Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
Data File : VL033454.D
Acq On : 26 Mar 2019 2:47
Operator : SY/AP
Sample : K1991-06
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA-3

Quant Time: Mar 26 05:23:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Mar 25 16:04:49 2019
QLast Update : Mon Mar 25 16:04:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.76	49	661377	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.29	114	1559210	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.24	117	1598648	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.57	95	1250561	9.98	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.08	85	32147	0.333	ppbv		99
3) Chlorodifluoromethane	2.99	51	59184	0.777	ppbv	#	72
4) Chloromethane	3.17	50	23654	0.587	ppbv		95
9) Propene	3.05	41	34348	1.074	ppbv	#	72
10) Heptane	8.24	43	20901	0.261	ppbv		99
11) Trichlorofluoromethane	4.00	101	29690	0.250	ppbv		98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	5897	0.074	ppbv		97
13) Ethanol	3.65	45	555325	73.604	ppbv		65
15) Acetone	3.89	43	2799519	35.204	ppbv		98
16) 1,3-Butadiene	3.34	39	5490	0.174	ppbv	#	44
17) tert-Butyl alcohol	4.37	59	13631	0.932	ppbv	#	73
19) Isopropyl Alcohol	4.03	45	92785	1.845	ppbv	#	1
20) Methylene Chloride	4.41	84	28955	0.858	ppbv		93
21) Allyl Chloride	4.36	41	12556	0.250	ppbv	#	89
23) Vinyl Acetate	5.13	43	3946	0.035	ppbv	#	1
25) Ethyl Acetate	5.78	43	44219	0.300	ppbv	#	86
26) Hexane	5.78	57	49990	0.762	ppbv	#	46
27) Carbon Disulfide	4.62	76	3308	0.042	ppbv	#	1
30) Cyclohexane	7.25	84	4028	0.078	ppbv	#	1
34) 2-Butanone	5.33	43	252287	2.693	ppbv		100
35) Carbon Tetrachloride	7.14	117	3848	0.038	ppbv		84
36) Benzene	7.00	78	35153	0.269	ppbv	#	94
39) 1,2-Dichloropropane	7.29	63	404879	7.900	ppbv	#	24
41) Tetrahydrofuran	6.16	42	8602	0.167	ppbv	#	42
53) Toluene	9.95	91	464397	3.055	ppbv		99
58) Ethyl Benzene	12.87	91	9785	0.046	ppbv		92
59) m/p-Xylene	13.15	91	9885	0.052	ppbv	#	100
60) o-Xylene	13.84	91	14782	0.080	ppbv		75
61) Styrene	13.68	104	10940	0.086	ppbv		95
71) 2-Chlorotoluene	15.48	91	74984	0.378	ppbv	#	46
74) 1,2,4-Trimethylbenzene	16.93	105	10550	0.050	ppbv	#	74
79) Naphthalene	22.42	128	15202	0.084	ppbv		97
80) Naphthalene,2-methyl-	25.12	142	15244	0.250	ppbv		96

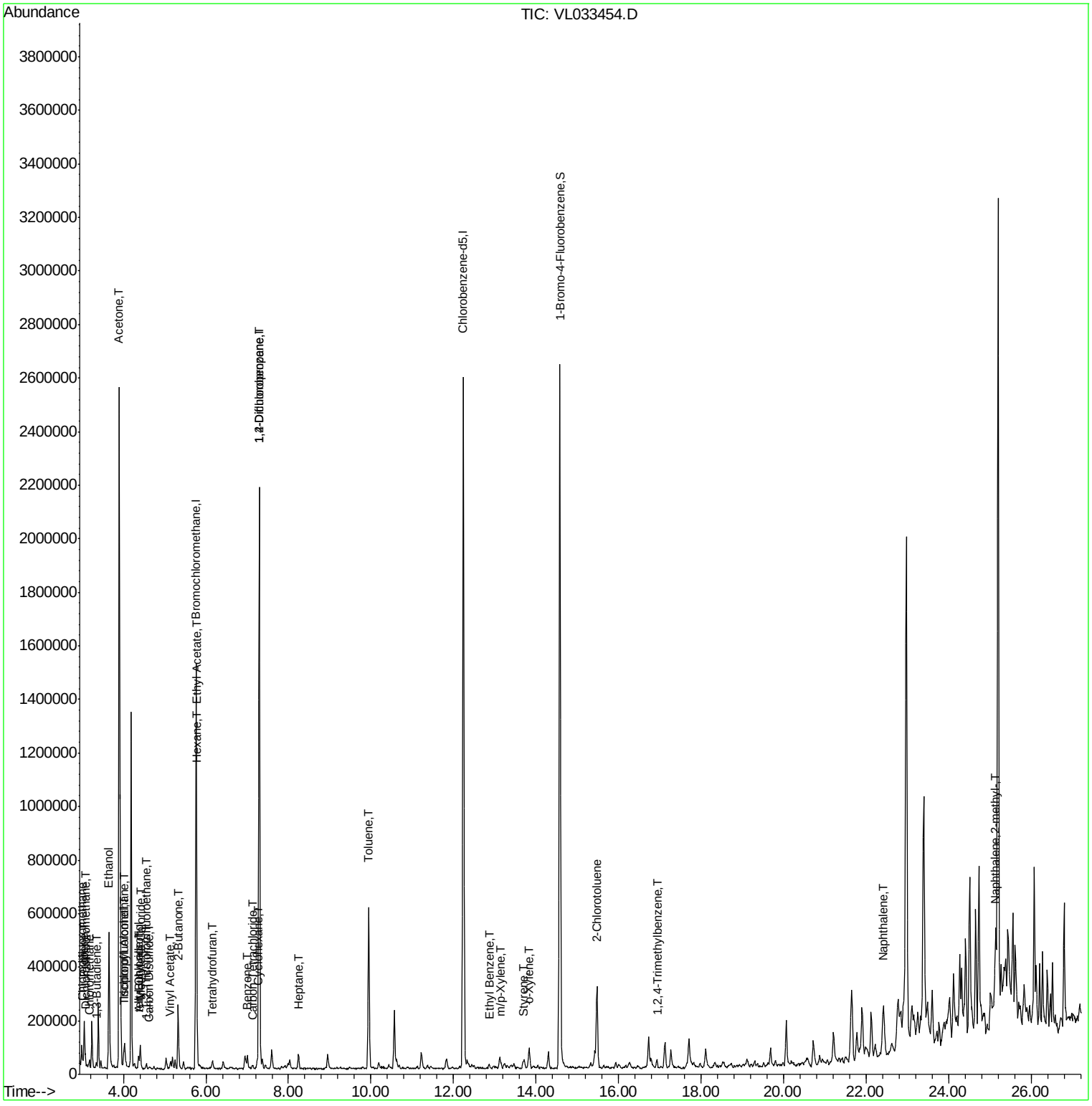
(#) = qualifier out of range (m) = manual integration (+) = signals summed

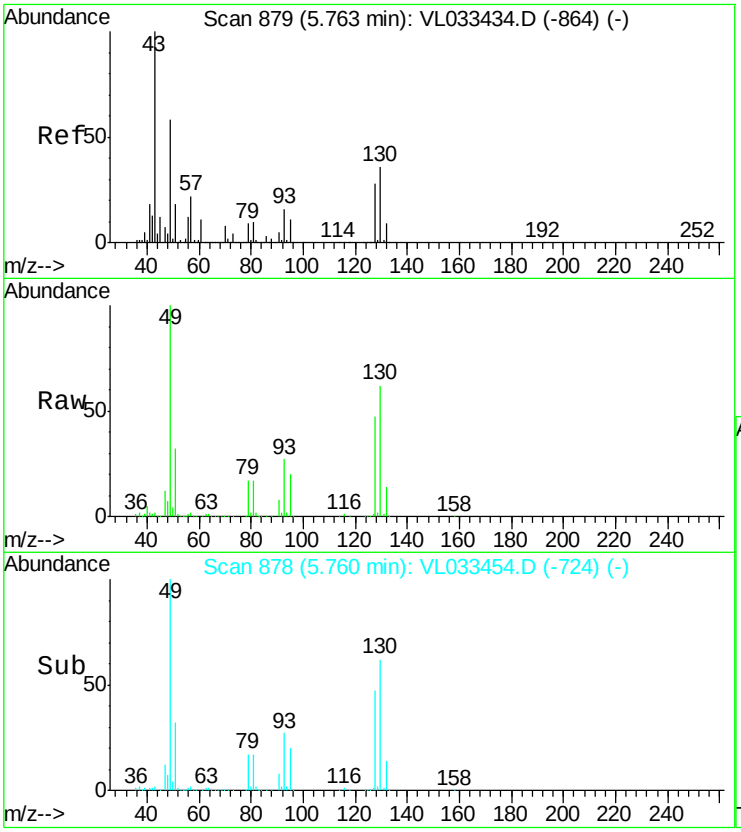
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
Data File : VL033454.D
Acq On : 26 Mar 2019 2:47
Operator : SY/AP
Sample : K1991-06
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA-3

Quant Time: Mar 26 05:23:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Mar 25 16:04:49 2019
QLast Update : Mon Mar 25 16:04:49 2019
Response via : Initial Calibration



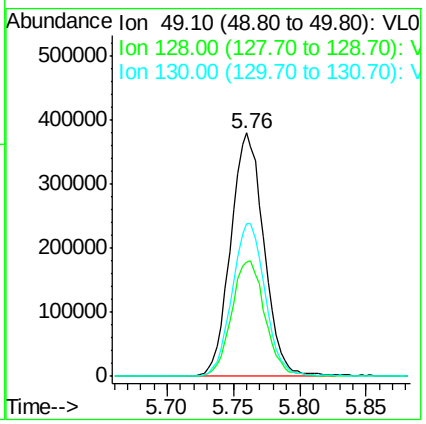


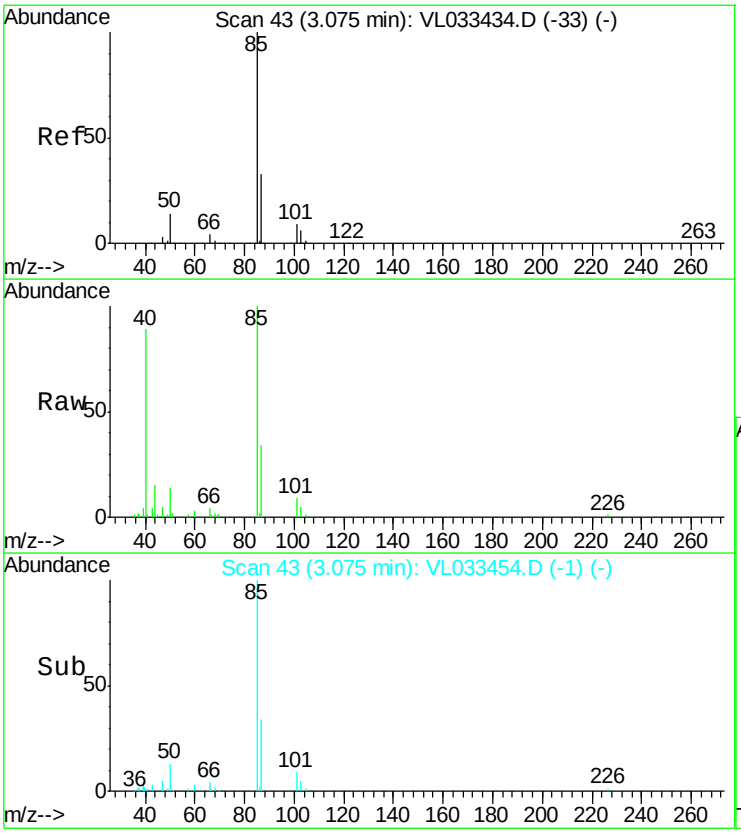
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 49 Resp: 661377

Ion	Ratio	Lower	Upper
49	100		
128	47.5	24.0	72.0
130	62.7	31.2	93.6

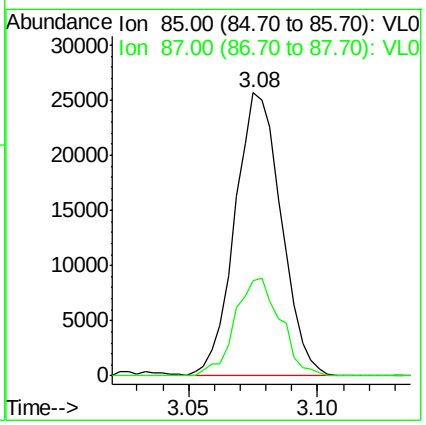


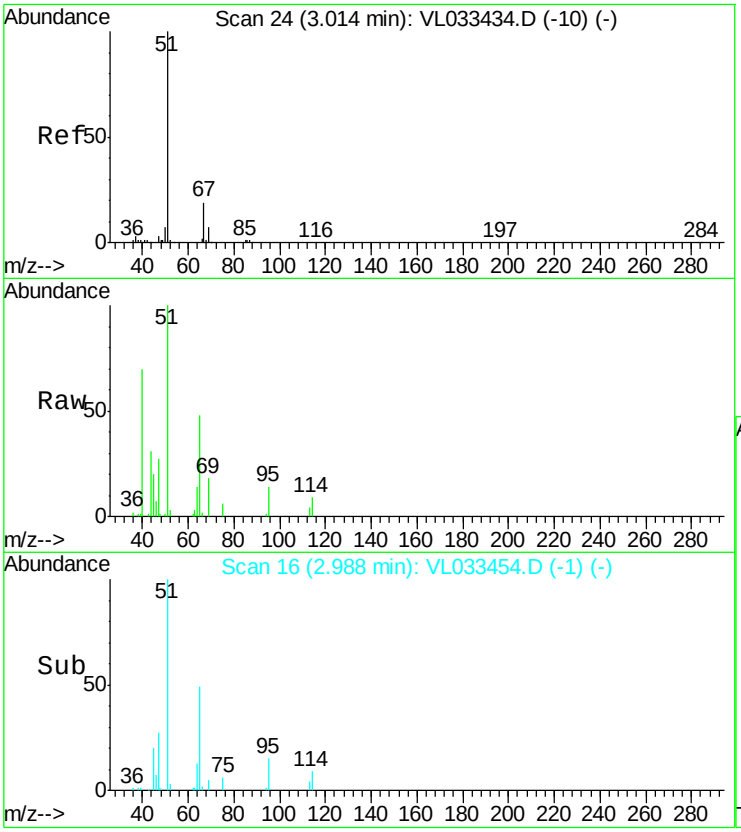


#2
Dichlorodifluoromethane
Concen: 0.333 ppbv
RT: 3.08 min Scan# 43
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 85 Resp: 32147

Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.7	40.1



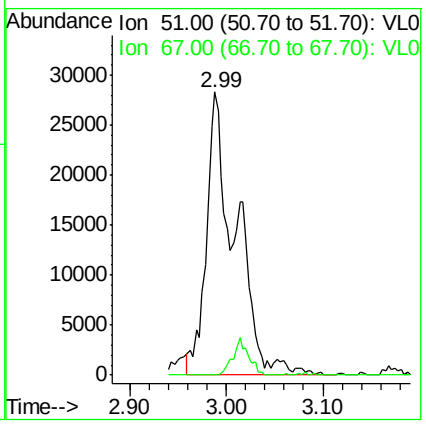


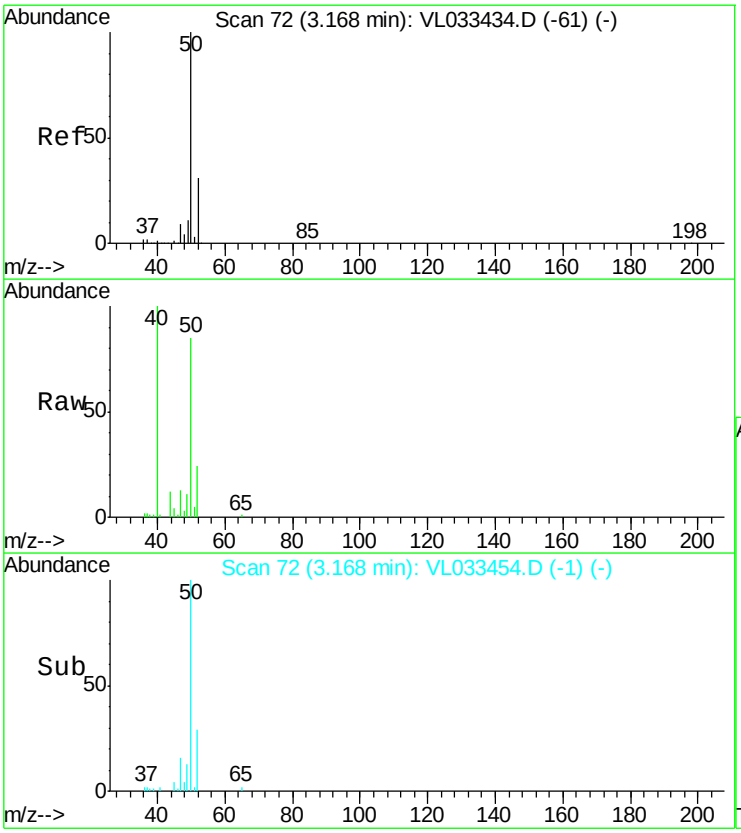
#3
Chlorodifluoromethane
Concen: 0.777 ppbv
RT: 2.99 min Scan# 16
Delta R.T. -0.03 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 51 Resp: 59184

Ion	Ratio	Lower	Upper
51	100		
67	7.0	15.7	23.5#

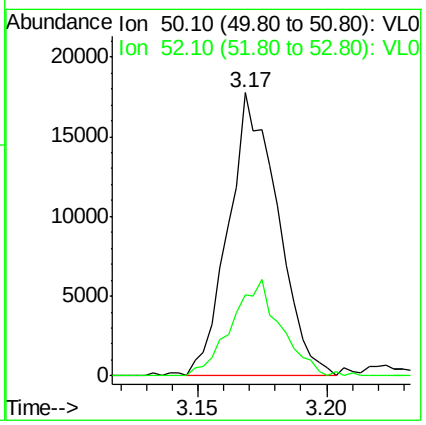


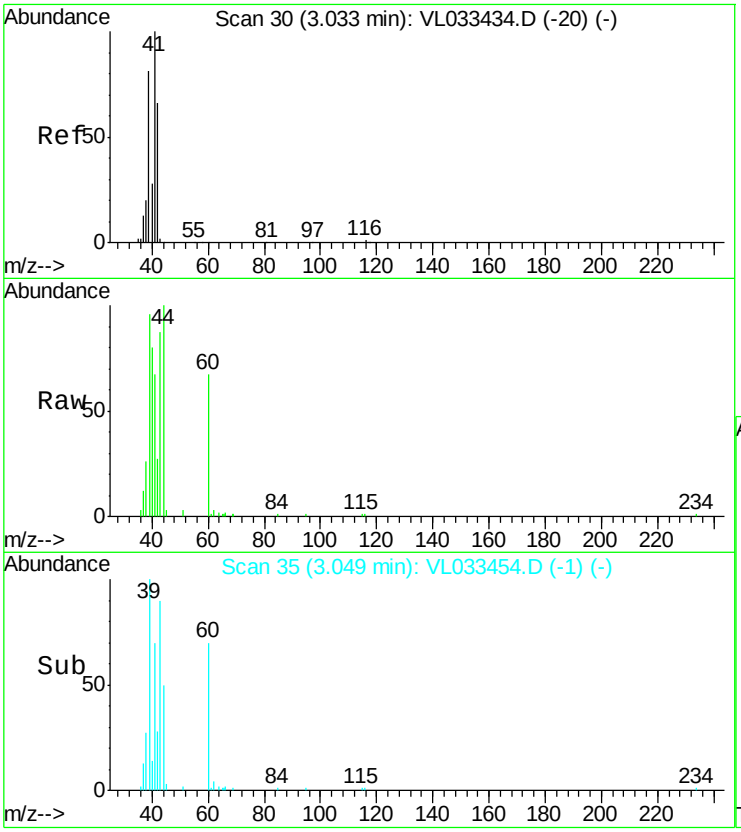


#4
Chloromethane
Concen: 0.587 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 50 Resp: 23654

Ion	Ratio	Lower	Upper
50	100		
52	28.6	25.0	37.6



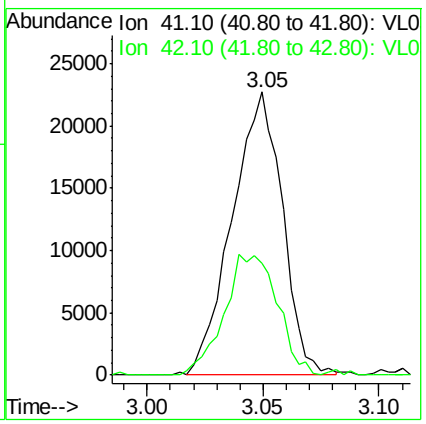


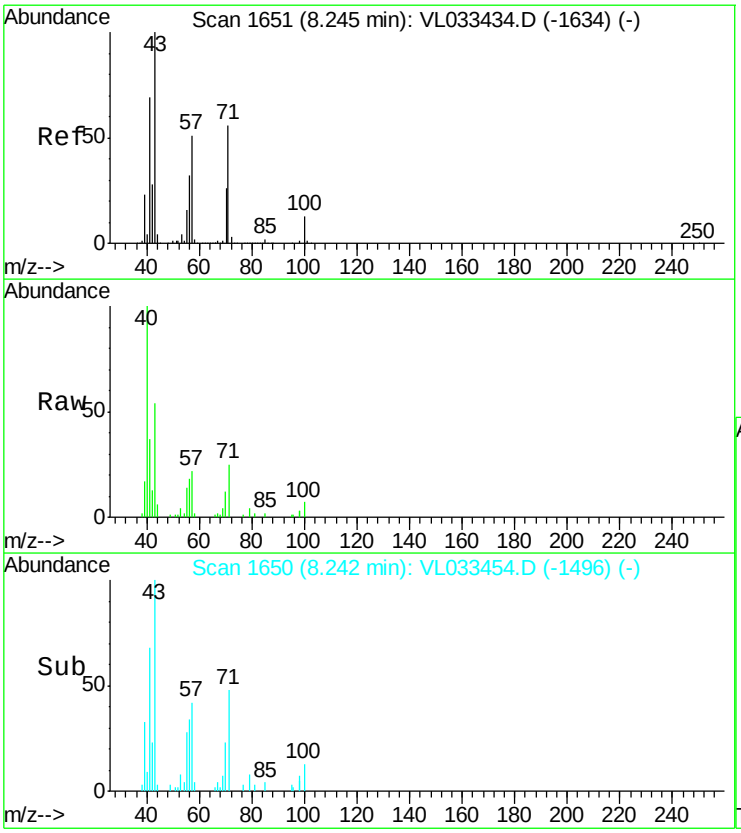
#9
Propene
Concen: 1.074 ppbv
RT: 3.05 min Scan# 35
Delta R.T. 0.02 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 41 Resp: 34348

Ion	Ratio	Lower	Upper
41	100		
42	45.2	53.9	80.9#

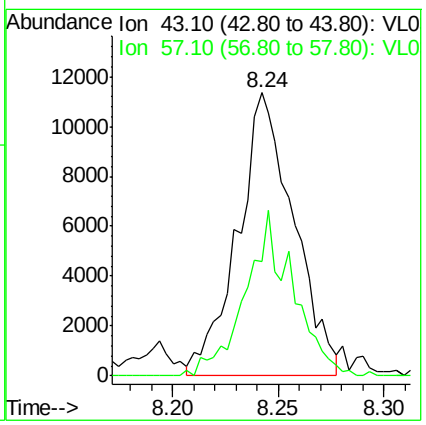


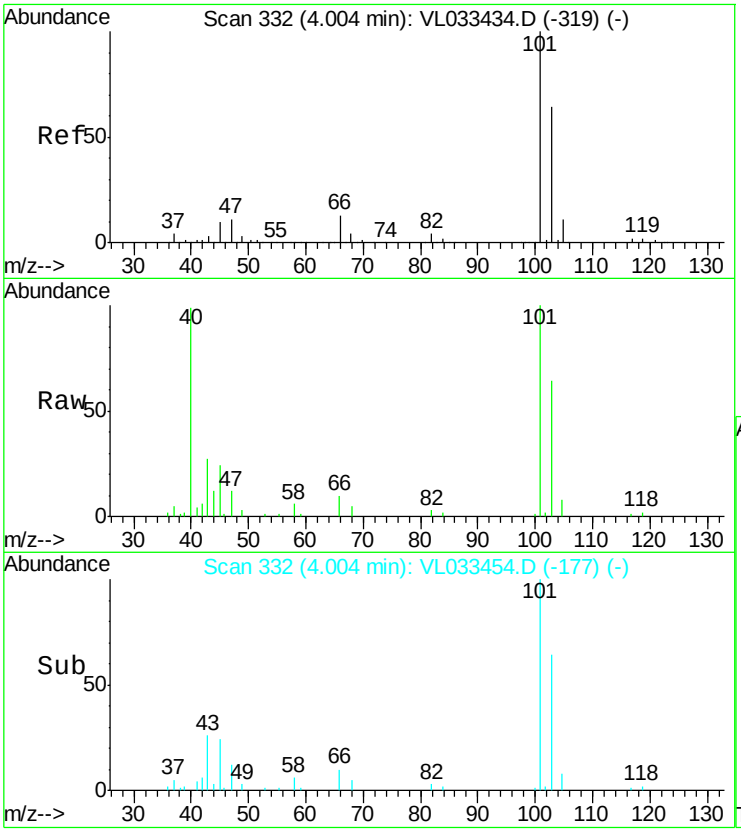


#10
Heptane
Concen: 0.261 ppbv
RT: 8.24 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 43 Resp: 20901

Ion	Ratio	Lower	Upper
43	100		
57	49.7	40.6	60.8



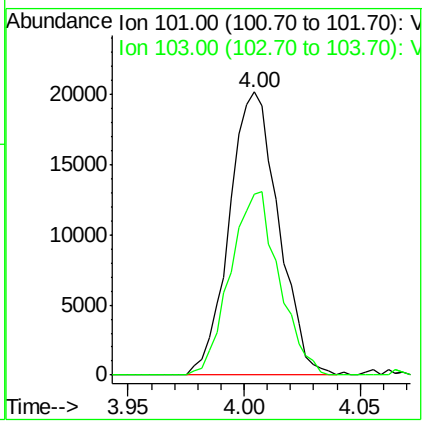


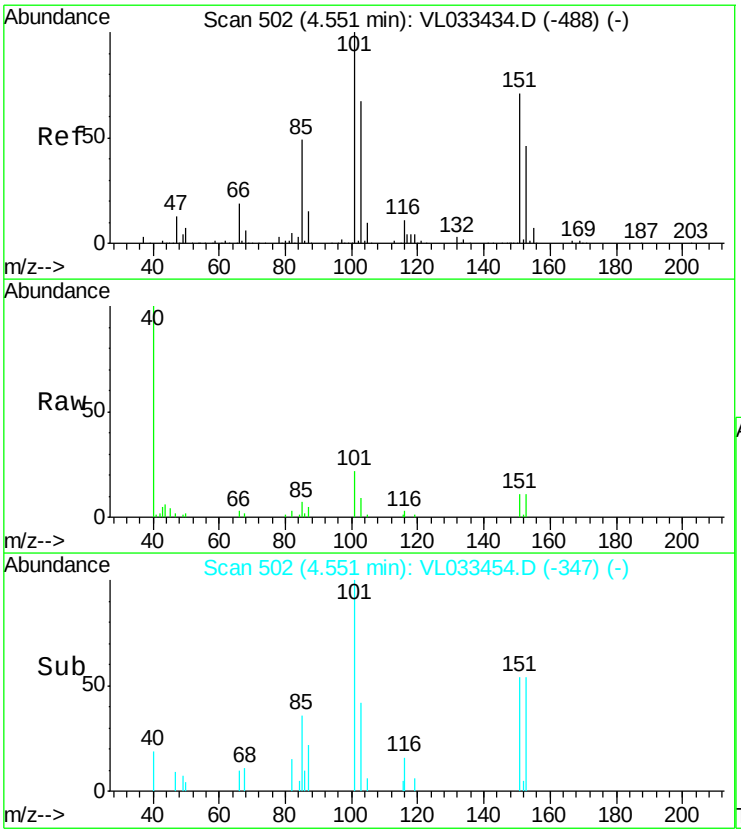
#11
Trichlorofluoromethane
Concen: 0.250 ppbv
RT: 4.00 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion:101 Resp: 29690

Ion	Ratio	Lower	Upper
101	100		
103	62.6	51.3	76.9

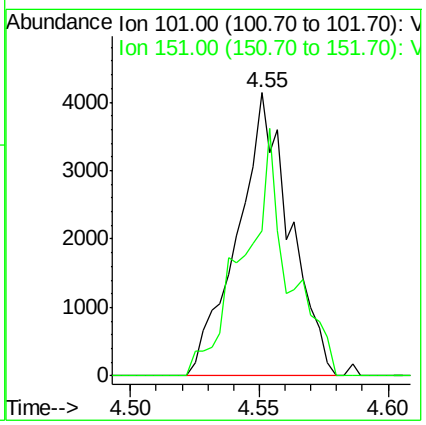


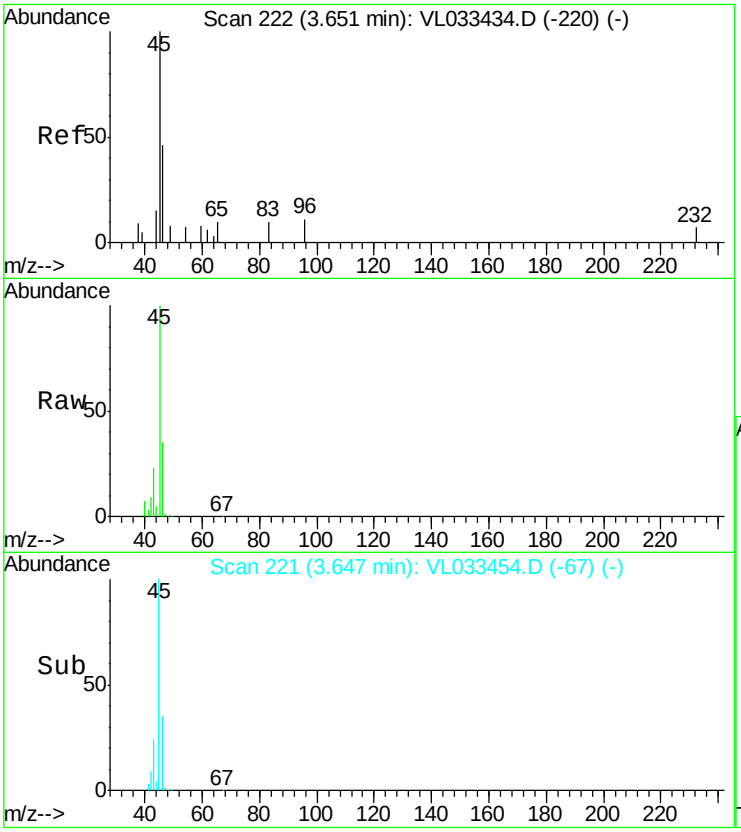


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 4.55 min Scan# 502
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion:101 Resp: 5897

Ion	Ratio	Lower	Upper
101	100		
151	74.8	57.7	86.5



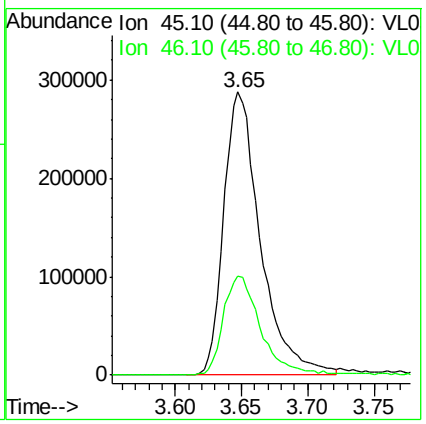


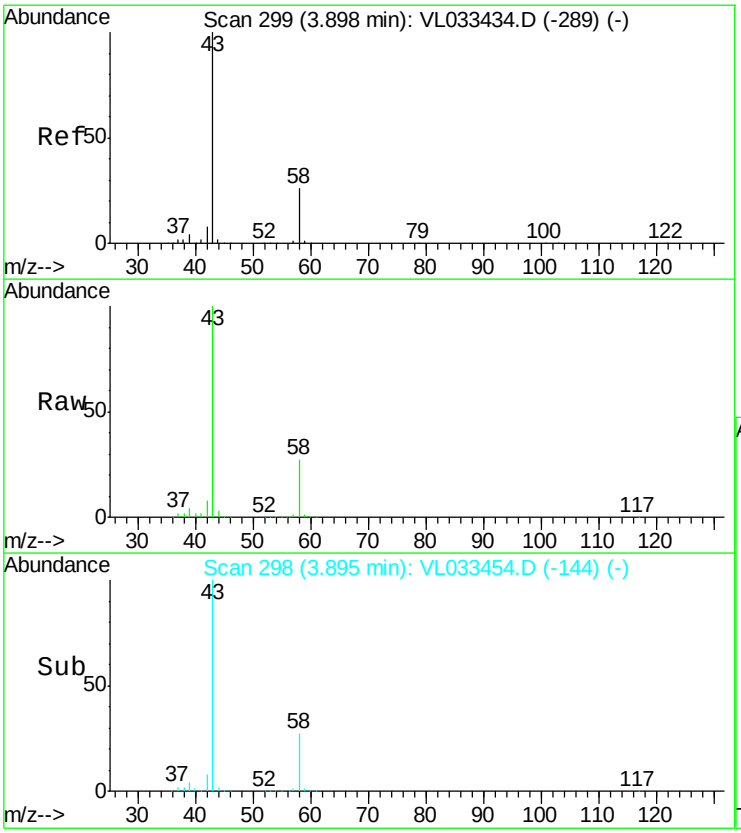
#13
Ethanol
Concen: 73.604 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 45 Resp: 555325

Ion	Ratio	Lower	Upper
45	100		
46	36.7	25.4	101.8

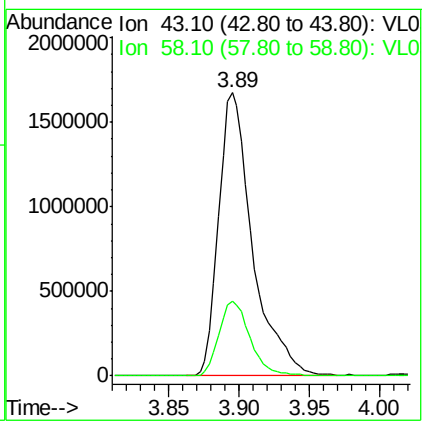


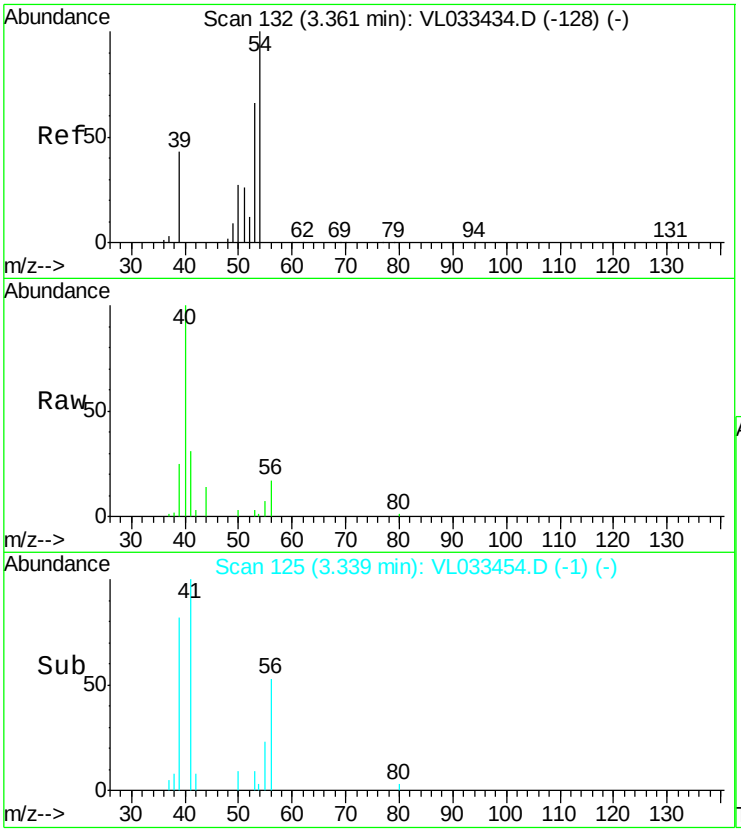


#15
Acetone
Concen: 35.204 ppbv
RT: 3.89 min Scan# 298
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 43 Resp: 2799519

Ion	Ratio	Lower	Upper
43	100		
58	24.5	20.5	30.7



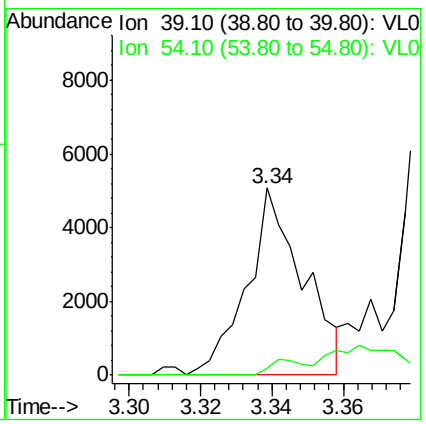


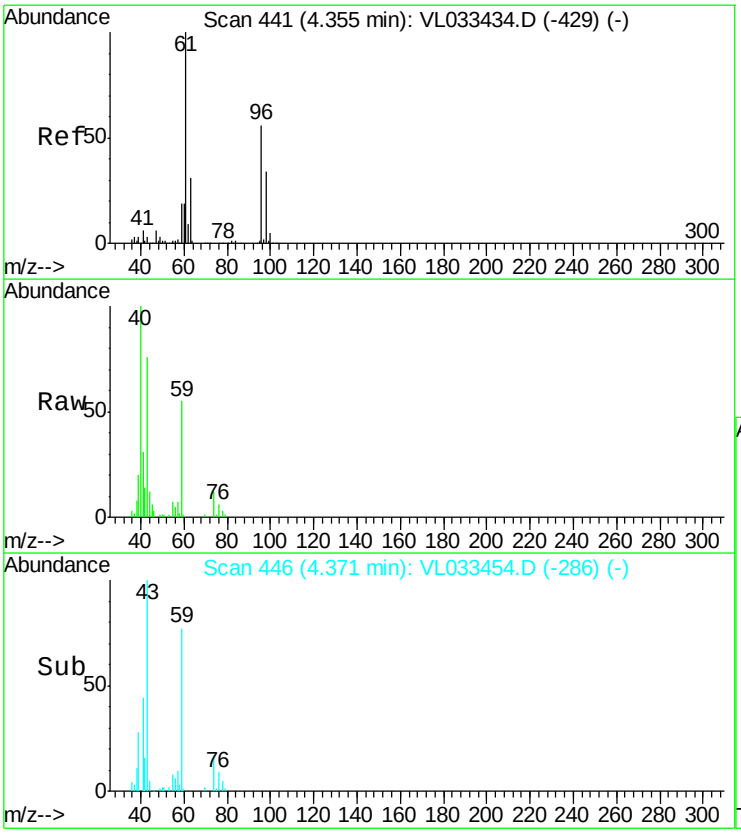
#16
1,3-Butadiene
Concen: 0.174 ppbv
RT: 3.34 min Scan# 125
Delta R.T. -0.02 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 39 Resp: 5490

Ion	Ratio	Lower	Upper
39	100		
54	35.1	69.4	104.2#

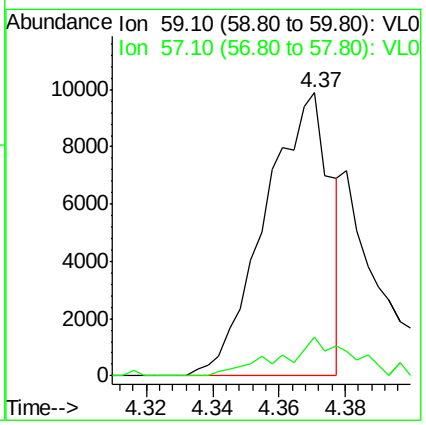


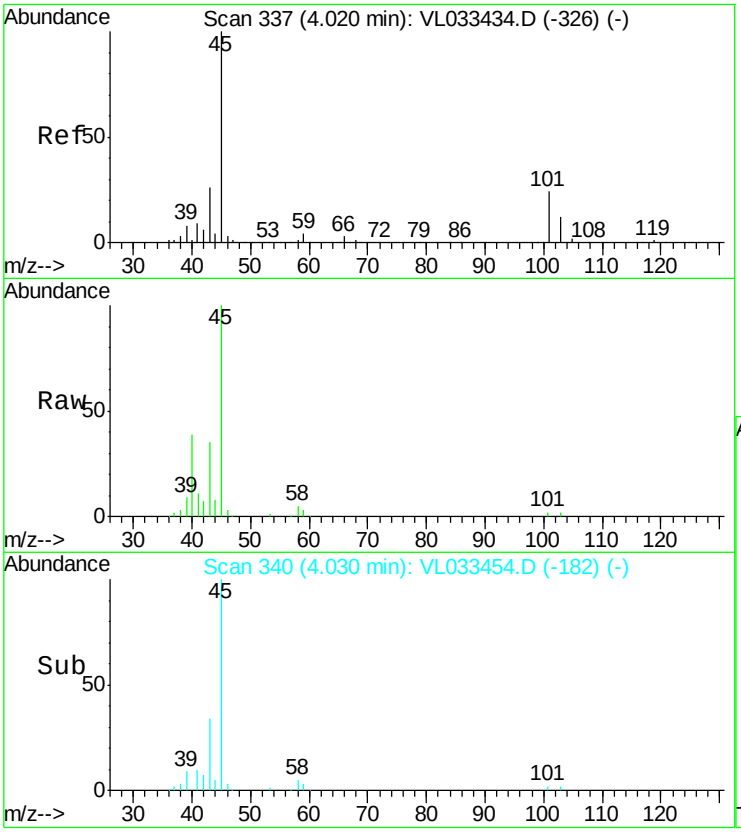


#17
tert-Butyl alcohol
Concen: 0.932 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.02 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 59 Resp: 13631

Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.8#



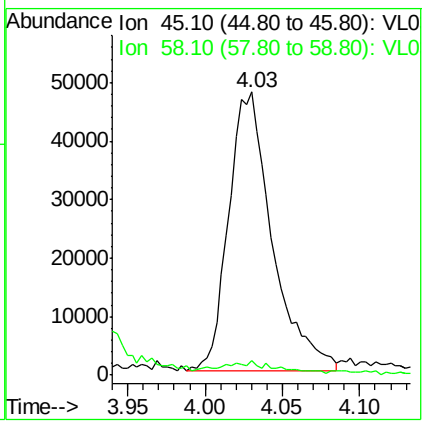


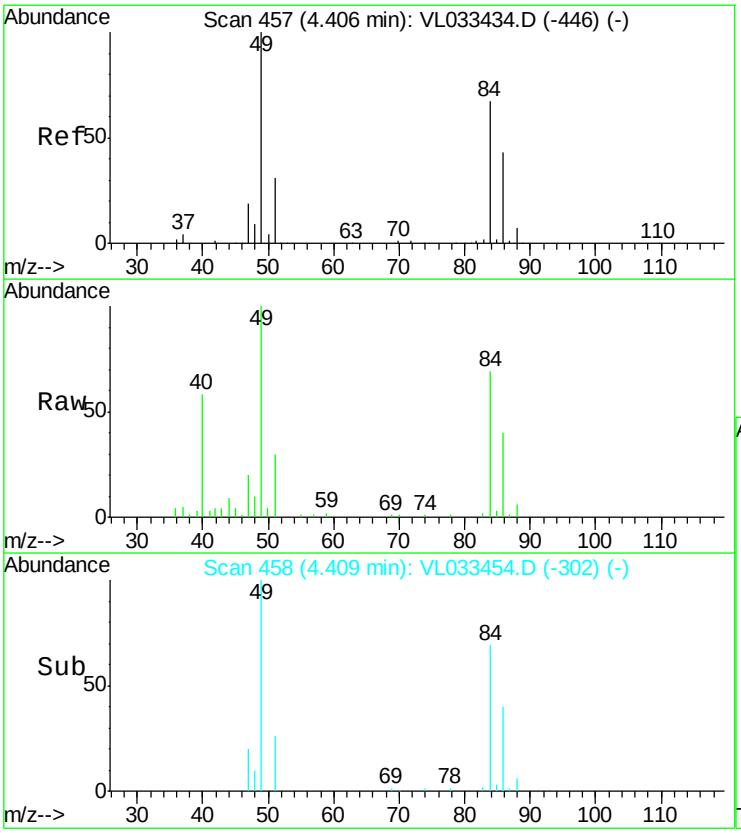
#19
Isopropyl Alcohol
Concen: 1.845 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 45 Resp: 92785

Ion	Ratio	Lower	Upper
45	100		
58	738.4	1.4	2.2#

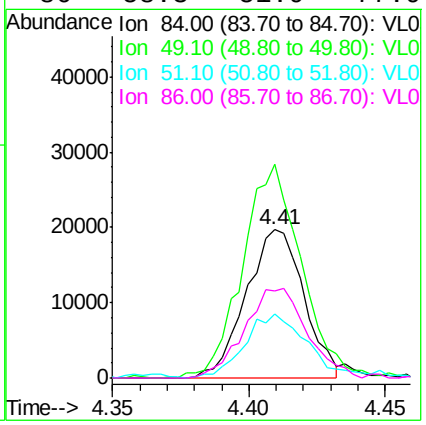


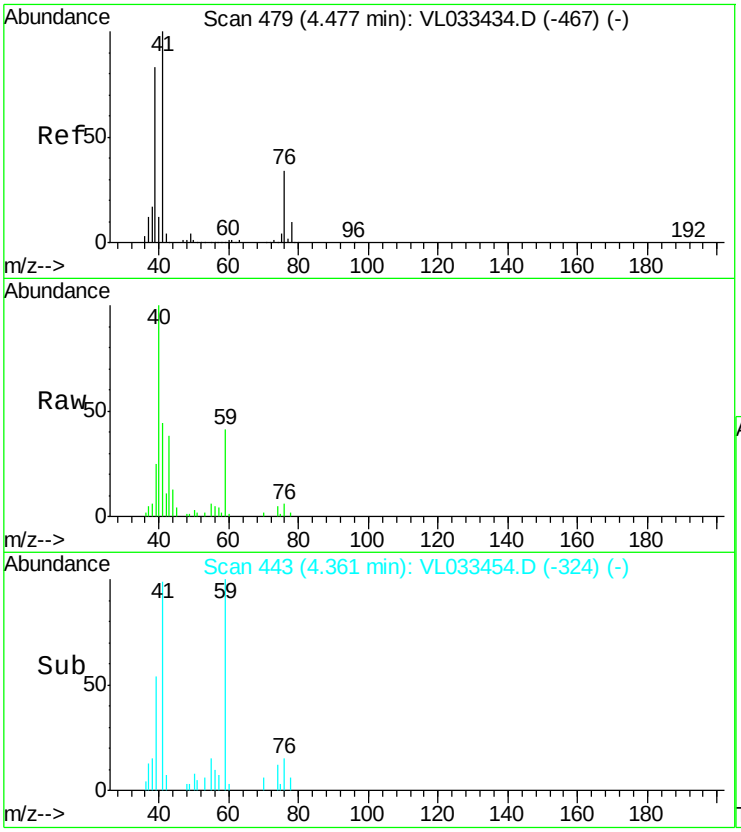


#20
Methylene Chloride
Concen: 0.858 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 84 Resp: 28955

Ion	Ratio	Lower	Upper
84	100		
49	140.2	120.0	180.0
51	43.6	36.7	55.1
86	58.3	51.9	77.9



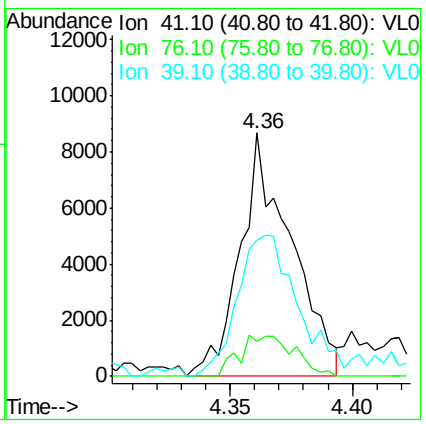


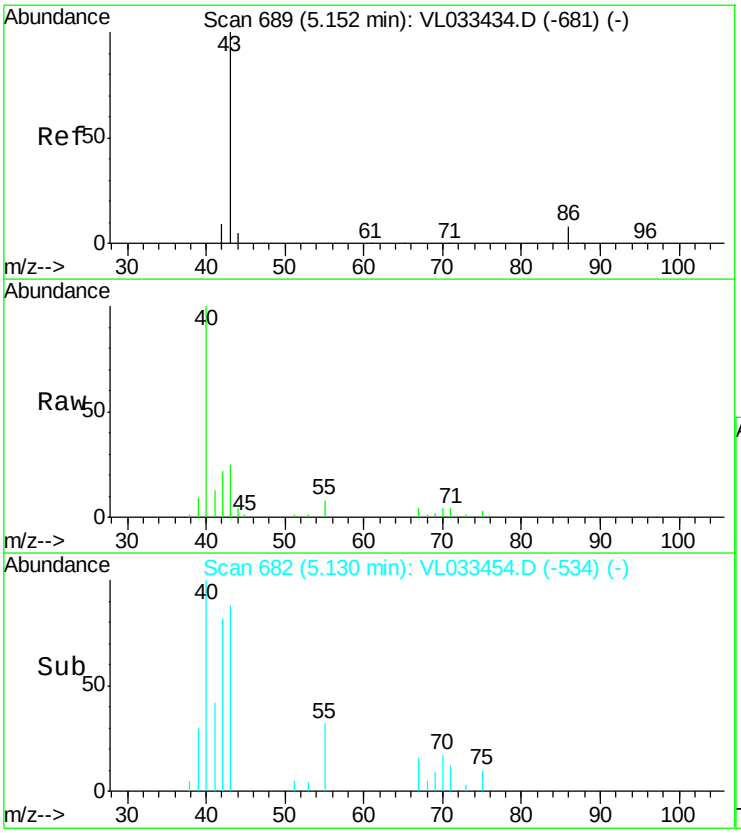
#21
Allyl Chloride
Concen: 0.250 ppbv
RT: 4.36 min Scan# 443
Delta R.T. -0.12 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 41 Resp: 12556

Ion	Ratio	Lower	Upper
41	100		
76	18.1	25.4	38.2#
39	77.1	65.3	97.9

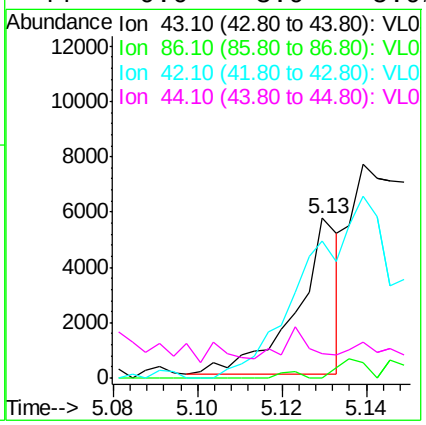


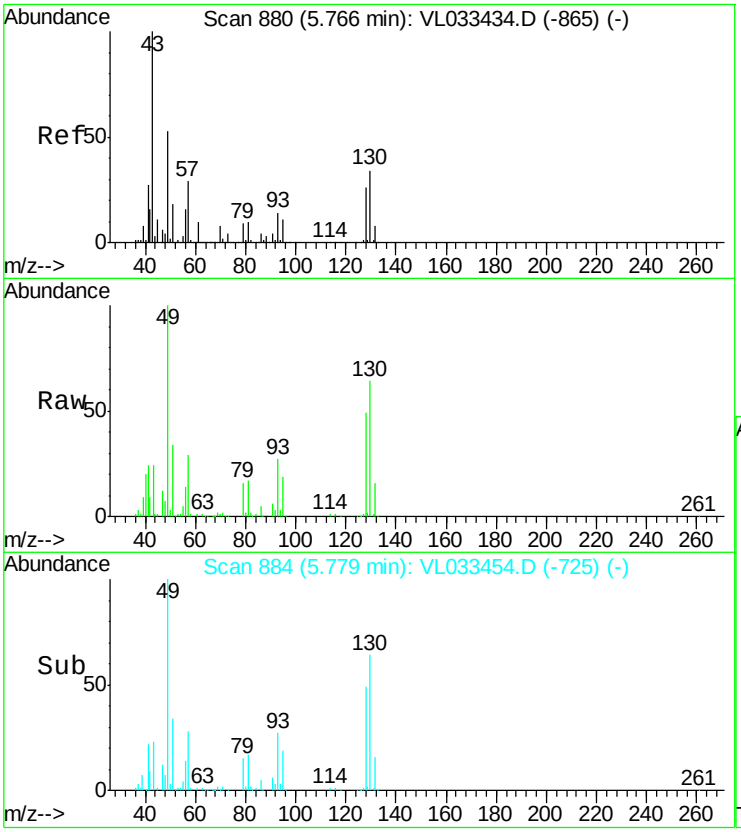


#23
Vinyl Acetate
Concen: 0.035 ppbv
RT: 5.13 min Scan# 682
Delta R.T. -0.02 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 43 Resp: 3946

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.6	8.4#
42	88.2	8.0	12.0#
44	0.0	3.9	5.9#



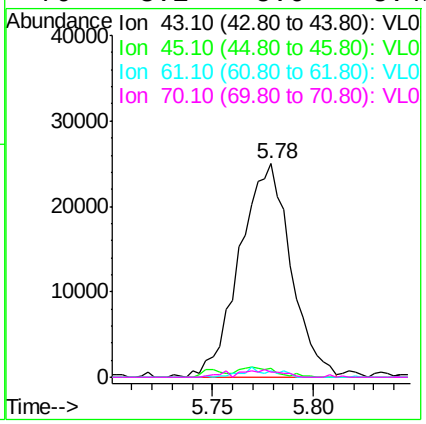


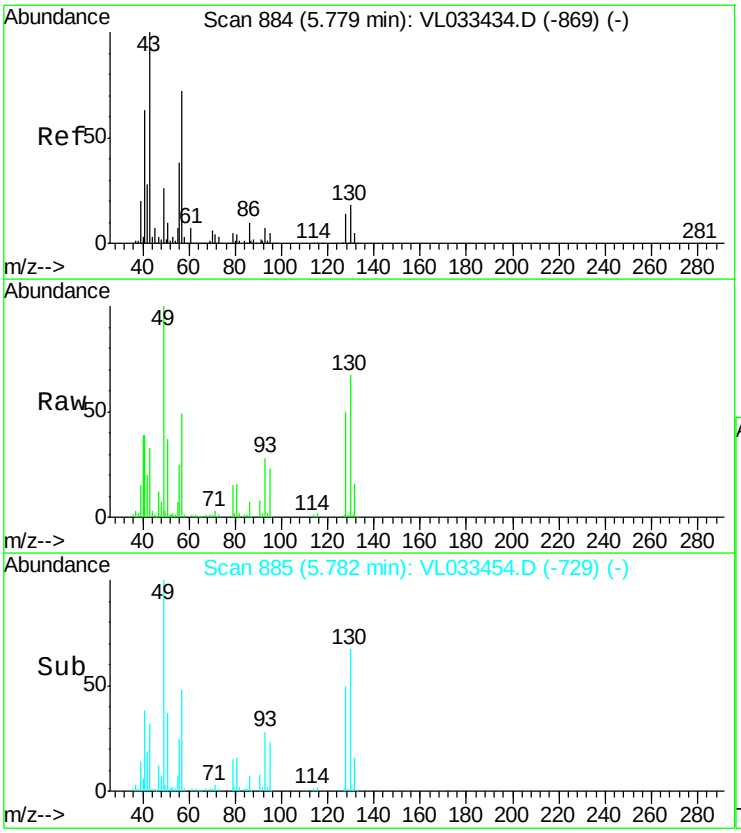
#25
Ethyl Acetate
Concen: 0.300 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 43 Resp: 44219

Ion	Ratio	Lower	Upper
43	100		
45	5.0	7.8	11.6#
61	2.8	7.3	10.9#
70	3.1	5.6	8.4#

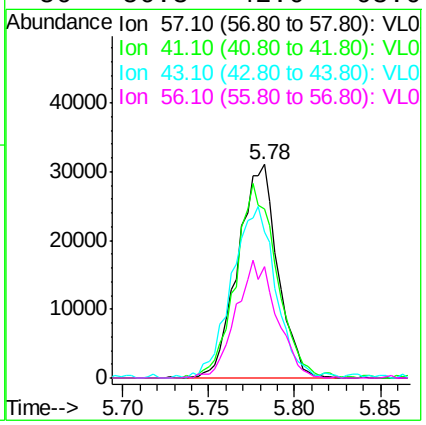


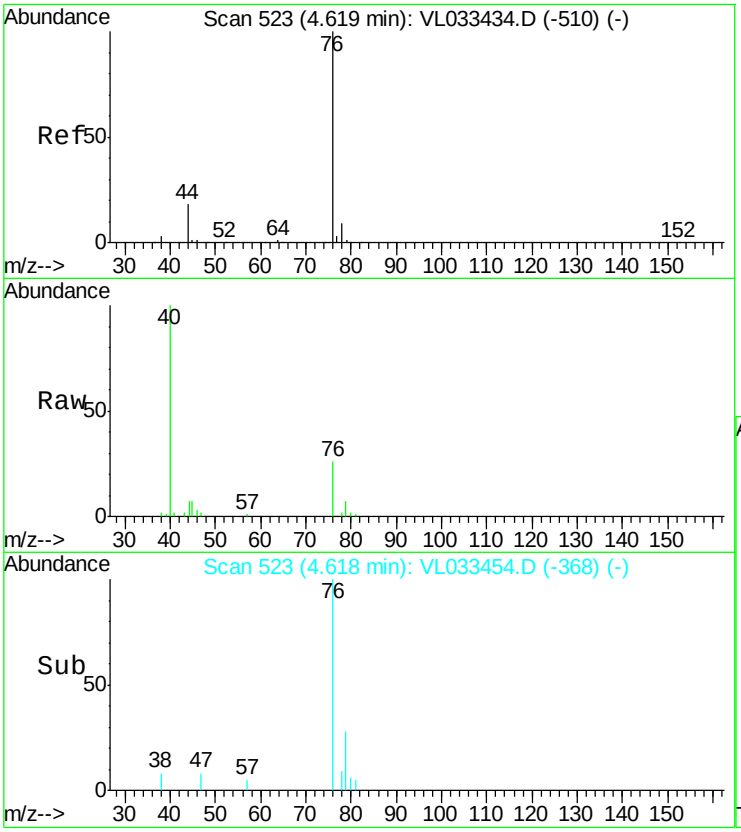


#26
Hexane
Concen: 0.762 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 57 Resp: 49990

Ion	Ratio	Lower	Upper
57	100		
41	94.4	70.7	106.1
43	90.8	182.6	274.0#
56	56.3	42.0	63.0



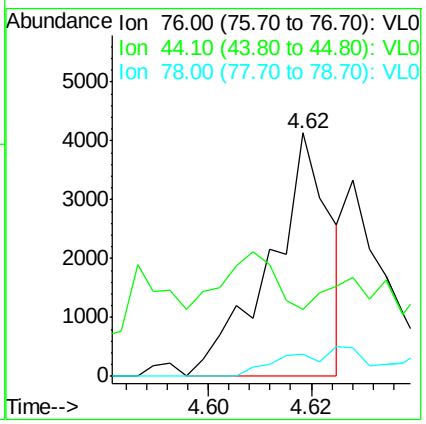


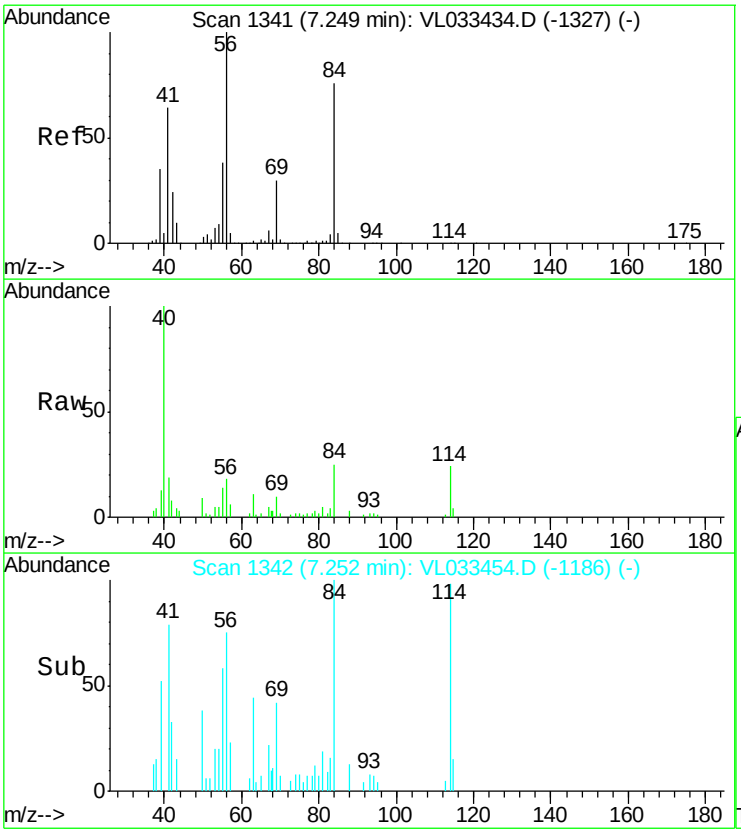
#27
Carbon Disulfide
Concen: 0.042 ppbv
RT: 4.62 min Scan# 523
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 76 Resp: 3308

Ion	Ratio	Lower	Upper
76	100		
44	84.6	14.8	22.2#
78	0.0	7.6	11.4#

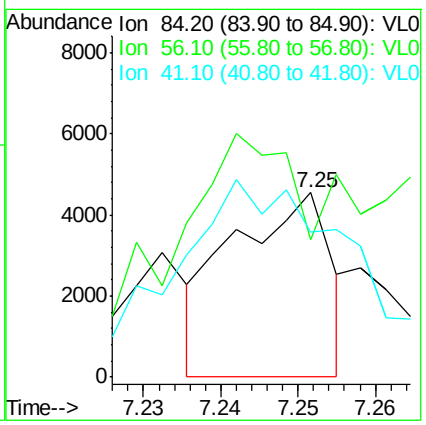


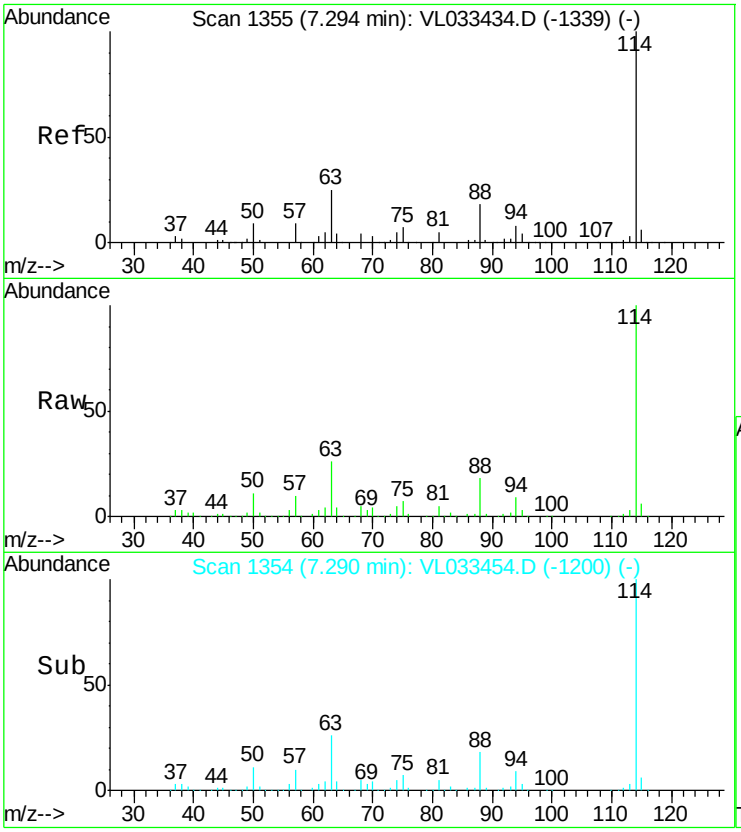


#30
Cyclohexane
Concen: 0.078 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 84 Resp: 4028

Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.7	164.5#
41	247.6	68.2	102.2#



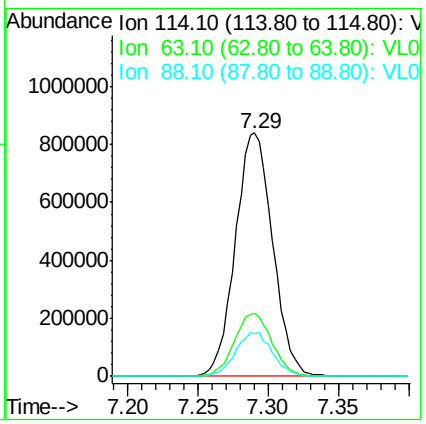


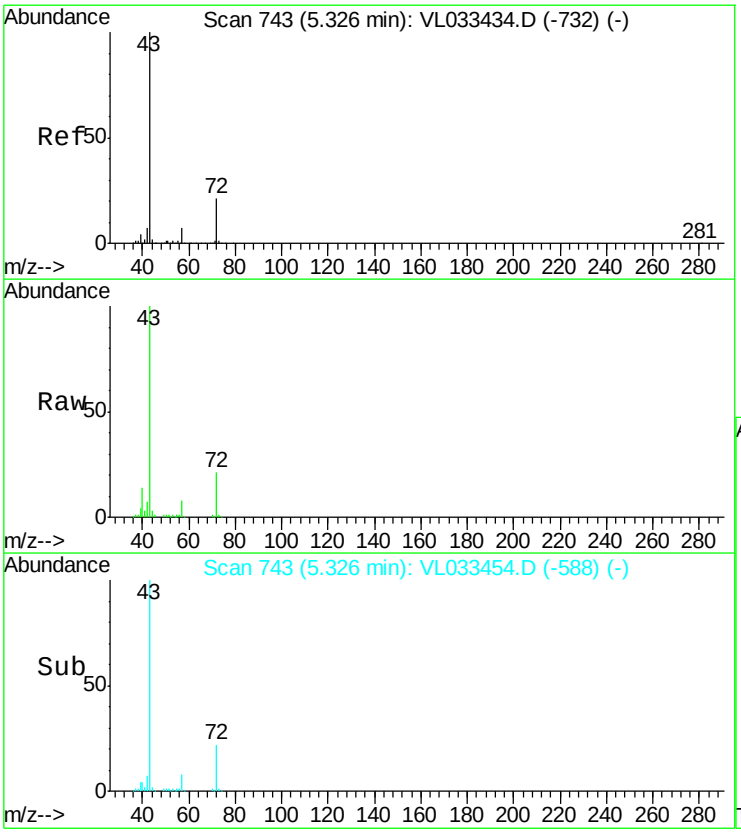
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion:114 Resp: 1559210

Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.5	32.3
88	17.9	14.5	21.7

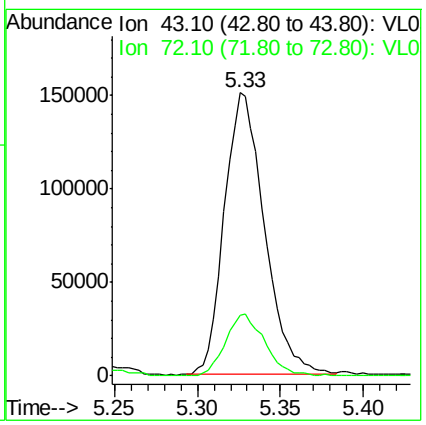


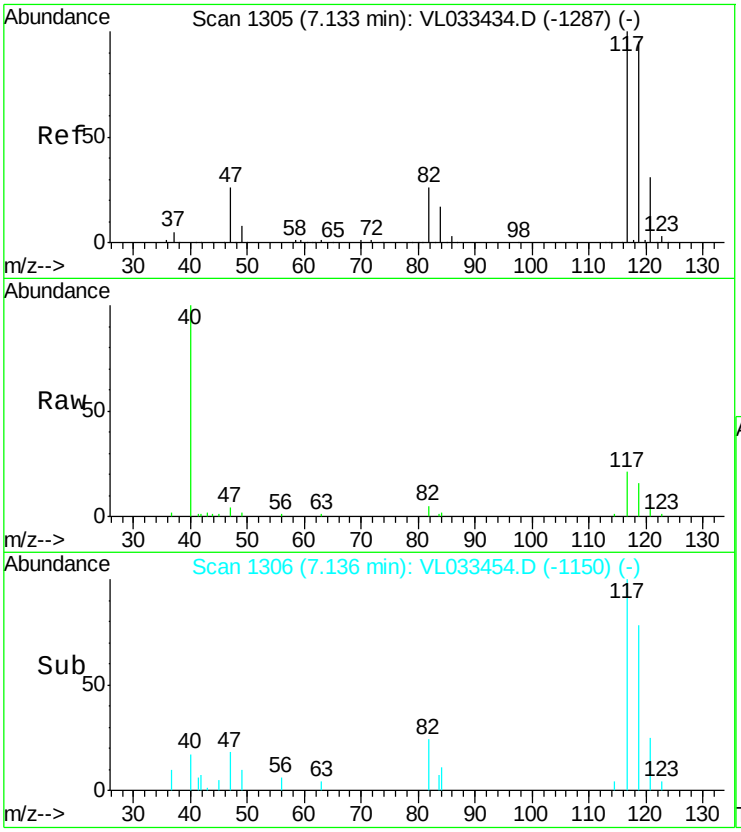


#34
2-Butanone
Concen: 2.693 ppbv
RT: 5.33 min Scan# 743
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 43 Resp: 252287

Ion	Ratio	Lower	Upper
43	100		
72	21.6	17.4	26.2



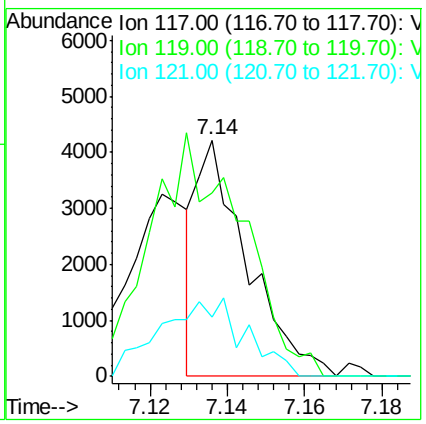


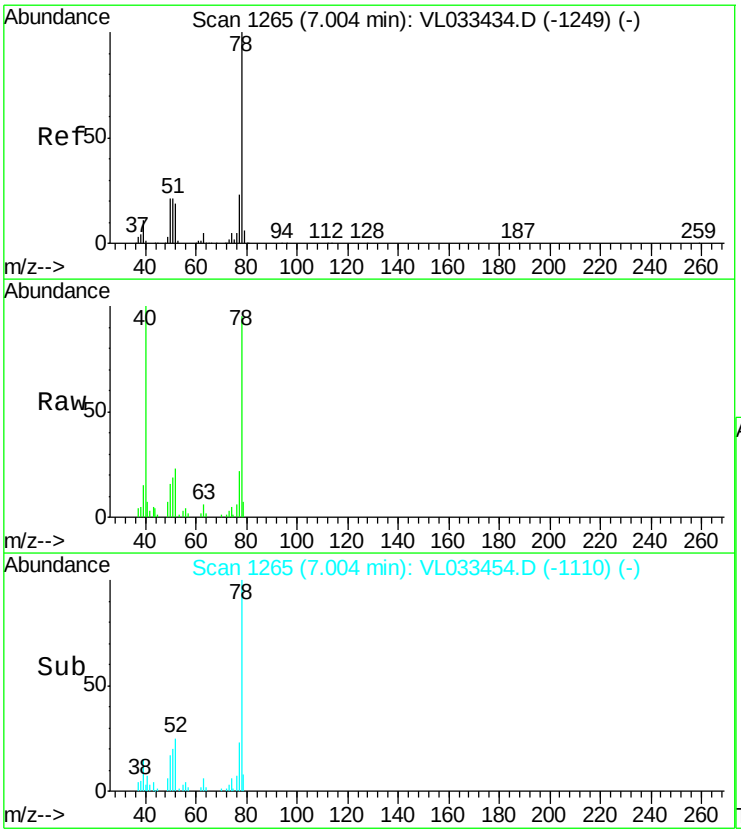
#35
Carbon Tetrachloride
Concen: 0.038 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion:117 Resp: 3848

Ion	Ratio	Lower	Upper
117	100		
119	77.8	75.8	113.8
121	24.9	24.7	37.1

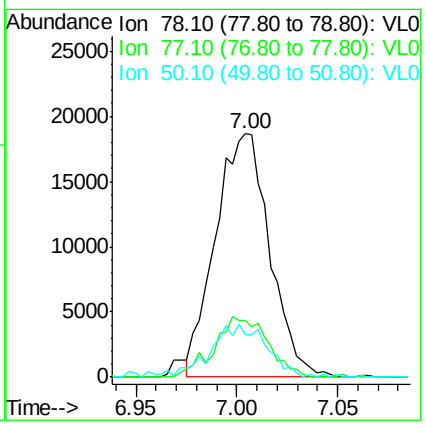


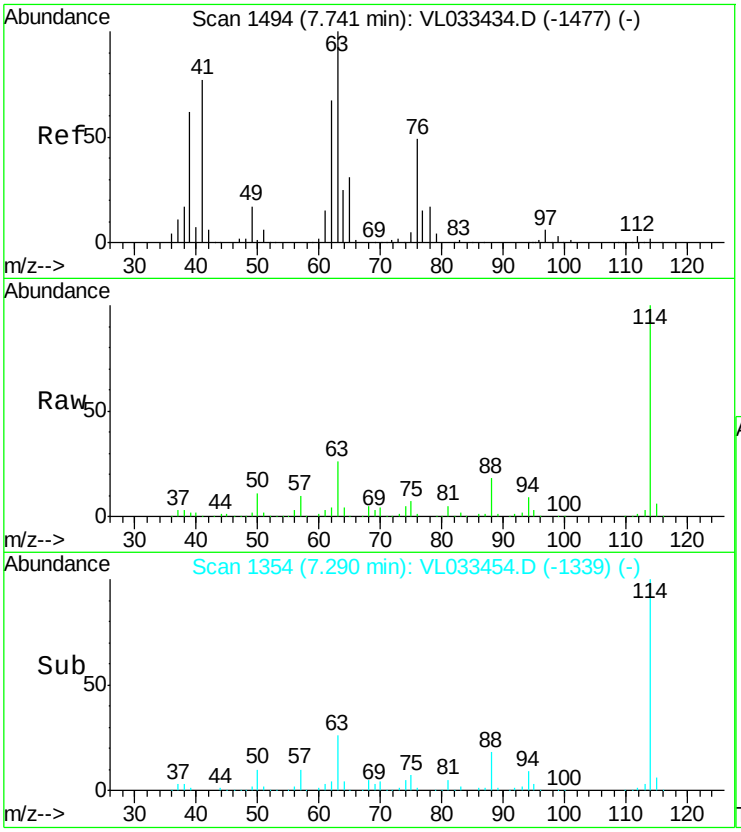


#36
Benzene
Concen: 0.269 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 78 Resp: 35153

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.1	27.1
50	16.1	16.7	25.1#



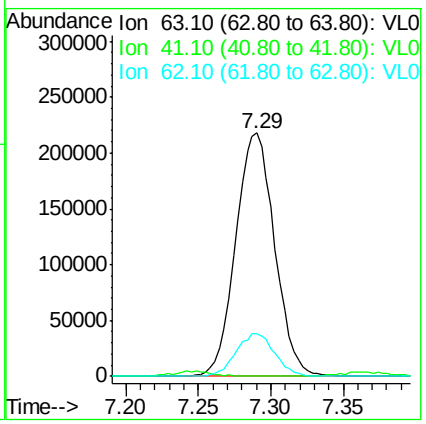


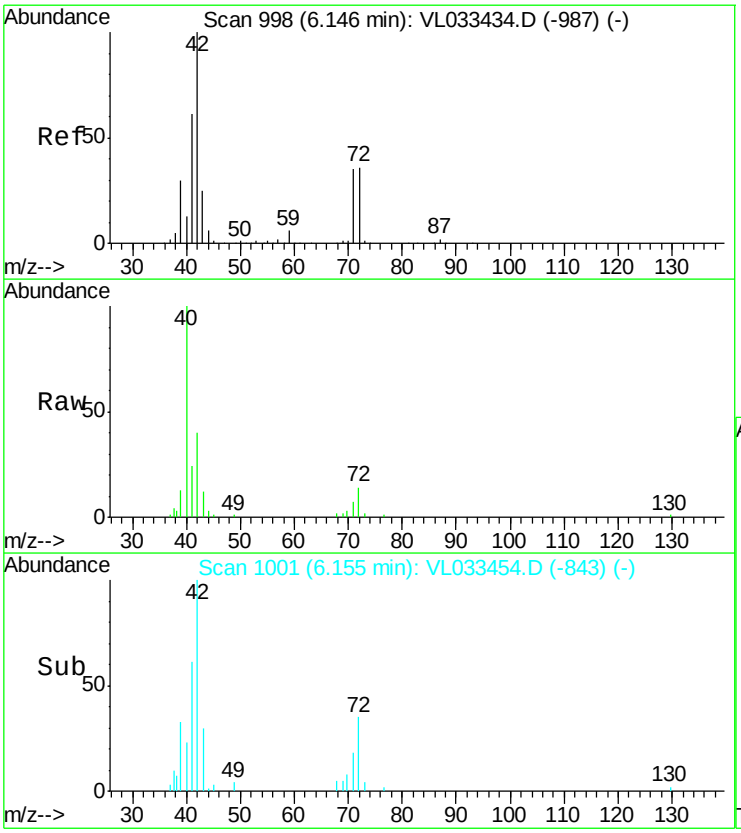
#39
1,2-Dichloropropane
Concen: 7.900 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.45 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 63 Resp: 404879

Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.2	91.8#
62	17.3	54.0	81.0#

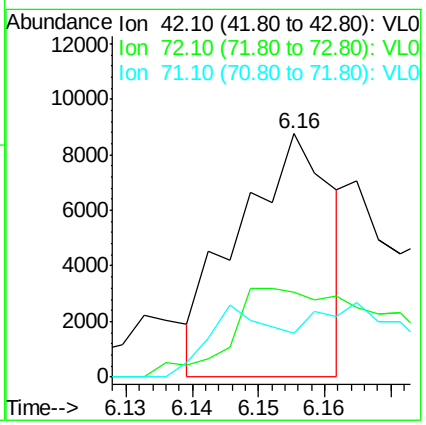


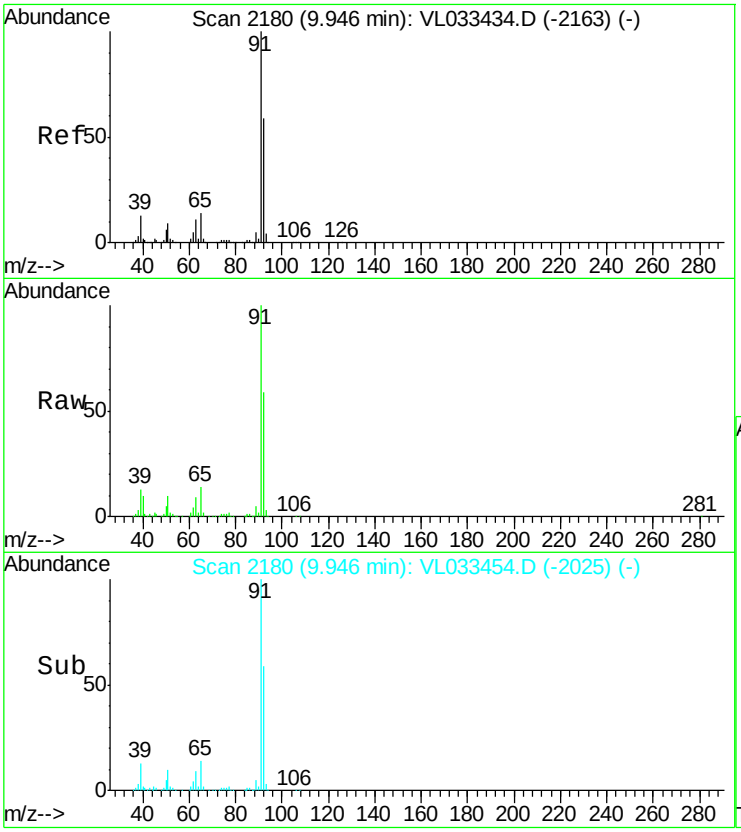


#41
Tetrahydrofuran
Concen: 0.167 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. 0.01 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 42 Resp: 8602

Ion	Ratio	Lower	Upper
42	100		
72	69.7	30.2	45.2#
71	0.0	29.4	44.2#



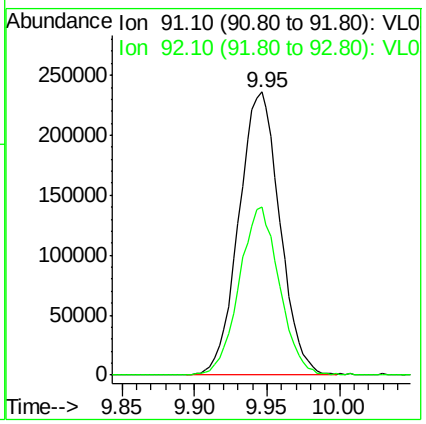


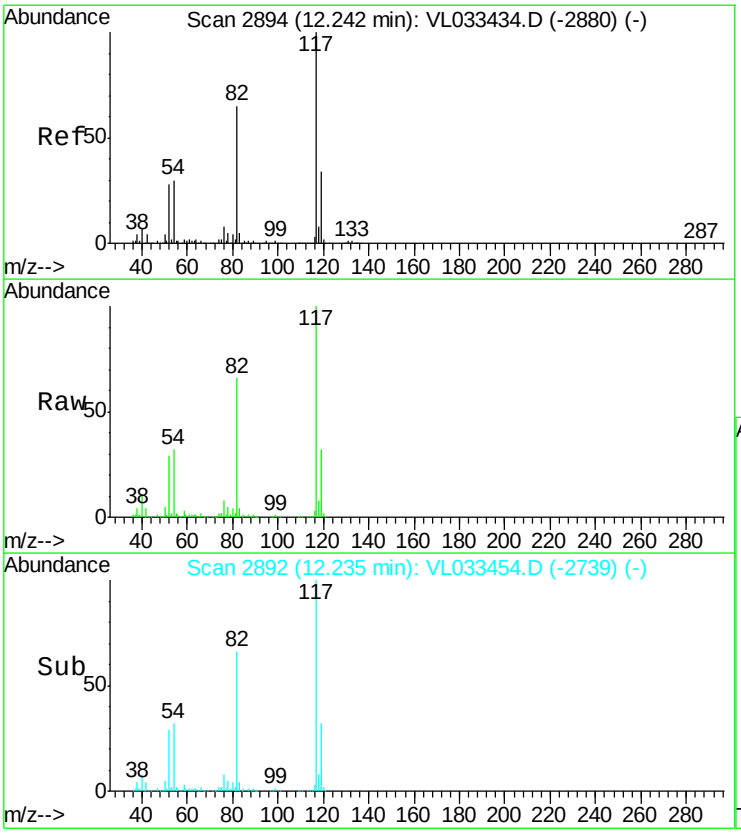
#53
Toluene
Concen: 3.055 ppbv
RT: 9.95 min Scan# 2180
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 91 Resp: 464397

Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.4	71.0

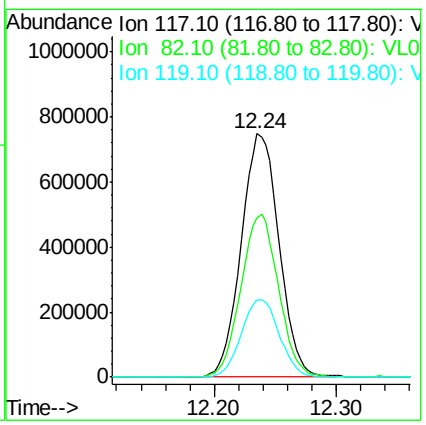


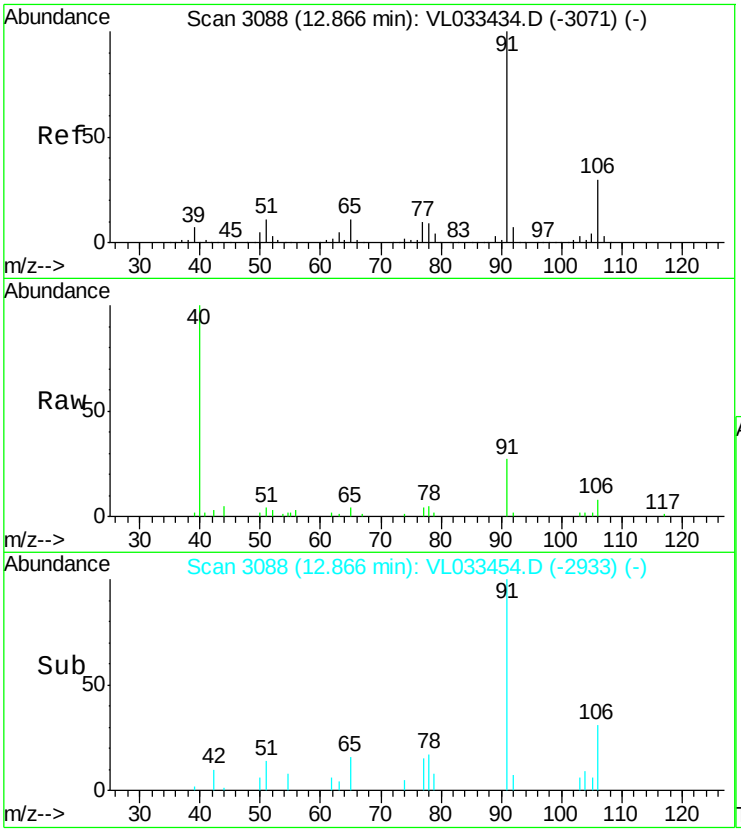


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion:117 Resp: 1598648

Ion	Ratio	Lower	Upper
117	100		
82	66.4	51.5	77.3
119	32.2	25.5	38.3



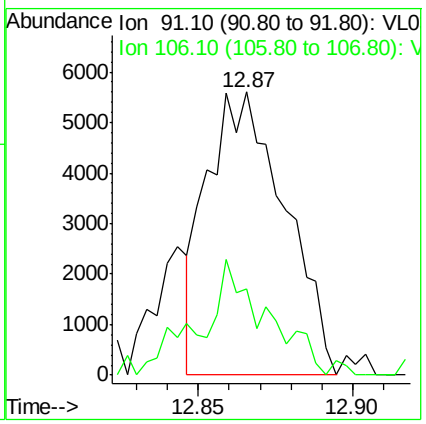


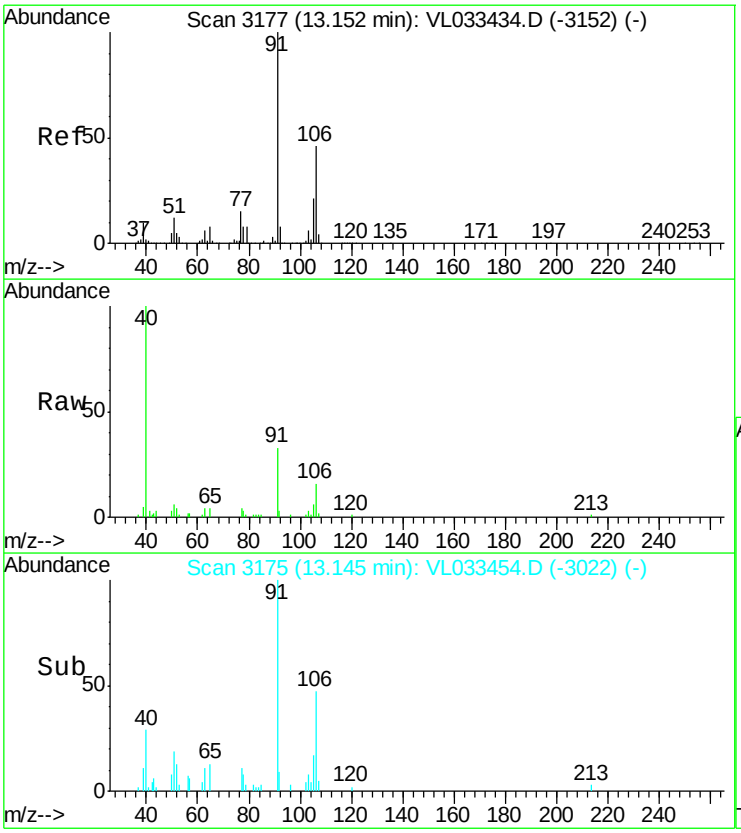
#58
Ethyl Benzene
Concen: 0.046 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 91 Resp: 9785

Ion	Ratio	Lower	Upper
91	100		
106	25.5	23.8	35.6

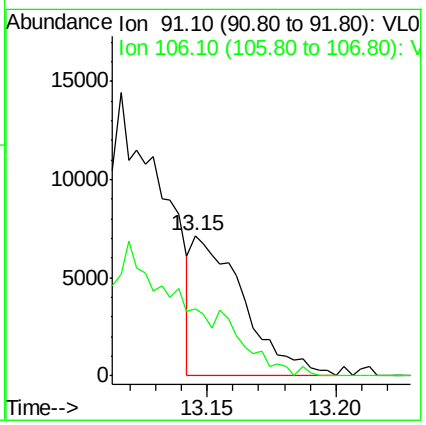


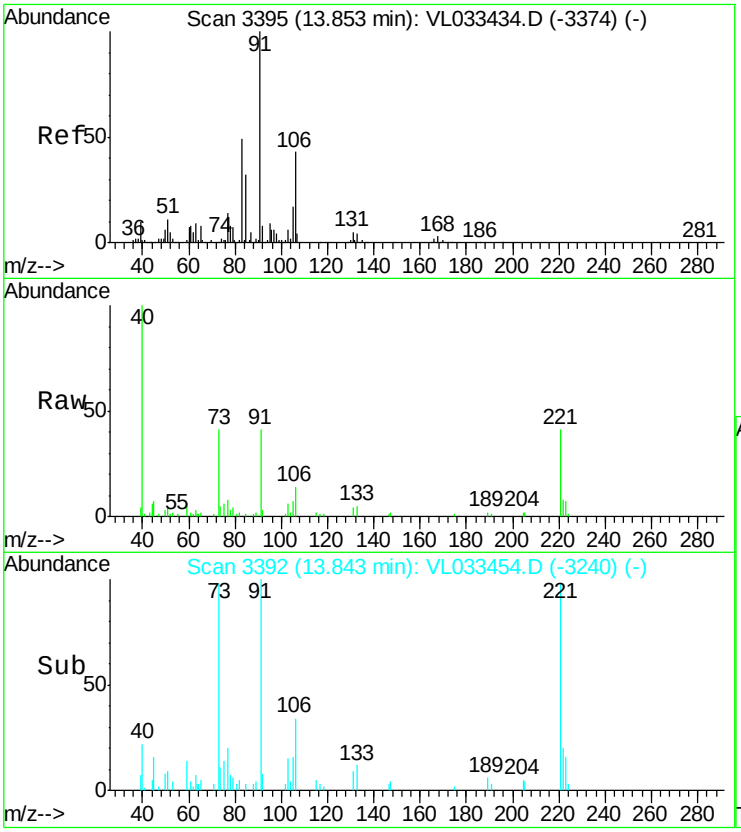


#59
m/p-Xylene
Concen: 0.052 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.01 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 91 Resp: 9885

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



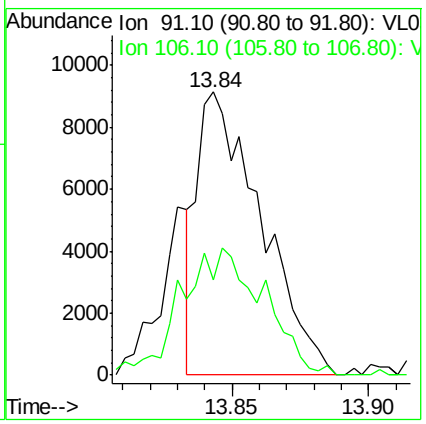


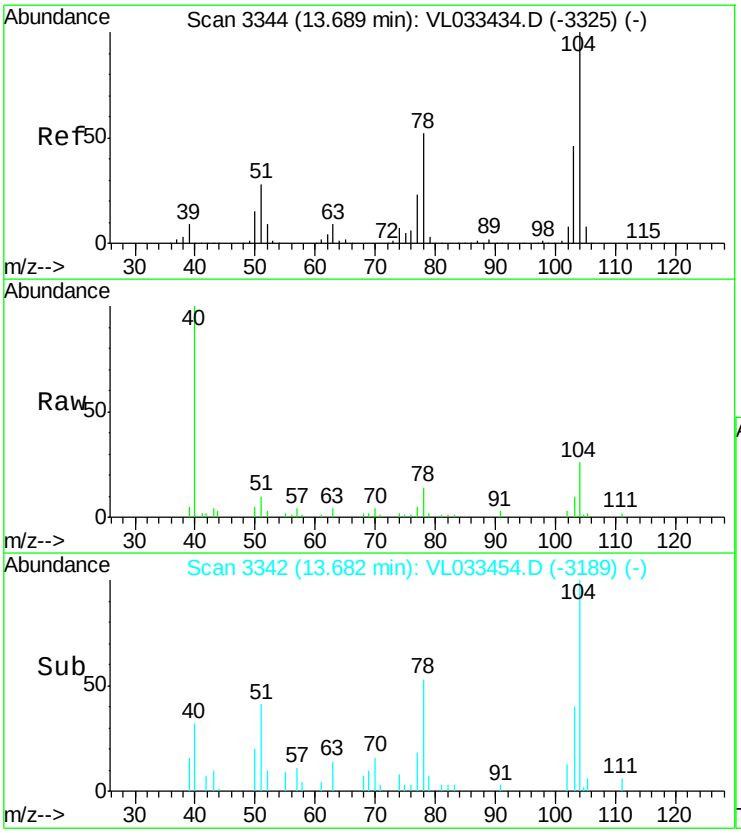
#60
o-Xylene
Concen: 0.080 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 91 Resp: 14782

Ion	Ratio	Lower	Upper
91	100		
106	58.7	21.4	64.3

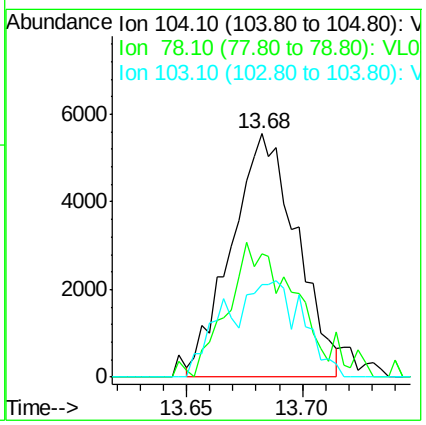


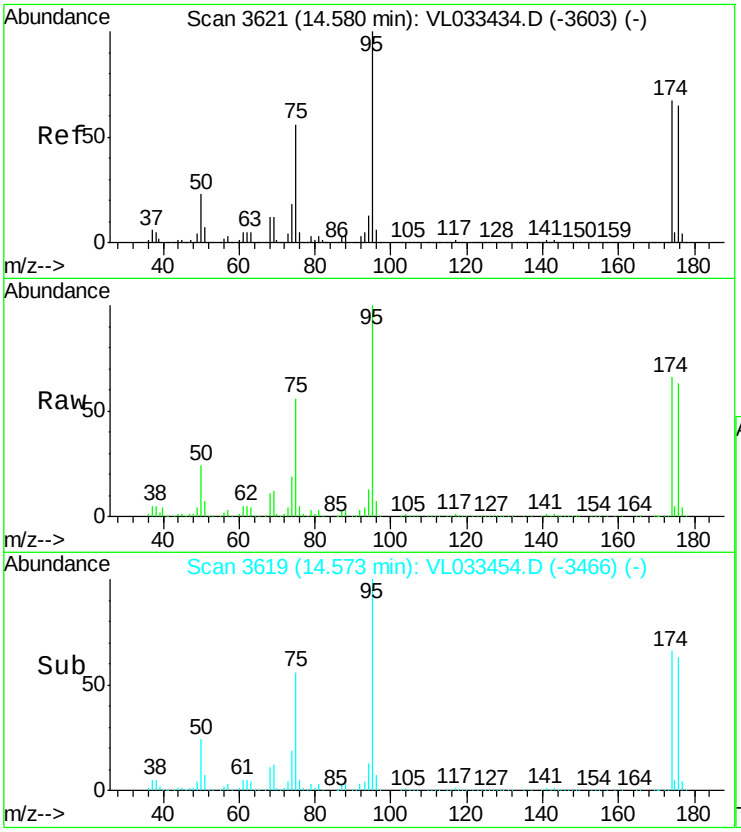


#61
Styrene
Concen: 0.086 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.01 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion:104 Resp: 10940

Ion	Ratio	Lower	Upper
104	100		
78	59.7	43.2	64.8
103	46.6	37.8	56.8



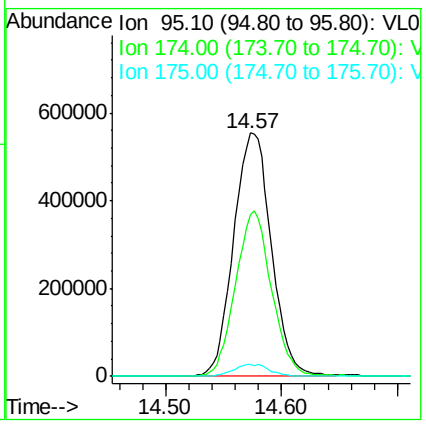


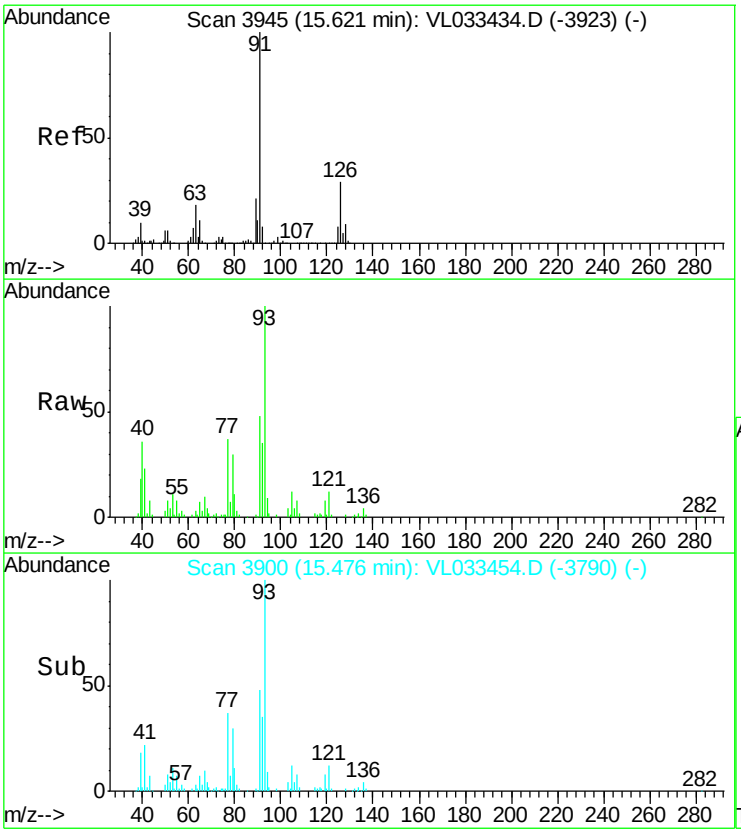
#68
1-Bromo-4-Fluorobenzene
Concen: 9.978 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion: 95 Resp: 1250561

Ion	Ratio	Lower	Upper
95	100		
174	65.3	52.9	79.3
175	4.7	3.8	5.6

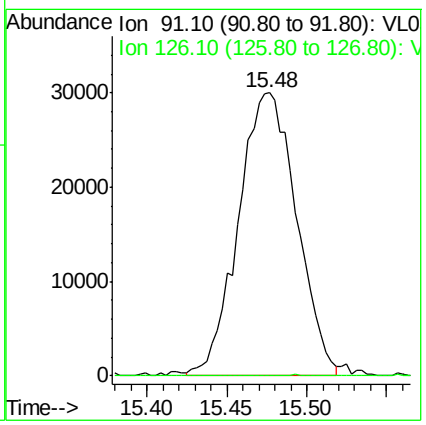


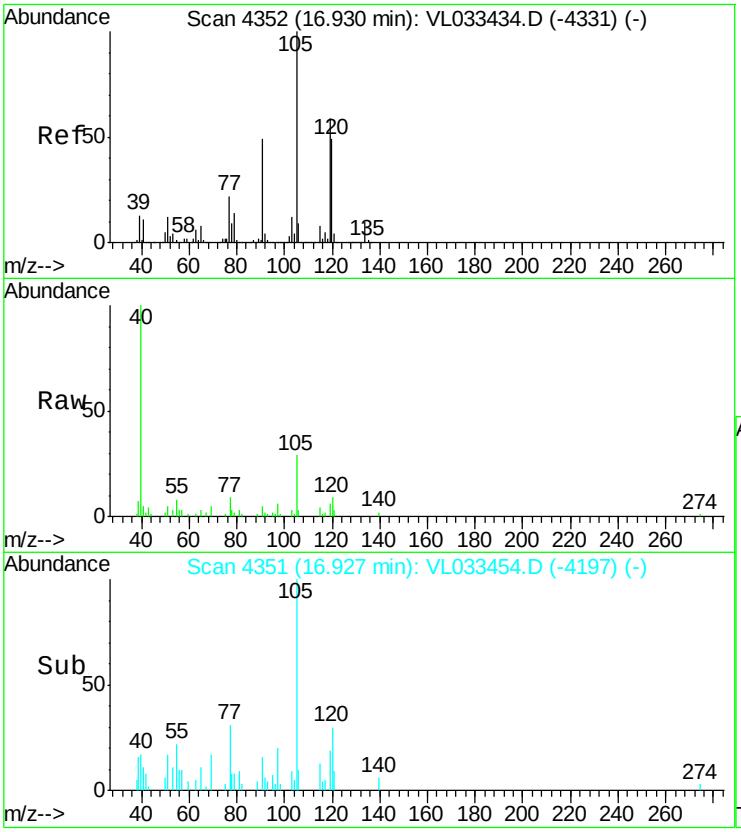


#71
2-Chlorotoluene
Concen: 0.378 ppbv
RT: 15.48 min Scan# 3900
Delta R.T. -0.14 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion: 91 Resp: 74984

Ion	Ratio	Lower	Upper
91	100		
126	0.1	11.7	46.9#



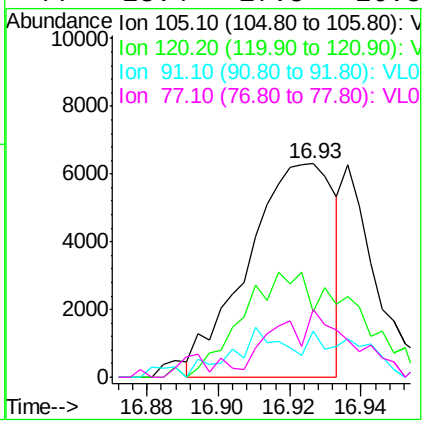


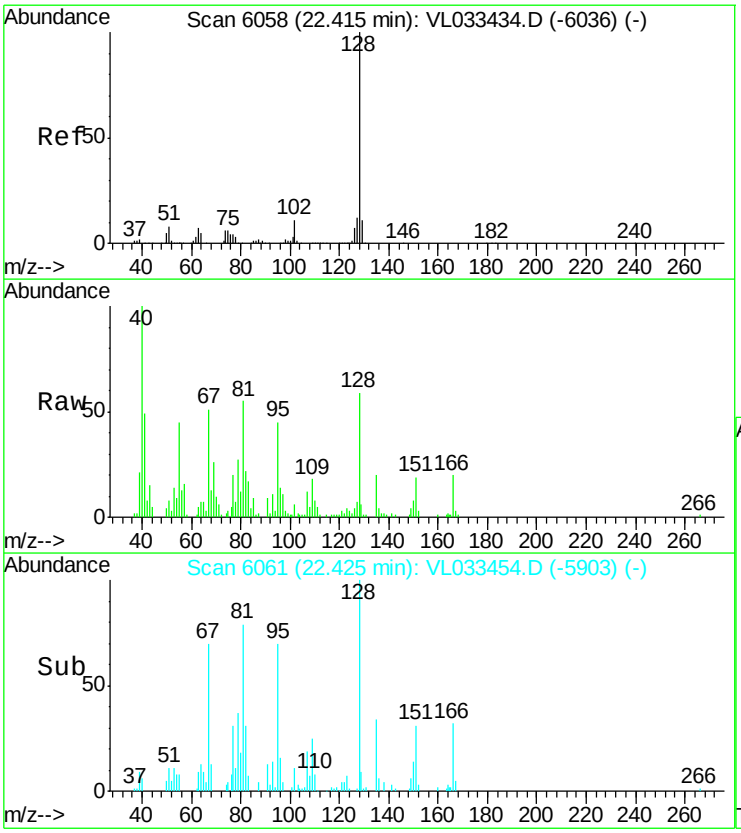
#74
1,2,4-Trimethylbenzene
Concen: 0.050 ppbv
RT: 16.93 min Scan# 4351
Delta R.T. -0.00 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument : MSVOA_L
ClientSampleId : IA-3

Tgt Ion:105 Resp: 10550

Ion	Ratio	Lower	Upper
105	100		
120	32.7	39.0	58.6#
91	23.2	40.0	60.0#
77	23.4	17.5	26.3

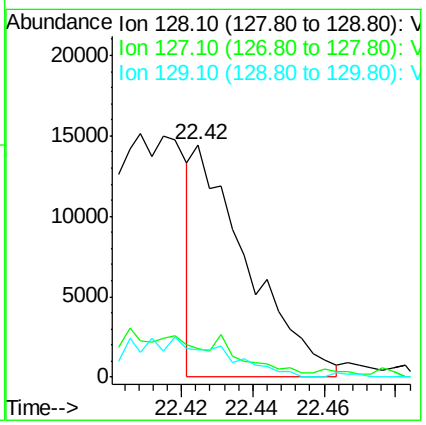


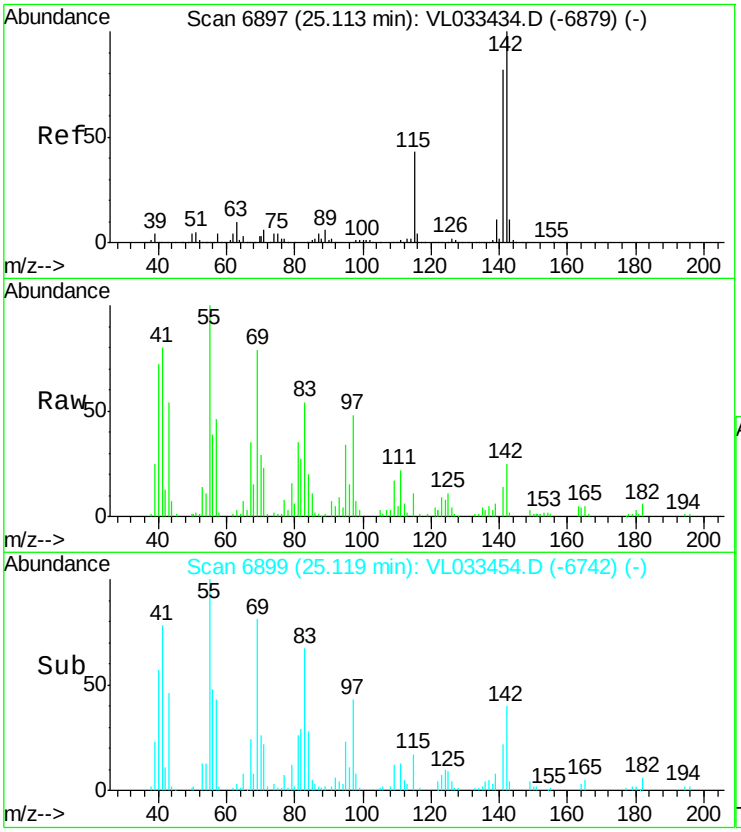


#79
Naphthalene
Concen: 0.084 ppbv
RT: 22.42 min Scan# 6061
Delta R.T. 0.01 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Tgt Ion:128 Resp: 15202

Ion	Ratio	Lower	Upper
128	100		
127	10.7	9.8	14.8
129	10.3	8.6	12.8





#80
Naphthalene,2-methyl-
Concen: 0.250 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. 0.01 min
Lab File: VL033454.D
Acq: 26 Mar 2019 2:47

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion:142 Resp: 15244

Ion	Ratio	Lower	Upper
142	100		
141	87.1	66.6	99.8
115	41.4	34.4	51.6