AMEC

PALOMAR STREET
(NB1016075P)

H&P PROJECT # AEE111513-11

LEVEL IV DATA PACKAGE

TO-15 ANALYTICAL DATA
11/19-20/13

TO-15 ANALYSIS LOG
Lab #: **TO-15**
Instrument #: HPMS **12**

Client(s): AMEC

H&P Project #'s: AEE111513-11

Page: **1** of **1**
Operator: ***CSP***
Date: **11/19/2013**

Work Order(s): E311062

Ical Method(s): **102313ppbV-250cc** **082113-TPH-250cc**
Analyses: **TO-15**
Batch #'s: **EK31912**

Standards

1st Src ID	ACC-1037	Exp.	11/21/2013	Conc. - 10 ppbV	cc Injection:	50
2nd Src ID	ACC-1044	Exp.	12/12/2013	Conc. - 10 ppbV	cc Injection:	50
TPH Std	ACC-1039	Exp.	12/4/2103	Conc. - 250 ppbV	cc Injection:	50

IS/SU ID	AIS-613	Exp.	11/21/2013	Conc. - 50 ppbV	cc Injection:	50

Preparation Log

Workorder Number	status	Sample Dilution	volume analyzed(cc)	final dilution factor
BLANK-50cc		1.00	50	1.00
Methanol-8uG-L		1.00	50	1.00
50cc10ppbV		1.00	50	1.00
50cc10ppbV		1.00	50	1.00
50cc10ppbV		1.00	50	1.00
BLANK-50cc		1.00	50	5.00
50cc10ppbV		1.00	50	1.00
50cc10ppbV		1.00	50	1.00
BLANK-50cc		1.00	50	5.00
Methanol-79uG-kG		1.00	50	5.00
50cc10ppbV		1.00	50	1.00
50cc10ppbV		1.00	50	1.00
BLANK-50cc		1.00	50	5.00
Methanol-1600uG-kG		1.00	50	5.00
Methanol-16uG-kG		1.00	50	5.00
BLANK-50cc		1.00	50	5.00
E311062-01		2.52	126	5.00
E311062-02		2.44	122	5.00
E311062-03		2.37	119	5.00
E311062-04		2.74	137	5.00
E311062-05		2.33	117	5.00
E311062-06		2.50	125	5.00
E311062-07		2.43	121	5.00

Run Log

Lab Temp (°C) high: **25** low: **21**

stn/ port #	Sample Name	Data File Name	Comments
3-1	BLANK-50cc	BLANK-50cc	
1-1	Methanol-test	Methanol-test	
3-1	CCV2A	CCV2A	
3-1	CCV2B	CCV2B	
3-1	CCV2C	CCV2C	
3-1	BLANK2-50cc	BLANK2-50cc	
3-1	CCV2D	CCV2D	OK
3-1	CCV2E	CCV2E	OK
3-1	BLANK3-50cc	BLANK3-50cc	OK
1-2	Methanol-cal	Methanol-cal	
3-15	LCS	LCS	OK
3-15	LCSD	LCSD	OK
3-1	BLANK4-50cc	BLANK4-50cc	OK
1-3	Methanol-cal1600	Methanol-cal1600	OK
1-4	Methanol-cal16	Methanol-cal16	OK
3-1	BLANK5-50cc	BLANK5-50cc	OK
1-5	AMEC-14G-SV	AMEC-14G-SV	OK
1-6	AMEC-14B-SV	AMEC-14B-SV	OK
1-7	AMEC-3B-SV	AMEC-3B-SV	OK
1-8	AMEC-3G-SV	AMEC-3G-SV	OK
1-9	AMEC-10L-SV	AMEC-10L-SV	OK
1-10	AMEC-10B-SV	AMEC-10B-SV	OK
1-11	AMEC-10B-SV-rep	AMEC-10B-SV-rep	OK

Analytst Signature: CSPaisa

GCMS #12

INTERNAL STANDARD SUMMARY LOG FOR 11/19/2013

Method File Name: 102313ppbV-250cc

Client sample name	Sample Name	Bromochloromethane R.T.	Bromochloromethane Response	1,4-Difluorobenzene R.T.	1,4-Difluorobenzene Response	Chlorobenzene-d5 R.T.	Chlorobenzene-d5 Response
CCV2E.D	50cc10ppbV	7.36	140123	8.61	537773	11.13	269539
BLANK3-50cc.D	EK31912-BLK1	7.37	119775	8.61	447941	11.13	225811
LCS.D	EK31912-BS1	7.37	103254	8.62	415843	11.13	217699
LCSD.D	EK31912-BSD1	7.37	112505	8.62	444878	11.13	228271
AMEC-14G-SV.D	E311062-01	7.37	131984	8.62	520256	11.13	278290
AMEC-14B-SV.D	E311062-02	7.37	141920	8.62	553317	11.13	297972
AMEC-3B-SV.D	E311062-03	7.37	146578	8.61	555516	11.12	292623
AMEC-3G-SV.D	E311062-04	7.37	150182	8.62	570092	11.13	299595
AMEC-10L-SV.D	E311062-05	7.37	180740	8.61	859502	11.13	368078
AMEC-10B-SV.D	E311062-06	7.38	125109	8.63	552674	11.13	286671
AMEC-10B-SV-rep.D	E311062-07	7.37	148341	8.62	567891	11.13	297673

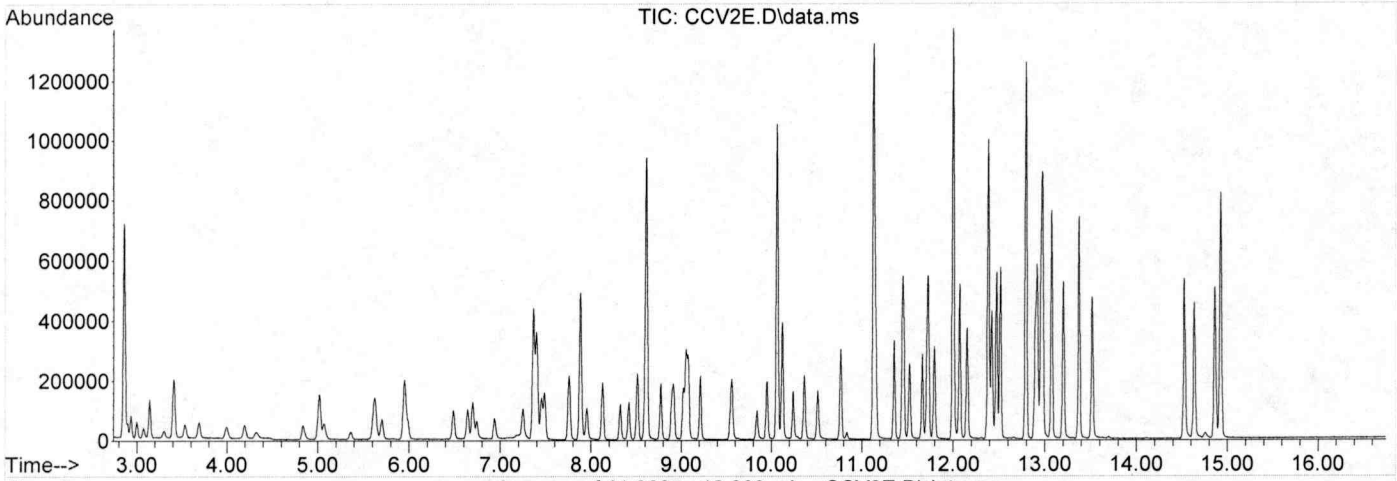
Acceptance Range Minimum	ICAL Average	7.03	86520	8.28	318061	10.80	170013
Acceptance Range Maximum	ICAL Average	7.69	201881	8.94	742142	11.46	396697

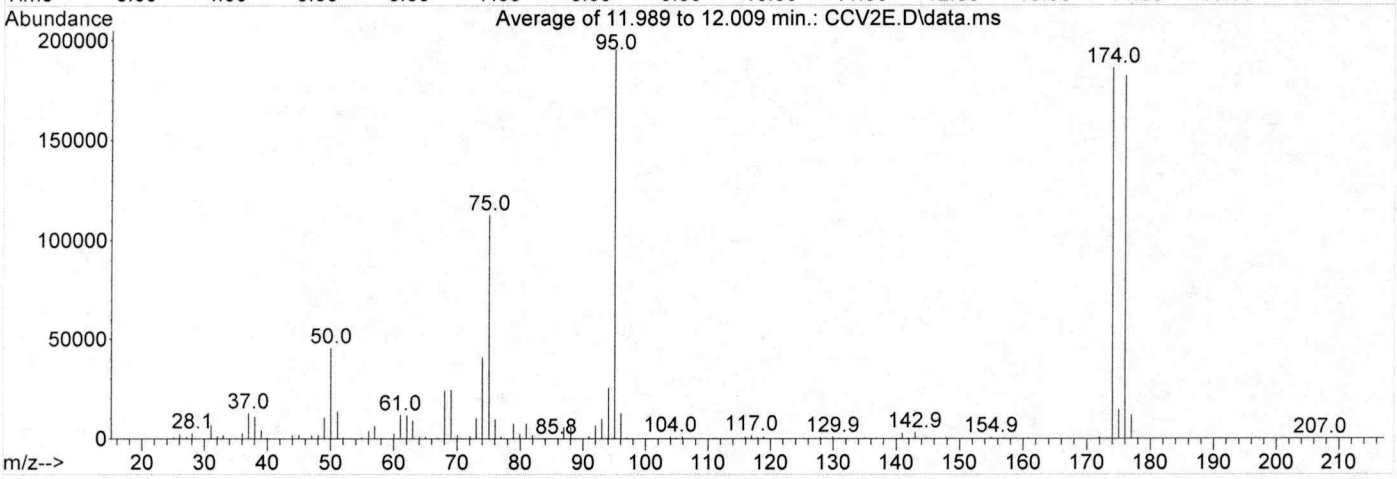
*Acceptance Range Minimum	Initial CCV	7.03	84074	8.28	322664	10.80	161723
*Acceptance Range Maximum	Initial CCV	7.69	196172	8.94	752882	11.46	377355

Data Path : D:\DATA\111913.1p\
Data File : CCV2E.D
Acq On : 19 Nov 2013 5:53 pm
Operator : slc
Sample : 50cc10ppbV
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Title : EPA TO-15 GC/MS #12
Last Update : Tue Dec 24 14:21:56 2013





Spectrum Information: Average of 11.989 to 12.009 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.4	45735	PASS
75	95	30	66	57.7	112659	PASS
95	95	100	100	100.0	195168	PASS
96	95	5	9	6.6	12930	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	95.3	185960	PASS
175	174	4	9	7.9	14692	PASS
176	174	93	101	97.8	181953	PASS
177	176	5	9	6.6	12003	PASS

Evaluate Continuing Calibration Report

Data Path : D:\DATA\111913.1p\
Data File : CCV2E.D
Acq On : 19 Nov 2013 5:53 pm
Operator : slc
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 20 09:21:39 2013
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : 50cc10ppbV Inst : GCMS#12

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2	T	1,1,1-trifluoroethane	1.815	2.519	-38.8#	160#	0.00
3	T	1,1,1,2-Tetrafluoroethane	4.951	6.503	-31.3#	130	0.00
4	T	1,1,-Difluoroethane	4.215	5.046	-19.7	121	0.00
5	T,C	Propene	2.107	2.286	-8.5	112	0.00
6	T,C	Dichlorodifluoromethane	14.302	17.862	-24.9	123	0.00
7	T,C	Chloromethane	3.591	4.082	-13.7	113	0.00
8	T,C	Dichlorotetrafluoroethane	16.437	18.673	-13.6	107	0.00
9	T,C	Vinyl Chloride	4.307	4.892	-13.6	109	0.00
10	T,C	1,3-Butadiene	2.940	3.194	-8.6	108	0.00
11	T,C	Bromomethane	4.905	5.255	-7.1	99	0.00
12	T,C	Chloroethane	2.232	2.456	-10.0	103	0.00
13	T,C	Ethanol	2.006	1.680	16.3	76	0.00
14	T,C	Acetone	10.699	10.890	-1.8	100	0.00
15	T,C	Trichlorofluoromethane	22.321	24.591	-10.2	107	0.00
16	T,C	Isopropanol	10.120	9.233	8.8	99	0.00
17	T,C	1,1-Dichloroethene	9.925	10.674	-7.5	106	0.00
18	T,C	tert-Butanol	14.384	13.292	7.6	101	0.00
19	T,C	Methylene chloride	6.599	6.661	-0.9	98	0.00
20	T,C	1,1,2-Trichlorotrifluoroeth	14.451	13.630	5.7	93	0.00
21	T,C	Carbon Disulfide	14.723	13.372	9.2	92	0.00
22	T,C	trans-1,2-Dichloroethene	8.789	8.619	1.9	97	0.00
23	T,C	1,1-Dichloroethane	11.083	11.075	0.1	97	0.00
24	T,C	Methyl-tert-Butyl Ether	16.304	15.062	7.6	97	0.00
25	T,C	Vinyl Acetate	1.009	0.943	6.5	96	0.00
26	T,C	2-Butanone	11.534	10.932	5.2	98	0.00
27	T,C	cis-1,2-Dichloroethene	7.880	7.590	3.7	96	0.00
28	T,C	Ethyl Acetate	1.206	1.264	-4.8	109	0.00
29	T,C	Diisopropyl Ether	13.977	15.922	-13.9	114	0.00
30	T,C	Hexane	5.855	6.635	-13.3	111	0.00
31	T,C	Chloroform	13.508	15.352	-13.7	115	0.00
32	T,C	2,2 Dichloropropane	12.530	13.768	-9.9	111	0.00
33	T,C	Tetrahydrofuran	1.779	1.903	-7.0	109	0.00
34	T,C	Ethyl-tert-Butyl Ether	12.562	15.384	-22.5	119	0.00
35	S	1,2-Dichloroethane-d4	1.835	1.943	-5.9	104	0.00
36	T,C	1,2-Dichloroethane	10.283	11.480	-11.6	114	0.00
37	T,C	1,1,1-Trichloroethane	15.330	17.260	-12.6	113	0.00
38	T,C	1,1-Dichloropropene	2.297	2.332	-1.5	109	0.00
39	T,C	Benzene	13.063	14.694	-12.5	115	0.00
40	T,C	Carbon Tetrachloride	17.547	20.103	-14.6	115	0.00
41	I	Difluorobenzene	1.000	1.000	0.0	105	0.00
42	T,C	Cyclohexane	1.628	1.757	-7.9	118	0.00
43	T,C	tert-Amyl Methy Ether (TAME	3.351	3.527	-5.3	116	0.00
44	T,C	Dibromomethane	1.928	1.919	0.5	110	0.00
45	T,C	1,2-Dichloropropane	1.288	1.391	-8.0	118	0.00
46	T,C	Bromodichloromethane	4.052	4.151	-2.4	112	0.00
47	T,C	1,4-Dioxane	0.939	0.818	12.9	97	0.00
48	T,C	Trichloroethene	2.140	2.454	-14.7	118	0.00

Evaluate Continuing Calibration Report

Data Path : D:\DATA\111913.1p\
Data File : CCV2E.D
Acq On : 19 Nov 2013 5:53 pm
Operator : slc
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 20 09:21:39 2013
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : 50cc10ppbV Inst : GCMS#12

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T,C	2,2,4 Trimethylpentane	5.527	6.365	-15.2	119	0.00
50	T,C	Heptane	1.042	1.126	-8.1	113	0.00
51	T,C	cis-1,3-Dichloropropene	2.101	2.104	-0.1	112	0.00
52	T,C	4-Methyl-2-Pentanone	2.842	3.227	-13.5	114	0.00
53	T,C	trans-1,3-Dichloropropene	2.041	1.889	7.4	113	0.00
54	T,C	1,1,2-Trichloroethane	1.950	2.018	-3.5	115	0.00
55	S	Toluene-d8	0.931	0.953	-2.4	106	0.00
56	T,C	Toluene	5.945	5.739	3.5	114	0.00
57	T,C	1,3 Dichloropropane	2.793	2.756	1.3	114	0.00
58	T,C	2-Hexanone	2.985	3.268	-9.5	119	0.00
59	T,C	Dibromochloromethane	4.476	4.466	0.2	114	0.00
60	T,C	1,2-Dibromoethane (EDB)	3.157	3.092	2.1	115	0.00
61	T,C	Tetrachloroethene	3.489	3.295	5.6	112	0.00
62	T,C	1,1,1,2-Tetrachloroethane	3.806	3.672	3.5	114	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64	T,C	Chlorobenzene	10.801	10.705	0.9	114	0.00
65	T,C	Ethylbenzene	13.690	15.582	-13.8	114	0.00
66	T,C	m,p-Xylene	12.665	14.591	-15.2	115	0.00
67	T,C	Bromoform	10.295	10.358	-0.6	111	0.00
68	T,C	Styrene	7.894	8.974	-13.7	113	0.00
69	T,C	1,1,2,2-Tetrachloroethane	10.772	9.926	7.9	110	0.00
70	T,C	o-Xylene	13.837	16.315	-17.9	117	0.00
71	T,C	1,2,3-Trichloropropane	9.070	9.395	-3.6	112	0.00
72	S	4-Bromofluorobenzene	1.209	1.252	-3.6	100	0.00
73	T,C	Isopropylbenzene	20.932	23.577	-12.6	116	0.00
74	T,C	Bromobenzene	7.886	8.333	-5.7	114	0.00
75	T,C	2-Chlorotoluene	5.656	6.456	-14.1	115	0.00
76	T,C	n-Propylbenzene	42.879	50.656	-18.1	116	0.00
77	T,C	4-Chlorotoluene	5.360	6.046	-12.8	116	0.00
78	T,C	4-Ethyltoluene	21.744	26.004	-19.6	113	0.00
79	T,C	1,3,5-Trimethylbenzene	19.526	23.352	-19.6	113	0.00
80	T,C	tert-Butylbenzene	22.206	26.805	-20.7	115	0.00
81	T,C	1,2,4-Trimethylbenzene	20.403	24.407	-19.6	114	0.00
82	T,C	Benzyl Chloride	17.129	19.525	-14.0	115	0.00
83	T,C	1,3-Dichlorobenzene	15.476	17.207	-11.2	115	0.00
84	T,C	1,4-Dichlorobenzene	15.500	18.026	-16.3	116	0.00
85	T,C	sec-Butylbenzene	29.143	35.342	-21.3	116	0.00
86	T,C	p-Isopropyltoluene	24.704	31.418	-27.2	114	0.00
87	T,C	1,2-Dichlorobenzene	14.677	16.918	-15.3	116	0.00
88	T,C	n-Butylbenzene	21.151	28.343	-34.0#	117	0.00
89	T,C	1,2 Dibromo-3-chloropropane	8.642	9.930	-14.9	112	0.00
90	T,C	1,2,4-Trichlorobenzene	10.615	14.649	-38.0#	121	0.00
91	T,C	Naphthalene	20.166	30.309	-50.3#	122	0.00
92	T,C	1,2,3-Trichlorobenzene	9.875	14.060	-42.4#	119	0.00
93	T,C	Hexachlorobutadiene	13.181	17.317	-31.4#	120	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : CCV2E.D
Acq On : 19 Nov 2013 5:53 pm
Operator : slc
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 30 10:59:47 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : 50cc10ppbV Inst : GCMS#12

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.363	130	140123	50.00	ppbV	0.00
41) Difluorobenzene	8.612	114	537773	50.00	ppbV	0.00
63) Chlorobenzene-d5	11.128	82	269539	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.882	65	272215	52.95	ppbV	0.00
Spiked Amount 50.000			Recovery = 105.90%			
55) Toluene-d8	10.063	98	512426	51.18	ppbV	0.00
Spiked Amount 50.000			Recovery = 102.36%			
72) 4-Bromofluorobenzene	11.998	95	337436	51.75	ppbV	0.00
Spiked Amount 50.000			Recovery = 103.50%			
Target Compounds						Qvalue
2) 1,1,1-trifluoroethane	2.896	65	14116	2.775	ppbV	87
3) 1,1,1,2-Tetrafluoroethane	2.935	83	36451	2.627	ppbV	96
4) 1,1,-Difluoroethane	2.999	51	28283	2.395	ppbV	98
5) Propene	3.074	41	12815	2.174	ppbV	98
6) Dichlorodifluoromethane	3.141	85	100117	2.498	ppbV	100
7) Chloromethane	3.303	50	22877	2.273	ppbV	97
8) Dichlorotetrafluoroethane	3.406	85	104661	2.272	ppbV	99
9) Vinyl Chloride	3.534	62	27417	2.271	ppbV	98
10) 1,3-Butadiene	3.688	54	17904	2.175	ppbV	96
11) Bromomethane	3.997	94	29452	2.143	ppbV	98
12) Chloroethane	4.192	64	13764	2.162	ppbV	83
13) Ethanol	4.318	45	9418	1.675	ppbV	100
14) Acetone	4.839	43	61039	2.036	ppbV	90
15) Trichlorofluoromethane	5.012	101	137832	2.203	ppbV	100
16) Isopropanol	5.065	45	51751	1.825	ppbV	100
17) 1,1-Dichloroethene	5.612	61	59828	2.151	ppbV	97
18) tert-Butanol	5.631	59	74503	1.848	ppbV	89
19) Methylene chloride	5.704	49	37335	2.019	ppbV	98
20) 1,1,2-Trichlorotrifluo...	5.949	101	76397	1.886	ppbV	99
21) Carbon Disulfide	5.988	76	74950	1.816	ppbV	98
22) trans-1,2-Dichloroethene	6.487	61	48311	1.962	ppbV	98
23) 1,1-Dichloroethane	6.641	63	62074	1.999	ppbV	99
24) Methyl-tert-Butyl Ether	6.699	73	84419	1.848	ppbV #	91
25) Vinyl Acetate	6.744	86	5287	1.945	ppbV #	91
26) 2-Butanone	6.936	43	61273	1.896	ppbV	96
27) cis-1,2-Dichloroethene	7.246	61	42540	1.926	ppbV	99
28) Ethyl Acetate	7.397	70	7084	2.070	ppbV	89
29) Diisopropyl Ether	7.394	45	89242	2.278	ppbV	85
30) Hexane	7.405	57	37188	2.266	ppbV	95
31) Chloroform	7.452	83	86049	2.273	ppbV	99
32) 2,2 Dichloropropane	7.486	77	77171	2.198	ppbV	99
33) Tetrahydrofuran	7.745	71	10667	2.213	ppbV	86
34) Ethyl-tert-Butyl Ether	7.759	59	86228	2.449	ppbV	100
36) 1,2-Dichloroethane	7.952	62	64343	2.233	ppbV	98
37) 1,1,1-Trichloroethane	8.127	97	96741	2.252	ppbV	99
38) 1,1-Dichloropropene	8.322	110	13072	2.123	ppbV	98
39) Benzene	8.420	78	82360	2.250	ppbV	99
40) Carbon Tetrachloride	8.512	117	112678	2.291	ppbV	99
42) Cyclohexane	8.598	84	37803	2.159	ppbV	99

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : CCV2E.D
Acq On : 19 Nov 2013 5:53 pm
Operator : slc
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 30 10:59:47 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : 50cc10ppbV Inst : GCMS#12

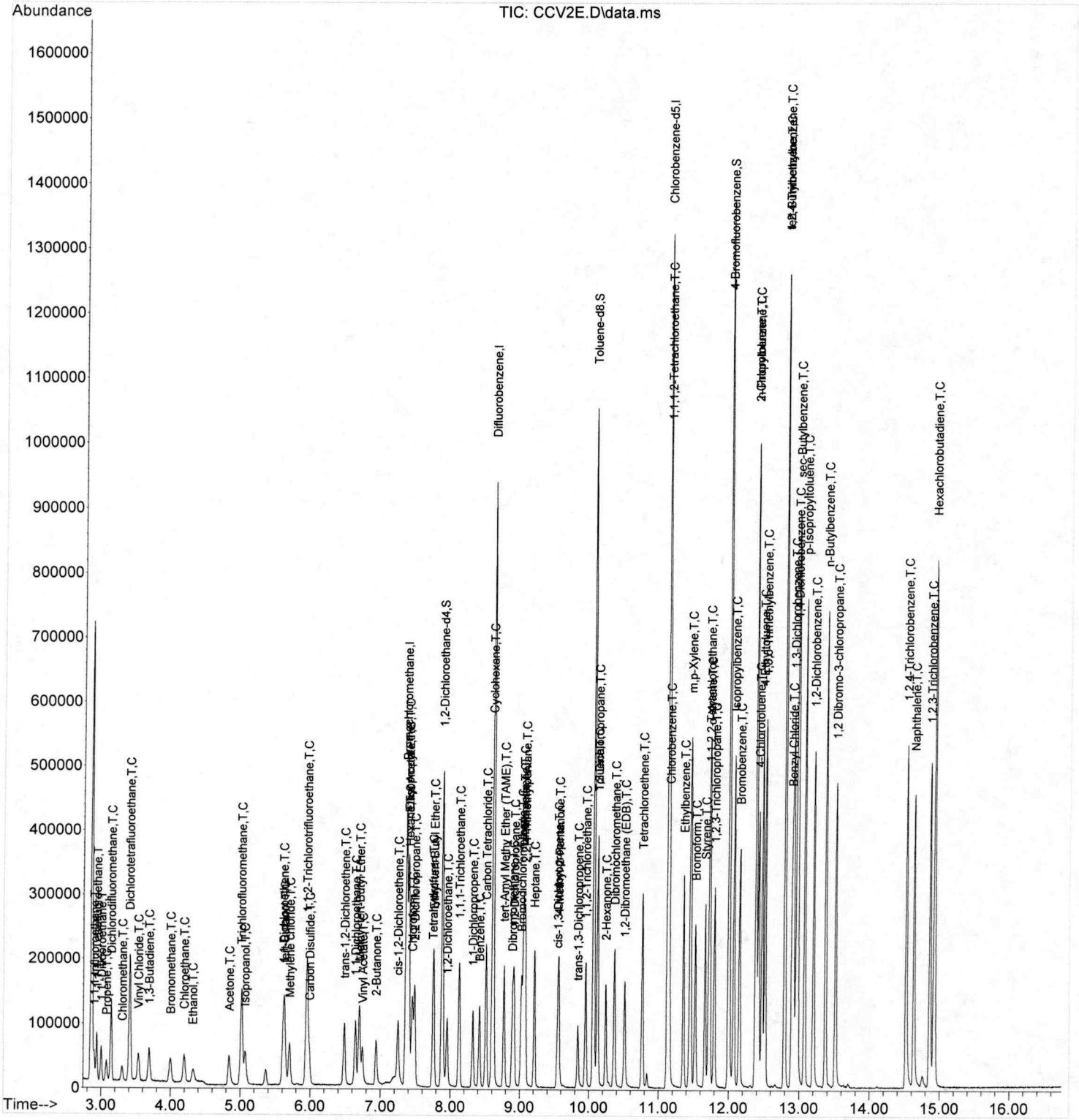
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43)	tert-Amyl Methy Ether ...	8.771	73	75869	2.105 ppbV	92
44)	Dibromomethane	8.891	93	41273	1.991 ppbV	98
45)	1,2-Dichloropropane	8.914	63	29931	2.160 ppbV	95
46)	Bromodichloromethane	9.022	83	89288	2.049 ppbV	96
47)	1,4-Dioxane	9.053	88	17604	1.742 ppbV	96
48)	Trichloroethene	9.050	95	52779	2.293 ppbV	95
49)	2,2,4 Trimethylpentane	9.075	57	136923	2.303 ppbV	97
50)	Heptane	9.209	71	24218	2.161 ppbV	95
51)	cis-1,3-Dichloropropene	9.547	75	45264	2.003 ppbV	96
52)	4-Methyl-2-Pentanone	9.561	43	69406	2.271 ppbV	98
53)	trans-1,3-Dichloropropene	9.839	75	40638	1.851 ppbV	97
54)	1,1,2-Trichloroethane	9.948	97	43403	2.069 ppbV	97
56)	Toluene	10.121	91	123458	1.931 ppbV	100
57)	1,3 Dichloropropane	10.121	76	59274	1.973 ppbV	100
58)	2-Hexanone	10.241	43	70294	2.190 ppbV	94
59)	Dibromochloromethane	10.366	129	96062	1.995 ppbV	100
60)	1,2-Dibromoethane (EDB)	10.511	107	66503	1.959 ppbV	99
61)	Tetrachloroethene	10.765	166	70875	1.888 ppbV	99
62)	1,1,1,2-Tetrachloroethane	11.139	131	78994	1.930 ppbV	100
64)	Chlorobenzene	11.153	112	115413	1.982 ppbV	99
65)	Ethylbenzene	11.356	91	168001	2.276 ppbV	99
66)	m,p-Xylene	11.451	91	314625	4.608 ppbV	100
67)	Bromoform	11.524	173	111674	2.012 ppbV	99
68)	Styrene	11.663	104	96751	2.273 ppbV	99
69)	1,1,2,2-Tetrachloroethane	11.716	83	107017	1.843 ppbV	99
70)	o-Xylene	11.730	91	175901	2.358 ppbV	98
71)	1,2,3-Trichloropropane	11.794	75	101291	2.072 ppbV	99
73)	Isopropylbenzene	12.070	105	254193	2.253 ppbV	98
74)	Bromobenzene	12.154	156	89840	2.113 ppbV	98
75)	2-Chlorotoluene	12.380	126	69608	2.283 ppbV	99
76)	n-Propylbenzene	12.383	91	546156	2.363 ppbV	99
77)	4-Chlorotoluene	12.419	126	65187	2.256 ppbV	91
78)	4-Ethyltoluene	12.472	105	280366	2.392 ppbV	99
79)	1,3,5-Trimethylbenzene	12.514	105	256395	2.436 ppbV	97
80)	tert-Butylbenzene	12.793	119	289000	2.414 ppbV	99
81)	1,2,4-Trimethylbenzene	12.790	105	263142	2.392 ppbV	100
82)	Benzyl Chloride	12.893	91	210508	2.280 ppbV	98
83)	1,3-Dichlorobenzene	12.912	146	185515	2.224 ppbV	99
84)	1,4-Dichlorobenzene	12.957	146	198264	2.373 ppbV	98
85)	sec-Butylbenzene	12.974	105	381038	2.425 ppbV	99
86)	p-Isopropyltoluene	13.074	119	338733	2.543 ppbV	99
87)	1,2-Dichlorobenzene	13.200	146	182406	2.305 ppbV	99
88)	n-Butylbenzene	13.373	91	305581	2.680 ppbV	99
89)	1,2 Dibromo-3-chloropr...	13.515	75	107061	2.298 ppbV	97
90)	1,2,4-Trichlorobenzene	14.522	180	157942	2.760 ppbV	100
91)	Naphthalene	14.633	128	326777	3.006 ppbV	100
92)	1,2,3-Trichlorobenzene	14.859	180	151588	2.848 ppbV	98
93)	Hexachlorobutadiene	14.923	225	186704	2.628 ppbV	98

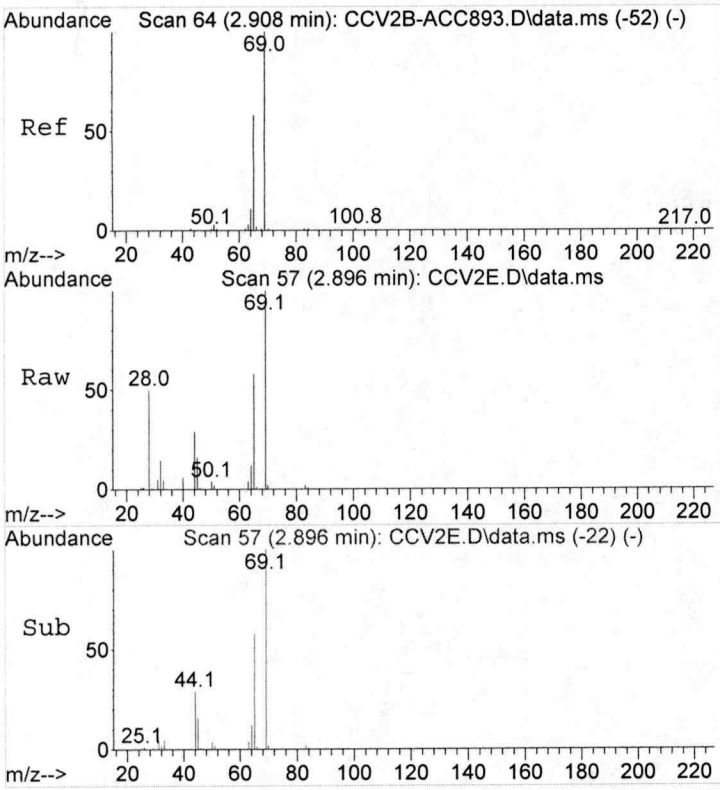
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : CCV2E.D
Acq On : 19 Nov 2013 5:53 pm
Operator : slc
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 30 10:59:47 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : 50cc10ppbV Inst : GCMS#12

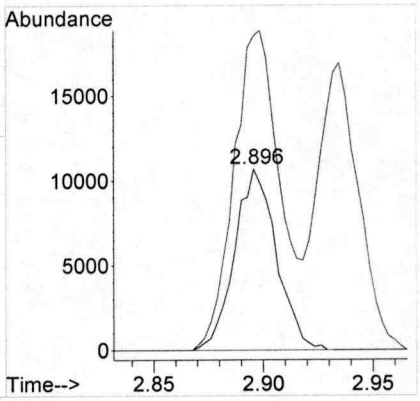

Abundance
TIC: CCV2E.D\data.ms
Time-->
Chlorobenzene-d5,I
Toluene-d8,S
Difluorobenzene,I
1,2-Dichloroethane-d4,S
Bromofluorobenzene,S
Hexachlorobutadiene,T,C
Naphthalene,T,C
1,2,3-Trichlorobenzene,T,C
1,2-Dibromo-3-chloropropane,T,C
n-Butylbenzene,T,C
p-Isopropyltoluene,T,C
sec-Butylbenzene,T,C
1,2-Dichlorobenzene,T,C
Benzyl Chloride,T,C
Isopropylbenzene,T,C
Bromobenzene,T,C
m,p-Xylene,T,C
Ethylbenzene,T,C
Chlorobenzene,T,C
Tetrachloroethene,T,C
1,2-Dibromoethane (EDB),T,C
Styrene,T,C
Bromoform,T,C
Toluene,T,C
Heptane,T,C
Cyclohexene,T,C
Carbon Tetrachloride,T,C
1,2-Dichloroethane,T,C
1,1,1-Trichloroethane,T,C
Benzene,T,C
cis-1,2-Dichloroethene,T,C
trans-1,2-Dichloroethene,T,C
2-Butanone,T,C
Carbon Disulfide,T,C
Methylene Chloride,T,C
Isopropanol,T,C
Acetone,T,C
Ethanol,T,C
Chloroethane,T,C
Bromomethane,T,C
1,3-Butadiene,T,C
Vinyl Chloride,T,C
Chloromethane,T,C
Dichlorodifluoromethane,T,C
Dichlorotetrafluoroethane,T,C
Propene,T,C
1,1-Dichloroethane,T,C
1,1,1-Trichloroethane,T,C
Chloroform,T,C
Tetrachloroethane,T,C
Ethyl Ether,T,C
Vinyl Acetate,T,C
Methyl Ethyl Ketone,T,C
Methyl Butyl Ketone,T,C
Methyl Isobutyl Ketone,T,C
Methyl Tert Butyl Ether,T,C
Methyl Methacrylate,T,C
Methyl Acrylonitrile,T,C
Methyl Methacrylate,T,C
Methyl Acrylate,T,C
Methyl Methacrylate,T,C
Methyl Acrylate,T,C
Methyl Methacrylate,T,C
Methyl Acrylate

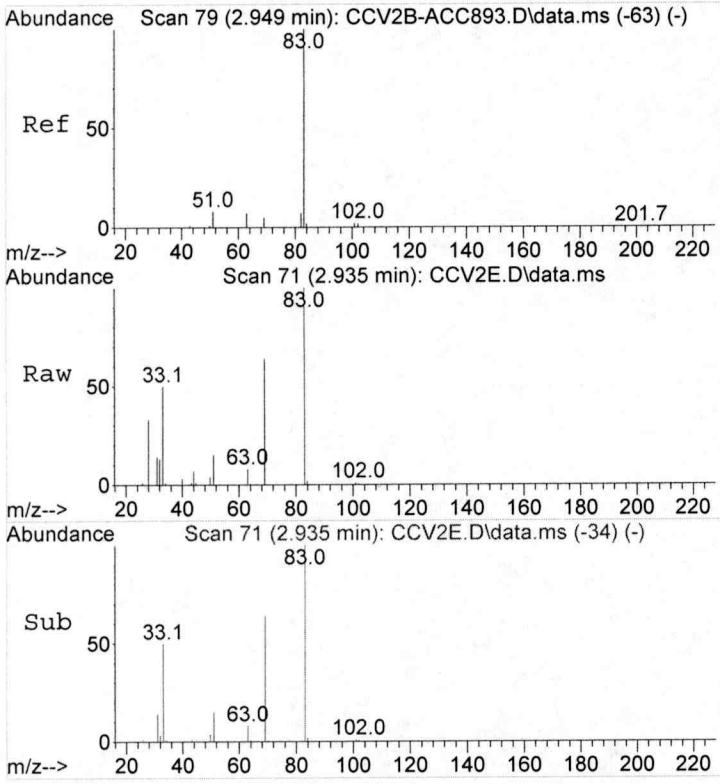


#2
1,1,1-trifluoroethane
Concen: 2.775 ppbV
RT: 2.896 min Scan# 57
Delta R.T. -0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 65 Resp: 14116

Ion	Ratio	Lower	Upper
65	100		
69	196.7	158.4	198.4

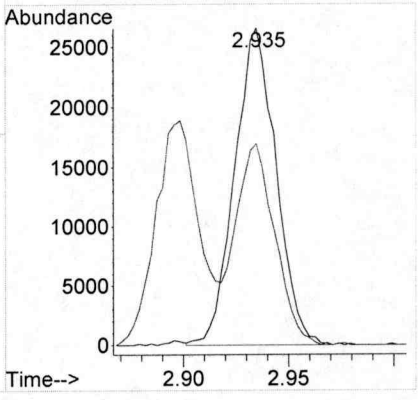


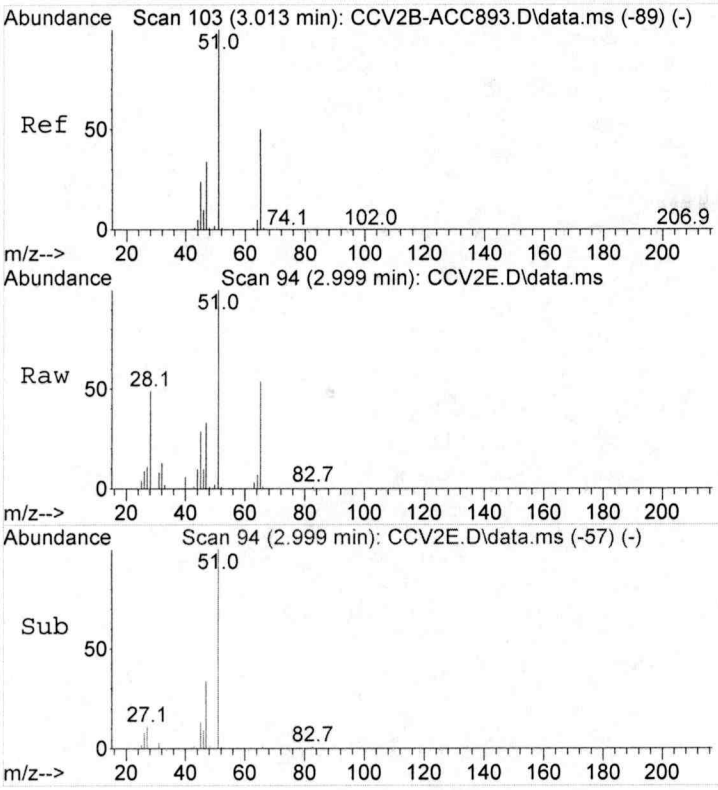


#3
1,1,1,2-Tetrafluoroethane
Concen: 2.627 ppbV
RT: 2.935 min Scan# 71
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 83 Resp: 36451

Ion	Ratio	Lower	Upper
83	100		
69	59.9	42.6	82.6

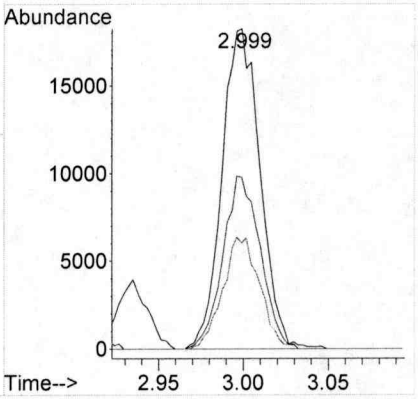


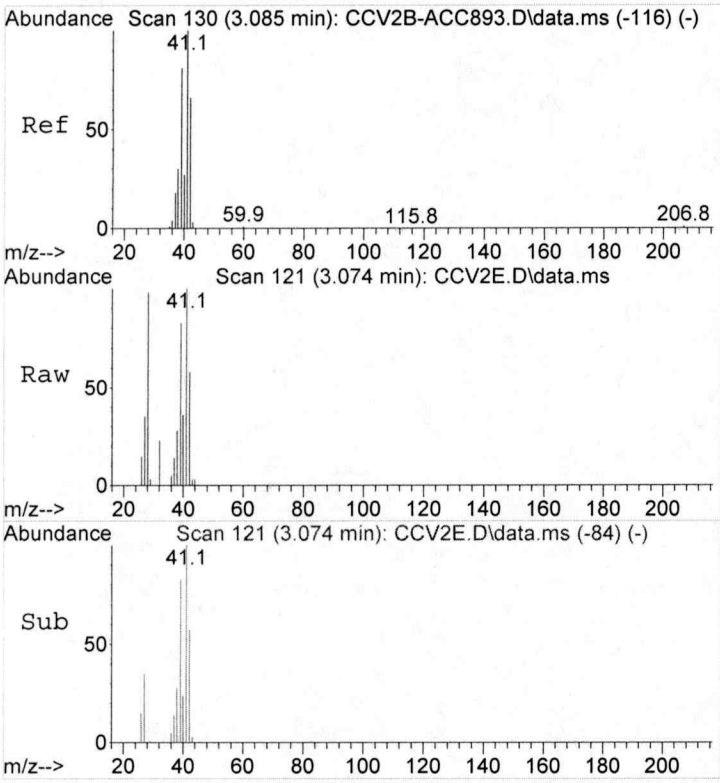


#4
1,1,-Difluoroethane
Concen: 2.395 ppbV
RT: 2.999 min Scan# 94
Delta R.T. 0.004 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 51 Resp: 28283

Ion	Ratio	Lower	Upper
51	100		
65	52.9	25.3	85.3
47	33.8	4.4	64.4

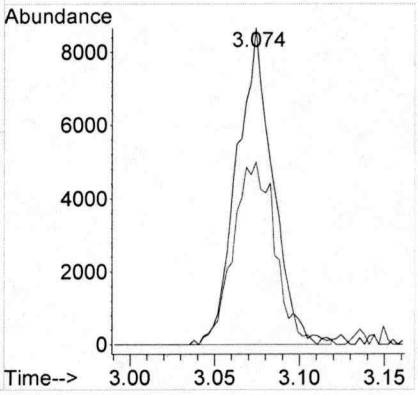


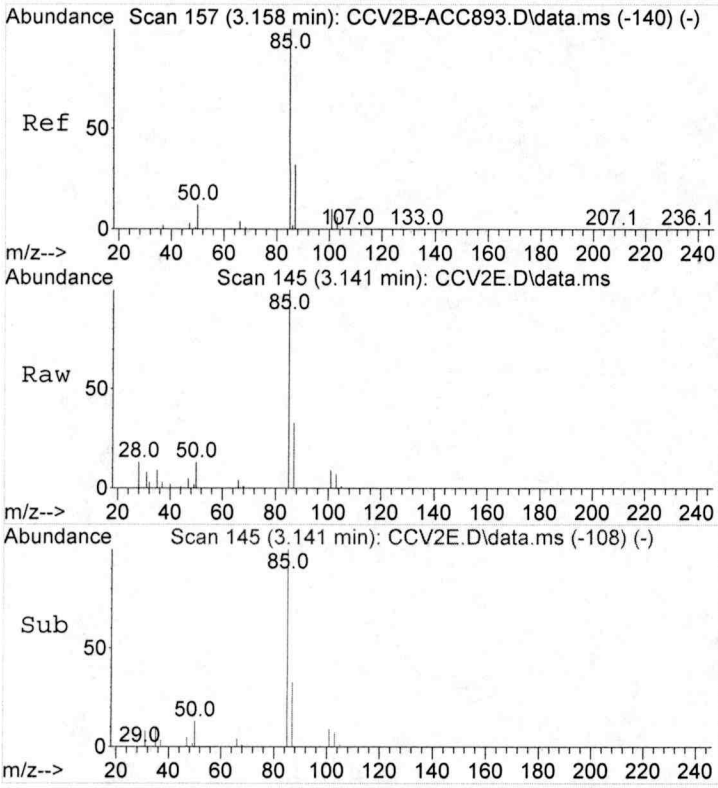


#5
Propene
Concen: 2.174 ppbV
RT: 3.074 min Scan# 121
Delta R.T. 0.004 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 41 Resp: 12815

Ion	Ratio	Lower	Upper
41	100		
42	66.4	35.1	95.1

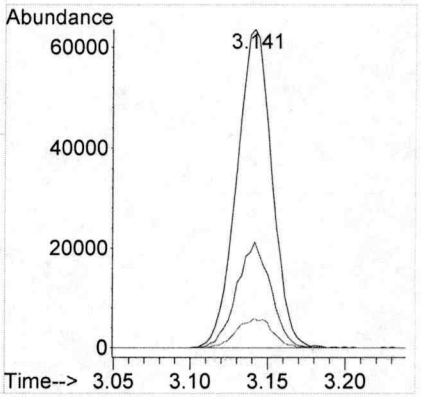


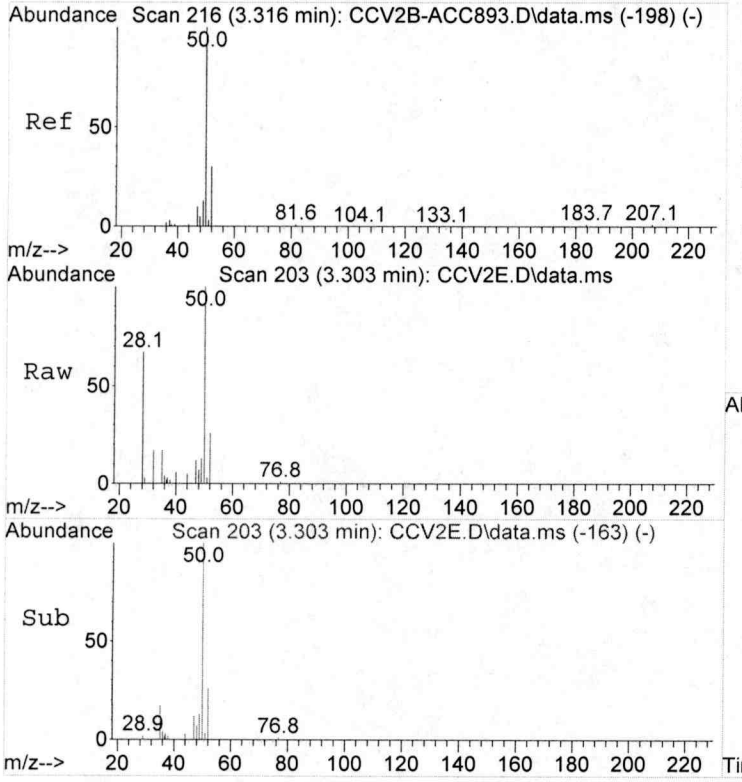


#6
Dichlorodifluoromethane
Concen: 2.498 ppbV
RT: 3.141 min Scan# 145
Delta R.T. 0.005 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 85 Resp: 100117

Ion	Ratio	Lower	Upper
85	100		
87	32.3	2.3	62.3
101	9.6	0.0	39.7

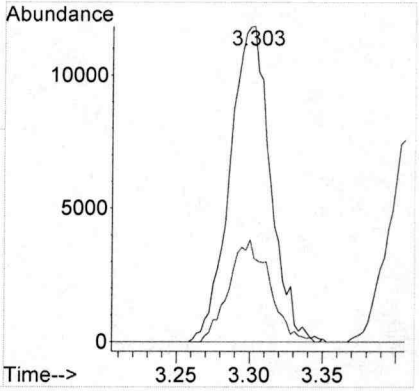


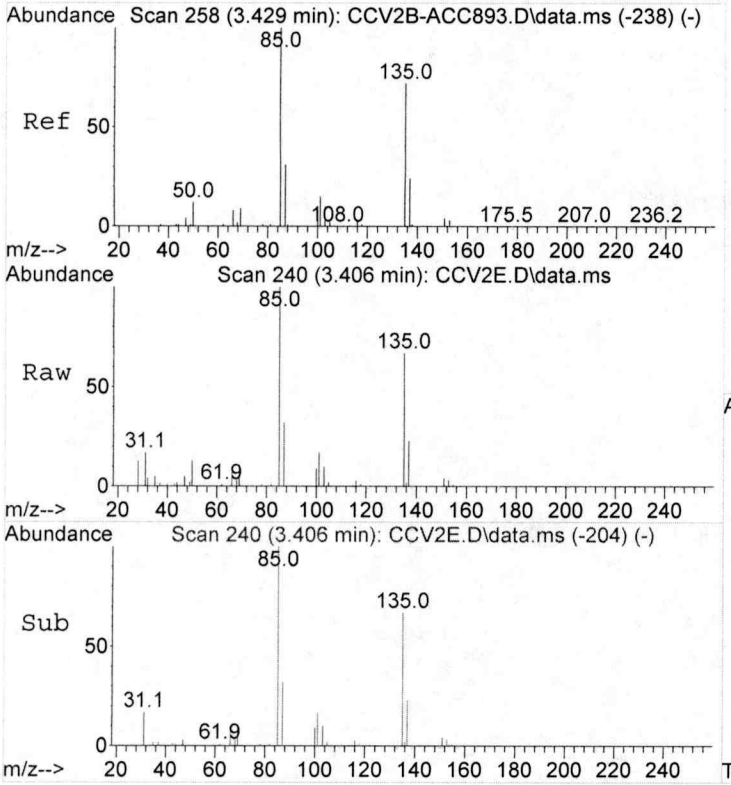


#7
Chloromethane
Concen: 2.273 ppbV
RT: 3.303 min Scan# 203
Delta R.T. 0.011 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 50 Resp: 22877

Ion	Ratio	Lower	Upper
50	100		
52	32.1	4.1	64.1

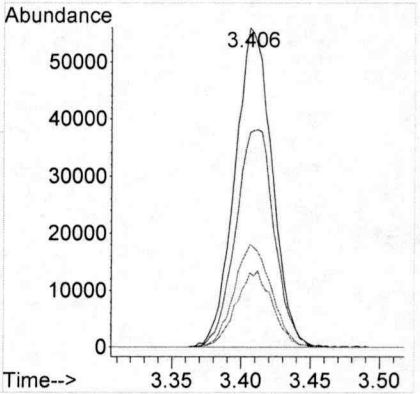


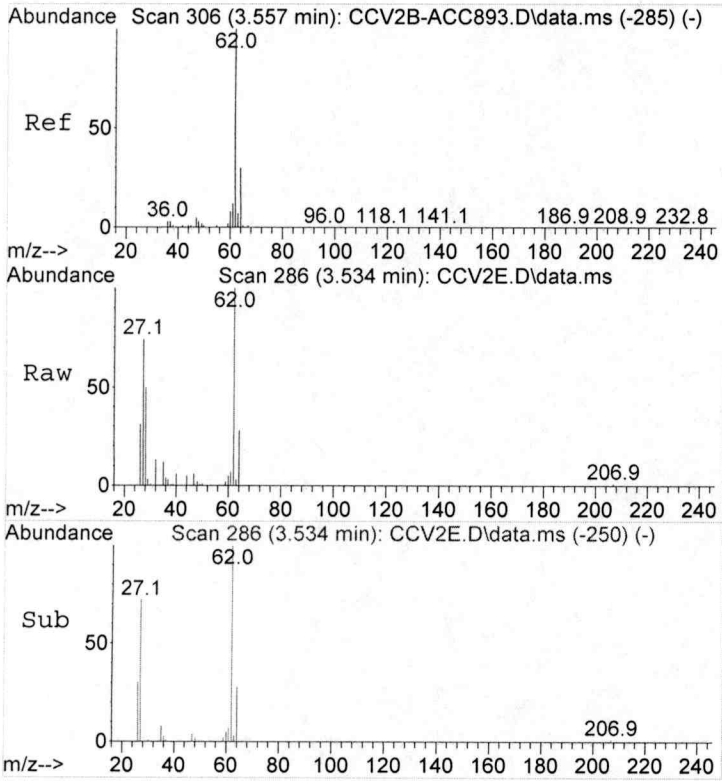


#8
Dichlorotetrafluoroethane
Concen: 2.272 ppbV
RT: 3.406 min Scan# 240
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 85 Resp: 104661

Ion	Ratio	Lower	Upper
85	100		
135	70.7	40.5	100.5
87	32.3	2.7	62.7
137	23.5	0.0	52.8

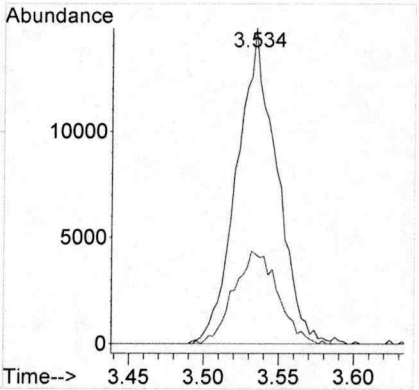


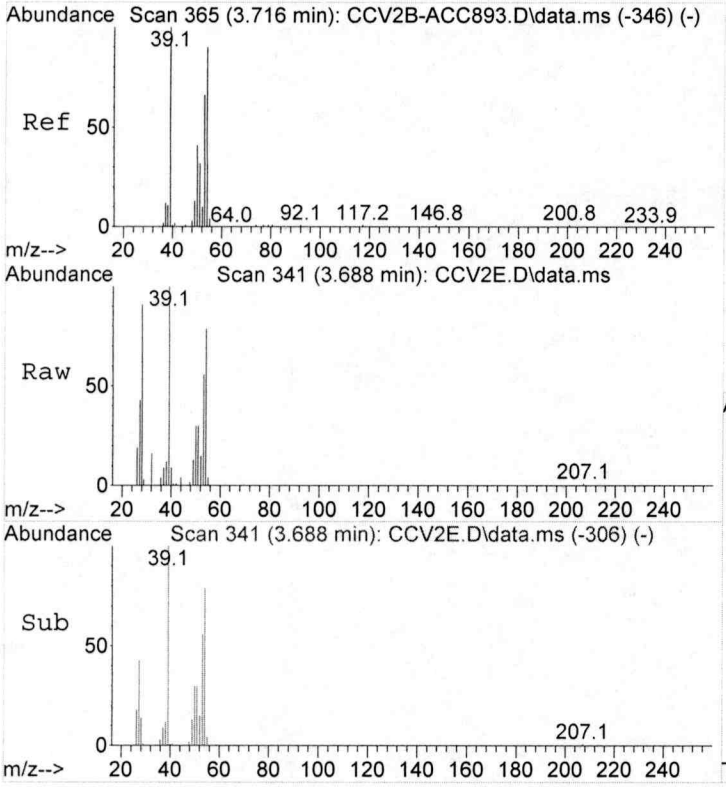


#9
Vinyl Chloride
Concen: 2.271 ppbV
RT: 3.534 min Scan# 286
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 62 Resp: 27417

Ion	Ratio	Lower	Upper
62	100		
64	32.3	1.4	61.4

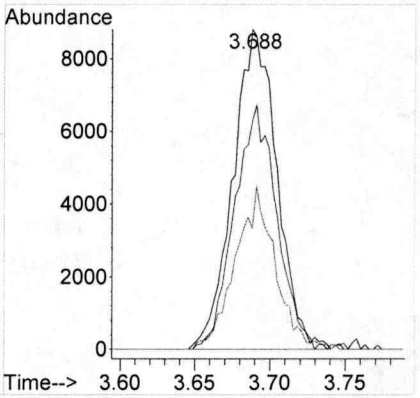


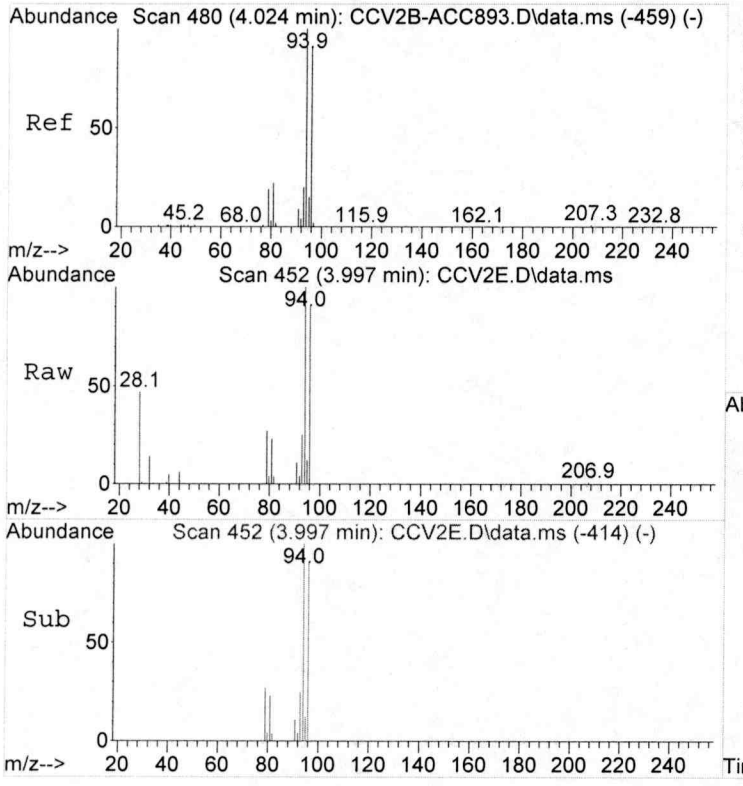


#10
1,3-Butadiene
Concen: 2.175 ppbV
RT: 3.688 min Scan# 341
Delta R.T. -0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 54 Resp: 17904

Ion	Ratio	Lower	Upper
54	100		
53	73.7	41.1	101.1
50	46.0	13.0	73.0

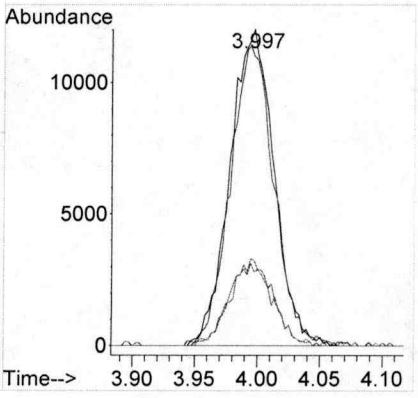


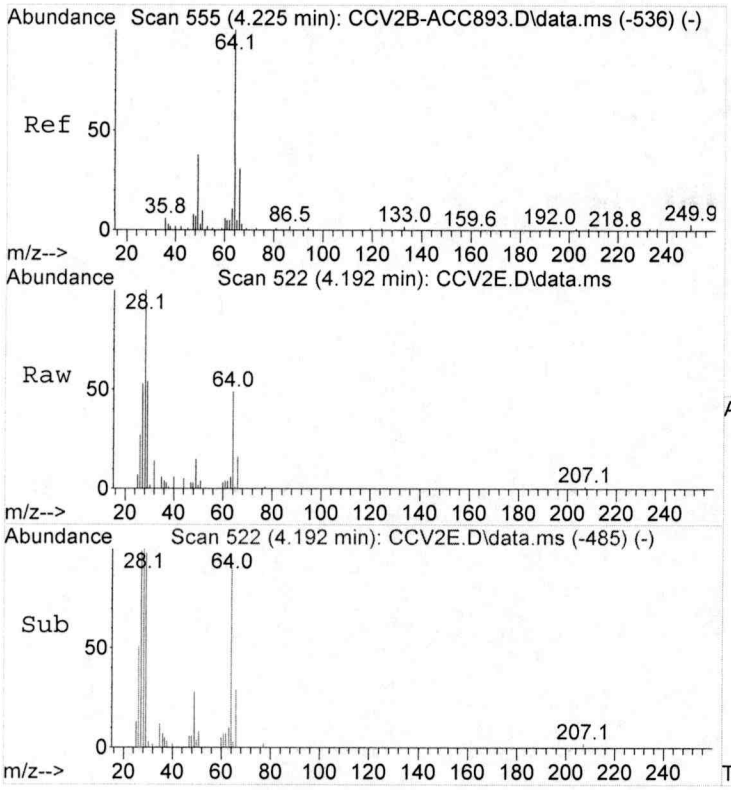


#11
Bromomethane
Concen: 2.143 ppbV
RT: 3.997 min Scan# 452
Delta R.T. 0.005 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 94 Resp: 29452

Ion	Ratio	Lower	Upper
94	100		
96	93.6	63.6	123.6
79	26.5	0.0	54.2
81	26.2	0.0	54.2

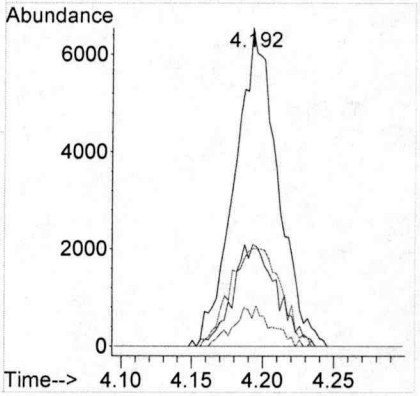


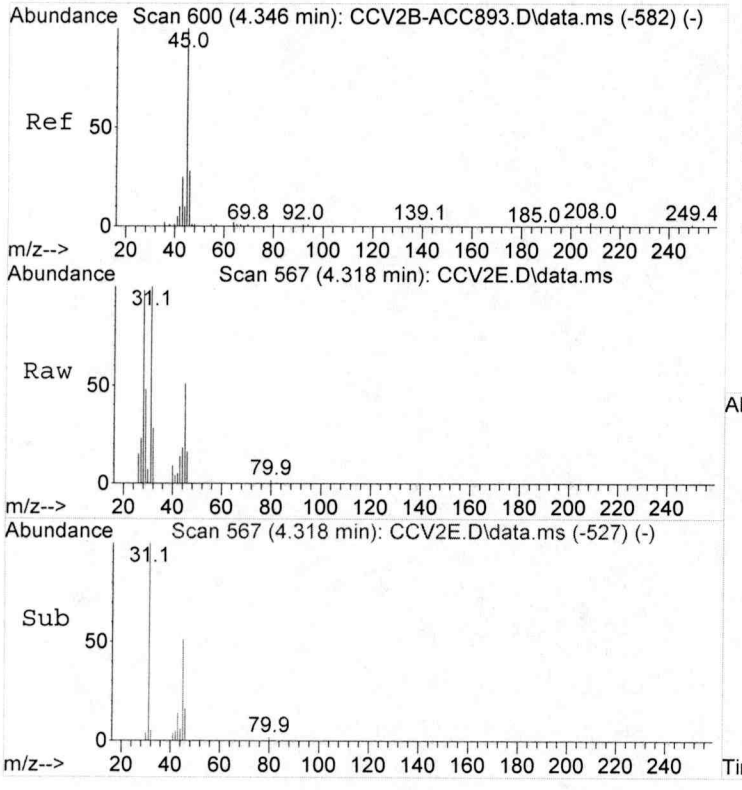


#12
Chloroethane
Concen: 2.162 ppbV
RT: 4.192 min Scan# 522
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 64 Resp: 13764

Ion	Ratio	Lower	Upper
64	100		
66	32.8	0.0	45.7
49	36.0	2.7	62.7
51	5.6	0.0	30.0

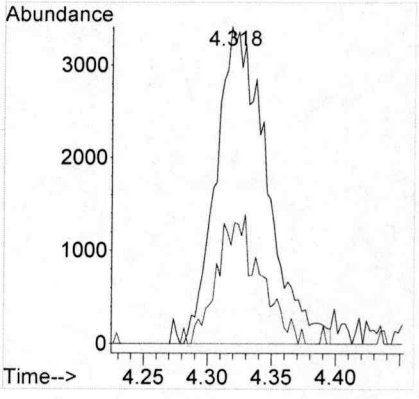


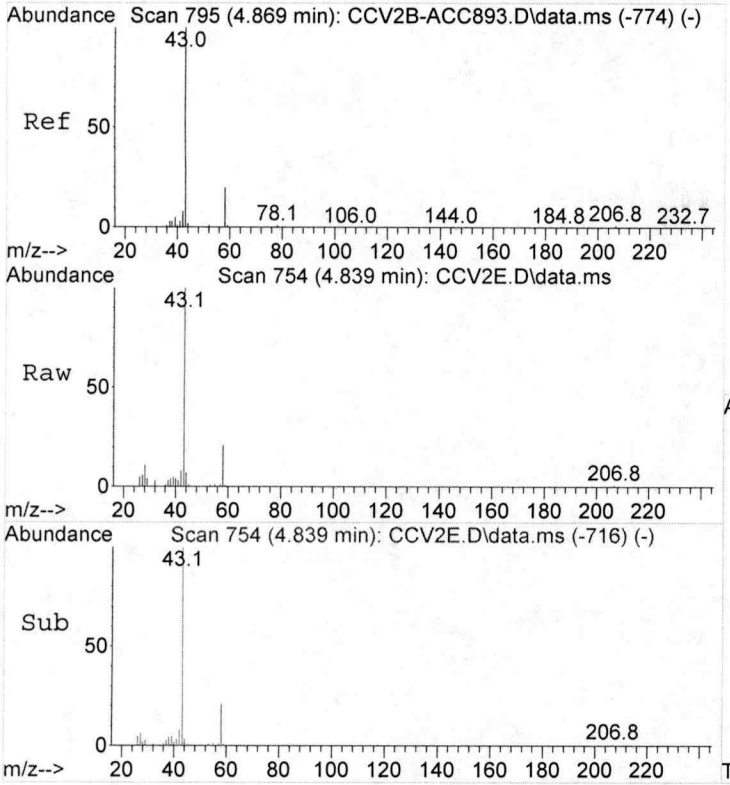


#13
Ethanol
Concen: 1.675 ppbV
RT: 4.318 min Scan# 567
Delta R.T. 0.012 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 45 Resp: 9418

Ion	Ratio	Lower	Upper
45	100		
46	12.5	0.0	30.0

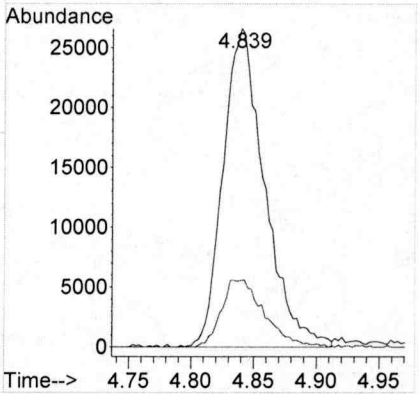


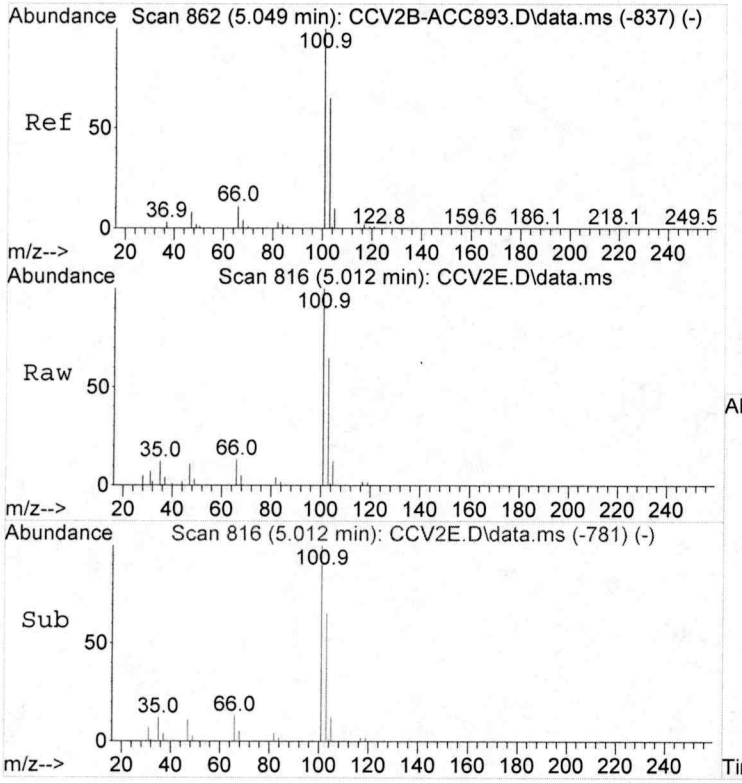


#14
Acetone
Concen: 2.036 ppbV
RT: 4.839 min Scan# 754
Delta R.T. 0.005 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 43 Resp: 61039

Ion	Ratio	Lower	Upper
43	100		
58	21.8	0.0	47.3

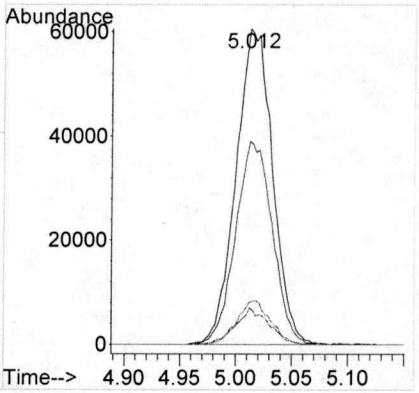


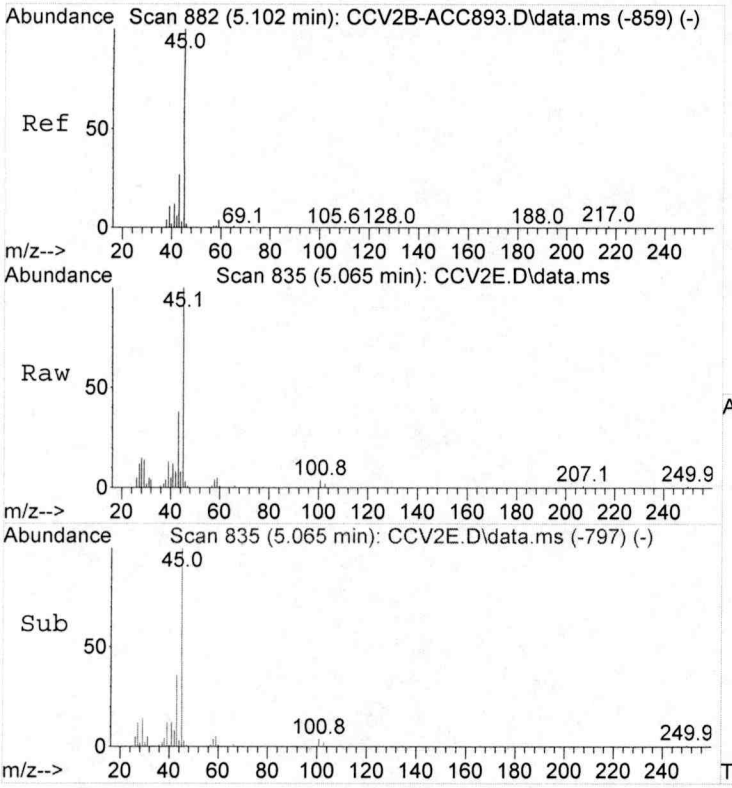


#15
Trichlorofluoromethane
Concen: 2.203 ppbV
RT: 5.012 min Scan# 816
Delta R.T. -0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:101 Resp: 137832

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.7	77.5
66	13.0	10.6	15.8
105	10.4	8.6	13.0

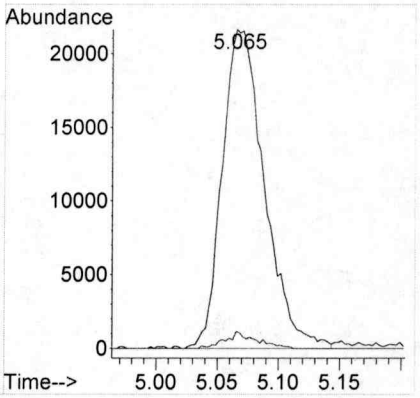


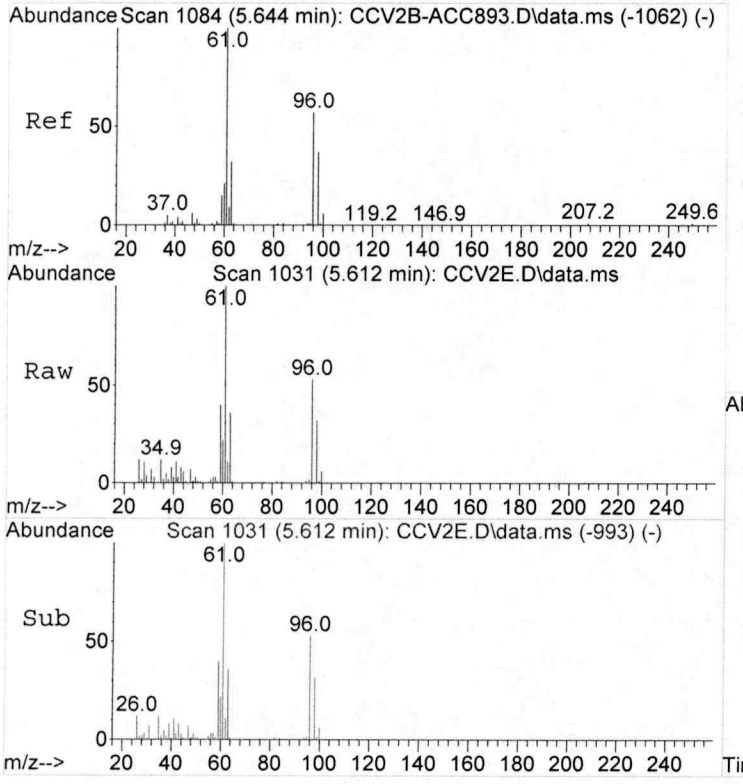


#16
Isopropanol
Concen: 1.825 ppbV
RT: 5.065 min Scan# 835
Delta R.T. 0.005 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 45 Resp: 51751

Ion	Ratio	Lower	Upper
45	100		
59	3.9	0.0	30.0

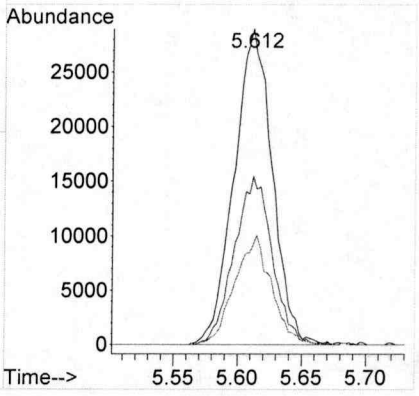


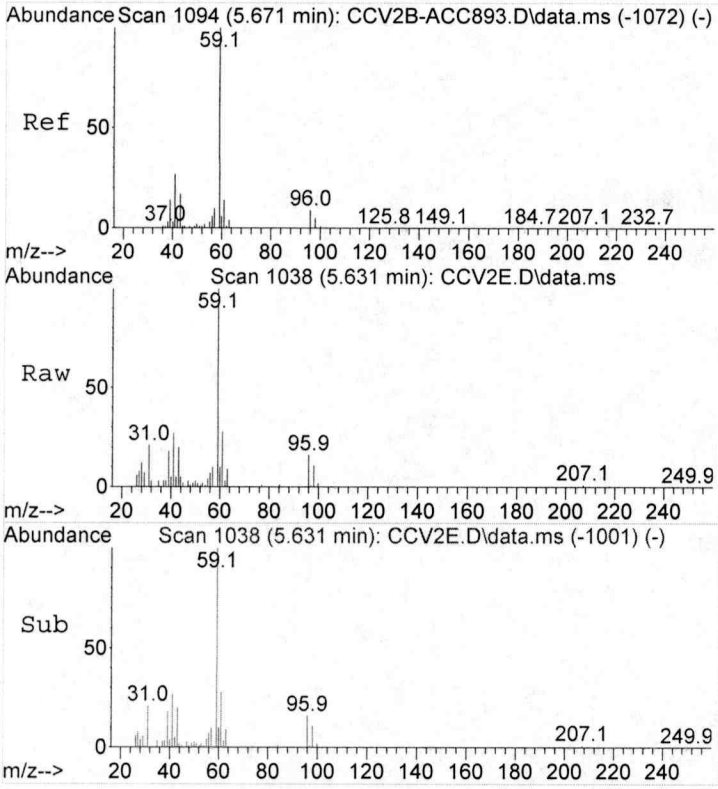


#17
1,1-Dichloroethene
Concen: 2.151 ppbV
RT: 5.612 min Scan# 1031
Delta R.T. 0.005 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 61 Resp: 59828

Ion	Ratio	Lower	Upper
61	100		
96	53.1	40.2	60.2
98	33.4	26.6	39.8

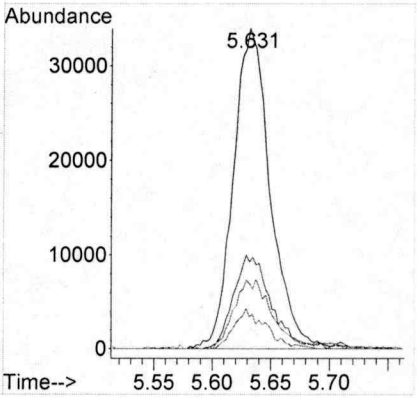


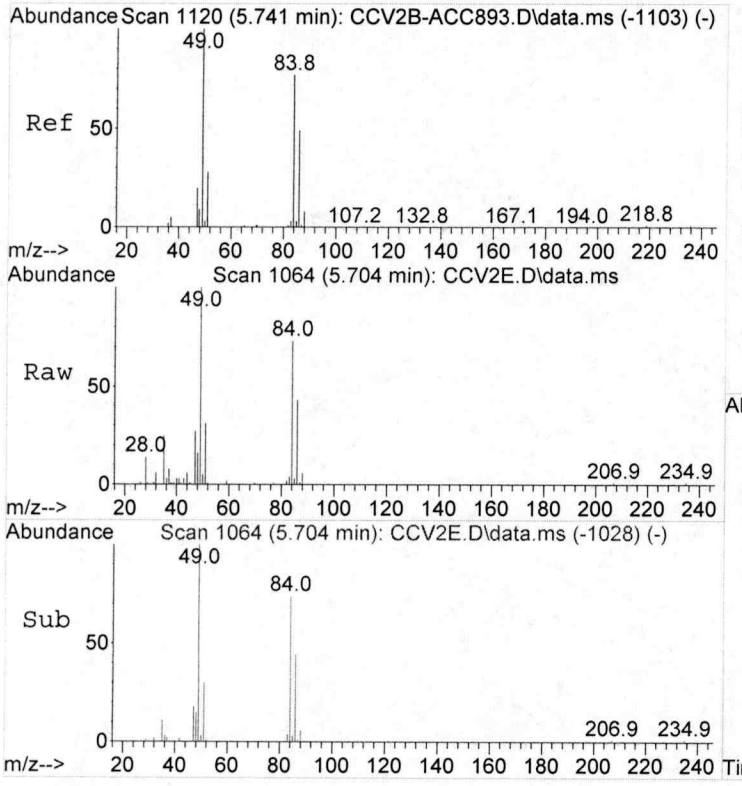


#18
tert-Butanol
Concen: 1.848 ppbV
RT: 5.631 min Scan# 1038
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 59 Resp: 74503

Ion	Ratio	Lower	Upper
59	100		
41	29.6	0.0	57.7
43	22.2	0.0	35.5
57	11.0	0.0	37.6

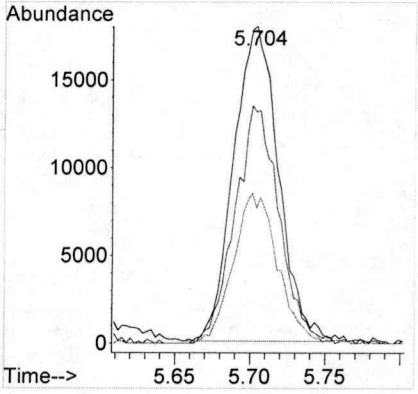


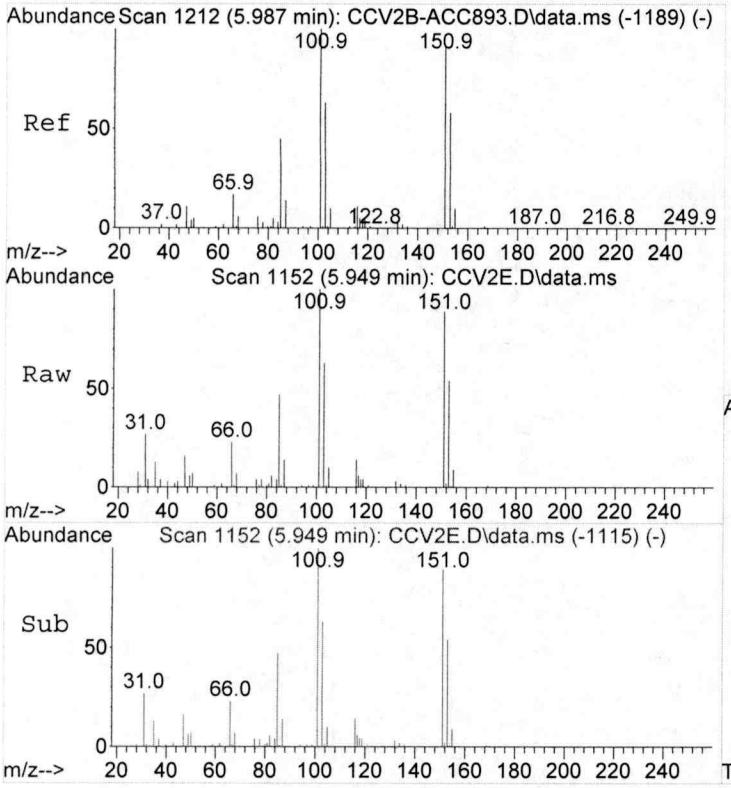


#19
Methylene chloride
Concen: 2.019 ppbV
RT: 5.704 min Scan# 1064
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 49 Resp: 37335

Ion	Ratio	Lower	Upper
49	100		
84	74.2	42.1	102.1
86	47.5	17.3	77.3

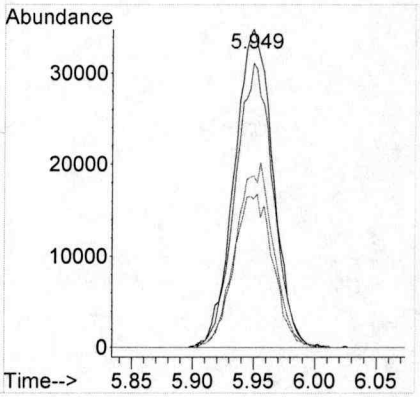


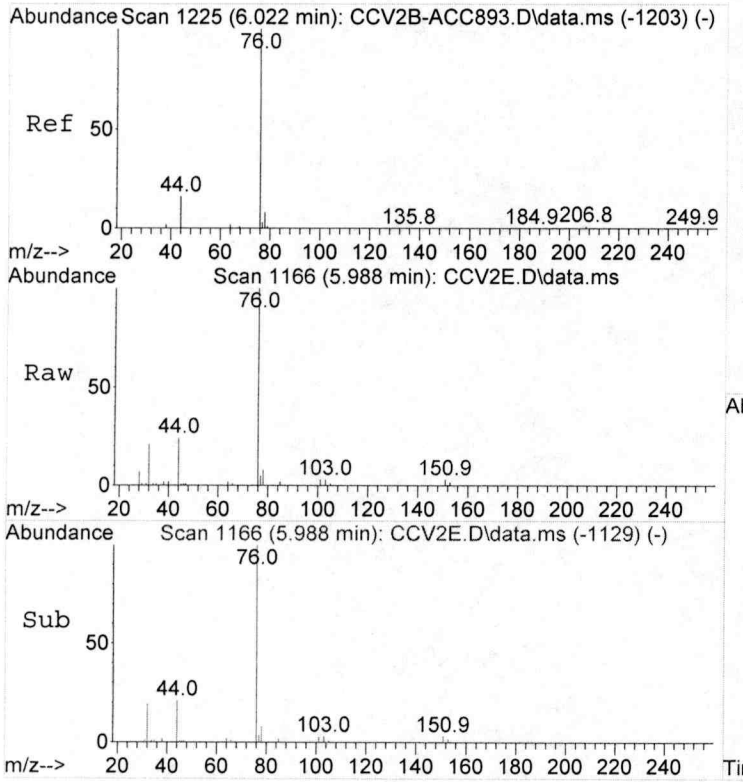


#20
1,1,2-Trichlorotrifluoroethane
Concen: 1.886 ppbV
RT: 5.949 min Scan# 1152
Delta R.T. 0.004 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:101 Resp: 76397

Ion	Ratio	Lower	Upper
101	100		
151	87.4	56.9	116.9
153	56.3	24.7	84.7
85	49.1	18.0	78.0

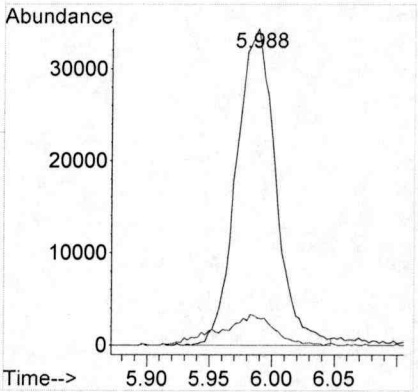


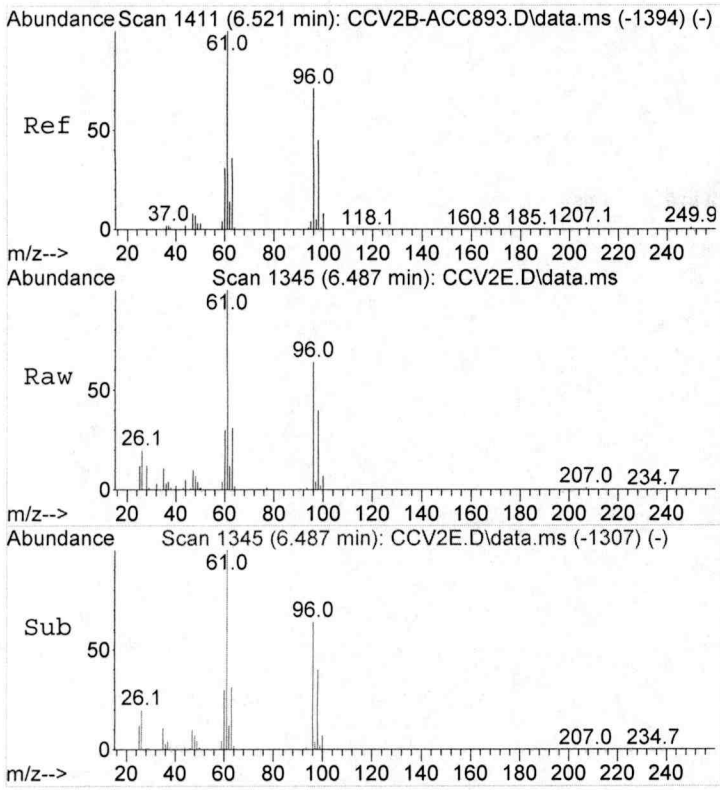


#21
Carbon Disulfide
Concen: 1.816 ppbV
RT: 5.988 min Scan# 1166
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 76 Resp: 74950

Ion	Ratio	Lower	Upper
76	100		
78	10.1	0.0	39.5

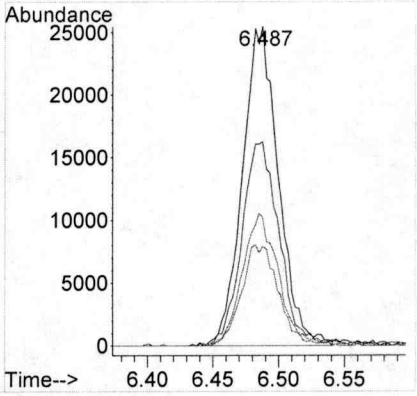


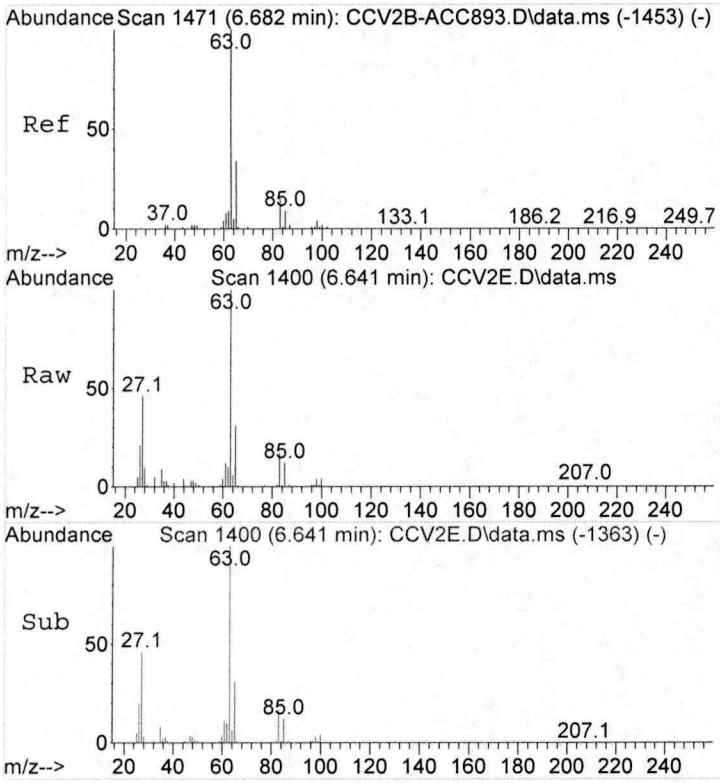


#22
trans-1,2-Dichloroethene
Concen: 1.962 ppbV
RT: 6.487 min Scan# 1345
Delta R.T. 0.006 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 61 Resp: 48311

Ion	Ratio	Lower	Upper
61	100		
96	66.4	34.6	94.6
63	32.6	1.9	61.9
98	41.2	10.6	70.6

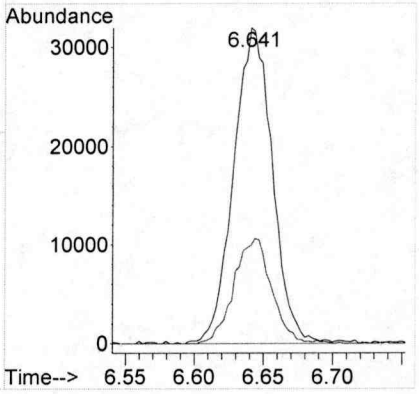


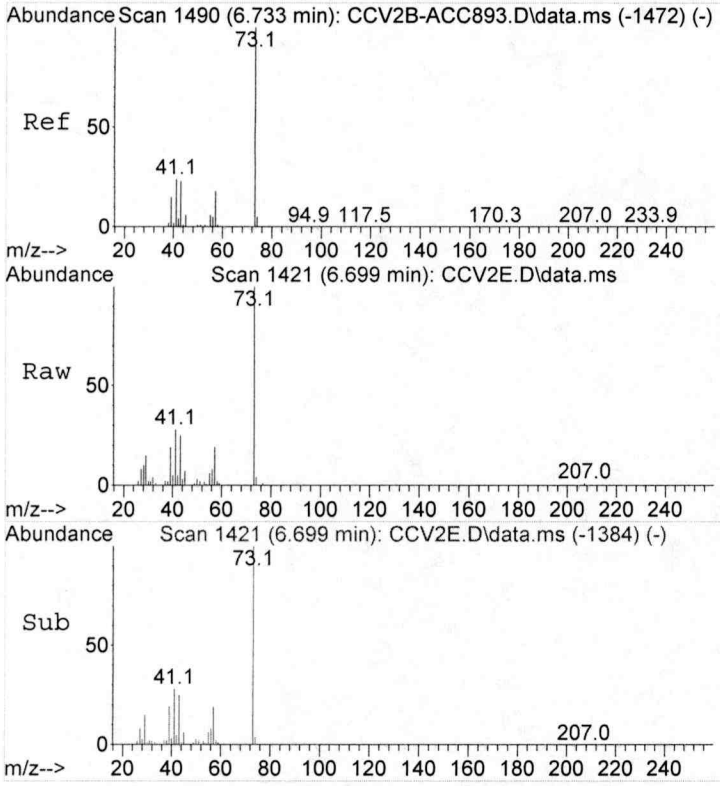


#23
1,1-Dichloroethane
Concen: 1.999 ppbV
RT: 6.641 min Scan# 1400
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 63 Resp: 62074

Ion	Ratio	Lower	Upper
63	100		
65	32.0	1.4	61.4

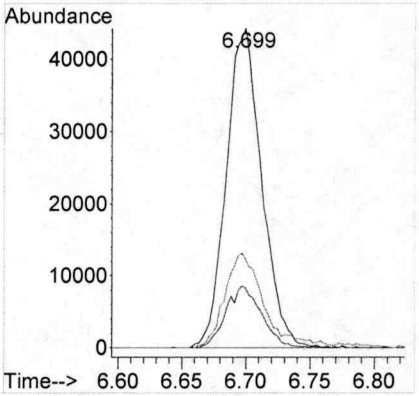


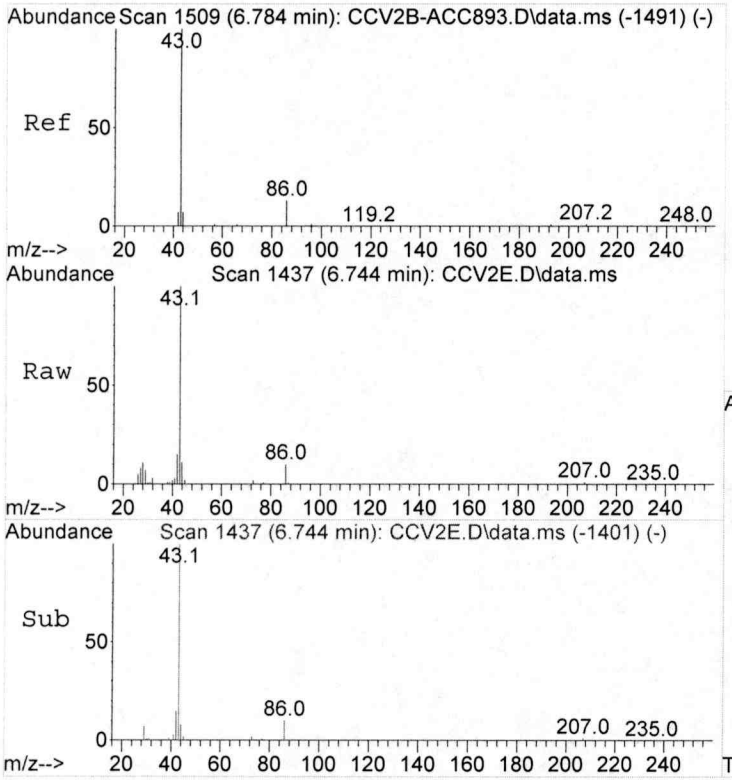


#24
Methyl-tert-Butyl Ether
Concen: 1.848 ppbV
RT: 6.699 min Scan# 1421
Delta R.T. 0.004 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 73 Resp: 84419

Ion	Ratio	Lower	Upper
73	100		
57	19.5	15.1	22.7
41	32.8	20.3	30.5#

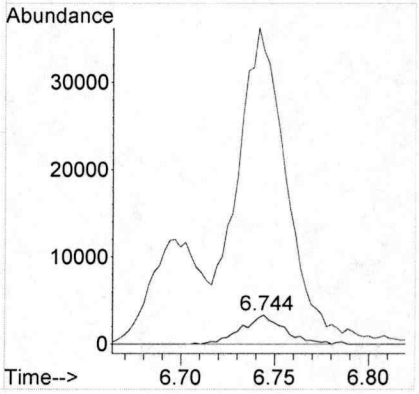


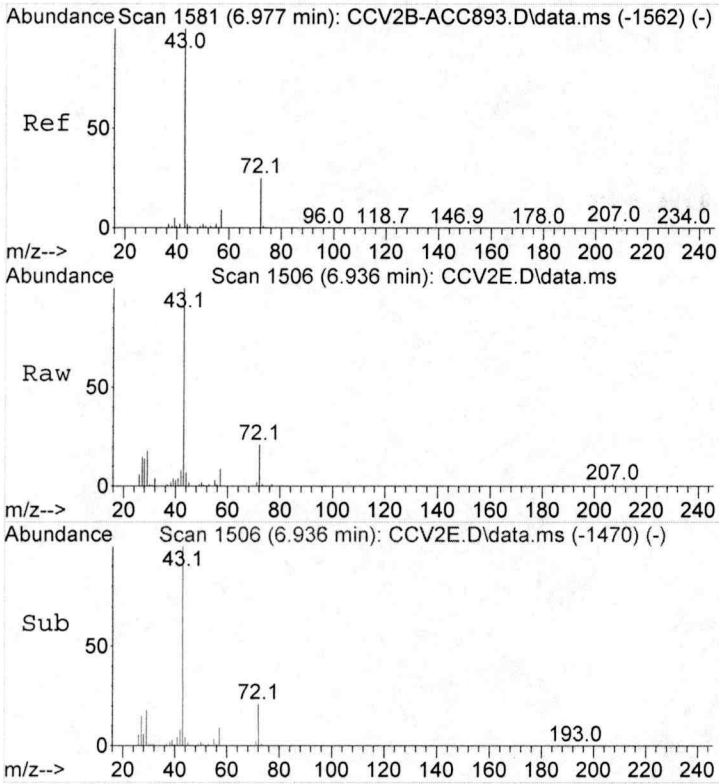


#25
Vinyl Acetate
Concen: 1.945 ppbV
RT: 6.744 min Scan# 1437
Delta R.T. 0.000 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 86 Resp: 5287

Ion	Ratio	Lower	Upper
86	100		
43	1238.1	1163.6	1223.6#

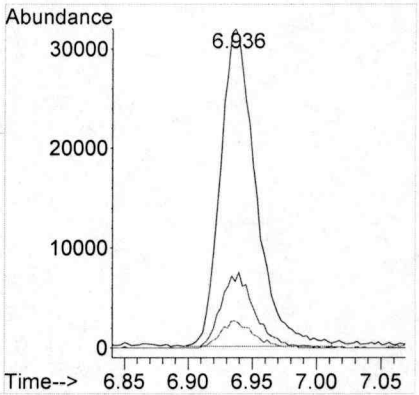


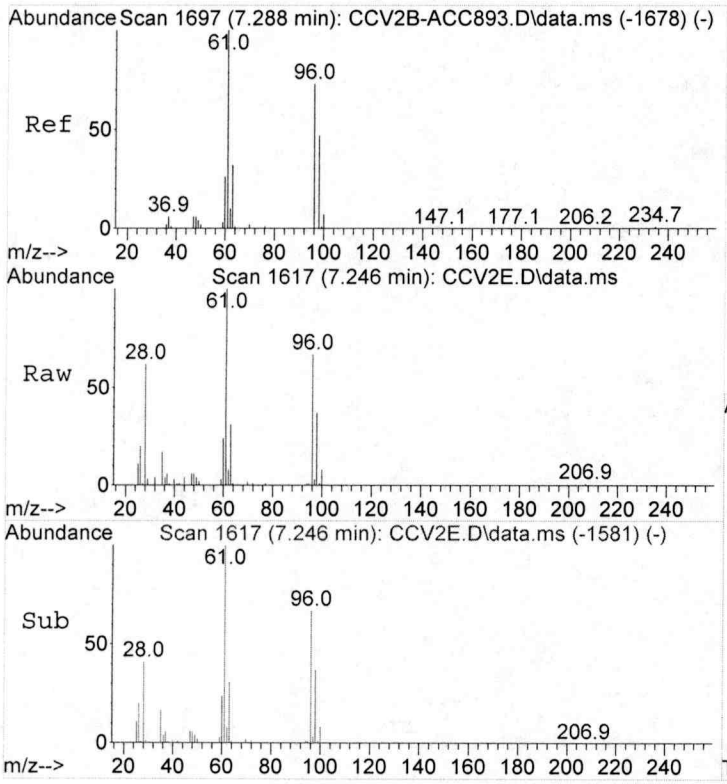


#26
2-Butanone
Concen: 1.896 ppbV
RT: 6.936 min Scan# 1506
Delta R.T. -0.000 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 43 Resp: 61273

Ion	Ratio	Lower	Upper
43	100		
72	22.5	0.0	51.3
57	7.9	0.0	32.0

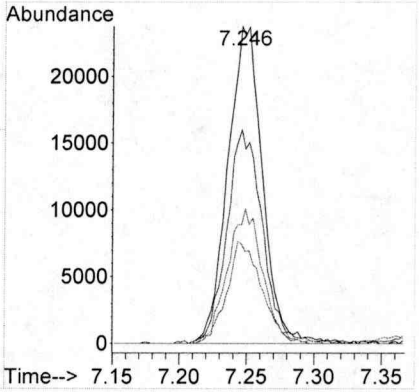


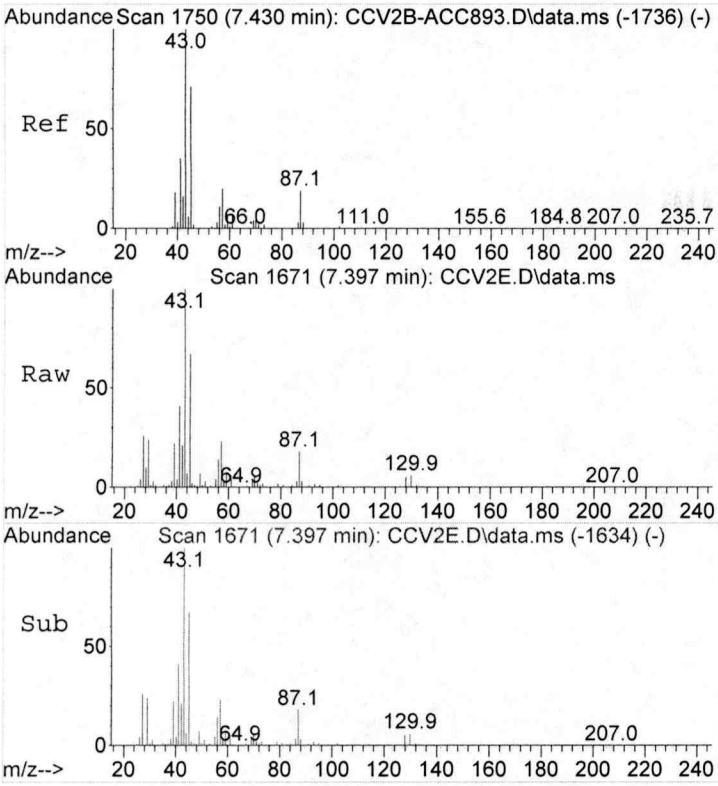


#27
cis-1,2-Dichloroethene
Concen: 1.926 ppbV
RT: 7.246 min Scan# 1617
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 61 Resp: 42540

Ion	Ratio	Lower	Upper
61	100		
96	68.7	38.9	98.9
98	42.8	14.0	74.0
63	32.3	2.3	62.3

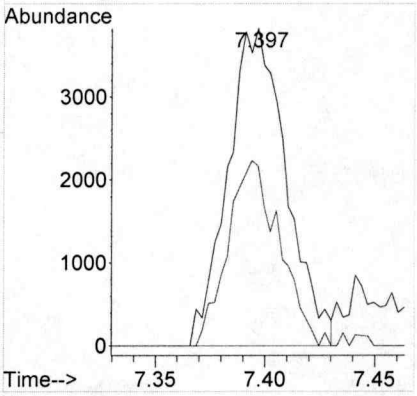


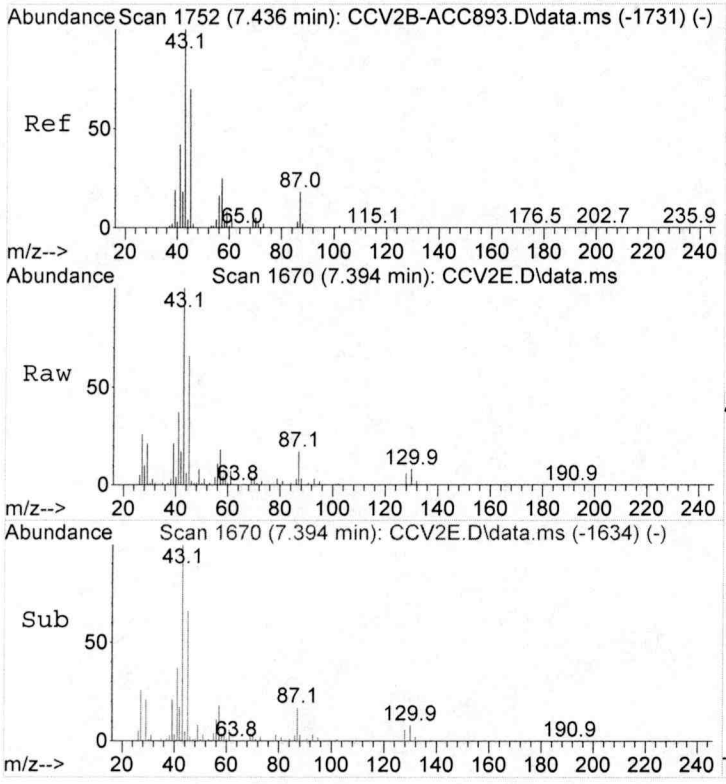


#28
Ethyl Acetate
Concen: 2.070 ppbV
RT: 7.397 min Scan# 1671
Delta R.T. 0.004 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 70 Resp: 7084

Ion	Ratio	Lower	Upper
70	100		
88	51.7	14.5	74.5

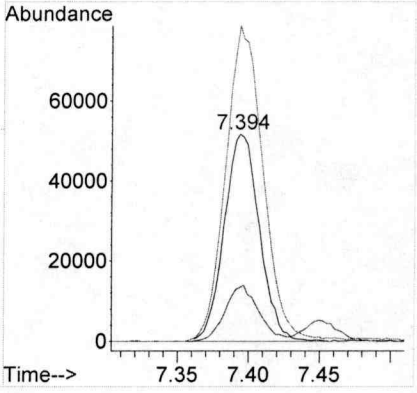


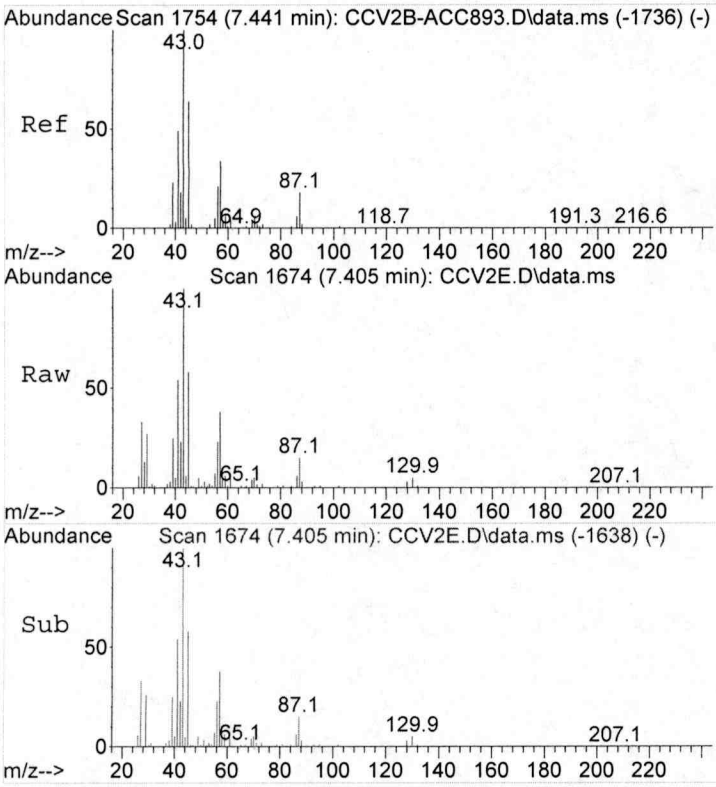


#29
Diisopropyl Ether
Concen: 2.278 ppbV
RT: 7.394 min Scan# 1670
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 45 Resp: 89242

Ion	Ratio	Lower	Upper
45	100		
87	25.6	0.0	56.3
43	162.1	110.9	170.9

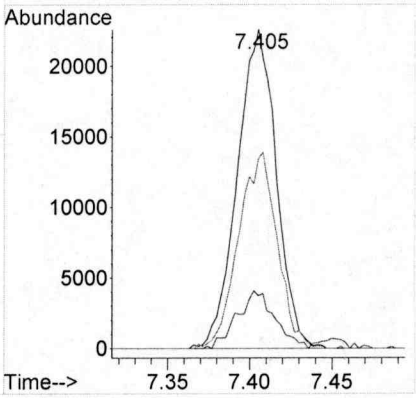


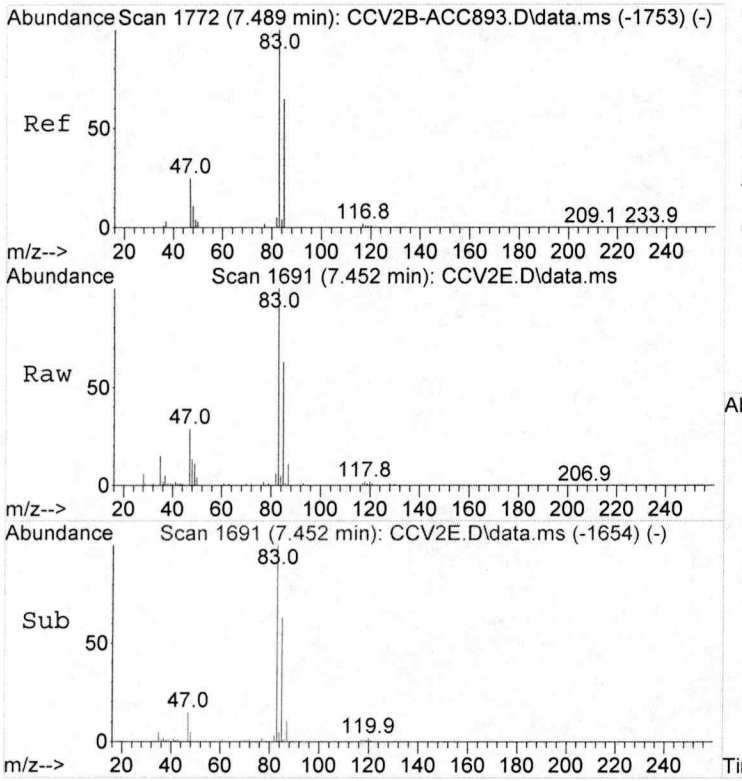


#30
Hexane
Concen: 2.266 ppbV
RT: 7.405 min Scan# 1674
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 57 Resp: 37188

Ion	Ratio	Lower	Upper
57	100		
86	17.5	0.0	47.3
56	61.0	26.1	86.1

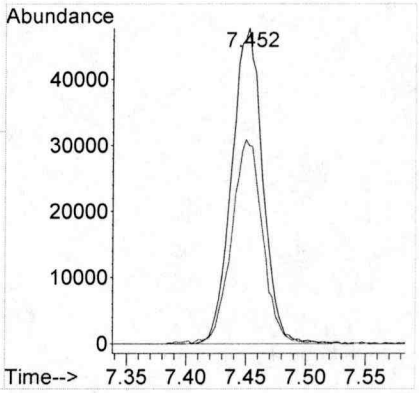


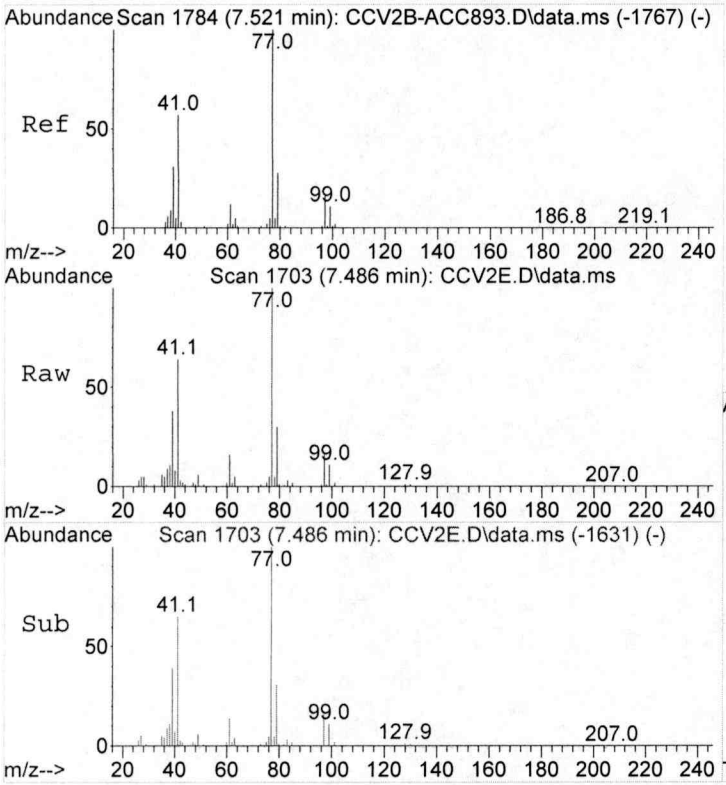


#31
Chloroform
Concen: 2.273 ppbV
RT: 7.452 min Scan# 1691
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 83 Resp: 86049

Ion	Ratio	Lower	Upper
83	100		
85	64.6	33.9	93.9

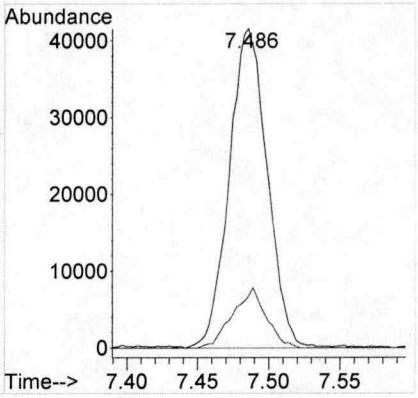


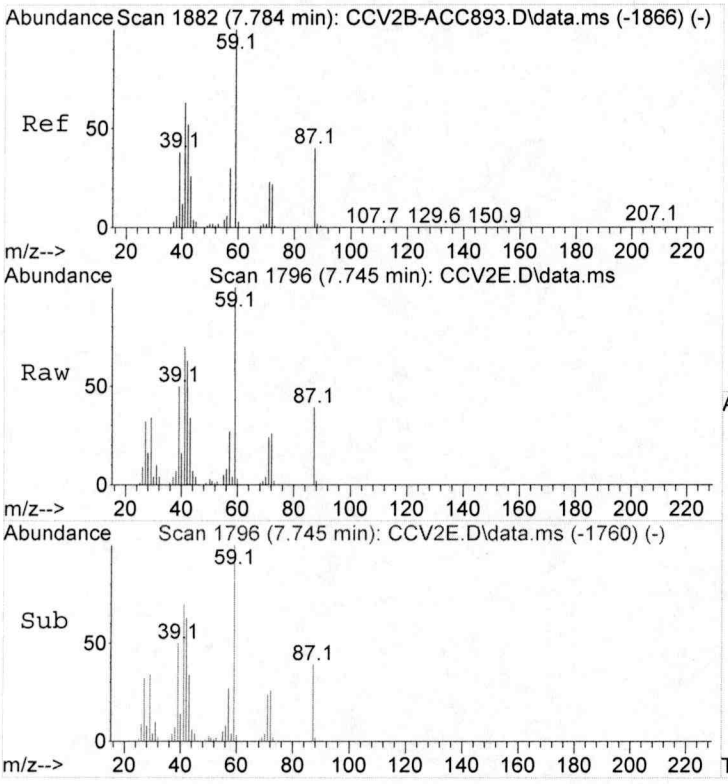


#32
2,2 Dichloropropane
Concen: 2.198 ppbV
RT: 7.486 min Scan# 1703
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 77 Resp: 77171

Ion	Ratio	Lower	Upper
77	100		
97	16.5	0.0	37.0

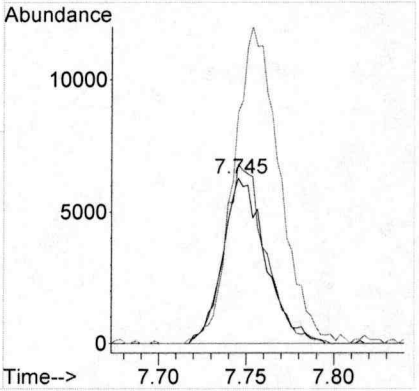


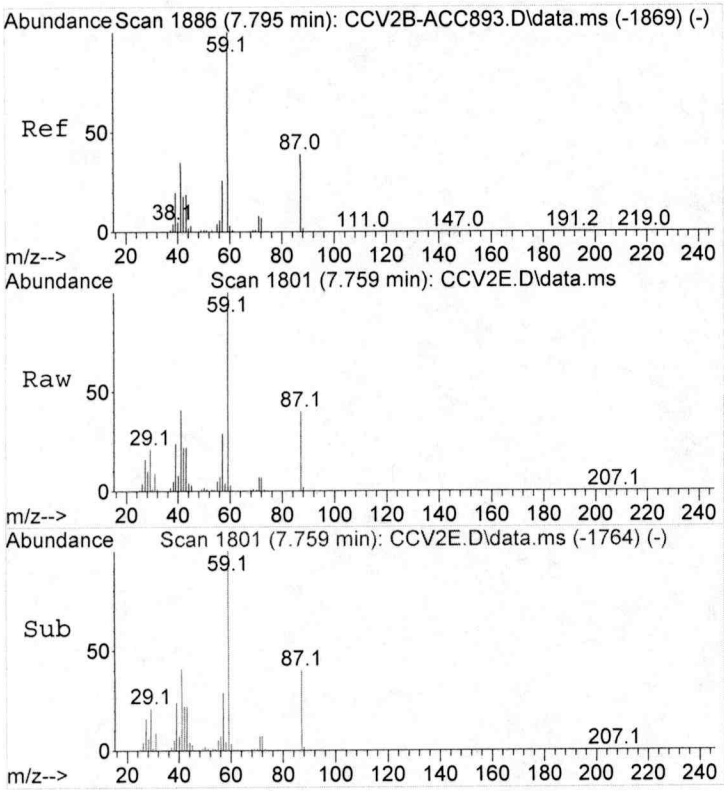


#33
Tetrahydrofuran
Concen: 2.213 ppbV
RT: 7.745 min Scan# 1796
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 71 Resp: 10667

Ion	Ratio	Lower	Upper
71	100		
72	105.6	82.2	123.2
43	206.0	142.2	213.4

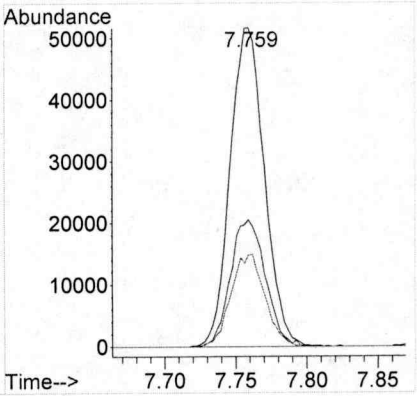


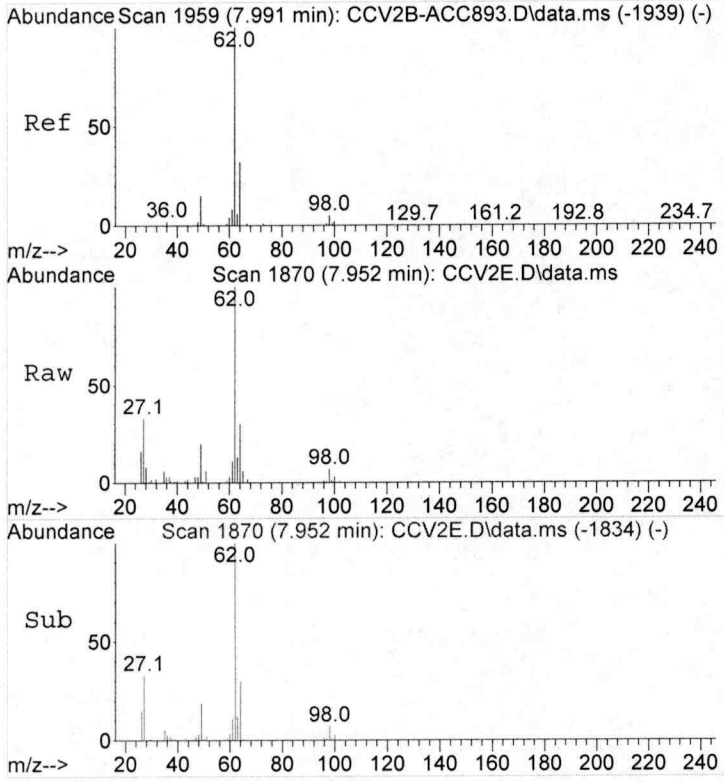


#34
Ethyl-tert-Butyl Ether
Concen: 2.449 ppbV
RT: 7.759 min Scan# 1801
Delta R.T. 0.004 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 59 Resp: 86228

Ion	Ratio	Lower	Upper
59	100		
87	40.6	10.7	70.7
57	28.7	0.0	58.3

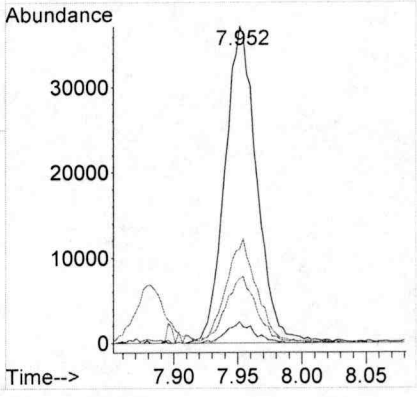


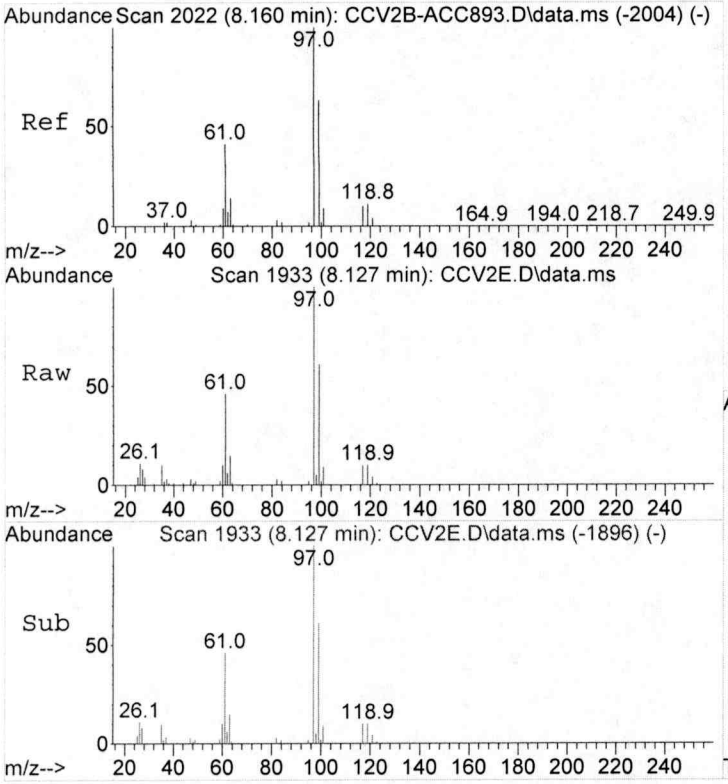


#36
1,2-Dichloroethane
Concen: 2.233 ppbV
RT: 7.952 min Scan# 1870
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 62 Resp: 64343

Ion	Ratio	Lower	Upper
62	100		
98	5.8	0.0	36.1
64	31.8	2.7	62.7
49	18.7	0.0	50.4

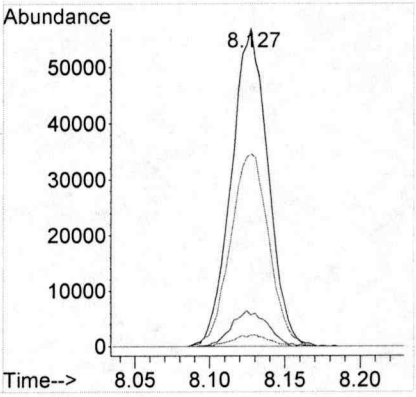


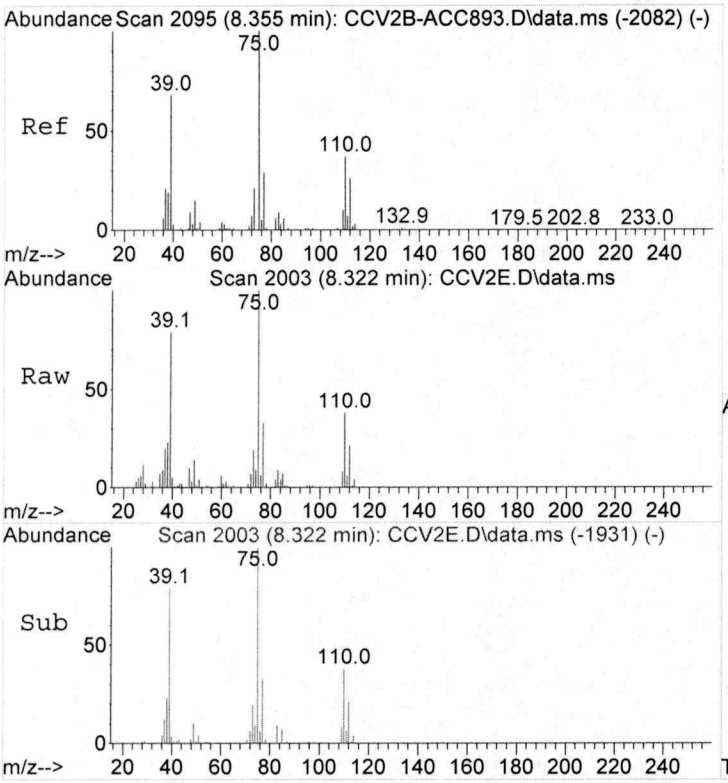


#37
1,1,1-Trichloroethane
Concen: 2.252 ppbV
RT: 8.127 min Scan# 1933
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 97 Resp: 96741

Ion	Ratio	Lower	Upper
97	100		
117	11.2	0.0	41.4
121	3.5	0.0	33.4
99	63.4	34.2	94.2

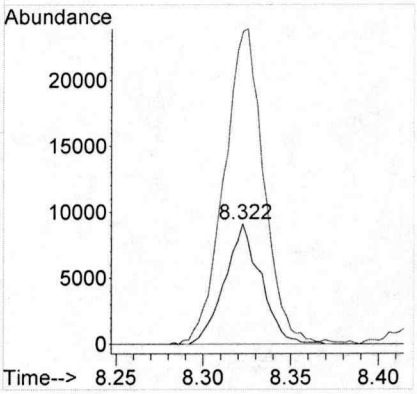


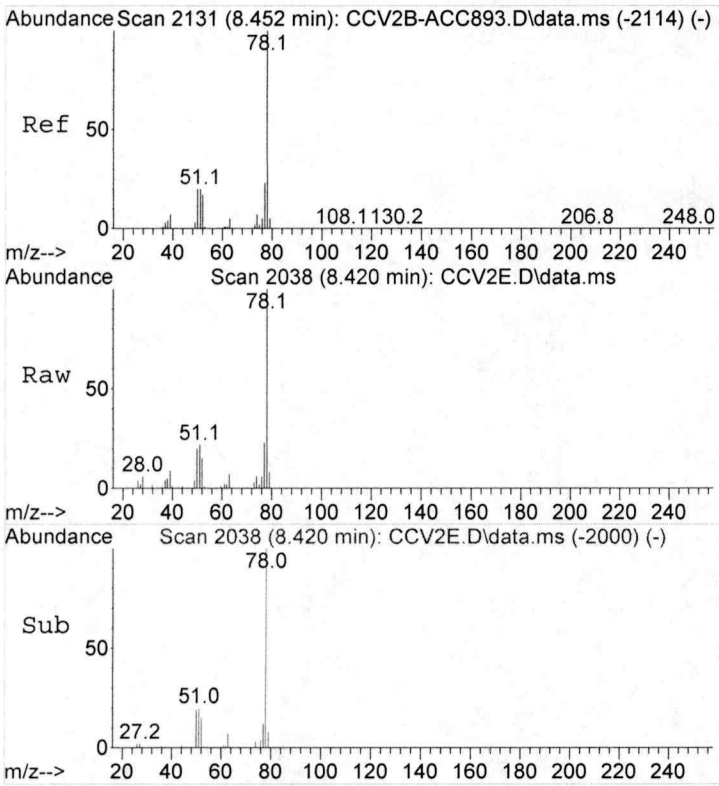


#38
1,1-Dichloropropene
Concen: 2.123 ppbV
RT: 8.322 min Scan# 2003
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:110 Resp: 13072

Ion	Ratio	Lower	Upper
110	100		
75	288.3	272.7	312.7

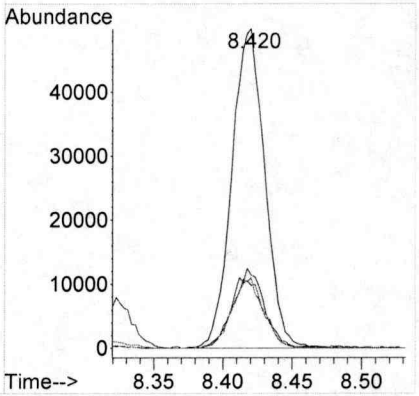


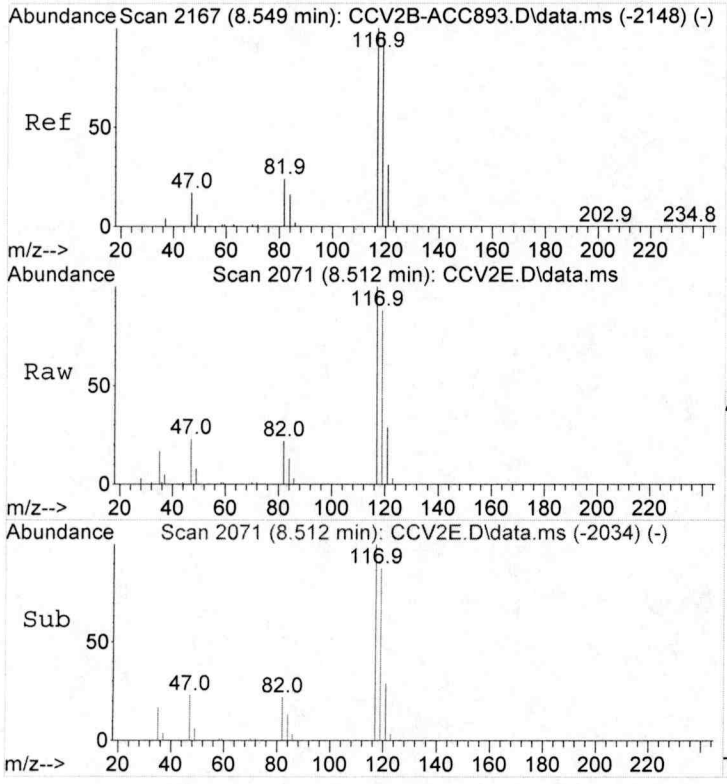


#39
Benzene
Concen: 2.250 ppbV
RT: 8.420 min Scan# 2038
Delta R.T. 0.005 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 78 Resp: 82360

Ion	Ratio	Lower	Upper
78	100		
77	24.3	0.0	54.2
50	21.3	0.0	50.5
51	21.2	0.0	51.1

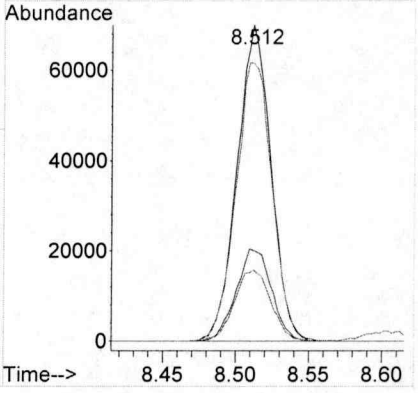


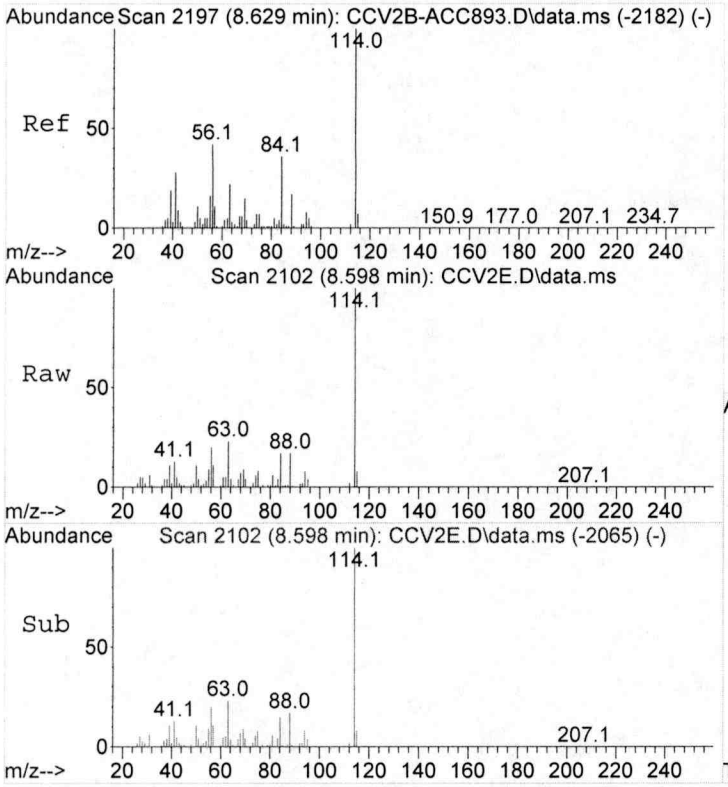


#40
Carbon Tetrachloride
Concen: 2.291 ppbV
RT: 8.512 min Scan# 2071
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:117 Resp: 112678

Ion	Ratio	Lower	Upper
117	100		
121	30.4	0.5	60.5
82	24.2	0.0	54.6
119	94.0	65.1	125.1

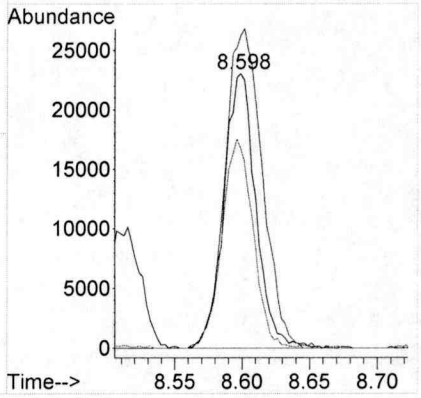


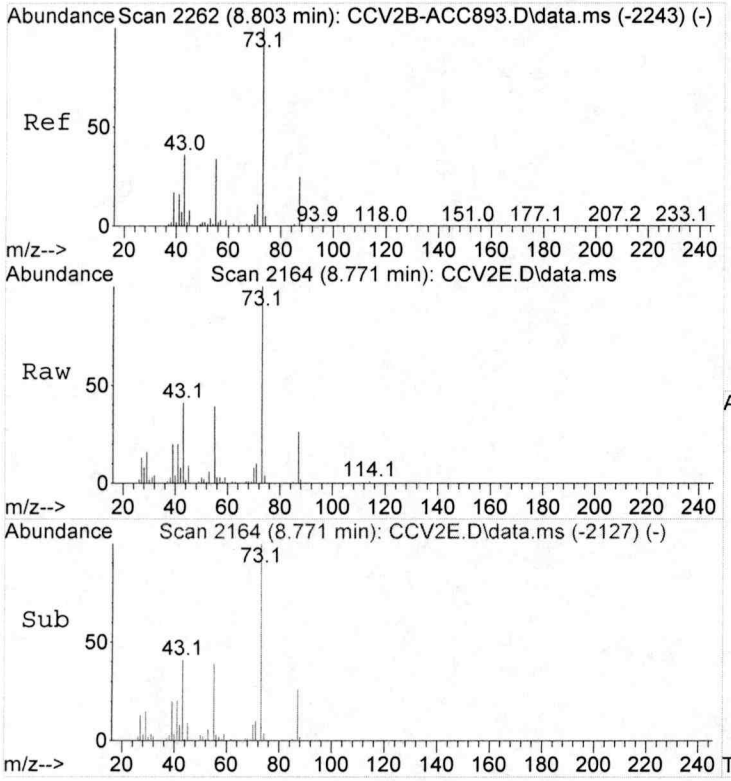


#42
Cyclohexane
Concen: 2.159 ppbV
RT: 8.598 min Scan# 2102
Delta R.T. 0.004 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 84 Resp: 37803

Ion	Ratio	Lower	Upper
84	100		
56	136.0	107.0	167.0
41	74.2	43.0	103.0

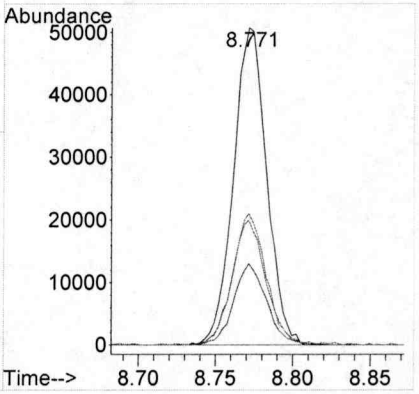


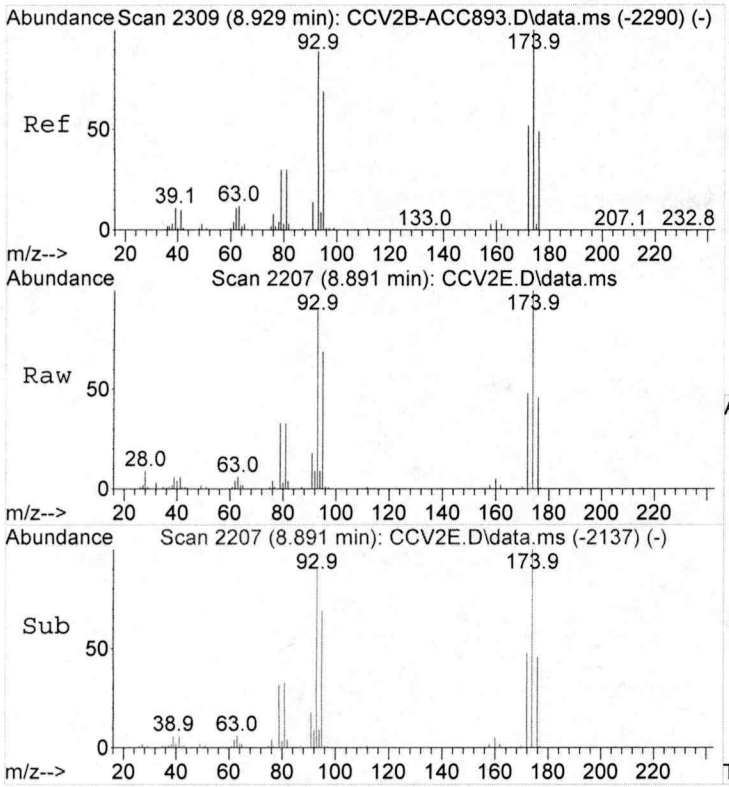


#43
tert-Amyl Methy Ether (TAME)
Concen: 2.105 ppbV
RT: 8.771 min Scan# 2164
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 73 Resp: 75869

Ion	Ratio	Lower	Upper
73	100		
87	25.3	0.0	55.8
55	40.3	0.0	59.9
43	41.4	8.4	68.4

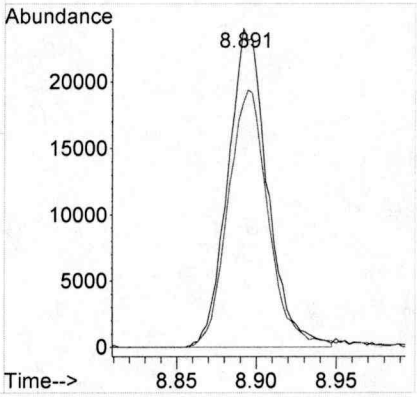


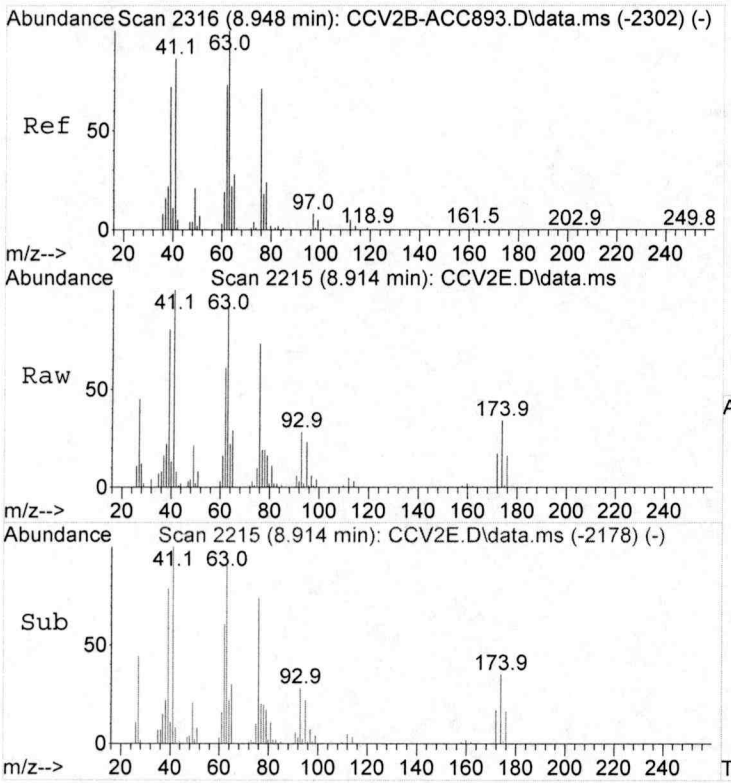


#44
Dibromomethane
Concen: 1.991 ppbV
RT: 8.891 min Scan# 2207
Delta R.T. -0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 93 Resp: 41273

Ion	Ratio	Lower	Upper
93	100		
95	82.9	61.5	101.5

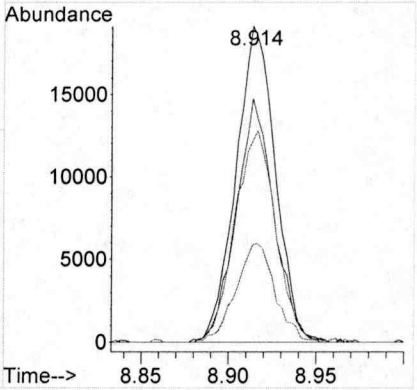


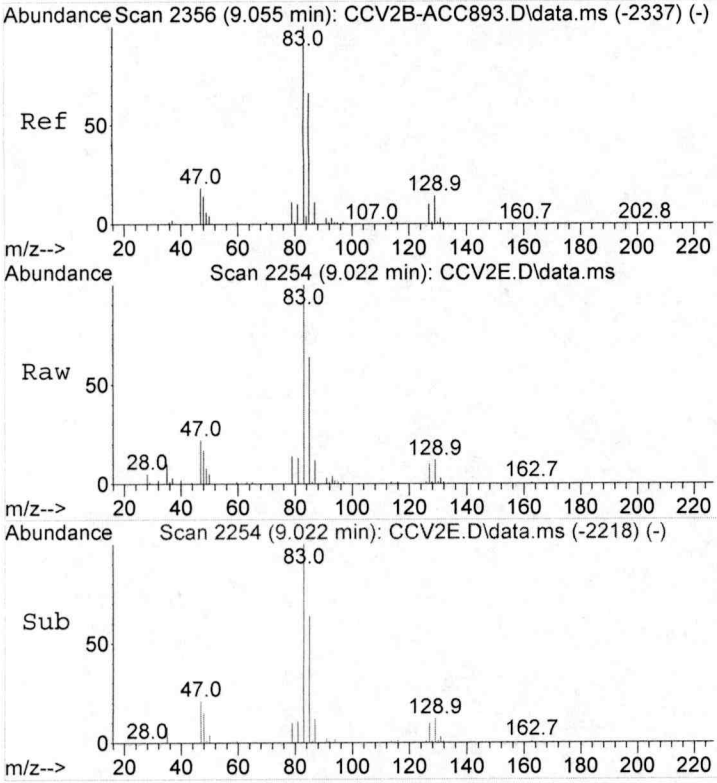


#45
1,2-Dichloropropane
Concen: 2.160 ppbV
RT: 8.914 min Scan# 2215
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 63 Resp: 29931

Ion	Ratio	Lower	Upper
63	100		
76	73.5	38.0	98.0
62	69.5	44.9	104.9
65	31.0	1.3	61.3

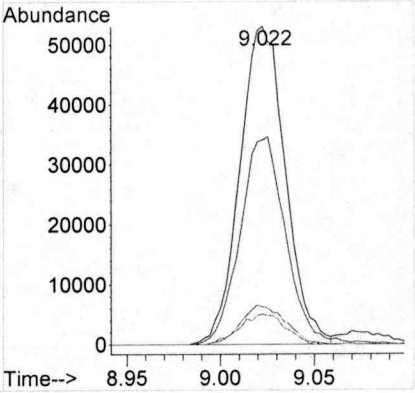


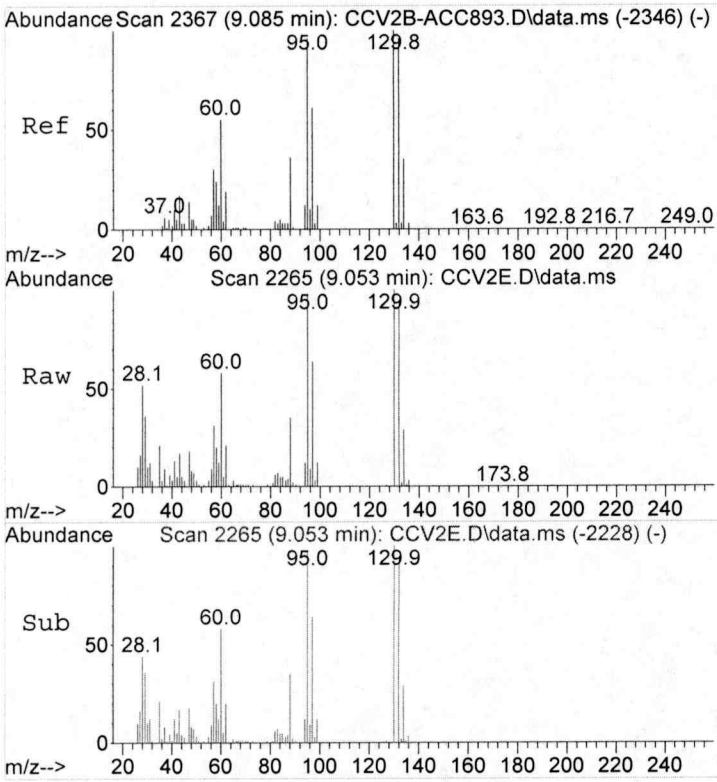


#46
Bromodichloromethane
Concen: 2.049 ppbV
RT: 9.022 min Scan# 2254
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 83 Resp: 89288

Ion	Ratio	Lower	Upper
83	100		
85	65.2	31.1	91.1
127	9.7	0.0	38.9
129	12.0	0.0	41.6

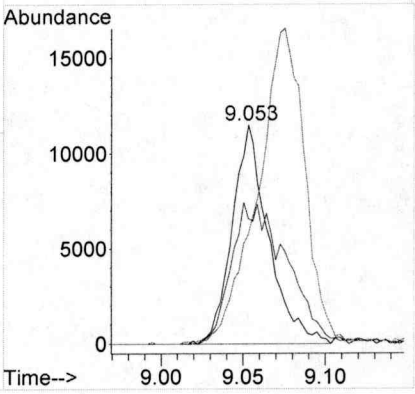


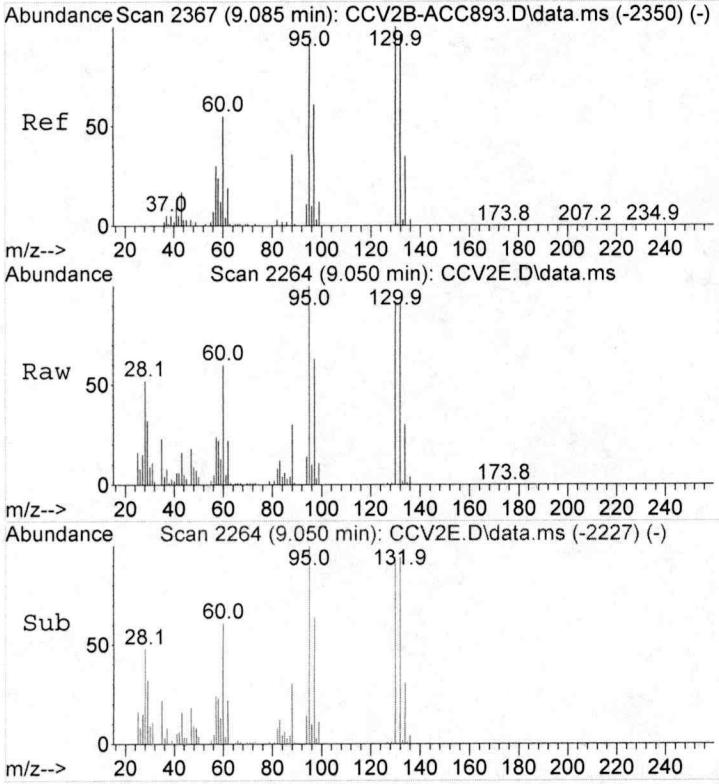


#47
1,4-Dioxane
Concen: 1.742 ppbV
RT: 9.053 min Scan# 2265
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 88 Resp: 17604

Ion	Ratio	Lower	Upper
88	100		
58	97.9	70.1	130.1
43	186.5	148.9	208.9

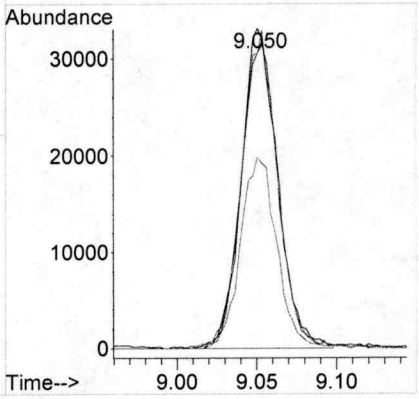


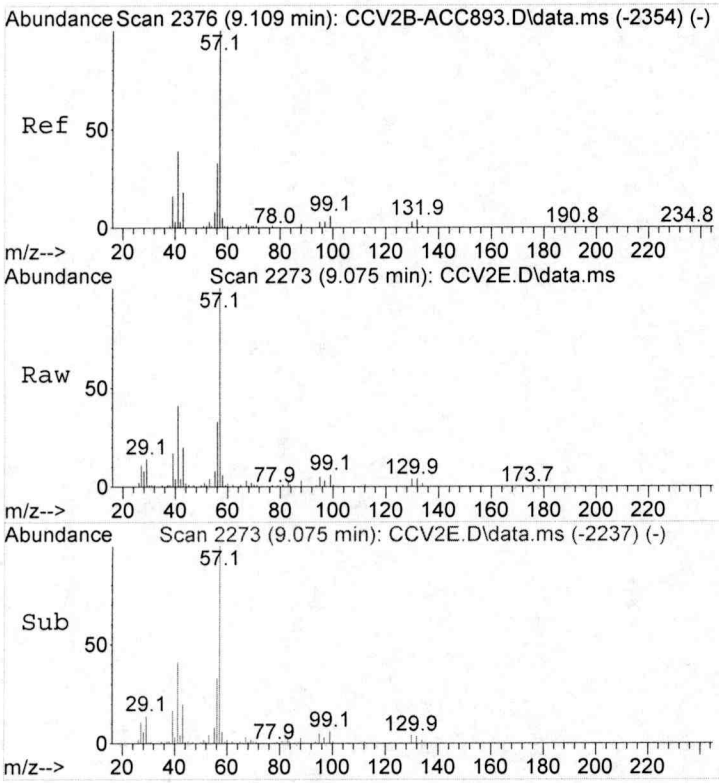


#48
Trichloroethene
Concen: 2.293 ppbV
RT: 9.050 min Scan# 2264
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 95 Resp: 52779

Ion	Ratio	Lower	Upper
95	100		
132	95.5	70.0	130.0
60	59.7	28.7	88.7
130	98.3	75.0	135.0

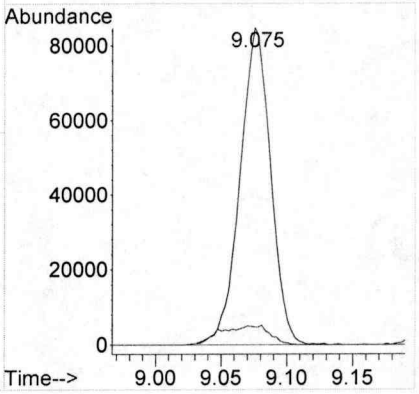


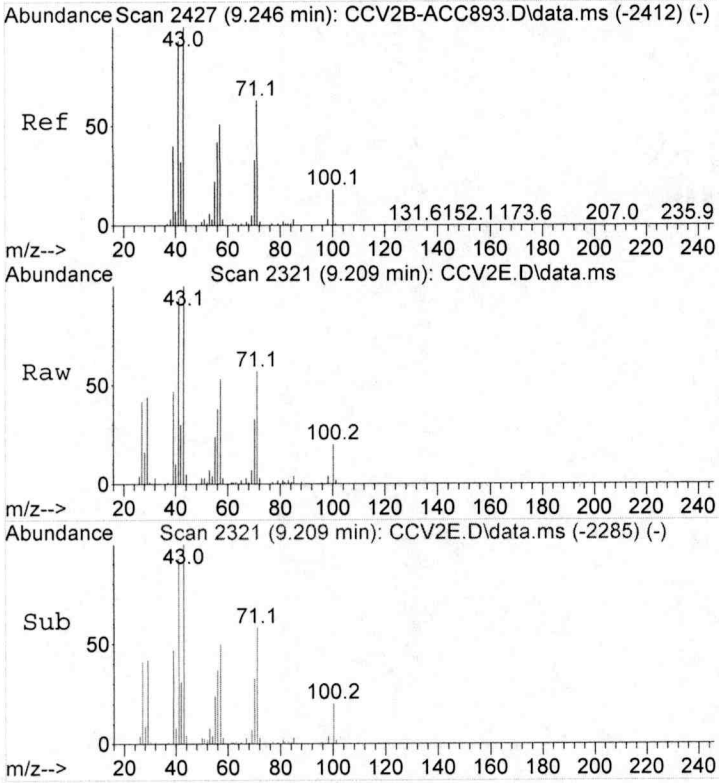


#49
2,2,4 Trimethylpentane
Concen: 2.303 ppbV
RT: 9.075 min Scan# 2273
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 57 Resp: 136923

Ion	Ratio	Lower	Upper
57	100		
99	9.7	7.0	10.4

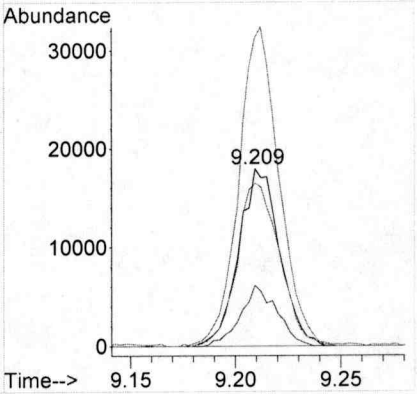


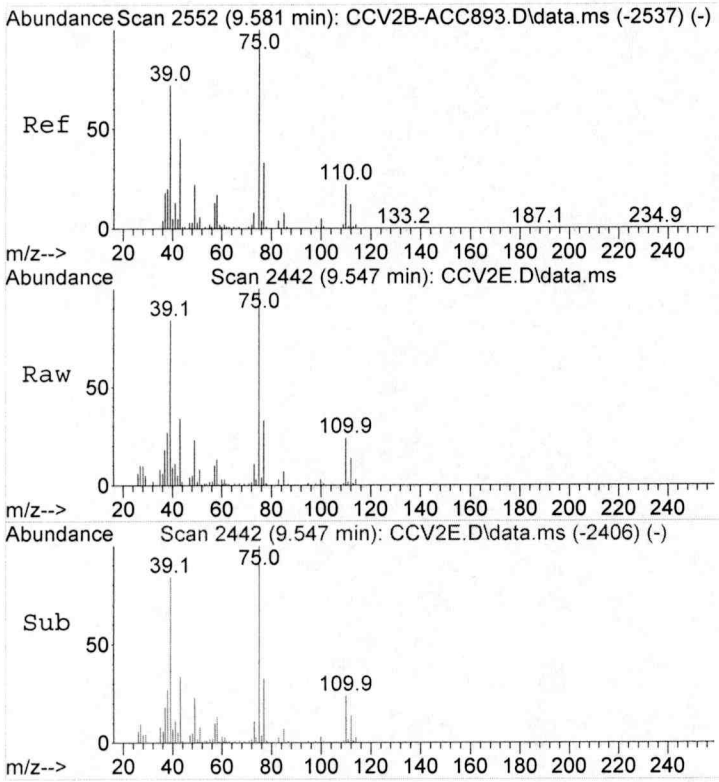


#50
Heptane
Concen: 2.161 ppbV
RT: 9.209 min Scan# 2321
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 71 Resp: 24218

Ion	Ratio	Lower	Upper
71	100		
100	30.4	1.2	61.2
57	95.7	61.4	121.4
43	177.6	139.4	199.4

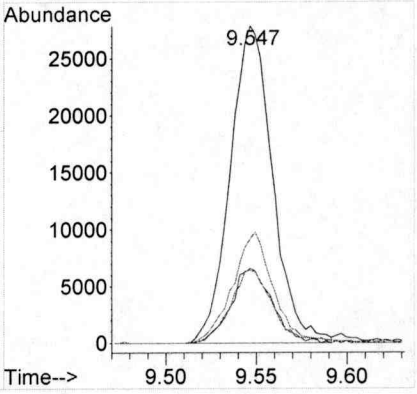


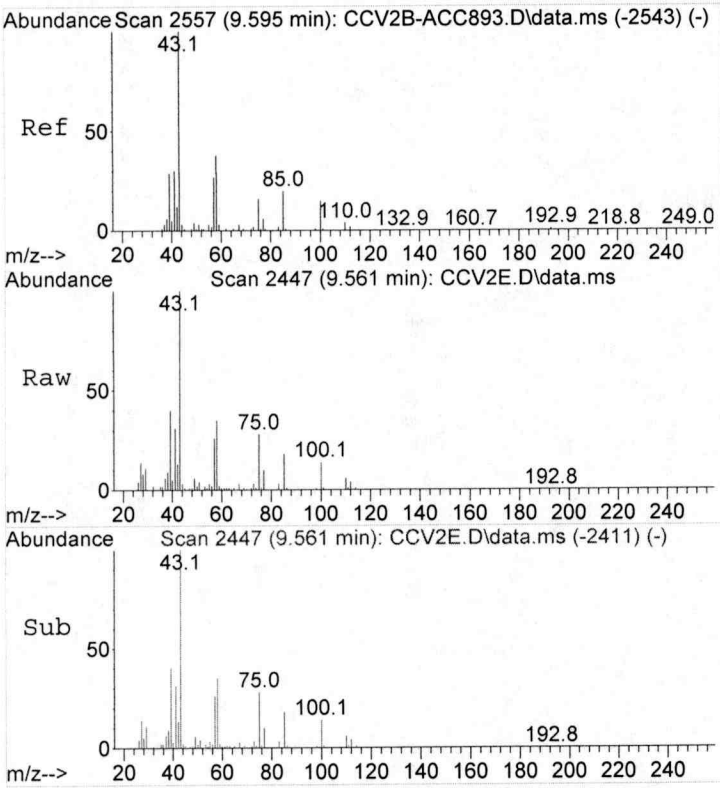


#51
cis-1,3-Dichloropropene
Concen: 2.003 ppbV
RT: 9.547 min Scan# 2442
Delta R.T. 0.000 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 75 Resp: 45264

Ion	Ratio	Lower	Upper
75	100		
110	23.1	0.0	51.2
49	23.3	0.0	51.7
77	33.8	1.6	61.6

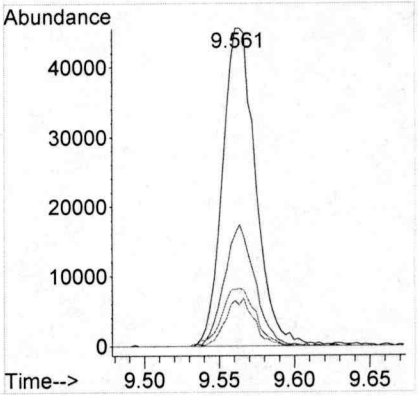


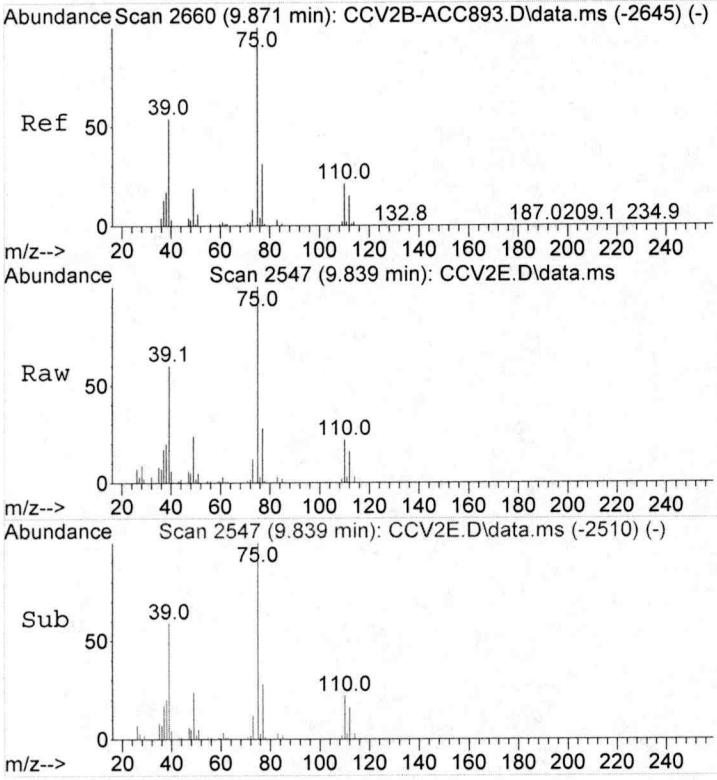


#52
4-Methyl-2-Pentanone
Concen: 2.271 ppbV
RT: 9.561 min Scan# 2447
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 43 Resp: 69406

Ion	Ratio	Lower	Upper
43	100		
58	35.3	5.8	65.8
85	18.7	0.0	47.9
100	12.8	0.0	44.7

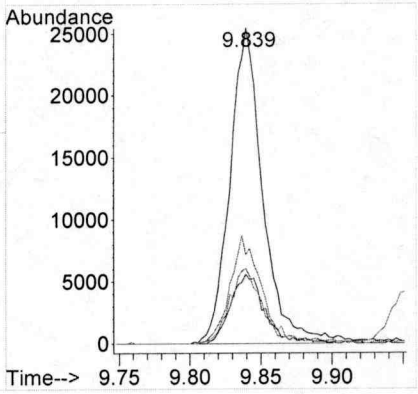


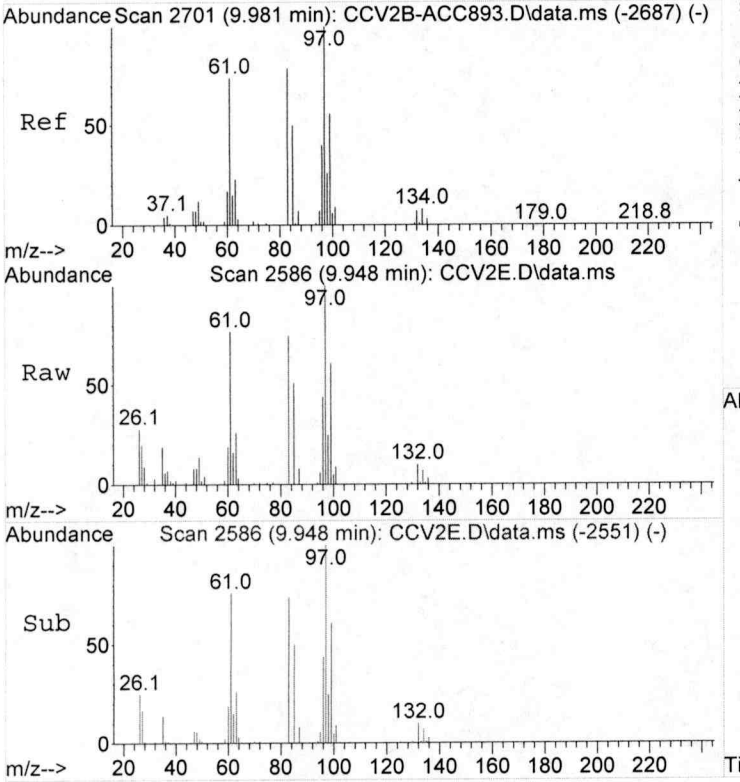


#53
trans-1,3-Dichloropropene
Concen: 1.851 ppbV
RT: 9.839 min Scan# 2547
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 75 Resp: 40638

Ion	Ratio	Lower	Upper
75	100		
110	22.2	0.0	50.8
49	24.0	0.0	51.0
77	32.6	2.1	62.1

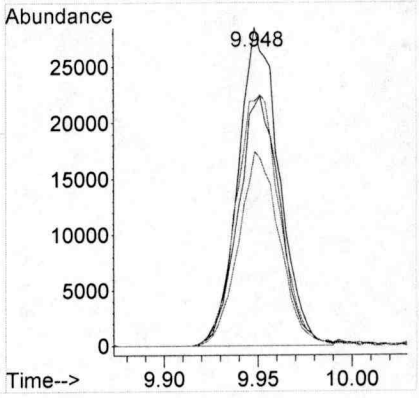


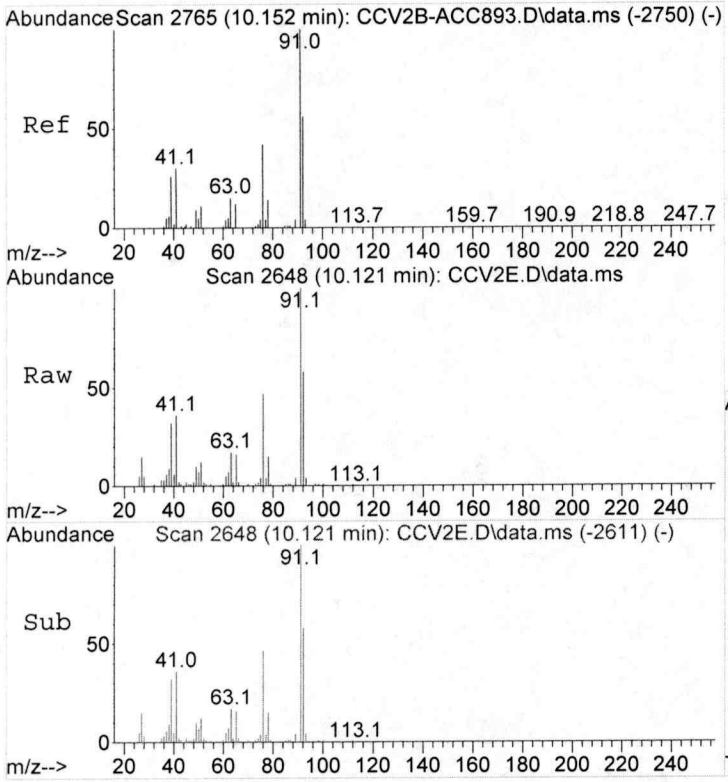


#54
1,1,2-Trichloroethane
Concen: 2.069 ppbV
RT: 9.948 min Scan# 2586
Delta R.T. -0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 97 Resp: 43403

Ion	Ratio	Lower	Upper
97	100		
83	79.9	52.3	112.3
61	84.1	48.8	108.8
99	61.0	32.0	92.0

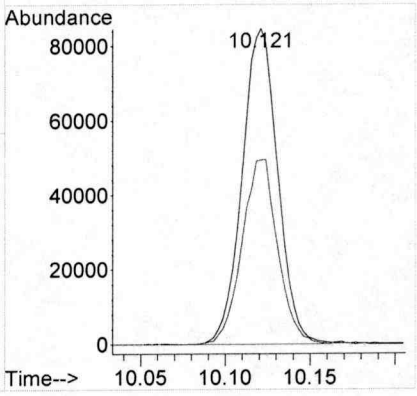


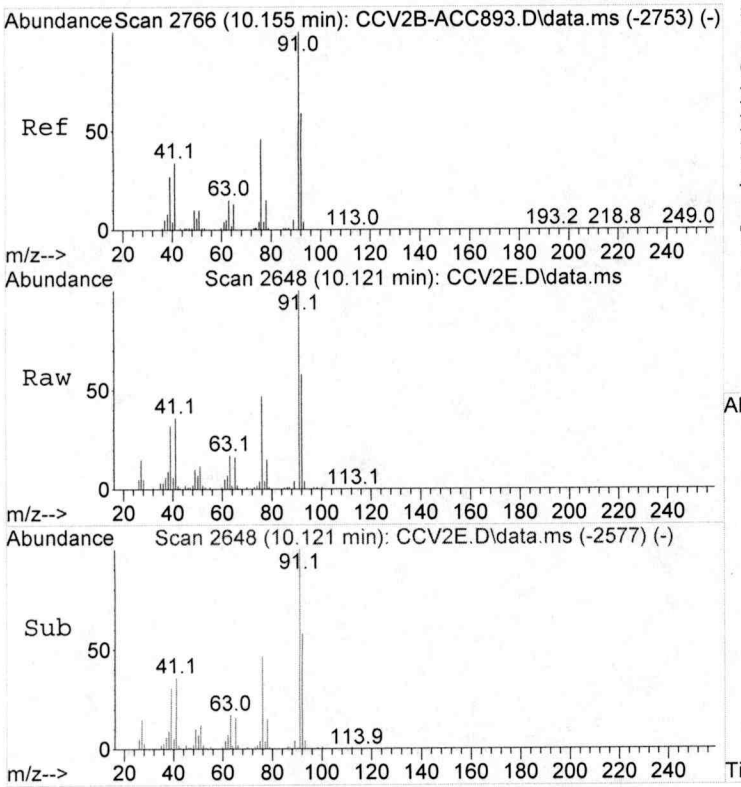


#56
Toluene
Concen: 1.931 ppbV
RT: 10.121 min Scan# 2648
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 91 Resp: 123458

Ion	Ratio	Lower	Upper
91	100		
92	58.8	28.5	88.5

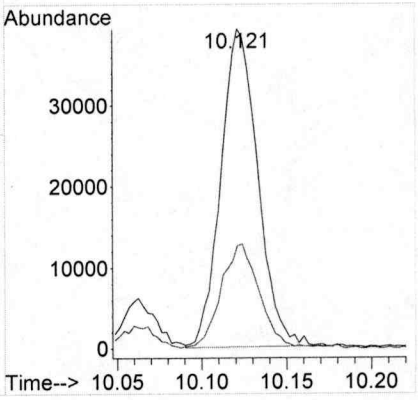


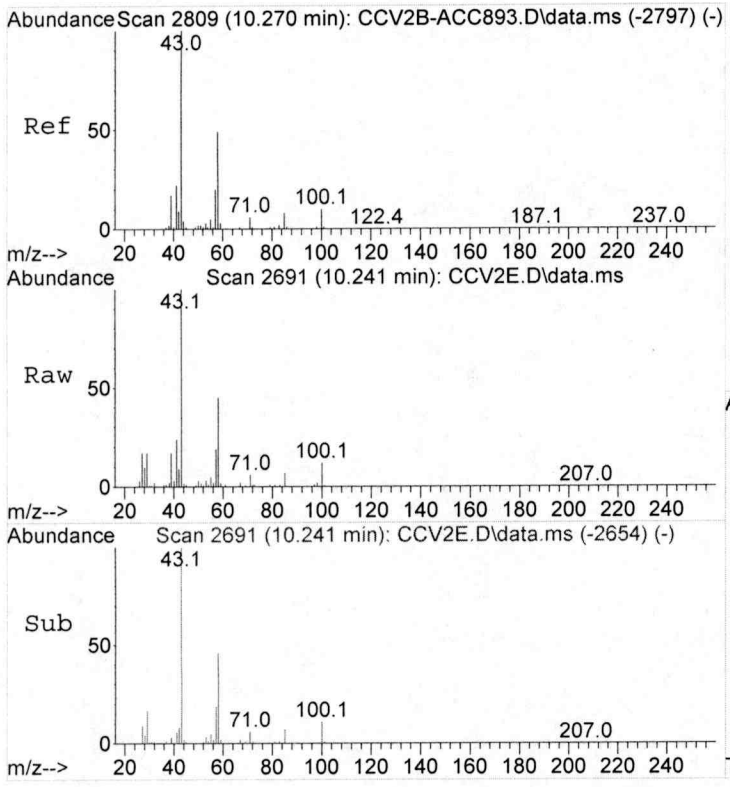


#57
1,3 Dichloropropane
Concen: 1.973 ppbV
RT: 10.121 min Scan# 2648
Delta R.T. -0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 76 Resp: 59274

Ion	Ratio	Lower	Upper
76	100		
78	33.4	13.2	53.2

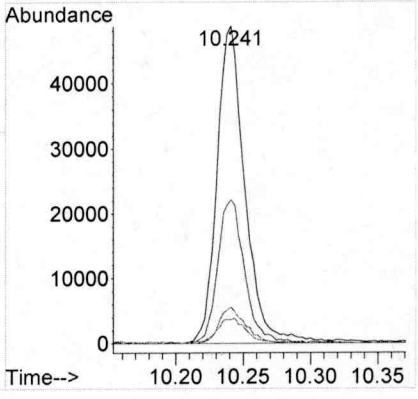


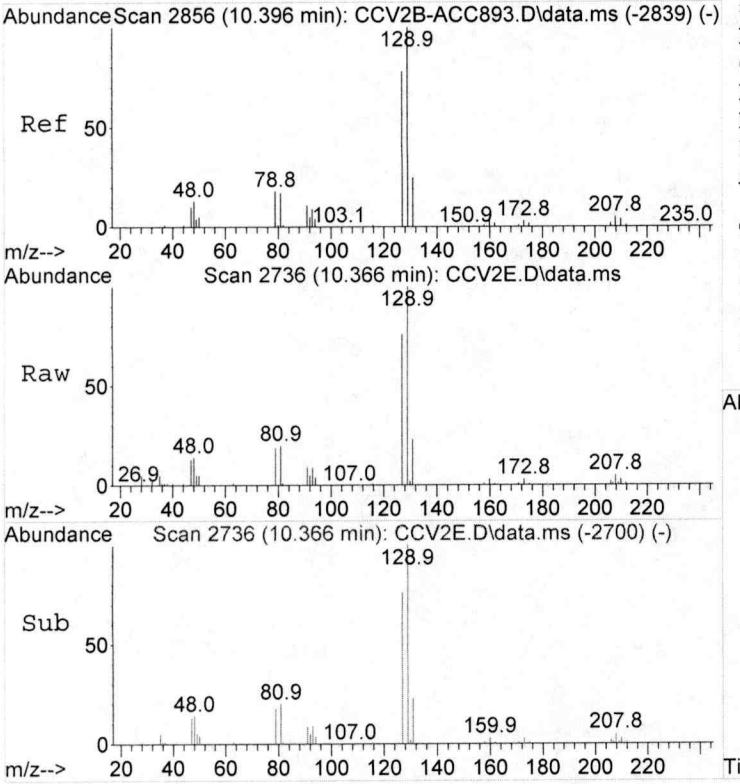


#58
2-Hexanone
Concen: 2.190 ppbV
RT: 10.241 min Scan# 2691
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 43 Resp: 70294

Ion	Ratio	Lower	Upper
43	100		
58	43.6	18.3	78.3
85	8.0	0.0	38.6
100	11.1	0.0	39.7

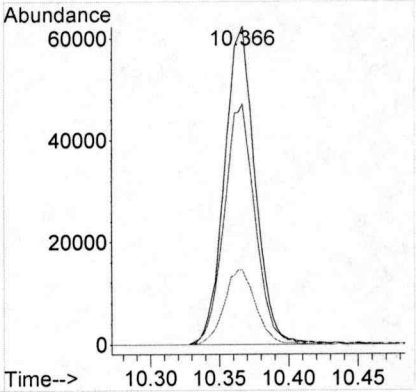


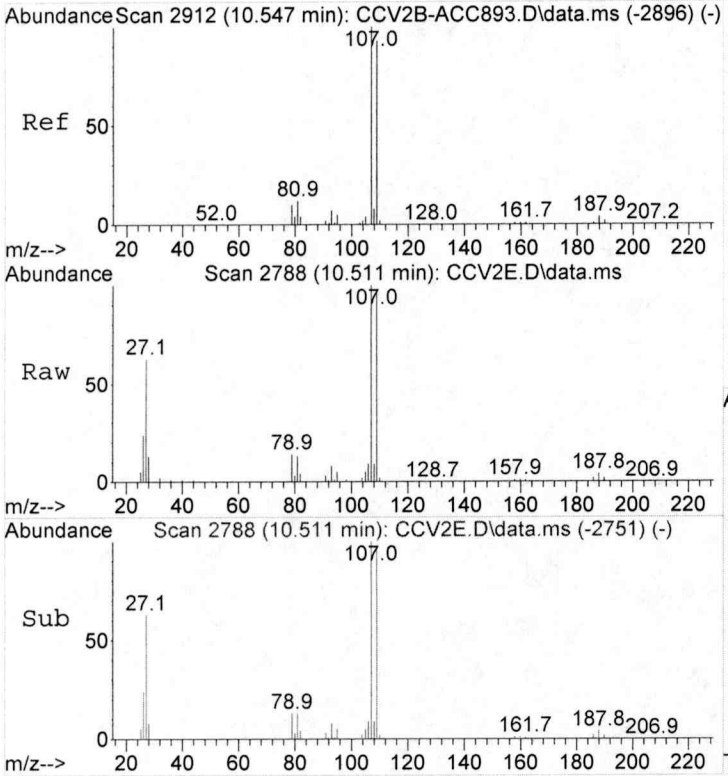


#59
Dibromochloromethane
Concen: 1.995 ppbV
RT: 10.366 min Scan# 2736
Delta R.T. -0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:129 Resp: 96062

Ion	Ratio	Lower	Upper
129	100		
127	76.2	46.7	106.7
131	24.1	0.0	54.3

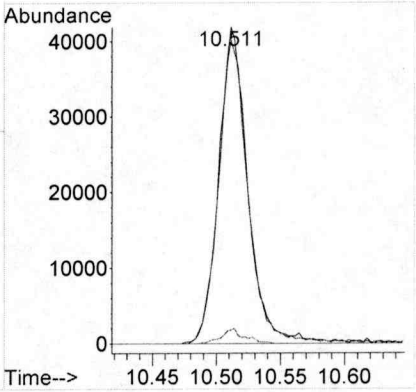


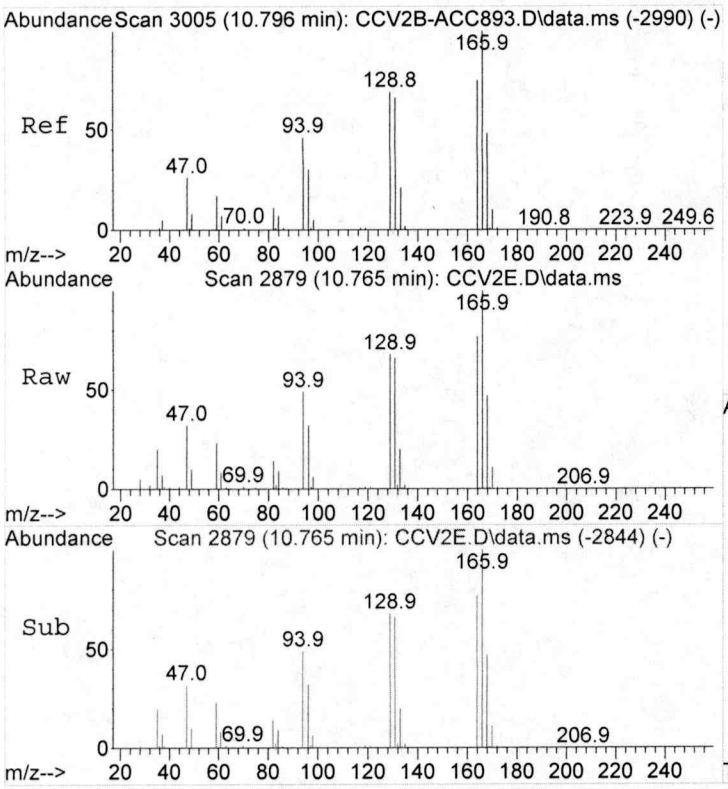


#60
1,2-Dibromoethane (EDB)
Concen: 1.959 ppbV
RT: 10.511 min Scan# 2788
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:107 Resp: 66503

Ion	Ratio	Lower	Upper
107	100		
109	96.3	66.9	126.9
188	3.7	0.0	33.8

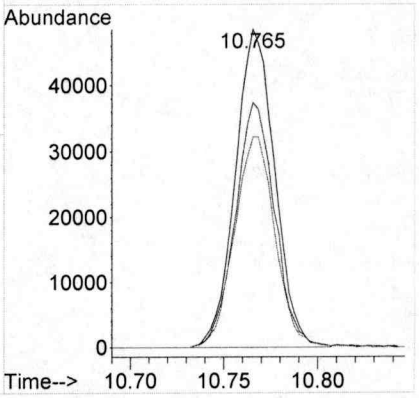


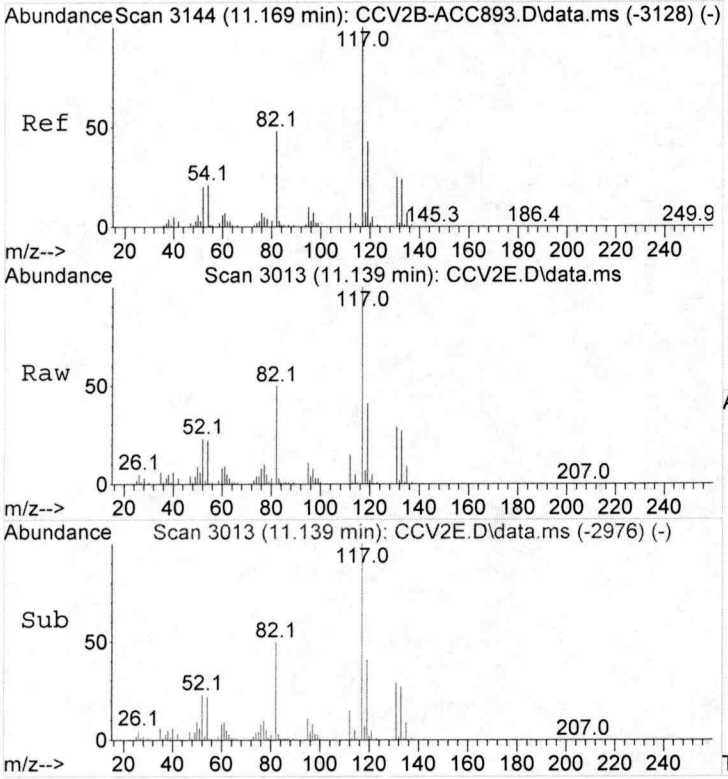


#61
Tetrachloroethene
Concen: 1.888 ppbV
RT: 10.765 min Scan# 2879
Delta R.T. -0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:166 Resp: 70875

Ion	Ratio	Lower	Upper
166	100		
164	77.3	47.1	107.1
131	68.3	37.3	97.3

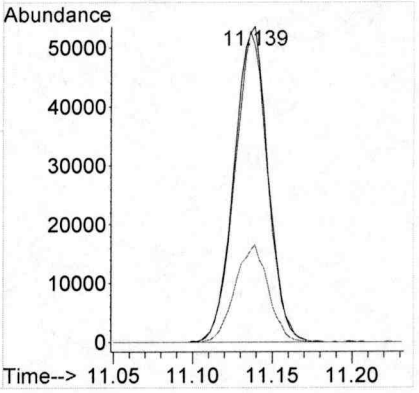


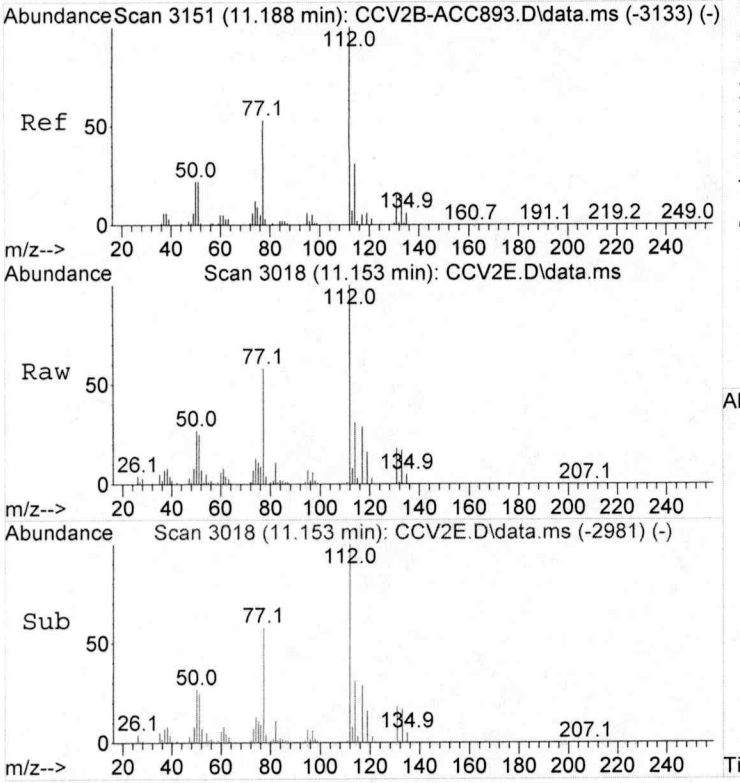


#62
1,1,1,2-Tetrachloroethane
Concen: 1.930 ppbV
RT: 11.139 min Scan# 3013
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:131 Resp: 78994

Ion	Ratio	Lower	Upper
131	100		
133	95.2	74.9	114.9
135	30.2	10.5	50.5

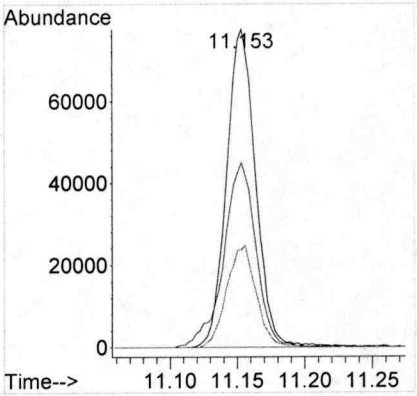


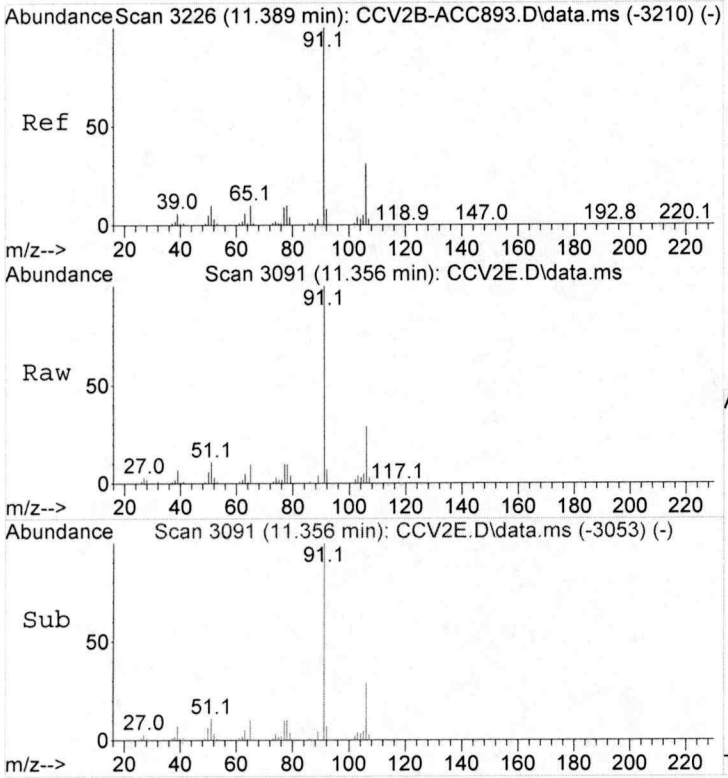


#64
Chlorobenzene
Concen: 1.982 ppbV
RT: 11.153 min Scan# 3018
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:112 Resp: 115413

Ion	Ratio	Lower	Upper
112	100		
77	64.4	35.2	95.2
114	32.6	2.4	62.4

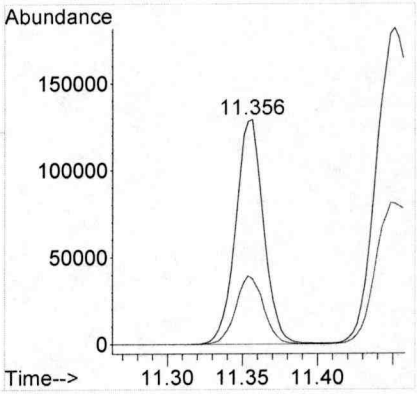


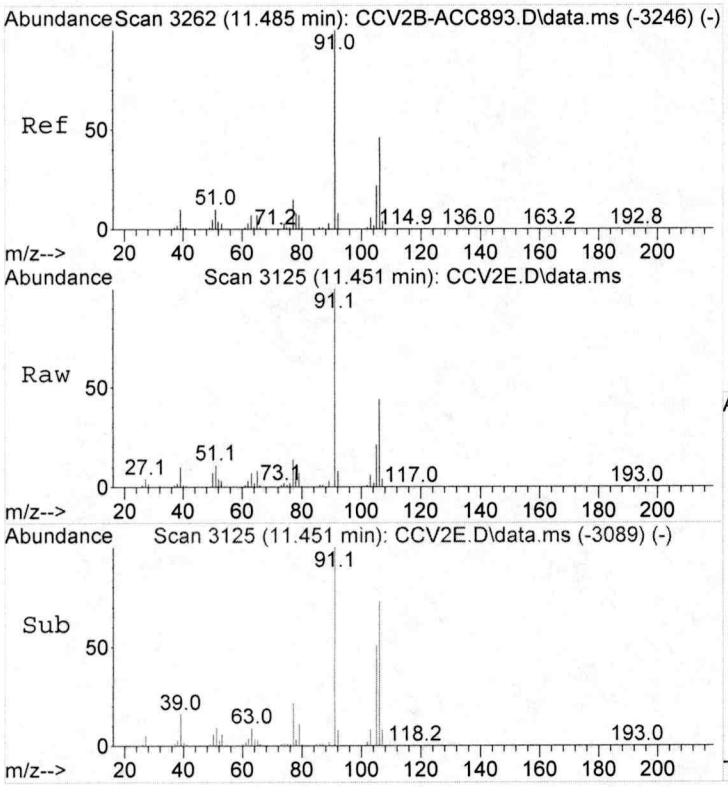


#65
Ethylbenzene
Concen: 2.276 ppbV
RT: 11.356 min Scan# 3091
Delta R.T. 0.005 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 91 Resp: 168001

Ion	Ratio	Lower	Upper
91	100		
106	30.3	0.0	59.5

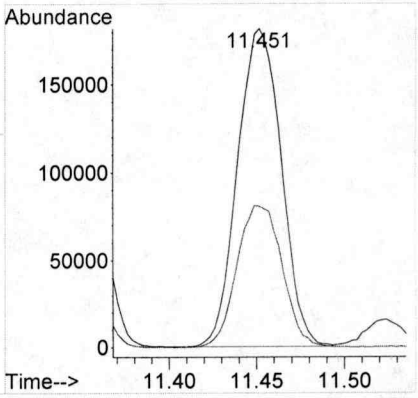


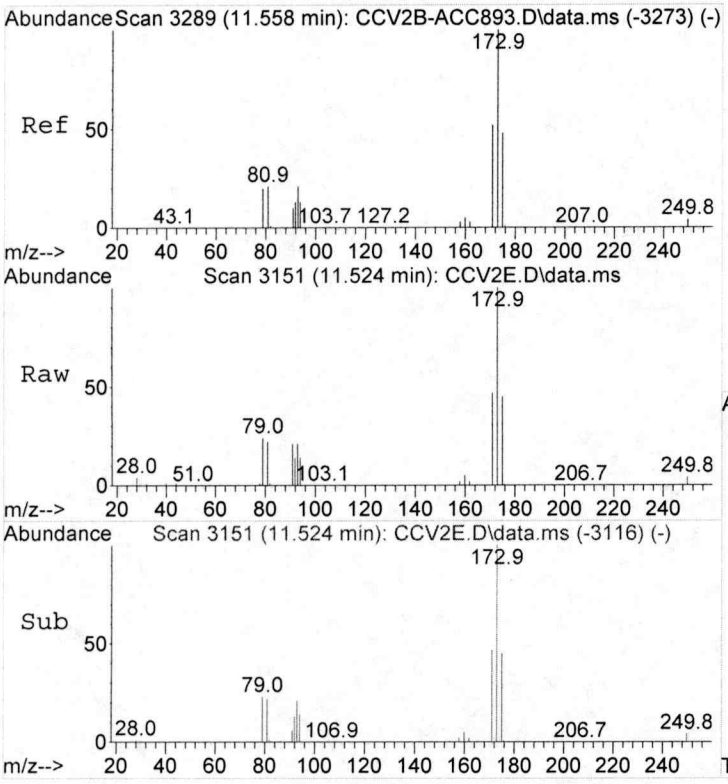


#66
m,p-Xylene
Concen: 4.608 ppbV
RT: 11.451 min Scan# 3125
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 91 Resp: 314625

Ion	Ratio	Lower	Upper
91	100		
106	46.5	16.6	76.6

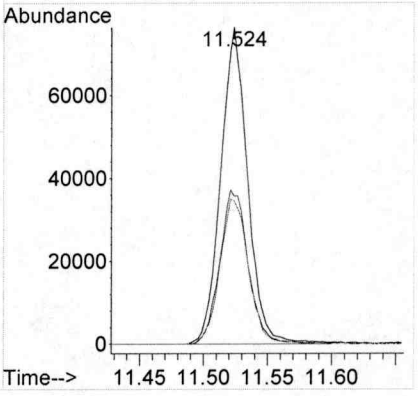


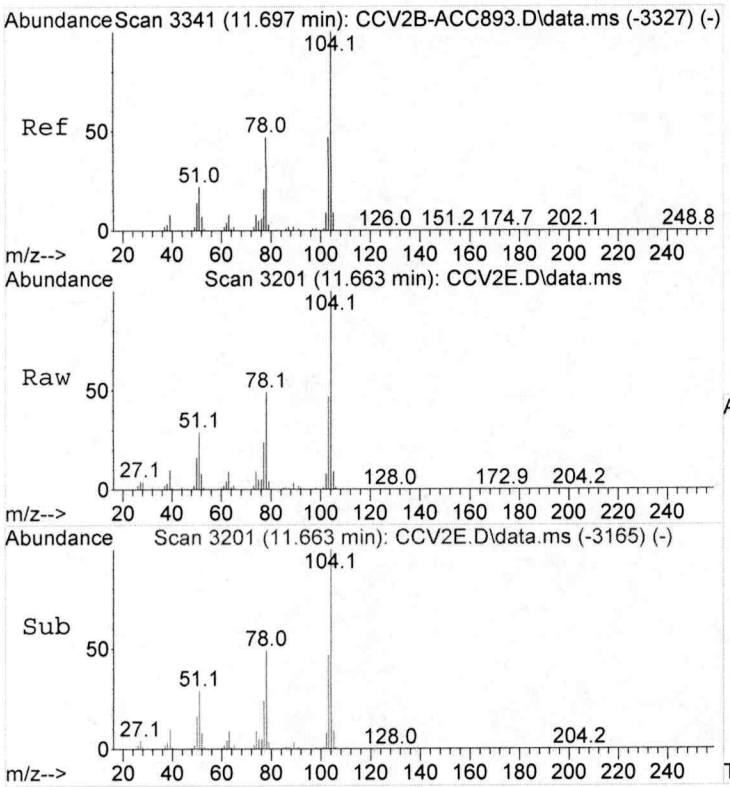


#67
Bromoform
Concen: 2.012 ppbV
RT: 11.524 min Scan# 3151
Delta R.T. -0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:173 Resp: 111674

Ion	Ratio	Lower	Upper
173	100		
171	51.5	20.9	80.9
175	48.4	19.1	79.1

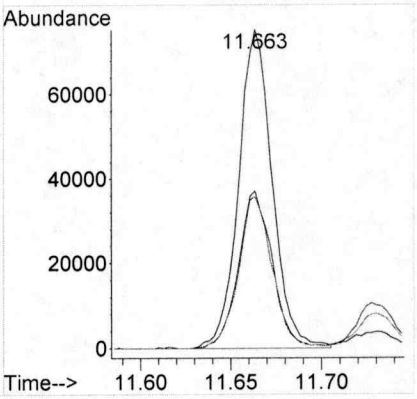


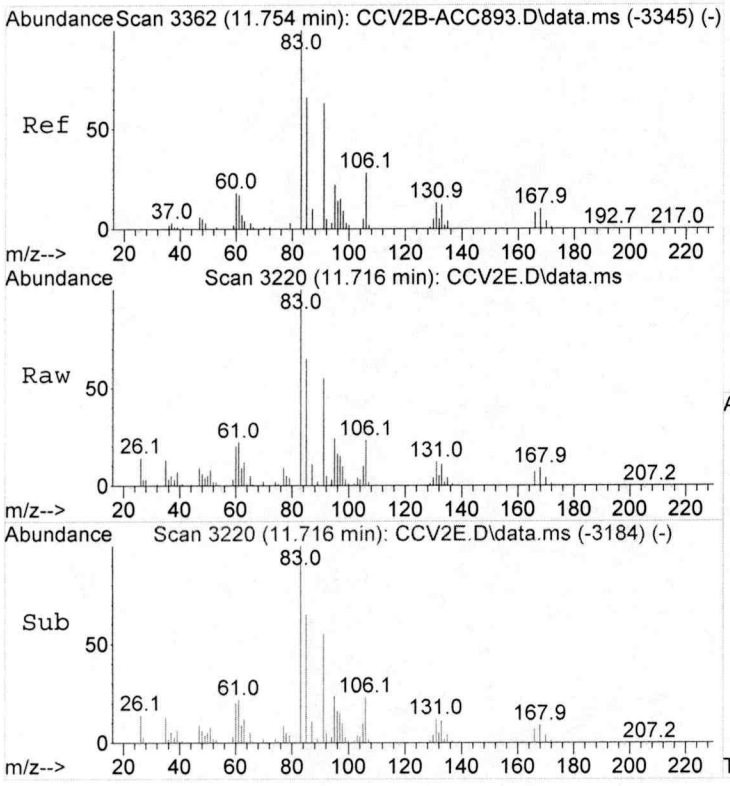


#68
Styrene
Concen: 2.273 ppbV
RT: 11.663 min Scan# 3201
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:104 Resp: 96751

Ion	Ratio	Lower	Upper
104	100		
78	49.7	20.0	80.0
103	47.8	16.8	76.8

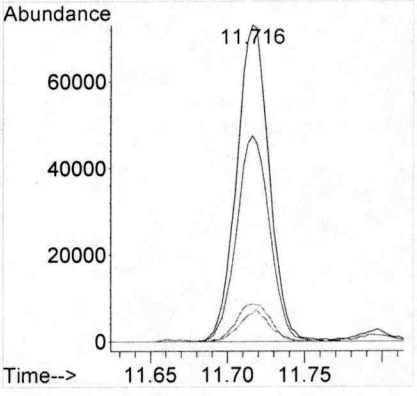


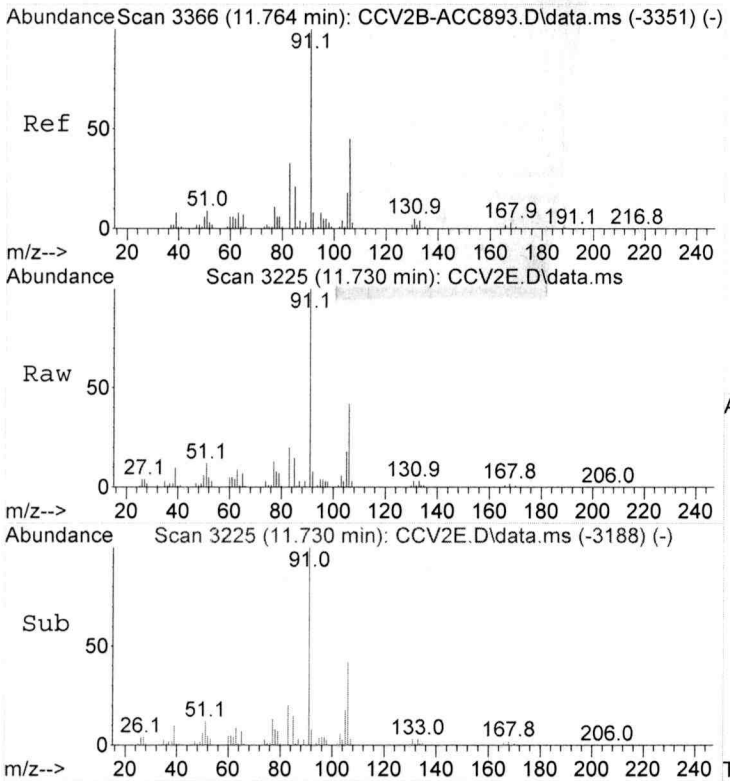


#69
1,1,2,2-Tetrachloroethane
Concen: 1.843 ppbV
RT: 11.716 min Scan# 3220
Delta R.T. -0.000 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 83 Resp: 107017

Ion	Ratio	Lower	Upper
83	100		
85	66.1	34.8	94.8
168	9.1	0.0	38.8
131	12.7	0.0	42.5

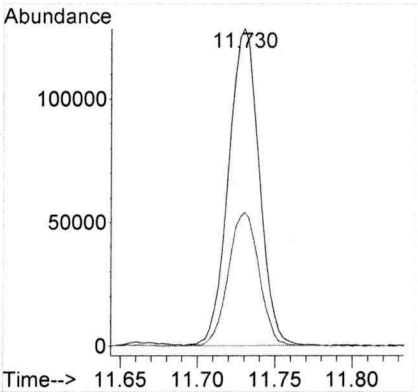


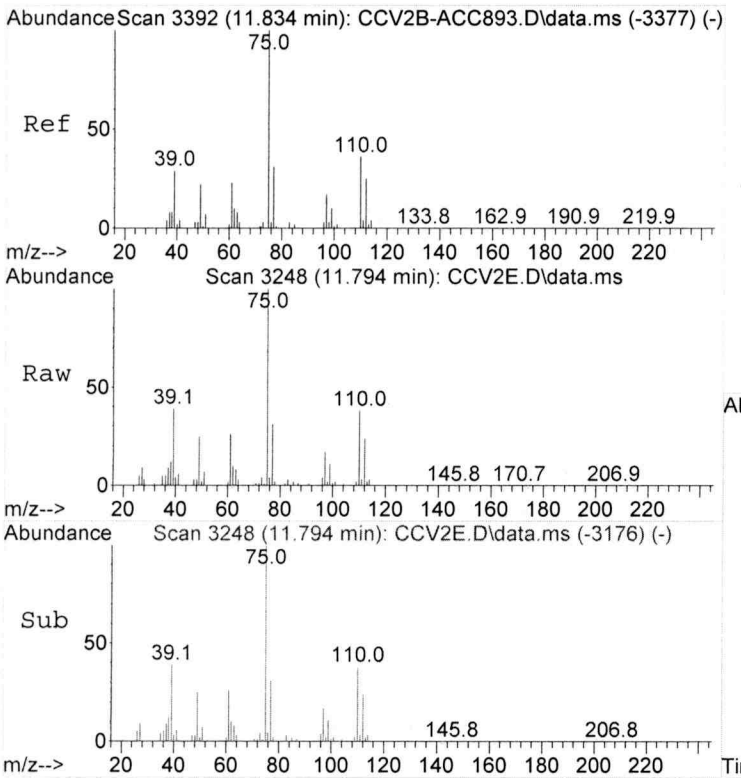


#70
o-Xylene
Concen: 2.358 ppbV
RT: 11.730 min Scan# 3225
Delta R.T. 0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 91 Resp: 175901

Ion	Ratio	Lower	Upper
91	100		
106	42.1	13.1	73.1

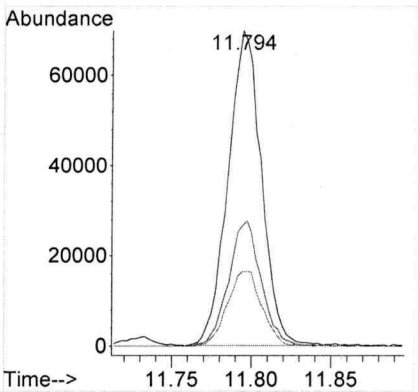


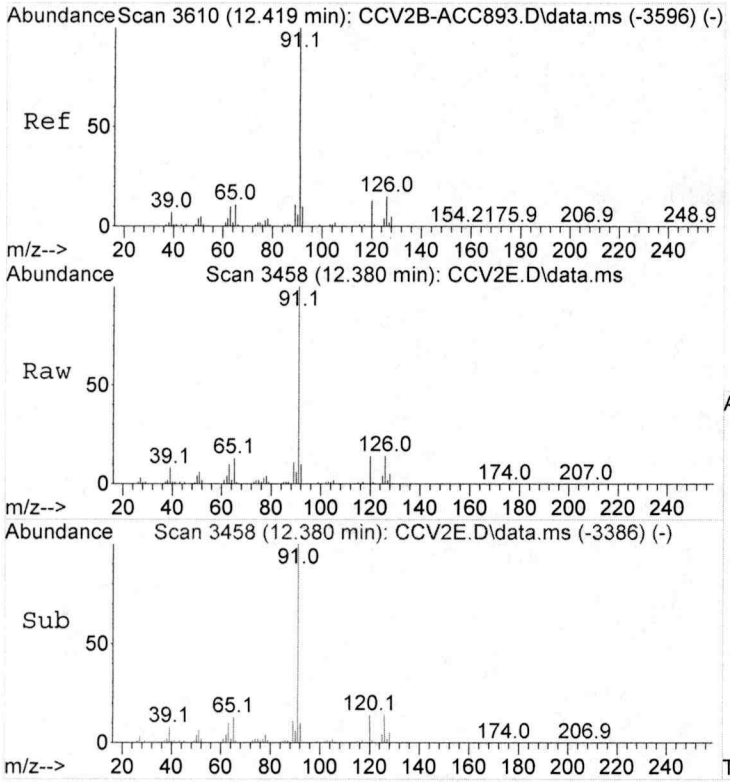


#71
1,2,3-Trichloropropane
Concen: 2.072 ppbV
RT: 11.794 min Scan# 3248
Delta R.T. 0.000 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 75 Resp: 101291

Ion	Ratio	Lower	Upper
75	100		
110	39.0	19.4	59.4
112	24.6	5.5	45.5

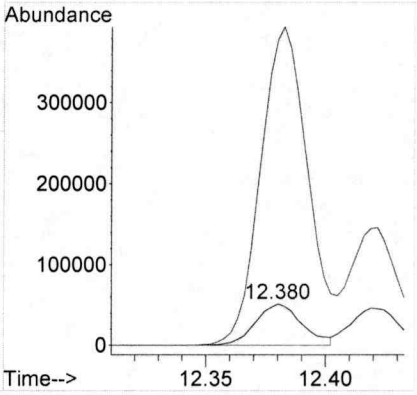


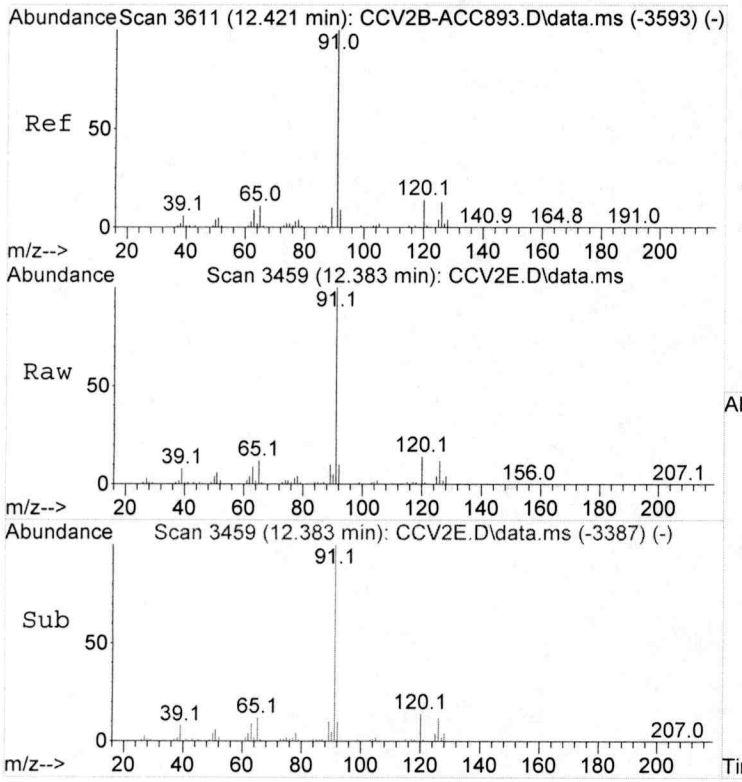


#75
2-Chlorotoluene
Concen: 2.283 ppbV
RT: 12.380 min Scan# 3458
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:126 Resp: 69608

Ion	Ratio	Lower	Upper
126	100		
91	784.6	760.9	800.9

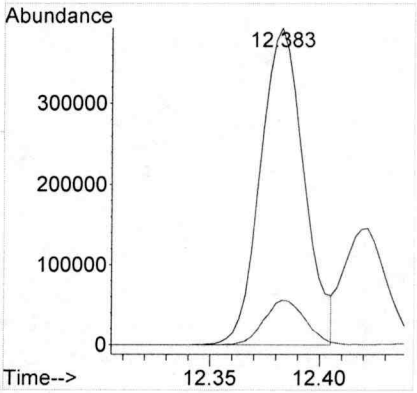


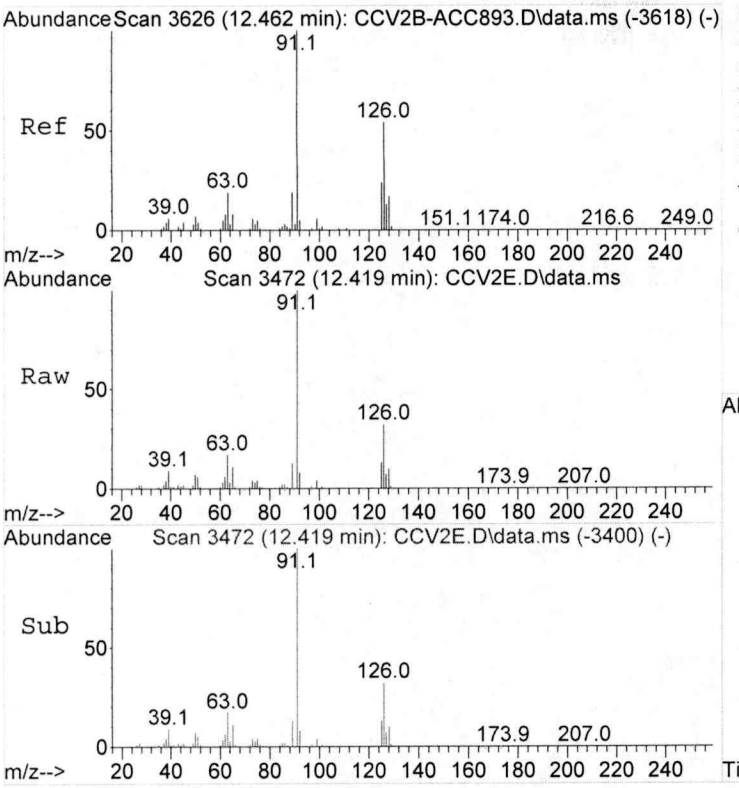


#76
n-Propylbenzene
Concen: 2.363 ppbV
RT: 12.383 min Scan# 3459
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 91 Resp: 546156

Ion	Ratio	Lower	Upper
91	100		
120	13.5	0.0	33.8

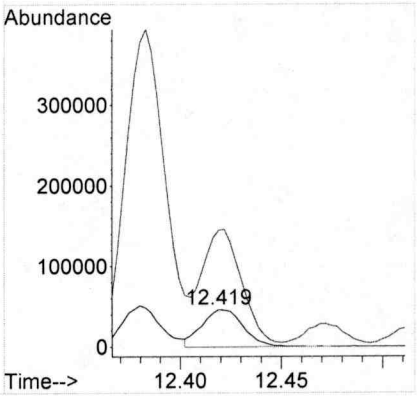


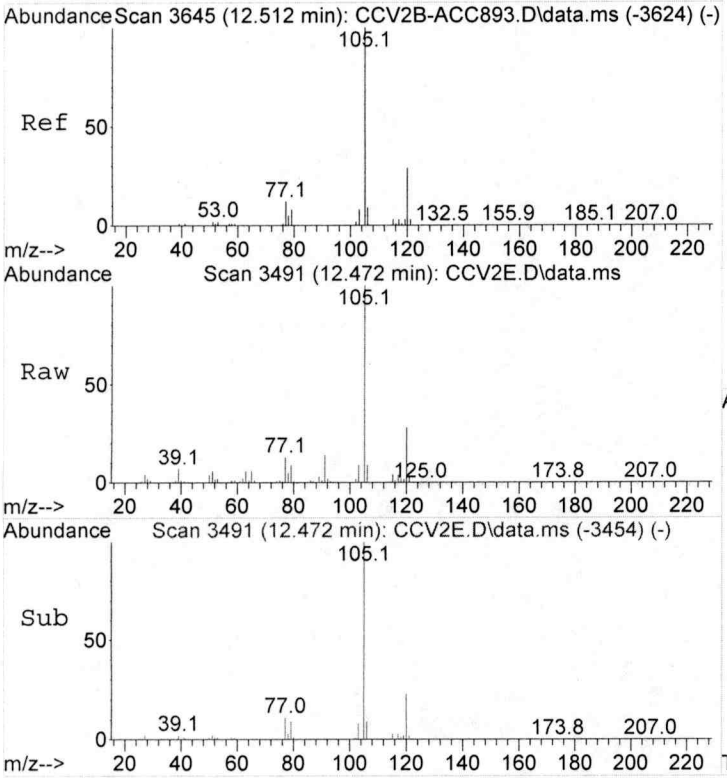


#77
4-Chlorotoluene
Concen: 2.256 ppbV
RT: 12.419 min Scan# 3472
Delta R.T. 0.000 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:126 Resp: 65187

Ion	Ratio	Lower	Upper
126	100		
91	303.6	266.3	306.3

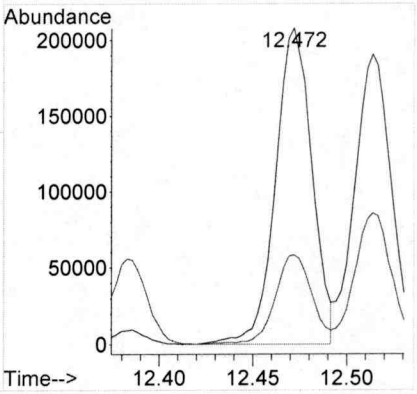


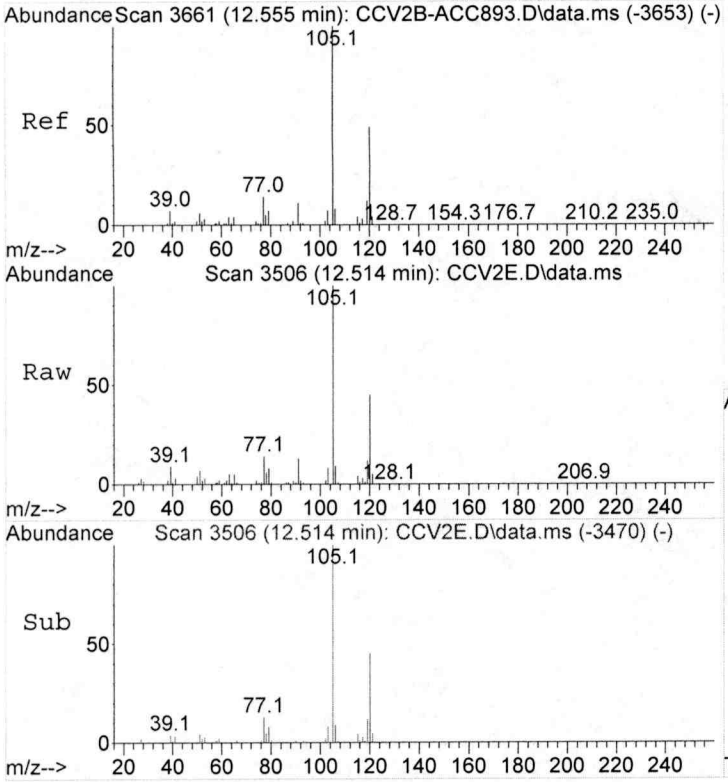


#78
4-Ethyltoluene
Concen: 2.392 ppbV
RT: 12.472 min Scan# 3491
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:105 Resp: 280366

Ion	Ratio	Lower	Upper
105	100		
120	28.3	0.0	57.7

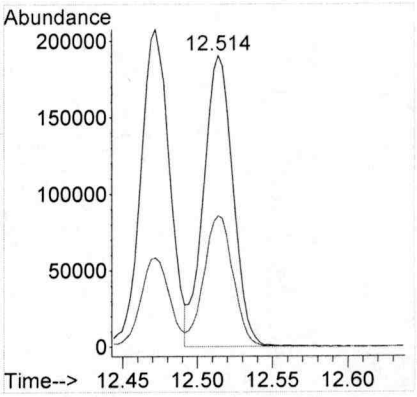


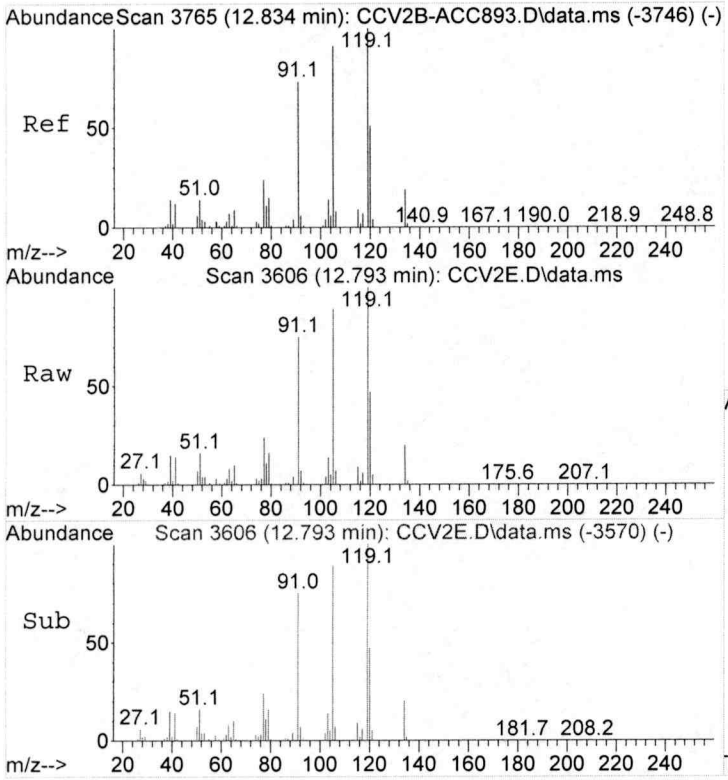


#79
1,3,5-Trimethylbenzene
Concen: 2.436 ppbV
RT: 12.514 min Scan# 3506
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:105 Resp: 256395

Ion	Ratio	Lower	Upper
105	100		
120	45.0	17.0	77.0

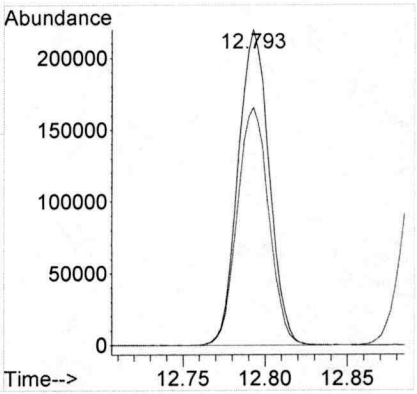


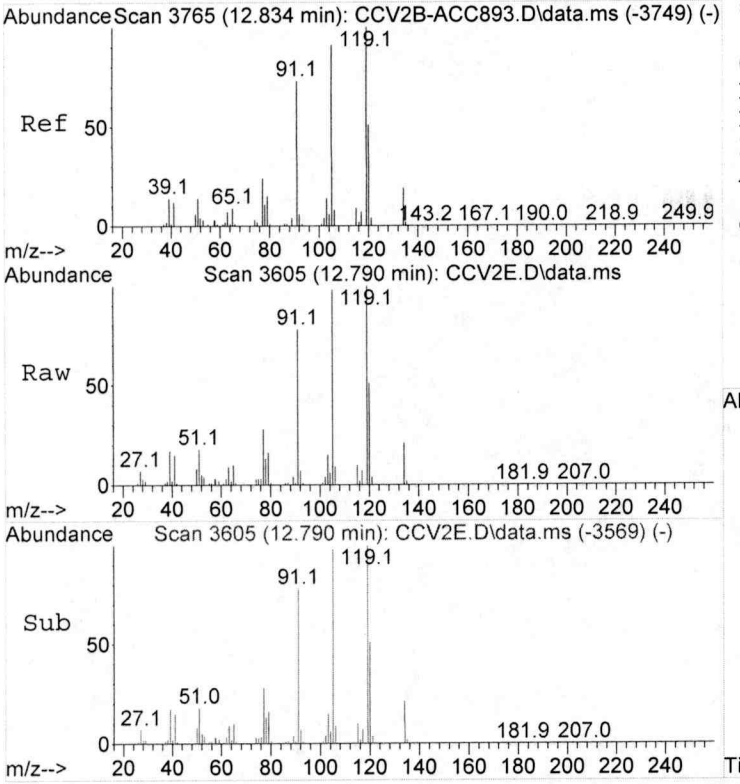


#80
tert-Butylbenzene
Concen: 2.414 ppbV
RT: 12.793 min Scan# 3606
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:119 Resp: 289000

Ion	Ratio	Lower	Upper
119	100		
91	76.9	61.8	92.8

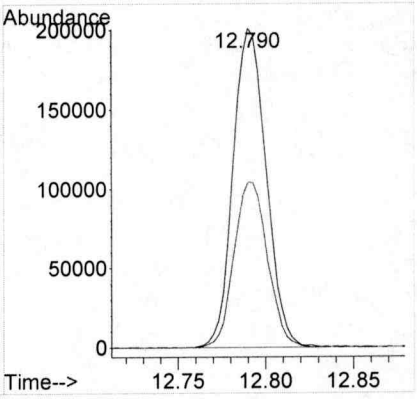


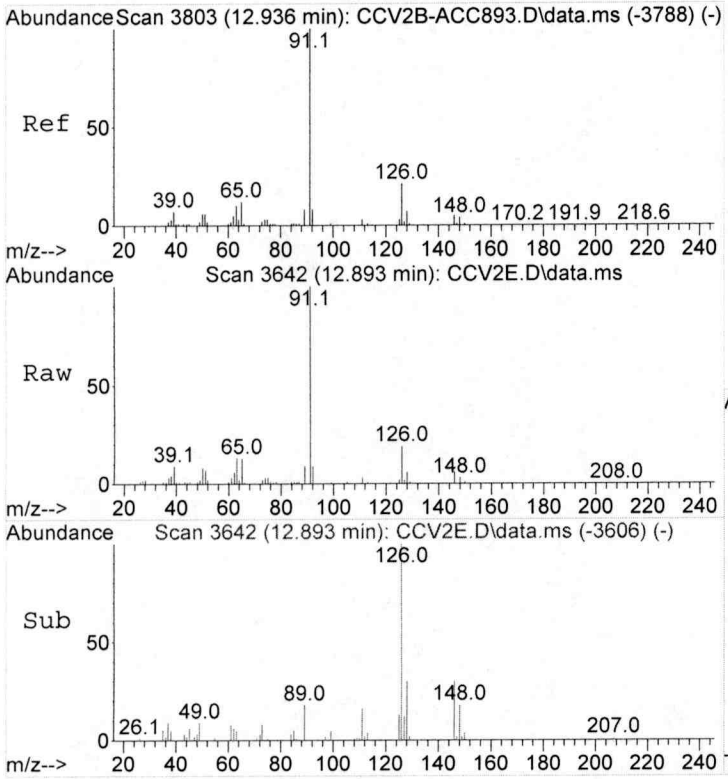


#81
1,2,4-Trimethylbenzene
Concen: 2.392 ppbV
RT: 12.790 min Scan# 3605
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:105 Resp: 263142

Ion	Ratio	Lower	Upper
105	100		
120	52.5	22.2	82.2

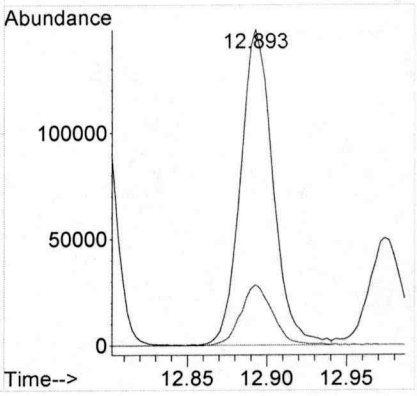


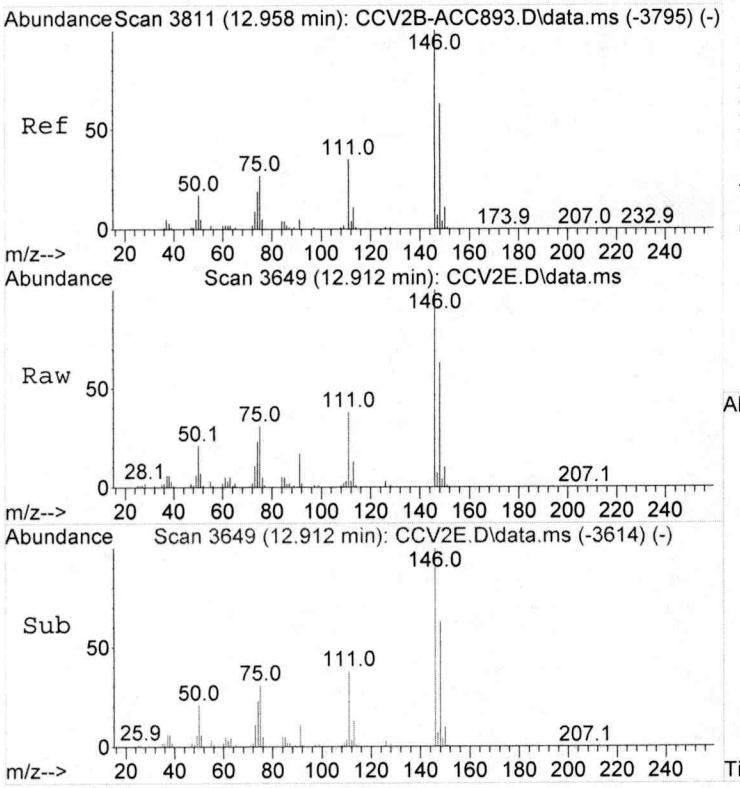


#82
Benzyl Chloride
Concen: 2.280 ppbV
RT: 12.893 min Scan# 3642
Delta R.T. -0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 91 Resp: 210508

Ion	Ratio	Lower	Upper
91	100		
126	19.0	0.0	49.9

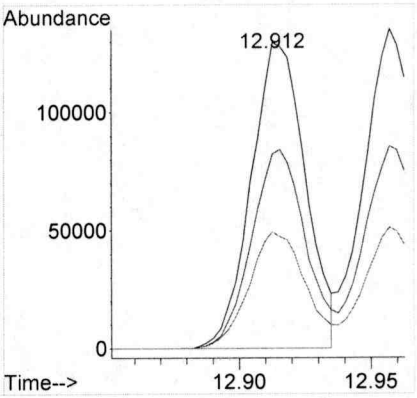


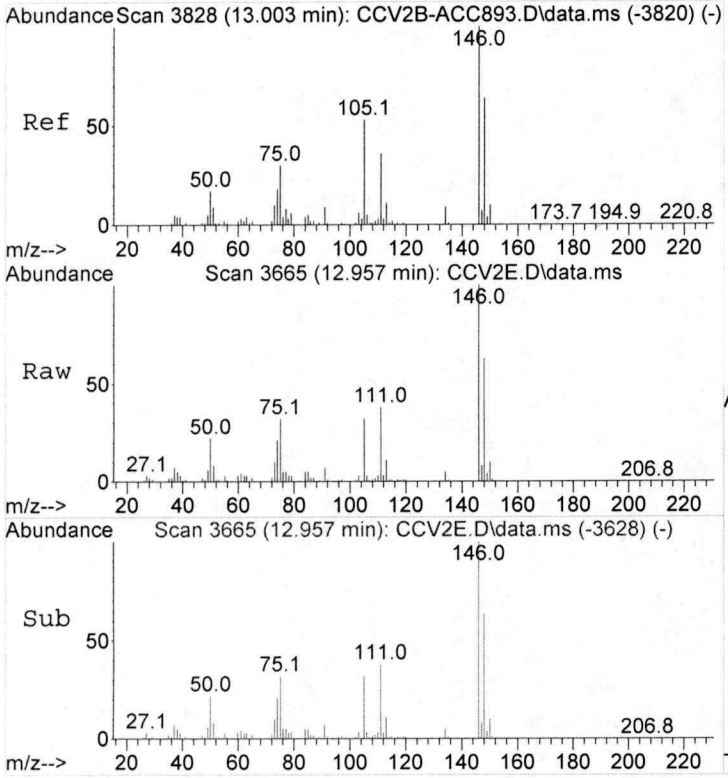


#83
1,3-Dichlorobenzene
Concen: 2.224 ppbV
RT: 12.912 min Scan# 3649
Delta R.T. -0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:146 Resp: 185515

Ion	Ratio	Lower	Upper
146	100		
148	65.9	34.5	94.5
111	40.3	9.7	69.7

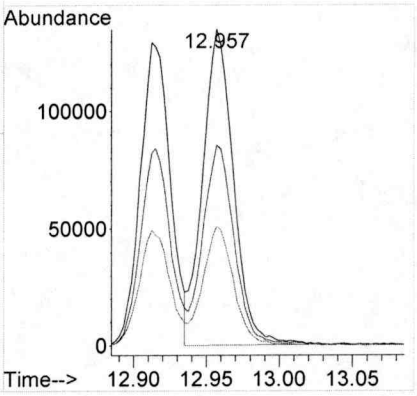


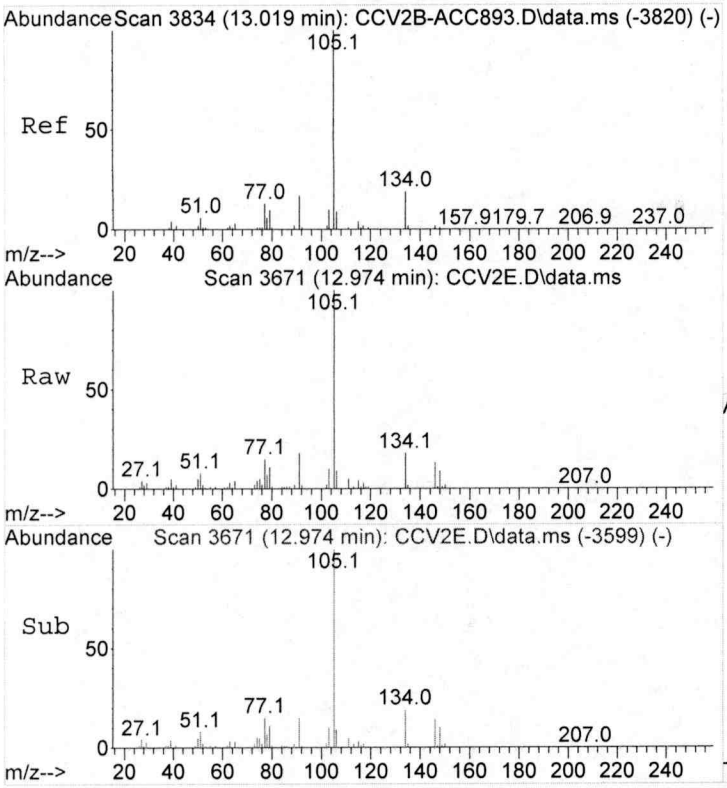


#84
1,4-Dichlorobenzene
Concen: 2.373 ppbV
RT: 12.957 min Scan# 3665
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:146 Resp: 198264

Ion	Ratio	Lower	Upper
146	100		
148	63.3	35.4	95.4
111	36.8	7.0	67.0

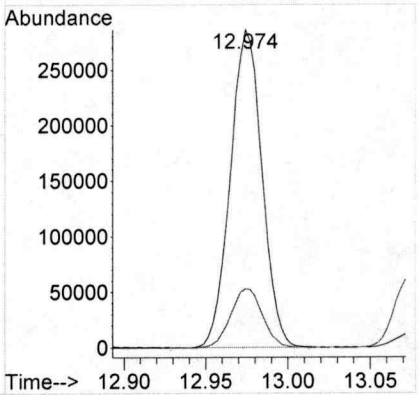


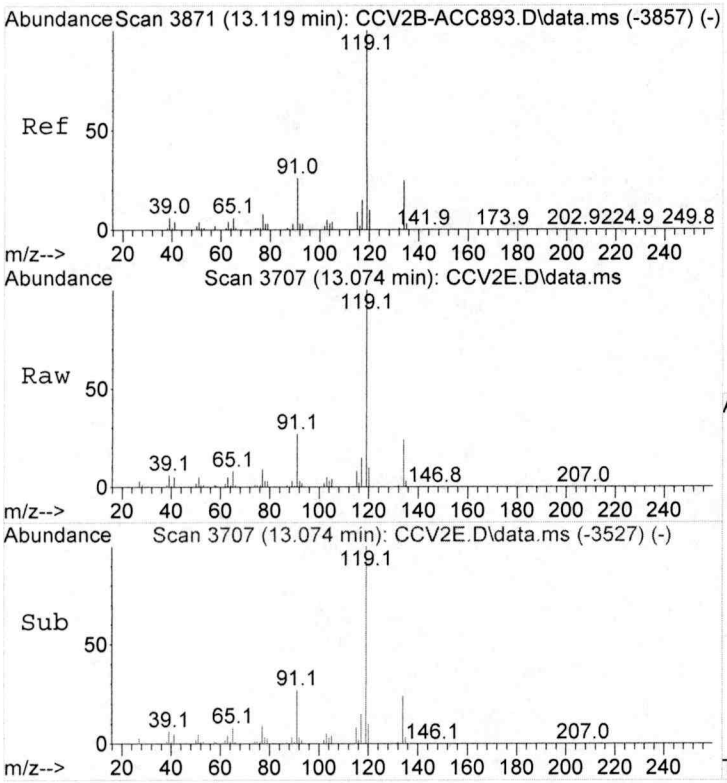


#85
sec-Butylbenzene
Concen: 2.425 ppbV
RT: 12.974 min Scan# 3671
Delta R.T. -0.000 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:105 Resp: 381038

Ion	Ratio	Lower	Upper
105	100		
134	18.8	0.0	39.4

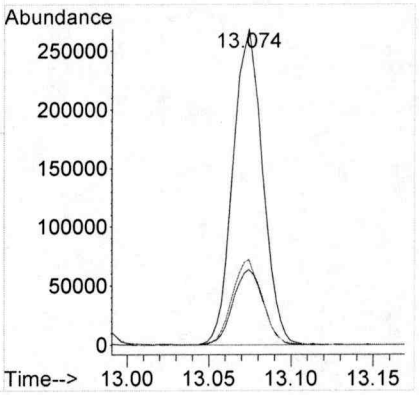


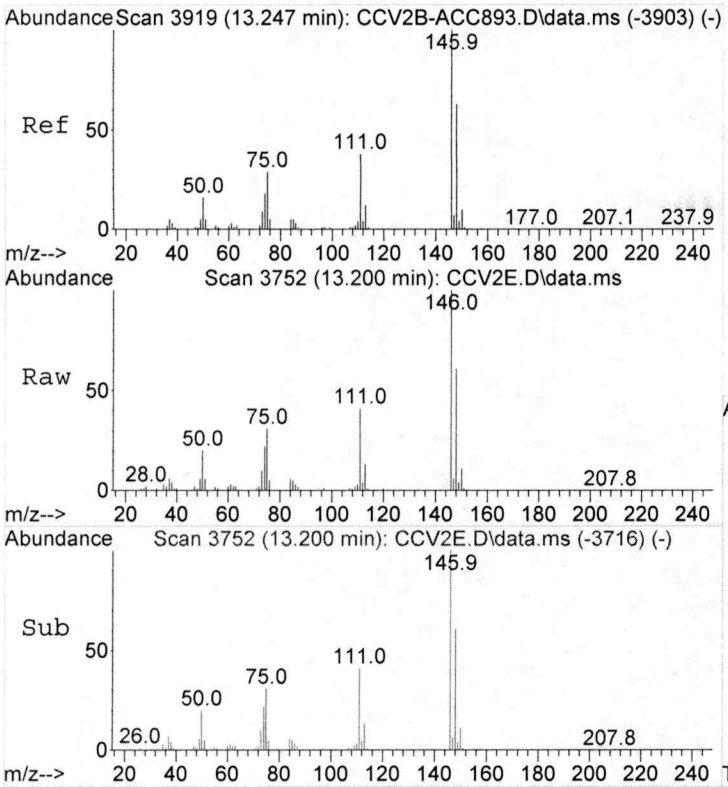


#86
p-Isopropyltoluene
Concen: 2.543 ppbV
RT: 13.074 min Scan# 3707
Delta R.T. 0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:119 Resp: 338733

Ion	Ratio	Lower	Upper
119	100		
134	24.1	19.7	29.5
91	26.6	21.4	32.0

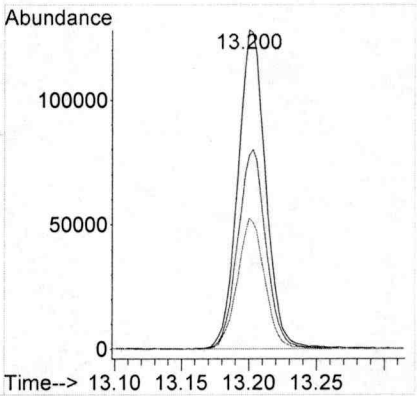


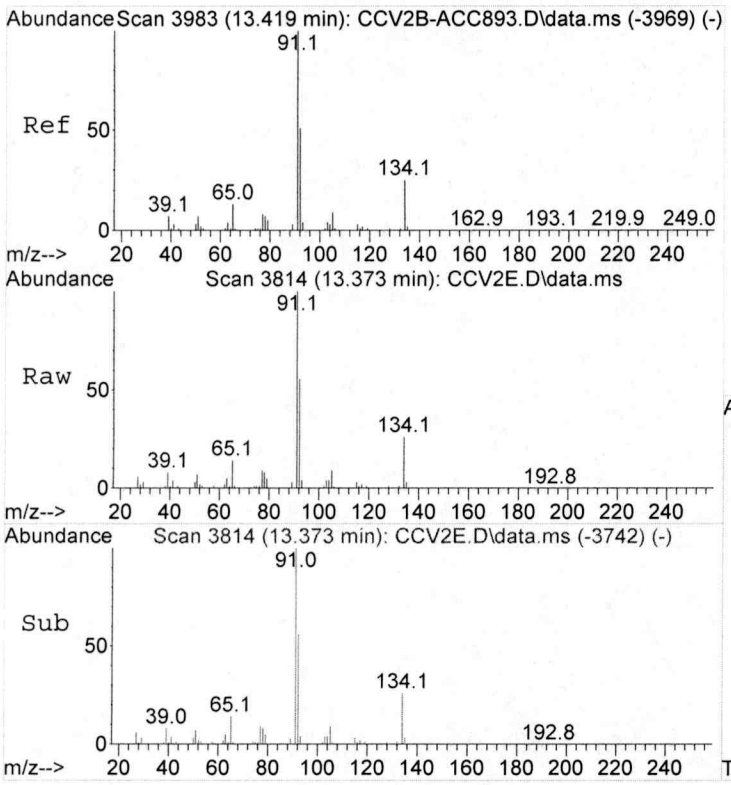


#87
1,2-Dichlorobenzene
Concen: 2.305 ppbV
RT: 13.200 min Scan# 3752
Delta R.T. 0.000 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:146 Resp: 182406

Ion	Ratio	Lower	Upper
146	100		
148	63.8	33.9	93.9
111	40.9	10.1	70.1

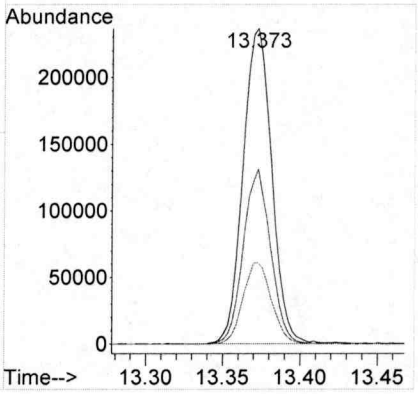


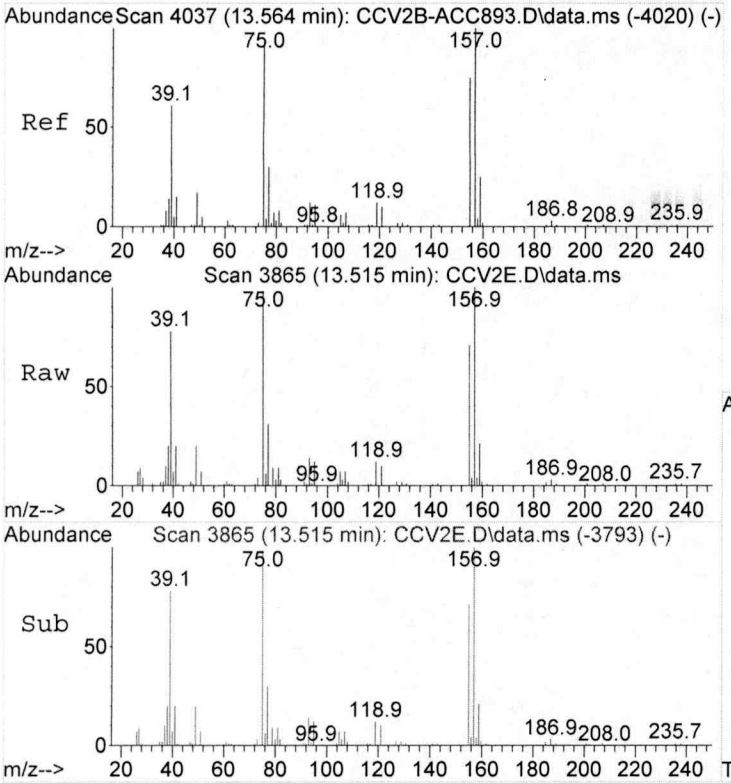


#88
n-Butylbenzene
Concen: 2.680 ppbV
RT: 13.373 min Scan# 3814
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 91 Resp: 305581

Ion	Ratio	Lower	Upper
91	100		
92	53.0	33.7	73.7
134	25.7	5.2	45.2

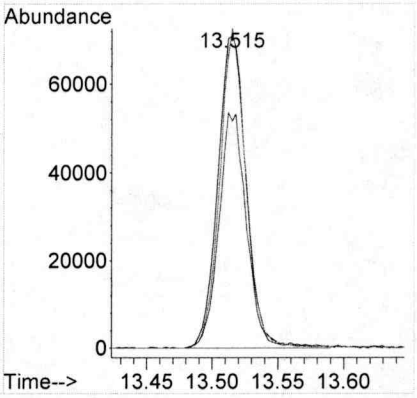


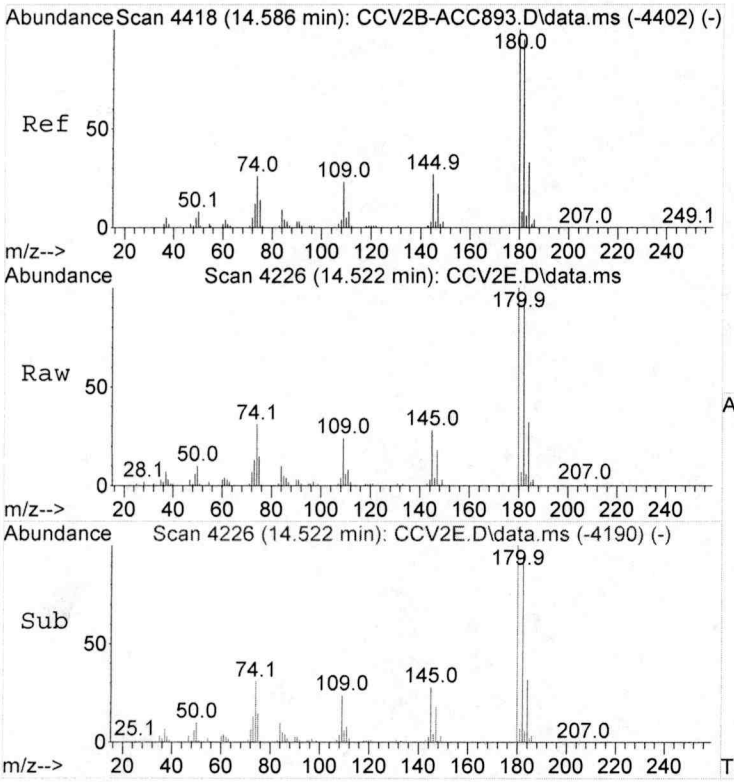


#89
1,2 Dibromo-3-chloropropane
Concen: 2.298 ppbV
RT: 13.515 min Scan# 3865
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion: 75 Resp: 107061

Ion	Ratio	Lower	Upper
75	100		
155	73.0	53.8	93.8
157	93.9	77.6	117.6

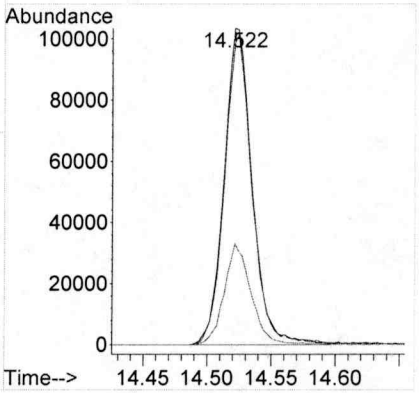


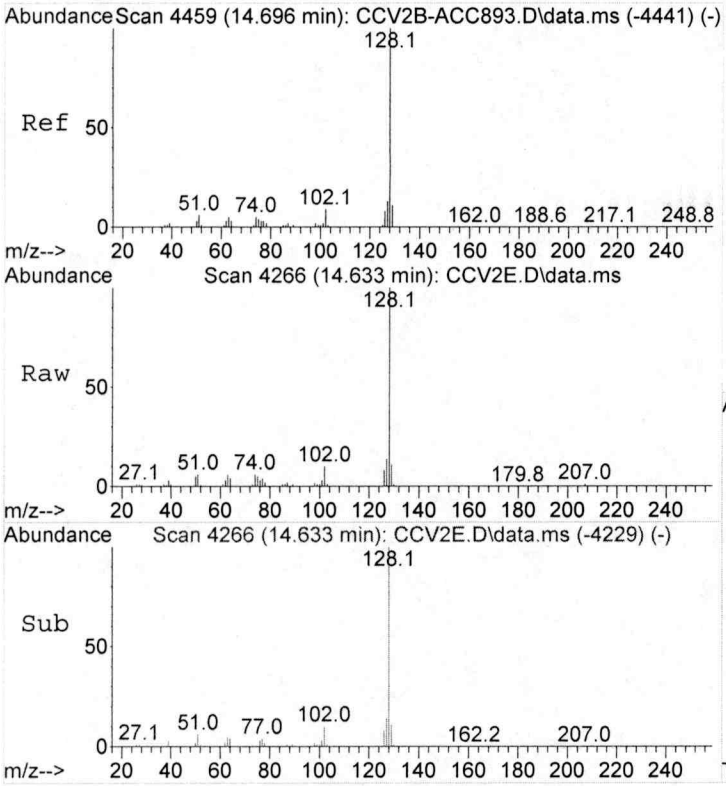


#90
1,2,4-Trichlorobenzene
Concen: 2.760 ppbV
RT: 14.522 min Scan# 4226
Delta R.T. 0.000 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:180 Resp: 157942

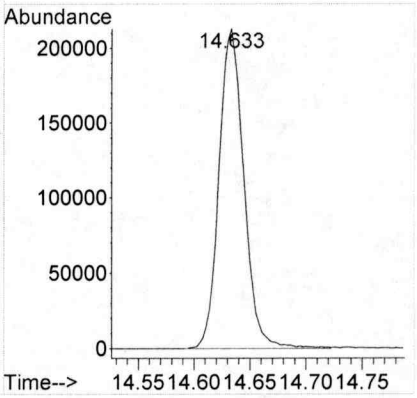
Ion	Ratio	Lower	Upper
180	100		
182	95.2	65.1	125.1
184	30.4	0.3	60.3

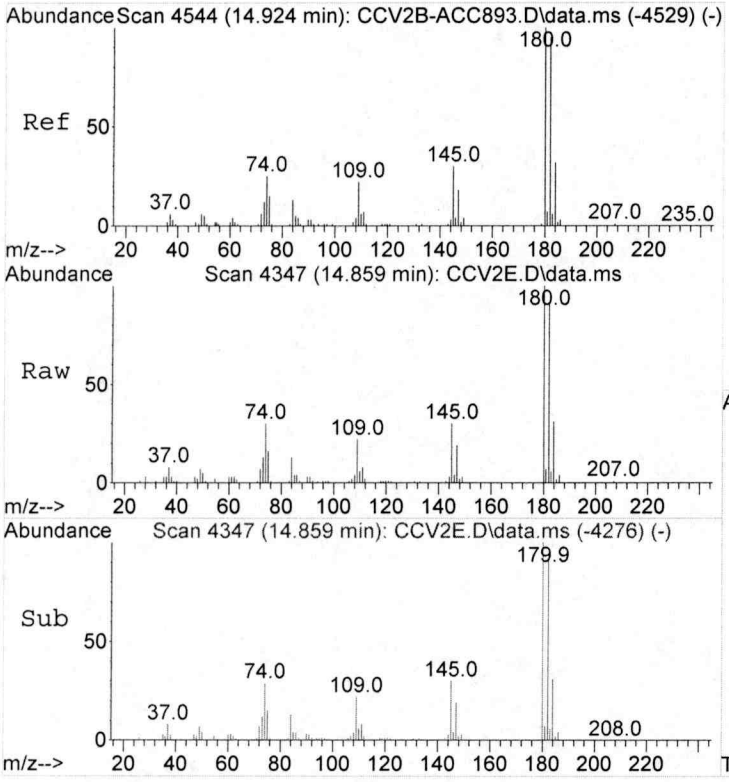




#91
Naphthalene
Concen: 3.006 ppbV
RT: 14.633 min Scan# 4266
Delta R.T. 0.002 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:128 Resp: 326777

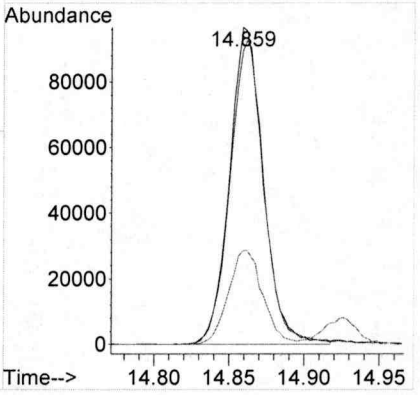


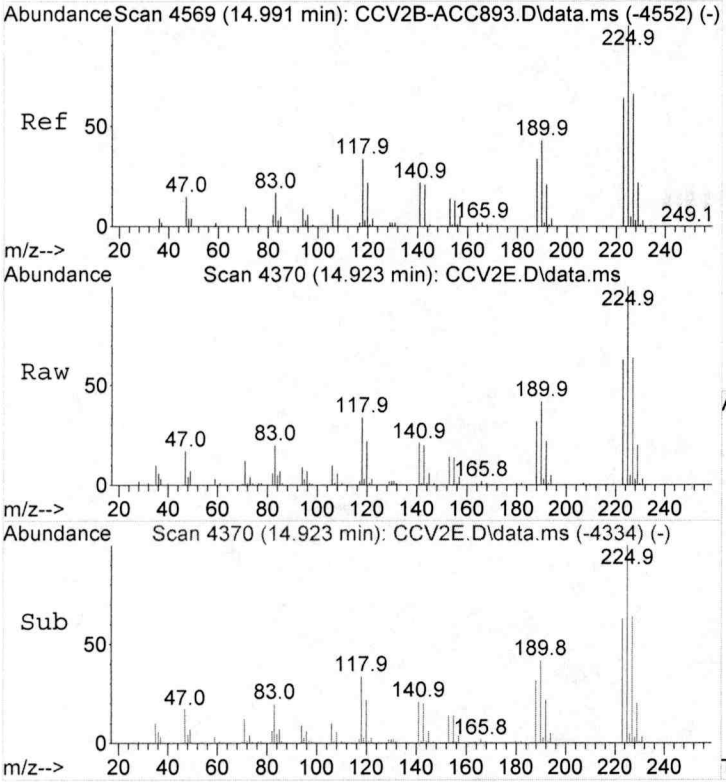


#92
1,2,3-Trichlorobenzene
Concen: 2.848 ppbV
RT: 14.859 min Scan# 4347
Delta R.T. -0.003 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:180 Resp: 151588

Ion	Ratio	Lower	Upper
180	100		
182	96.2	78.5	118.5
145	30.3	9.4	49.4

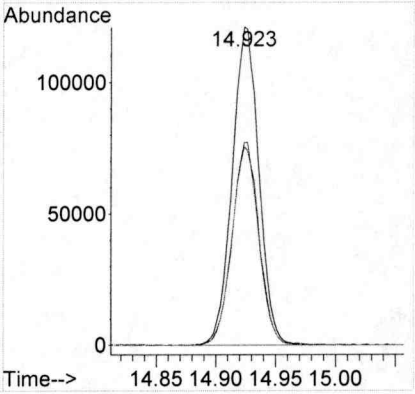




#93
Hexachlorobutadiene
Concen: 2.628 ppbV
RT: 14.923 min Scan# 4370
Delta R.T. -0.001 min
Lab File: CCV2E.D
Acq: 19 Nov 2013 5:53 pm

Tgt Ion:225 Resp: 186704

Ion	Ratio	Lower	Upper
225	100		
227	64.1	33.4	93.4
223	62.7	31.0	91.0



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : BLANK3-50cc.D
Acq On : 19 Nov 2013 6:25 pm
Operator : slc
Misc :
ALS Vial : 9 Sample Multiplier: 5

Quant Time: Jan 30 09:53:49 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : EK31912-BLK1 Inst : GCMS#12

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.366	130	119775	50.00	ppbV	0.00
41) Difluorobenzene	8.612	114	447941	50.00	ppbV	0.00
63) Chlorobenzene-d5	11.128	82	225811	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.879	65	247407	56.30	ppbV	0.00
Spiked Amount 50.000			Recovery	=	112.60%	
55) Toluene-d8	10.062	98	414389	49.68	ppbV	0.00
Spiked Amount 50.000			Recovery	=	99.36%	
72) 4-Bromofluorobenzene	12.001	95	289828	53.06	ppbV	0.00
Spiked Amount 50.000			Recovery	=	106.12%	

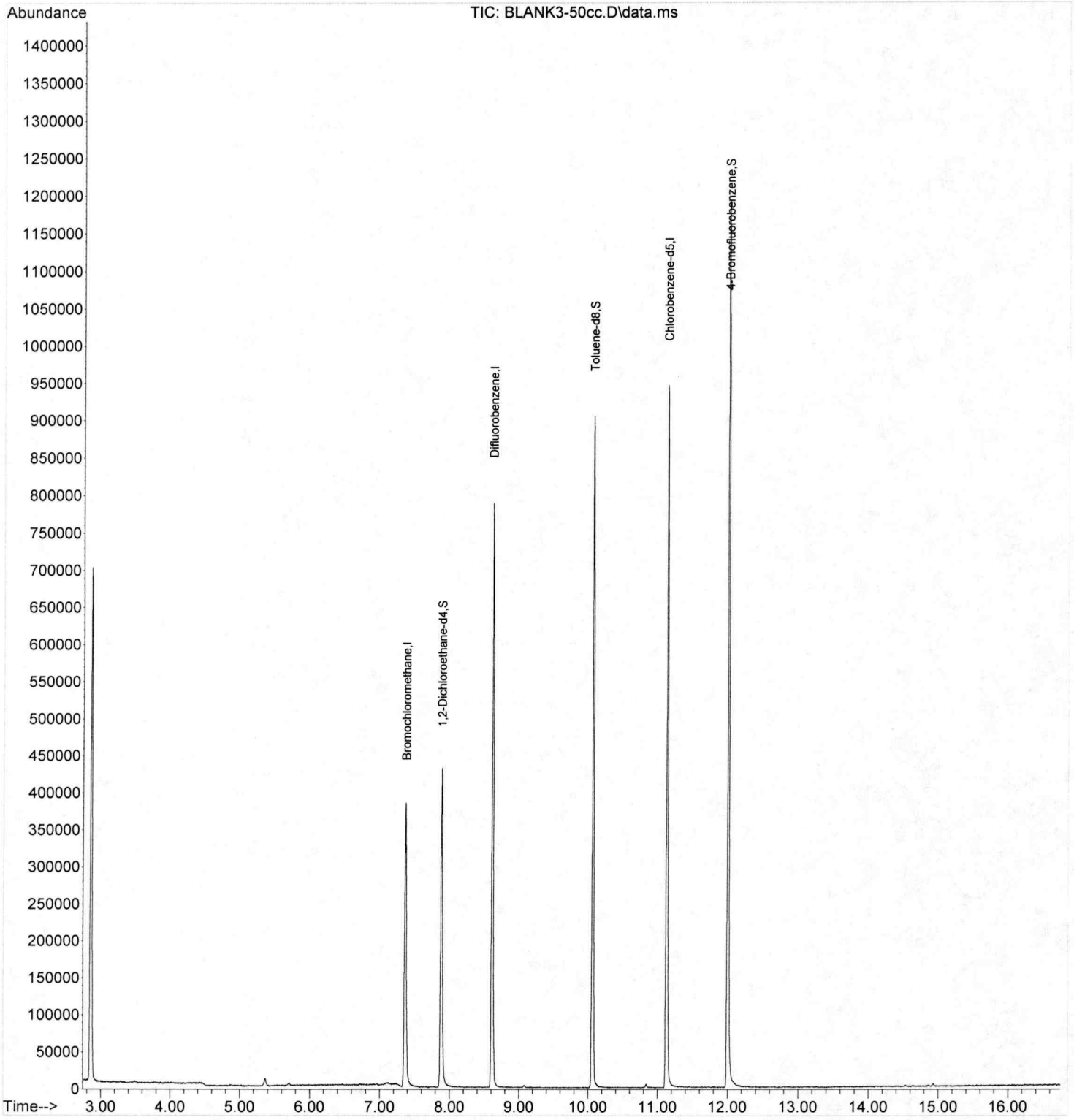
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : BLANK3-50cc.D
Acq On : 19 Nov 2013 6:25 pm
Operator : slc
Misc :
ALS Vial : 9 Sample Multiplier: 5

Quant Time: Jan 30 09:53:49 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : EK31912-BLK1 Inst : GCMS#12



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : LCS.D
Acq On : 19 Nov 2013 7:30 pm
Operator : slc
Misc :
ALS Vial : 11 Sample Multiplier: 5

Quant Time: Nov 20 14:22:05 2013
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : EK31912-BS1 Inst : GCMS#12

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.369	130	103254	50.00	ppbV	0.00
41) Difluorobenzene	8.615	114	415843	50.00	ppbV	0.00
63) Chlorobenzene-d5	11.128	82	217699	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.885	65	224921	59.37	ppbV	0.00
Spiked Amount 50.000			Recovery	=	118.74%	
55) Toluene-d8	10.063	98	391905	50.62	ppbV	0.00
Spiked Amount 50.000			Recovery	=	101.24%	
72) 4-Bromofluorobenzene	11.998	95	285187	54.16	ppbV	0.00
Spiked Amount 50.000			Recovery	=	108.32%	
Target Compounds						Qvalue
2) 1,1,1-trifluoroethane	2.896	65	10701	14.276	ppbV	97
3) 1,1,1,2-Tetrafluoroethane	2.932	83	26135	12.781	ppbV	95
4) 1,1,-Difluoroethane	3.002	51	18045	10.367	ppbV	96
5) Propene	3.074	41	7581	8.710	ppbV	99
6) Dichlorodifluoromethane	3.141	85	68737	11.637	ppbV	99
7) Chloromethane	3.303	50	13881	9.358	ppbV	98
8) Dichlorotetrafluoroethane	3.409	85	68773	10.130	ppbV	98
9) Vinyl Chloride	3.534	62	14337	8.059	ppbV	96
10) 1,3-Butadiene	3.691	54	9493	7.817	ppbV	89
11) Bromomethane	3.997	94	18599	9.180	ppbV	93
12) Chloroethane	4.201	64	8376	9.084	ppbV	92
13) Ethanol	4.363	45	5432m	6.556	ppbV	
14) Acetone	4.853	43	35950	8.136	ppbV	93
15) Trichlorofluoromethane	5.018	101	91472	9.922	ppbV #	97
16) Isopropanol	5.090	45	27962m	6.690	ppbV	
17) 1,1-Dichloroethene	5.612	61	35049	8.550	ppbV	99
18) tert-Butanol	5.645	59	44350	7.466	ppbV	89
19) Methylene chloride	5.704	49	26310	9.653	ppbV	94
20) 1,1,2-Trichlorotrifluo...	5.955	101	52501	8.796	ppbV	98
21) Carbon Disulfide	5.988	76	49169	8.086	ppbV	100
22) trans-1,2-Dichloroethene	6.488	61	30605	8.432	ppbV	99
23) 1,1-Dichloroethane	6.649	63	40593	8.868	ppbV	99
24) Methyl-tert-Butyl Ether	6.702	73	54084	8.032	ppbV #	88
25) Vinyl Acetate	6.747	86	2897	6.953	ppbV #	62
26) 2-Butanone	6.945	43	37660	7.906	ppbV	98
27) cis-1,2-Dichloroethene	7.249	61	26033	7.999	ppbV	99
28) Ethyl Acetate	7.397	70	4408	8.848	ppbV	90
29) Diisopropyl Ether	7.397	45	54384	9.421	ppbV	80
30) Hexane	7.405	57	22411	9.268	ppbV	92
31) Chloroform	7.452	83	55610	9.968	ppbV	99
32) 2,2 Dichloropropane	7.489	77	50092	9.679	ppbV	96
33) Tetrahydrofuran	7.754	71	6682	9.094	ppbV #	76
34) Ethyl-tert-Butyl Ether	7.762	59	51212	9.870	ppbV	99
36) 1,2-Dichloroethane	7.952	62	42059	9.903	ppbV	99
37) 1,1,1-Trichloroethane	8.130	97	63690	10.059	ppbV	100
38) 1,1-Dichloropropene	8.325	110	7346	7.742	ppbV	92
39) Benzene	8.420	78	49163	9.113	ppbV	96
40) Carbon Tetrachloride	8.512	117	75258	10.384	ppbV	99
42) Cyclohexane	8.599	84	22970	8.482	ppbV	85

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : LCS.D
Acq On : 19 Nov 2013 7:30 pm
Operator : slc
Misc :
ALS Vial : 11 Sample Multiplier: 5

Quant Time: Nov 20 14:22:05 2013
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : EK31912-BS1 Inst : GCMS#12

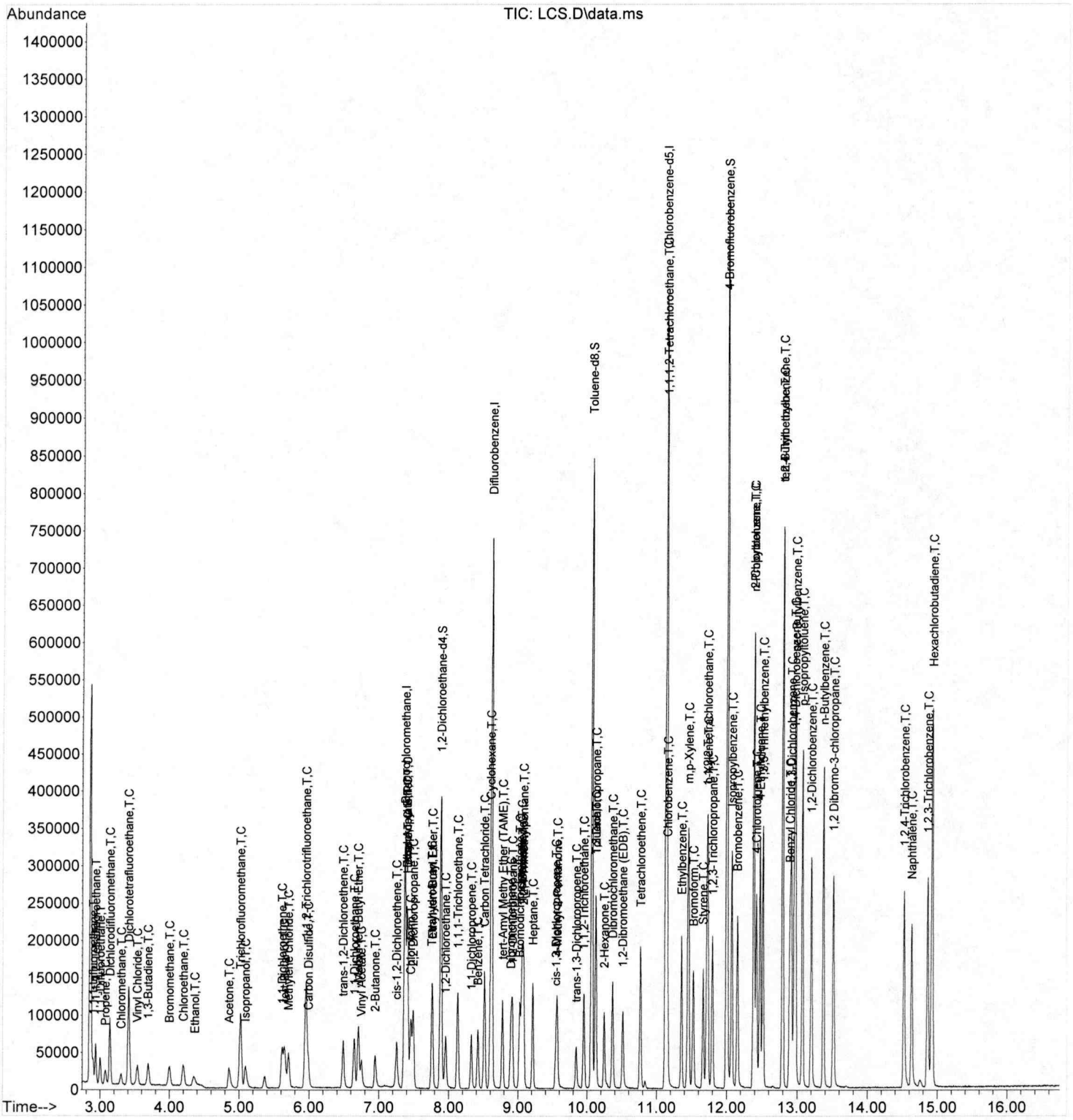
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) tert-Amyl Methy Ether ...	8.777	73	45714	8.201	ppbV		87
44) Dibromomethane	8.897	93	27753	8.656	ppbV		97
45) 1,2-Dichloropropane	8.919	63	17591	8.210	ppbV		91
46) Bromodichloromethane	9.022	83	58415	8.666	ppbV		97
47) 1,4-Dioxane	9.059	88	11251	7.200	ppbV		91
48) Trichloroethene	9.053	95	30362	8.530	ppbV		92
49) 2,2,4 Trimethylpentane	9.078	57	85595	9.311	ppbV	#	92
50) Heptane	9.215	71	14244	8.219	ppbV		92
51) cis-1,3-Dichloropropene	9.547	75	26973	7.718	ppbV		96
52) 4-Methyl-2-Pentanone	9.566	43	42767	9.048	ppbV		96
53) trans-1,3-Dichloropropene	9.842	75	24015	7.074	ppbV		97
54) 1,1,2-Trichloroethane	9.948	97	26177	8.070	ppbV		94
56) Toluene	10.124	91	77661	7.854	ppbV		99
57) 1,3 Dichloropropane	10.124	76	38760	8.343	ppbV		98
58) 2-Hexanone	10.244	43	42757	8.612	ppbV		93
59) Dibromochloromethane	10.367	129	60266	8.095	ppbV		98
60) 1,2-Dibromoethane (EDB)	10.512	107	41351	7.876	ppbV		96
61) Tetrachloroethene	10.768	166	42296	7.287	ppbV		99
62) 1,1,1,2-Tetrachloroethane	11.136	131	50393	7.960	ppbV		99
64) Chlorobenzene	11.153	112	69395	7.378	ppbV		94
65) Ethylbenzene	11.357	91	98823	8.290	ppbV		100
66) m,p-Xylene	11.451	91	193813	17.573	ppbV		98
67) Bromoform	11.524	173	68863	7.681	ppbV		99
68) Styrene	11.663	104	53717	7.814	ppbV		96
69) 1,1,2,2-Tetrachloroethane	11.719	83	73370	7.822	ppbV		98
70) o-Xylene	11.727	91	104998	8.714	ppbV		100
71) 1,2,3-Trichloropropane	11.797	75	63538	8.045	ppbV		99
73) Isopropylbenzene	12.070	105	149110	8.180	ppbV		100
74) Bromobenzene	12.151	156	52475	7.641	ppbV		98
75) 2-Chlorotoluene	12.380	126	39634	8.047	ppbV	#	93
76) n-Propylbenzene	12.383	91	319342	8.553	ppbV		98
77) 4-Chlorotoluene	12.419	126	37329	7.998	ppbV	#	86
78) 4-Ethyltoluene	12.469	105	162983	8.608	ppbV		99
79) 1,3,5-Trimethylbenzene	12.514	105	143715	8.452	ppbV		100
80) tert-Butylbenzene	12.790	119	162834	8.421	ppbV		96
81) 1,2,4-Trimethylbenzene	12.790	105	149250	8.400	ppbV		100
82) Benzyl Chloride	12.896	91	117452	7.875	ppbV		99
83) 1,3-Dichlorobenzene	12.913	146	107401	7.969	ppbV		99
84) 1,4-Dichlorobenzene	12.960	146	106745	7.908	ppbV		98
85) sec-Butylbenzene	12.974	105	217544	8.572	ppbV		98
86) p-Isopropyltoluene	13.072	119	192774	8.961	ppbV		98
87) 1,2-Dichlorobenzene	13.200	146	102025	7.983	ppbV		99
88) n-Butylbenzene	13.370	91	170708	9.269	ppbV		98
89) 1,2 Dibromo-3-chloropr...	13.515	75	64084	8.516	ppbV		92
90) 1,2,4-Trichlorobenzene	14.524	180	76414	8.267	ppbV		99
91) Naphthalene	14.633	128	151947	8.653	ppbV		100
92) 1,2,3-Trichlorobenzene	14.862	180	82006	9.537	ppbV		98
93) Hexachlorobutadiene	14.923	225	113031	9.848	ppbV		100

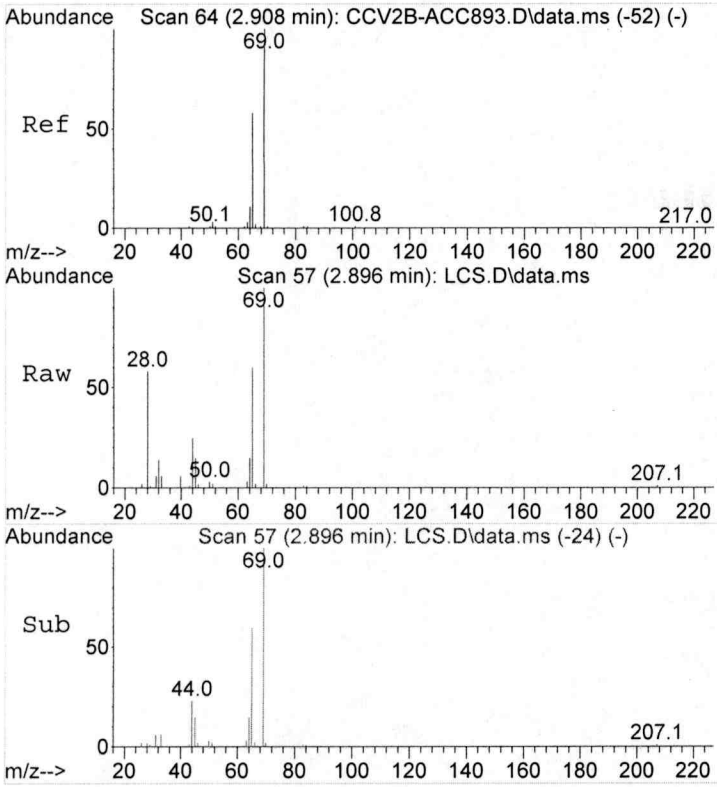
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : LCS.D
Acq On : 19 Nov 2013 7:30 pm
Operator : slc
Misc :
ALS Vial : 11 Sample Multiplier: 5

Quant Time: Nov 20 14:22:05 2013
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : EK31912-BS1 Inst : GCMS#12

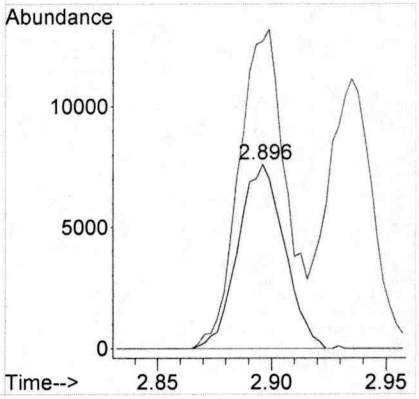


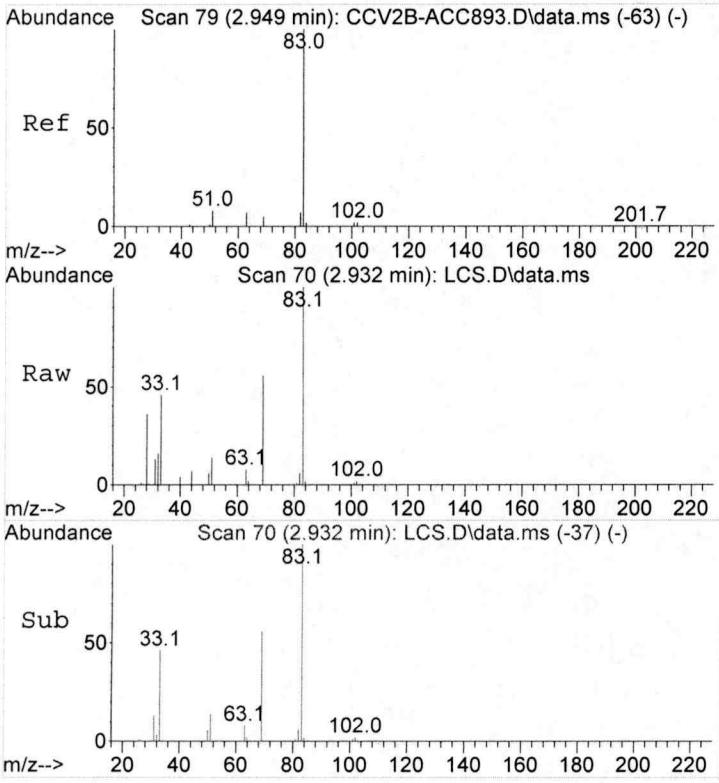


#2
1,1,1-trifluoroethane
Concen: 14.276 ppbV
RT: 2.896 min Scan# 57
Delta R.T. -0.007 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 65 Resp: 10701

Ion	Ratio	Lower	Upper
65	100		
69	174.1	158.4	198.4

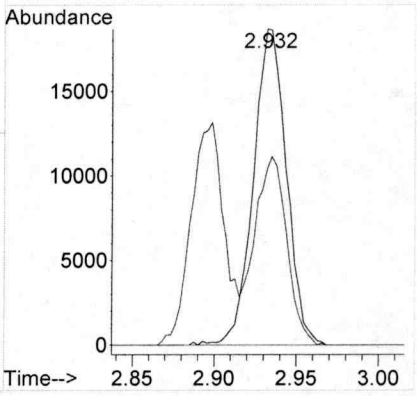


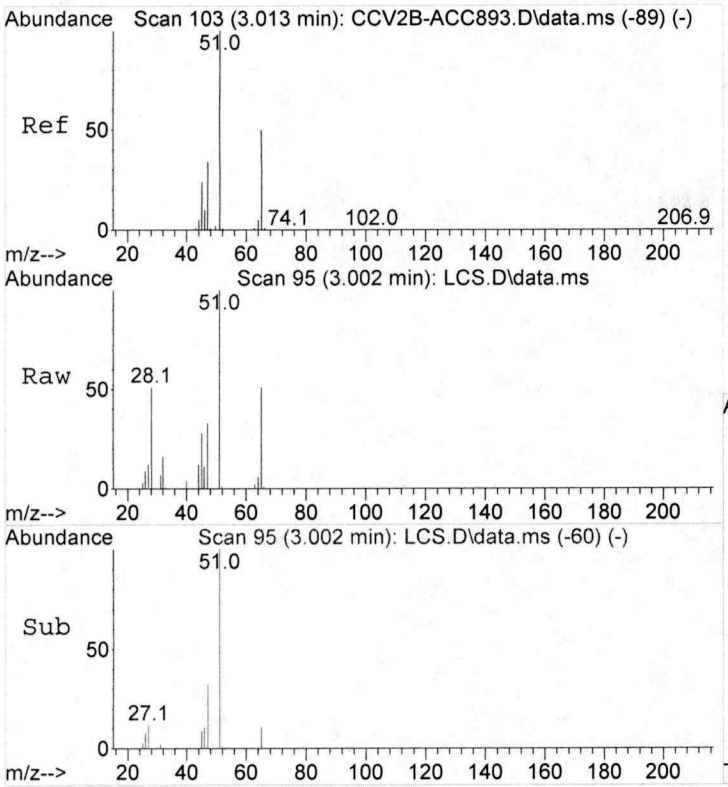


#3
1,1,1,2-Tetrafluoroethane
Concen: 12.781 ppbV
RT: 2.932 min Scan# 70
Delta R.T. -0.009 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 83 Resp: 26135

Ion	Ratio	Lower	Upper
83	100		
69	58.4	42.6	82.6

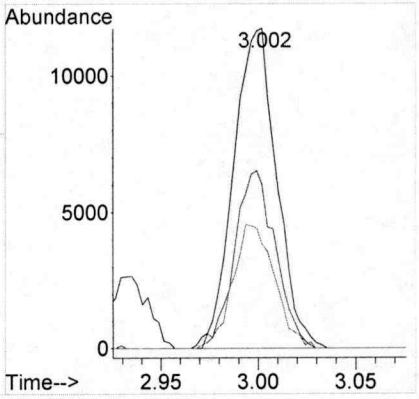


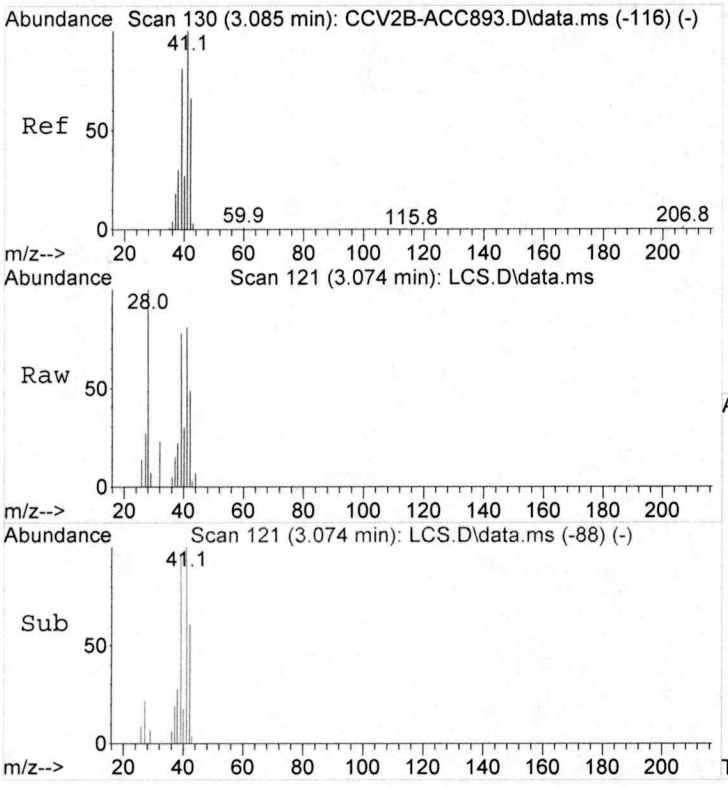


#4
1,1,-Difluoroethane
Concen: 10.367 ppbV
RT: 3.002 min Scan# 95
Delta R.T. -0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 51 Resp: 18045

Ion	Ratio	Lower	Upper
51	100		
65	52.9	25.3	85.3
47	37.6	4.4	64.4

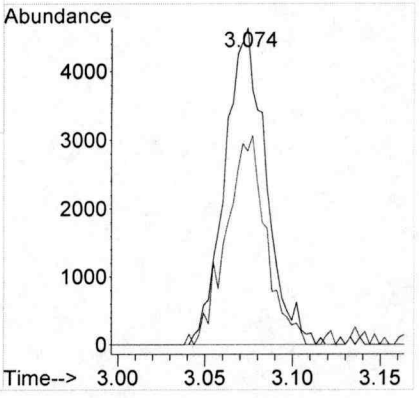


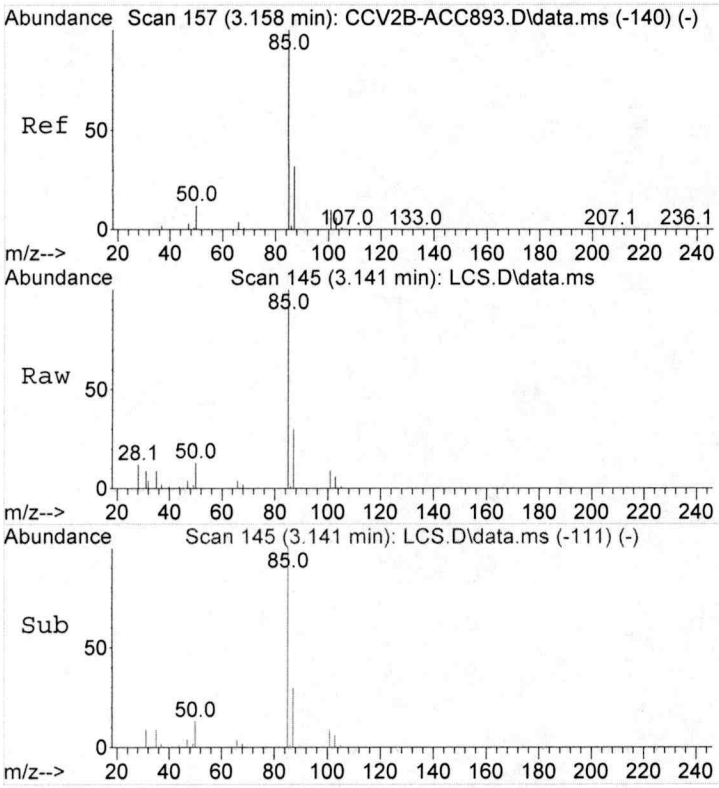


#5
Propene
Concen: 8.710 ppbV
RT: 3.074 min Scan# 121
Delta R.T. -0.009 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 41 Resp: 7581

Ion	Ratio	Lower	Upper
41	100		
42	64.1	35.1	95.1

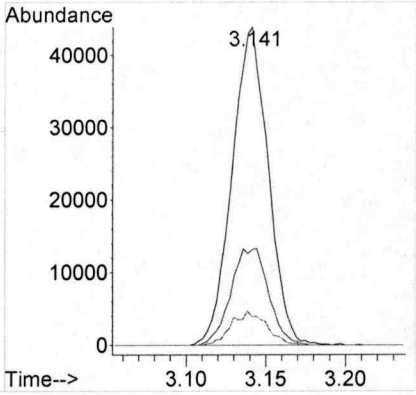


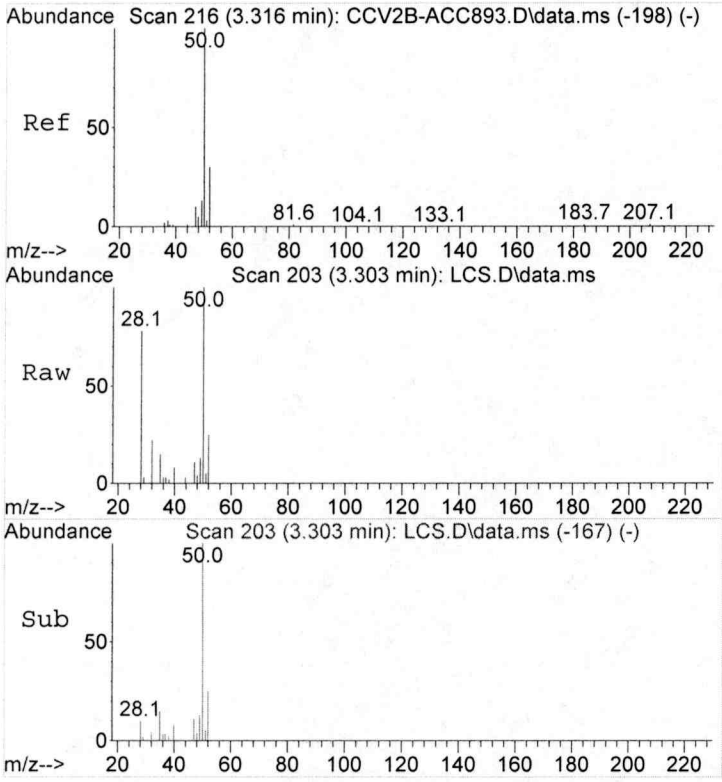


#6
Dichlorodifluoromethane
Concen: 11.637 ppbV
RT: 3.141 min Scan# 145
Delta R.T. -0.006 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 85 Resp: 68737

Ion	Ratio	Lower	Upper
85	100		
87	31.7	2.3	62.3
101	10.4	0.0	39.7

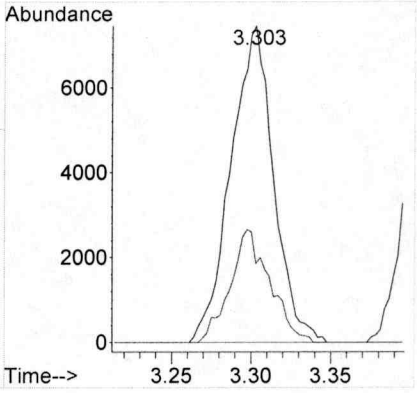


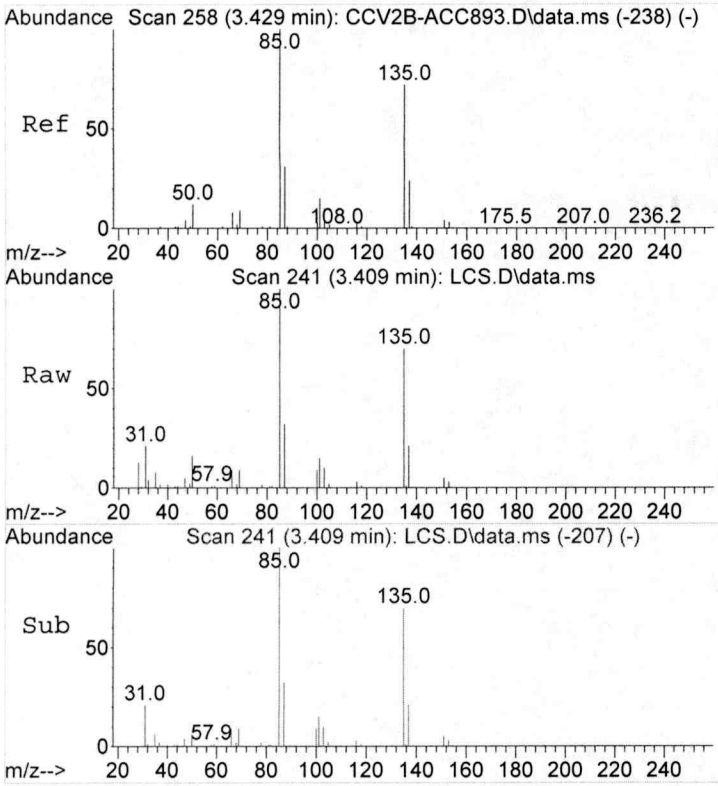


#7
Chloromethane
Concen: 9.358 ppbV
RT: 3.303 min Scan# 203
Delta R.T. -0.000 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 50 Resp: 13881

Ion	Ratio	Lower	Upper
50	100		
52	33.0	4.1	64.1

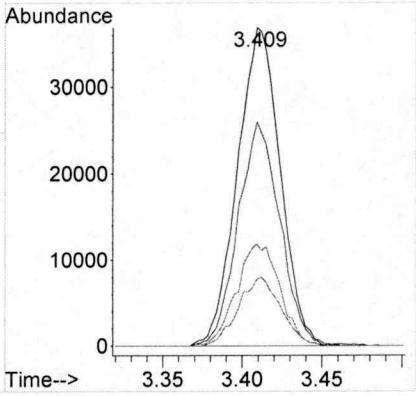


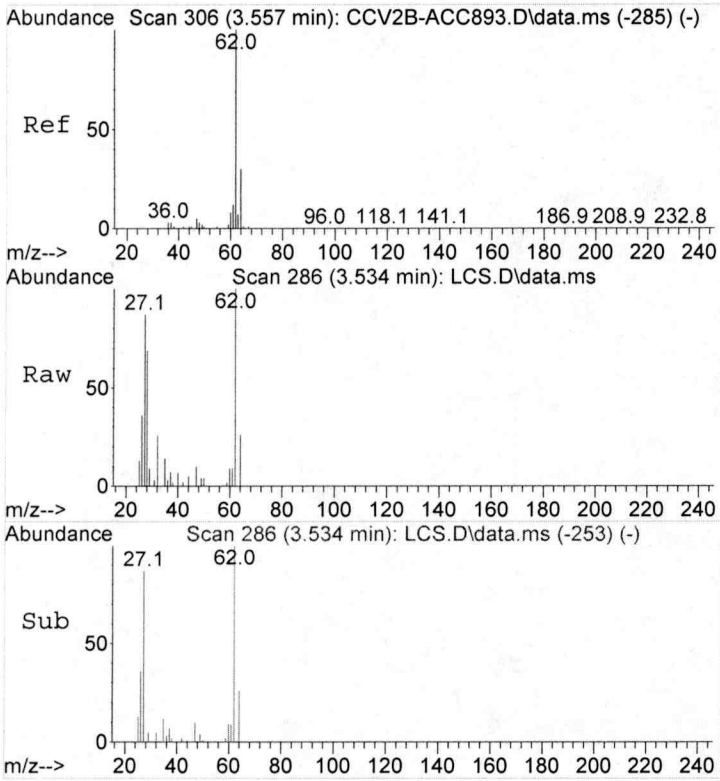


#8
Dichlorotetrafluoroethane
Concen: 10.130 ppbV
RT: 3.409 min Scan# 241
Delta R.T. -0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 85 Resp: 68773

Ion	Ratio	Lower	Upper
85	100		
135	68.8	40.5	100.5
87	32.7	2.7	62.7
137	21.3	0.0	52.8

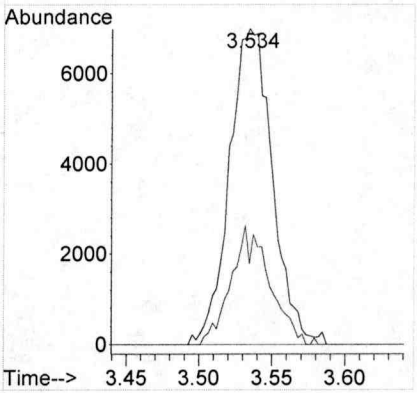


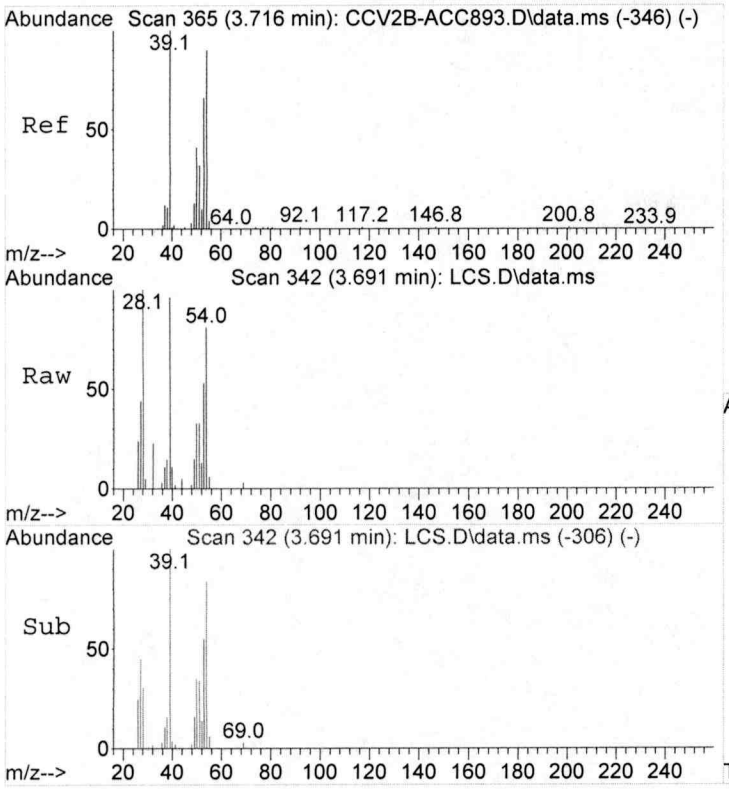


#9
Vinyl Chloride
Concen: 8.059 ppbV
RT: 3.534 min Scan# 286
Delta R.T. -0.007 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 62 Resp: 14337

Ion	Ratio	Lower	Upper
62	100		
64	33.4	1.4	61.4

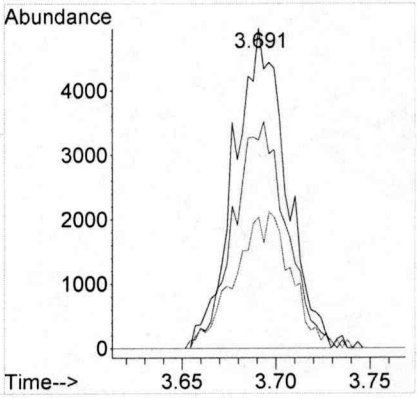


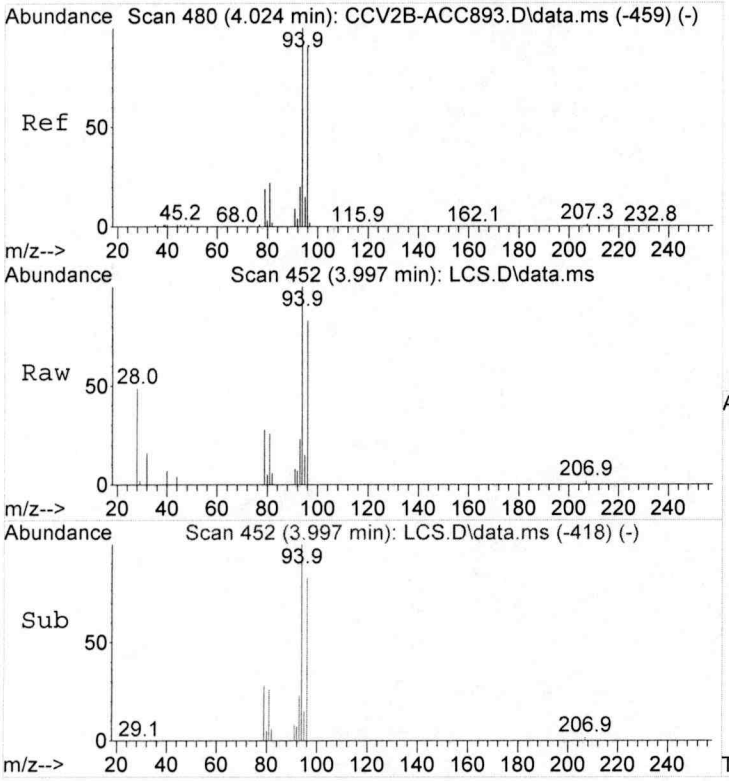


#10
1,3-Butadiene
Concen: 7.817 ppbV
RT: 3.691 min Scan# 342
Delta R.T. 0.002 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 54 Resp: 9493

Ion	Ratio	Lower	Upper
54	100		
53	72.2	41.1	101.1
50	25.1	13.0	73.0

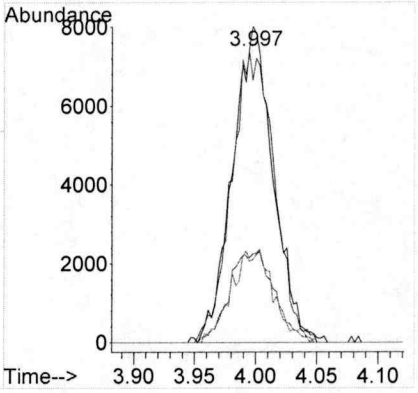


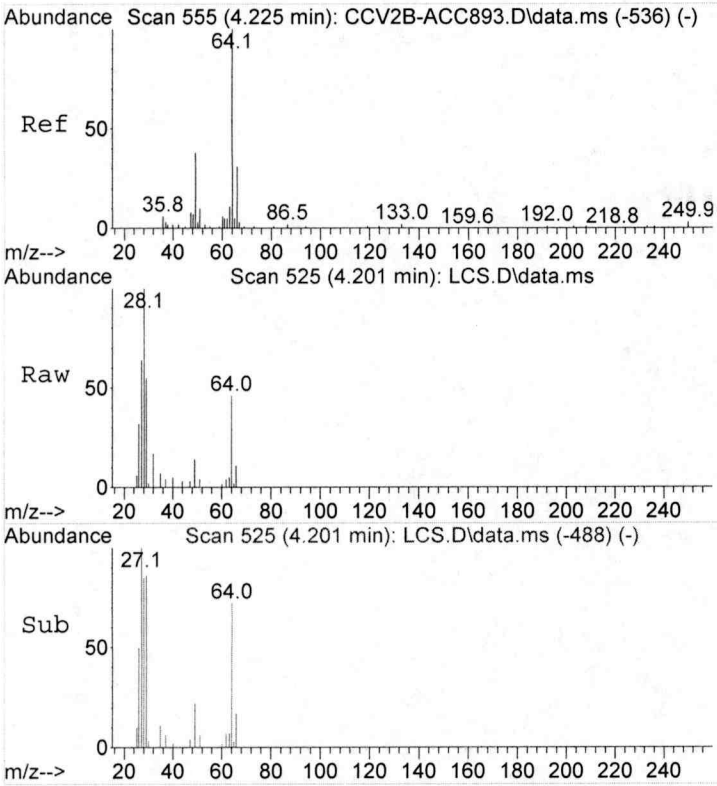


#11
Bromomethane
Concen: 9.180 ppbV
RT: 3.997 min Scan# 452
Delta R.T. -0.006 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 94 Resp: 18599

Ion	Ratio	Lower	Upper
94	100		
96	97.2	63.6	123.6
79	30.8	0.0	54.2
81	31.5	0.0	54.2

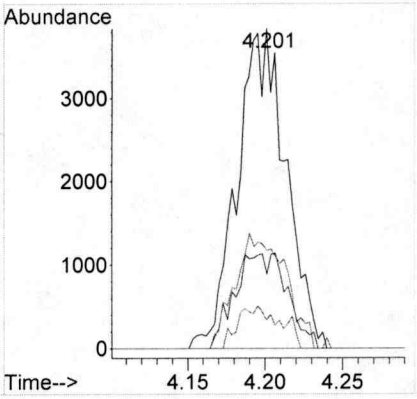


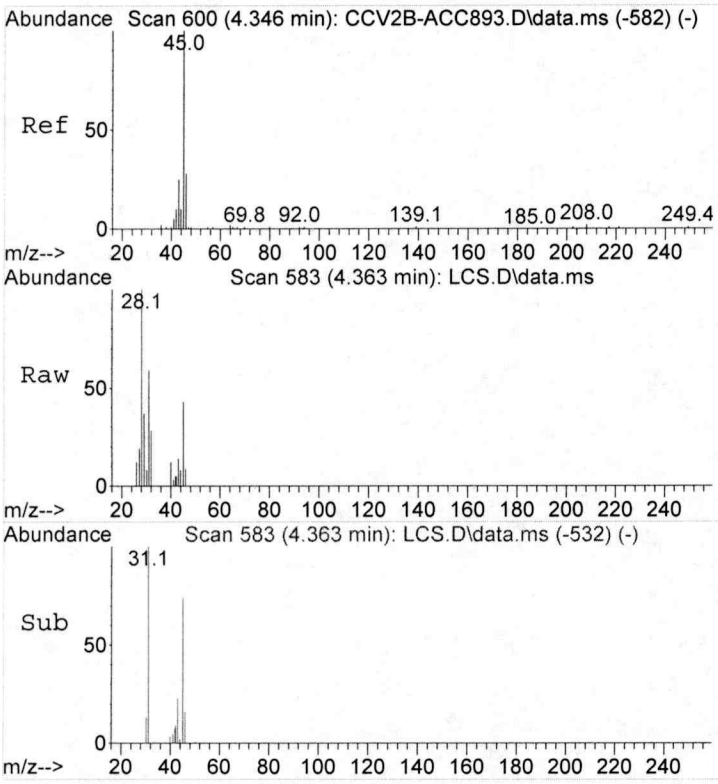


#12
Chloroethane
Concen: 9.084 ppbV
RT: 4.201 min Scan# 525
Delta R.T. 0.002 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 64 Resp: 8376

Ion	Ratio	Lower	Upper
64	100		
66	19.4	0.0	45.7
49	36.9	2.7	62.7
51	11.5	0.0	30.0

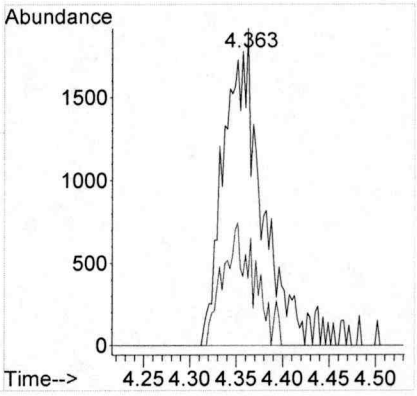


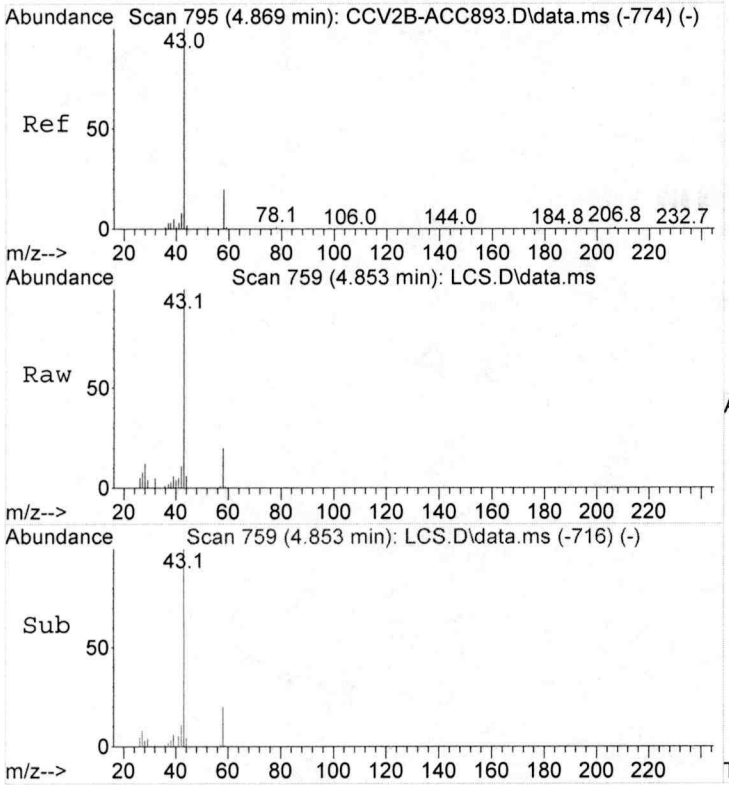


#13
Ethanol
Concen: 6.556 ppbV m
RT: 4.363 min Scan# 583
Delta R.T. 0.044 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 45 Resp: 5432

Ion	Ratio	Lower	Upper
45	100		
46	18.6	0.0	30.0

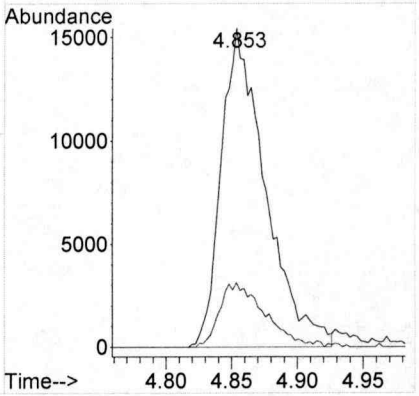


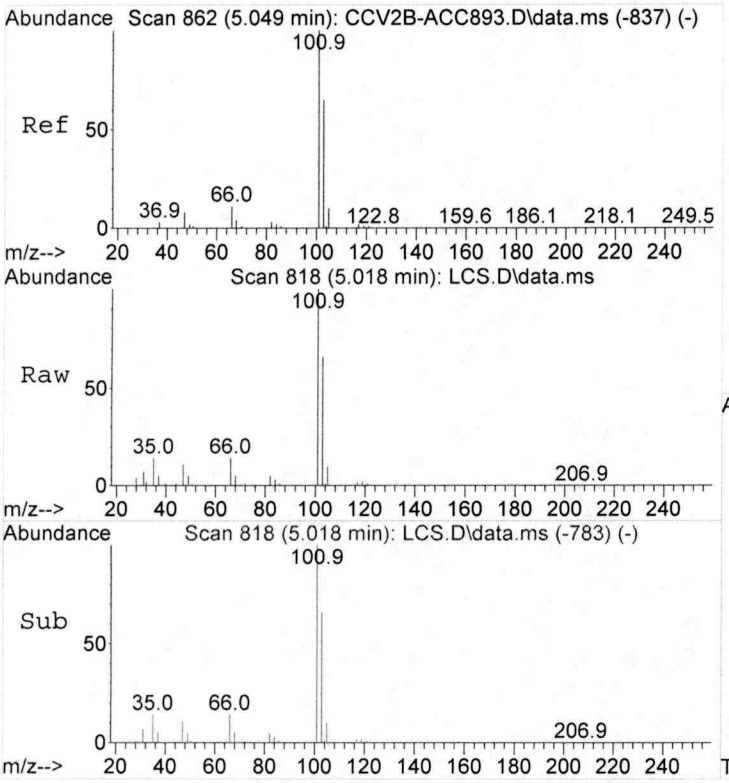


#14
Acetone
Concen: 8.136 ppbV
RT: 4.853 min Scan# 759
Delta R.T. 0.019 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 43 Resp: 35950

Ion	Ratio	Lower	Upper
43	100		
58	20.4	0.0	47.3

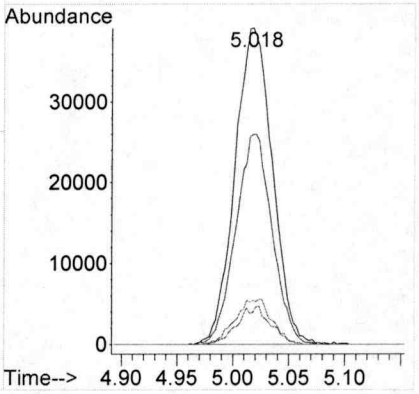


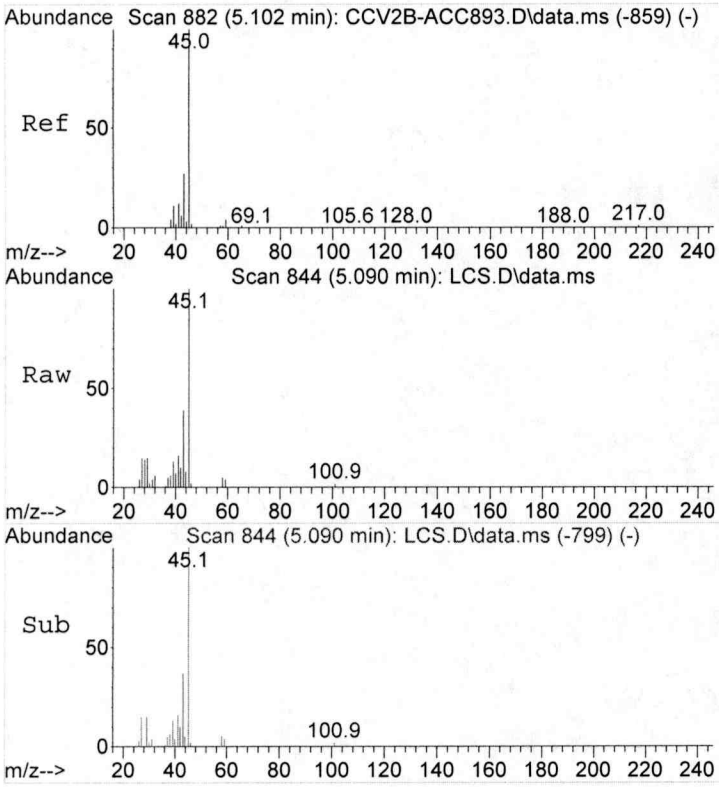


#15
Trichlorofluoromethane
Concen: 9.922 ppbV
RT: 5.018 min Scan# 818
Delta R.T. -0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:101 Resp: 91472

Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.7	77.5
66	13.9	10.6	15.8
105	5.3	8.6	13.0#

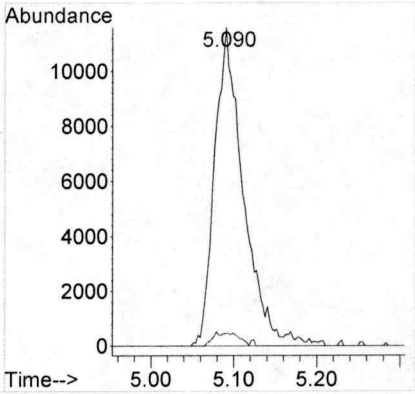


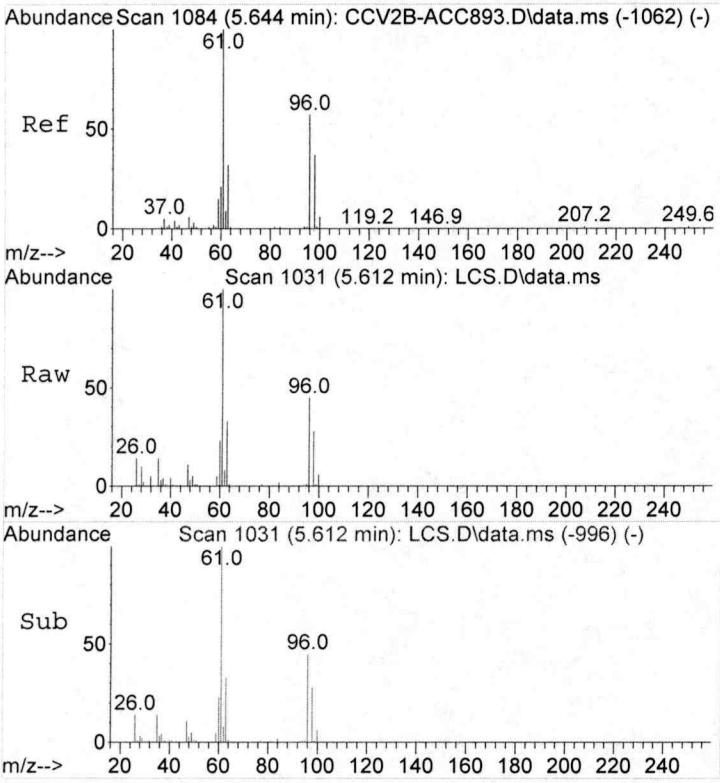


#16
Isopropanol
Concen: 6.690 ppbV m
RT: 5.090 min Scan# 844
Delta R.T. 0.025 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 45 Resp: 27962

Ion	Ratio	Lower	Upper
45	100		
59	0.0	0.0	30.0

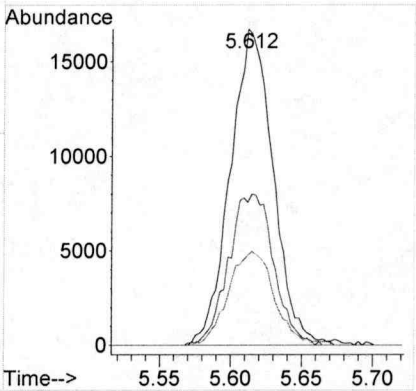


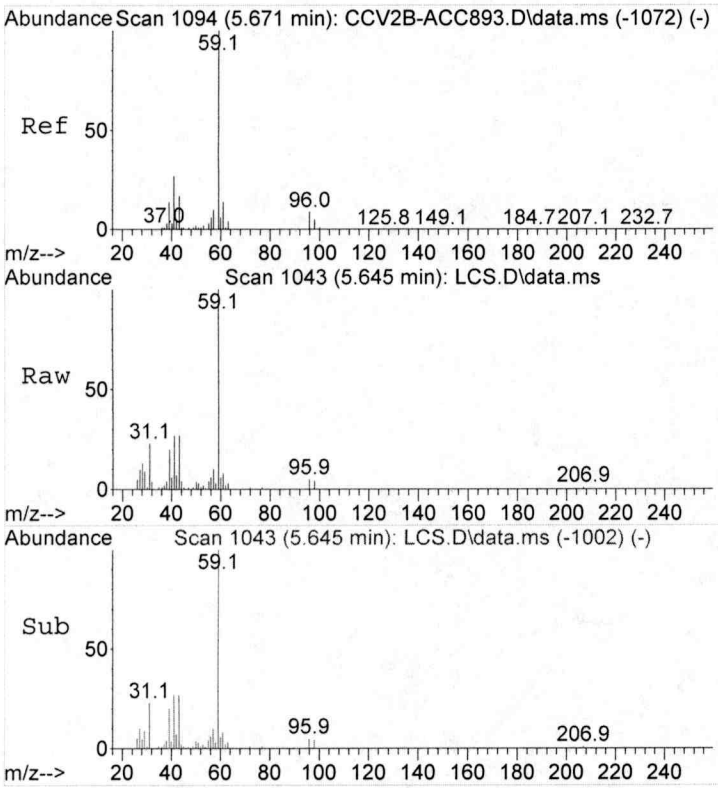


#17
1,1-Dichloroethene
Concen: 8.550 ppbV
RT: 5.612 min Scan# 1031
Delta R.T. -0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 61 Resp: 35049

Ion	Ratio	Lower	Upper
61	100		
96	50.3	40.2	60.2
98	31.6	26.6	39.8

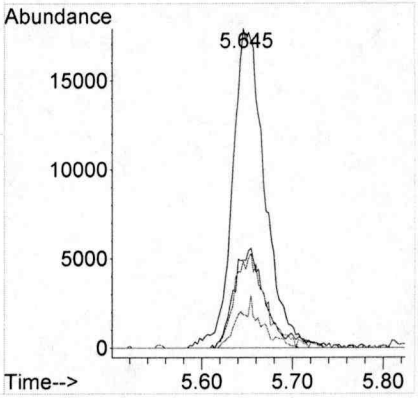


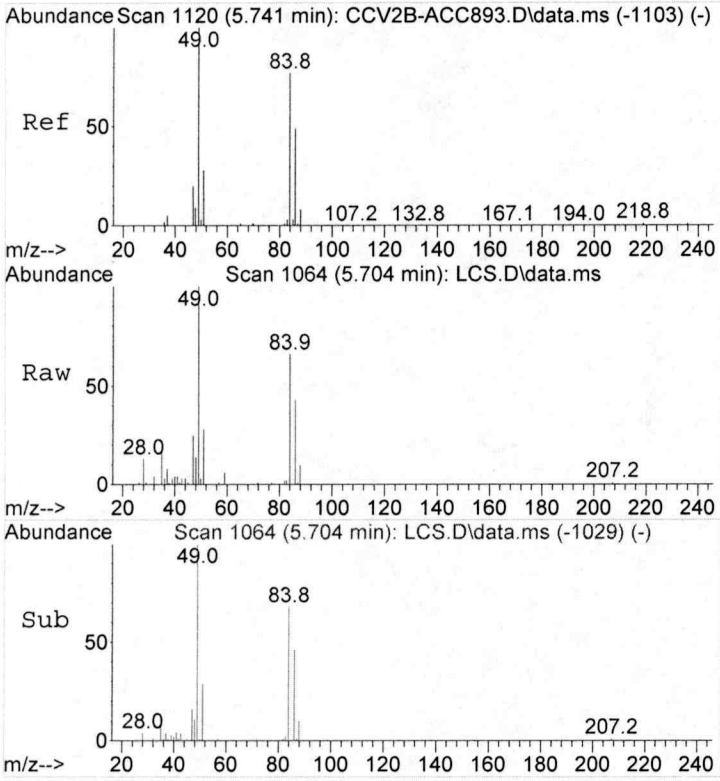


#18
tert-Butanol
Concen: 7.466 ppbV
RT: 5.645 min Scan# 1043
Delta R.T. 0.014 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 59 Resp: 44350

Ion	Ratio	Lower	Upper
59	100		
41	28.7	0.0	57.7
43	27.5	0.0	35.5
57	5.3	0.0	37.6

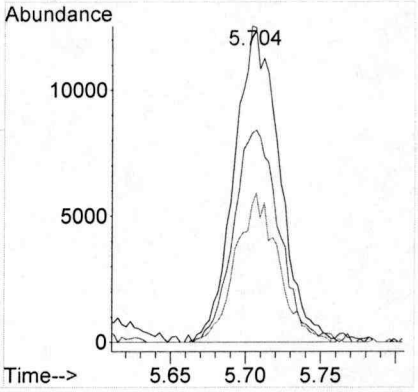


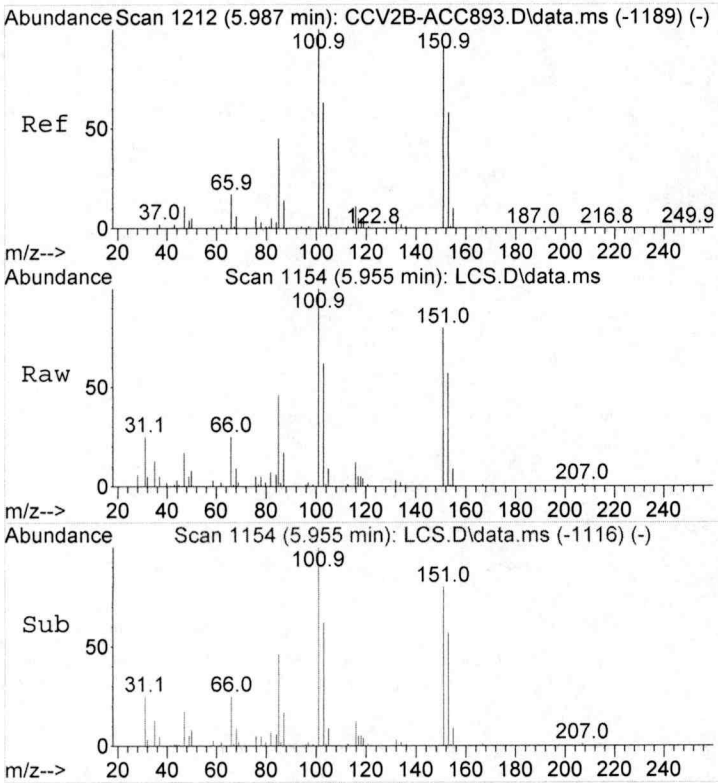


#19
Methylene chloride
Concen: 9.653 ppbV
RT: 5.704 min Scan# 1064
Delta R.T. -0.002 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 49 Resp: 26310

Ion	Ratio	Lower	Upper
49	100		
84	67.0	42.1	102.1
86	44.2	17.3	77.3

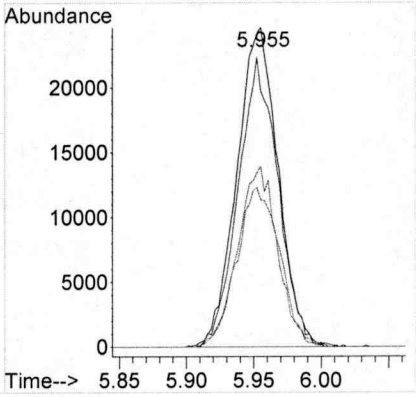


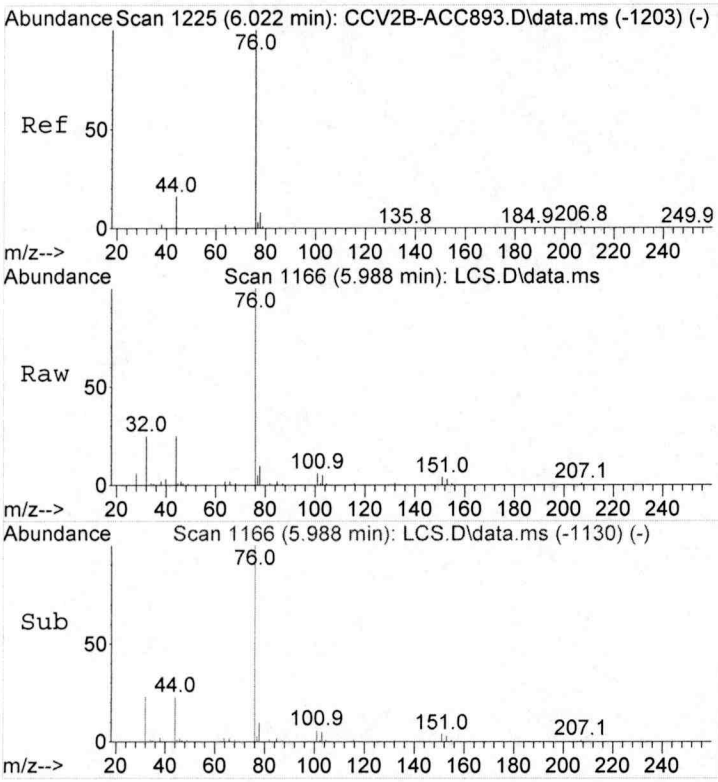


#20
1,1,2-Trichlorotrifluoroethane
Concen: 8.796 ppbV
RT: 5.955 min Scan# 1154
Delta R.T. 0.005 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:101 Resp: 52501

Ion	Ratio	Lower	Upper
101	100		
151	87.2	56.9	116.9
153	55.8	24.7	84.7
85	51.0	18.0	78.0

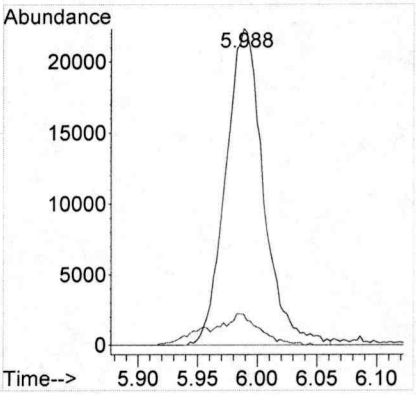


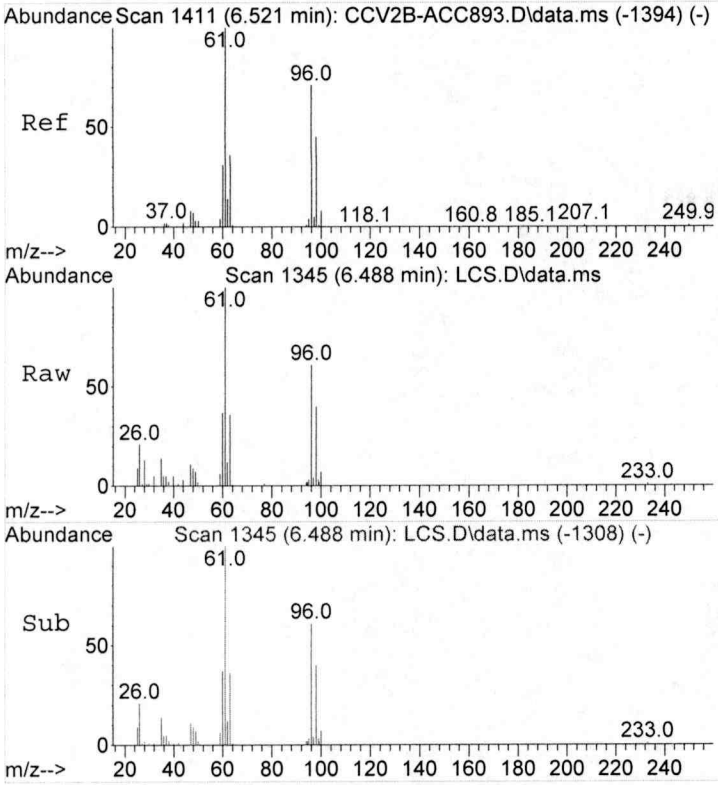


#21
Carbon Disulfide
Concen: 8.086 ppbV
RT: 5.988 min Scan# 1166
Delta R.T. 0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 76 Resp: 49169

Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	39.5

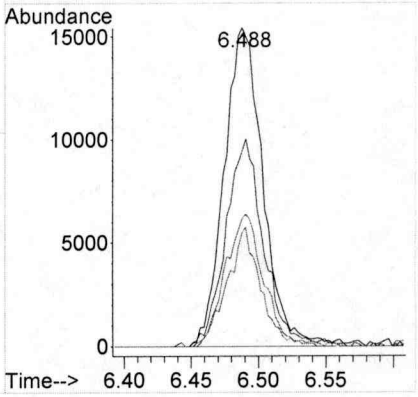


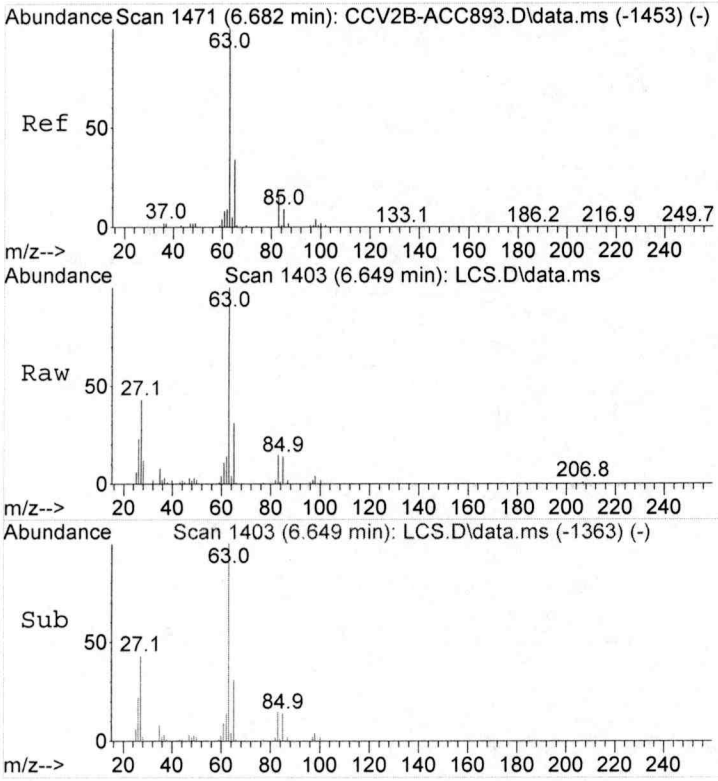


#22
trans-1,2-Dichloroethene
Concen: 8.432 ppbV
RT: 6.488 min Scan# 1345
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 61 Resp: 30605

Ion	Ratio	Lower	Upper
61	100		
96	63.1	34.6	94.6
63	32.3	1.9	61.9
98	41.2	10.6	70.6

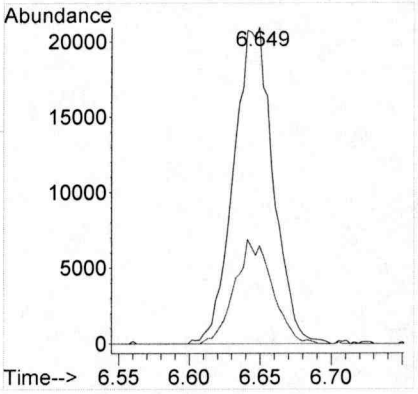


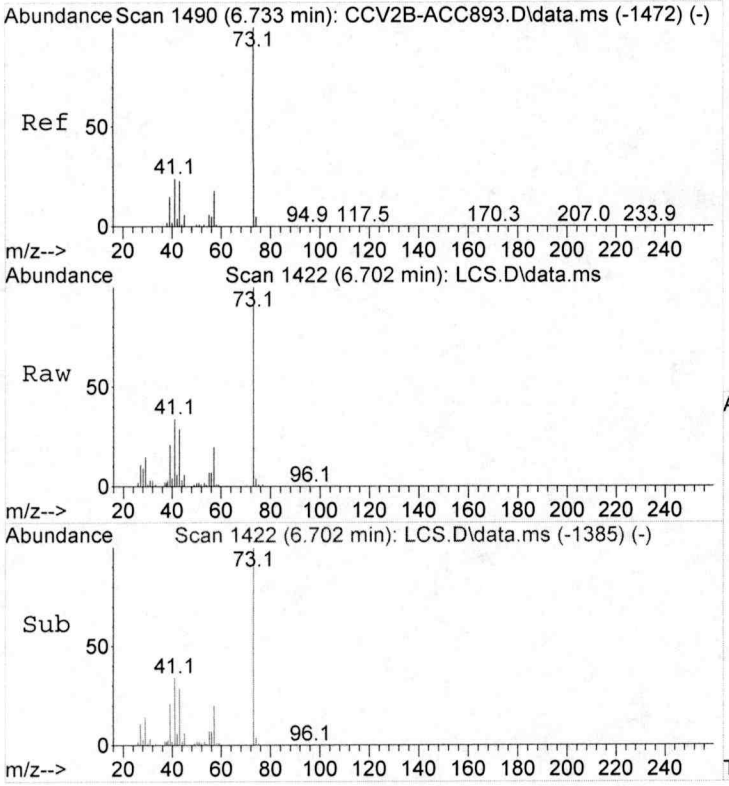


#23
1,1-Dichloroethane
Concen: 8.868 ppbV
RT: 6.649 min Scan# 1403
Delta R.T. 0.010 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 63 Resp: 40593

Ion	Ratio	Lower	Upper
63	100		
65	30.9	1.4	61.4

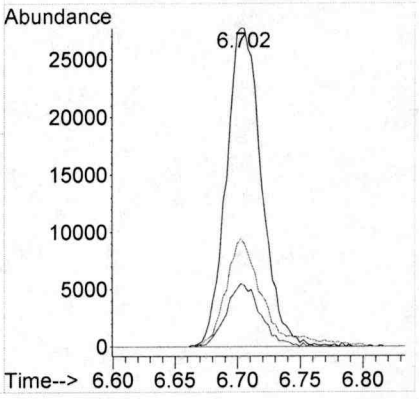


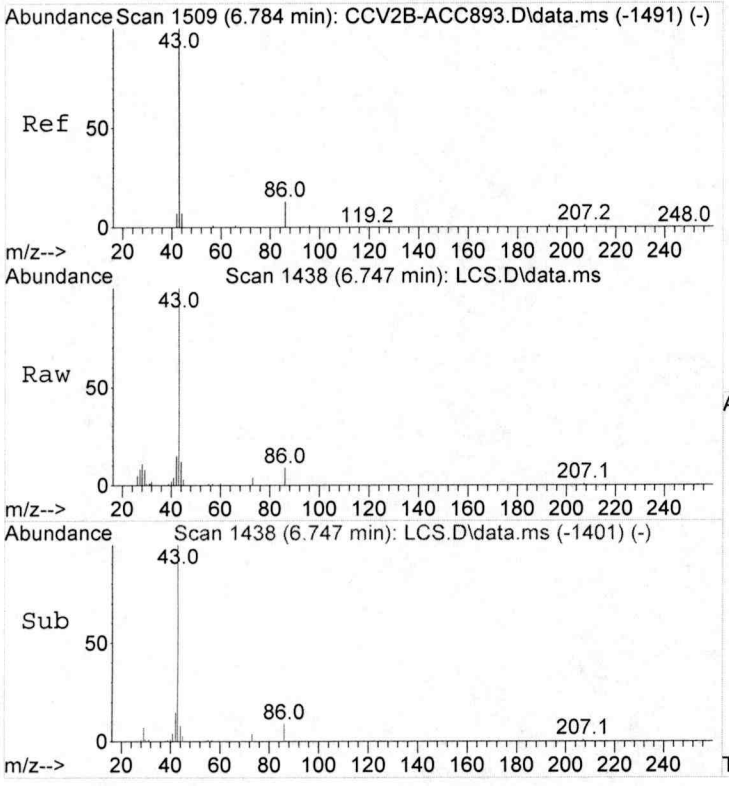


#24
Methyl-tert-Butyl Ether
Concen: 8.032 ppbV
RT: 6.702 min Scan# 1422
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 73 Resp: 54084

Ion	Ratio	Lower	Upper
73	100		
57	19.3	15.1	22.7
41	35.6	20.3	30.5#

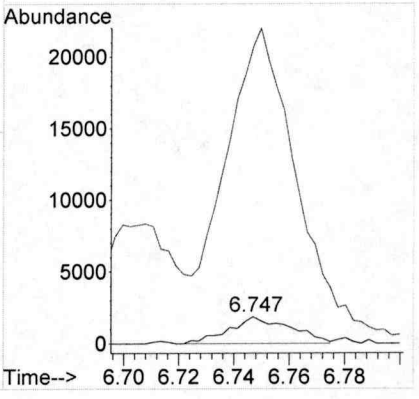


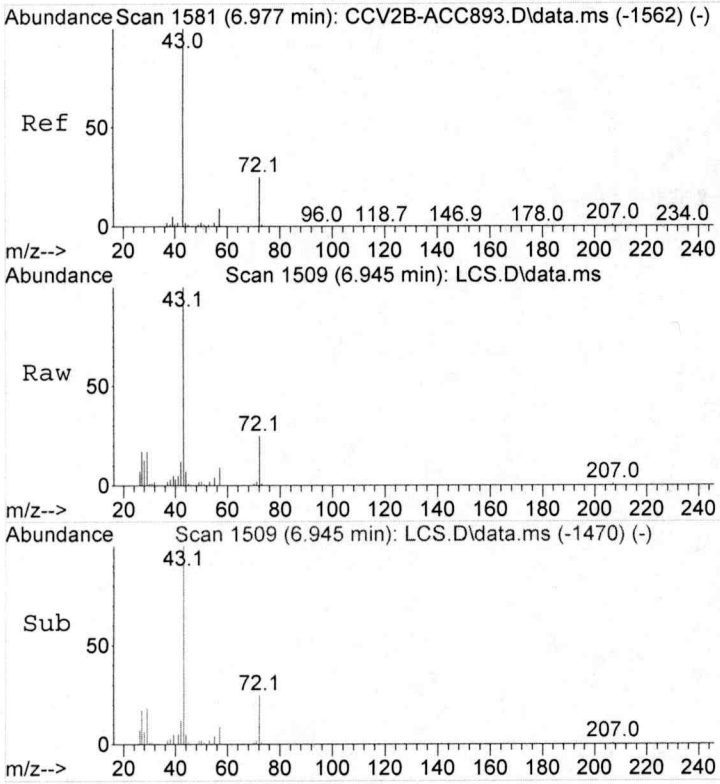


#25
Vinyl Acetate
Concen: 6.953 ppbV
RT: 6.747 min Scan# 1438
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 86 Resp: 2897

Ion	Ratio	Lower	Upper
86	100		
43	1384.3	1163.6	1223.6#

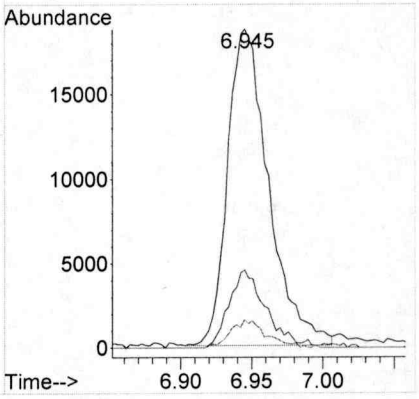


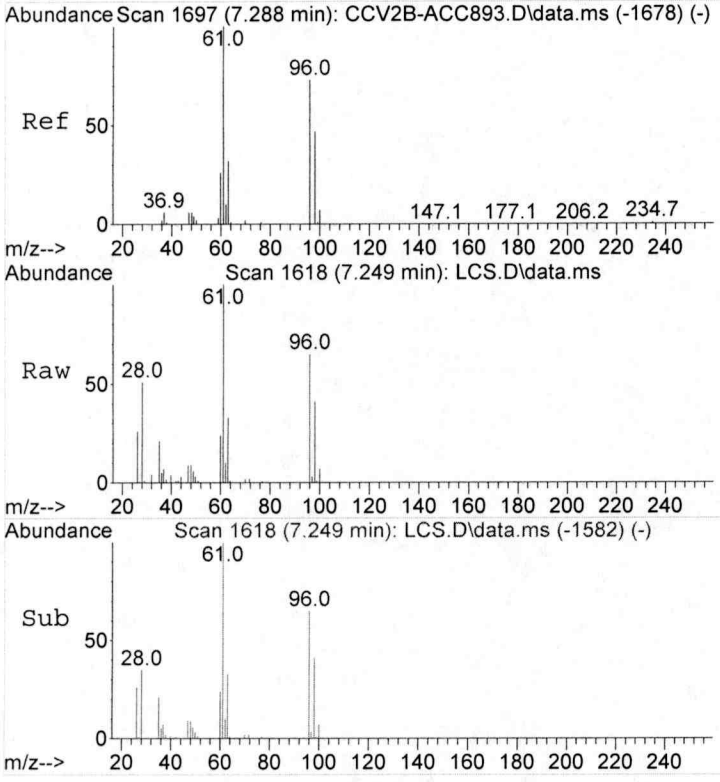


#26
2-Butanone
Concen: 7.906 ppbV
RT: 6.945 min Scan# 1509
Delta R.T. 0.008 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 43 Resp: 37660

Ion	Ratio	Lower	Upper
43	100		
72	21.7	0.0	51.3
57	7.7	0.0	32.0

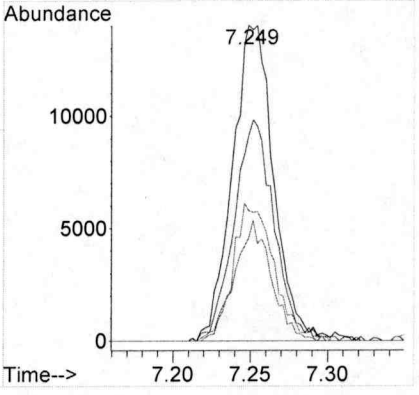


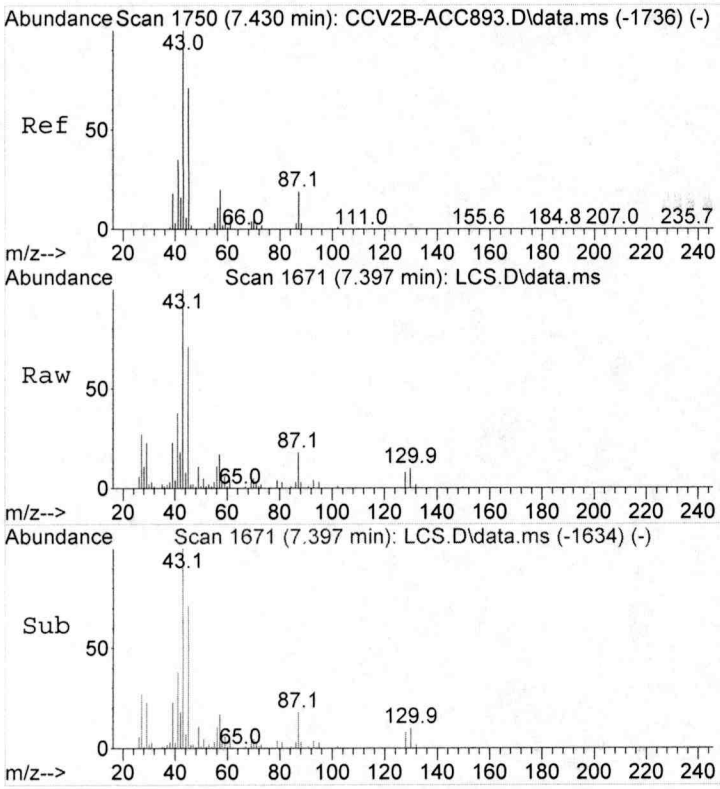


#27
cis-1,2-Dichloroethene
Concen: 7.999 ppbV
RT: 7.249 min Scan# 1618
Delta R.T. 0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 61 Resp: 26033

Ion	Ratio	Lower	Upper
61	100		
96	68.3	38.9	98.9
98	43.3	14.0	74.0
63	33.5	2.3	62.3

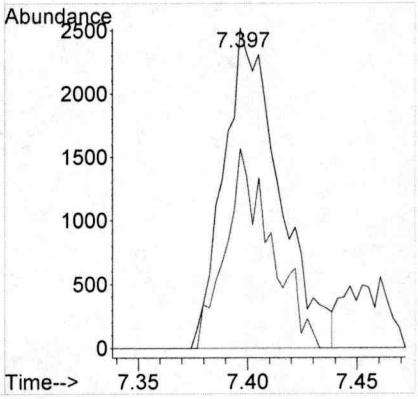


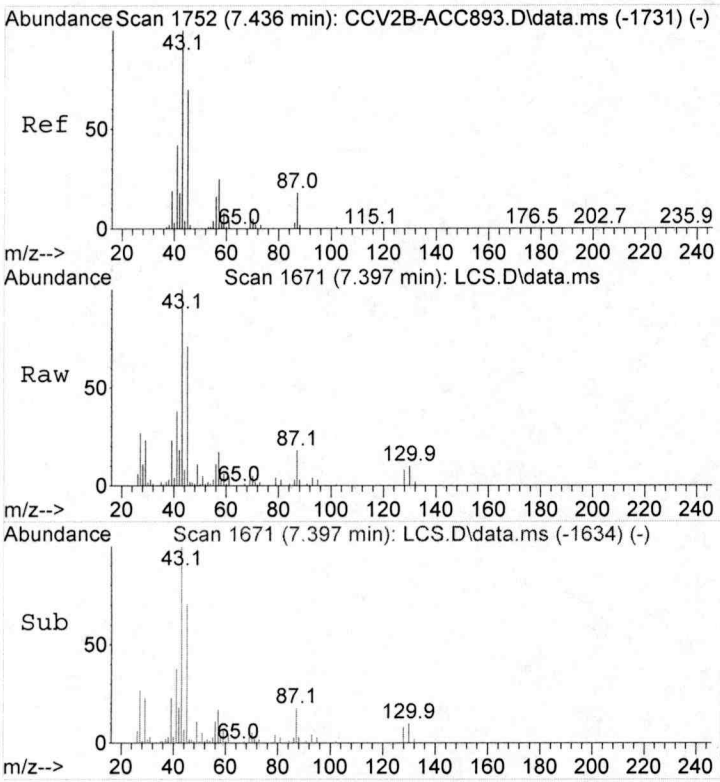


#28
Ethyl Acetate
Concen: 8.848 ppbV
RT: 7.397 min Scan# 1671
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 70 Resp: 4408

Ion	Ratio	Lower	Upper
70	100		
88	50.9	14.5	74.5

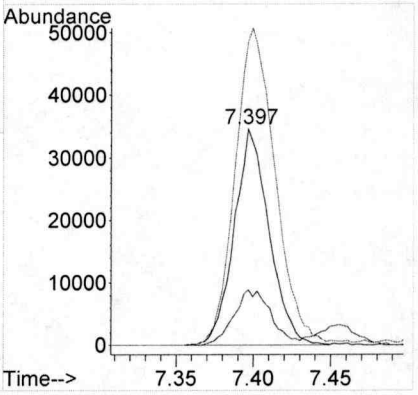


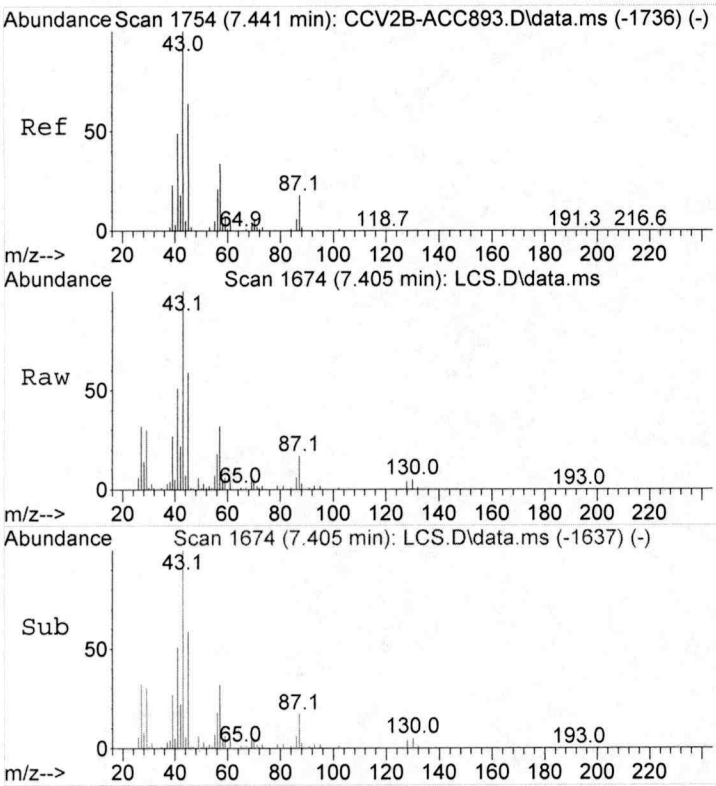


#29
Diisopropyl Ether
Concen: 9.421 ppbV
RT: 7.397 min Scan# 1671
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 45 Resp: 54384

Ion	Ratio	Lower	Upper
45	100		
87	27.2	0.0	56.3
43	169.0	110.9	170.9

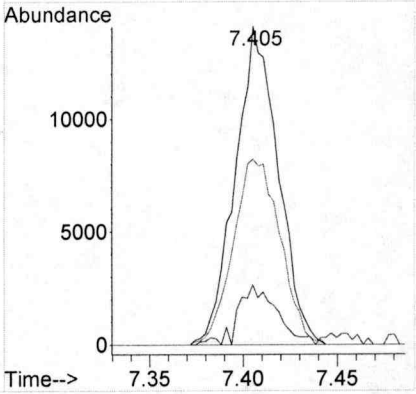


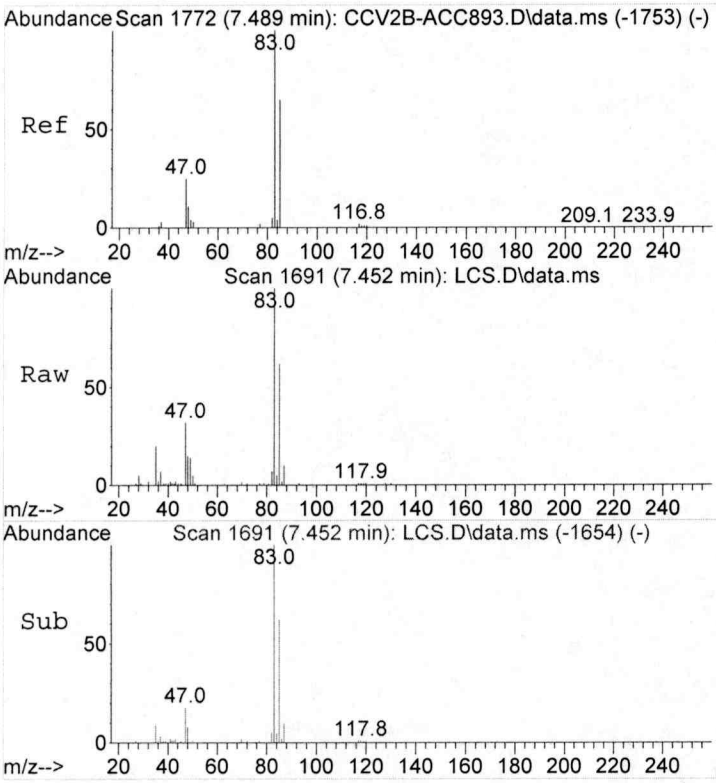


#30
Hexane
Concen: 9.268 ppbV
RT: 7.405 min Scan# 1674
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 57 Resp: 22411

Ion	Ratio	Lower	Upper
57	100		
86	16.1	0.0	47.3
56	63.6	26.1	86.1

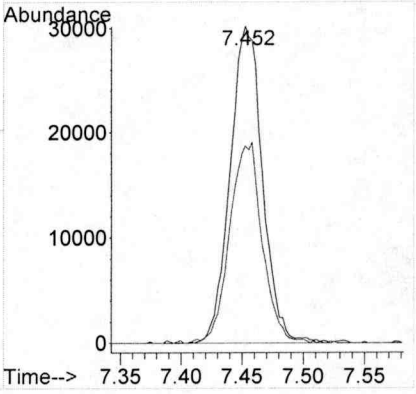


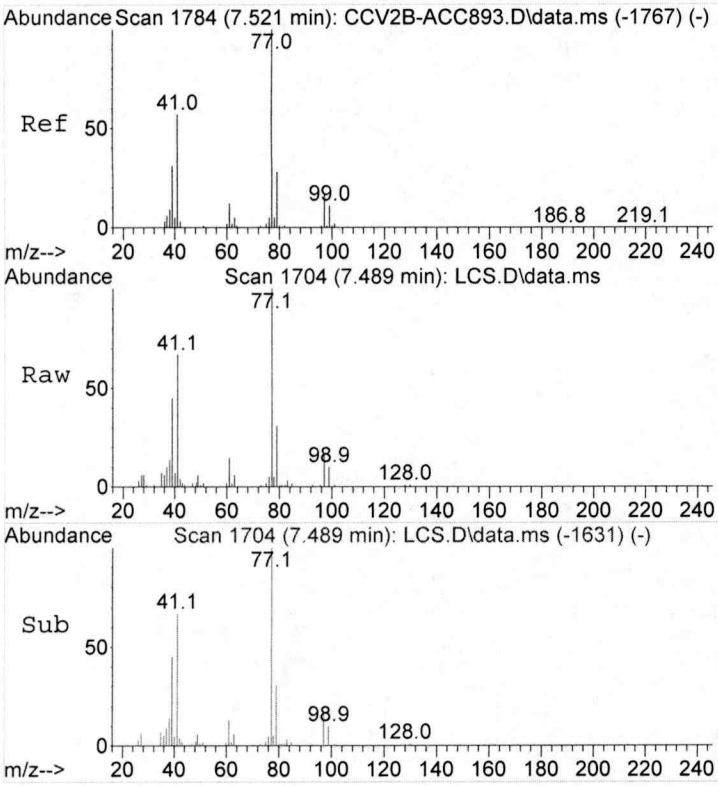


#31
Chloroform
Concen: 9.968 ppbV
RT: 7.452 min Scan# 1691
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 83 Resp: 55610

Ion	Ratio	Lower	Upper
83	100		
85	63.2	33.9	93.9

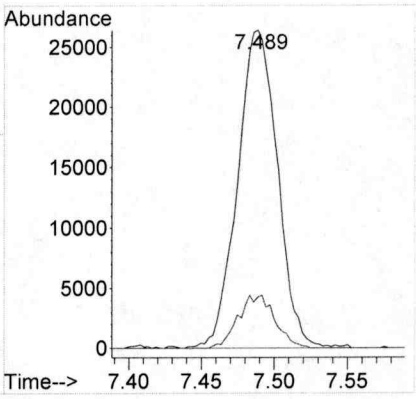


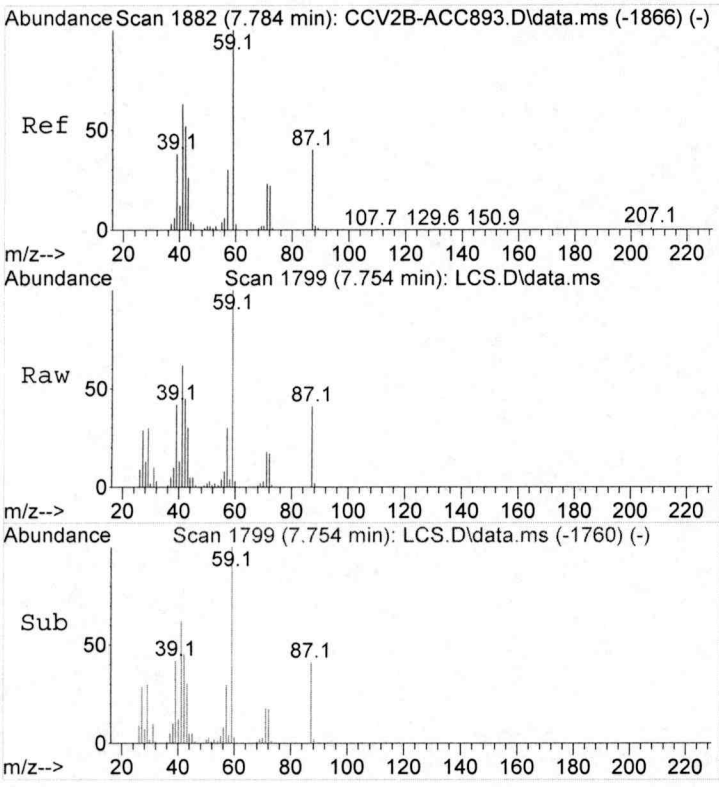


#32
2,2 Dichloropropane
Concen: 9.679 ppbV
RT: 7.489 min Scan# 1704
Delta R.T. 0.005 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 77 Resp: 50092

Ion	Ratio	Lower	Upper
77	100		
97	15.4	0.0	37.0

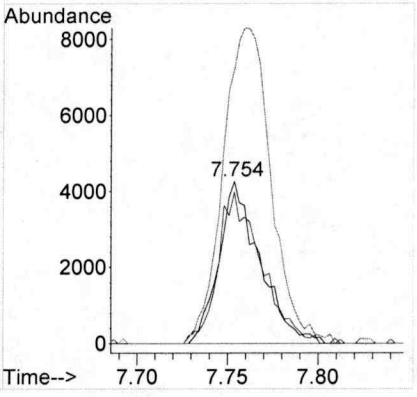


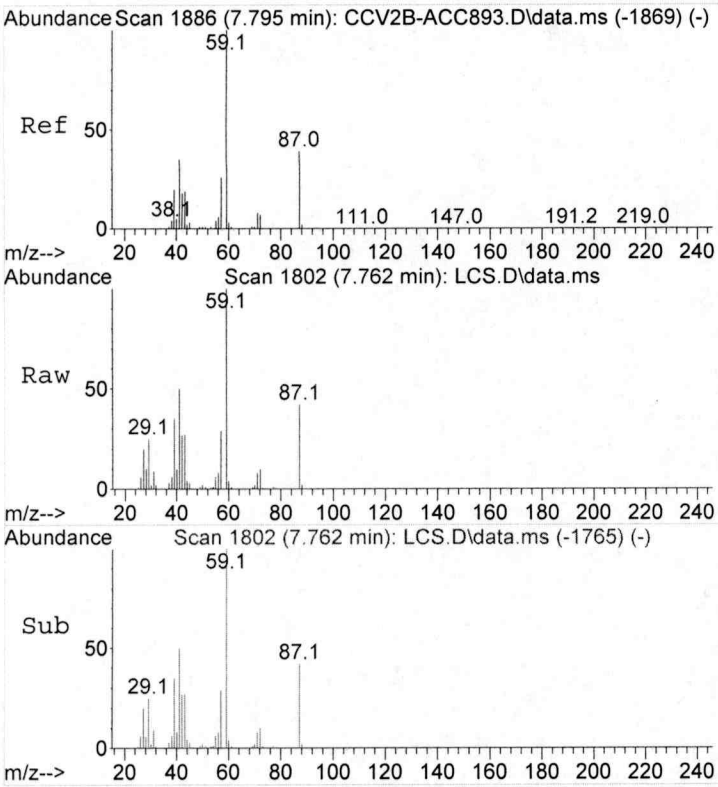


#33
Tetrahydrofuran
Concen: 9.094 ppbV
RT: 7.754 min Scan# 1799
Delta R.T. 0.010 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 71 Resp: 6682

Ion	Ratio	Lower	Upper
71	100		
72	98.6	82.2	123.2
43	228.9	142.2	213.4#

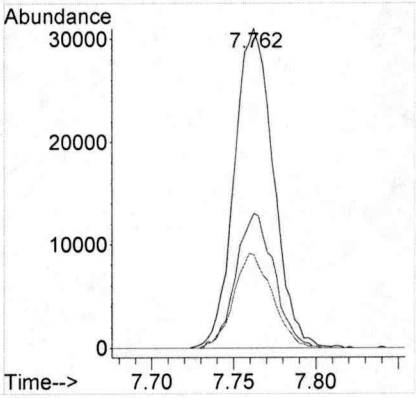


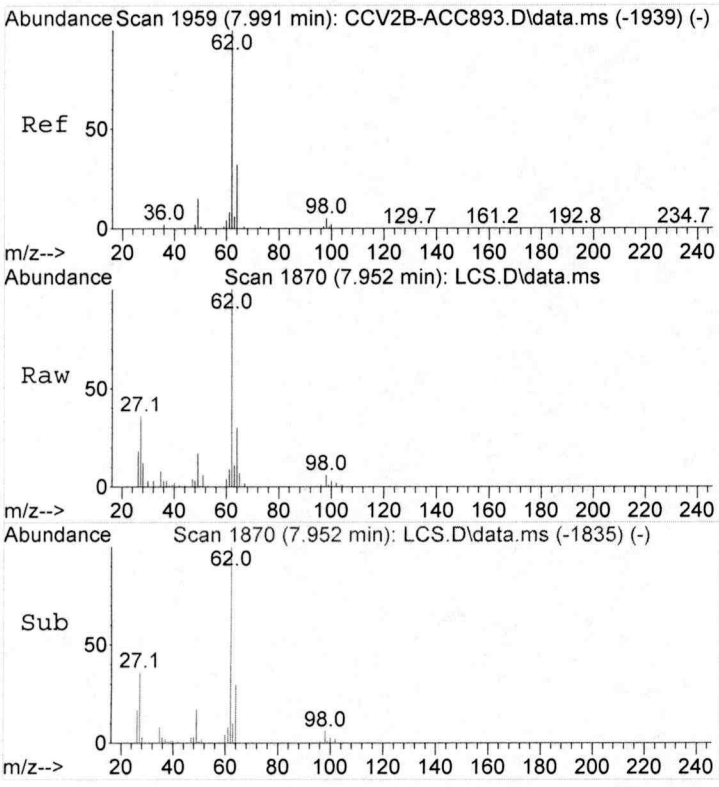


#34
Ethyl-tert-Butyl Ether
Concen: 9.870 ppbV
RT: 7.762 min Scan# 1802
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 59 Resp: 51212

Ion	Ratio	Lower	Upper
59	100		
87	41.0	10.7	70.7
57	29.1	0.0	58.3

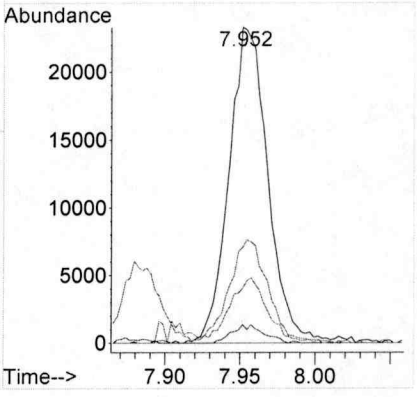


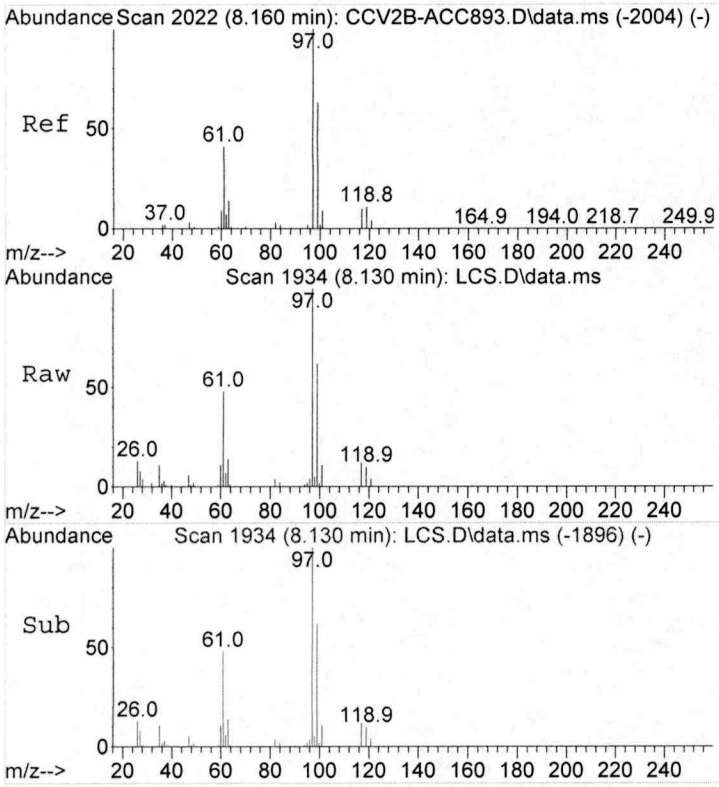


#36
1,2-Dichloroethane
Concen: 9.903 ppbV
RT: 7.952 min Scan# 1870
Delta R.T. -0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 62 Resp: 42059

Ion	Ratio	Lower	Upper
62	100		
98	4.7	0.0	36.1
64	32.9	2.7	62.7
49	20.2	0.0	50.4

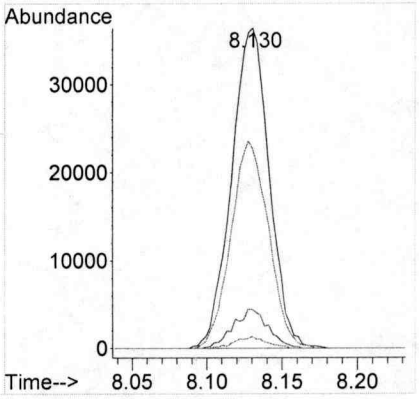


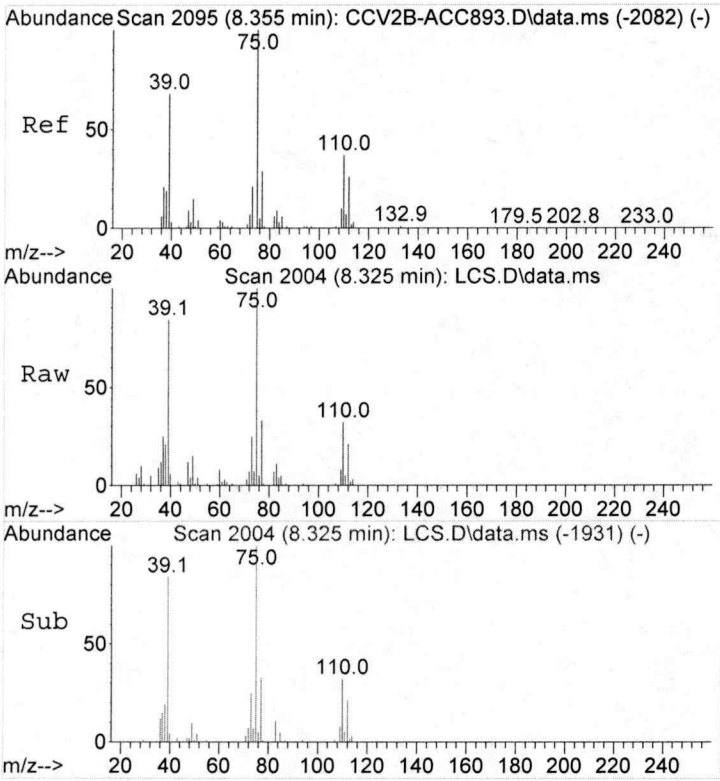


#37
1,1,1-Trichloroethane
Concen: 10.059 ppbV
RT: 8.130 min Scan# 1934
Delta R.T. 0.005 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 97 Resp: 63690

Ion	Ratio	Lower	Upper
97	100		
117	11.5	0.0	41.4
121	3.1	0.0	33.4
99	64.5	34.2	94.2

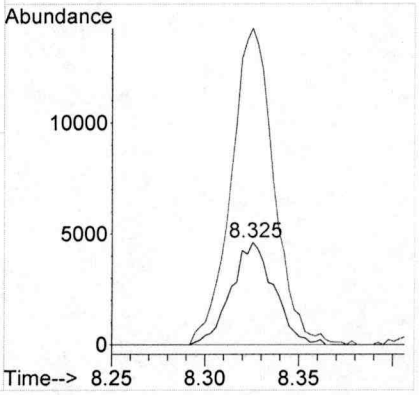


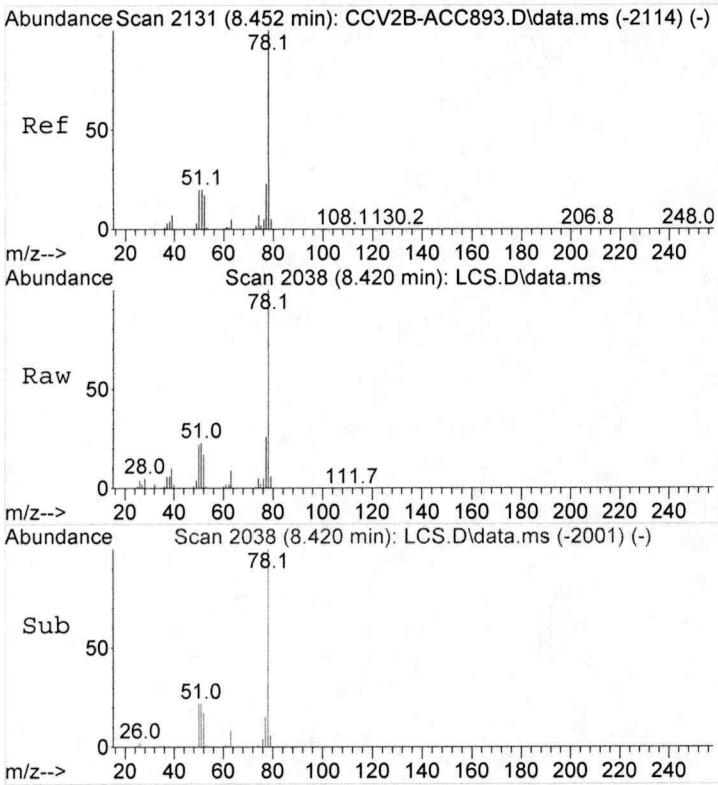


#38
1,1-Dichloropropene
Concen: 7.742 ppbV
RT: 8.325 min Scan# 2004
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:110 Resp: 7346

Ion	Ratio	Lower	Upper
110	100		
75	307.9	272.7	312.7

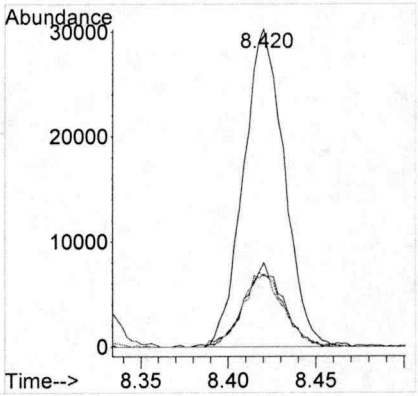


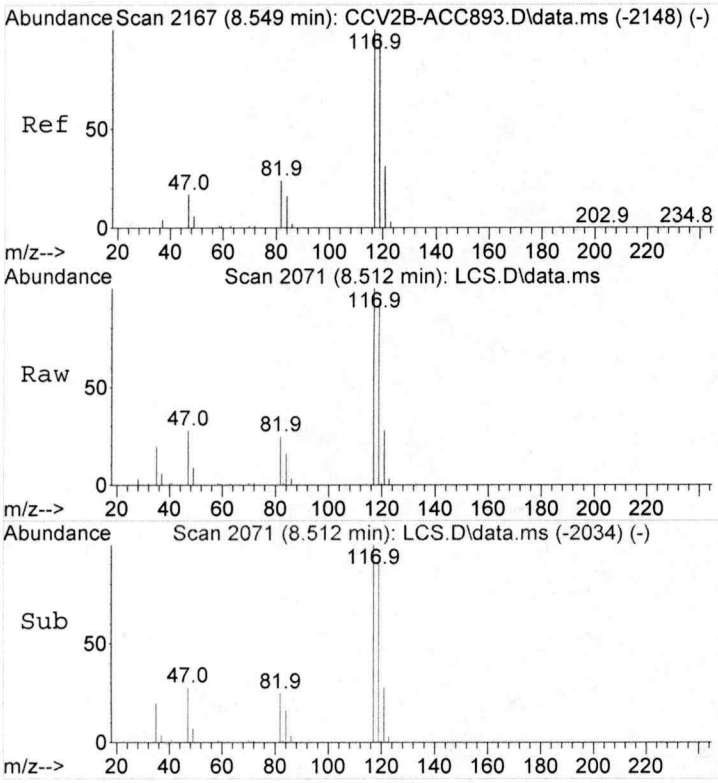


#39
Benzene
Concen: 9.113 ppbV
RT: 8.420 min Scan# 2038
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 78 Resp: 49163

Ion	Ratio	Lower	Upper
78	100		
77	24.8	0.0	54.2
50	23.5	0.0	50.5
51	23.4	0.0	51.1

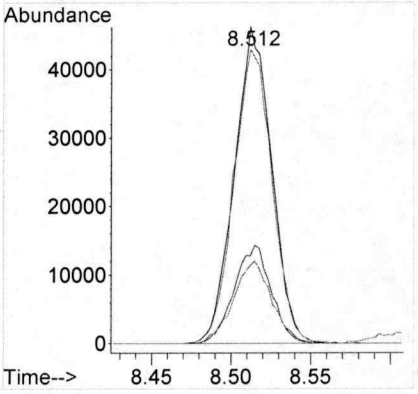


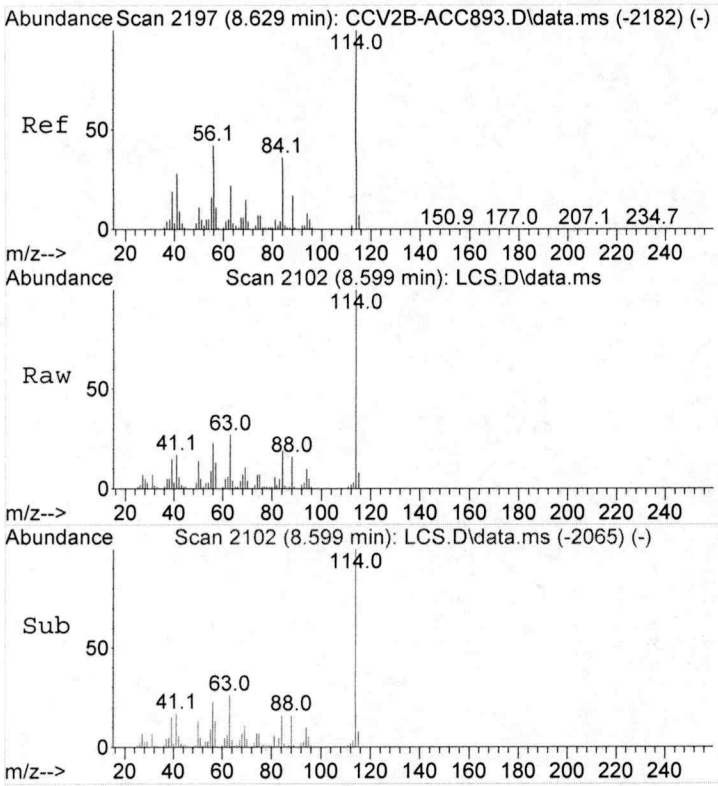


#40
Carbon Tetrachloride
Concen: 10.384 ppbV
RT: 8.512 min Scan# 2071
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:117 Resp: 75258

Ion	Ratio	Lower	Upper
117	100		
121	30.9	0.5	60.5
82	26.2	0.0	54.6
119	95.2	65.1	125.1

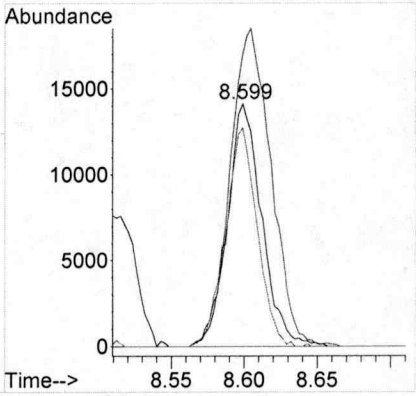


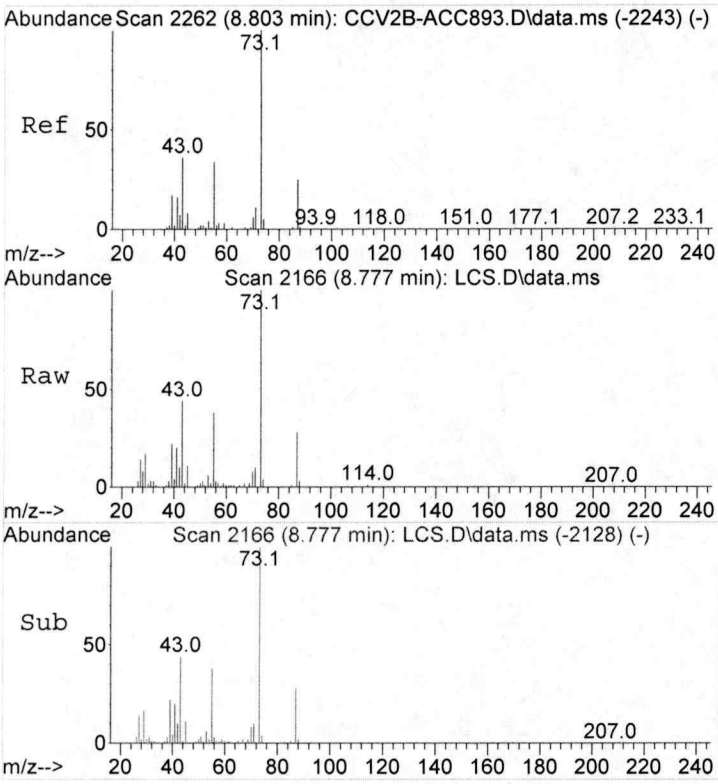


#42
Cyclohexane
Concen: 8.482 ppbV
RT: 8.599 min Scan# 2102
Delta R.T. 0.005 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 84 Resp: 22970

Ion	Ratio	Lower	Upper
84	100		
56	156.0	107.0	167.0
41	83.5	43.0	103.0

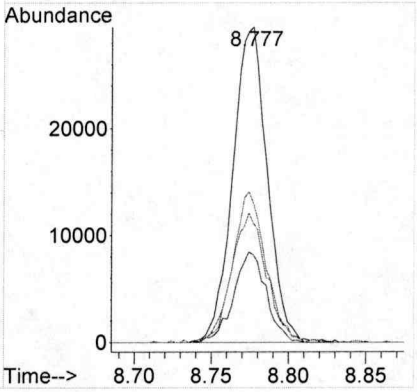


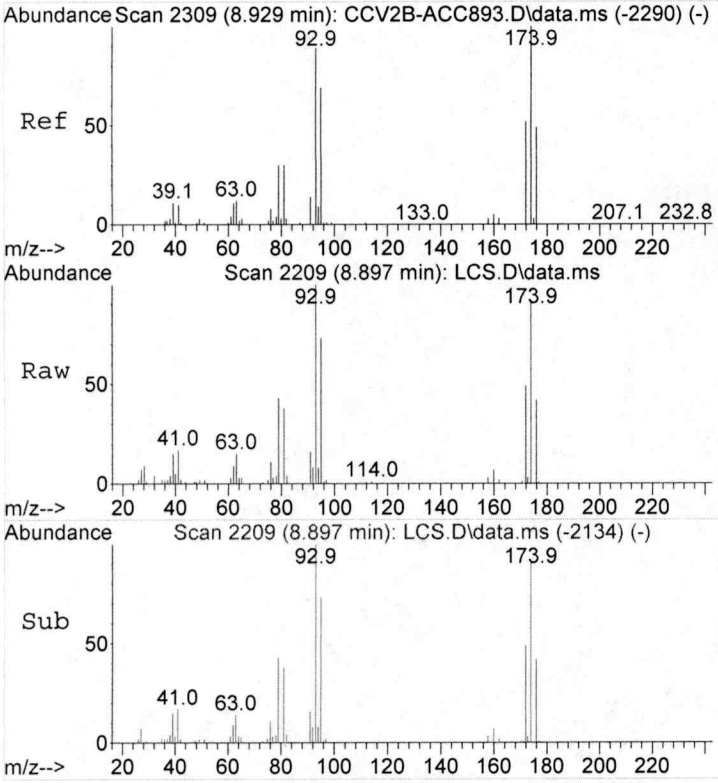


#43
tert-Amyl Methy Ether (TAME)
Concen: 8.201 ppbV
RT: 8.777 min Scan# 2166
Delta R.T. 0.006 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 73 Resp: 45714

Ion	Ratio	Lower	Upper
73	100		
87	27.1	0.0	55.8
55	41.2	0.0	59.9
43	46.6	8.4	68.4

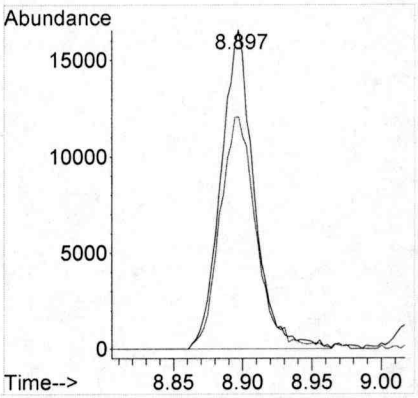


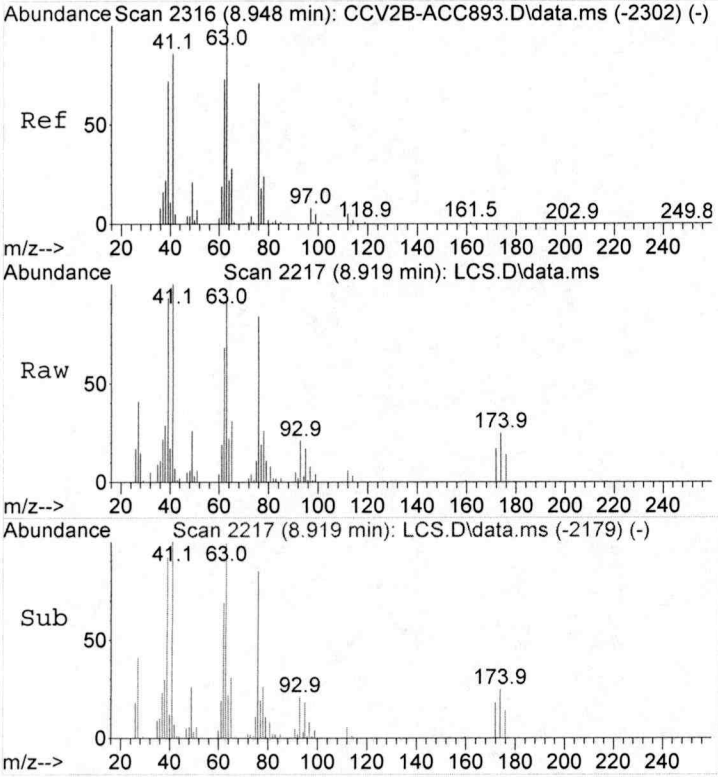


#44
Dibromomethane
Concen: 8.656 ppbV
RT: 8.897 min Scan# 2209
Delta R.T. 0.008 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 93 Resp: 27753

Ion	Ratio	Lower	Upper
93	100		
95	78.6	61.5	101.5

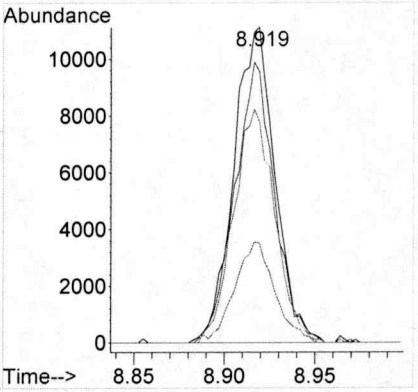


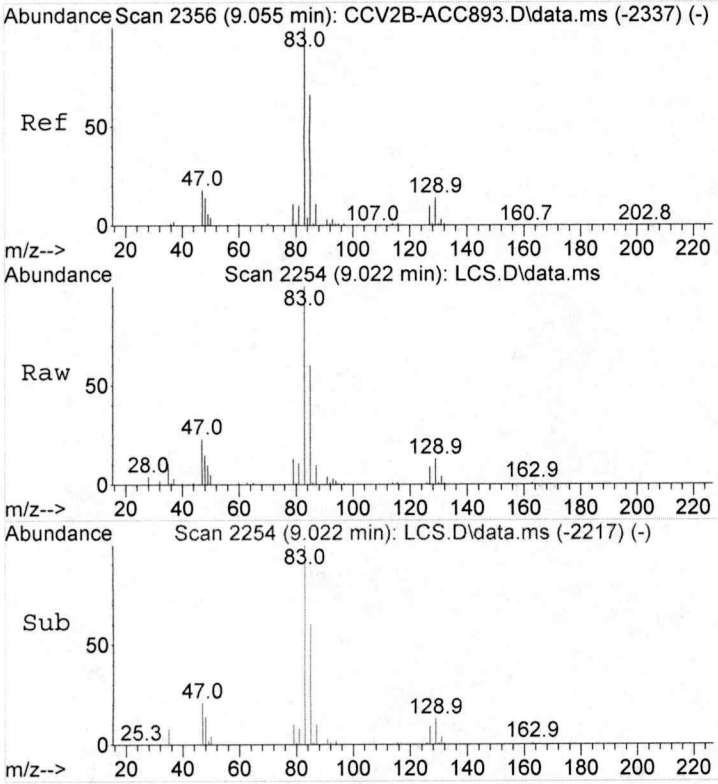


#45
1,2-Dichloropropane
Concen: 8.210 ppbV
RT: 8.919 min Scan# 2217
Delta R.T. 0.006 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 63 Resp: 17591

Ion	Ratio	Lower	Upper
63	100		
76	85.7	38.0	98.0
62	74.3	44.9	104.9
65	31.4	1.3	61.3

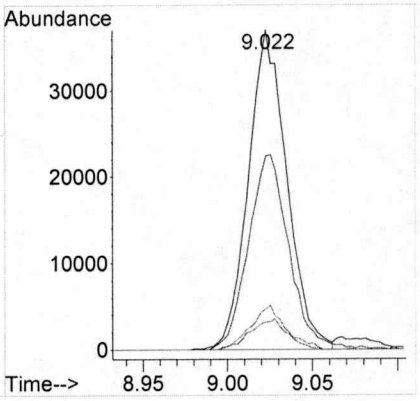


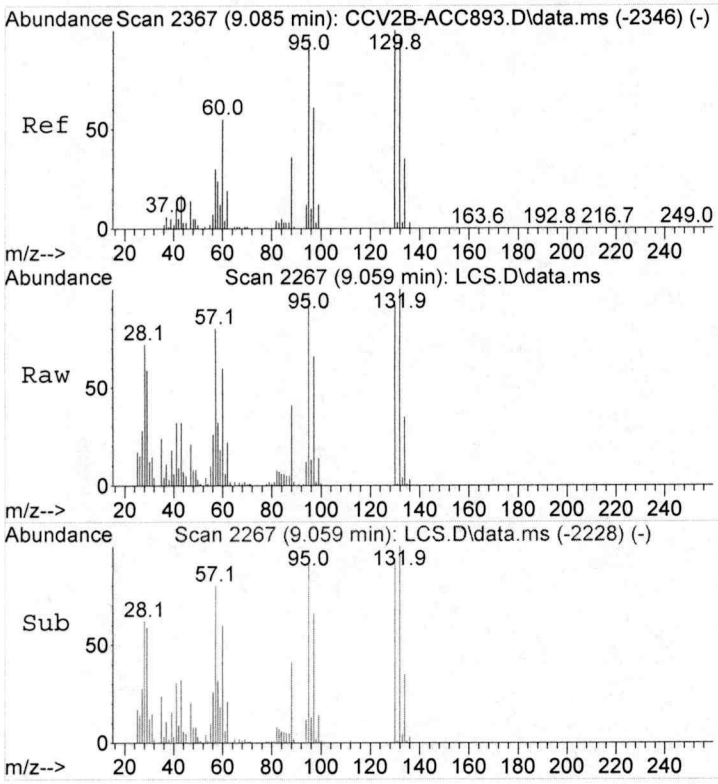


#46
Bromodichloromethane
Concen: 8.666 ppbV
RT: 9.022 min Scan# 2254
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 83 Resp: 58415

Ion	Ratio	Lower	Upper
83	100		
85	63.8	31.1	91.1
127	9.3	0.0	38.9
129	12.6	0.0	41.6

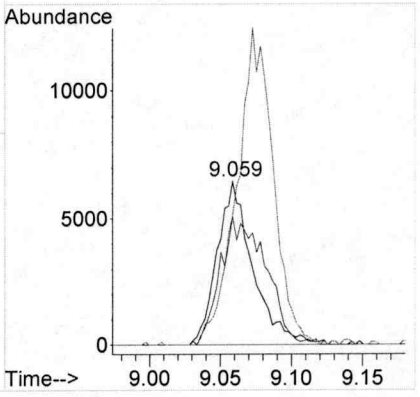


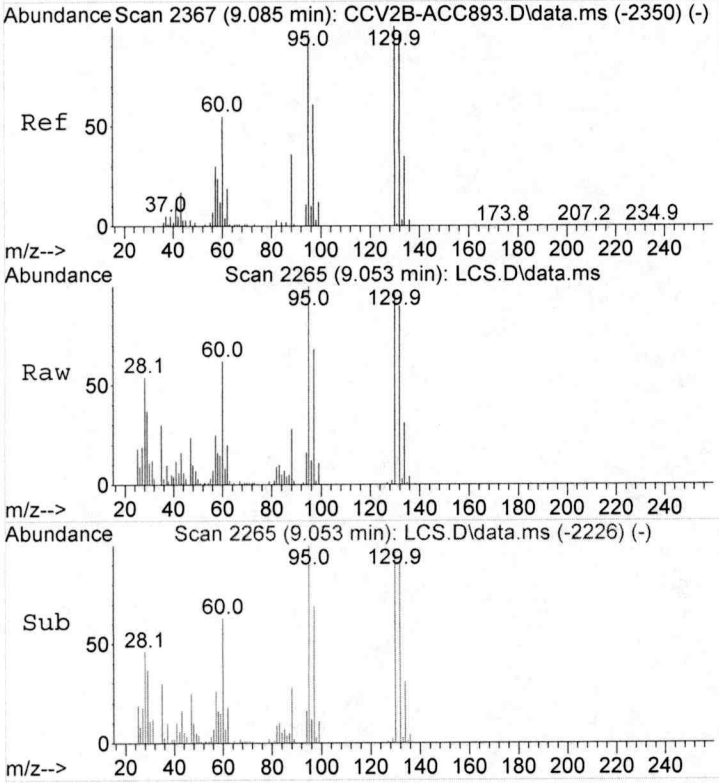


#47
1,4-Dioxane
Concen: 7.200 ppbV
RT: 9.059 min Scan# 2267
Delta R.T. 0.009 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 88 Resp: 11251

Ion	Ratio	Lower	Upper
88	100		
58	98.8	70.1	130.1
43	197.0	148.9	208.9

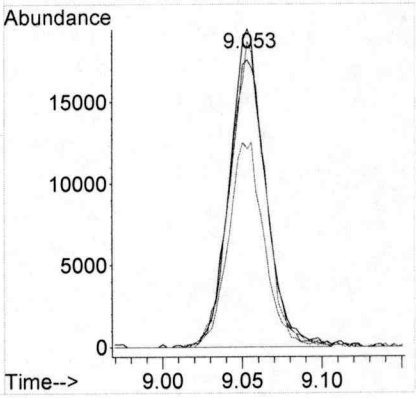


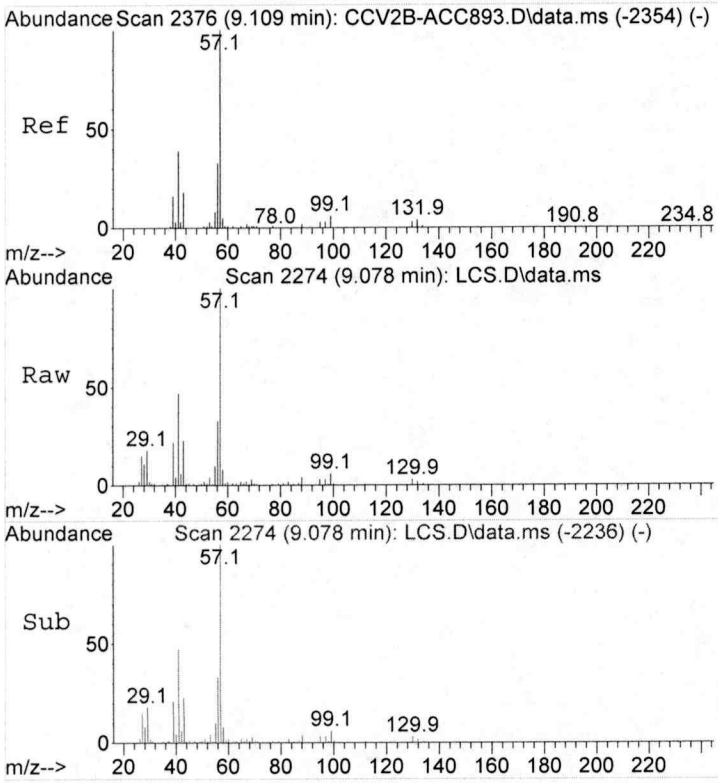


#48
Trichloroethene
Concen: 8.530 ppbV
RT: 9.053 min Scan# 2265
Delta R.T. 0.008 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 95 Resp: 30362

Ion	Ratio	Lower	Upper
95	100		
132	93.7	70.0	130.0
60	64.0	28.7	88.7
130	94.1	75.0	135.0

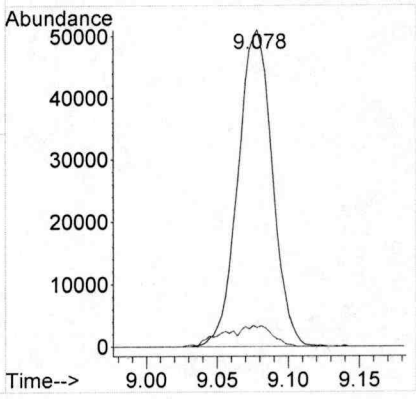


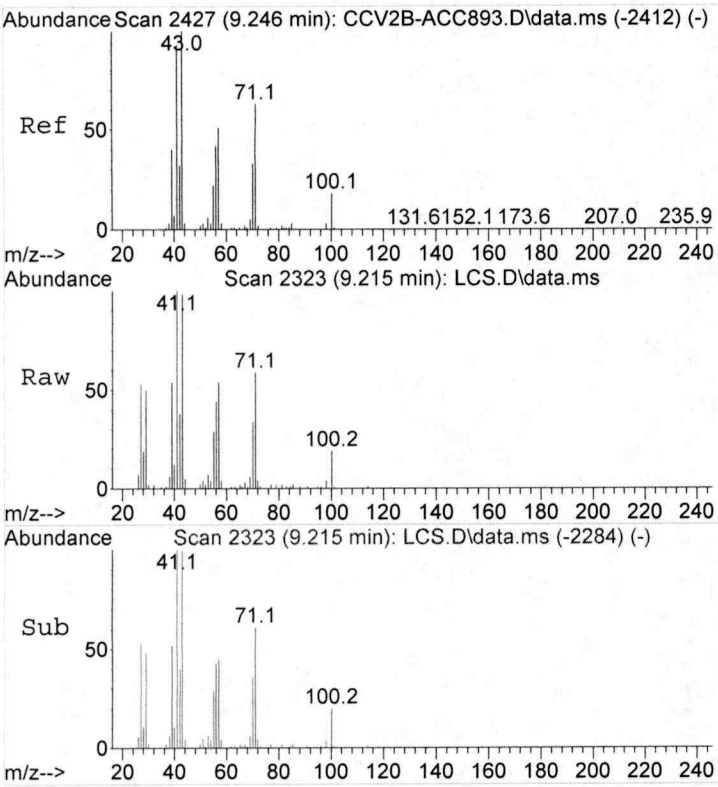


#49
2,2,4 Trimethylpentane
Concen: 9.311 ppbV
RT: 9.078 min Scan# 2274
Delta R.T. 0.006 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 57 Resp: 85595

Ion	Ratio	Lower	Upper
57	100		
99	5.7	7.0	10.4#

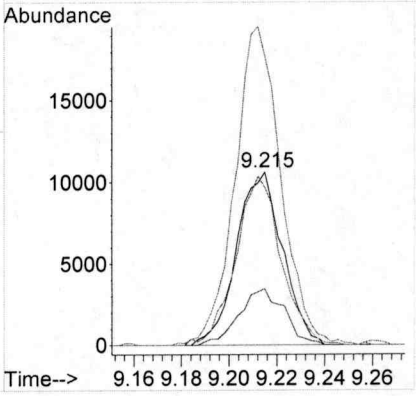


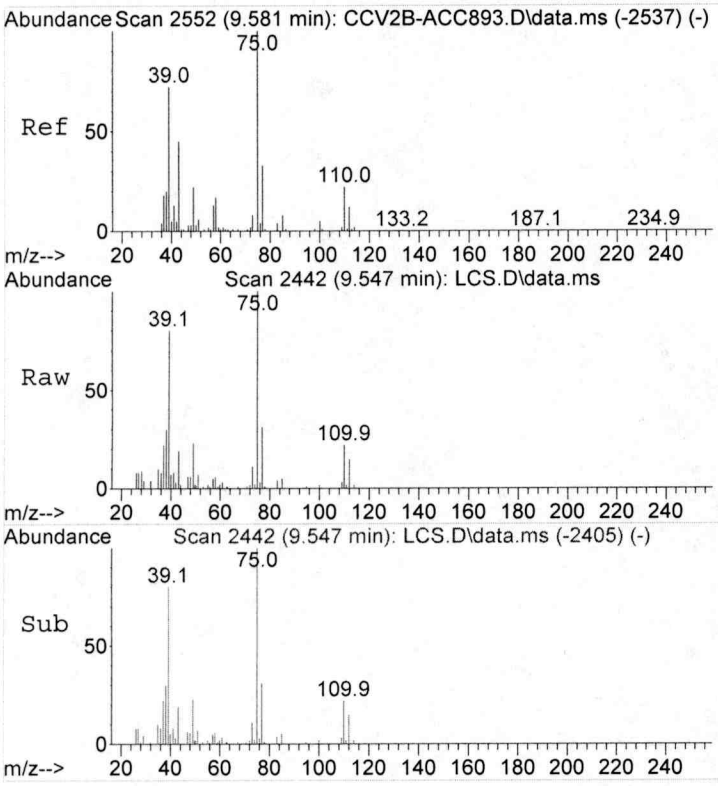


#50
Heptane
Concen: 8.219 ppbV
RT: 9.215 min Scan# 2323
Delta R.T. 0.009 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 71 Resp: 14244

Ion	Ratio	Lower	Upper
71	100		
100	32.0	1.2	61.2
57	96.3	61.4	121.4
43	183.5	139.4	199.4

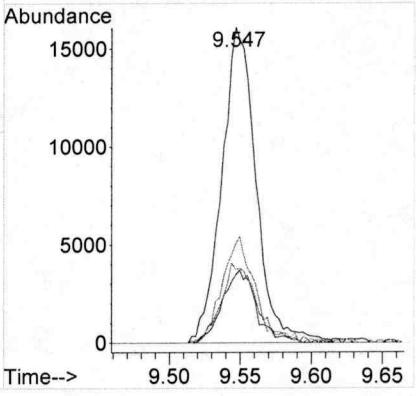


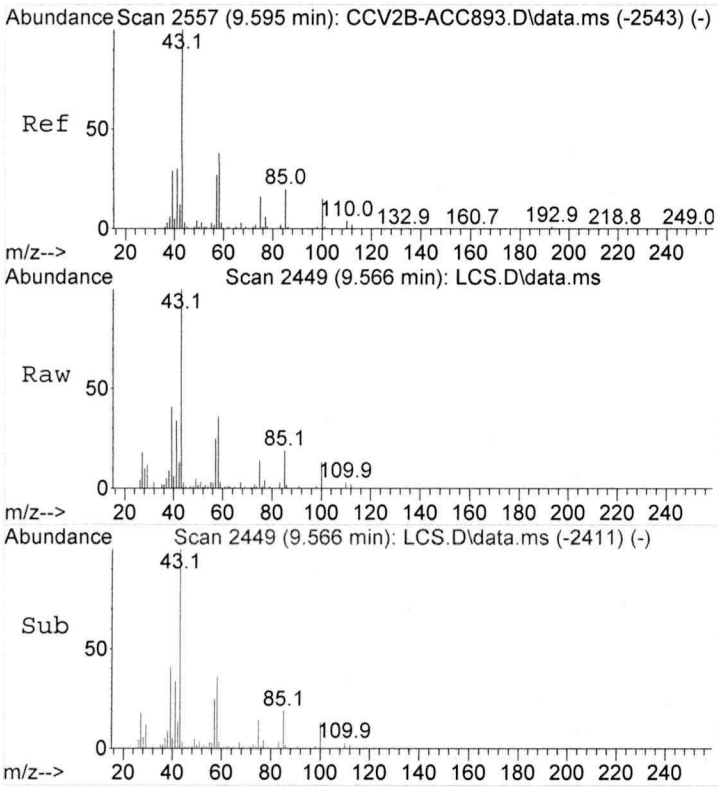


#51
cis-1,3-Dichloropropene
Concen: 7.718 ppbV
RT: 9.547 min Scan# 2442
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 75 Resp: 26973

Ion	Ratio	Lower	Upper
75	100		
110	22.8	0.0	51.2
49	25.5	0.0	51.7
77	32.6	1.6	61.6

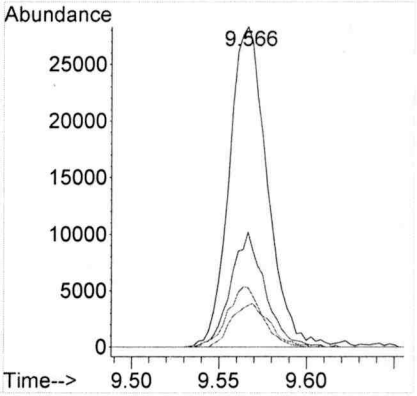


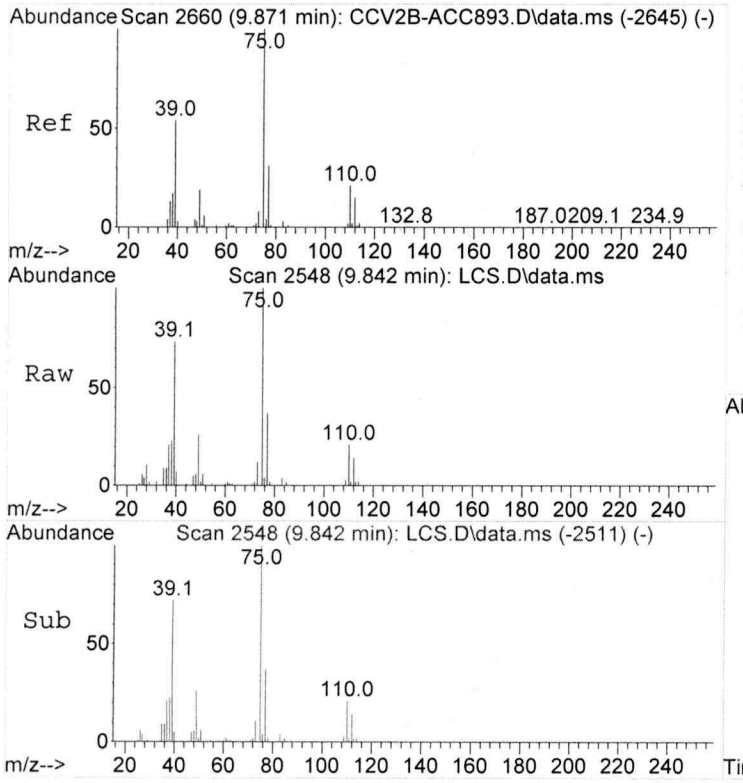


#52
4-Methyl-2-Pentanone
Concen: 9.048 ppbV
RT: 9.566 min Scan# 2449
Delta R.T. 0.006 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 43 Resp: 42767

Ion	Ratio	Lower	Upper
43	100		
58	32.3	5.8	65.8
85	18.3	0.0	47.9
100	12.6	0.0	44.7

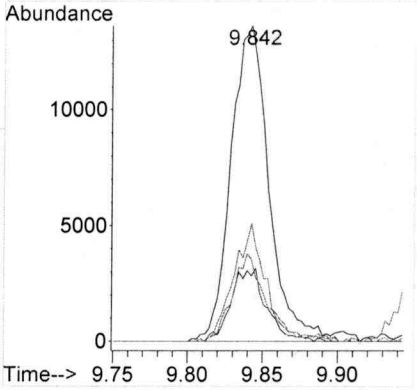


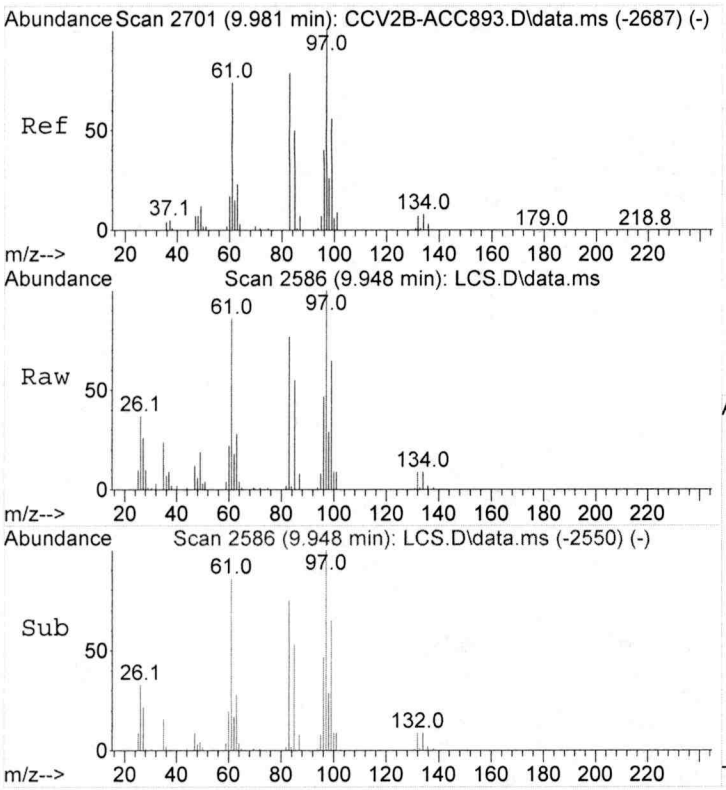


#53
trans-1,3-Dichloropropene
Concen: 7.074 ppbV
RT: 9.842 min Scan# 2548
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 75 Resp: 24015

Ion	Ratio	Lower	Upper
75	100		
110	21.3	0.0	50.8
49	24.1	0.0	51.0
77	31.5	2.1	62.1

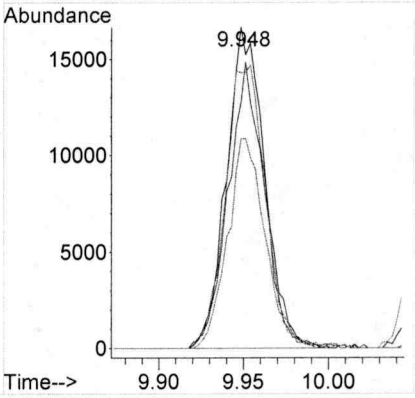


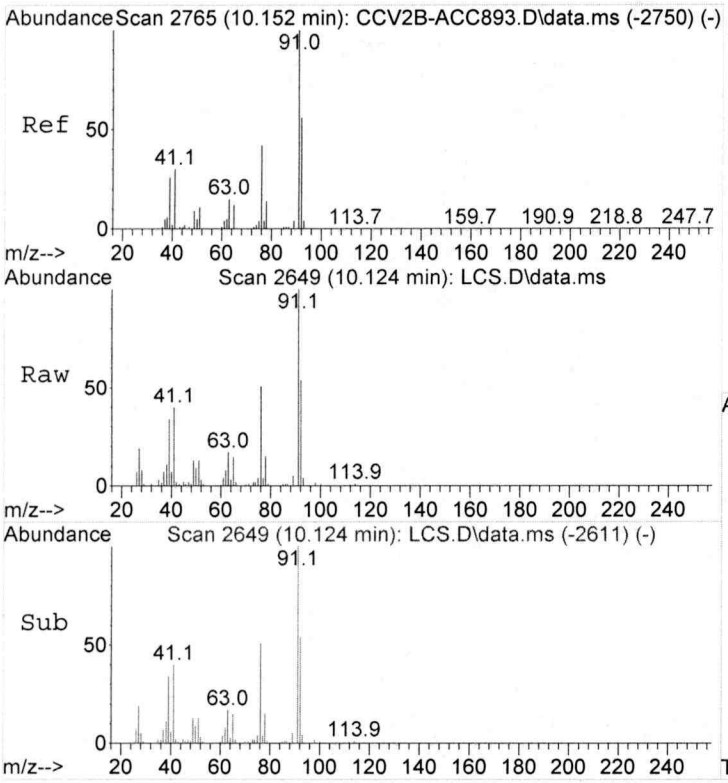


#54
1,1,2-Trichloroethane
Concen: 8.070 ppbV
RT: 9.948 min Scan# 2586
Delta R.T. -0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 97 Resp: 26177

Ion	Ratio	Lower	Upper
97	100		
83	82.8	52.3	112.3
61	91.9	48.8	108.8
99	63.4	32.0	92.0

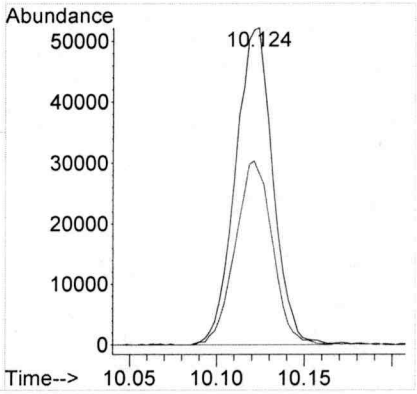


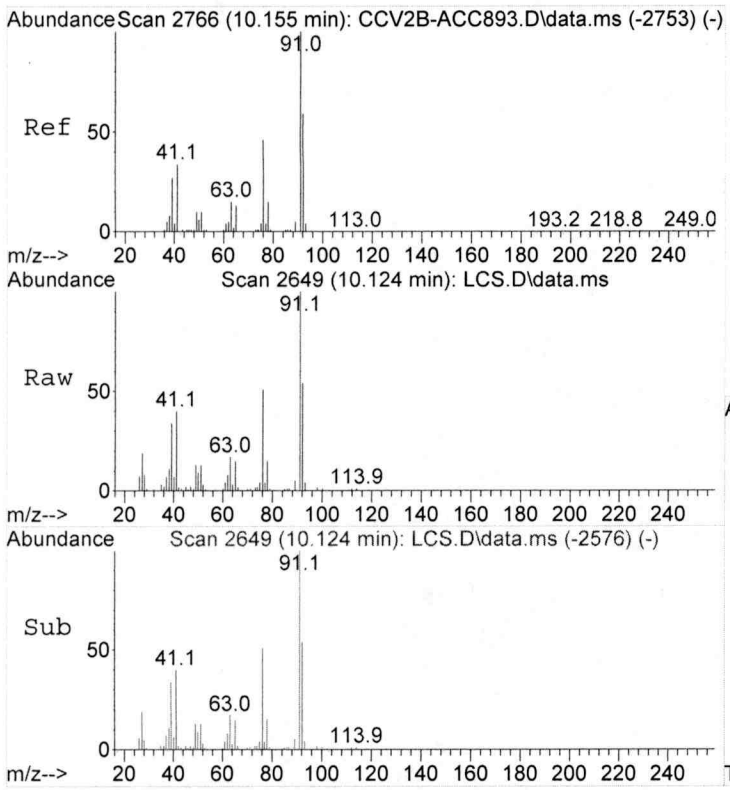


#56
Toluene
Concen: 7.854 ppbV
RT: 10.124 min Scan# 2649
Delta R.T. 0.006 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 91 Resp: 77661

Ion	Ratio	Lower	Upper
91	100		
92	58.0	28.5	88.5

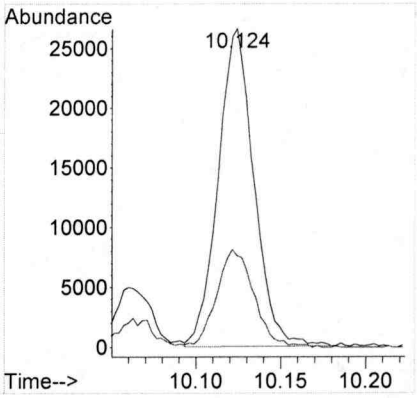


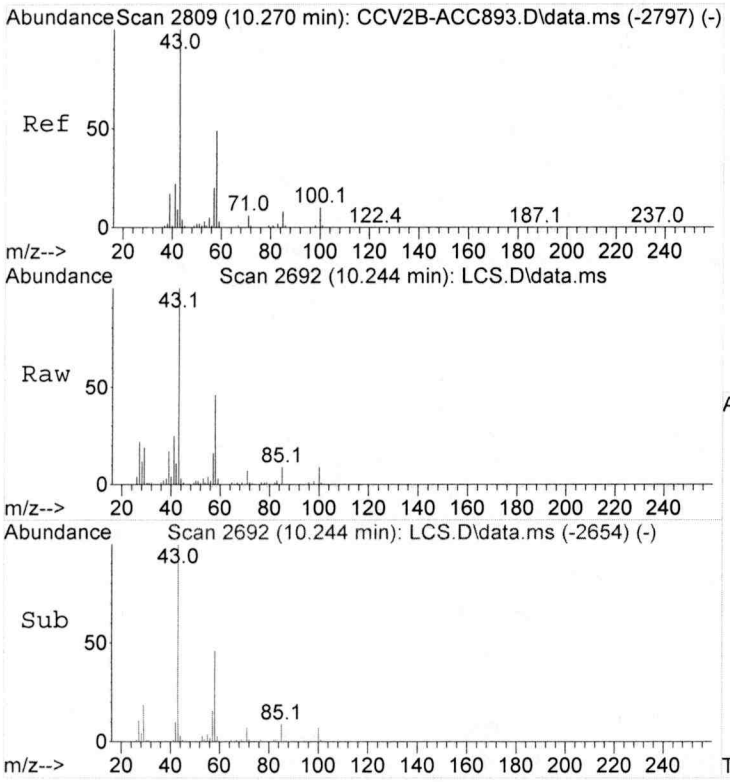


#57
1,3 Dichloropropane
Concen: 8.343 ppbV
RT: 10.124 min Scan# 2649
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 76 Resp: 38760

Ion	Ratio	Lower	Upper
76	100		
78	32.0	13.2	53.2

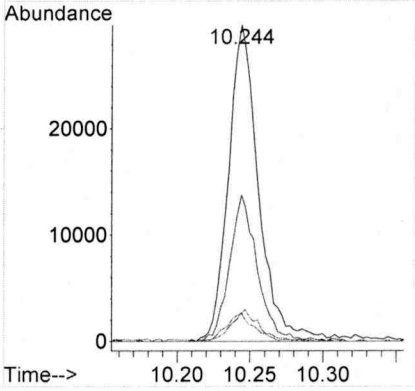


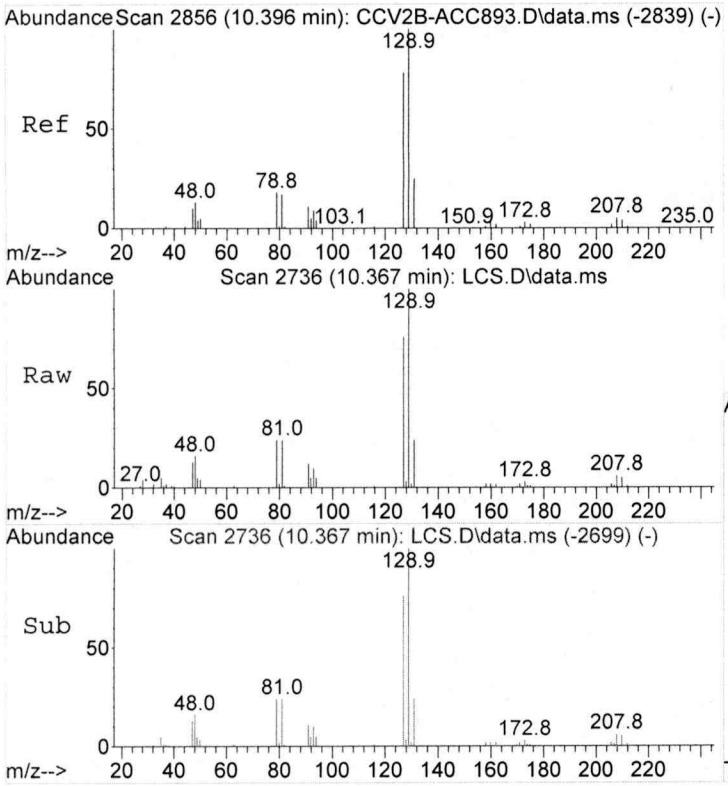


#58
2-Hexanone
Concen: 8.612 ppbV
RT: 10.244 min Scan# 2692
Delta R.T. 0.006 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 43 Resp: 42757

Ion	Ratio	Lower	Upper
43	100		
58	42.3	18.3	78.3
85	7.5	0.0	38.6
100	10.1	0.0	39.7

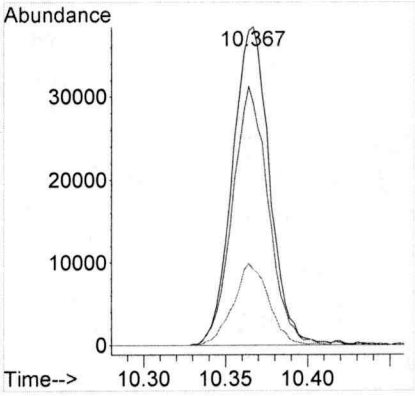


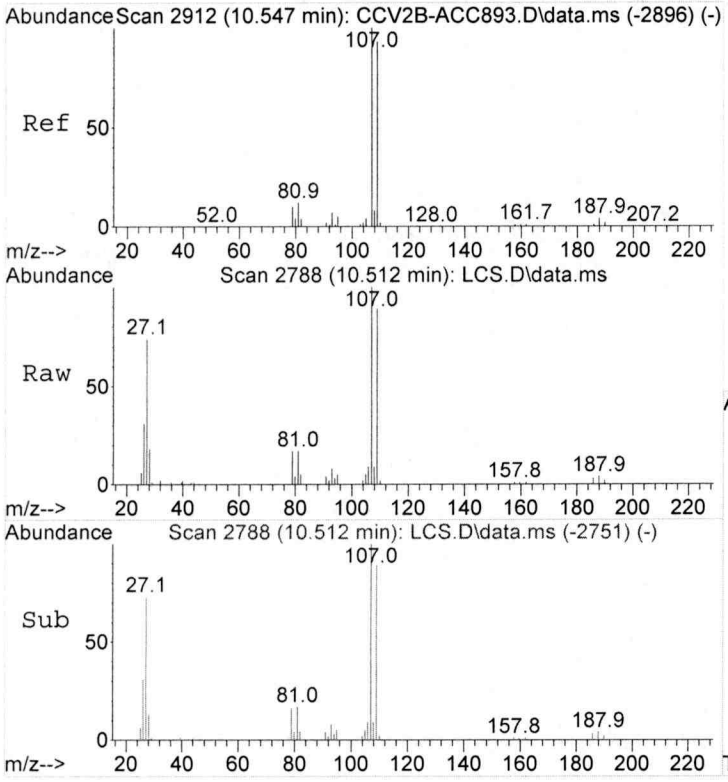


#59
Dibromochloromethane
Concen: 8.095 ppbV
RT: 10.367 min Scan# 2736
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:129 Resp: 60266

Ion	Ratio	Lower	Upper
129	100		
127	79.4	46.7	106.7
131	24.5	0.0	54.3

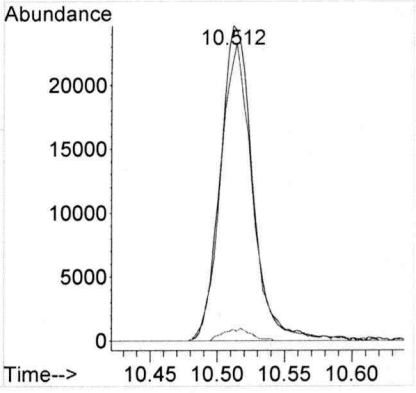


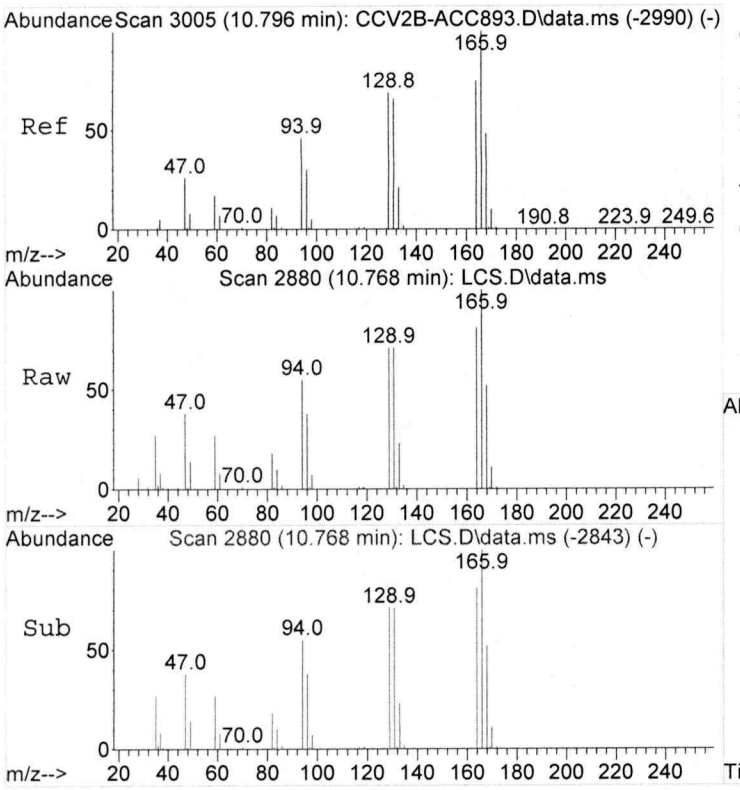


#60
1,2-Dibromoethane (EDB)
Concen: 7.876 ppbV
RT: 10.512 min Scan# 2788
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:107 Resp: 41351

Ion	Ratio	Lower	Upper
107	100		
109	93.0	66.9	126.9
188	3.4	0.0	33.8

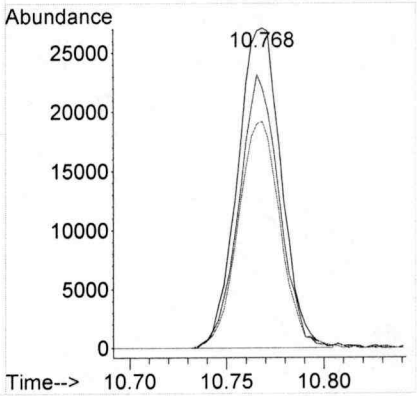


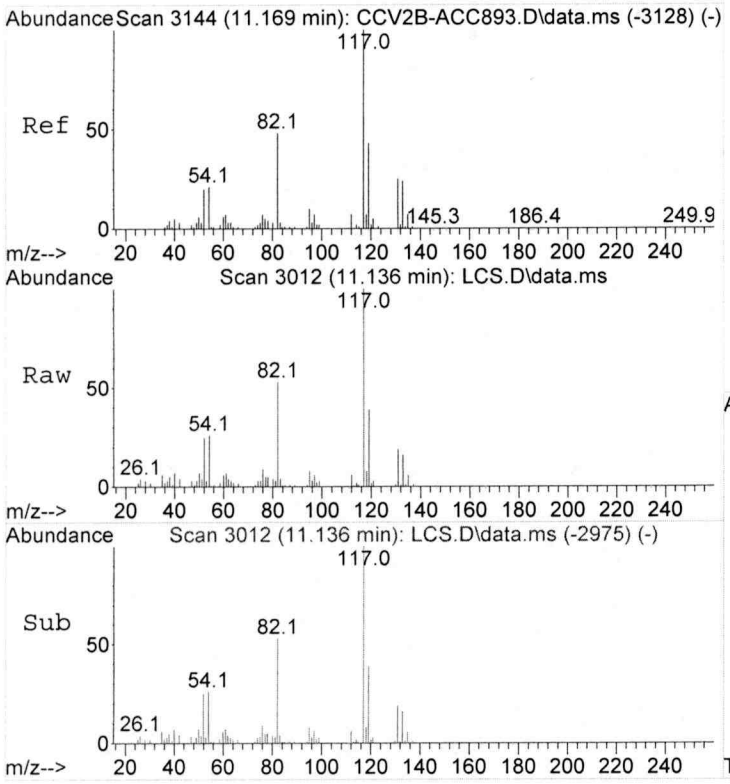


#61
Tetrachloroethene
Concen: 7.287 ppbV
RT: 10.768 min Scan# 2880
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:166 Resp: 42296

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.1	107.1
131	68.4	37.3	97.3

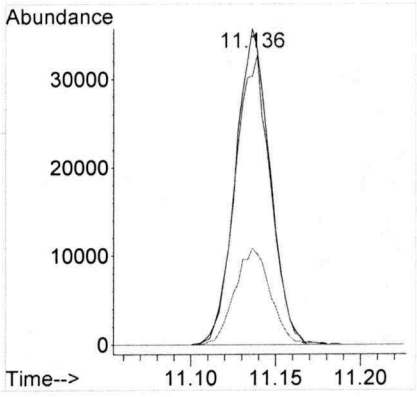


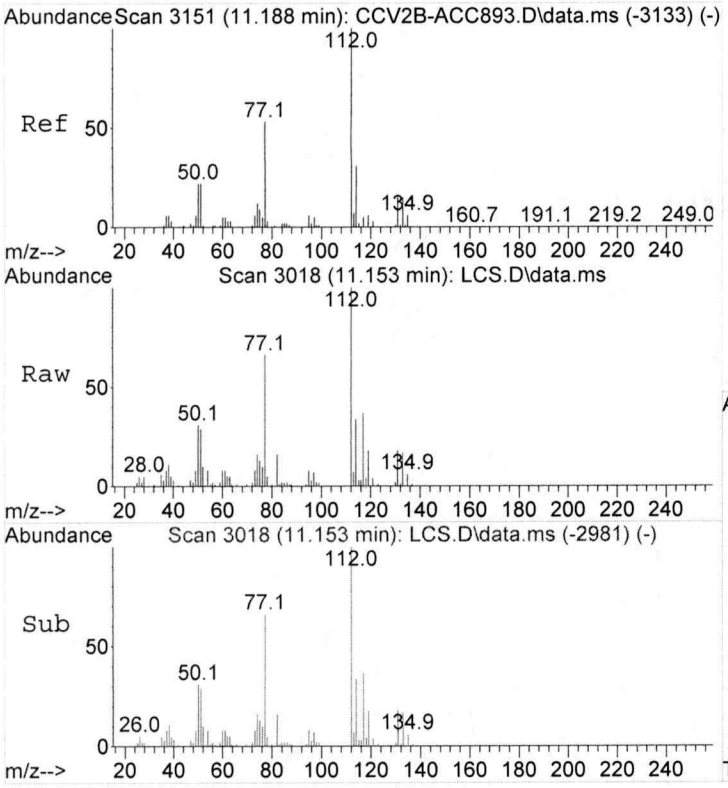


#62
1,1,1,2-Tetrachloroethane
Concen: 7.960 ppbV
RT: 11.136 min Scan# 3012
Delta R.T. 0.002 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:131 Resp: 50393

Ion	Ratio	Lower	Upper
131	100		
133	94.0	74.9	114.9
135	31.2	10.5	50.5

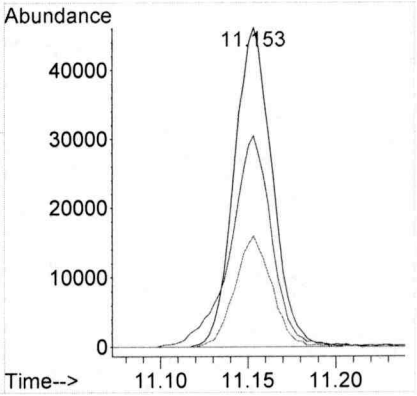


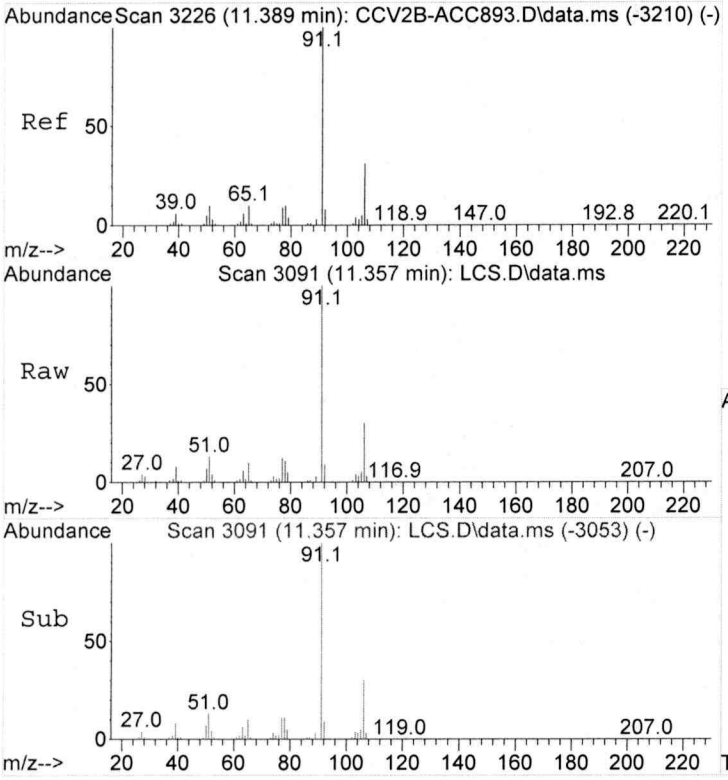


#64
Chlorobenzene
Concen: 7.378 ppbV
RT: 11.153 min Scan# 3018
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:112 Resp: 69395

Ion	Ratio	Lower	Upper
112	100		
77	71.5	35.2	95.2
114	33.7	2.4	62.4

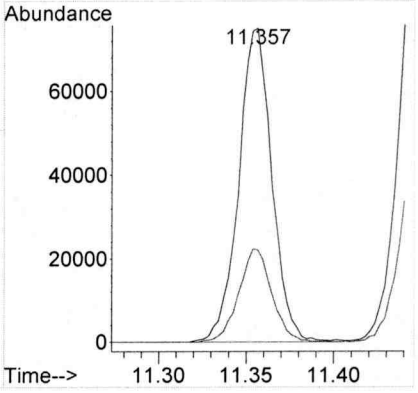


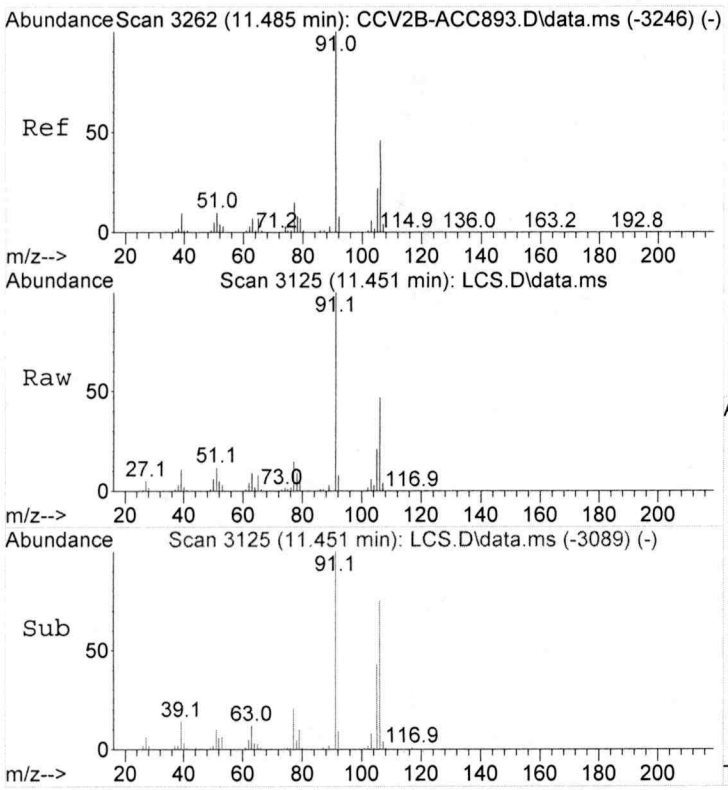


#65
Ethylbenzene
Concen: 8.290 ppbV
RT: 11.357 min Scan# 3091
Delta R.T. 0.006 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 91 Resp: 98823

Ion	Ratio	Lower	Upper
91	100		
106	29.6	0.0	59.5

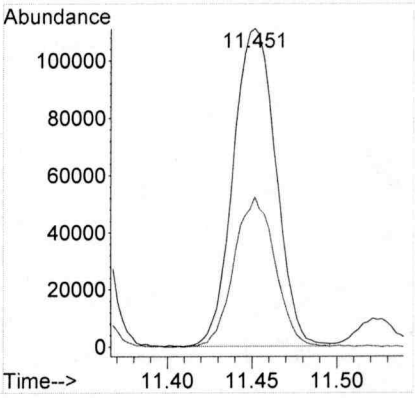


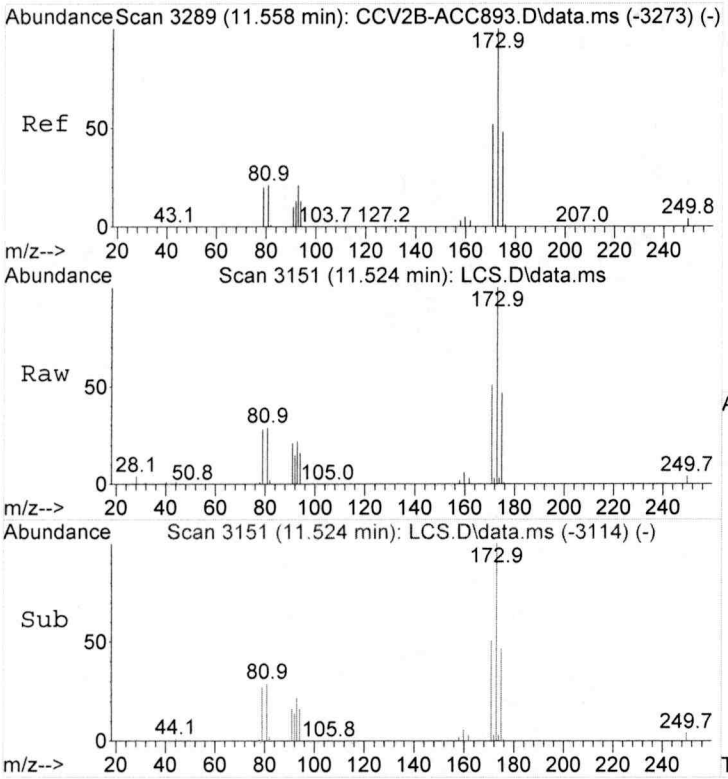


#66
m,p-Xylene
Concen: 17.573 ppbV
RT: 11.451 min Scan# 3125
Delta R.T. 0.000 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 91 Resp: 193813

Ion	Ratio	Lower	Upper
91	100		
106	45.3	16.6	76.6

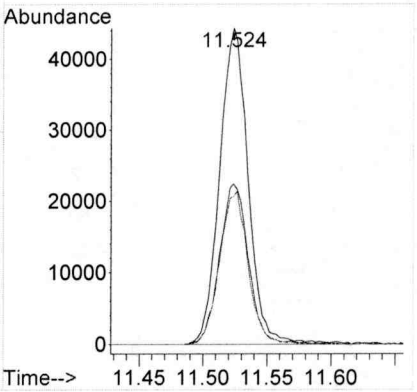


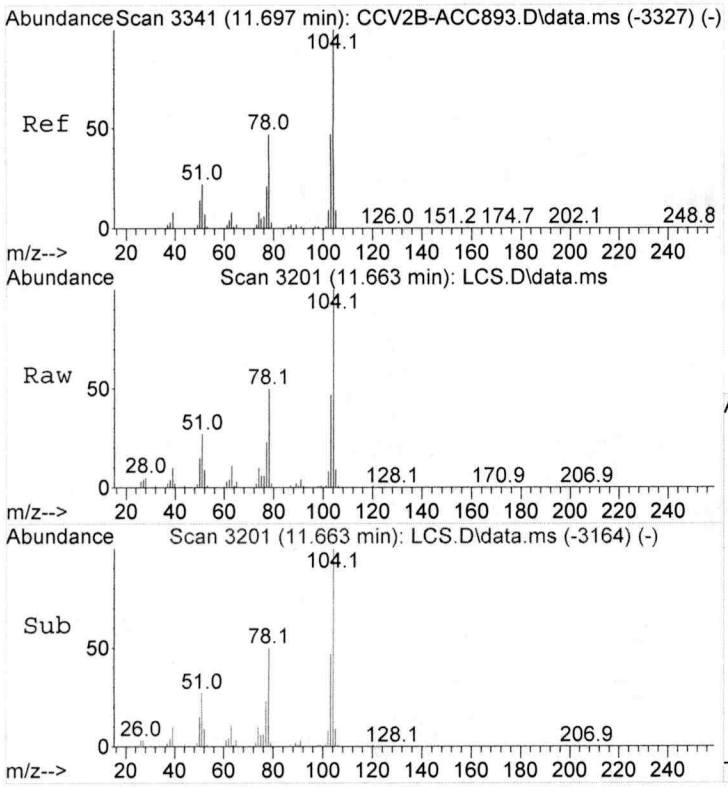


#67
Bromoform
Concen: 7.681 ppbV
RT: 11.524 min Scan# 3151
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:173 Resp: 68863

Ion	Ratio	Lower	Upper
173	100		
171	50.7	20.9	80.9
175	48.2	19.1	79.1

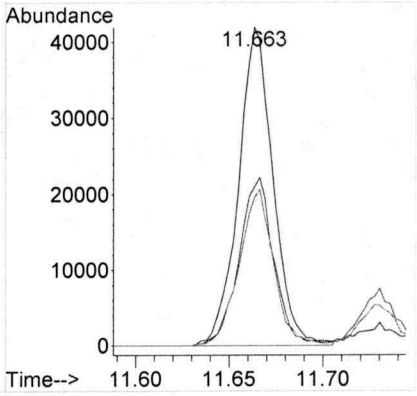


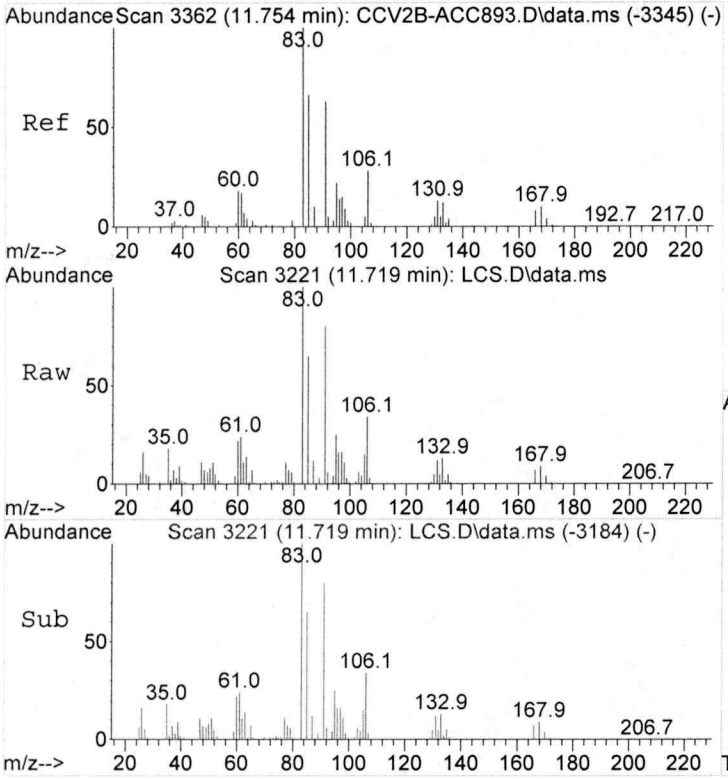


#68
Styrene
Concen: 7.814 ppbV
RT: 11.663 min Scan# 3201
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:104 Resp: 53717

Ion	Ratio	Lower	Upper
104	100		
78	53.6	20.0	80.0
103	48.8	16.8	76.8

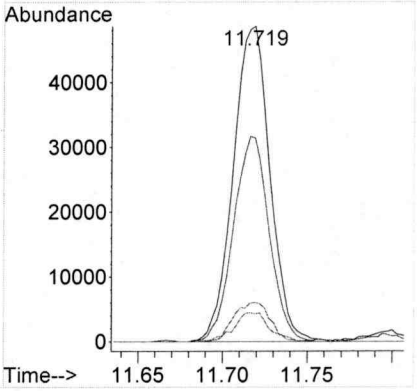


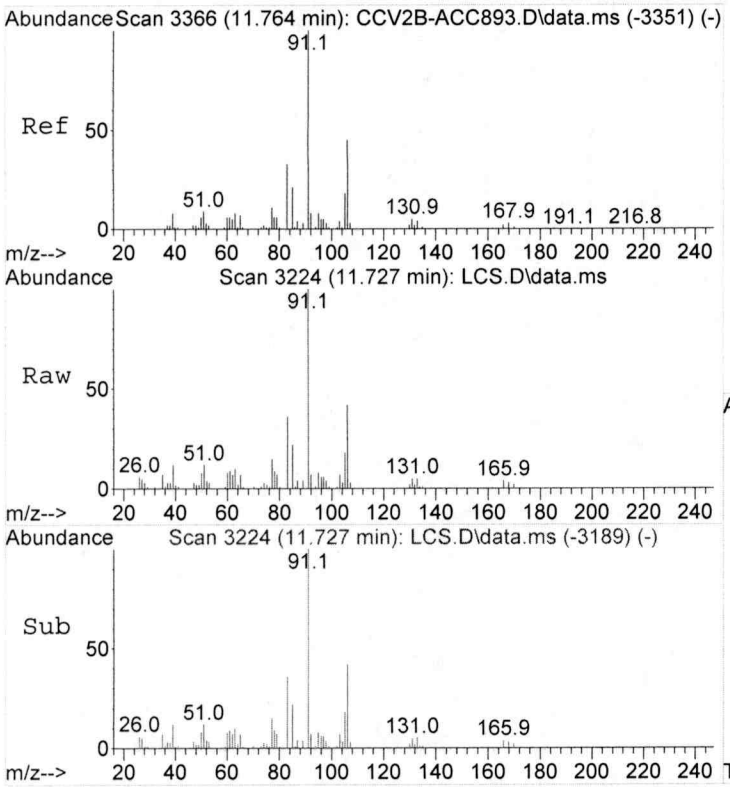


#69
1,1,2,2-Tetrachloroethane
Concen: 7.822 ppbV
RT: 11.719 min Scan# 3221
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 83 Resp: 73370

Ion	Ratio	Lower	Upper
83	100		
85	63.3	34.8	94.8
168	8.5	0.0	38.8
131	12.8	0.0	42.5

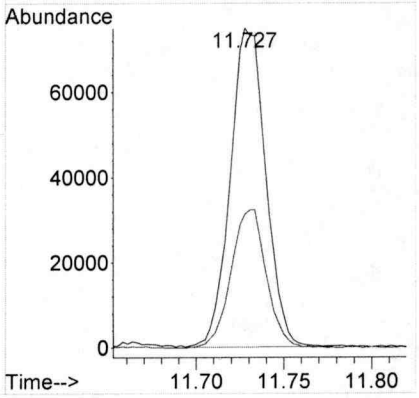


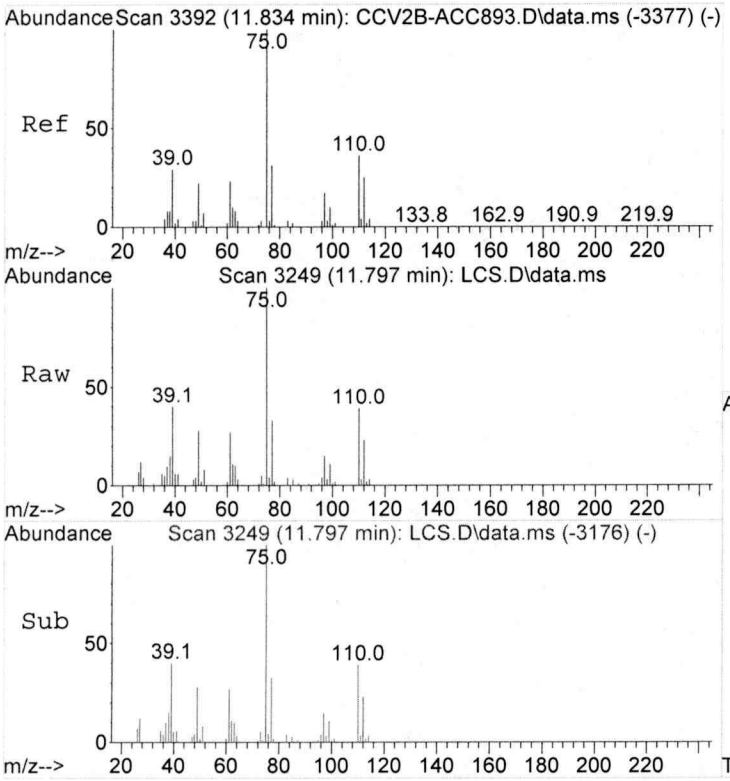


#70
o-Xylene
Concen: 8.714 ppbV
RT: 11.727 min Scan# 3224
Delta R.T. -0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 91 Resp: 104998

Ion	Ratio	Lower	Upper
91	100		
106	43.3	13.1	73.1

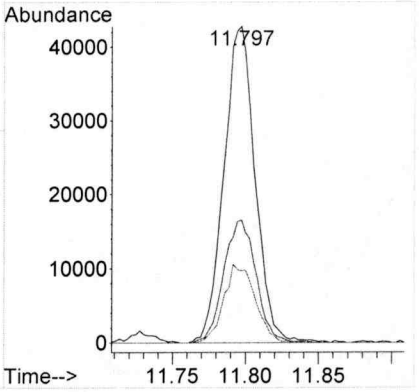


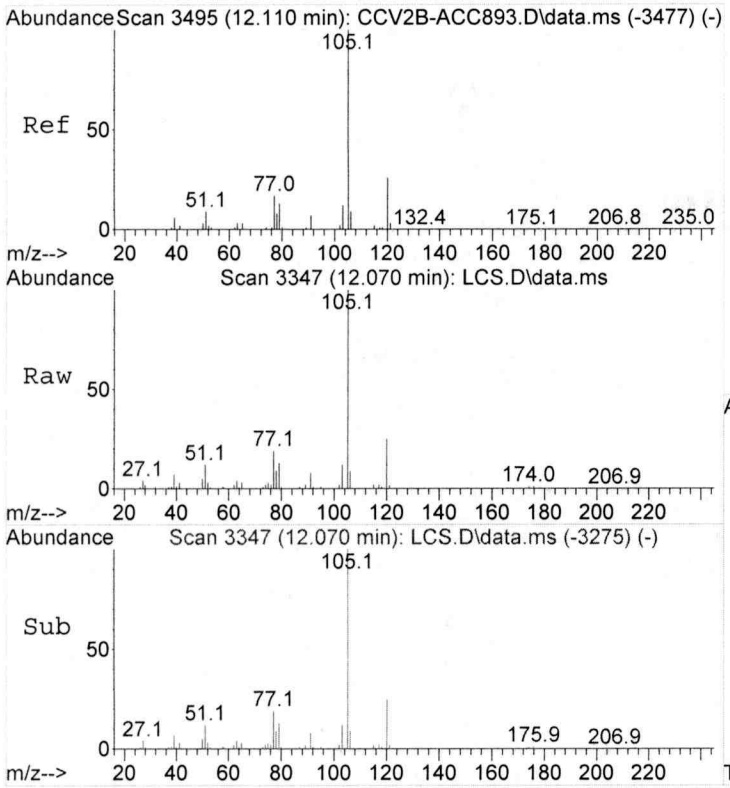


#71
1,2,3-Trichloropropane
Concen: 8.045 ppbV
RT: 11.797 min Scan# 3249
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 75 Resp: 63538

Ion	Ratio	Lower	Upper
75	100		
110	39.9	19.4	59.4
112	24.8	5.5	45.5

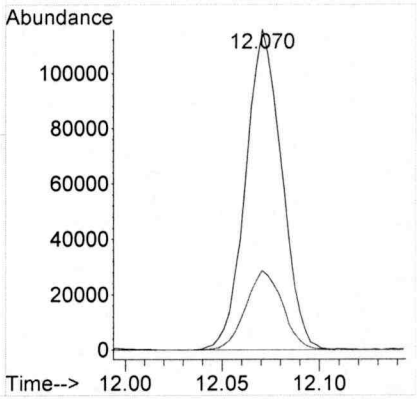


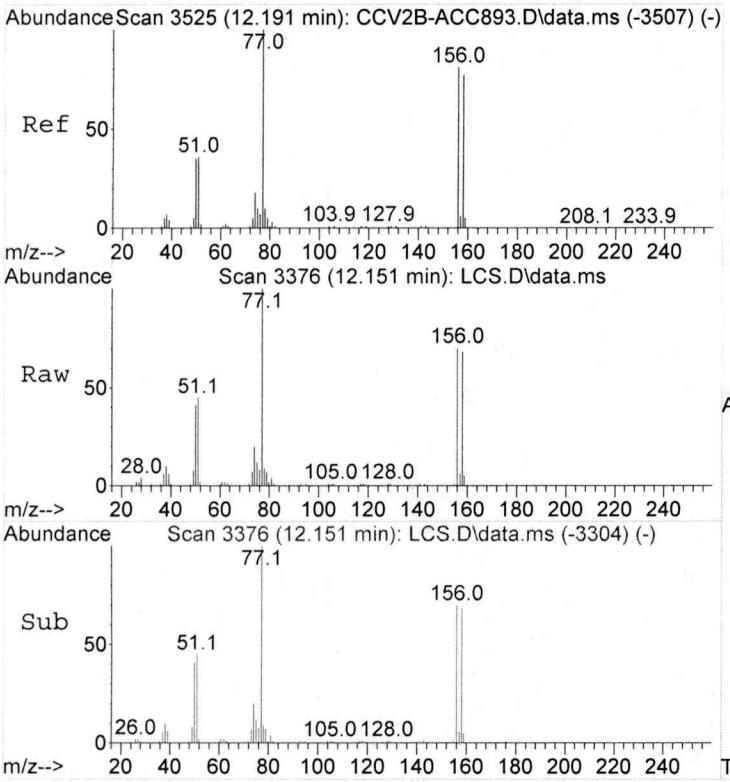


#73
Isopropylbenzene
Concen: 8.180 ppbV
RT: 12.070 min Scan# 3347
Delta R.T. 0.000 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:105 Resp: 149110

Ion	Ratio	Lower	Upper
105	100		
120	25.1	5.0	45.0

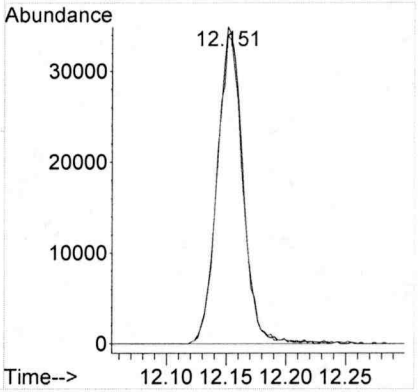


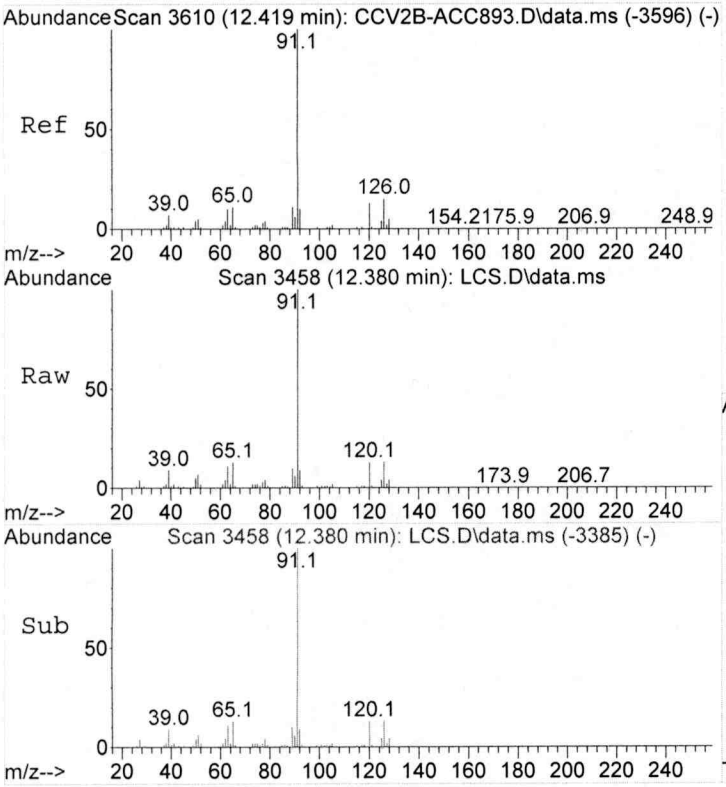


#74
Bromobenzene
Concen: 7.641 ppbV
RT: 12.151 min Scan# 3376
Delta R.T. 0.000 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:156 Resp: 52475

Ion	Ratio	Lower	Upper
156	100		
158	96.0	78.1	118.1

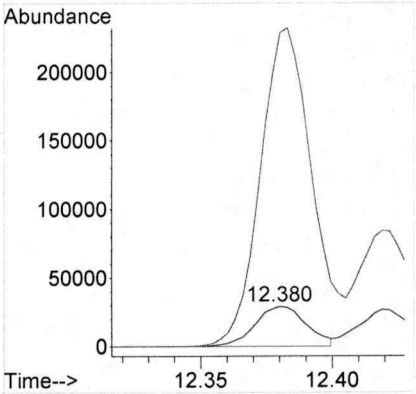


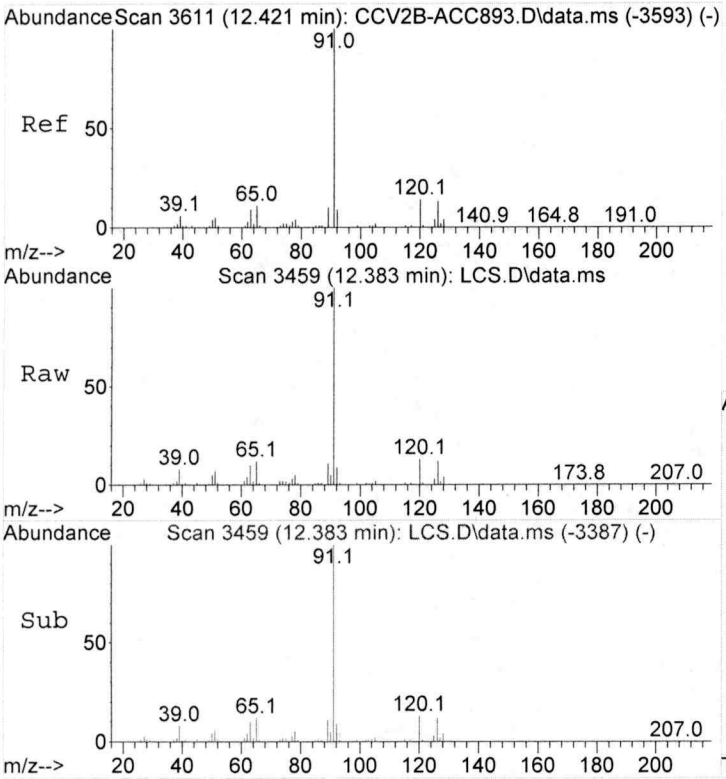


#75
2-Chlorotoluene
Concen: 8.047 ppbV
RT: 12.380 min Scan# 3458
Delta R.T. 0.004 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:126 Resp: 39634

Ion	Ratio	Lower	Upper
126	100		
91	805.7	760.9	800.9#

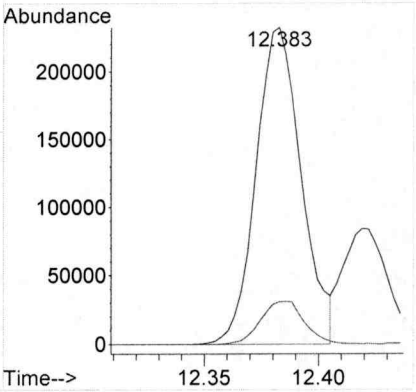


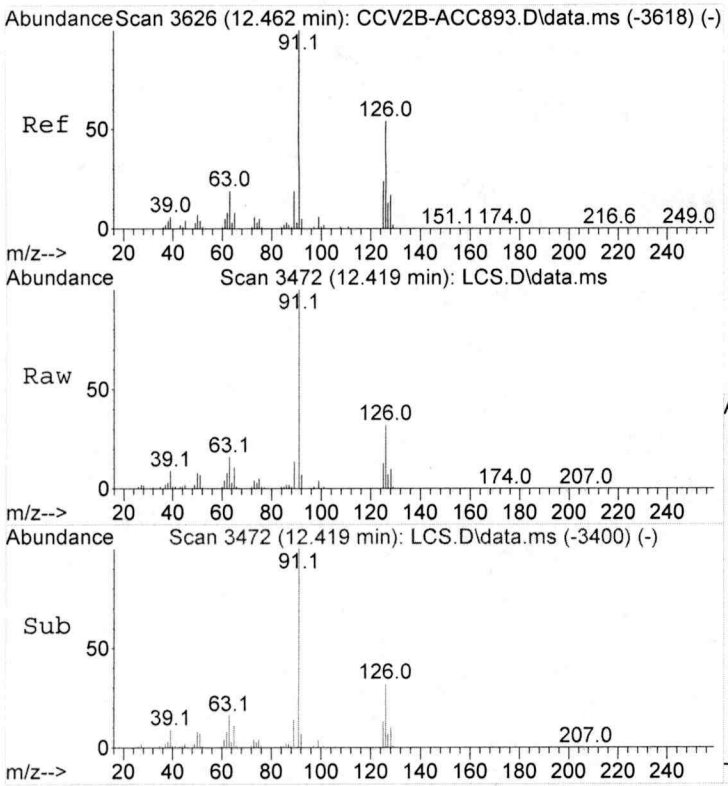


#76
n-Propylbenzene
Concen: 8.553 ppbV
RT: 12.383 min Scan# 3459
Delta R.T. 0.002 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 91 Resp: 319342

Ion	Ratio	Lower	Upper
91	100		
120	13.1	0.0	33.8

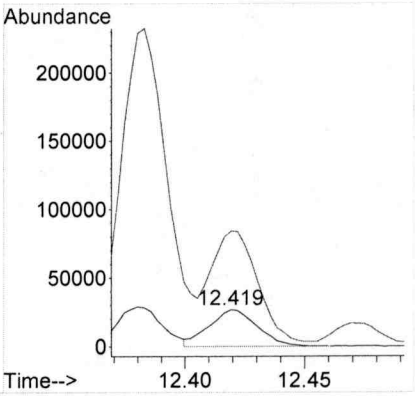


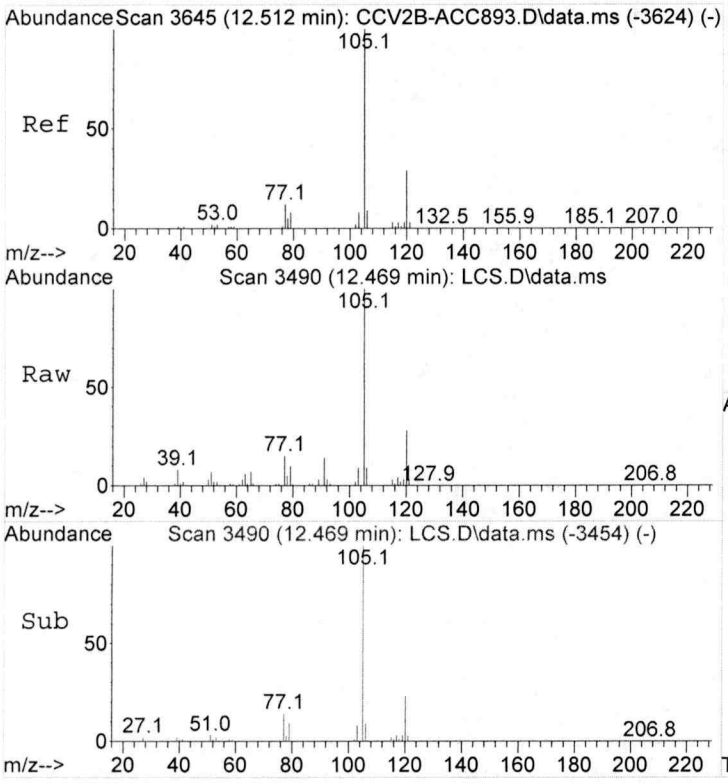


#77
4-Chlorotoluene
Concen: 7.998 ppbV
RT: 12.419 min Scan# 3472
Delta R.T. -0.000 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:126 Resp: 37329

Ion	Ratio	Lower	Upper
126	100		
91	312.7	266.3	306.3#

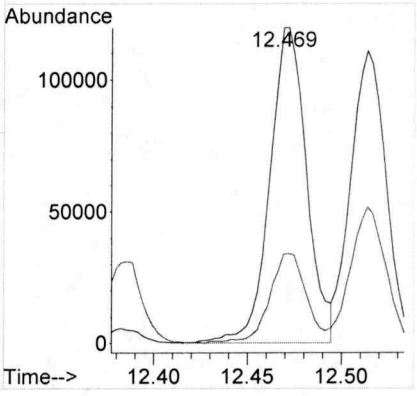


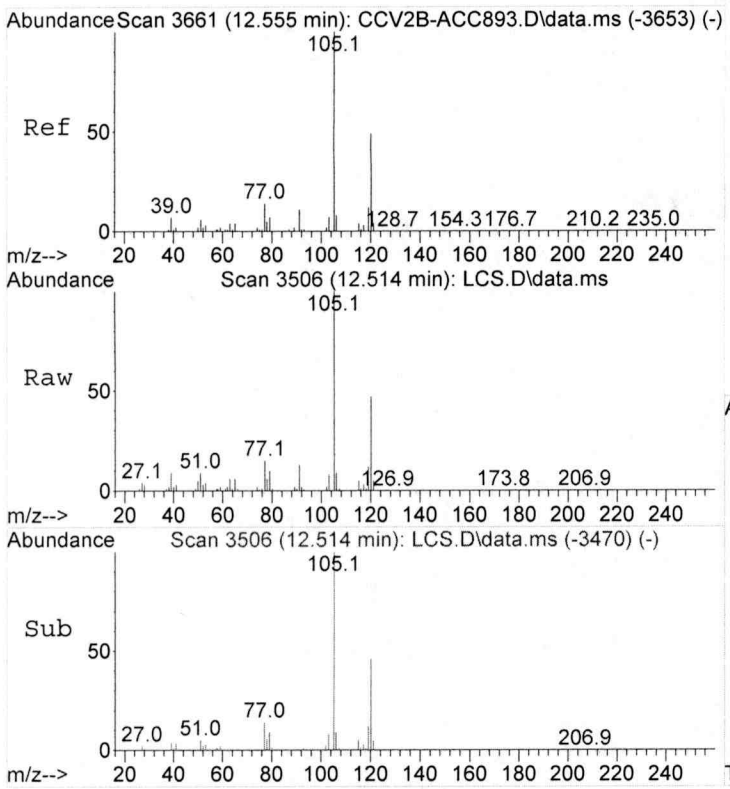


#78
4-Ethyltoluene
Concen: 8.608 ppbV
RT: 12.469 min Scan# 3490
Delta R.T. -0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:105 Resp: 162983

Ion	Ratio	Lower	Upper
105	100		
120	28.3	0.0	57.7

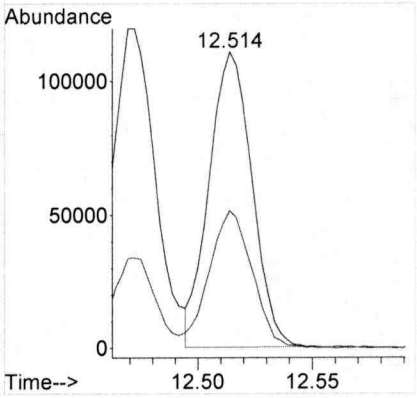


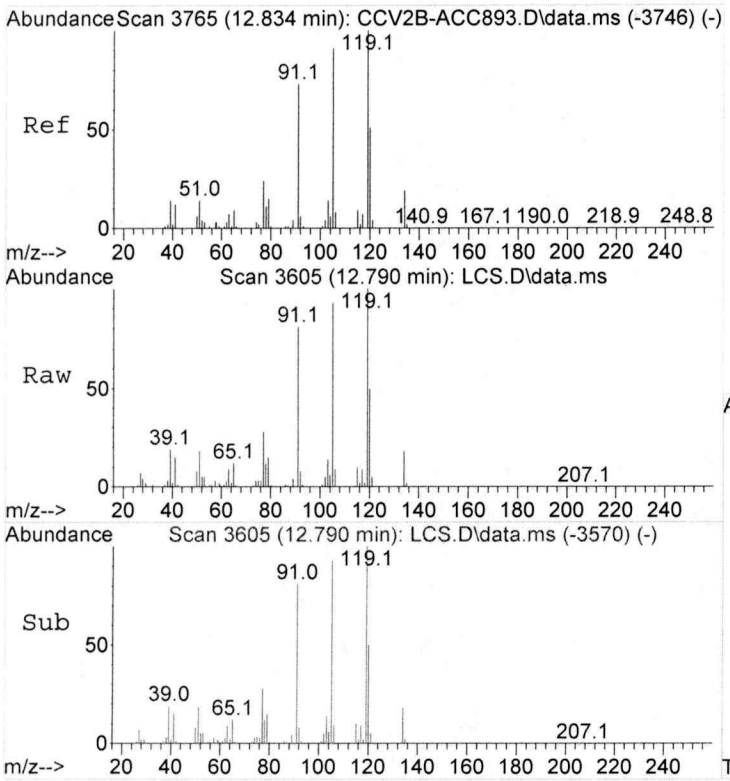


#79
1,3,5-Trimethylbenzene
Concen: 8.452 ppbV
RT: 12.514 min Scan# 3506
Delta R.T. 0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:105 Resp: 143715

Ion	Ratio	Lower	Upper
105	100		
120	47.2	17.0	77.0

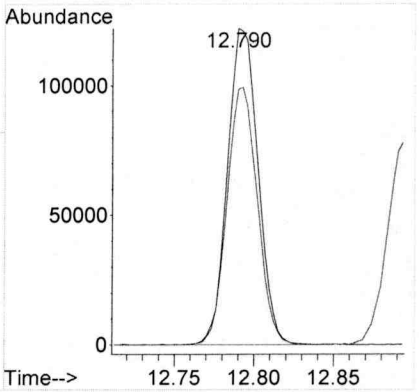


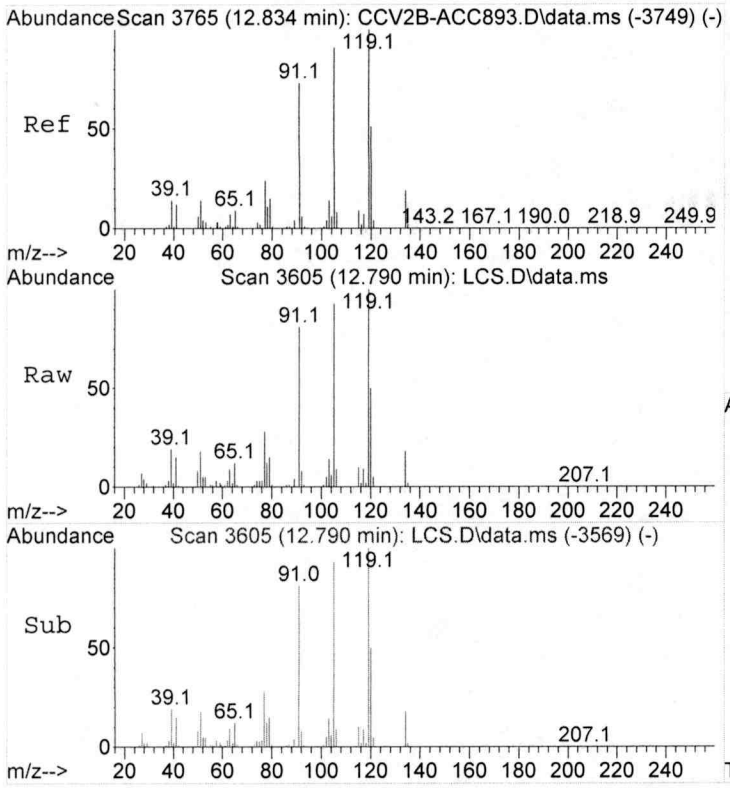


#80
tert-Butylbenzene
Concen: 8.421 ppbV
RT: 12.790 min Scan# 3605
Delta R.T. -0.002 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:119 Resp: 162834

Ion	Ratio	Lower	Upper
119	100		
91	81.1	61.8	92.8

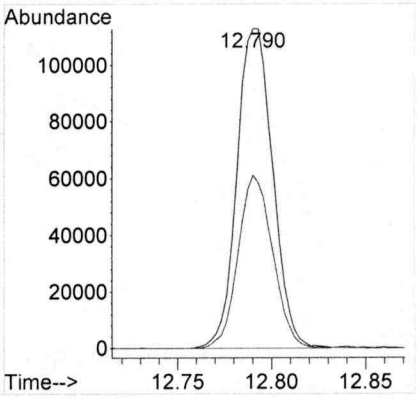


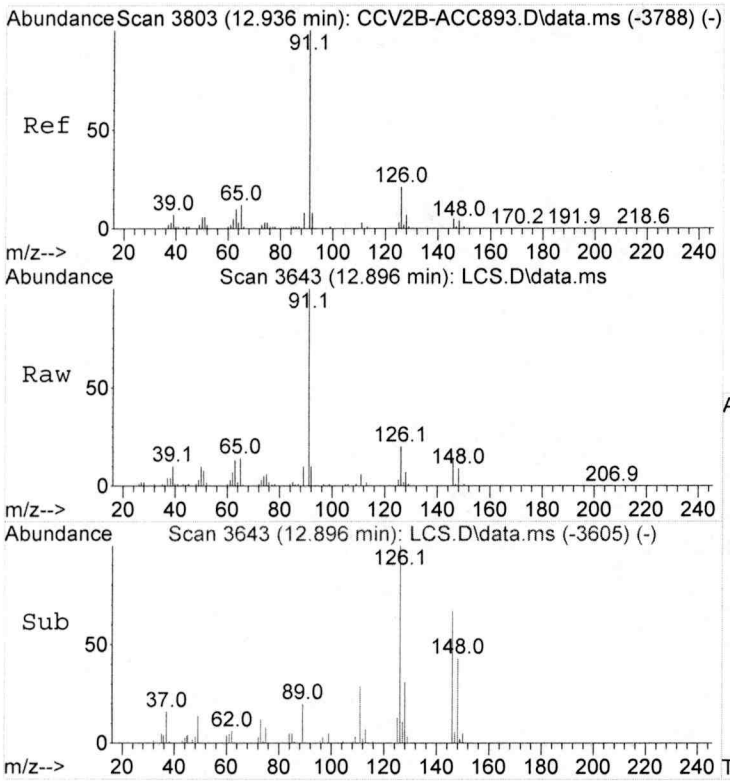


#81
1,2,4-Trimethylbenzene
Concen: 8.400 ppbV
RT: 12.790 min Scan# 3605
Delta R.T. 0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:105 Resp: 149250

Ion	Ratio	Lower	Upper
105	100		
120	52.4	22.2	82.2

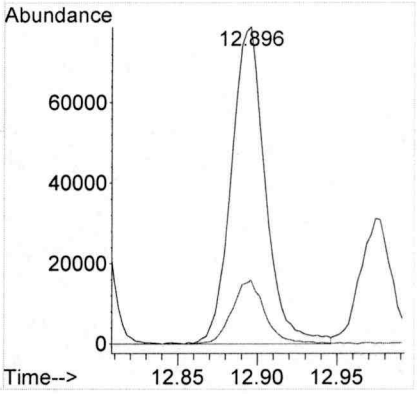


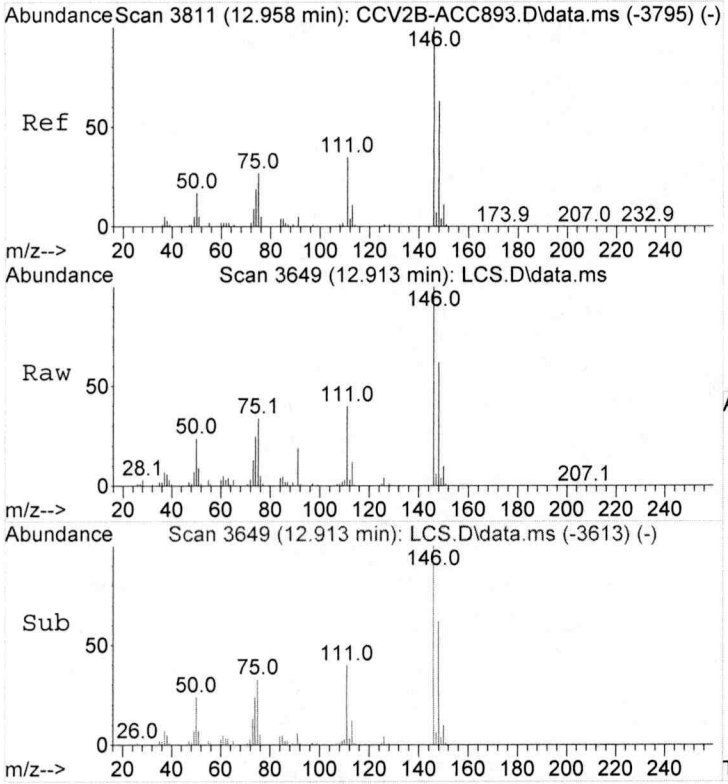


#82
Benzyl Chloride
Concen: 7.875 ppbV
RT: 12.896 min Scan# 3643
Delta R.T. 0.005 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 91 Resp: 117452

Ion	Ratio	Lower	Upper
91	100		
126	19.4	0.0	49.9

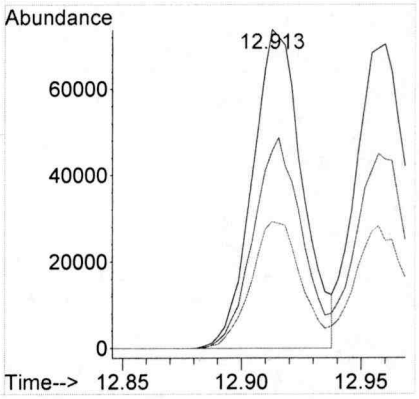


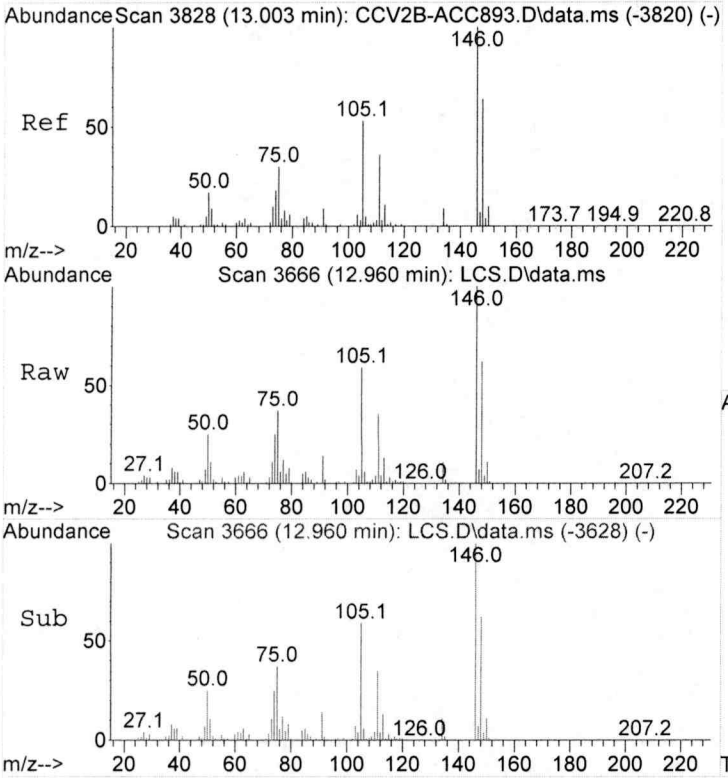


#83
1,3-Dichlorobenzene
Concen: 7.969 ppbV
RT: 12.913 min Scan# 3649
Delta R.T. 0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:146 Resp: 107401

Ion	Ratio	Lower	Upper
146	100		
148	63.2	34.5	94.5
111	39.5	9.7	69.7

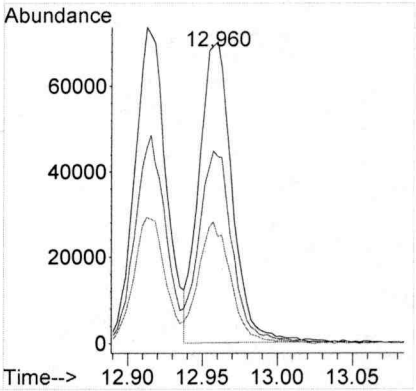


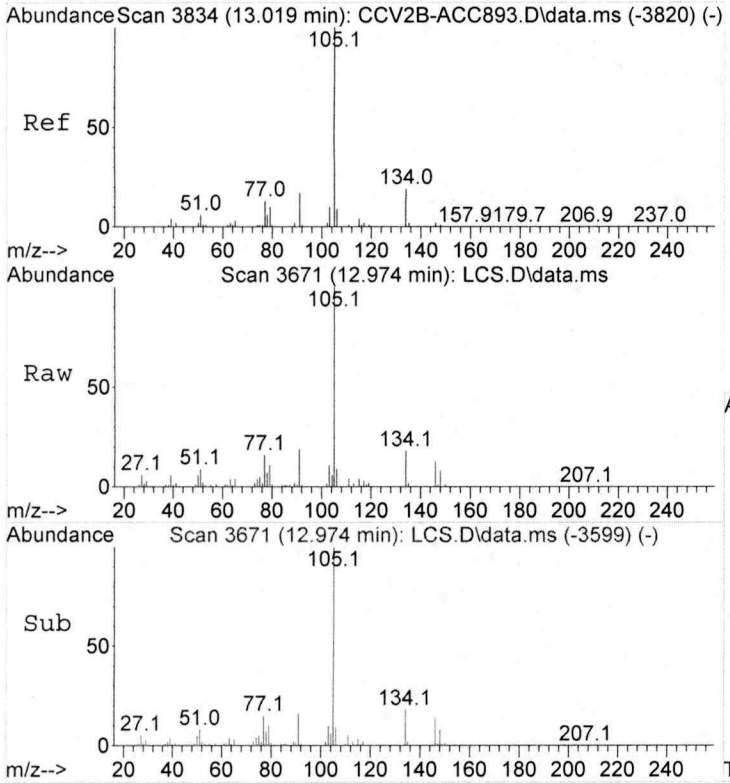


#84
1,4-Dichlorobenzene
Concen: 7.908 ppbV
RT: 12.960 min Scan# 3666
Delta R.T. 0.005 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:146 Resp: 106745

Ion	Ratio	Lower	Upper
146	100		
148	63.8	35.4	95.4
111	38.3	7.0	67.0

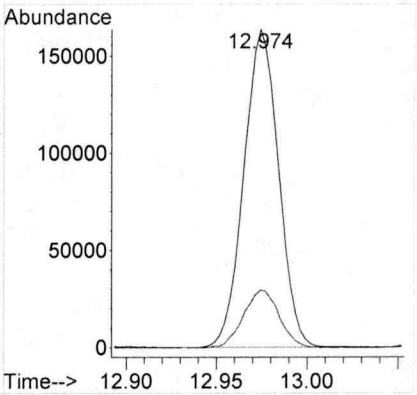


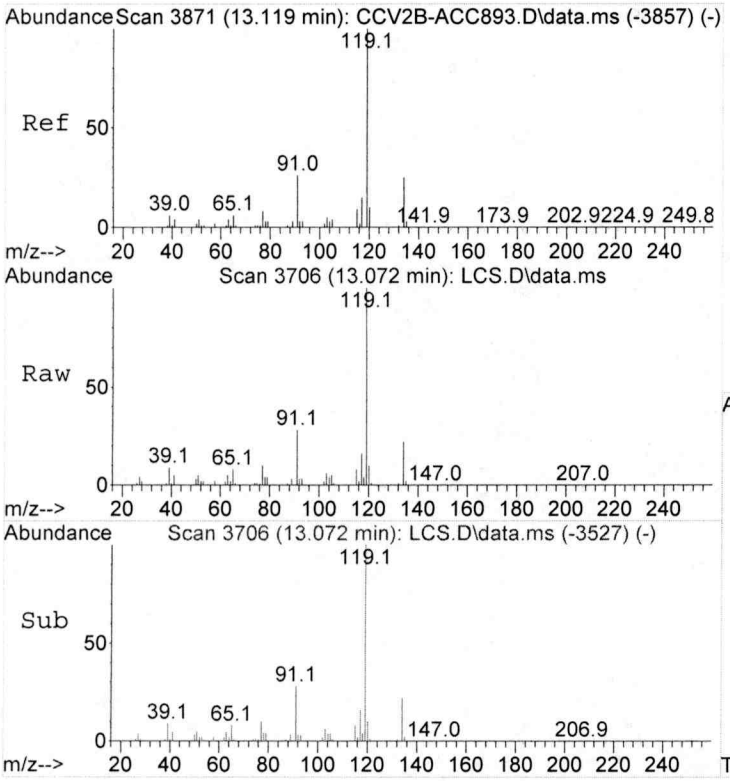


#85
sec-Butylbenzene
Concen: 8.572 ppbV
RT: 12.974 min Scan# 3671
Delta R.T. -0.000 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:105 Resp: 217544

Ion	Ratio	Lower	Upper
105	100		
134	18.6	0.0	39.4

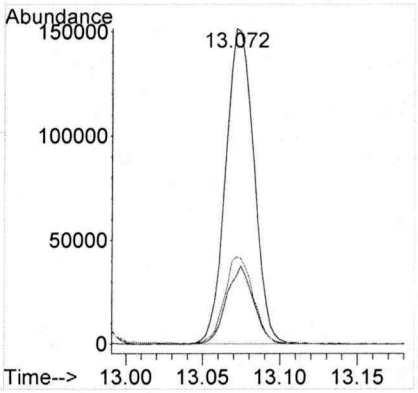


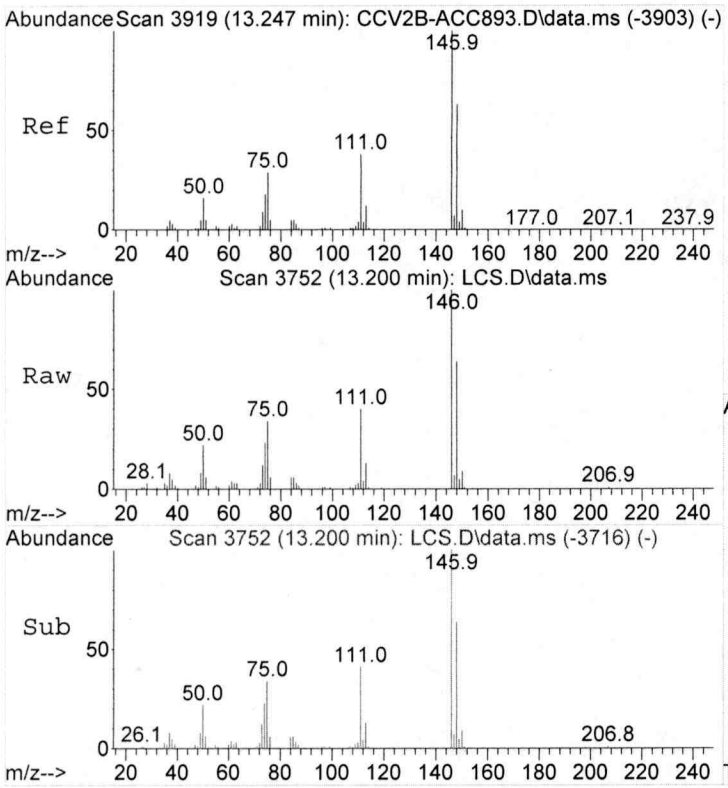


#86
p-Isopropyltoluene
Concen: 8.961 ppbV
RT: 13.072 min Scan# 3706
Delta R.T. -0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:119 Resp: 192774

Ion	Ratio	Lower	Upper
119	100		
134	23.9	19.7	29.5
91	28.2	21.4	32.0

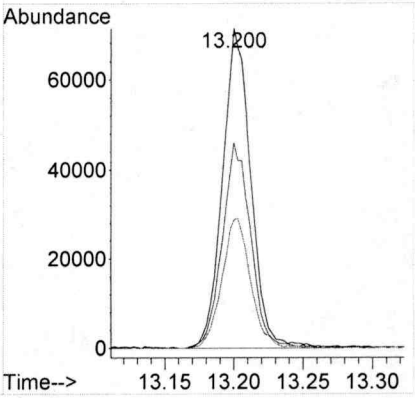


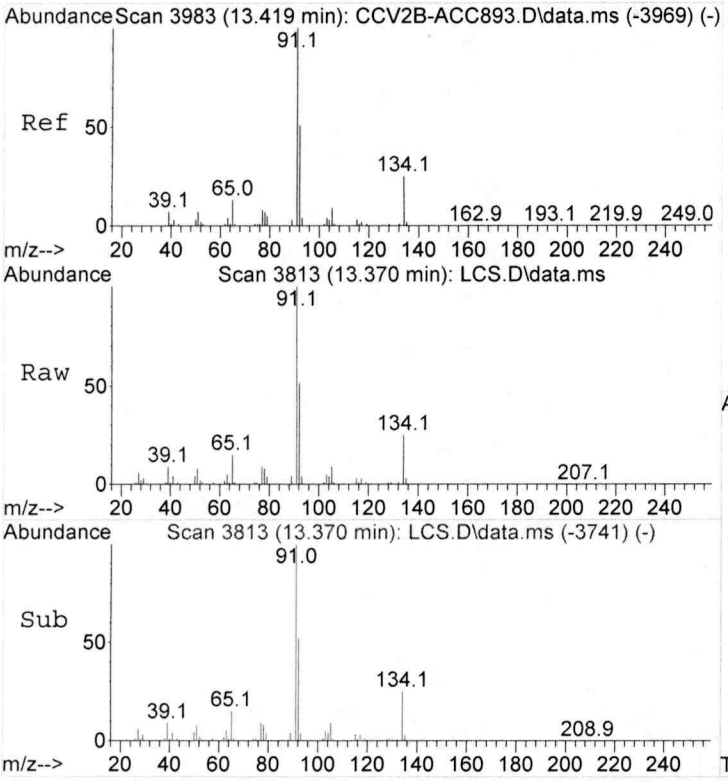


#87
1,2-Dichlorobenzene
Concen: 7.983 ppbV
RT: 13.200 min Scan# 3752
Delta R.T. 0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:146 Resp: 102025

Ion	Ratio	Lower	Upper
146	100		
148	64.3	33.9	93.9
111	40.9	10.1	70.1

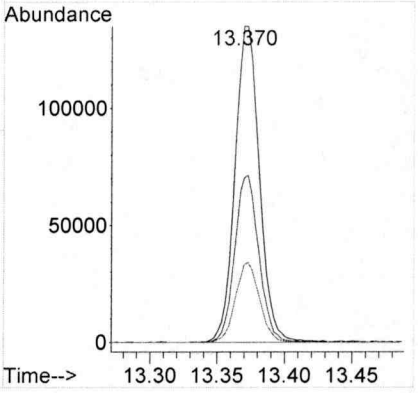


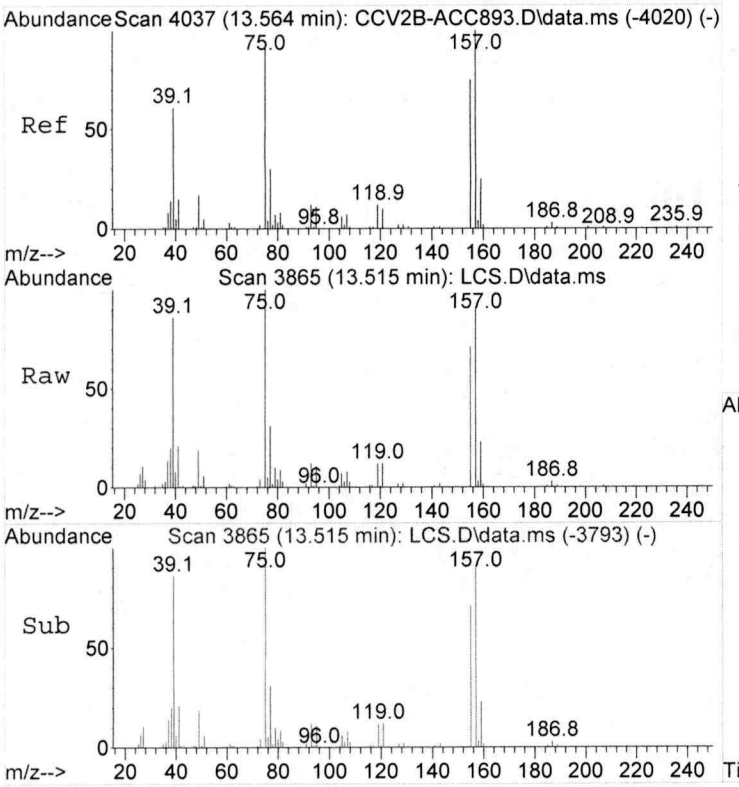


#88
n-Butylbenzene
Concen: 9.269 ppbV
RT: 13.370 min Scan# 3813
Delta R.T. 0.002 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 91 Resp: 170708

Ion	Ratio	Lower	Upper
91	100		
92	52.1	33.7	73.7
134	24.8	5.2	45.2

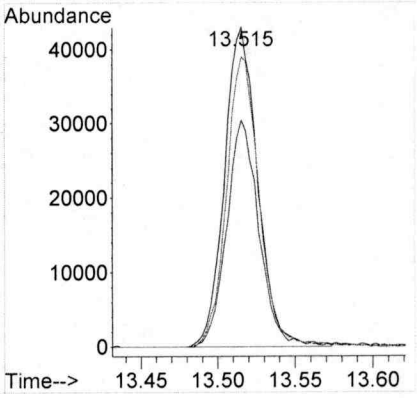


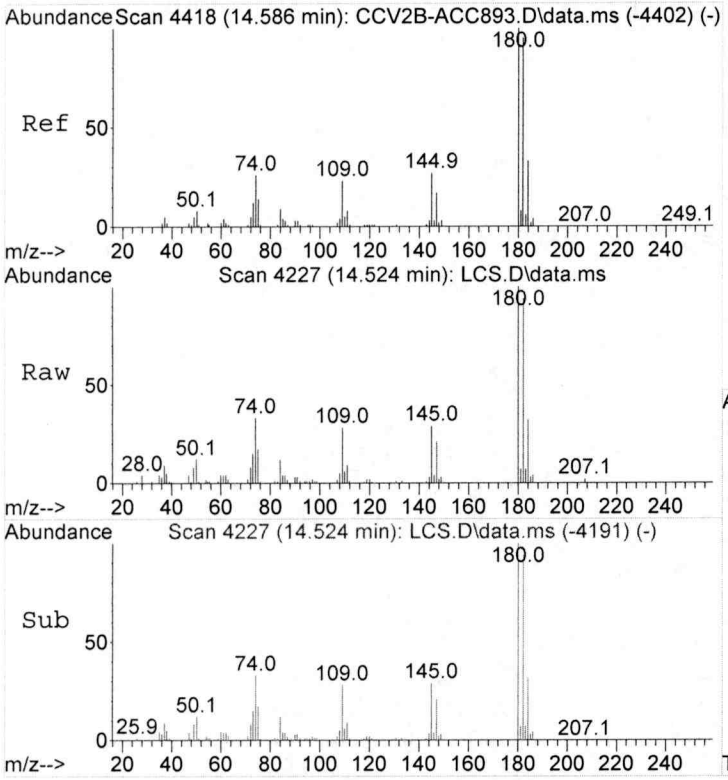


#89
1,2 Dibromo-3-chloropropane
Concen: 8.516 ppbV
RT: 13.515 min Scan# 3865
Delta R.T. 0.002 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion: 75 Resp: 64084

Ion	Ratio	Lower	Upper
75	100		
155	68.4	53.8	93.8
157	88.3	77.6	117.6

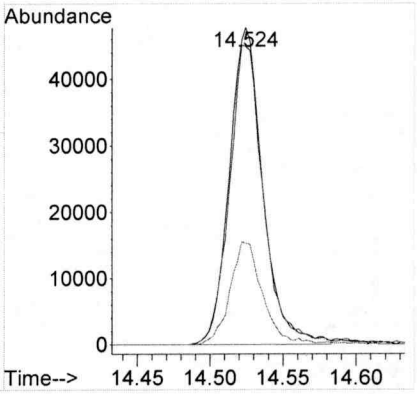


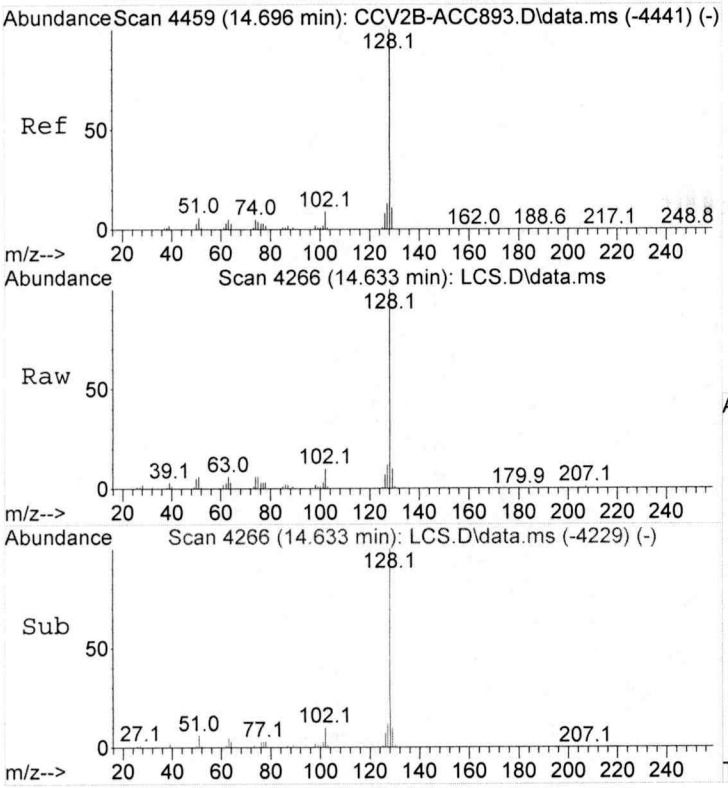


#90
1,2,4-Trichlorobenzene
Concen: 8.267 ppbV
RT: 14.524 min Scan# 4227
Delta R.T. 0.000 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:180 Resp: 76414

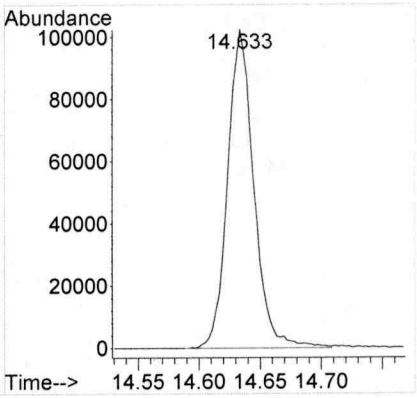
Ion	Ratio	Lower	Upper
180	100		
182	95.2	65.1	125.1
184	31.3	0.3	60.3

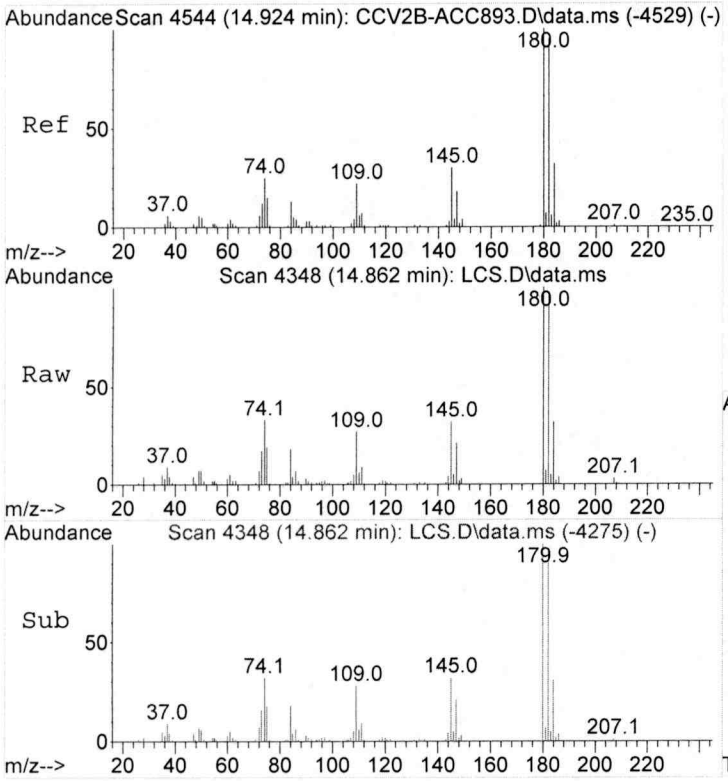




#91
Naphthalene
Concen: 8.653 ppbV
RT: 14.633 min Scan# 4266
Delta R.T. 0.002 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:128 Resp: 151947

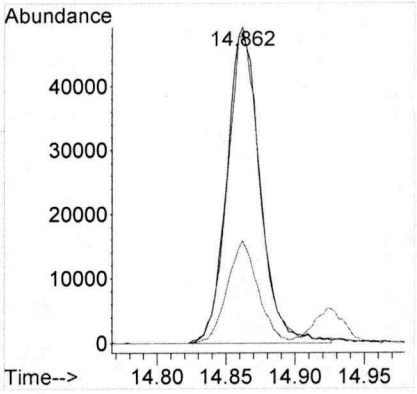


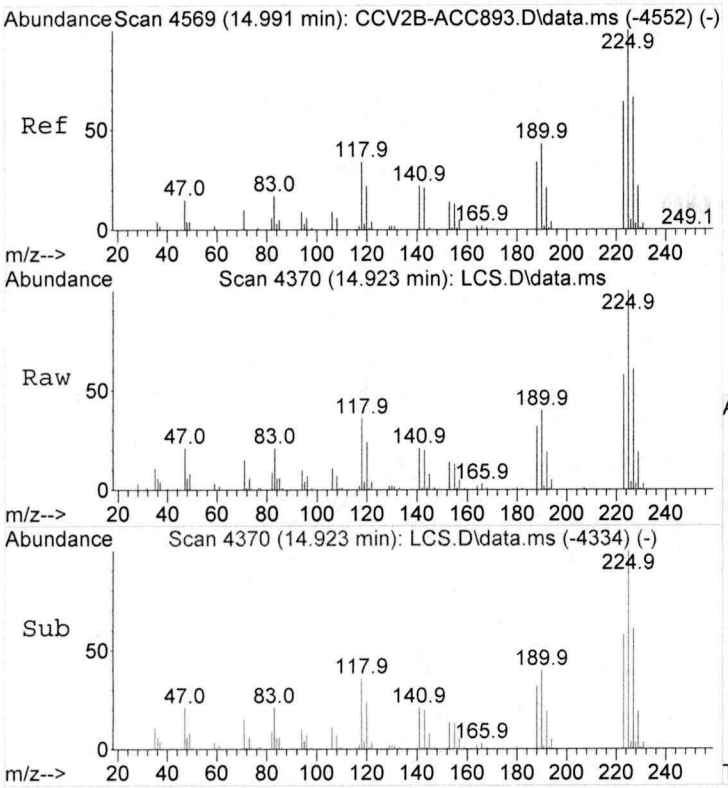


#92
1,2,3-Trichlorobenzene
Concen: 9.537 ppbV
RT: 14.862 min Scan# 4348
Delta R.T. 0.003 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:180 Resp: 82006

Ion	Ratio	Lower	Upper
180	100		
182	95.7	78.5	118.5
145	30.1	9.4	49.4

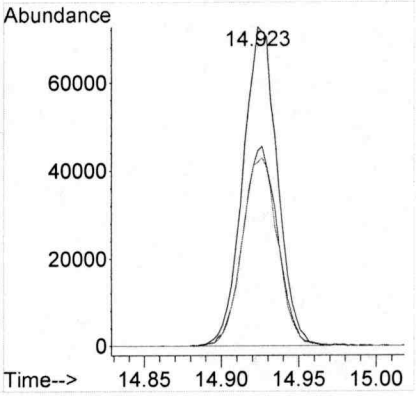




#93
Hexachlorobutadiene
Concen: 9.848 ppbV
RT: 14.923 min Scan# 4370
Delta R.T. -0.001 min
Lab File: LCS.D
Acq: 19 Nov 2013 7:30 pm

Tgt Ion:225 Resp: 113031

Ion	Ratio	Lower	Upper
225	100		
227	63.6	33.4	93.4
223	61.0	31.0	91.0



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : LCSD.D
Acq On : 19 Nov 2013 8:04 pm
Operator : slc
Misc :
ALS Vial : 12 Sample Multiplier: 5

Quant Time: Nov 20 14:23:08 2013
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : EK31912-BSD1 Inst : GCMS#12

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.369	130	112505	50.00	ppbV	0.00
41) Difluorobenzene	8.618	114	444878	50.00	ppbV	0.00
63) Chlorobenzene-d5	11.131	82	228271	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.887	65	241792	58.57	ppbV	0.00
Spiked Amount 50.000			Recovery	=	117.14%	
55) Toluene-d8	10.065	98	423159	51.09	ppbV	0.00
Spiked Amount 50.000			Recovery	=	102.18%	
72) 4-Bromofluorobenzene	12.001	95	298966	54.14	ppbV	0.00
Spiked Amount 50.000			Recovery	=	108.28%	
Target Compounds						Qvalue
2) 1,1,1-trifluoroethane	2.896	65	11499	14.079	ppbV	97
3) 1,1,1,2-Tetrafluoroethane	2.938	83	27970	12.553	ppbV	95
4) 1,1,-Difluoroethane	3.002	51	20654	10.890	ppbV	95
5) Propene	3.074	41	9368	9.878	ppbV	97
6) Dichlorodifluoromethane	3.144	85	72928	11.331	ppbV	99
7) Chloromethane	3.306	50	14655	9.067	ppbV	97
8) Dichlorotetrafluoroethane	3.412	85	72658	9.823	ppbV	98
9) Vinyl Chloride	3.540	62	16711	8.621	ppbV	98
10) 1,3-Butadiene	3.699	54	11144	8.422	ppbV	93
11) Bromomethane	4.003	94	20351	9.219	ppbV	95
12) Chloroethane	4.209	64	9707	9.662	ppbV	94
13) Ethanol	4.376	45	6330m	7.012	ppbV	
14) Acetone	4.867	43	38787	8.056	ppbV	91
15) Trichlorofluoromethane	5.023	101	95759	9.533	ppbV	99
16) Isopropanol	5.104	45	32094	7.047	ppbV #	100
17) 1,1-Dichloroethene	5.617	61	39251	8.788	ppbV	98
18) tert-Butanol	5.659	59	50310	7.772	ppbV	85
19) Methylene chloride	5.707	49	28393	9.561	ppbV	95
20) 1,1,2-Trichlorotrifluo...	5.955	101	54963	8.452	ppbV	98
21) Carbon Disulfide	5.994	76	53260	8.038	ppbV	98
22) trans-1,2-Dichloroethene	6.493	61	32824	8.299	ppbV	98
23) 1,1-Dichloroethane	6.649	63	44010	8.824	ppbV	99
24) Methyl-tert-Butyl Ether	6.711	73	61164	8.336	ppbV #	92
25) Vinyl Acetate	6.747	86	1264	2.784	ppbV #	1
26) 2-Butanone	6.950	43	41494	7.994	ppbV	98
27) cis-1,2-Dichloroethene	7.254	61	29541	8.331	ppbV	97
28) Ethyl Acetate	7.402	70	5142	9.472	ppbV	93
29) Diisopropyl Ether	7.402	45	64226	10.211	ppbV	86
30) Hexane	7.411	57	25937	9.844	ppbV	96
31) Chloroform	7.458	83	59506	9.789	ppbV	98
32) 2,2 Dichloropropane	7.494	77	56035	9.937	ppbV	98
33) Tetrahydrofuran	7.762	71	7795	9.737	ppbV	88
34) Ethyl-tert-Butyl Ether	7.765	59	59047	10.445	ppbV	99
36) 1,2-Dichloroethane	7.957	62	47440	10.251	ppbV	96
37) 1,1,1-Trichloroethane	8.130	97	70201	10.176	ppbV	97
38) 1,1-Dichloropropene	8.328	110	9000	8.706	ppbV	98
39) Benzene	8.426	78	54379	9.251	ppbV	95
40) Carbon Tetrachloride	8.518	117	80049	10.137	ppbV	99
42) Cyclohexane	8.598	84	25036	8.642	ppbV	88

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : LCSD.D
Acq On : 19 Nov 2013 8:04 pm
Operator : slc
Misc :
ALS Vial : 12 Sample Multiplier: 5

Quant Time: Nov 20 14:23:08 2013
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : EK31912-BSD1 Inst : GCMS#12

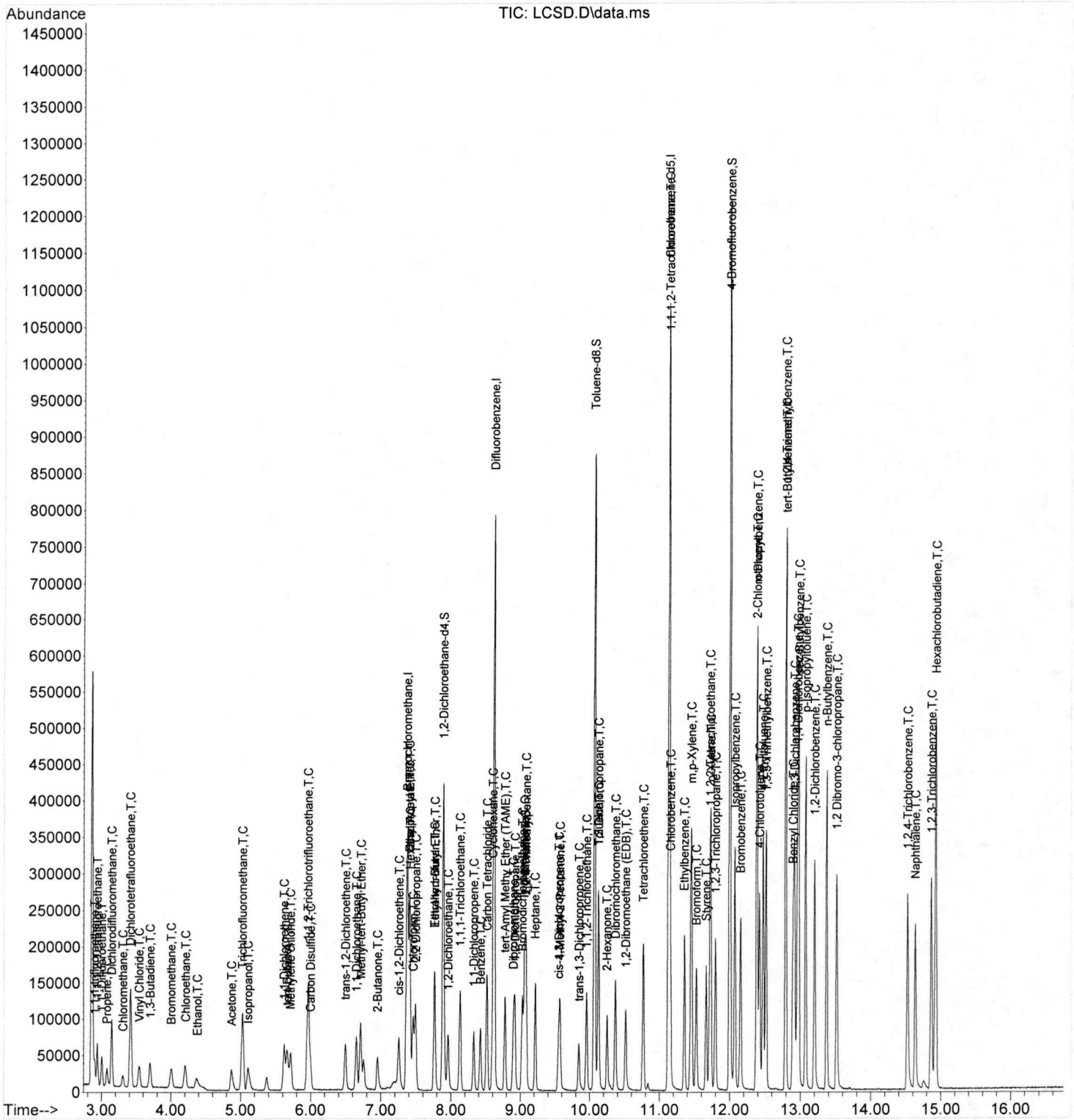
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) tert-Amyl Methy Ether ...	8.777	73	53403	8.956 ppbV	91
44) Dibromomethane	8.900	93	28883	8.421 ppbV	99
45) 1,2-Dichloropropane	8.922	63	19952	8.705 ppbV	95
46) Bromodichloromethane	9.028	83	64935	9.005 ppbV	96
47) 1,4-Dioxane	9.067	88	12693	7.593 ppbV	91
48) Trichloroethene	9.056	95	32418	8.514 ppbV	93
49) 2,2,4 Trimethylpentane	9.081	57	97239	9.887 ppbV #	87
50) Heptane	9.212	71	16650	8.981 ppbV	95
51) cis-1,3-Dichloropropene	9.552	75	31092	8.316 ppbV	98
52) 4-Methyl-2-Pentanone	9.572	43	47394	9.373 ppbV	96
53) trans-1,3-Dichloropropene	9.845	75	28395	7.819 ppbV	98
54) 1,1,2-Trichloroethane	9.954	97	28197	8.126 ppbV	95
56) Toluene	10.124	91	83887	7.930 ppbV	99
57) 1,3 Dichloropropane	10.124	76	42924	8.637 ppbV	97
58) 2-Hexanone	10.247	43	46496	8.754 ppbV	93
59) Dibromochloromethane	10.369	129	65456	8.218 ppbV	99
60) 1,2-Dibromoethane (EDB)	10.517	107	43966	7.827 ppbV	95
61) Tetrachloroethene	10.771	166	47098	7.585 ppbV	100
62) 1,1,1,2-Tetrachloroethane	11.136	131	52192	7.706 ppbV	98
64) Chlorobenzene	11.156	112	74880	7.593 ppbV	97
65) Ethylbenzene	11.354	91	107827	8.626 ppbV	100
66) m,p-Xylene	11.454	91	206223	17.833 ppbV	97
67) Bromoform	11.527	173	72250	7.686 ppbV	100
68) Styrene	11.666	104	58062	8.055 ppbV	97
69) 1,1,2,2-Tetrachloroethane	11.719	83	74156	7.539 ppbV	99
70) o-Xylene	11.730	91	110428	8.741 ppbV	100
71) 1,2,3-Trichloropropane	11.797	75	65489	7.908 ppbV	99
73) Isopropylbenzene	12.073	105	156507	8.189 ppbV	99
74) Bromobenzene	12.154	156	54865	7.619 ppbV	100
75) 2-Chlorotoluene	12.380	126	42202	8.171 ppbV	99
76) n-Propylbenzene	12.383	91	328131	8.381 ppbV	99
77) 4-Chlorotoluene	12.422	126	38979	7.965 ppbV #	83
78) 4-Ethyltoluene	12.472	105	170829	8.604 ppbV	99
79) 1,3,5-Trimethylbenzene	12.517	105	155211	8.706 ppbV	96
80) tert-Butylbenzene	12.795	119	169579	8.363 ppbV	97
81) 1,2,4-Trimethylbenzene	12.793	105	155179	8.330 ppbV	100
82) Benzyl Chloride	12.896	91	124208	7.942 ppbV	97
83) 1,3-Dichlorobenzene	12.915	146	109390	7.741 ppbV	99
84) 1,4-Dichlorobenzene	12.960	146	110130	7.781 ppbV	97
85) sec-Butylbenzene	12.977	105	224202	8.425 ppbV	99
86) p-Isopropyltoluene	13.074	119	194330	8.615 ppbV	98
87) 1,2-Dichlorobenzene	13.203	146	104221	7.777 ppbV	99
88) n-Butylbenzene	13.373	91	179186	9.278 ppbV	98
89) 1,2 Dibromo-3-chloropr...	13.515	75	67299	8.529 ppbV	93
90) 1,2,4-Trichlorobenzene	14.524	180	80800	8.337 ppbV	98
91) Naphthalene	14.636	128	161726	8.783 ppbV	100
92) 1,2,3-Trichlorobenzene	14.865	180	86553	9.600 ppbV	99
93) Hexachlorobutadiene	14.926	225	112222	9.325 ppbV	99

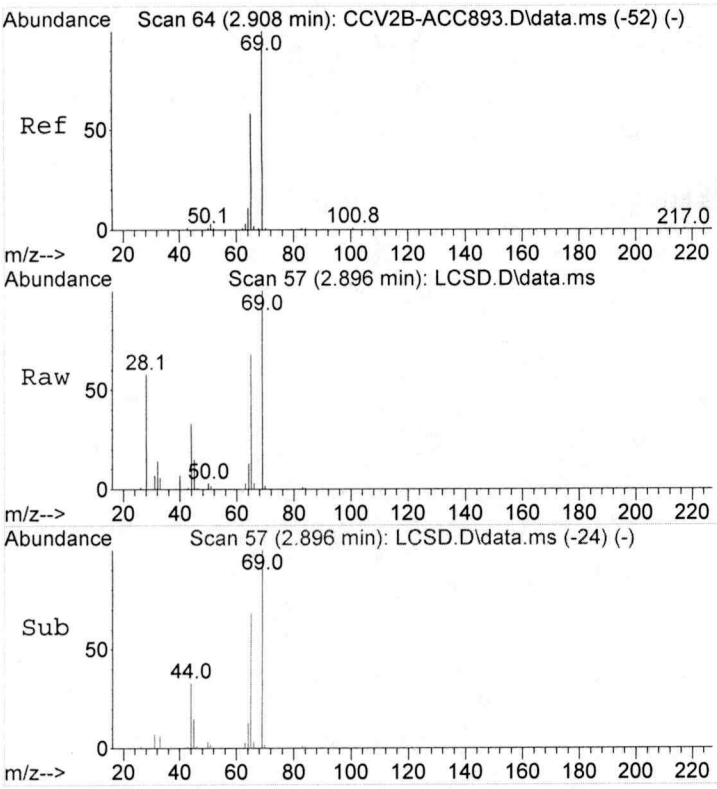
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : LCSD.D
Acq On : 19 Nov 2013 8:04 pm
Operator : slc
Misc :
ALS Vial : 12 Sample Multiplier: 5

Quant Time: Nov 20 14:23:08 2013
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Oct 24 09:35:58 2013
Sample : EK31912-BSD1 Inst : GCMS#12

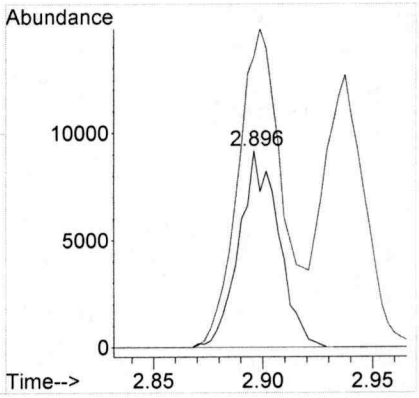


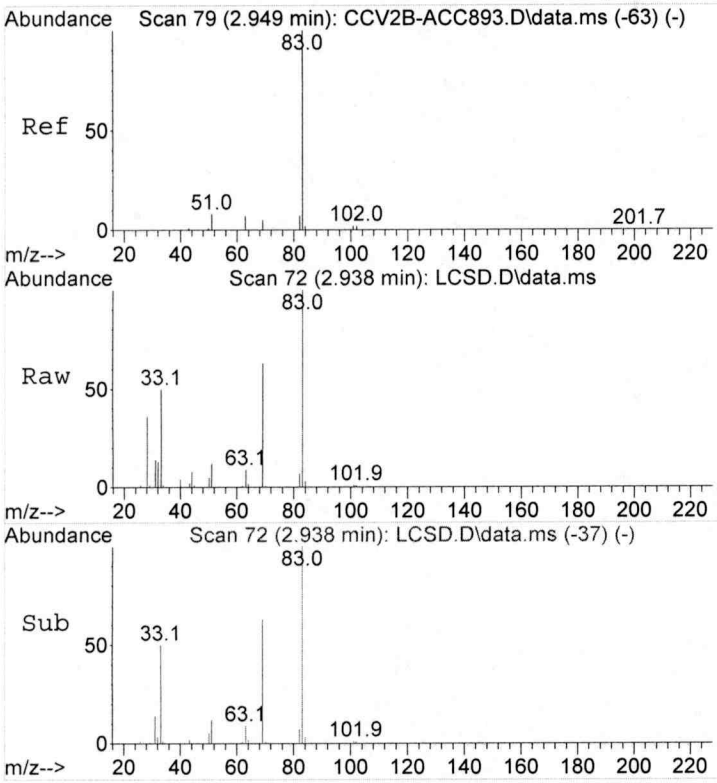


#2
1,1,1-trifluoroethane
Concen: 14.079 ppbV
RT: 2.896 min Scan# 57
Delta R.T. -0.007 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 65 Resp: 11499

Ion	Ratio	Lower	Upper
65	100		
69	182.2	158.4	198.4

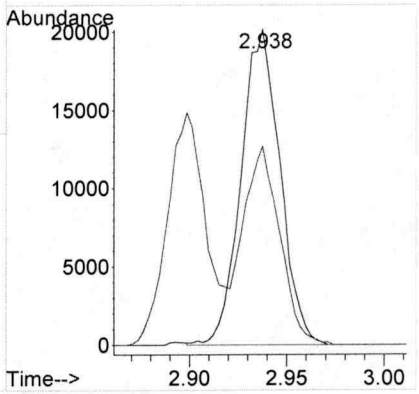


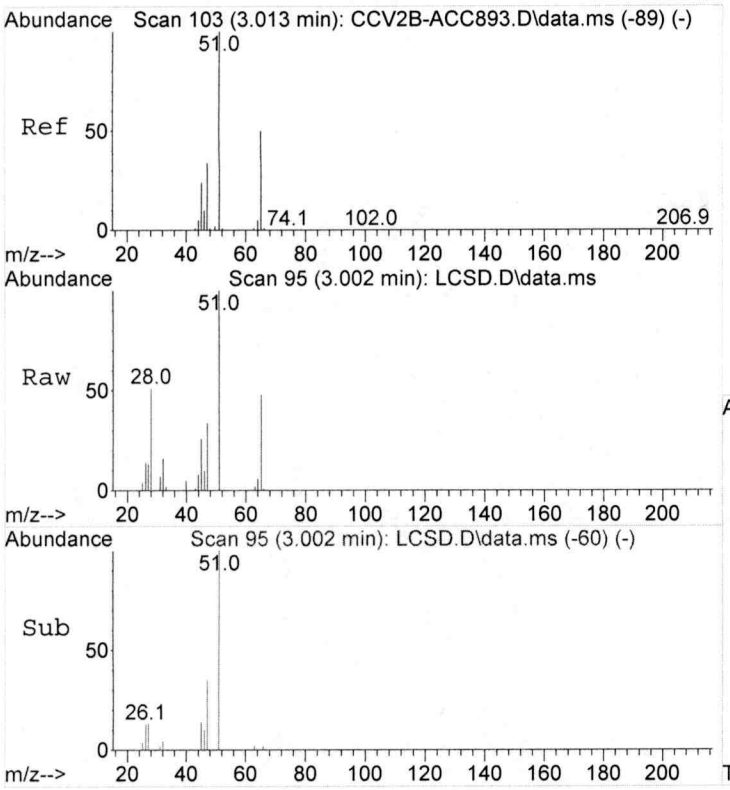


#3
1,1,1,2-Tetrafluoroethane
Concen: 12.553 ppbV
RT: 2.938 min Scan# 72
Delta R.T. -0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 83 Resp: 27970

Ion	Ratio	Lower	Upper
83	100		
69	58.6	42.6	82.6

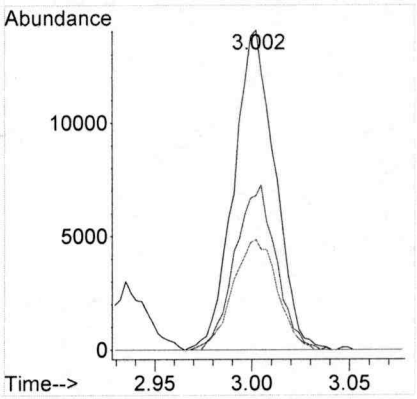


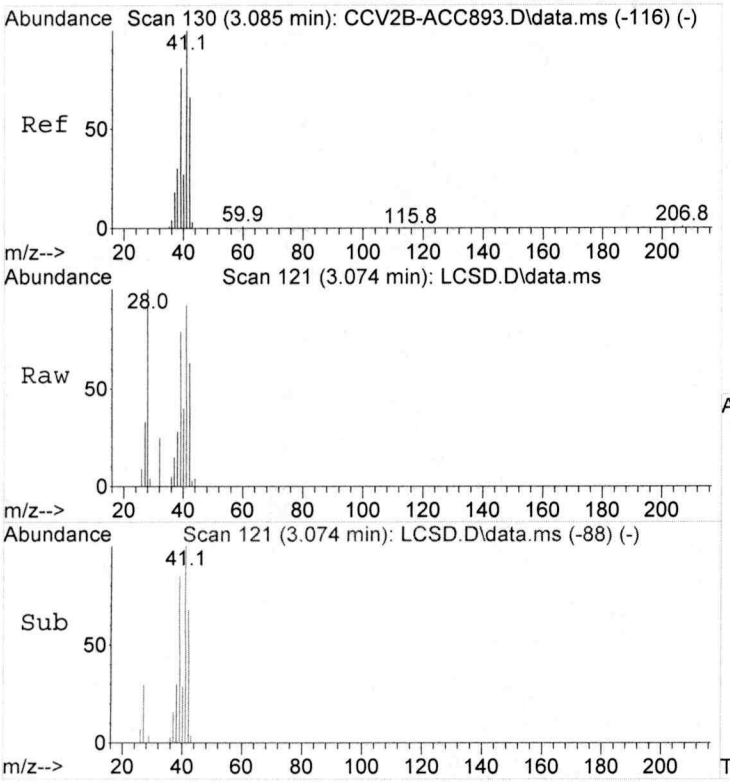


#4
1,1,-Difluoroethane
Concen: 10.890 ppbV
RT: 3.002 min Scan# 95
Delta R.T. -0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 51 Resp: 20654

Ion	Ratio	Lower	Upper
51	100		
65	51.5	25.3	85.3
47	36.9	4.4	64.4

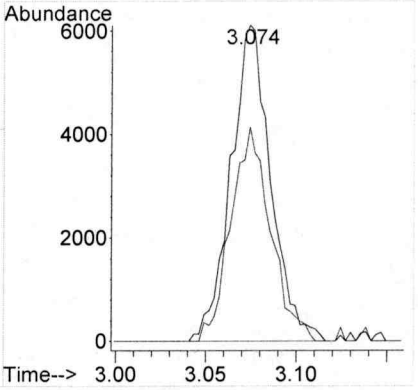


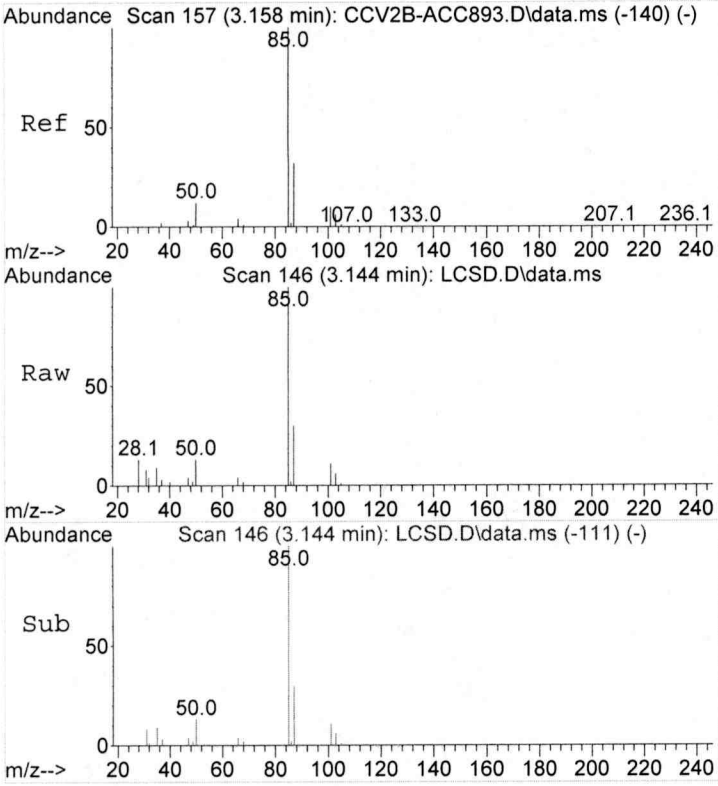


#5
Propene
Concen: 9.878 ppbV
RT: 3.074 min Scan# 121
Delta R.T. -0.009 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 41 Resp: 9368

Ion	Ratio	Lower	Upper
41	100		
42	67.4	35.1	95.1

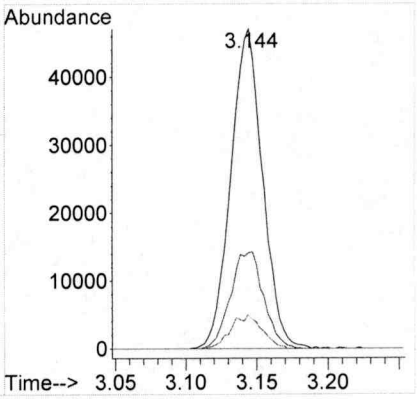


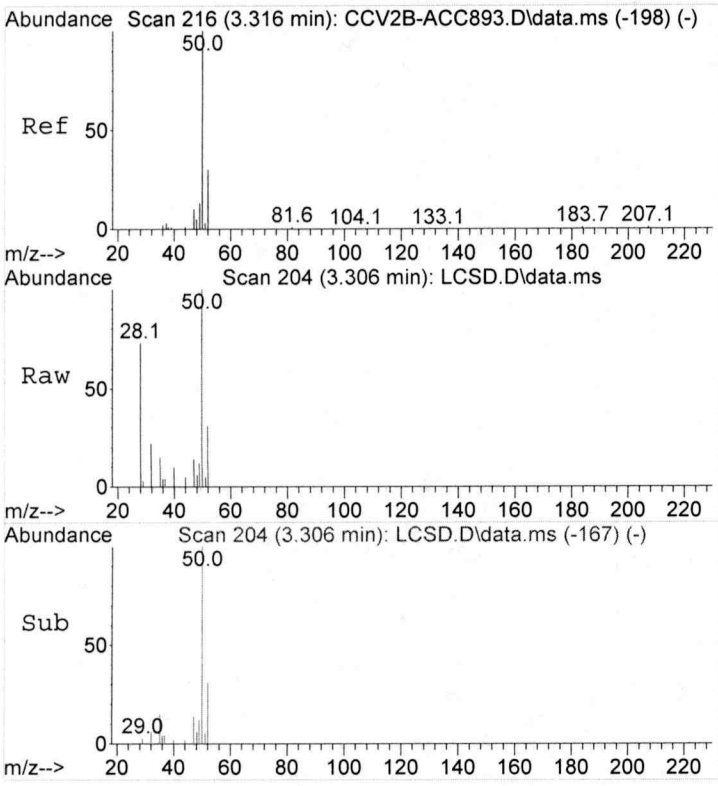


#6
Dichlorodifluoromethane
Concen: 11.331 ppbV
RT: 3.144 min Scan# 146
Delta R.T. -0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 85 Resp: 72928

Ion	Ratio	Lower	Upper
85	100		
87	31.7	2.3	62.3
101	10.4	0.0	39.7

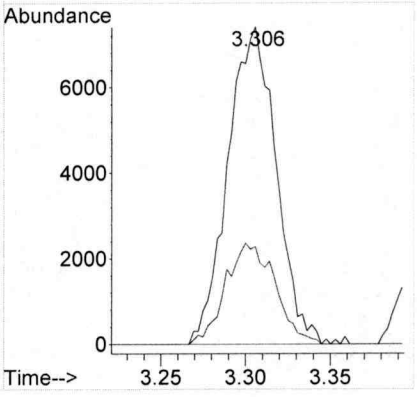


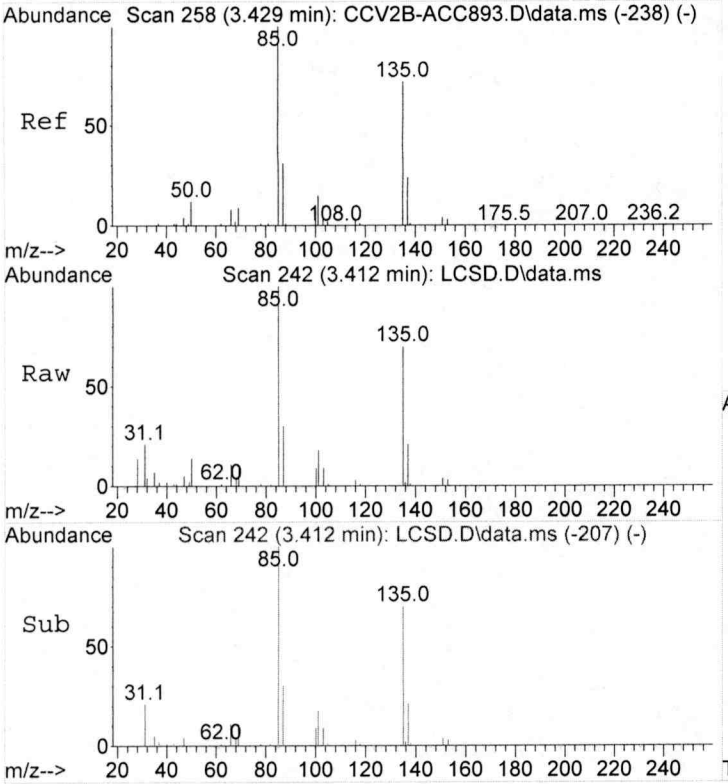


#7
Chloromethane
Concen: 9.067 ppbV
RT: 3.306 min Scan# 204
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 50 Resp: 14655

Ion	Ratio	Lower	Upper
50	100		
52	32.6	4.1	64.1

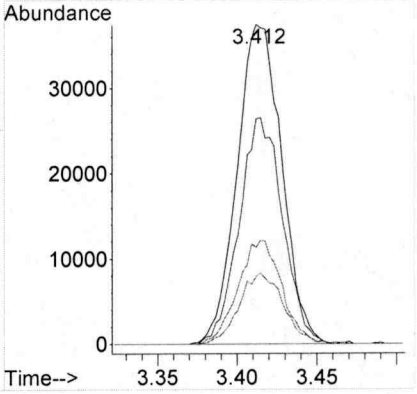


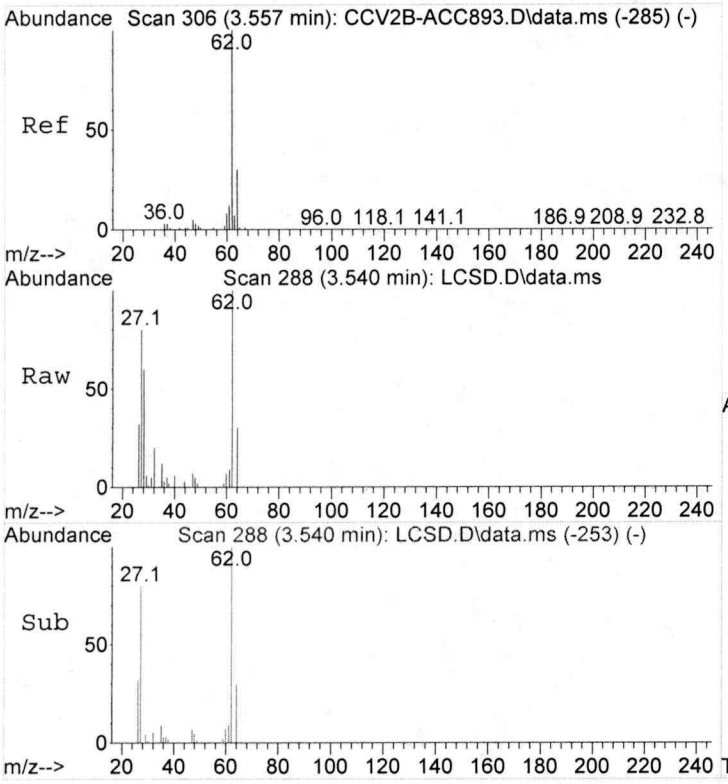


#8
Dichlorotetrafluoroethane
Concen: 9.823 ppbV
RT: 3.412 min Scan# 242
Delta R.T. -0.001 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 85 Resp: 72658

Ion	Ratio	Lower	Upper
85	100		
135	69.1	40.5	100.5
87	31.7	2.7	62.7
137	21.9	0.0	52.8

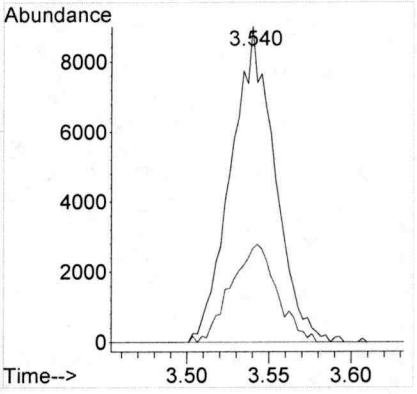


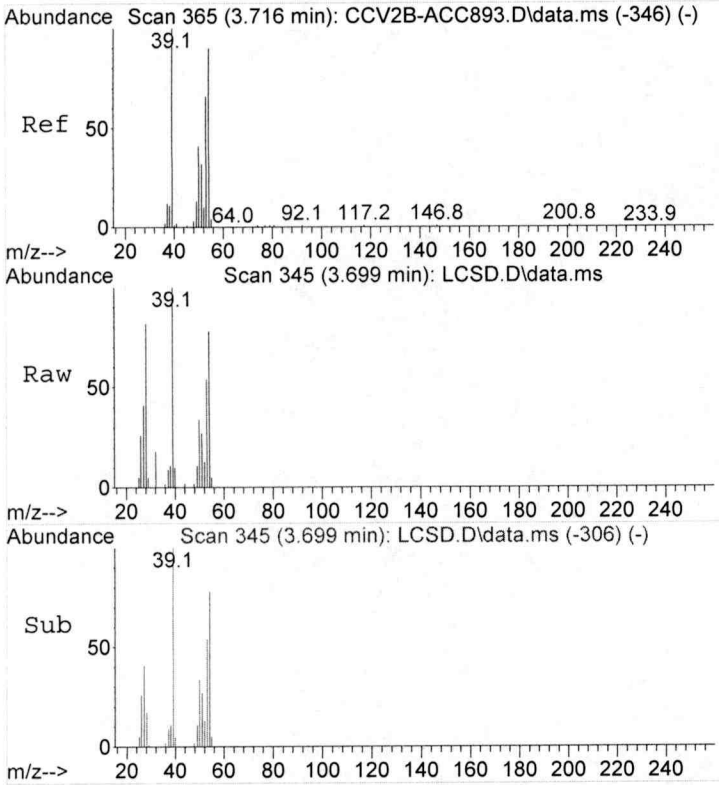


#9
Vinyl Chloride
Concen: 8.621 ppbV
RT: 3.540 min Scan# 288
Delta R.T. -0.001 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 62 Resp: 16711

Ion	Ratio	Lower	Upper
62	100		
64	32.3	1.4	61.4

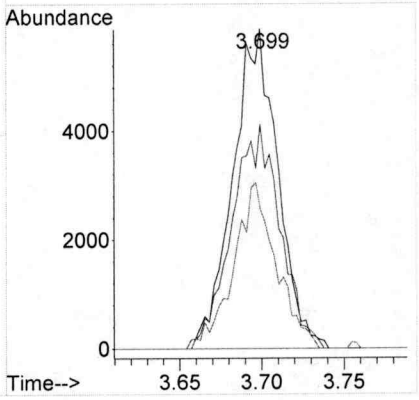


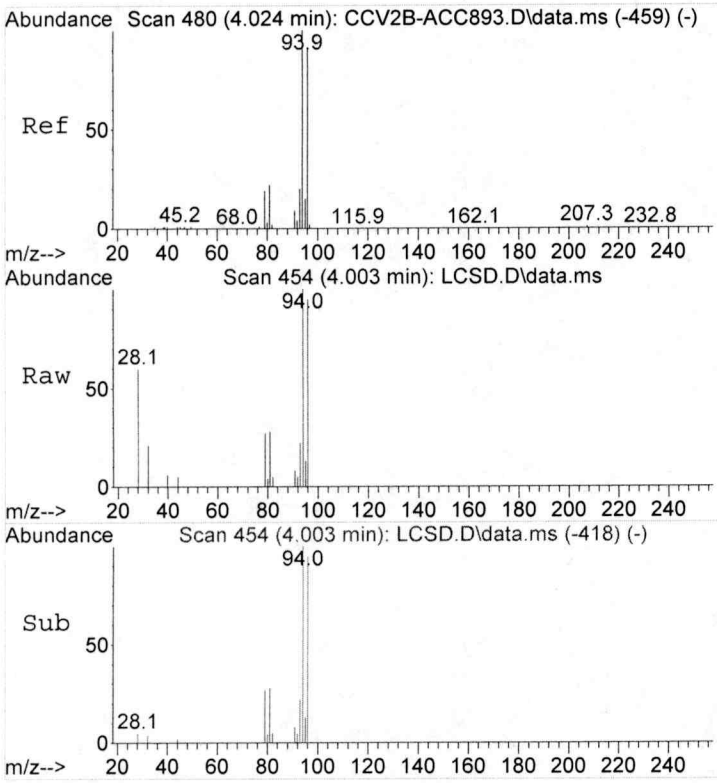


#10
1,3-Butadiene
Concen: 8.422 ppbV
RT: 3.699 min Scan# 345
Delta R.T. 0.010 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 54 Resp: 11144

Ion	Ratio	Lower	Upper
54	100		
53	75.3	41.1	101.1
50	48.8	13.0	73.0

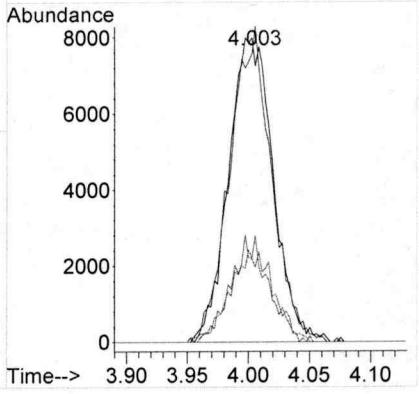


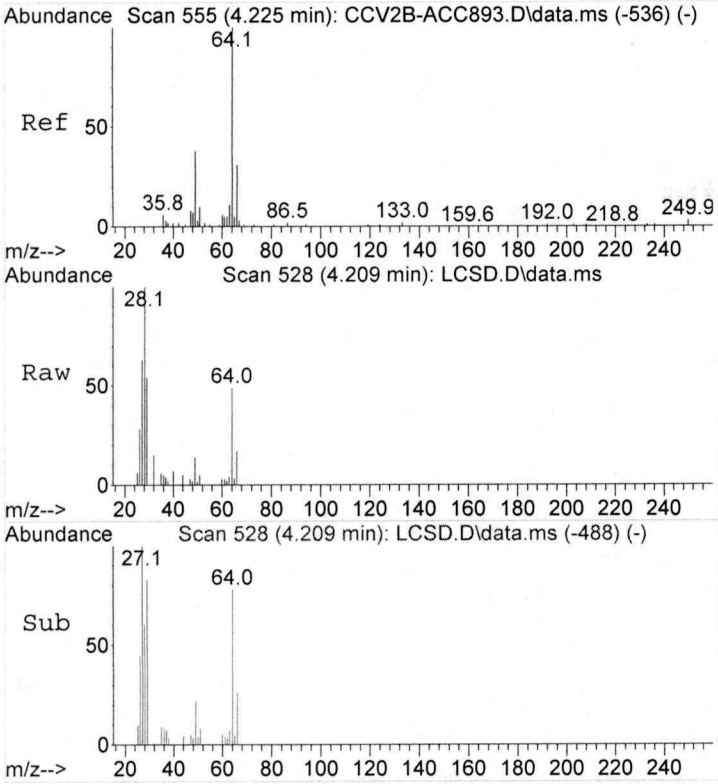


#11
Bromomethane
Concen: 9.219 ppbV
RT: 4.003 min Scan# 454
Delta R.T. -0.000 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 94 Resp: 20351

Ion	Ratio	Lower	Upper
94	100		
96	96.2	63.6	123.6
79	30.4	0.0	54.2
81	28.0	0.0	54.2

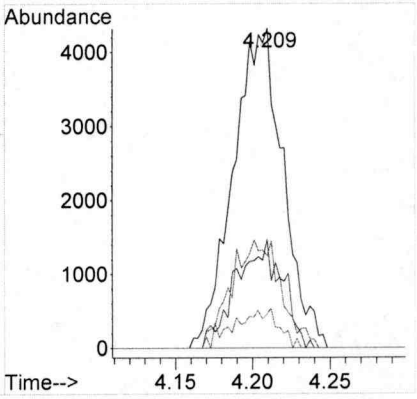


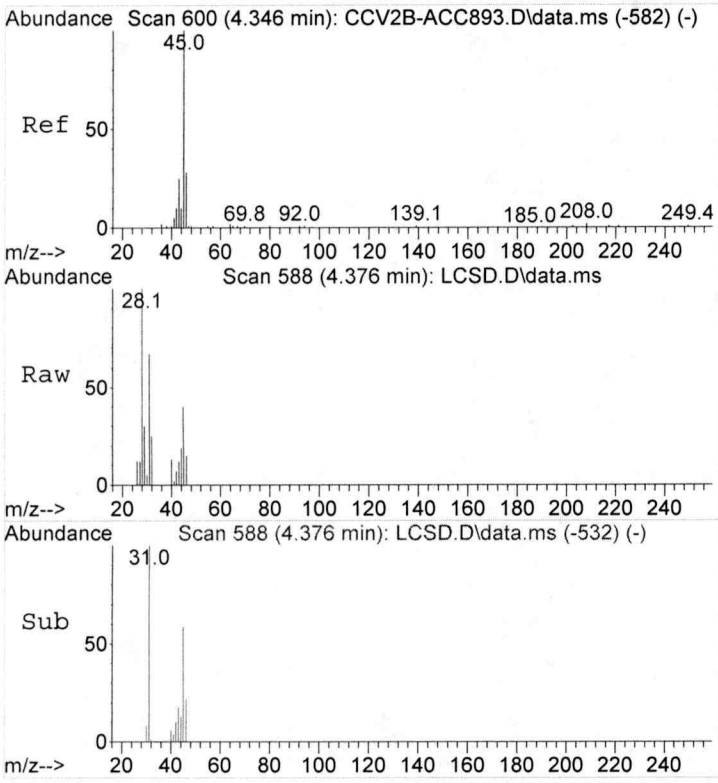


#12
Chloroethane
Concen: 9.662 ppbV
RT: 4.209 min Scan# 528
Delta R.T. 0.010 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 64 Resp: 9707

Ion	Ratio	Lower	Upper
64	100		
66	8.7	0.0	45.7
49	33.3	2.7	62.7
51	10.9	0.0	30.0

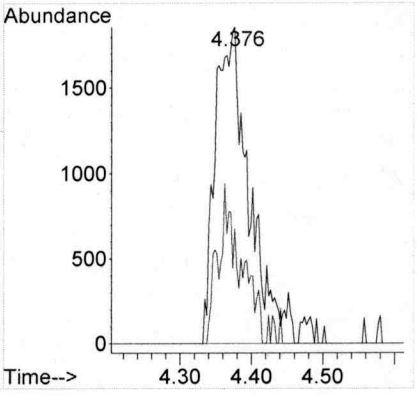


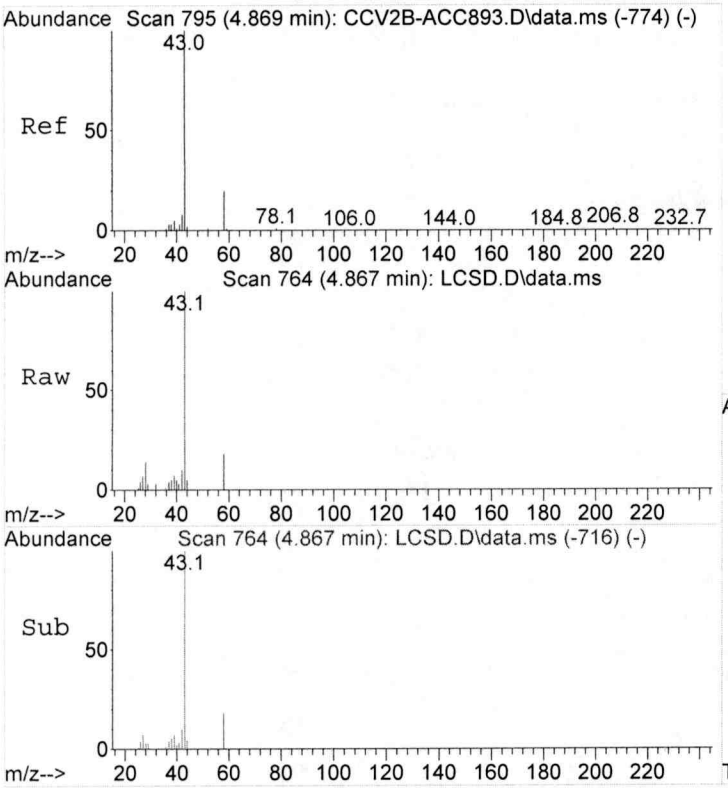


#13
Ethanol
Concen: 7.012 ppbV m
RT: 4.376 min Scan# 588
Delta R.T. 0.057 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 45 Resp: 6330

Ion	Ratio	Lower	Upper
45	100		
46	0.0	0.0	30.0

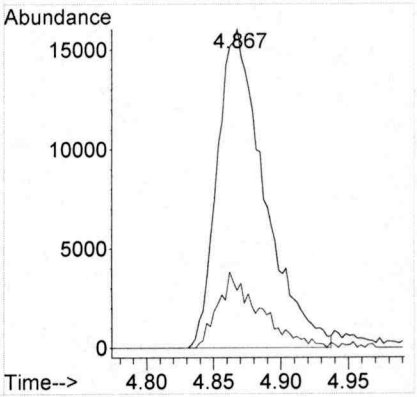


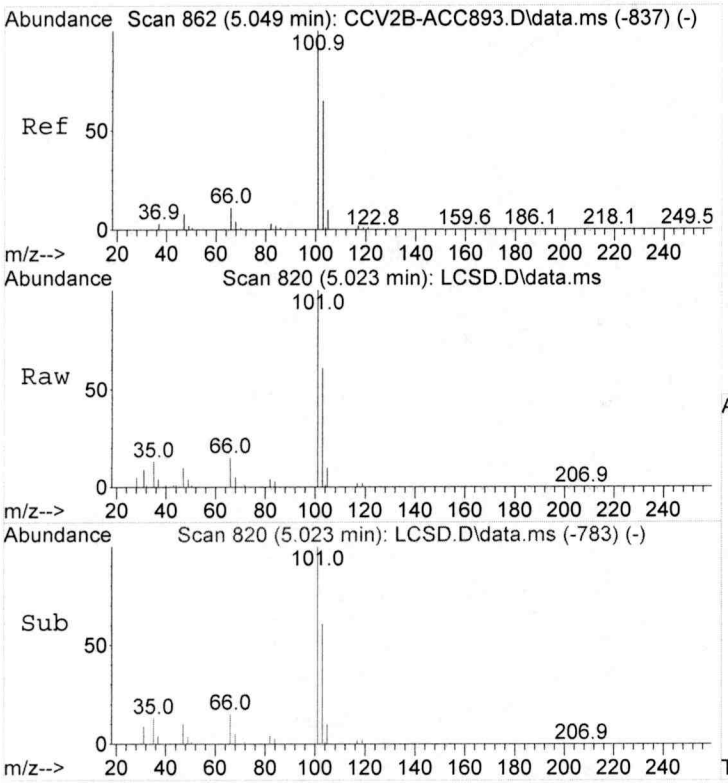


#14
Acetone
Concen: 8.056 ppbV
RT: 4.867 min Scan# 764
Delta R.T. 0.033 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 43 Resp: 38787

Ion	Ratio	Lower	Upper
43	100		
58	21.1	0.0	47.3

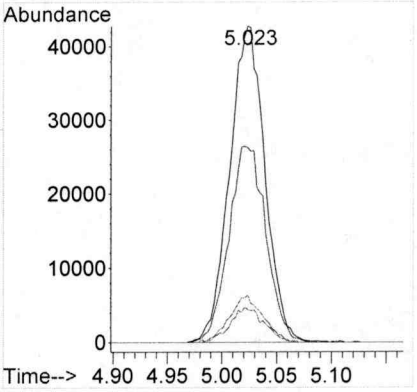


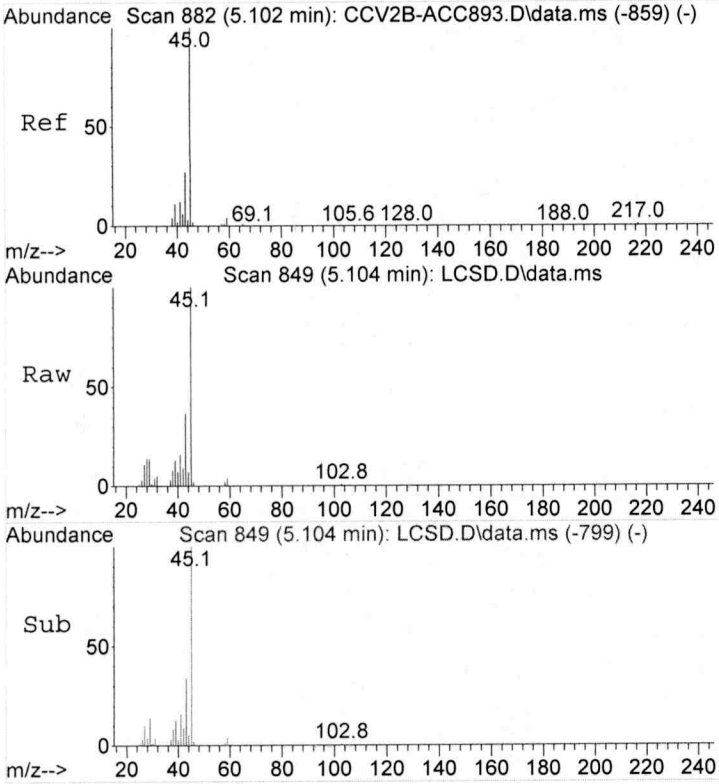


#15
Trichlorofluoromethane
Concen: 9.533 ppbV
RT: 5.023 min Scan# 820
Delta R.T. 0.004 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:101 Resp: 95759

Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.7	77.5
66	14.1	10.6	15.8
105	10.5	8.6	13.0

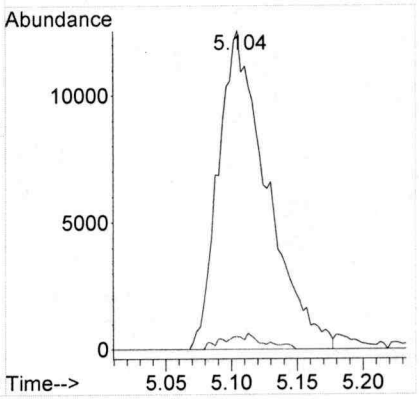


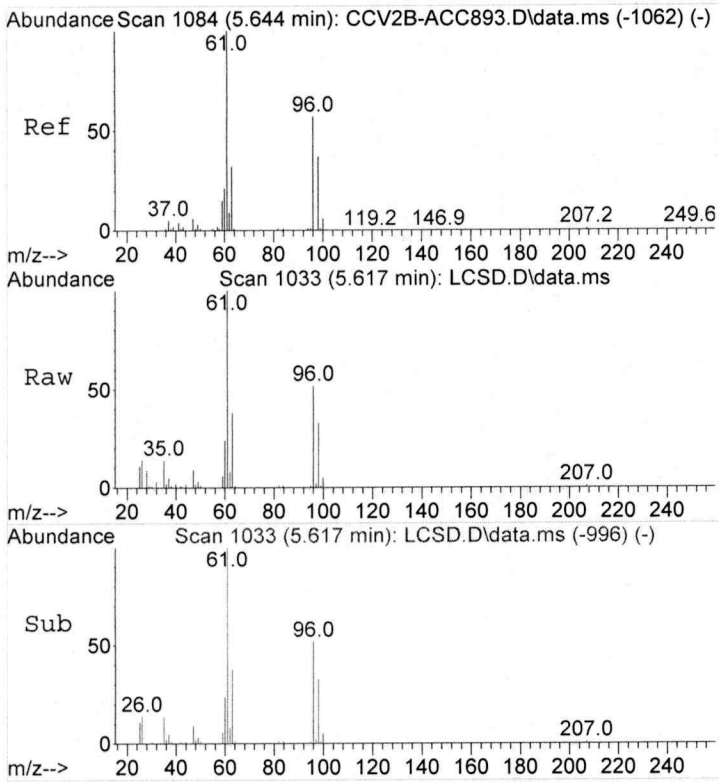


#16
Isopropanol
Concen: 7.047 ppbV
RT: 5.104 min Scan# 849
Delta R.T. 0.039 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 45 Resp: 32094

Ion	Ratio	Lower	Upper
45	100		
59	0.0	0.0	30.0

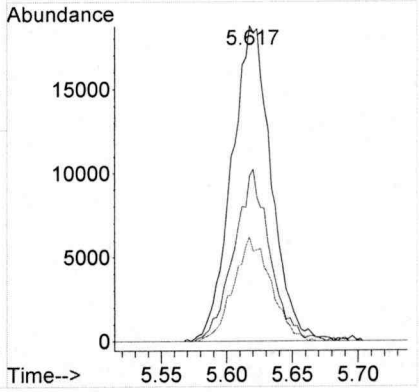


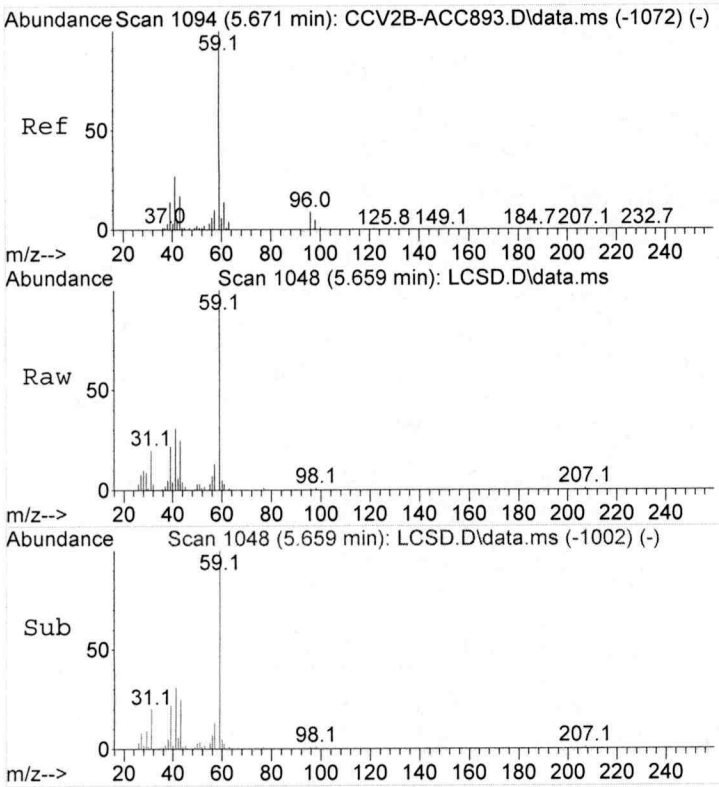


#17
1,1-Dichloroethene
Concen: 8.788 ppbV
RT: 5.617 min Scan# 1033
Delta R.T. 0.002 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 61 Resp: 39251

Ion	Ratio	Lower	Upper
61	100		
96	49.1	40.2	60.2
98	31.2	26.6	39.8

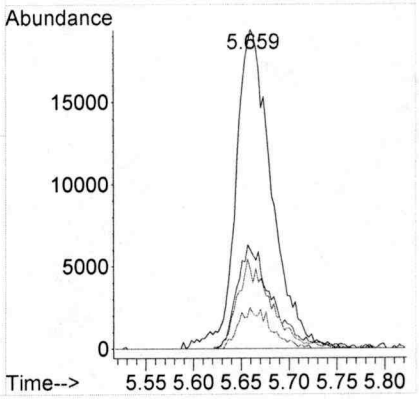


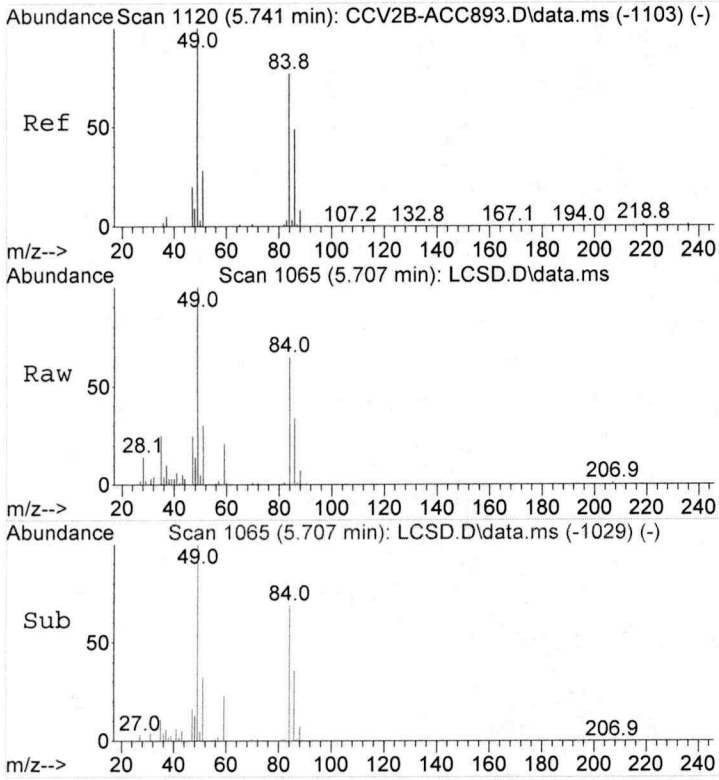


#18
tert-Butanol
Concen: 7.772 ppbV
RT: 5.659 min Scan# 1048
Delta R.T. 0.028 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 59 Resp: 50310

Ion	Ratio	Lower	Upper
59	100		
41	31.7	0.0	57.7
43	25.8	0.0	35.5
57	11.5	0.0	37.6

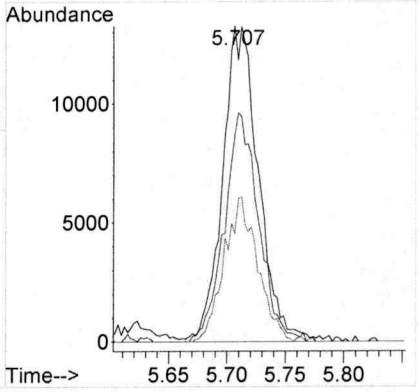


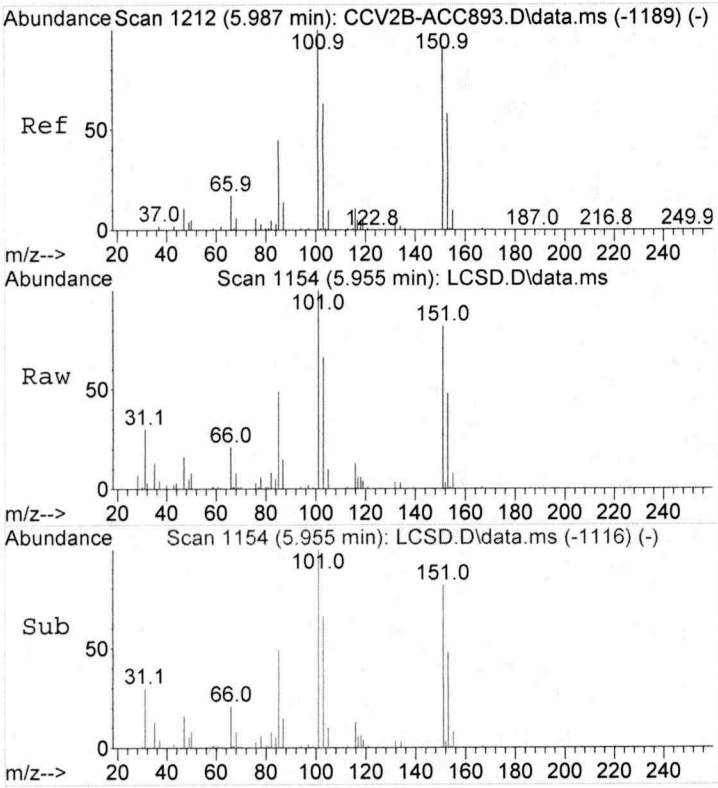


#19
Methylene chloride
Concen: 9.561 ppbV
RT: 5.707 min Scan# 1065
Delta R.T. 0.001 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 49 Resp: 28393

Ion	Ratio	Lower	Upper
49	100		
84	69.1	42.1	102.1
86	42.7	17.3	77.3

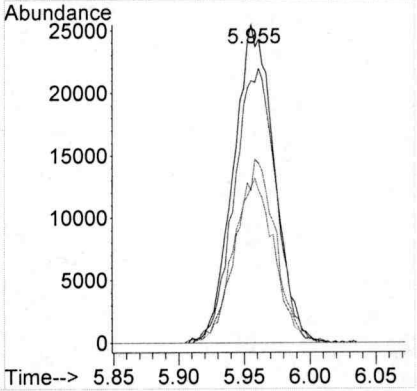


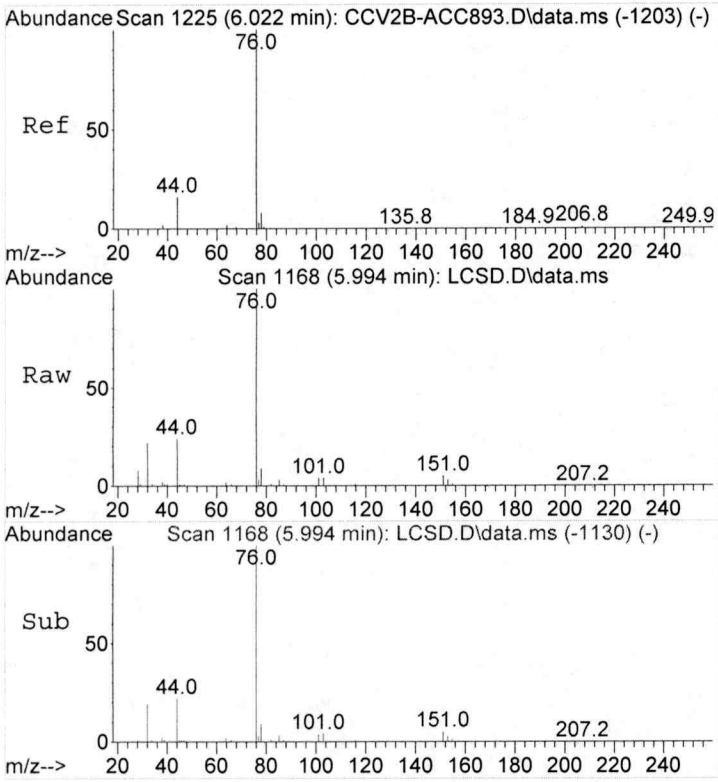


#20
1,1,2-Trichlorotrifluoroethane
Concen: 8.452 ppbV
RT: 5.955 min Scan# 1154
Delta R.T. 0.005 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:101 Resp: 54963

Ion	Ratio	Lower	Upper
101	100		
151	88.1	56.9	116.9
153	56.4	24.7	84.7
85	50.8	18.0	78.0

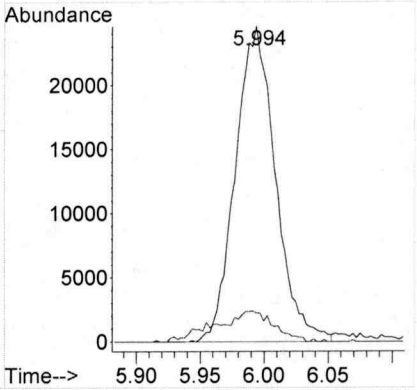


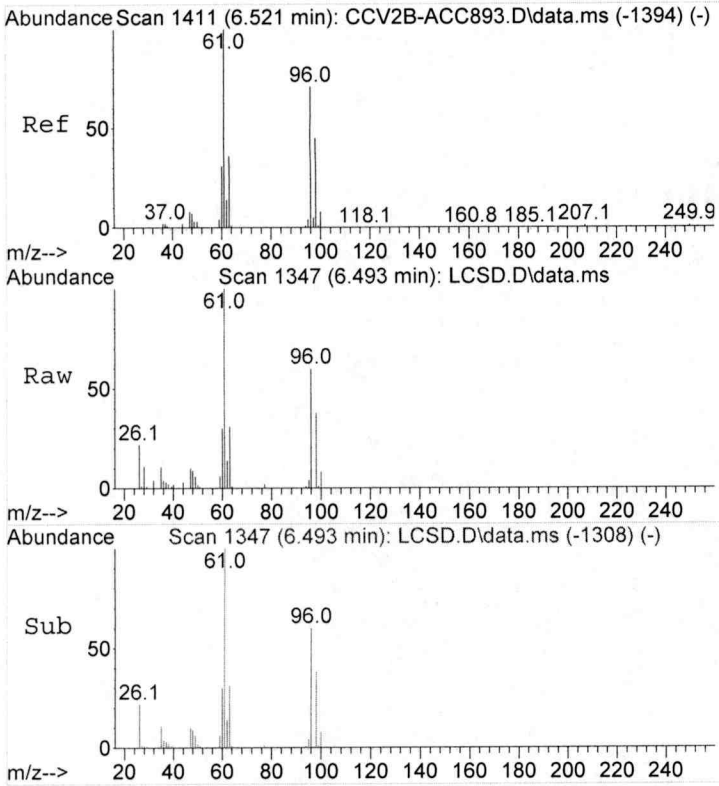


#21
Carbon Disulfide
Concen: 8.038 ppbV
RT: 5.994 min Scan# 1168
Delta R.T. 0.007 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 76 Resp: 53260

Ion	Ratio	Lower	Upper
76	100		
78	8.8	0.0	39.5

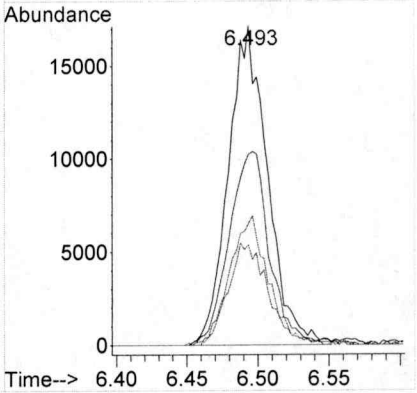


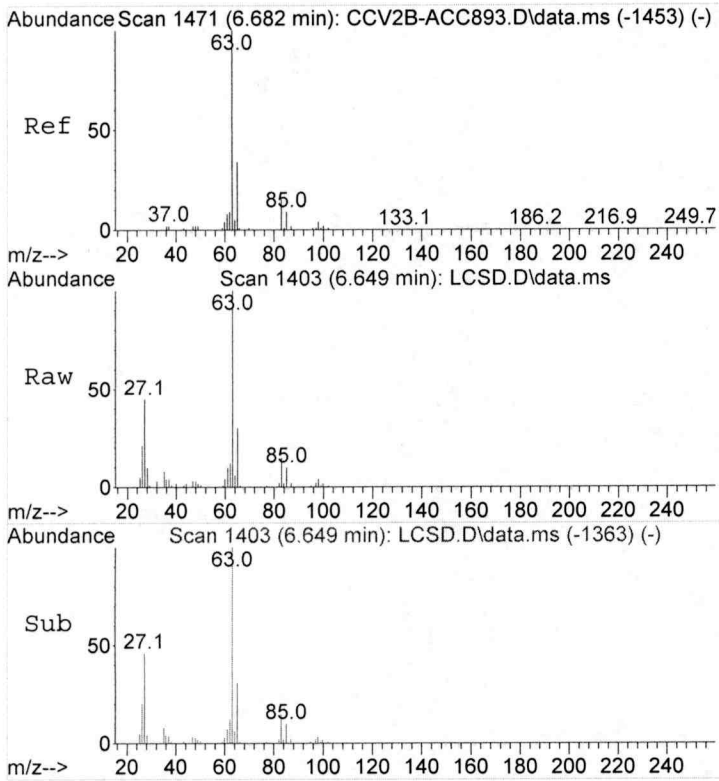


#22
trans-1,2-Dichloroethene
Concen: 8.299 ppbV
RT: 6.493 min Scan# 1347
Delta R.T. 0.009 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 61 Resp: 32824

Ion	Ratio	Lower	Upper
61	100		
96	61.9	34.6	94.6
63	32.5	1.9	61.9
98	40.3	10.6	70.6

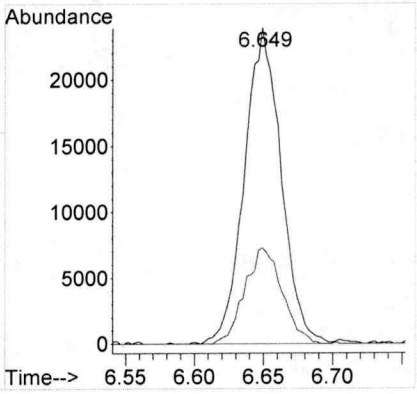


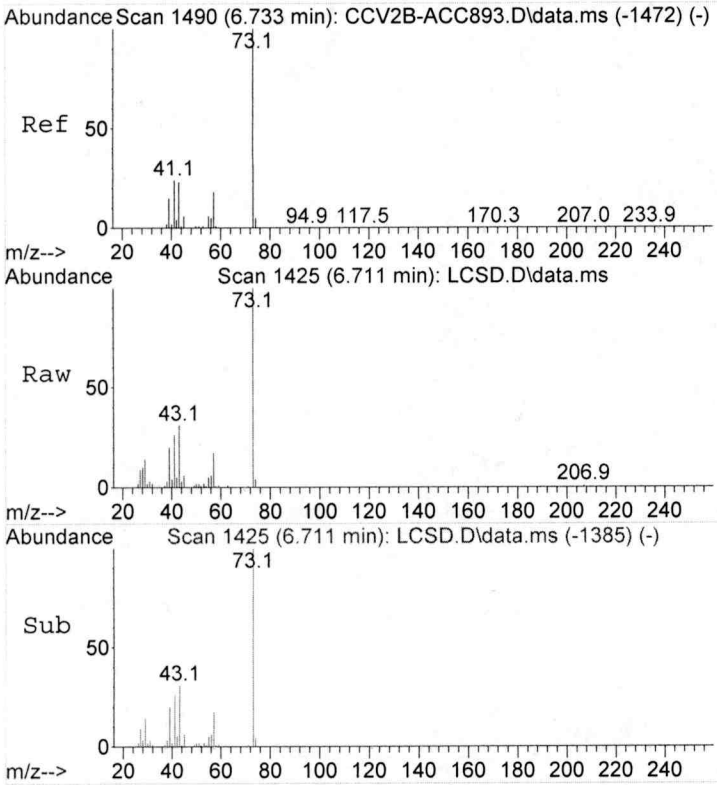


#23
1,1-Dichloroethane
Concen: 8.824 ppbV
RT: 6.649 min Scan# 1403
Delta R.T. 0.010 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 63 Resp: 44010

Ion	Ratio	Lower	Upper
63	100		
65	30.9	1.4	61.4

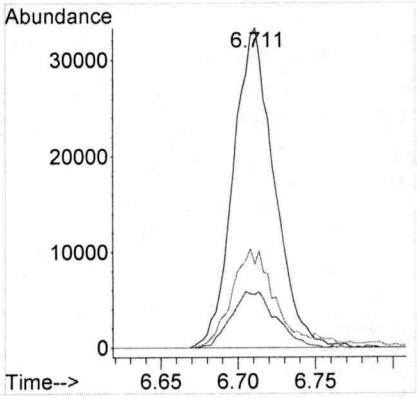


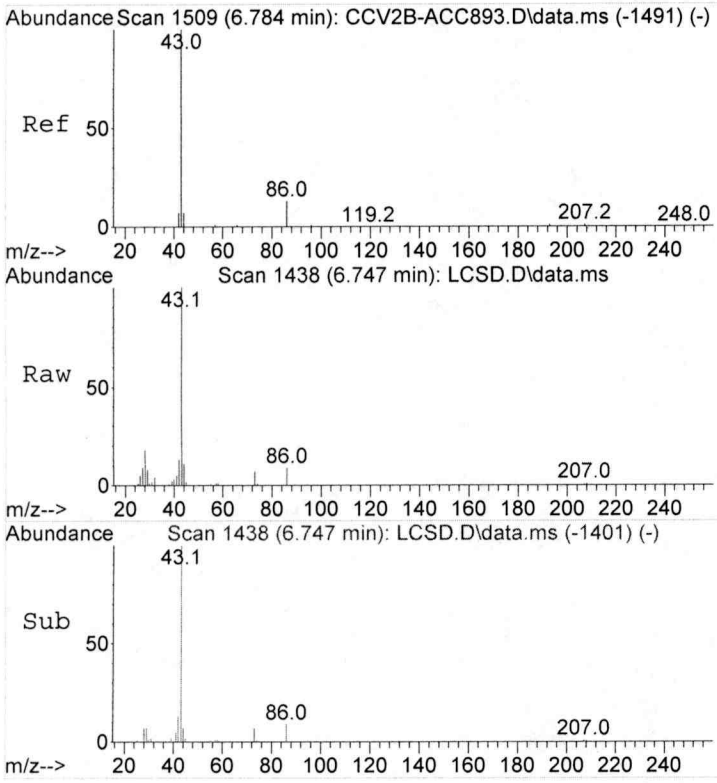


#24
Methyl-tert-Butyl Ether
Concen: 8.336 ppbV
RT: 6.711 min Scan# 1425
Delta R.T. 0.013 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 73 Resp: 61164

Ion	Ratio	Lower	Upper
73	100		
57	19.3	15.1	22.7
41	31.8	20.3	30.5#

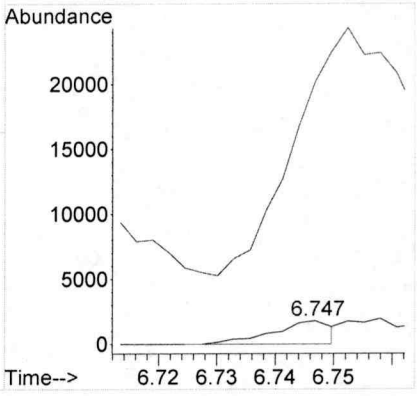


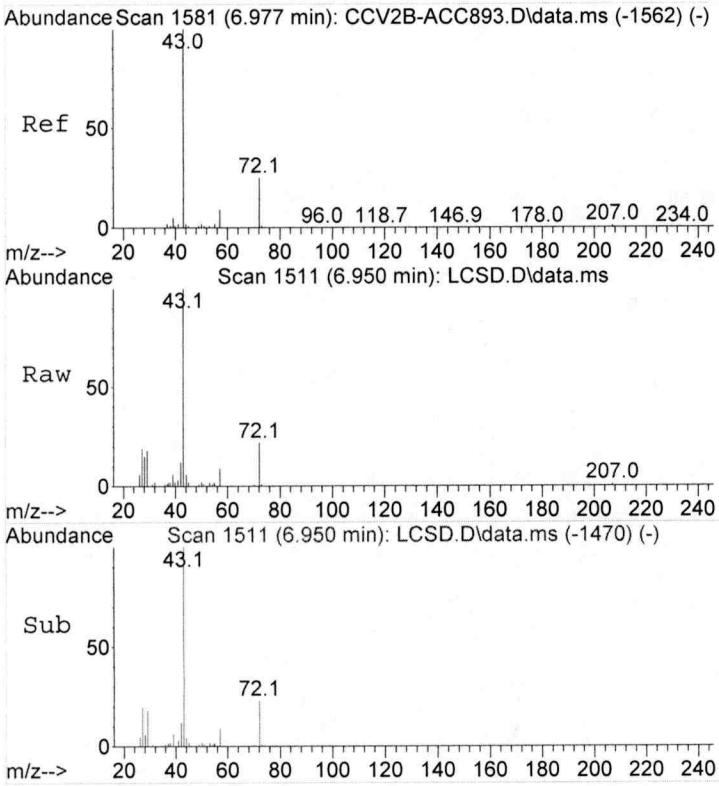


#25
Vinyl Acetate
Concen: 2.784 ppbV
RT: 6.747 min Scan# 1438
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 86 Resp: 1264

Ion	Ratio	Lower	Upper
86	100		
43	3601.6	1163.6	1223.6#

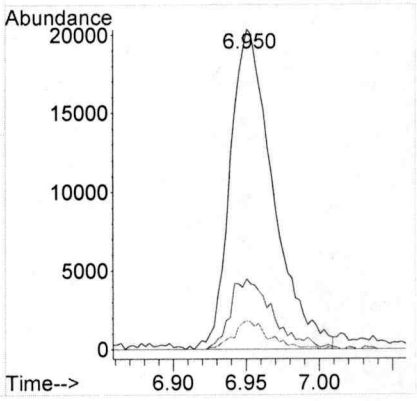


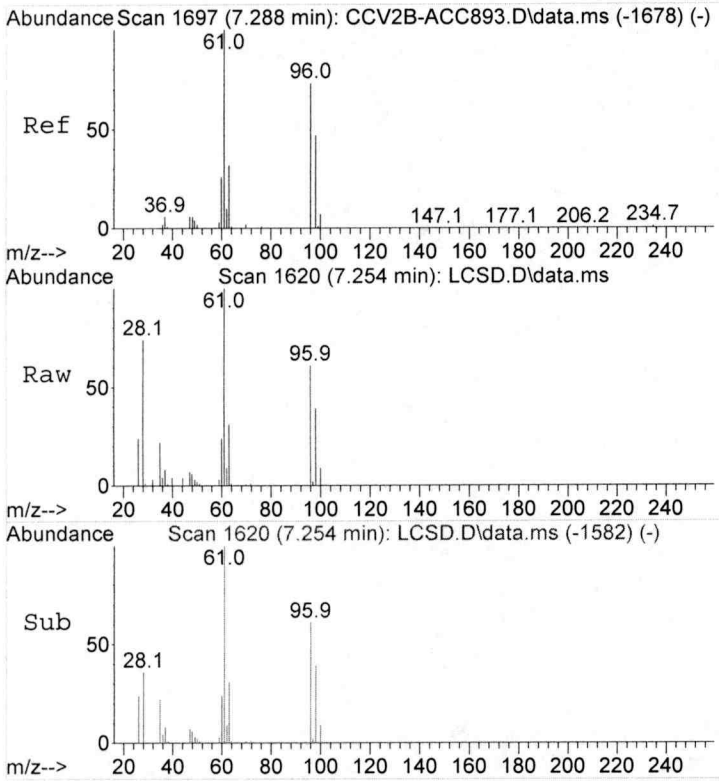


#26
2-Butanone
Concen: 7.994 ppbV
RT: 6.950 min Scan# 1511
Delta R.T. 0.013 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 43 Resp: 41494

Ion	Ratio	Lower	Upper
43	100		
72	21.6	0.0	51.3
57	7.5	0.0	32.0

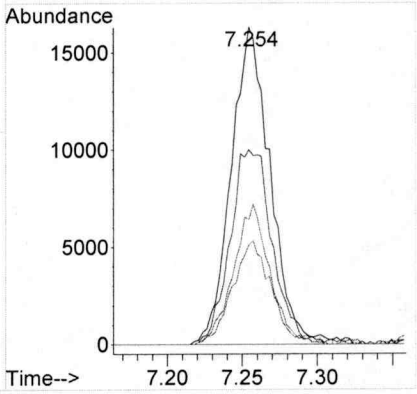


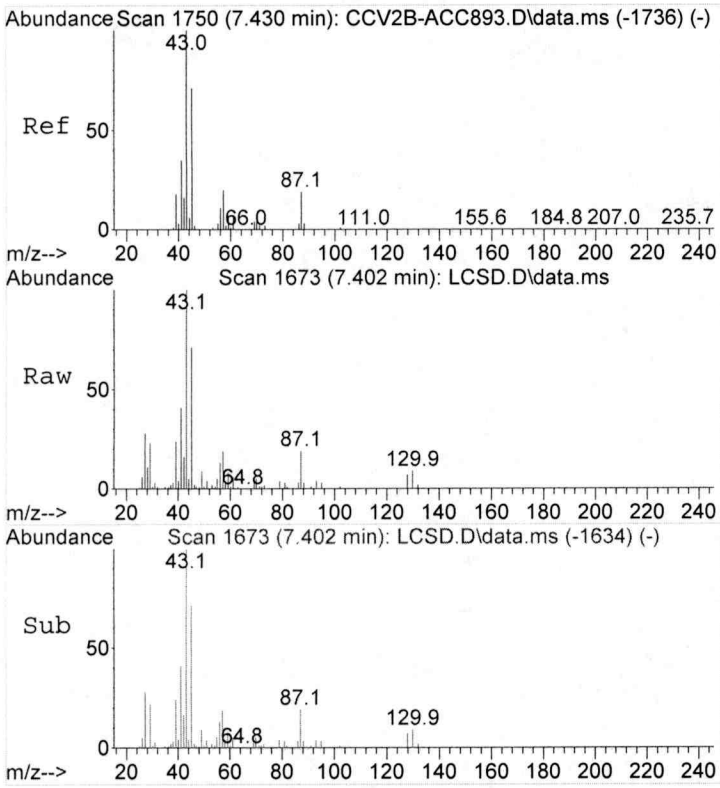


#27
cis-1,2-Dichloroethene
Concen: 8.331 ppbV
RT: 7.254 min Scan# 1620
Delta R.T. 0.006 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 61 Resp: 29541

Ion	Ratio	Lower	Upper
61	100		
96	66.1	38.9	98.9
98	41.2	14.0	74.0
63	32.5	2.3	62.3

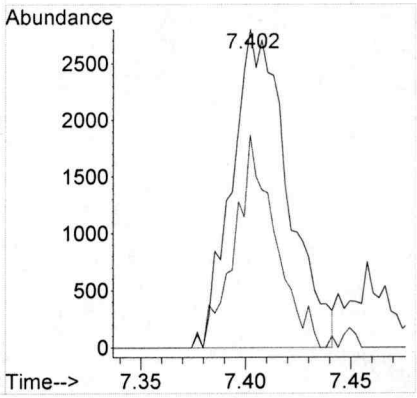


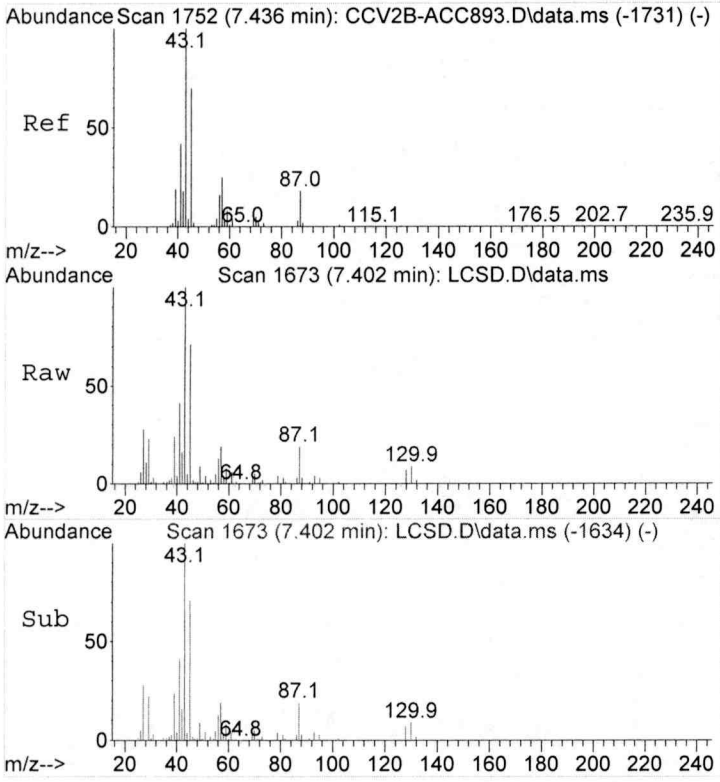


#28
Ethyl Acetate
Concen: 9.472 ppbV
RT: 7.402 min Scan# 1673
Delta R.T. 0.009 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 70 Resp: 5142

Ion	Ratio	Lower	Upper
70	100		
88	48.9	14.5	74.5

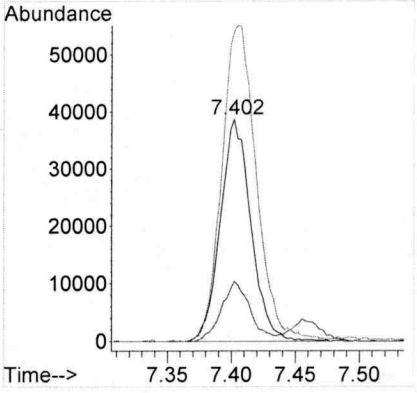


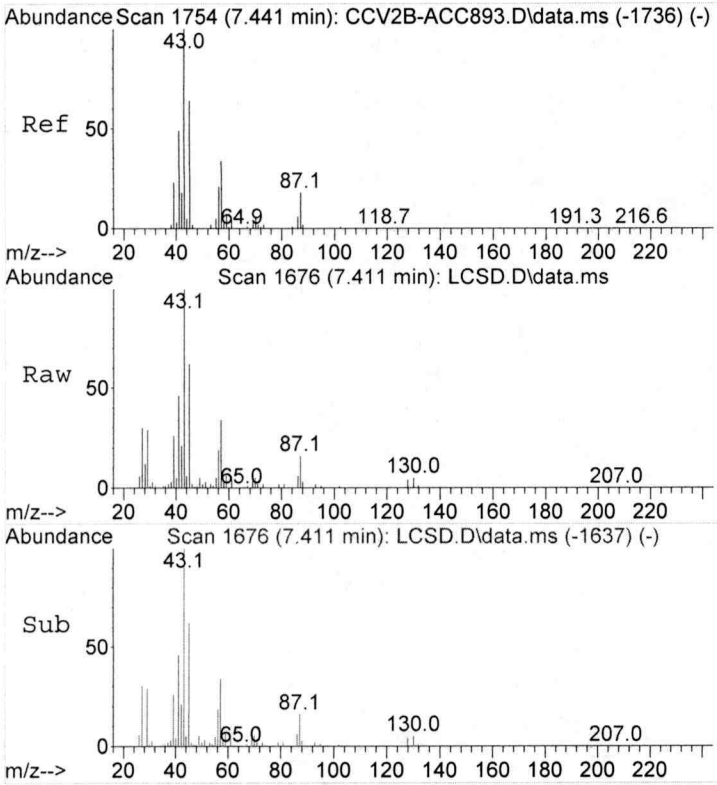


#29
Diisopropyl Ether
Concen: 10.211 ppbV
RT: 7.402 min Scan# 1673
Delta R.T. 0.009 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 45 Resp: 64226

Ion	Ratio	Lower	Upper
45	100		
87	25.4	0.0	56.3
43	161.0	110.9	170.9

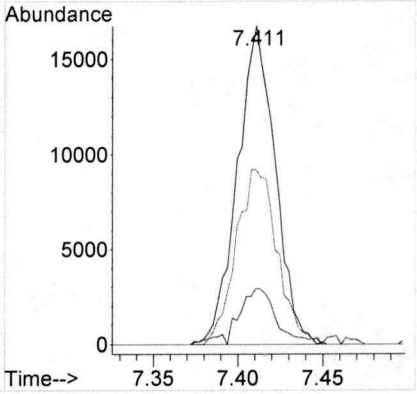


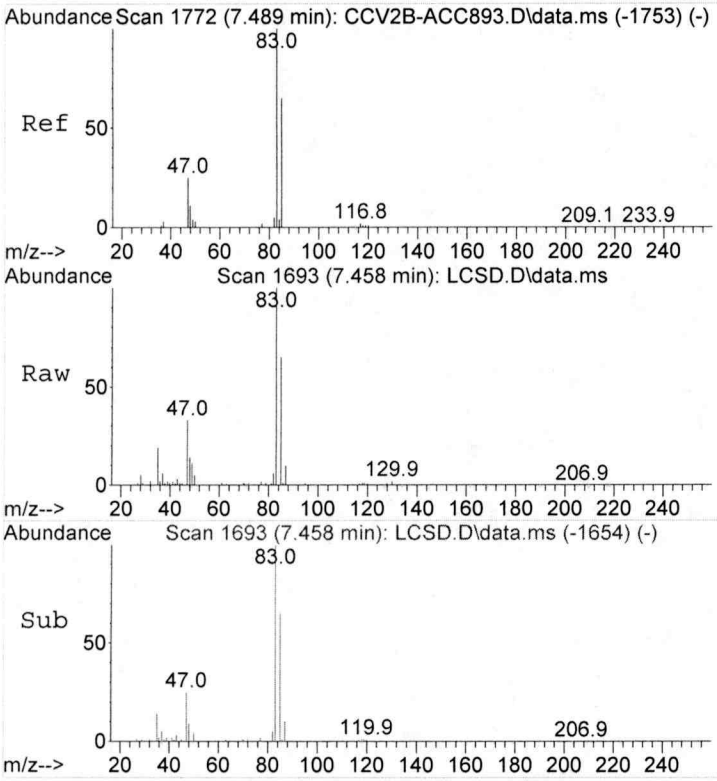


#30
Hexane
Concen: 9.844 ppbV
RT: 7.411 min Scan# 1676
Delta R.T. 0.010 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 57 Resp: 25937

Ion	Ratio	Lower	Upper
57	100		
86	17.7	0.0	47.3
56	60.1	26.1	86.1

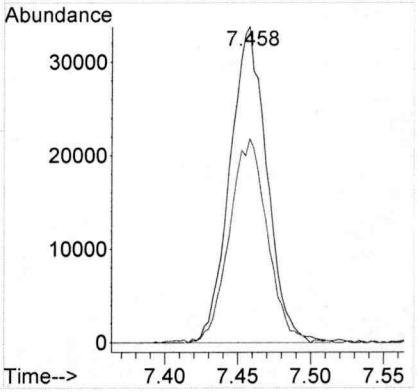


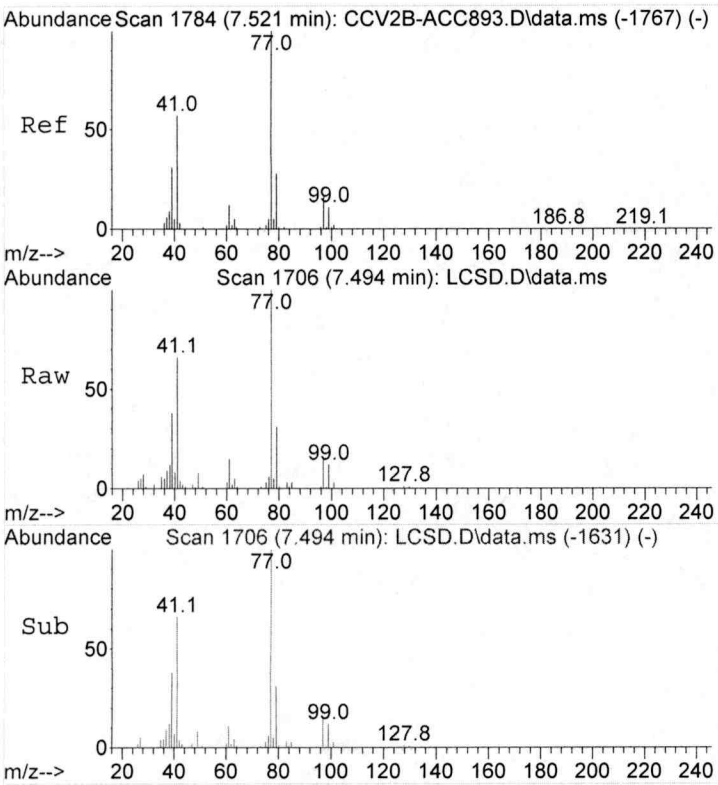


#31
Chloroform
Concen: 9.789 ppbV
RT: 7.458 min Scan# 1693
Delta R.T. 0.009 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 83 Resp: 59506

Ion	Ratio	Lower	Upper
83	100		
85	65.8	33.9	93.9

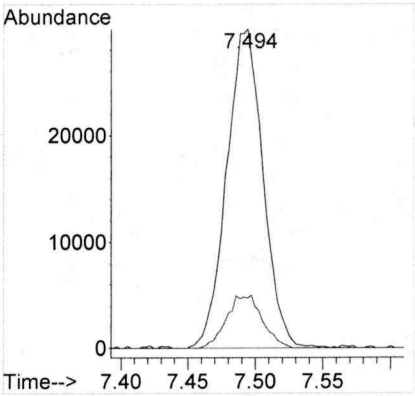


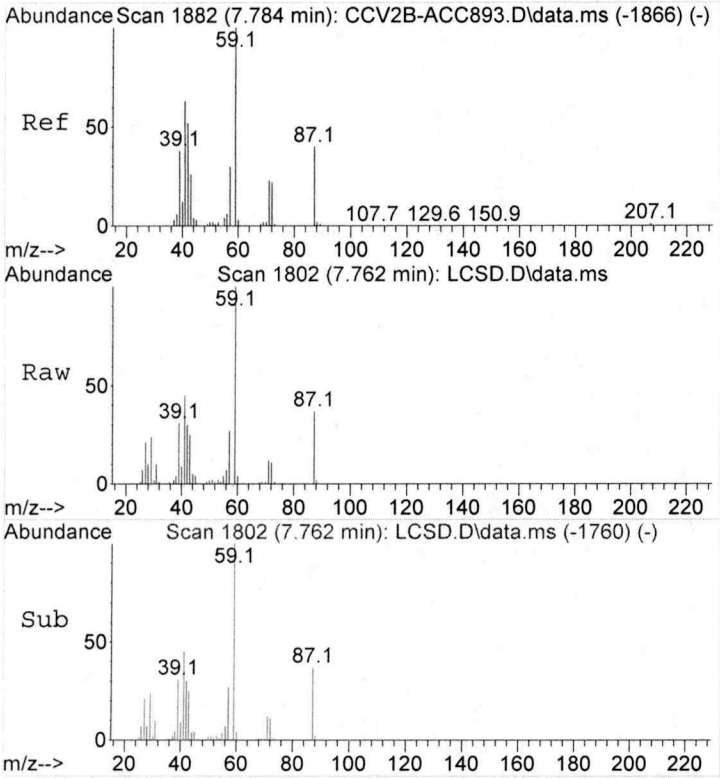


#32
2,2 Dichloropropane
Concen: 9.937 ppbV
RT: 7.494 min Scan# 1706
Delta R.T. 0.010 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 77 Resp: 56035

Ion	Ratio	Lower	Upper
77	100		
97	16.3	0.0	37.0

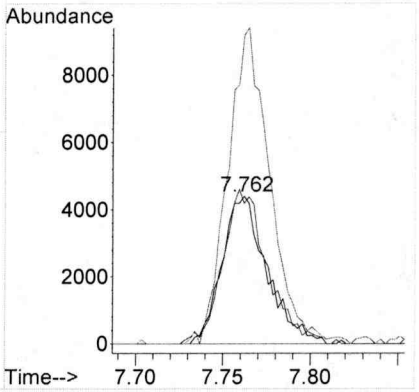


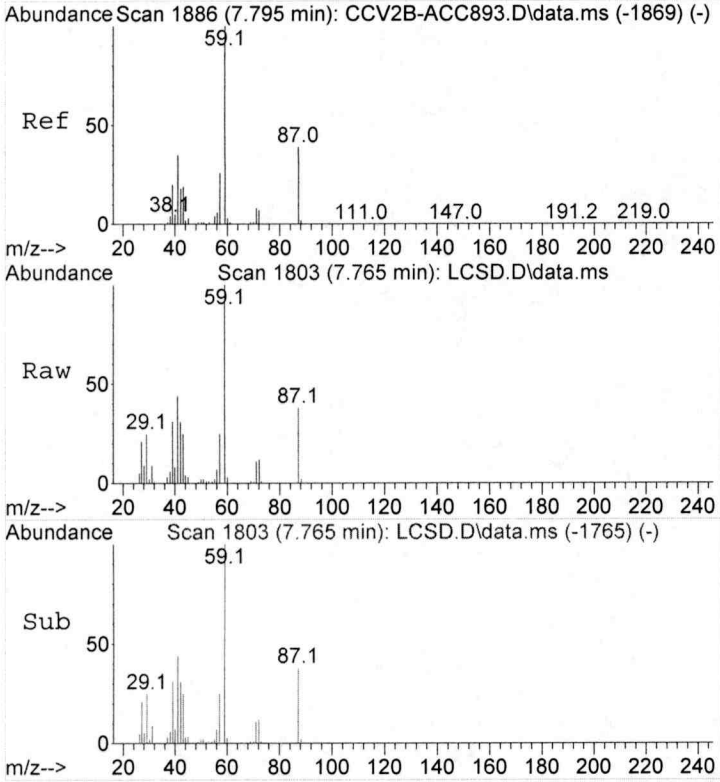


#33
Tetrahydrofuran
Concen: 9.737 ppbV
RT: 7.762 min Scan# 1802
Delta R.T. 0.018 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 71 Resp: 7795

Ion	Ratio	Lower	Upper
71	100		
72	104.0	82.2	123.2
43	202.6	142.2	213.4

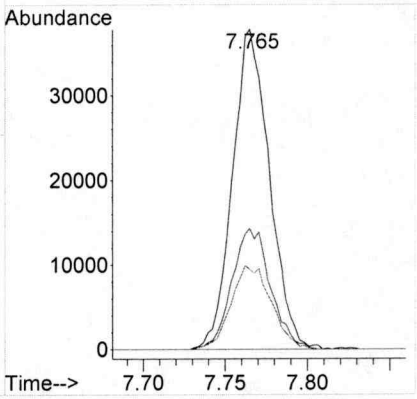


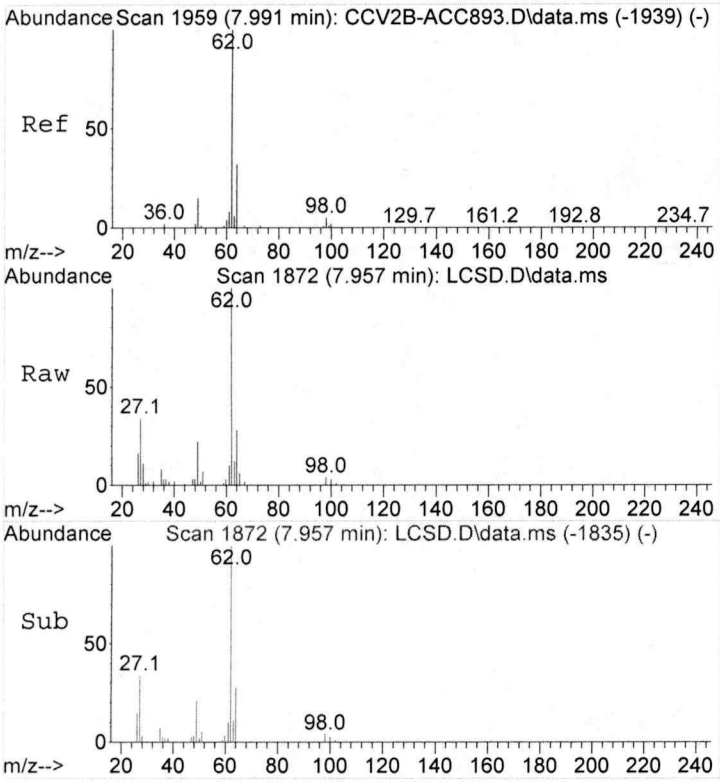


#34
Ethyl-tert-Butyl Ether
Concen: 10.445 ppbV
RT: 7.765 min Scan# 1803
Delta R.T. 0.007 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 59 Resp: 59047

Ion	Ratio	Lower	Upper
59	100		
87	39.7	10.7	70.7
57	28.6	0.0	58.3

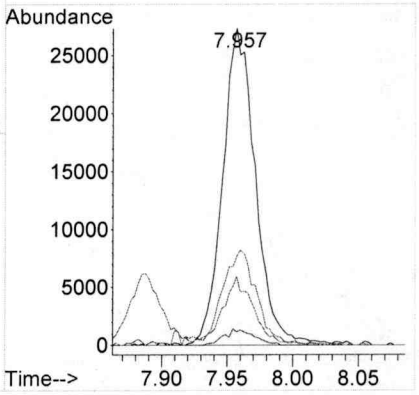


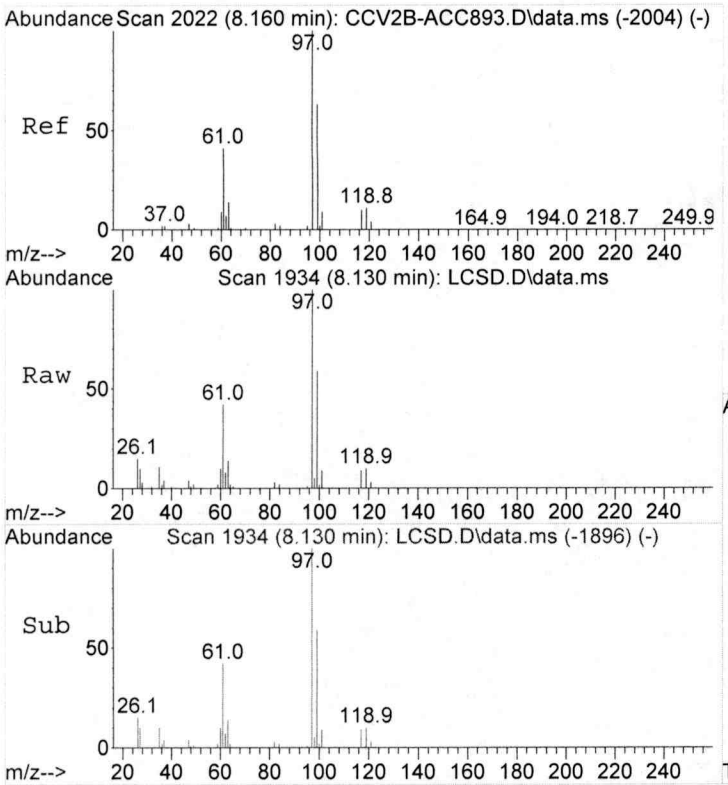


#36
1,2-Dichloroethane
Concen: 10.251 ppbV
RT: 7.957 min Scan# 1872
Delta R.T. 0.004 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 62 Resp: 47440

Ion	Ratio	Lower	Upper
62	100		
98	4.6	0.0	36.1
64	31.1	2.7	62.7
49	18.4	0.0	50.4

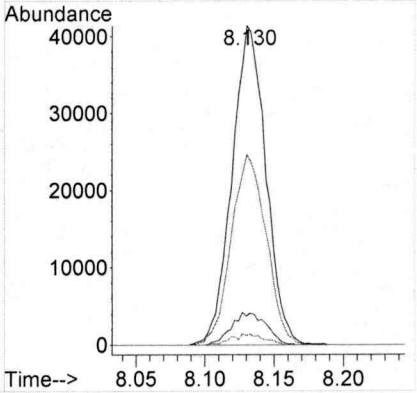


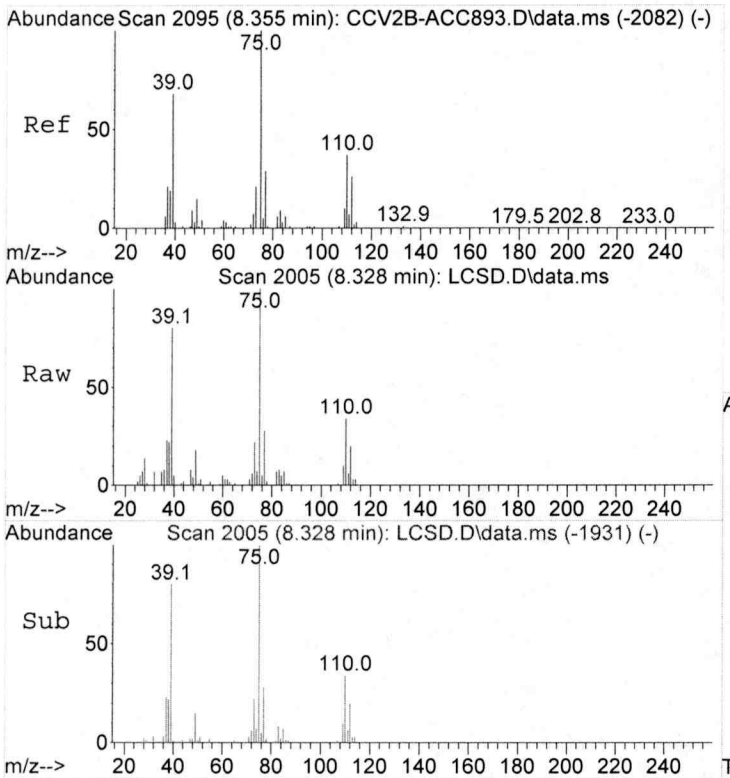


#37
1,1,1-Trichloroethane
Concen: 10.176 ppbV
RT: 8.130 min Scan# 1934
Delta R.T. 0.005 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 97 Resp: 70201

Ion	Ratio	Lower	Upper
97	100		
117	10.4	0.0	41.4
121	3.3	0.0	33.4
99	61.3	34.2	94.2

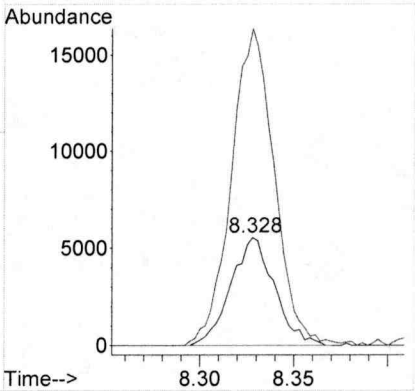


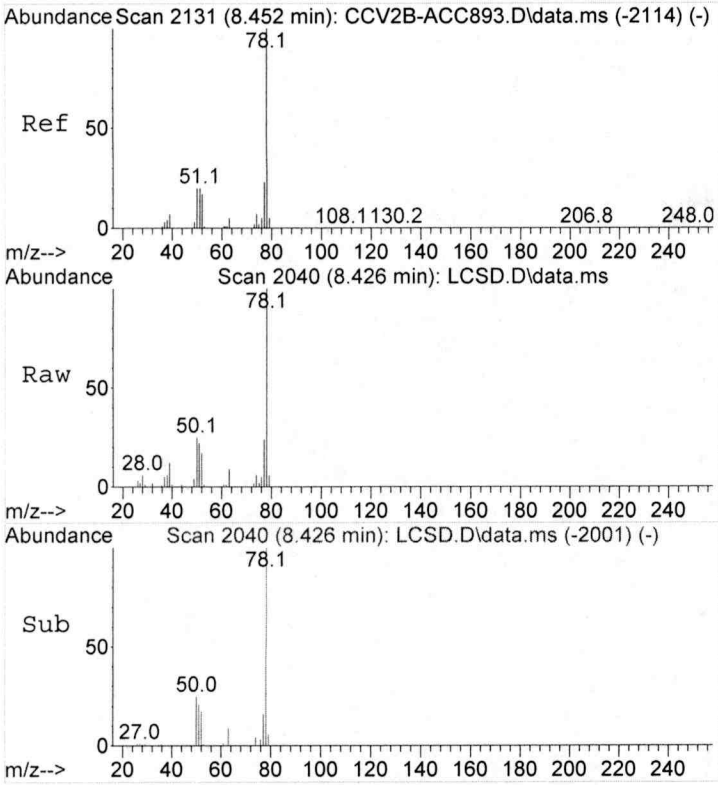


#38
1,1-Dichloropropene
Concen: 8.706 ppbV
RT: 8.328 min Scan# 2005
Delta R.T. 0.007 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:110 Resp: 9000

Ion	Ratio	Lower	Upper
110	100		
75	289.0	272.7	312.7

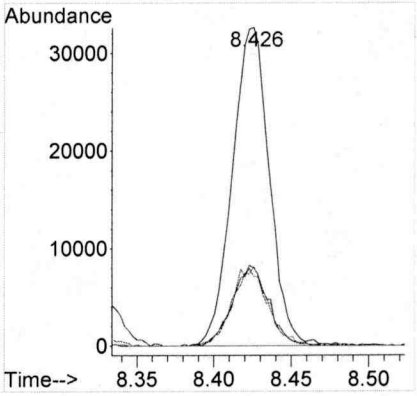


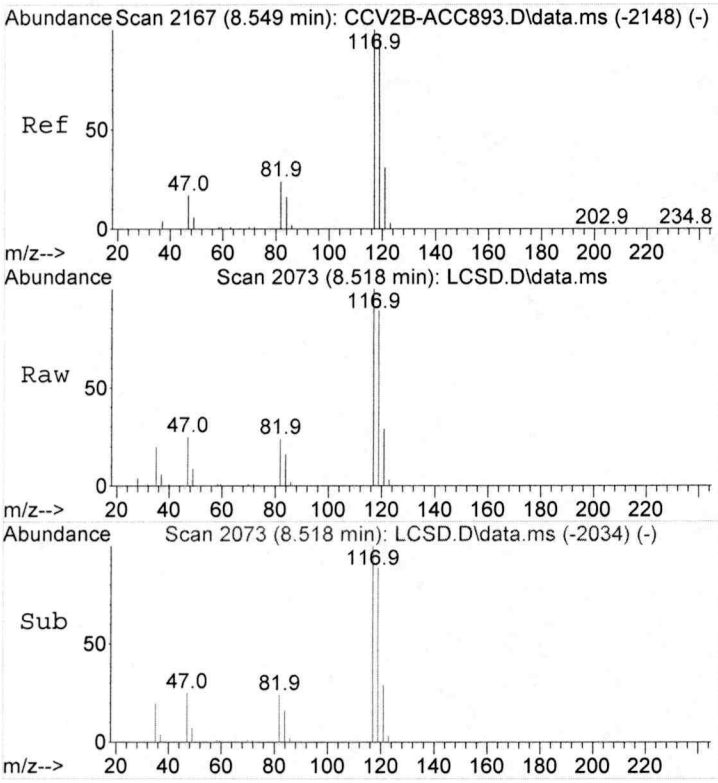


#39
Benzene
Concen: 9.251 ppbV
RT: 8.426 min Scan# 2040
Delta R.T. 0.009 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 78 Resp: 54379

Ion	Ratio	Lower	Upper
78	100		
77	25.0	0.0	54.2
50	24.2	0.0	50.5
51	23.7	0.0	51.1

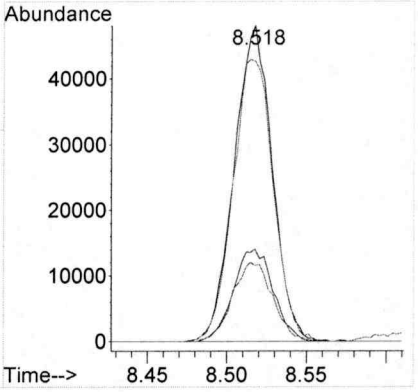


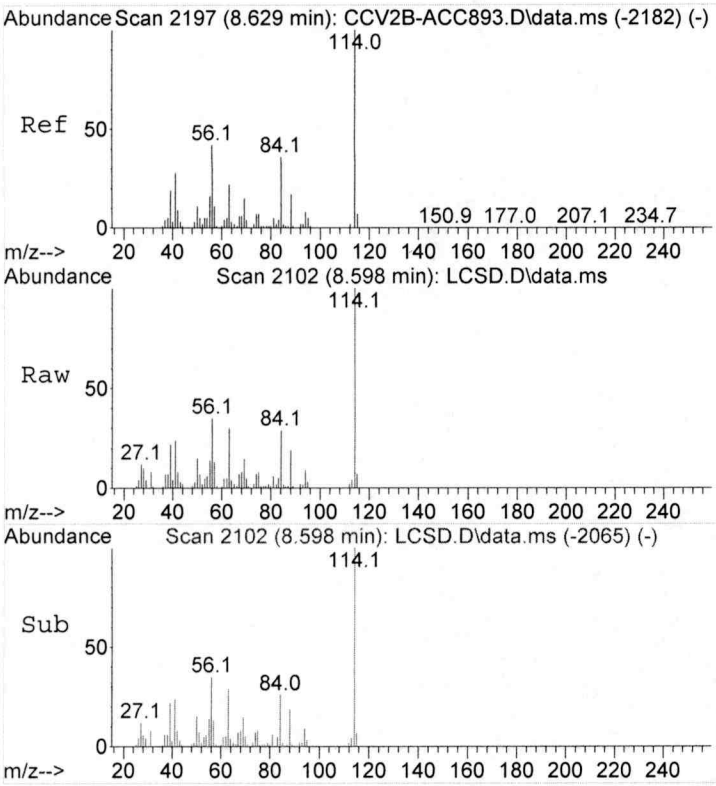


#40
Carbon Tetrachloride
Concen: 10.137 ppbV
RT: 8.518 min Scan# 2073
Delta R.T. 0.010 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:117 Resp: 80049

Ion	Ratio	Lower	Upper
117	100		
121	30.6	0.5	60.5
82	26.4	0.0	54.6
119	94.5	65.1	125.1

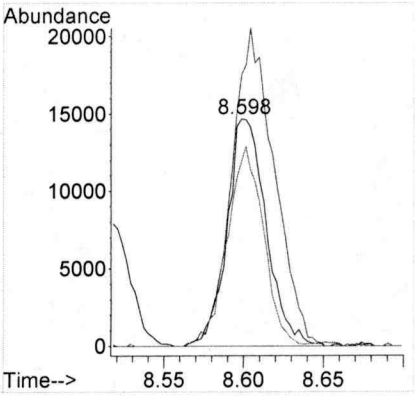


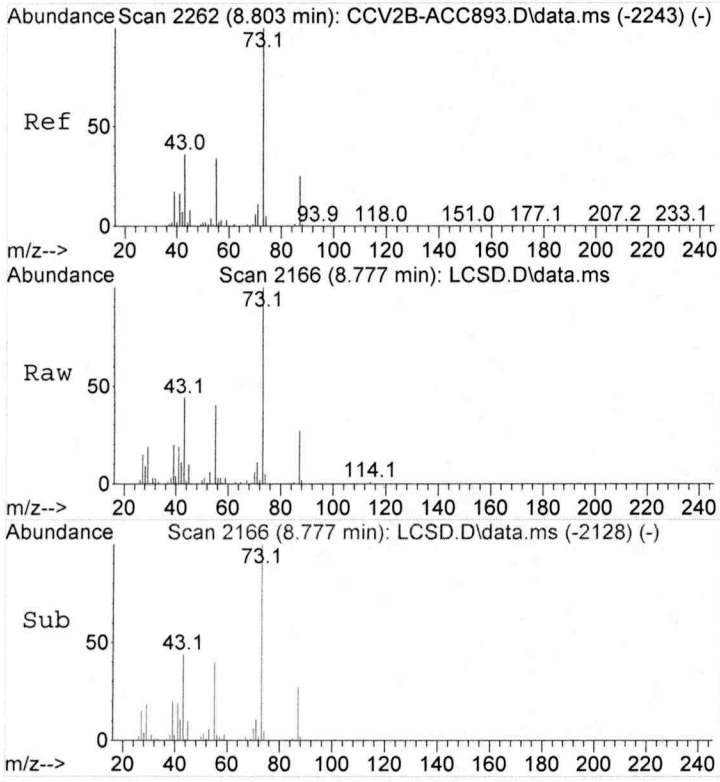


#42
Cyclohexane
Concen: 8.642 ppbV
RT: 8.598 min Scan# 2102
Delta R.T. 0.004 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 84 Resp: 25036

Ion	Ratio	Lower	Upper
84	100		
56	153.3	107.0	167.0
41	81.4	43.0	103.0

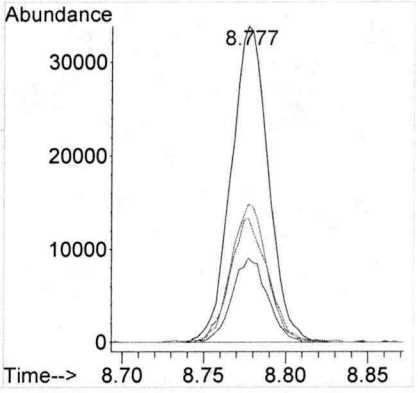


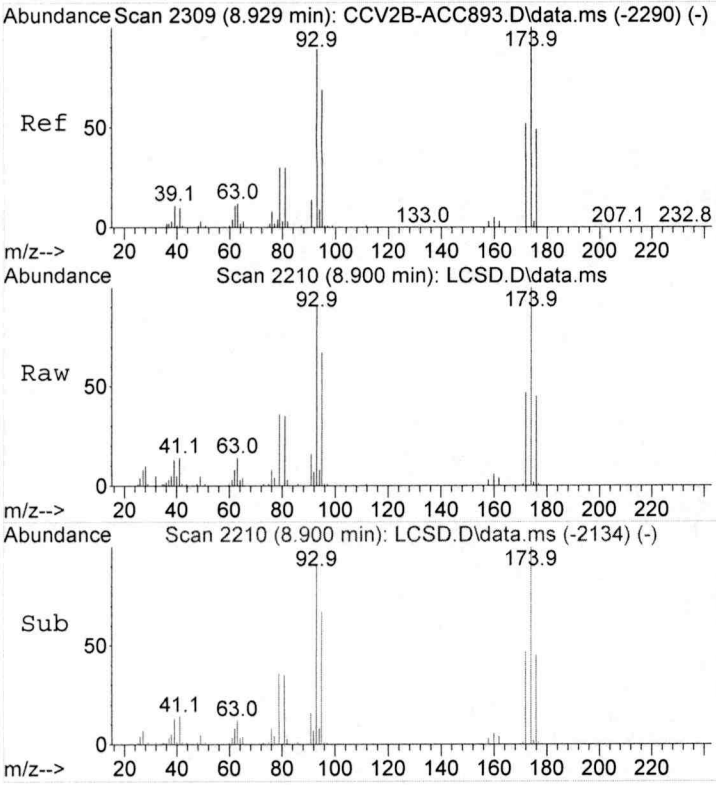


#43
tert-Amyl Methy Ether (TAME)
Concen: 8.956 ppbV
RT: 8.777 min Scan# 2166
Delta R.T. 0.006 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 73 Resp: 53403

Ion	Ratio	Lower	Upper
73	100		
87	25.5	0.0	55.8
55	38.9	0.0	59.9
43	44.1	8.4	68.4

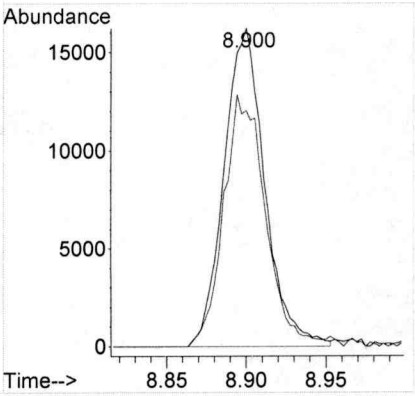


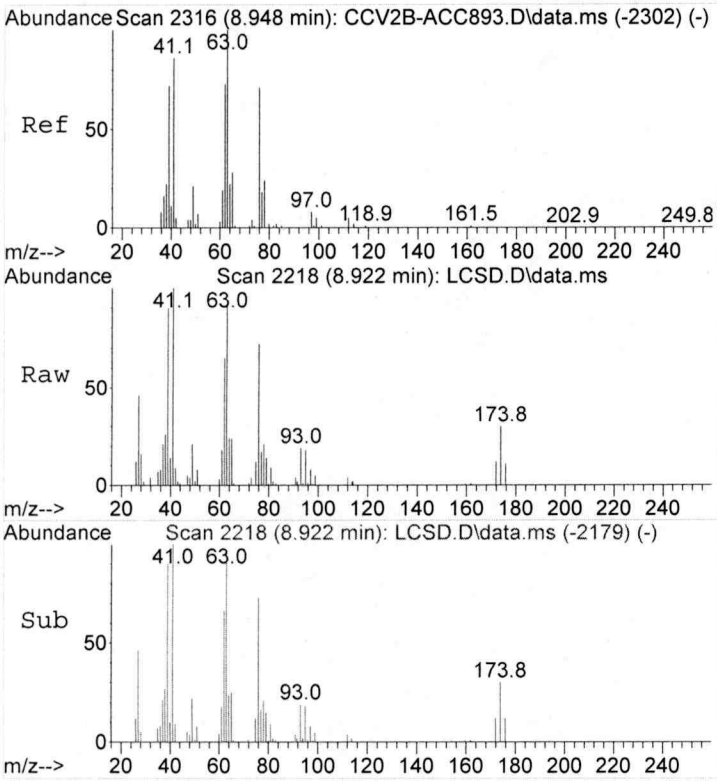


#44
Dibromomethane
Concen: 8.421 ppbV
RT: 8.900 min Scan# 2210
Delta R.T. 0.011 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 93 Resp: 28883

Ion	Ratio	Lower	Upper
93	100		
95	80.7	61.5	101.5

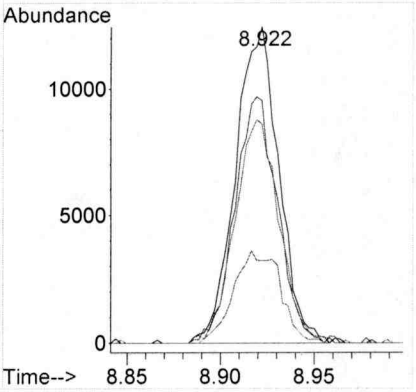


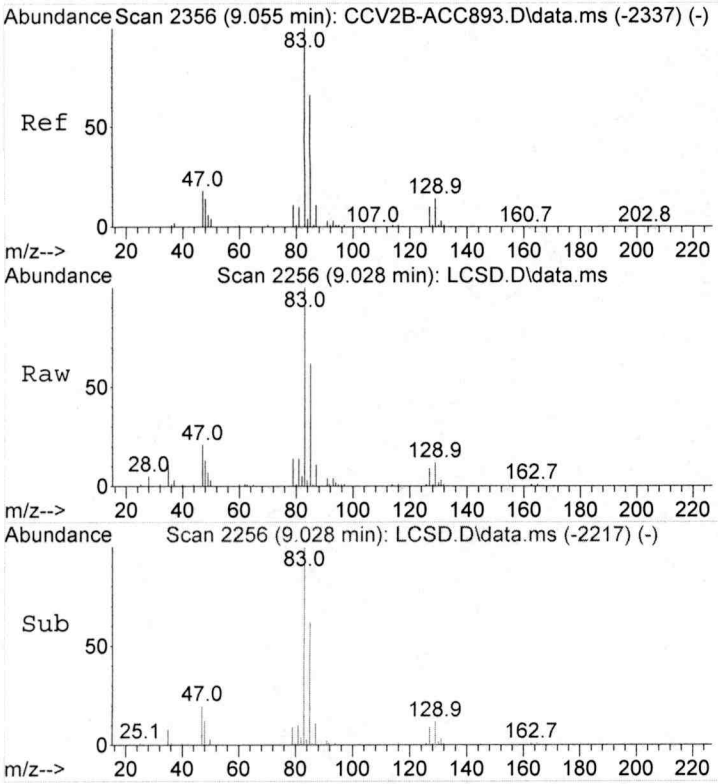


#45
1,2-Dichloropropane
Concen: 8.705 ppbV
RT: 8.922 min Scan# 2218
Delta R.T. 0.009 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 63 Resp: 19952

Ion	Ratio	Lower	Upper
63	100		
76	76.6	38.0	98.0
62	72.3	44.9	104.9
65	31.3	1.3	61.3

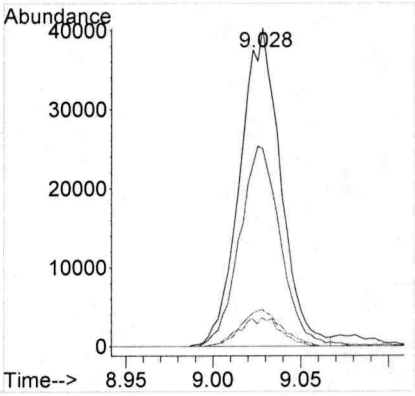


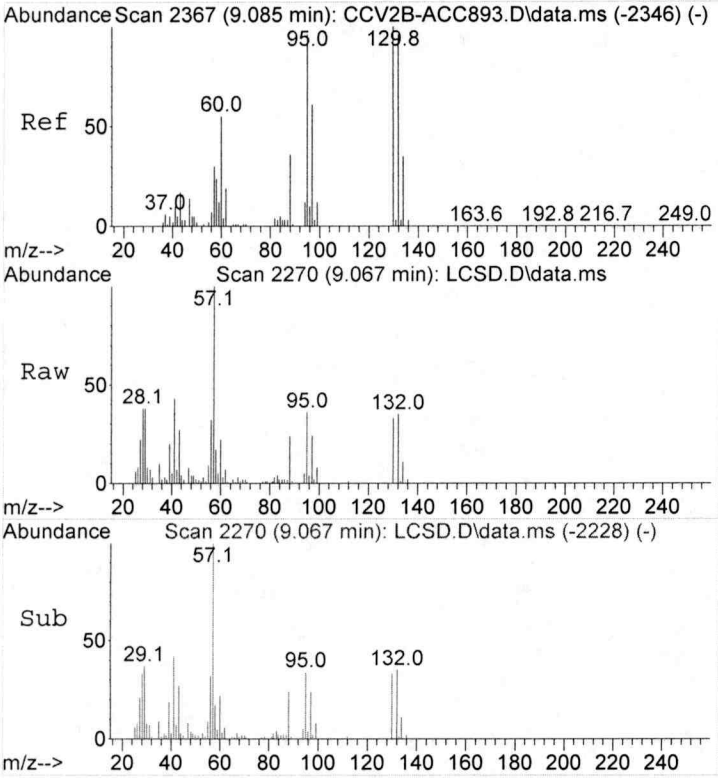


#46
Bromodichloromethane
Concen: 9.005 ppbV
RT: 9.028 min Scan# 2256
Delta R.T. 0.010 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 83 Resp: 64935

Ion	Ratio	Lower	Upper
83	100		
85	63.7	31.1	91.1
127	4.3	0.0	38.9
129	11.8	0.0	41.6

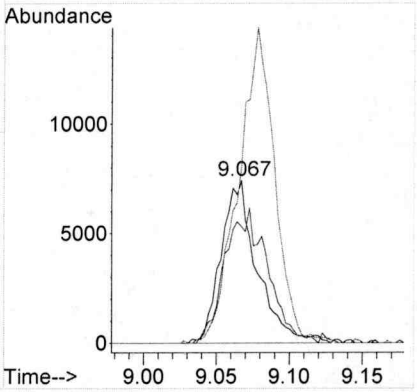


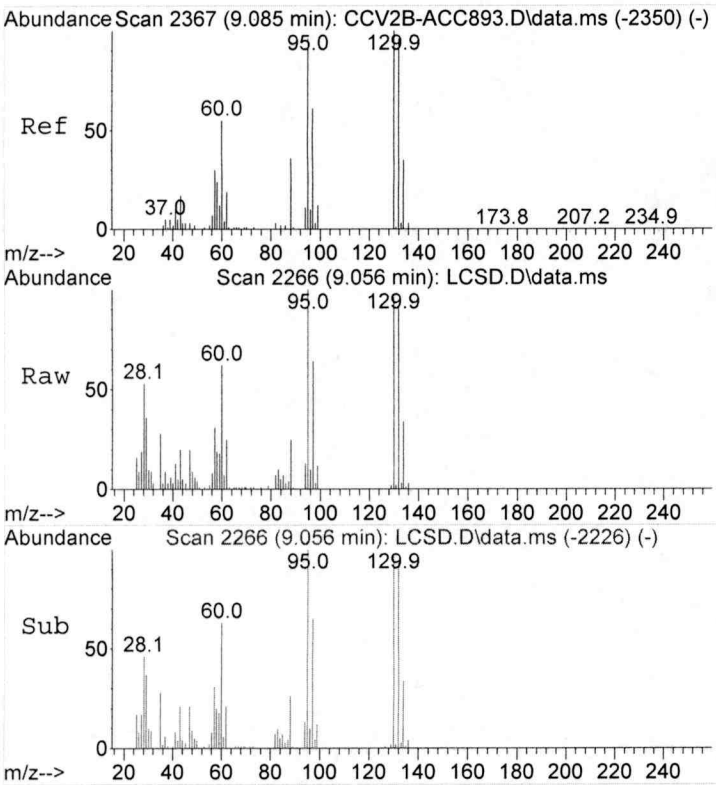


#47
1,4-Dioxane
Concen: 7.593 ppbV
RT: 9.067 min Scan# 2270
Delta R.T. 0.017 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 88 Resp: 12693

Ion	Ratio	Lower	Upper
88	100		
58	97.3	70.1	130.1
43	195.4	148.9	208.9

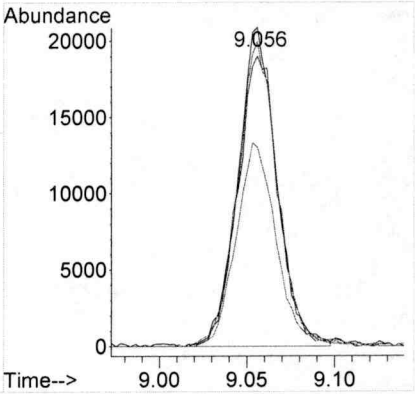


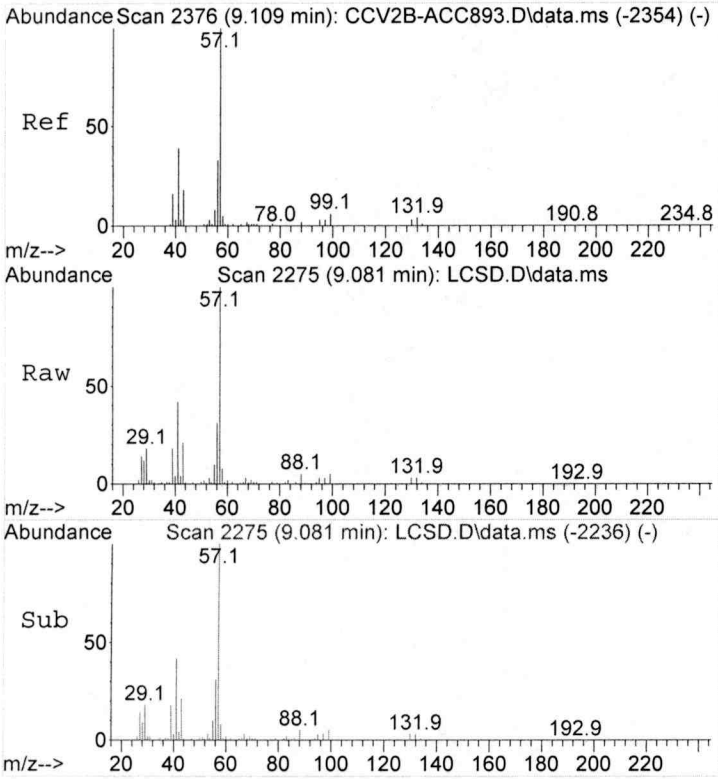


#48
Trichloroethene
Concen: 8.514 ppbV
RT: 9.056 min Scan# 2266
Delta R.T. 0.011 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 95 Resp: 32418

Ion	Ratio	Lower	Upper
95	100		
132	94.6	70.0	130.0
60	65.4	28.7	88.7
130	97.7	75.0	135.0

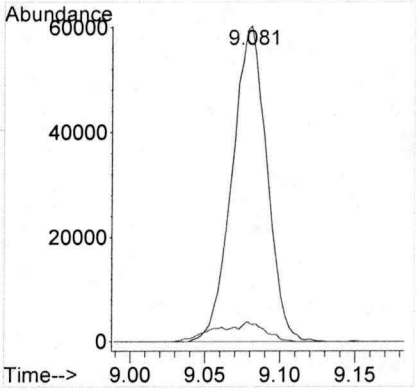


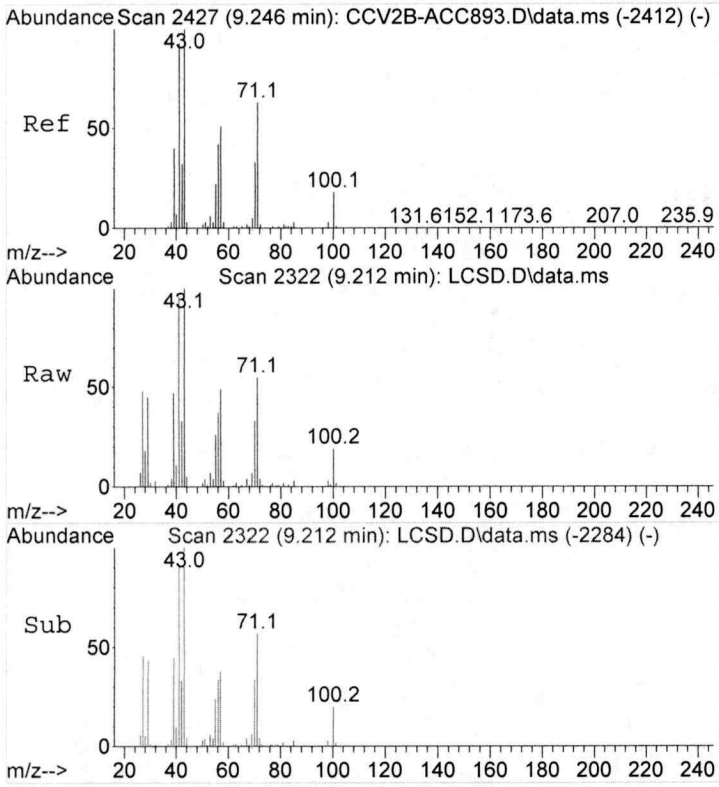


#49
2,2,4 Trimethylpentane
Concen: 9.887 ppbV
RT: 9.081 min Scan# 2275
Delta R.T. 0.009 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 57 Resp: 97239

Ion	Ratio	Lower	Upper
57	100		
99	4.1	7.0	10.4#

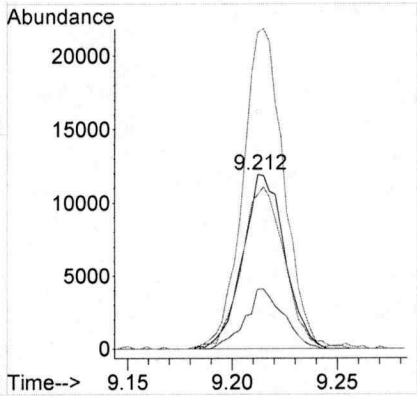


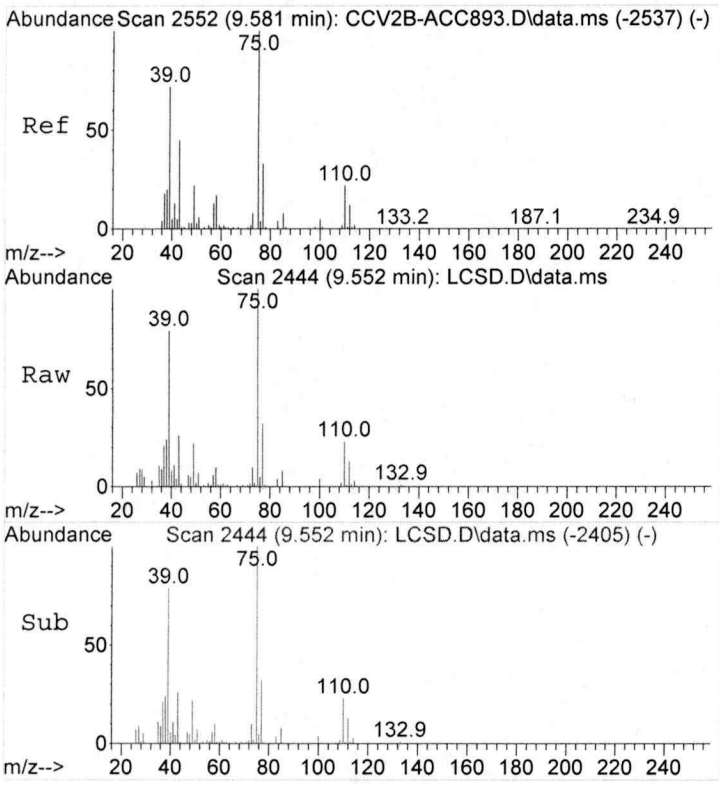


#50
Heptane
Concen: 8.981 ppbV
RT: 9.212 min Scan# 2322
Delta R.T. 0.006 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 71 Resp: 16650

Ion	Ratio	Lower	Upper
71	100		
100	31.2	1.2	61.2
57	93.9	61.4	121.4
43	179.0	139.4	199.4

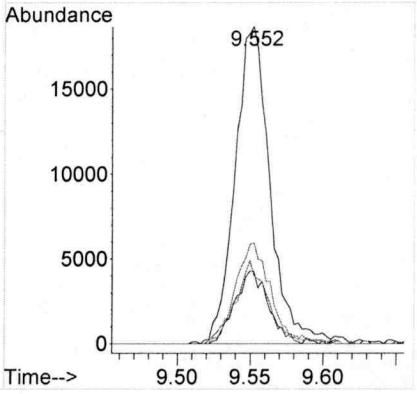


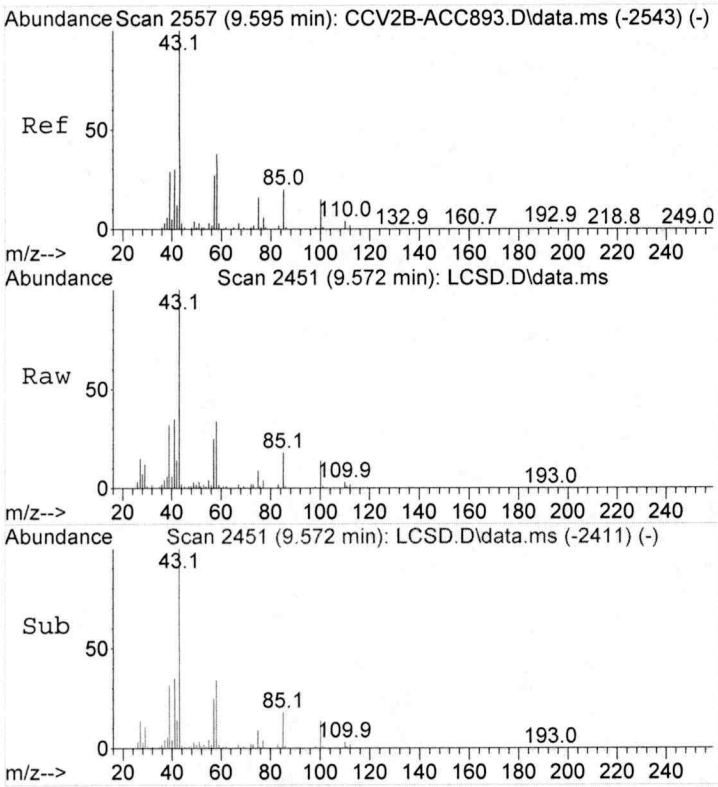


#51
cis-1,3-Dichloropropene
Concen: 8.316 ppbV
RT: 9.552 min Scan# 2444
Delta R.T. 0.008 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 75 Resp: 31092

Ion	Ratio	Lower	Upper
75	100		
110	22.2	0.0	51.2
49	24.3	0.0	51.7
77	31.8	1.6	61.6

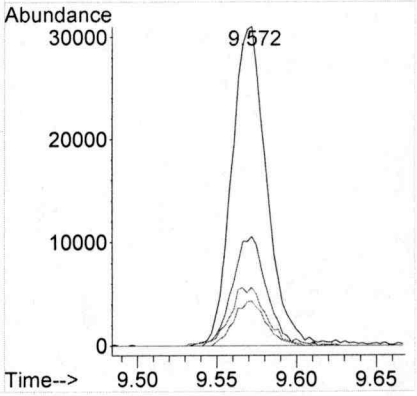


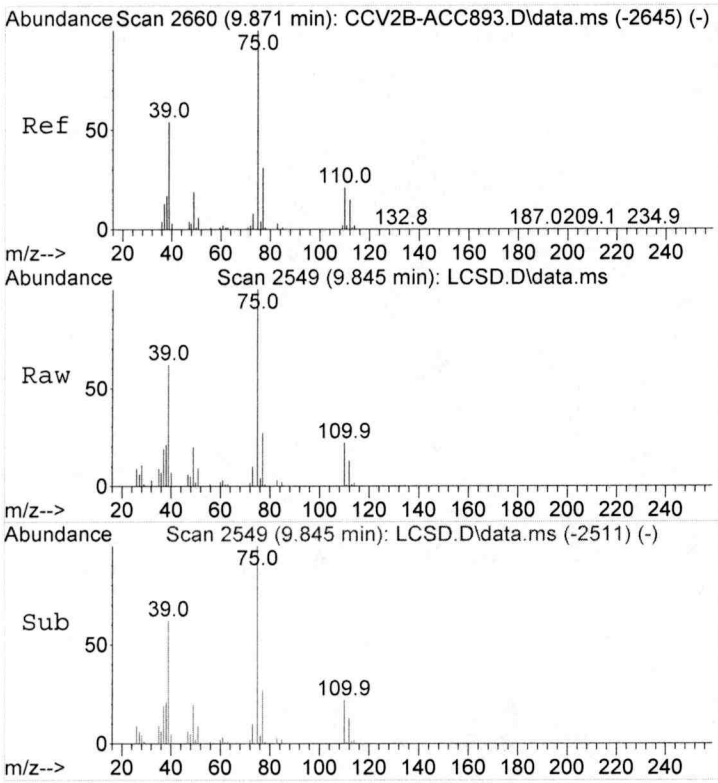


#52
4-Methyl-2-Pentanone
Concen: 9.373 ppbV
RT: 9.572 min Scan# 2451
Delta R.T. 0.012 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 43 Resp: 47394

Ion	Ratio	Lower	Upper
43	100		
58	33.5	5.8	65.8
85	18.9	0.0	47.9
100	12.9	0.0	44.7

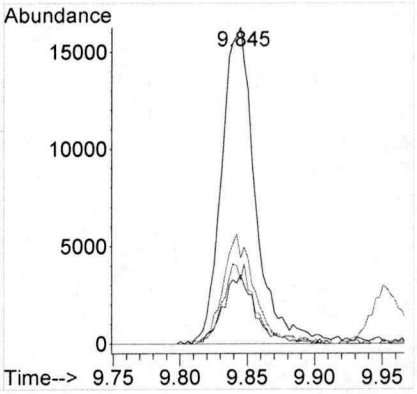


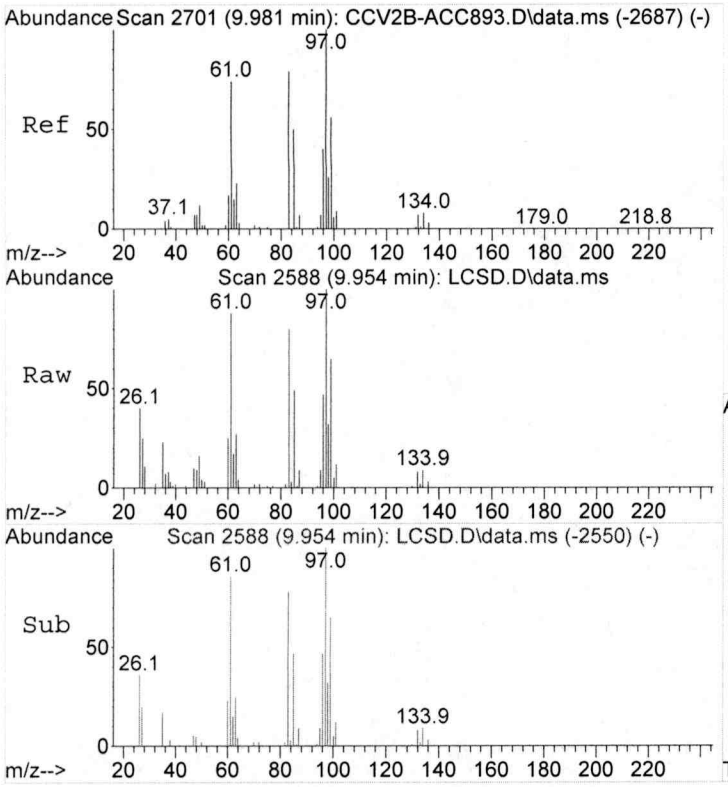


#53
trans-1,3-Dichloropropene
Concen: 7.819 ppbV
RT: 9.845 min Scan# 2549
Delta R.T. 0.006 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 75 Resp: 28395

Ion	Ratio	Lower	Upper
75	100		
110	20.7	0.0	50.8
49	23.9	0.0	51.0
77	31.9	2.1	62.1

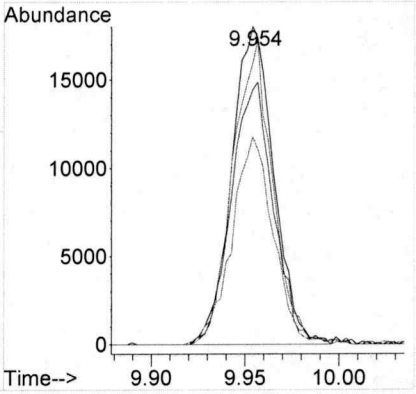


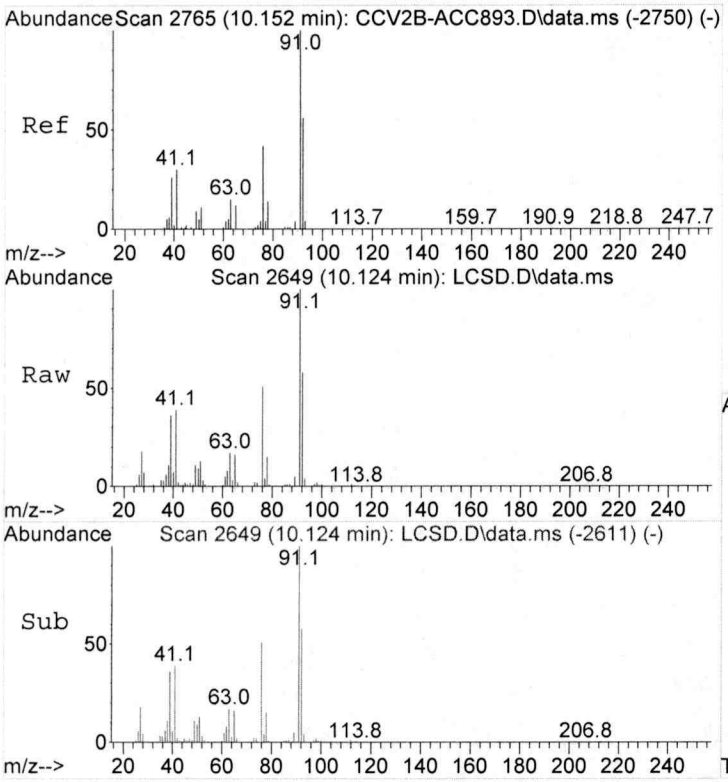


#54
1,1,2-Trichloroethane
Concen: 8.126 ppbV
RT: 9.954 min Scan# 2588
Delta R.T. 0.005 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 97 Resp: 28197

Ion	Ratio	Lower	Upper
97	100		
83	82.6	52.3	112.3
61	90.9	48.8	108.8
99	63.1	32.0	92.0

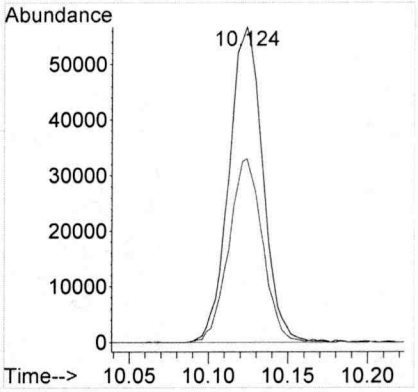


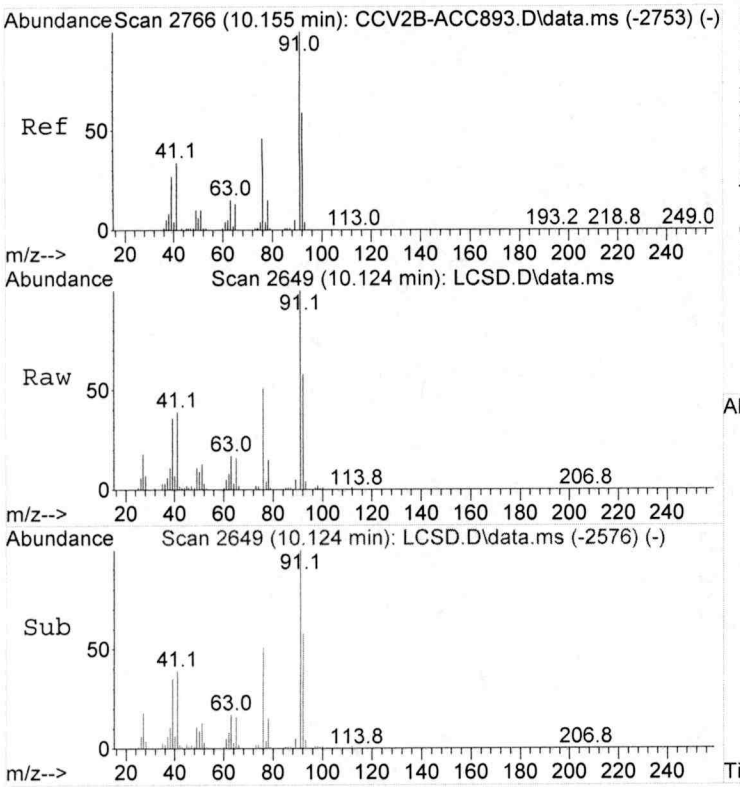


#56
Toluene
Concen: 7.930 ppbV
RT: 10.124 min Scan# 2649
Delta R.T. 0.006 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 91 Resp: 83887

Ion	Ratio	Lower	Upper
91	100		
92	58.0	28.5	88.5

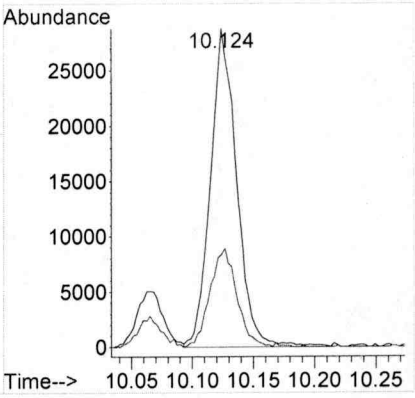


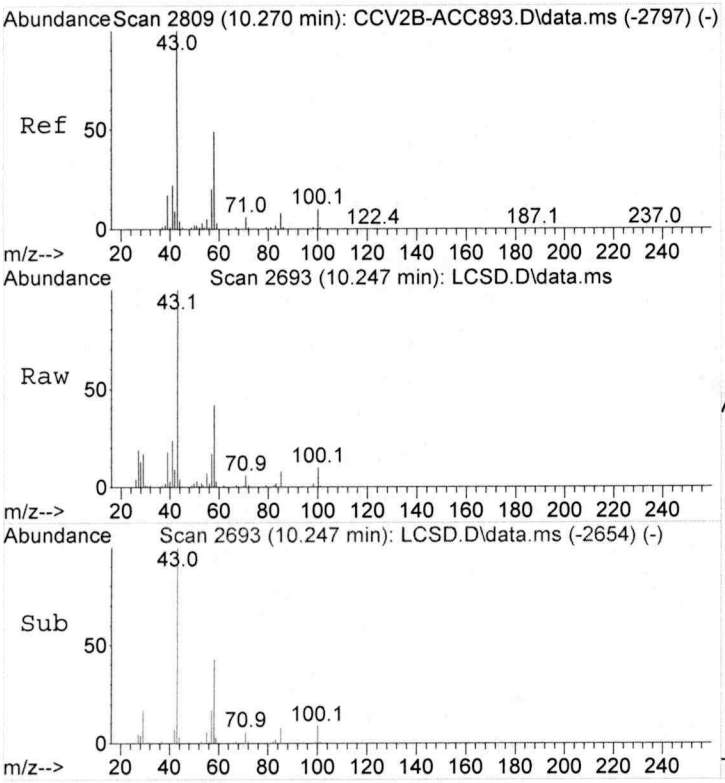


#57
1,3 Dichloropropane
Concen: 8.637 ppbV
RT: 10.124 min Scan# 2649
Delta R.T. 0.004 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 76 Resp: 42924

Ion	Ratio	Lower	Upper
76	100		
78	31.8	13.2	53.2

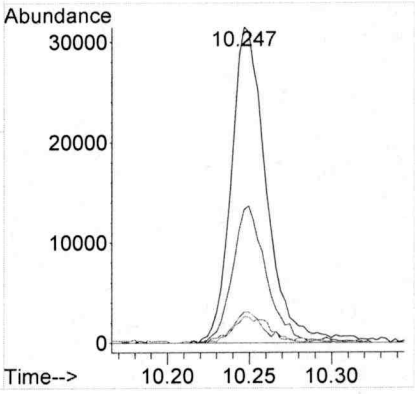


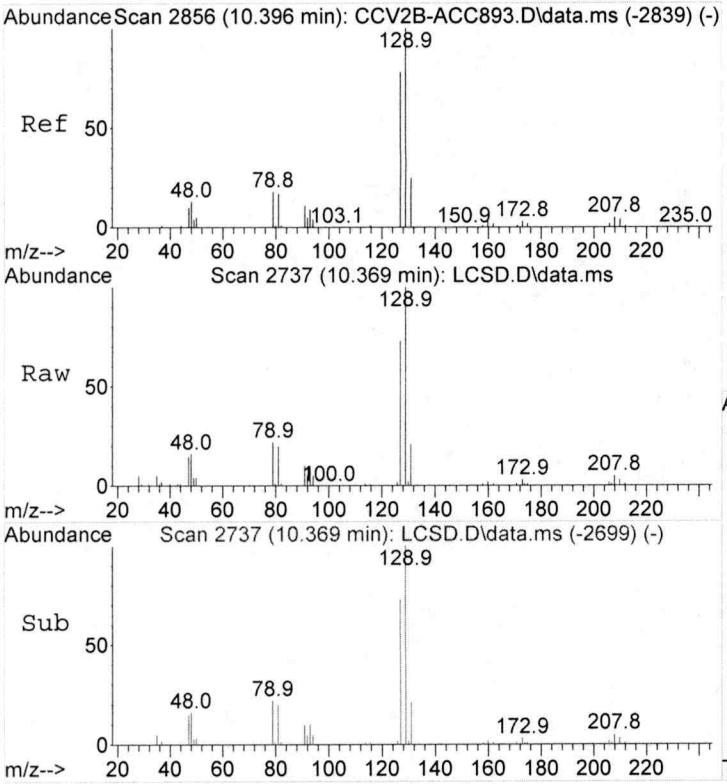


#58
2-Hexanone
Concen: 8.754 ppbV
RT: 10.247 min Scan# 2693
Delta R.T. 0.009 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 43 Resp: 46496

Ion	Ratio	Lower	Upper
43	100		
58	42.0	18.3	78.3
85	8.1	0.0	38.6
100	10.1	0.0	39.7

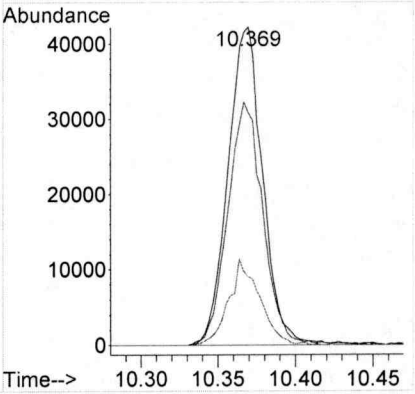


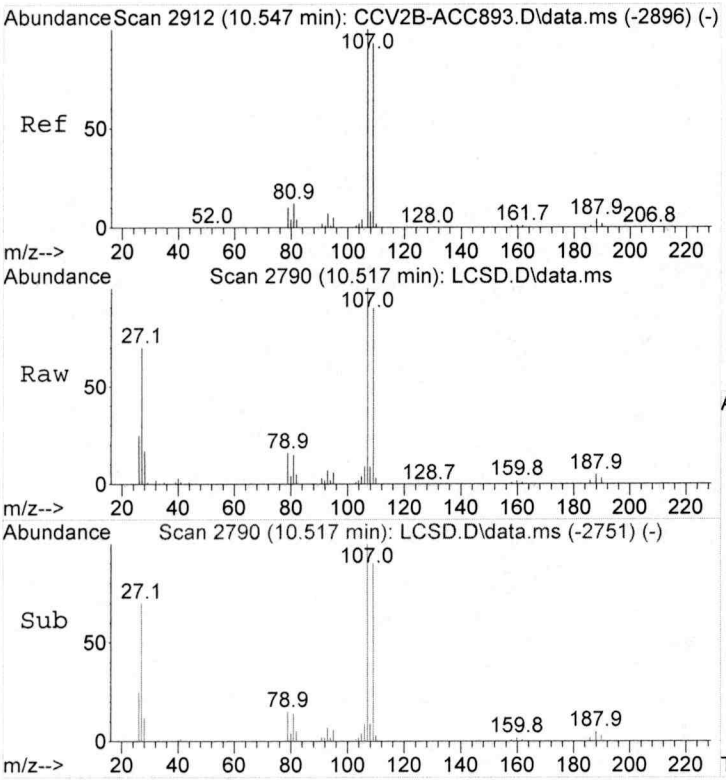


#59
Dibromochloromethane
Concen: 8.218 ppbV
RT: 10.369 min Scan# 2737
Delta R.T. 0.005 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:129 Resp: 65456

Ion	Ratio	Lower	Upper
129	100		
127	77.1	46.7	106.7
131	24.0	0.0	54.3

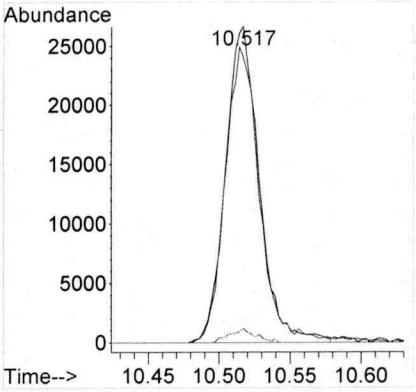


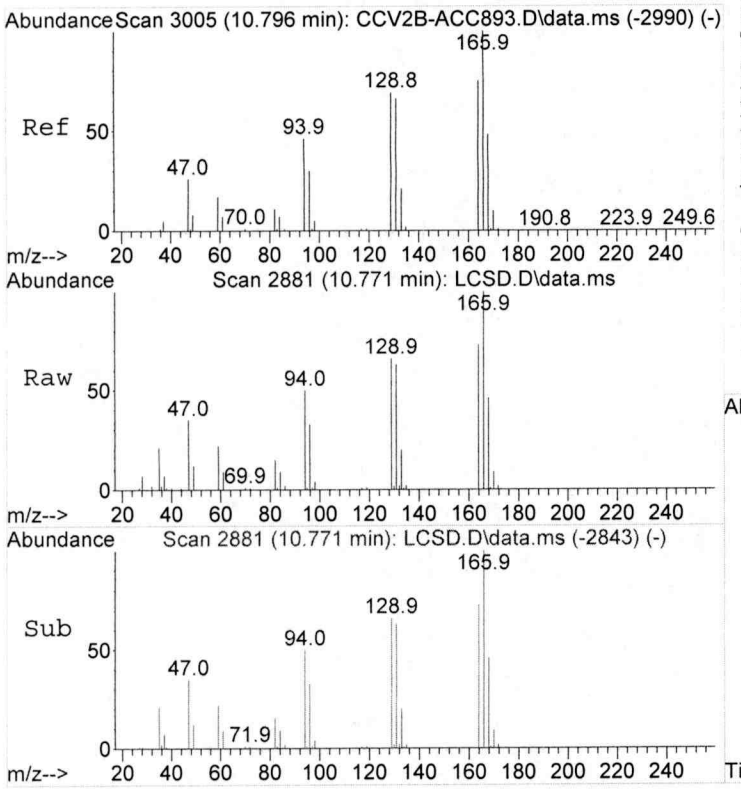


#60
1,2-Dibromoethane (EDB)
Concen: 7.827 ppbV
RT: 10.517 min Scan# 2790
Delta R.T. 0.008 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:107 Resp: 43966

Ion	Ratio	Lower	Upper
107	100		
109	92.1	66.9	126.9
188	3.4	0.0	33.8

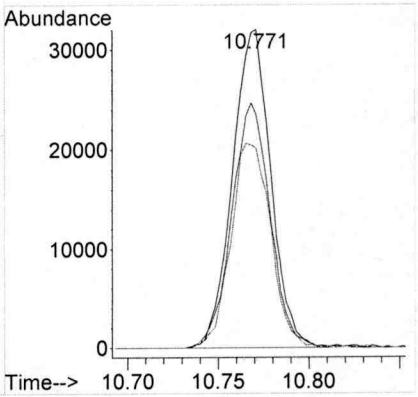


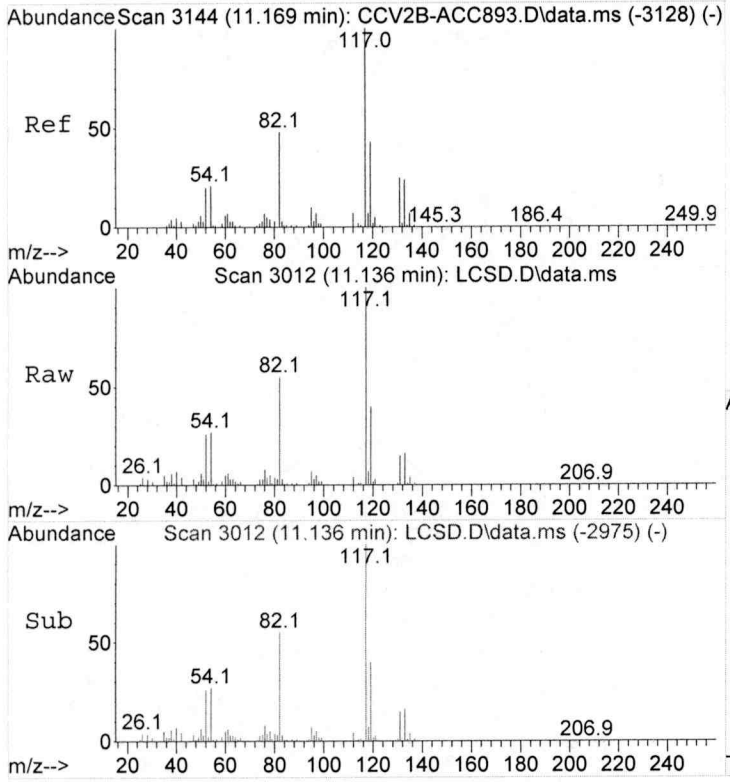


#61
Tetrachloroethene
Concen: 7.585 ppbV
RT: 10.771 min Scan# 2881
Delta R.T. 0.007 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:166 Resp: 47098

Ion	Ratio	Lower	Upper
166	100		
164	77.2	47.1	107.1
131	67.1	37.3	97.3

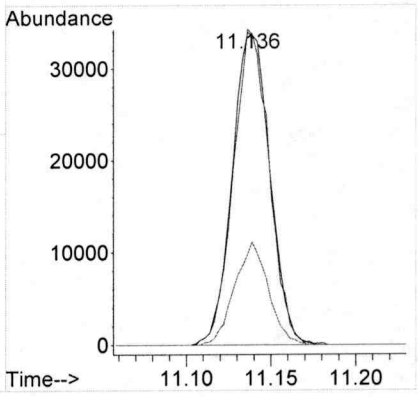


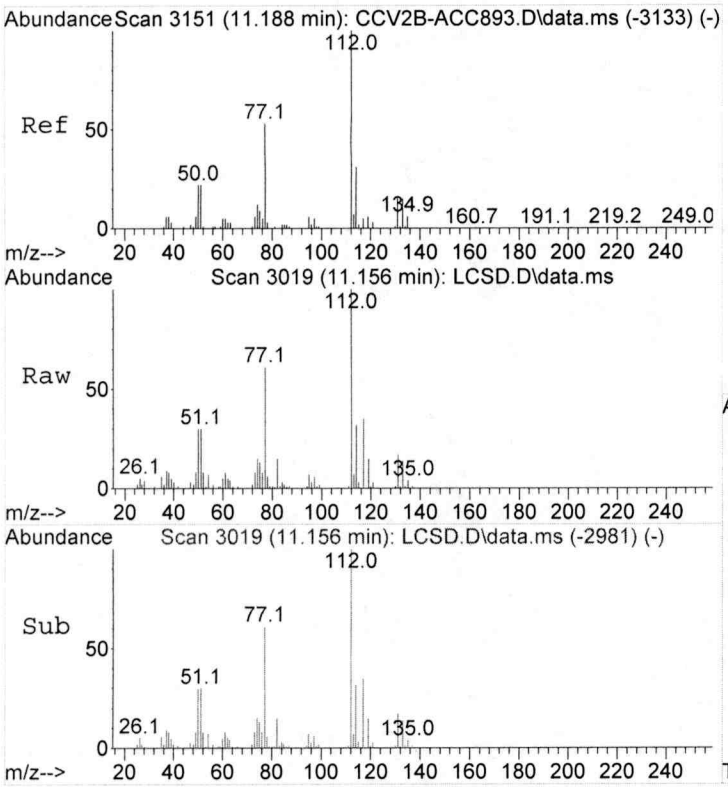


#62
1,1,1,2-Tetrachloroethane
Concen: 7.706 ppbV
RT: 11.136 min Scan# 3012
Delta R.T. 0.002 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:131 Resp: 52192

Ion	Ratio	Lower	Upper
131	100		
133	96.2	74.9	114.9
135	29.3	10.5	50.5

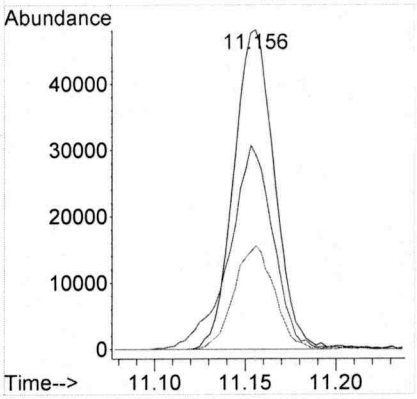


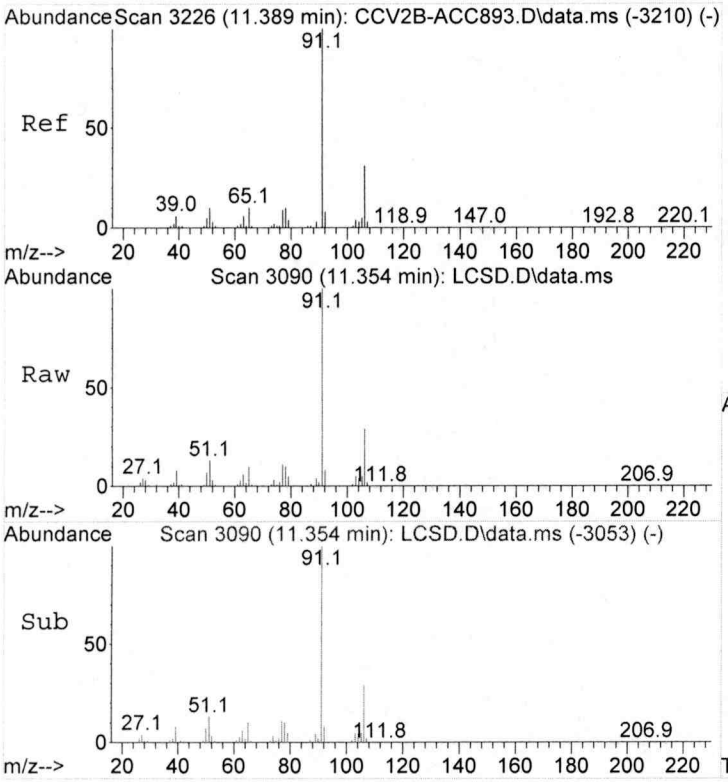


#64
Chlorobenzene
Concen: 7.593 ppbV
RT: 11.156 min Scan# 3019
Delta R.T. 0.006 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:112 Resp: 74880

Ion	Ratio	Lower	Upper
112	100		
77	69.1	35.2	95.2
114	32.3	2.4	62.4

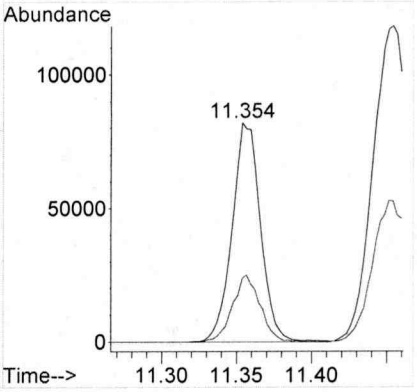


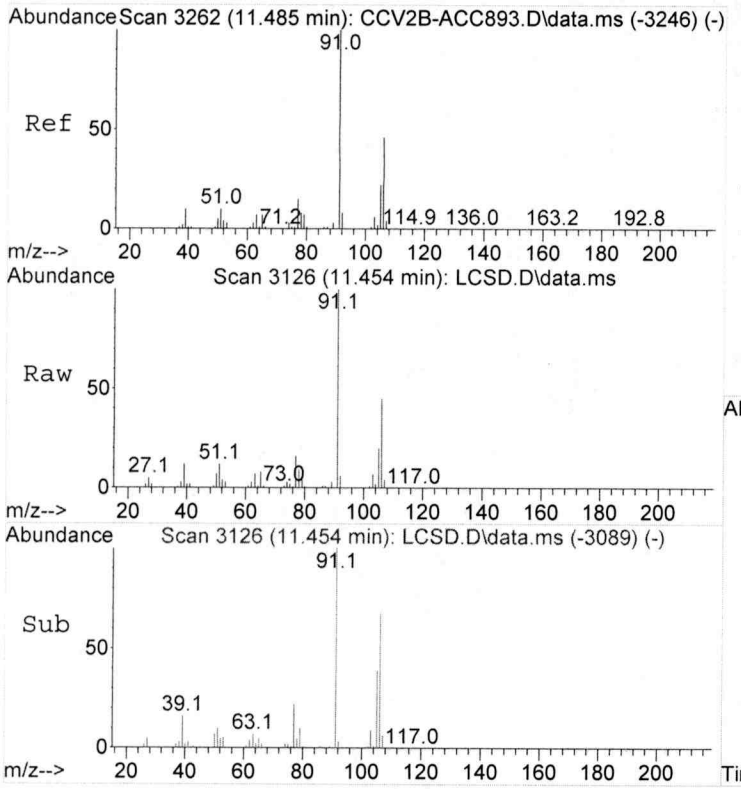


#65
Ethylbenzene
Concen: 8.626 ppbV
RT: 11.354 min Scan# 3090
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 91 Resp: 107827

Ion	Ratio	Lower	Upper
91	100		
106	29.6	0.0	59.5

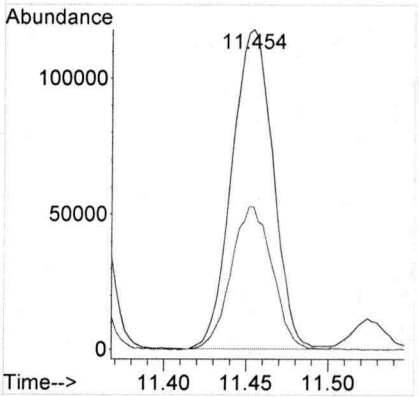


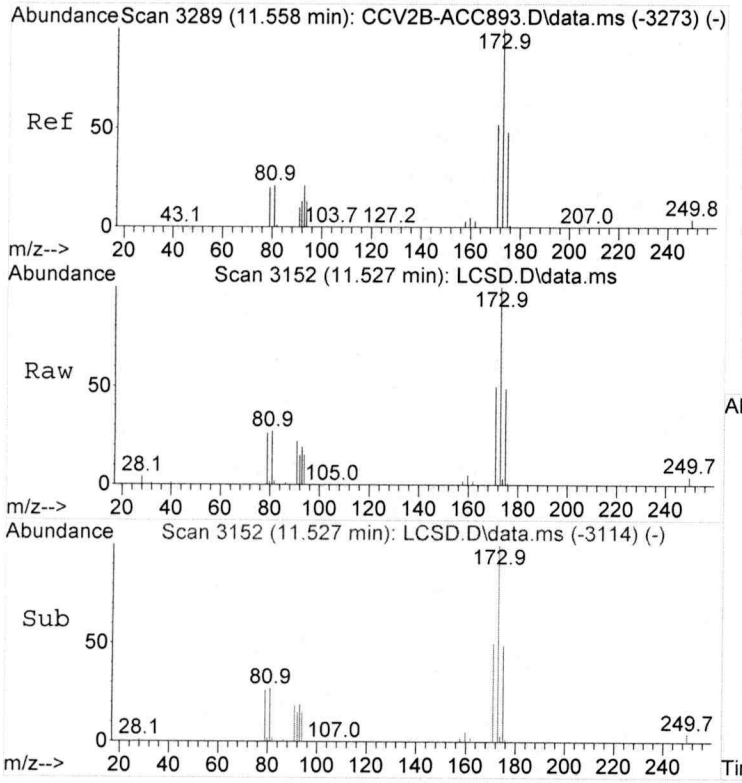


#66
m,p-Xylene
Concen: 17.833 ppbV
RT: 11.454 min Scan# 3126
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 91 Resp: 206223

Ion	Ratio	Lower	Upper
91	100		
106	44.7	16.6	76.6

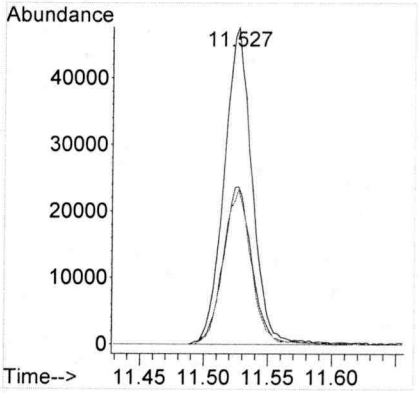


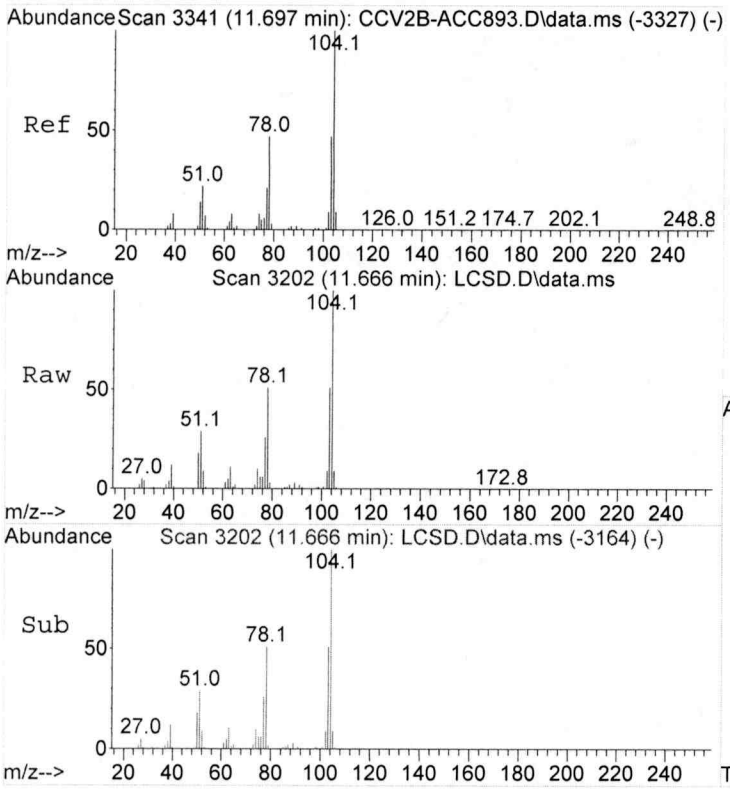


#67
Bromoform
Concen: 7.686 ppbV
RT: 11.527 min Scan# 3152
Delta R.T. 0.007 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:173 Resp: 72250

Ion	Ratio	Lower	Upper
173	100		
171	50.9	20.9	80.9
175	48.9	19.1	79.1

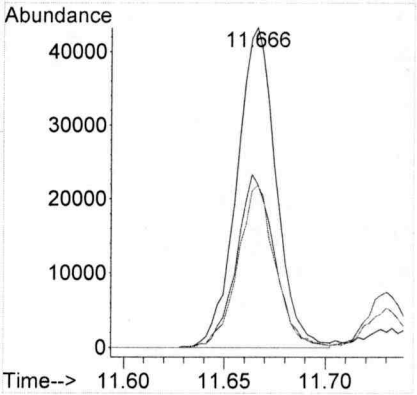


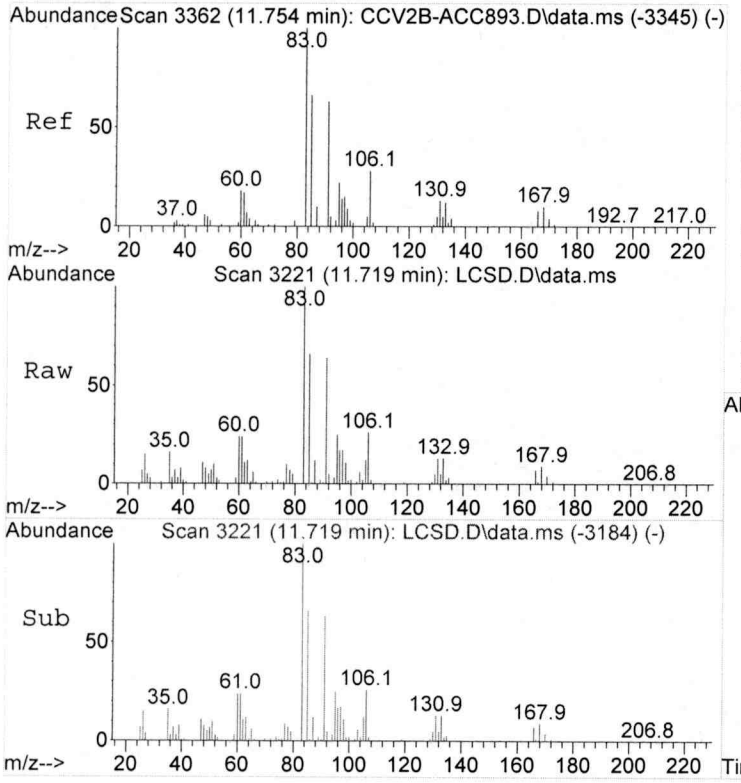


#68
Styrene
Concen: 8.055 ppbV
RT: 11.666 min Scan# 3202
Delta R.T. 0.006 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:104 Resp: 58062

Ion	Ratio	Lower	Upper
104	100		
78	52.4	20.0	80.0
103	48.5	16.8	76.8

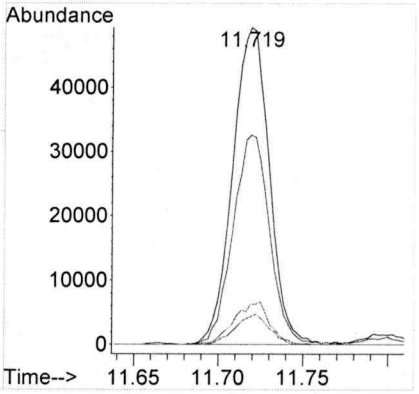


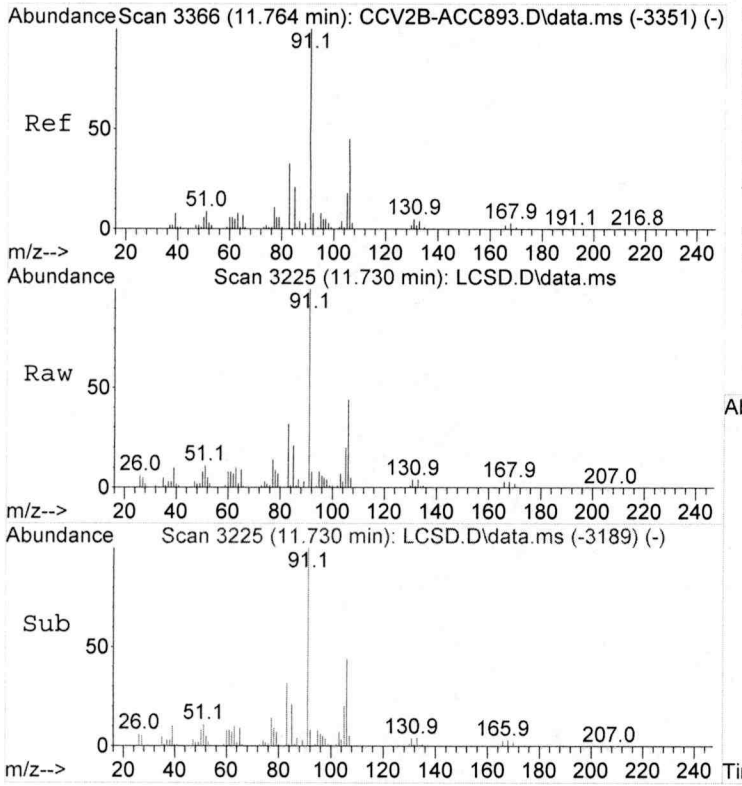


#69
1,1,2,2-Tetrachloroethane
Concen: 7.539 ppbV
RT: 11.719 min Scan# 3221
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 83 Resp: 74156

Ion	Ratio	Lower	Upper
83	100		
85	66.1	34.8	94.8
168	8.9	0.0	38.8
131	12.9	0.0	42.5

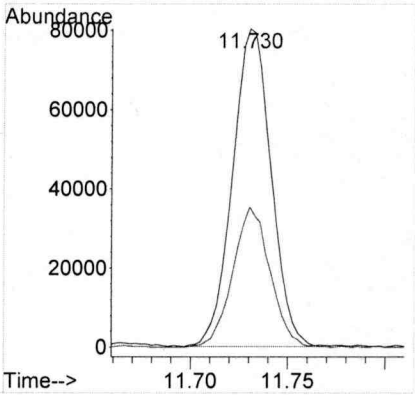


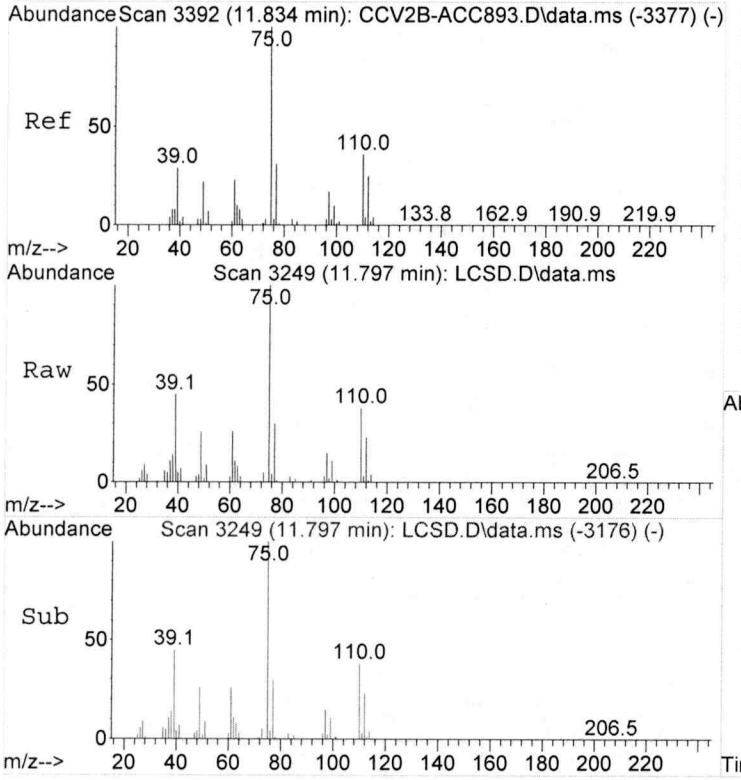


#70
o-Xylene
Concen: 8.741 ppbV
RT: 11.730 min Scan# 3225
Delta R.T. 0.000 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 91 Resp: 110428

Ion	Ratio	Lower	Upper
91	100		
106	42.8	13.1	73.1

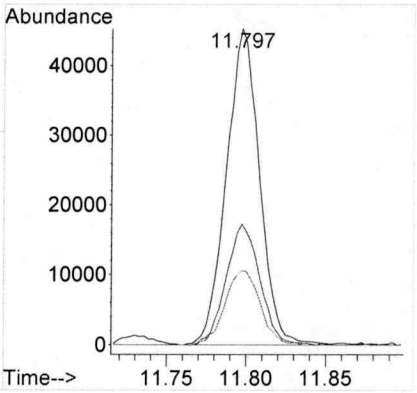


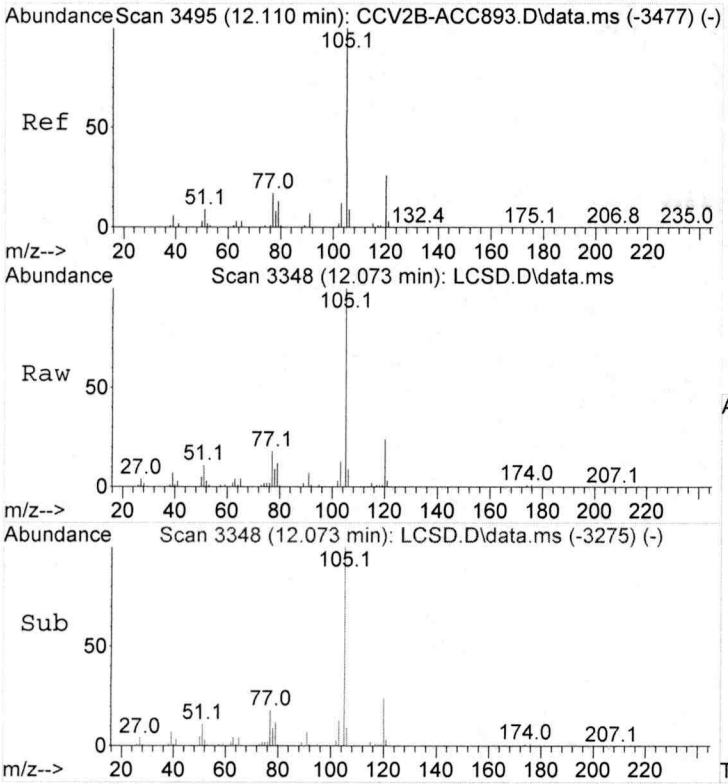


#71
1,2,3-Trichloropropane
Concen: 7.908 ppbV
RT: 11.797 min Scan# 3249
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 75 Resp: 65489

Ion	Ratio	Lower	Upper
75	100		
110	38.8	19.4	59.4
112	24.6	5.5	45.5

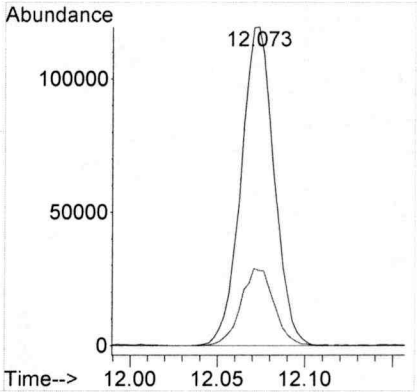


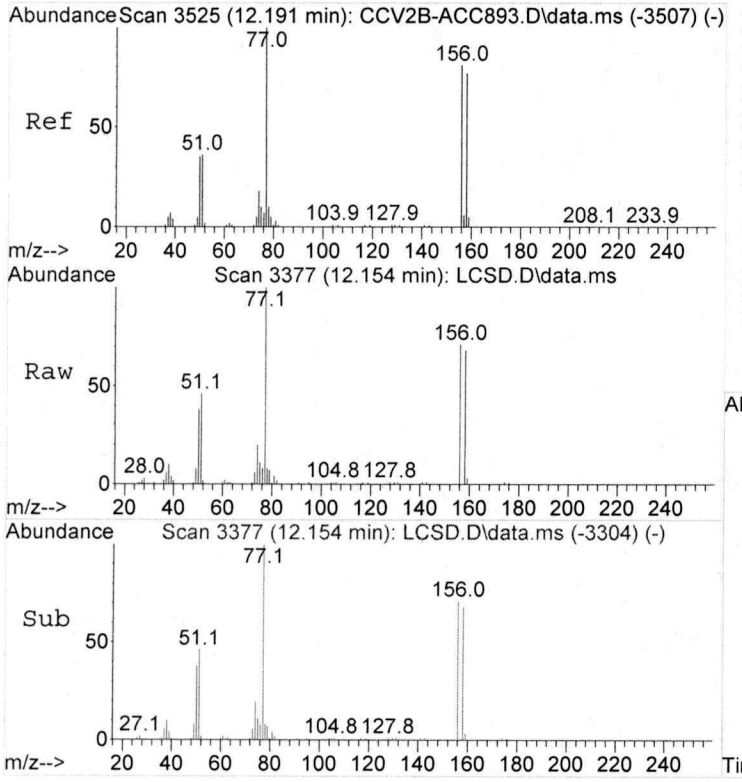


#73
Isopropylbenzene
Concen: 8.189 ppbV
RT: 12.073 min Scan# 3348
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:105 Resp: 156507

Ion	Ratio	Lower	Upper
105	100		
120	24.3	5.0	45.0

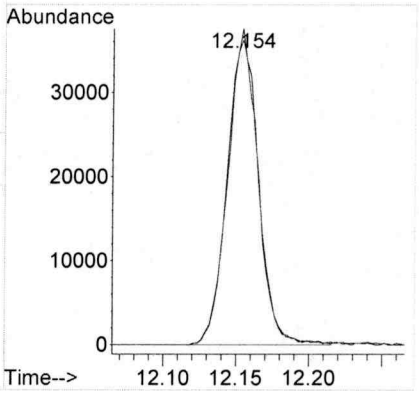


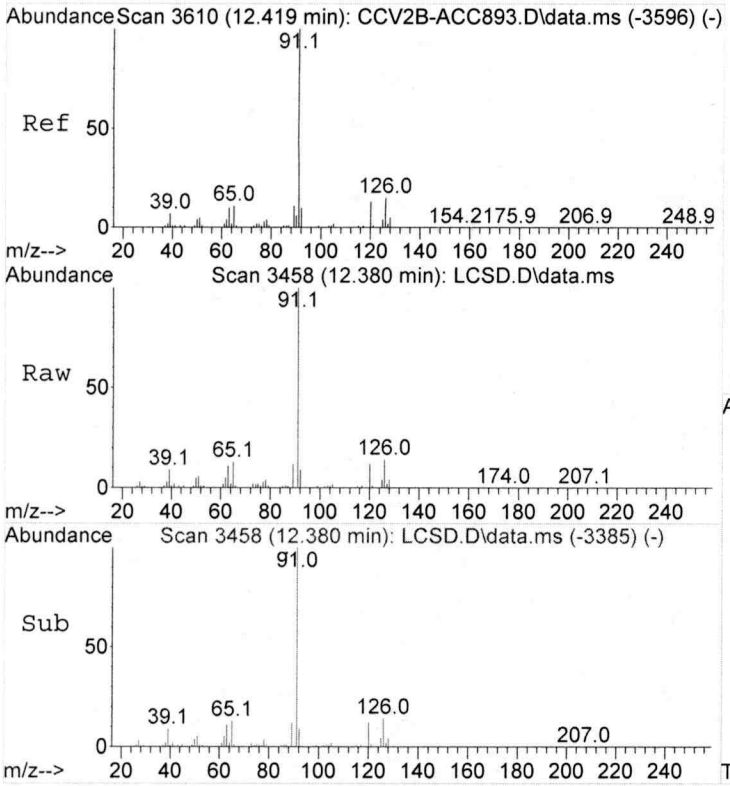


#74
Bromobenzene
Concen: 7.619 ppbV
RT: 12.154 min Scan# 3377
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:156 Resp: 54865

Ion	Ratio	Lower	Upper
156	100		
158	97.7	78.1	118.1

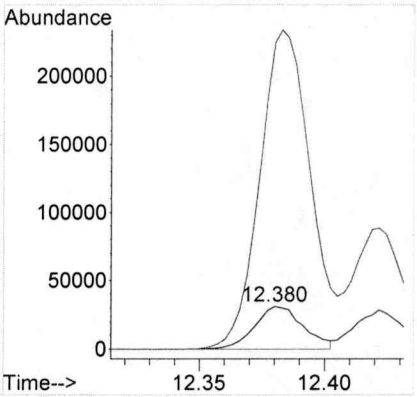


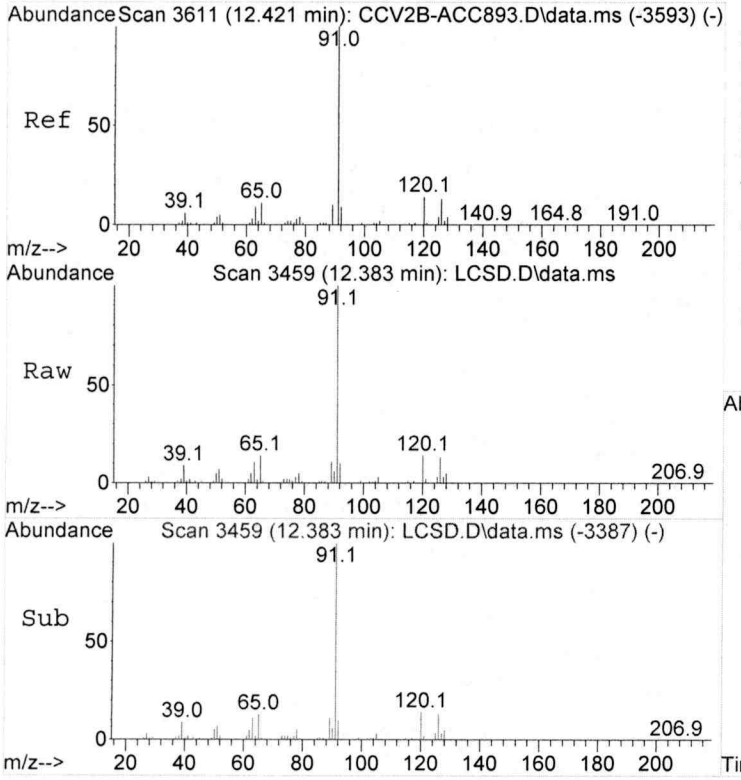


#75
2-Chlorotoluene
Concen: 8.171 ppbV
RT: 12.380 min Scan# 3458
Delta R.T. 0.004 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:126 Resp: 42202

Ion	Ratio	Lower	Upper
126	100		
91	777.5	760.9	800.9

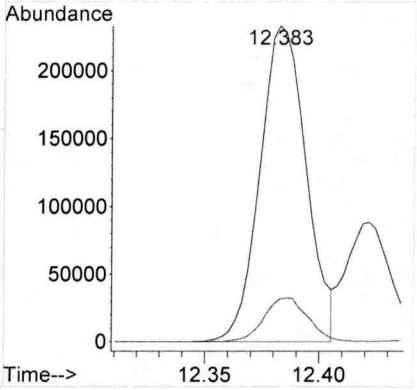


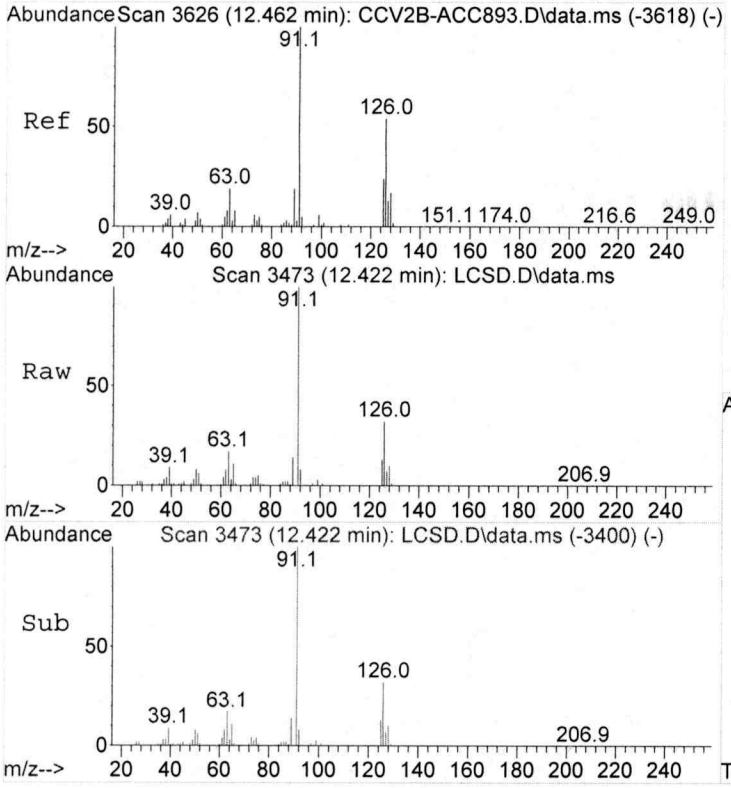


#76
n-Propylbenzene
Concen: 8.381 ppbV
RT: 12.383 min Scan# 3459
Delta R.T. 0.002 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 91 Resp: 328131

Ion	Ratio	Lower	Upper
91	100		
120	13.3	0.0	33.8

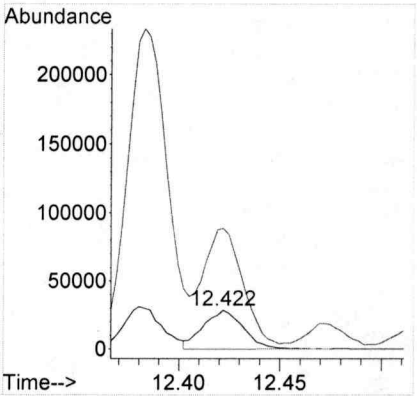


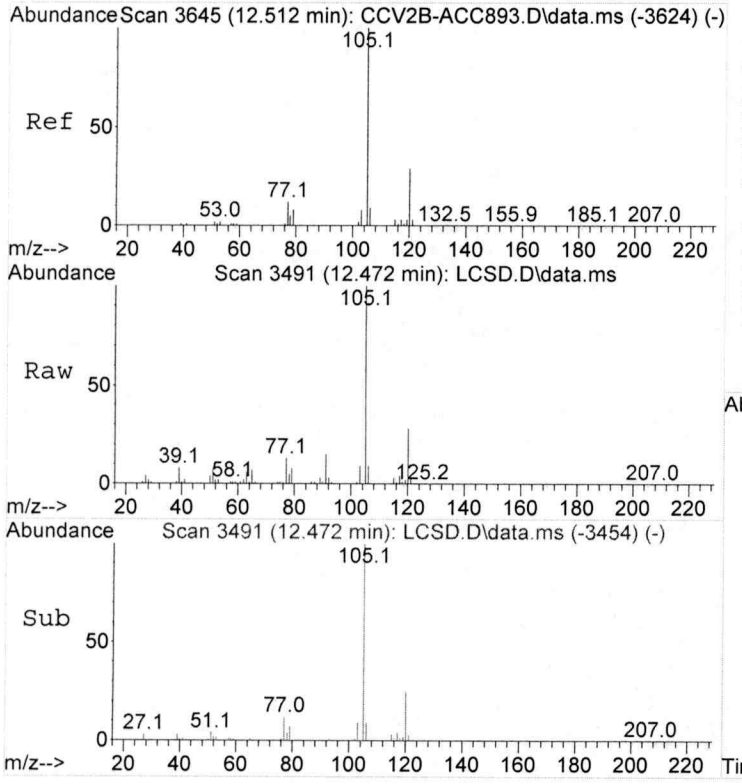


#77
4-Chlorotoluene
Concen: 7.965 ppbV
RT: 12.422 min Scan# 3473
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:126 Resp: 38979

Ion	Ratio	Lower	Upper
126	100		
91	318.5	266.3	306.3#

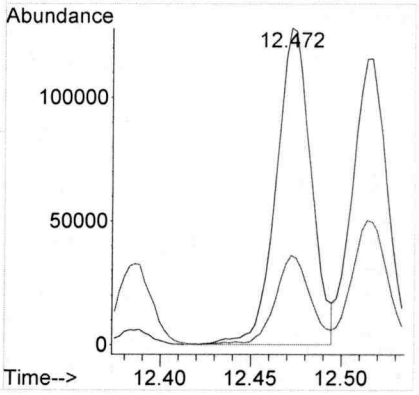


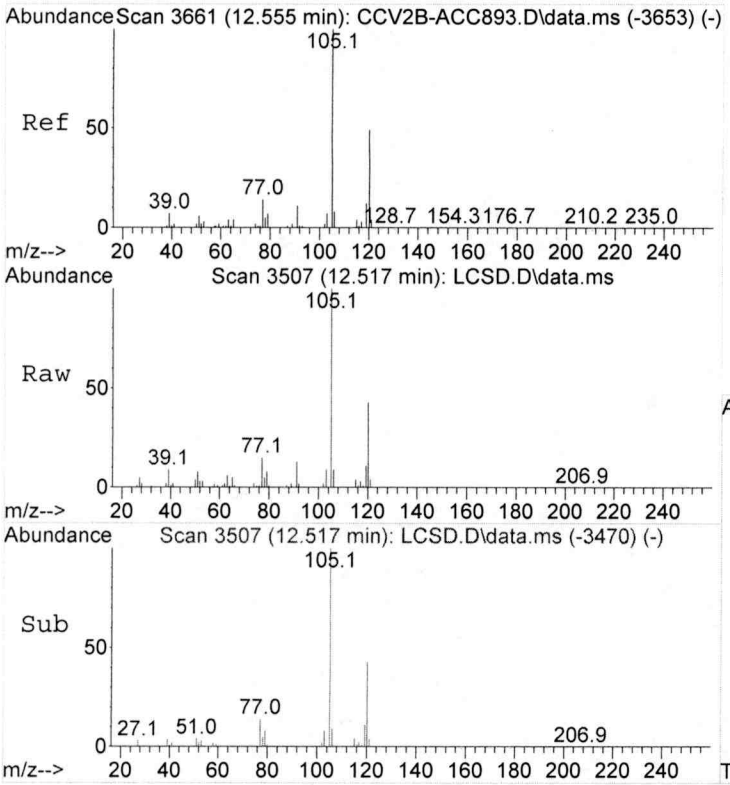


#78
4-Ethyltoluene
Concen: 8.604 ppbV
RT: 12.472 min Scan# 3491
Delta R.T. 0.002 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:105 Resp: 170829

Ion	Ratio	Lower	Upper
105	100		
120	28.4	0.0	57.7

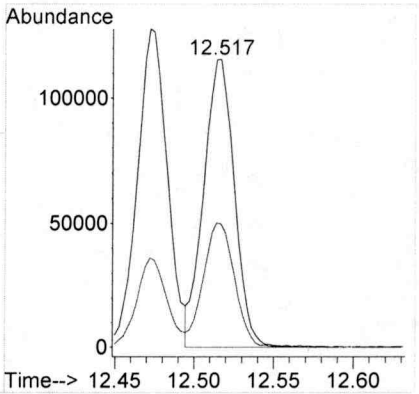


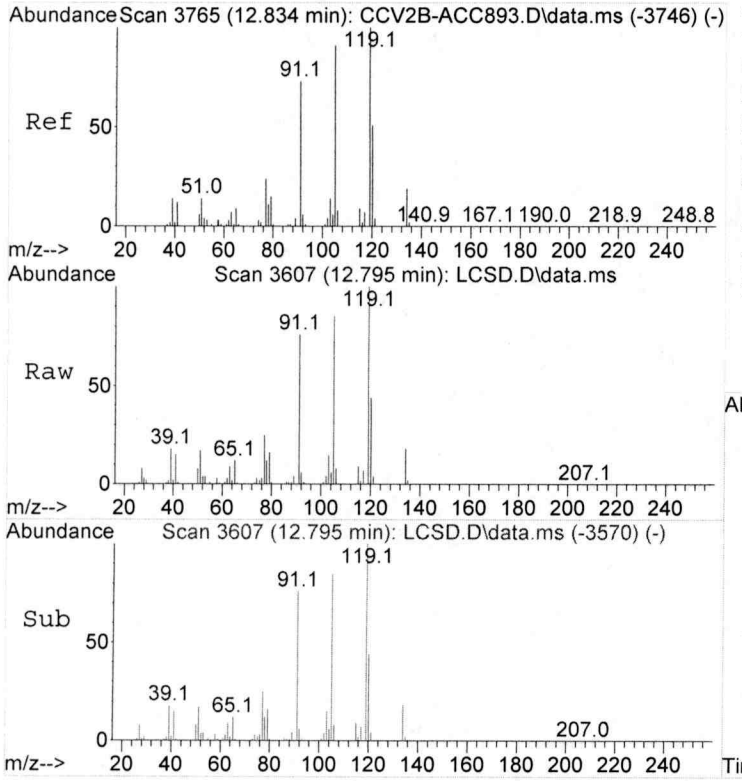


#79
1,3,5-Trimethylbenzene
Concen: 8.706 ppbV
RT: 12.517 min Scan# 3507
Delta R.T. 0.004 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:105 Resp: 155211

Ion	Ratio	Lower	Upper
105	100		
120	44.1	17.0	77.0

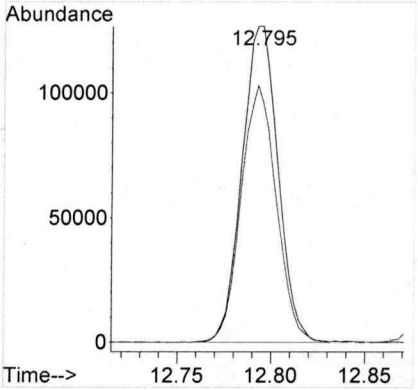


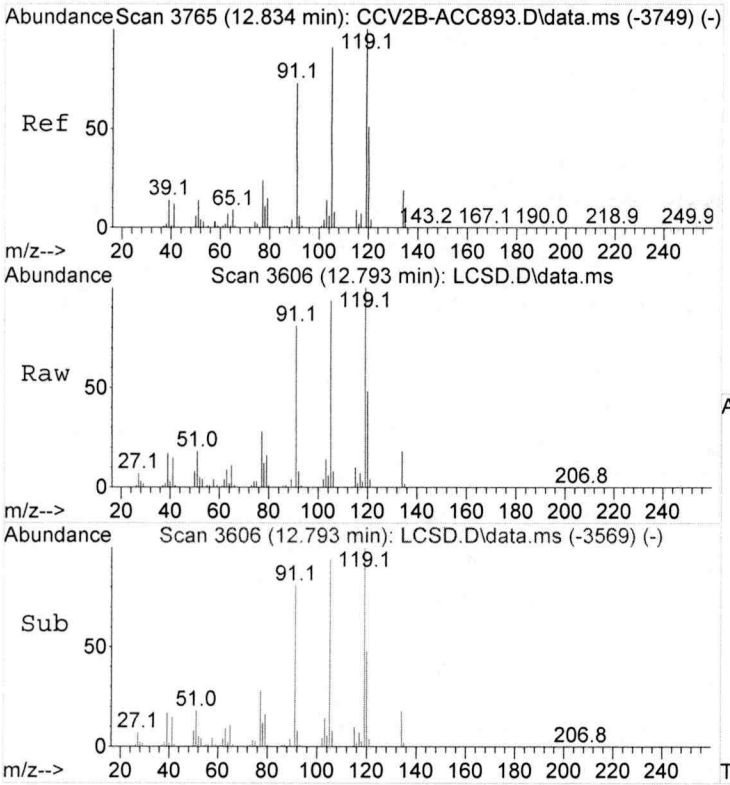


#80
tert-Butylbenzene
Concen: 8.363 ppbV
RT: 12.795 min Scan# 3607
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:119 Resp: 169579

Ion	Ratio	Lower	Upper
119	100		
91	79.8	61.8	92.8

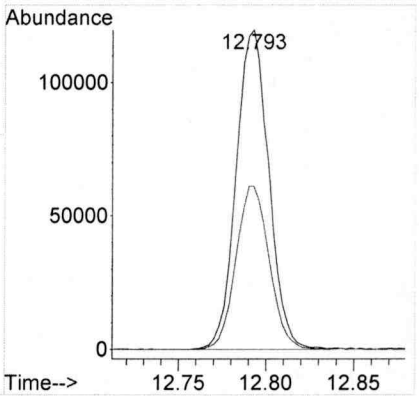


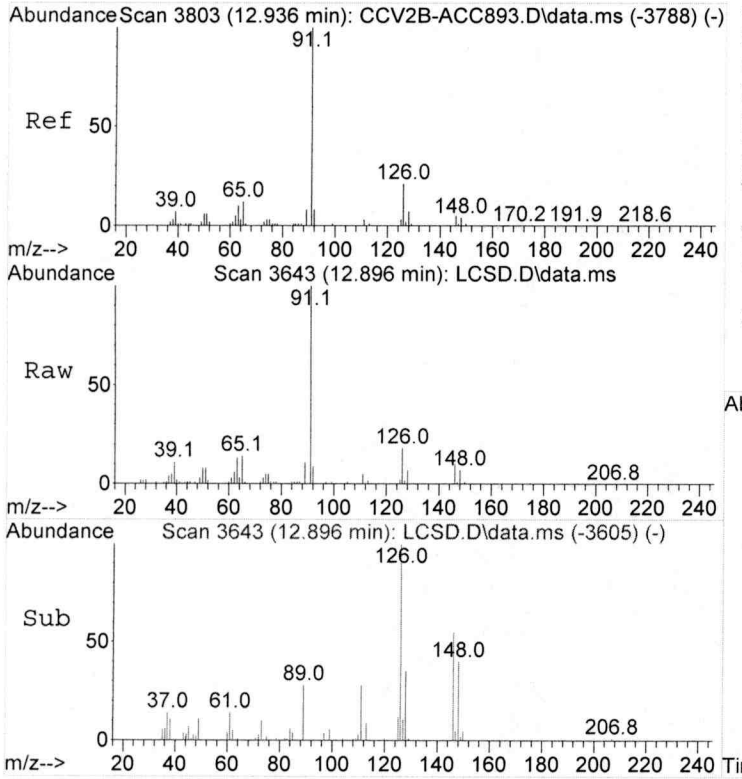


#81
1,2,4-Trimethylbenzene
Concen: 8.330 ppbV
RT: 12.793 min Scan# 3606
Delta R.T. 0.004 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:105 Resp: 155179

Ion	Ratio	Lower	Upper
105	100		
120	52.0	22.2	82.2

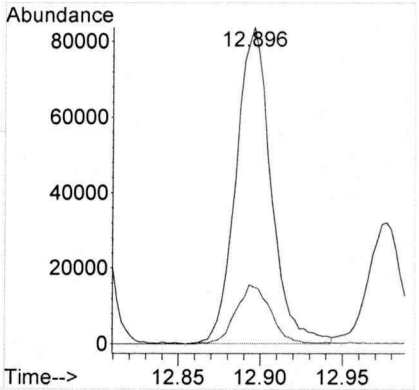


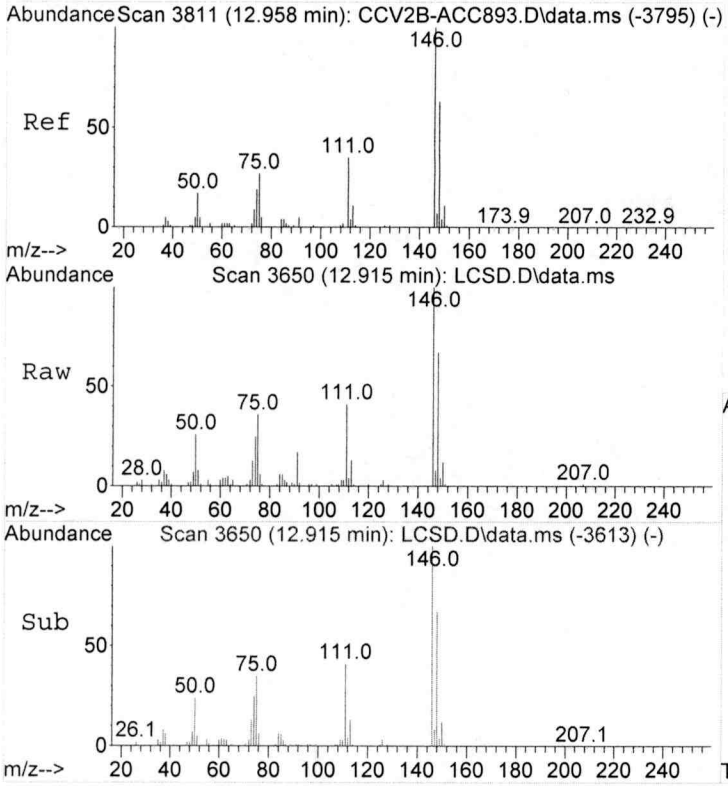


#82
Benzyl Chloride
Concen: 7.942 ppbV
RT: 12.896 min Scan# 3643
Delta R.T. 0.005 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 91 Resp: 124208

Ion	Ratio	Lower	Upper
91	100		
126	18.5	0.0	49.9

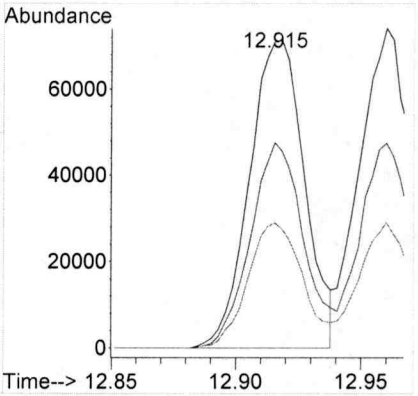


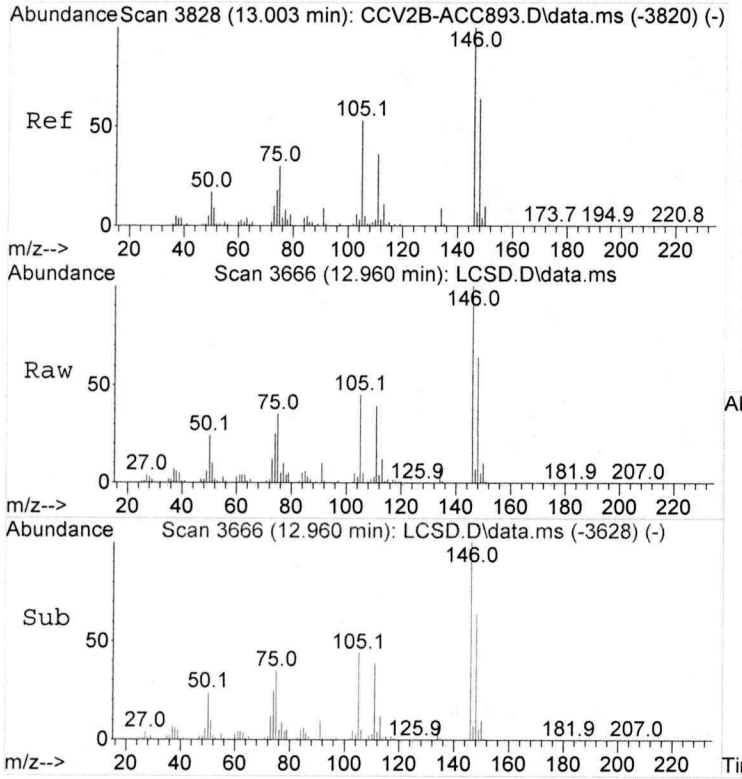


#83
1,3-Dichlorobenzene
Concen: 7.741 ppbV
RT: 12.915 min Scan# 3650
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:146 Resp: 109390

Ion	Ratio	Lower	Upper
146	100		
148	65.0	34.5	94.5
111	40.2	9.7	69.7

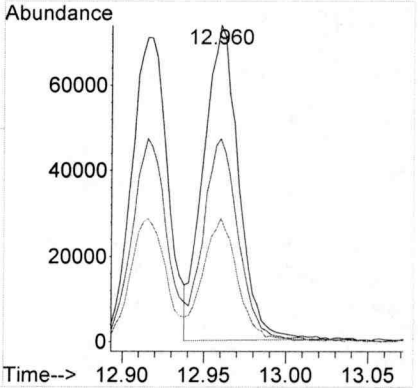


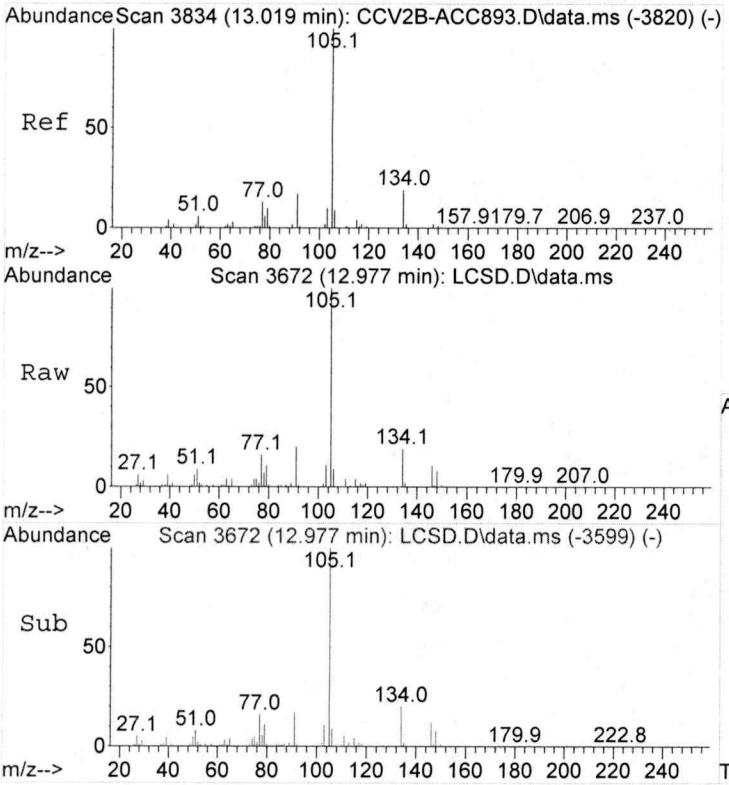


#84
1,4-Dichlorobenzene
Concen: 7.781 ppbV
RT: 12.960 min Scan# 3666
Delta R.T. 0.005 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:146 Resp: 110130

Ion	Ratio	Lower	Upper
146	100		
148	62.7	35.4	95.4
111	38.2	7.0	67.0

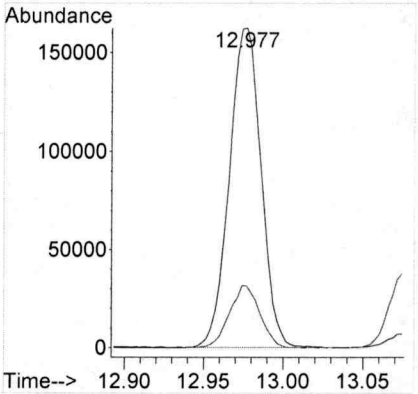


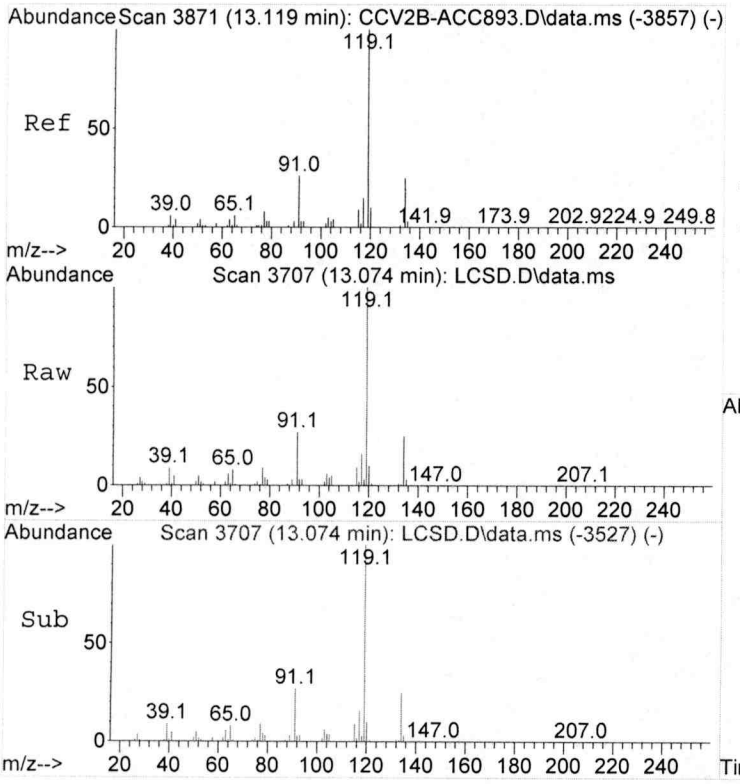


#85
sec-Butylbenzene
Concen: 8.425 ppbV
RT: 12.977 min Scan# 3672
Delta R.T. 0.003 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:105 Resp: 224202

Ion	Ratio	Lower	Upper
105	100		
134	18.8	0.0	39.4

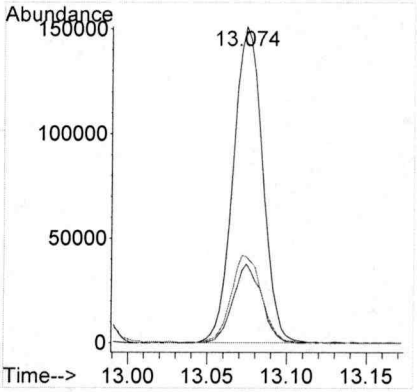


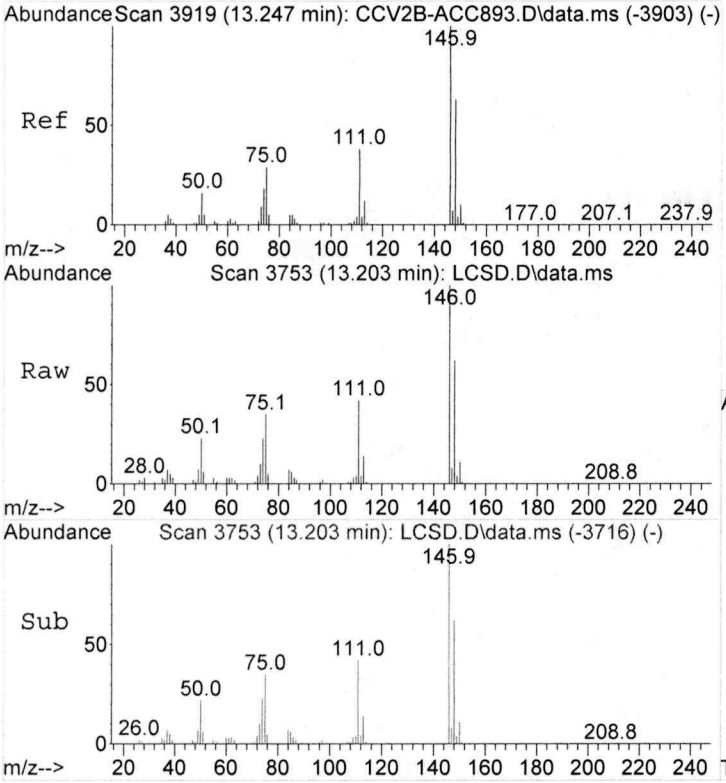


#86
p-Isopropyltoluene
Concen: 8.615 ppbV
RT: 13.074 min Scan# 3707
Delta R.T. 0.001 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:119 Resp: 194330

Ion	Ratio	Lower	Upper
119	100		
134	24.3	19.7	29.5
91	28.2	21.4	32.0

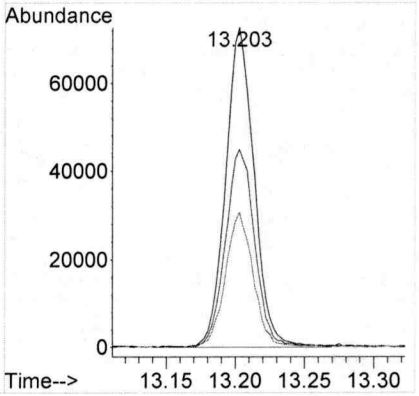


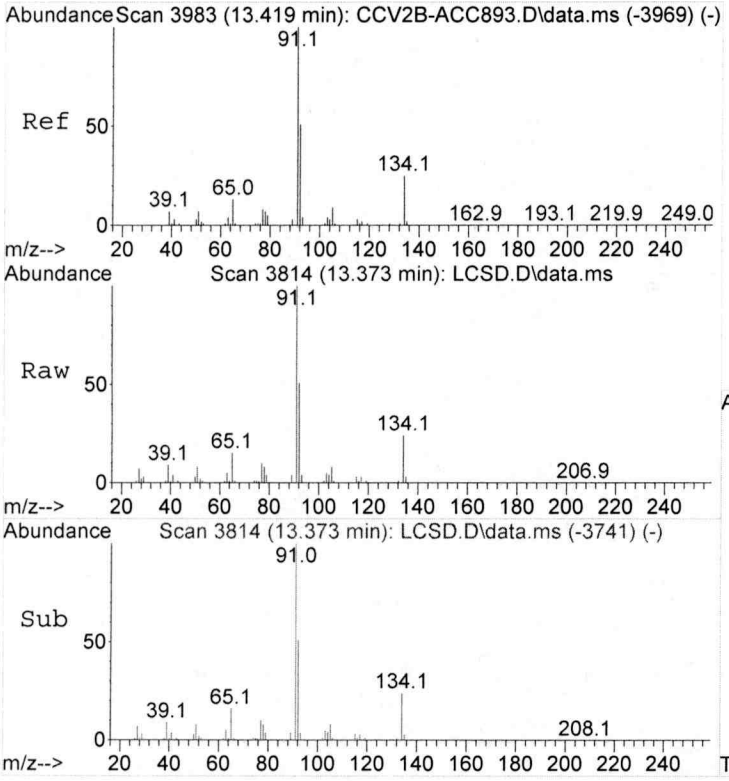


#87
1,2-Dichlorobenzene
Concen: 7.777 ppbV
RT: 13.203 min Scan# 3753
Delta R.T. 0.004 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:146 Resp: 104221

Ion	Ratio	Lower	Upper
146	100		
148	64.1	33.9	93.9
111	41.7	10.1	70.1

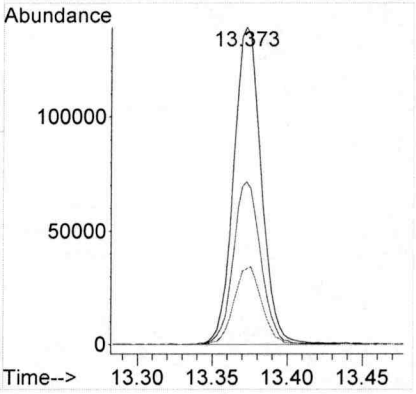


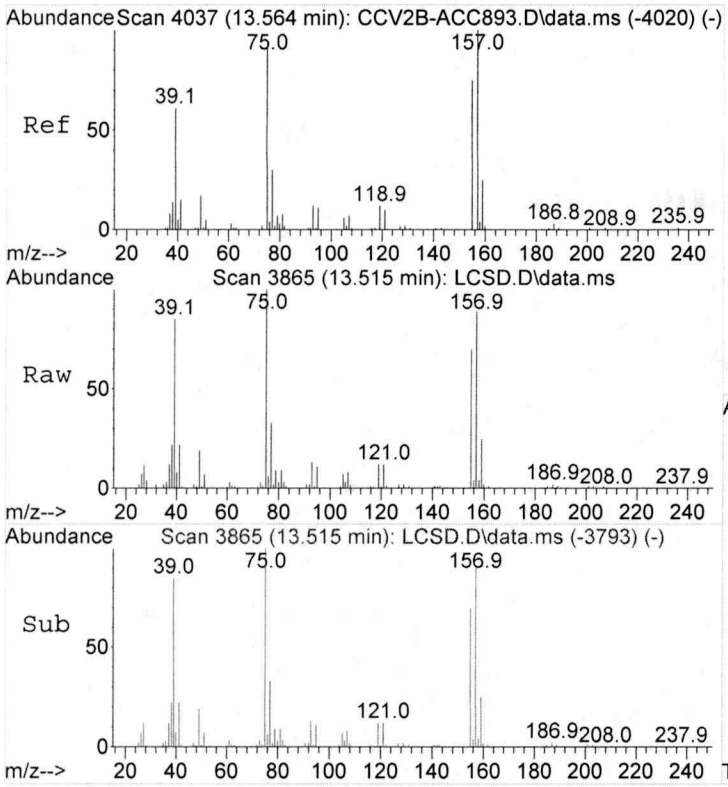


#88
n-Butylbenzene
Concen: 9.278 ppbV
RT: 13.373 min Scan# 3814
Delta R.T. 0.005 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 91 Resp: 179186

Ion	Ratio	Lower	Upper
91	100		
92	51.5	33.7	73.7
134	24.8	5.2	45.2

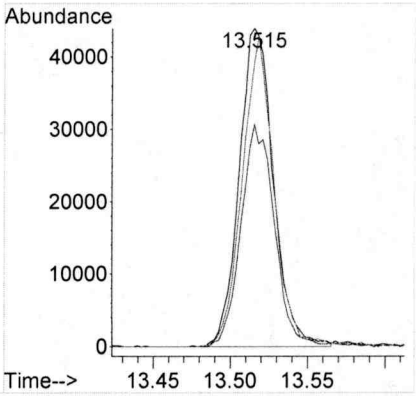


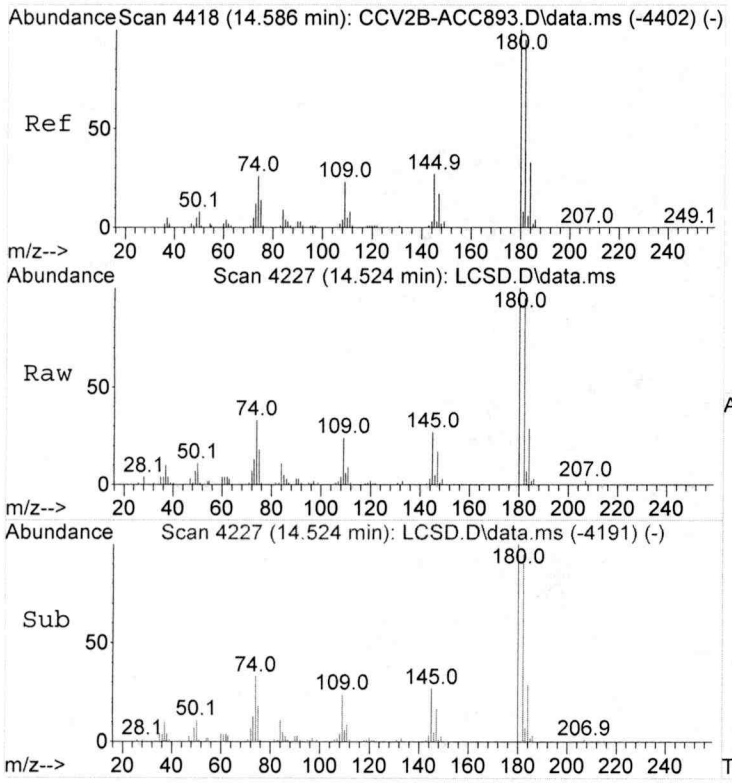


#89
1,2 Dibromo-3-chloropropane
Concen: 8.529 ppbV
RT: 13.515 min Scan# 3865
Delta R.T. 0.002 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion: 75 Resp: 67299

Ion	Ratio	Lower	Upper
75	100		
155	68.0	53.8	93.8
157	91.4	77.6	117.6

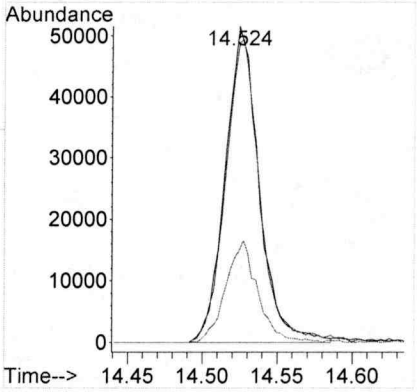


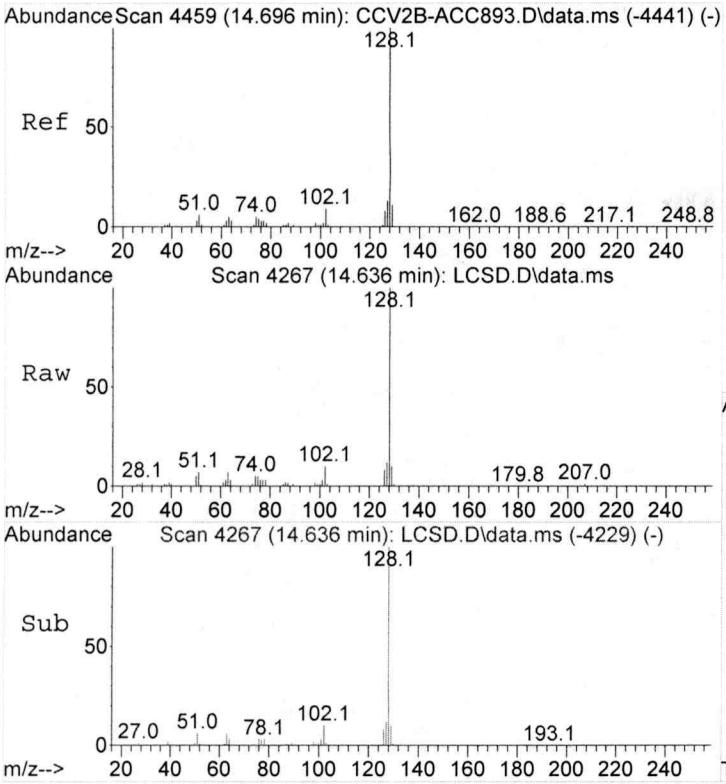


#90
1,2,4-Trichlorobenzene
Concen: 8.337 ppbV
RT: 14.524 min Scan# 4227
Delta R.T. 0.000 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:180 Resp: 80800

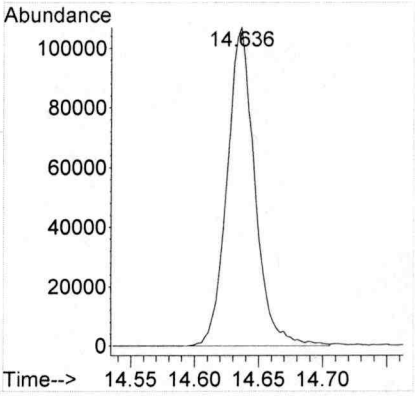
Ion	Ratio	Lower	Upper
180	100		
182	97.5	65.1	125.1
184	30.4	0.3	60.3

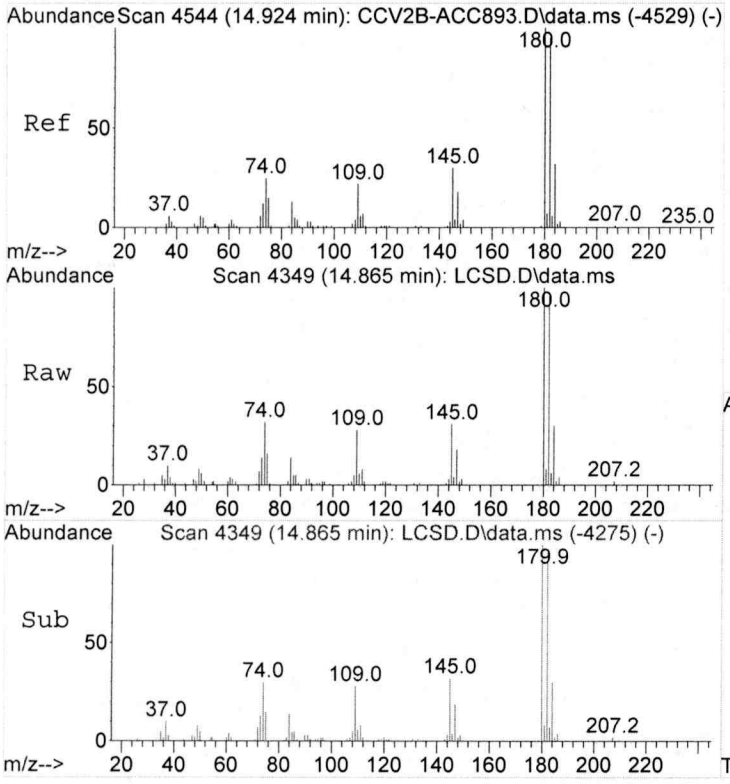




#91
Naphthalene
Concen: 8.783 ppbV
RT: 14.636 min Scan# 4267
Delta R.T. 0.005 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:128 Resp: 161726

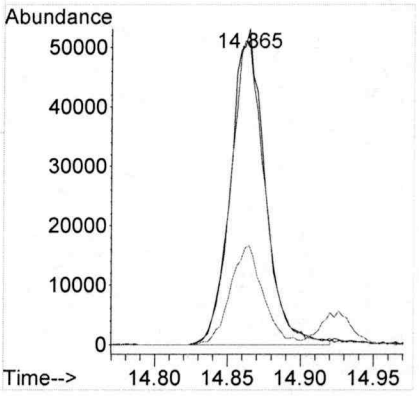


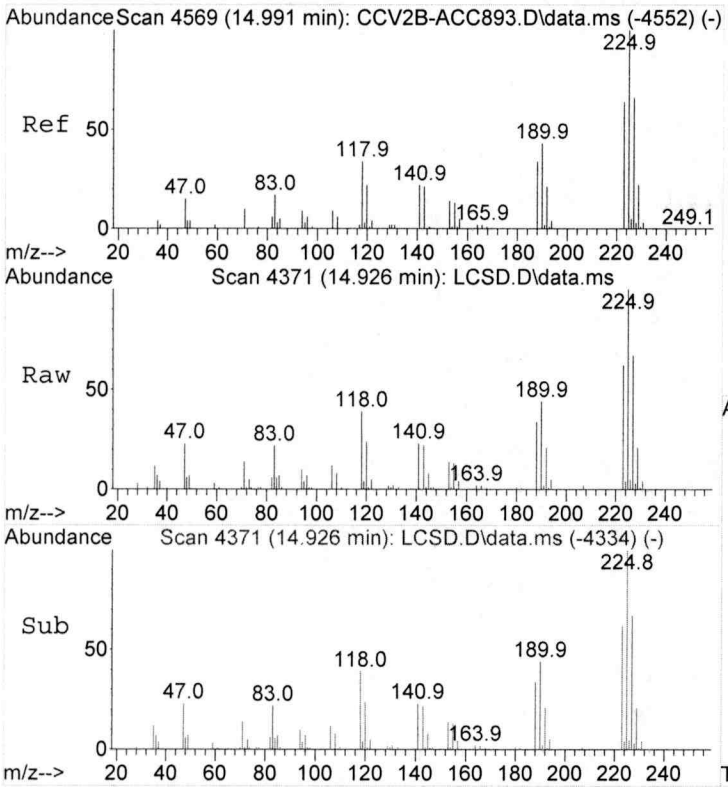


#92
1,2,3-Trichlorobenzene
Concen: 9.600 ppbV
RT: 14.865 min Scan# 4349
Delta R.T. 0.006 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:180 Resp: 86553

Ion	Ratio	Lower	Upper
180	100		
182	97.2	78.5	118.5
145	30.3	9.4	49.4

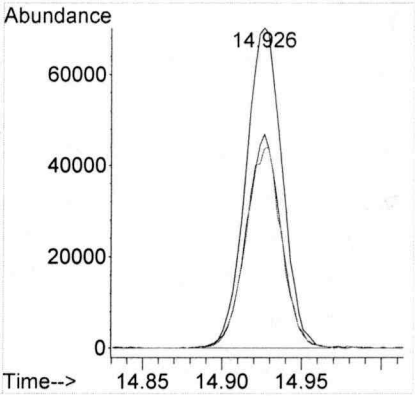




#93
Hexachlorobutadiene
Concen: 9.325 ppbV
RT: 14.926 min Scan# 4371
Delta R.T. 0.002 min
Lab File: LCSD.D
Acq: 19 Nov 2013 8:04 pm

Tgt Ion:225 Resp: 112222

Ion	Ratio	Lower	Upper
225	100		
227	64.0	33.4	93.4
223	62.1	31.0	91.0



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-14G-SV.D
Acq On : 20 Nov 2013 11:31 am
Operator : slc
Misc :
ALS Vial : 17 Sample Multiplier: 5

Quant Time: Jan 30 11:11:21 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-01 Inst : GCMS#12

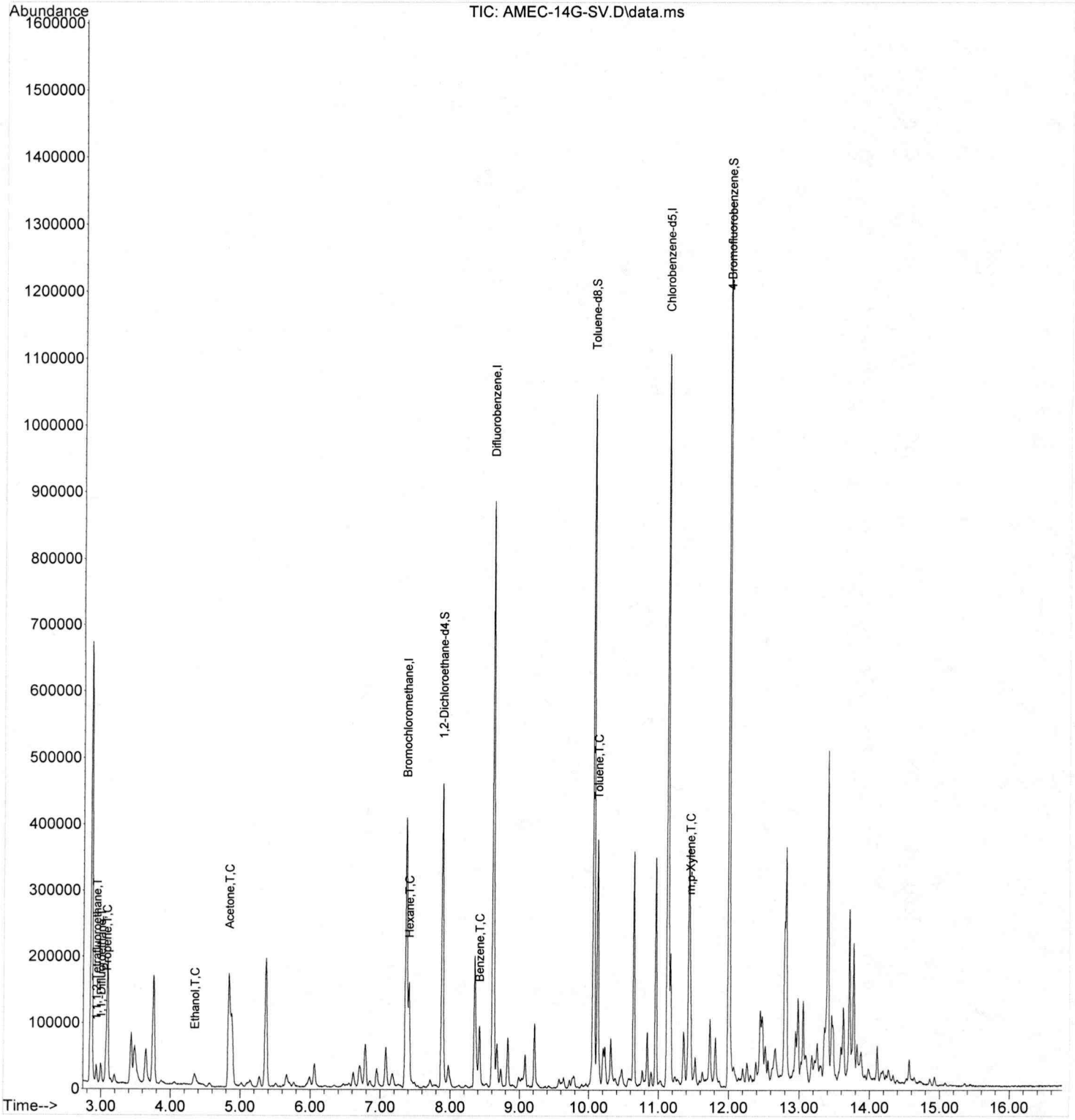
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.369	130	131557	50.00	ppbV	0.00
41) Difluorobenzene	8.615	114	520479	50.00	ppbV	0.00
63) Chlorobenzene-d5	11.131	82	280222	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.885	65	262256	54.33	ppbV	0.00
Spiked Amount 50.000			Recovery	=	108.66%	
55) Toluene-d8	10.065	98	505710	52.18	ppbV	0.00
Spiked Amount 50.000			Recovery	=	104.36%	
72) 4-Bromofluorobenzene	12.001	95	334642	49.37	ppbV	0.00
Spiked Amount 50.000			Recovery	=	98.74%	
Target Compounds						Qvalue
3) 1,1,1,2-Tetrafluoroethane	2.929	83	13269	5.093	ppbV	98
4) 1,1,-Difluoroethane	2.996	51	16239	7.322	ppbV	95
5) Propene	3.077	41	39125	35.356	ppbV	80
13) Ethanol	4.346	45	7334	6.948	ppbV	100
14) Acetone	4.837	43	265221	47.108	ppbV	95
16) Isopropanol	5.110	45	5729	1.076	ppbV #	100
18) tert-Butanol	5.662	59	12590	1.663	ppbV	77
21) Carbon Disulfide	5.991	76	20737	2.676	ppbV	98
26) 2-Butanone	6.950	43	24888	4.101	ppbV	97
30) Hexane	7.408	57	32725	10.621	ppbV	88
39) Benzene	8.420	78	55795	8.117	ppbV	95
42) Cyclohexane	8.604	84	10839	3.198	ppbV #	49
49) 2,2,4 Trimethylpentane	9.081	57	18349	1.595	ppbV #	93
50) Heptane	9.215	71	10383	4.787	ppbV	97
56) Toluene	10.124	91	189883	15.342	ppbV	100
65) Ethylbenzene	11.356	91	37033	2.413	ppbV	99
66) m,p-Xylene	11.448	91	98111	6.911	ppbV	100
70) o-Xylene	11.733	91	40734	2.626	ppbV	100
78) 4-Ethyltoluene	12.475	105	25553	1.048	ppbV	100
81) 1,2,4-Trimethylbenzene	12.793	105	79314	3.468	ppbV	89

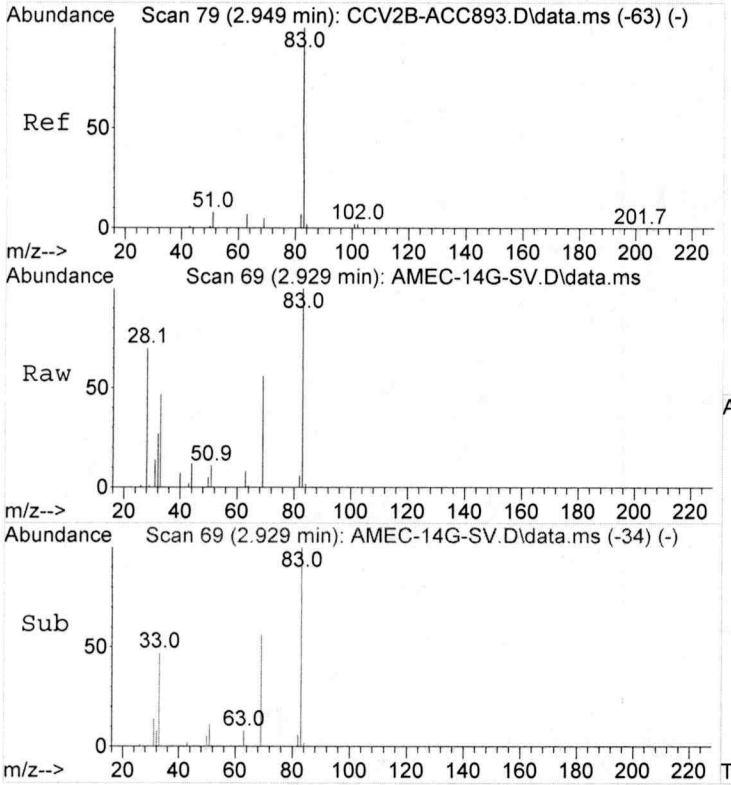
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-14G-SV.D
Acq On : 20 Nov 2013 11:31 am
Operator : slc
Misc :
ALS Vial : 17 Sample Multiplier: 5

Quant Time: Jan 30 11:11:21 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-01 Inst : GCMS#12

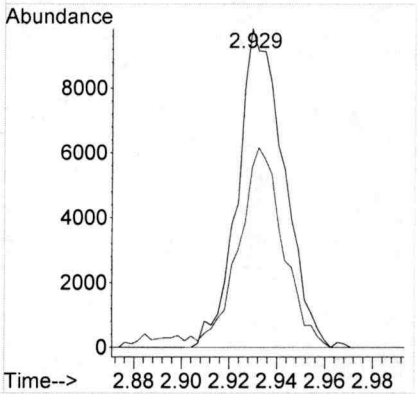


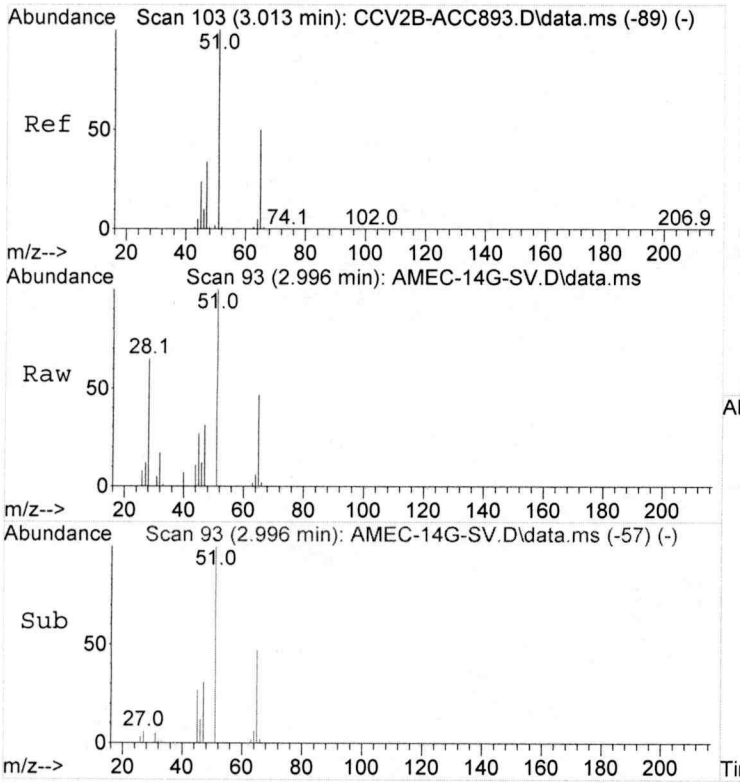


#3
1,1,1,2-Tetrafluoroethane
Concen: 5.093 ppbV
RT: 2.929 min Scan# 69
Delta R.T. -0.004 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 83 Resp: 13269

Ion	Ratio	Lower	Upper
83	100		
69	60.8	42.6	82.6

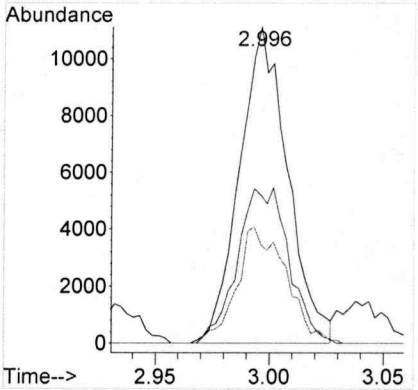


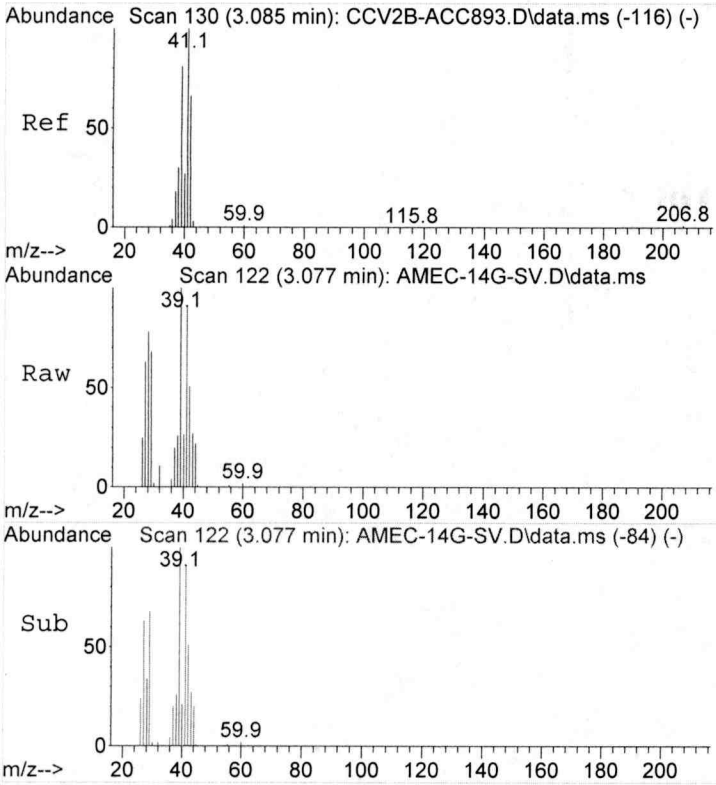


#4
1,1,-Difluoroethane
Concen: 7.322 ppbV
RT: 2.996 min Scan# 93
Delta R.T. 0.002 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 51 Resp: 16239

Ion	Ratio	Lower	Upper
51	100		
65	52.4	25.3	85.3
47	37.5	4.4	64.4

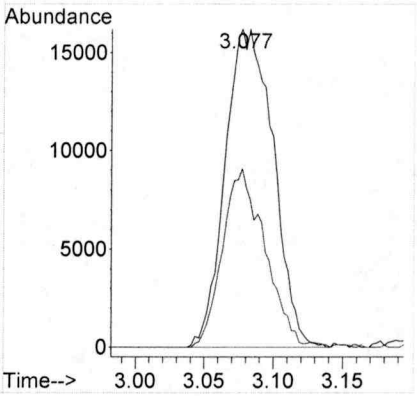


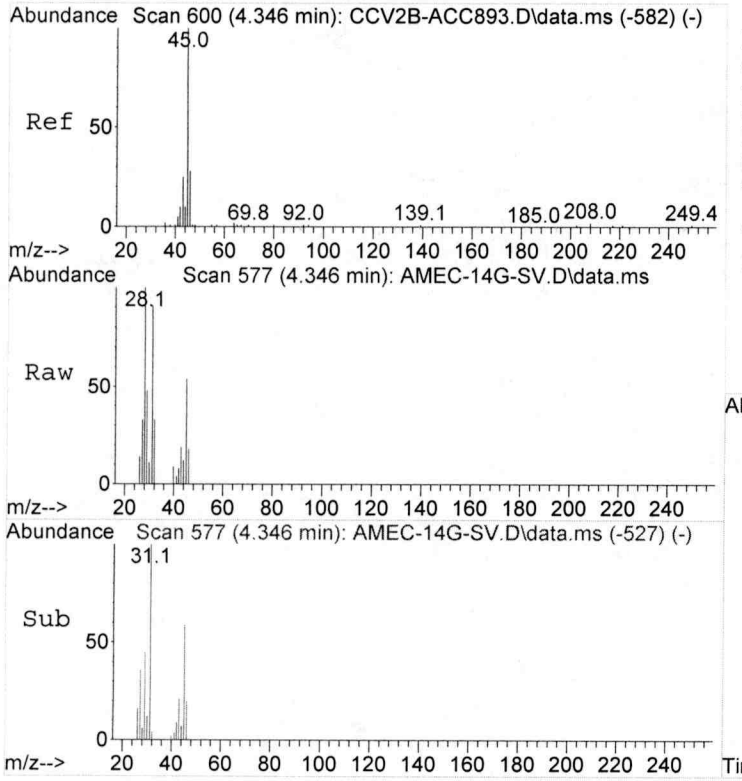


#5
Propene
Concen: 35.356 ppbV
RT: 3.077 min Scan# 122
Delta R.T. 0.007 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 41 Resp: 39125

Ion	Ratio	Lower	Upper
41	100		
42	49.3	35.1	95.1

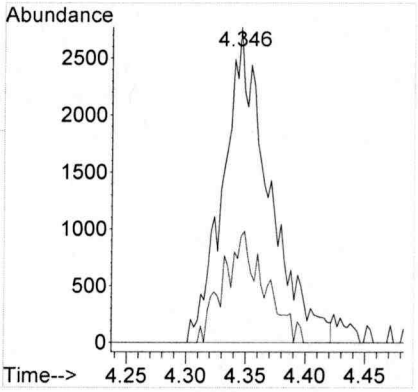


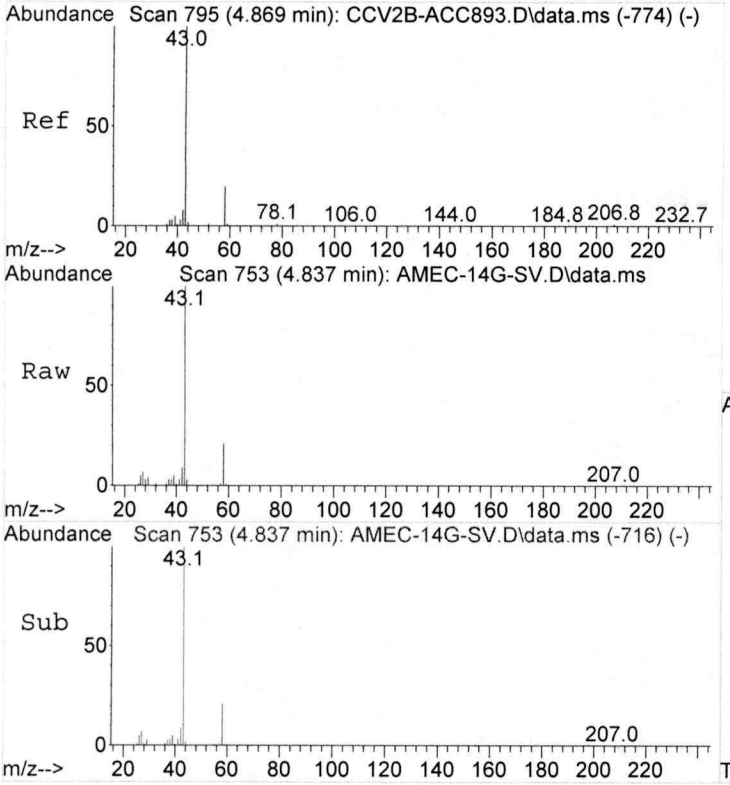


#13
Ethanol
Concen: 6.948 ppbV
RT: 4.346 min Scan# 577
Delta R.T. 0.040 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 45 Resp: 7334

Ion	Ratio	Lower	Upper
45	100		
46	9.3	0.0	30.0

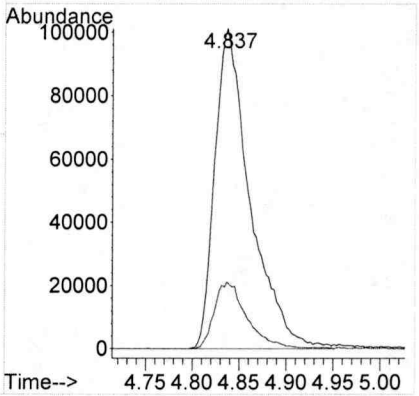


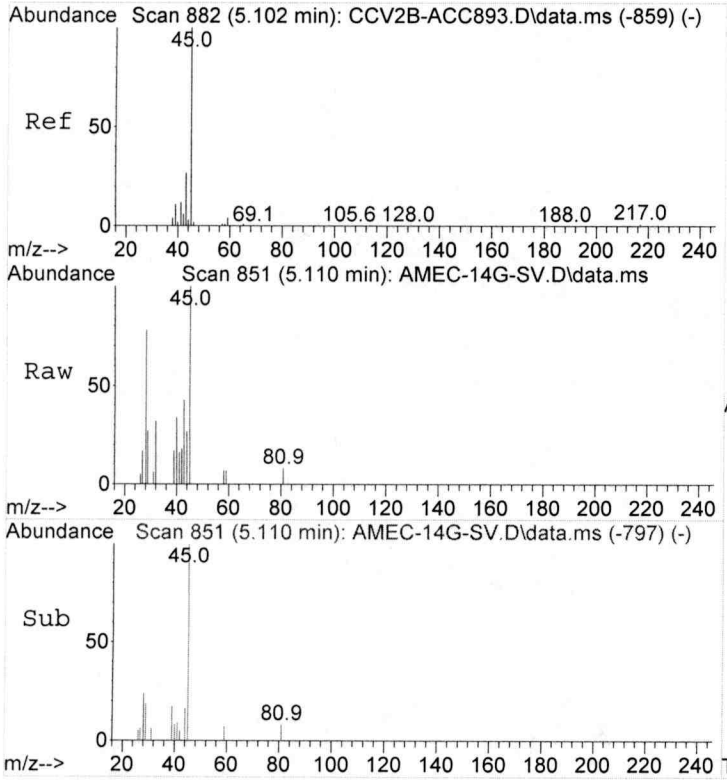


#14
Acetone
Concen: 47.108 ppbV
RT: 4.837 min Scan# 753
Delta R.T. 0.003 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 43 Resp: 265221

Ion	Ratio	Lower	Upper
43	100		
58	19.3	0.0	47.3

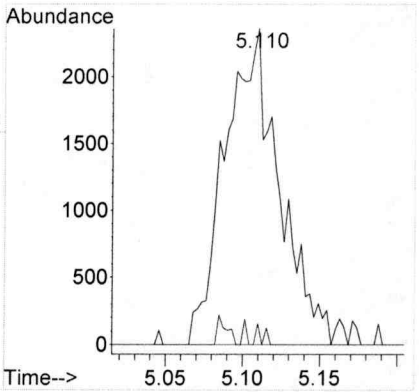


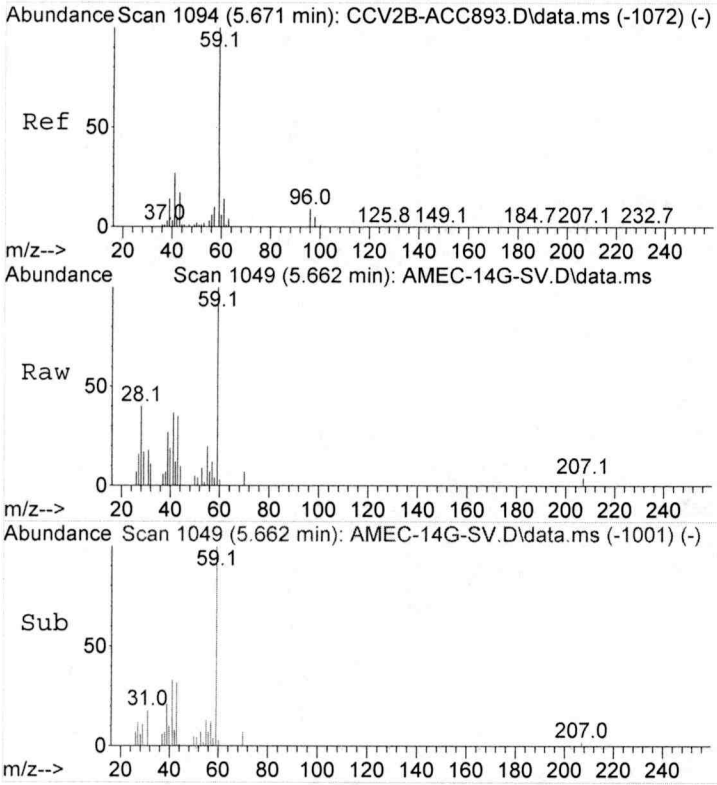


#16
Isopropanol
Concen: 1.076 ppbV
RT: 5.110 min Scan# 851
Delta R.T. 0.050 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 45 Resp: 5729

Ion	Ratio	Lower	Upper
45	100		
59	0.0	0.0	30.0

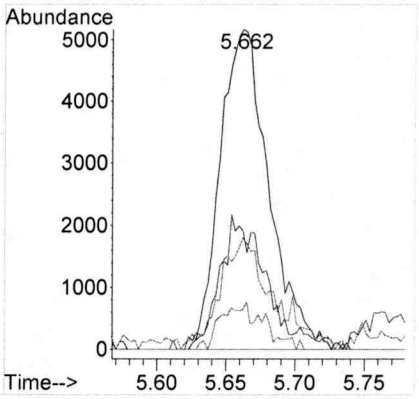


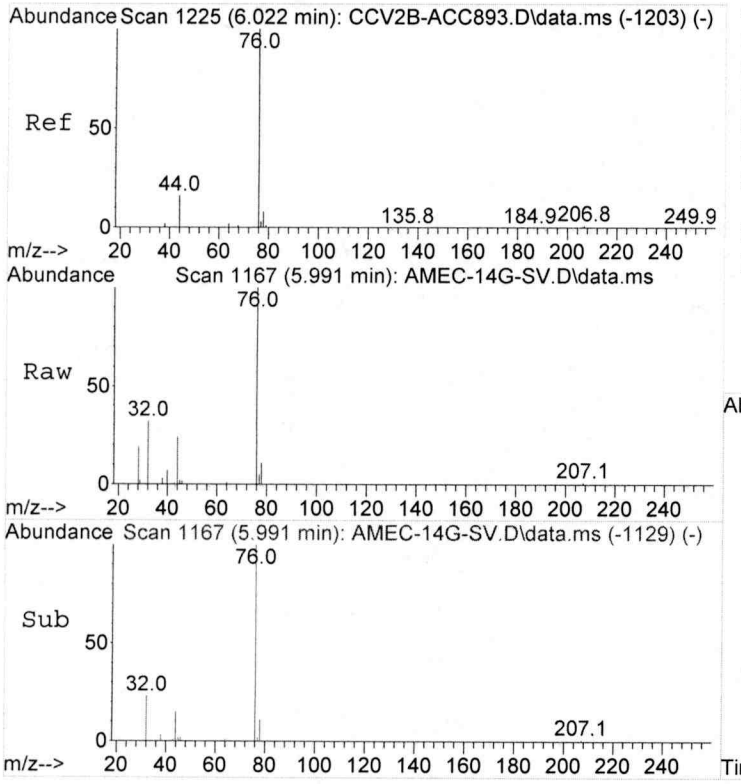


#18
tert-Butanol
Concen: 1.663 ppbV
RT: 5.662 min Scan# 1049
Delta R.T. 0.034 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 59 Resp: 12590

Ion	Ratio	Lower	Upper
59	100		
41	37.5	0.0	57.7
43	29.3	0.0	35.5
57	8.9	0.0	37.6

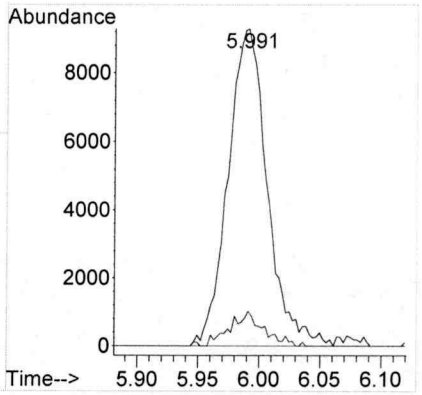


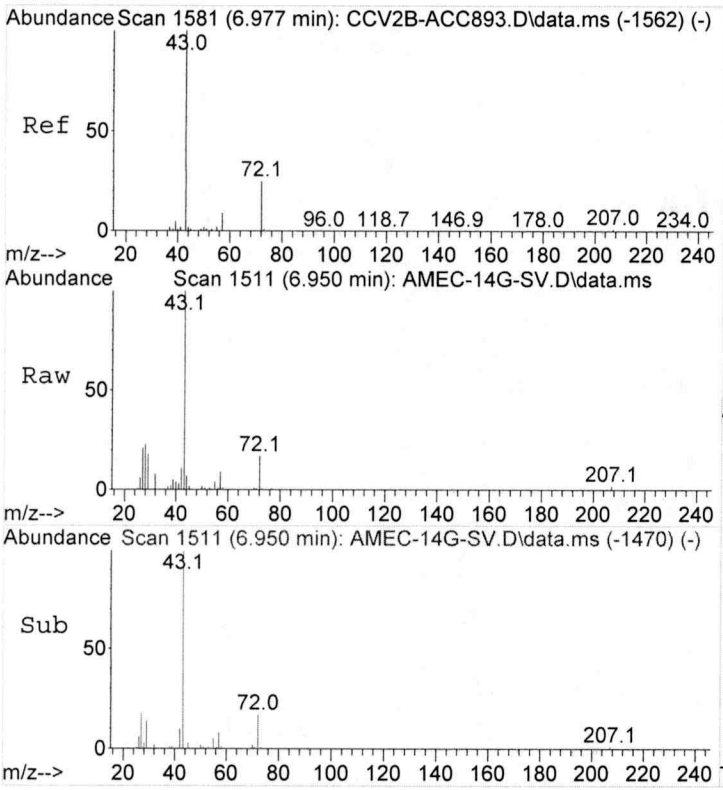


#21
Carbon Disulfide
Concen: 2.676 ppbV
RT: 5.991 min Scan# 1167
Delta R.T. 0.006 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 76 Resp: 20737

Ion	Ratio	Lower	Upper
76	100		
78	8.8	0.0	39.5

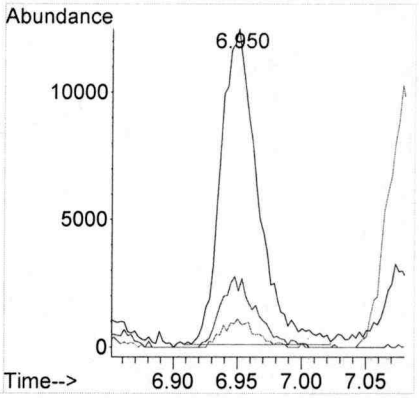


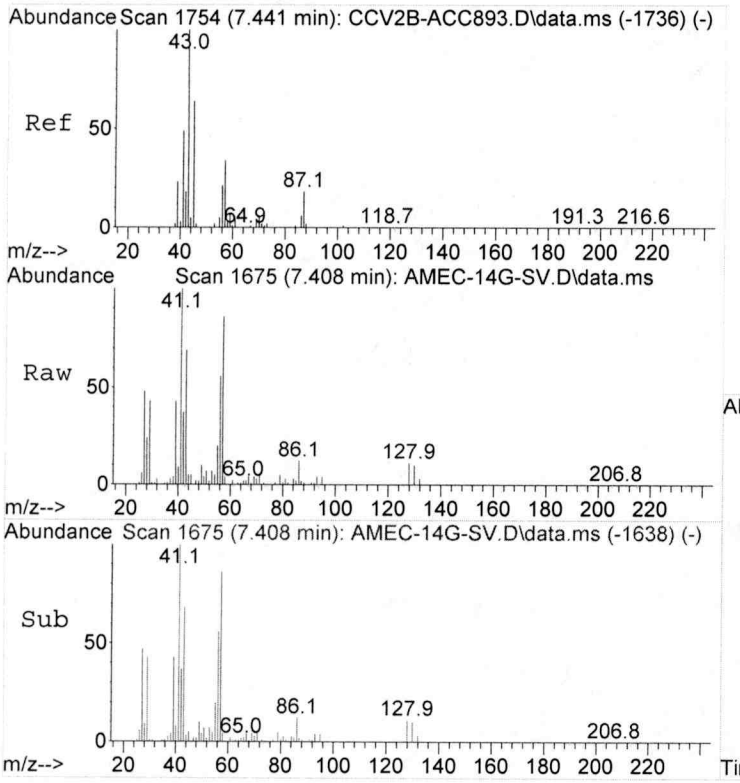


#26
2-Butanone
Concen: 4.101 ppbV
RT: 6.950 min Scan# 1511
Delta R.T. 0.013 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 43 Resp: 24888

Ion	Ratio	Lower	Upper
43	100		
72	20.6	0.0	51.3
57	7.8	0.0	32.0

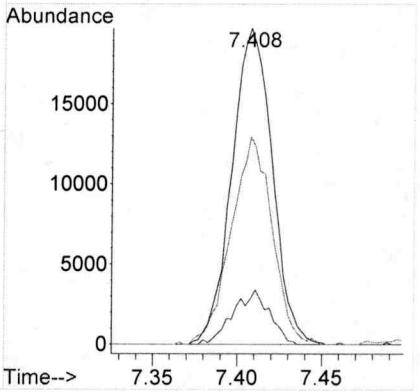


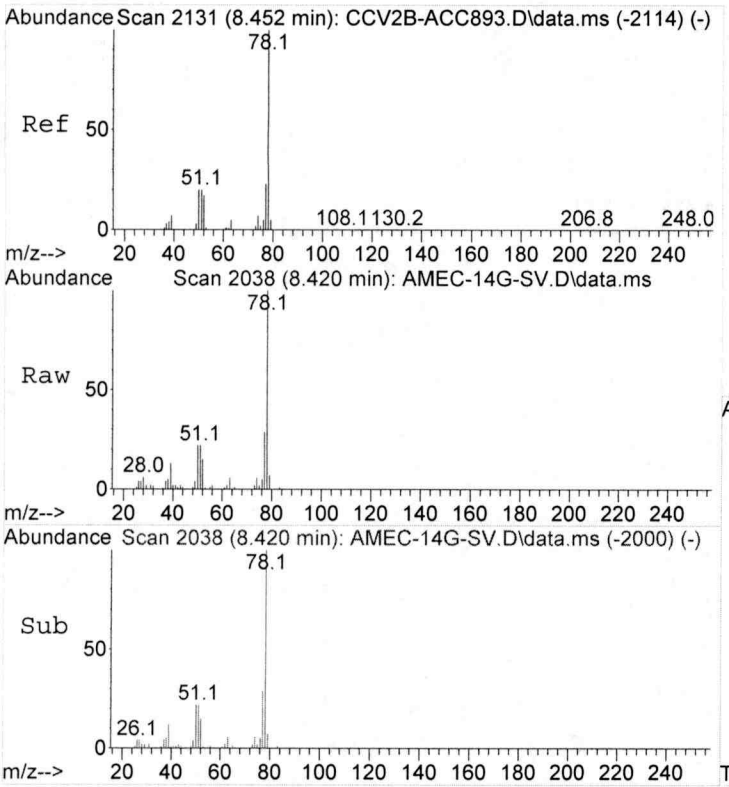


#30
Hexane
Concen: 10.621 ppbV
RT: 7.408 min Scan# 1675
Delta R.T. 0.004 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 57 Resp: 32725

Ion	Ratio	Lower	Upper
57	100		
86	15.5	0.0	47.3
56	66.4	26.1	86.1

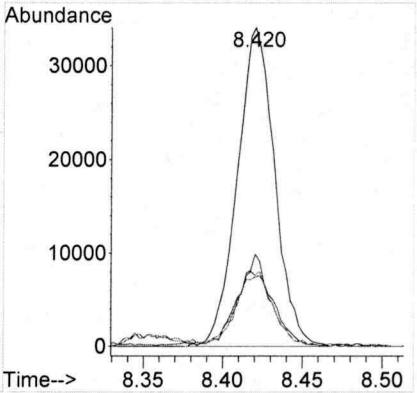


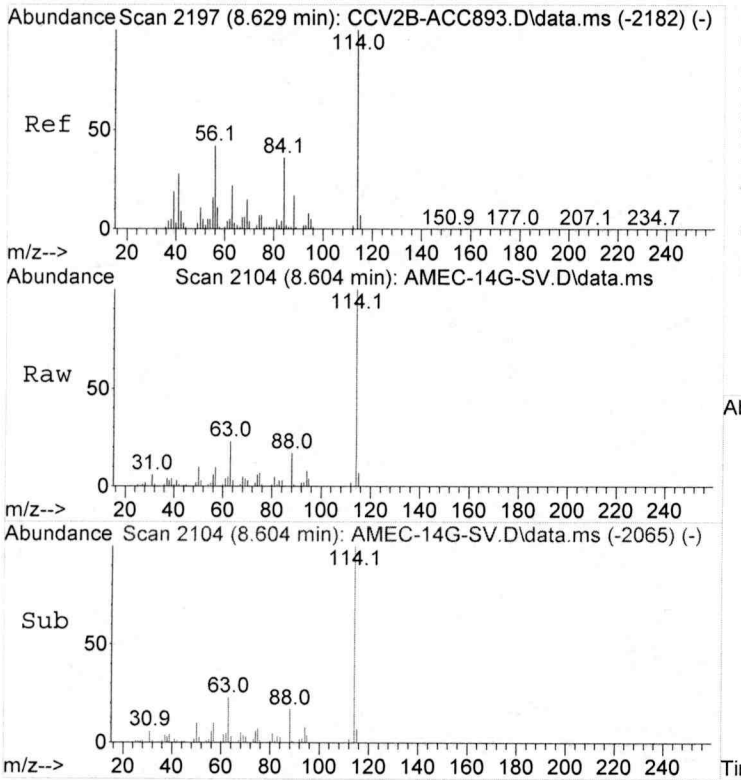


#39
Benzene
Concen: 8.117 ppbV
RT: 8.420 min Scan# 2038
Delta R.T. 0.005 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 78 Resp: 55795

Ion	Ratio	Lower	Upper
78	100		
77	26.4	0.0	54.2
50	23.9	0.0	50.5
51	23.0	0.0	51.1

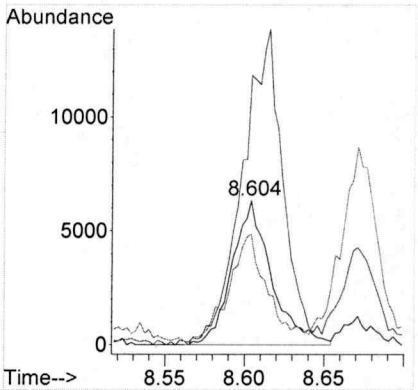


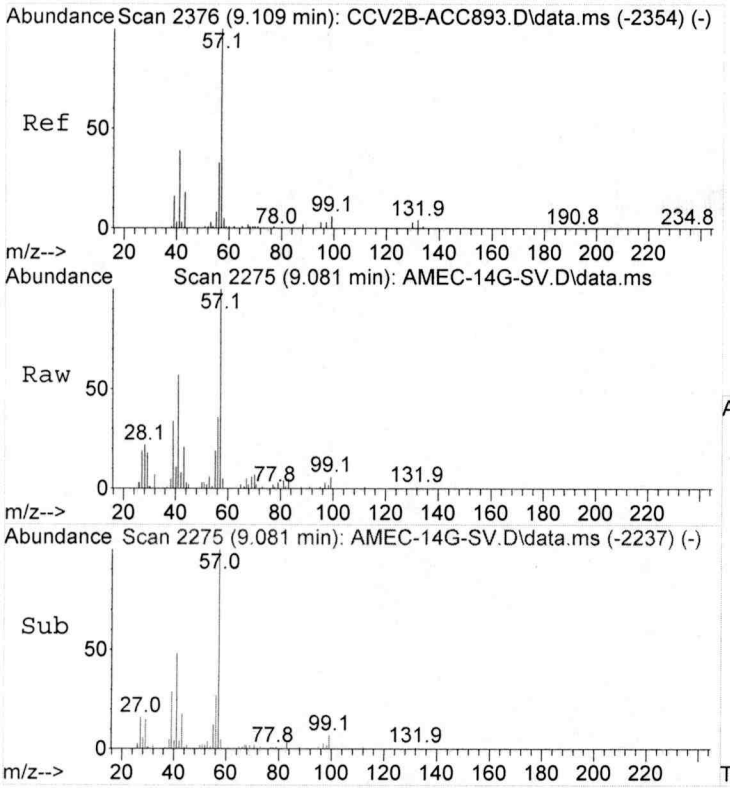


#42
Cyclohexane
Concen: 3.198 ppbV
RT: 8.604 min Scan# 2104
Delta R.T. 0.010 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 84 Resp: 10839

Ion	Ratio	Lower	Upper
84	100		
56	226.1	107.0	167.0#
41	78.5	43.0	103.0

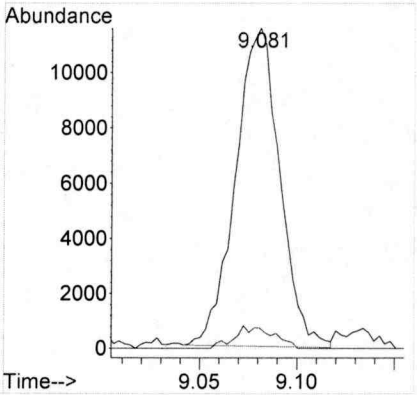


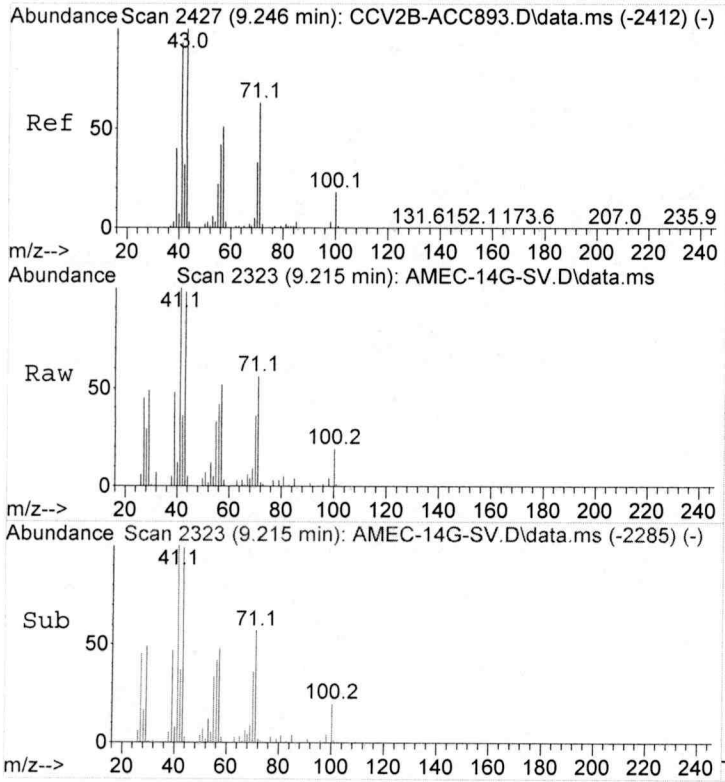


#49
2,2,4 Trimethylpentane
Concen: 1.595 ppbV
RT: 9.081 min Scan# 2275
Delta R.T. 0.006 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 57 Resp: 18349

Ion	Ratio	Lower	Upper
57	100		
99	6.1	7.0	10.4#

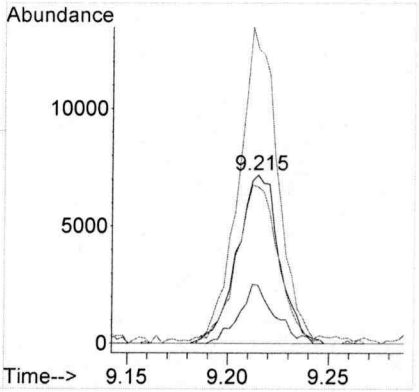


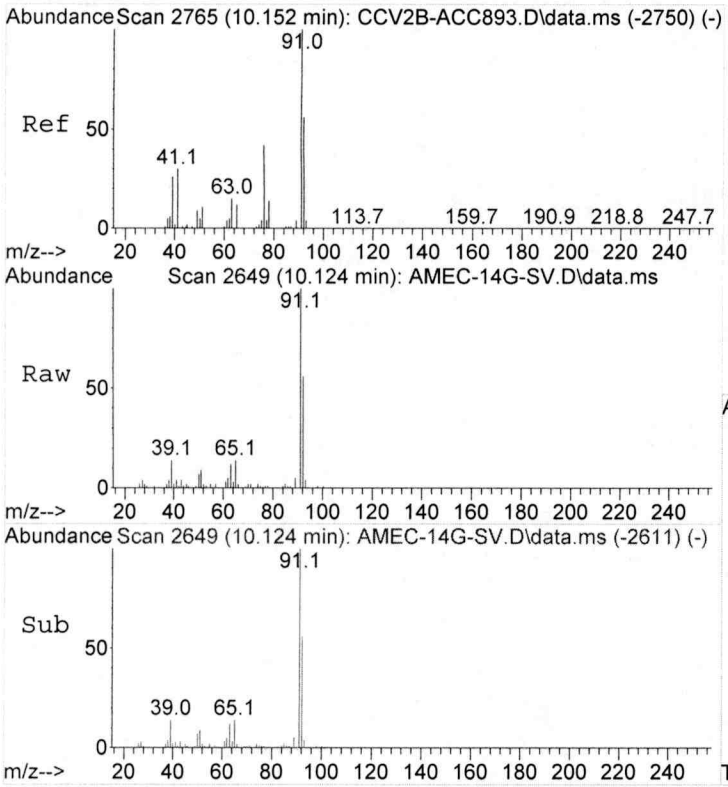


#50
Heptane
Concen: 4.787 ppbV
RT: 9.215 min Scan# 2323
Delta R.T. 0.006 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 71 Resp: 10383

Ion	Ratio	Lower	Upper
71	100		
100	29.9	1.2	61.2
57	94.0	61.4	121.4
43	173.3	139.4	199.4

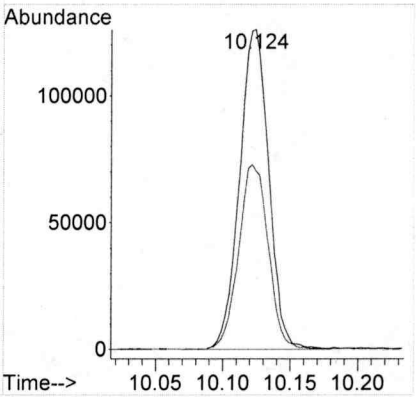


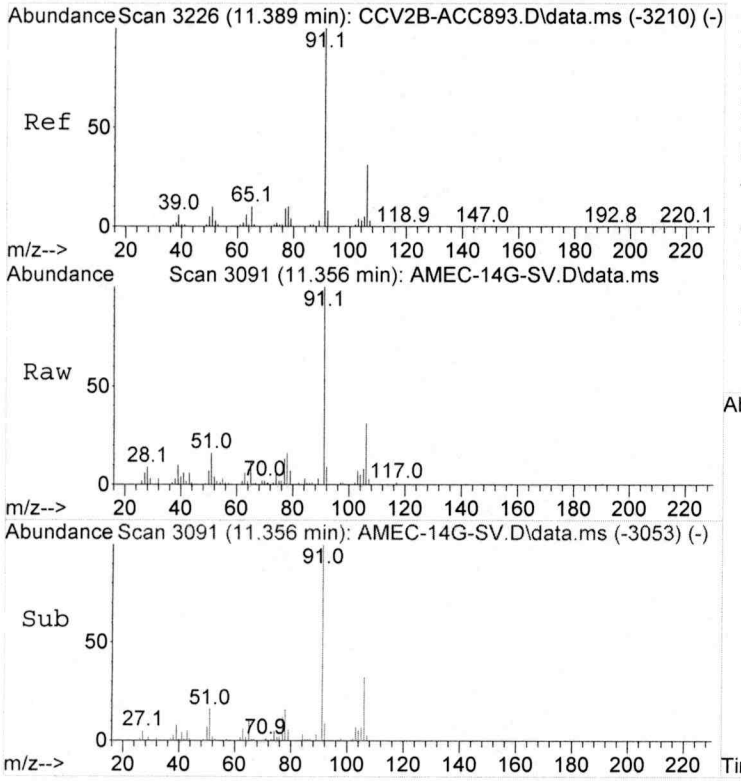


#56
Toluene
Concen: 15.342 ppbV
RT: 10.124 min Scan# 2649
Delta R.T. 0.006 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 91 Resp: 189883

Ion	Ratio	Lower	Upper
91	100		
92	58.7	28.5	88.5

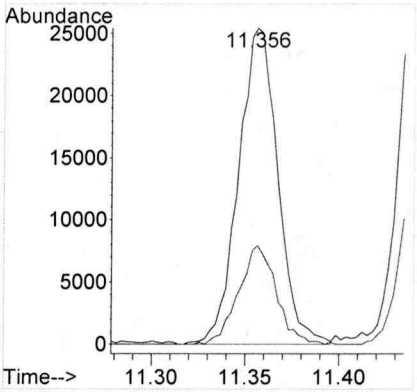


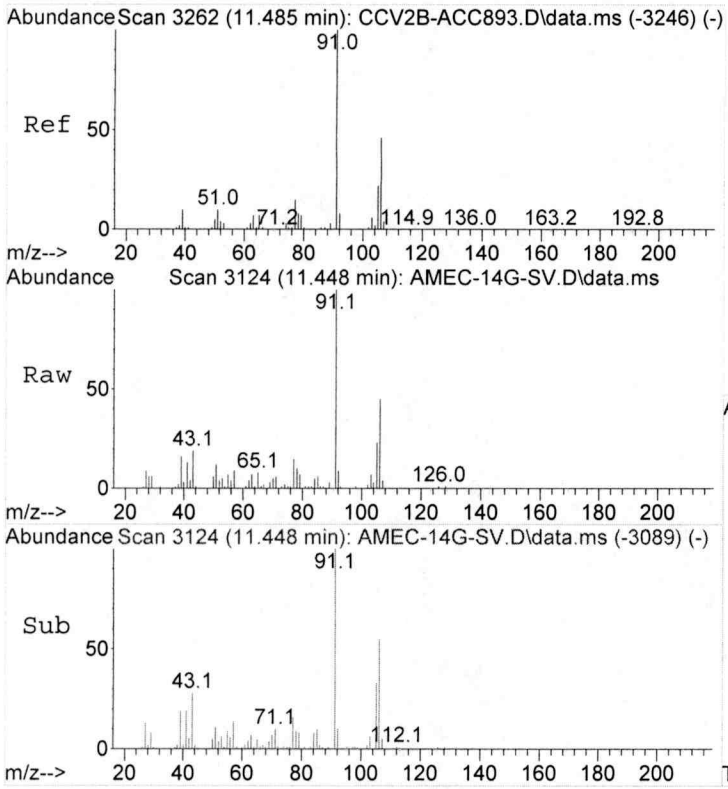


#65
Ethylbenzene
Concen: 2.413 ppbV
RT: 11.356 min Scan# 3091
Delta R.T. 0.005 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 91 Resp: 37033

Ion	Ratio	Lower	Upper
91	100		
106	29.8	0.0	59.5

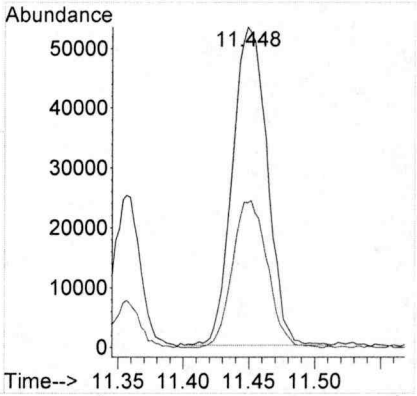


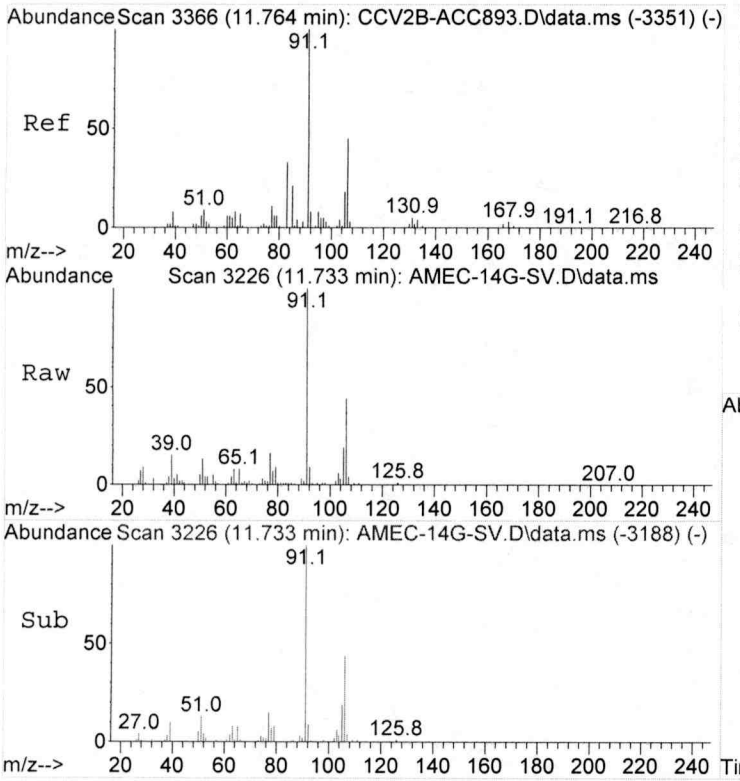


#66
m,p-Xylene
Concen: 6.911 ppbV
RT: 11.448 min Scan# 3124
Delta R.T. -0.002 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 91 Resp: 98111

Ion	Ratio	Lower	Upper
91	100		
106	46.3	16.6	76.6

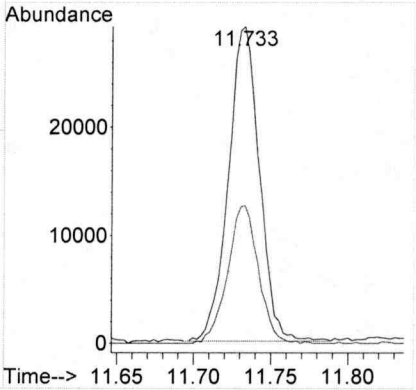


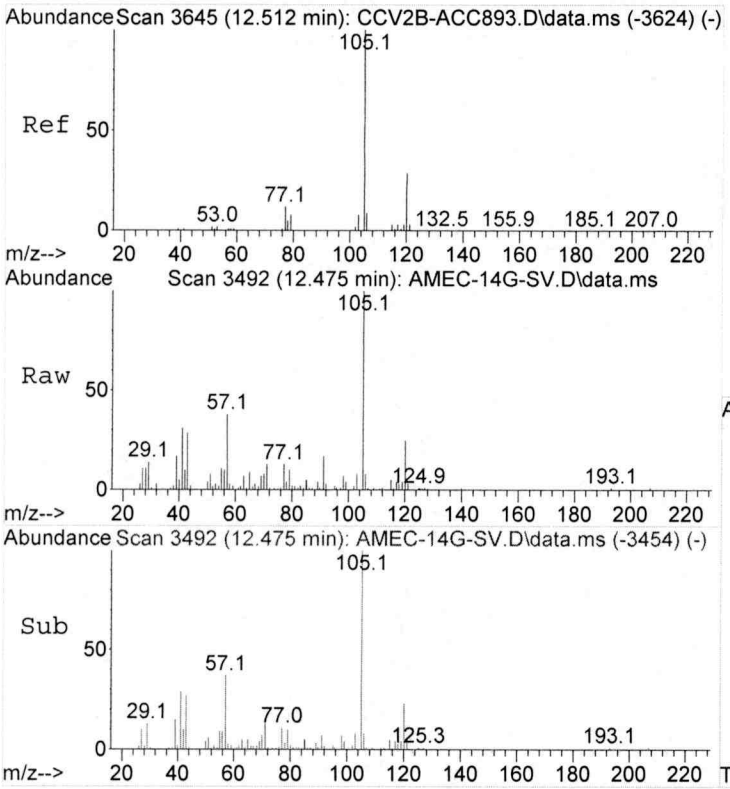


#70
o-Xylene
Concen: 2.626 ppbV
RT: 11.733 min Scan# 3226
Delta R.T. 0.006 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion: 91 Resp: 40734

Ion	Ratio	Lower	Upper
91	100		
106	43.4	13.1	73.1

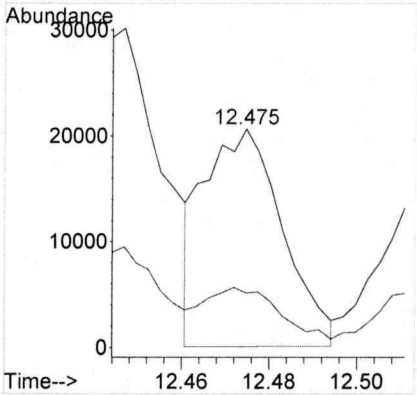


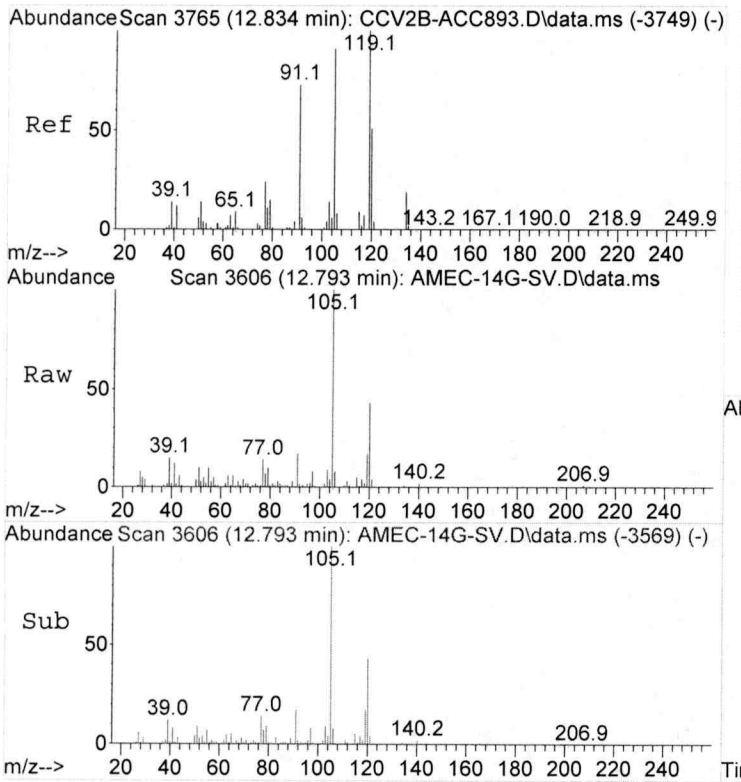


#78
4-Ethyltoluene
Concen: 1.048 ppbV
RT: 12.475 min Scan# 3492
Delta R.T. 0.005 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion:105 Resp: 25553

Ion	Ratio	Lower	Upper
105	100		
120	27.8	0.0	57.7

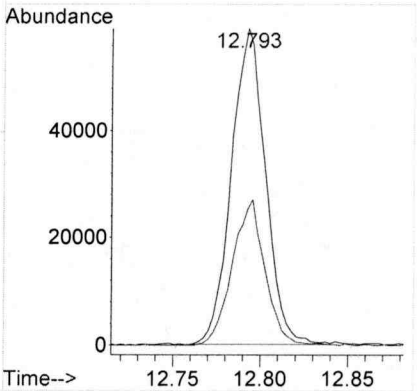




#81
1,2,4-Trimethylbenzene
Concen: 3.468 ppbV
RT: 12.793 min Scan# 3606
Delta R.T. 0.004 min
Lab File: AMEC-14G-SV.D
Acq: 20 Nov 2013 11:31 am

Tgt Ion:105 Resp: 79314

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.2	82.2



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-14B-SV.D
Acq On : 20 Nov 2013 12:05 pm
Operator : slc
Misc :
ALS Vial : 18 Sample Multiplier: 5

Quant Time: Jan 30 11:14:08 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-02 Inst : GCMS#12

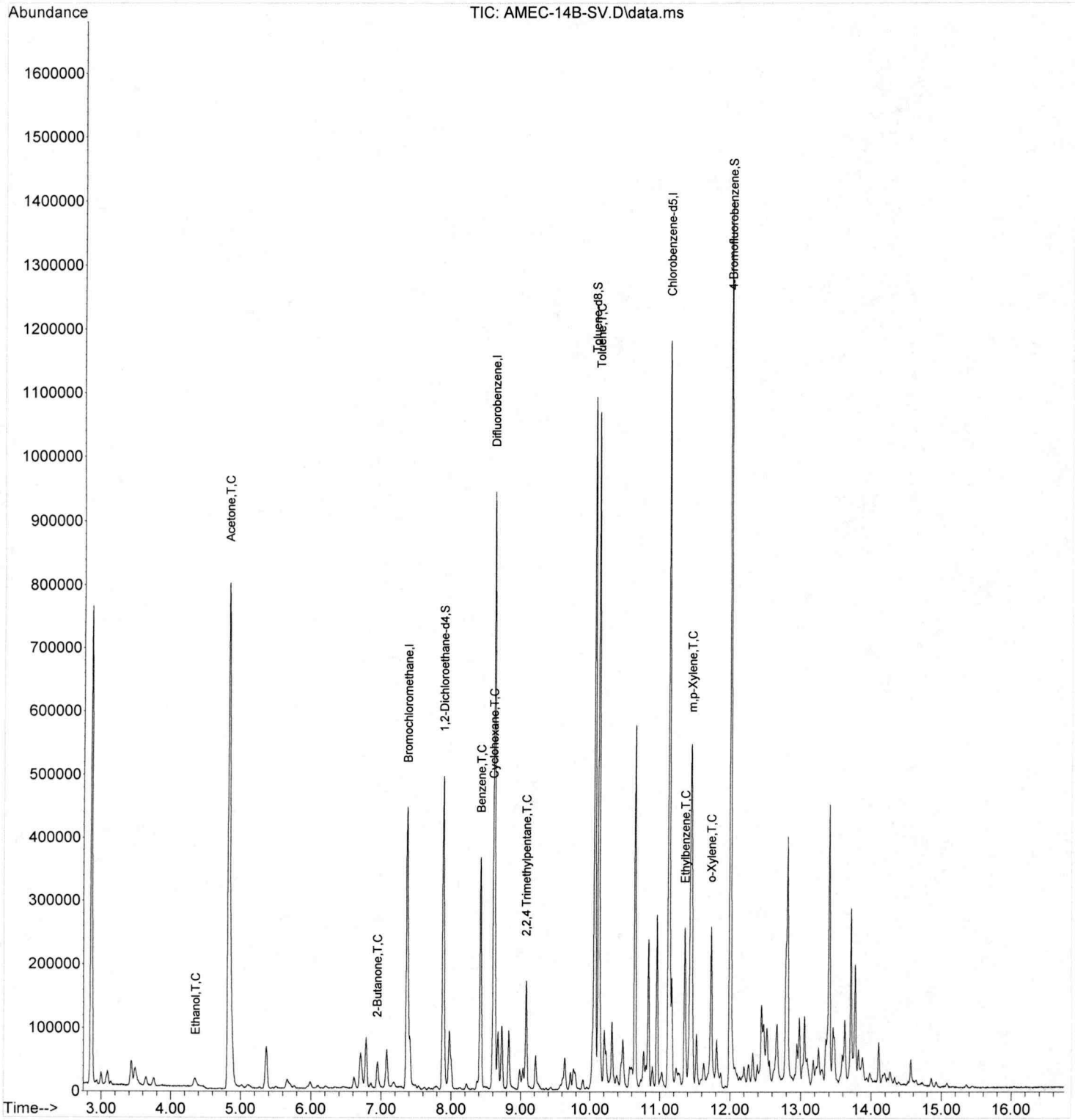
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.369	130	141920	50.00	ppbV	0.00
41) Difluorobenzene	8.615	114	553317	50.00	ppbV	0.00
63) Chlorobenzene-d5	11.131	82	300131	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.885	65	279748	53.72	ppbV	0.00
Spiked Amount 50.000			Recovery	=	107.44%	
55) Toluene-d8	10.065	98	545628	52.96	ppbV	0.00
Spiked Amount 50.000			Recovery	=	105.92%	
72) 4-Bromofluorobenzene	12.001	95	350180	48.23	ppbV	0.00
Spiked Amount 50.000			Recovery	=	96.46%	
Target Compounds						Qvalue
4) 1,1,-Difluoroethane	2.996	51	10514	4.395	ppbV	97
5) Propene	3.071	41	5792	4.852	ppbV	89
13) Ethanol	4.351	45	5838	5.127	ppbV	100
14) Acetone	4.823	43	1147573	188.947	ppbV	92
18) tert-Butanol	5.668	59	11873	1.454	ppbV	63
21) Carbon Disulfide	5.988	76	13143	1.572	ppbV	100
24) Methyl-tert-Butyl Ether	6.705	73	22006	2.378	ppbV #	48
26) 2-Butanone	6.945	43	40650	6.208	ppbV	96
30) Hexane	7.408	57	15526	4.671	ppbV	89
39) Benzene	8.423	78	244356	32.953	ppbV	99
42) Cyclohexane	8.601	84	23849	6.619	ppbV	86
49) 2,2,4 Trimethylpentane	9.078	57	71754	5.866	ppbV #	92
50) Heptane	9.218	71	5765	2.500	ppbV	95
56) Toluene	10.124	91	548069	41.655	ppbV	100
61) Tetrachloroethene	10.771	166	12937	1.675	ppbV	94
65) Ethylbenzene	11.357	91	129366	7.871	ppbV	99
66) m,p-Xylene	11.449	91	274218	18.035	ppbV	99
70) o-Xylene	11.730	91	109139	6.570	ppbV	100
81) 1,2,4-Trimethylbenzene	12.793	105	74639	3.047	ppbV	88

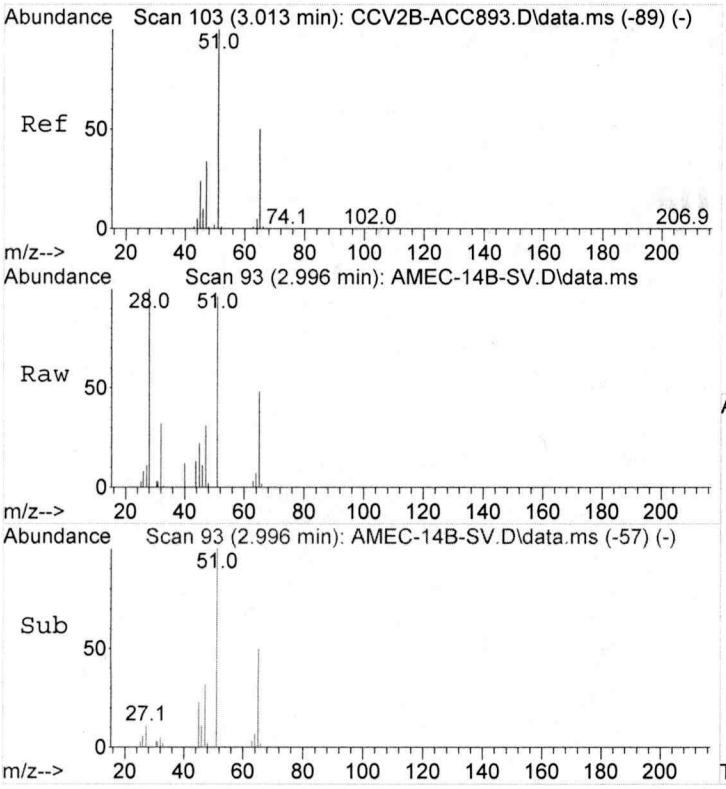
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-14B-SV.D
Acq On : 20 Nov 2013 12:05 pm
Operator : slc
Misc :
ALS Vial : 18 Sample Multiplier: 5

Quant Time: Jan 30 11:14:08 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-02 Inst : GCMS#12

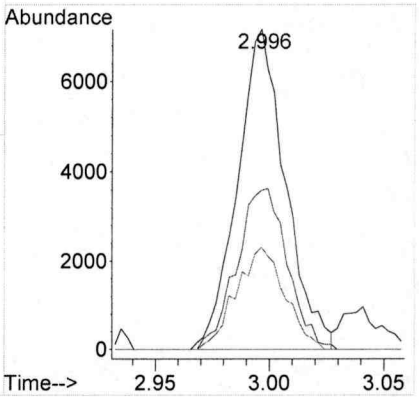


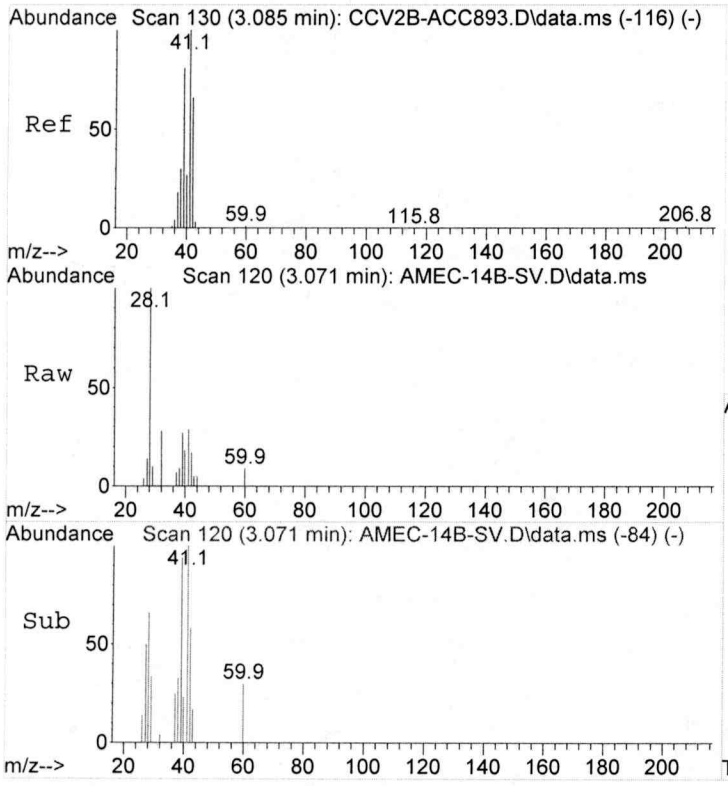


#4
1,1,-Difluoroethane
Concen: 4.395 ppbV
RT: 2.996 min Scan# 93
Delta R.T. 0.002 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 51 Resp: 10514

Ion	Ratio	Lower	Upper
51	100		
65	53.2	25.3	85.3
47	32.6	4.4	64.4

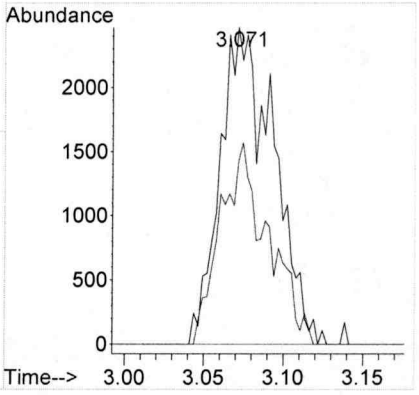


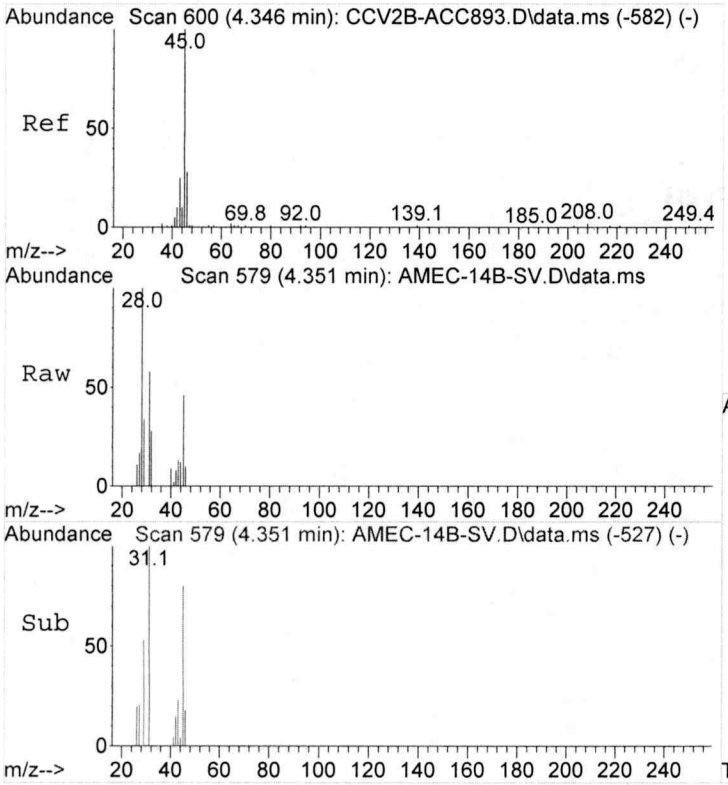


#5
Propene
Concen: 4.852 ppbV
RT: 3.071 min Scan# 120
Delta R.T. 0.001 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 41 Resp: 5792

Ion	Ratio	Lower	Upper
41	100		
42	56.4	35.1	95.1

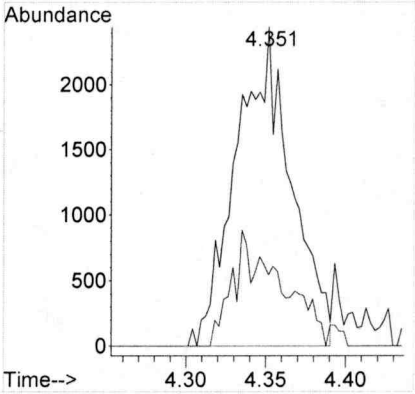


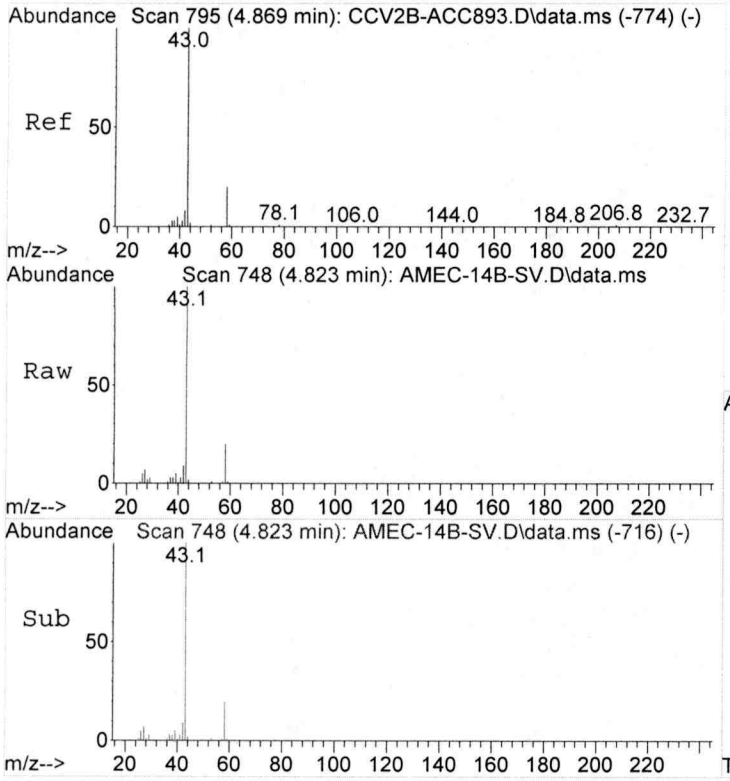


#13
Ethanol
Concen: 5.127 ppbV
RT: 4.351 min Scan# 579
Delta R.T. 0.045 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 45 Resp: 5838

Ion	Ratio	Lower	Upper
45	100		
46	18.3	0.0	30.0

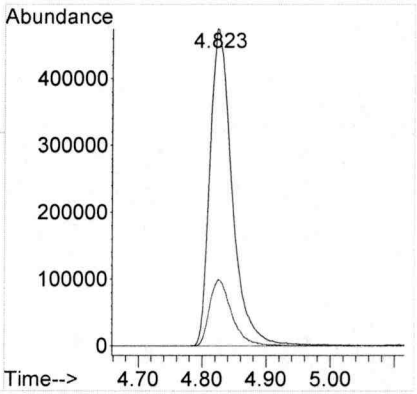


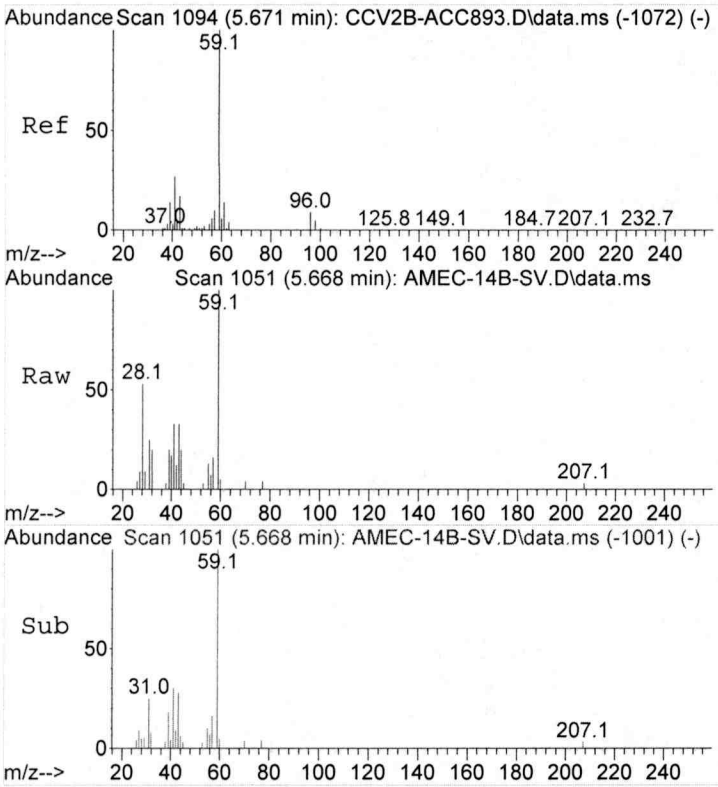


#14
Acetone
Concen: 188.947 ppbV
RT: 4.823 min Scan# 748
Delta R.T. -0.011 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 43 Resp: 1147573

Ion	Ratio	Lower	Upper
43	100		
58	20.9	0.0	47.3

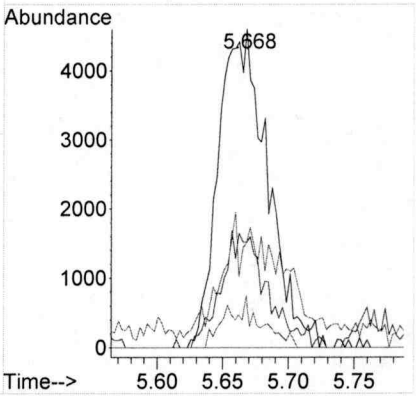


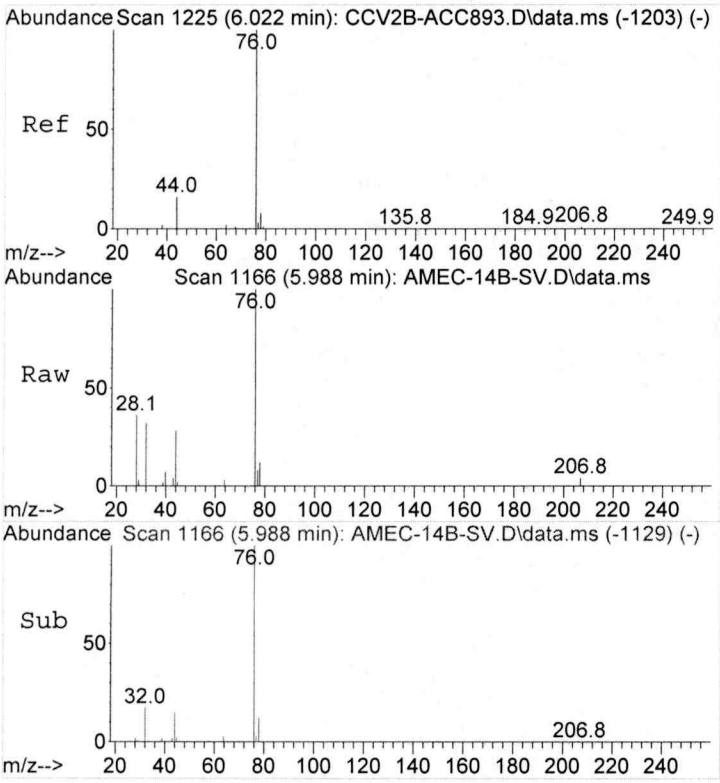


#18
tert-Butanol
Concen: 1.454 ppbV
RT: 5.668 min Scan# 1051
Delta R.T. 0.040 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 59 Resp: 11873

Ion	Ratio	Lower	Upper
59	100		
41	4.9	0.0	57.7
43	23.4	0.0	35.5
57	7.0	0.0	37.6

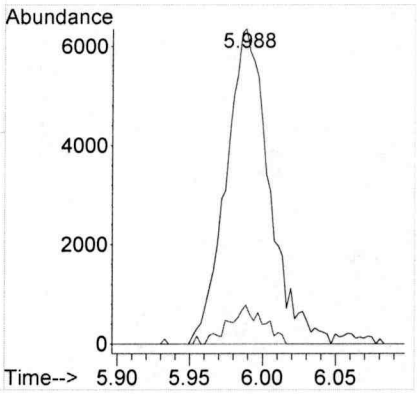


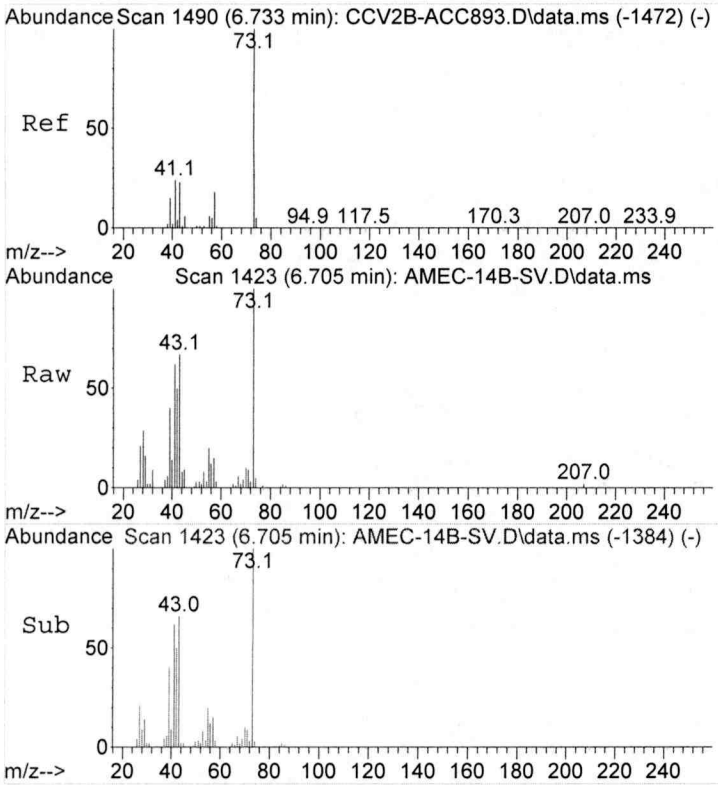


#21
Carbon Disulfide
Concen: 1.572 ppbV
RT: 5.988 min Scan# 1166
Delta R.T. 0.003 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 76 Resp: 13143

Ion	Ratio	Lower	Upper
76	100		
78	9.5	0.0	39.5

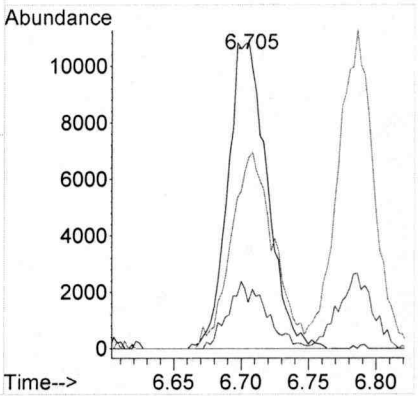


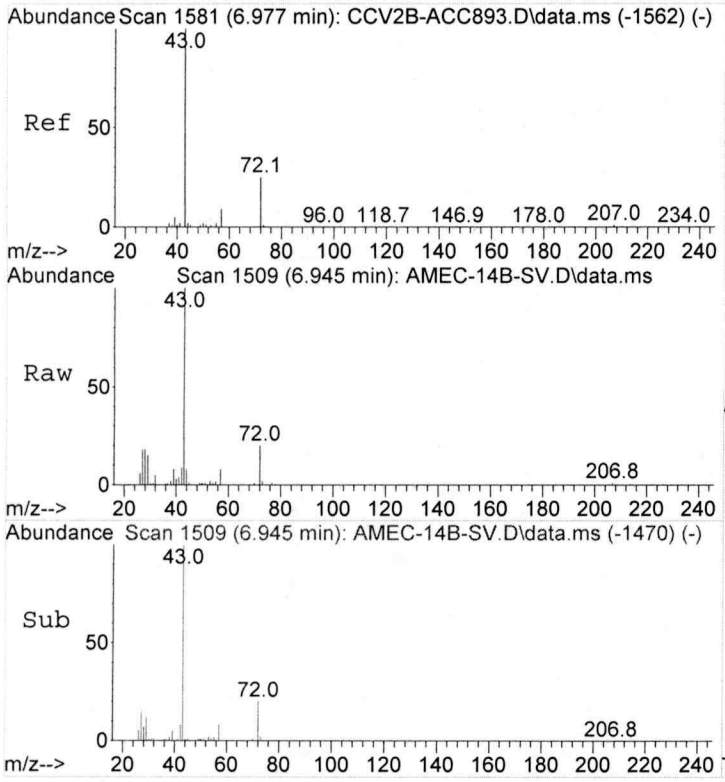


#24
Methyl-tert-Butyl Ether
Concen: 2.378 ppbV
RT: 6.705 min Scan# 1423
Delta R.T. 0.010 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 73 Resp: 22006

Ion	Ratio	Lower	Upper
73	100		
57	21.2	15.1	22.7
41	69.2	20.3	30.5#

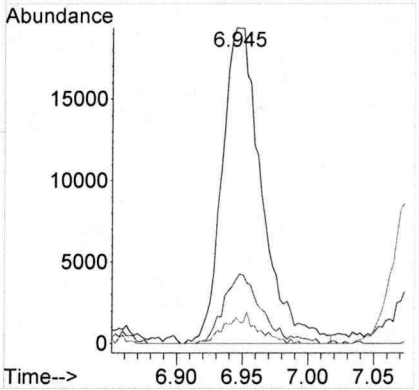


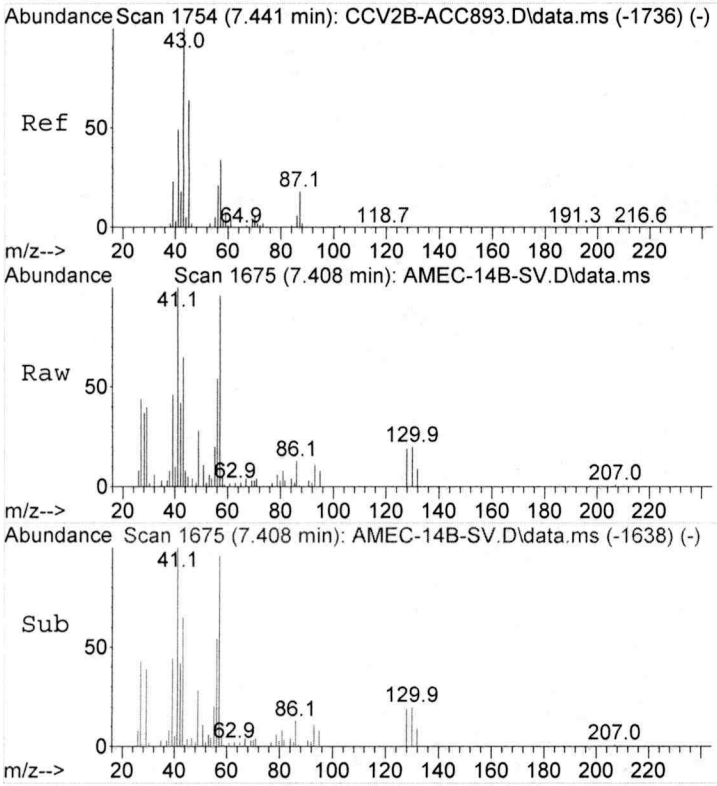


#26
2-Butanone
Concen: 6.208 ppbV
RT: 6.945 min Scan# 1509
Delta R.T. 0.008 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 43 Resp: 40650

Ion	Ratio	Lower	Upper
43	100		
72	20.1	0.0	51.3
57	7.6	0.0	32.0

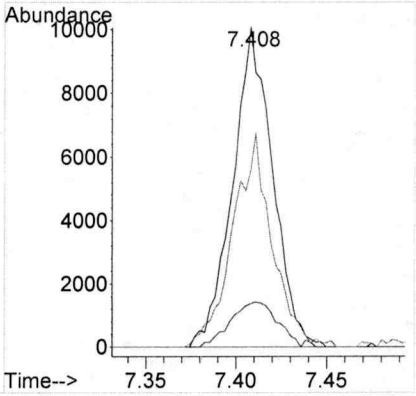


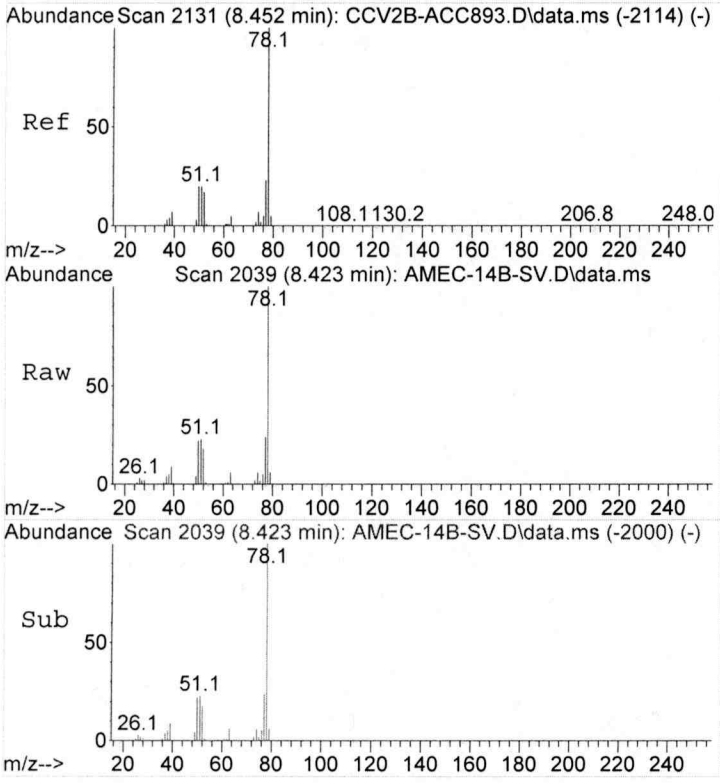


#30
Hexane
Concen: 4.671 ppbV
RT: 7.408 min Scan# 1675
Delta R.T. 0.004 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 57 Resp: 15526

Ion	Ratio	Lower	Upper
57	100		
86	16.5	0.0	47.3
56	65.8	26.1	86.1

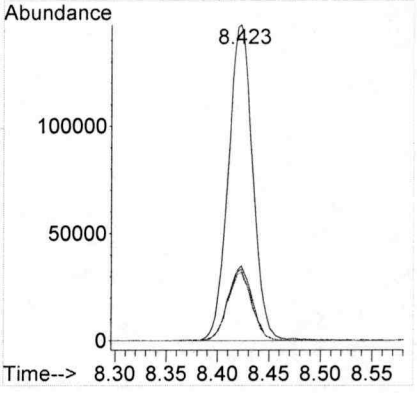


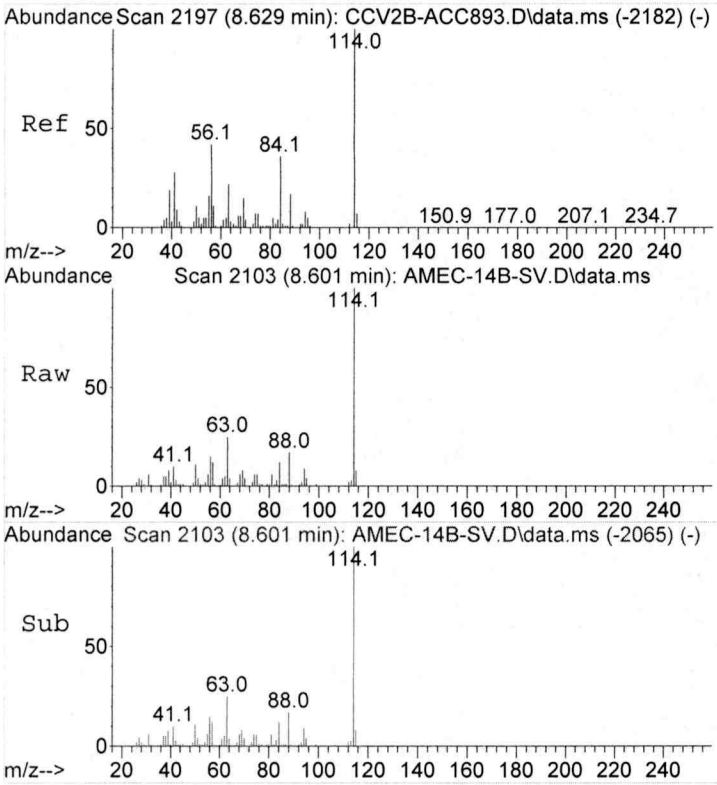


#39
Benzene
Concen: 32.953 ppbV
RT: 8.423 min Scan# 2039
Delta R.T. 0.008 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 78 Resp: 244356

Ion	Ratio	Lower	Upper
78	100		
77	23.6	0.0	54.2
50	21.4	0.0	50.5
51	21.8	0.0	51.1

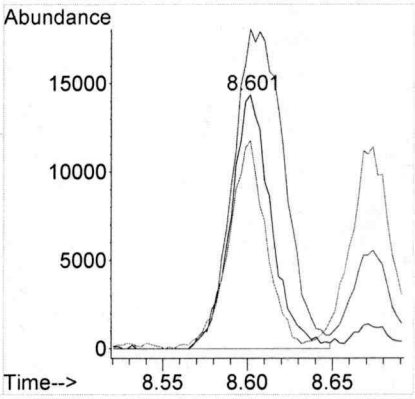


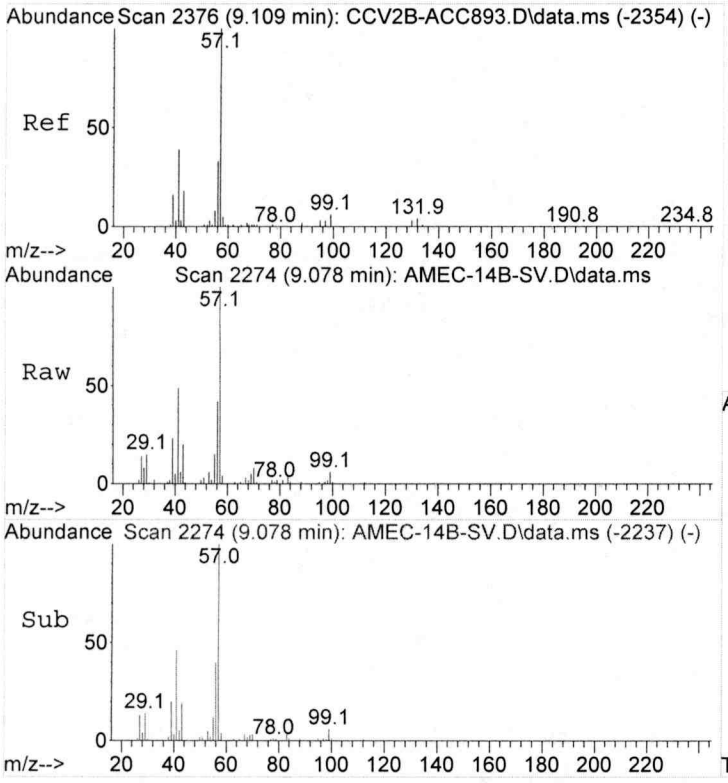


#42
Cyclohexane
Concen: 6.619 ppbV
RT: 8.601 min Scan# 2103
Delta R.T. 0.007 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 84 Resp: 23849

Ion	Ratio	Lower	Upper
84	100		
56	160.9	107.0	167.0
41	76.5	43.0	103.0

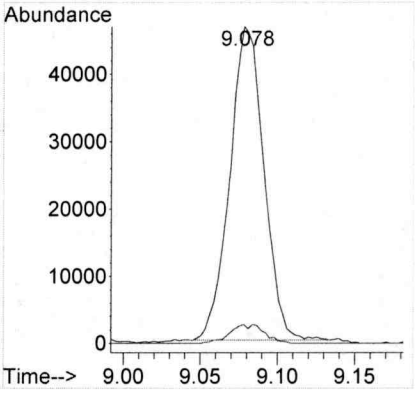


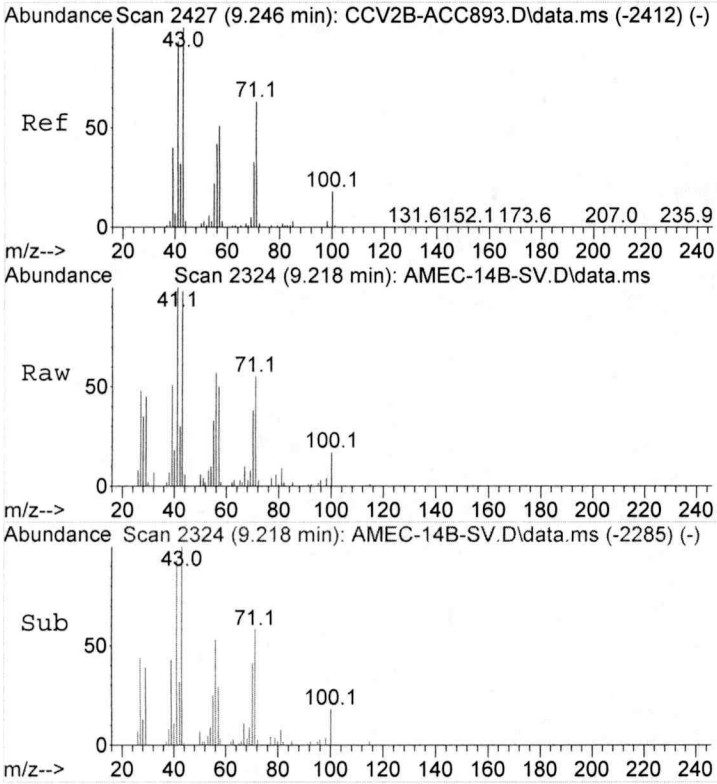


#49
2,2,4 Trimethylpentane
Concen: 5.866 ppbV
RT: 9.078 min Scan# 2274
Delta R.T. 0.004 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 57 Resp: 71754

Ion	Ratio	Lower	Upper
57	100		
99	6.0	7.0	10.4#

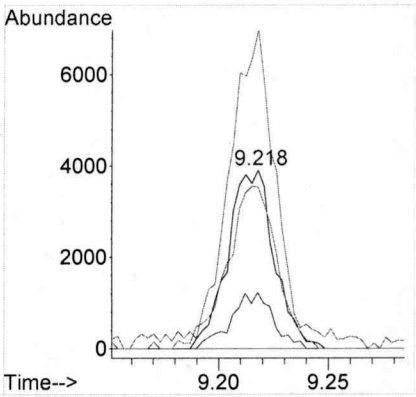


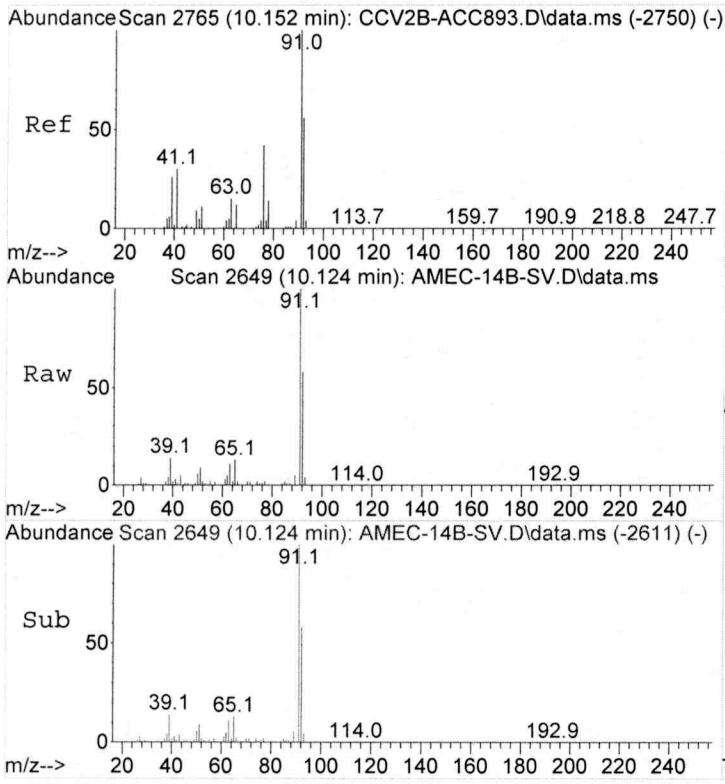


#50
Heptane
Concen: 2.500 ppbV
RT: 9.218 min Scan# 2324
Delta R.T. 0.009 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 71 Resp: 5765

Ion	Ratio	Lower	Upper
71	100		
100	28.2	1.2	61.2
57	97.5	61.4	121.4
43	164.1	139.4	199.4

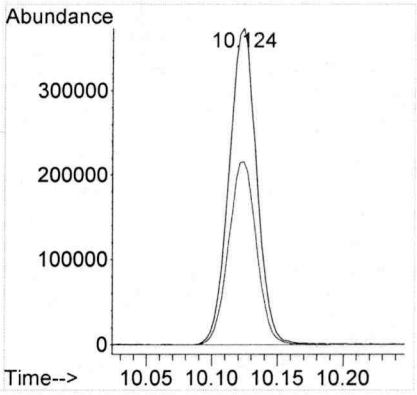


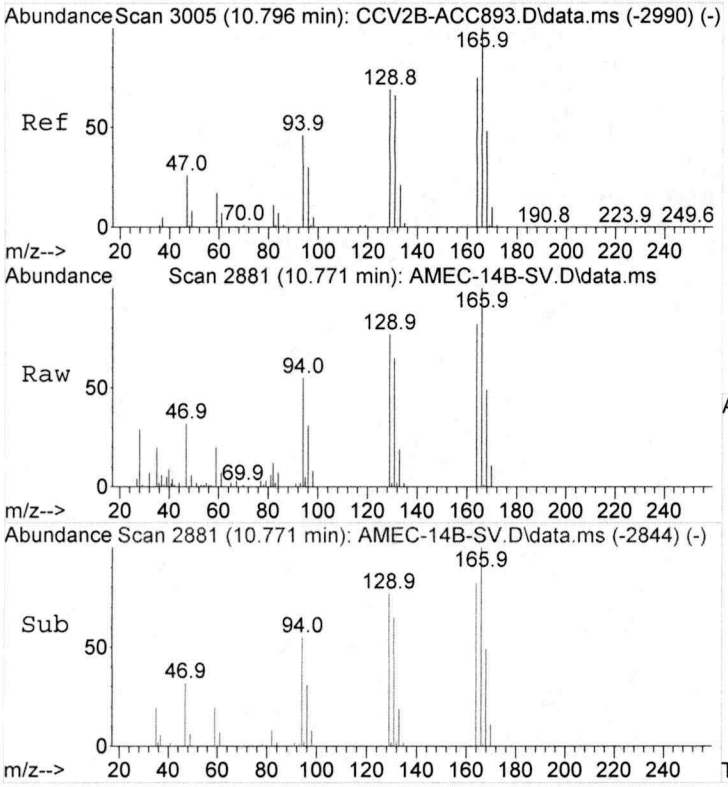


#56
Toluene
Concen: 41.655 ppbV
RT: 10.124 min Scan# 2649
Delta R.T. 0.006 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 91 Resp: 548069

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.5	88.5

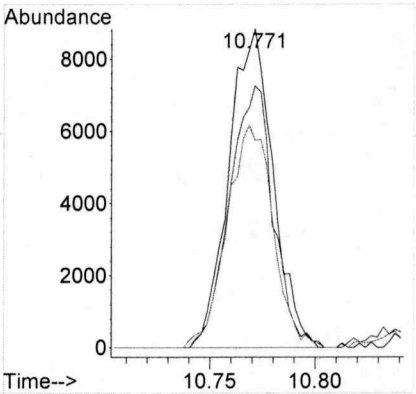


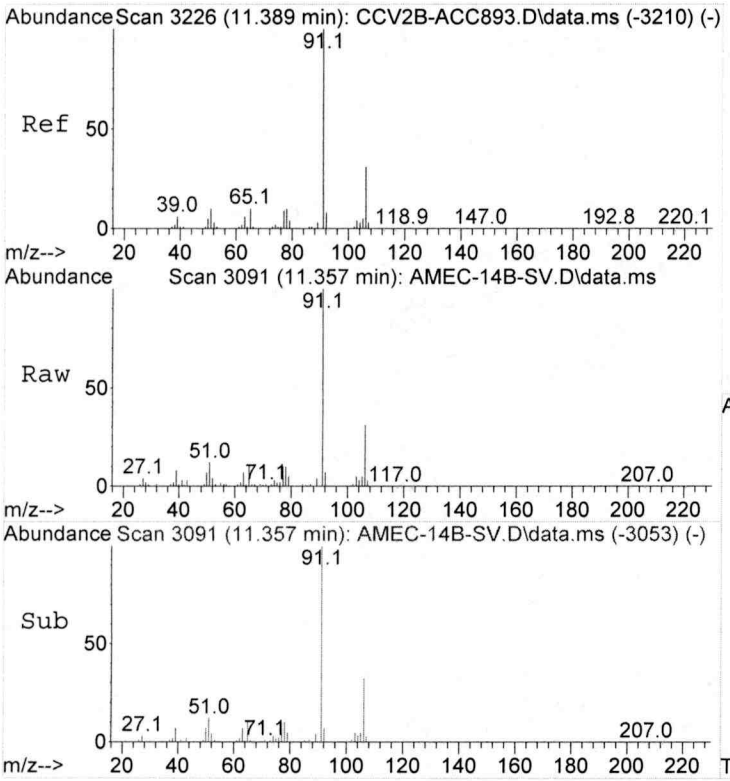


#61
Tetrachloroethene
Concen: 1.675 ppbV
RT: 10.771 min Scan# 2881
Delta R.T. 0.004 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion:166 Resp: 12937

Ion	Ratio	Lower	Upper
166	100		
164	81.2	47.1	107.1
131	72.7	37.3	97.3

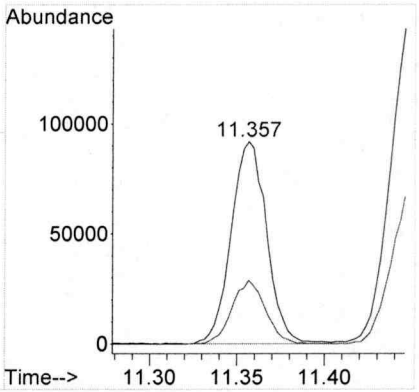


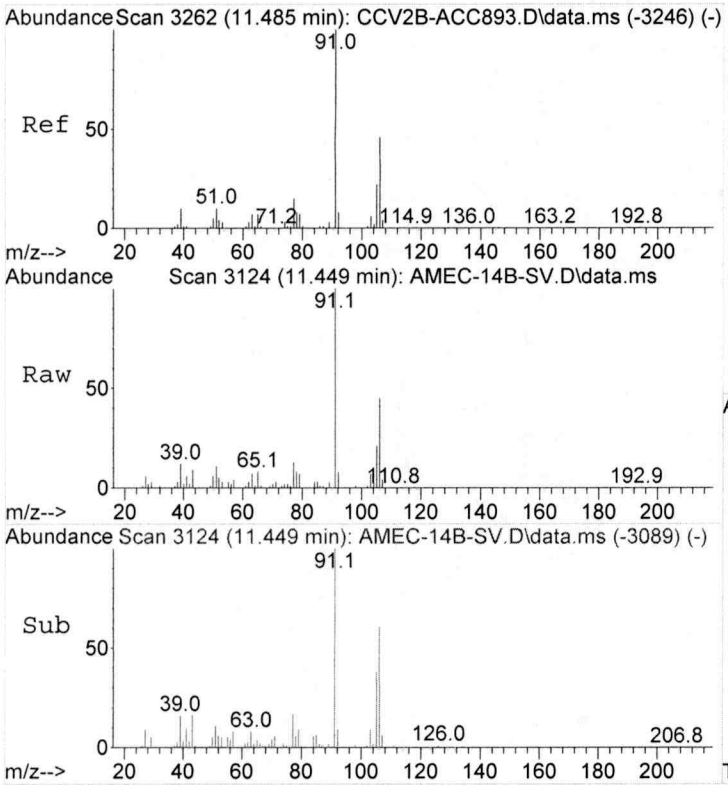


#65
Ethylbenzene
Concen: 7.871 ppbV
RT: 11.357 min Scan# 3091
Delta R.T. 0.005 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 91 Resp: 129366

Ion	Ratio	Lower	Upper
91	100		
106	29.8	0.0	59.5

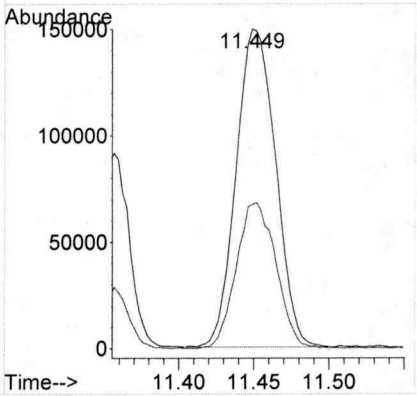


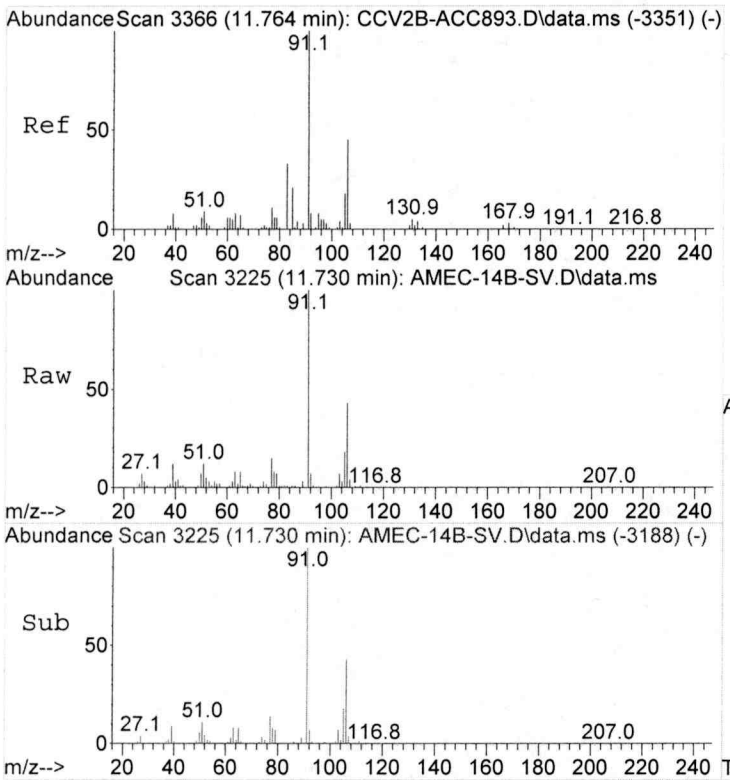


#66
m,p-Xylene
Concen: 18.035 ppbV
RT: 11.449 min Scan# 3124
Delta R.T. -0.002 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 91 Resp: 274218

Ion	Ratio	Lower	Upper
91	100		
106	46.0	16.6	76.6

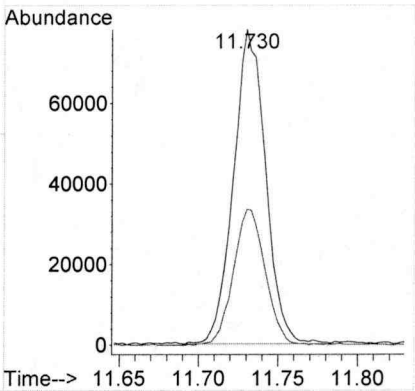


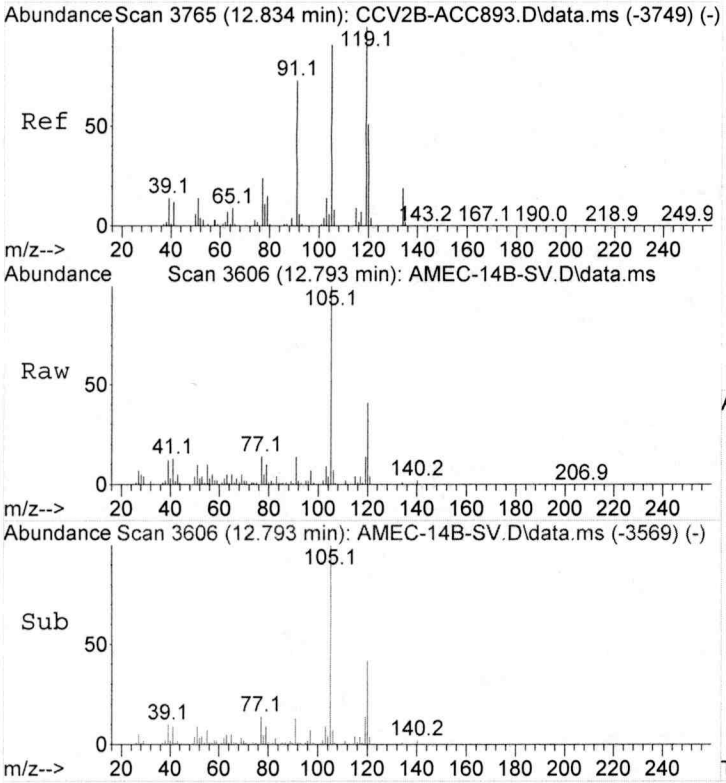


#70
o-Xylene
Concen: 6.570 ppbV
RT: 11.730 min Scan# 3225
Delta R.T. 0.003 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion: 91 Resp: 109139

Ion	Ratio	Lower	Upper
91	100		
106	43.0	13.1	73.1

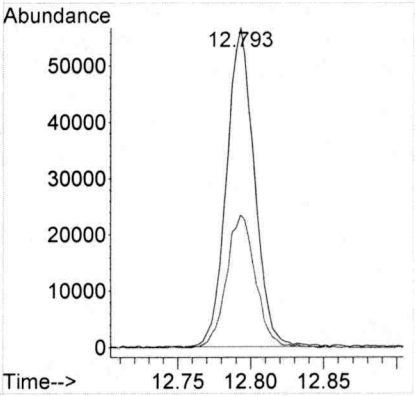




#81
1,2,4-Trimethylbenzene
Concen: 3.047 ppbV
RT: 12.793 min Scan# 3606
Delta R.T. 0.004 min
Lab File: AMEC-14B-SV.D
Acq: 20 Nov 2013 12:05 pm

Tgt Ion:105 Resp: 74639

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.2	82.2



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-3B-SV.D
Acq On : 20 Nov 2013 12:40 pm
Operator : slc
Misc :
ALS Vial : 19 Sample Multiplier: 5

Quant Time: Jan 30 11:16:38 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-03 Inst : GCMS#12

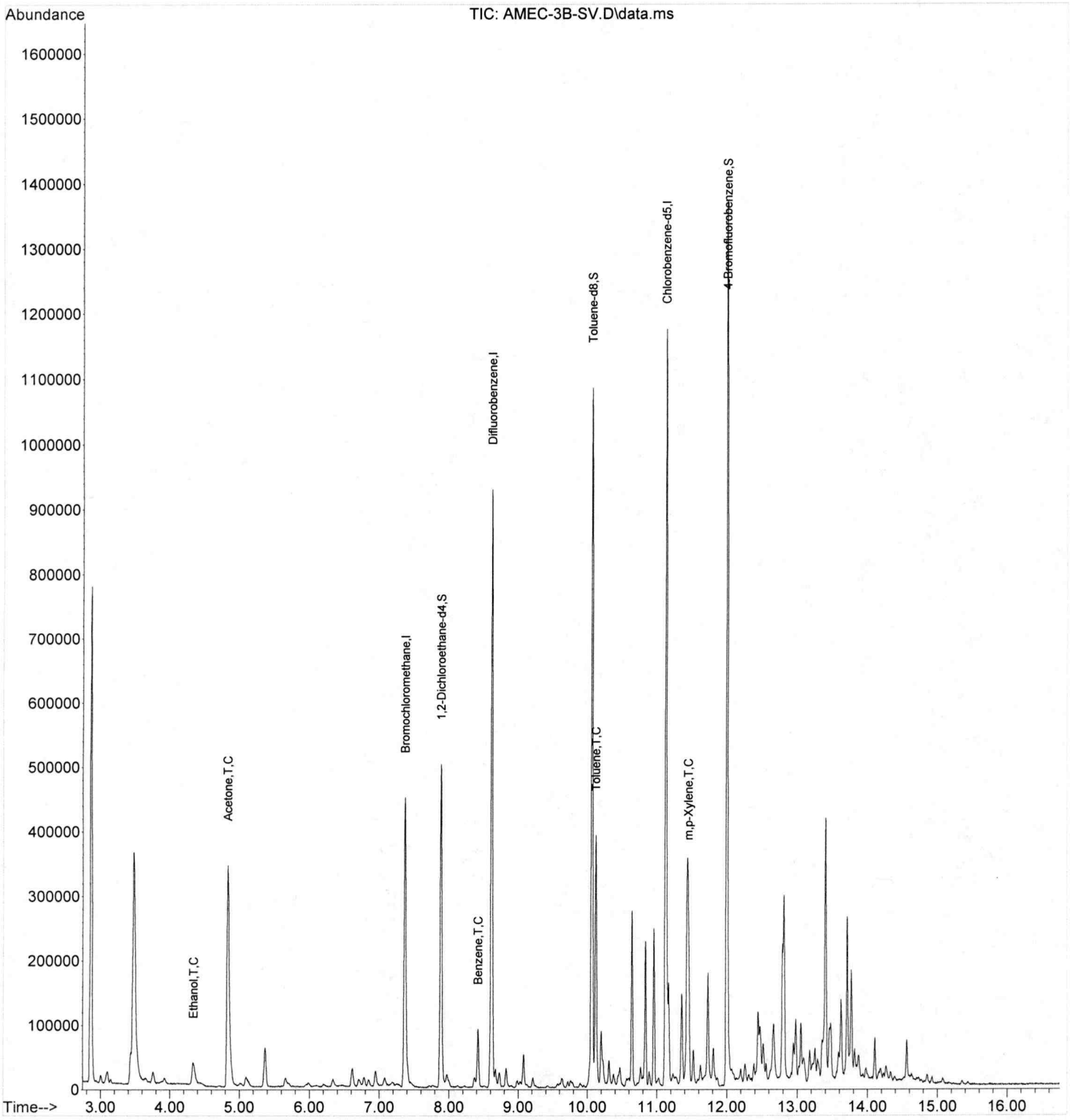
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.366	130	146578	50.00	ppbV	0.00
41) Difluorobenzene	8.612	114	555516	50.00	ppbV	0.00
63) Chlorobenzene-d5	11.125	82	295087	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.882	65	285943	53.17	ppbV	0.00
Spiked Amount 50.000			Recovery	=	106.34%	
55) Toluene-d8	10.063	98	539155	52.13	ppbV	0.00
Spiked Amount 50.000			Recovery	=	104.26%	
72) 4-Bromofluorobenzene	11.998	95	353431	49.51	ppbV	0.00
Spiked Amount 50.000			Recovery	=	99.02%	
Target Compounds						Qvalue
4) 1,1,-Difluoroethane	3.004	51	6742	2.728	ppbV	92
5) Propene	3.083	41	4863	3.944	ppbV #	61
13) Ethanol	4.340	45	16127	13.712	ppbV #	100
14) Acetone	4.831	43	487372	77.695	ppbV	90
16) Isopropanol	5.093	45	15976	2.693	ppbV #	100
18) tert-Butanol	5.656	59	10599	1.257	ppbV #	92
26) 2-Butanone	6.950	43	23700	3.505	ppbV	99
39) Benzene	8.417	78	57615	7.523	ppbV	98
42) Cyclohexane	8.601	84	14342	3.965	ppbV #	65
49) 2,2,4 Trimethylpentane	9.078	57	21052	1.714	ppbV #	92
56) Toluene	10.118	91	206380	15.623	ppbV	98
65) Ethylbenzene	11.356	91	70928	4.389	ppbV	100
66) m,p-Xylene	11.448	91	163247	10.920	ppbV	100
70) o-Xylene	11.730	91	72707	4.452	ppbV	99
81) 1,2,4-Trimethylbenzene	12.790	105	72207	2.998	ppbV	87

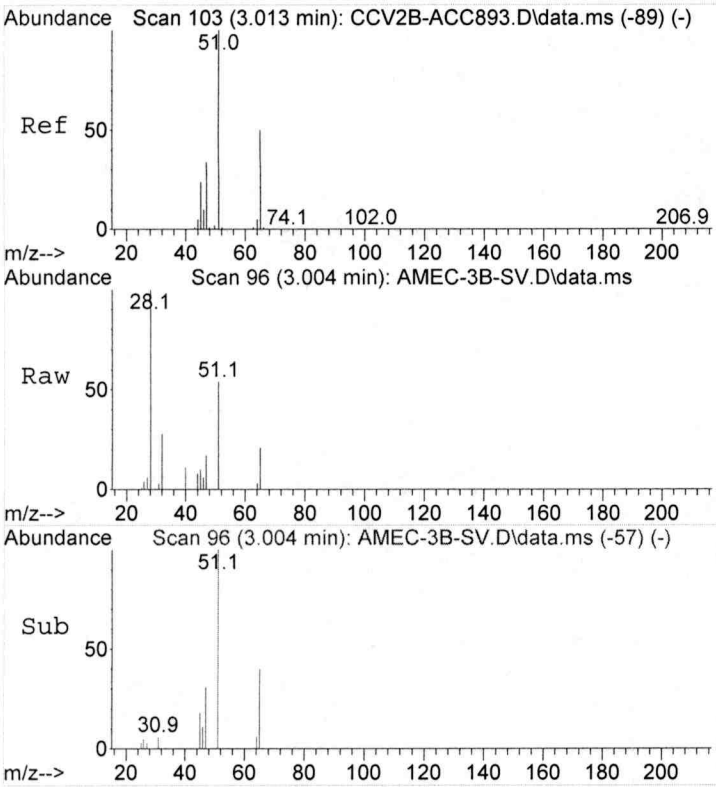
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-3B-SV.D
Acq On : 20 Nov 2013 12:40 pm
Operator : slc
Misc :
ALS Vial : 19 Sample Multiplier: 5

Quant Time: Jan 30 11:16:38 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-03 Inst : GCMS#12

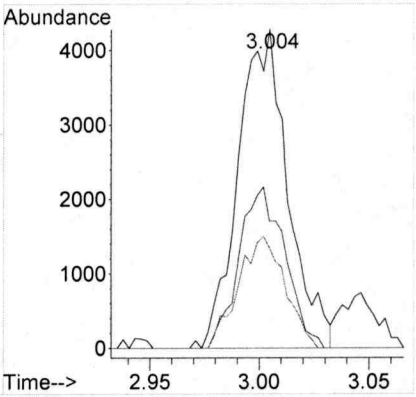


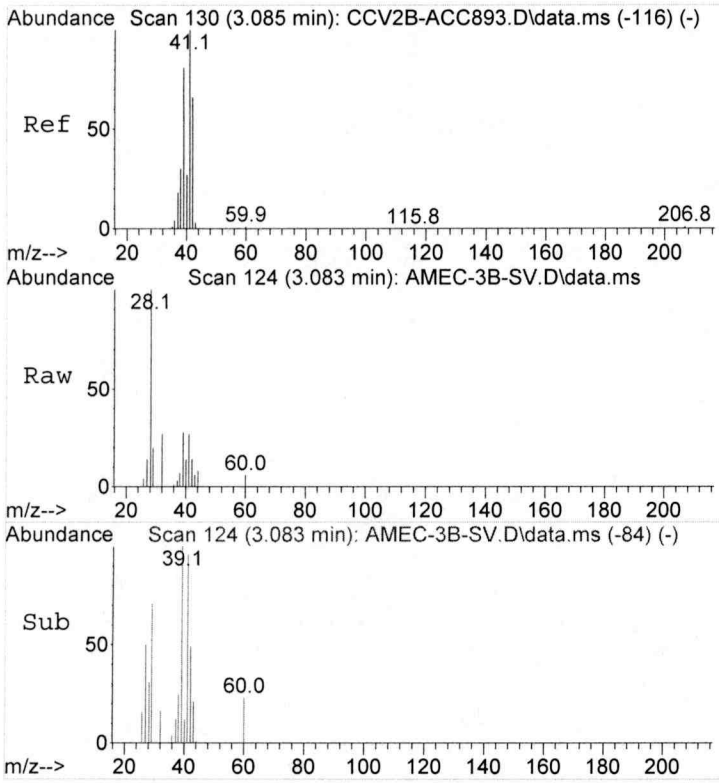


#4
1,1,-Difluoroethane
Concen: 2.728 ppbV
RT: 3.004 min Scan# 96
Delta R.T. 0.010 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 51 Resp: 6742

Ion	Ratio	Lower	Upper
51	100		
65	46.7	25.3	85.3
47	32.9	4.4	64.4

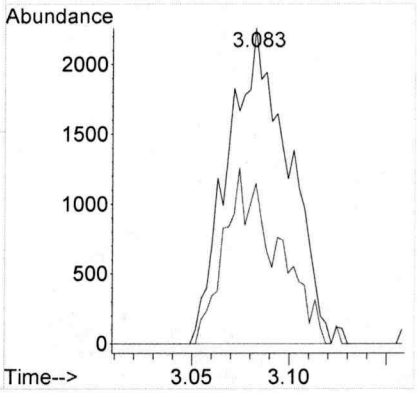


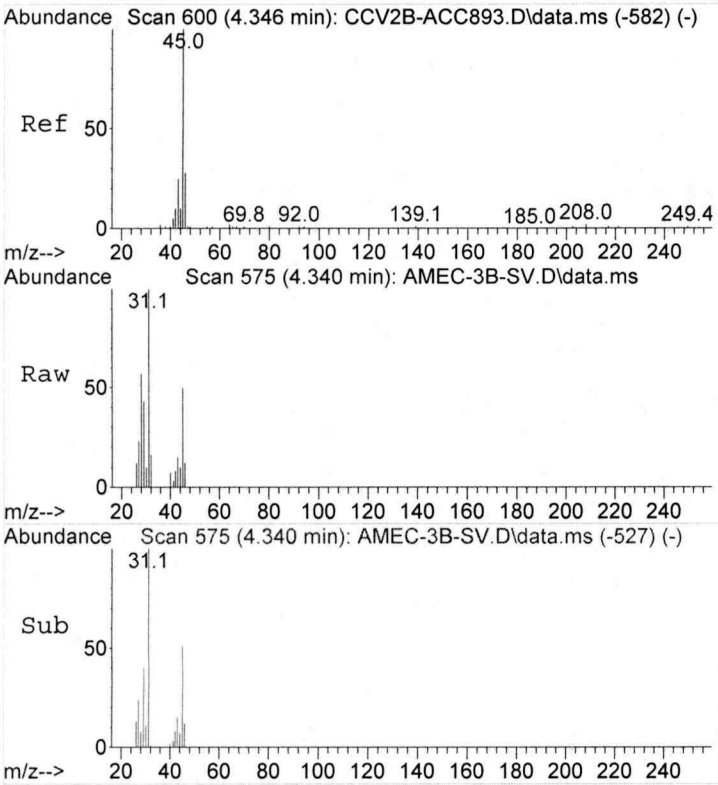


#5
Propene
Concen: 3.944 ppbV
RT: 3.083 min Scan# 124
Delta R.T. 0.013 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 41 Resp: 4863

Ion	Ratio	Lower	Upper
41	100		
42	34.7	35.1	95.1#

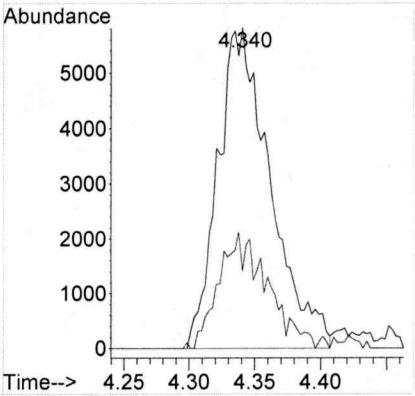


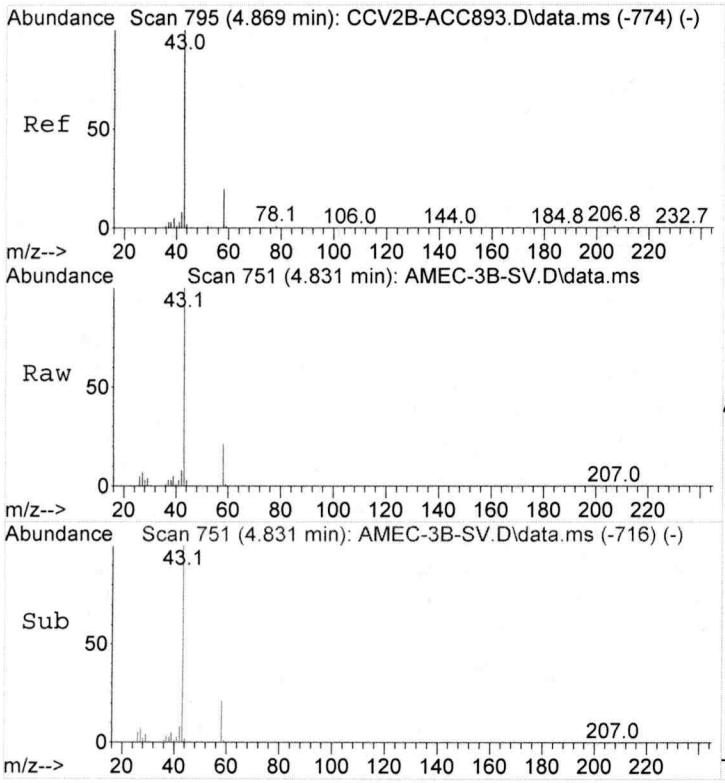


#13
Ethanol
Concen: 13.712 ppbV
RT: 4.340 min Scan# 575
Delta R.T. 0.034 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 45 Resp: 16127

Ion	Ratio	Lower	Upper
45	100		
46	33.6	0.0	30.0#

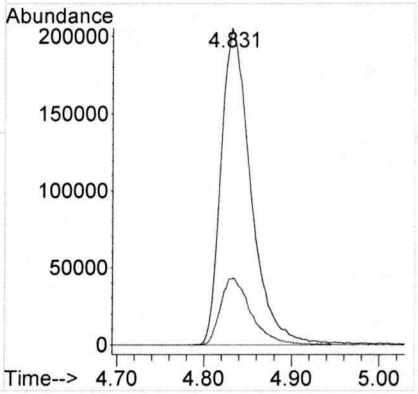


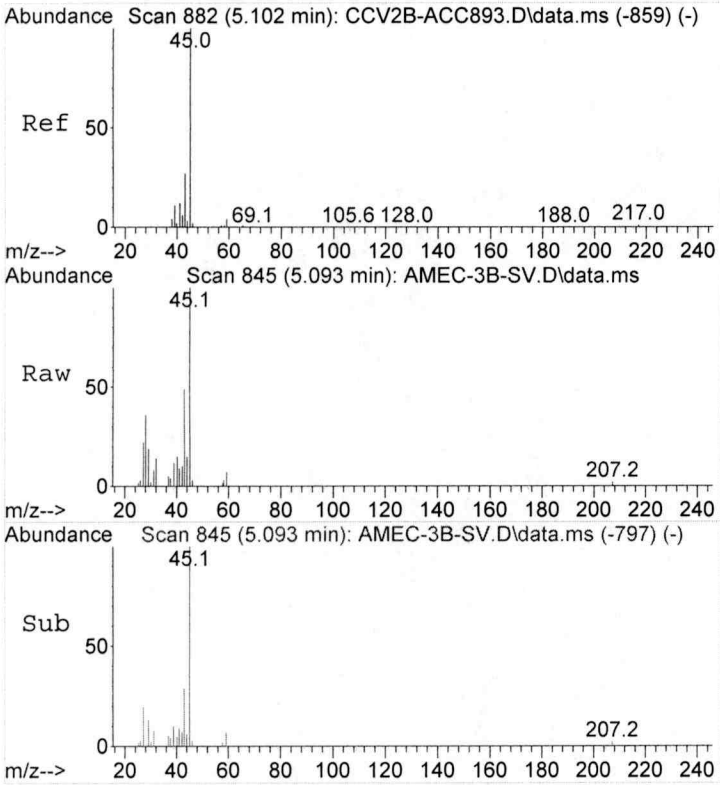


#14
Acetone
Concen: 77.695 ppbV
RT: 4.831 min Scan# 751
Delta R.T. -0.003 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 43 Resp: 487372

Ion	Ratio	Lower	Upper
43	100		
58	21.7	0.0	47.3

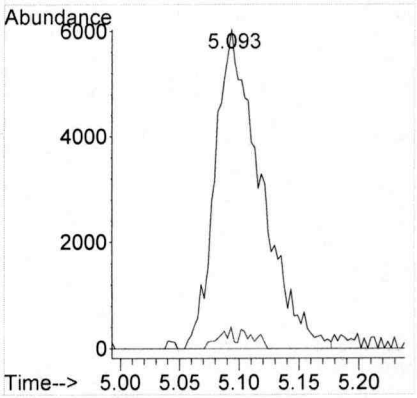


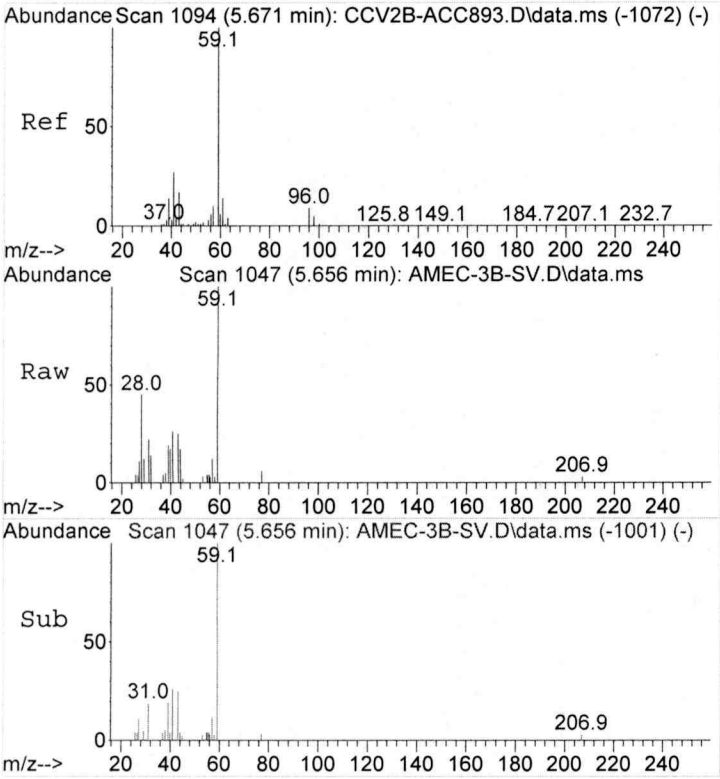


#16
Isopropanol
Concen: 2.693 ppbV
RT: 5.093 min Scan# 845
Delta R.T. 0.033 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 45 Resp: 15976

Ion	Ratio	Lower	Upper
45	100		
59	0.0	0.0	30.0

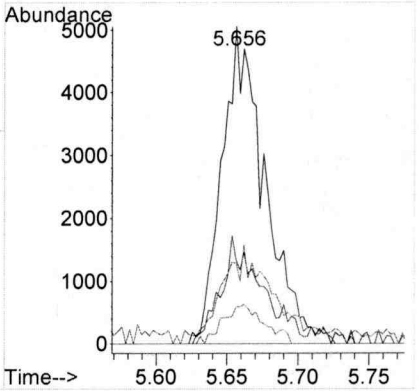


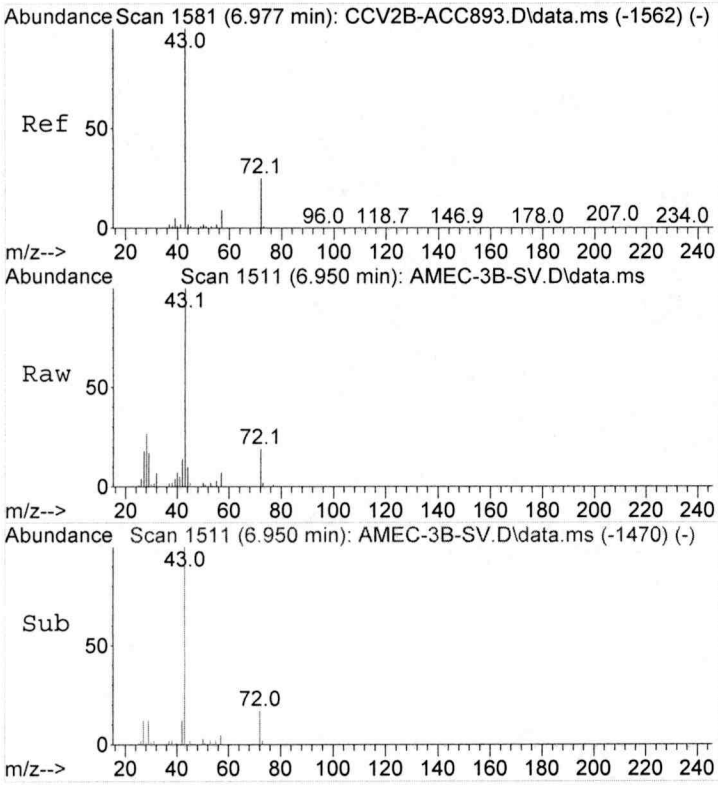


#18
tert-Butanol
Concen: 1.257 ppbV
RT: 5.656 min Scan# 1047
Delta R.T. 0.028 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 59 Resp: 10599

Ion	Ratio	Lower	Upper
59	100		
41	28.9	0.0	57.7
43	11.8	0.0	35.5
57	0.0	0.0	37.6

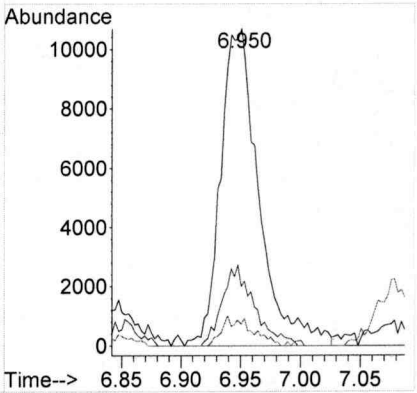


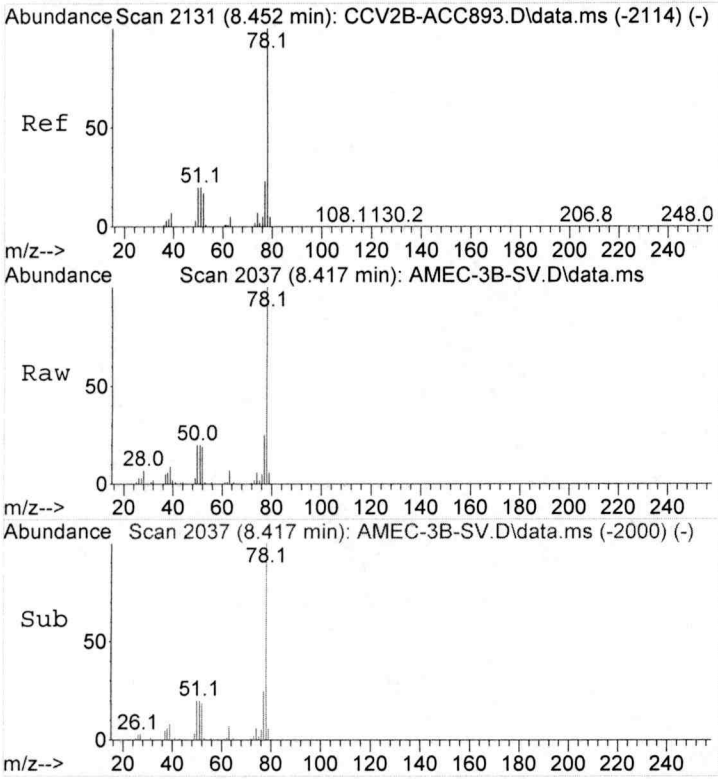


#26
2-Butanone
Concen: 3.505 ppbV
RT: 6.950 min Scan# 1511
Delta R.T. 0.013 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 43 Resp: 23700

Ion	Ratio	Lower	Upper
43	100		
72	21.5	0.0	51.3
57	4.1	0.0	32.0

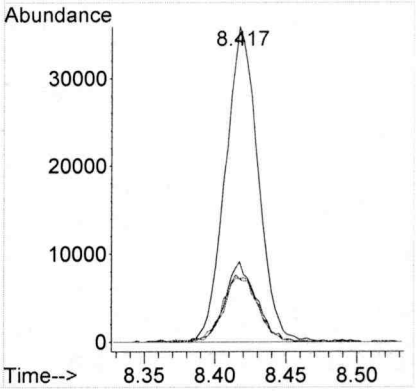


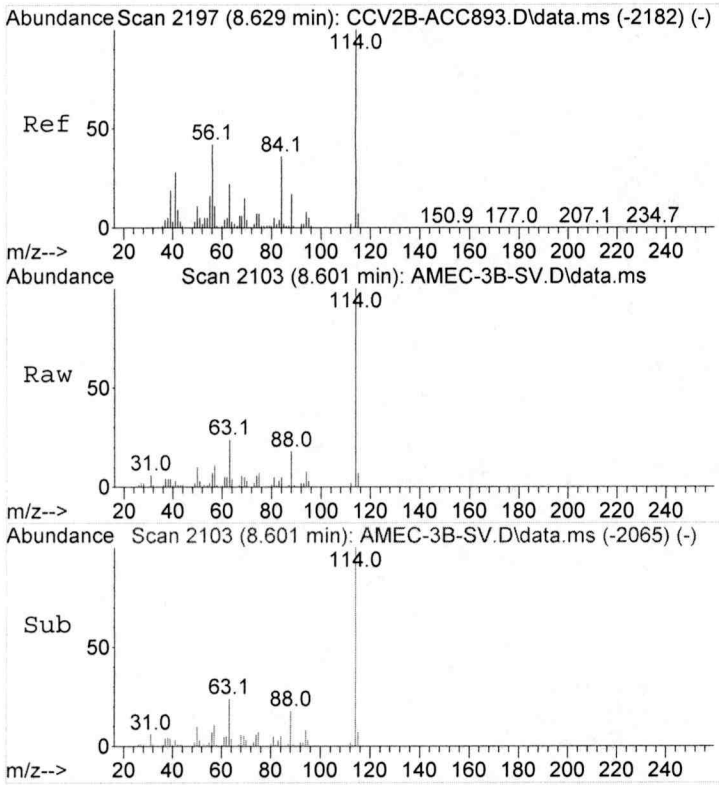


#39
Benzene
Concen: 7.523 ppbV
RT: 8.417 min Scan# 2037
Delta R.T. 0.002 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 78 Resp: 57615

Ion	Ratio	Lower	Upper
78	100		
77	24.3	0.0	54.2
50	22.6	0.0	50.5
51	21.8	0.0	51.1

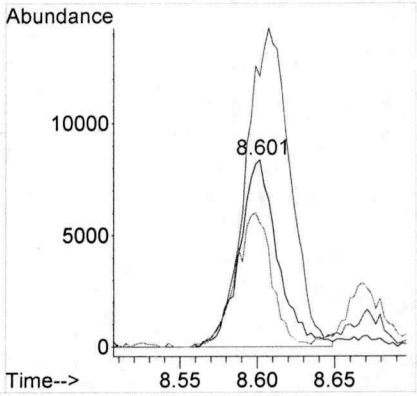


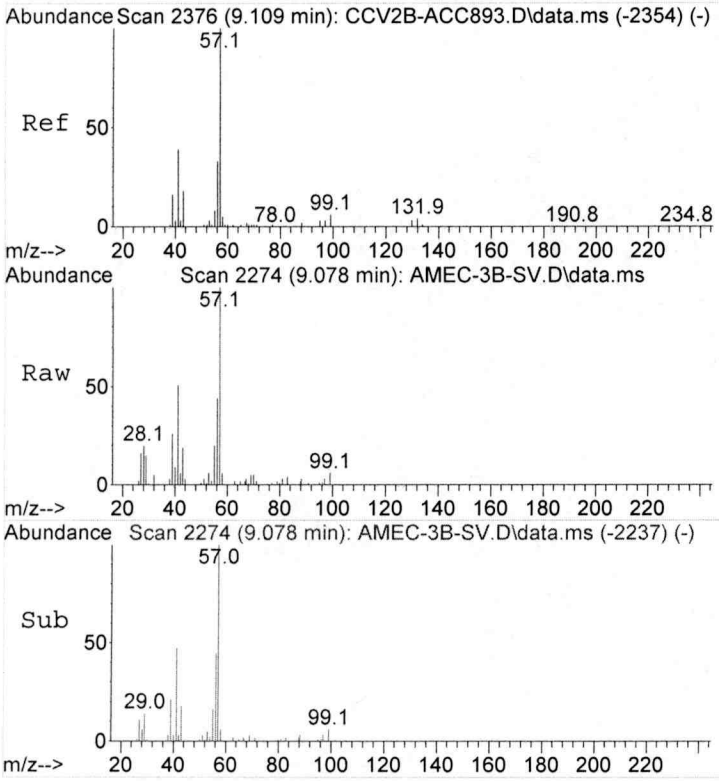


#42
Cyclohexane
Concen: 3.965 ppbV
RT: 8.601 min Scan# 2103
Delta R.T. 0.007 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 84 Resp: 14342

Ion	Ratio	Lower	Upper
84	100		
56	198.5	107.0	167.0#
41	69.1	43.0	103.0

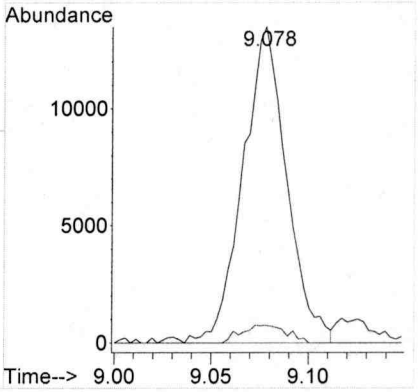


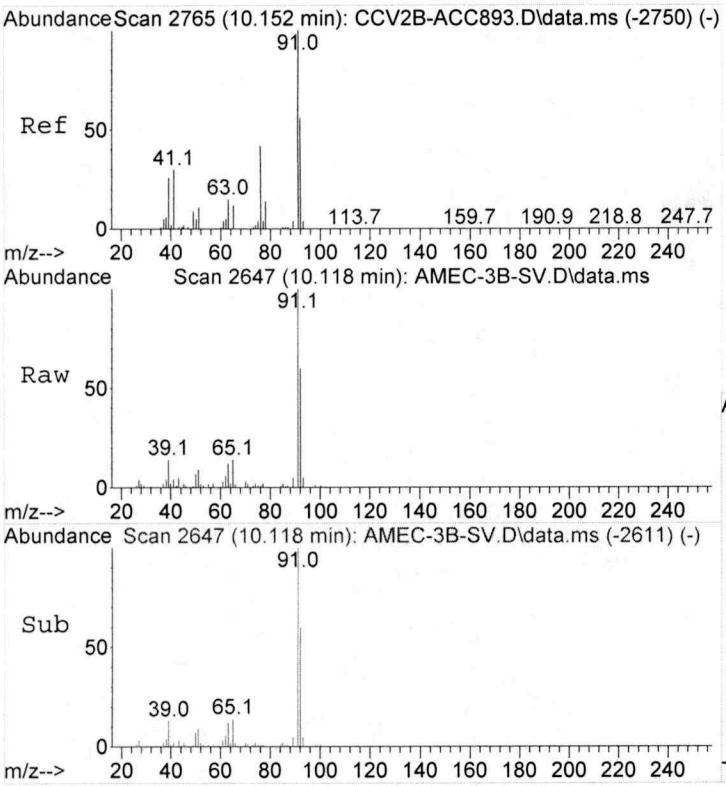


#49
2,2,4 Trimethylpentane
Concen: 1.714 ppbV
RT: 9.078 min Scan# 2274
Delta R.T. 0.004 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 57 Resp: 21052

Ion	Ratio	Lower	Upper
57	100		
99	5.8	7.0	10.4#

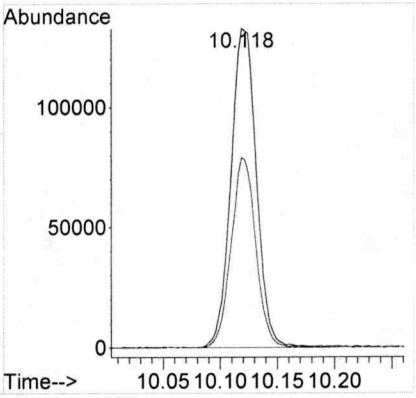


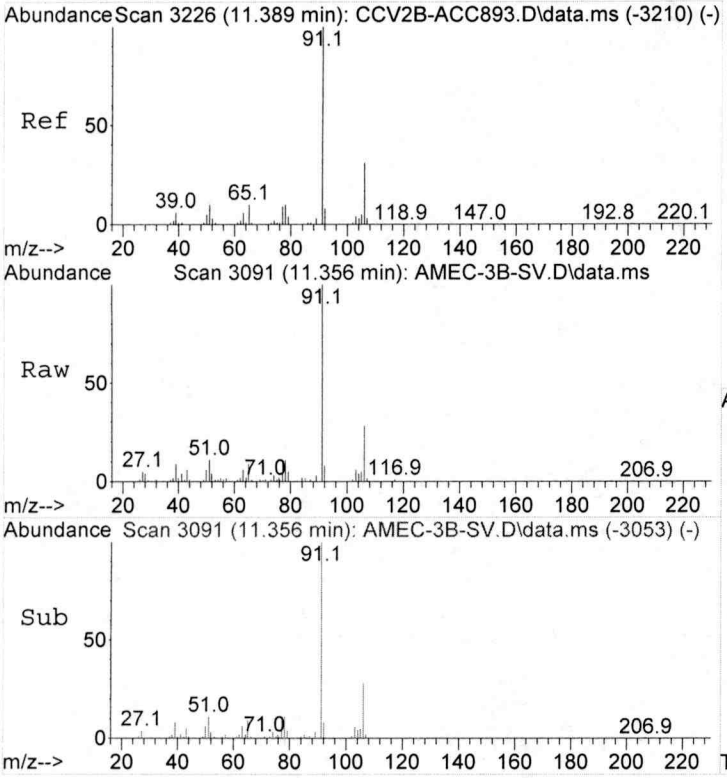


#56
Toluene
Concen: 15.623 ppbV
RT: 10.118 min Scan# 2647
Delta R.T. 0.001 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 91 Resp: 206380

Ion	Ratio	Lower	Upper
91	100		
92	57.3	28.5	88.5

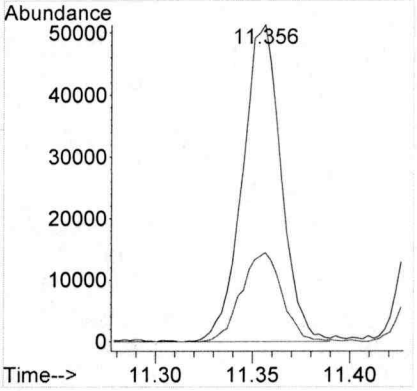


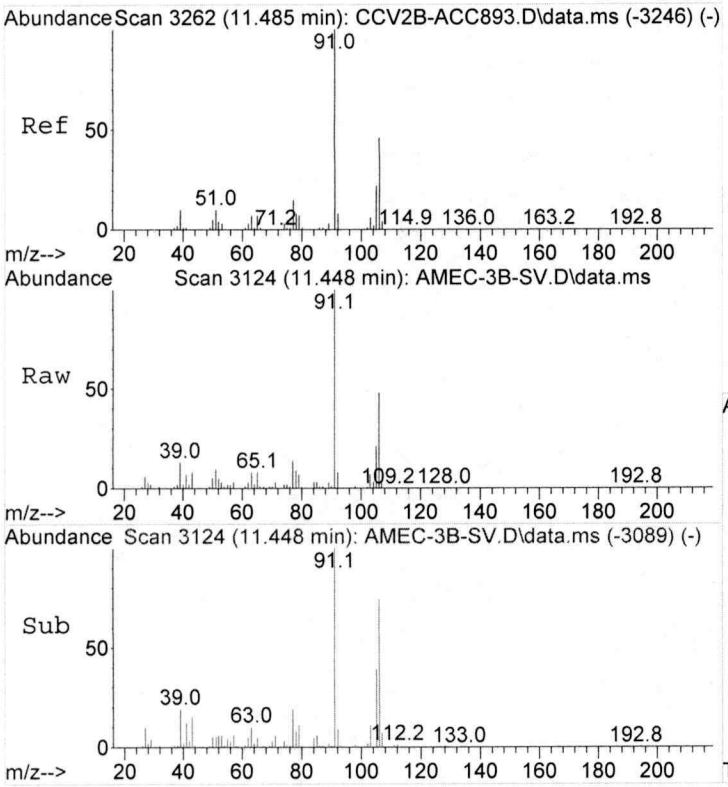


#65
Ethylbenzene
Concen: 4.389 ppbV
RT: 11.356 min Scan# 3091
Delta R.T. 0.005 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 91 Resp: 70928

Ion	Ratio	Lower	Upper
91	100		
106	29.6	0.0	59.5

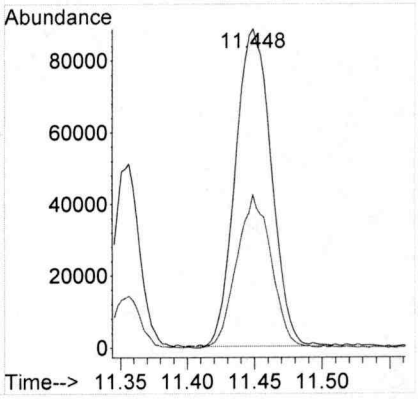


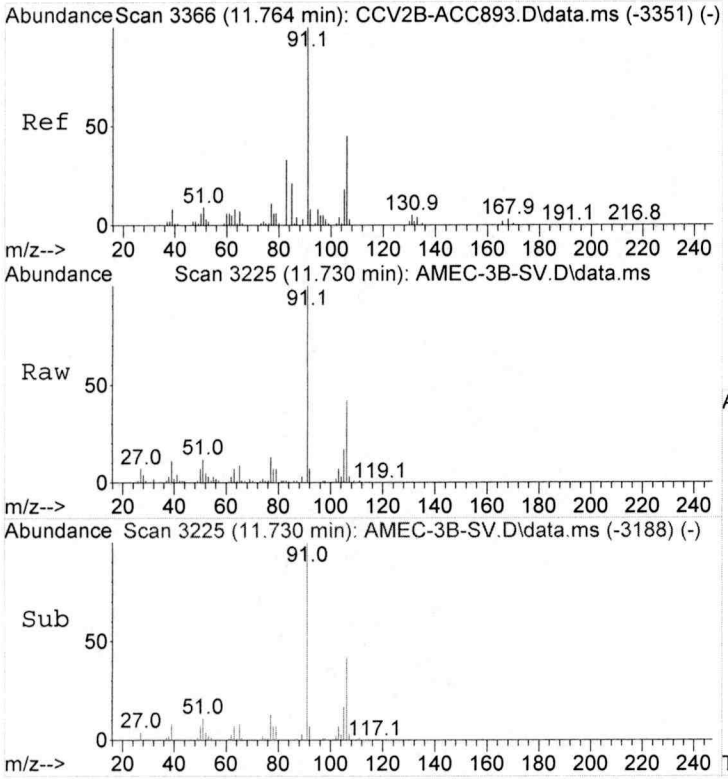


#66
m,p-Xylene
Concen: 10.920 ppbV
RT: 11.448 min Scan# 3124
Delta R.T. -0.002 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 91 Resp: 163247

Ion	Ratio	Lower	Upper
91	100		
106	46.3	16.6	76.6

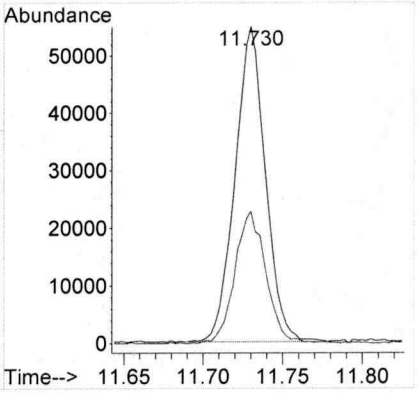


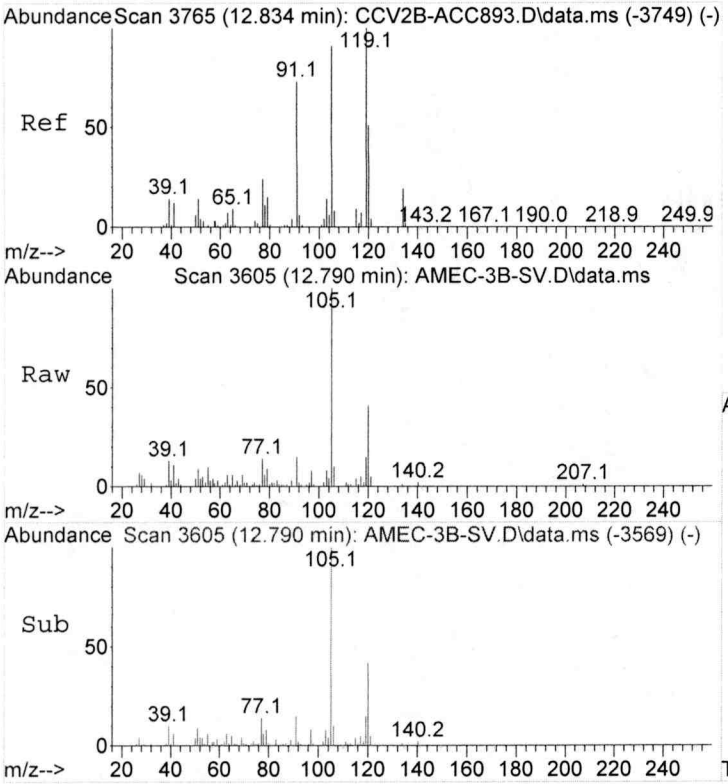


#70
o-Xylene
Concen: 4.452 ppbV
RT: 11.730 min Scan# 3225
Delta R.T. 0.003 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion: 91 Resp: 72707

Ion	Ratio	Lower	Upper
91	100		
106	42.6	13.1	73.1

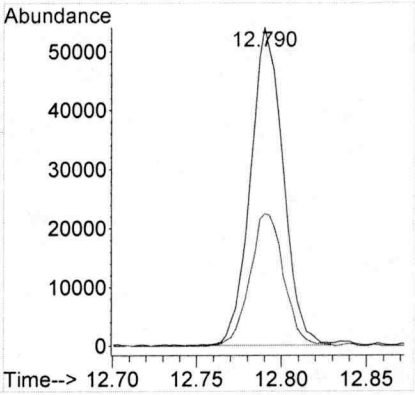




#81
1,2,4-Trimethylbenzene
Concen: 2.998 ppbV
RT: 12.790 min Scan# 3605
Delta R.T. 0.001 min
Lab File: AMEC-3B-SV.D
Acq: 20 Nov 2013 12:40 pm

Tgt Ion:105 Resp: 72207

Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.2	82.2



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-3G-SV.D
Acq On : 20 Nov 2013 1:16 pm
Operator : slc
Misc :
ALS Vial : 20 Sample Multiplier: 5

Quant Time: Jan 30 11:21:39 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-04 Inst : GCMS#12

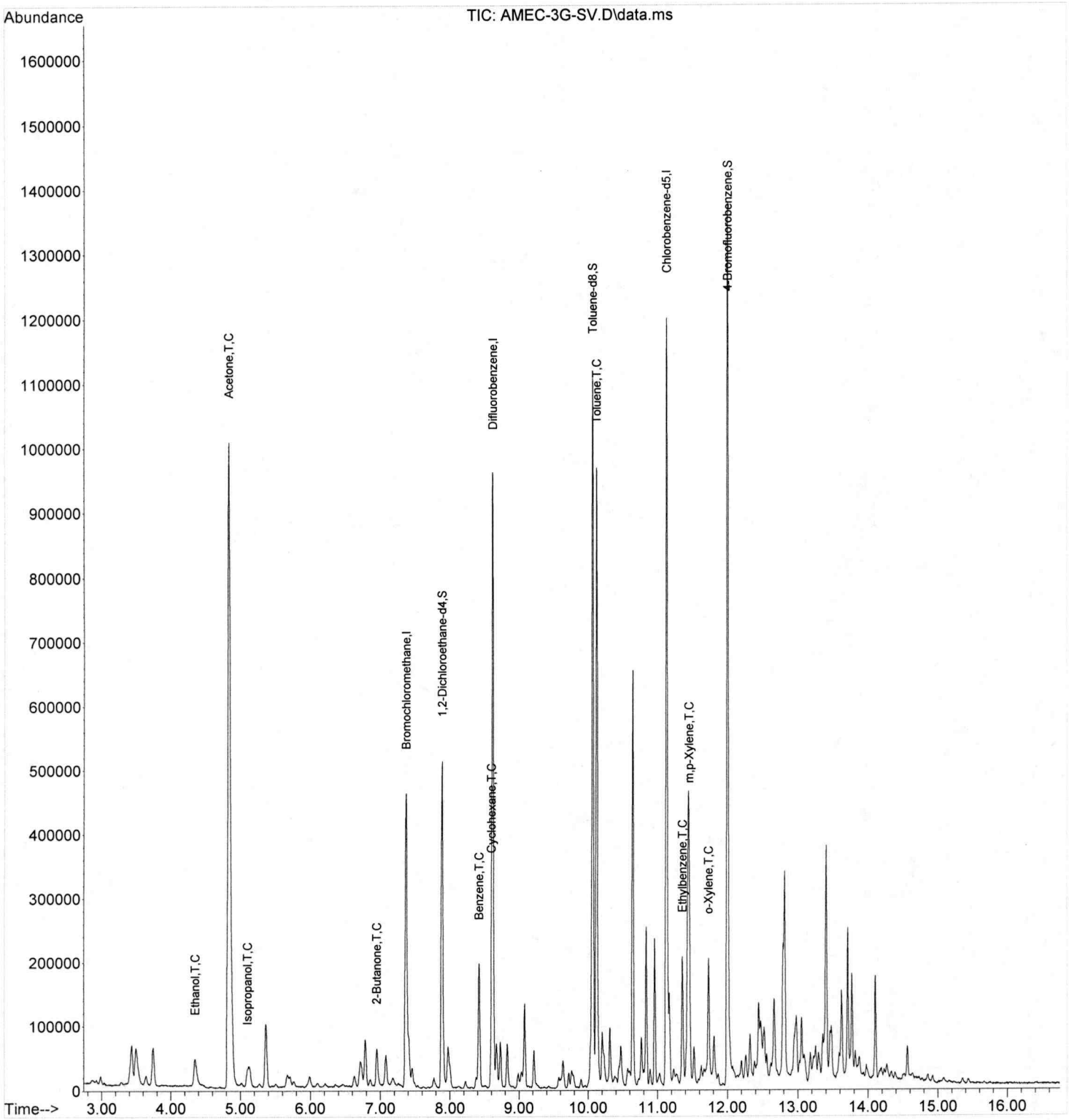
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.372	130	150182	50.00	ppbV	0.00
41) Difluorobenzene	8.618	114	570092	50.00	ppbV	0.00
63) Chlorobenzene-d5	11.128	82	301153	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.887	65	288487	52.35	ppbV	0.00
Spiked Amount 50.000			Recovery	=	104.70%	
55) Toluene-d8	10.063	98	553721	52.16	ppbV	0.00
Spiked Amount 50.000			Recovery	=	104.32%	
72) 4-Bromofluorobenzene	12.001	95	358536	49.22	ppbV	0.00
Spiked Amount 50.000			Recovery	=	98.44%	
Target Compounds						Qvalue
4) 1,1,-Difluoroethane	2.979	51	7720	3.049	ppbV	98
13) Ethanol	4.351	45	11713	9.720	ppbV	100
14) Acetone	4.831	43	1494049	232.461	ppbV	90
16) Isopropanol	5.102	45	32085	5.278	ppbV #	100
18) tert-Butanol	5.670	59	13891	1.608	ppbV #	90
19) Methylene chloride	5.710	49	6972	1.759	ppbV	95
21) Carbon Disulfide	5.986	76	21119	2.388	ppbV	99
25) Vinyl Acetate	6.733	86	2674	4.589	ppbV #	89
26) 2-Butanone	6.950	43	53254	7.686	ppbV	95
30) Hexane	7.411	57	13991	3.978	ppbV	90
31) Chloroform	7.458	83	17433	2.148	ppbV	96
39) Benzene	8.423	78	132851	16.930	ppbV	99
42) Cyclohexane	8.599	84	20983	5.652	ppbV #	81
49) 2,2,4 Trimethylpentane	9.081	57	54766	4.346	ppbV #	93
50) Heptane	9.215	71	5899	2.483	ppbV	91
52) 4-Methyl-2-Pentanone	9.575	43	7777	1.200	ppbV	93
56) Toluene	10.121	91	509214	37.563	ppbV	100
61) Tetrachloroethene	10.768	166	17170	2.158	ppbV	97
65) Ethylbenzene	11.357	91	99326	6.023	ppbV	99
66) m,p-Xylene	11.451	91	228544	14.980	ppbV	99
70) o-Xylene	11.730	91	84809	5.088	ppbV	99
81) 1,2,4-Trimethylbenzene	12.790	105	70439	2.866	ppbV	88

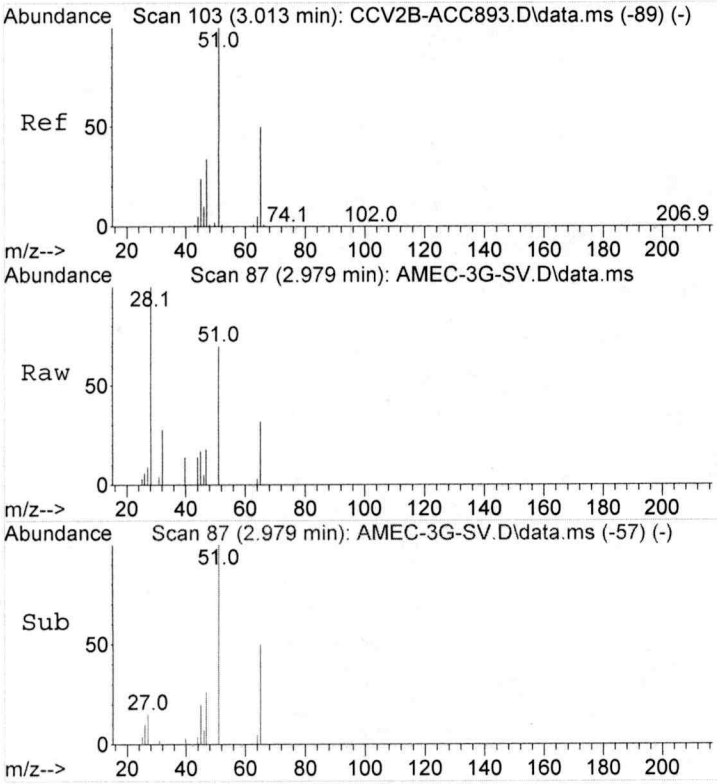
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-3G-SV.D
Acq On : 20 Nov 2013 1:16 pm
Operator : slc
Misc :
ALS Vial : 20 Sample Multiplier: 5

Quant Time: Jan 30 11:21:39 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-04 Inst : GCMS#12

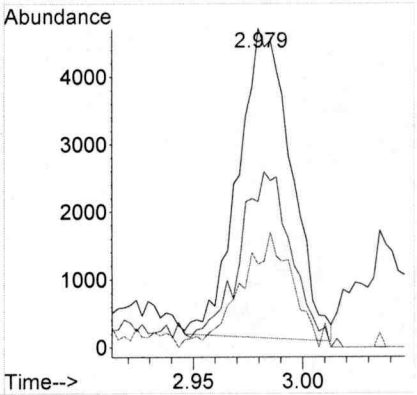


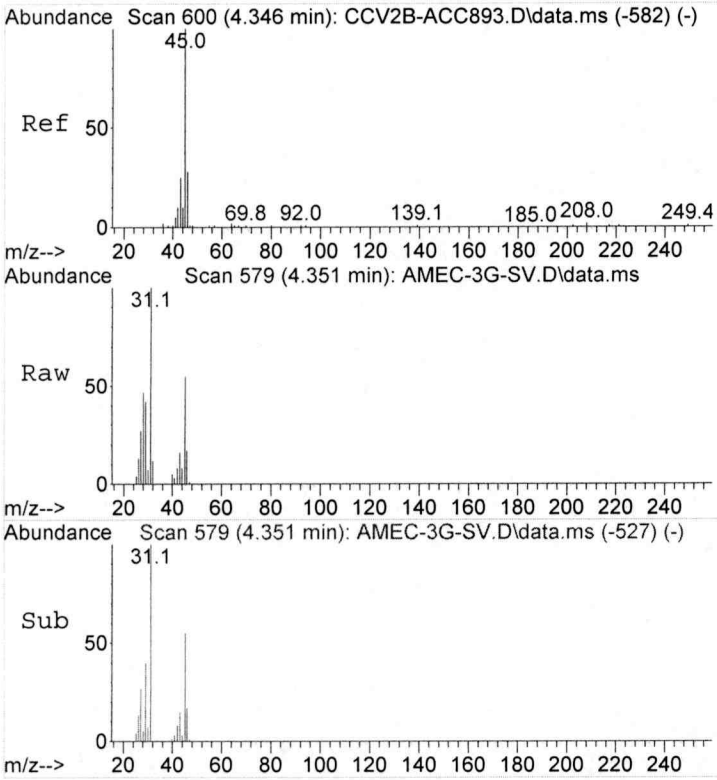


#4
1,1,-Difluoroethane
Concen: 3.049 ppbV
RT: 2.979 min Scan# 87
Delta R.T. -0.015 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 51 Resp: 7720

Ion	Ratio	Lower	Upper
51	100		
65	57.3	25.3	85.3
47	35.3	4.4	64.4

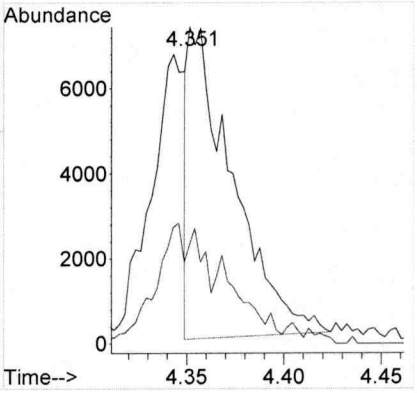


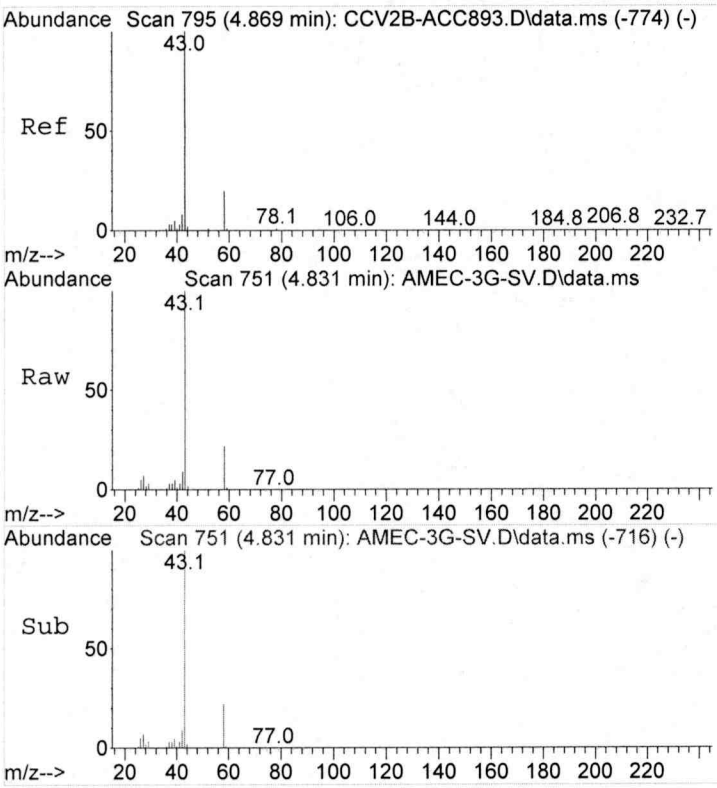


#13
Ethanol
Concen: 9.720 ppbV
RT: 4.351 min Scan# 579
Delta R.T. 0.045 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 45 Resp: 11713

Ion	Ratio	Lower	Upper
45	100		
46	13.1	0.0	30.0

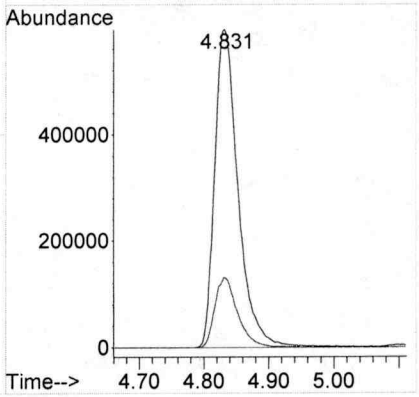


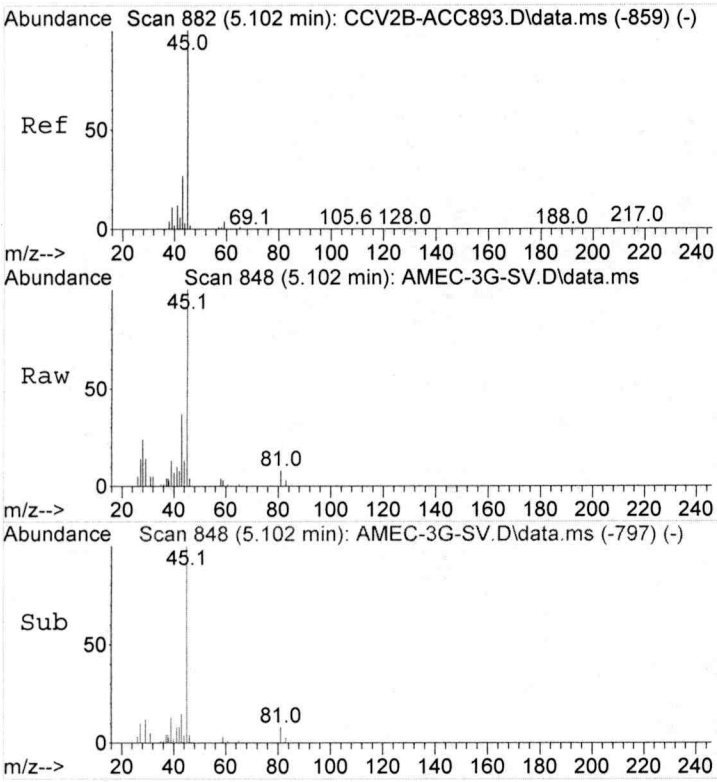


#14
Acetone
Concen: 232.461 ppbV
RT: 4.831 min Scan# 751
Delta R.T. -0.003 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 43 Resp: 1494049

Ion	Ratio	Lower	Upper
43	100		
58	21.6	0.0	47.3

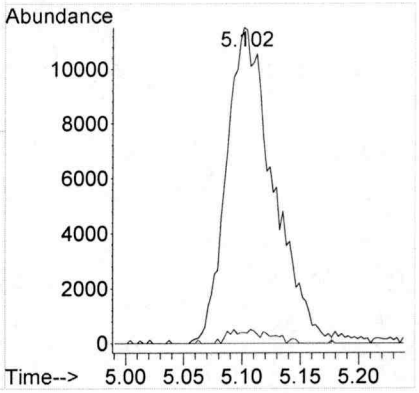


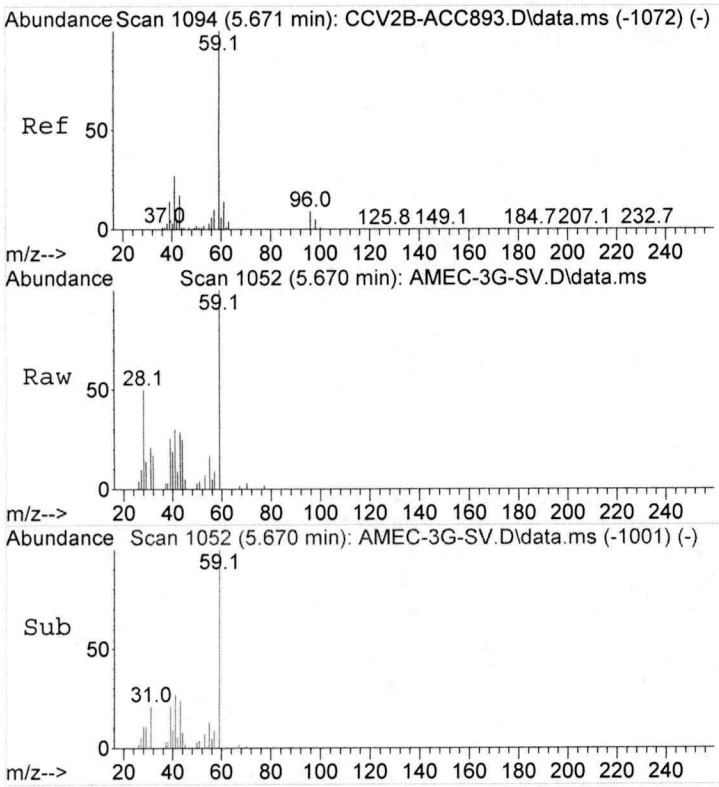


#16
Isopropanol
Concen: 5.278 ppbV
RT: 5.102 min Scan# 848
Delta R.T. 0.042 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 45 Resp: 32085

Ion	Ratio	Lower	Upper
45	100		
59	0.0	0.0	30.0

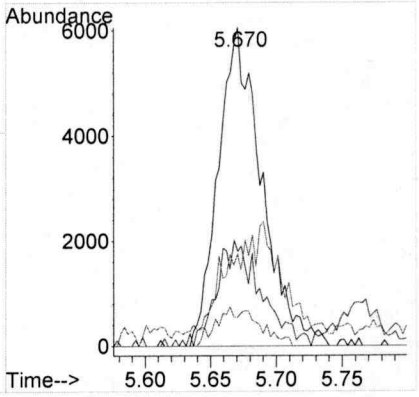


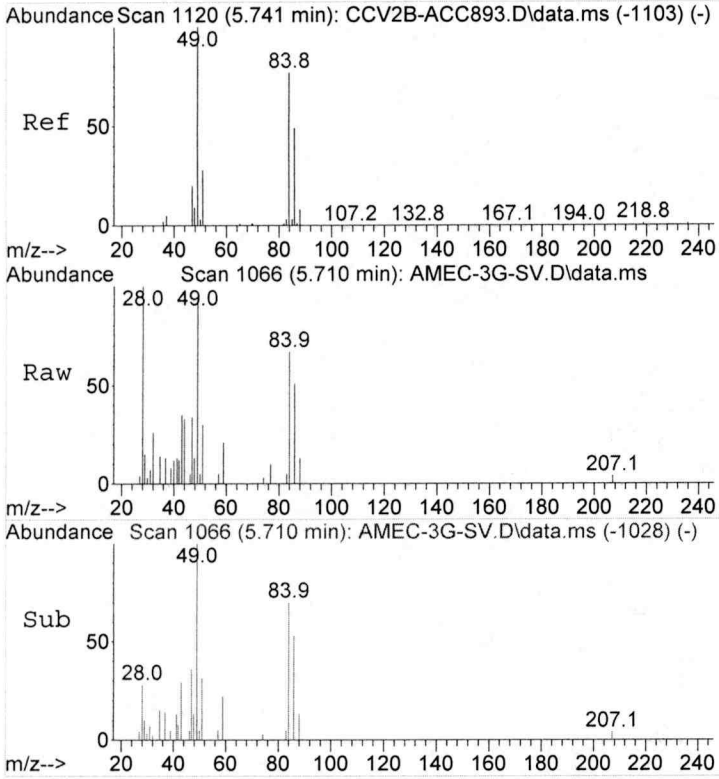


#18
tert-Butanol
Concen: 1.608 ppbV
RT: 5.670 min Scan# 1052
Delta R.T. 0.042 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 59 Resp: 13891

Ion	Ratio	Lower	Upper
59	100		
41	22.2	0.0	57.7
43	0.0	0.0	35.5
57	5.9	0.0	37.6

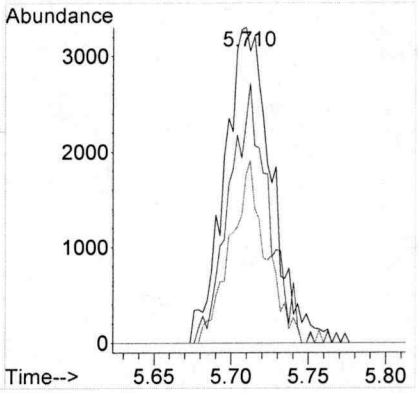


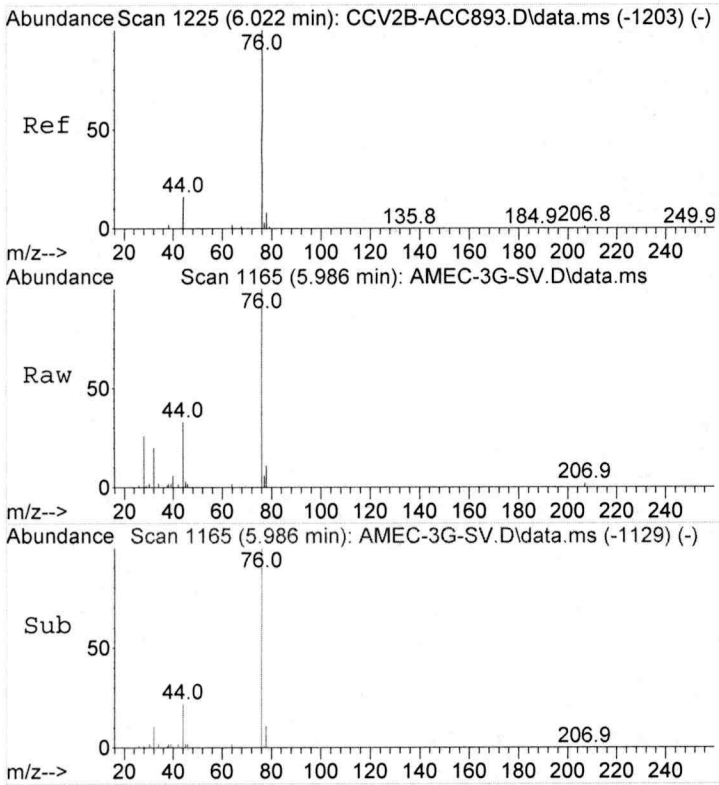


#19
Methylene chloride
Concen: 1.759 ppbV
RT: 5.710 min Scan# 1066
Delta R.T. 0.007 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 49 Resp: 6972

Ion	Ratio	Lower	Upper
49	100		
84	68.0	42.1	102.1
86	43.9	17.3	77.3

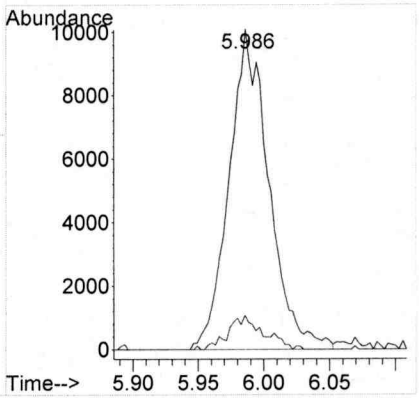


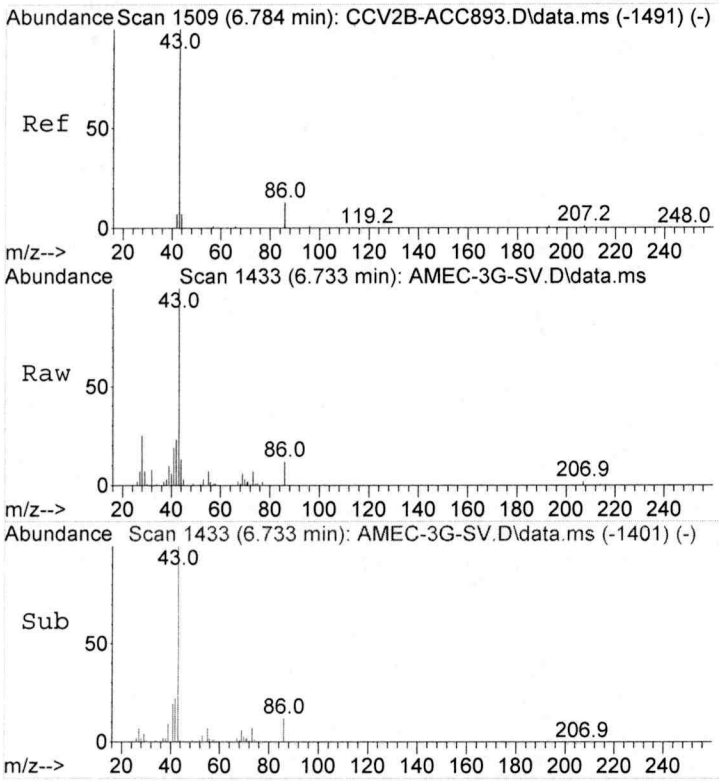


#21
Carbon Disulfide
Concen: 2.388 ppbV
RT: 5.986 min Scan# 1165
Delta R.T. 0.001 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 76 Resp: 21119

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	39.5

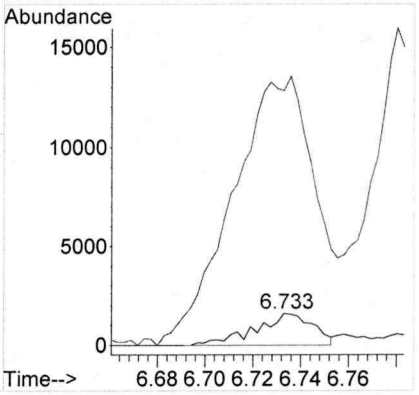


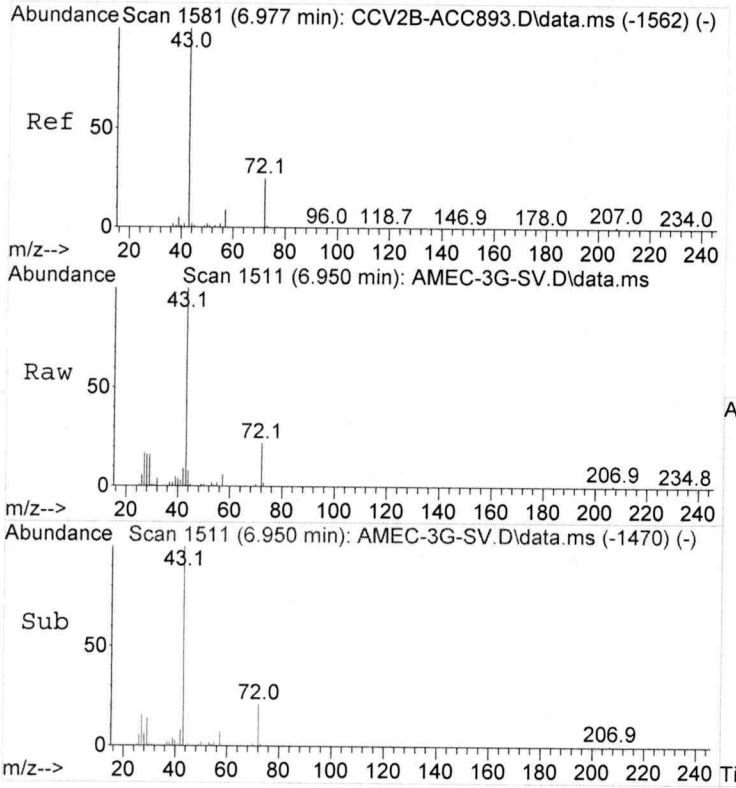


#25
Vinyl Acetate
Concen: 4.589 ppbV
RT: 6.733 min Scan# 1433
Delta R.T. -0.011 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 86 Resp: 2674

Ion	Ratio	Lower	Upper
86	100		
43	1248.7	1163.6	1223.6#

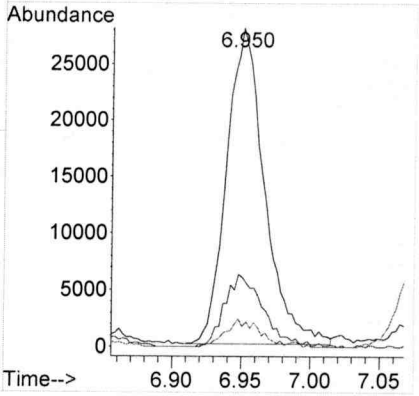


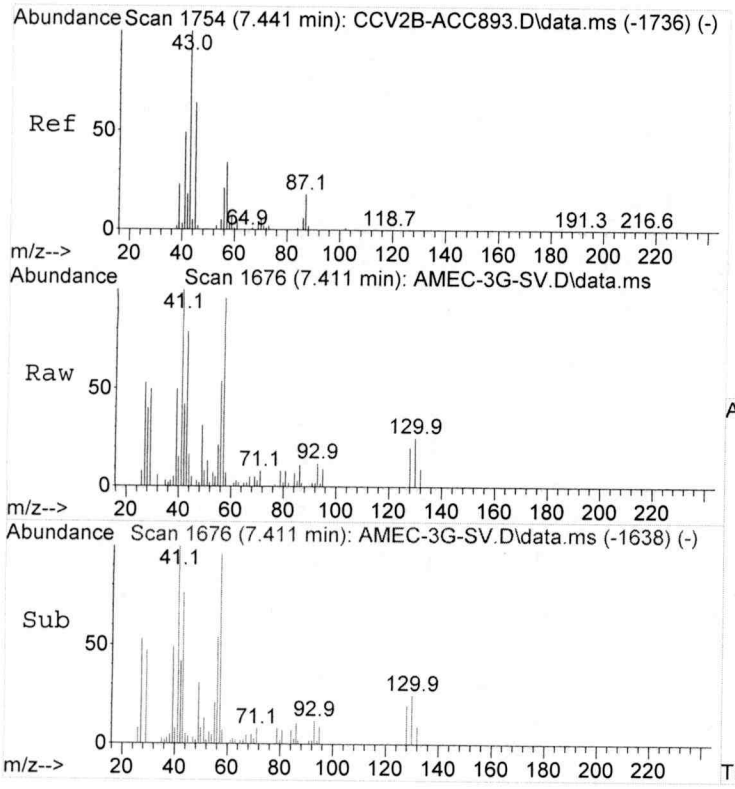


#26
2-Butanone
Concen: 7.686 ppbV
RT: 6.950 min Scan# 1511
Delta R.T. 0.014 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 43 Resp: 53254

Ion	Ratio	Lower	Upper
43	100		
72	23.2	0.0	51.3
57	7.7	0.0	32.0

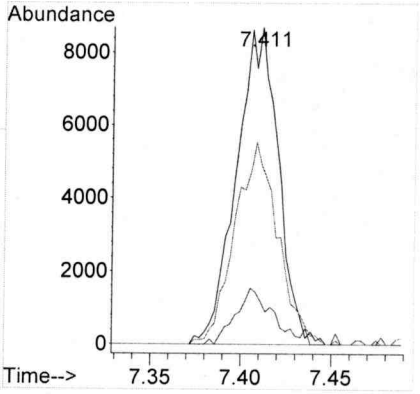


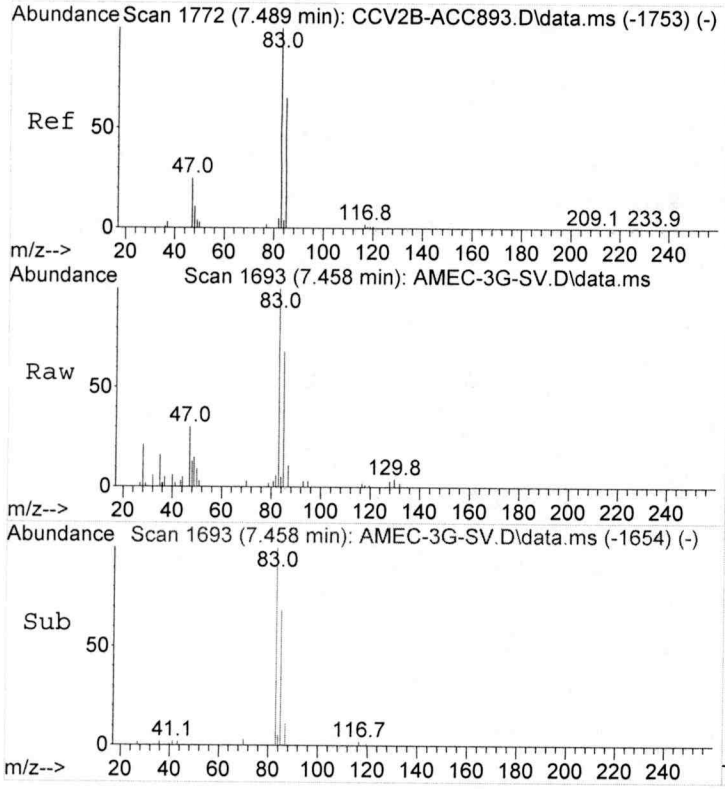


#30
Hexane
Concen: 3.978 ppbV
RT: 7.411 min Scan# 1676
Delta R.T. 0.007 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 57 Resp: 13991

Ion	Ratio	Lower	Upper
57	100		
86	16.0	0.0	47.3
56	65.3	26.1	86.1

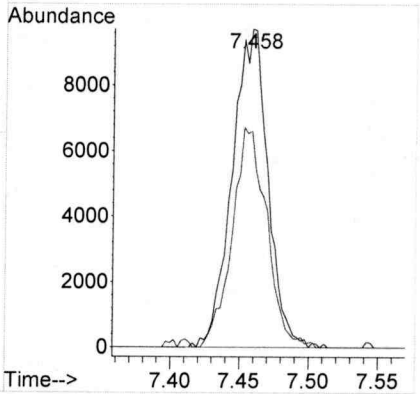


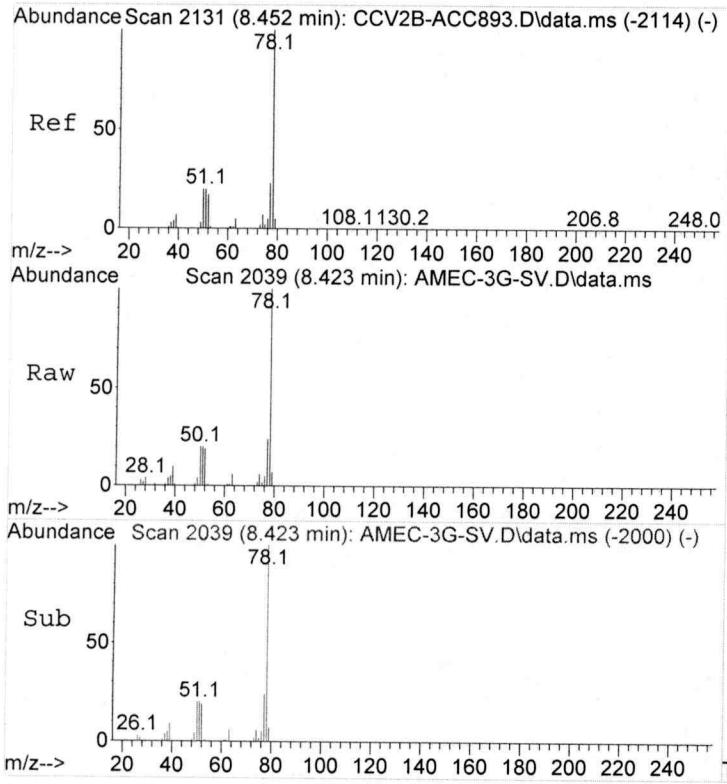


#31
Chloroform
Concen: 2.148 ppbV
RT: 7.458 min Scan# 1693
Delta R.T. 0.009 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 83 Resp: 17433

Ion	Ratio	Lower	Upper
83	100		
85	66.8	33.9	93.9

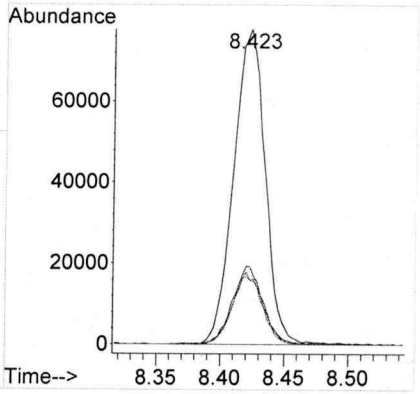


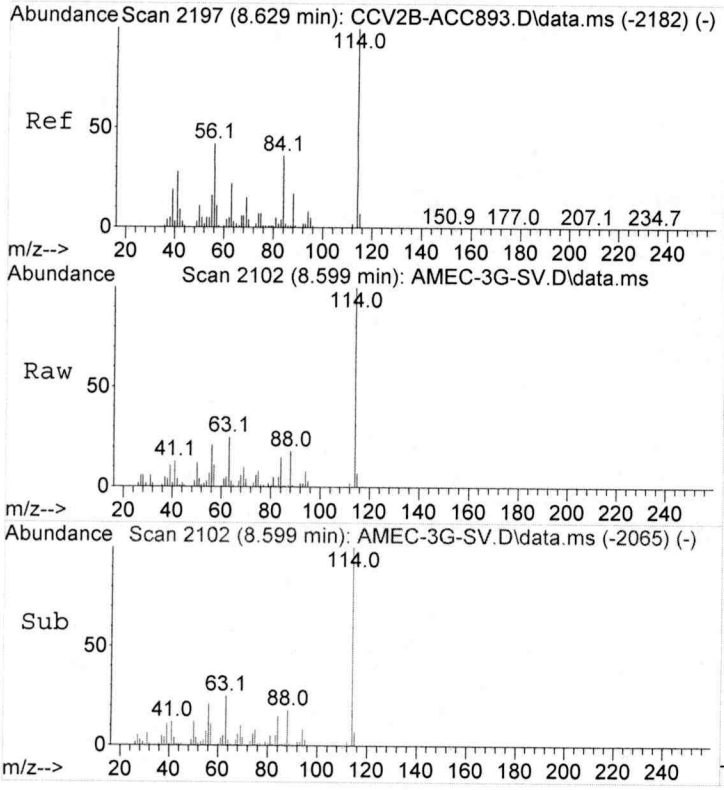


#39
Benzene
Concen: 16.930 ppbV
RT: 8.423 min Scan# 2039
Delta R.T. 0.008 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 78 Resp: 132851

Ion	Ratio	Lower	Upper
78	100		
77	24.0	0.0	54.2
50	21.4	0.0	50.5
51	21.6	0.0	51.1

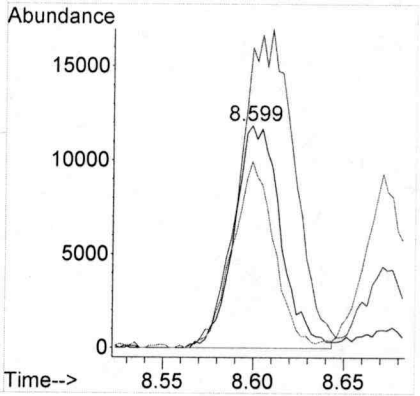


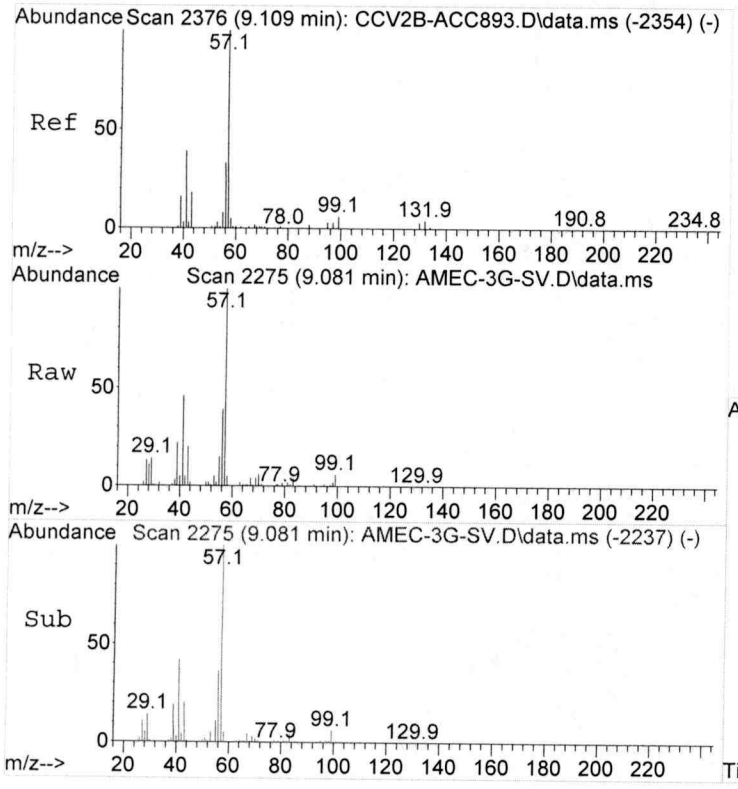


#42
Cyclohexane
Concen: 5.652 ppbV
RT: 8.599 min Scan# 2102
Delta R.T. 0.005 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 84 Resp: 20983

Ion	Ratio	Lower	Upper
84	100		
56	169.0	107.0	167.0#
41	76.0	43.0	103.0

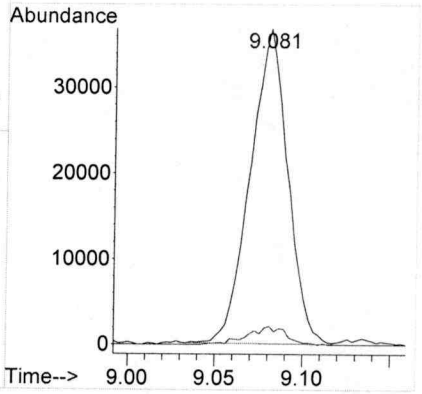


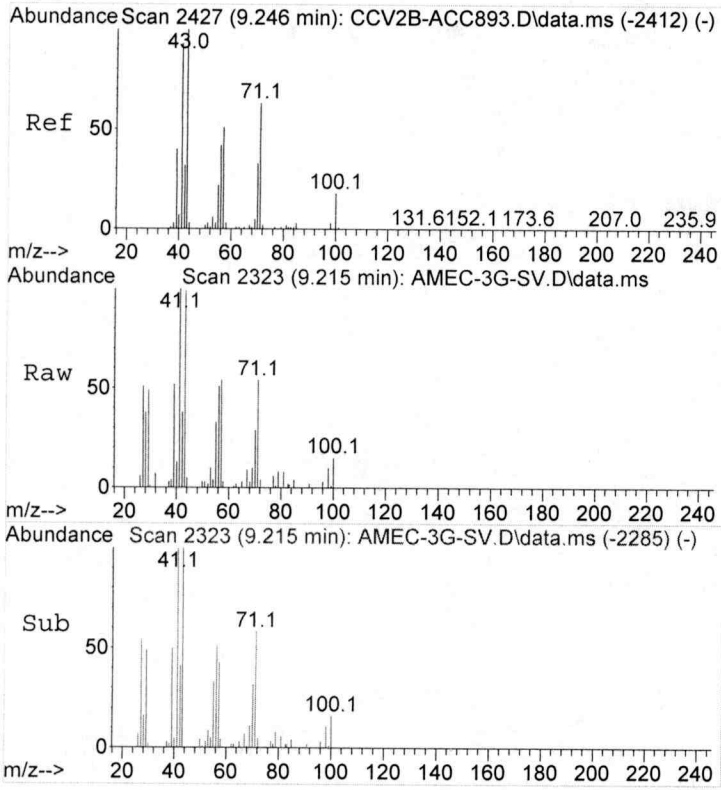


#49
2,2,4 Trimethylpentane
Concen: 4.346 ppbV
RT: 9.081 min Scan# 2275
Delta R.T. 0.007 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 57 Resp: 54766

Ion	Ratio	Lower	Upper
57	100		
99	6.0	7.0	10.4#

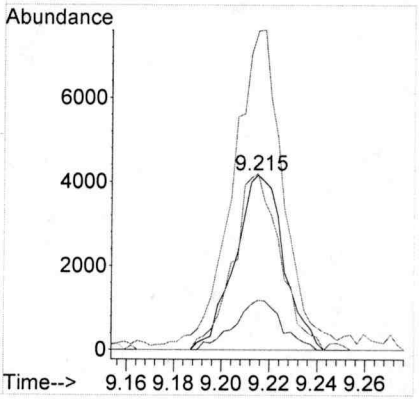


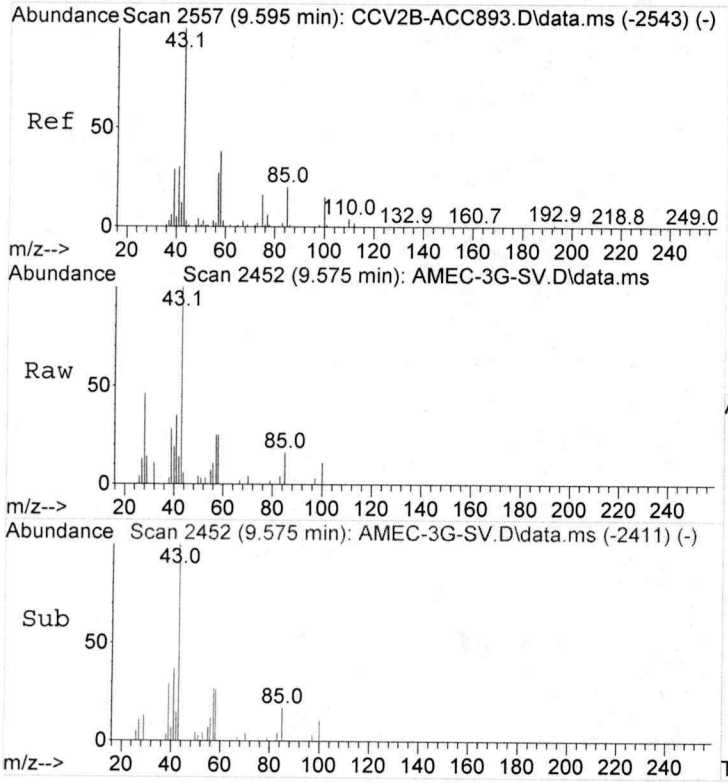


#50
Heptane
Concen: 2.483 ppbV
RT: 9.215 min Scan# 2323
Delta R.T. 0.006 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 71 Resp: 5899

Ion	Ratio	Lower	Upper
71	100		
100	27.8	1.2	61.2
57	96.3	61.4	121.4
43	185.4	139.4	199.4

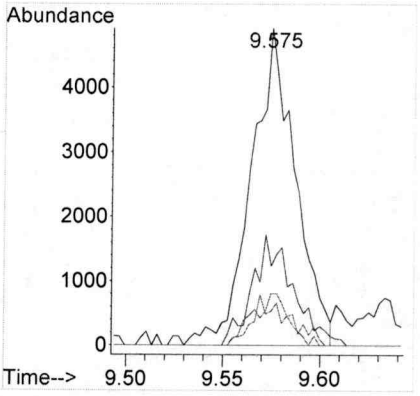


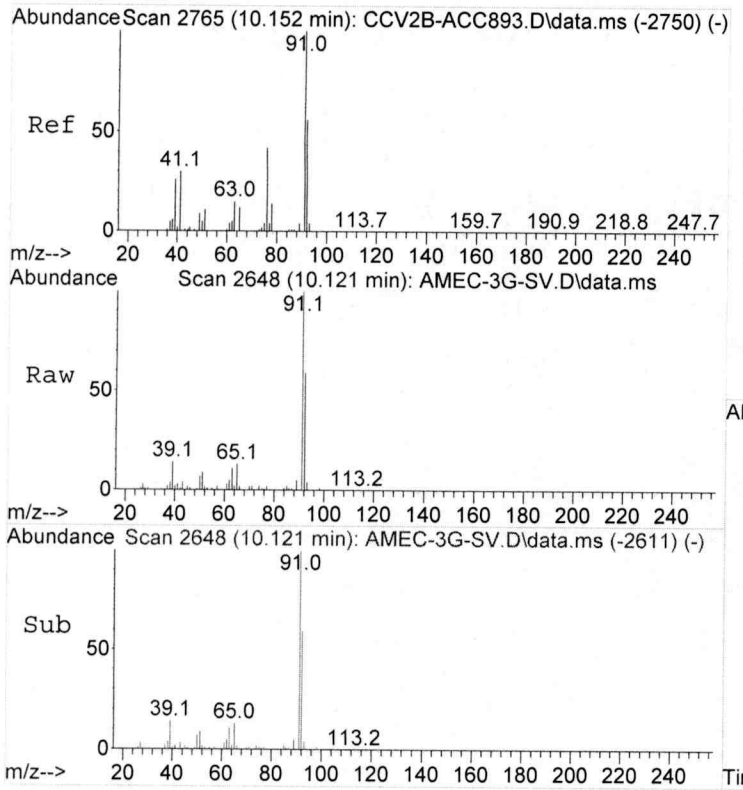


#52
4-Methyl-2-Pentanone
Concen: 1.200 ppbV
RT: 9.575 min Scan# 2452
Delta R.T. 0.015 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 43 Resp: 7777

Ion	Ratio	Lower	Upper
43	100		
58	32.0	5.8	65.8
85	15.0	0.0	47.9
100	11.2	0.0	44.7

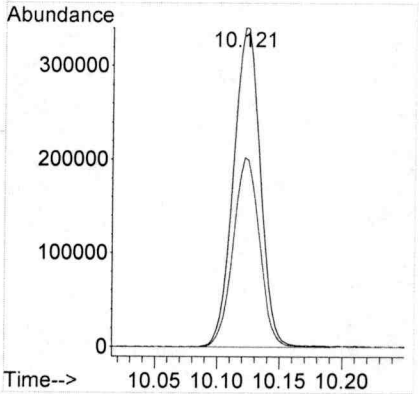


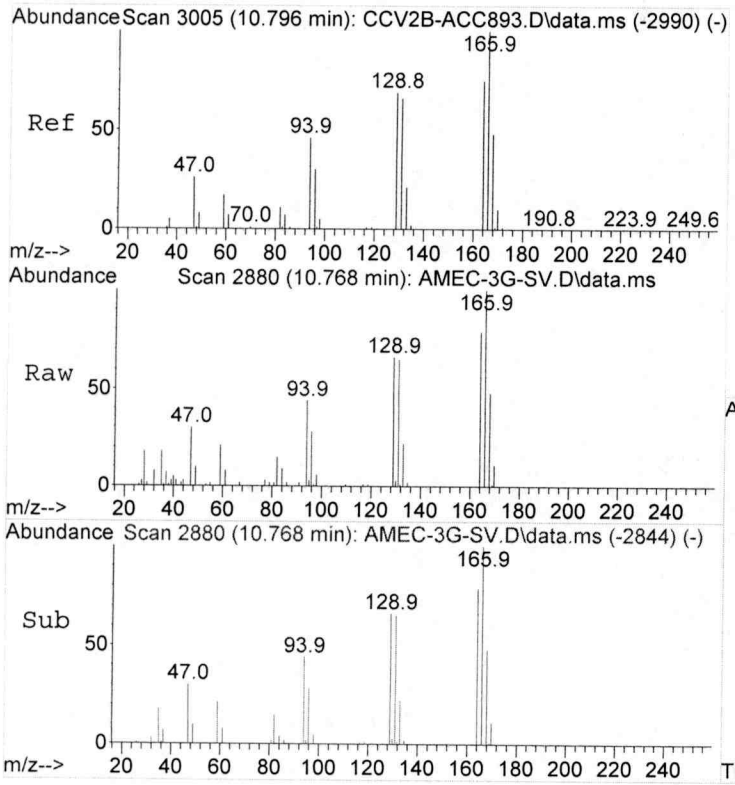


#56
Toluene
Concen: 37.563 ppbV
RT: 10.121 min Scan# 2648
Delta R.T. 0.003 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 91 Resp: 509214

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.5	88.5

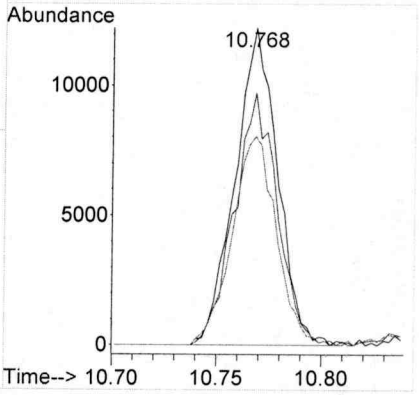


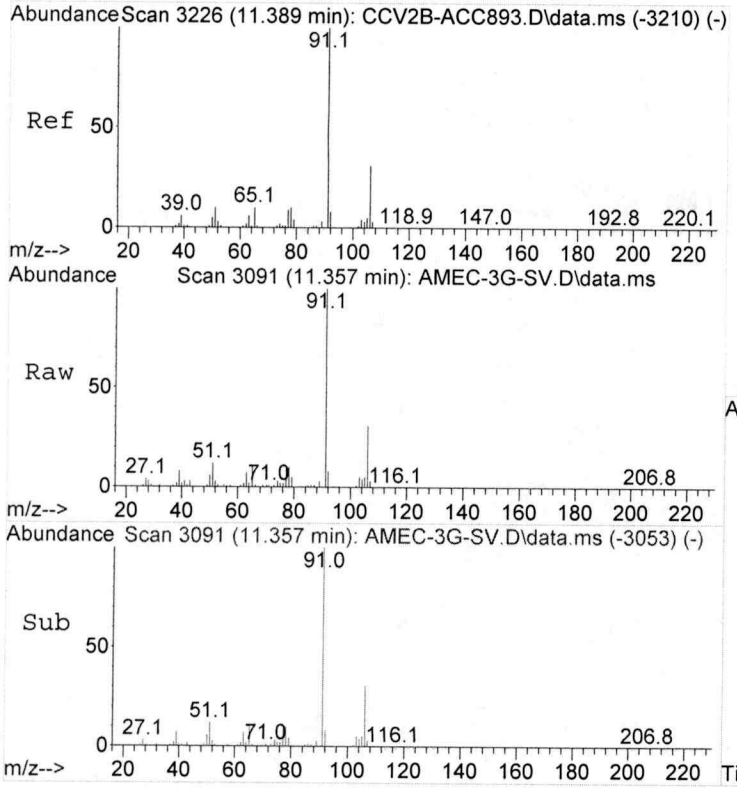


#61
Tetrachloroethene
Concen: 2.158 ppbV
RT: 10.768 min Scan# 2880
Delta R.T. 0.001 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion:166 Resp: 17170

Ion	Ratio	Lower	Upper
166	100		
164	80.5	47.1	107.1
131	68.7	37.3	97.3

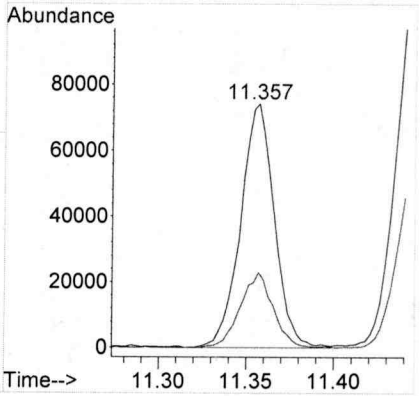


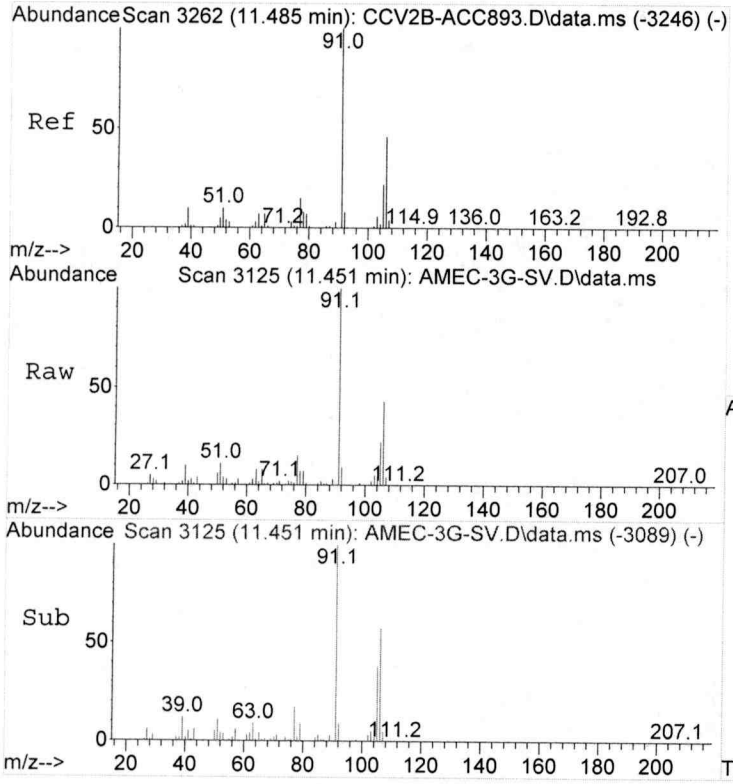


#65
Ethylbenzene
Concen: 6.023 ppbV
RT: 11.357 min Scan# 3091
Delta R.T. 0.005 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 91 Resp: 99326

Ion	Ratio	Lower	Upper
91	100		
106	29.8	0.0	59.5

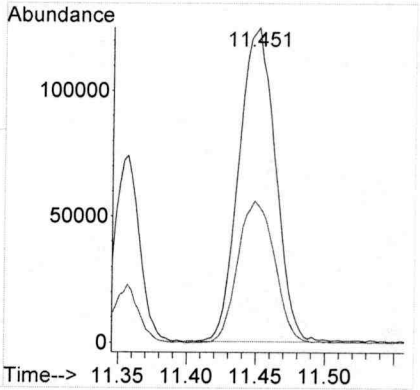


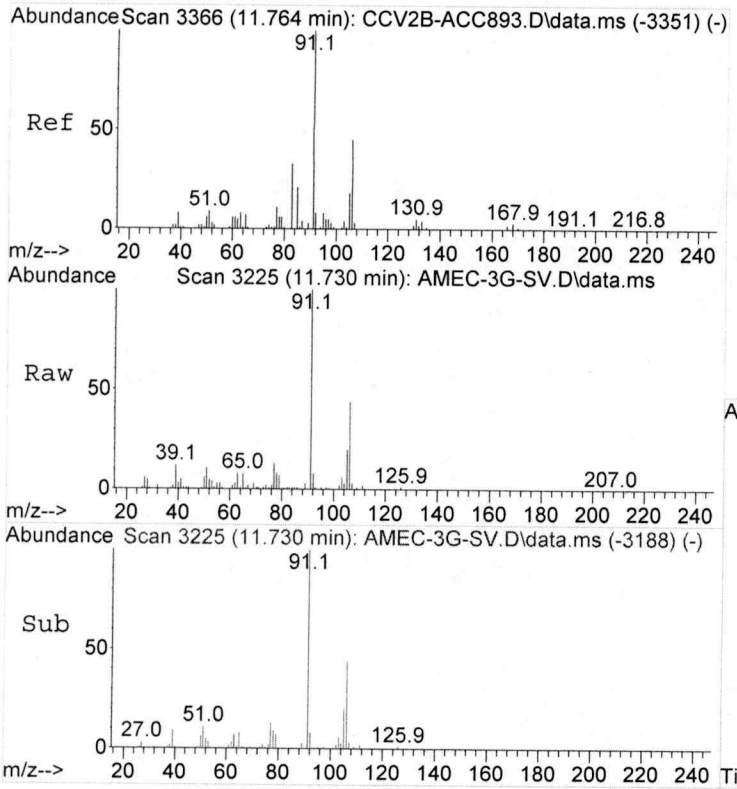


#66
m,p-Xylene
Concen: 14.980 ppbV
RT: 11.451 min Scan# 3125
Delta R.T. 0.001 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 91 Resp: 228544

Ion	Ratio	Lower	Upper
91	100		
106	45.7	16.6	76.6

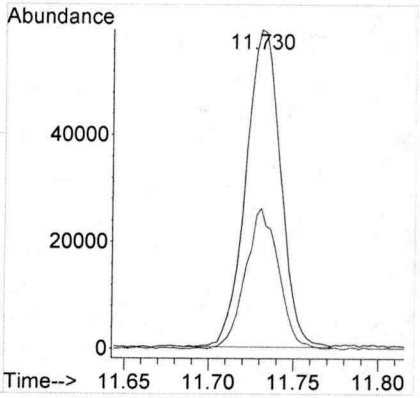


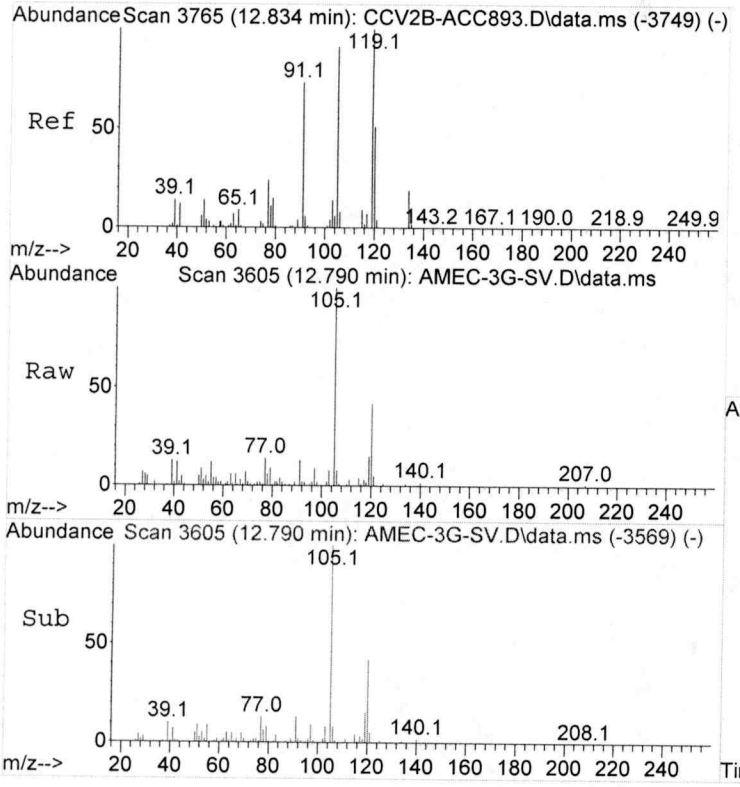


#70
o-Xylene
Concen: 5.088 ppbV
RT: 11.730 min Scan# 3225
Delta R.T. 0.003 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion: 91 Resp: 84809

Ion	Ratio	Lower	Upper
91	100		
106	42.4	13.1	73.1

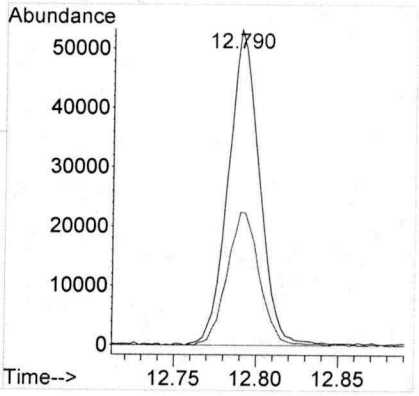




#81
1,2,4-Trimethylbenzene
Concen: 2.866 ppbV
RT: 12.790 min Scan# 3605
Delta R.T. 0.001 min
Lab File: AMEC-3G-SV.D
Acq: 20 Nov 2013 1:16 pm

Tgt Ion:105 Resp: 70439

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.2	82.2



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10L-SV.D
Acq On : 20 Nov 2013 2:14 pm
Operator : slc
Misc :
ALS Vial : 21 Sample Multiplier: 5

Quant Time: Jan 30 11:23:11 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-05 Inst : GCMS#12

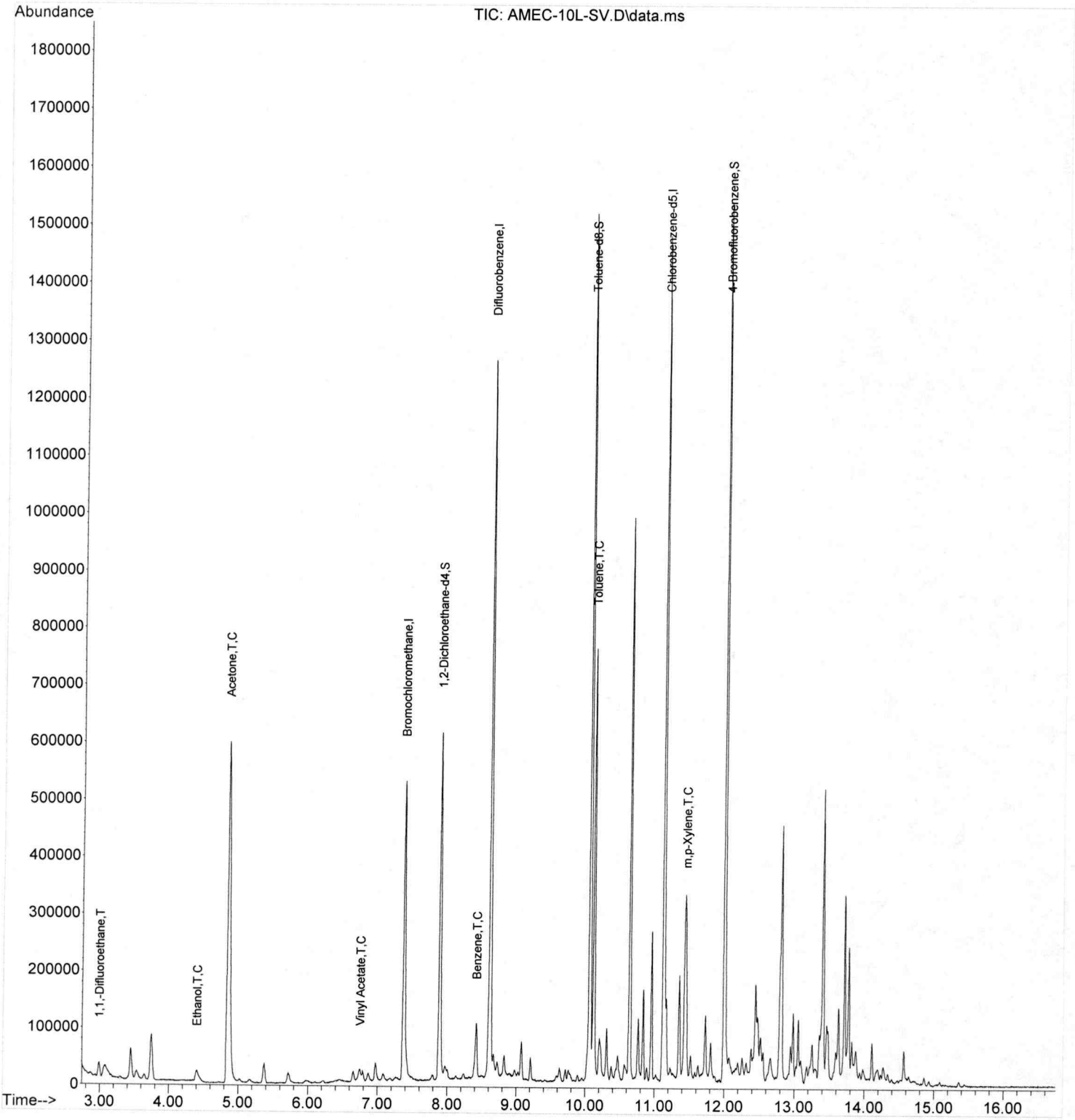
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.372	130	180740	50.00	ppbV	0.00
41) Difluorobenzene	8.612	114	860199	50.00	ppbV	0.00
63) Chlorobenzene-d5	11.125	82	370869	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.887	65	350383	52.84	ppbV	0.00
Spiked Amount 50.000			Recovery	=	105.68%	
55) Toluene-d8	10.060	98	777593	48.55	ppbV	0.00
Spiked Amount 50.000			Recovery	=	97.10%	
72) 4-Bromofluorobenzene	11.998	95	391568	43.65	ppbV	0.00
Spiked Amount 50.000			Recovery	=	87.30%	
Target Compounds						Qvalue
4) 1,1,-Difluoroethane	2.988	51	21426	7.032	ppbV	98
13) Ethanol	4.402	45	8862	6.111	ppbV	100
14) Acetone	4.842	43	965104	124.774	ppbV	91
18) tert-Butanol	5.715	59	11577	1.113	ppbV #	61
25) Vinyl Acetate	6.747	86	3582	5.108	ppbV #	37
26) 2-Butanone	6.970	43	30560	3.665	ppbV	95
30) Hexane	7.408	57	6200	1.465	ppbV	94
39) Benzene	8.420	78	67663	7.165	ppbV	95
42) Cyclohexane	8.596	84	25050	4.472	ppbV	82
49) 2,2,4 Trimethylpentane	9.073	57	33029	1.737	ppbV #	91
50) Heptane	9.206	71	4813	1.343	ppbV	94
56) Toluene	10.118	91	409446	20.017	ppbV	100
61) Tetrachloroethene	10.763	166	27095	2.257	ppbV	98
65) Ethylbenzene	11.354	91	95303	4.693	ppbV	99
66) m,p-Xylene	11.446	91	147533	7.852	ppbV	98
70) o-Xylene	11.730	91	48510	2.363	ppbV	95
81) 1,2,4-Trimethylbenzene	12.790	105	69954	2.311	ppbV	86

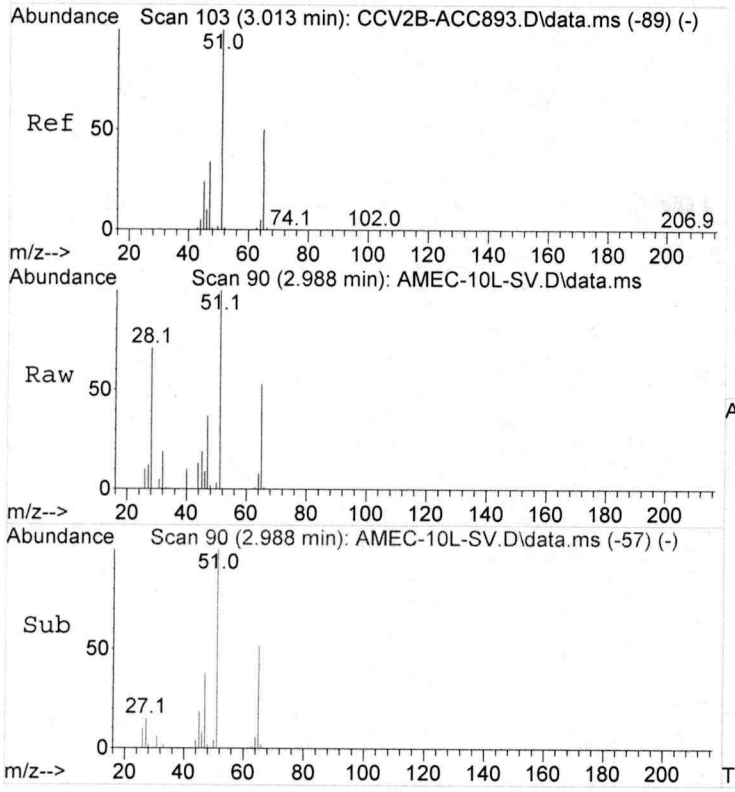
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10L-SV.D
Acq On : 20 Nov 2013 2:14 pm
Operator : slc
Misc :
ALS Vial : 21 Sample Multiplier: 5

Quant Time: Jan 30 11:23:11 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-05 Inst : GCMS#12

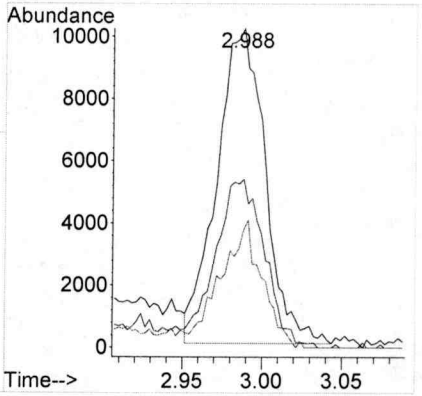


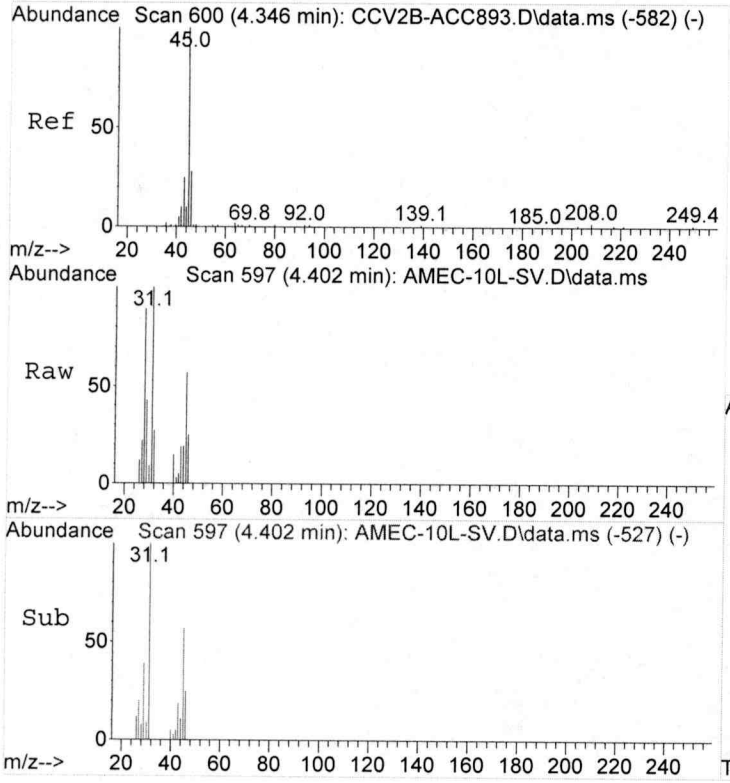


#4
1,1,-Difluoroethane
Concen: 7.032 ppbV
RT: 2.988 min Scan# 90
Delta R.T. -0.007 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 51 Resp: 21426

Ion	Ratio	Lower	Upper
51	100		
65	57.1	25.3	85.3
47	34.5	4.4	64.4

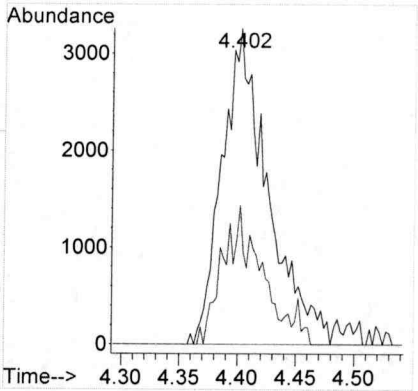


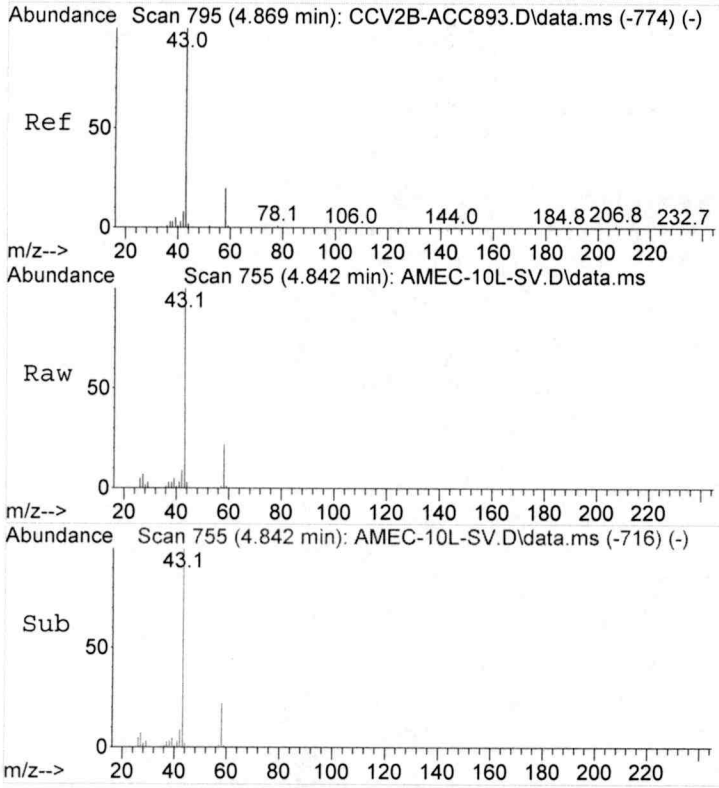


#13
Ethanol
Concen: 6.111 ppbV
RT: 4.402 min Scan# 597
Delta R.T. 0.096 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 45 Resp: 8862

Ion	Ratio	Lower	Upper
45	100		
46	20.3	0.0	30.0

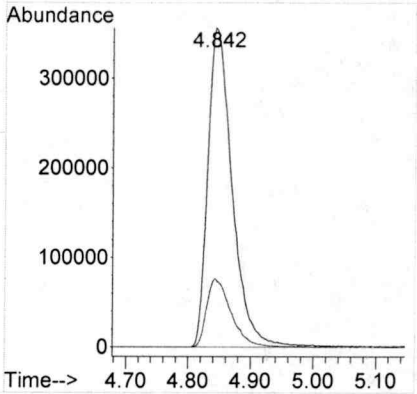


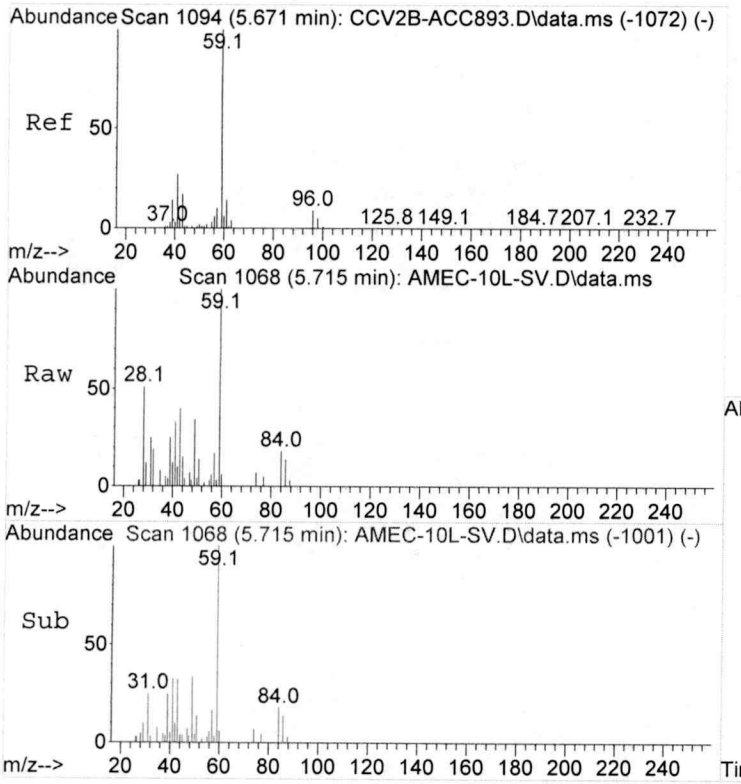


#14
Acetone
Concen: 124.774 ppbV
RT: 4.842 min Scan# 755
Delta R.T. 0.008 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 43 Resp: 965104

Ion	Ratio	Lower	Upper
43	100		
58	21.4	0.0	47.3

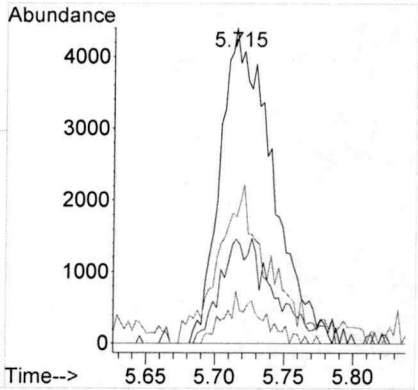


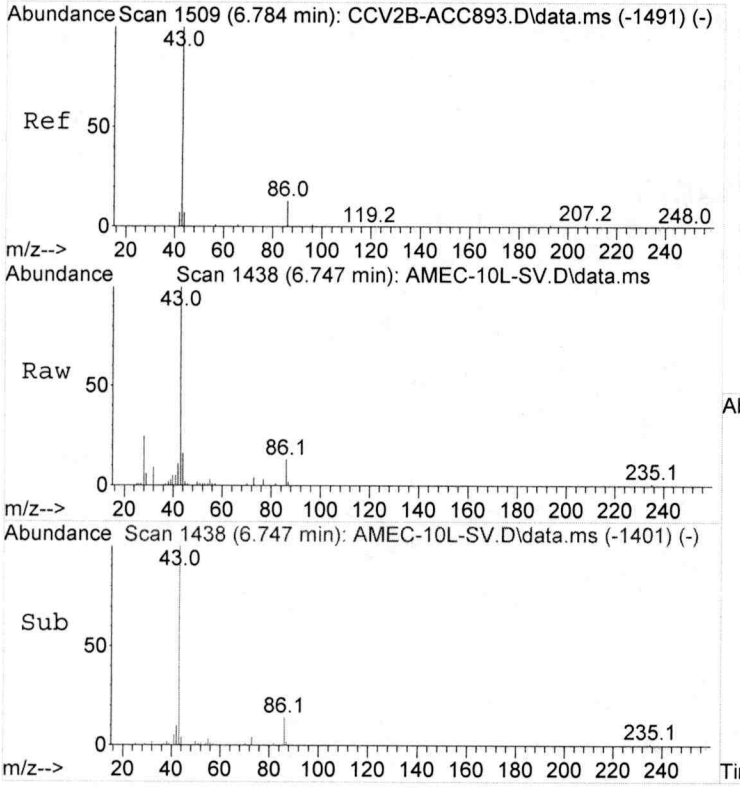


#18
tert-Butanol
Concen: 1.113 ppbV
RT: 5.715 min Scan# 1068
Delta R.T. 0.087 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 59 Resp: 11577

Ion	Ratio	Lower	Upper
59	100		
41	0.0	0.0	57.7
43	0.0	0.0	35.5
57	5.6	0.0	37.6

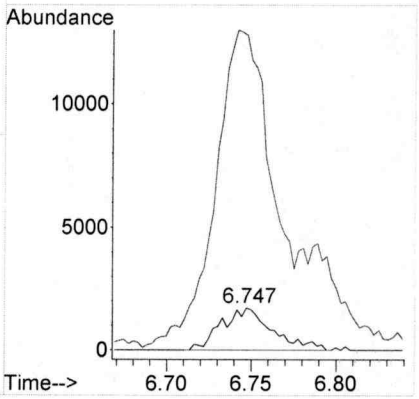


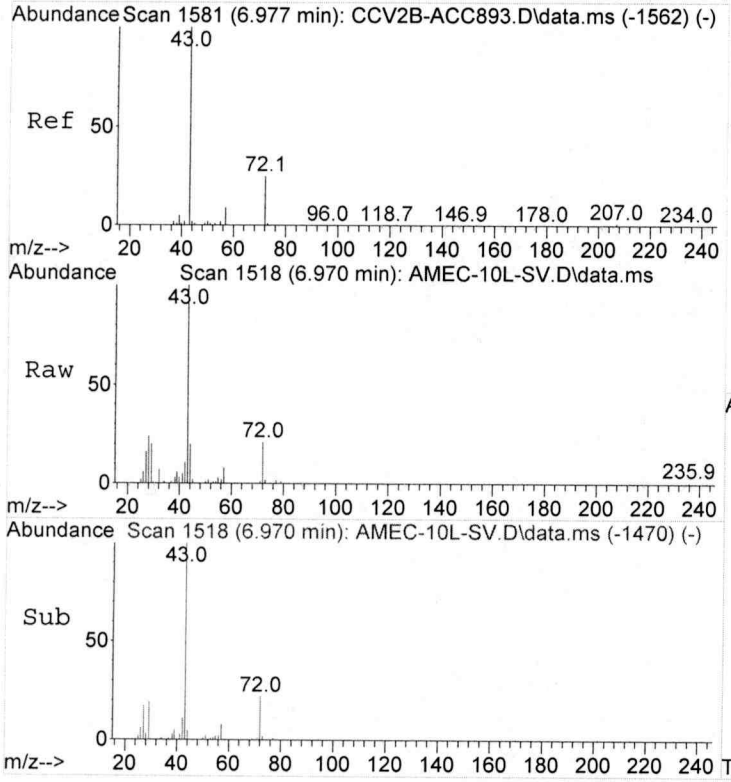


#25
Vinyl Acetate
Concen: 5.108 ppbV
RT: 6.747 min Scan# 1438
Delta R.T. 0.003 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 86 Resp: 3582

Ion	Ratio	Lower	Upper
86	100		
43	874.0	1163.6	1223.6#

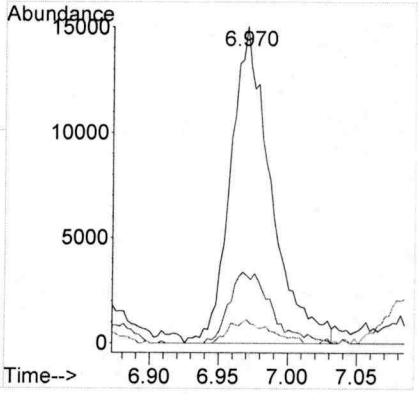


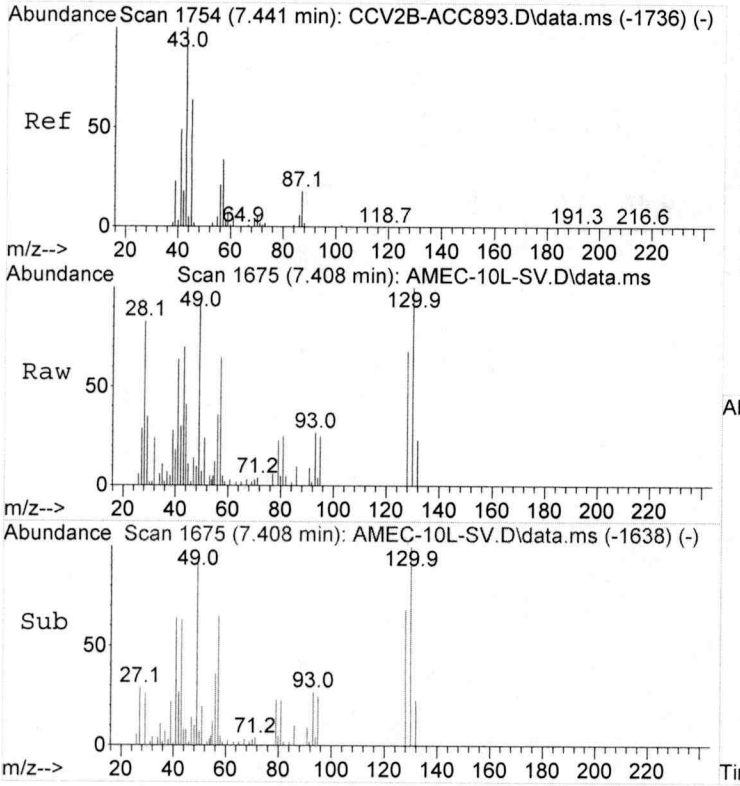


#26
2-Butanone
Concen: 3.665 ppbV
RT: 6.970 min Scan# 1518
Delta R.T. 0.033 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 43 Resp: 30560

Ion	Ratio	Lower	Upper
43	100		
72	23.4	0.0	51.3
57	7.4	0.0	32.0

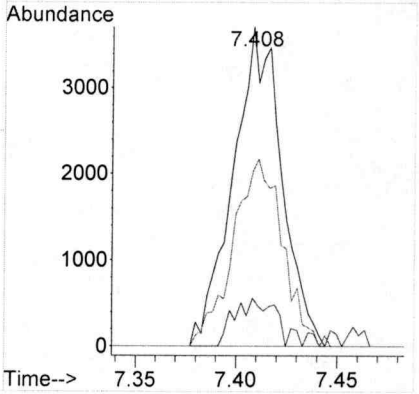


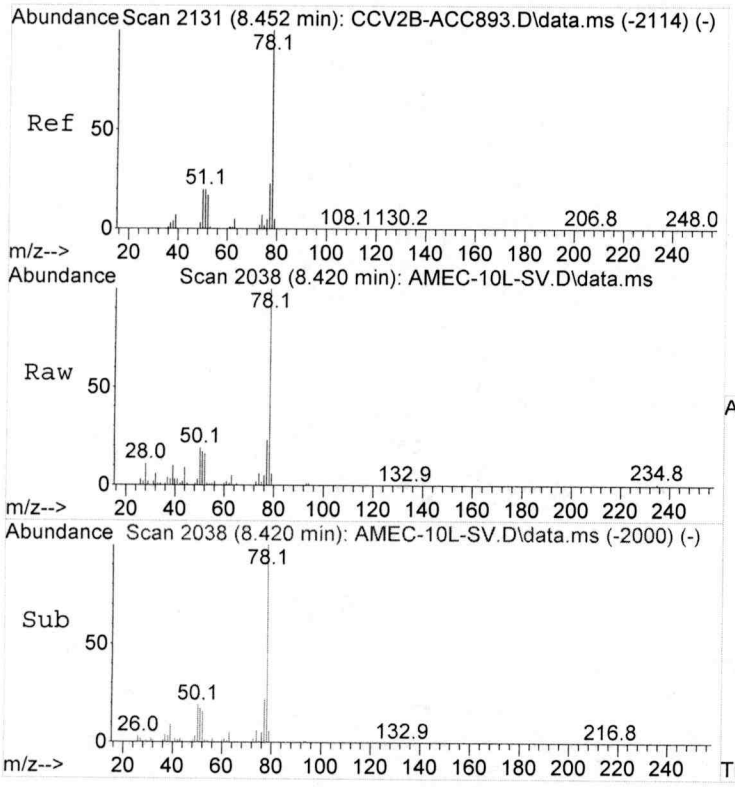


#30
Hexane
Concen: 1.465 ppbV
RT: 7.408 min Scan# 1675
Delta R.T. 0.004 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 57 Resp: 6200

Ion	Ratio	Lower	Upper
57	100		
86	13.1	0.0	47.3
56	59.9	26.1	86.1

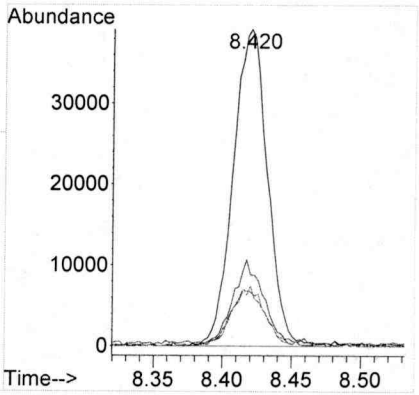


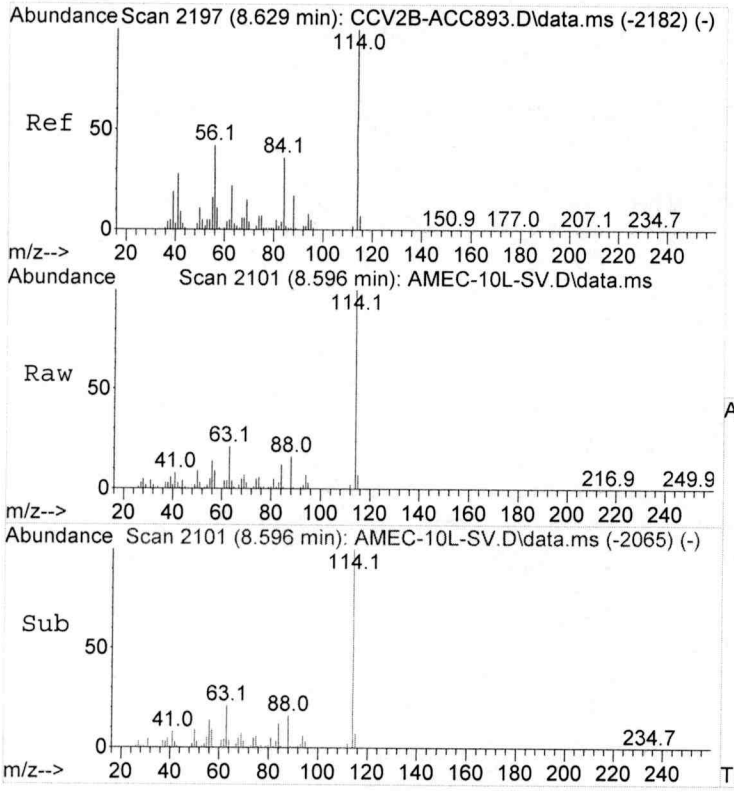


#39
Benzene
Concen: 7.165 ppbV
RT: 8.420 min Scan# 2038
Delta R.T. 0.005 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 78 Resp: 67663

Ion	Ratio	Lower	Upper
78	100		
77	22.8	0.0	54.2
50	18.0	0.0	50.5
51	18.4	0.0	51.1

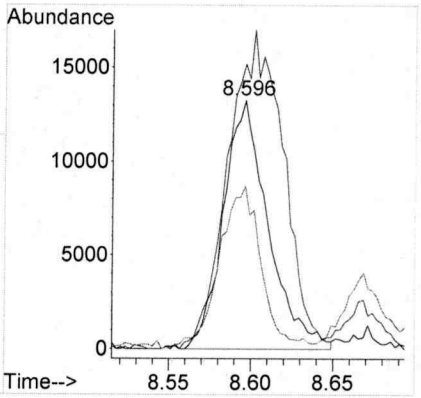


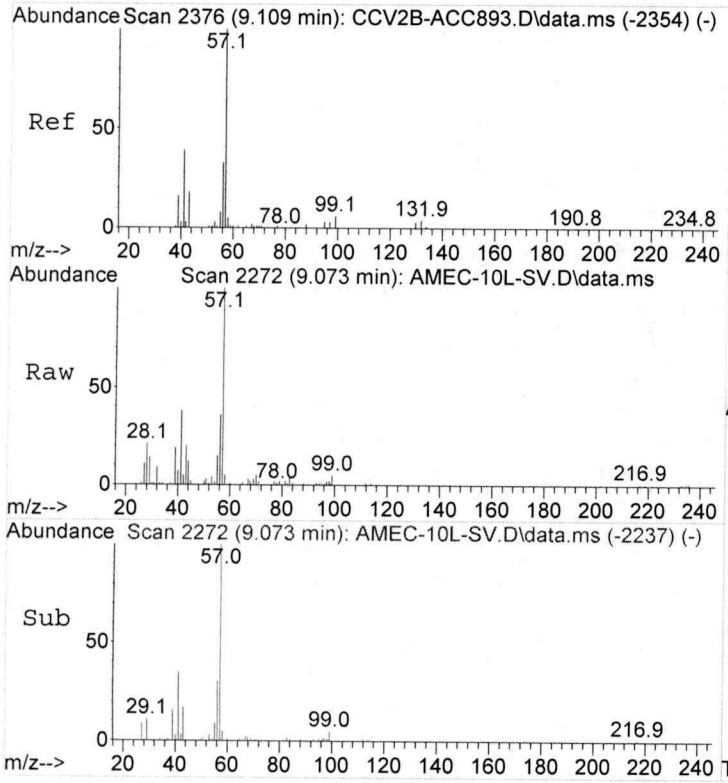


#42
Cyclohexane
Concen: 4.472 ppbV
RT: 8.596 min Scan# 2101
Delta R.T. 0.002 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 84 Resp: 25050

Ion	Ratio	Lower	Upper
84	100		
56	158.1	107.0	167.0
41	58.3	43.0	103.0

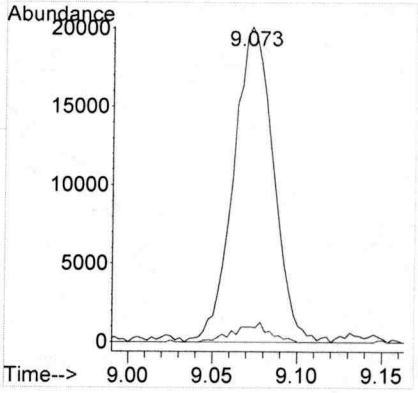


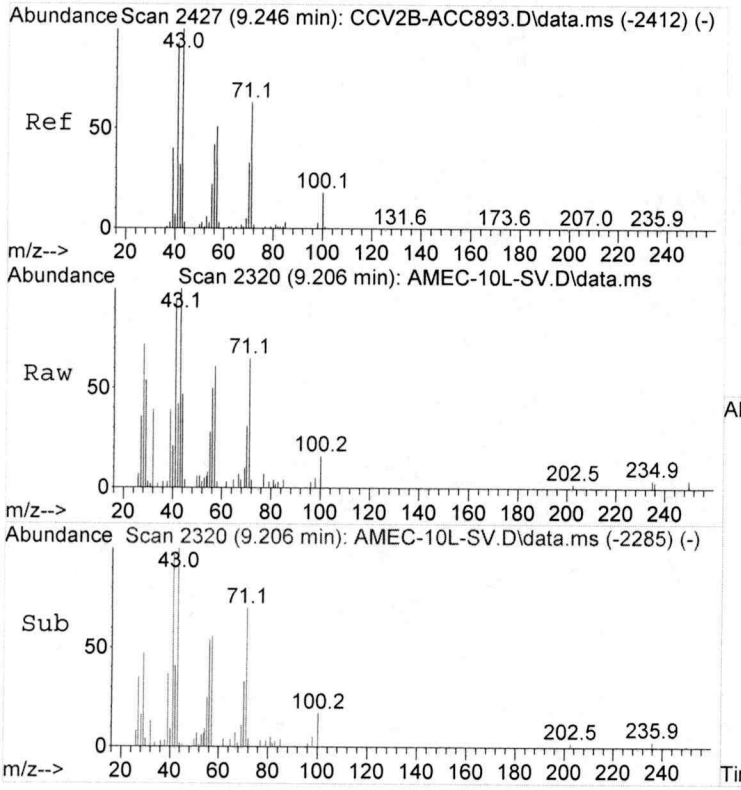


#49
2,2,4 Trimethylpentane
Concen: 1.737 ppbV
RT: 9.073 min Scan# 2272
Delta R.T. -0.002 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 57 Resp: 33029

Ion	Ratio	Lower	Upper
57	100		
99	5.4	7.0	10.4#

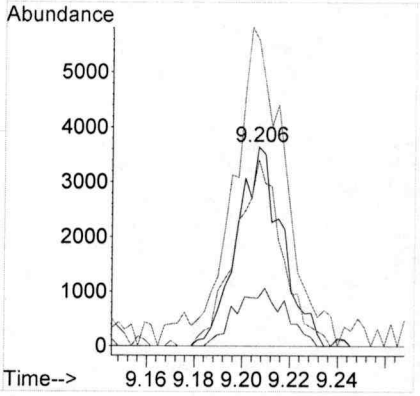


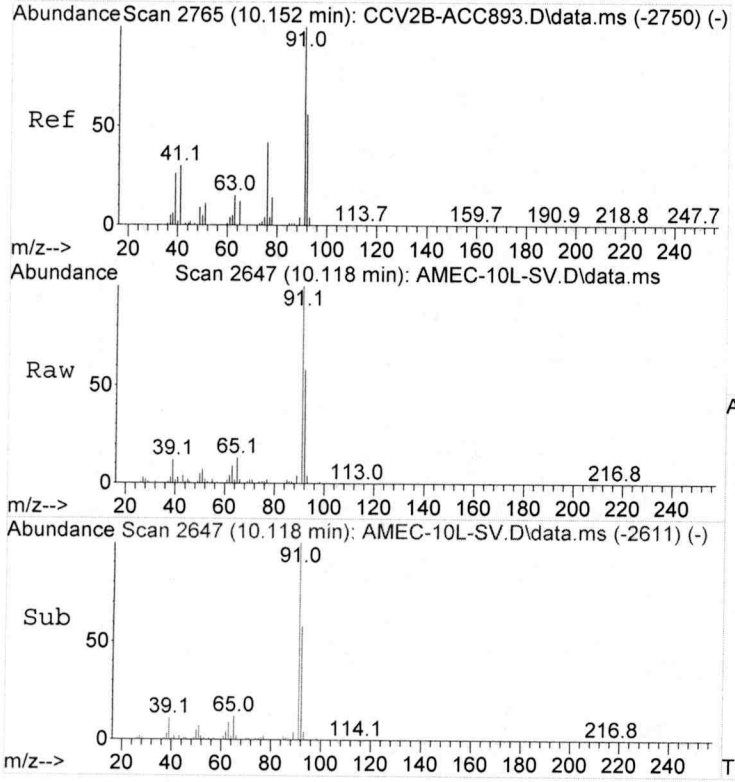


#50
Heptane
Concen: 1.343 ppbV
RT: 9.206 min Scan# 2320
Delta R.T. -0.002 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 71 Resp: 4813

Ion	Ratio	Lower	Upper
71	100		
100	31.6	1.2	61.2
57	97.1	61.4	121.4
43	179.3	139.4	199.4

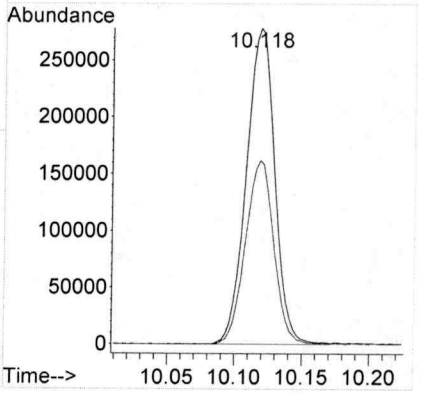


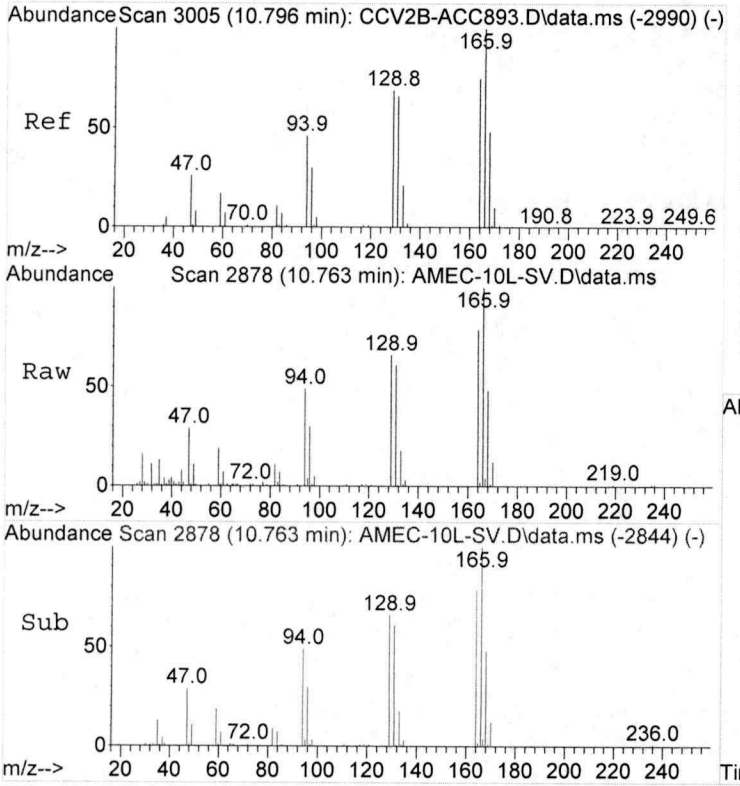


#56
Toluene
Concen: 20.017 ppbV
RT: 10.118 min Scan# 2647
Delta R.T. 0.001 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 91 Resp: 409446

Ion	Ratio	Lower	Upper
91	100		
92	58.2	28.5	88.5

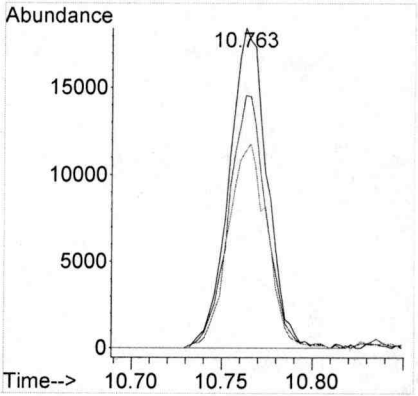


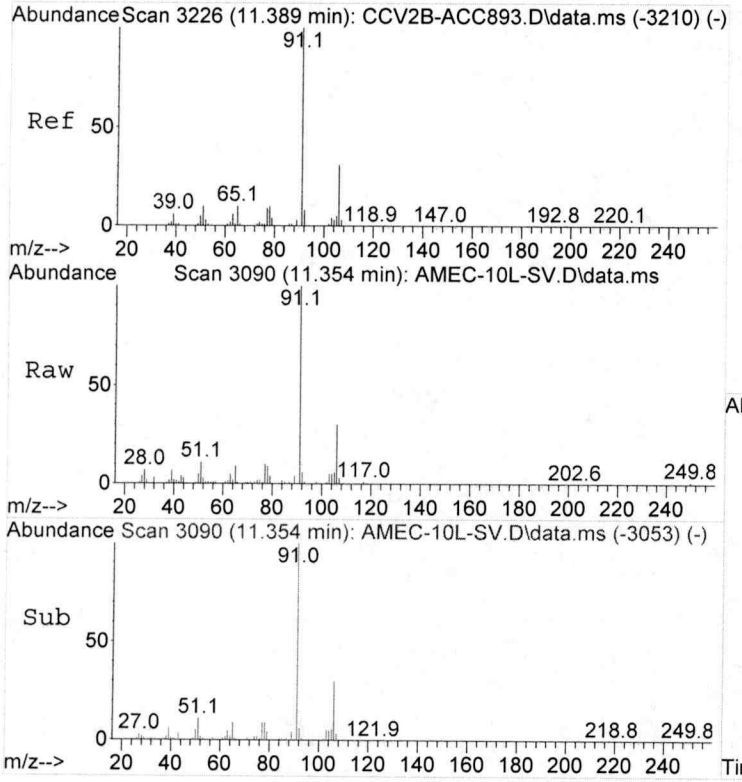


#61
Tetrachloroethene
Concen: 2.257 ppbV
RT: 10.763 min Scan# 2878
Delta R.T. -0.004 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion:166 Resp: 27095

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.1	107.1
131	65.6	37.3	97.3

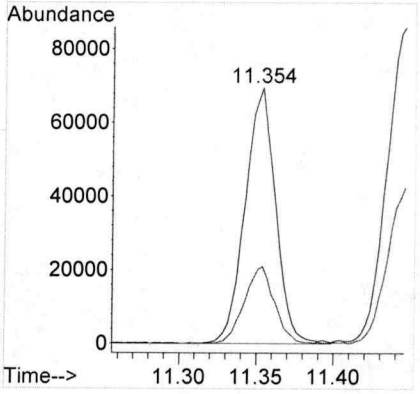


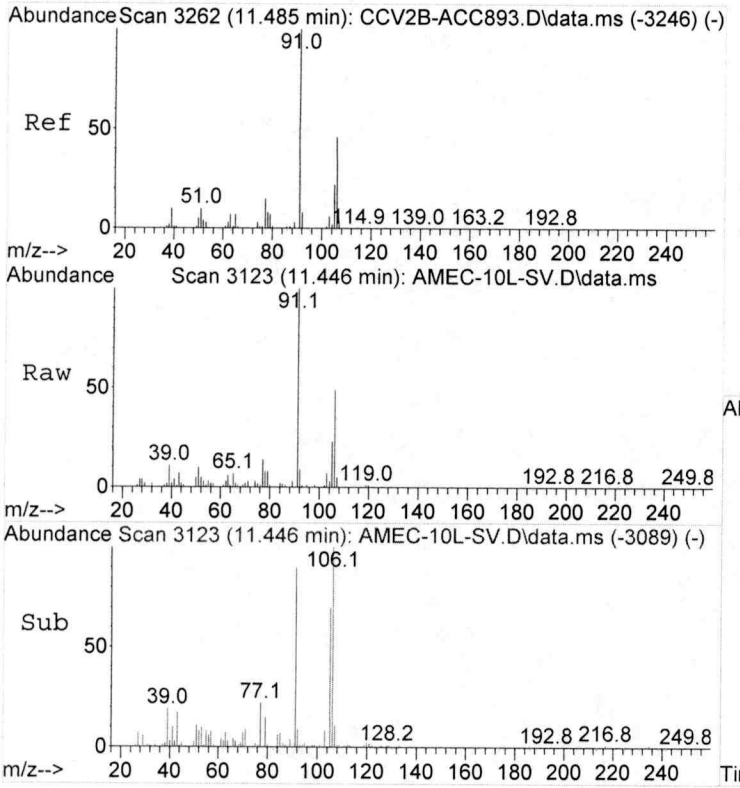


#65
Ethylbenzene
Concen: 4.693 ppbV
RT: 11.354 min Scan# 3090
Delta R.T. 0.002 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 91 Resp: 95303

Ion	Ratio	Lower	Upper
91	100		
106	29.9	0.0	59.5

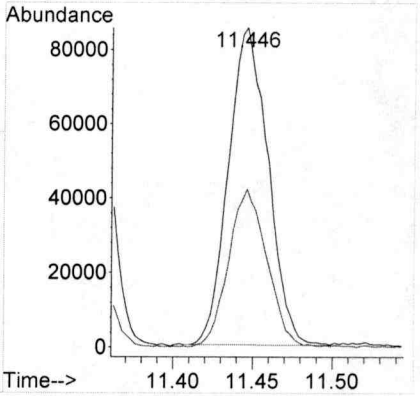


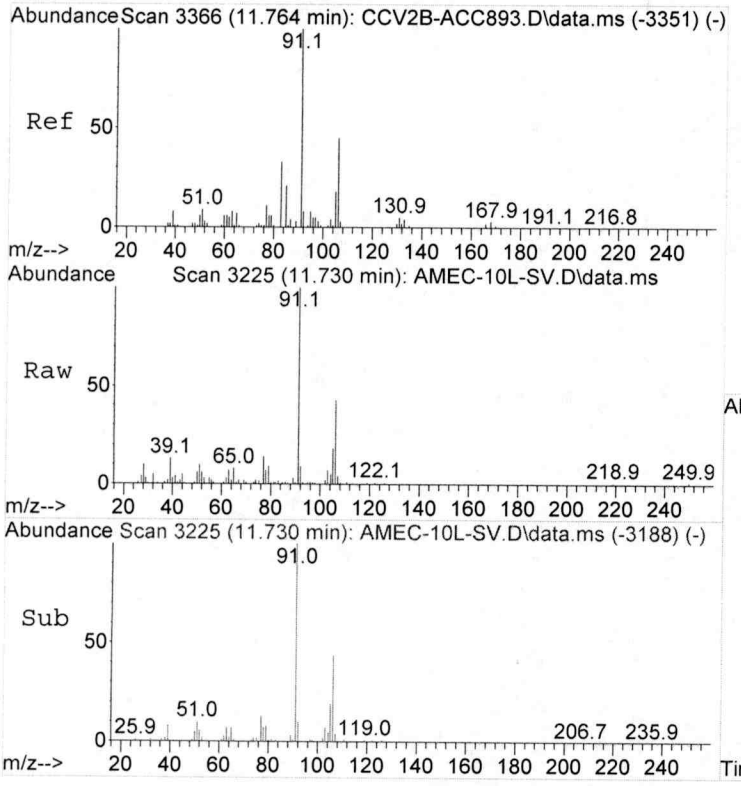


#66
m,p-Xylene
Concen: 7.852 ppbV
RT: 11.446 min Scan# 3123
Delta R.T. -0.005 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 91 Resp: 147533

Ion	Ratio	Lower	Upper
91	100		
106	47.8	16.6	76.6

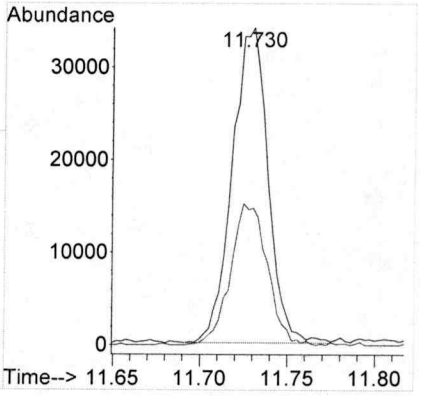


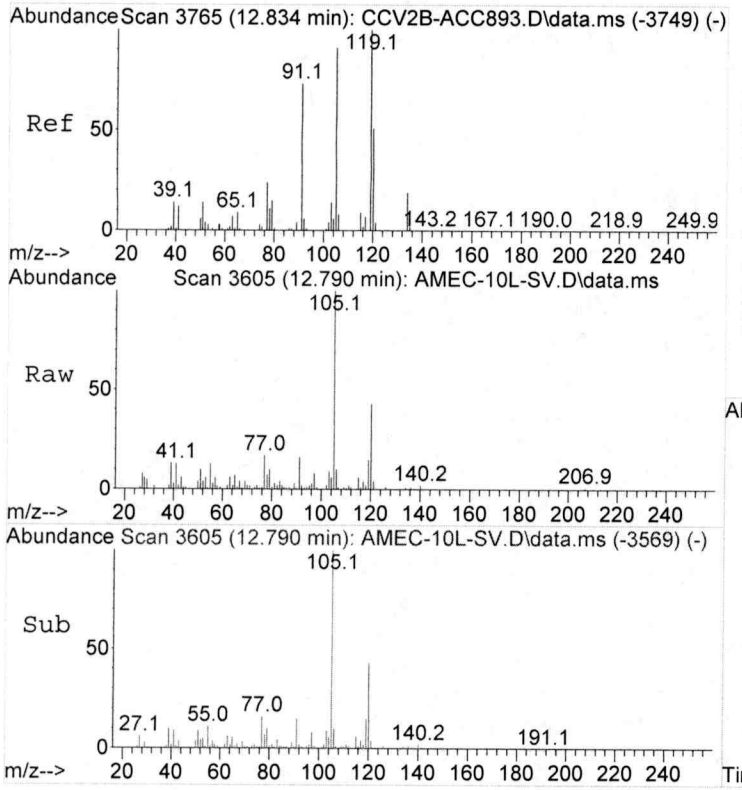


#70
o-Xylene
Concen: 2.363 ppbV
RT: 11.730 min Scan# 3225
Delta R.T. 0.003 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion: 91 Resp: 48510

Ion	Ratio	Lower	Upper
91	100		
106	46.1	13.1	73.1

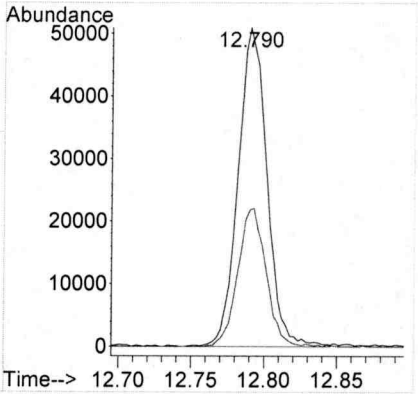




#81
1,2,4-Trimethylbenzene
Concen: 2.311 ppbV
RT: 12.790 min Scan# 3605
Delta R.T. 0.001 min
Lab File: AMEC-10L-SV.D
Acq: 20 Nov 2013 2:14 pm

Tgt Ion:105 Resp: 69954

Ion	Ratio	Lower	Upper
105	100		
120	42.3	22.2	82.2



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10B-SV.D
Acq On : 20 Nov 2013 2:53 pm
Operator : slc
Misc :
ALS Vial : 22 Sample Multiplier: 5

Quant Time: Jan 30 11:25:31 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-06 Inst : GCMS#12

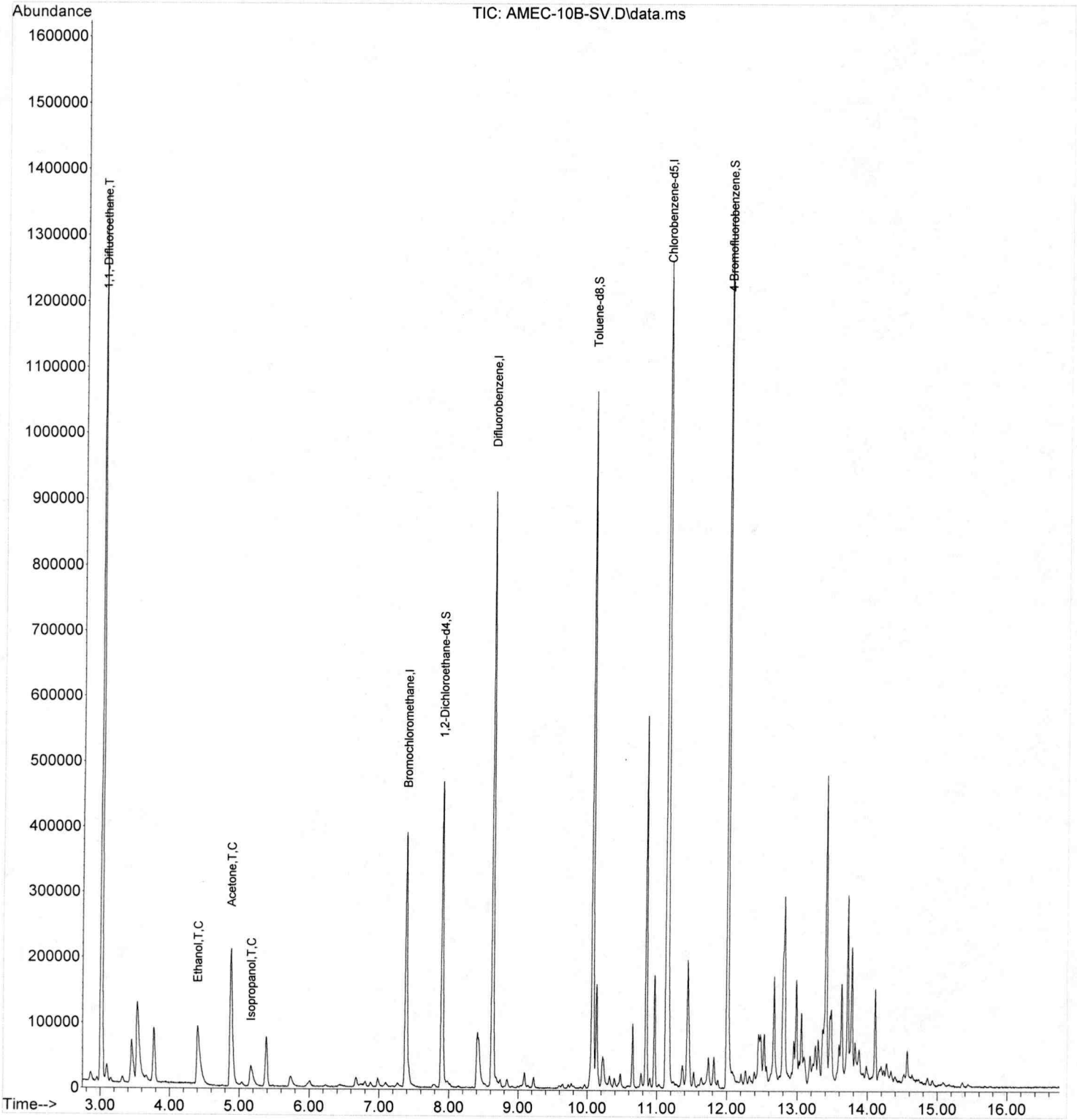
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.383	130	124977	50.00	ppbV	0.02
41) Difluorobenzene	8.626	114	552774	50.00	ppbV	0.02
63) Chlorobenzene-d5	11.133	82	287995	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.896	65	272055	59.33	ppbV	0.01
Spiked Amount 50.000			Recovery	=	118.66%	
55) Toluene-d8	10.071	98	533548	51.84	ppbV	0.01
Spiked Amount 50.000			Recovery	=	103.68%	
72) 4-Bromofluorobenzene	12.003	95	343294	49.28	ppbV	0.00
Spiked Amount 50.000			Recovery	=	98.56%	
Target Compounds						Qvalue
3) 1,1,1,2-Tetrafluoroethane	2.946	83	2722	1.100	ppbV	98
4) 1,1,-Difluoroethane	3.010	51	775324	367.995	ppbV	98
13) Ethanol	4.399	45	47988	47.853	ppbV #	100
14) Acetone	4.873	43	304306	56.896	ppbV	92
16) Isopropanol	5.163	45	37474	7.407	ppbV #	100
19) Methylene chloride	5.735	49	3429	1.039	ppbV	95
21) Carbon Disulfide	6.011	76	12098	1.644	ppbV	99
26) 2-Butanone	6.978	43	11994	2.080	ppbV #	96
30) Hexane	7.419	57	3383	1.156	ppbV #	74
39) Benzene	8.434	78	15265	2.338	ppbV	82
42) Cyclohexane	8.610	84	7327	2.035	ppbV #	12
56) Toluene	10.130	91	54638	4.157	ppbV	99
66) m,p-Xylene	11.457	91	52435	3.594	ppbV	98
70) o-Xylene	11.736	91	18683	1.172	ppbV	97
81) 1,2,4-Trimethylbenzene	12.795	105	65334	2.780	ppbV	87

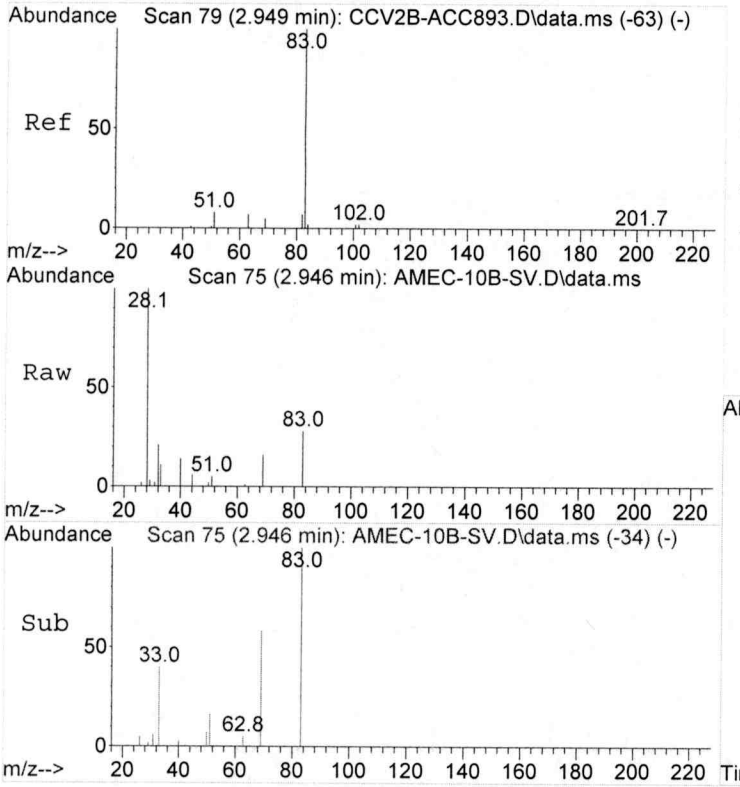
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10B-SV.D
Acq On : 20 Nov 2013 2:53 pm
Operator : slc
Misc :
ALS Vial : 22 Sample Multiplier: 5

Quant Time: Jan 30 11:25:31 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-06 Inst : GCMS#12

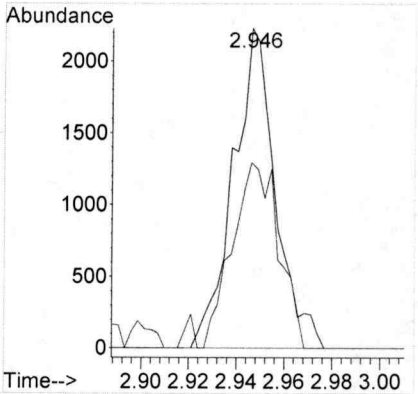


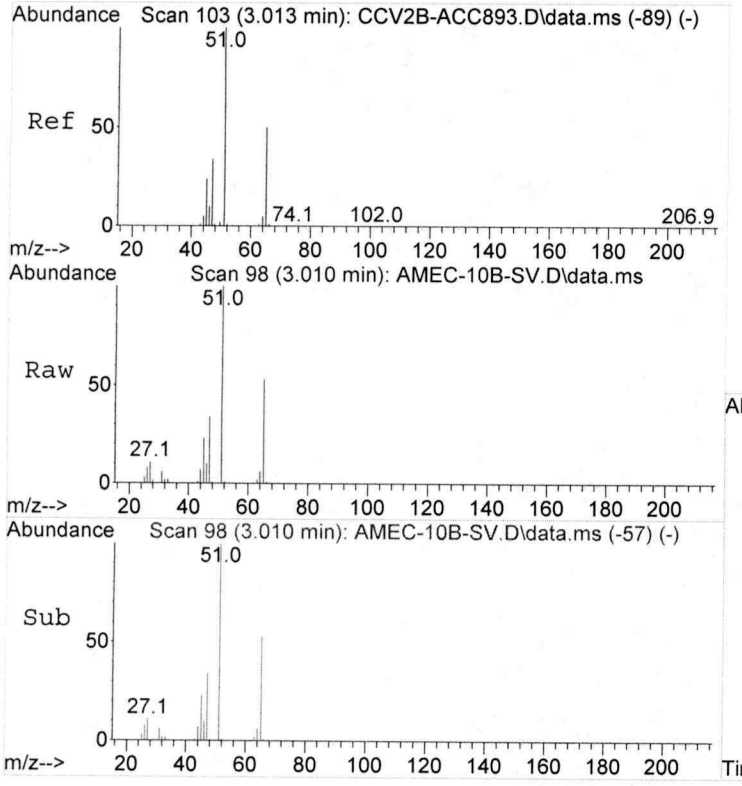


#3
1,1,1,2-Tetrafluoroethane
Concen: 1.100 ppbV
RT: 2.946 min Scan# 75
Delta R.T. 0.013 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 83 Resp: 2722

Ion	Ratio	Lower	Upper
83	100		
69	64.5	42.6	82.6

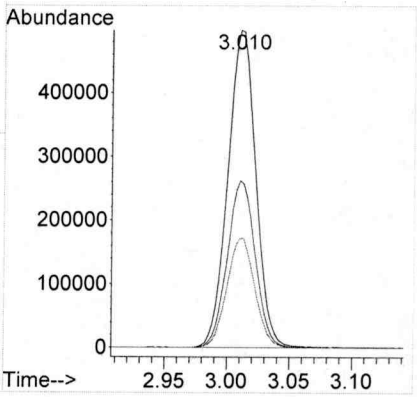


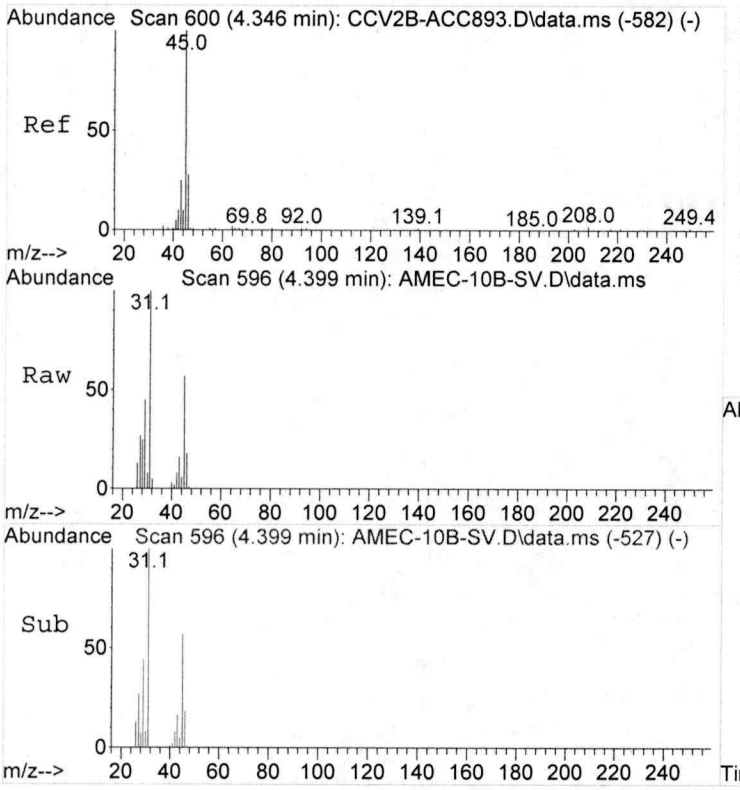


#4
1,1,-Difluoroethane
Concen: 367.995 ppbV
RT: 3.010 min Scan# 98
Delta R.T. 0.016 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 51 Resp: 775324

Ion	Ratio	Lower	Upper
51	100		
65	52.6	25.3	85.3
47	34.6	4.4	64.4

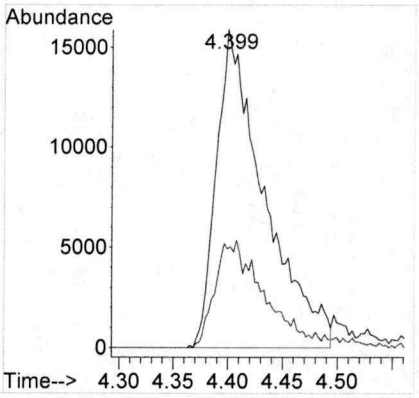


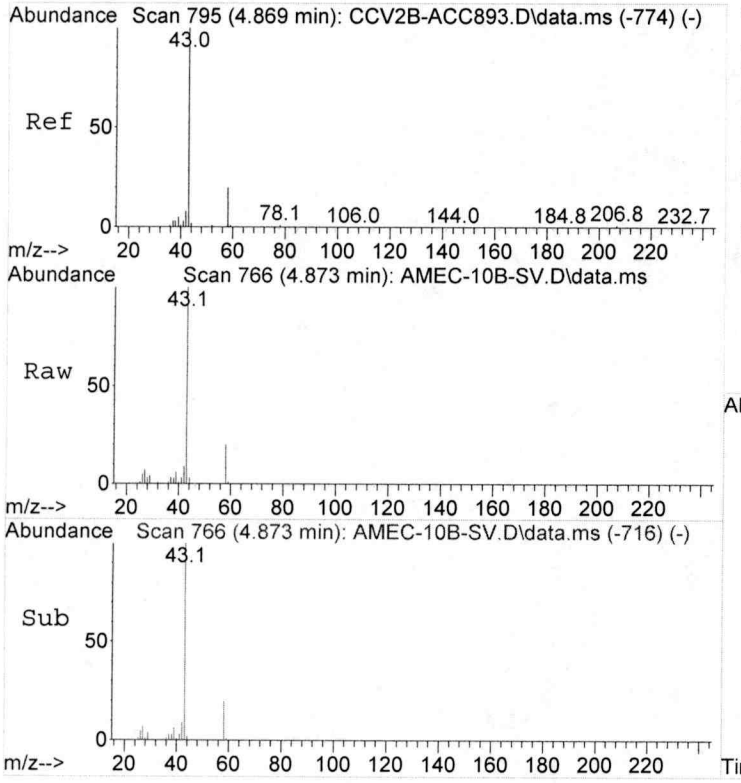


#13
Ethanol
Concen: 47.853 ppbV
RT: 4.399 min Scan# 596
Delta R.T. 0.093 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 45 Resp: 47988

Ion	Ratio	Lower	Upper
45	100		
46	34.3	0.0	30.0#

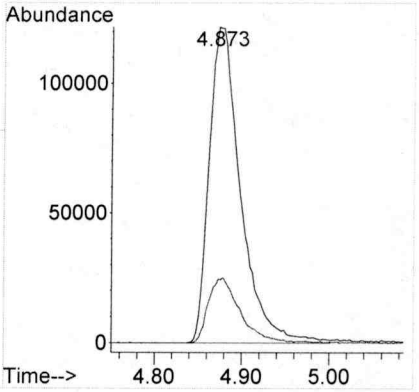


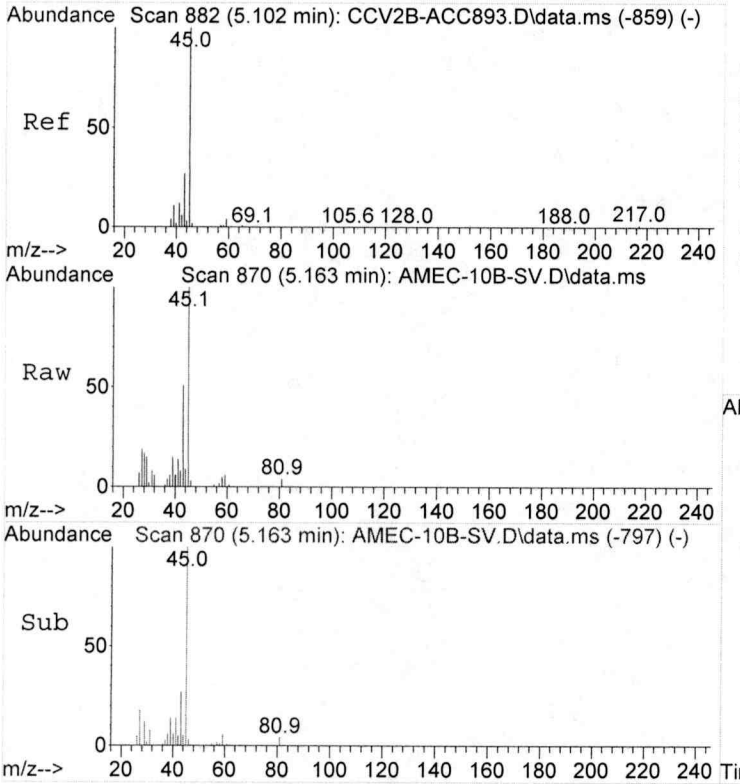


#14
Acetone
Concen: 56.896 ppbV
RT: 4.873 min Scan# 766
Delta R.T. 0.039 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 43 Resp: 304306

Ion	Ratio	Lower	Upper
43	100		
58	20.7	0.0	47.3

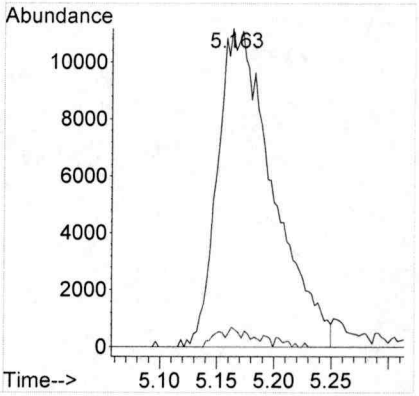


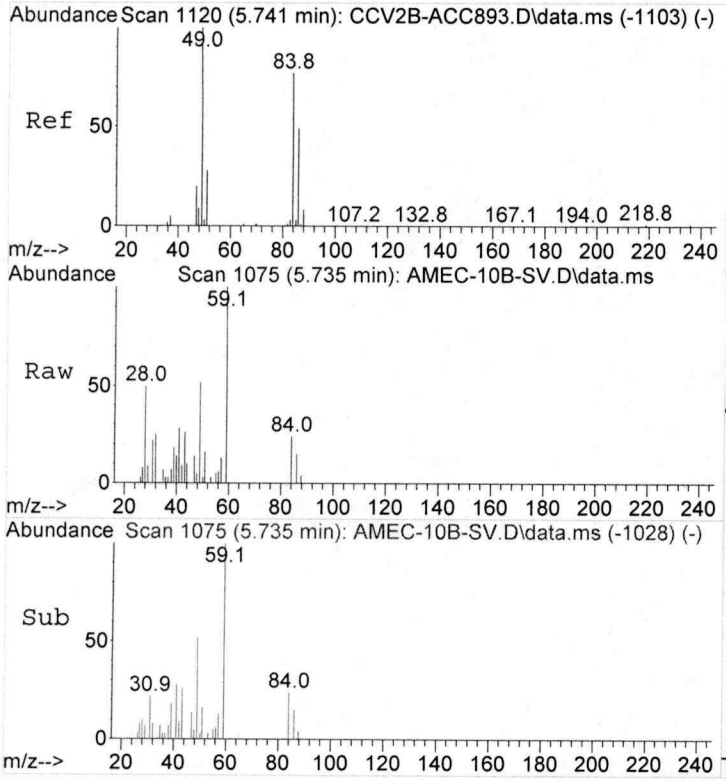


#16
Isopropanol
Concen: 7.407 ppbV
RT: 5.163 min Scan# 870
Delta R.T. 0.103 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 45 Resp: 37474

Ion	Ratio	Lower	Upper
45	100		
59	0.0	0.0	30.0

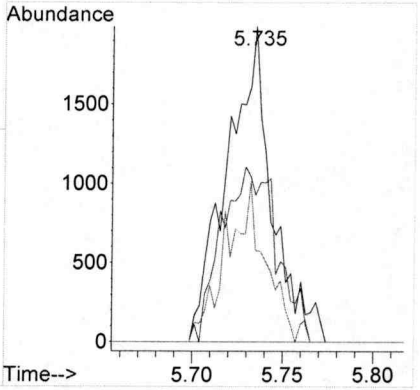


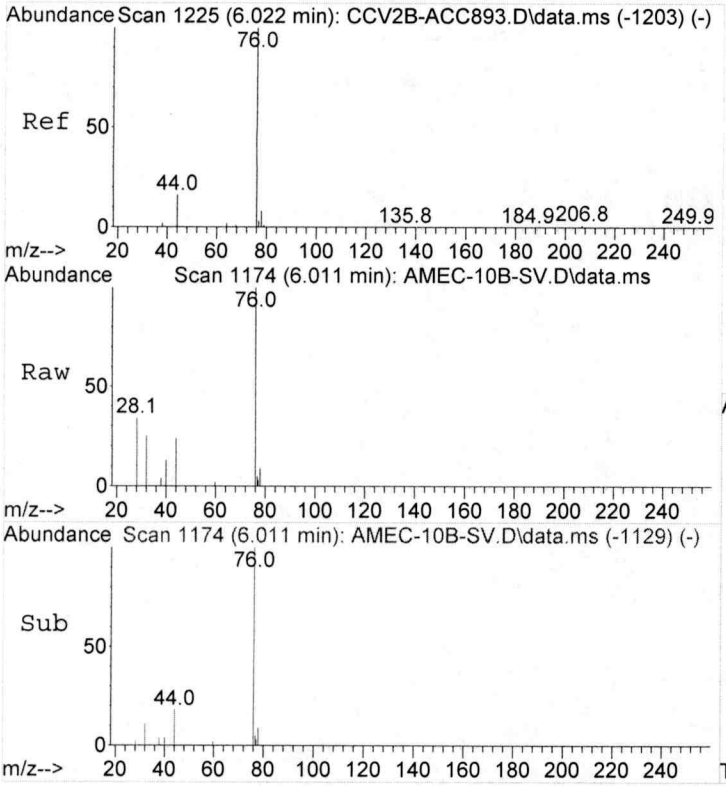


#19
Methylene chloride
Concen: 1.039 ppbV
RT: 5.735 min Scan# 1075
Delta R.T. 0.032 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 49 Resp: 3429

Ion	Ratio	Lower	Upper
49	100		
84	68.6	42.1	102.1
86	43.5	17.3	77.3

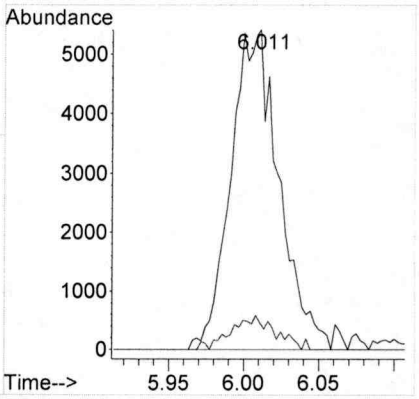


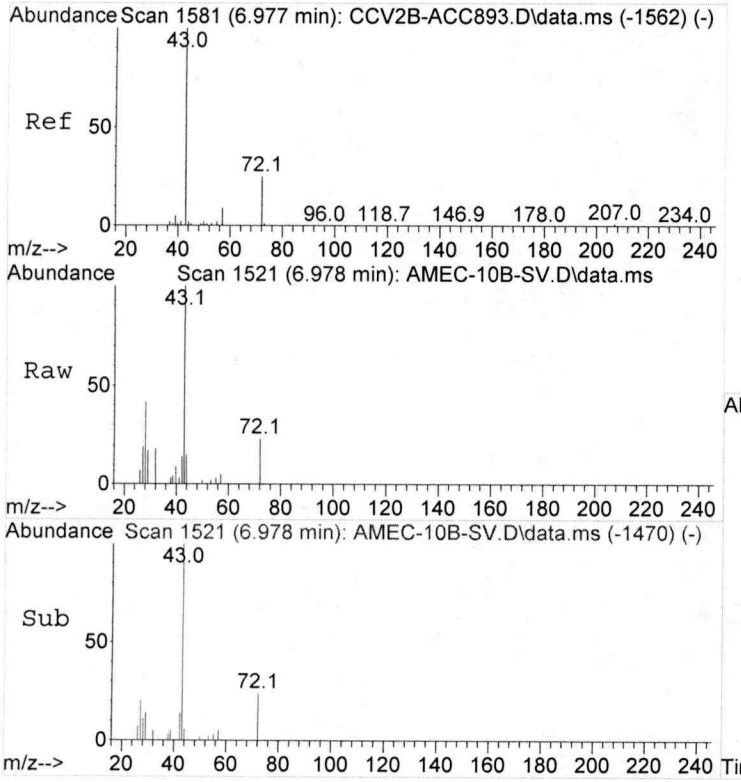


#21
Carbon Disulfide
Concen: 1.644 ppbV
RT: 6.011 min Scan# 1174
Delta R.T. 0.026 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 76 Resp: 12098

Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	39.5

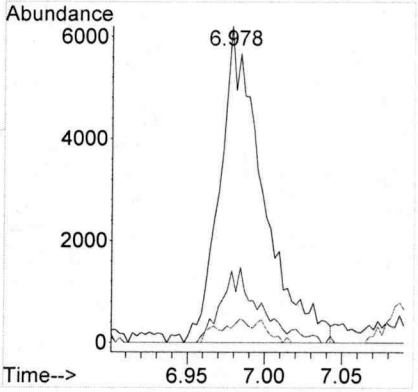


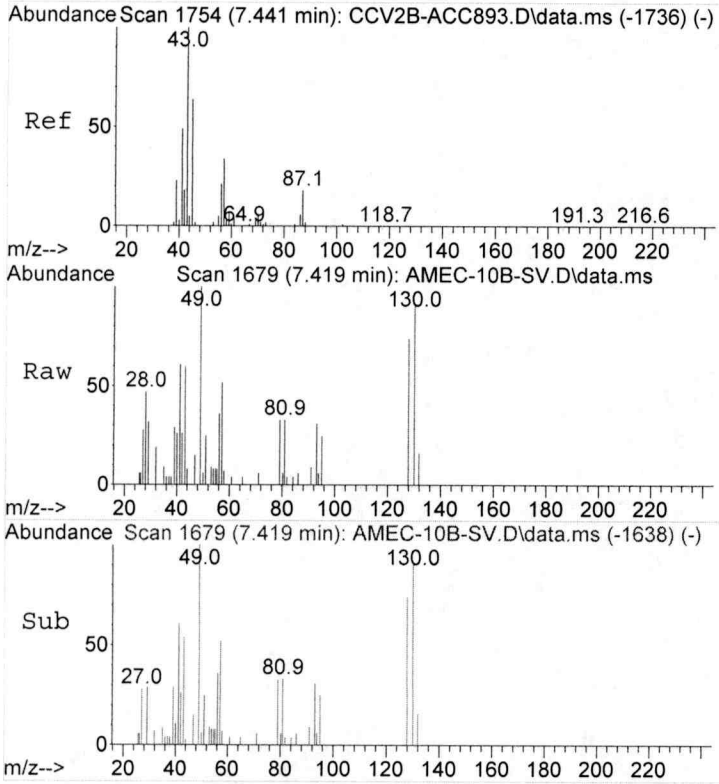


#26
2-Butanone
Concen: 2.080 ppbV
RT: 6.978 min Scan# 1521
Delta R.T. 0.041 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 43 Resp: 11994

Ion	Ratio	Lower	Upper
43	100		
72	19.6	0.0	51.3
57	0.0	0.0	32.0

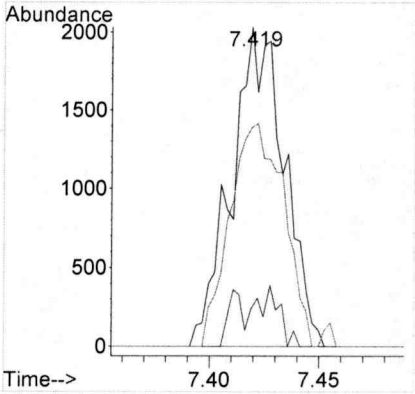


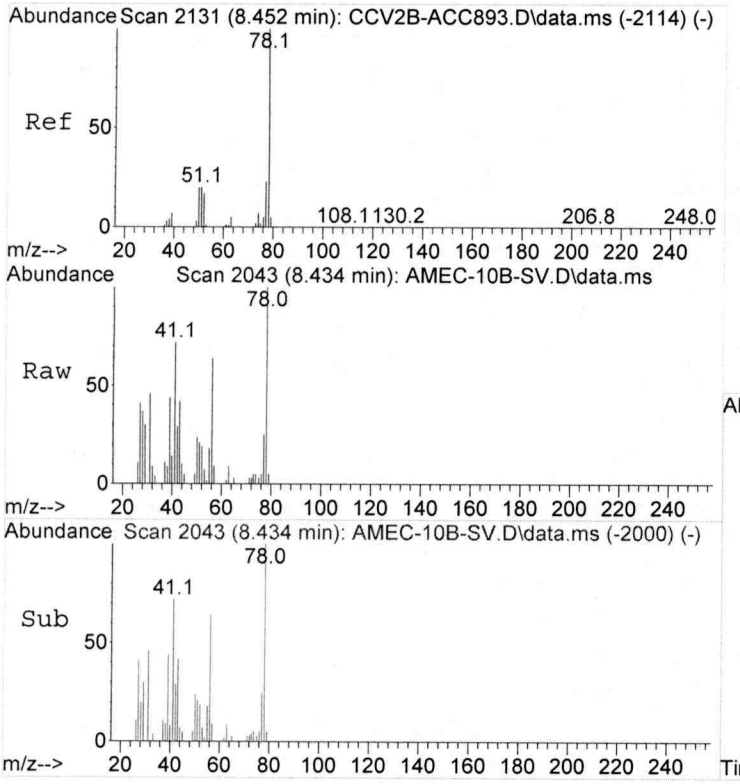


#30
Hexane
Concen: 1.156 ppbV
RT: 7.419 min Scan# 1679
Delta R.T. 0.015 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 57 Resp: 3383

Ion	Ratio	Lower	Upper
57	100		
86	0.0	0.0	47.3
56	71.7	26.1	86.1

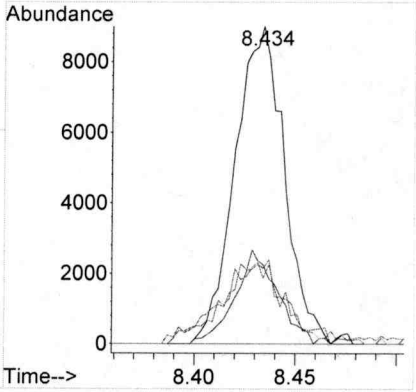


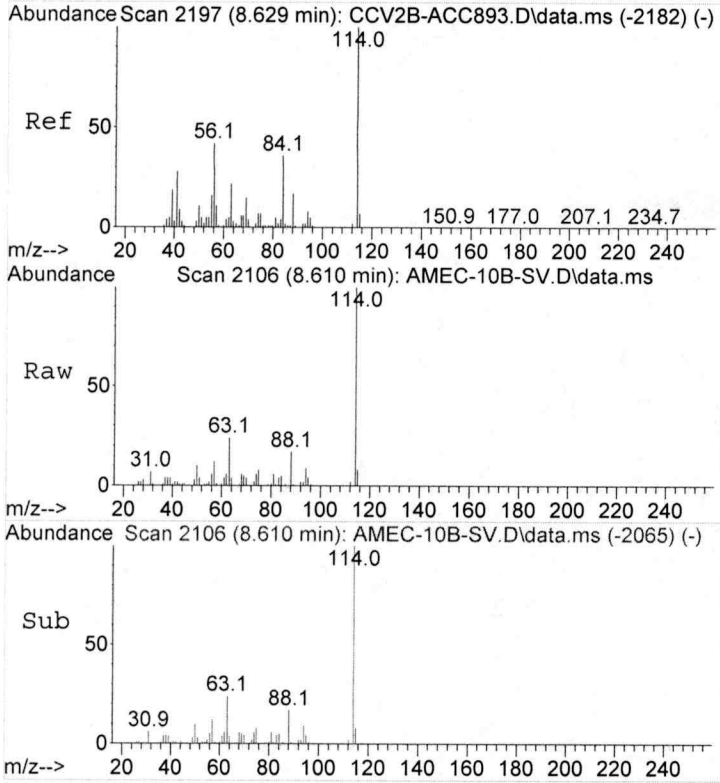


#39
Benzene
Concen: 2.338 ppbV
RT: 8.434 min Scan# 2043
Delta R.T. 0.019 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 78 Resp: 15265

Ion	Ratio	Lower	Upper
78	100		
77	25.9	0.0	54.2
50	34.2	0.0	50.5
51	31.6	0.0	51.1

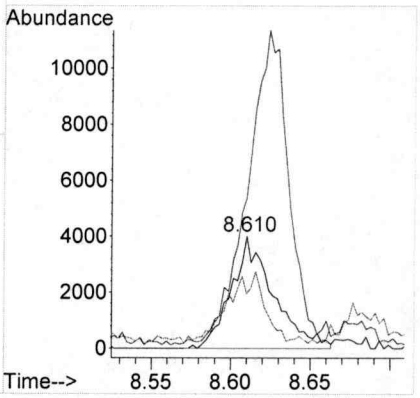


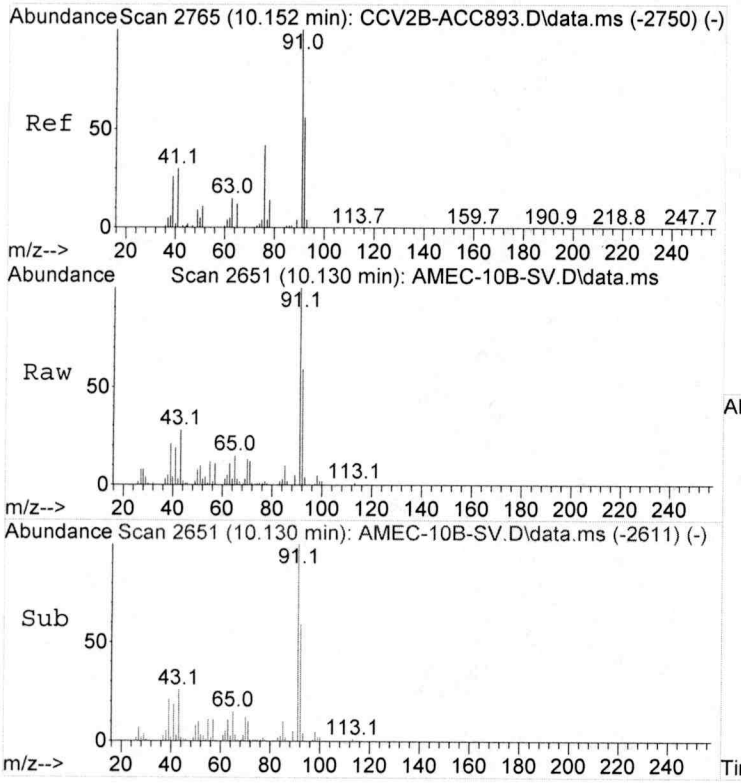


#42
Cyclohexane
Concen: 2.035 ppbV
RT: 8.610 min Scan# 2106
Delta R.T. 0.016 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 84 Resp: 7327

Ion	Ratio	Lower	Upper
84	100		
56	266.9	107.0	167.0#
41	31.6	43.0	103.0#

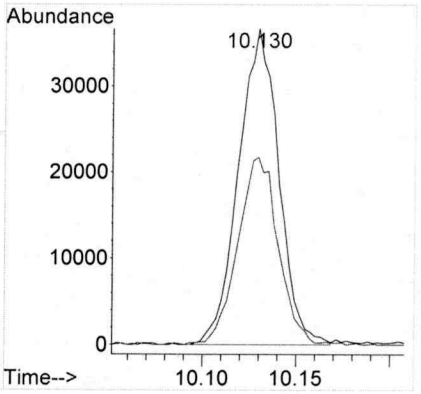


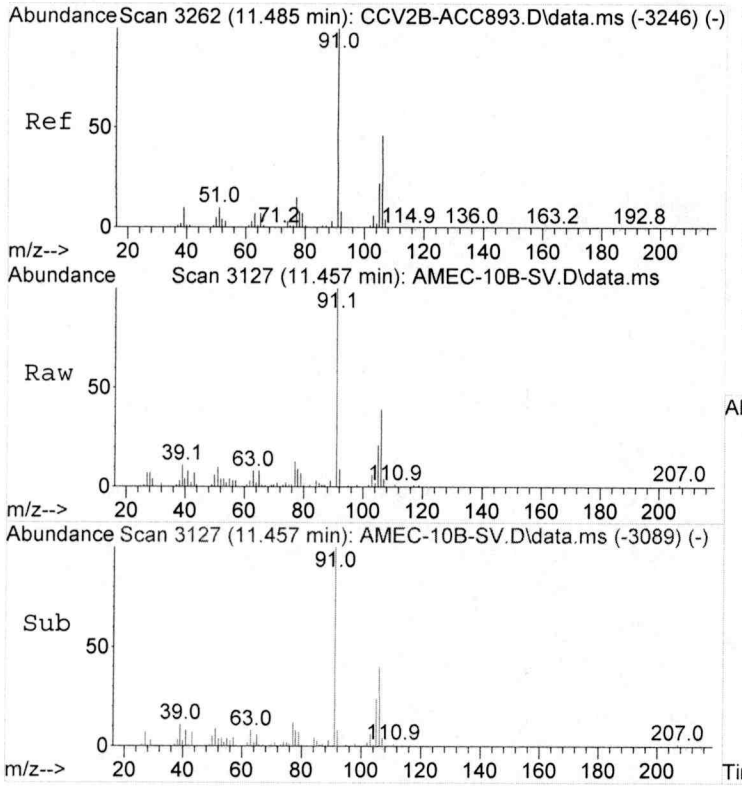


#56
Toluene
Concen: 4.157 ppbV
RT: 10.130 min Scan# 2651
Delta R.T. 0.012 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 91 Resp: 54638

Ion	Ratio	Lower	Upper
91	100		
92	59.3	28.5	88.5

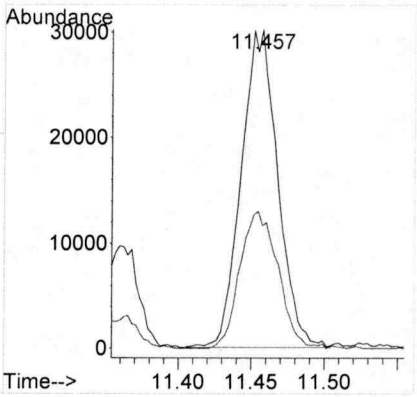


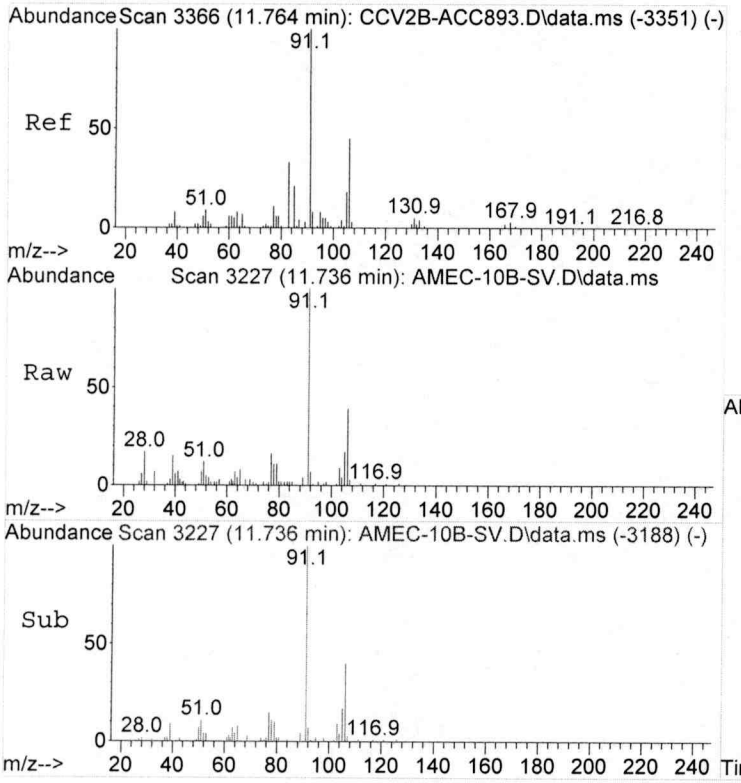


#66
m,p-Xylene
Concen: 3.594 ppbV
RT: 11.457 min Scan# 3127
Delta R.T. 0.006 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 91 Resp: 52435

Ion	Ratio	Lower	Upper
91	100		
106	45.1	16.6	76.6

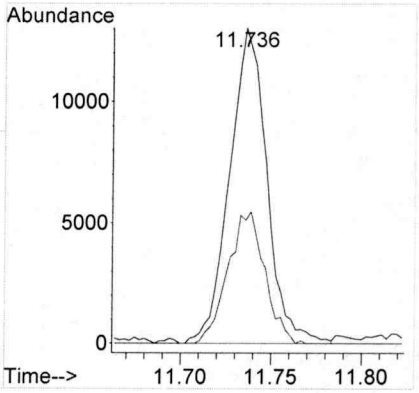


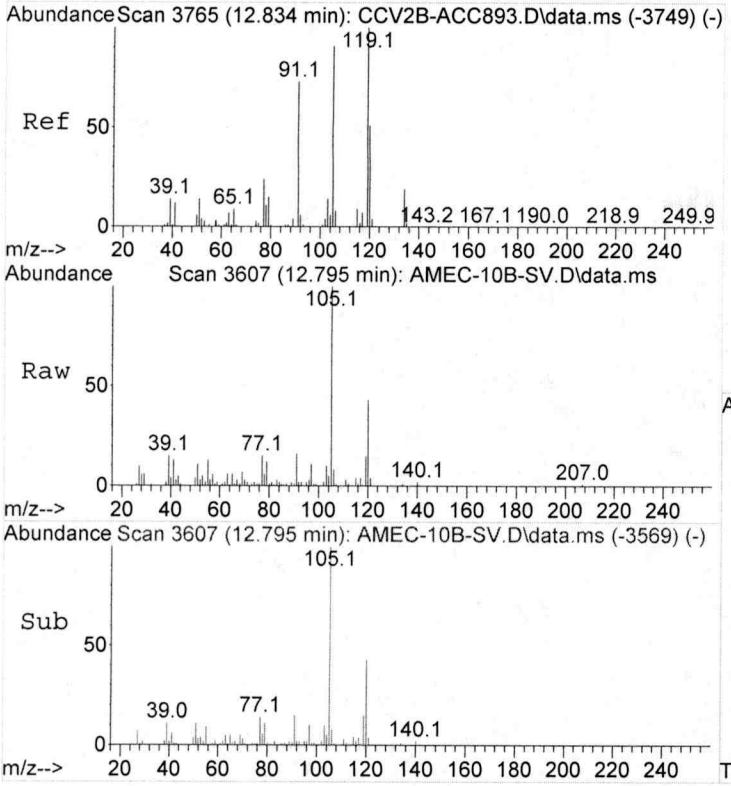


#70
o-Xylene
Concen: 1.172 ppbV
RT: 11.736 min Scan# 3227
Delta R.T. 0.009 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion: 91 Resp: 18683

Ion	Ratio	Lower	Upper
91	100		
106	41.3	13.1	73.1

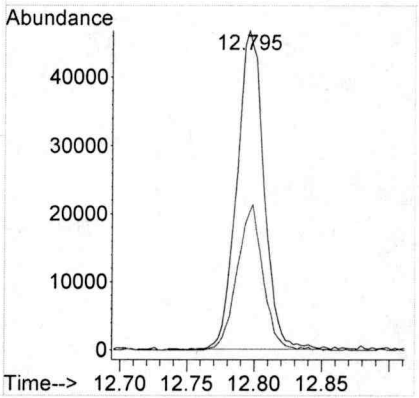




#81
1,2,4-Trimethylbenzene
Concen: 2.780 ppbV
RT: 12.795 min Scan# 3607
Delta R.T. 0.006 min
Lab File: AMEC-10B-SV.D
Acq: 20 Nov 2013 2:53 pm

Tgt Ion:105 Resp: 65334

Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.2	82.2



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10B-SV-rep.D
Acq On : 20 Nov 2013 3:29 pm
Operator : slc
Misc :
ALS Vial : 23 Sample Multiplier: 5

Quant Time: Jan 30 11:27:41 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-07 Inst : GCMS#12

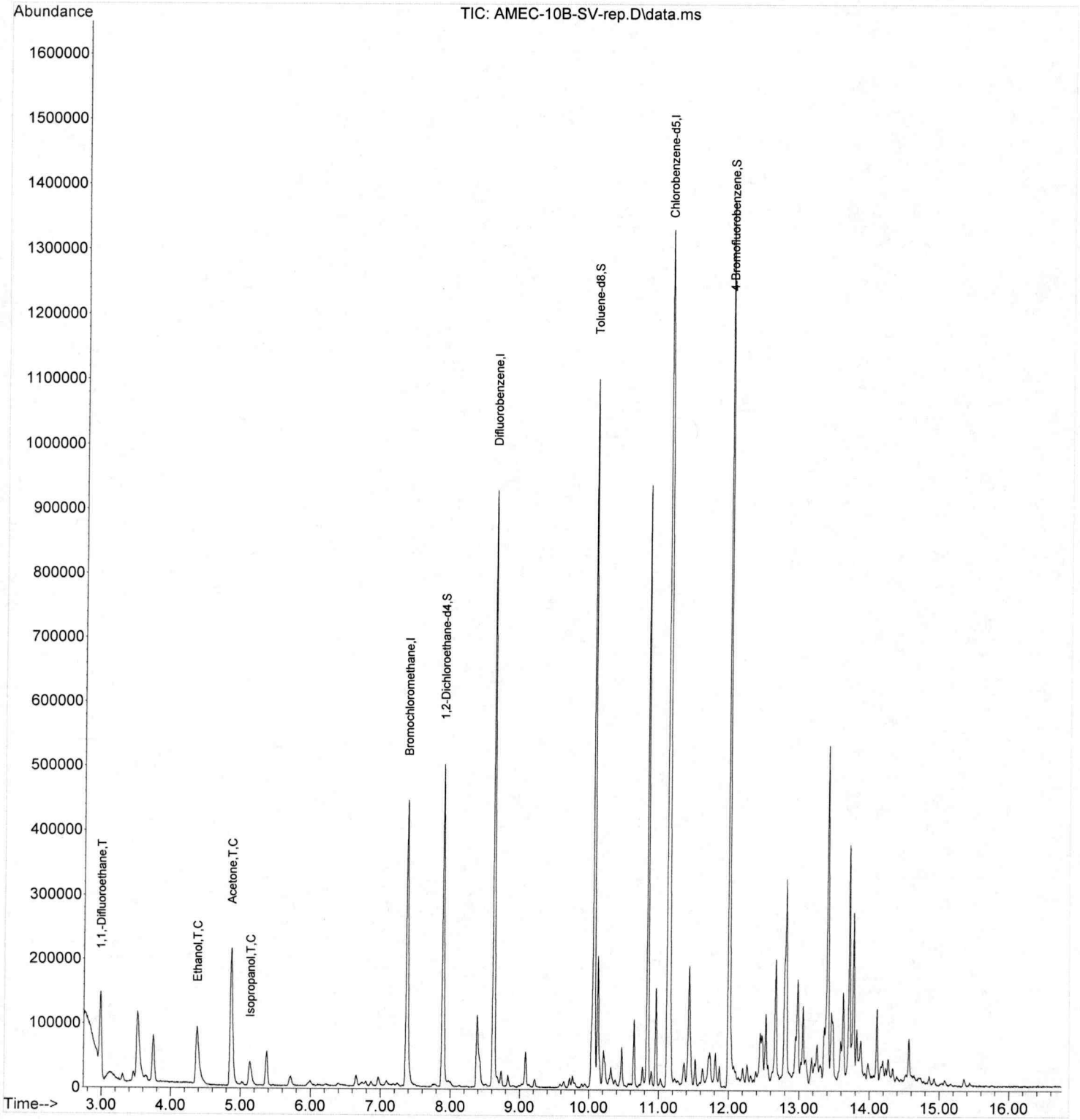
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.374	130	148341	50.00	ppbV	0.01
41) Difluorobenzene	8.621	114	568308	50.00	ppbV	0.01
63) Chlorobenzene-d5	11.131	82	299264	50.00	ppbV	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	7.890	65	287489	52.82	ppbV	0.00
Spiked Amount 50.000			Recovery	=	105.64%	
55) Toluene-d8	10.068	98	557448	52.68	ppbV	0.00
Spiked Amount 50.000			Recovery	=	105.36%	
72) 4-Bromofluorobenzene	12.003	95	355448	49.10	ppbV	0.00
Spiked Amount 50.000			Recovery	=	98.20%	
Target Compounds						Qvalue
4) 1,1,-Difluoroethane	2.979	51	116673	46.655	ppbV	98
13) Ethanol	4.374	45	46396	38.979	ppbV	100
14) Acetone	4.862	43	310039	48.838	ppbV	91
16) Isopropanol	5.132	45	44738	7.450	ppbV	100
18) tert-Butanol	5.715	59	10250	1.201	ppbV #	90
21) Carbon Disulfide	5.994	76	10189	1.166	ppbV	99
26) 2-Butanone	6.970	43	13367	1.953	ppbV	99
39) Benzene	8.426	78	13899	1.793	ppbV #	80
42) Cyclohexane	8.610	84	5891	1.592	ppbV #	1
49) 2,2,4 Trimethylpentane	9.084	57	23891	1.902	ppbV #	90
56) Toluene	10.124	91	39090	2.893	ppbV	100
66) m,p-Xylene	11.448	91	39758	2.622	ppbV	100
70) o-Xylene	11.730	91	20192	1.219	ppbV	95
81) 1,2,4-Trimethylbenzene	12.793	105	62680	2.566	ppbV	86

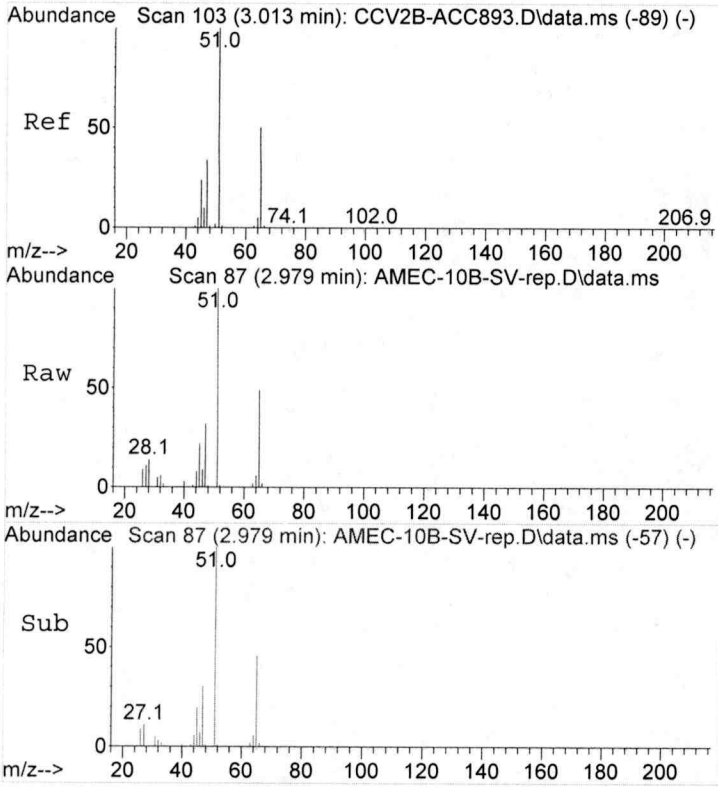
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\111913.1p\
Data File : AMEC-10B-SV-rep.D
Acq On : 20 Nov 2013 3:29 pm
Operator : slc
Misc :
ALS Vial : 23 Sample Multiplier: 5

Quant Time: Jan 30 11:27:41 2014
Quant Method : C:\msdchem\1\METHODS\102313ppbV-250cc.M
Quant Title : EPA TO-15 GC/MS #12
QLast Update : Thu Jan 30 10:36:55 2014
Sample : E311062-07 Inst : GCMS#12

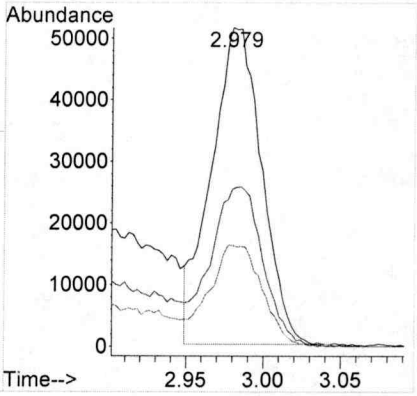


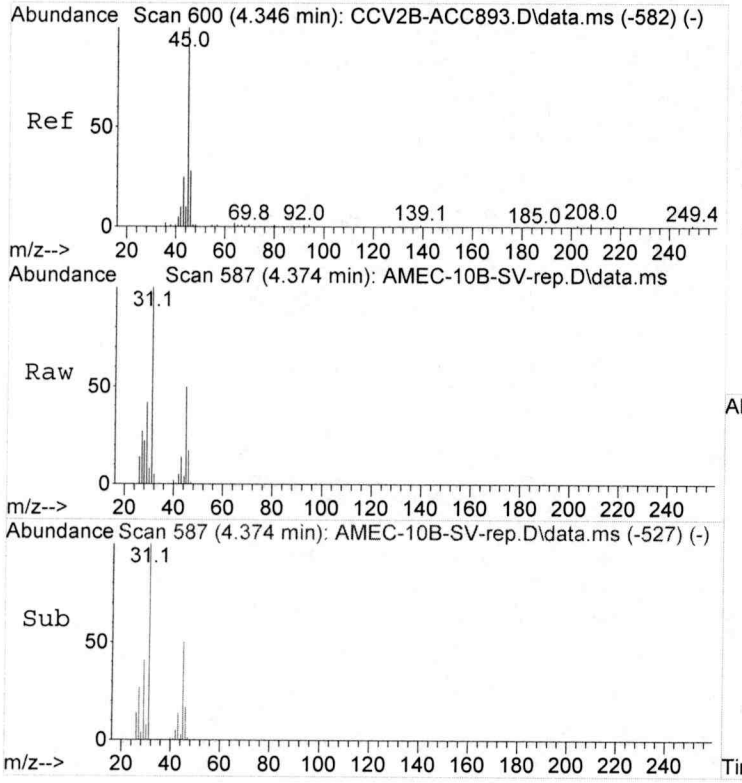


#4
1,1,-Difluoroethane
Concen: 46.655 ppbV
RT: 2.979 min Scan# 87
Delta R.T. -0.015 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 51 Resp: 116673

Ion	Ratio	Lower	Upper
51	100		
65	53.0	25.3	85.3
47	33.7	4.4	64.4

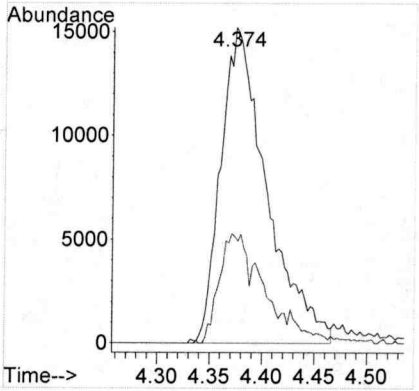


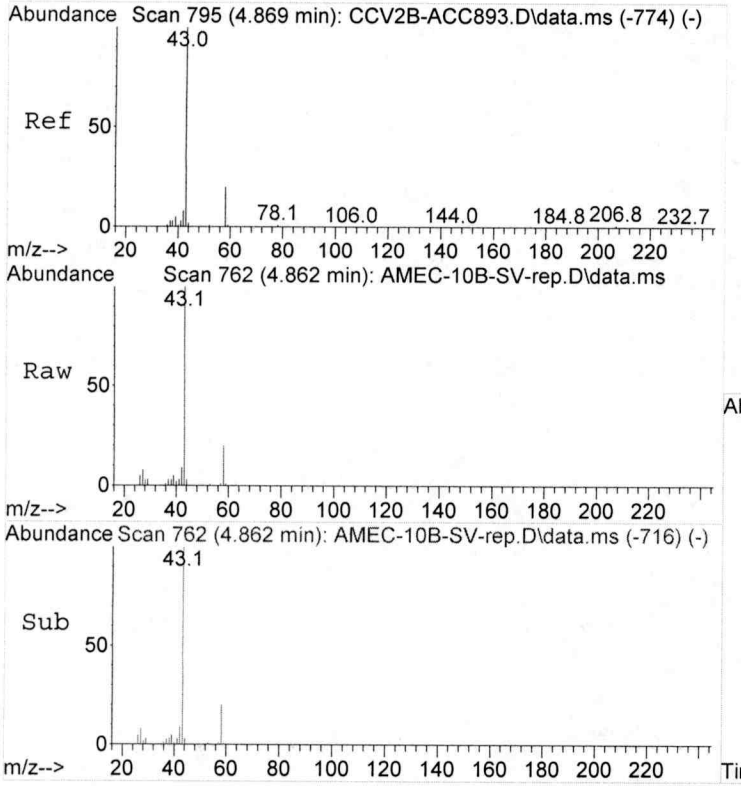


#13
Ethanol
Concen: 38.979 ppbV
RT: 4.374 min Scan# 587
Delta R.T. 0.068 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 45 Resp: 46396

Ion	Ratio	Lower	Upper
45	100		
46	20.1	0.0	30.0

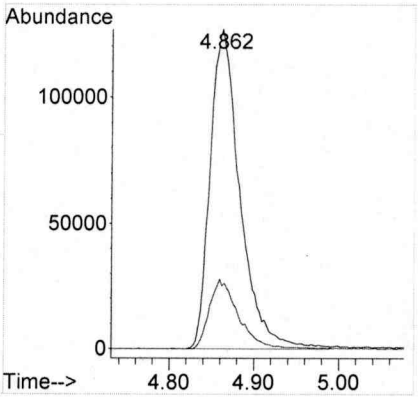


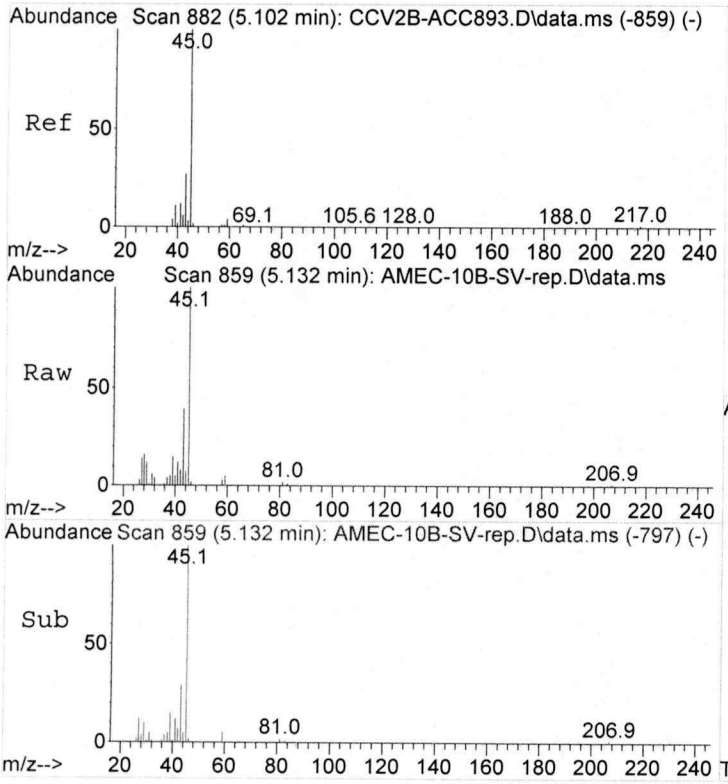


#14
Acetone
Concen: 48.838 ppbV
RT: 4.862 min Scan# 762
Delta R.T. 0.028 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 43 Resp: 310039

Ion	Ratio	Lower	Upper
43	100		
58	21.2	0.0	47.3

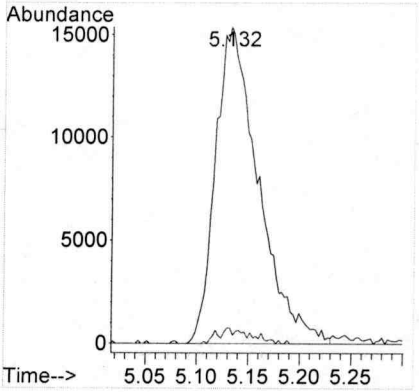


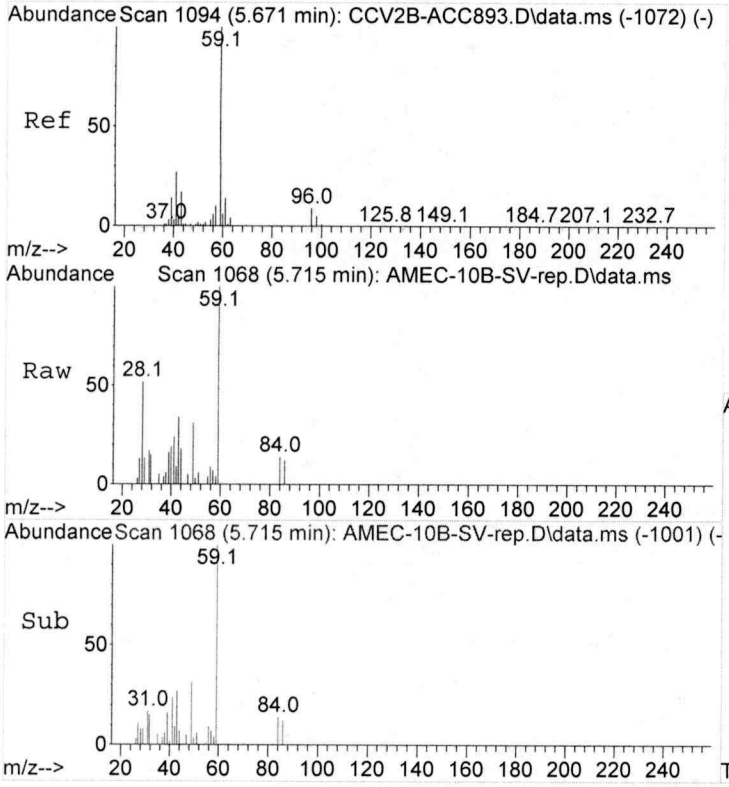


#16
Isopropanol
Concen: 7.450 ppbV
RT: 5.132 min Scan# 859
Delta R.T. 0.072 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 45 Resp: 44738

Ion	Ratio	Lower	Upper
45	100		
59	1.8	0.0	30.0

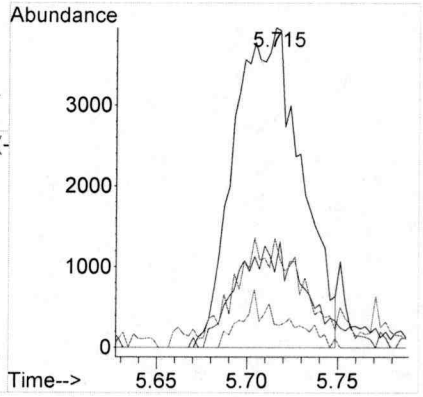


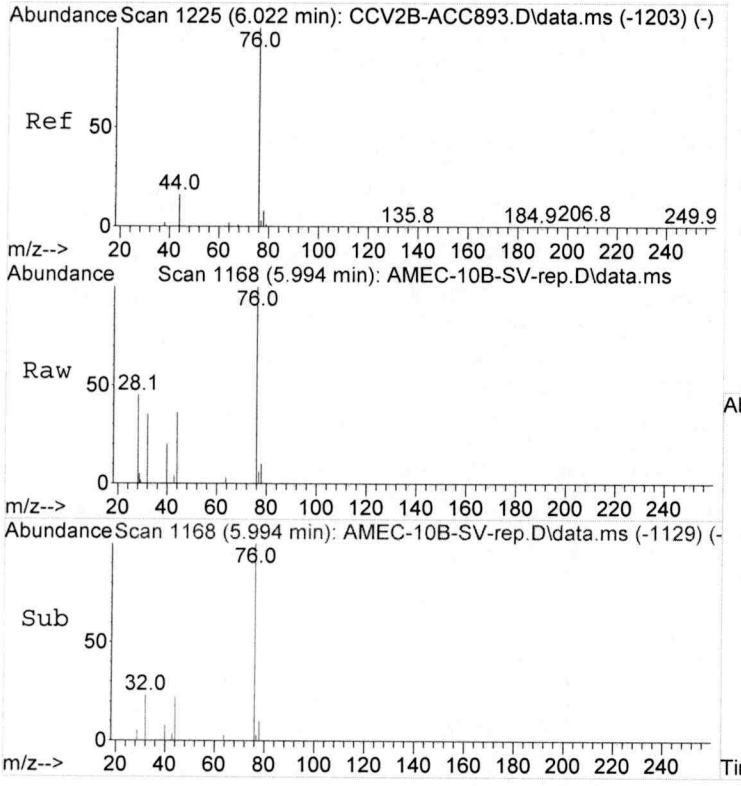


#18
tert-Butanol
Concen: 1.201 ppbV
RT: 5.715 min Scan# 1068
Delta R.T. 0.087 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 59 Resp: 10250

Ion	Ratio	Lower	Upper
59	100		
41	24.7	0.0	57.7
43	11.4	0.0	35.5
57	0.0	0.0	37.6

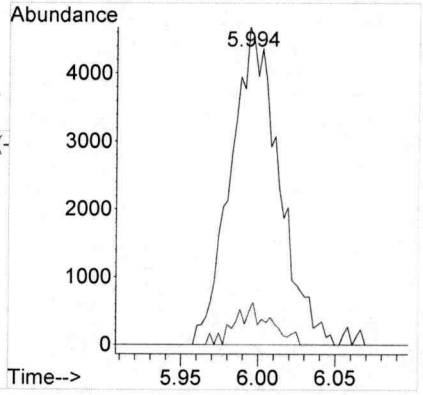


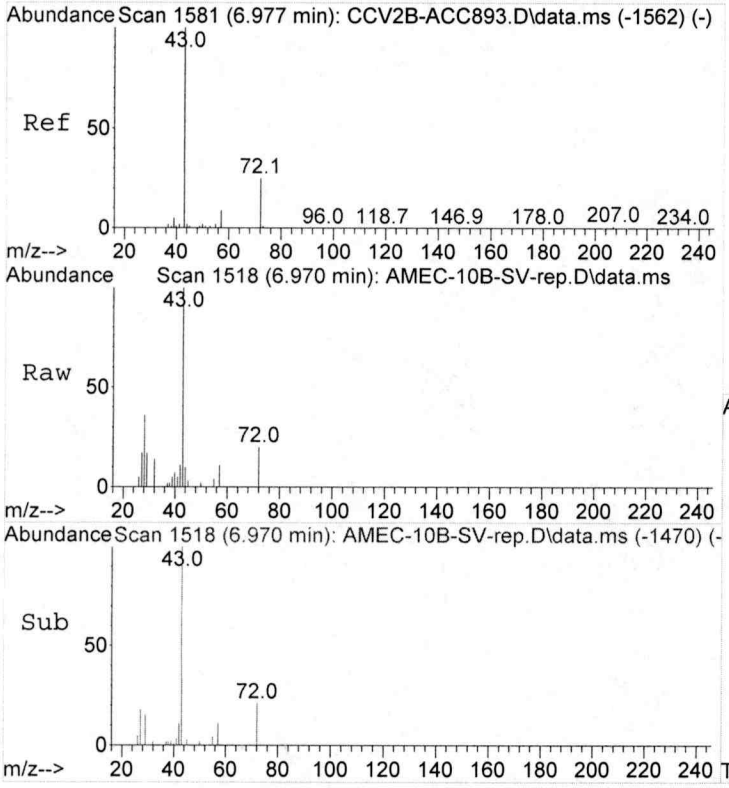


#21
Carbon Disulfide
Concen: 1.166 ppbV
RT: 5.994 min Scan# 1168
Delta R.T. 0.009 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 76 Resp: 10189

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	39.5

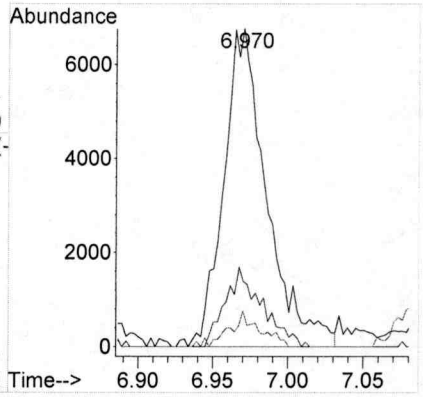


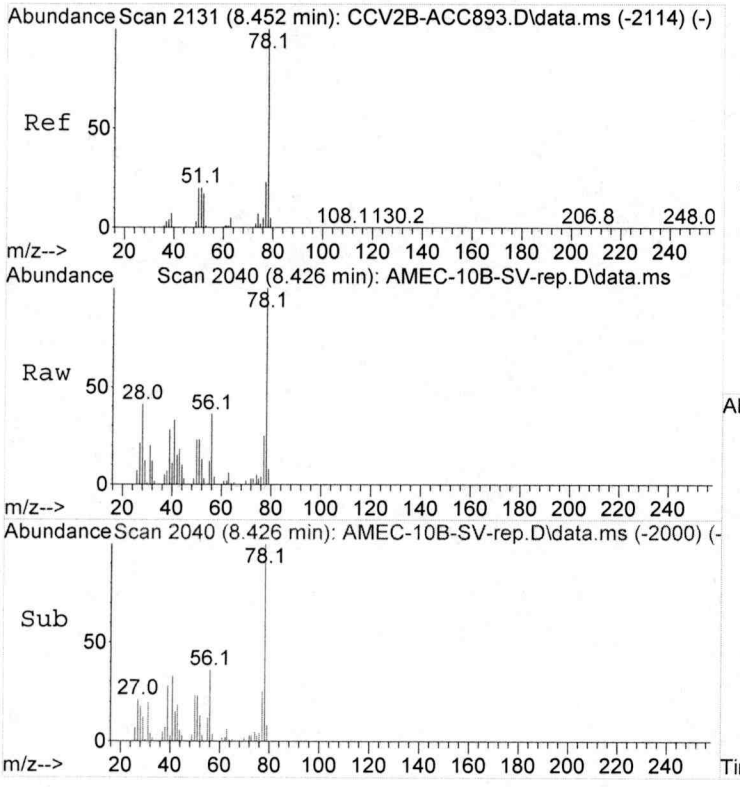


#26
2-Butanone
Concen: 1.953 ppbV
RT: 6.970 min Scan# 1518
Delta R.T. 0.033 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 43 Resp: 13367

Ion	Ratio	Lower	Upper
43	100		
72	21.4	0.0	51.3
57	7.5	0.0	32.0

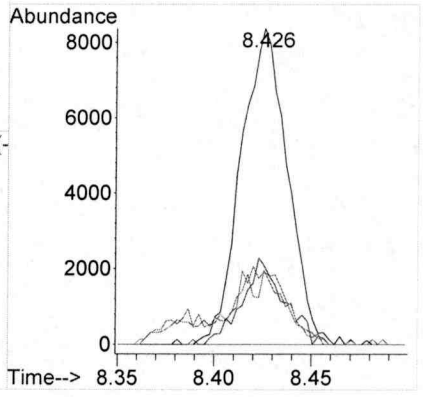


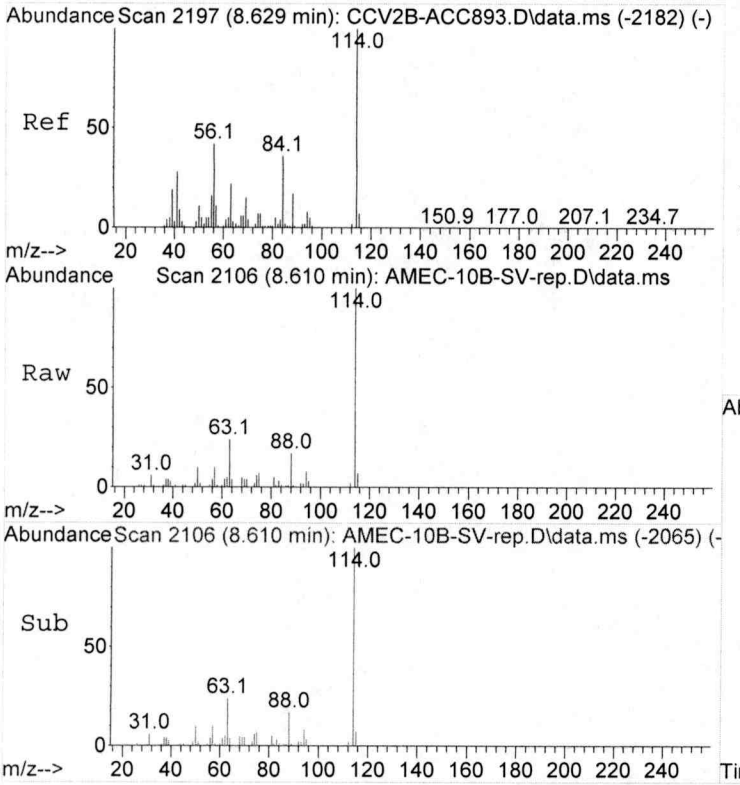


#39
Benzene
Concen: 1.793 ppbV
RT: 8.426 min Scan# 2040
Delta R.T. 0.011 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 78 Resp: 13899

Ion	Ratio	Lower	Upper
78	100		
77	24.5	0.0	54.2
50	0.0	0.0	50.5
51	12.6	0.0	51.1

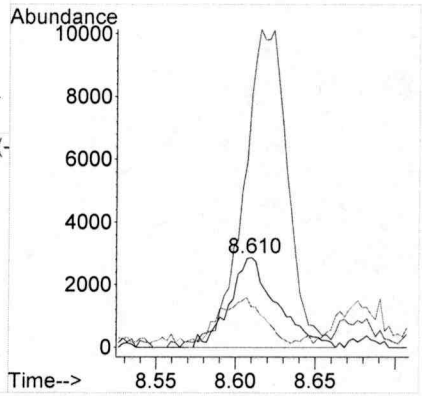


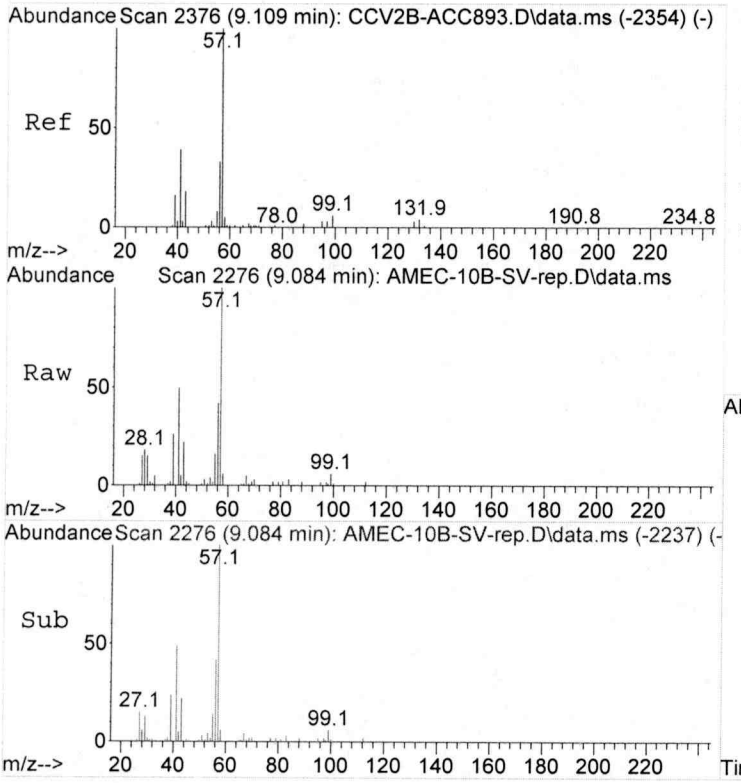


#42
Cyclohexane
Concen: 1.592 ppbV
RT: 8.610 min Scan# 2106
Delta R.T. 0.016 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 84 Resp: 5891

Ion	Ratio	Lower	Upper
84	100		
56	331.2	107.0	167.0#
41	45.8	43.0	103.0

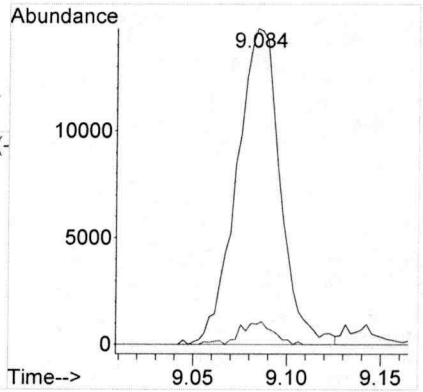


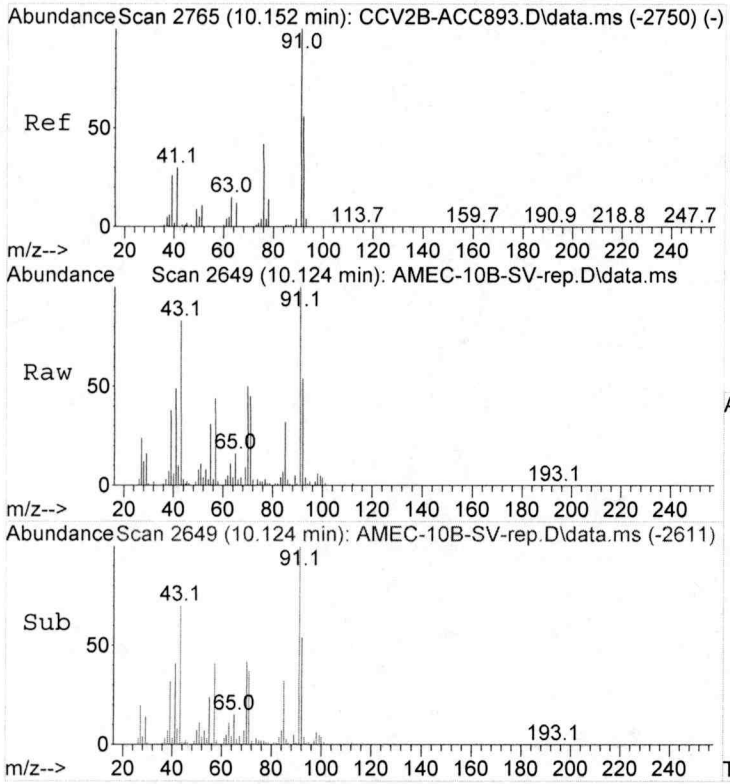


#49
2,2,4 Trimethylpentane
Concen: 1.902 ppbV
RT: 9.084 min Scan# 2276
Delta R.T. 0.009 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 57 Resp: 23891

Ion	Ratio	Lower	Upper
57	100		
99	5.3	7.0	10.4#

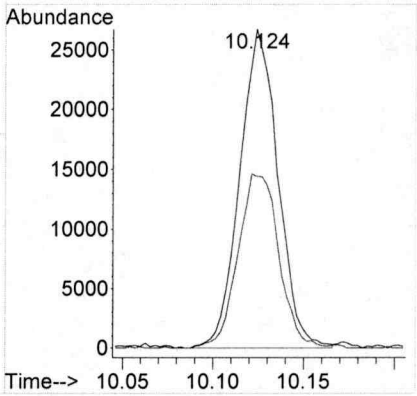


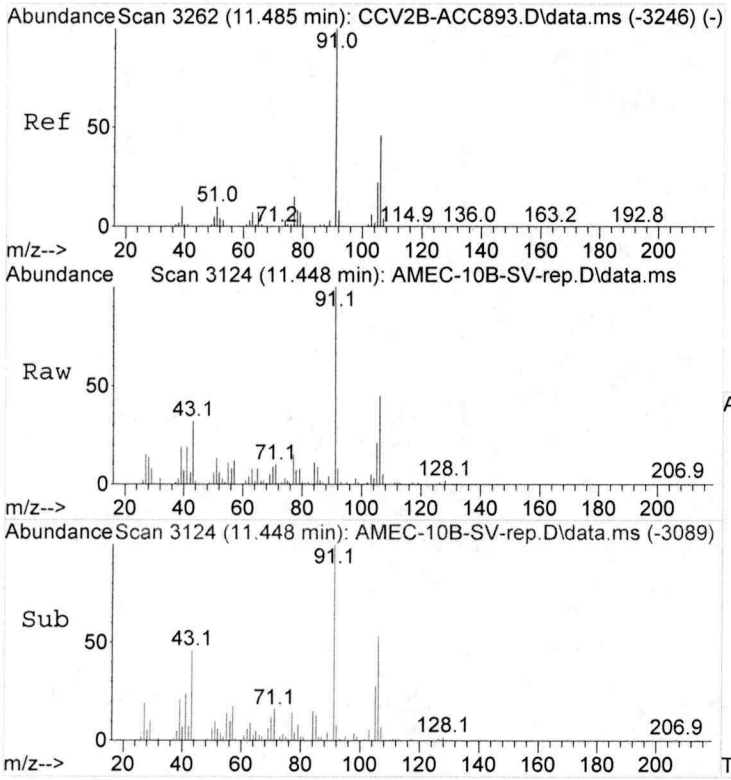


#56
Toluene
Concen: 2.893 ppbV
RT: 10.124 min Scan# 2649
Delta R.T. 0.006 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 91 Resp: 39090

Ion	Ratio	Lower	Upper
91	100		
92	58.3	28.5	88.5

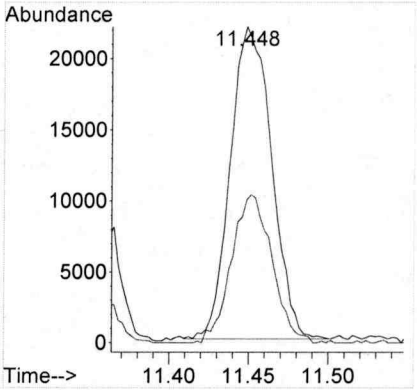


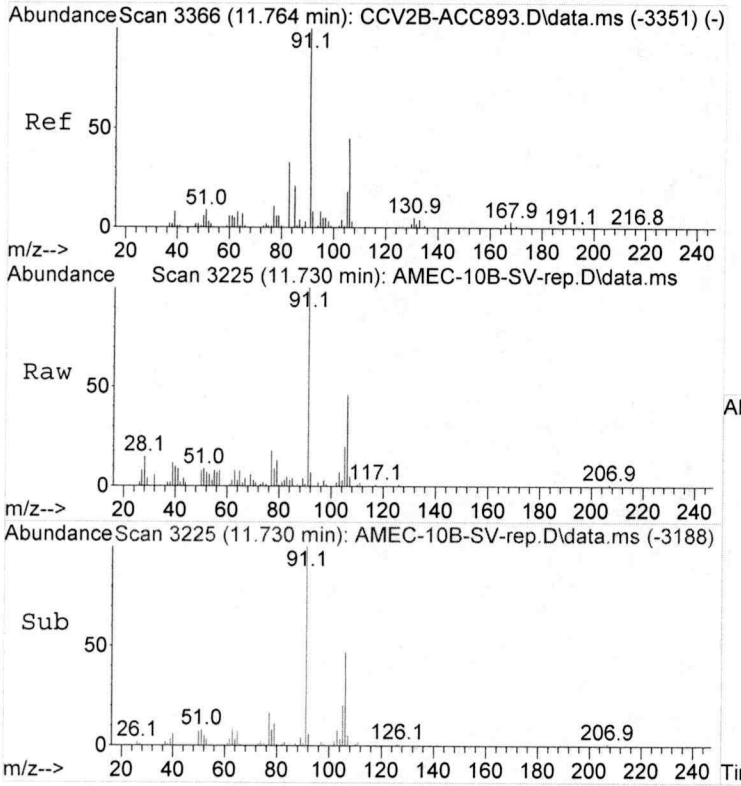


#66
m,p-Xylene
Concen: 2.622 ppbV
RT: 11.448 min Scan# 3124
Delta R.T. -0.002 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion: 91 Resp: 39758

Ion	Ratio	Lower	Upper
91	100		
106	46.3	16.6	76.6

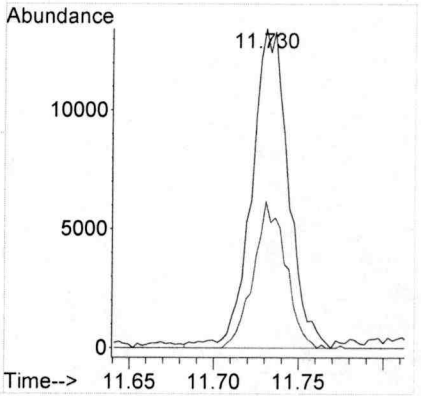


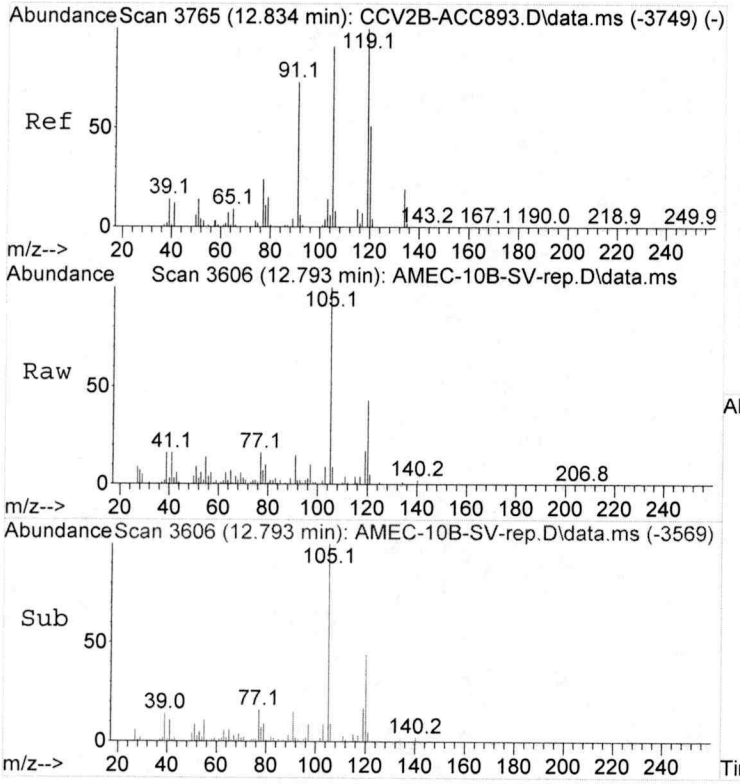


#70
o-Xylene
Concen: 1.219 ppbV
RT: 11.730 min Scan# 3225
Delta R.T. 0.003 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

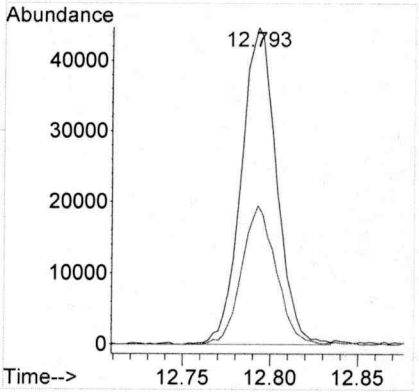
Tgt Ion: 91 Resp: 20192

Ion	Ratio	Lower	Upper
91	100		
106	40.2	13.1	73.1





#81
1,2,4-Trimethylbenzene
Concen: 2.566 ppbV
RT: 12.793 min Scan# 3606
Delta R.T. 0.004 min
Lab File: AMEC-10B-SV-rep.D
Acq: 20 Nov 2013 3:29 pm

Tgt Ion:105 Resp: 62680

Ion	Ratio	Lower	Upper
105	100		
120	42.3	22.2	82.2