Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032919\
Data File : VL033515.D
Acq On : 29 Mar 2019 23:35
Operator : SY/AP
Sample : K2042-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId :

Quant Time: Mar 30 01:13:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.76	49	824348	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.29	114	1887375	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.24	117	1941779	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.58	95	1488389	9.78	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.08	85	29451	0.24	ppbv		95
3) Chlorodifluoromethane	2.99	51	2028935	21.38	ppbv	#	58
4) Chloromethane	3.17	50	28883	0.58	ppbv		99
5) Vinyl Chloride	3.28	62	1633	0.03	ppbv		96
7) Chloroethane	3.60	64	15827	0.86	ppbv		91
9) Propene	3.24	41	154778	3.88	ppbv		98
10) Heptane	8.24	43	12989	0.12	ppbv	#	27
11) Trichlorofluoromethane	4.00	101	19707	0.13	ppbv		87
12) 1,1,2-Trichlorotrifluoroet	4.55	101	7878	0.08	ppbv		97
13) Ethanol	3.66	45	3667598	355.61	ppbv		65
15) Acetone	3.90	43	1351290	13.63	ppbv		97
16) 1,3-Butadiene	3.34	39	35419	0.90	ppbv	#	17
17) tert-Butyl alcohol	4.37	59	38006	2.09	ppbv	#	94
19) Isopropyl Alcohol	4.04	45	227375	3.63	ppbv	#	1
20) Methylene Chloride	4.41	84	226254	5.38	ppbv		95
21) Allyl Chloride	4.43	41	2735	0.04	ppbv	#	1
23) Vinyl Acetate	5.15	43	20964	0.15	ppbv	#	28
25) Ethyl Acetate	5.77	43	234612	1.28	ppbv	#	85
26) Hexane	5.78	57	308032	3.77	ppbv	#	41
27) Carbon Disulfide	4.62	76	3768	0.04	ppbv	#	1
29) Chloroform	5.84	83	23637	0.17	ppbv		100
30) Cyclohexane	7.24	84	2132	0.03	ppbv	#	1
31) cis-1,2-Dichloroethene	5.64	61	8247	0.10	ppbv	#	84
34) 2-Butanone	5.33	43	108519	0.96	ppbv		98
35) Carbon Tetrachloride	7.13	117	11082	0.08	ppbv	#	95
36) Benzene	7.00	78	70400	0.44	ppbv		97
38) Trichloroethene	7.96	130	101636	1.71	ppbv		92
39) 1,2-Dichloropropane	7.29	63	498722	8.04	ppbv	#	23
44) 2,2,4-Trimethylpentane	7.99	57	59644	0.22	ppbv	#	70
50) 4-Methyl-2-Pentanone	8.88	43	8580	0.05	ppbv	#	79
52) Tetrachloroethene	11.37	164	2726	0.05	ppbv	#	90
53) Toluene	9.94	91	920621	5.00	ppbv		99
58) Ethyl Benzene	12.87	91	9092	0.04	ppbv		98
59) m/p-Xylene	13.15	91	19997	0.09	ppbv	#	100
60) o-Xylene	13.85	91	28538	0.13	ppbv		99
62) Isopropylbenzene	14.82	105	13586	0.04	ppbv		94
74) 1,2,4-Trimethylbenzene	16.93	105	16224	0.06	ppbv	#	73

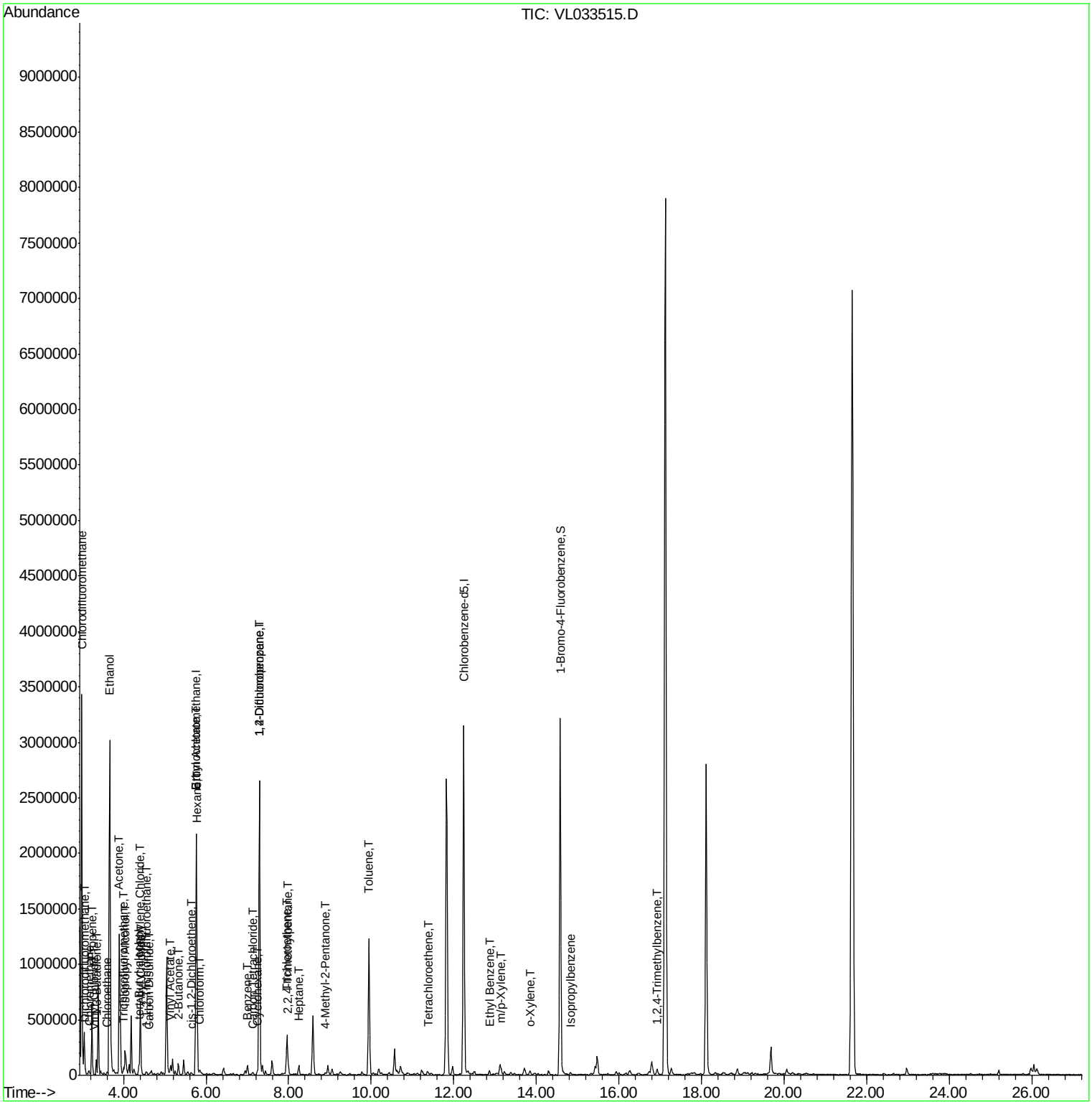
(#) = qualifier out of range (m) = manual integration (+) = signals summed

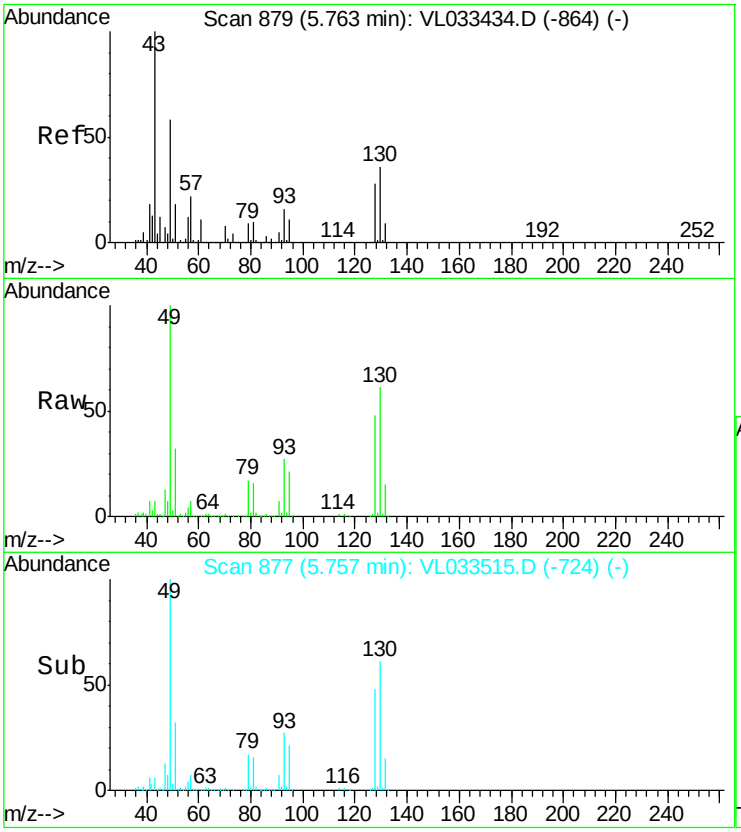
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032919\
Data File : VL033515.D
Acq On : 29 Mar 2019 23:35
Operator : SY/AP
Sample : K2042-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Mar 30 01:13:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration



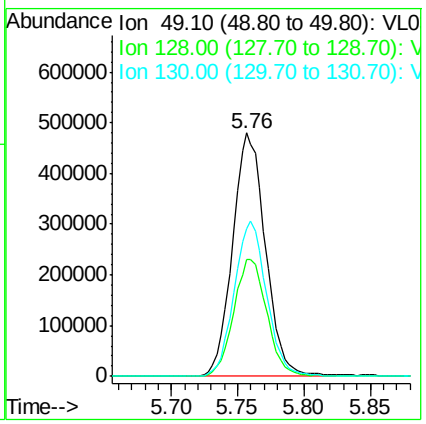


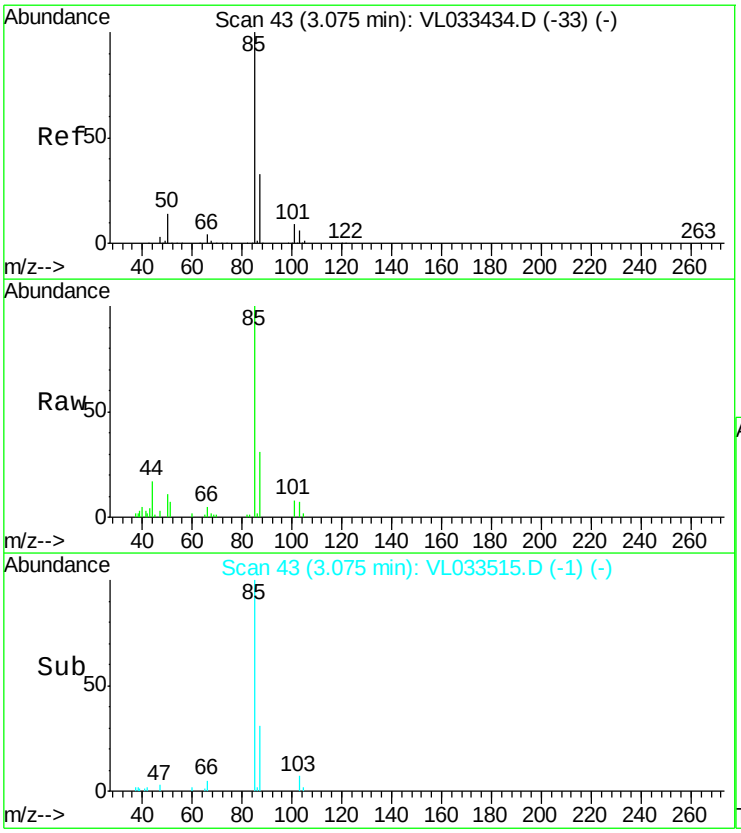
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 824348

Ion	Ratio	Lower	Upper
49	100		
128	48.7	24.0	72.0
130	63.2	31.2	93.6

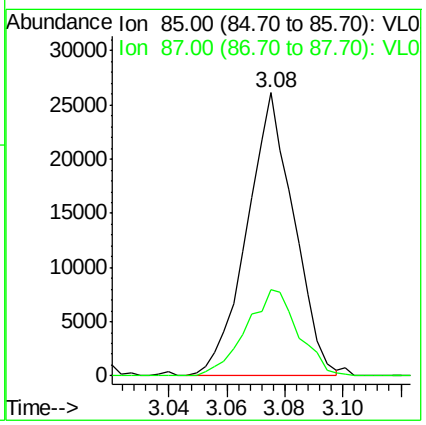


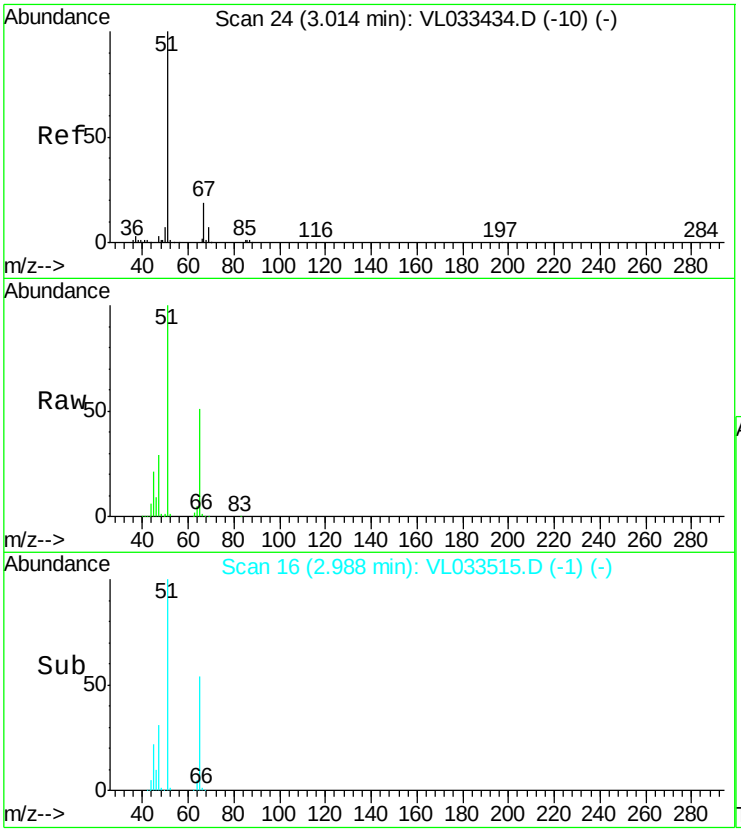


#2
Dichlorodifluoromethane
Concen: 0.24 ppbv
RT: 3.08 min Scan# 43
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 85 Resp: 29451

Ion	Ratio	Lower	Upper
85	100		
87	30.7	26.7	40.1



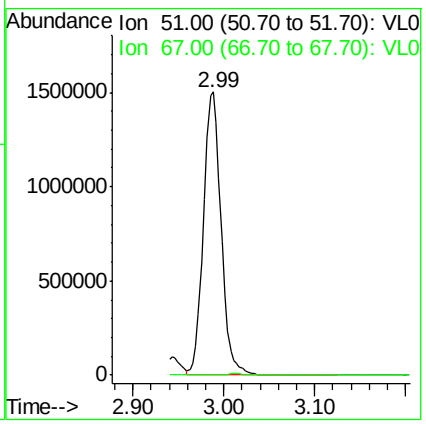


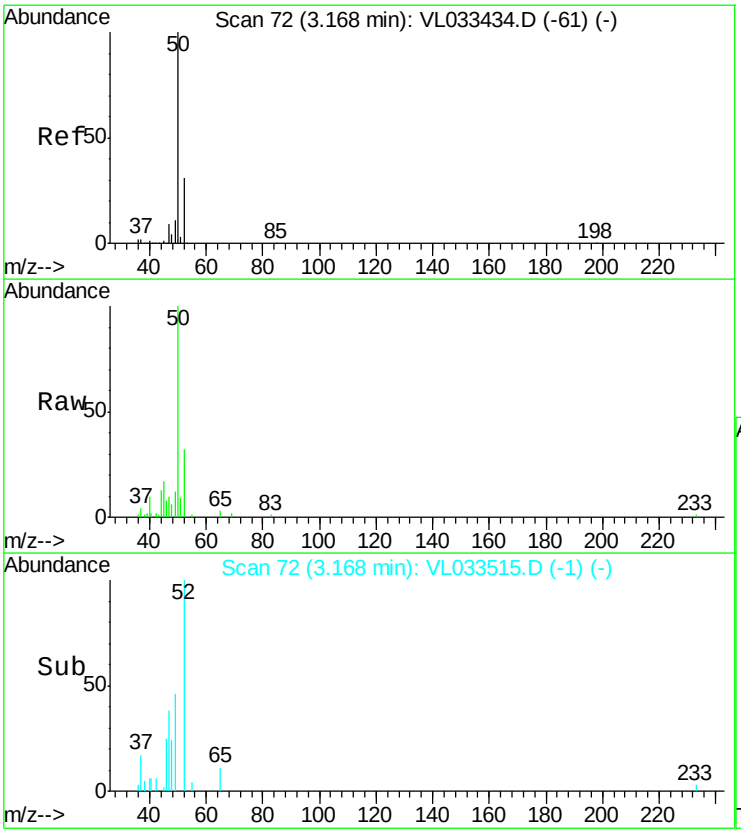
#3
Chlorodifluoromethane
Concen: 21.38 ppbv
RT: 2.99 min Scan# 16
Delta R.T. -0.03 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 2028935

Ion	Ratio	Lower	Upper
51	100		
67	0.5	15.7	23.5#

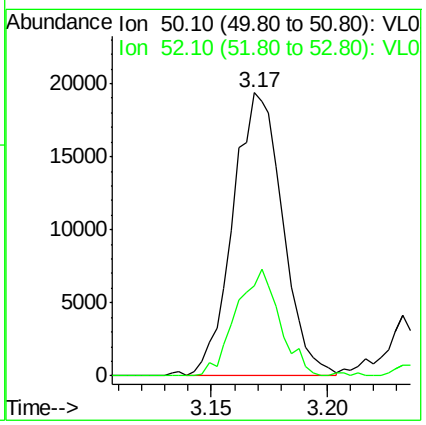


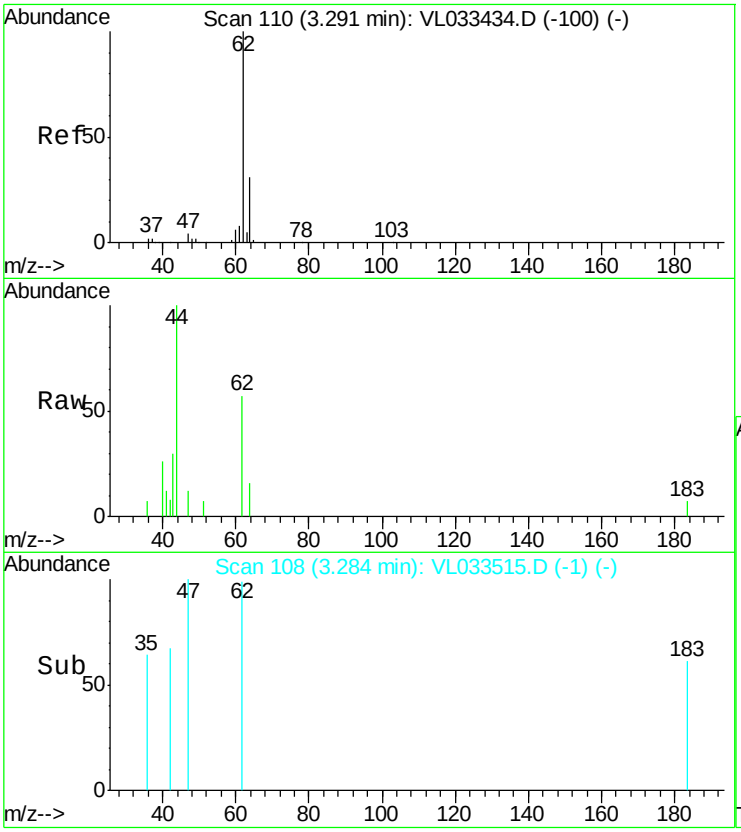


#4
Chloromethane
Concen: 0.58 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 50 Resp: 28883

Ion	Ratio	Lower	Upper
50	100		
52	32.0	25.0	37.6



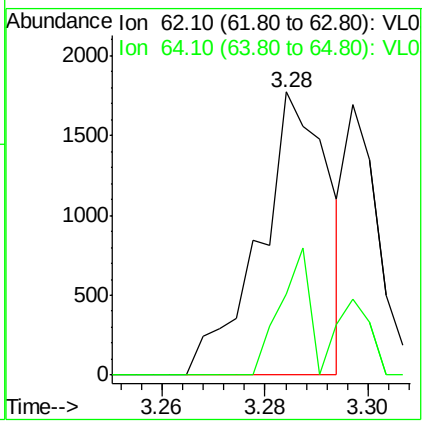


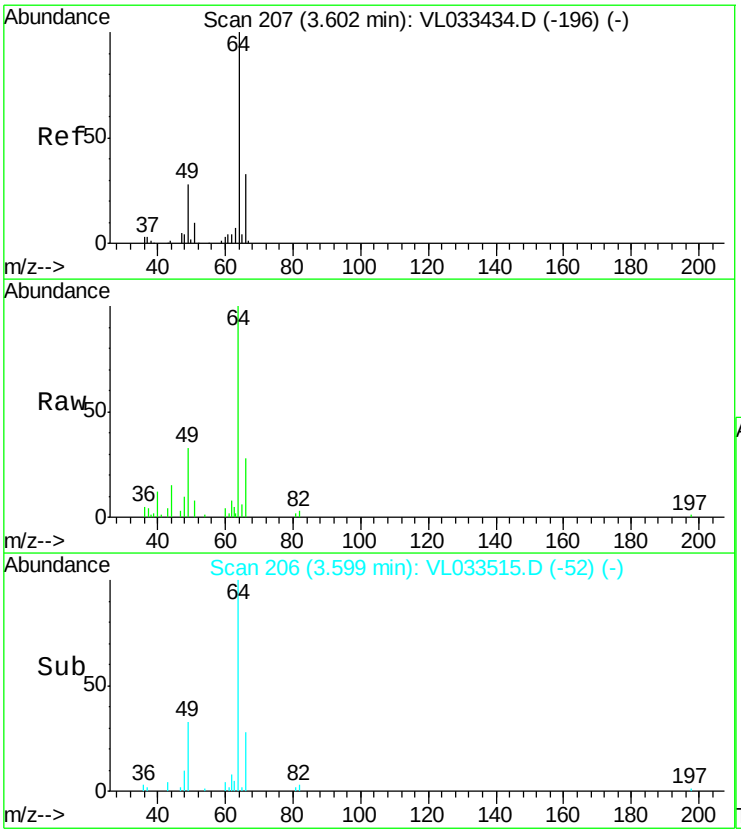
#5
Vinyl Chloride
Concen: 0.03 ppbv
RT: 3.28 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 62 Resp: 1633

Ion	Ratio	Lower	Upper
62	100		
64	28.8	24.9	37.3

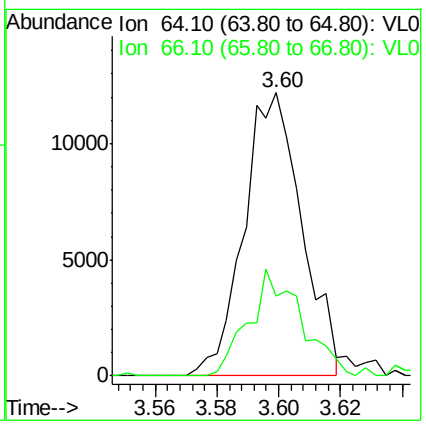


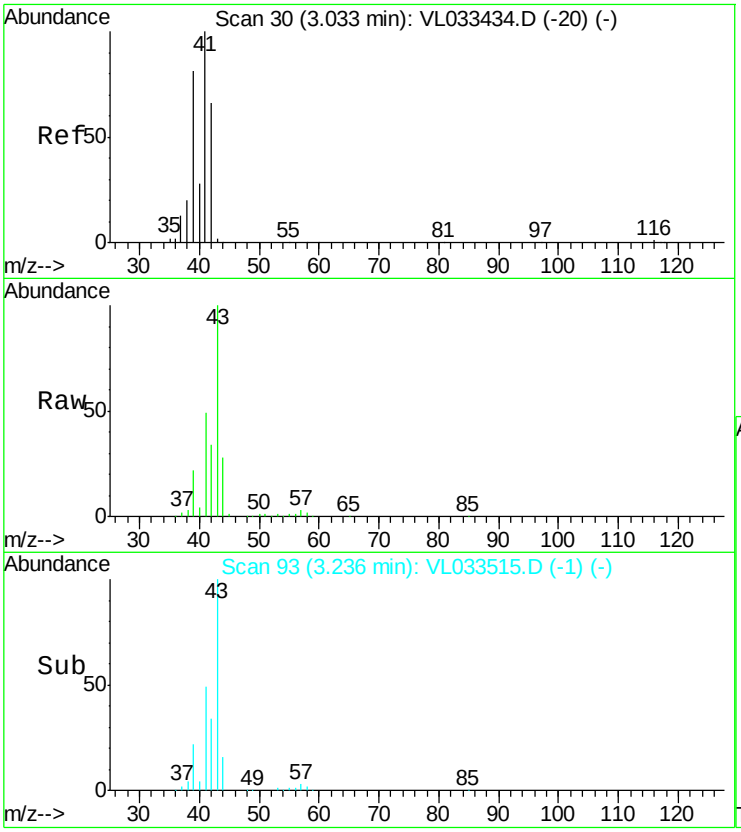


#7
Chloroethane
Concen: 0.86 ppbv
RT: 3.60 min Scan# 206
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 64 Resp: 15827

Ion	Ratio	Lower	Upper
64	100		
66	28.1	26.7	40.1



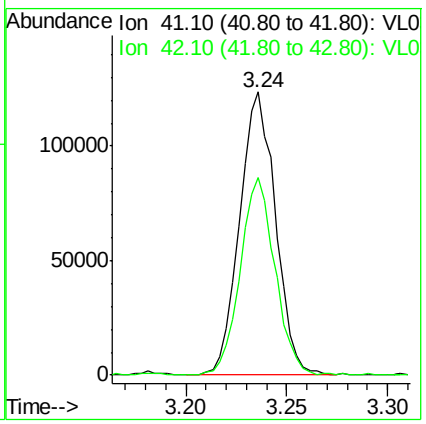


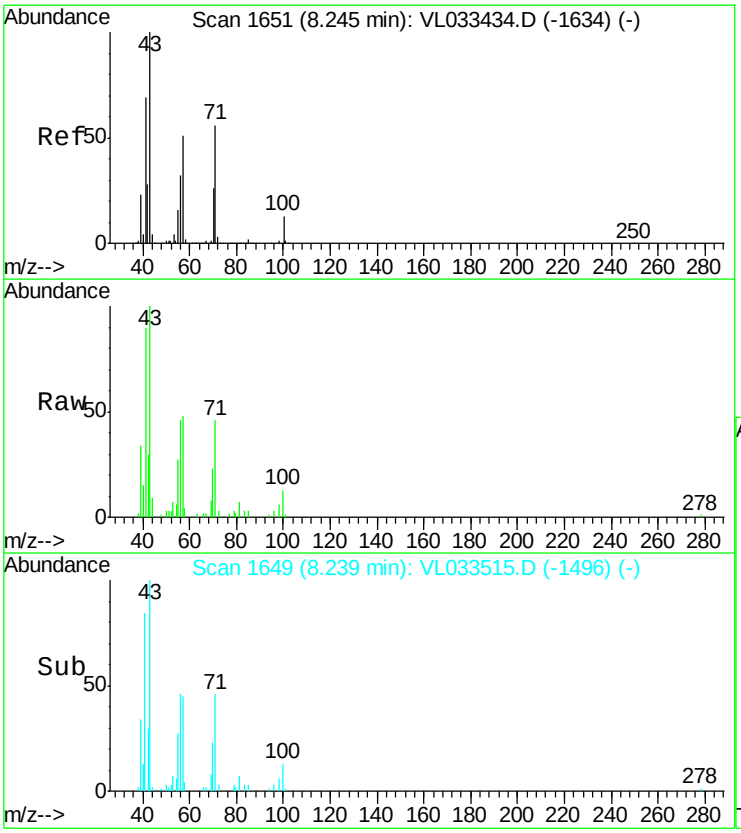
#9
Propene
Concen: 3.88 ppbv
RT: 3.24 min Scan# 93
Delta R.T. 0.20 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 41 Resp: 154778

Ion	Ratio	Lower	Upper
41	100		
42	68.7	53.9	80.9

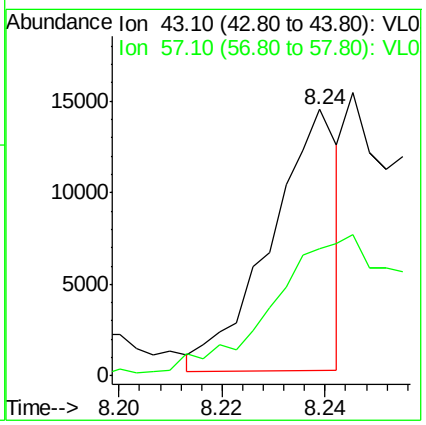


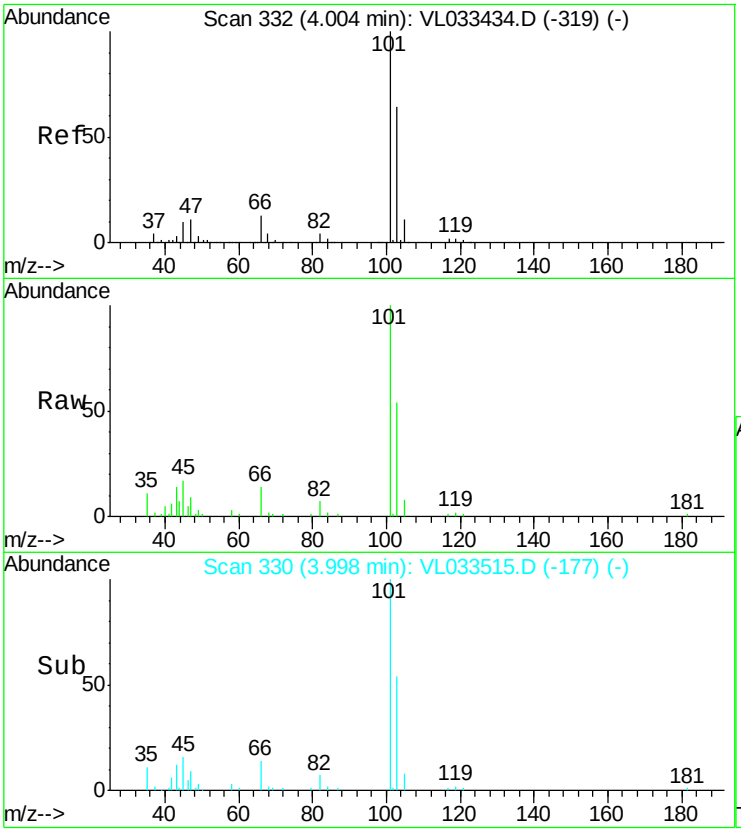


#10
Heptane
Concen: 0.12 ppbv
RT: 8.24 min Scan# 1649
Delta R.T. -0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 43 Resp: 12989

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.6	60.8#



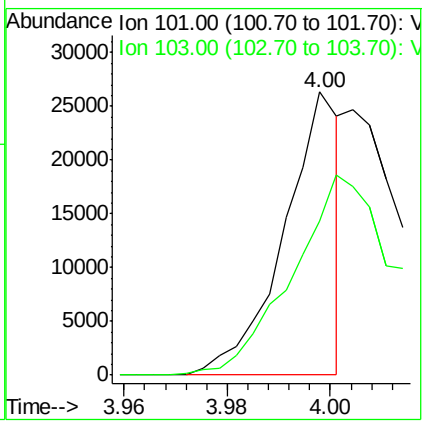


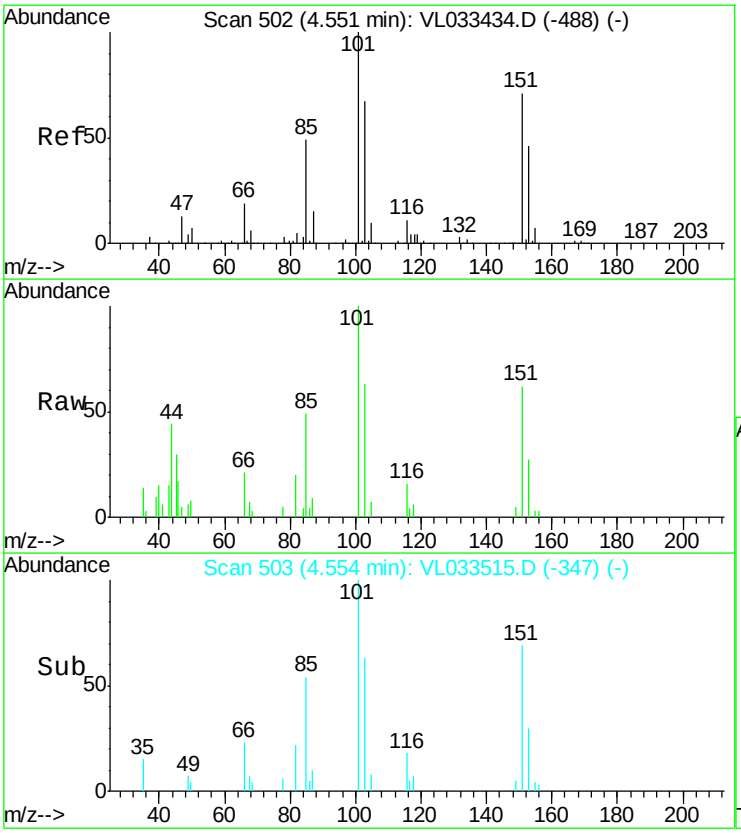
#11
Trichlorofluoromethane
Concen: 0.13 ppbv
RT: 4.00 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion:101 Resp: 19707

Ion	Ratio	Lower	Upper
101	100		
103	53.6	51.3	76.9

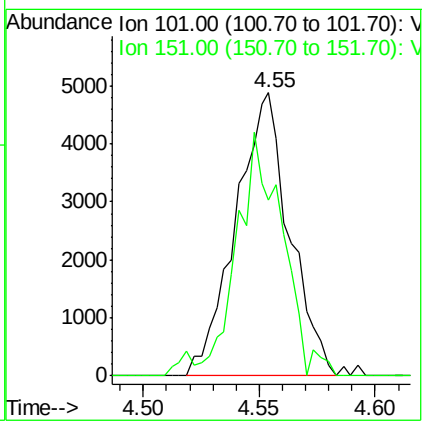


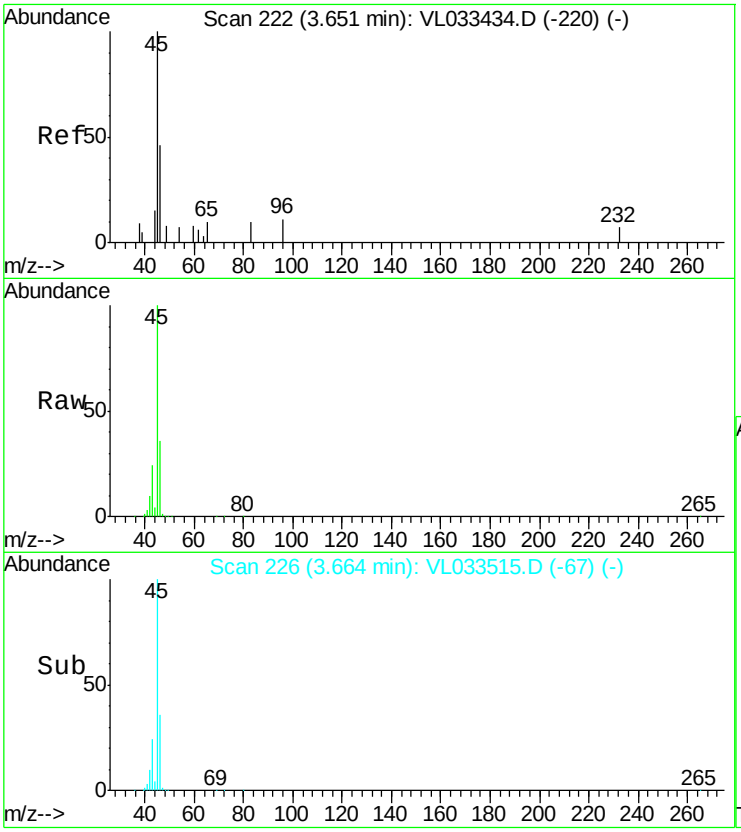


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.08 ppbv
RT: 4.55 min Scan# 503
Delta R.T. 0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion:101 Resp: 7878

Ion	Ratio	Lower	Upper
101	100		
151	74.5	57.7	86.5



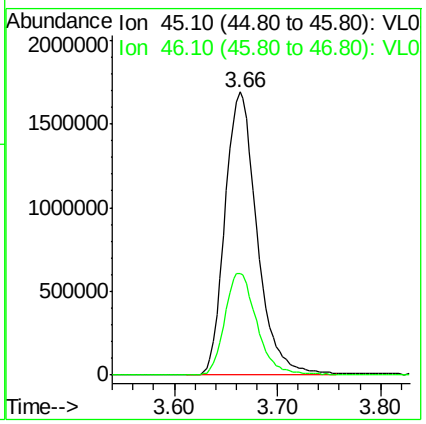


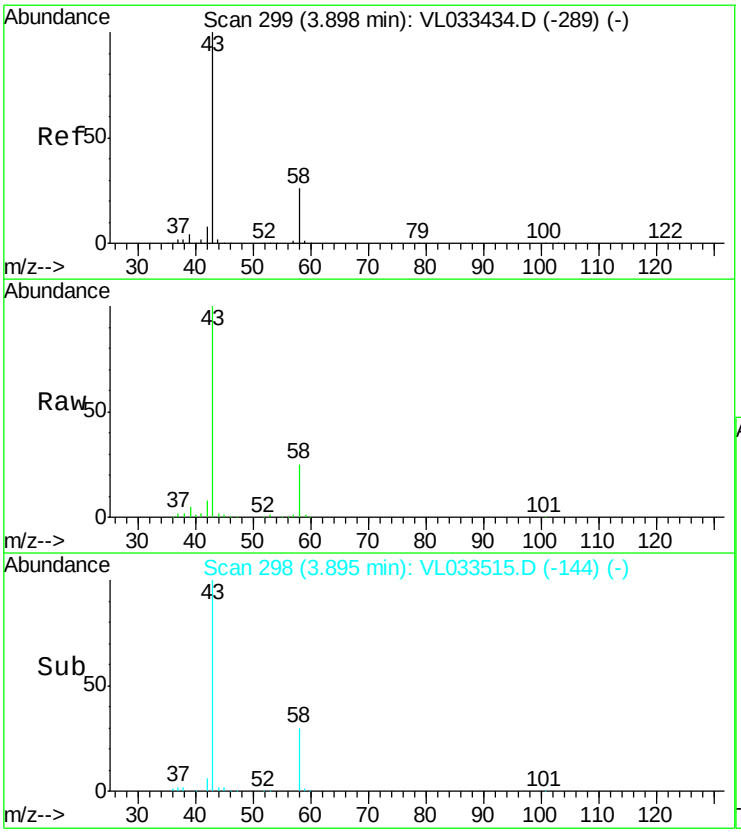
#13
Ethanol
Concen: 355.61 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 45 Resp: 3667598

Ion	Ratio	Lower	Upper
45	100		
46	36.2	25.4	101.8

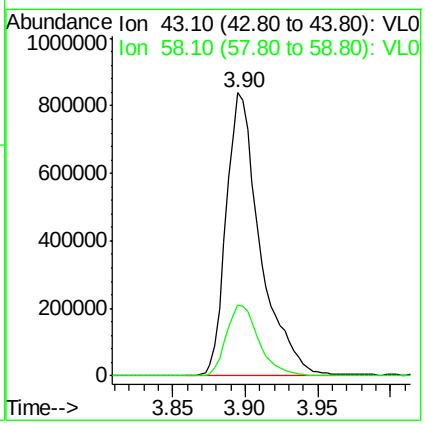


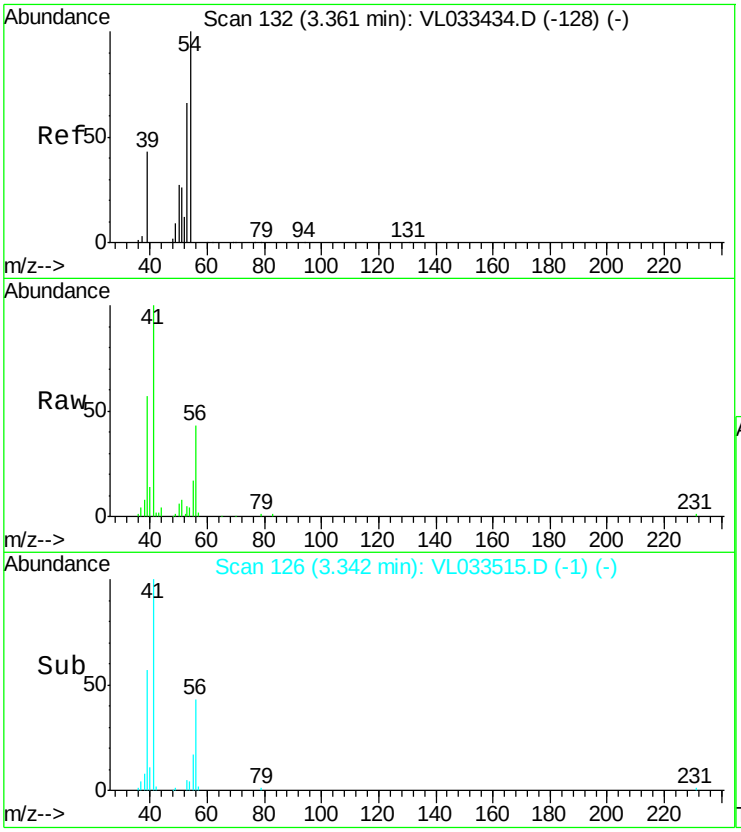


#15
Acetone
Concen: 13.63 ppbv
RT: 3.90 min Scan# 298
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 43 Resp: 1351290

Ion	Ratio	Lower	Upper
43	100		
58	24.3	20.5	30.7



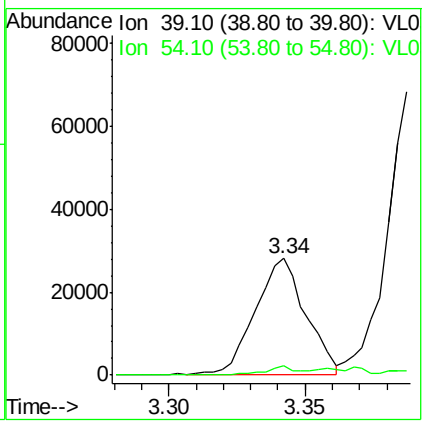


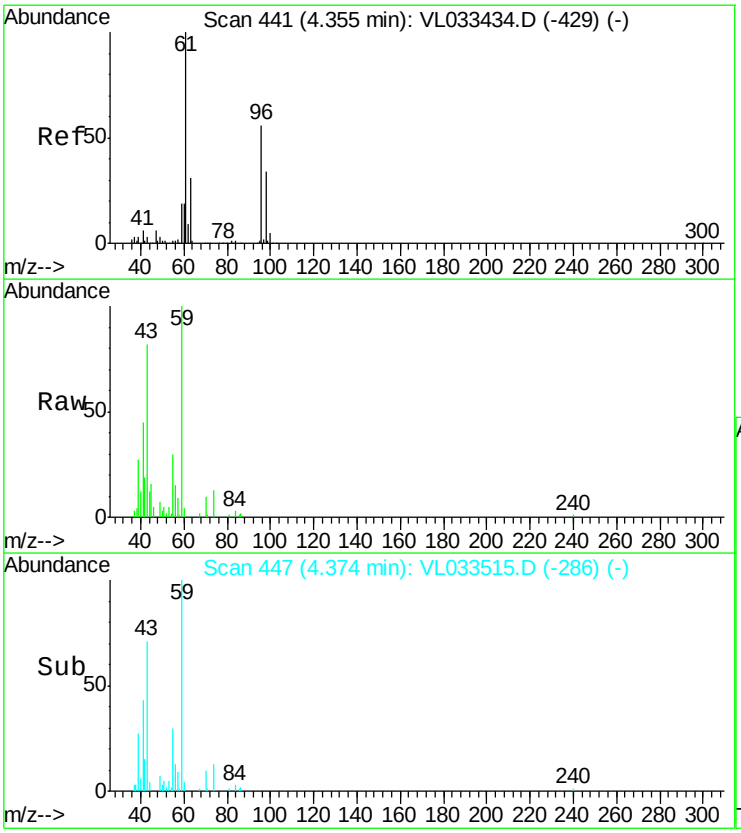
#16
1,3-Butadiene
Concen: 0.90 ppbv
RT: 3.34 min Scan# 126
Delta R.T. -0.02 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 39 Resp: 35419

Ion	Ratio	Lower	Upper
39	100		
54	10.3	69.4	104.2#

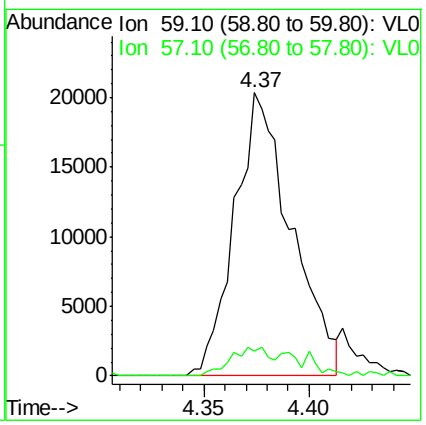


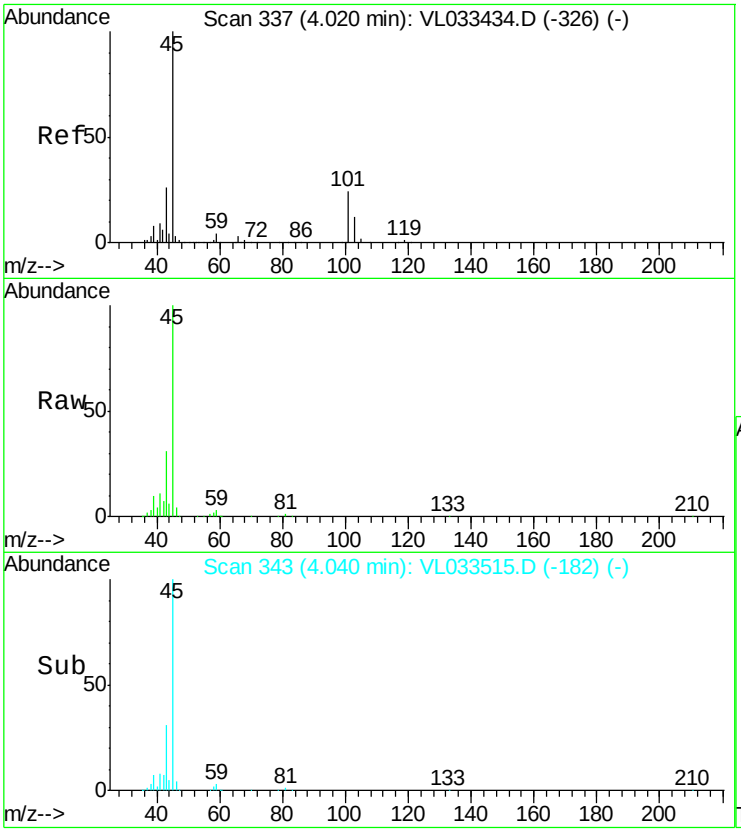


#17
tert-Butyl alcohol
Concen: 2.09 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 59 Resp: 38006

Ion	Ratio	Lower	Upper
59	100		
57	12.1	7.8	11.8#



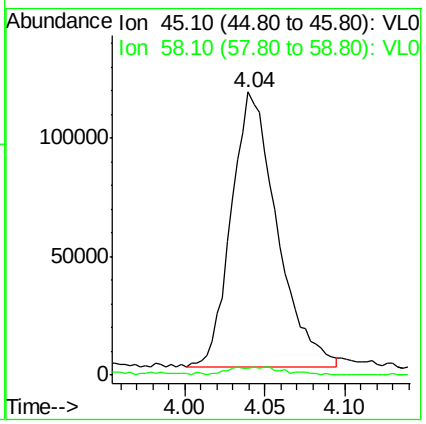


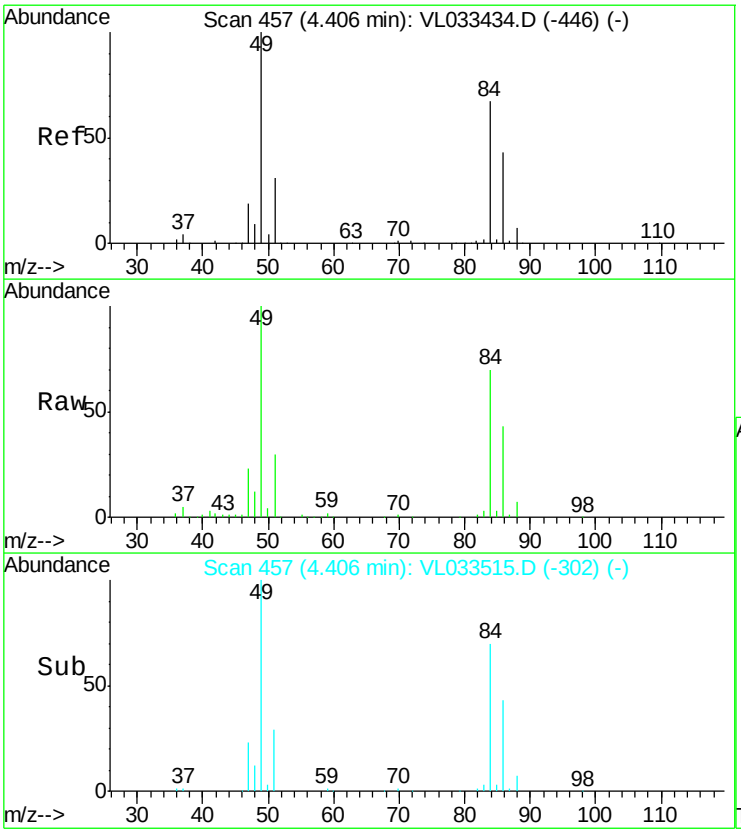
#19
Isopropyl Alcohol
Concen: 3.63 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 45 Resp: 227375

Ion	Ratio	Lower	Upper
45	100		
58	144.5	1.4	2.2#

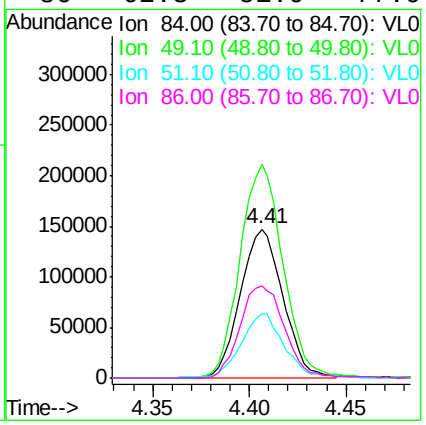


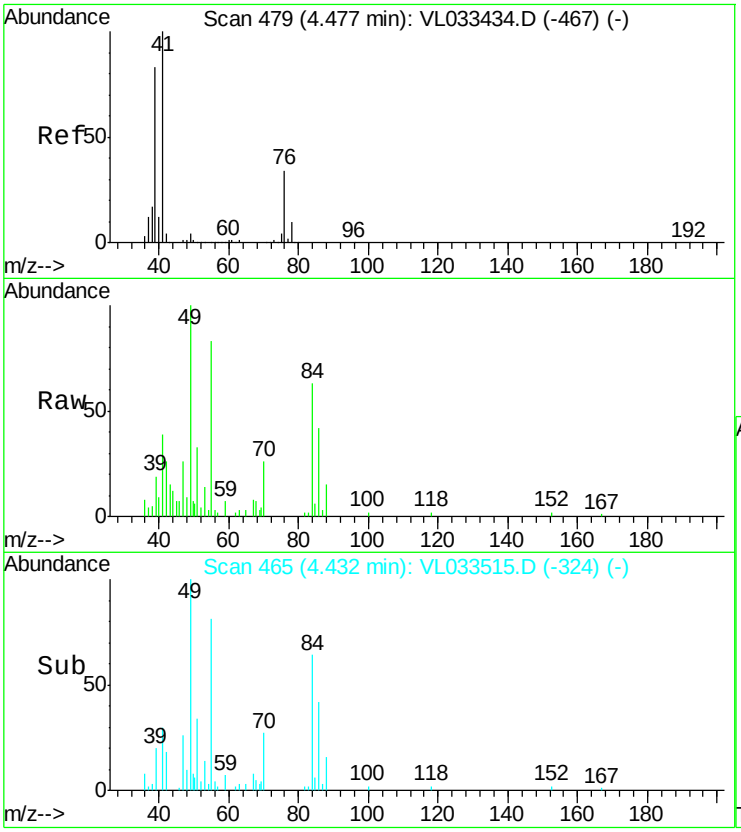


#20
Methylene Chloride
Concen: 5.38 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 84 Resp: 226254

Ion	Ratio	Lower	Upper
84	100		
49	143.3	120.0	180.0
51	42.0	36.7	55.1
86	62.3	51.9	77.9



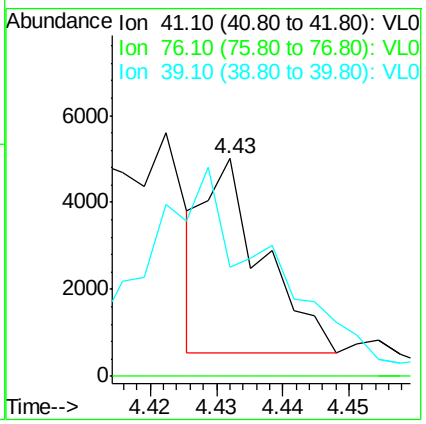


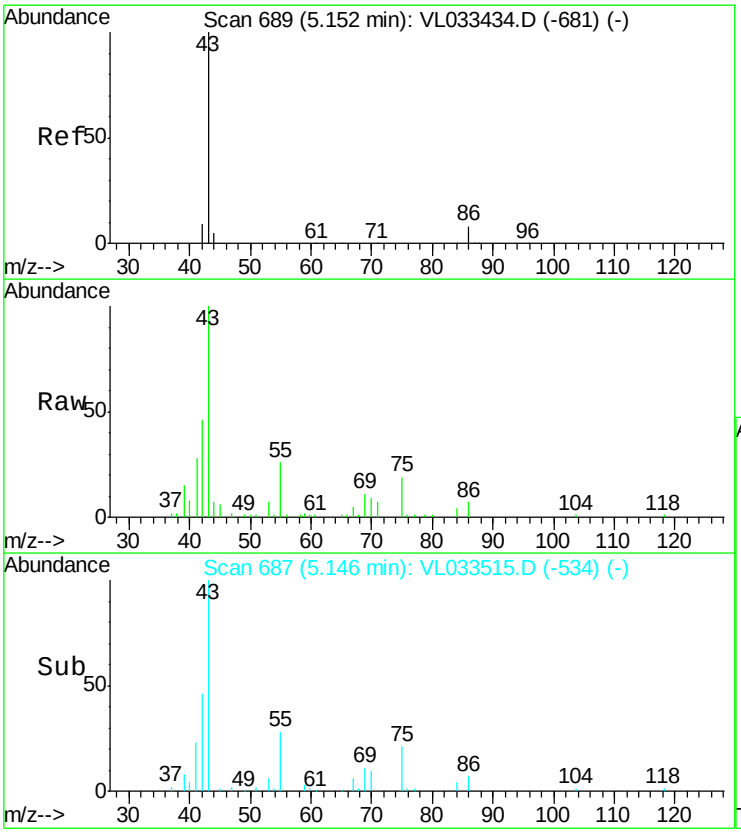
#21
Allvl Chloride
Concen: 0.04 ppbv
RT: 4.43 min Scan# 465
Delta R.T. -0.05 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 41 Resp: 2735

Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.4	38.2#
39	194.9	65.3	97.9#

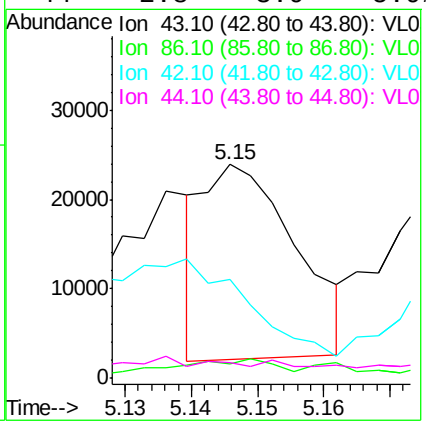


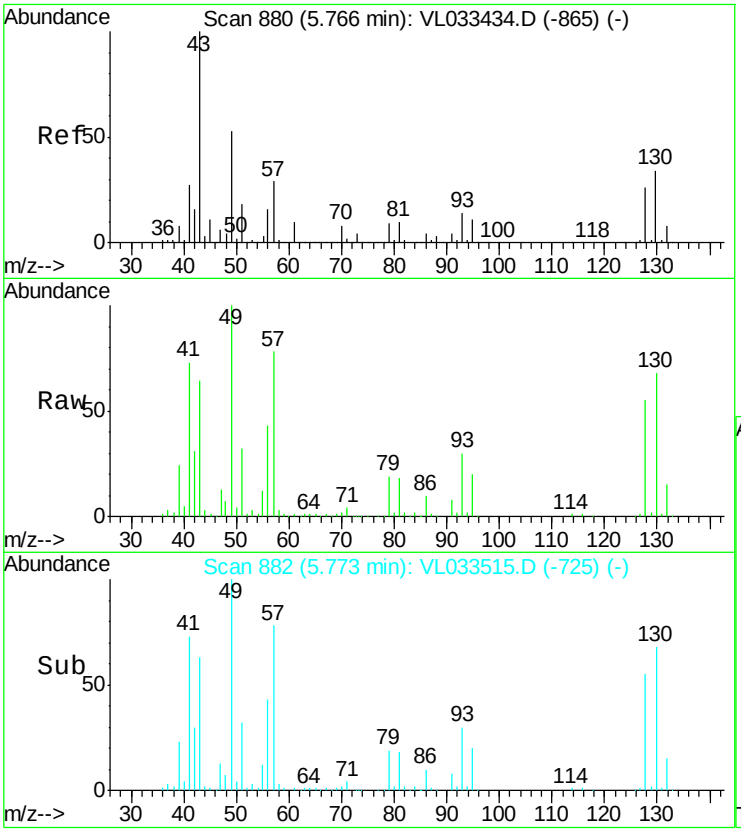


#23
Vinyl Acetate
Concen: 0.15 ppbv
RT: 5.15 min Scan# 687
Delta R.T. -0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 43 Resp: 20964

Ion	Ratio	Lower	Upper
43	100		
86	1.5	5.6	8.4#
42	63.4	8.0	12.0#
44	2.8	3.9	5.9#



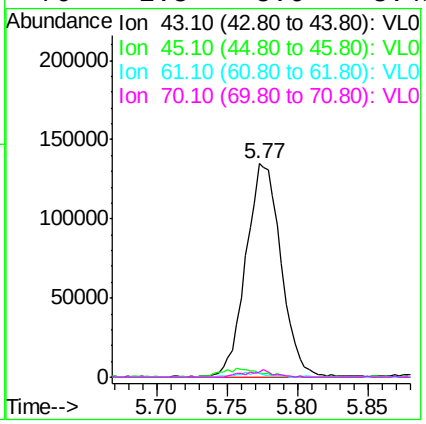


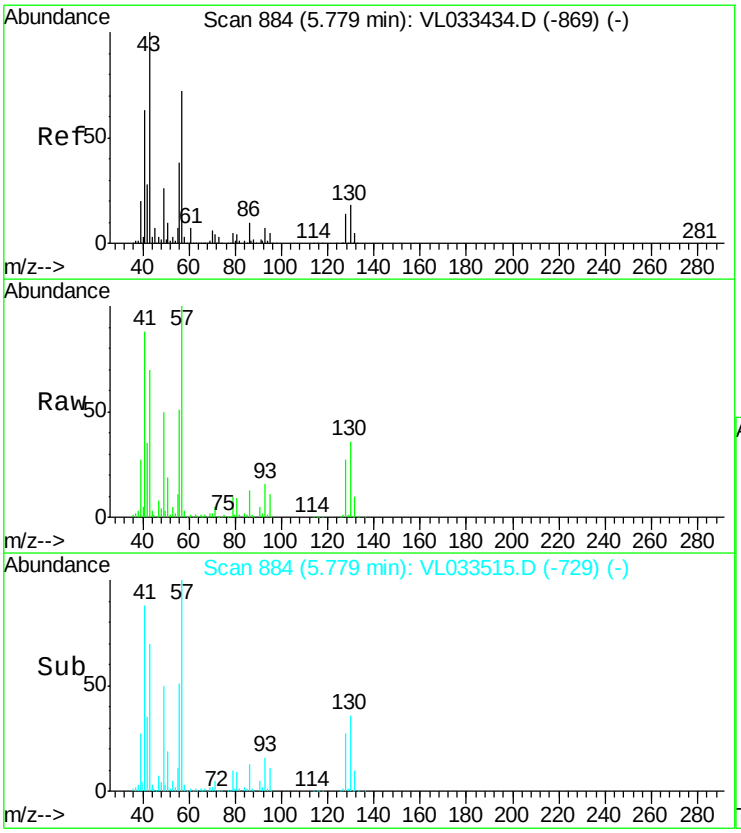
#25
Ethyl Acetate
Concen: 1.28 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 234612

Ion	Ratio	Lower	Upper
43	100		
45	4.7	7.8	11.6#
61	2.1	7.3	10.9#
70	2.8	5.6	8.4#

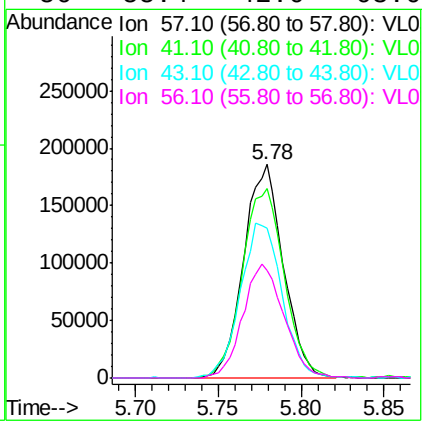


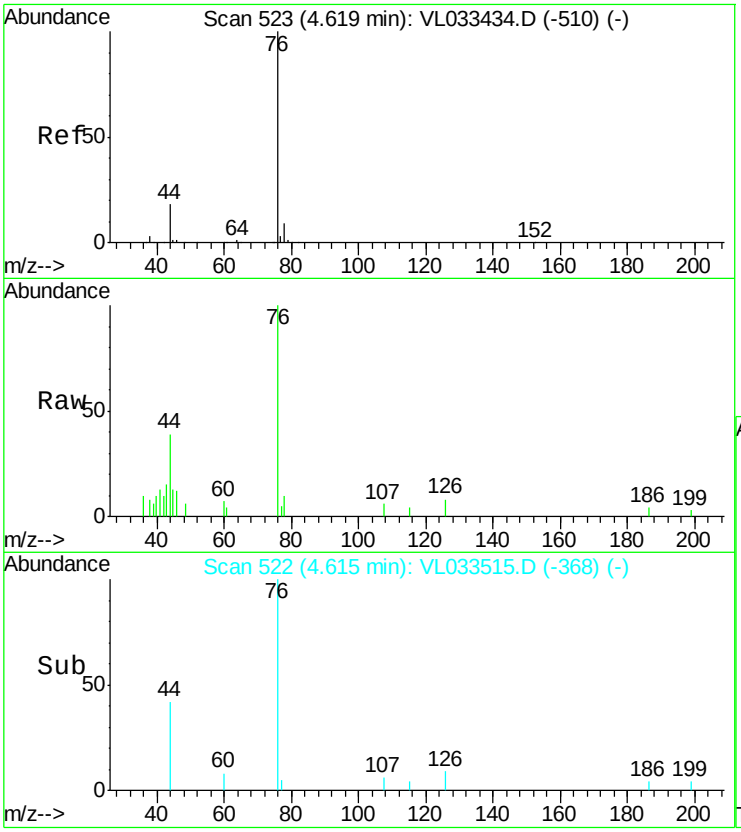


#26
Hexane
Concen: 3.77 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 57 Resp: 308032

Ion	Ratio	Lower	Upper
57	100		
41	94.5	70.7	106.1
43	77.0	182.6	274.0#
56	55.4	42.0	63.0



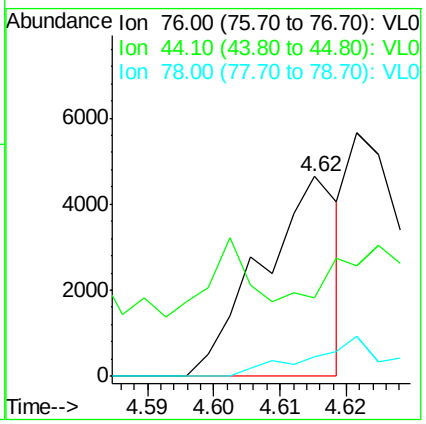


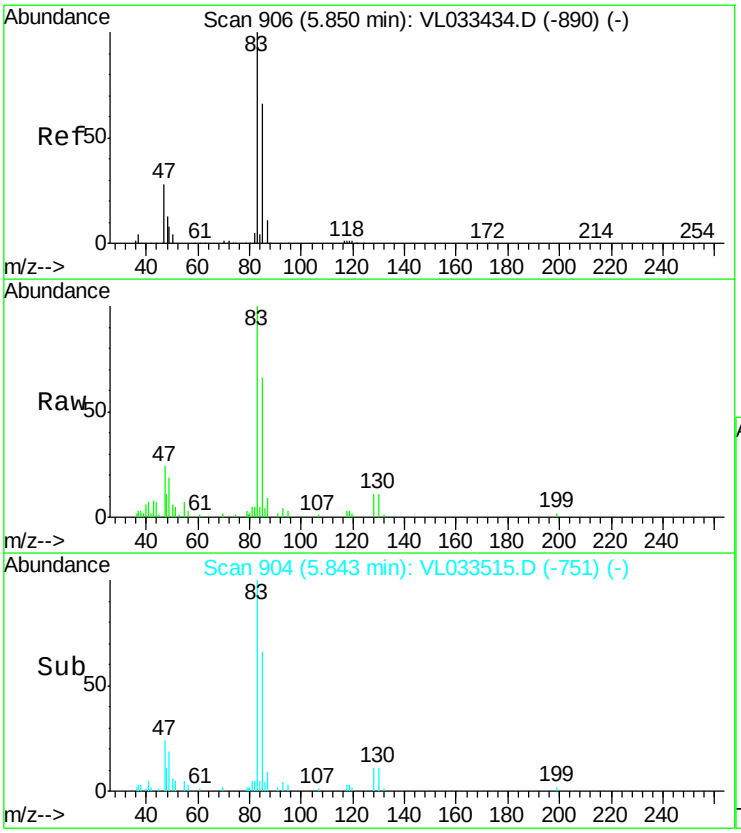
#27
Carbon Disulfide
Concen: 0.04 ppbv
RT: 4.62 min Scan# 522
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 76 Resp: 3768

Ion	Ratio	Lower	Upper
76	100		
44	182.0	14.8	22.2#
78	0.0	7.6	11.4#

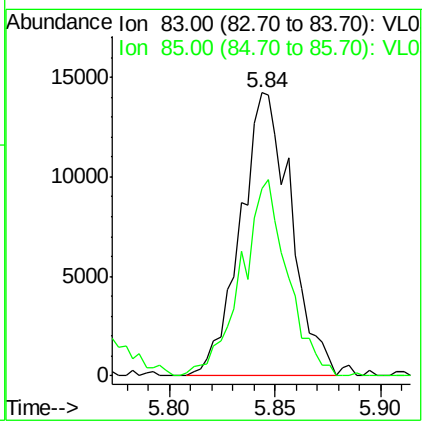


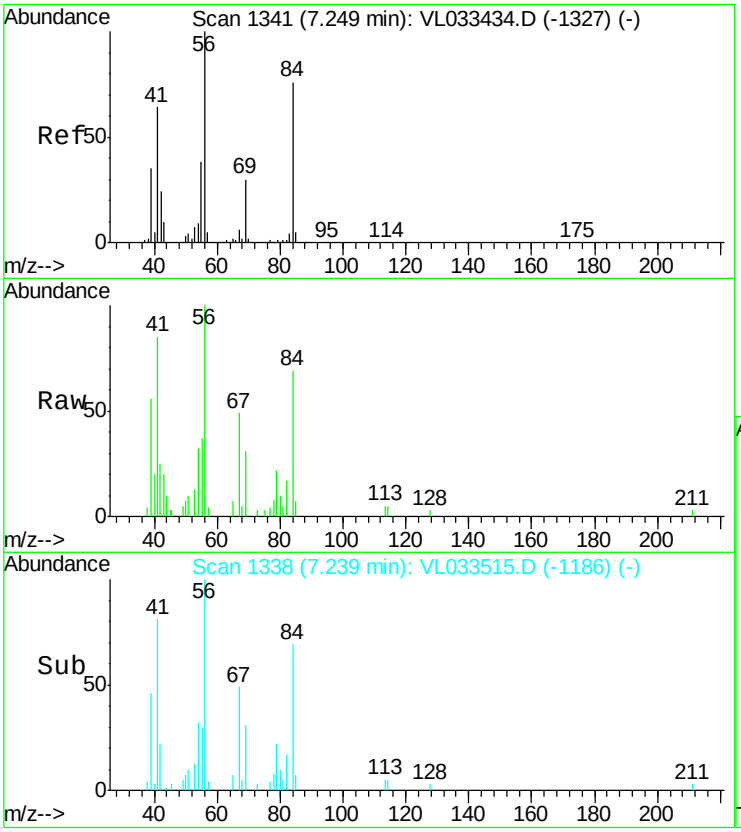


#29
Chloroform
Concen: 0.17 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 83 Resp: 23637

Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.6	79.0



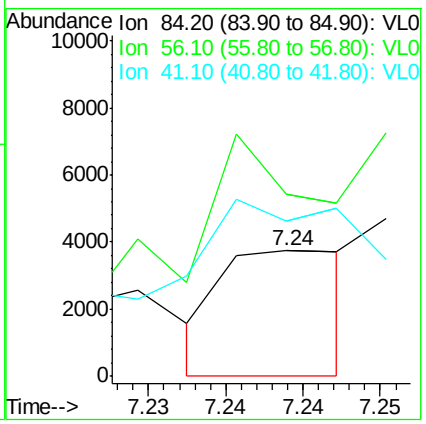


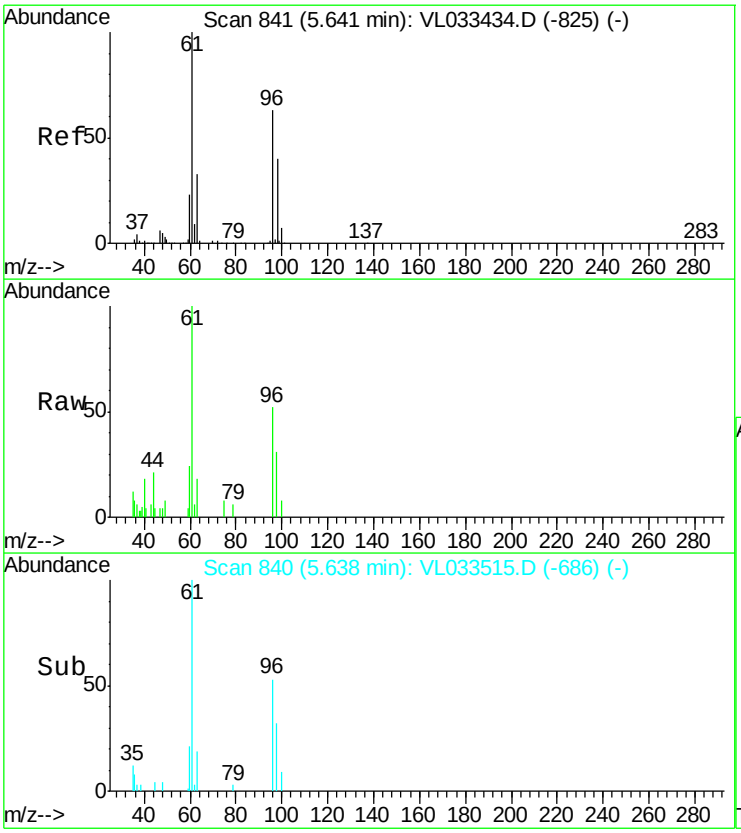
#30
Cyclohexane
Concen: 0.03 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 2132

Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.7	164.5#
41	598.1	68.2	102.2#

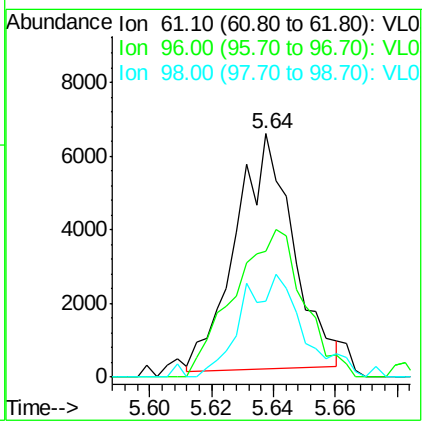


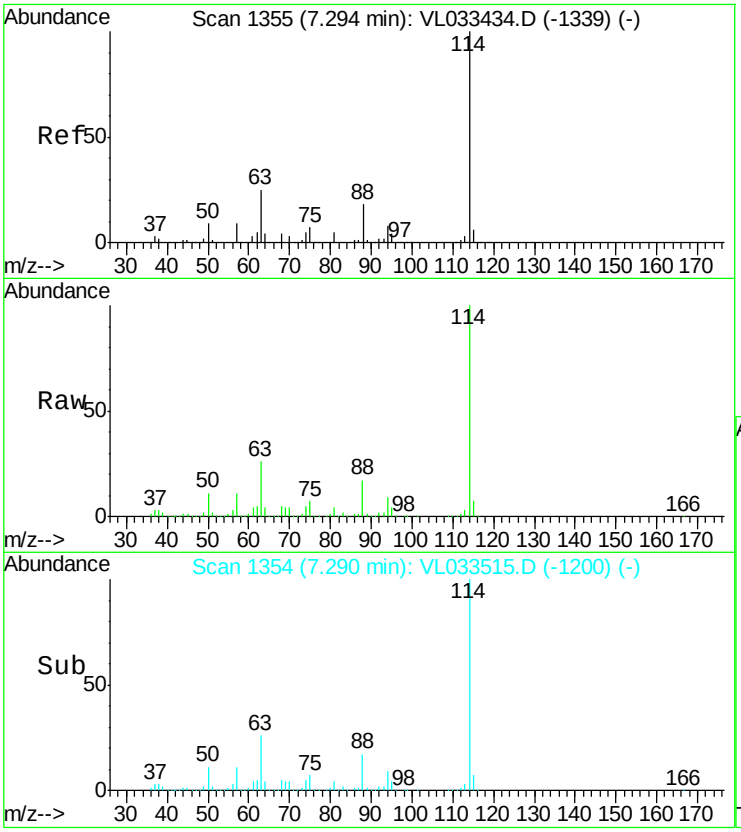


#31
cis-1,2-Dichloroethene
Concen: 0.10 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 61 Resp: 8247

Ion	Ratio	Lower	Upper
61	100		
96	50.9	50.6	76.0
98	30.9	32.2	48.2#



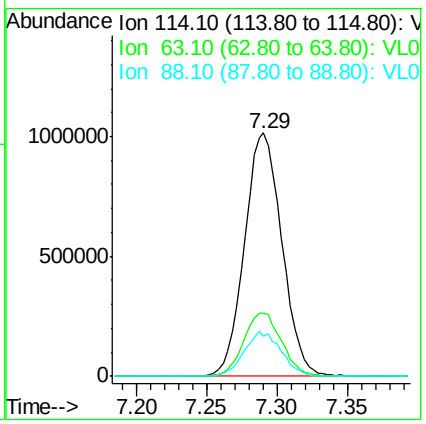


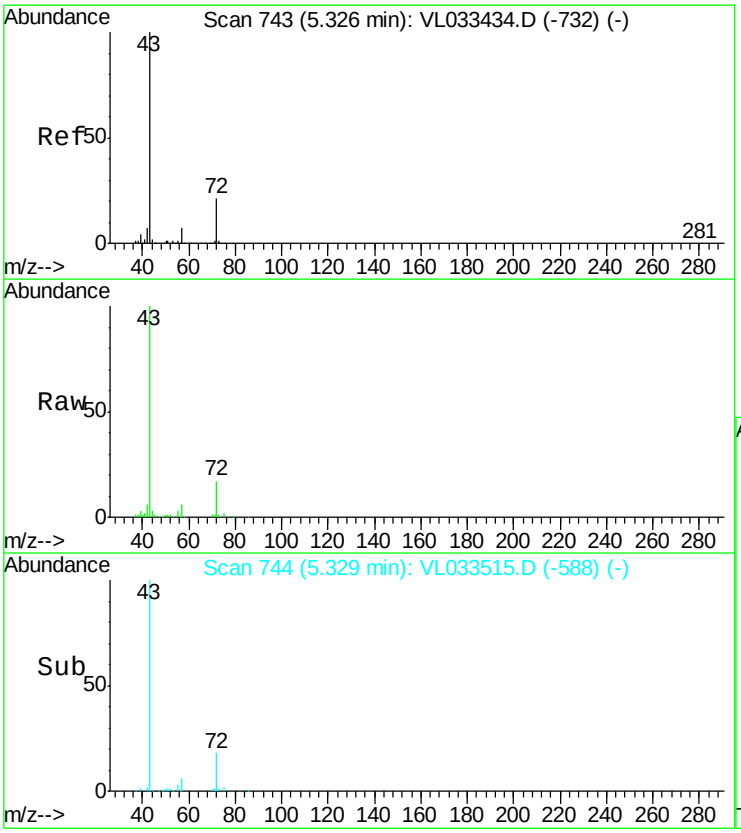
#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:114 Resp: 1887375

Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.5	32.3
88	18.1	14.5	21.7

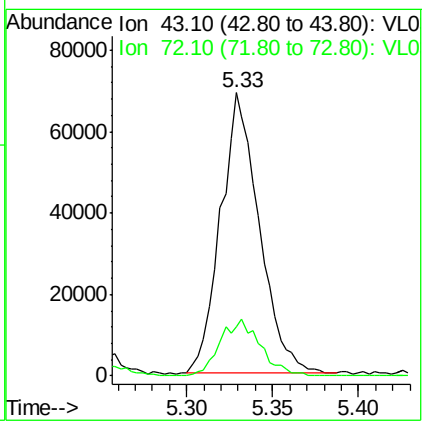


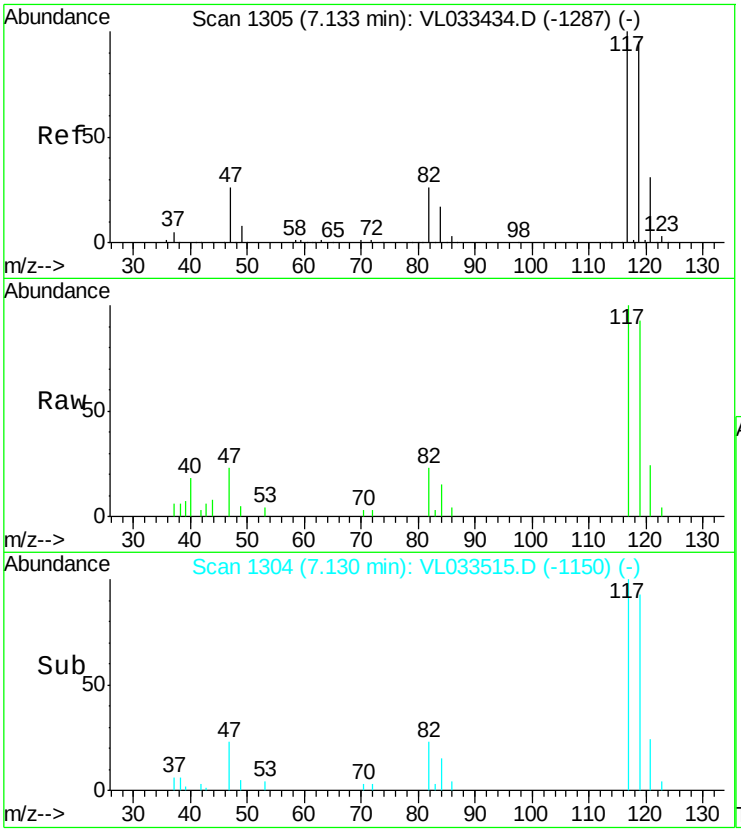


#34
2-Butanone
Concen: 0.96 ppbv
RT: 5.33 min Scan# 744
Delta R.T. 0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 43 Resp: 108519

Ion	Ratio	Lower	Upper
43	100		
72	21.0	17.4	26.2



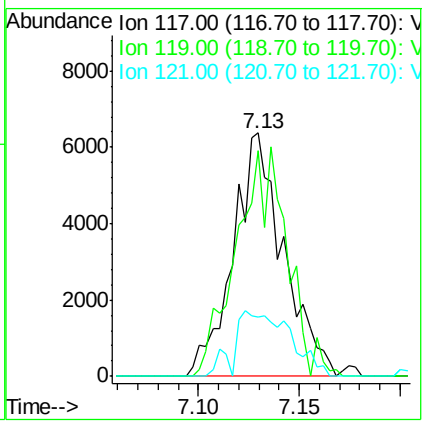


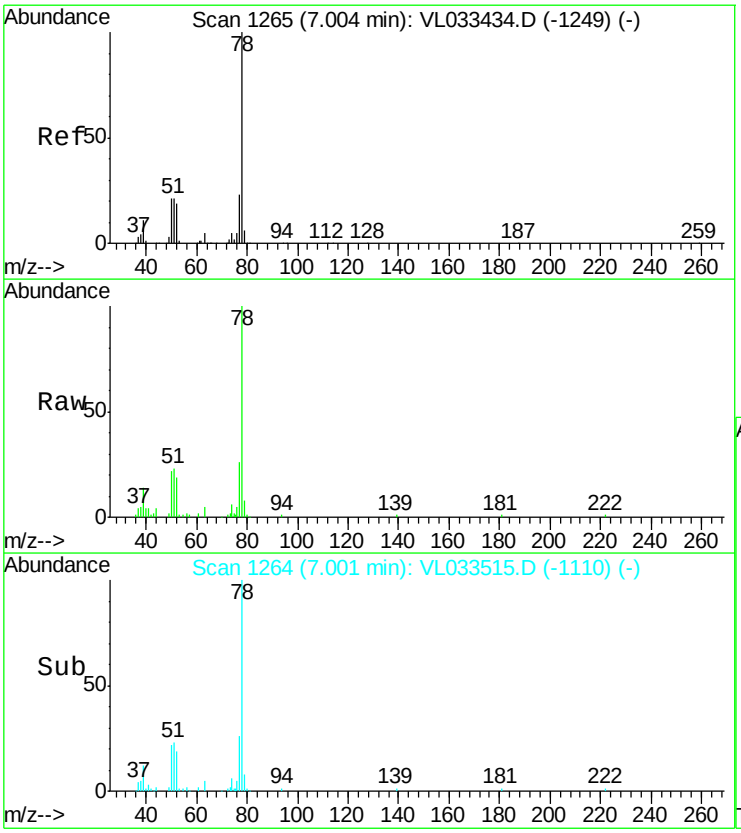
#35
Carbon Tetrachloride
Concen: 0.08 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 11082

Ion	Ratio	Lower	Upper
117	100		
119	92.6	75.8	113.8
121	24.4	24.7	37.1#

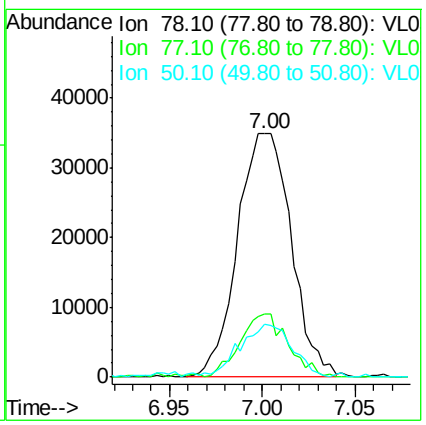


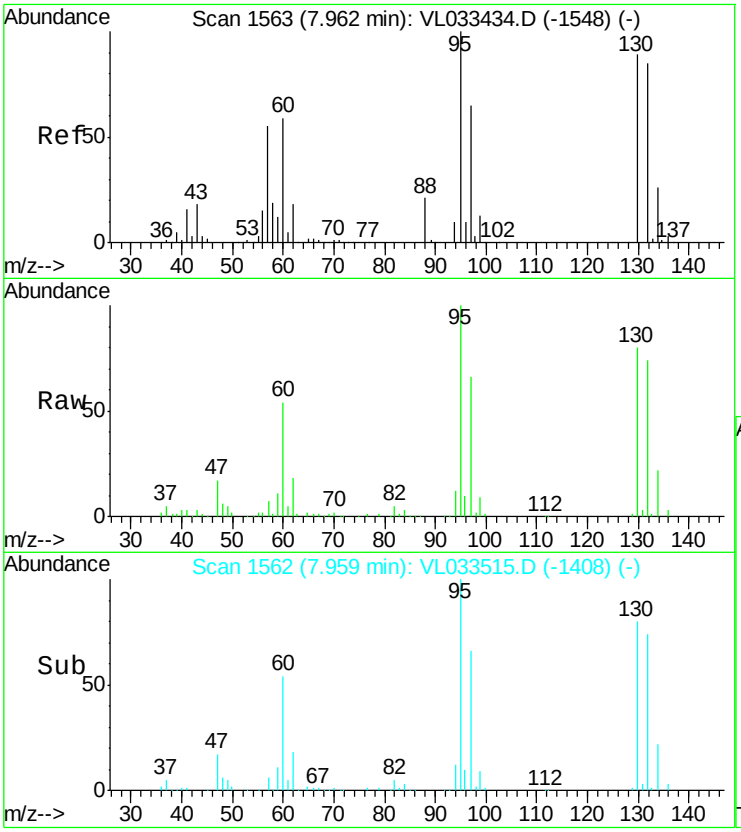


#36
Benzene
Concen: 0.44 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 78 Resp: 70400

Ion	Ratio	Lower	Upper
78	100		
77	25.2	18.1	27.1
50	20.6	16.7	25.1



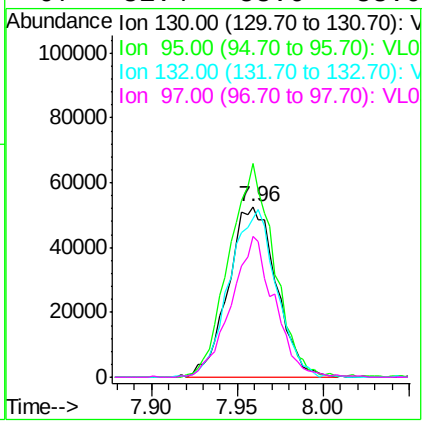


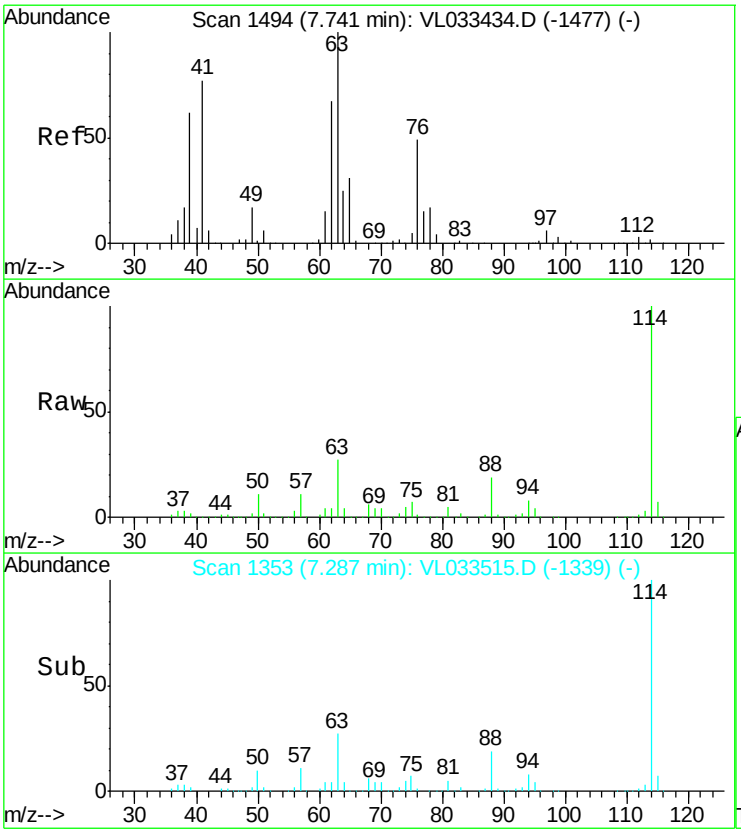
#38
Trichloroethene
Concen: 1.71 ppbv
RT: 7.96 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:130 Resp: 101636

Ion	Ratio	Lower	Upper
130	100		
95	124.3	89.8	134.8
132	94.0	76.6	115.0
97	81.4	58.6	88.0

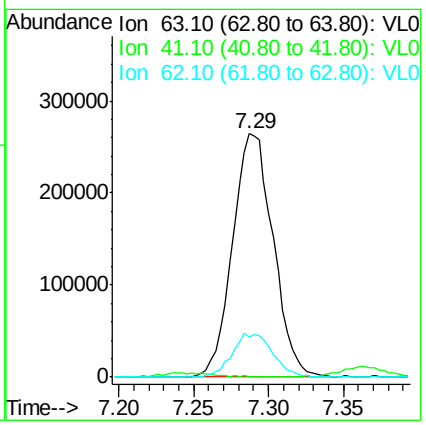


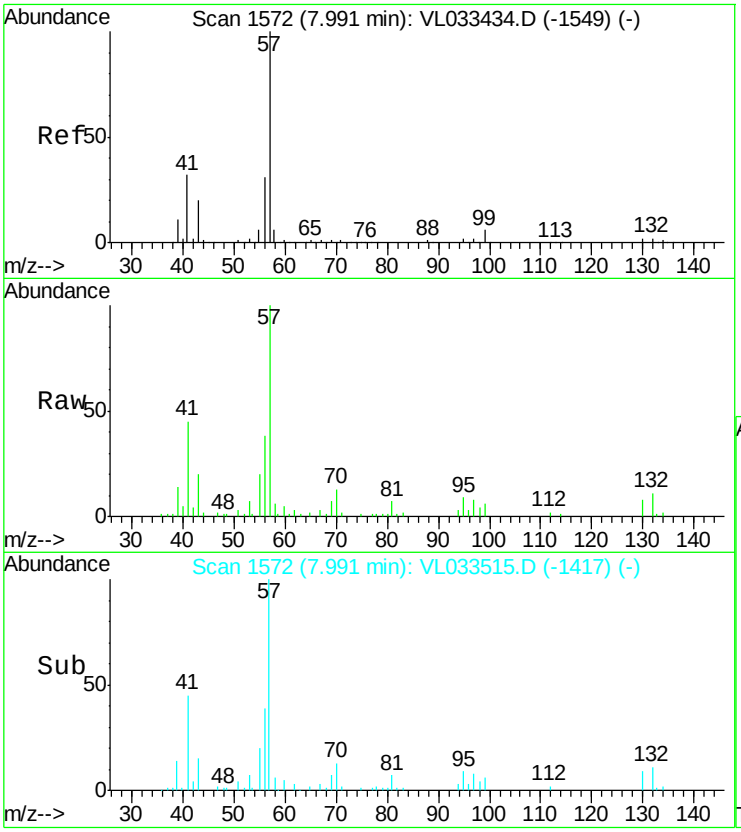


#39
1,2-Dichloropropane
Concen: 8.04 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.45 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 63 Resp: 498722

Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.2	91.8#
62	16.5	54.0	81.0#



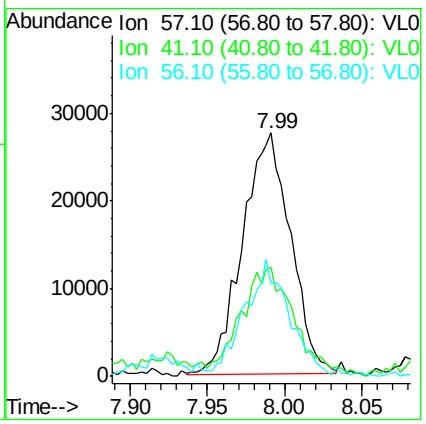


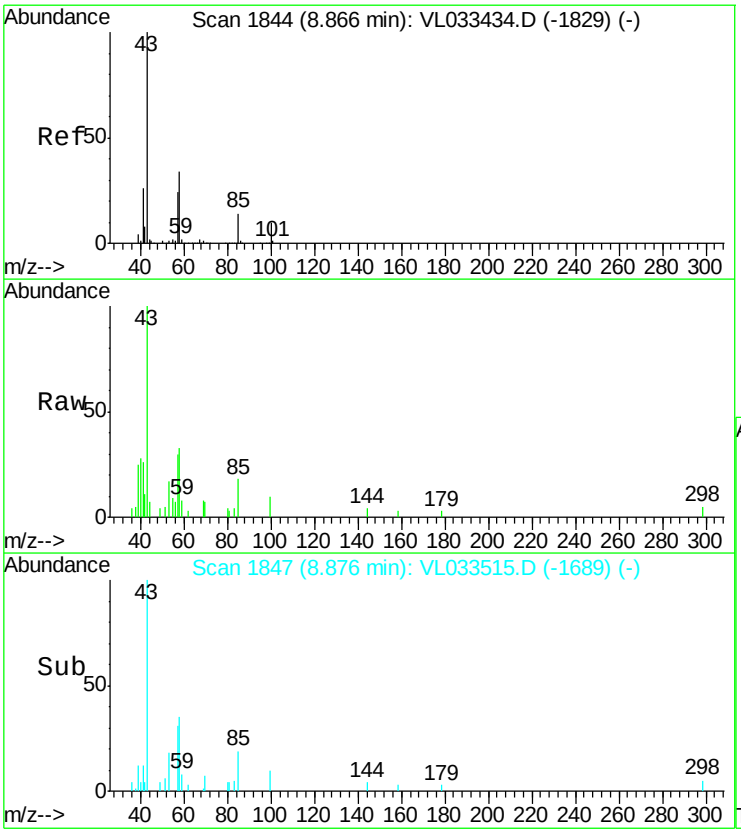
#44
2,2,4-Trimethylpentane
Concen: 0.22 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 57 Resp: 59644

Ion	Ratio	Lower	Upper
57	100		
41	49.3	26.0	39.0#
56	47.0	24.6	37.0#

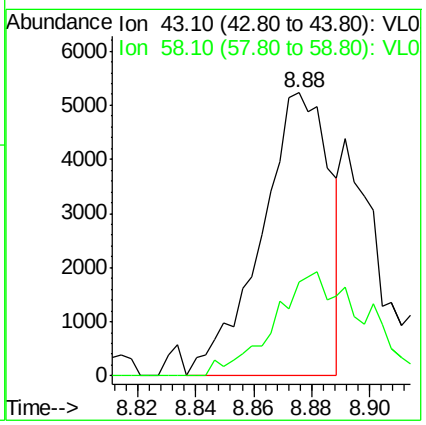


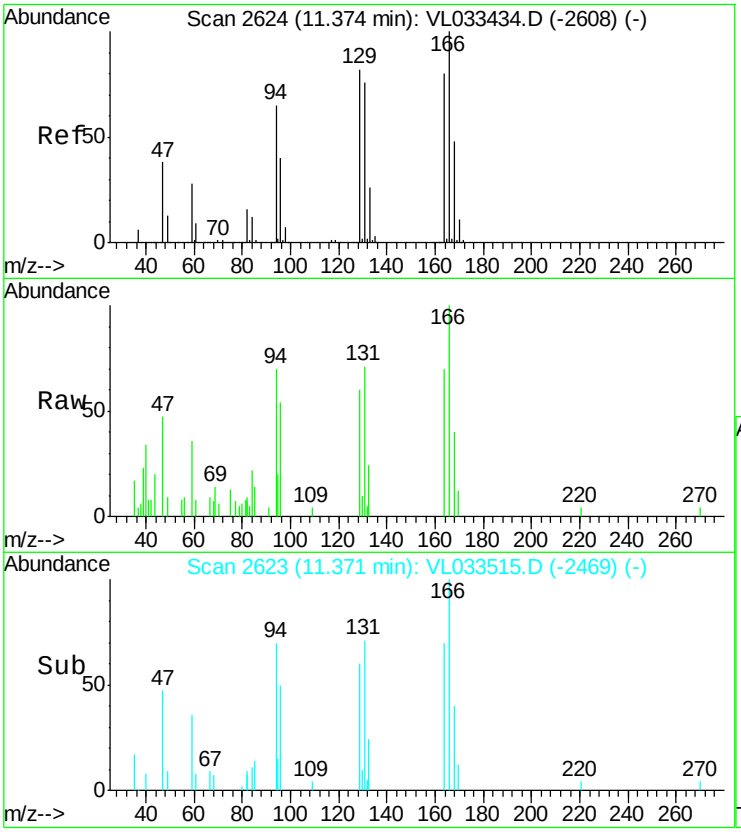


#50
4-Methyl-2-Pentanone
Concen: 0.05 ppbv
RT: 8.88 min Scan# 1847
Delta R.T. 0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 43 Resp: 8580

Ion	Ratio	Lower	Upper
43	100		
58	47.4	28.0	42.0#



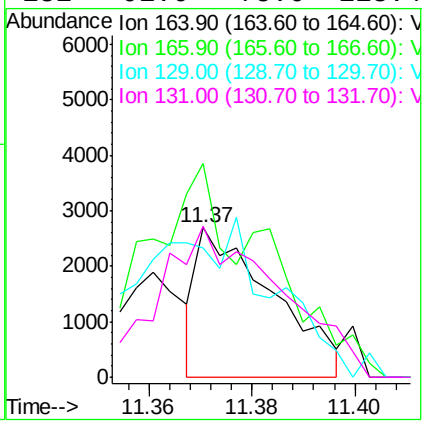


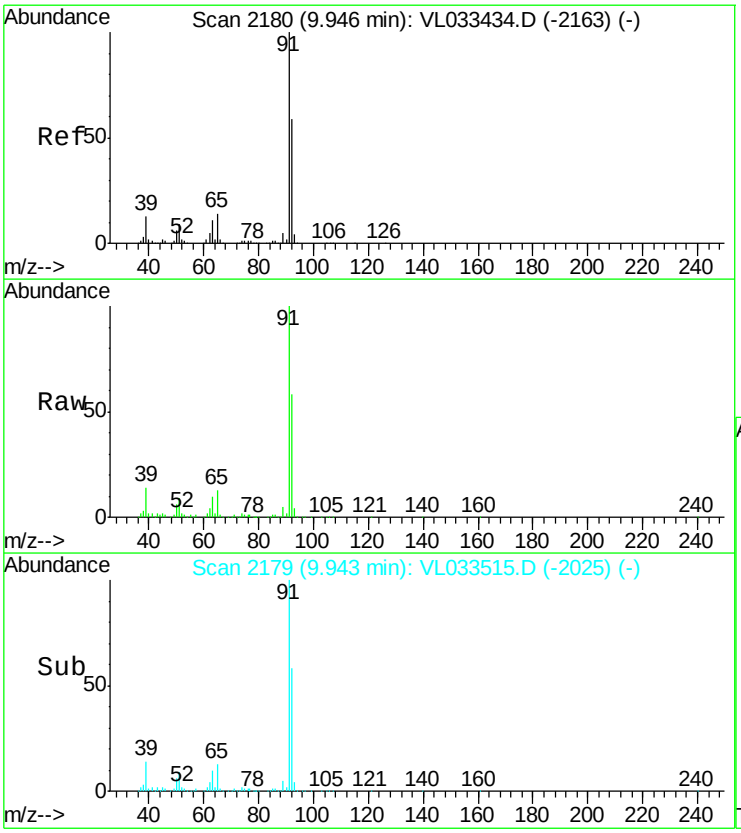
#52
Tetrachloroethene
Concen: 0.05 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:164 Resp: 2726

Ion	Ratio	Lower	Upper
164	100		
166	149.7	99.5	149.3#
129	101.3	81.4	122.2
131	91.6	75.6	113.4

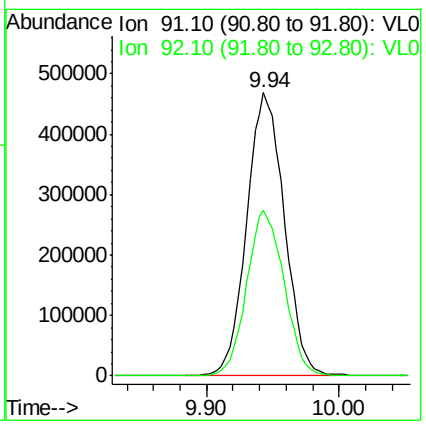


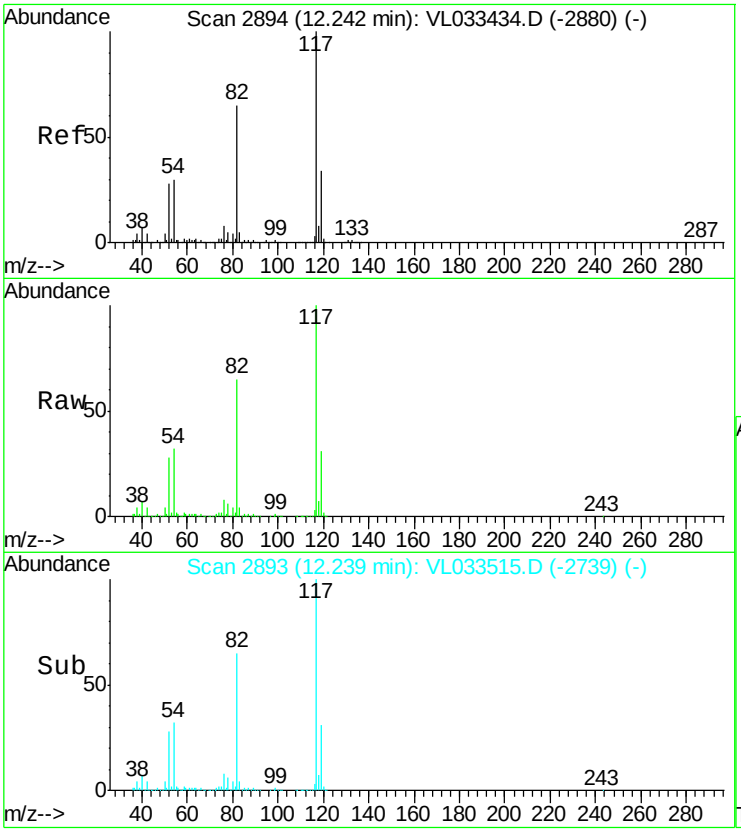


#53
Toluene
Concen: 5.00 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 91 Resp: 920621

Ion	Ratio	Lower	Upper
91	100		
92	58.3	47.4	71.0



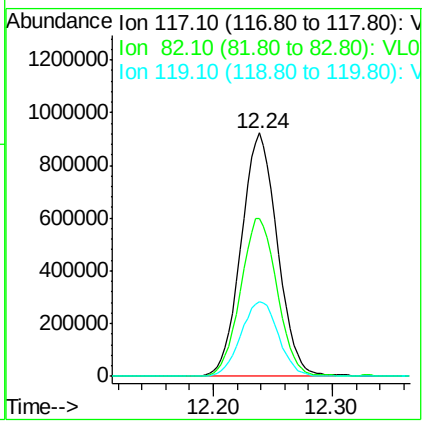


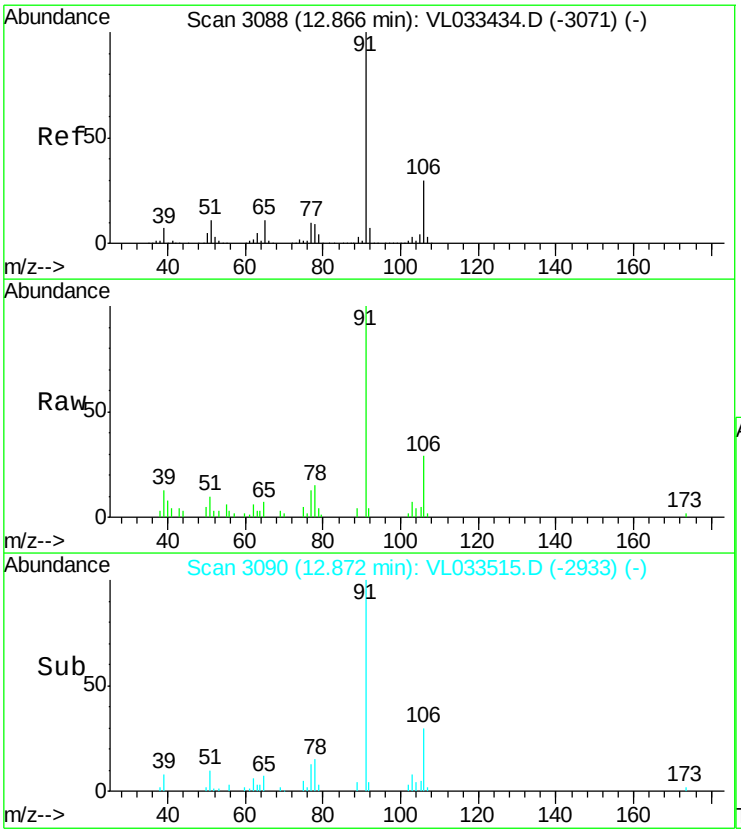
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 1941779

Ion	Ratio	Lower	Upper
117	100		
82	65.9	51.5	77.3
119	32.0	25.5	38.3

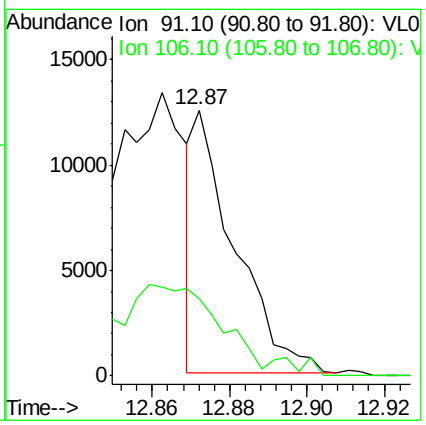


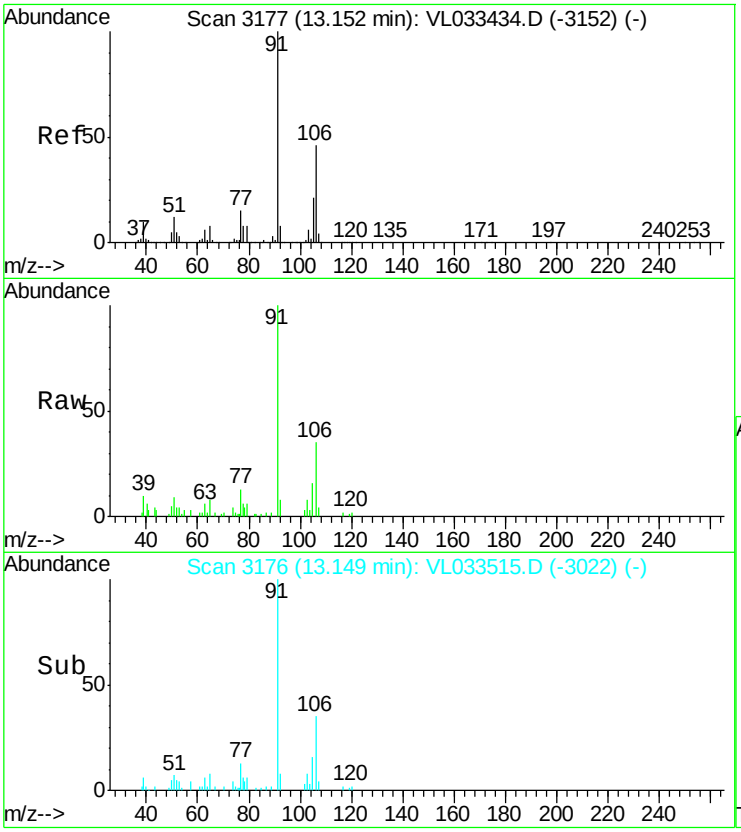


#58
Ethyl Benzene
Concen: 0.04 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. 0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 91 Resp: 9092

Ion	Ratio	Lower	Upper
91	100		
106	28.7	23.8	35.6



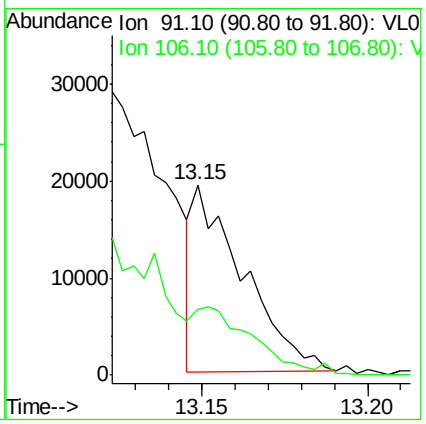


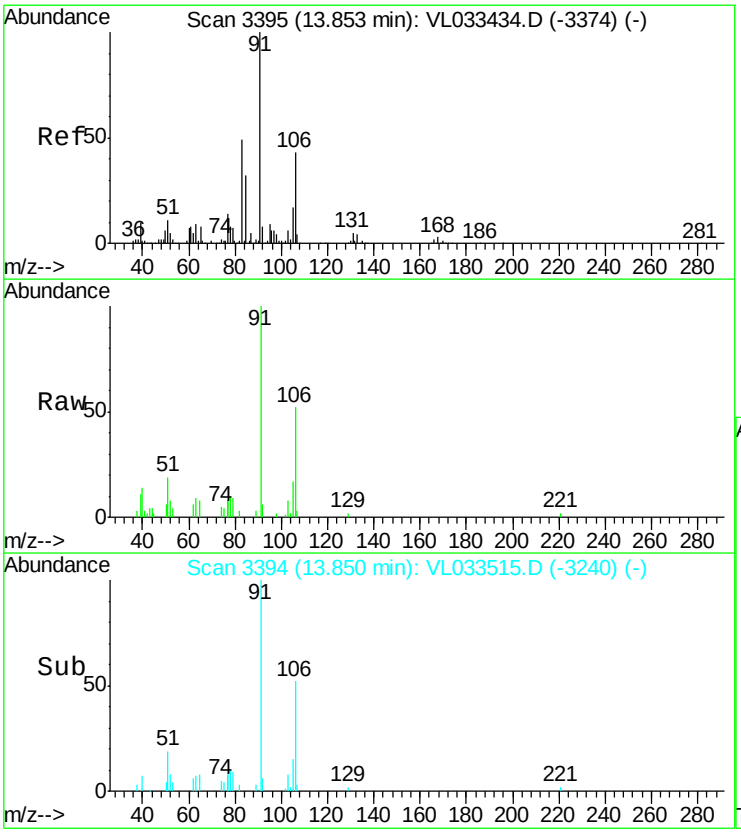
#59
m/p-Xylene
Concen: 0.09 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 19997

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

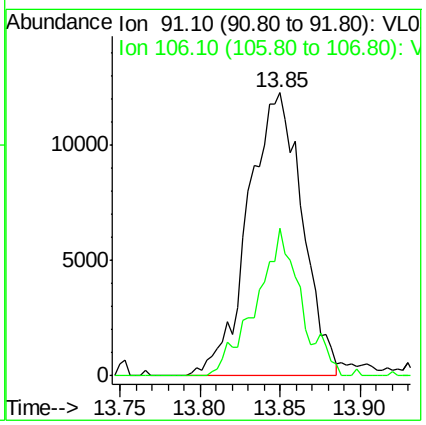


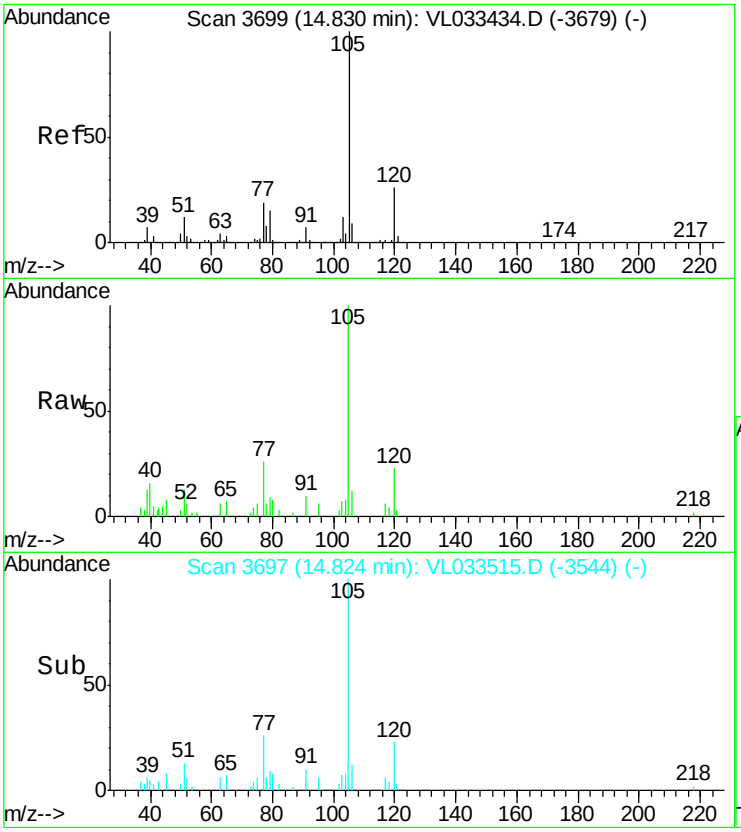


#60
o-Xylene
Concen: 0.13 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 91 Resp: 28538

Ion	Ratio	Lower	Upper
91	100		
106	43.6	21.4	64.3



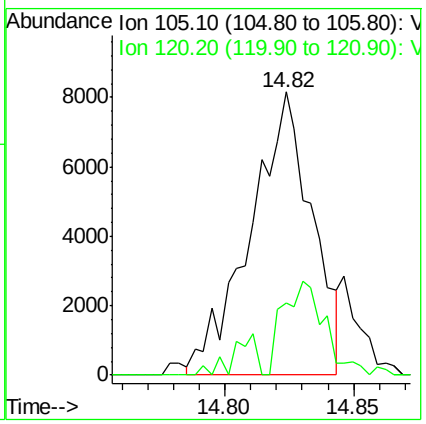


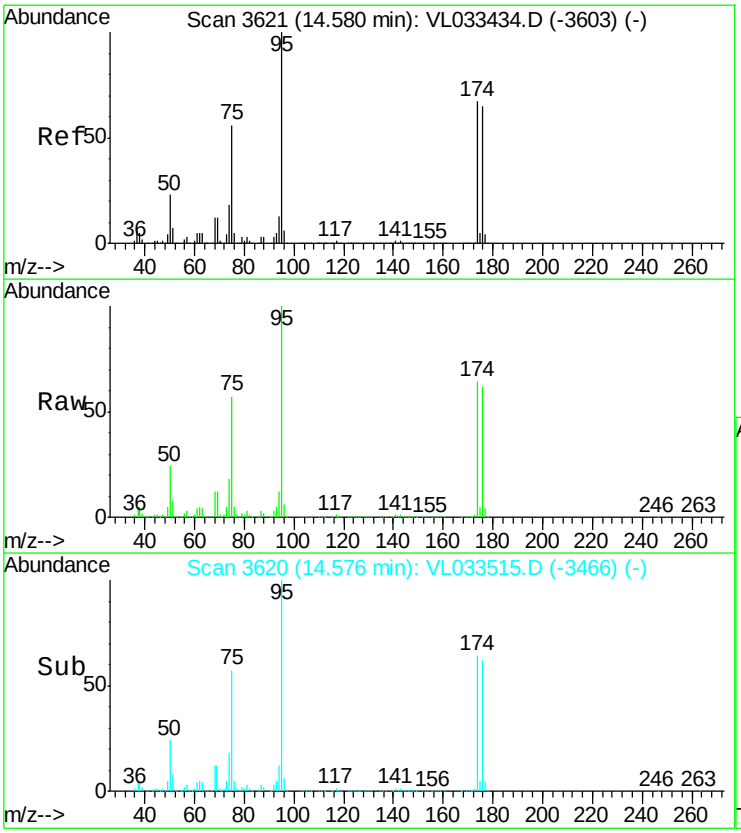
#62
Isopropylbenzene
Concen: 0.04 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. -0.01 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion:105 Resp: 13586

Ion	Ratio	Lower	Upper
105	100		
120	28.3	20.2	30.2

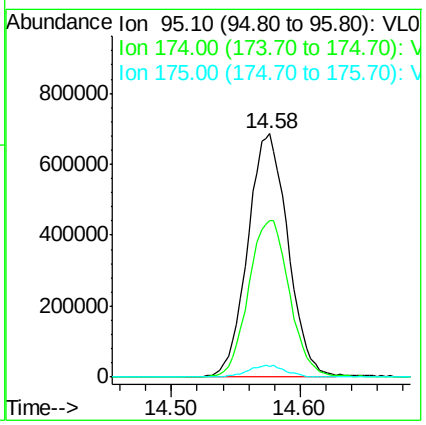


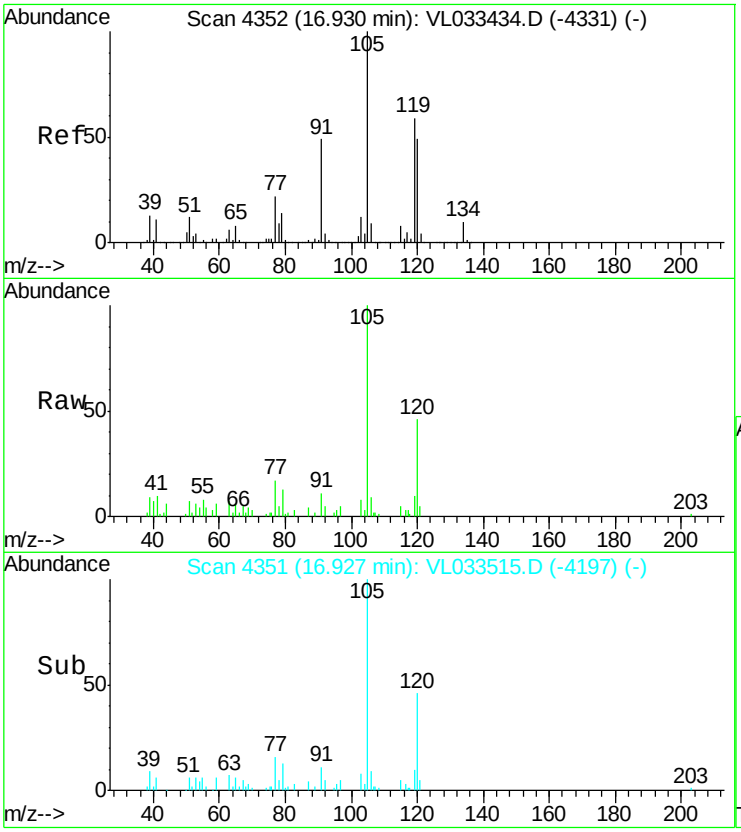


#68
1-Bromo-4-Fluorobenzene
Concen: 9.78 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Tgt Ion: 95 Resp: 1488389

Ion	Ratio	Lower	Upper
95	100		
174	66.0	52.9	79.3
175	4.7	3.8	5.6





#74
1,2,4-Trimethylbenzene
Concen: 0.06 ppbv
RT: 16.93 min Scan# 4351
Delta R.T. -0.00 min
Lab File: VL033515.D
Acq: 29 Mar 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:105 Resp: 16224

Ion	Ratio	Lower	Upper
105	100		
120	49.4	39.0	58.6
91	9.4	40.0	60.0#
77	15.7	17.5	26.3#