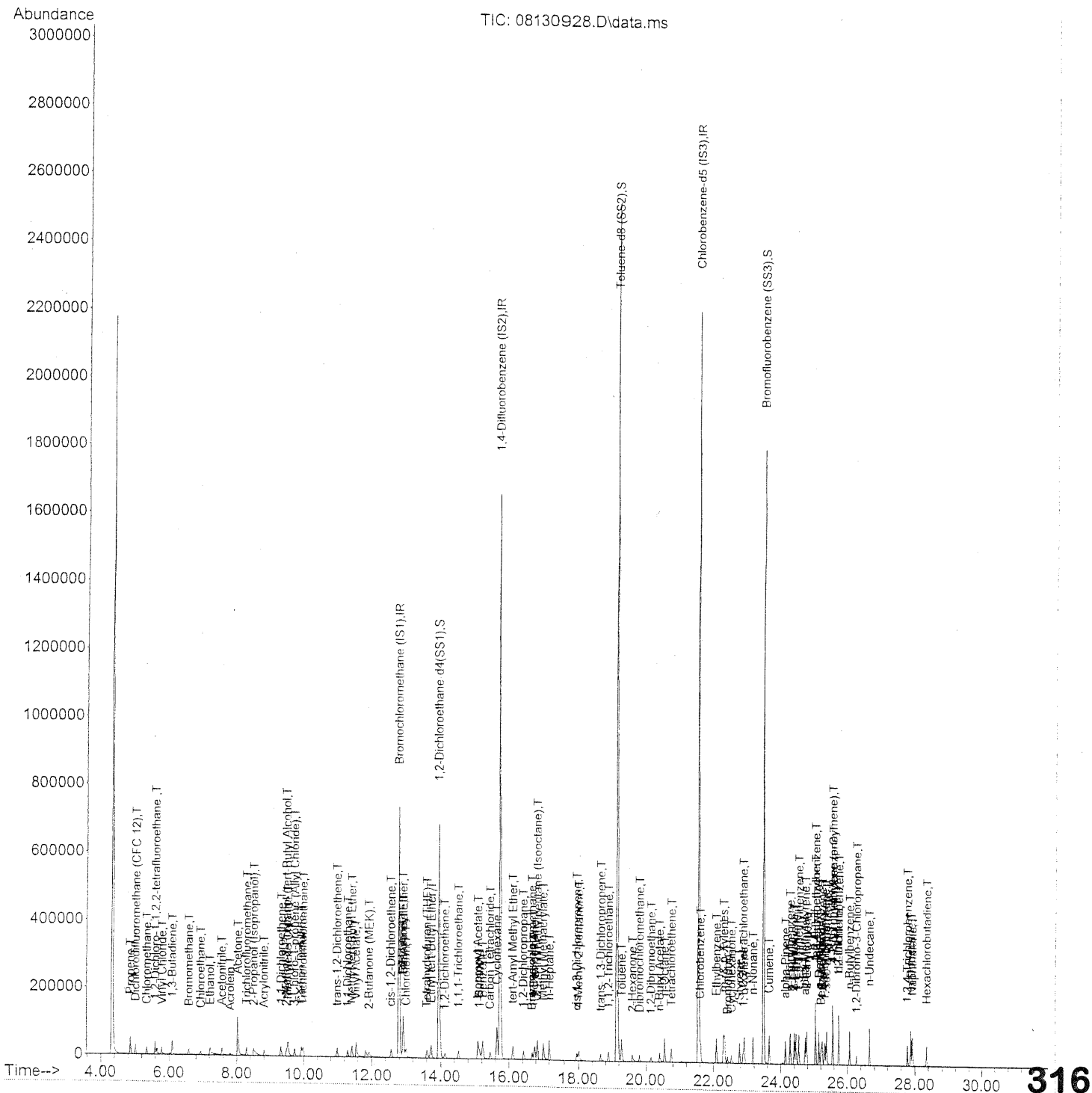
(#) = qualifier out of range (m) = manual integration (+) = signals summed

EM 8/14/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	387943	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1964748	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	963338	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	688763	25.095	ng	-0.03
Spiked Amount	25.000					
				Recovery	=	100.40%
57) Toluene-d8 (SS2)	19.14	98	2270133	23.819	ng	-0.02
Spiked Amount	25.000					
				Recovery	=	95.28%
73) Bromofluorobenzene (SS3)	23.49	174	649766	22.677	ng	0.00
Spiked Amount	25.000					
				Recovery	=	90.72%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	17385	0.710	ng	95
3) Dichlorodifluoromethan...	5.01	85	30715	0.629	ng	99
4) Chloromethane	5.35	50	27825	0.761	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	16234	0.590	ng	100
6) Vinyl Chloride	5.80	62	27174	0.697	ng	98
7) 1,3-Butadiene	6.09	54	22656	0.808	ng	97
8) Bromomethane	6.59	94	14465	0.629	ng	99
9) Chloroethane	6.94	64	13353	0.684	ng	98
10) Ethanol	7.23	45	60616	3.733	ng	99
11) Acetonitrile	7.56	41	31606	0.861	ng	97
12) Acrolein	7.80	56	8567	0.724	ng	99
13) Acetone	8.03	58	64613	3.498	ng	95
14) Trichlorofluoromethane	8.29	101	26206	0.616	ng	99
15) 2-Propanol (Isopropanol)	8.50	45	75804	1.560	ng	98
16) Acrylonitrile	8.80	53	18881	0.762	ng	99
17) 1,1-Dichloroethene	9.32	96	15523	0.716	ng	96
18) 2-Methyl-2-Propanol (t...	9.48	59	71705	1.310	ng	# 68
19) Methylene Chloride	9.52	84	16956	0.693	ng	88
20) 3-Chloro-1-propene (Al...	9.72	41	22154	0.839	ng	86
21) Trichlorotrifluoroethane	9.98	151	12159	0.630	ng	94
22) Carbon Disulfide	9.93	76	59708	0.717	ng	99
23) trans-1,2-Dichloroethene	10.98	61	23100	0.727	ng	91
24) 1,1-Dichloroethane	11.30	63	28384	0.733	ng	98
25) Methyl tert-Butyl Ether	11.42	73	45062	0.660	ng	96
26) Vinyl Acetate	11.56	86	8549	1.941	ng	# 31
27) 2-Butanone (MEK)	11.93	72	7703	0.547	ng	# 14
28) cis-1,2-Dichloroethene	12.56	61	22859	0.746	ng	91
29) Diisopropyl Ether	12.92	87	12722	0.581	ng	# 75
30) Ethyl Acetate	12.93	61	9081	0.984	ng	98
31) n-Hexane	12.92	57	30486	0.714	ng	99

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	25741	0.664	ng	99
34) Tetrahydrofuran (THF)	13.61	72	9662	0.728	ng	# 69
35) Ethyl tert-Butyl Ether	13.73	87	17600	0.600	ng	# 86
36) 1,2-Dichloroethane	14.13	62	18883	0.608	ng	98
38) 1,1,1-Trichloroethane	14.53	97	21567	0.598	ng	99
39) Isopropyl Acetate	15.09	61	18003	1.258	ng	# 76
40) 1-Butanol	15.14	56	24186	0.991	ng	# 5
41) Benzene	15.23	78	67490	0.644	ng	97
42) Carbon Tetrachloride	15.45	117	18399	0.598	ng	99
43) Cyclohexane	15.65	84	50652	1.293	ng	87
44) tert-Amyl Methyl Ether	16.12	73	43234	0.624	ng	98
45) 1,2-Dichloropropane	16.43	63	15929	0.721	ng	99
46) Bromodichloromethane	16.69	83	19513	0.644	ng	99
47) Trichloroethene	16.77	130	16351	0.611	ng	99
48) 1,4-Dioxane	16.75	88	11029	0.625	ng	88
49) 2,2,4-Trimethylpentane...	16.86	57	73776	0.727	ng	94
50) Methyl Methacrylate	17.03	100	10559	1.075	ng	90
51) n-Heptane	17.21	71	17902	0.706	ng	96
52) cis-1,3-Dichloropropene	17.95	75	21881	0.596	ng	96
53) 4-Methyl-2-pentanone	18.00	58	12377	0.624	ng	89
54) trans-1,3-Dichloropropene	18.66	75	20538	0.635	ng	94
55) 1,1,2-Trichloroethane	18.89	97	13863	0.630	ng	98
58) Toluene	19.28	91	66952	0.574	ng	99
59) 2-Hexanone	19.60	43	29124	0.580	ng	87
60) Dibromochloromethane	19.82	129	15336	0.585	ng	96
61) 1,2-Dibromoethane	20.15	107	14720	0.545	ng	97
62) n-Butyl Acetate	20.40	43	31166	0.559	ng	97
63) n-Octane	20.56	57	15118	0.663	ng	92
64) Tetrachloroethene	20.76	166	15982	0.518	ng	98
65) Chlorobenzene	21.62	112	41581	0.567	ng	100
66) Ethylbenzene	22.09	91	71057	0.560	ng	96
67) m- & p-Xylenes	22.31	91	109600	1.048	ng	99
68) Bromoform	22.42	173	11272	0.482	ng	99
69) Styrene	22.77	104	40825	0.529	ng	99
70) o-Xylene	22.92	91	56661	0.544	ng	99
71) n-Nonane	23.17	43	34926	0.686	ng	91
72) 1,1,2,2-Tetrachloroethane	22.89	83	24083	0.556	ng	98
74) Cumene	23.65	105	70945	0.513	ng	98
75) alpha-Pinene	24.15	93	33531	0.507	ng	99
76) n-Propylbenzene	24.28	91	88210	0.529	ng	99
77) 3-Ethyltoluene	24.40	105	69045	0.526	ng	98
78) 4-Ethyltoluene	24.46	105	70642	0.537	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	57676	0.527	ng	100

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

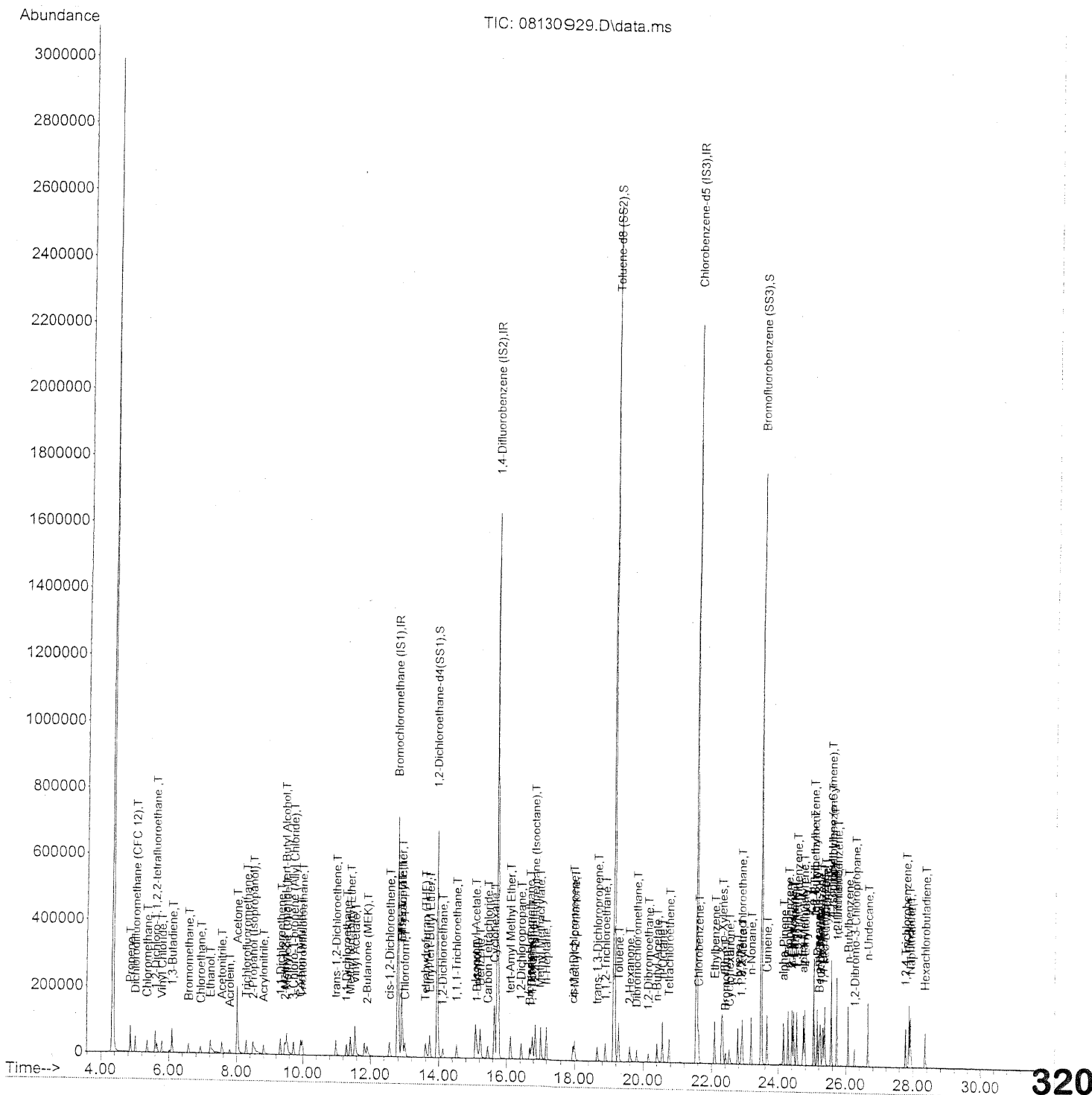
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	29532	0.482	ng	96
81) 2-Ethyltoluene	24.79	105	70128	0.510	ng	98
82) 1,2,4-Trimethylbenzene	25.05	105	56820	0.464	ng	97
83) n-Decane	25.15	57	35901	0.607	ng	95
84) Benzyl Chloride	25.22	91	42984	0.490	ng	98
85) 1,3-Dichlorobenzene	25.25	146	32555	0.507	ng	99
86) 1,4-Dichlorobenzene	25.33	146	33227	0.496	ng	100
87) sec-Butylbenzene	25.38	105	80257	0.524	ng	98
88) 4-Isopropyltoluene (p-...	25.56	119	71025	0.460	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	58655	0.470	ng	99
90) 1,2-Dichlorobenzene	25.75	146	30332	0.454	ng	100
91) d-Limonene	25.74	68	24087	0.495	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.27	157	9351	0.498	ng	89
93) n-Undecane	26.65	57	37313	0.616	ng	95
94) 1,2,4-Trichlorobenzene	27.79	180	22652	0.526	ng	99
95) Naphthalene	27.94	128	78387	0.522	ng	100
96) n-Dodecane	27.89	57	35864	0.554	ng	97
97) Hexachlorobutadiene	28.36	225	12566	0.510	ng	97
98) Cyclohexanone	22.53	55	15980	0.454	ng	92
99) tert-Butylbenzene	25.05	119	56558	0.457	ng	100
100) n-Butylbenzene	26.07	91	64485	0.529	ng	98

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

Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130929.D
Acq On : 14 Aug 2009 4:01
Operator : EM
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100904
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130929.D
 Acq On : 14 Aug 2009 4:01
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	385393	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1968754	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	961740	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	684680	25.111	ng	-0.03
Spiked Amount	25.000					
				Recovery	=	100.44%
57) Toluene-d8 (SS2)	19.14	98	2283397	23.998	ng	-0.02
Spiked Amount	25.000					
				Recovery	=	96.00%
73) Bromofluorobenzene (SS3)	23.49	174	645460	22.564	ng	0.00
Spiked Amount	25.000					
				Recovery	=	90.24%

Target Compounds

						Qvalue
2) Propene	4.86	42	29829	1.227	ng	97
3) Dichlorodifluoromethan...	5.01	85	52865	1.090	ng	99
4) Chloromethane	5.35	50	47868	1.317	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	28143	1.030	ng	98
6) Vinyl Chloride	5.80	62	46770	1.207	ng	98
7) 1,3-Butadiene	6.09	54	39034	1.402	ng	96
8) Bromomethane	6.59	94	24199	1.059	ng	99
9) Chloroethane	6.94	64	23852	1.231	ng	99
10) Ethanol	7.22	45	108628	6.734	ng	100
11) Acetonitrile	7.56	41	56154	1.539	ng	98
12) Acrolein	7.80	56	15400	1.309	ng	97
13) Acetone	8.01	58	112407	6.126	ng	94
14) Trichlorofluoromethane	8.29	101	45022	1.065	ng	99
15) 2-Propanol (Isopropanol)	8.48	45	135858	2.814	ng	99
16) Acrylonitrile	8.80	53	34799	1.414	ng	99
17) 1,1-Dichloroethene	9.32	96	26402	1.227	ng	95
18) 2-Methyl-2-Propanol (t...	9.46	59	127946	2.353	ng	95
19) Methylene Chloride	9.52	84	28073	1.155	ng	86
20) 3-Chloro-1-propene (Al...	9.72	41	39535	1.508	ng	89
21) Trichlorotrifluoroethane	9.98	151	20891	1.090	ng	95
22) Carbon Disulfide	9.93	76	102252	1.236	ng	98
23) trans-1,2-Dichloroethene	10.99	61	40695	1.289	ng	93
24) 1,1-Dichloroethane	11.30	63	48687	1.265	ng	98
25) Methyl tert-Butyl Ether	11.42	73	79993	1.179	ng	96
26) Vinyl Acetate	11.56	86	17582	4.017	ng	# 44
27) 2-Butanone (MEK)	11.91	72	15476	1.106	ng	# 70
28) cis-1,2-Dichloroethene	12.57	61	38880	1.276	ng	94
29) Diisopropyl Ether	12.91	87	23217	1.067	ng	# 79
30) Ethyl Acetate	12.91	61	17295	1.887	ng	98
31) n-Hexane	12.92	57	51322	1.211	ng	98

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130929.D
 Acq On : 14 Aug 2009 4:01
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.01	83	44169	1.147	ng	99
34) Tetrahydrofuran (THF)	13.61	72	18493	1.402	ng	# 78
35) Ethyl tert-Butyl Ether	13.73	87	32059	1.099	ng	# 88
36) 1,2-Dichloroethane	14.13	62	33602	1.089	ng	100
38) 1,1,1-Trichloroethane	14.53	97	38262	1.060	ng	99
39) Isopropyl Acetate	15.09	61	33761	2.355	ng	# 85
40) 1-Butanol	15.13	56	47102	1.925	ng	# 74
41) Benzene	15.23	78	113746	1.083	ng	99
42) Carbon Tetrachloride	15.46	117	32803	1.064	ng	98
43) Cyclohexane	15.65	84	88044	2.243	ng	87
44) tert-Amyl Methyl Ether	16.11	73	76135	1.097	ng	97
45) 1,2-Dichloropropane	16.43	63	28251	1.276	ng	100
46) Bromodichloromethane	16.69	83	33986	1.120	ng	99
47) Trichloroethene	16.77	130	28512	1.063	ng	100
48) 1,4-Dioxane	16.74	88	20845	1.180	ng	92
49) 2,2,4-Trimethylpentane...	16.85	57	130464	1.282	ng	93
50) Methyl Methacrylate	17.02	100	20121	2.044	ng	# 88
51) n-Heptane	17.20	71	31494	1.239	ng	96
52) cis-1,3-Dichloropropene	17.95	75	38638	1.049	ng	99
53) 4-Methyl-2-pentanone	18.00	58	24206	1.218	ng	89
54) trans-1,3-Dichloropropene	18.65	75	38043	1.174	ng	99
55) 1,1,2-Trichloroethane	18.89	97	24731	1.121	ng	97
58) Toluene	19.28	91	119238	1.024	ng	99
59) 2-Hexanone	19.60	43	55664	1.111	ng	92
60) Dibromochloromethane	19.82	129	27040	1.032	ng	99
61) 1,2-Dibromoethane	20.15	107	26630	0.987	ng	99
62) n-Butyl Acetate	20.40	43	61529	1.105	ng	98
63) n-Octane	20.56	57	26993	1.186	ng	92
64) Tetrachloroethene	20.75	166	28187	0.915	ng	99
65) Chlorobenzene	21.62	112	73763	1.007	ng	100
66) Ethylbenzene	22.09	91	127246	1.005	ng	97
67) m- & p-Xylenes	22.32	91	194401	1.861	ng	99
68) Bromoform	22.41	173	20518	0.879	ng	99
69) Styrene	22.77	104	73446	0.954	ng	100
70) o-Xylene	22.92	91	100172	0.963	ng	98
71) n-Nonane	23.17	43	62203	1.225	ng	92
72) 1,1,2,2-Tetrachloroethane	22.89	83	42899	0.991	ng	100
74) Cumene	23.65	105	125520	0.908	ng	97
75) alpha-Pinene	24.15	93	59580	0.902	ng	99
76) n-Propylbenzene	24.28	91	157275	0.945	ng	98
77) 3-Ethyltoluene	24.40	105	123089	0.940	ng	99
78) 4-Ethyltoluene	24.46	105	124771	0.950	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	103623	0.948	ng	99

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130929.D
 Acq On : 14 Aug 2009 4:01
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

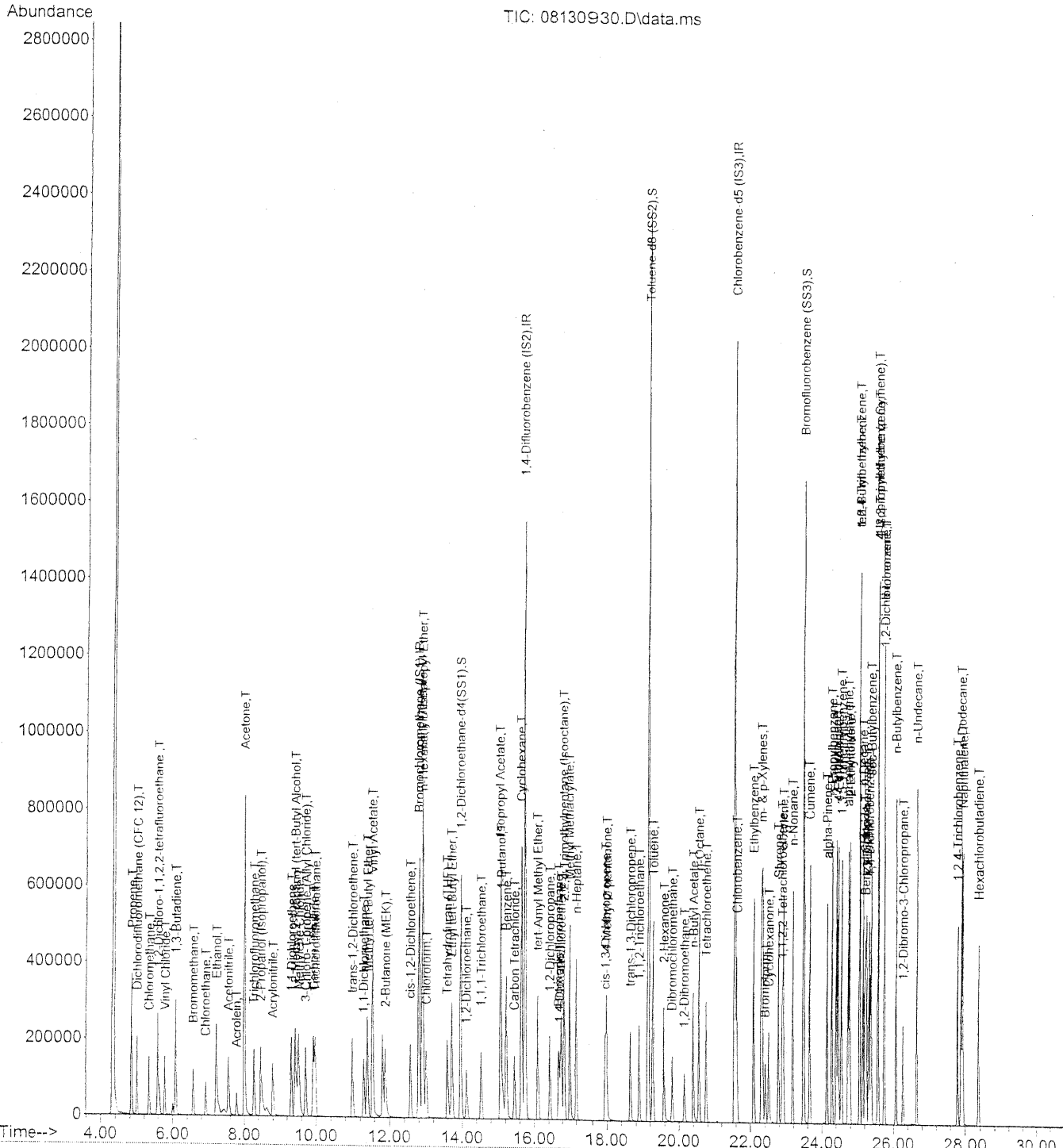
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	53658	0.878	ng	96
81) 2-Ethyltoluene	24.79	105	124584	0.908	ng	97
82) 1,2,4-Trimethylbenzene	25.05	105	102293	0.837	ng	100
83) n-Decane	25.15	57	64455	1.092	ng	94
84) Benzyl Chloride	25.21	91	81497	0.930	ng	98
85) 1,3-Dichlorobenzene	25.25	146	56441	0.880	ng	100
86) 1,4-Dichlorobenzene	25.33	146	59032	0.883	ng	98
87) sec-Butylbenzene	25.38	105	141772	0.928	ng	98
88) 4-Isopropyltoluene (p-...	25.56	119	127195	0.826	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	105475	0.847	ng	99
90) 1,2-Dichlorobenzene	25.74	146	53268	0.799	ng	100
91) d-Limonene	25.74	68	42966	0.885	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.27	157	16960	0.906	ng	91
93) n-Undecane	26.65	57	66615	1.102	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	40513	0.942	ng	100
95) Naphthalene	27.94	128	143580	0.957	ng	99
96) n-Dodecane	27.89	57	67663	1.047	ng	94
97) Hexachlorobutadiene	28.36	225	22500	0.914	ng	97
98) Cyclohexanone	22.52	55	30464	0.867	ng	93
99) tert-Butylbenzene	25.05	119	102193	0.827	ng	100
100) n-Butylbenzene	26.06	91	115342	0.948	ng	99

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

Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	356661	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1839686	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	890260	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.96	65	631936	25.044	ng	-0.03
Spiked Amount	25.000					
			Recovery	=	100.16%	
57) Toluene-d8 (SS2)	19.15	98	2108383	23.938	ng	-0.01
Spiked Amount	25.000					
			Recovery	=	95.76%	
73) Bromofluorobenzene (SS3)	23.49	174	597126	22.551	ng	0.00
Spiked Amount	25.000					
			Recovery	=	90.20%	

Target Compounds

						Qvalue
2) Propene	4.84	42	170359	7.571	ng	96
3) Dichlorodifluoromethan...	5.00	85	230084	5.124	ng	99
4) Chloromethane	5.33	50	205078	6.099	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	119794	4.737	ng	99
6) Vinyl Chloride	5.79	62	201673	5.626	ng	98
7) 1,3-Butadiene	6.08	54	174352	6.764	ng	98
8) Bromomethane	6.57	94	105980	5.012	ng	99
9) Chloroethane	6.92	64	101343	5.650	ng	100
10) Ethanol	7.22	45	503955m	33.755	ng	
11) Acetonitrile	7.55	41	248065	7.348	ng	100
12) Acrolein	7.78	56	72285	6.641	ng	98
13) Acetone	8.00	58	487378	28.701	ng	91
14) Trichlorofluoromethane	8.28	101	194921	4.983	ng	99
15) 2-Propanol (Isopropanol)	8.46	45	476882m	10.673	ng	
16) Acrylonitrile	8.79	53	169954	7.460	ng	97
17) 1,1-Dichloroethene	9.32	96	116215	5.835	ng	97
18) 2-Methyl-2-Propanol (t...	9.43	59	580085	11.527	ng	96
19) Methylene Chloride	9.53	84	121460	5.402	ng	88
20) 3-Chloro-1-propene (Al...	9.72	41	183785	7.574	ng	88
21) Trichlorotrifluoroethane	9.98	151	93260	5.256	ng	96
22) Carbon Disulfide	9.93	76	452470	5.908	ng	98
23) trans-1,2-Dichloroethene	10.99	61	180824	6.190	ng	92
24) 1,1-Dichloroethane	11.30	63	216980	6.093	ng	99
25) Methyl tert-Butyl Ether	11.40	73	365953	5.827	ng	96
26) Vinyl Acetate	11.54	86	100963	24.928	ng	# 65
27) 2-Butanone (MEK)	11.89	72	83061	6.413	ng	# 77
28) cis-1,2-Dichloroethene	12.57	61	171418	6.081	ng	93
29) Diisopropyl Ether	12.90	87	101448	5.039	ng	# 66
30) Ethyl Acetate	12.90	61	91320	10.764	ng	99
31) n-Hexane	12.92	57	224482	5.722	ng	99

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.01	83	192914	5.415	ng	99
34) Tetrahydrofuran (THF)	13.58	72	83814	6.867	ng	# 86
35) Ethyl tert-Butyl Ether	13.71	87	142829	5.293	ng	# 86
36) 1,2-Dichloroethane	14.13	62	150902	5.284	ng	99
38) 1,1,1-Trichloroethane	14.53	97	168717	5.000	ng	99
39) Isopropyl Acetate	15.06	61	158534	11.834	ng	# 79
40) 1-Butanol	15.09	56	248323	10.863	ng	81
41) Benzene	15.23	78	489432	4.989	ng	98
42) Carbon Tetrachloride	15.46	117	142799	4.955	ng	100
43) Cyclohexane	15.65	84	392518	10.699	ng	89
44) tert-Amyl Methyl Ether	16.10	73	352122	5.430	ng	98
45) 1,2-Dichloropropane	16.43	63	124973	6.043	ng	98
46) Bromodichloromethane	16.69	83	155746	5.492	ng	98
47) Trichloroethene	16.77	130	122841	4.899	ng	99
48) 1,4-Dioxane	16.72	88	98401	5.959	ng	91
49) 2,2,4-Trimethylpentane...	16.85	57	566857	5.963	ng	93
50) Methyl Methacrylate	17.02	100	99872	10.855	ng	90
51) n-Heptane	17.21	71	134268	5.652	ng	95
52) cis-1,3-Dichloropropene	17.95	75	186847	5.431	ng	98
53) 4-Methyl-2-pentanone	17.99	58	119233	6.420	ng	95
54) trans-1,3-Dichloropropene	18.64	75	186516	6.159	ng	98
55) 1,1,2-Trichloroethane	18.88	97	112218	5.445	ng	99
58) Toluene	19.28	91	521746	4.839	ng	100
59) 2-Hexanone	19.58	43	278990	6.017	ng	99
60) Dibromochloromethane	19.82	129	125108	5.160	ng	99
61) 1,2-Dibromoethane	20.15	107	123637	4.951	ng	100
62) n-Butyl Acetate	20.39	43	322004	6.246	ng	98
63) n-Octane	20.56	57	120268	5.709	ng	91
64) Tetrachloroethene	20.75	166	122324	4.291	ng	100
65) Chlorobenzene	21.62	112	321850	4.745	ng	99
66) Ethylbenzene	22.09	91	567585	4.841	ng	98
67) m- & p-Xylenes	22.32	91	871075	9.010	ng	100
68) Bromoform	22.41	173	97277	4.503	ng	100
69) Styrene	22.77	104	344065	4.826	ng	99
70) o-Xylene	22.92	91	444727	4.618	ng	99
71) n-Nonane	23.17	43	272588	5.797	ng	93
72) 1,1,2,2-Tetrachloroethane	22.88	83	199967	4.992	ng	100
74) Cumene	23.65	105	562278	4.396	ng	98
75) alpha-Pinene	24.15	93	276329	4.521	ng	99
76) n-Propylbenzene	24.28	91	700875	4.549	ng	99
77) 3-Ethyltoluene	24.40	105	559902	4.619	ng	98
78) 4-Ethyltoluene	24.46	105	553680	4.552	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	455198	4.500	ng	100

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	253262	4.476	ng	99
81) 2-Ethyltoluene	24.79	105	552087	4.348	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	462116	4.084	ng	99
83) n-Decane	25.15	57	285891	5.231	ng	94
84) Benzyl Chloride	25.21	91	398762	4.917	ng	98
85) 1,3-Dichlorobenzene	25.25	146	251311	4.232	ng	100
86) 1,4-Dichlorobenzene	25.32	146	256766	4.150	ng	100
87) sec-Butylbenzene	25.38	105	629377	4.449	ng	99
88) 4-Isopropyltoluene (p-...	25.56	119	574902	4.031	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	470067	4.080	ng	98
90) 1,2-Dichlorobenzene	25.75	146	241180	3.907	ng	100
91) d-Limonene	25.74	68	203082	4.518	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.26	157	84105	4.852	ng	96
93) n-Undecane	26.65	57	302353	5.403	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	185058	4.646	ng	99
95) Naphthalene	27.94	128	655899	4.724	ng	99
96) n-Dodecane	27.89	57	311207	5.204	ng	96
97) Hexachlorobutadiene	28.36	225	101578	4.458	ng	98
98) Cyclohexanone	22.51	55	142237	4.374	ng	94
99) tert-Butylbenzene	25.05	119	454889	3.978	ng	99
100) n-Butylbenzene	26.06	91	521247	4.628	ng	99

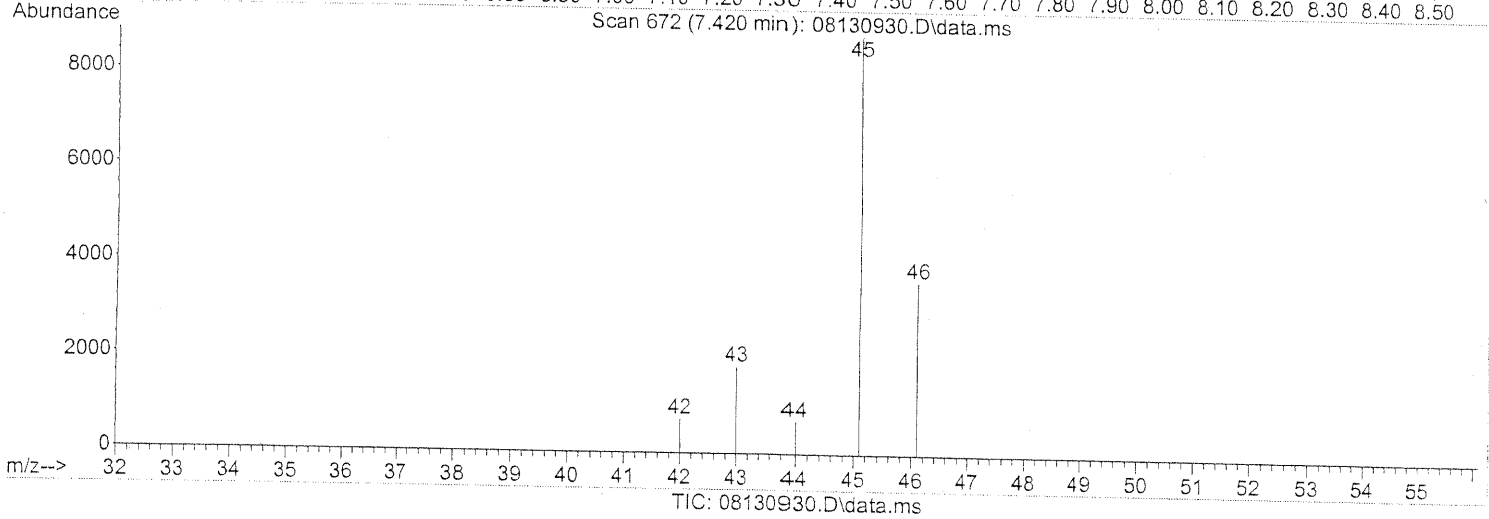
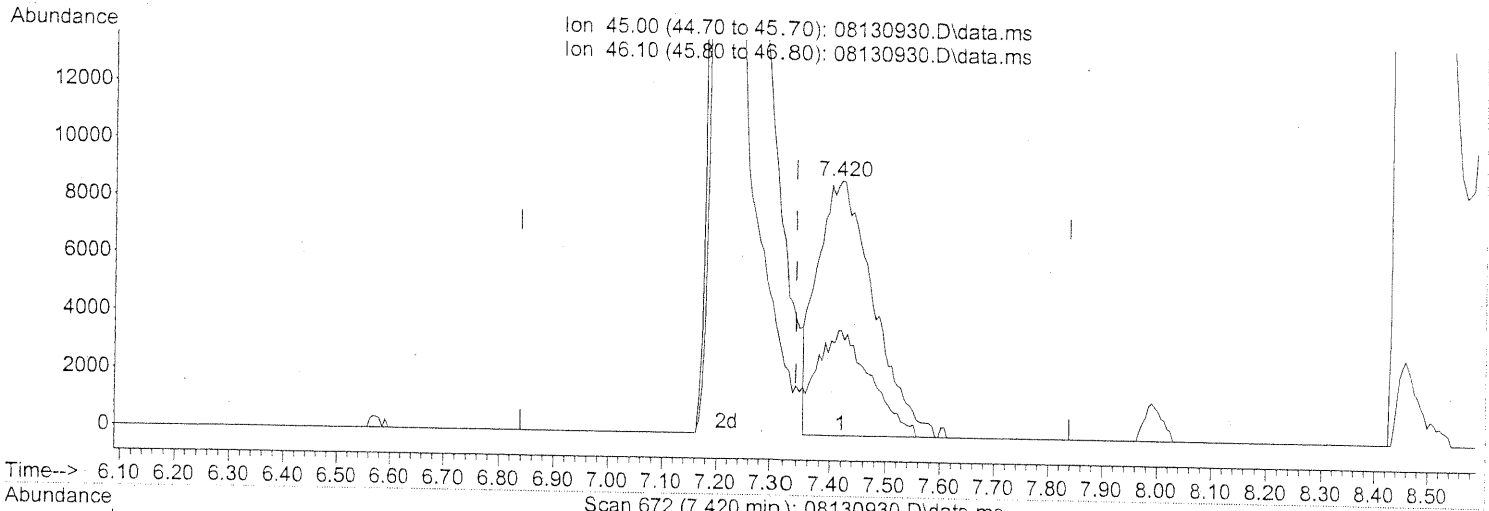
(#) = qualifier out of range (m) = manual integration (+) = signals summed

EM 8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130930.D
Acq On : 14 Aug 2009 4:43
Operator : EM
Sample : 5ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100904
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)
7.420min (+0.080) 4.20ng
response 62719

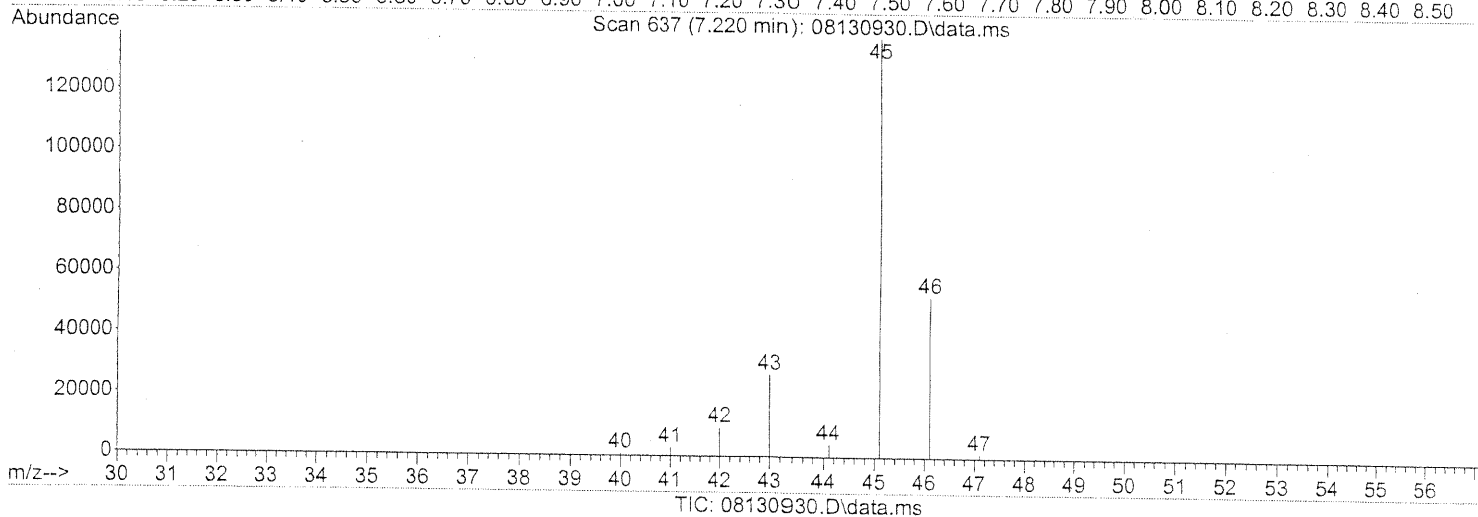
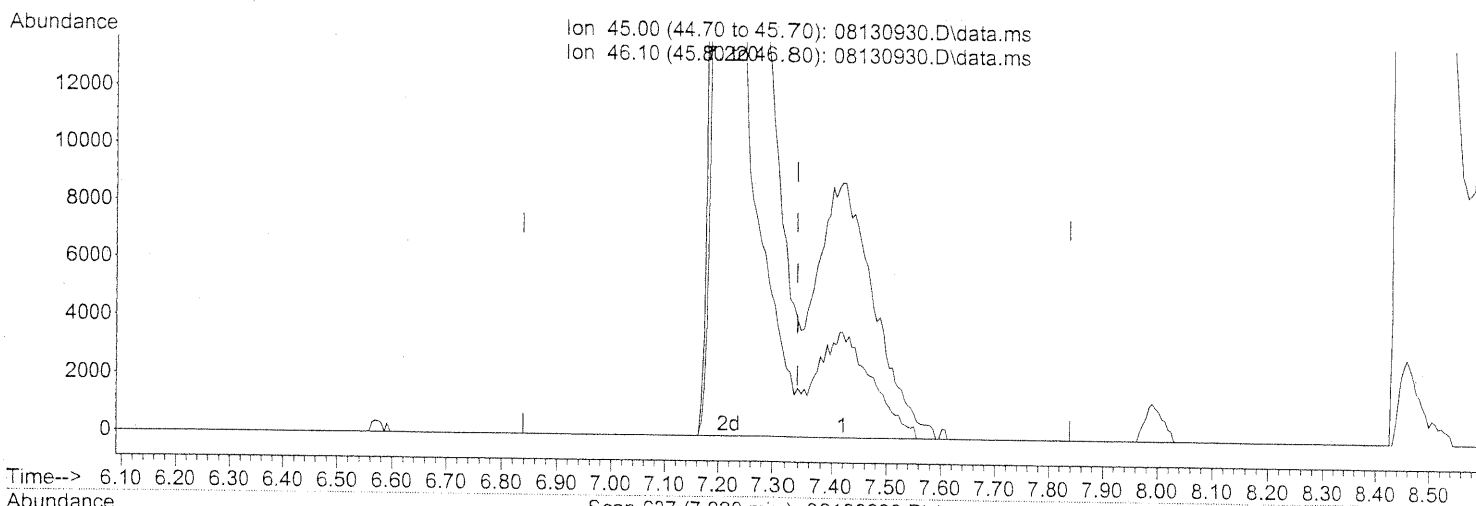
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.29
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130930.D
Acq On : 14 Aug 2009 4:43
Operator : EM
Sample : 5ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100904
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)
7.220min (-0.120) 33.76ng m
response 503955

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	4.77#
0.00	0.00	0.00
0.00	0.00	0.00

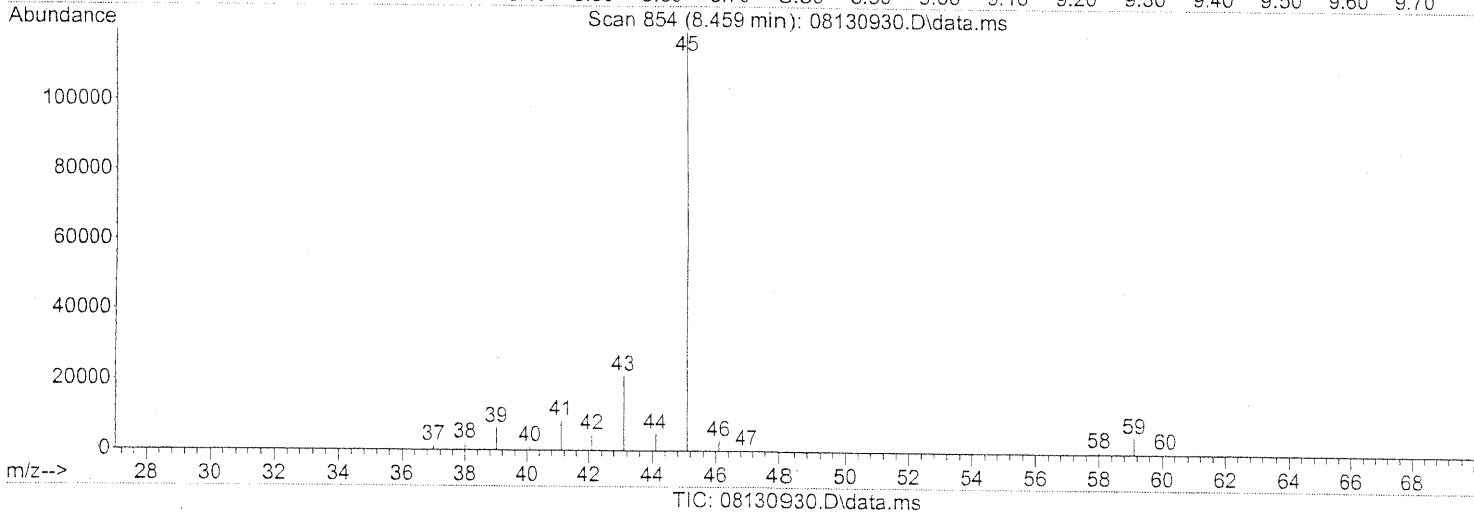
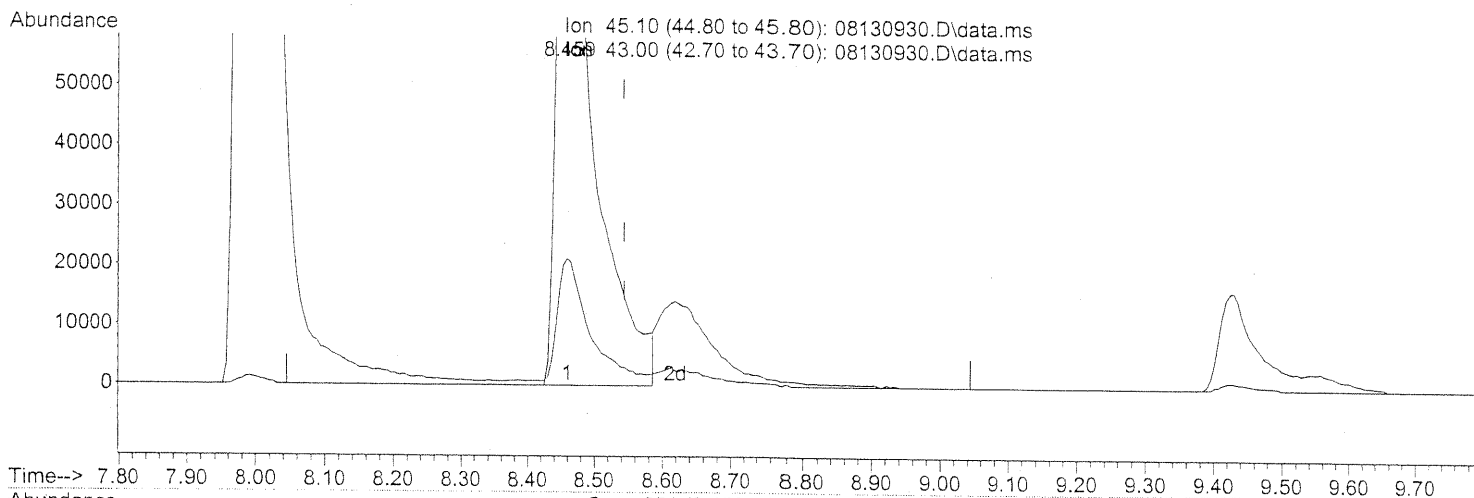
SP -> IC
Em 8/14/09

DA 8/15/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.459min (-0.086) 8.88ng

response 396677

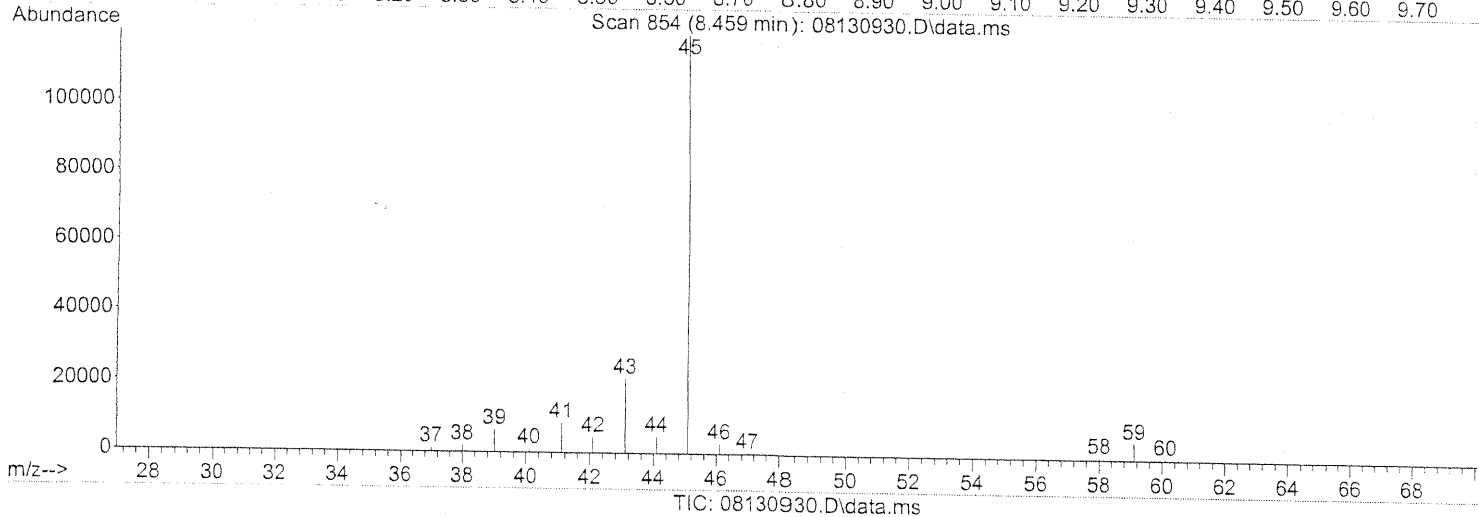
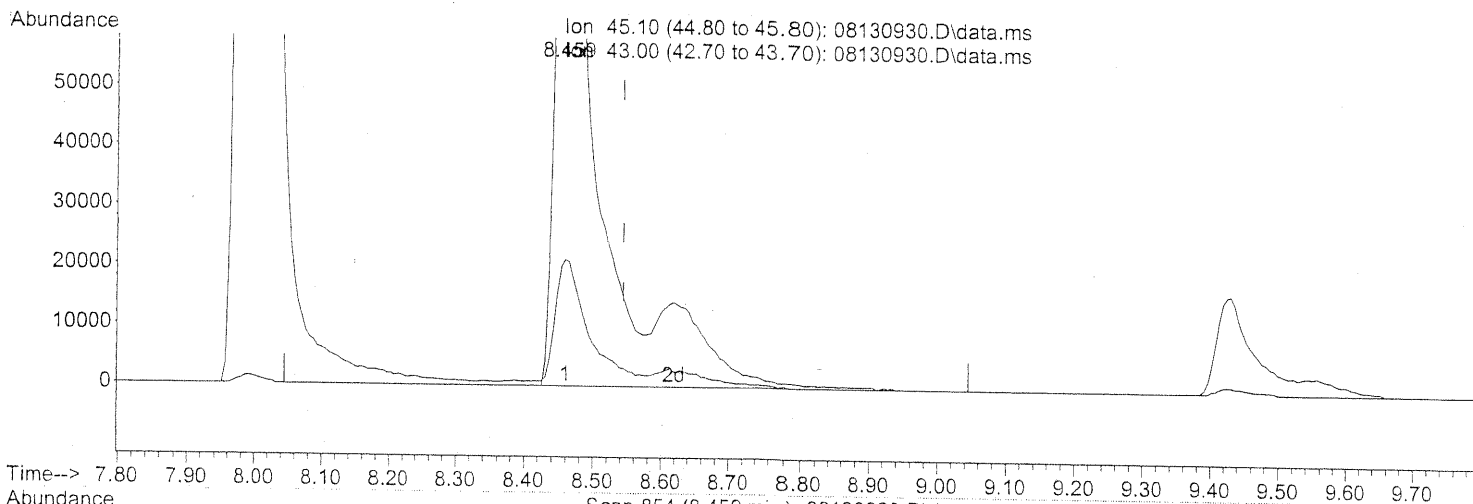
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.32
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.459min (-0.086) 10.67ng m

response 476882

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	14.41
0.00	0.00	0.00
0.00	0.00	0.00

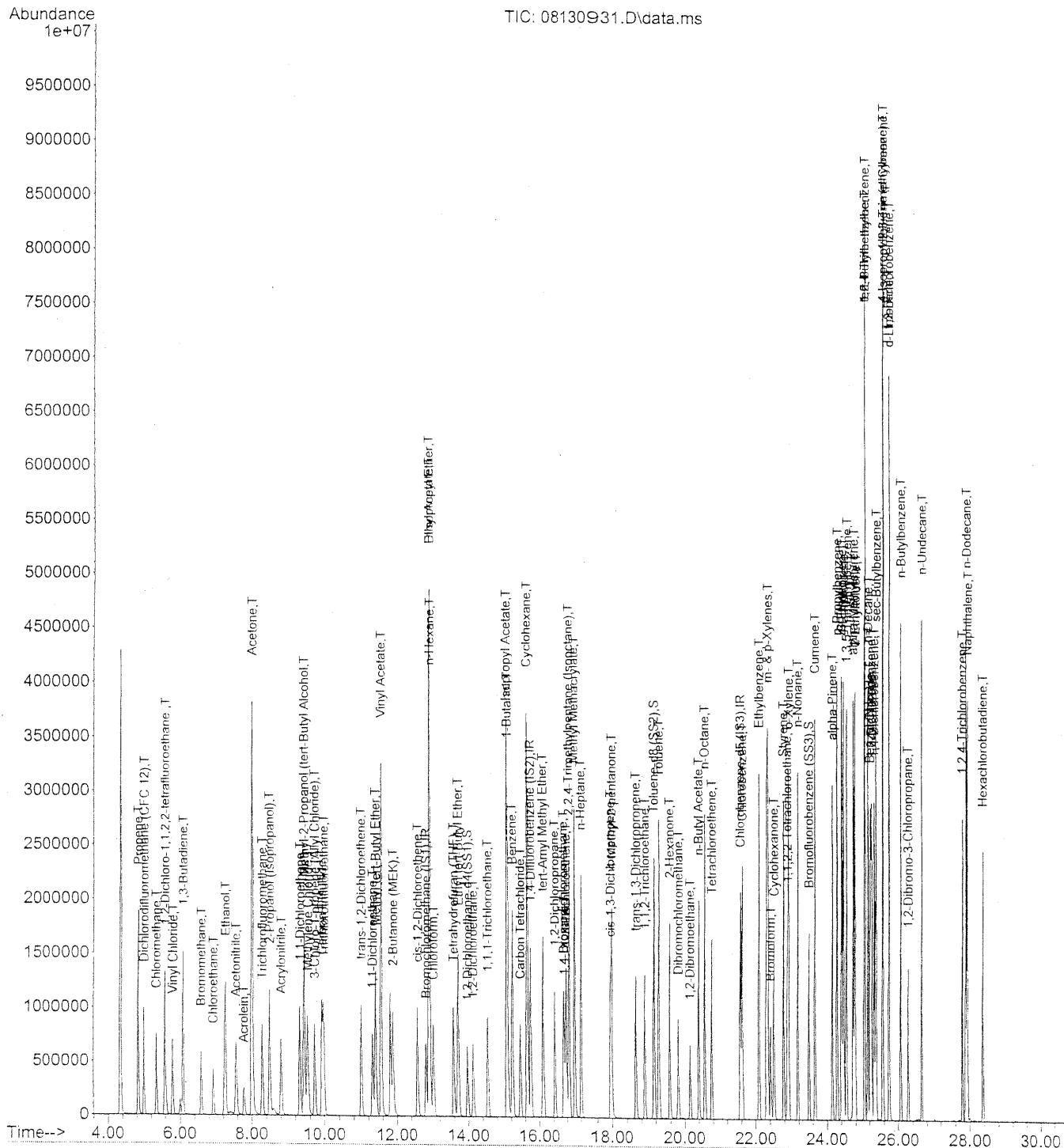
PT → LC
 em 8/14/09

em 8/15/09

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Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.82	130	364116	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1865895	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	897905	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4 (...)	13.97	65	639555	24.827	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.32%	
57) Toluene-d8 (SS2)	19.15	98	2134862	24.032	ng	-0.01
Spiked Amount	25.000		Recovery	=	96.12%	
73) Bromofluorobenzene (SS3)	23.49	174	608116	22.770	ng	0.00
Spiked Amount	25.000		Recovery	=	91.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	893813	38.911	ng	96
3) Dichlorodifluoromethan...	5.00	85	1122799	24.492	ng	99
4) Chloromethane	5.33	50	1060306	30.886	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	614382	23.795	ng	100
6) Vinyl Chloride	5.80	62	1011049	27.626	ng	99
7) 1,3-Butadiene	6.08	54	905992	34.431	ng	99
8) Bromomethane	6.58	94	552570	25.596	ng	100
9) Chloroethane	6.93	64	511522	27.936	ng	100
10) Ethanol	7.26	45	2645495m	173.570	ng	
11) Acetonitrile	7.57	41	1267304	36.772	ng	98
12) Acrolein	7.79	56	380570	34.250	ng	98
13) Acetone	8.01	58	2533900	146.162	ng	88
14) Trichlorofluoromethane	8.29	101	1008004	25.243	ng	98
15) 2-Propanol (Isopropanol)	8.48	45	2453135m	53.777	ng	
16) Acrylonitrile	8.80	53	893242	38.407	ng	98
17) 1,1-Dichloroethene	9.33	96	601910	29.600	ng	97
18) 2-Methyl-2-Propanol (t...	9.44	59	3134377	61.010	ng	97
19) Methylene Chloride	9.54	84	621124	27.058	ng	89
20) 3-Chloro-1-propene (Al...	9.73	41	978578	39.503	ng	90
21) Trichlorotrifluoroethane	9.98	151	488676	26.977	ng	97
22) Carbon Disulfide	9.93	76	2326514	29.756	ng	99
23) trans-1,2-Dichloroethene	11.00	61	944327	31.664	ng	92
24) 1,1-Dichloroethane	11.31	63	1127620	31.017	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1913053	29.838	ng	96
26) Vinyl Acetate	11.56	86	656008	158.651	ng	# 71
27) 2-Butanone (MEK)	11.89	72	449156	33.967	ng	# 85
28) cis-1,2-Dichloroethene	12.58	61	894671	31.087	ng	93
29) Diisopropyl Ether	12.91	87	549290	26.727	ng	# 69
30) Ethyl Acetate	12.91	61	522358	60.309	ng	97
31) n-Hexane	12.93	57	1172996	29.289	ng	97

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.03	83	998779	27.462	ng	100
34) Tetrahydrofuran (THF)	13.58	72	424555	34.073	ng	# 88
35) Ethyl tert-Butyl Ether	13.71	87	757840	27.508	ng	# 88
36) 1,2-Dichloroethane	14.13	62	783128	26.860	ng	99
38) 1,1,1-Trichloroethane	14.54	97	885515	25.875	ng	99
39) Isopropyl Acetate	15.07	61	888654	65.401	ng	# 83
40) 1-Butanol	15.09	56	1501433	64.760	ng	88
41) Benzene	15.23	78	2534149	25.468	ng	98
42) Carbon Tetrachloride	15.46	117	761579	26.057	ng	99
43) Cyclohexane	15.66	84	2072518	55.700	ng	89
44) tert-Amyl Methyl Ether	16.10	73	1859147	28.269	ng	99
45) 1,2-Dichloropropane	16.43	63	658884	31.411	ng	99
46) Bromodichloromethane	16.70	83	830347	28.871	ng	99
47) Trichloroethene	16.77	130	648588	25.505	ng	100
48) 1,4-Dioxane	16.72	88	543245	32.435	ng	89
49) 2,2,4-Trimethylpentane...	16.86	57	2947745	30.571	ng	93
50) Methyl Methacrylate	17.02	100	558743	59.877	ng	92
51) n-Heptane	17.21	71	706671	29.331	ng	94
52) cis-1,3-Dichloropropene	17.95	75	1004919	28.799	ng	100
53) 4-Methyl-2-pentanone	17.99	58	673431	35.750	ng	95
54) trans-1,3-Dichloropropene	18.64	75	1018443	33.158	ng	100
55) 1,1,2-Trichloroethane	18.89	97	592726	28.354	ng	99
58) Toluene	19.28	91	2739340	25.191	ng	100
59) 2-Hexanone	19.58	43	1588763	33.971	ng	99
60) Dibromochloromethane	19.82	129	680507	27.831	ng	99
61) 1,2-Dibromoethane	20.15	107	663705	26.350	ng	99
62) n-Butyl Acetate	20.39	43	1860228	35.779	ng	99
63) n-Octane	20.56	57	626246	29.472	ng	92
64) Tetrachloroethene	20.76	166	654987	22.781	ng	99
65) Chlorobenzene	21.62	112	1683217	24.606	ng	100
66) Ethylbenzene	22.09	91	2994707	25.325	ng	99
67) m- & p-Xylenes	22.33	91	4647270	47.659	ng	100
68) Bromoform	22.42	173	548438	25.169	ng	100
69) Styrene	22.77	104	1863220	25.911	ng	100
70) o-Xylene	22.92	91	2385962	24.562	ng	99
71) n-Nonane	23.18	43	1438625	30.334	ng	93
72) 1,1,2,2-Tetrachloroethane	22.89	83	1078529	26.696	ng	100
74) Cumene	23.66	105	3011318	23.343	ng	99
75) alpha-Pinene	24.15	93	1480597	24.016	ng	99
76) n-Propylbenzene	24.28	91	3744994	24.101	ng	99
77) 3-Ethyltoluene	24.41	105	3058348	25.017	ng	99
78) 4-Ethyltoluene	24.46	105	2932516	23.903	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	2446240	23.977	ng	100

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Tom 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1393210	24.411	ng	99
81) 2-Ethyltoluene	24.79	105	2942387	22.975	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2623418	22.990	ng	99
83) n-Decane	25.16	57	1509811	27.388	ng	95
84) Benzyl Chloride	25.22	91	2320976	28.376	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1356990	22.655	ng	99
86) 1,4-Dichlorobenzene	25.33	146	1381988	22.145	ng	100
87) sec-Butylbenzene	25.38	105	3356026	23.524	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	3219478	22.384	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2662217	22.911	ng	98
90) 1,2-Dichlorobenzene	25.74	146	1327033	21.315	ng	100
91) d-Limonene	25.74	68	1139413	25.133	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.27	157	460372	26.331	ng	95
93) n-Undecane	26.65	57	1601142	28.367	ng	97
94) 1,2,4-Trichlorobenzene	27.79	180	978833	24.366	ng	99
95) Naphthalene	27.94	128	3428876	24.487	ng	100
96) n-Dodecane	27.89	57	1635236	27.111	ng	96
97) Hexachlorobutadiene	28.36	225	549265	23.899	ng	99
98) Cyclohexanone	22.51	55	919787	28.042	ng	94
99) tert-Butylbenzene	25.05	119	2572033	22.302	ng	100
100) n-Butylbenzene	26.07	91	2798242	24.631	ng	100

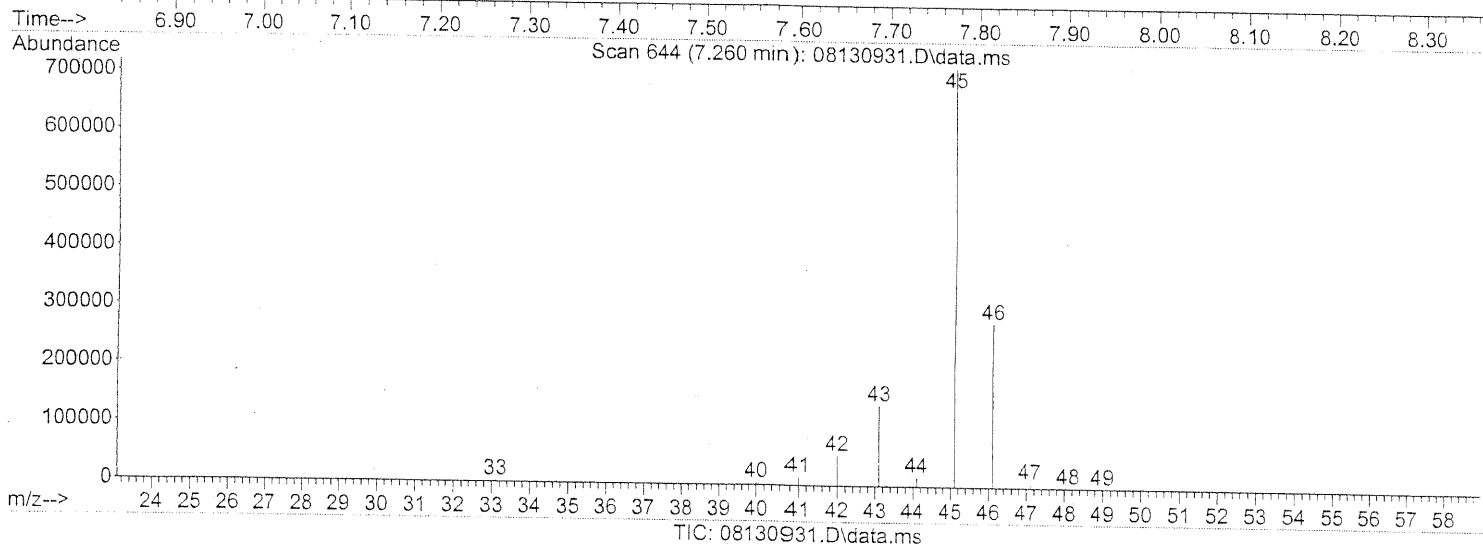
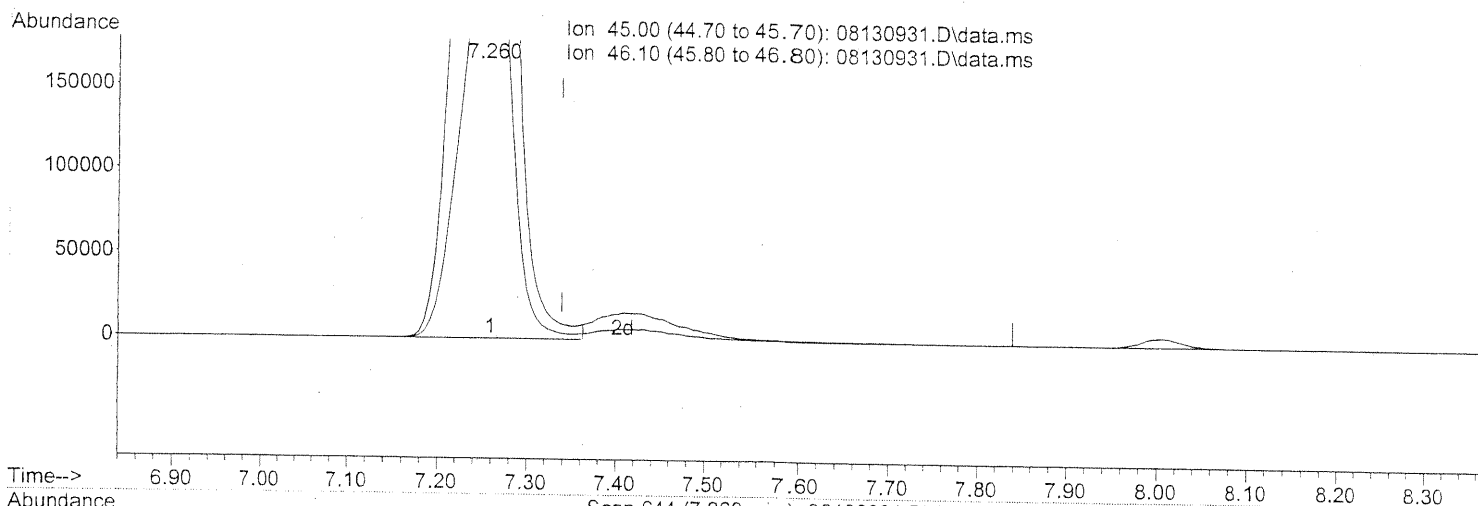
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Em 8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.260min (-0.080) 166.43ng

response 2536739

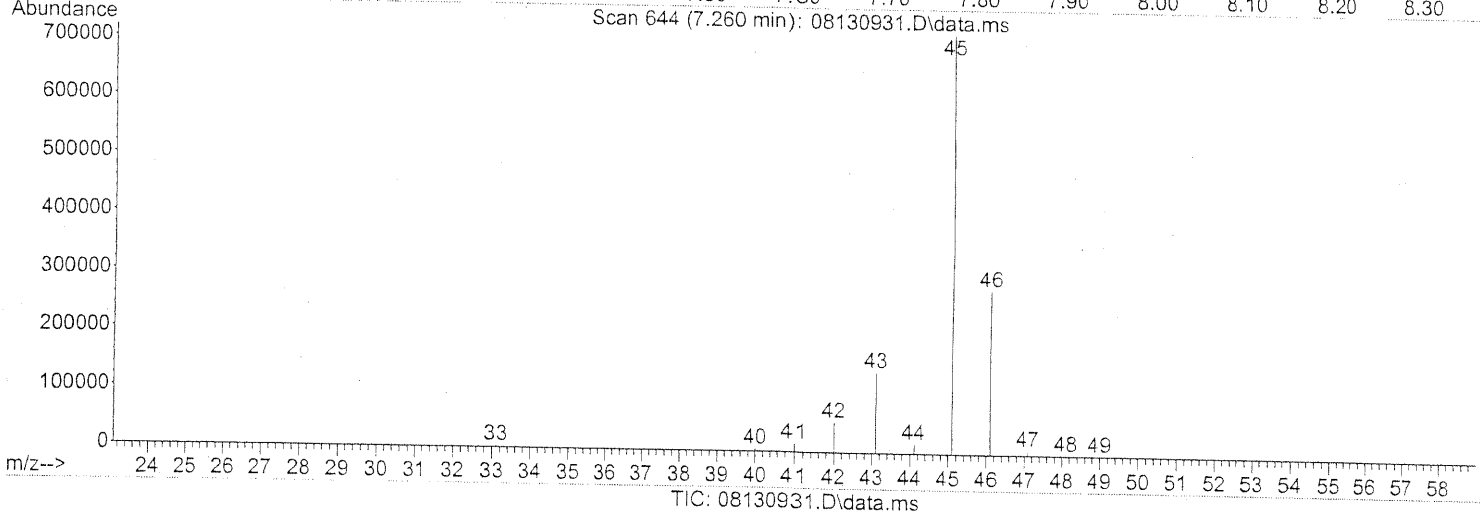
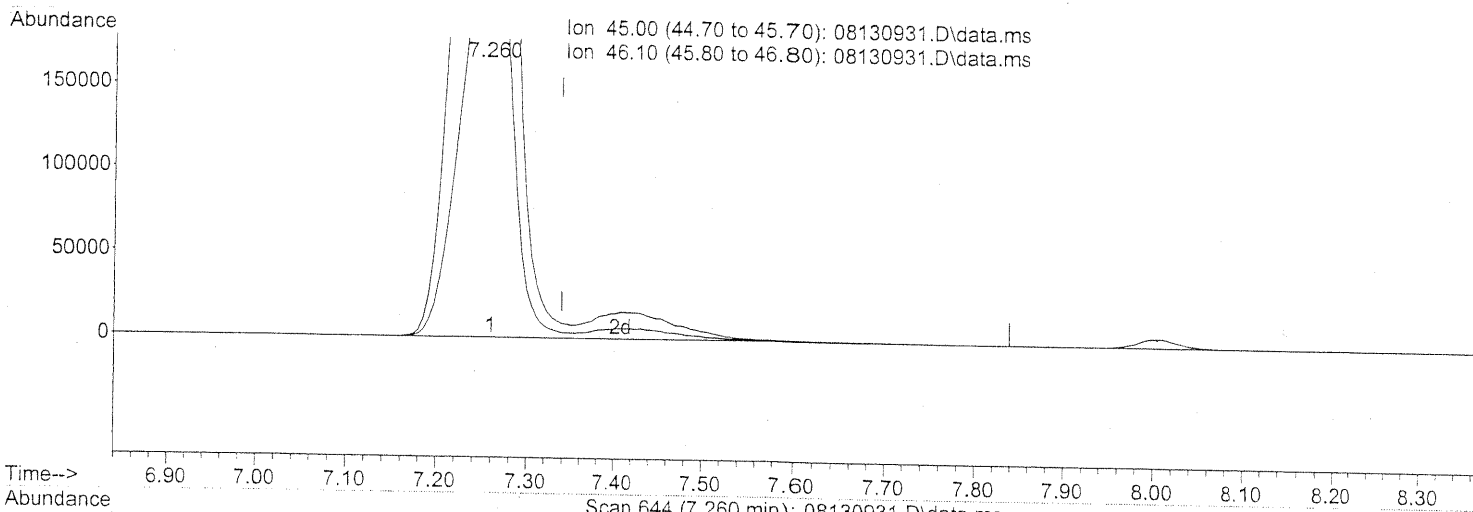
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.260min (-0.080) 173.57ng m

response 2645495

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.49
0.00	0.00	0.00
0.00	0.00	0.00

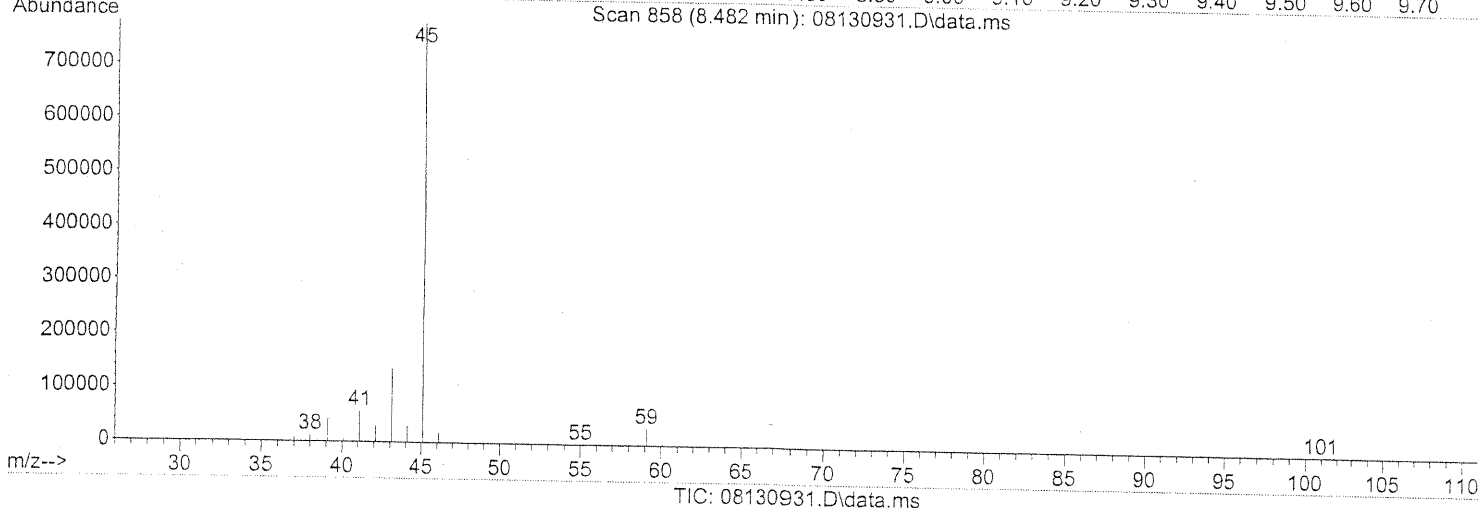
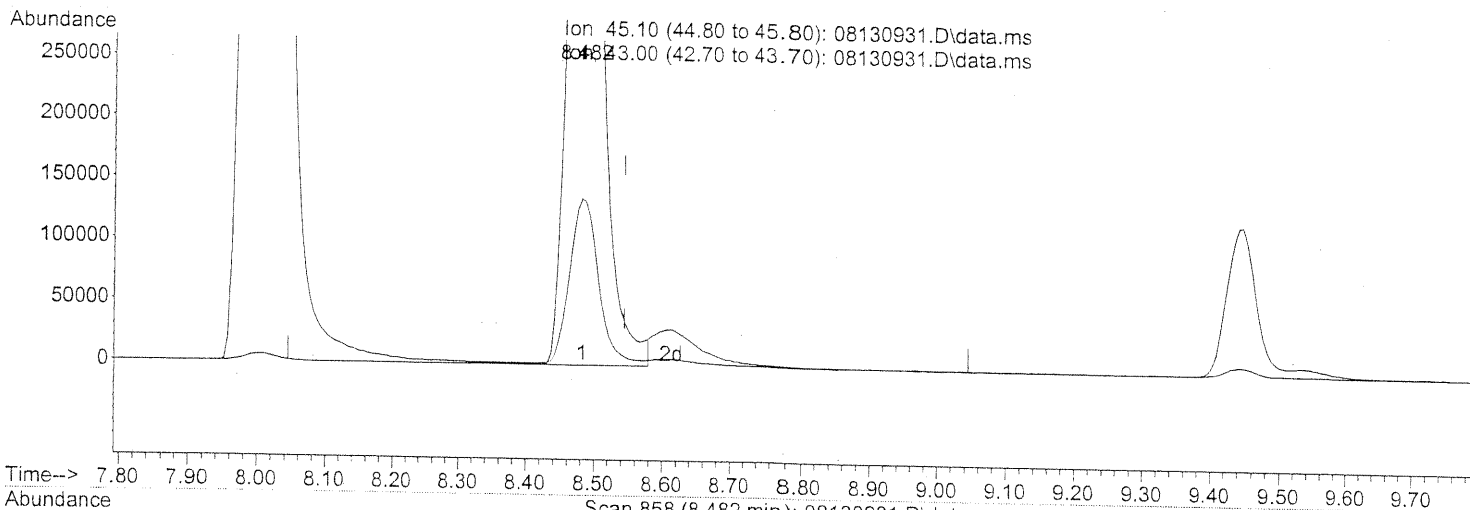
PT → LC
EM 8/14/09

EM 8/15/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.482min (-0.063) 50.45ng

response 2301319

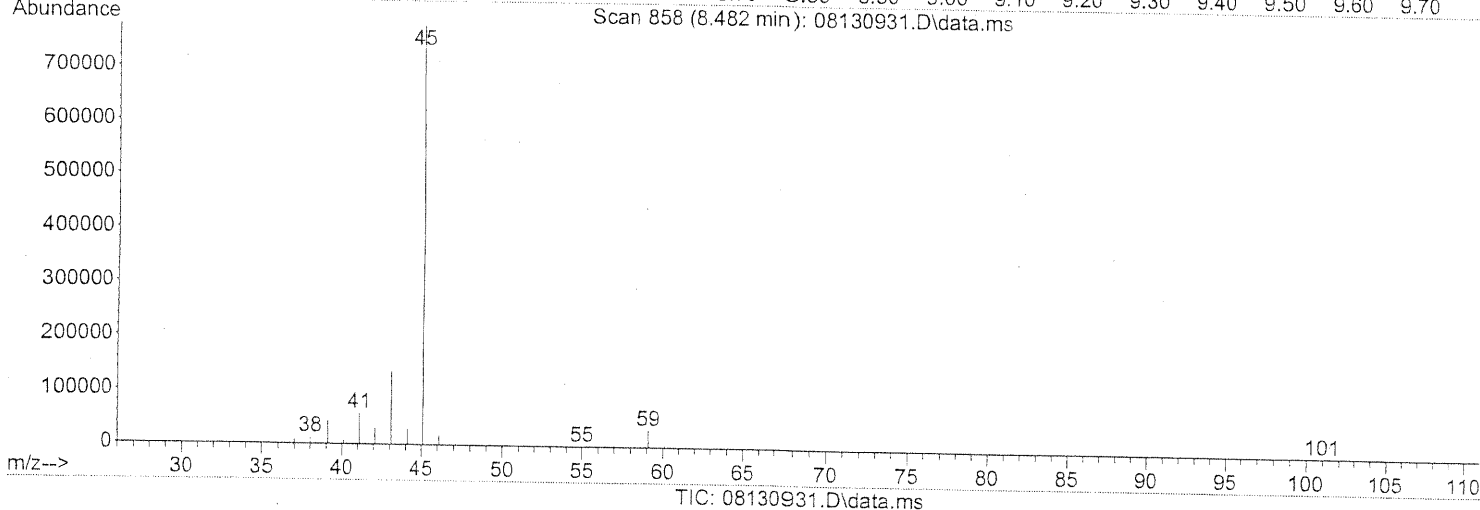
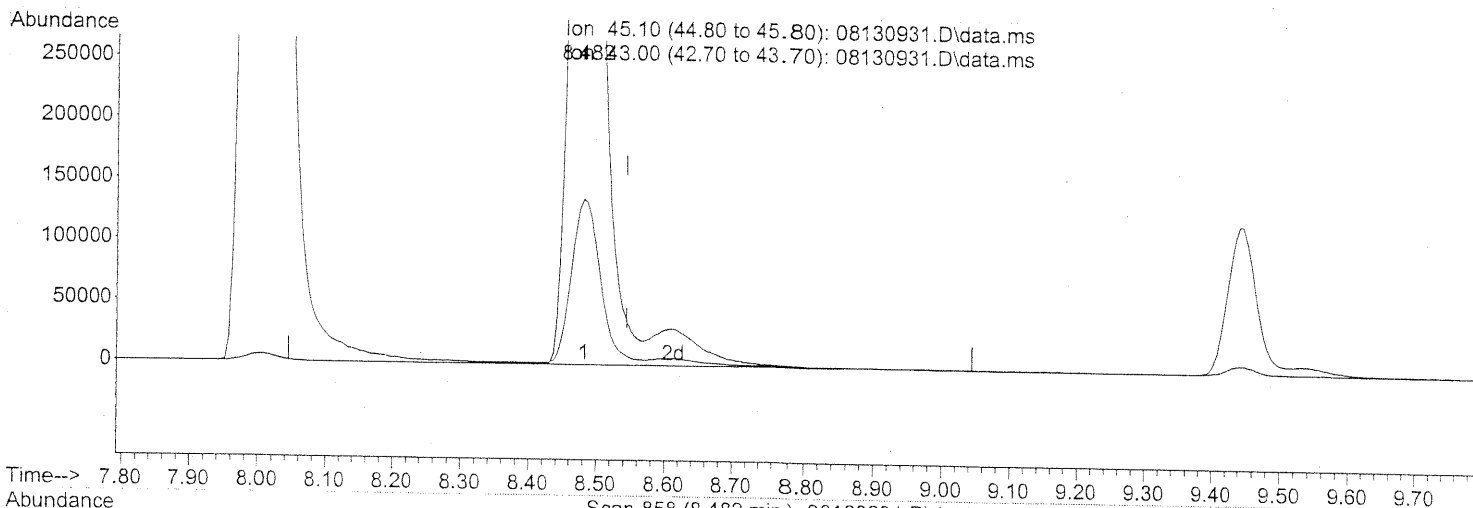
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.19
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

8.482min (-0.063) 53.78ng m

response 2453135

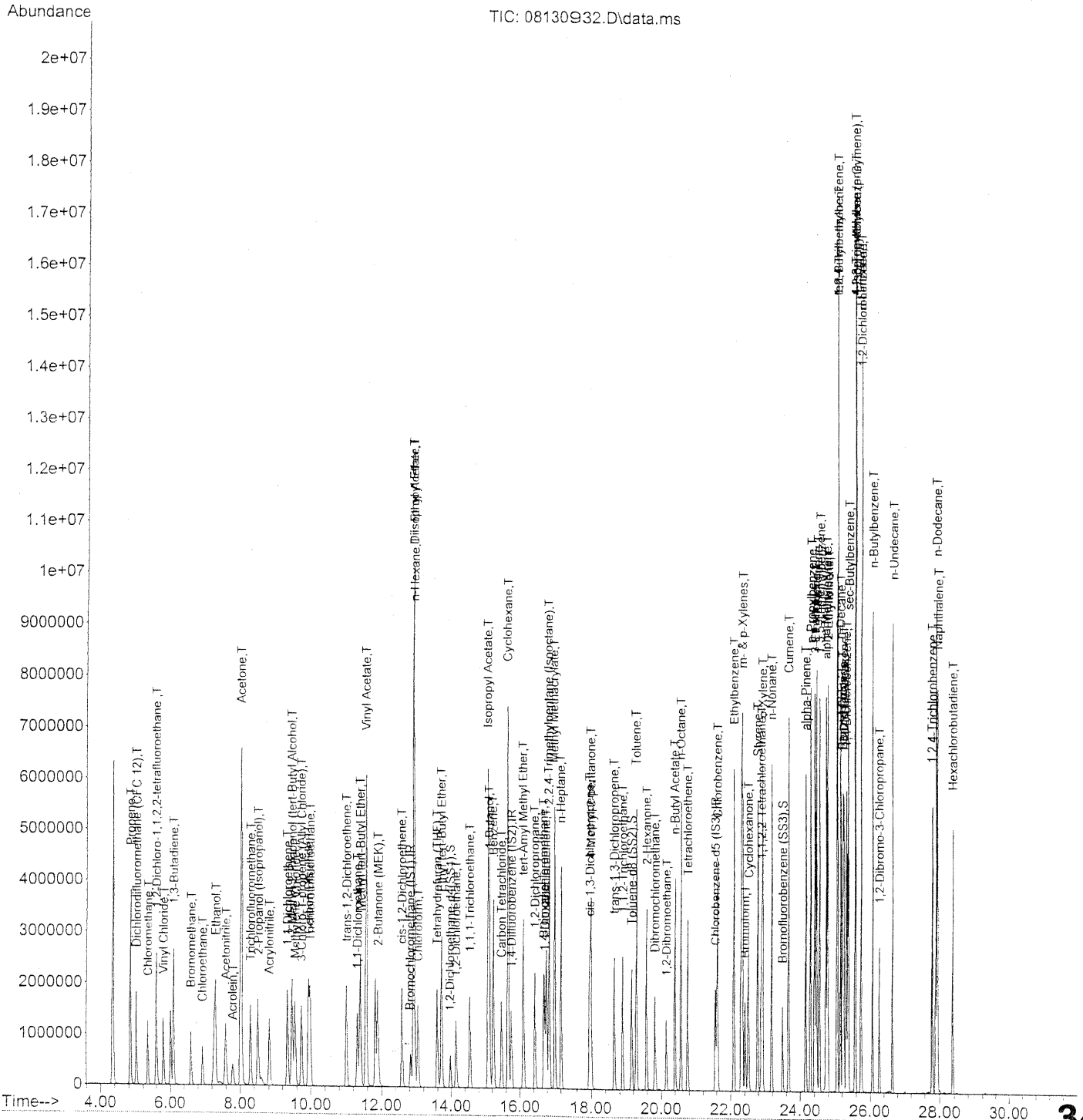
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	18.00
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 8/14/09

EM 8/15/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.82	130	350547	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.77	114	1802547	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.56	82	865291	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.98	65	612890	24.713	ng	-0.01
Spiked Amount	25.000					
			Recovery	=		98.84%
57) Toluene-d8 (SS2)	19.15	98	2053608	23.989	ng	0.00
Spiked Amount	25.000					
			Recovery	=		95.96%
73) Bromofluorobenzene (SS3)	23.49	174	585162	22.737	ng	0.00
Spiked Amount	25.000					
			Recovery	=		90.96%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	1835063	82.979	ng	96
3) Dichlorodifluoromethan...	5.01	85	2152098	48.762	ng	99
4) Chloromethane	5.34	50	1909302	57.769	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1202790	48.388	ng	100
6) Vinyl Chloride	5.80	62	1933734	54.883	ng	99
7) 1,3-Butadiene	6.09	54	1726352	68.147	ng	99
8) Bromomethane	6.59	94	1036817	49.887	ng	100
9) Chloroethane	6.93	64	971424	55.107	ng	100
10) Ethanol	7.30	45	5039053	343.407	ng	100
11) Acetonitrile	7.59	41	2412776	72.719	ng	99
12) Acrolein	7.79	56	727129	67.972	ng	98
13) Acetone	8.03	58	4904508	293.855	ng	87
14) Trichlorofluoromethane	8.29	101	1926285	50.107	ng	98
15) 2-Propanol (Isopropanol)	8.51	45	3892928	88.644	ng	94
16) Acrylonitrile	8.82	53	1701577	75.996	ng	99
17) 1,1-Dichloroethene	9.33	96	1160521	59.280	ng	98
18) 2-Methyl-2-Propanol (t...	9.46	59	4054207	81.969	ng	97
19) Methylene Chloride	9.56	84	1192968	53.981	ng	89
20) 3-Chloro-1-propene (Al...	9.74	41	1889044	79.209	ng	90
21) Trichlorotrifluoroethane	9.99	151	945670	54.226	ng	97
22) Carbon Disulfide	9.94	76	4497151	59.746	ng	98
23) trans-1,2-Dichloroethene	11.01	61	1818529	63.338	ng	93
24) 1,1-Dichloroethane	11.32	63	2174072	62.117	ng	100
25) Methyl tert-Butyl Ether	11.40	73	3746603	60.699	ng	96
26) Vinyl Acetate	11.57	86	1327059	333.362	ng	# 78
27) 2-Butanone (MEK)	11.90	72	865059	67.951	ng	# 86
28) cis-1,2-Dichloroethene	12.58	61	1721120	62.119	ng	94
29) Diisopropyl Ether	12.92	87	1111656	56.184	ng	# 74
30) Ethyl Acetate	12.92	61	1067973	128.075	ng	97
31) n-Hexane	12.93	57	2406714	62.420	ng	95

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EM 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.04	83	1924717	54.970	ng	100
34) Tetrahydrofuran (THF)	13.59	72	790606	65.907	ng	# 87
35) Ethyl tert-Butyl Ether	13.72	87	1490436	56.193	ng	# 88
36) 1,2-Dichloroethane	14.14	62	1501599	53.495	ng	99
38) 1,1,1-Trichloroethane	14.54	97	1725003	52.176	ng	100
39) Isopropyl Acetate	15.08	61	1746401	133.045	ng	# 85
40) 1-Butanol	15.11	56	2940898	131.304	ng	88
41) Benzene	15.24	78	4920242	51.185	ng	99
42) Carbon Tetrachloride	15.47	117	1493939	52.911	ng	99
43) Cyclohexane	15.66	84	4129214	114.874	ng	88
44) tert-Amyl Methyl Ether	16.11	73	3664090	57.672	ng	99
45) 1,2-Dichloropropane	16.44	63	1271414	62.743	ng	98
46) Bromodichloromethane	16.70	83	1623042	58.416	ng	99
47) Trichloroethene	16.78	130	1266559	51.557	ng	100
48) 1,4-Dioxane	16.73	88	1067524	65.978	ng	89
49) 2,2,4-Trimethylpentane...	16.86	57	5774283	61.989	ng	93
50) Methyl Methacrylate	17.03	100	1111183	123.264	ng	93
51) n-Heptane	17.22	71	1384269	59.475	ng	95
52) cis-1,3-Dichloropropene	17.95	75	1961714	58.194	ng	100
53) 4-Methyl-2-pentanone	17.99	58	1317291	72.388	ng	95
54) trans-1,3-Dichloropropene	18.65	75	1988137	67.004	ng	100
55) 1,1,2-Trichloroethane	18.90	97	1148732	56.882	ng	98
58) Toluene	19.28	91	5320486	50.772	ng	100
59) 2-Hexanone	19.59	43	3087649	68.509	ng	100
60) Dibromochloromethane	19.82	129	1325208	56.240	ng	100
61) 1,2-Dibromoethane	20.15	107	1295084	53.355	ng	100
62) n-Butyl Acetate	20.39	43	3708971	74.026	ng	99
63) n-Octane	20.56	57	1231350	60.134	ng	92
64) Tetrachloroethene	20.76	166	1285349	46.390	ng	99
65) Chlorobenzene	21.63	112	3279777	49.753	ng	100
66) Ethylbenzene	22.09	91	5886739	51.658	ng	99
67) m- & p-Xylenes	22.33	91	9252004	98.458	ng	100
68) Bromoform	22.42	173	1097931	52.286	ng	100
69) Styrene	22.78	104	3668340	52.938	ng	100
70) o-Xylene	22.92	91	4731058	50.539	ng	99
71) n-Nonane	23.18	43	2791725	61.083	ng	94
72) 1,1,2,2-Tetrachloroethane	22.89	83	2141569	55.006	ng	100
74) Cumene	23.66	105	5934180	47.735	ng	99
75) alpha-Pinene	24.15	93	2936785	49.431	ng	100
76) n-Propylbenzene	24.29	91	7354011	49.110	ng	100
77) 3-Ethyltoluene	24.41	105	5944493	50.459	ng	99
78) 4-Ethyltoluene	24.47	105	5986526	50.636	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	4865603	49.487	ng	100

EM 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

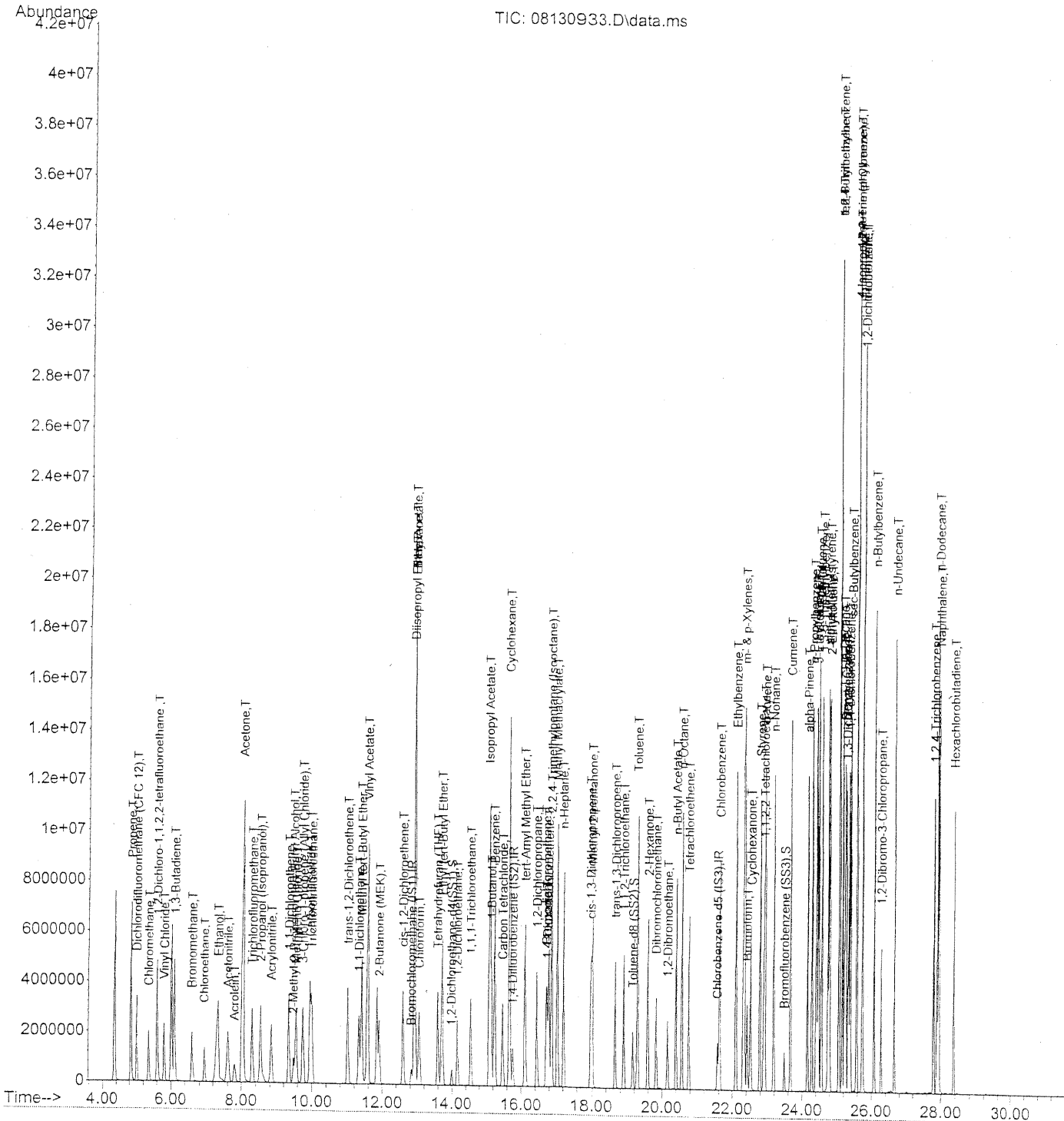
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	2788713	50.704	ng	98
81) 2-Ethyltoluene	24.79	105	5835415	47.282	ng	100
82) 1,2,4-Trimethylbenzene	25.06	105	5419555	49.283	ng	98
83) n-Decane	25.16	57	2958484	55.690	ng	96
84) Benzyl Chloride	25.23	91	4657935	59.094	ng	100
85) 1,3-Dichlorobenzene	25.25	146	2725906	47.225	ng	100
86) 1,4-Dichlorobenzene	25.33	146	2761502	45.918	ng	100
87) sec-Butylbenzene	25.39	105	6623319	48.176	ng	100
88) 4-Isopropyltoluene (p-...	25.57	119	6624766	47.796	ng	100
89) 1,2,3-Trimethylbenzene	25.57	105	5491766	49.043	ng	97
90) 1,2-Dichlorobenzene	25.75	146	2744516	45.744	ng	100
91) d-Limonene	25.75	68	2289426	52.402	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.27	157	922457	54.748	ng	95
93) n-Undecane	26.66	57	3160860	58.111	ng	98
94) 1,2,4-Trichlorobenzene	27.80	180	2014621	52.040	ng	99
95) Naphthalene	27.94	128	7027186	52.076	ng	100
96) n-Dodecane	27.89	57	3283767	56.494	ng	97
97) Hexachlorobutadiene	28.36	225	1130021	51.021	ng	99
98) Cyclohexanone	22.52	55	1802415	57.022	ng	95
99) tert-Butylbenzene	25.06	119	5291689	47.613	ng	100
100) n-Butylbenzene	26.07	91	5516279	50.386	ng	99

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

EM 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.84	130	348166	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.77	114	1791529	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.57	82	827819	25.000	ng	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 (...)	13.99	65	607715	24.672	ng	0.00
Spiked Amount	25.000					
				Recovery =		98.68%
57) Toluene-d8 (SS2)	19.16	98	2003126	24.459	ng	0.00
Spiked Amount	25.000					
				Recovery =		97.84%
73) Bromofluorobenzene (SS3)	23.49	174	555754	22.571	ng	0.00
Spiked Amount	25.000					
				Recovery =		90.28%

Target Compounds						Qvalue
2) Propene	4.84	42	3637379	165.601	ng	96
3) Dichlorodifluoromethan...	5.01	85	4285891	97.773	ng	99
4) Chloromethane	5.35	50	3395552	103.441	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	2374269	96.170	ng	100
6) Vinyl Chloride	5.81	62	3733511	106.688	ng	99
7) 1,3-Butadiene	6.09	54	3376996	134.217	ng	100
8) Bromomethane	6.60	94	2088575	101.180	ng	99
9) Chloroethane	6.94	64	1938501	110.719	ng	100
10) Ethanol	7.35	45	9723278	667.164	ng	100
11) Acetonitrile	7.62	41	4607769	139.823	ng	99
12) Acrolein	7.81	56	1410648	132.769	ng	98
13) Acetone	8.05	58	9758235	588.667	ng	# 81
14) Trichlorofluoromethane	8.31	101	3855506	100.976	ng	98
15) 2-Propanol (Isopropanol)	8.54	45	7411494	169.917	ng	94
16) Acrylonitrile	8.84	53	3337367	150.073	ng	98
17) 1,1-Dichloroethene	9.34	96	2361373	121.445	ng	99
18) 2-Methyl-2-Propanol (t...	9.49	59	1930576	39.300	ng	94
19) Methylene Chloride	9.56	84	2367946	107.882	ng	91
20) 3-Chloro-1-propene (Al...	9.75	41	3751505	158.379	ng	90
21) Trichlorotrifluoroethane	10.00	151	1857232	107.225	ng	98
22) Carbon Disulfide	9.95	76	9003969	120.438	ng	98
23) trans-1,2-Dichloroethene	11.02	61	3600834	126.271	ng	94
24) 1,1-Dichloroethane	11.33	63	4282531	123.196	ng	100
25) Methyl tert-Butyl Ether	11.41	73	7429243	121.184	ng	96
26) Vinyl Acetate	11.59	86	2488460	629.386	ng	# 93
27) 2-Butanone (MEK)	11.92	72	1131449	89.484	ng	# 88
28) cis-1,2-Dichloroethene	12.60	61	3373649	122.596	ng	95
29) Diisopropyl Ether	12.92	87	2306270	117.357	ng	# 89
30) Ethyl Acetate	12.94	61	2196811	265.252	ng	98
31) n-Hexane	12.94	57	5006652	130.739	ng	98

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.06	83	3845350	110.575	ng	100
34) Tetrahydrofuran (THF)	13.59	72	1563630	131.239	ng	# 88
35) Ethyl tert-Butyl Ether	13.73	87	2996398	113.745	ng	90
36) 1,2-Dichloroethane	14.15	62	2964635	106.339	ng	100
38) 1,1,1-Trichloroethane	14.55	97	3345979	101.827	ng	99
39) Isopropyl Acetate	15.10	61	3529470	270.537	ng	# 92
40) 1-Butanol	15.15	56	5716126	256.782	ng	# 5
41) Benzene	15.25	78	9743540	101.985	ng	99
42) Carbon Tetrachloride	15.47	117	2984668	106.359	ng	99
43) Cyclohexane	15.67	84	8447133	236.444	ng	90
44) tert-Amyl Methyl Ether	16.11	73	7344919	116.318	ng	99
45) 1,2-Dichloropropane	16.45	63	2518901	125.070	ng	98
46) Bromodichloromethane	16.71	83	3199002	115.846	ng	99
47) Trichloroethene	16.79	130	2587187	105.962	ng	100
48) 1,4-Dioxane	16.74	88	2105550	130.933	ng	89
49) 2,2,4-Trimethylpentane...	16.87	57	11343752	122.528	ng	93
50) Methyl Methacrylate	17.05	100	2277585	254.207	ng	95
51) n-Heptane	17.22	71	2756301	119.152	ng	95
52) cis-1,3-Dichloropropene	17.96	75	3903750	116.517	ng	99
53) 4-Methyl-2-pentanone	18.00	58	2601880	143.858	ng	96
54) trans-1,3-Dichloropropene	18.66	75	3928268	133.204	ng	100
55) 1,1,2-Trichloroethane	18.90	97	2295248	114.353	ng	99
58) Toluene	19.29	91	10619232	105.924	ng	98
59) 2-Hexanone	19.60	43	5972025	138.505	ng	99
60) Dibromochloromethane	19.83	129	2671138	118.490	ng	99
61) 1,2-Dibromoethane	20.16	107	2581710	111.177	ng	100
62) n-Butyl Acetate	20.40	43	7613756	158.839	ng	98
63) n-Octane	20.57	57	2463694	125.762	ng	94
64) Tetrachloroethene	20.76	166	2651443	100.026	ng	98
65) Chlorobenzene	21.63	112	6606674	104.758	ng	99
66) Ethylbenzene	22.10	91	11775803	108.015	ng	99
67) m- & p-Xylenes	22.35	91	18896858	210.199	ng	98
68) Bromoform	22.43	173	2253843	112.193	ng	100
69) Styrene	22.79	104	7494579	113.049	ng	100
70) o-Xylene	22.93	91	9698083	108.288	ng	100
71) n-Nonane	23.19	43	5386497	123.192	ng	98
72) 1,1,2,2-Tetrachloroethane	22.91	83	4392172	117.919	ng	99
74) Cumene	23.67	105	11982041	100.747	ng	99
75) alpha-Pinene	24.16	93	6016933	105.858	ng	99
76) n-Propylbenzene	24.29	91	14406754	100.564	ng	98
77) 3-Ethyltoluene	24.41	105	12117897	107.517	ng	99
78) 4-Ethyltoluene	24.47	105	12131828	107.260	ng	97
79) 1,3,5-Trimethylbenzene	24.56	105	10058671	106.936	ng	99

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

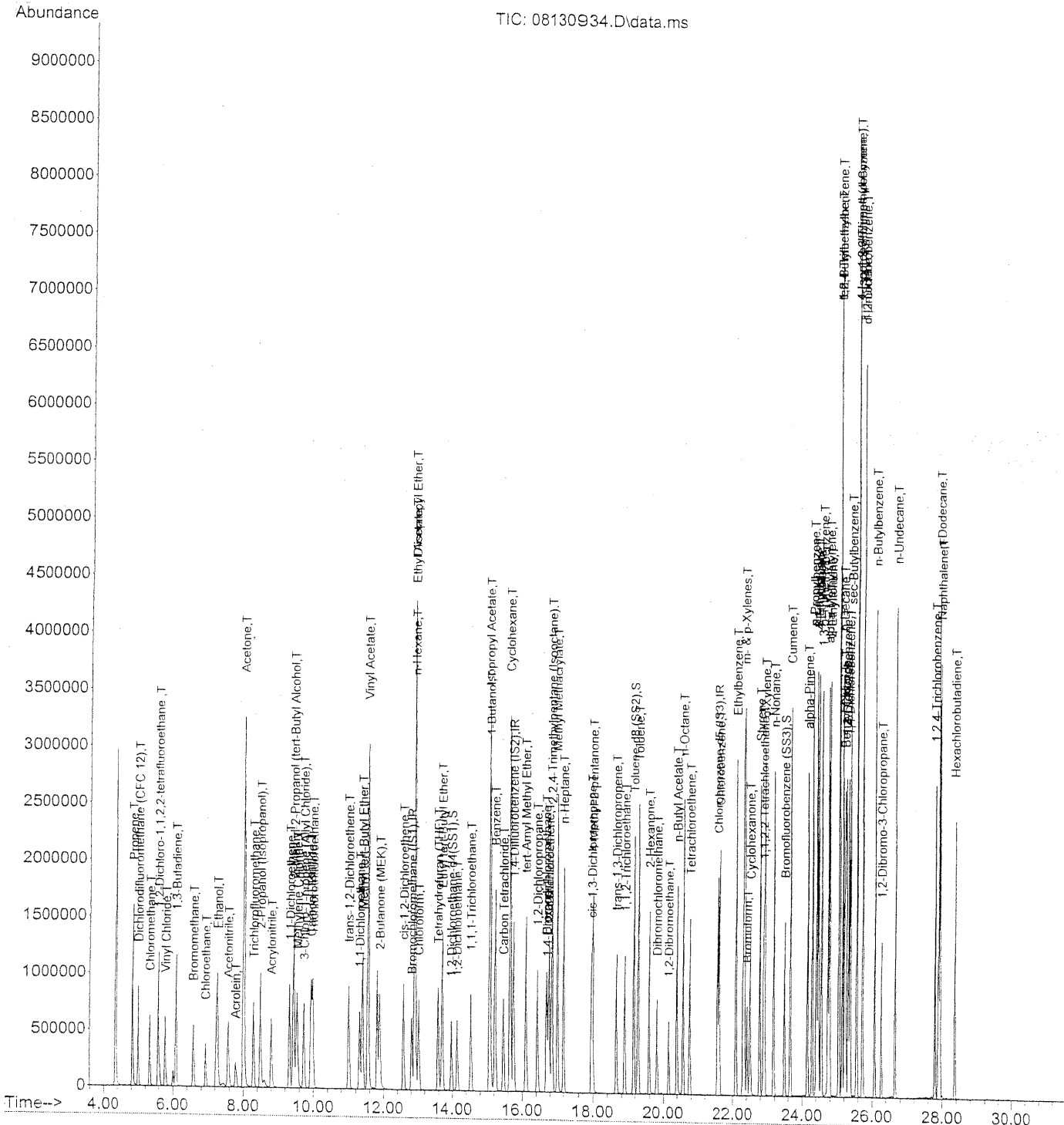
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	5862974	111.426	ng	98
81) 2-Ethyltoluene	24.80	105	11978631	101.452	ng	98
82) 1,2,4-Trimethylbenzene	25.07	105	11417406	108.524	ng	95
83) n-Decane	25.17	57	5959851	117.266	ng	97
84) Benzyl Chloride	25.24	91	9728914	129.016	ng	99
85) 1,3-Dichlorobenzene	25.27	146	5822861	105.443	ng	100
86) 1,4-Dichlorobenzene	25.34	146	5826479	101.267	ng	100
87) sec-Butylbenzene	25.39	105	13318015	101.255	ng	98
88) 4-Isopropyltoluene (p-...	25.58	119	13504368	101.840	ng	96
89) 1,2,3-Trimethylbenzene	25.59	105	11559732	107.903	ng	95
90) 1,2-Dichlorobenzene	25.76	146	6086420	106.037	ng	99
91) d-Limonene	25.75	68	4660560	111.503	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.28	157	1916720	118.907	ng	94
93) n-Undecane	26.66	57	6305897	121.179	ng	100
94) 1,2,4-Trichlorobenzene	27.80	180	4306788	116.286	ng	100
95) Naphthalene	27.94	128	14097900	109.204	ng	98
96) n-Dodecane	27.90	57	6564038	118.039	ng	100
97) Hexachlorobutadiene	28.36	225	2440971	115.199	ng	99
98) Cyclohexanone	22.53	55	3544648	117.216	ng	95
99) tert-Butylbenzene	25.07	119	11254211	105.845	ng	98
100) n-Butylbenzene	26.08	91	11144477	106.402	ng	96

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

Can 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.82	130	347390	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1780684	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	815195	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	604640	24.616	ng	-0.02	
Spiked Amount	25.000		Recovery	=	98.48%		✓
57) Toluene-d8 (SS2)	19.15	98	2007417	25.903	ng	-0.01	
Spiked Amount	25.000		Recovery	=	103.60%		✓
73) Bromofluorobenzene (SS3)	23.49	174	549810	25.051	ng	0.00	
Spiked Amount	25.000		Recovery	=	100.20%		✓

Target Compounds

						Qvalue
2) Propene	4.83	42	755258	24.784	ng	97
3) Dichlorodifluoromethan...	5.00	85	1005106	23.107	ng	99
4) Chloromethane	5.33	50	889752	21.947	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	564338	24.551	ng	100
6) Vinyl Chloride	5.79	62	876778	21.924	ng	99
7) 1,3-Butadiene	6.08	54	701163	24.684	ng	99
8) Bromomethane	6.58	94	517466	24.745	ng	100
9) Chloroethane	6.93	64	453736	22.870	ng	100
10) Ethanol	7.27	45	2232593m	116.796	ng	
11) Acetonitrile	7.57	41	1091608	23.400	ng	98
12) Acrolein	7.79	56	337125	27.044	ng	99
13) Acetone	8.01	58	2192988	112.739	ng	90
14) Trichlorofluoromethane	8.29	101	901533	24.237	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	2159425m	40.537	ng	
16) Acrylonitrile	8.81	53	785326	27.795	ng	99
17) 1,1-Dichloroethene	9.33	96	557081	25.520	ng	100
18) 2-Methyl-2-Propanol (t...	9.45	59	2821970	52.180	ng	97
19) Methylene Chloride	9.54	84	567231	23.372	ng	92
20) 3-Chloro-1-propene (Al...	9.73	41	863616	26.536	ng	90
21) Trichlorotrifluoroethane	9.98	151	460905	27.684	ng	100
22) Carbon Disulfide	9.93	76	2066628	24.130	ng	98
23) trans-1,2-Dichloroethene	11.00	61	828040	24.719	ng	94
24) 1,1-Dichloroethane	11.31	63	1028210	25.062	ng	99
25) Methyl tert-Butyl Ether	11.40	73	1722756	25.914	ng	97
26) Vinyl Acetate	11.56	86	625023	148.358	ng	# 78
27) 2-Butanone (MEK)	11.89	72	401170	29.583	ng	# 87
28) cis-1,2-Dichloroethene	12.58	61	818774	26.193	ng	94
29) Diisopropyl Ether	12.91	87	504111	26.184	ng	# 78
30) Ethyl Acetate	12.90	61	457829	52.062	ng	99
31) n-Hexane	12.93	57	1031014	24.051	ng	

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.03	83	925757	25.803	ng	100
34) Tetrahydrofuran (THF)	13.58	72	383882	27.228	ng	# 90
35) Ethyl tert-Butyl Ether	13.71	87	697007	25.375	ng	90
36) 1,2-Dichloroethane	14.13	62	726093	26.447	ng	100
38) 1,1,1-Trichloroethane	14.54	97	832543	25.706	ng	100
39) Isopropyl Acetate	15.07	61	799888	55.041	ng	# 83
40) 1-Butanol	15.09	56	1373581	59.526	ng	88
41) Benzene	15.23	78	2340548	24.441	ng	98
42) Carbon Tetrachloride	15.46	117	716257	26.758	ng	99
43) Cyclohexane	15.66	84	1852146	49.942	ng	90
44) tert-Amyl Methyl Ether	16.10	73	1708871	25.389	ng	99
45) 1,2-Dichloropropane	16.43	63	596499	25.392	ng	98
46) Bromodichloromethane	16.70	83	745141	26.598	ng	99
47) Trichloroethene	16.77	130	608704	25.035	ng	100
48) 1,4-Dioxane	16.72	88	489317	28.729	ng	89
49) 2,2,4-Trimethylpentane...	16.86	57	2653373	24.075	ng	94
50) Methyl Methacrylate	17.02	100	520131	54.356	ng	94
51) n-Heptane	17.21	71	631643	24.777	ng	96
52) cis-1,3-Dichloropropene	17.95	75	924165	26.108	ng	100
53) 4-Methyl-2-pentanone	17.98	58	595650	28.784	ng	96
54) trans-1,3-Dichloropropene	18.64	75	942904	30.449	ng	100
55) 1,1,2-Trichloroethane	18.89	97	547475	26.759	ng	99
58) Toluene	19.28	91	2532381	26.956	ng	99
59) 2-Hexanone	19.58	43	1400765	28.689	ng	100
60) Dibromochloromethane	19.82	129	613012	30.559	ng	100
61) 1,2-Dibromoethane	20.15	107	619801	29.314	ng	99
62) n-Butyl Acetate	20.39	43	1666866	31.288	ng	99
63) n-Octane	20.56	57	565014	26.981	ng	94
64) Tetrachloroethene	20.76	166	616353	26.439	ng	100
65) Chlorobenzene	21.62	112	1574474	27.291	ng	99
66) Ethylbenzene	22.09	91	2787656	27.484	ng	99
67) m- & p-Xylenes	22.33	91	4338755	53.958	ng	100
68) Bromoform	22.42	173	508656	29.212	ng	100
69) Styrene	22.77	104	1750906	29.458	ng	99
70) o-Xylene	22.92	91	2234503	27.623	ng	99
71) n-Nonane	23.17	43	1287447	26.429	ng	94
72) 1,1,2,2-Tetrachloroethane	22.89	83	1004176	28.898	ng	99
74) Cumene	23.66	105	2788818	26.590	ng	99
75) alpha-Pinene	24.15	93	1368269	26.441	ng	99
76) n-Propylbenzene	24.28	91	3462821	26.713	ng	100
77) 3-Ethyltoluene	24.41	105	2770931	28.200	ng	99
78) 4-Ethyltoluene	24.46	105	2777194	28.115	ng	98
79) 1,3,5-Trimethylbenzene	24.55	105	2322017	28.429	ng	100

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

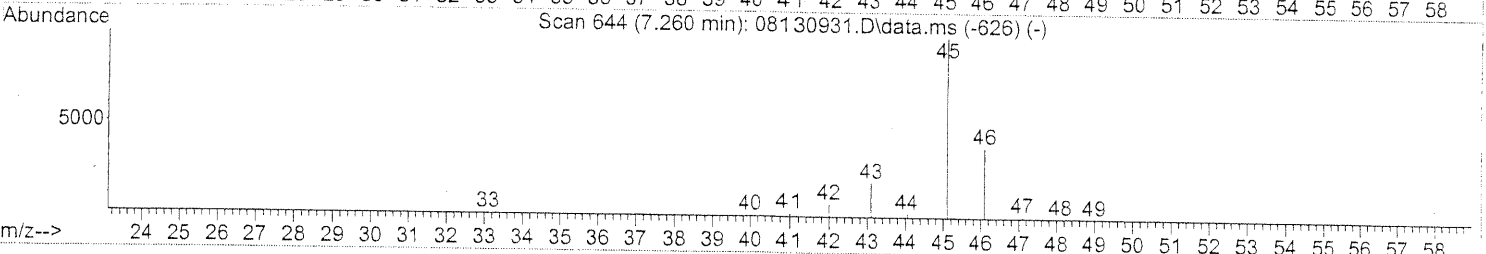
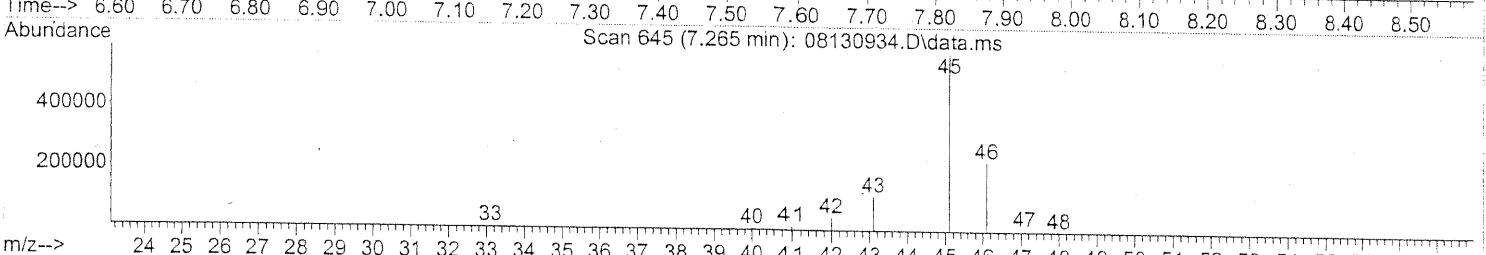
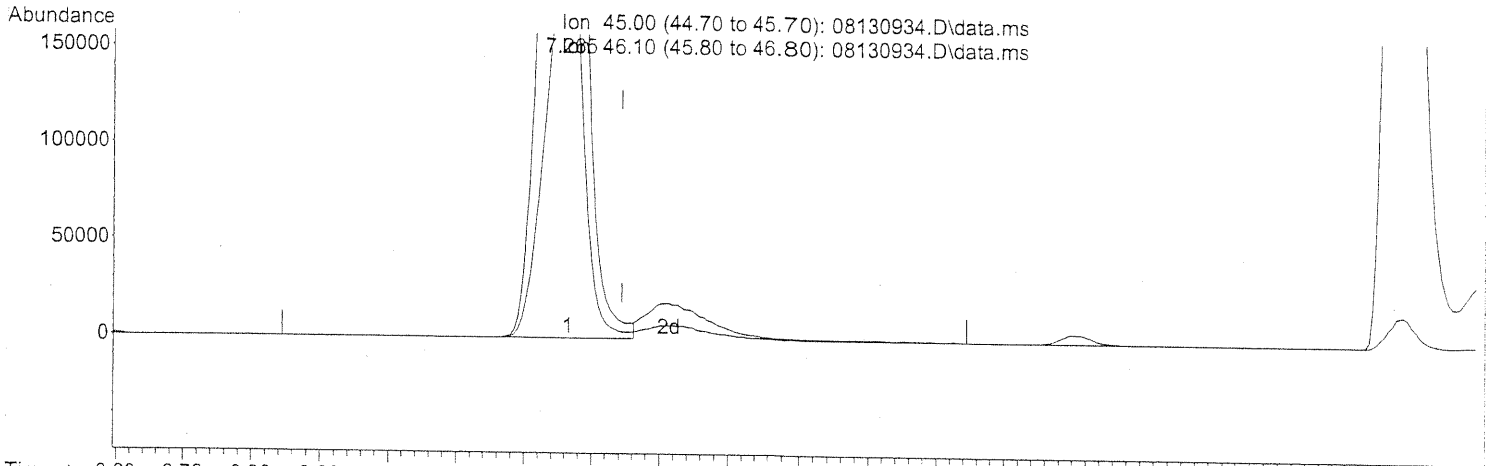
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1304171	29.427	ng	99
81) 2-Ethyltoluene	24.79	105	2766681	27.266	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	2490909	28.723	ng	99
83) n-Decane	25.15	57	1378346	27.307	ng	96
84) Benzyl Chloride	25.22	91	2140806	31.908	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1296940	28.888	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1331268	27.947	ng	100
87) sec-Butylbenzene	25.38	105	3145430	27.525	ng	99
88) 4-Isopropyltoluene (p-....	25.57	119	3016689	27.552	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2500322	28.525	ng	98
90) 1,2-Dichlorobenzene	25.74	146	1277785	28.345	ng	100
91) d-Limonene	25.74	68	1049611	29.583	ng	96
92) 1,2-Dibromo-3-Chloropr...	26.26	157	440710	32.373	ng	95
93) n-Undecane	26.65	57	1469089	28.166	ng	97
94) 1,2,4-Trichlorobenzene	27.79	180	966603	30.692	ng	99
95) Naphthalene	27.94	128	3356047	28.842	ng	100
96) n-Dodecane	27.89	57	1529739	26.201	ng	97
97) Hexachlorobutadiene	28.36	225	537772	29.903	ng	99
98) Cyclohexanone	22.51	55	852691	28.820	ng	95
99) tert-Butylbenzene	25.05	119	2409546	28.016	ng	100
100) n-Butylbenzene	26.07	91	2612795	28.727	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130934.D\data.ms

(10) Ethanol (T)
 7.265min (-0.080) 110.49ng
 response 2112003

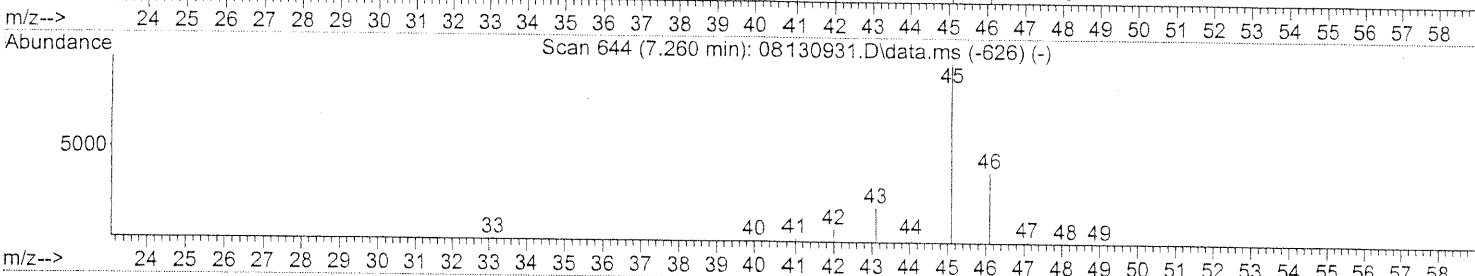
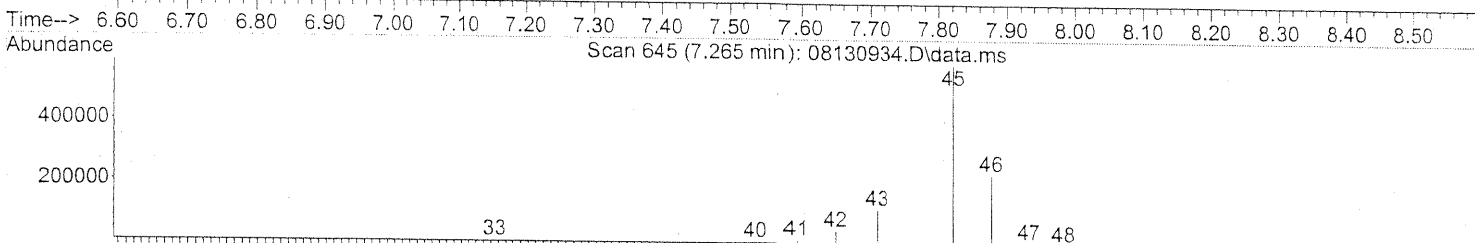
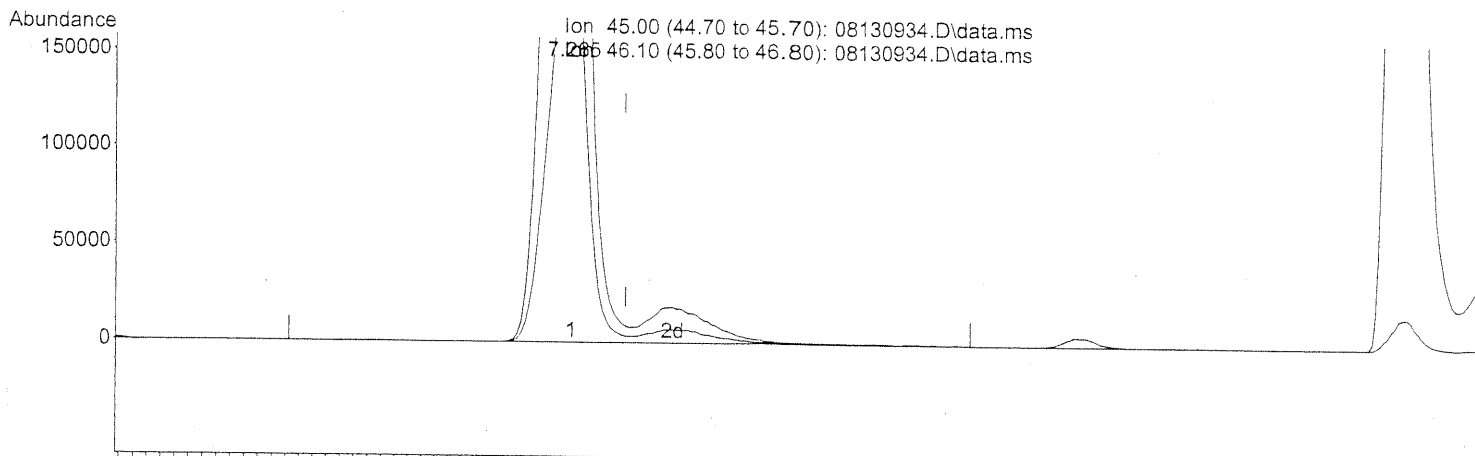
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.87
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130934.D\data.ms

(10) Ethanol (T)
 7.265min (-0.080) 116.80ng m
 response 2232593

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.77
0.00	0.00	0.00
0.00	0.00	0.00

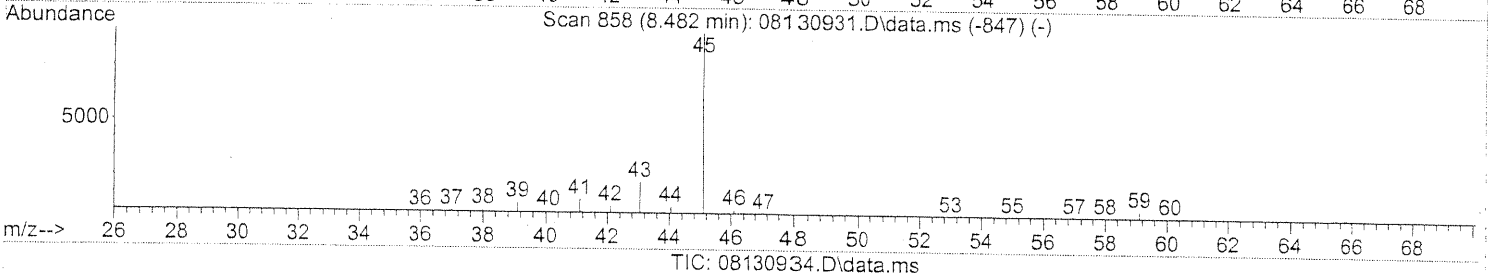
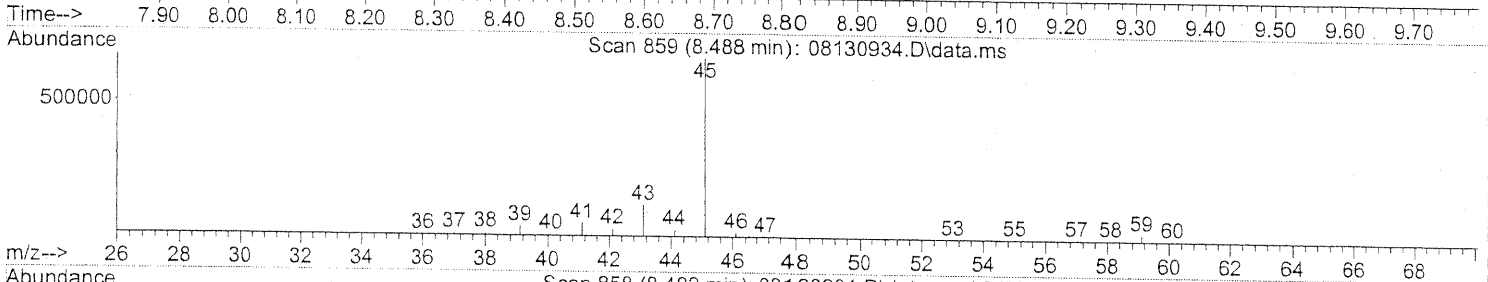
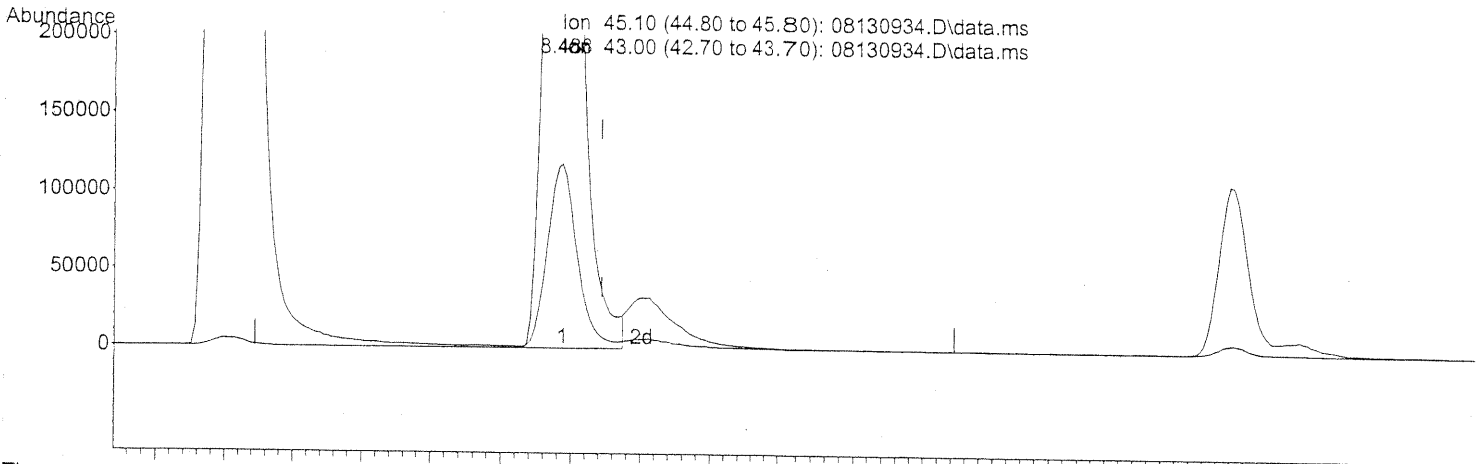
PT → IC
 Em 8/13/09
 14

8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.488min (-0.057) 37.42ng

response 1993602

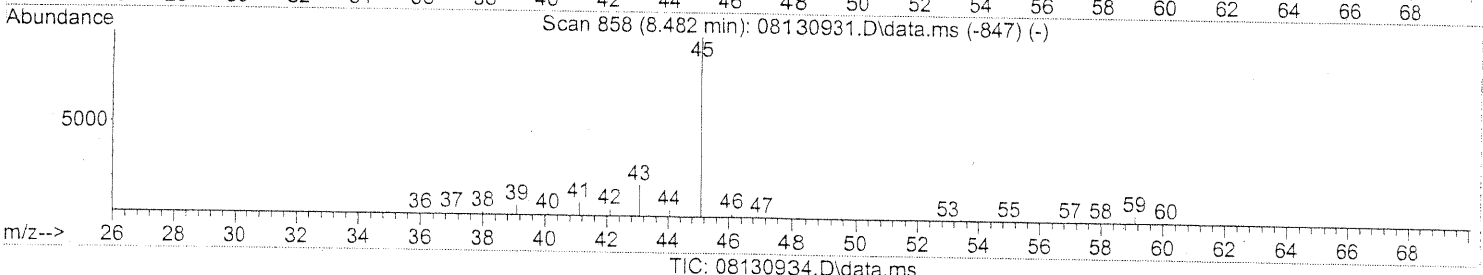
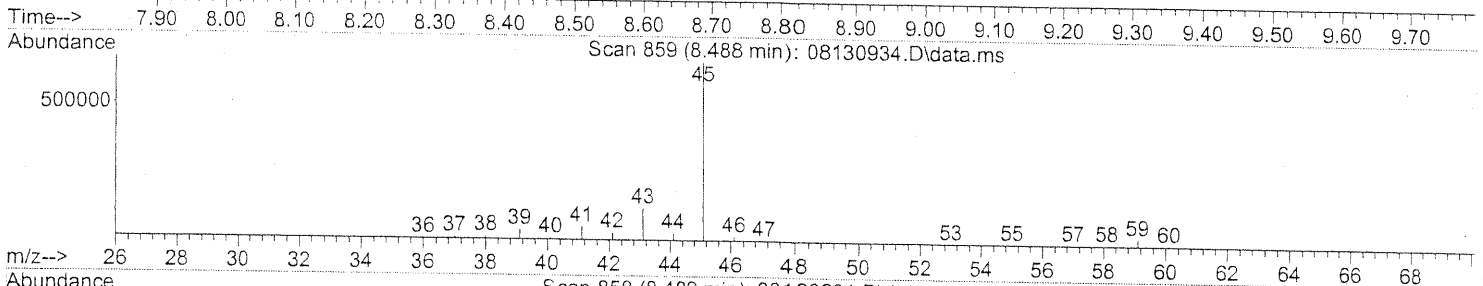
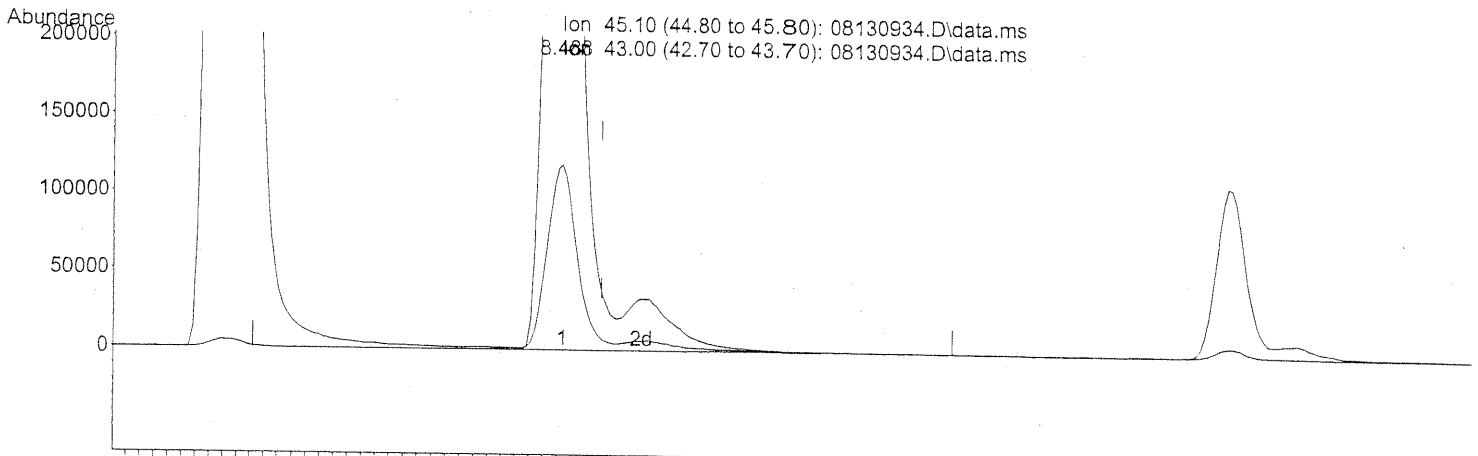
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.46
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.488min (-0.057) 40.54ng m

response 2159425

ion	Exp%	Act%
45.10	100	100
43.00	20.50	16.12
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 8/13/09
14

DA 8/15/09

355

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08130934.D

Acq. Method File: TO15LOW.M

Data File Path: J:\MS09\Data\2009_08\13\

Name: 25ng TO-15 ICV STD

Operator: EM

Misc Info: S20-08130905/S20-08070903

Date Acquired: 8/14/09 7:29

Instrument Name: MS09

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.83	24.8	26.3	94.3	70	130	*
3)	Dichlorodifluoromethane (CFC	5.00	23.1	26.0	88.8	70	130	*
4)	Chloromethane	5.33	21.9	25.0	87.6	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro	5.59	24.6	26.0	94.6	70	130	*
6)	Vinyl Chloride	5.79	21.9	25.3	86.6	70	130	*
7)	1,3-Butadiene	6.08	24.7	26.8	92.2	70	130	*
8)	Bromomethane	6.58	24.7	25.8	95.7	70	130	*
9)	Chloroethane	6.93	22.9	25.5	89.8	70	130	*
10)	Ethanol	7.27	116.8	130.0	89.8	70	130	*
11)	Acetonitrile	7.57	23.4	26.0	90.0	70	130	*
12)	Acrolein	7.79	27.0	26.3	102.7	70	130	*
13)	Acetone	8.01	112.7	132.0	85.4	70	130	*
14)	Trichlorofluoromethane	8.29	24.2	26.3	92.0	70	130	*
15)	2-Propanol (Isopropanol)	8.49	40.5	48.0	84.4	70	130	*
16)	Acrylonitrile	8.81	27.8	25.8	107.8	70	130	*
17)	1,1-Dichloroethene	9.33	25.5	27.5	92.7	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.45	52.2	50.0	104.4	70	130	*
19)	Methylene Chloride	9.54	23.4	26.8	87.3	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.73	26.5	27.0	98.1	70	130	*
21)	Trichlorotrifluoroethane	9.98	27.7	27.5	100.7	70	130	*
22)	Carbon Disulfide	9.93	24.1	26.0	92.7	70	130	*
23)	trans-1,2-Dichloroethene	11.00	24.7	25.5	96.9	70	130	*
24)	1,1-Dichloroethane	11.31	25.1	26.5	94.7	70	130	*
25)	Methyl tert-Butyl Ether	11.40	25.9	26.3	98.5	70	130	*
26)	Vinyl Acetate	11.56	148.4	126.0	117.8	70	130	*
27)	2-Butanone (MEK)	11.89	29.6	26.8	110.4	70	130	*
28)	cis-1,2-Dichloroethene	12.58	26.2	27.0	97.0	70	130	*
29)	Diisopropyl Ether	12.91	26.2	26.5	98.9	70	130	*
30)	Ethyl Acetate	12.90	52.1	52.0	100.2	70	130	*
31)	n-Hexane	12.93	24.1	26.0	92.7	70	130	*
32)	Chloroform	13.03	25.8	27.5	93.8	70	130	*
34)	Tetrahydrofuran (THF)	13.58	27.2	26.5	102.6	70	130	*
35)	Ethyl tert-Butyl Ether	13.71	25.4	25.5	99.6	70	130	*
36)	1,2-Dichloroethane	14.13	26.4	26.3	100.4	70	130	*
38)	1,1,1-Trichloroethane	14.54	25.7	26.0	98.8	70	130	*
39)	Isopropyl Acetate	15.07	55.0	52.3	105.2	70	130	*
40)	1-Butanol	15.09	59.5	52.8	112.7	70	130	*
41)	Benzene	15.23	24.4	25.8	94.6	70	130	*
42)	Carbon Tetrachloride	15.46	26.8	26.3	101.9	70	130	*
43)	Cyclohexane	15.66	49.9	51.8	96.3	70	130	*
44)	tert-Amyl Methyl Ether	16.10	25.4	25.5	99.6	70	130	*
45)	1,2-Dichloropropane	16.43	25.4	26.0	97.7	70	130	*
46)	Bromodichloromethane	16.70	26.6	26.3	101.1	70	130	*
47)	Trichloroethene	16.77	25.0	25.8	96.9	70	130	*
48)	1,4-Dioxane	16.72	28.7	26.0	110.4	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.86	24.1	25.8	93.4	70	130	*
50)	Methyl Methacrylate	17.02	54.4	52.8	103.0	70	130	*

EM 8/14/09

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08130934.D

Acq. Method File: TO15LOW.M

Data File Path: J:\MS09\Data\2009_08\13\

Name: 25ng TO-15 ICV STD

Operator: EM

Misc Info: S20-08130905/S20-08070903

Date Acquired: 8/14/09 7:29

Instrument Name: MS09

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	17.21	24.8	25.8	96.1	70	130	*
52)	cis-1,3-Dichloropropene	17.95	26.1	24.5	106.5	70	130	*
53)	4-Methyl-2-pentanone	17.98	28.8	26.8	107.5	70	130	*
54)	trans-1,3-Dichloropropene	18.64	30.4	27.0	112.6	70	130	*
55)	1,1,2-Trichloroethane	18.89	26.8	26.0	103.1	70	130	*
58)	Toluene	19.28	27.0	26.8	100.7	70	130	*
59)	2-Hexanone	19.58	28.7	27.0	106.3	70	130	*
60)	Dibromochloromethane	19.82	30.6	28.3	108.1	70	130	*
61)	1,2-Dibromoethane	20.15	29.3	26.3	111.4	70	130	*
62)	n-Butyl Acetate	20.39	31.3	27.5	113.8	70	130	*
63)	n-Octane	20.56	27.0	26.3	102.7	70	130	*
64)	Tetrachloroethene	20.76	26.4	25.3	104.3	70	130	*
65)	Chlorobenzene	21.62	27.3	26.5	103.0	70	130	*
66)	Ethylbenzene	22.09	27.5	26.3	104.6	70	130	*
67)	m- & p-Xylenes	22.33	54.0	51.5	104.9	70	130	*
68)	Bromoform	22.42	29.2	26.5	110.2	70	130	*
69)	Styrene	22.77	29.5	26.3	112.2	70	130	*
70)	o-Xylene	22.92	27.6	26.0	106.2	70	130	*
71)	n-Nonane	23.17	26.4	25.8	102.3	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.89	28.9	27.0	107.0	70	130	*
74)	Cumene	23.66	26.6	25.3	105.1	70	130	*
75)	alpha-Pinene	24.15	26.4	24.8	106.5	70	130	*
76)	n-Propylbenzene	24.28	26.7	25.3	105.5	70	130	*
77)	3-Ethyltoluene	24.41	28.2	26.3	107.2	70	130	*
78)	4-Ethyltoluene	24.46	28.1	26.3	106.8	70	130	*
79)	1,3,5-Trimethylbenzene	24.55	28.4	26.5	107.2	70	130	*
80)	alpha-Methylstyrene	24.74	29.4	26.0	113.1	70	130	*
81)	2-Ethyltoluene	24.79	27.3	26.0	105.0	70	130	*
82)	1,2,4-Trimethylbenzene	25.05	28.7	25.5	112.5	70	130	*
83)	n-Decane	25.15	27.3	26.3	103.8	70	130	*
84)	Benzyl Chloride	25.22	31.9	26.8	119.0	70	130	*
85)	1,3-Dichlorobenzene	25.25	28.9	26.0	111.2	70	130	*
86)	1,4-Dichlorobenzene	25.33	27.9	26.3	106.1	70	130	*
87)	sec-Butylbenzene	25.38	27.5	25.8	106.6	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.57	27.6	25.0	110.4	70	130	*
89)	1,2,3-Trimethylbenzene	25.57	28.5	26.0	109.6	70	130	*
90)	1,2-Dichlorobenzene	25.74	28.3	25.8	109.7	70	130	*
91)	d-Limonene	25.74	29.6	26.5	111.7	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.26	32.4	27.0	120.0	70	130	*
93)	n-Undecane	26.65	28.2	26.3	107.2	70	130	*
94)	1,2,4-Trichlorobenzene	27.79	30.7	27.3	112.5	70	130	*
95)	Naphthalene	27.94	28.8	25.0	115.2	70	130	*
96)	n-Dodecane	27.89	26.2	24.3	107.8	70	130	*
97)	Hexachlorobutadiene	28.36	29.9	26.8	111.6	70	130	*
98)	Cyclohexanone	22.51	28.8	24.8	116.1	70	130	*
99)	tert-Butylbenzene	25.05	28.0	26.5	105.7	70	130	*
100)	n-Butylbenzene	26.07	28.7	26.5	108.3	70	130	*

* Denotes Passing Criterion

EM 8/14/09

CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 08:01:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

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	99	-0.02
2 T	Propene	2.193	2.170	1.0	94	0.00
3 T	Dichlorodifluoromethane (CF	3.130	2.590	17.3	87	0.00
4 T	Chloromethane	2.918	2.485	14.8	84	-0.01
5 T	1,2-Dichloro-1,1,2,2-tetra	1.654	1.422	14.0	88	-0.01
6 T	Vinyl Chloride	2.878	2.436	15.4	88	-0.01
7 T	1,3-Butadiene	2.044	1.949	4.6	93	-0.01
8 T	Bromomethane	1.505	1.387	7.8	92	-0.02
9 T	Chloroethane	1.428	1.291	9.6	92	-0.01
10 T	Ethanol	1.376	1.211	12.0	86	-0.07
11 T	Acetonitrile	3.357	3.040	9.4	91	-0.05
12 T	Acrolein	0.897	0.891	0.7	91	-0.02
13 T	Acetone	1.400	1.189	15.1	93	-0.05
14 T	Trichlorofluoromethane	2.677	2.380	11.1	89	-0.02
15 T	2-Propanol (Isopropanol)	3.834	2.782	27.4	77	-0.05
16 T	Acrylonitrile	2.033	2.117	-4.1	90	-0.03
17 T	1,1-Dichloroethene	1.571	1.384	11.9	91	-0.02
18 T	2-Methyl-2-Propanol (tert-B	3.892	3.790	2.6	88	-0.04
19 T	Methylene Chloride	1.747	1.468	16.0	91	-0.02
20 T	3-Chloro-1-propene (Allyl C	2.342	2.357	-0.6	94	-0.02
21 T	Trichlorotrifluoroethane	1.198	1.121	6.4	91	-0.01
22 T	Carbon Disulfide	6.163	5.527	10.3	92	-0.01
23 T	trans-1,2-Dichloroethene	2.411	2.276	5.6	92	-0.01
24 T	1,1-Dichloroethane	2.952	2.734	7.4	93	-0.02
25 T	Methyl tert-Butyl Ether	4.784	4.531	5.3	93	0.00
26 T	Vinyl Acetate	0.303	0.332	-9.6	92	-0.03
27 T	2-Butanone (MEK)	0.976	1.032	-5.7	91	-0.03
28 T	cis-1,2-Dichloroethene	2.250	2.092	7.0	92	-0.02
29 T	Diisopropyl Ether	1.386	1.310	5.5	92	-0.01
30 T	Ethyl Acetate	0.633	0.625	1.3	92	-0.03
31 T	n-Hexane	3.085	2.833	8.2	95	-0.01
32 T	Chloroform	2.582	2.363	8.5	91	-0.03
33 S	1,2-Dichloroethane-d4 (SS1)	1.768	1.768	0.0	100	-0.02
34 T	Tetrahydrofuran (THF)	1.015	1.003	1.2	94	-0.01
35 T	Ethyl tert-Butyl Ether	1.977	1.867	5.6	92	-0.01
36 T	1,2-Dichloroethane	1.976	1.881	4.8	92	-0.02
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	99	-0.01
38 T	1,1,1-Trichloroethane	0.455	0.421	7.5	92	-0.01

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Em 8/28/09

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 08:01:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 T	Isopropyl Acetate	0.204	0.210	-2.9	91	-0.03
40 T	1-Butanol	0.324	0.359	-10.8	91	-0.06
41 T	Benzene	1.344	1.195	11.1	92	-0.01
42 T	Carbon Tetrachloride	0.376	0.350	6.9	91	-0.01
43 T	Cyclohexane	0.521	0.486	6.7	93	-0.02
44 T	tert-Amyl Methyl Ether	0.945	0.893	5.5	92	-0.01
45 T	1,2-Dichloropropane	0.330	0.312	5.5	92	-0.02
46 T	Bromodichloromethane	0.393	0.382	2.8	91	-0.02
47 T	Trichloroethene	0.341	0.302	11.4	91	-0.02
48 T	1,4-Dioxane	0.239	0.250	-4.6	91	-0.02
49 T	2,2,4-Trimethylpentane (Iso)	1.547	1.435	7.2	93	-0.02
50 T	Methyl Methacrylate	0.134	0.129	3.7	90	-0.02
51 T	n-Heptane	0.358	0.335	6.4	92	-0.01
52 T	cis-1,3-Dichloropropene	0.497	0.503	-1.2	91	0.00
53 T	4-Methyl-2-pentanone	0.291	0.306	-5.2	92	-0.02
54 T	trans-1,3-Dichloropropene	0.435	0.459	-5.5	91	-0.02
55 T	1,1,2-Trichloroethane	0.287	0.280	2.4	91	-0.01
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	99	0.00
57 S	Toluene-d8 (SS2)	2.377	2.379	-0.1	99	-0.01
58 T	Toluene	2.881	2.603	9.6	91	-0.01
59 T	2-Hexanone	1.497	1.508	-0.7	93	-0.02
60 T	Dibromochloromethane	0.615	0.604	1.8	91	-0.01
61 T	1,2-Dibromoethane	0.648	0.646	0.3	91	-0.01
62 T	n-Butyl Acetate	1.634	1.751	-7.2	92	-0.02
63 T	n-Octane	0.642	0.610	5.0	93	-0.01
64 T	Tetrachloroethene	0.715	0.654	8.5	90	0.00
65 T	Chlorobenzene	1.769	1.602	9.4	91	-0.01
66 T	Ethylbenzene	3.111	2.917	6.2	92	0.00
67 T	m- & p-Xylenes	2.466	2.300	6.7	91	-0.02
68 T	Bromoform	0.534	0.546	-2.2	91	-0.01
69 T	Styrene	1.823	1.774	2.7	90	-0.01
70 T	o-Xylene	2.481	2.319	6.5	91	-0.02
71 T	n-Nonane	1.494	1.430	4.3	93	-0.01
72 T	1,1,2,2-Tetrachloroethane	1.066	1.042	2.3	92	-0.02
73 S	Bromofluorobenzene (SS3)	0.673	0.674	-0.1	98	0.00
74 T	Cumene	3.217	3.000	6.7	91	0.00
75 T	alpha-Pinene	1.587	1.483	6.6	90	0.00
76 T	n-Propylbenzene	3.975	3.726	6.3	91	-0.01

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Em 8/28/09

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 08:01:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	3.013	2.788	7.5	88	0.00
78 T	4-Ethyltoluene	3.029	2.833	6.5	94	-0.01
79 T	1,3,5-Trimethylbenzene	2.505	2.294	8.4	91	-0.01
80 T	alpha-Methylstyrene	1.359	1.315	3.2	90	-0.02
81 T	2-Ethyltoluene	3.112	2.854	8.3	90	-0.02
82 T	1,2,4-Trimethylbenzene	2.660	2.519	5.3	90	-0.01
83 T	n-Decane	1.548	1.433	7.4	91	-0.02
84 T	Benzyl Chloride	2.058	2.146	-4.3	90	-0.02
85 T	1,3-Dichlorobenzene	1.377	1.269	7.8	91	-0.02
86 T	1,4-Dichlorobenzene	1.461	1.329	9.0	90	-0.01
87 T	sec-Butylbenzene	3.505	3.216	8.2	90	-0.01
88 T	4-Isopropyltoluene (p-Cymen)	3.358	3.183	5.2	90	-0.01
89 T	1,2,3-Trimethylbenzene	2.688	2.532	5.8	90	-0.01
90 T	1,2-Dichlorobenzene	1.382	1.275	7.7	90	-0.01
91 T	d-Limonene	1.088	1.054	3.1	90	-0.01
92 T	1,2-Dibromo-3-Chloropropane	0.417	0.432	-3.6	91	-0.01
93 T	n-Undecane	1.600	1.512	5.5	91	0.00
94 T	1,2,4-Trichlorobenzene	0.966	0.936	3.1	95	-0.01
95 T	Naphthalene	3.568	3.531	1.0	97	0.00
96 T	n-Dodecane	1.790	1.770	1.1	95	0.00
97 T	Hexachlorobutadiene	0.552	0.529	4.2	94	0.00
98 T	Cyclohexanone	0.907	0.958	-5.6	90	-0.02
99 T	tert-Butylbenzene	2.638	2.469	6.4	90	-0.01
100 T	n-Butylbenzene	2.789	2.608	6.5	90	0.00

(#) = Out of Range

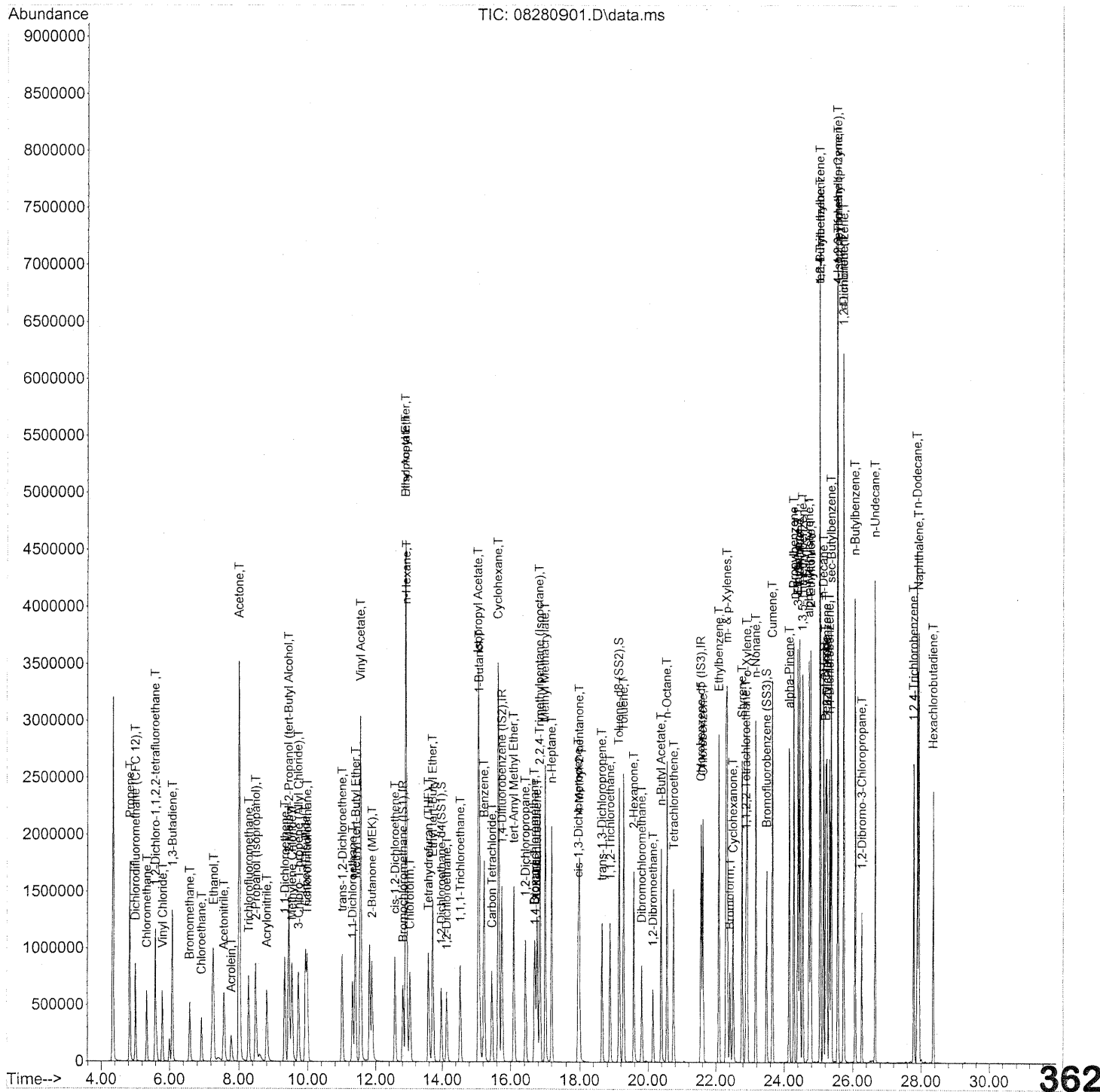
SPCC's out = 0 CCC's out = 0

Can 8/28/09

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Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 08:01:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
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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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.82	130	359999	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.76	114	1839461	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.56	82	886352	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	636629	25.010	ng	-0.02	
Spiked Amount	25.000						
							Recovery = 100.04%
57) Toluene-d8 (SS2)	19.15	98	2108890	25.028	ng	-0.01	
Spiked Amount	25.000						
							Recovery = 100.12%
73) Bromofluorobenzene (SS3)	23.49	174	597591	25.042	ng	0.00	
Spiked Amount	25.000						
							Recovery = 100.16%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	837341	26.515	ng	96
3) Dichlorodifluoromethan...	5.00	85	980724	21.756	ng	99
4) Chloromethane	5.33	50	894696	21.296	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	542623	22.780	ng	100
6) Vinyl Chloride	5.80	62	887619	21.418	ng	99
7) 1,3-Butadiene	6.08	54	841828	28.597	ng	98
8) Bromomethane	6.58	94	509151	23.495	ng	99
9) Chloroethane	6.93	64	470211	22.870	ng	100
10) Ethanol	7.27	45	2267470m	114.466	ng	
11) Acetonitrile	7.57	41	1151138	23.812	ng	99
12) Acrolein	7.79	56	346517	26.824	ng	98
13) Acetone	8.01	58	2362092	117.180	ng	91
14) Trichlorofluoromethane	8.29	101	901331	23.382	ng	99
15) 2-Propanol (Isopropanol)	8.49	45	1895068m	34.328	ng	
16) Acrylonitrile	8.81	53	807918	27.593	ng	98
17) 1,1-Dichloroethene	9.33	96	548003	24.225	ng	97
18) 2-Methyl-2-Propanol (t...	9.45	59	2756320	49.181	ng	97
19) Methylene Chloride	9.54	84	566538	22.526	ng	87
20) 3-Chloro-1-propene (Al...	9.73	41	916563	27.176	ng	88
21) Trichlorotrifluoroethane	9.99	151	443811	25.724	ng	96
22) Carbon Disulfide	9.94	76	2133010	24.033	ng	98
23) trans-1,2-Dichloroethene	11.01	61	868672	25.023	ng	92
24) 1,1-Dichloroethane	11.32	63	1043331	24.540	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1781077	25.853	ng	96
26) Vinyl Acetate	11.56	86	603007	138.119	ng	# 66
27) 2-Butanone (MEK)	11.89	72	408603	29.076	ng	# 82
28) cis-1,2-Dichloroethene	12.58	61	822214	25.382	ng	92
29) Diisopropyl Ether	12.91	87	505625	25.343	ng	# 64
30) Ethyl Acetate	12.91	61	479429	52.609	ng	96
31) n-Hexane	12.93	57	1113691	25.070	ng	96

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Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 08:01:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.03	83	912016	24.530	ng	100
34) Tetrahydrofuran (THF)	13.58	72	397362	27.197	ng	# 86
35) Ethyl tert-Butyl Ether	13.71	87	693586	24.366	ng	# 86
36) 1,2-Dichloroethane	14.13	62	717700	25.226	ng	99
38) 1,1,1-Trichloroethane	14.54	97	815560	24.377	ng	100
39) Isopropyl Acetate	15.07	61	808723	53.870	ng	# 78
40) 1-Butanol	15.09	56	1368707	57.419	ng	85
41) Benzene	15.23	78	2330653	23.560	ng	99
42) Carbon Tetrachloride	15.46	117	695099	25.138	ng	99
43) Cyclohexane	15.66	84	1924491	50.234	ng	88
44) tert-Amyl Methyl Ether	16.10	73	1708802	24.577	ng	98
45) 1,2-Dichloropropane	16.43	63	602986	24.848	ng	99
46) Bromodichloromethane	16.70	83	758144	26.198	ng	99
47) Trichloroethene	16.77	130	588570	23.433	ng	99
48) 1,4-Dioxane	16.72	88	493934	28.073	ng	88
49) 2,2,4-Trimethylpentane...	16.86	57	2745683	24.117	ng	94
50) Methyl Methacrylate	17.02	100	504834	51.072	ng	90
51) n-Heptane	17.21	71	653243	24.806	ng	94
52) cis-1,3-Dichloropropene	17.95	75	918547	25.120	ng	100
53) 4-Methyl-2-pentanone	17.98	58	618255	28.922	ng	94
54) trans-1,3-Dichloropropene	18.64	75	928364	29.021	ng	100
55) 1,1,2-Trichloroethane	18.89	97	541181	25.607	ng	98
58) Toluene	19.28	91	2492104	24.398	ng	100
59) 2-Hexanone	19.58	43	1470722	27.704	ng	98
60) Dibromochloromethane	19.82	129	616312	28.257	ng	100
61) 1,2-Dibromoethane	20.15	107	606671	26.390	ng	100
62) n-Butyl Acetate	20.39	43	1707538	29.478	ng	98
63) n-Octane	20.56	57	579470	25.450	ng	91
64) Tetrachloroethene	20.76	166	591445	23.334	ng	99
65) Chlorobenzene	21.62	112	1533496	24.446	ng	99
66) Ethylbenzene	22.09	91	2740435	24.850	ng	99
67) m- & p-Xylenes	22.33	91	4241198	48.511	ng	100
68) Bromoform	22.41	173	499354	26.376	ng	100
69) Styrene	22.77	104	1685810	26.086	ng	100
70) o-Xylene	22.92	91	2178562	24.770	ng	99
71) n-Nonane	23.17	43	1343122	25.358	ng	92
72) 1,1,2,2-Tetrachloroethane	22.89	83	990355	26.212	ng	100
74) Cumene	23.66	105	2743938	24.061	ng	99
75) alpha-Pinene	24.15	93	1330153	23.641	ng	99
76) n-Propylbenzene	24.28	91	3408414	24.183	ng	99
77) 3-Ethyltoluene	24.41	105	2698541	25.259	ng	99
78) 4-Ethyltoluene	24.46	105	2742428	25.534	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	2220824	25.007	ng	100

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Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 08:01:16 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

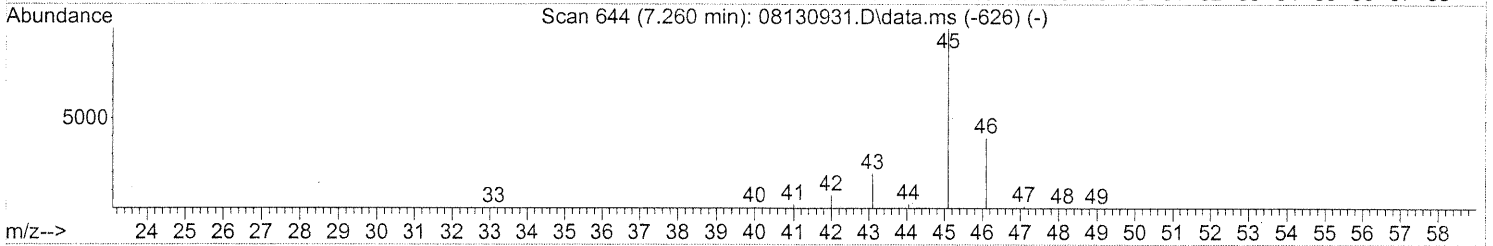
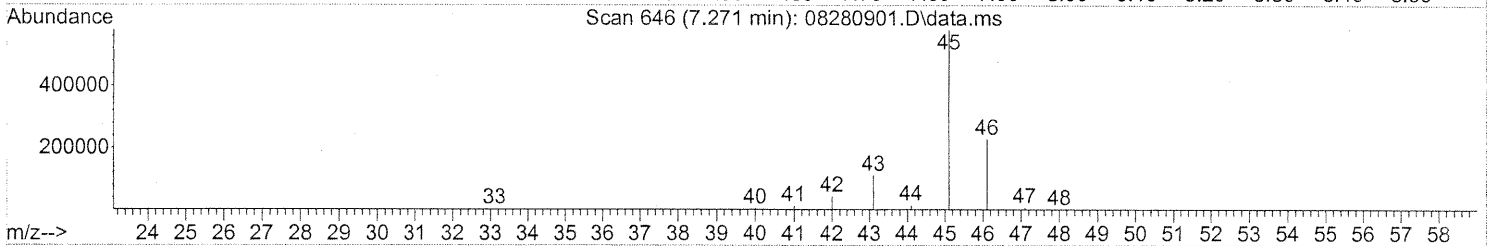
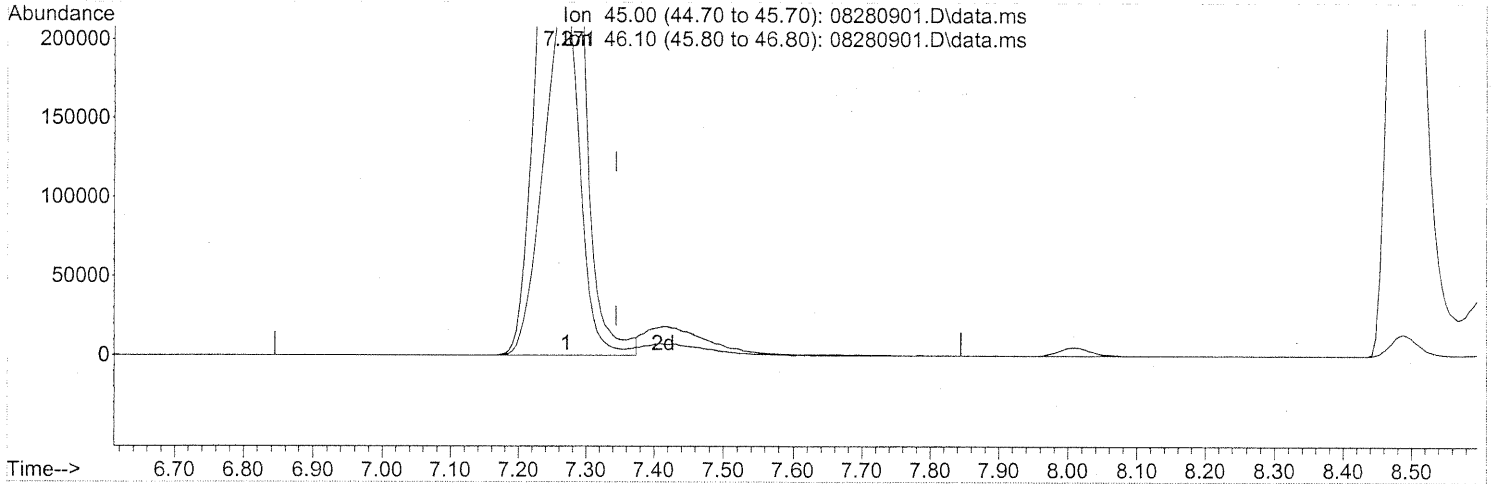
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	1249801	25.936	ng	99
81) 2-Ethyltoluene	24.79	105	2661443	24.123	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	2367087	25.104	ng	99
83) n-Decane	25.15	57	1371394	24.988	ng	95
84) Benzyl Chloride	25.22	91	2092020	28.678	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1228170	25.160	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1248283	24.101	ng	100
87) sec-Butylbenzene	25.38	105	3021491	24.317	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	2911178	24.454	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2405427	25.239	ng	98
90) 1,2-Dichlorobenzene	25.74	146	1198082	24.444	ng	100
91) d-Limonene	25.74	68	1019826	26.436	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.26	157	421010	28.443	ng	95
93) n-Undecane	26.65	57	1463372	25.804	ng	97
94) 1,2,4-Trichlorobenzene	27.79	180	929376	27.141	ng	99
95) Naphthalene	27.94	128	3317130	26.219	ng	100
96) n-Dodecane	27.89	57	1556450	24.519	ng	96
97) Hexachlorobutadiene	28.36	225	516095	26.393	ng	99
98) Cyclohexanone	22.51	55	832160	25.868	ng	94
99) tert-Butylbenzene	25.05	119	2319763	24.807	ng	99
100) n-Butylbenzene	26.07	91	2524128	25.524	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 07:09:18 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.271min (-0.074) 108.51ng

response 2149423

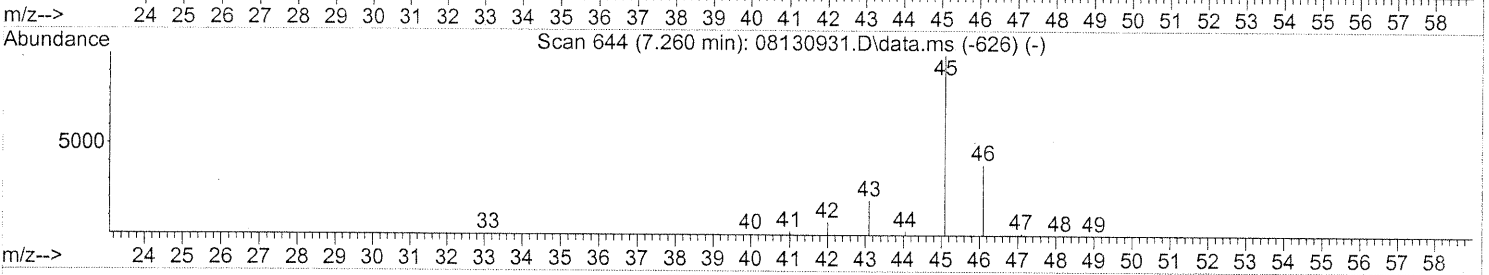
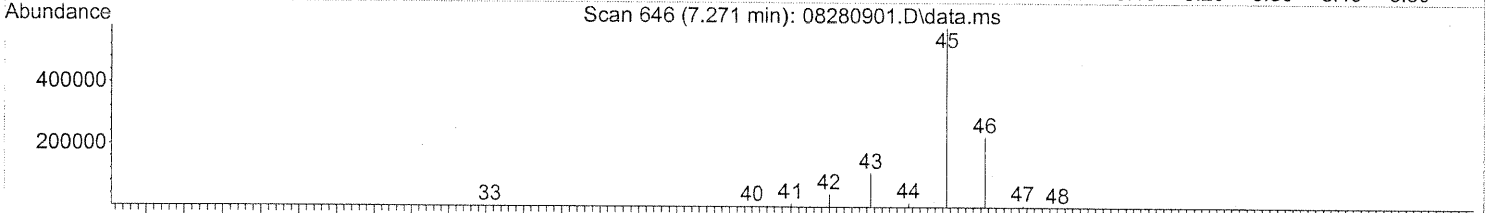
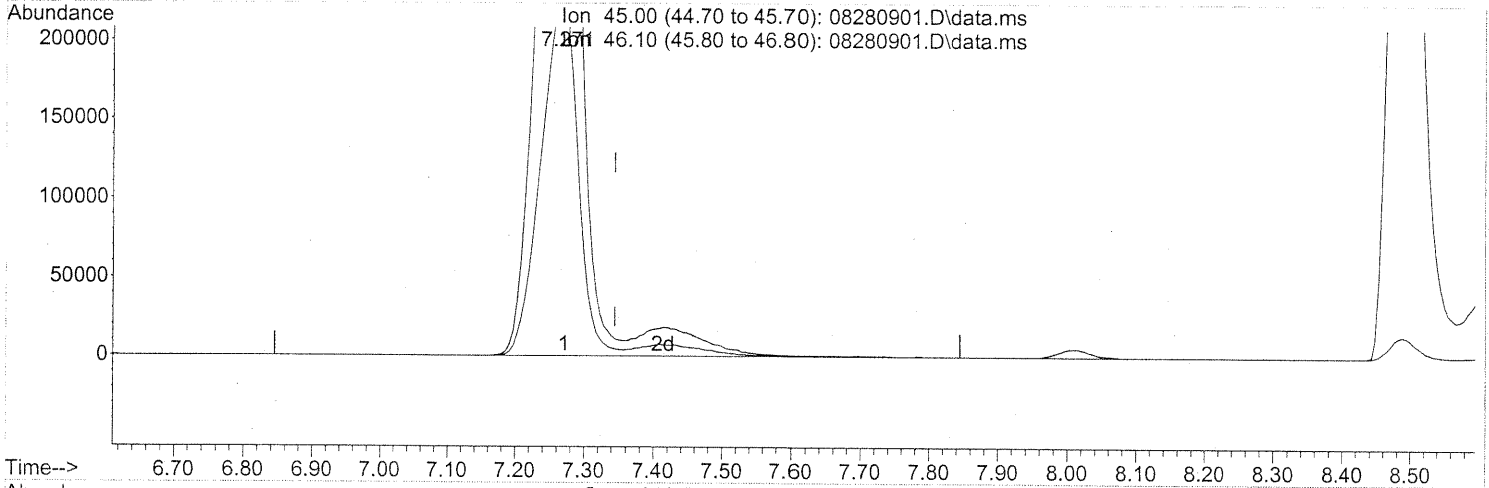
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.15
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 07:09:18 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08280901.D\data.ms

(10) Ethanol (T)

7.271min (-0.074) 114.47ng m
 response 2267470

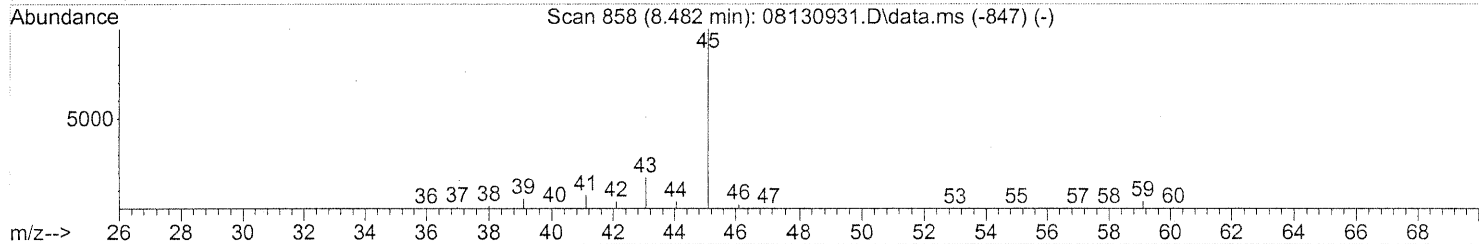
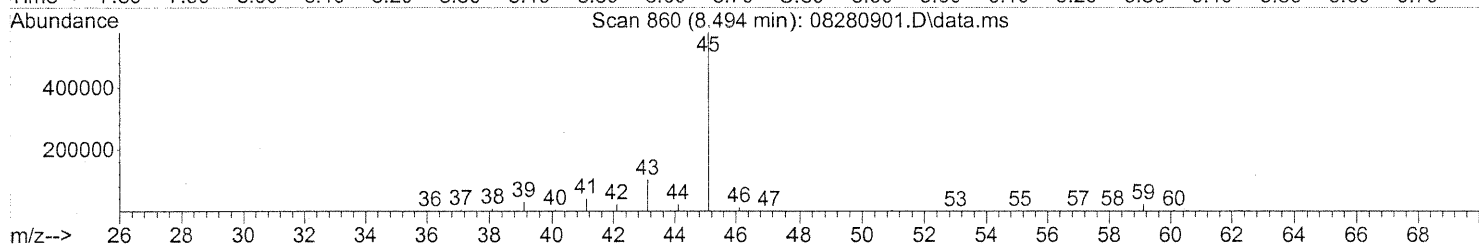
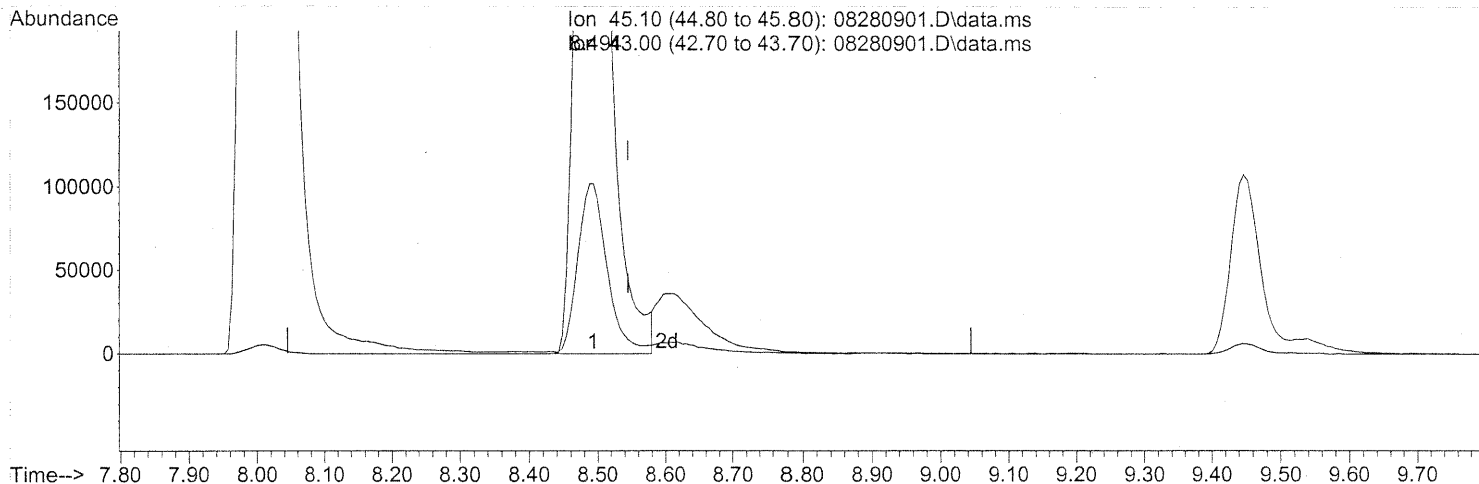
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.11
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
Can 8/28/09
in 8/31/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 07:09:18 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.494min (-0.051) 31.01ng

response 1712013

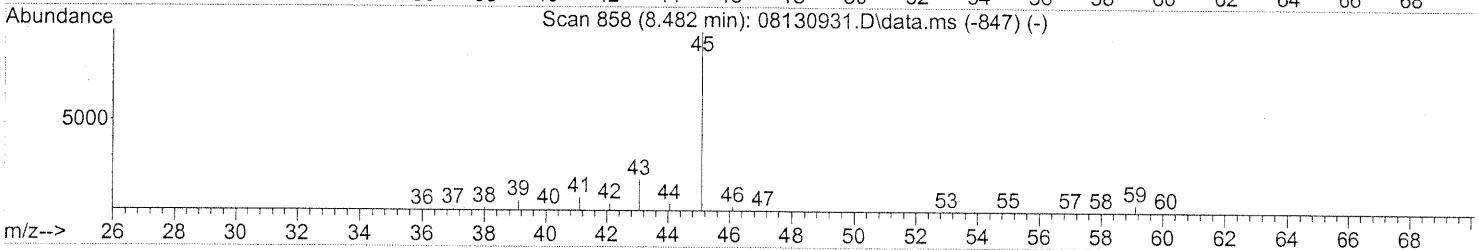
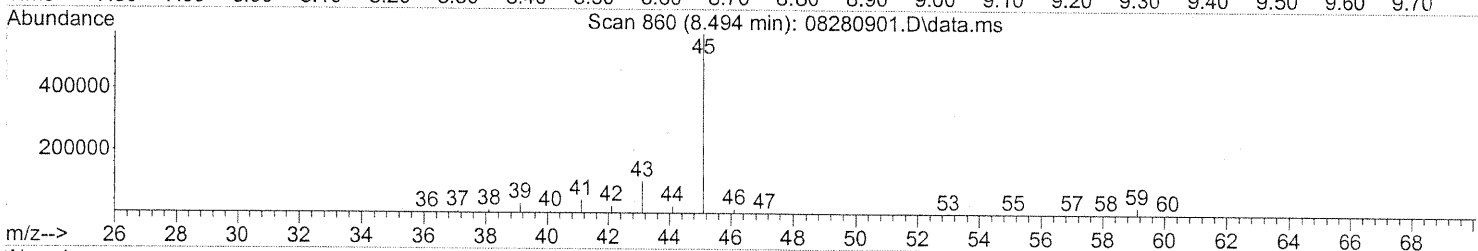
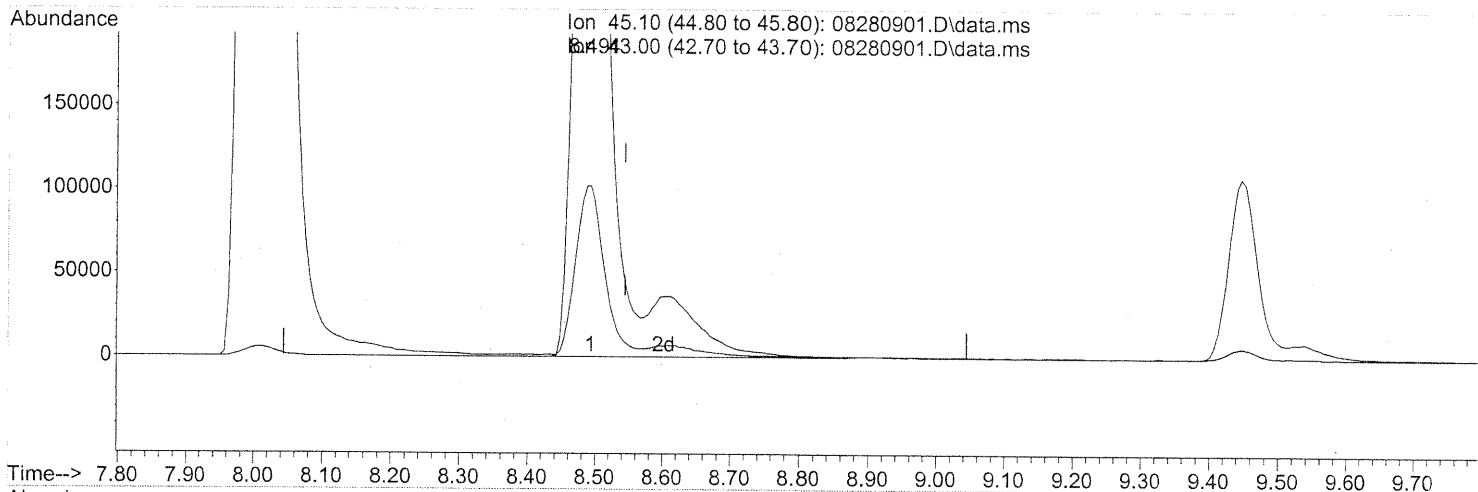
PT

ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 28 07:09:18 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.494min (-0.051) 34.33ng m

response 1895068

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	15.91
0.00	0.00	0.00
0.00	0.00	0.00

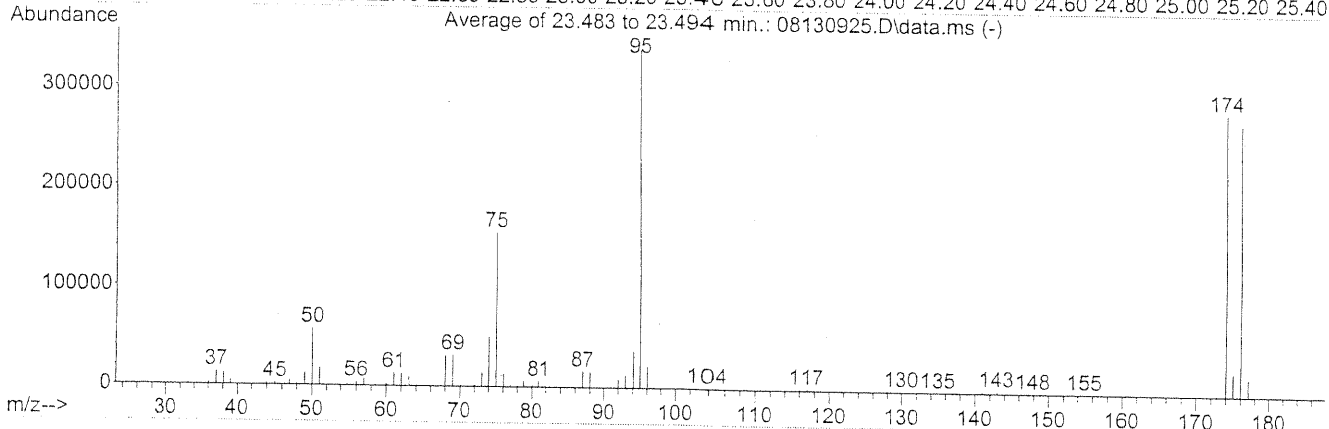
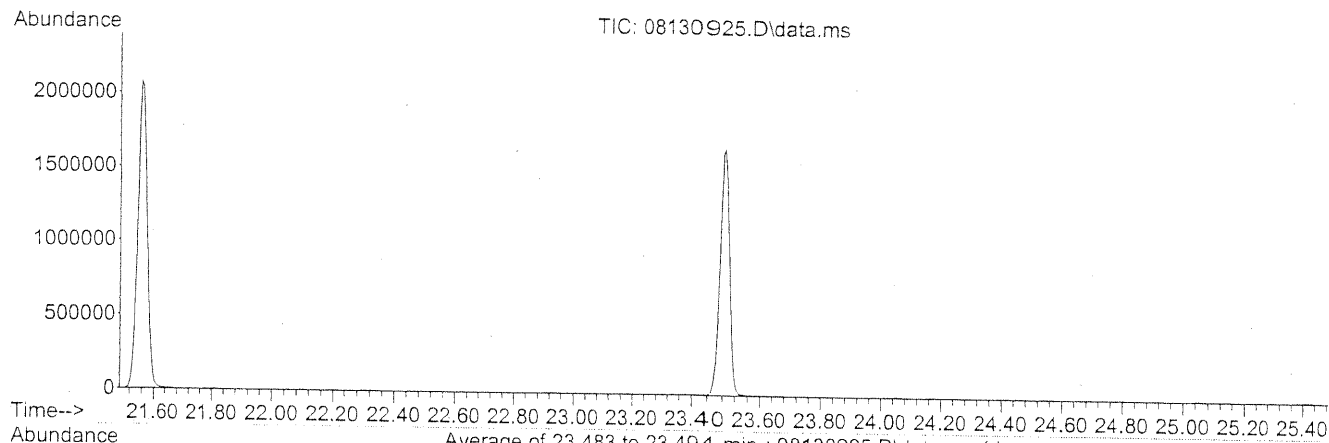
PT → IC
 em 8/28/09
 LH 8/31/09

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130925.D
 Acq On : 14 Aug 2009 1:14
 Operator : EM
 Sample : TO-15 BFB Standard (200ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Mon Jul 27 09:38:25 2009



AutoFind: Scans 3484, 3485, 3486; Background Corrected with Scan 3474

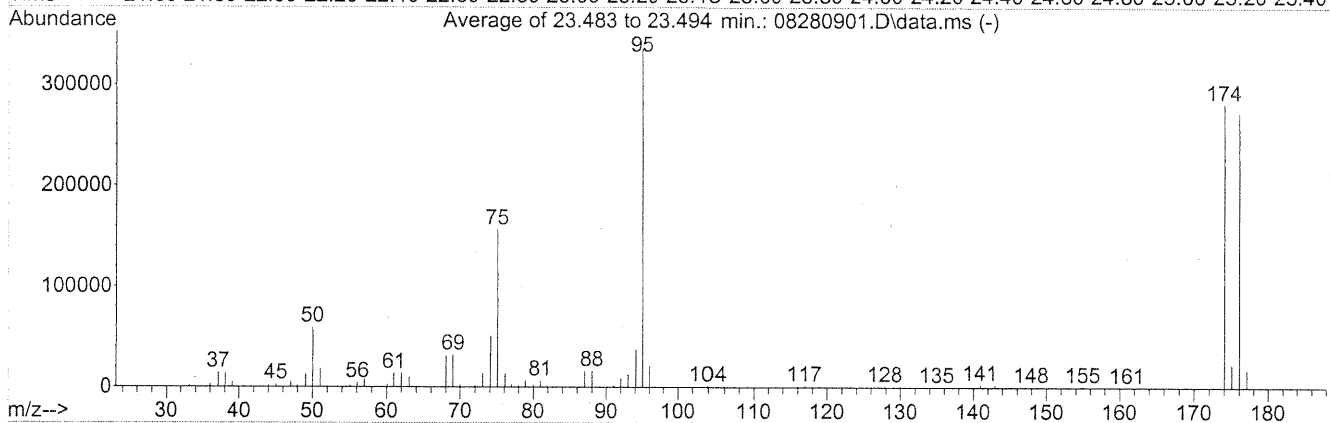
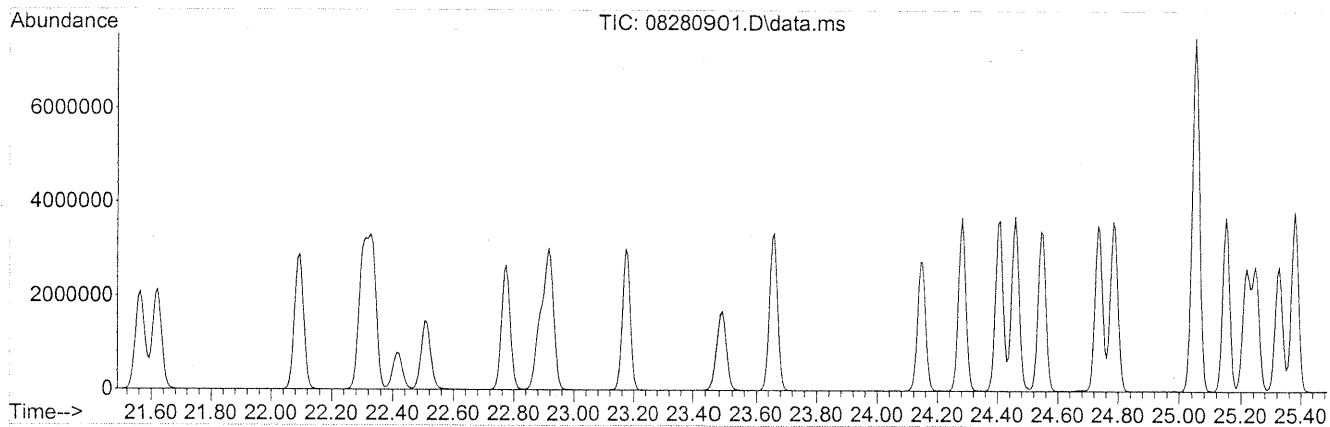
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	57432	PASS
75	95	30	66	45.6	154987	PASS
95	95	100	100	100.0	339563	PASS
96	95	5	9	6.4	21896	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.2	282475	PASS
175	174	4	9	8.1	22795	PASS
176	174	93	101	96.4	272171	PASS
177	176	5	9	6.4	17522	PASS

EM 8/14/09

Data Path : J:\MS09\Data\2009_08\28\
 Data File : 08280901.D
 Acq On : 28 Aug 2009 5:53
 Operator : EM
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 14 07:39:36 2009



AutoFind: Scans 3484, 3485, 3486; Background Corrected with Scan 3474

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.6	59128	PASS
75	95	30	66	46.6	156352	PASS
95	95	100	100	100.0	335637	PASS
96	95	5	9	6.4	21408	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.9	281536	PASS
175	174	4	9	8.0	22611	PASS
176	174	93	101	96.7	272363	PASS
177	176	5	9	6.4	17304	PASS

Em 8/28/09

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment	
1	08/13/09 6:23	08130901.D	25ng TO-15 CCV STD	S20-07200901/S20-07240905	EM	1	Pass	
2	08/13/09 7:04	08130902.D	25ng TO-15 AC&F STD	S20-07200901/S20-07220902	EM	16	Pass	
3	08/13/09 8:54	08130903.D	TO-15 Method Blank (1000ml)	S20-07200901	EM	1	Pass as MB	
4	08/13/09 10:01	08130904.D	P0902767-001 (5ml)	[REDACTED]	EM	1	Case File	
5	08/13/09 10:43	08130905.D	P0902767-002 (0.5ml)	[REDACTED]	EM	1	↓	
6	08/13/09 11:34	08130906.D	P0902780-001 (0.5ml)	[REDACTED]	EM	1	Case File	
7	08/13/09 12:15	08130907.D	P0902678-013 (30ml)	[REDACTED]	EM	5		
8	08/13/09 12:57	08130908.D	25ng TO-15 LCS STD	S20-07200901/S20-08070903	EM	2	Pass Acrylonitrile	
9	08/13/09 13:52	08130909.D	P0902780-002 (0.5ml)	[REDACTED]	EM	1		
10	08/13/09 14:33	08130910.D	P0902780-001 (1ml)	[REDACTED]	EM	1		
11	08/13/09 15:15	08130911.D	P0902780-001 dup (1ml)	[REDACTED]	EM	1	Pass as Lab Dup.	
12	08/13/09 16:15	08130912.D	P0902780-002 dil (0.1ml)	[REDACTED]	EM	1		
13	08/13/09 16:56	08130913.D	25ng std check	S20-08130905/S20-08070903	EM	2		
14	08/13/09 17:37	08130914.D	P0902678-013 dil (15ml)	[REDACTED]	EM	5		
15	08/13/09 18:19	08130915.D	P0902678-005 dil (100ml)	[REDACTED]	EM	9		
16	08/13/09 19:00	08130916.D	P0902678-011 dil (100ml)	[REDACTED]	EM	14		
17	08/13/09 19:41	08130917.D	P0902678-012 dil (100ml)	[REDACTED]	EM	15		
18	08/13/09 20:23	08130918.D	P0902678-014 (1000ml)	[REDACTED]	EM	6		
19	08/13/09 21:04	08130919.D	P0902678-014 dil (100ml)	[REDACTED]	EM	6		
20	08/13/09 21:46	08130920.D	P0902678-015 (1000ml)	[REDACTED]	EM	7		
21	08/13/09 22:28	08130921.D	P0902678-015 dil (100ml)	[REDACTED]	EM	7		
22	08/13/09 23:09	08130922.D	5ng std check	S20-08130905/S20-08100904	EM	1		
23	08/13/09 23:51	08130923.D	25ng std check	S20-08130905/S20-08100902	EM	1		
24	08/14/09 0:33	08130924.D	System Check		EM	4		
25	08/14/09 1:14	08130925.D	TO-15 BFB Standard (200ml)	S20-08130905	EM	1	Pass	
26	08/14/09 1:56	08130926.D	0.1ng TO-15 ICAL STD	S20-08130905/S20-07240912	EM	8	ICAL R9081309.M	
27	08/14/09 2:38	08130927.D	0.2ng TO-15 ICAL STD	S20-08130905/S20-07240912	EM	8		
28	08/14/09 3:19	08130928.D	0.5ng TO-15 ICAL STD	S20-08130905/S20-08100904	EM	1		
29	08/14/09 4:01	08130929.D	1.0ng TO-15 ICAL STD	S20-08130905/S20-08100904	EM	1		
30	08/14/09 4:43	08130930.D	5ng TO-15 ICAL STD	S20-08130905/S20-08100904	EM	1		
31	08/14/09 5:24	08130931.D	25ng TO-15 ICAL STD	S20-08130905/S20-08100902	EM	1		
32	08/14/09 6:06	08130932.D	50ng TO-15 ICAL STD	S20-08130905/S20-08100902	EM	1		
33	08/14/09 6:47	08130933.D	100ng TO-15 ICAL STD	S20-08130905/S20-08100902	EM	1		
34	08/14/09 7:29	08130934.D	25ng TO-15 ICV STD	S20-08130905/S20-08070903	EM	2		Pass
35	08/14/09 8:26	08130935.D	25ng TO-15 ICV STD	S20-08130905/S20-07270906	EM	10		Case File Extra

ICAL R9081309.M: 0.2ng-100ng: 1-Butanol, n-Butyl Acetate, 4-Methyl-2-pentanone
 0.5ng-100ng: Vinyl Acetate, 2-Butanone, Ethyl Acetate
 Methyl Methacrylate, 2-Hexanone
 0.1ng-50ng: TBA
 0.1ng-100ng: Rest of compounds.

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
19	08/27/09 22:28	08270919.D	P0902908-002 dil (100ml)	[REDACTED]	EM	11	
20	08/27/09 23:10	08270920.D	P0902908-003 (1000ml)	[REDACTED]	EM	12	
21	08/27/09 23:52	08270921.D	P0902908-003 dil (100ml)	[REDACTED]	EM	12	
22	08/28/09 0:35	08270922.D	P0902879-003 (15ml)	[REDACTED]	EM	8	
23	08/28/09 1:16	08270923.D	2899-001 (25ml)	Screen	EM	13	
24	08/28/09 2:00	08270924.D	Blank (200ml)		EM	1	
25	08/28/09 4:34	08270925.D	Blank (200ml)		EM	1	
26	08/28/09 5:11	08270926.D	System Check		EM	4	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/28/09 5:53	08280901.D	25ng TO-15 CCV STD	S20-08130905/S20-08100902	EM	1	Pass
2	08/28/09 6:35	08280902.D	25ng TO-15 ACF STD	S20-08130905/S20-07220902	EM	14	Pass
3	08/28/09 7:16	08280903.D	1.0ng TO-15 RL Check	S20-08130905/S20-08240905	EM	1	
4	08/28/09 7:58	08280904.D	TO-15 Method Blank (1000ml)	S20-08130905	EM	1	Pass as MB
5	08/28/09 8:39	08280905.D	25ng TO-15 LCS STD	S20-08130905/S20-08070903	EM	2	Pass
6	08/28/09 9:21	08280906.D	25ng TO-15 LCSD STD	S20-08130905/S20-08070903	EM	2	Pass
7	08/28/09 10:06	08280907.D	P0902962-001 (1ml)	[REDACTED]	EM	1	Case File
8	08/28/09 10:48	08280908.D	P0902962-001 (4ml)	[REDACTED]	EM	1	
9	08/28/09 11:35	08280909.D	P0902962-001 dup (4ml)	[REDACTED]	EM	1	Pass as lab Dup.
10	08/28/09 12:17	08280910.D	P0902962-002 (0.9ml)	[REDACTED]	EM	1	
11	08/28/09 12:58	08280911.D	P0902962-003 (25ml)	[REDACTED]	EM	5	Case File
12	08/28/09 13:40	08280912.D	P0902962-002 dil (0.1ml)	[REDACTED]	EM	1	
13	08/28/09 14:22	08280913.D	P0902962-003 (60ml)	[REDACTED]	EM	5	
14	08/28/09 15:04	08280914.D	P0902962-004 (60ml)	[REDACTED]	EM	6	
15	08/28/09 15:46	08280915.D	0.5ng TO-15 CRQL Check	S20-08130905/S20-08240905	EM	1	Pass
16	08/28/09 16:28	08280916.D	P0902962-007 (0.2ml)	[REDACTED]	EM	1	
17	08/28/09 17:09	08280917.D	25ng TO-15 Closing CCV STD	S20-08130905/S20-08100902	EM	1	Pass
18	08/28/09 18:14	08280918.D	Blank (200ml)	S20-08130905	EM	1	
19	08/28/09 18:56	08280919.D	P0902899-006 (1000ml)	Env. H & E 102520	EM	15	
20	08/28/09 19:37	08280920.D	P0902899-001 (1000ml)	Env. H & E 102515	EM	13	
21	08/28/09 20:19	08280921.D	P0902899-001 dil (100ml)	Env. H & E 102515	EM	13	
22	08/28/09 21:00	08280922.D	P0902899-002 (1000ml)	Env. H & E 102516	EM	9	
23	08/28/09 21:42	08280923.D	P0902899-002 dil (100ml)	Env. H & E 102516	EM	9	
24	08/28/09 22:24	08280924.D	P0902899-003 (1000ml)	Env. H & E 102517	EM	10	
25	08/28/09 23:06	08280925.D	P0902899-003 dil (100ml)	Env. H & E 102517	EM	10	Case File
26	08/28/09 23:48	08280926.D	P0902899-004 (1000ml)	Env. H & E 102518	EM	11	
27	08/29/09 0:30	08280927.D	P0902899-004 dil (100ml)	Env. H & E 102518	EM	11	
28	08/29/09 1:12	08280928.D	P0902899-005 (1000ml)	Env. H & E 102519	EM	12	
29	08/29/09 1:54	08280929.D	P0902899-005 dil (100ml)	Env. H & E 102519	EM	12	
30	08/29/09 2:37	08280930.D	Blank (200ml)		EM	1	
31	08/29/09 7:04	08280931.D	Blank (200ml)		EM	1	
32	08/29/09 7:41	08280932.D	System Check		EM	-	