Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071918\
Data File : VL032297.D
Acq On : 19 Jul 2018 20:56
Operator : SY/AP
Sample : J4063-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jul 20 02:10:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18 14:38:53 2018
QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.84	49	1539545	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.37	114	3221119	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.33	117	3640422	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.67	95	2927085	9.92	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.13	85	69978	0.267	ppbv		98
3) Chlorodifluoromethane	3.06	51	354437	2.051	ppbv		94
4) Chloromethane	3.22	50	50867	0.500	ppbv		89
8) Dichlorotetrafluoroethane	3.27	85	4332	0.020	ppbv		89
9) Propene	3.10	41	41002	0.543	ppbv		84
11) Trichlorofluoromethane	4.06	101	32328	0.158	ppbv		96
12) 1,1,2-Trichlorotrifluoroet	4.62	101	10541	0.081	ppbv		96
13) Ethanol	3.75	45	375233	17.393	ppbv		97
15) Acetone	3.96	43	1647322	10.224	ppbv		95
16) 1,3-Butadiene	3.41	39	2078	0.025	ppbv	#	6
17) tert-Butyl alcohol	4.44	59	5565	0.110	ppbv	#	72
19) Isopropyl Alcohol	4.13	45	159720	1.466	ppbv	#	1
20) Methylene Chloride	4.47	84	502153	8.095	ppbv		97
23) Vinyl Acetate	5.22	43	79290	0.274	ppbv	#	59
25) Ethyl Acetate	5.85	43	568128	1.619	ppbv	#	75
26) Hexane	5.85	57	709021	4.399	ppbv	#	46
27) Carbon Disulfide	4.69	76	7361	0.052	ppbv	#	1
29) Chloroform	5.92	83	6552	0.028	ppbv	#	79
30) Cyclohexane	7.32	84	8309	0.061	ppbv	#	1
34) 2-Butanone	5.40	43	155631	0.704	ppbv		96
36) Benzene	7.09	78	40250	0.127	ppbv		93
37) 1,2-Dichloroethane	6.49	62	75199	0.401	ppbv		96
39) 1,2-Dichloropropane	7.37	63	894551	7.126	ppbv	#	25
41) Tetrahydrofuran	6.23	42	14085	0.109	ppbv	#	90
44) 2,2,4-Trimethylpentane	8.07	57	31446	0.057	ppbv	#	43
53) Toluene	10.04	91	398874	1.038	ppbv		96
58) Ethyl Benzene	12.96	91	70694	0.138	ppbv		95
59) m/p-Xylene	13.21	91	156638	0.358	ppbv		100
60) o-Xylene	13.95	91	28954	0.066	ppbv	#	7
61) Styrene	13.78	104	25334	0.078	ppbv	#	55
69) p-Isopropyltoluene	17.90	119	17190	0.028	ppbv	#	49
72) 4-Ethyltoluene	16.10	105	15591	0.031	ppbv	#	37
74) 1,2,4-Trimethylbenzene	17.02	105	134678	0.261	ppbv	#	68
76) 1,4-Dichlorobenzene	17.39	146	84537	0.298	ppbv		94
79) Naphthalene	22.52	128	10345	0.024	ppbv	#	94

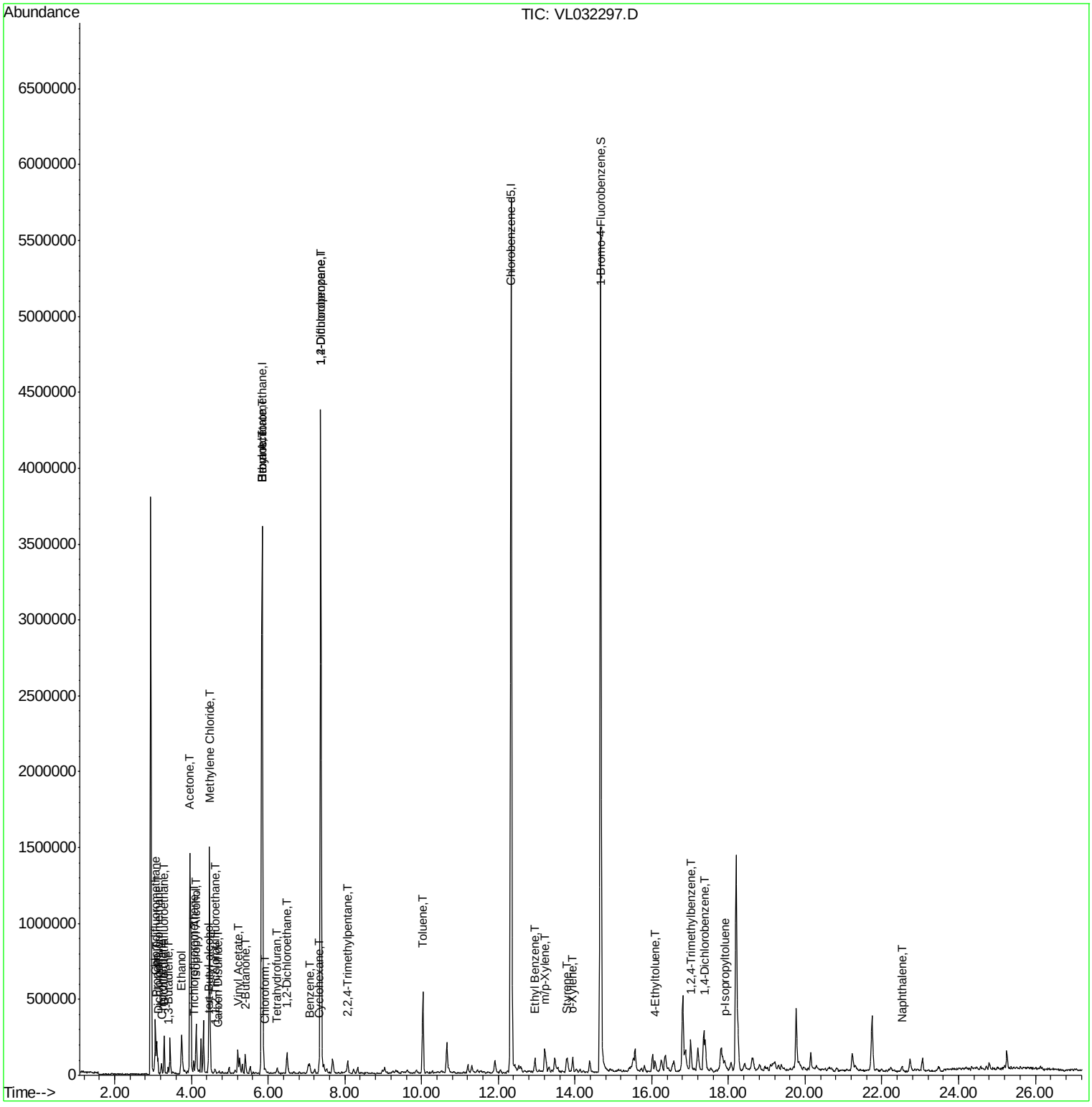
(#) = qualifier out of range (m) = manual integration (+) = signals summed

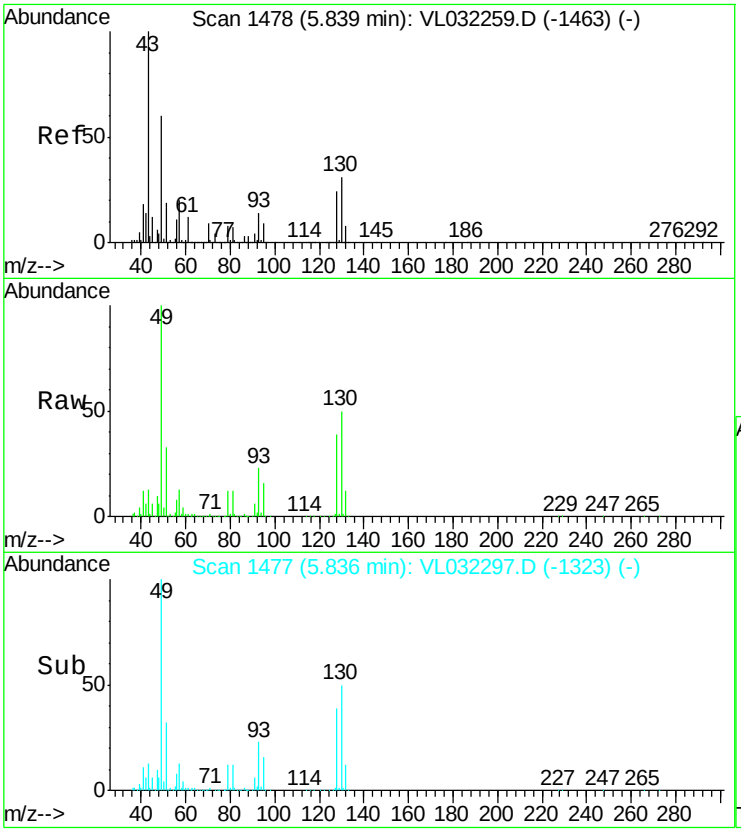
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071918\
Data File : VL032297.D
Acq On : 19 Jul 2018 20:56
Operator : SY/AP
Sample : J4063-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jul 20 02:10:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18 14:38:53 2018
QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration



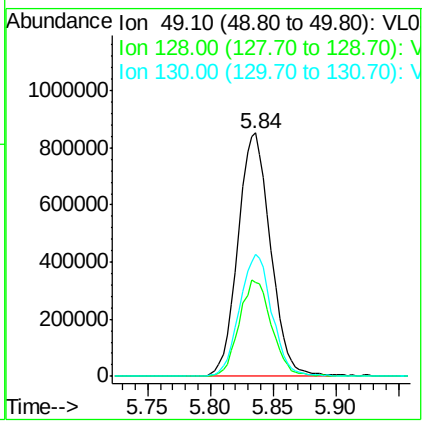


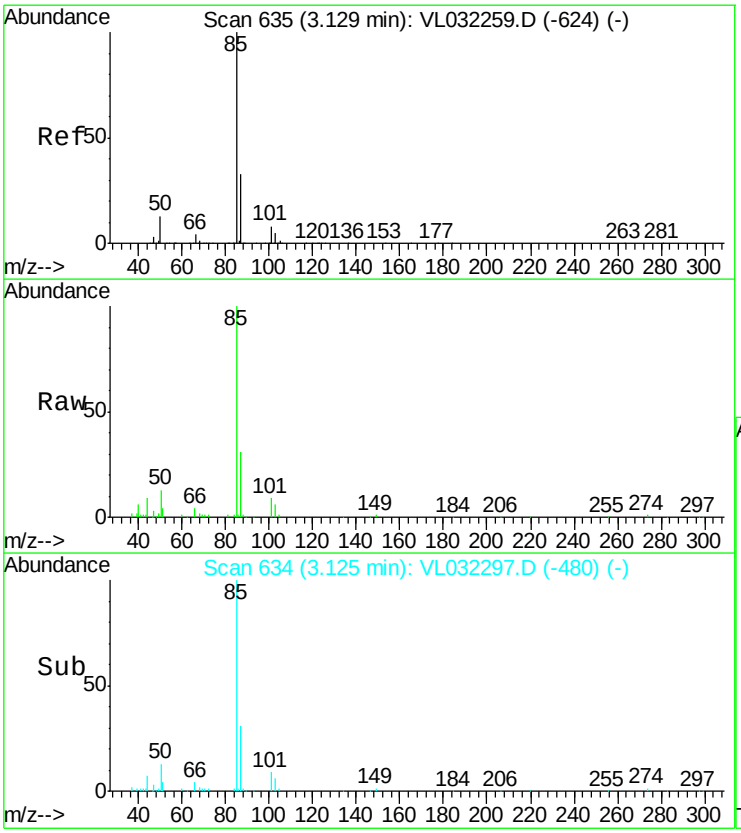
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 1539545

Ion	Ratio	Lower	Upper
49	100		
128	39.8	20.1	60.2
130	49.9	25.9	77.6

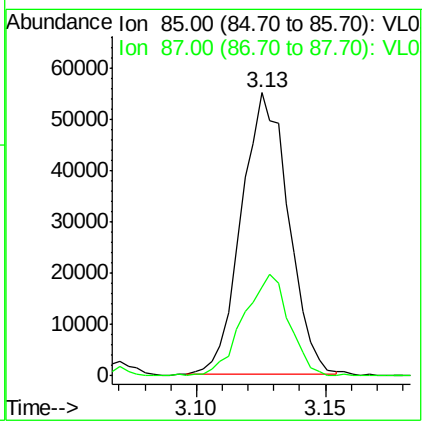


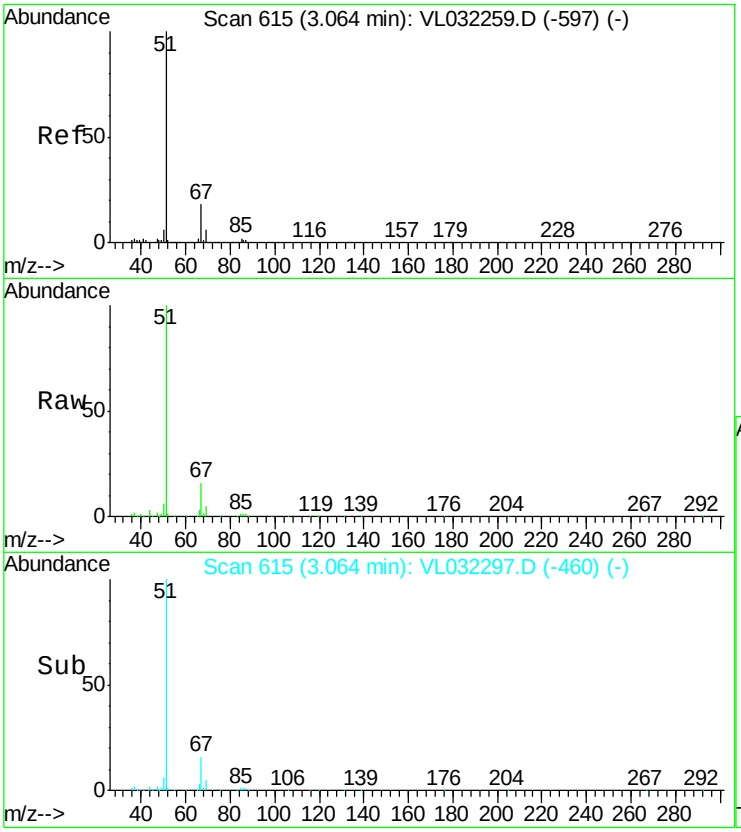


#2
Dichlorodifluoromethane
Concen: 0.267 ppbv
RT: 3.13 min Scan# 634
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 85 Resp: 69978

Ion	Ratio	Lower	Upper
85	100		
87	31.6	26.2	39.2



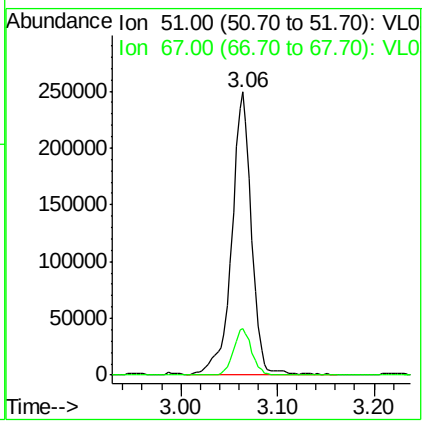


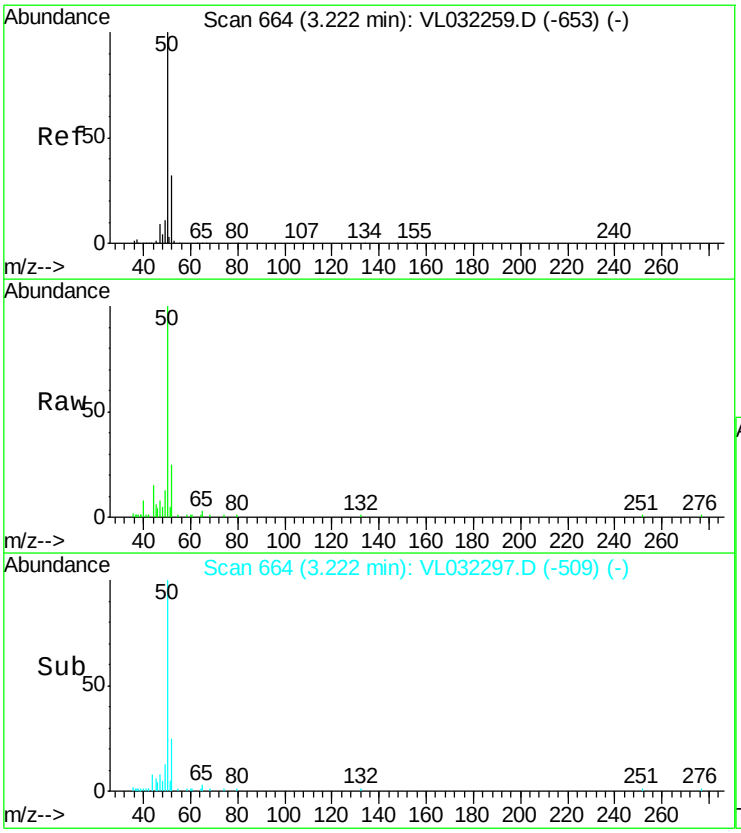
#3
Chlorodifluoromethane
Concen: 2.051 ppbv
RT: 3.06 min Scan# 615
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 354437

Ion	Ratio	Lower	Upper
51	100		
67	15.1	14.2	21.4

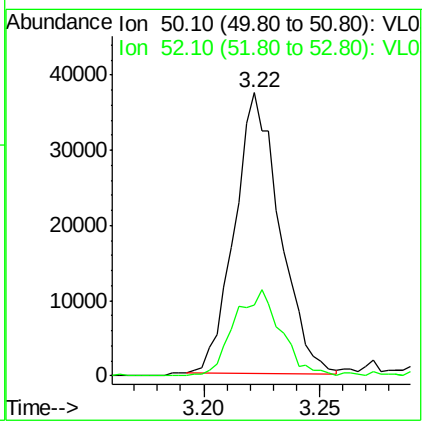


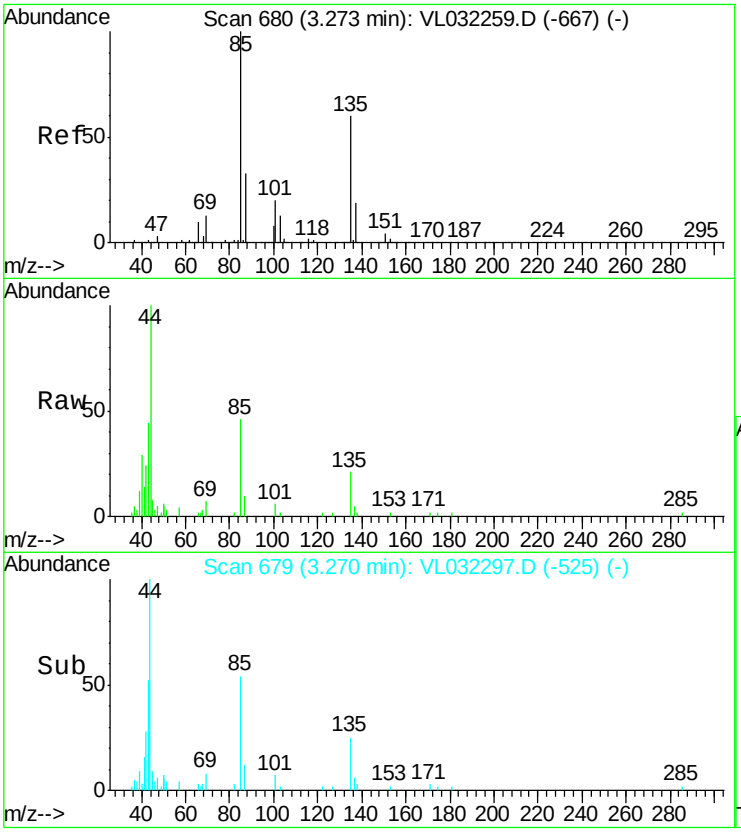


#4
Chloromethane
Concen: 0.500 ppbv
RT: 3.22 min Scan# 664
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 50 Resp: 50867

Ion	Ratio	Lower	Upper
50	100		
52	25.5	25.3	37.9



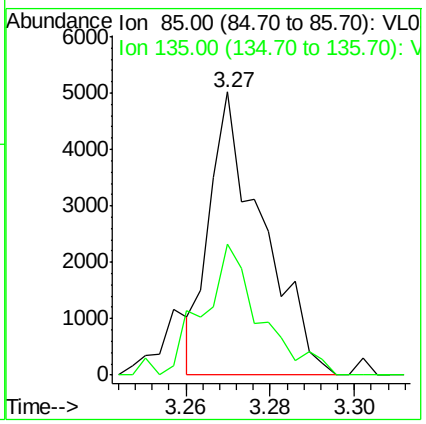


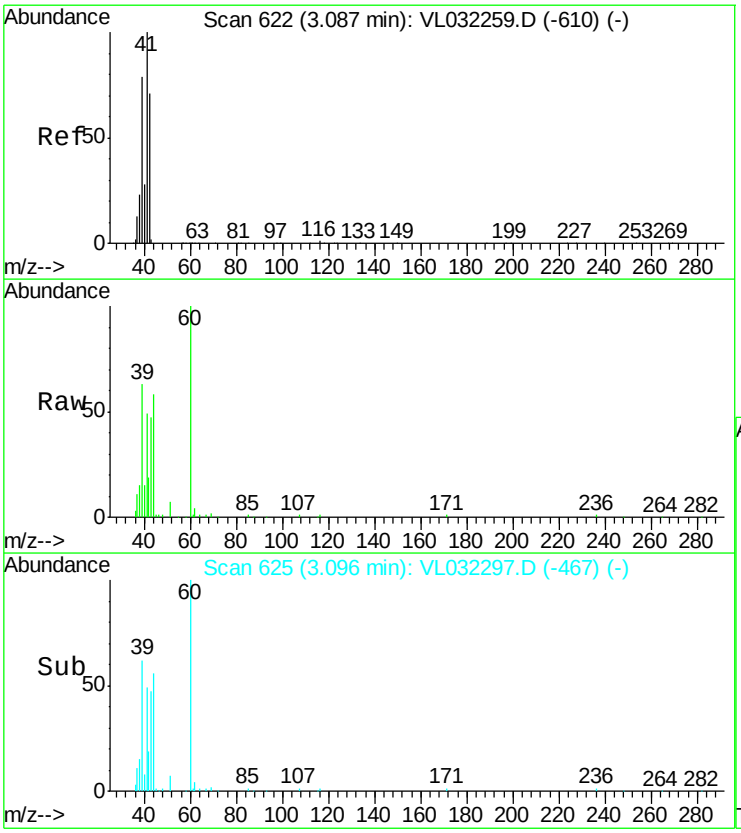
#8
Dichlorotetrafluoroethane
Concen: 0.020 ppbv
RT: 3.27 min Scan# 679
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 85 Resp: 4332

Ion	Ratio	Lower	Upper
85	100		
135	51.5	47.8	71.8

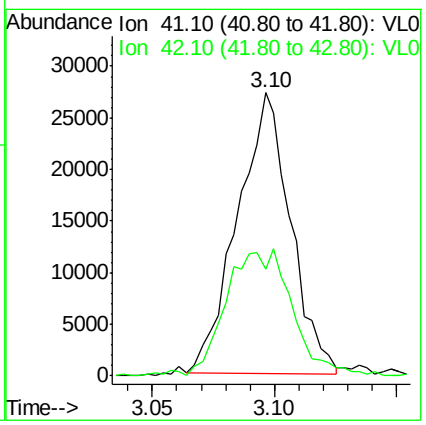


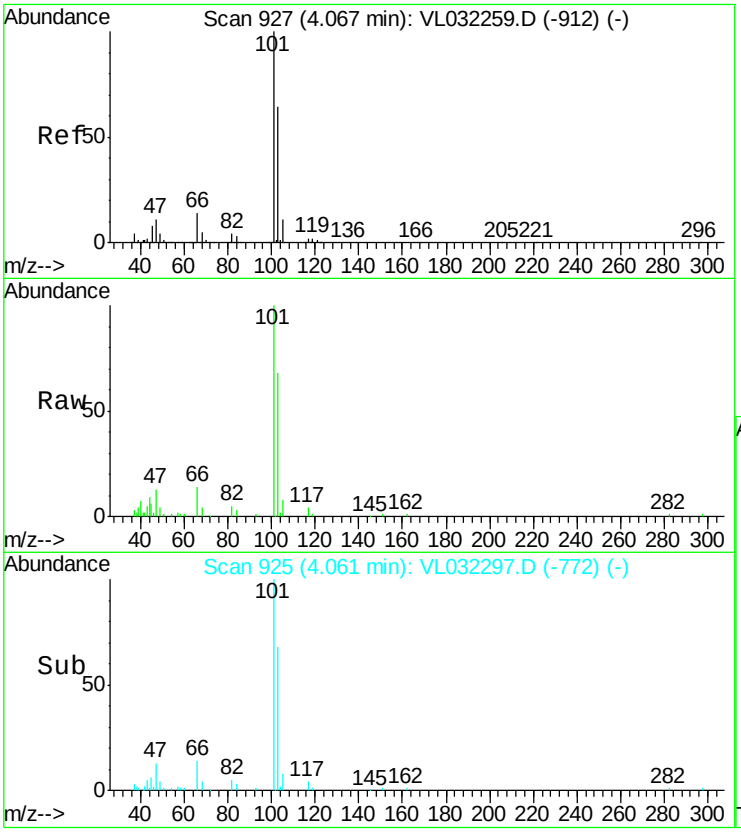


#9
Propene
Concen: 0.543 ppbv
RT: 3.10 min Scan# 625
Delta R.T. 0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 41 Resp: 41002

Ion	Ratio	Lower	Upper
41	100		
42	57.1	56.2	84.4



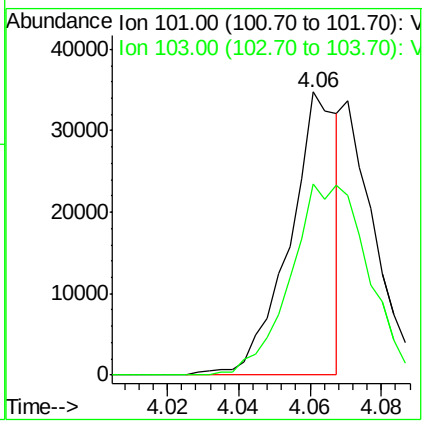


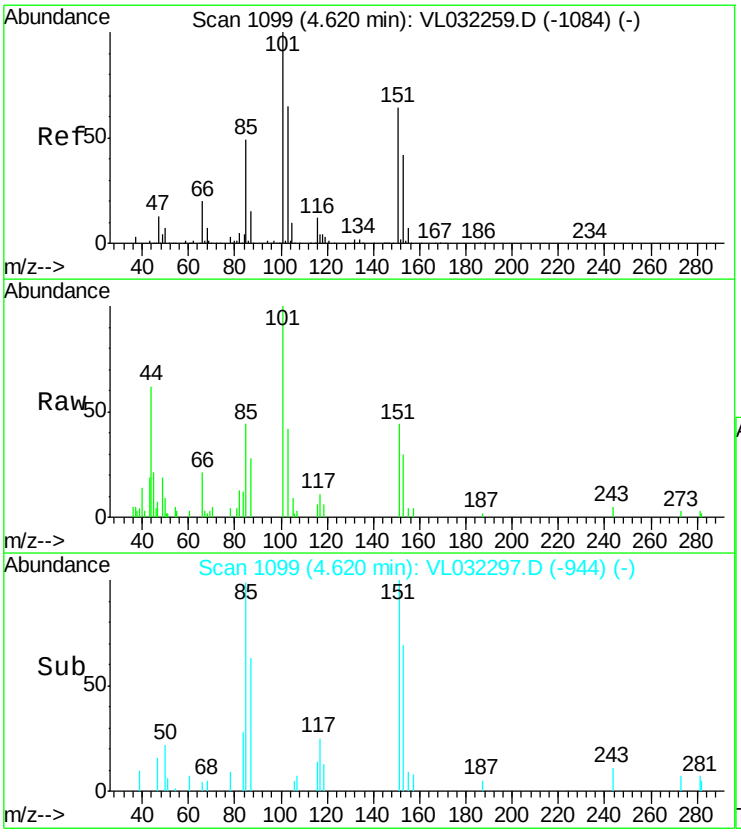
#11
Trichlorofluoromethane
Concen: 0.158 ppbv
RT: 4.06 min Scan# 925
Delta R.T. -0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:101 Resp: 32328

Ion	Ratio	Lower	Upper
101	100		
103	67.7	51.5	77.3

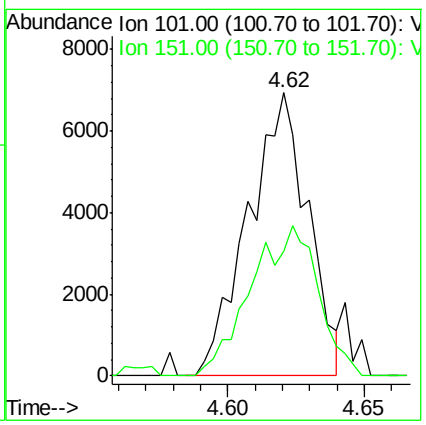


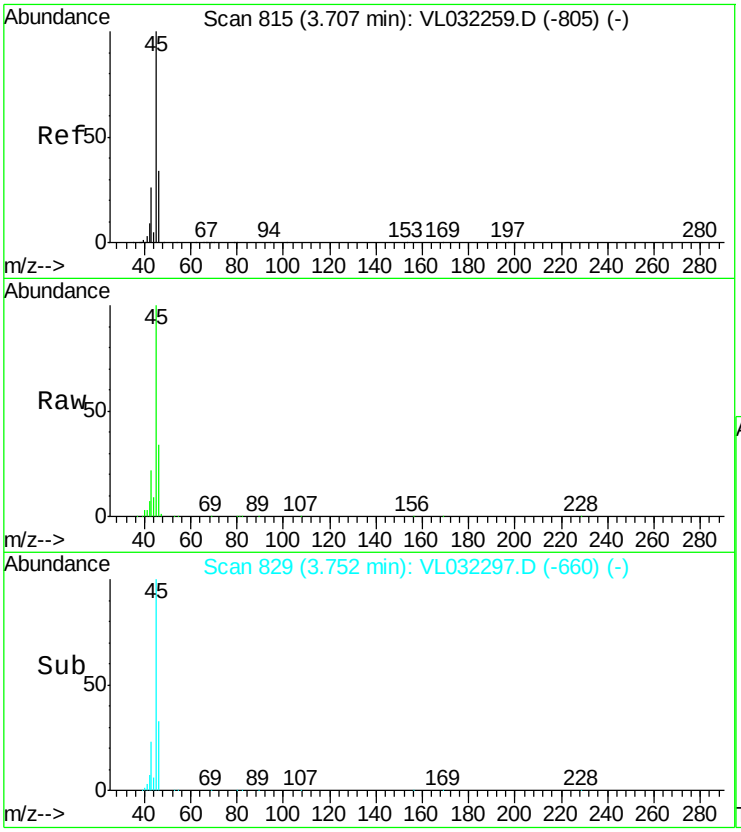


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.081 ppbv
RT: 4.62 min Scan# 1099
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion:101 Resp: 10541

Ion	Ratio	Lower	Upper
101	100		
151	61.3	51.3	76.9



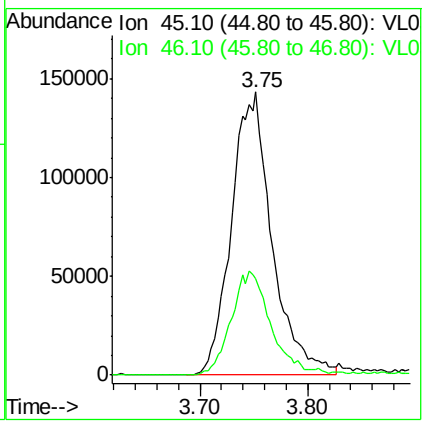


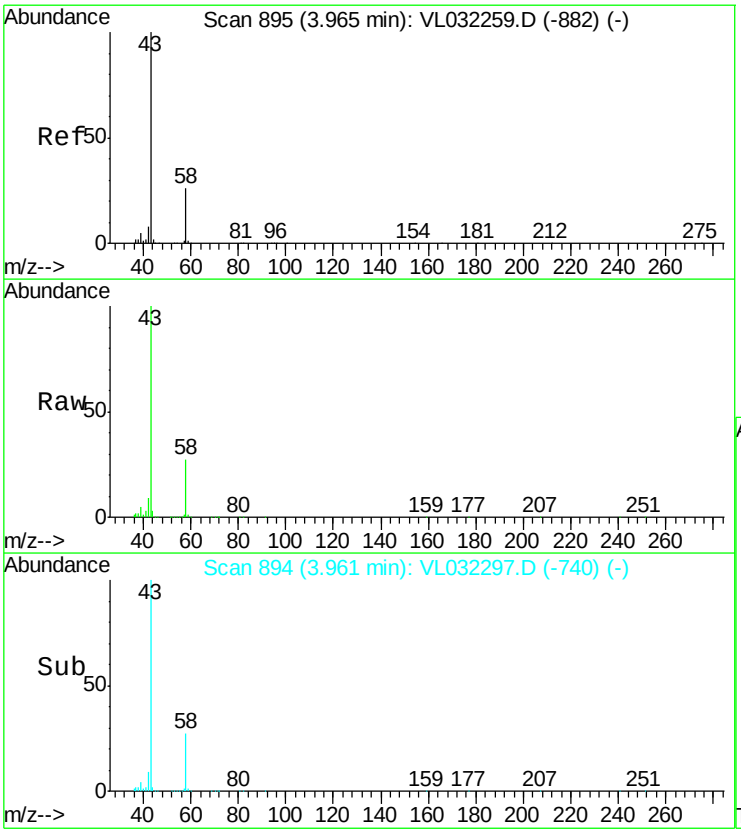
#13
Ethanol
Concen: 17.393 ppbv
RT: 3.75 min Scan# 829
Delta R.T. 0.04 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 45 Resp: 375233

Ion	Ratio	Lower	Upper
45	100		
46	36.2	15.2	60.8

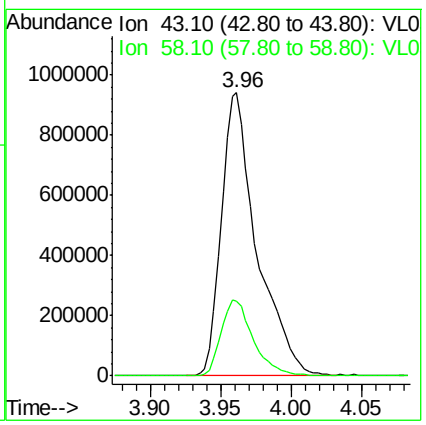


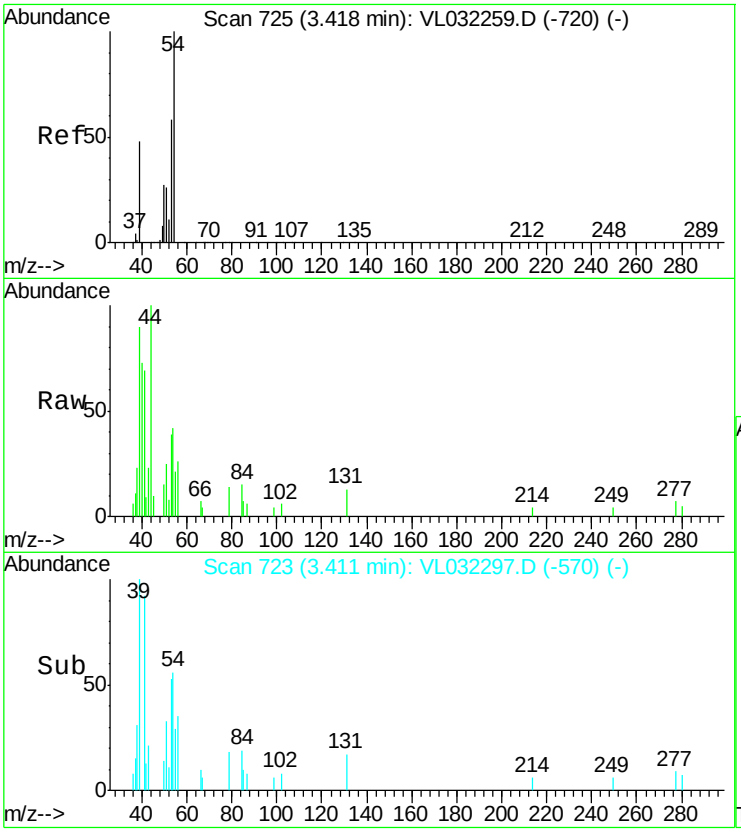


#15
Acetone
Concen: 10.224 ppbv
RT: 3.96 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 43 Resp: 1647322

Ion	Ratio	Lower	Upper
43	100		
58	24.7	21.8	32.6



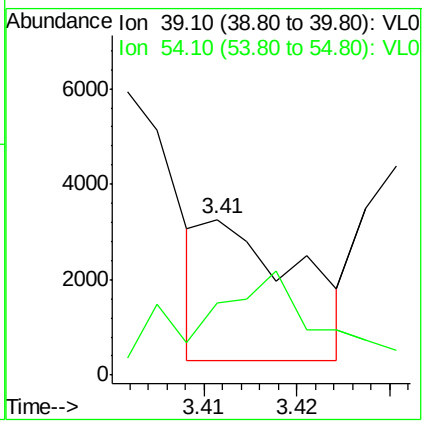


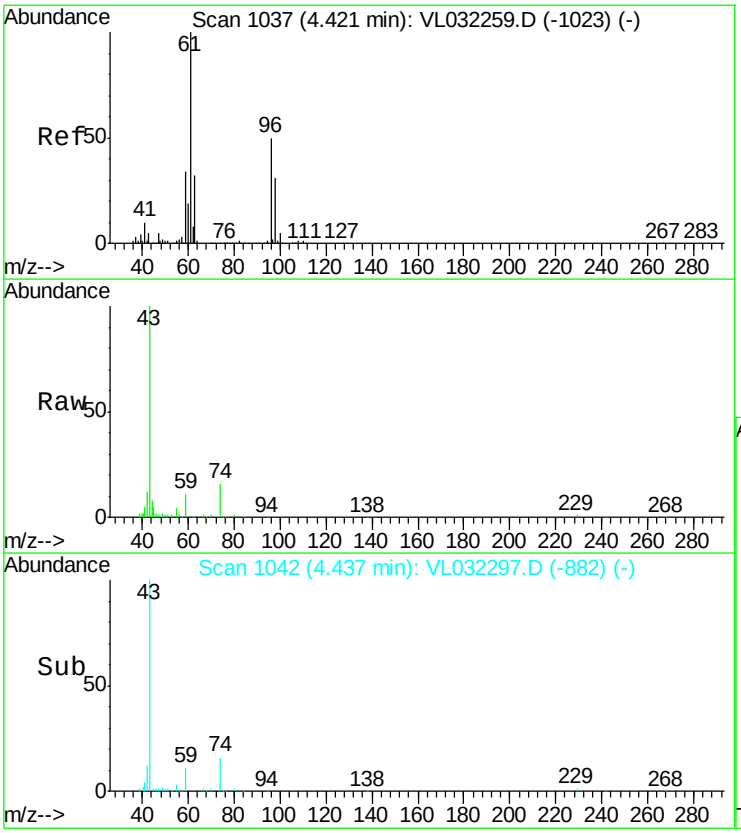
#16
1,3-Butadiene
Concen: 0.025 ppbv
RT: 3.41 min Scan# 723
Delta R.T. -0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 39 Resp: 2078

Ion	Ratio	Lower	Upper
39	100		
54	175.8	70.6	105.8#

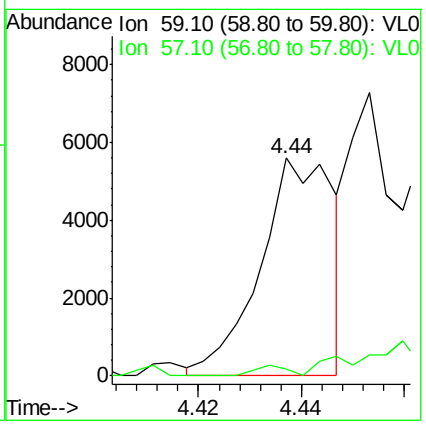


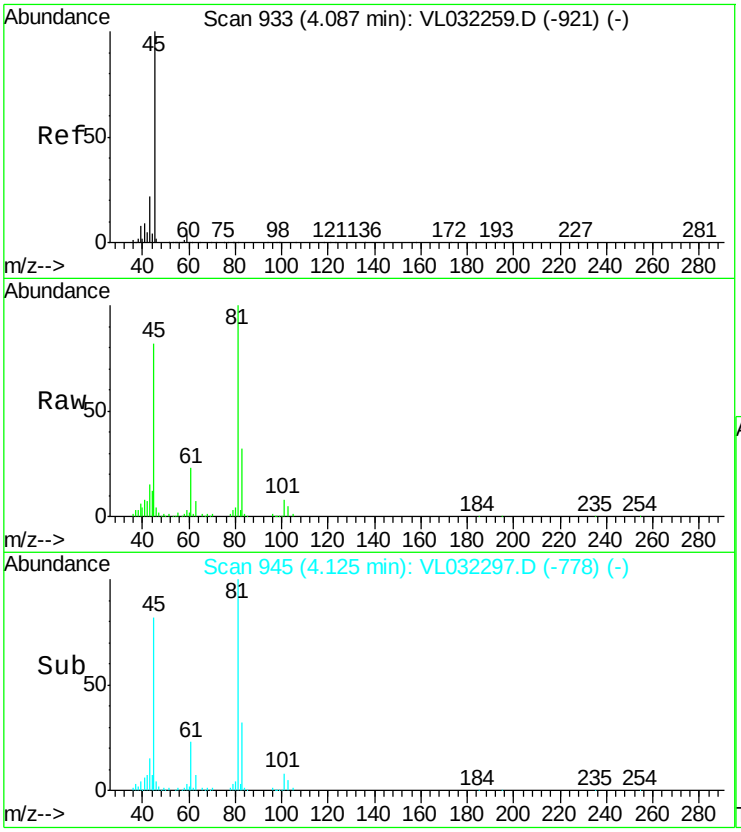


#17
tert-Butyl alcohol
Concen: 0.110 ppbv
RT: 4.44 min Scan# 1042
Delta R.T. 0.02 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 59 Resp: 5565

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.4#



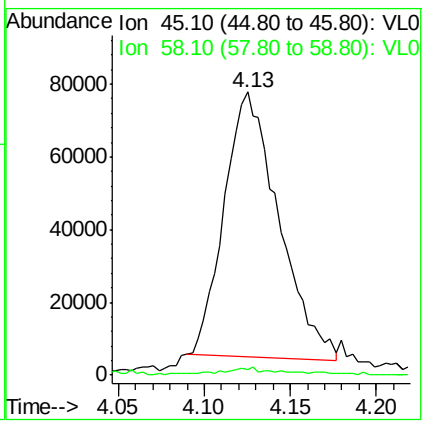


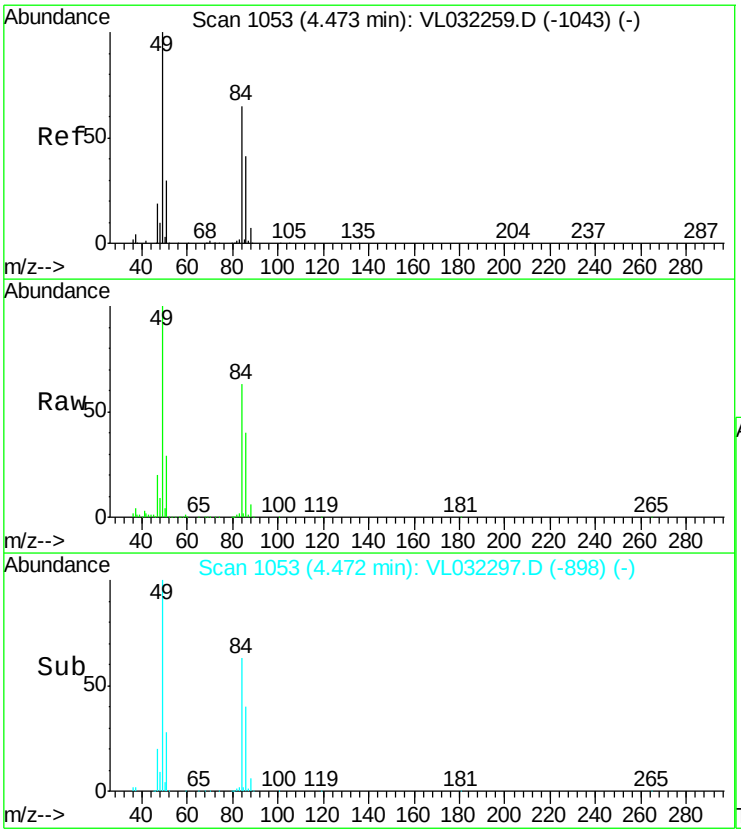
#19
Isopropyl Alcohol
Concen: 1.466 ppbv
RT: 4.13 min Scan# 945
Delta R.T. 0.04 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 45 Resp: 159720

Ion	Ratio	Lower	Upper
45	100		
58	254.5	1.5	2.3#

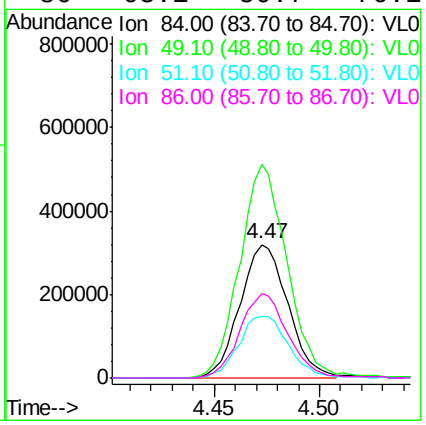


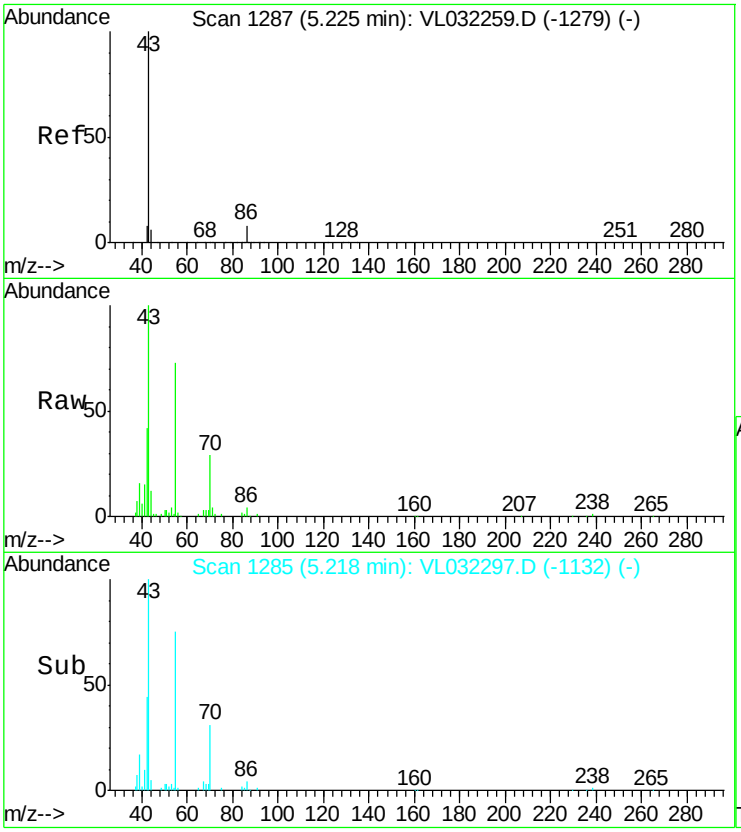


#20
Methylene Chloride
Concen: 8.095 ppbv
RT: 4.47 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 84 Resp: 502153

Ion	Ratio	Lower	Upper
84	100		
49	159.5	122.4	183.6
51	45.7	36.8	55.2
86	63.1	50.7	76.1



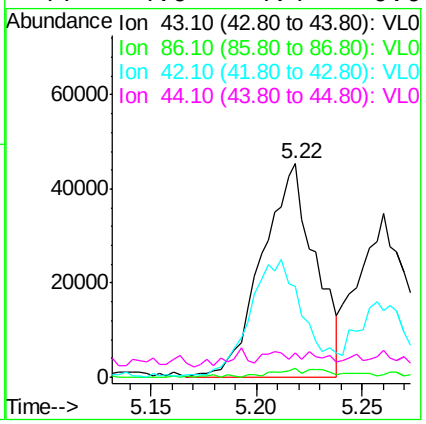


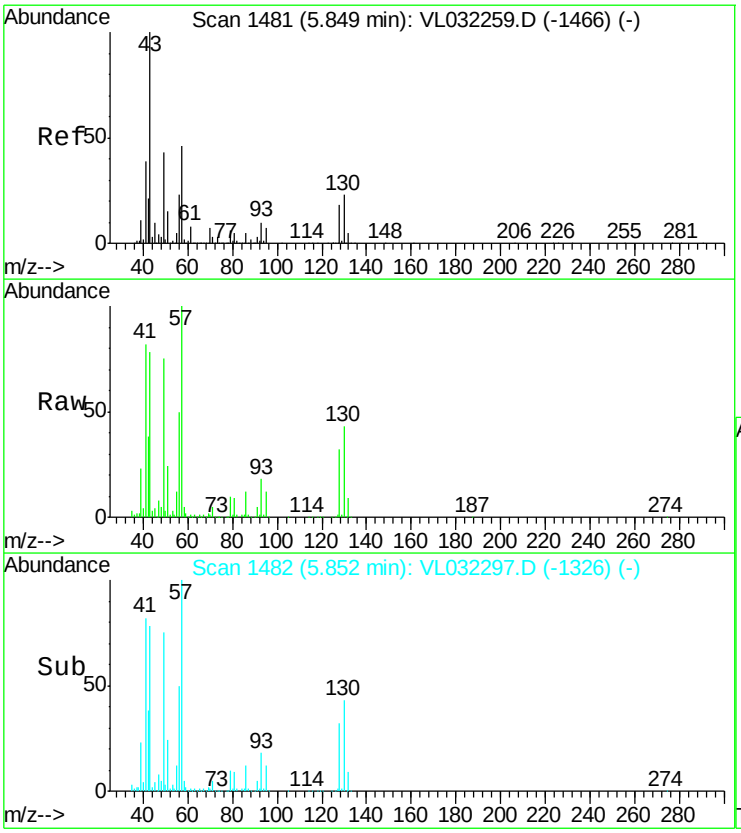
#23
Vinyl Acetate
Concen: 0.274 ppbv
RT: 5.22 min Scan# 1285
Delta R.T. -0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 79290

Ion	Ratio	Lower	Upper
43	100		
86	3.2	5.9	8.9#
42	41.4	7.3	10.9#
44	4.9	4.4	6.6

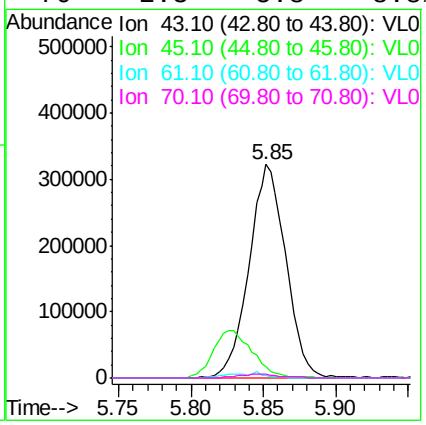


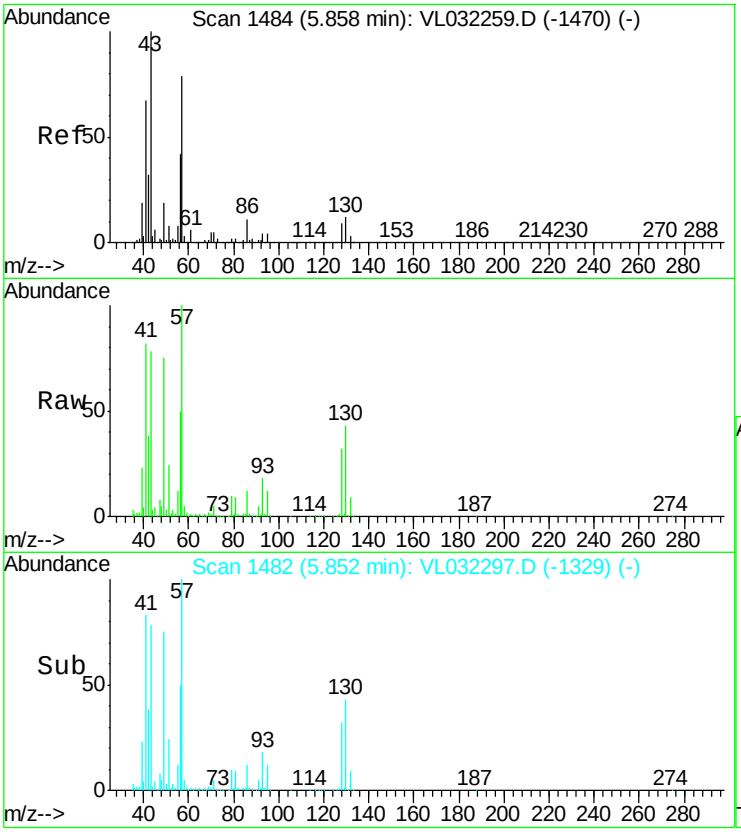


#25
Ethyl Acetate
Concen: 1.619 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 43 Resp: 568128

Ion	Ratio	Lower	Upper
43	100		
45	24.3	7.9	11.9#
61	2.5	7.6	11.4#
70	2.3	5.8	8.8#



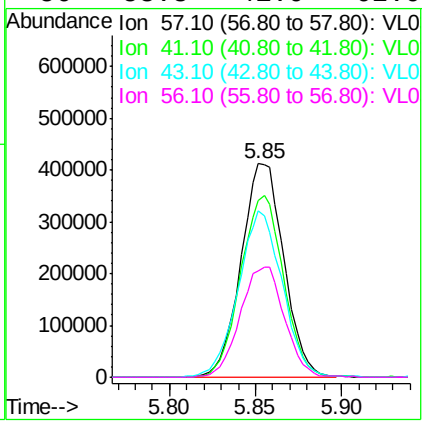


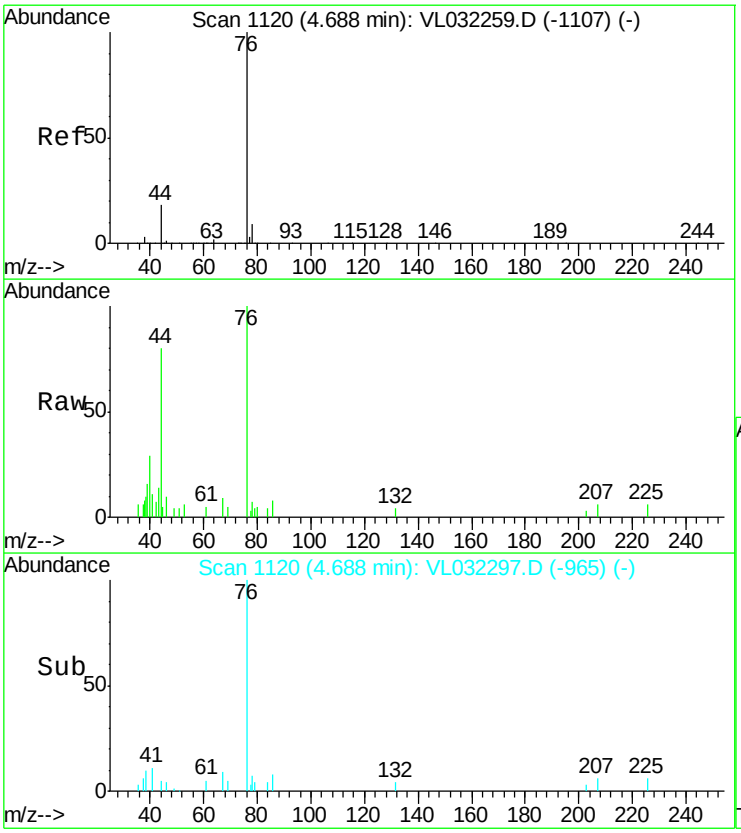
#26
Hexane
Concen: 4.399 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 57 Resp: 709021

Ion	Ratio	Lower	Upper
57	100		
41	85.6	67.9	101.9
43	80.1	175.9	263.9#
56	53.8	41.9	62.9

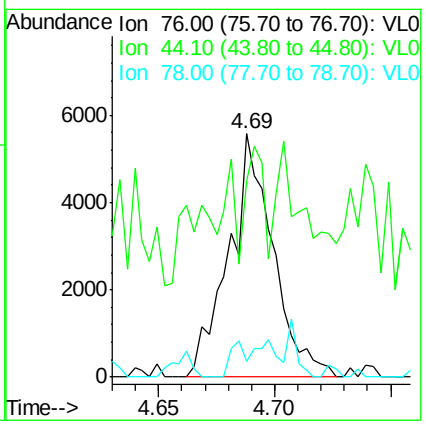


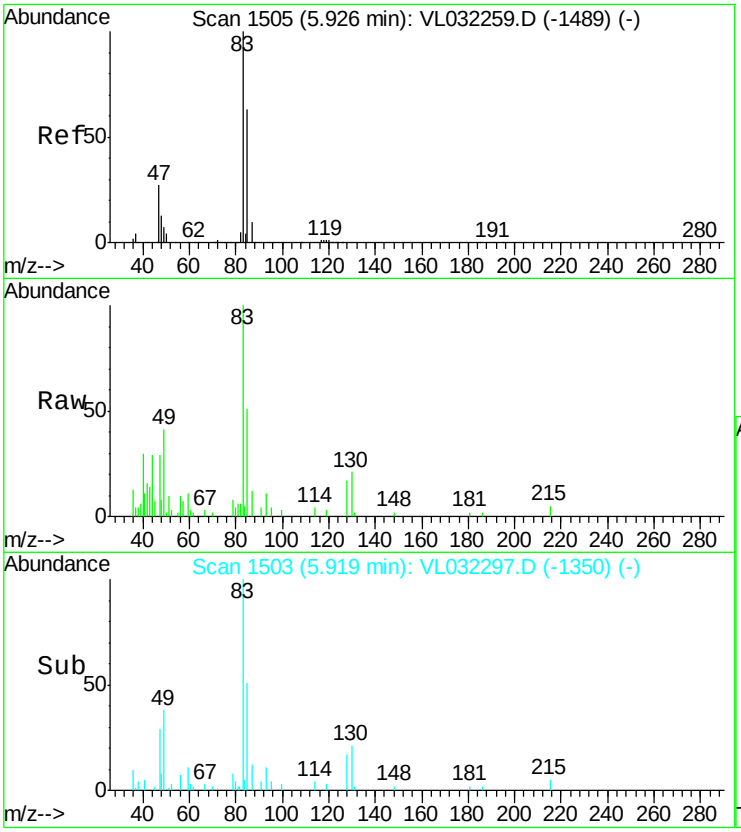


#27
Carbon Disulfide
Concen: 0.052 ppbv
RT: 4.69 min Scan# 1120
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 76 Resp: 7361

Ion	Ratio	Lower	Upper
76	100		
44	102.1	14.3	21.5#
78	19.0	7.4	11.0#



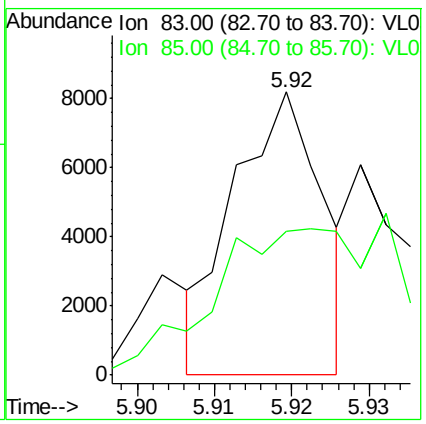


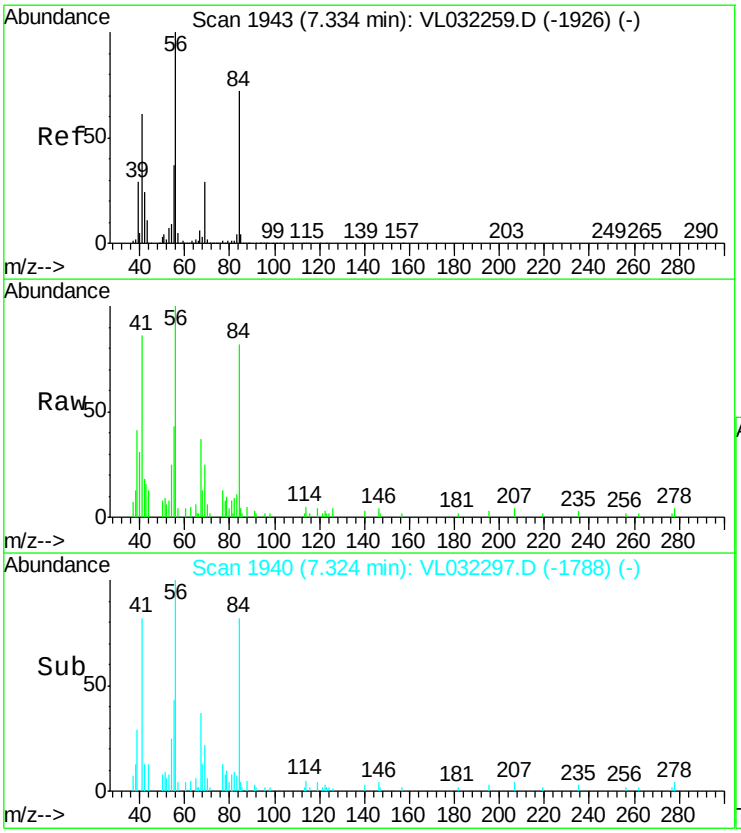
#29
Chloroform
Concen: 0.028 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. -0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 83 Resp: 6552

Ion	Ratio	Lower	Upper
83	100		
85	47.4	50.7	76.1#

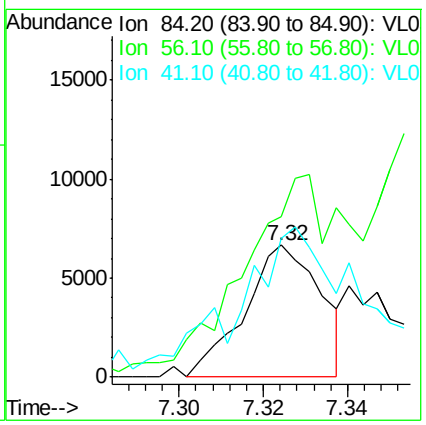


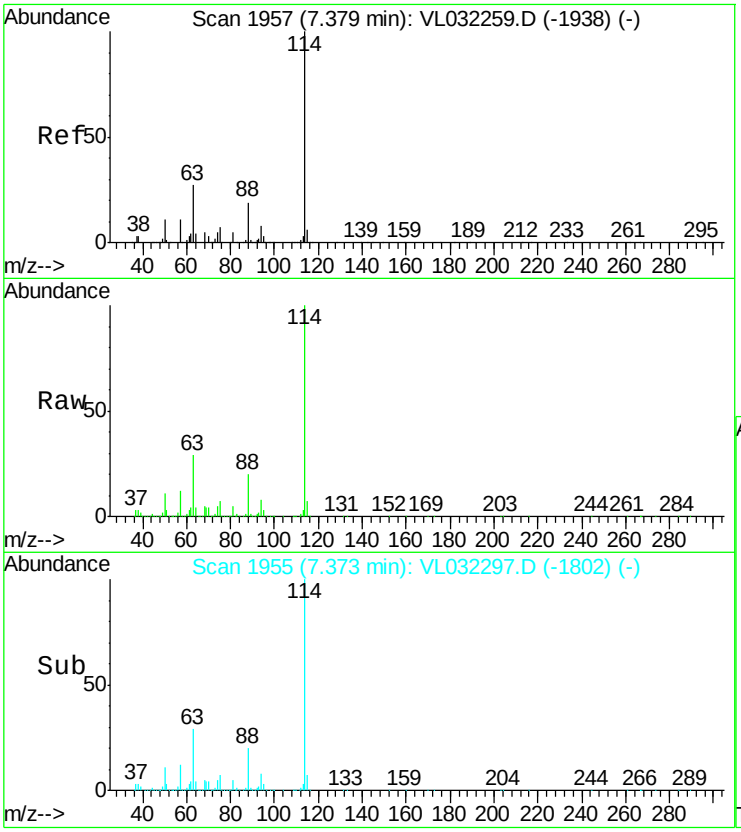


#30
Cyclohexane
Concen: 0.061 ppbv
RT: 7.32 min Scan# 1940
Delta R.T. -0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 84 Resp: 8309

Ion	Ratio	Lower	Upper
84	100		
56	0.0	115.6	173.4#
41	200.4	68.7	103.1#



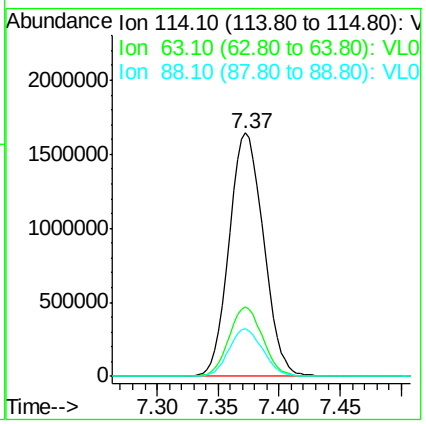


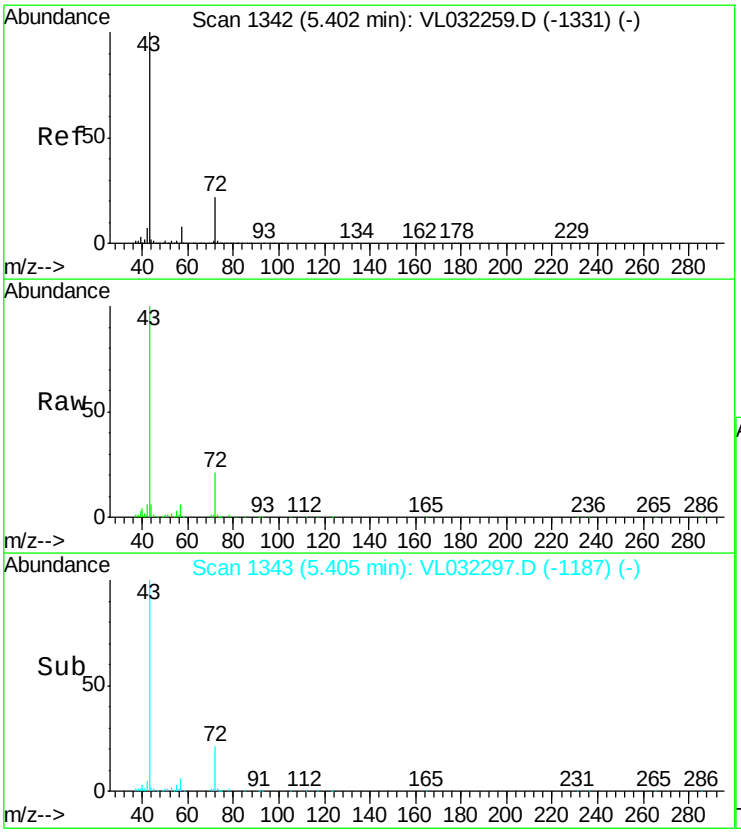
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.37 min Scan# 1955
Delta R.T. -0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:114 Resp: 3221119

Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.6	33.8
88	19.2	15.2	22.8

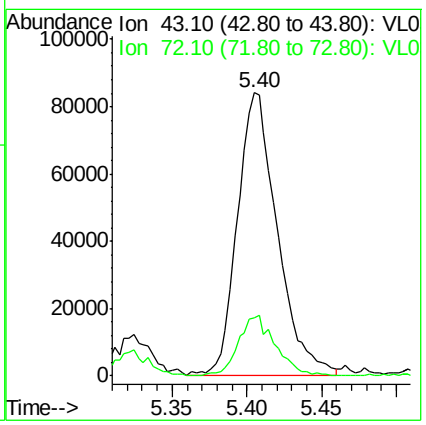


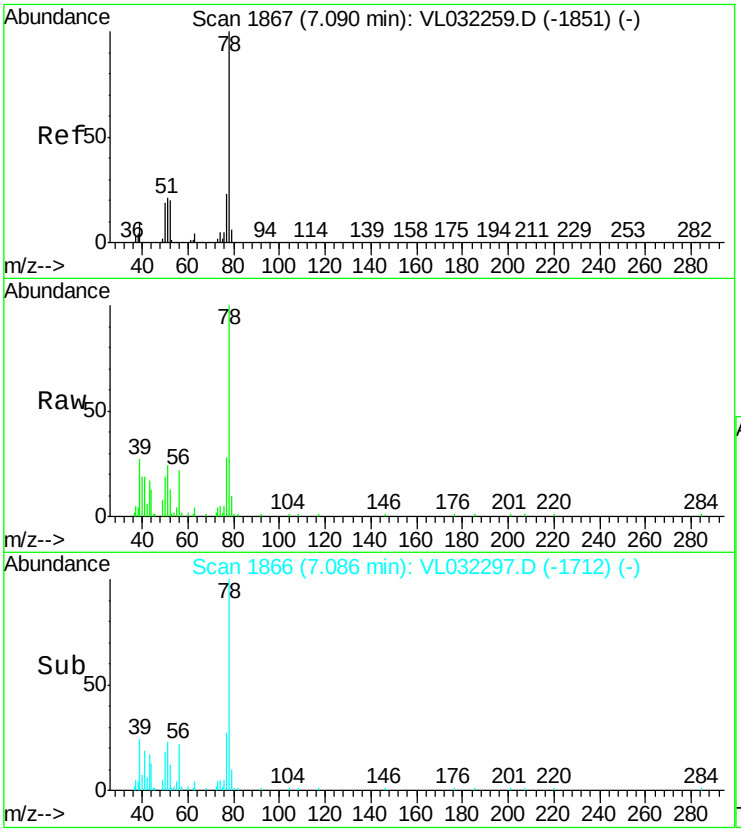


#34
2-Butanone
Concen: 0.704 ppbv
RT: 5.40 min Scan# 1343
Delta R.T. 0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 43 Resp: 155631

Ion	Ratio	Lower	Upper
43	100		
72	20.1	17.7	26.5



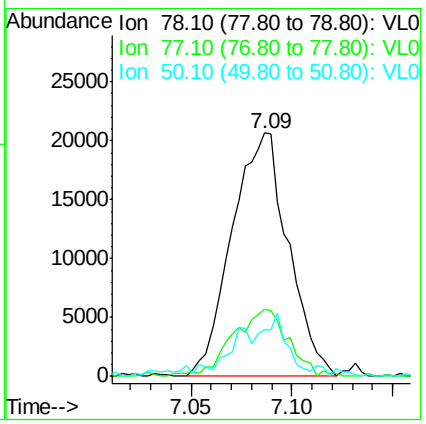


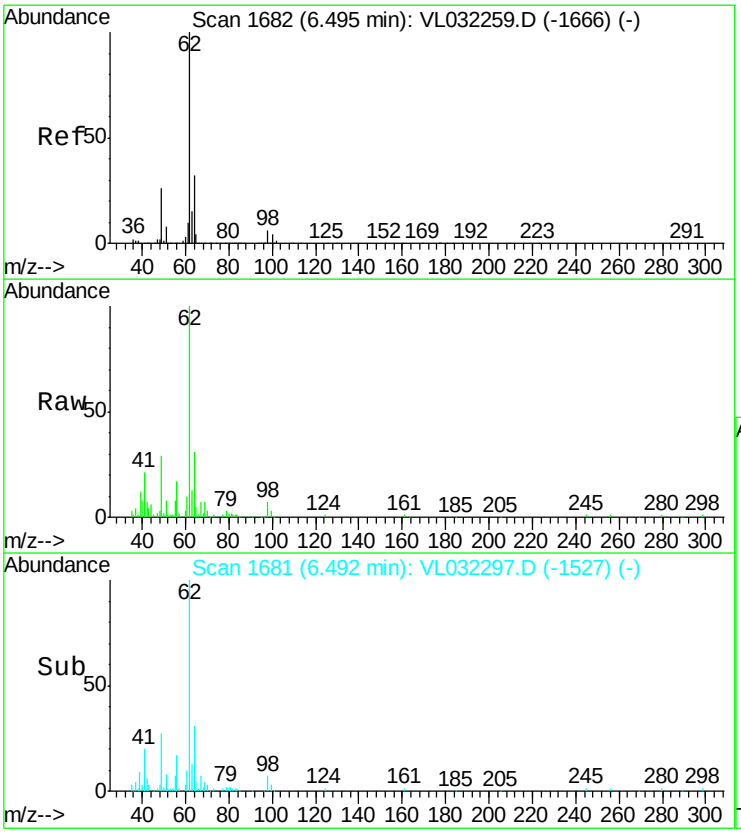
#36
Benzene
Concen: 0.127 ppbv
RT: 7.09 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 78 Resp: 40250

Ion	Ratio	Lower	Upper
78	100		
77	26.3	18.6	27.8
50	15.2	15.0	22.6

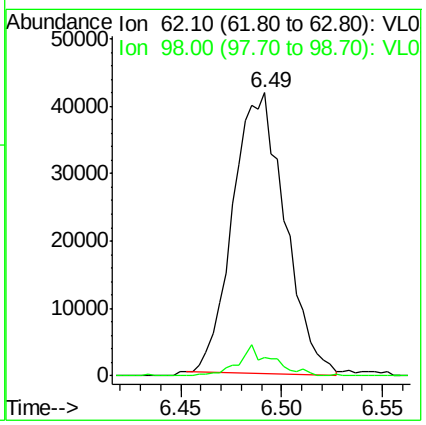


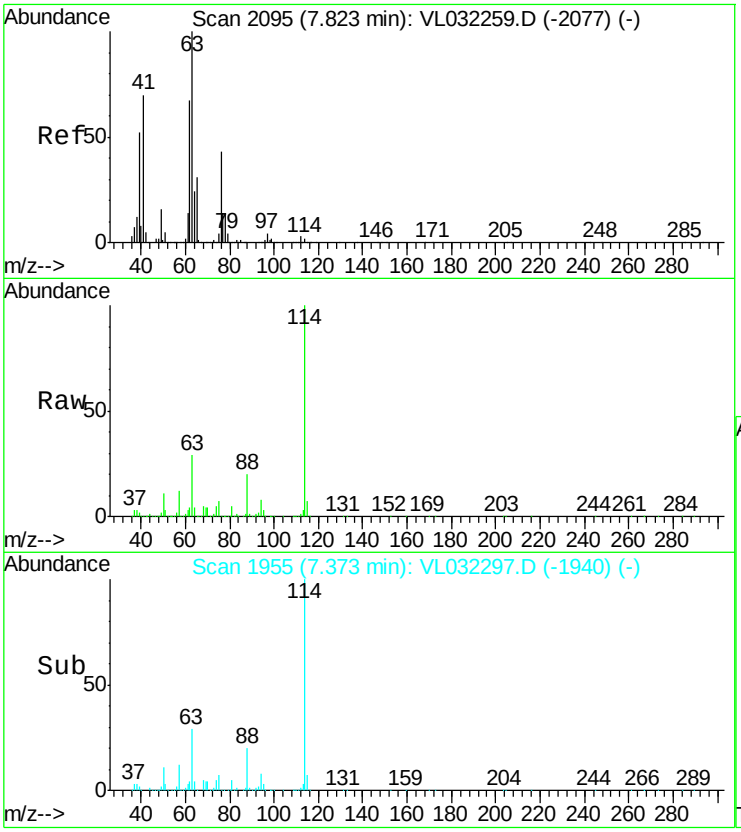


#37
1,2-Dichloroethane
Concen: 0.401 ppbv
RT: 6.49 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 62 Resp: 75199

Ion	Ratio	Lower	Upper
62	100		
98	7.3	4.9	7.3



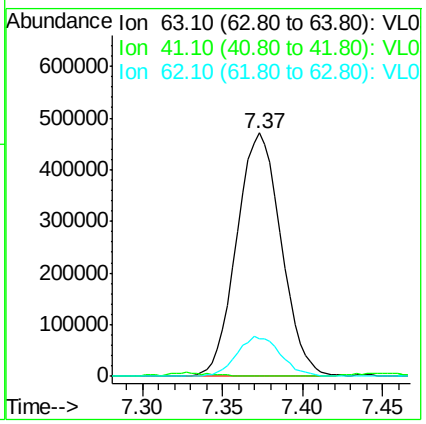


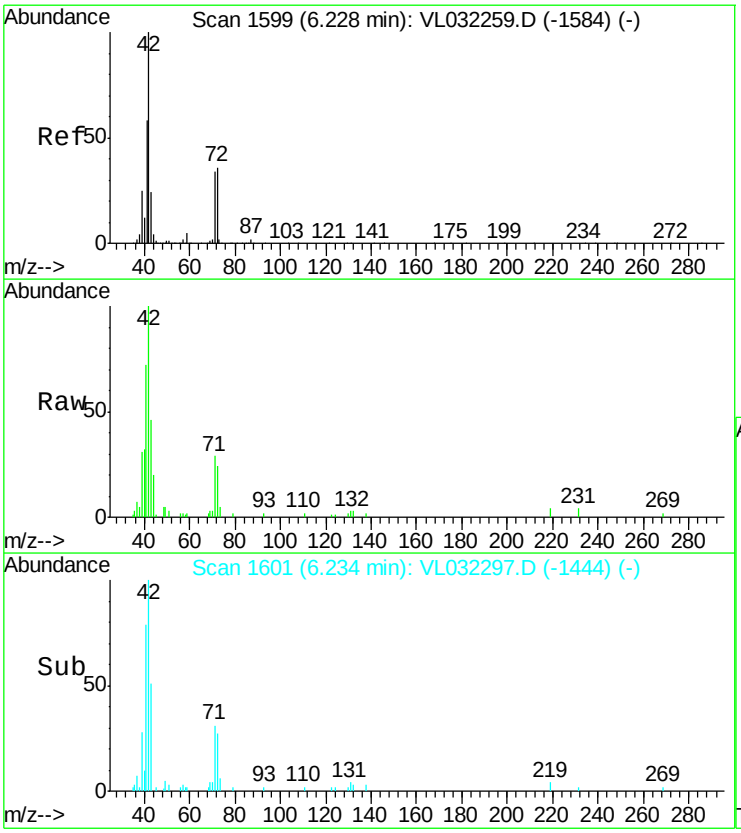
#39
1,2-Dichloropropane
Concen: 7.126 ppbv
RT: 7.37 min Scan# 1955
Delta R.T. -0.45 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 63 Resp: 894551

Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.8	83.6#
62	15.4	53.8	80.8#

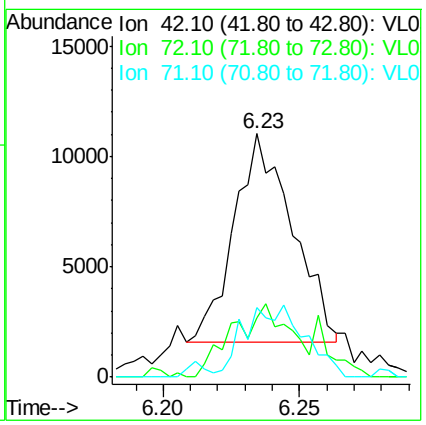


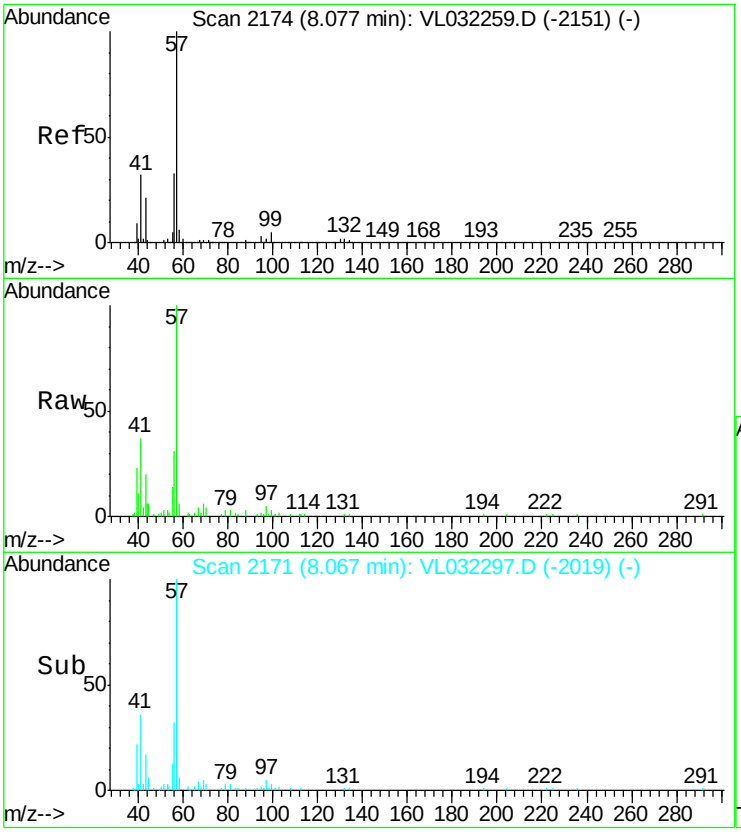


#41
Tetrahydrofuran
Concen: 0.109 ppbv
RT: 6.23 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 42 Resp: 14085

Ion	Ratio	Lower	Upper
42	100		
72	44.6	29.4	44.0#
71	38.8	28.2	42.4



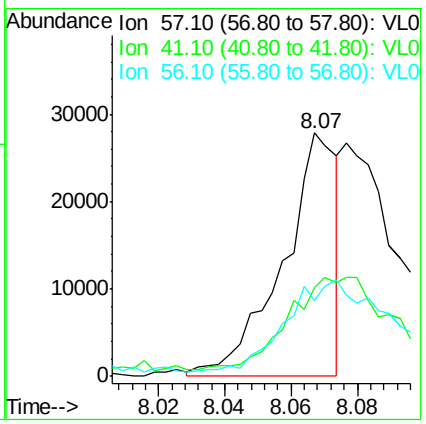


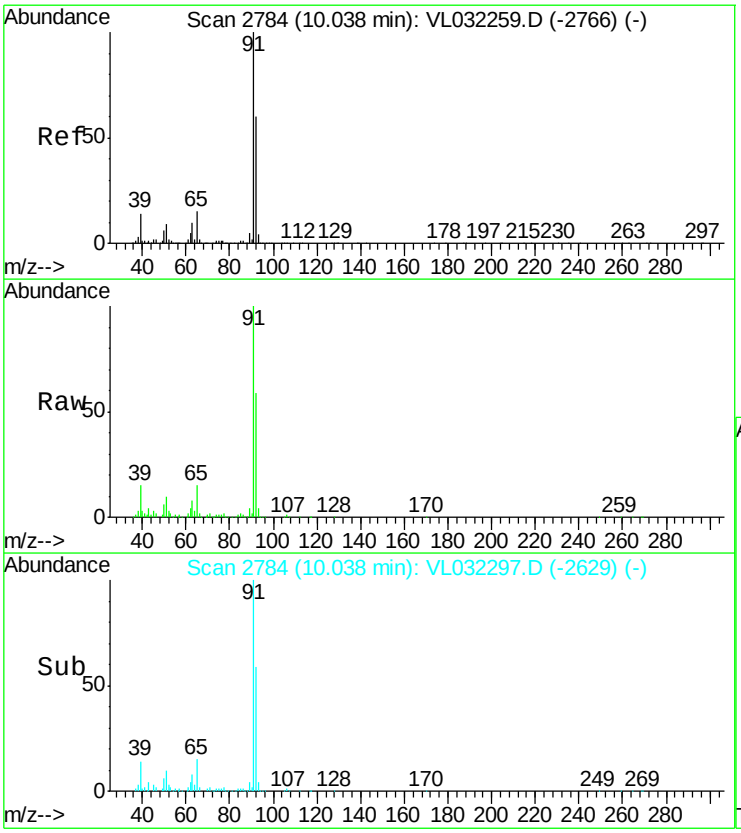
#44
2,2,4-Trimethylpentane
Concen: 0.057 ppbv
RT: 8.07 min Scan# 2171
Delta R.T. -0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 57 Resp: 31446

Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.4	36.6#
56	0.0	25.7	38.5#

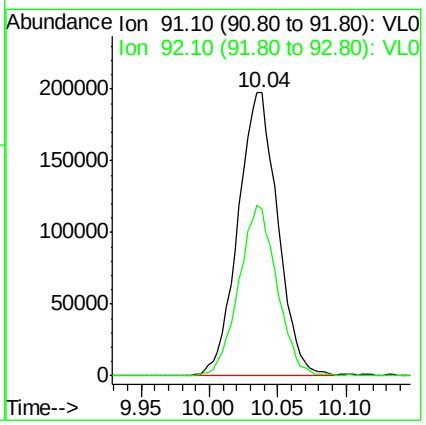


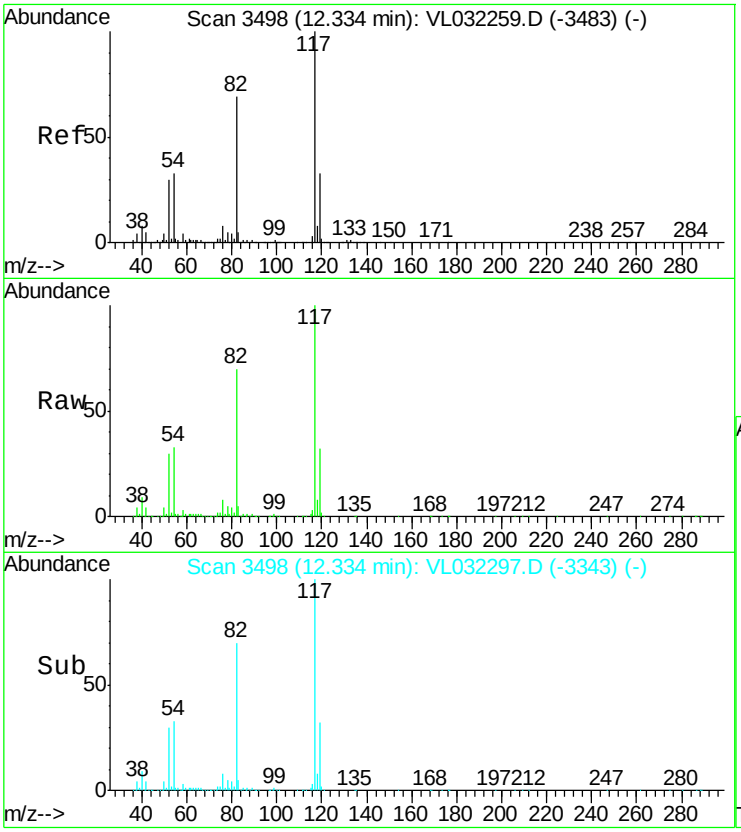


#53
Toluene
Concen: 1.038 ppbv
RT: 10.04 min Scan# 2784
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 91 Resp: 398874

Ion	Ratio	Lower	Upper
91	100		
92	57.9	48.6	72.8



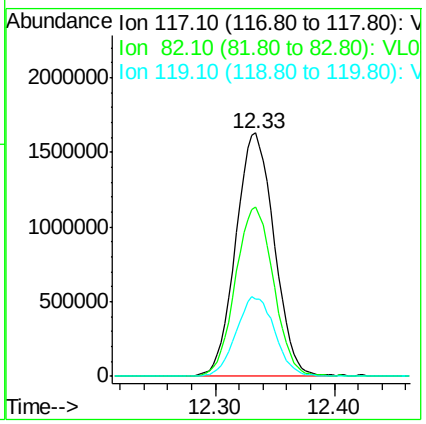


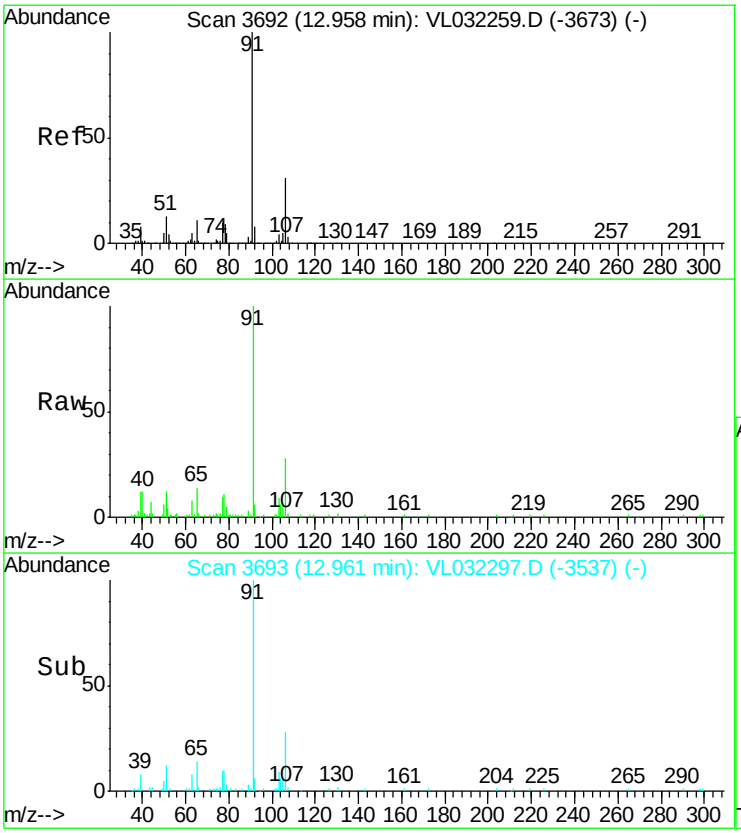
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.33 min Scan# 3498
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 3640422

Ion	Ratio	Lower	Upper
117	100		
82	69.9	53.9	80.9
119	32.8	25.5	38.3

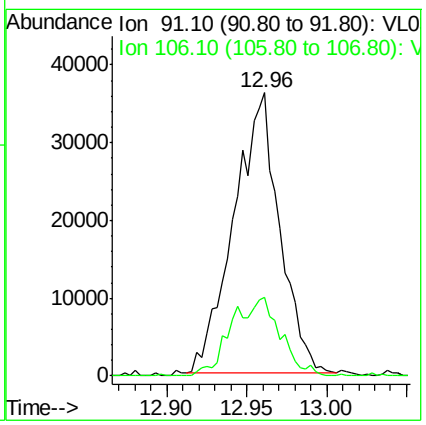


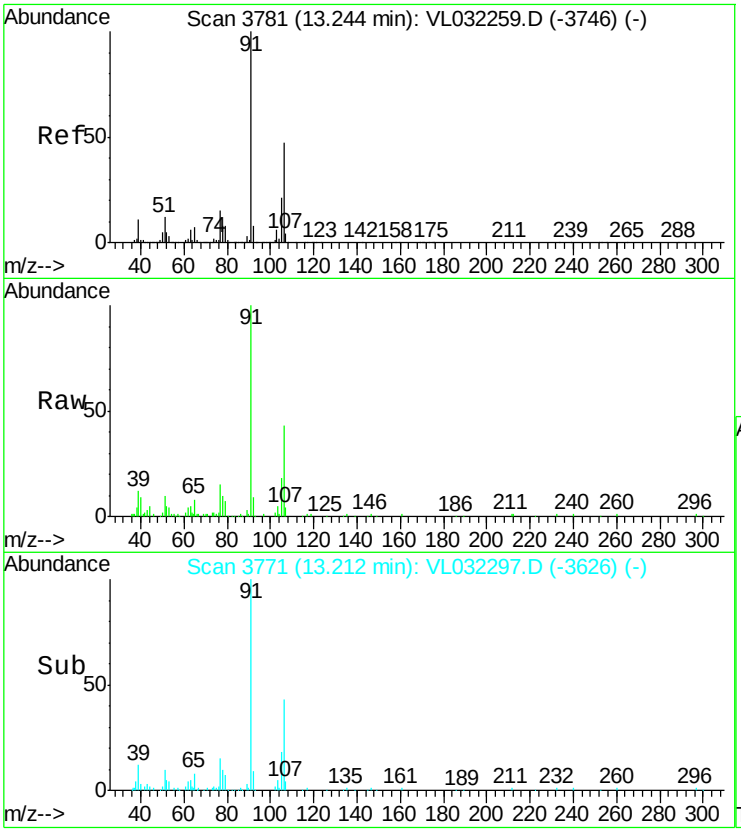


#58
Ethyl Benzene
Concen: 0.138 ppbv
RT: 12.96 min Scan# 3693
Delta R.T. 0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 91 Resp: 70694

Ion	Ratio	Lower	Upper
91	100		
106	28.1	24.5	36.7



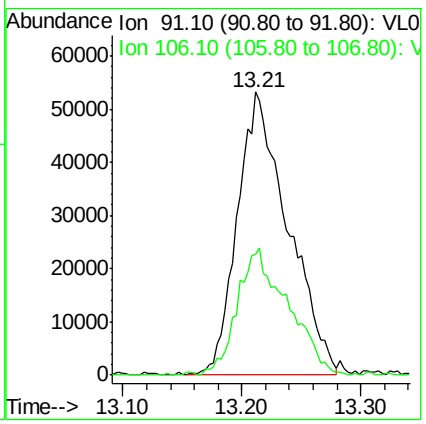


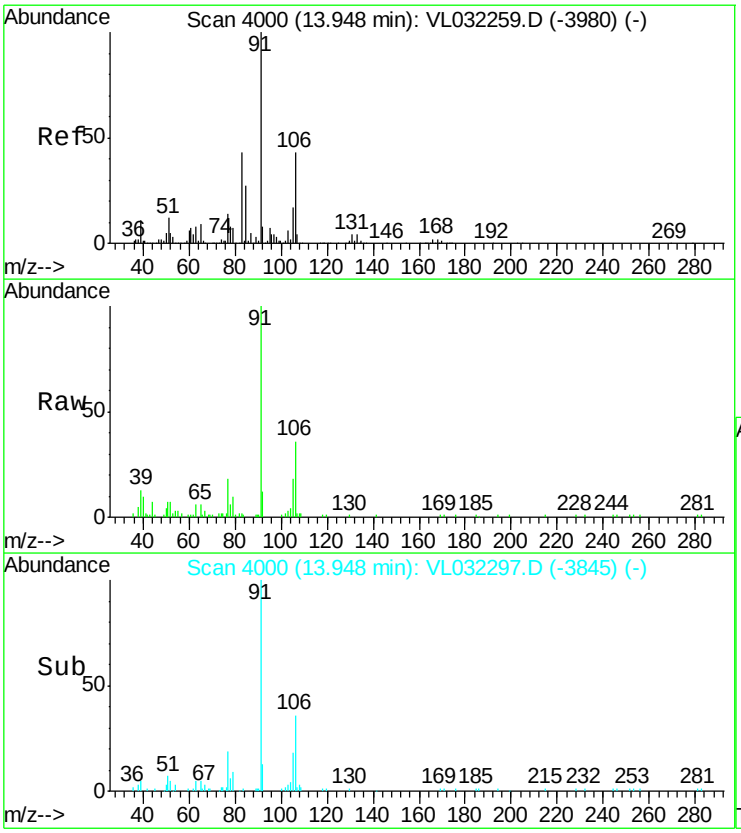
#59
m/p-Xylene
Concen: 0.358 ppbv
RT: 13.21 min Scan# 3771
Delta R.T. -0.03 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 156638

Ion	Ratio	Lower	Upper
91	100		
106	44.9	36.2	54.2

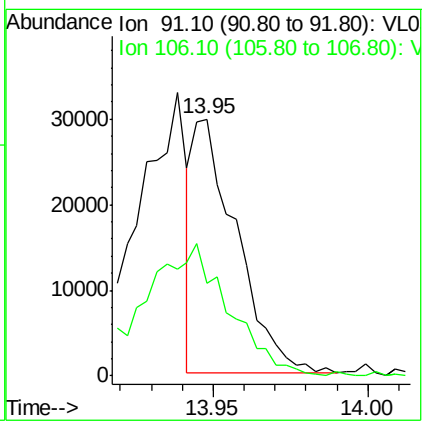


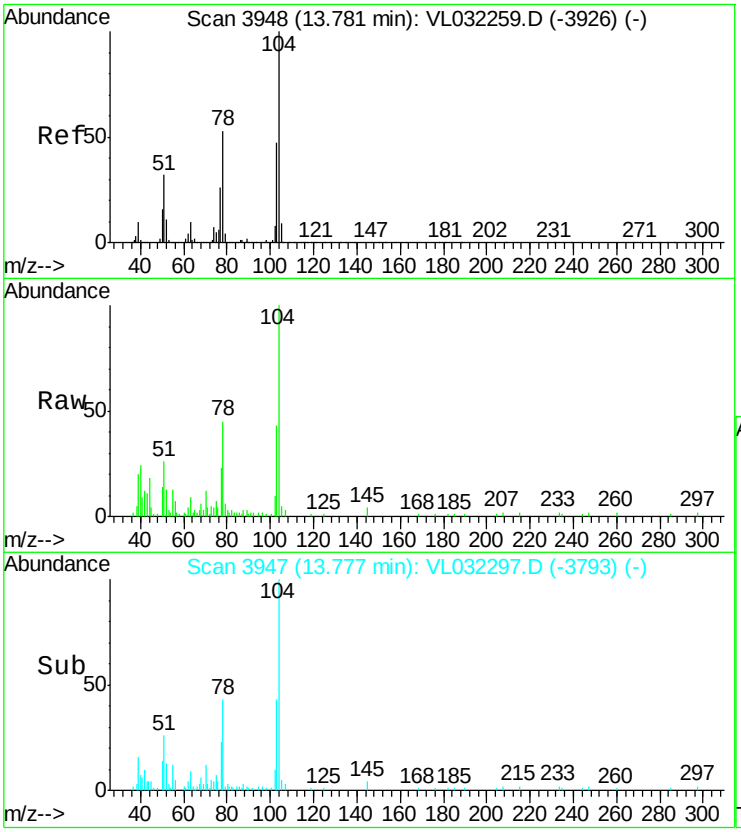


#60
o-Xylene
Concen: 0.066 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 91 Resp: 28954

Ion	Ratio	Lower	Upper
91	100		
106	103.1	21.7	65.1#



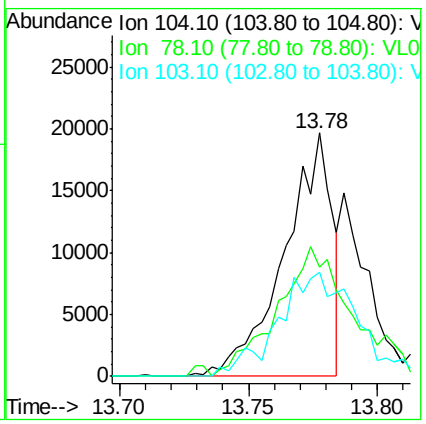


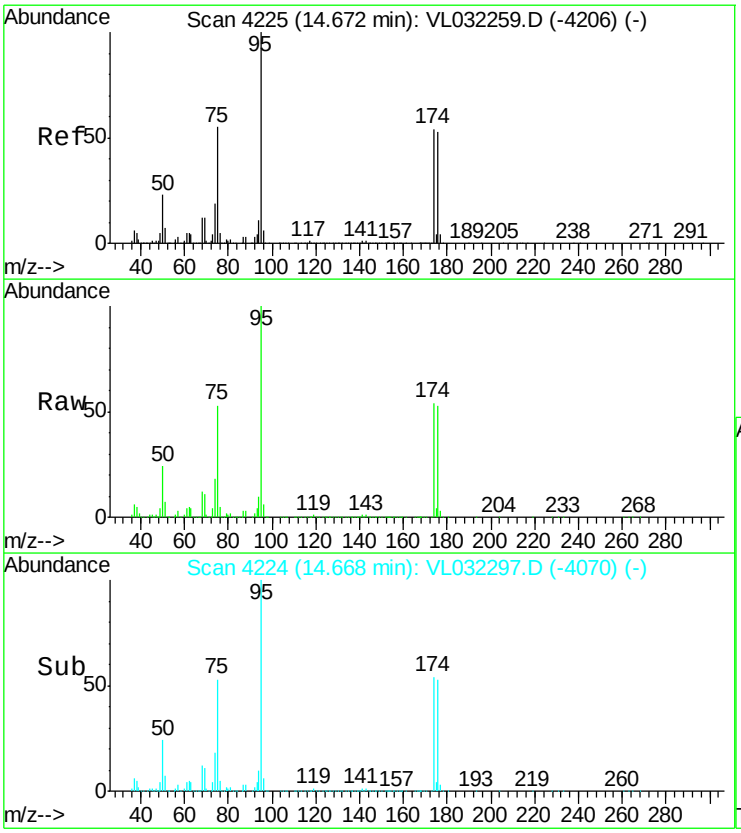
#61
Stvrene
Concen: 0.078 ppbv
RT: 13.78 min Scan# 3947
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion:104 Resp: 25334

Ion	Ratio	Lower	Upper
104	100		
78	90.3	43.2	64.8#
103	72.6	37.8	56.6#

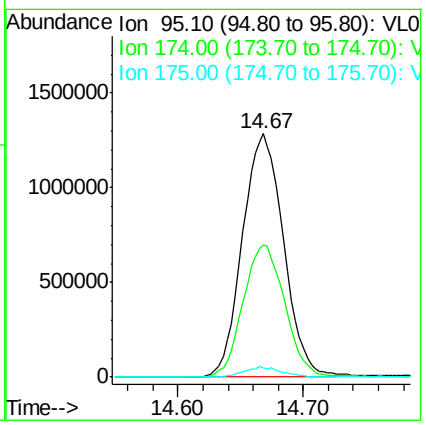


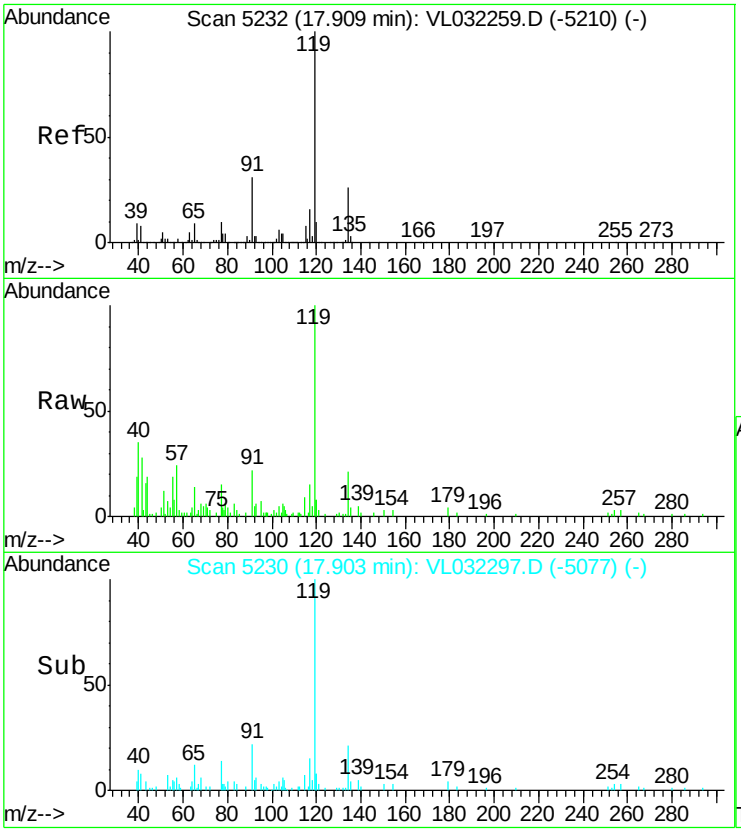


#68
1-Bromo-4-Fluorobenzene
Concen: 9.917 ppbv
RT: 14.67 min Scan# 4224
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion: 95 Resp: 2927085

Ion	Ratio	Lower	Upper
95	100		
174	55.9	44.3	66.5
175	3.9	3.3	4.9



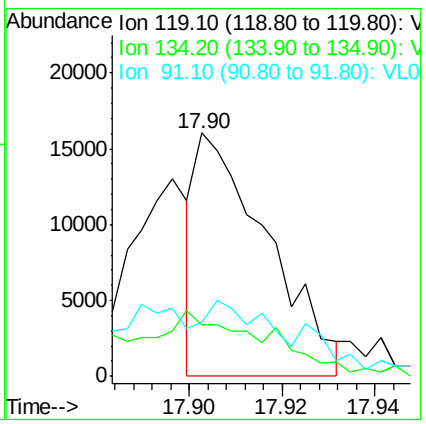


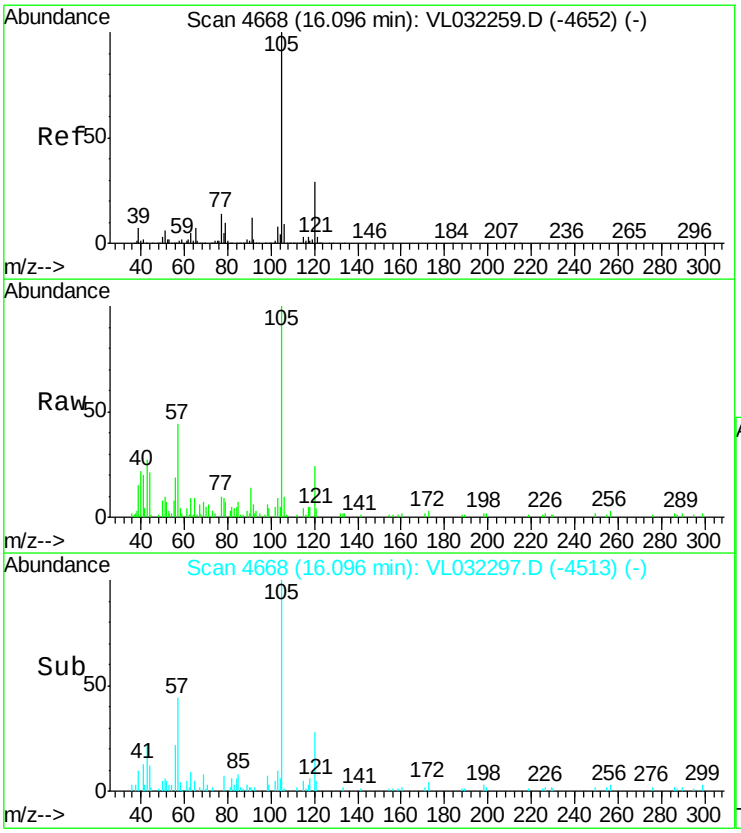
#69
p-Isopropyltoluene
Concen: 0.028 ppbv
RT: 17.90 min Scan# 5230
Delta R.T. -0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:119 Resp: 17190

Ion	Ratio	Lower	Upper
119	100		
134	52.8	20.3	30.5#
91	55.9	24.1	36.1#

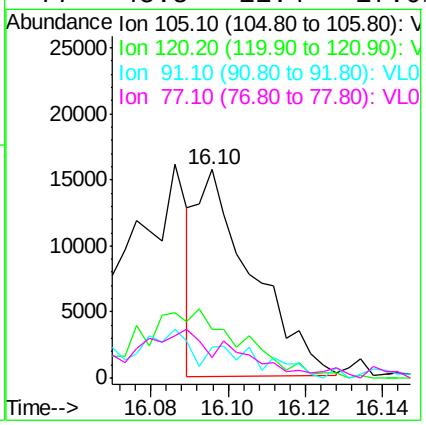


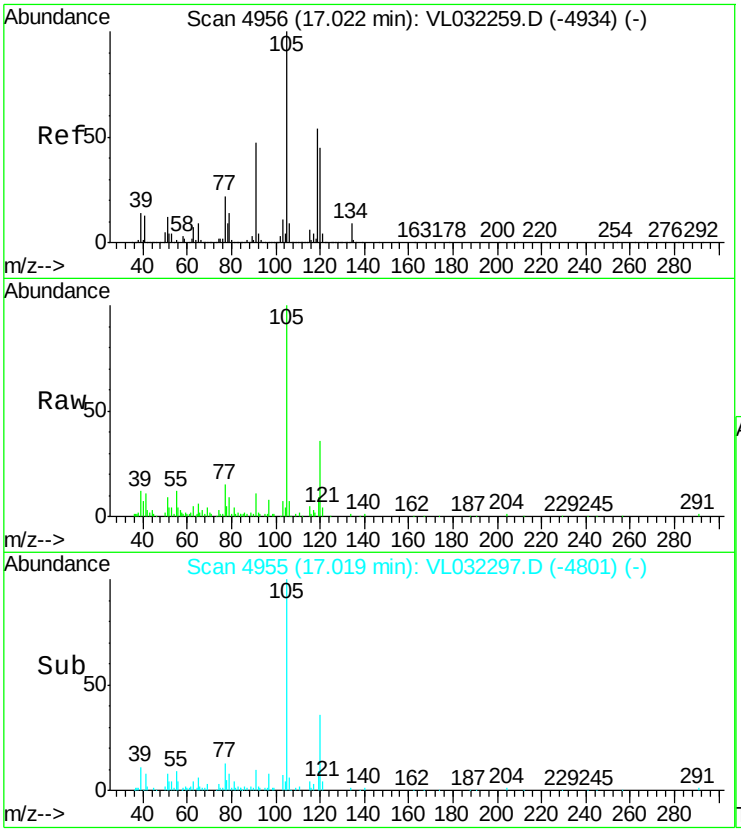


#72
4-Ethyltoluene
Concen: 0.031 ppbv
RT: 16.10 min Scan# 4668
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion:105 Resp: 15591

Ion	Ratio	Lower	Upper
105	100		
120	66.2	23.0	34.6#
91	0.0	10.1	15.1#
77	45.5	11.4	17.0#



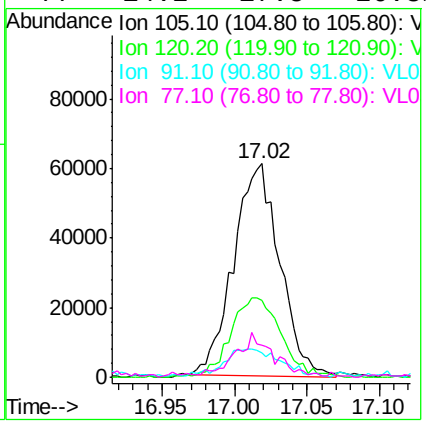


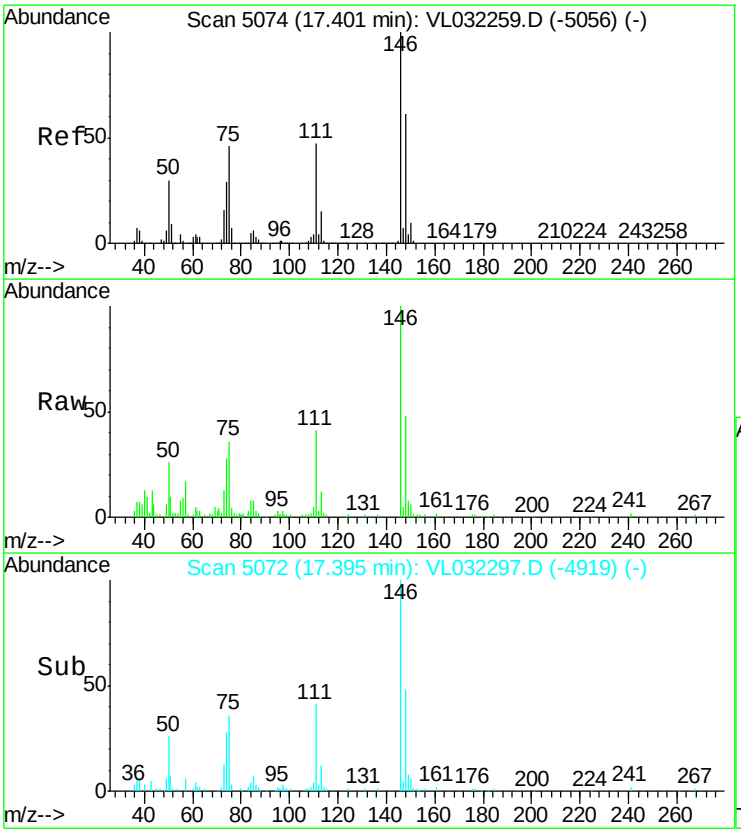
#74
1,2,4-Trimethylbenzene
Concen: 0.261 ppbv
RT: 17.02 min Scan# 4955
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:105 Resp: 134678

Ion	Ratio	Lower	Upper
105	100		
120	35.5	35.8	53.6#
91	10.8	38.2	57.4#
77	14.2	17.5	26.3#

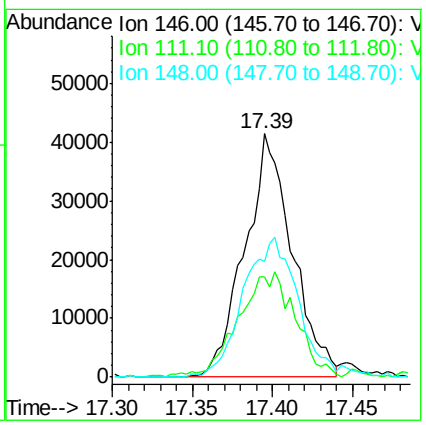


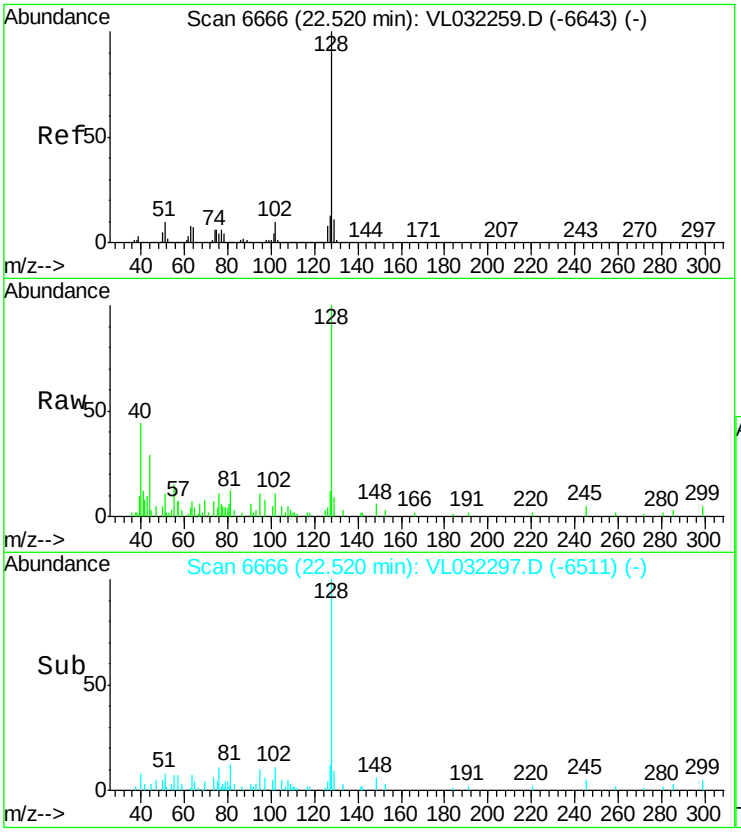


#76
1,4-Dichlorobenzene
Concen: 0.298 ppbv
RT: 17.39 min Scan# 5072
Delta R.T. -0.01 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Tgt Ion:146 Resp: 84537

Ion	Ratio	Lower	Upper
146	100		
111	53.2	24.1	72.2
148	67.5	31.9	95.9





#79
Naphthalene
Concen: 0.024 ppbv
RT: 22.52 min Scan# 6666
Delta R.T. -0.00 min
Lab File: VL032297.D
Acq: 19 Jul 2018 20:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:128 Resp: 10345

Ion	Ratio	Lower	Upper
128	100		
127	9.2	10.5	15.7#
129	10.3	8.6	12.8