Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
Data File : VL032443.D
Acq On : 31 Aug 2018 16:23
Operator : SY/AP
Sample : J4472-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SS-2

Manual Integrations APPROVED
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9/4/2018 8:26:20 AM

Quant Time: Sep 02 22:20:29 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 3
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.80	49	1837758	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.34	114	3455637	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.29	117	3498106	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.63	95	2678040	10.31	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.11	85	115254	0.490	ppbv		96
3) Chlorodifluoromethane	3.04	51	97783m	0.588	ppbv		
4) Chloromethane	3.20	50	123141	1.222	ppbv		93
6) Bromomethane	3.55	94	6563m	0.126	ppbv		
9) Propene	3.06	41	596384	8.887	ppbv		98
11) Trichlorofluoromethane	4.04	101	706571	3.333	ppbv		96
13) Ethanol	3.68	45	588280	28.124	ppbv		96
15) Acetone	3.93	43	3054624	18.458	ppbv		98
17) tert-Butyl alcohol	4.40	59	40681m	1.597	ppbv		
19) Isopropyl Alcohol	4.07	45	1780486	16.400	ppbv	#	98
20) Methylene Chloride	4.44	84	433473	6.869	ppbv		95
26) Hexane	5.82	57	487256	2.784	ppbv	#	63
29) Chloroform	5.89	83	59248	0.222	ppbv		93
30) Cyclohexane	7.29	84	25453m	0.199	ppbv		
34) 2-Butanone	5.37	43	1043672	4.547	ppbv		100
35) Carbon Tetrachloride	7.18	117	18942m	0.082	ppbv		
36) Benzene	7.05	78	235620	0.801	ppbv		97
38) Trichloroethene	8.01	130	50710m	0.454	ppbv		
44) 2,2,4-Trimethylpentane	8.03	57	84305	0.148	ppbv	#	71
50) 4-Methyl-2-Pentanone	8.93	43	138199m	0.400	ppbv		
51) 2-Hexanone	10.32	43	137207	0.616	ppbv	#	97
52) Tetrachloroethene	11.43	164	101650m	1.115	ppbv		
53) Toluene	10.00	91	1045353	3.401	ppbv		100
58) Ethyl Benzene	12.91	91	85011m	0.203	ppbv		
59) m/p-Xylene	13.17	91	230812m	0.618	ppbv		
60) o-Xylene	13.90	91	111063	0.303	ppbv		99
61) Styrene	13.74	104	49270	0.208	ppbv		93
74) 1,2,4-Trimethylbenzene	16.98	105	89080	0.203	ppbv	#	69
76) 1,4-Dichlorobenzene	17.36	146	8232460	34.109	ppbv		98
79) Naphthalene	22.47	128	92573m	0.260	ppbv		

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

Quantitation Report (QT Reviewed)

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Data File : VL032443.D
Acq On : 31 Aug 2018 16:23
Operator : SY/AP
Sample : J4472-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 02 22:20:29 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
SS-2

Manual Integrations APPROVED
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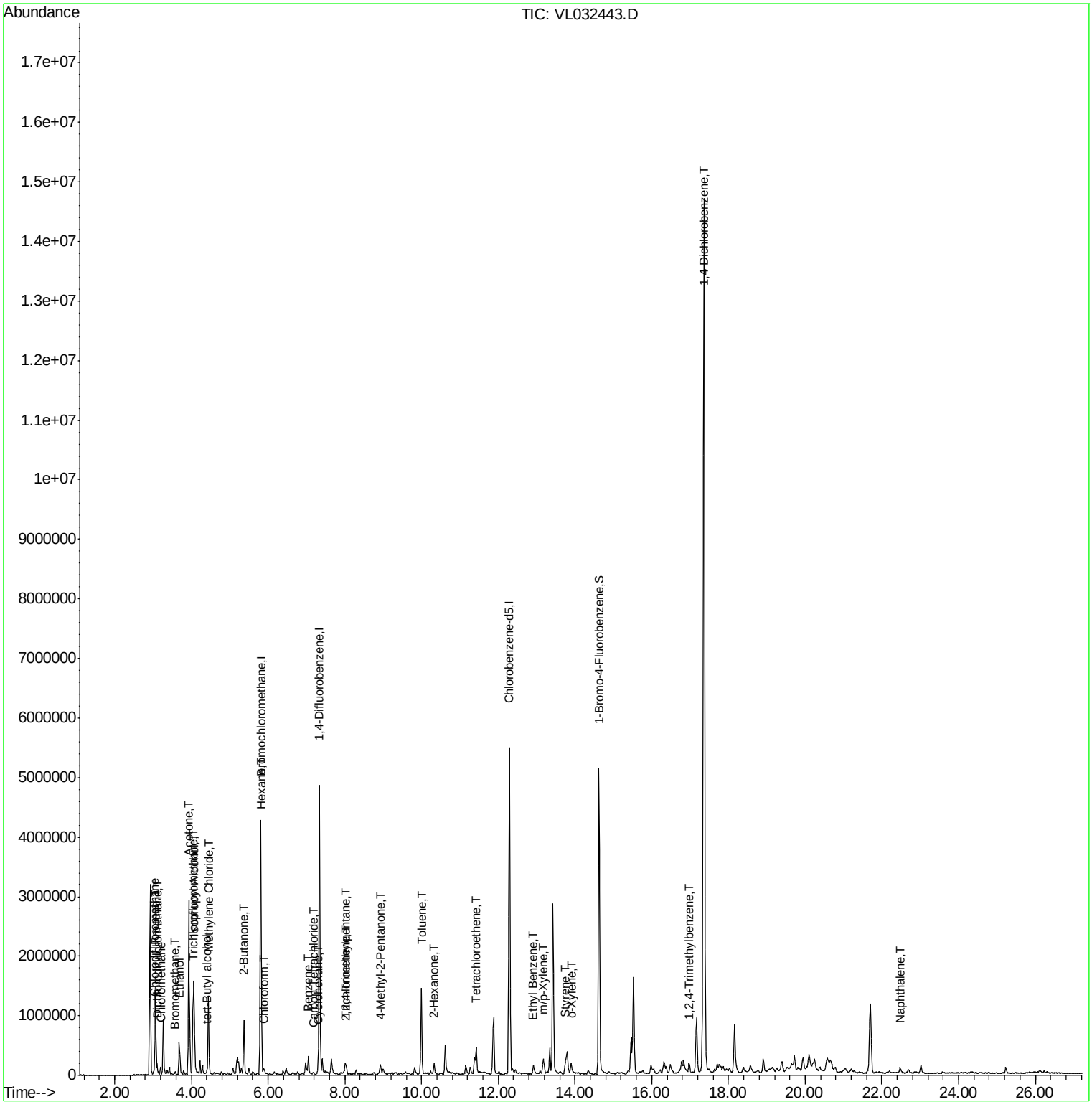
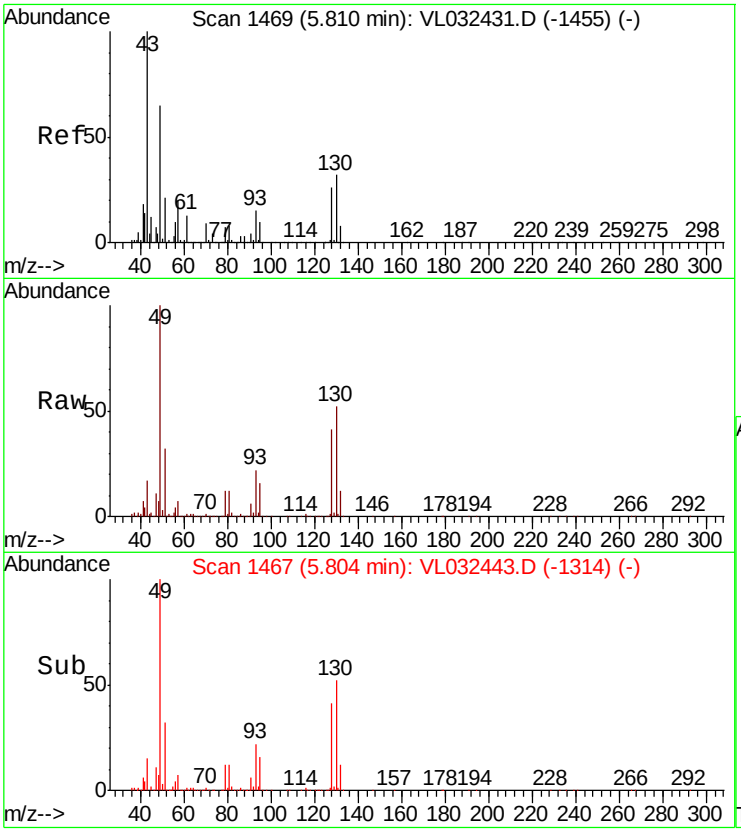
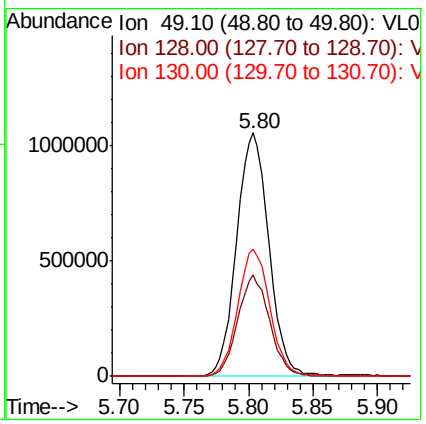




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.80 min Scan# 1467
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 49 Resp: 1837758

Ion	Ratio	Lower	Upper
49	100		
128	41.2	20.7	62.1
130	52.5	26.6	79.7



Instrument :
MSVOA_L
ClientSampleId :
SS-2

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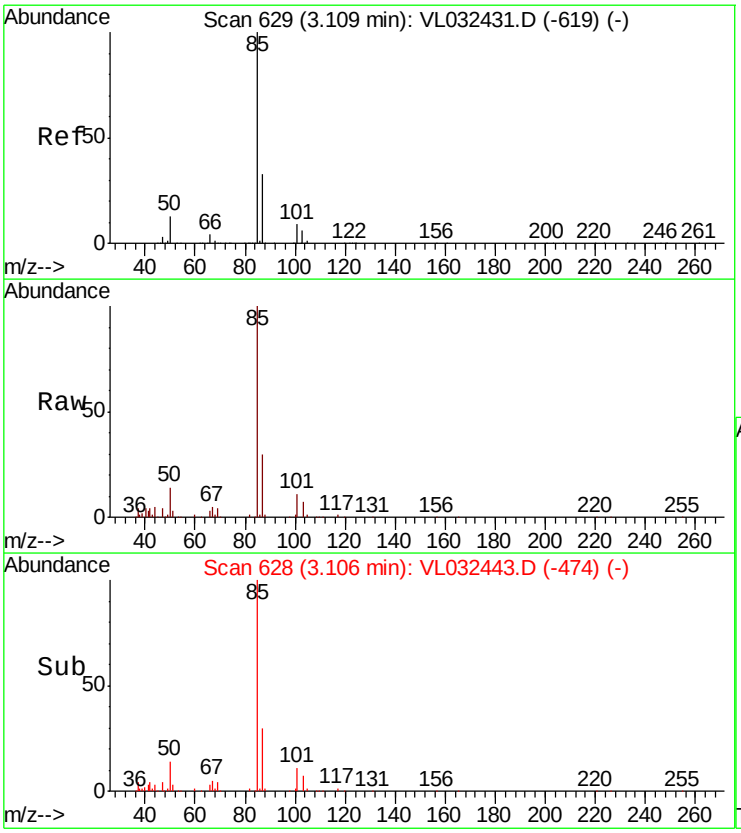
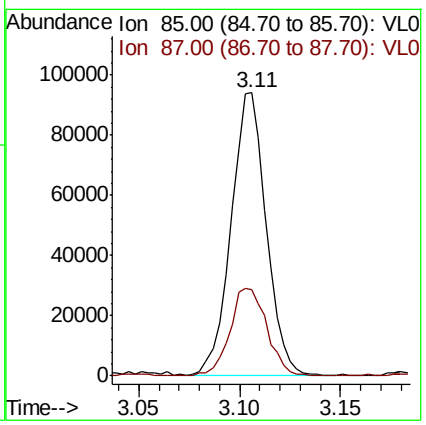
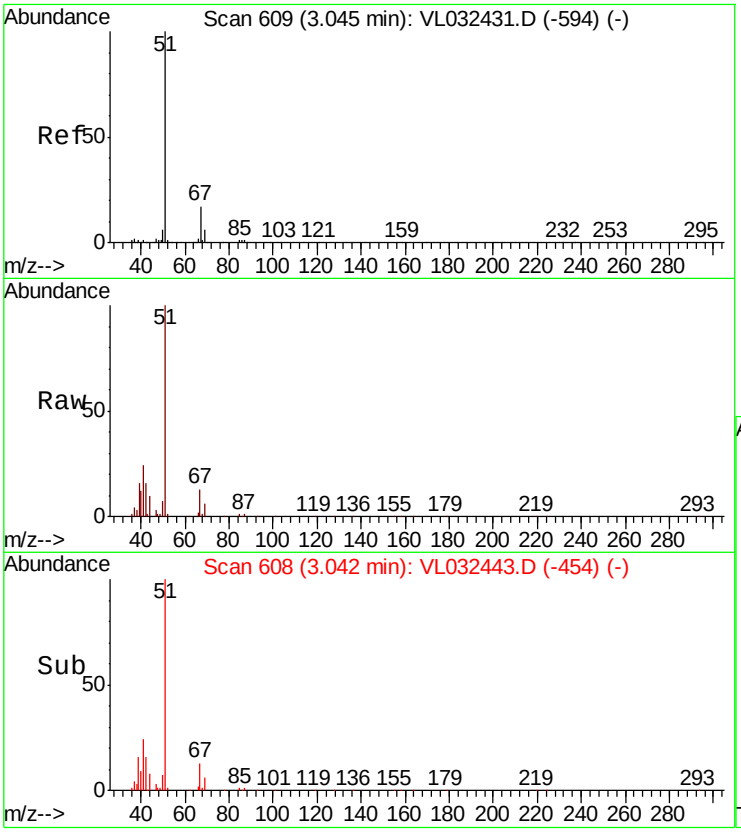


#2
Dichlorodifluoromethane
Concen: 0.490 ppbv
RT: 3.11 min Scan# 628
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 85 Resp: 115254

Ion	Ratio	Lower	Upper
85	100		
87	30.3	26.2	39.4





#3
Chlorodifluoromethane
Concen: 0.588 ppbv m
RT: 3.04 min Scan# 608
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 51 Resp: 97783

Ion	Ratio	Lower	Upper
51	100		
67	15.4	13.8	20.8

Instrument :
MSVOA_L
ClientSampleId :
SS-2

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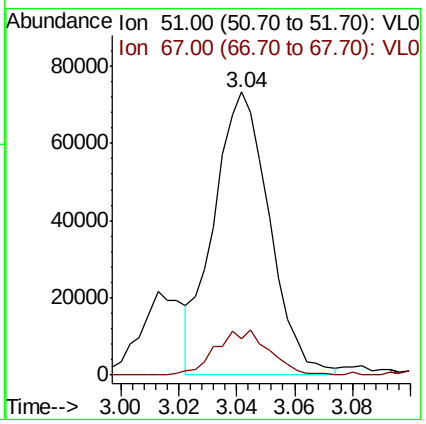
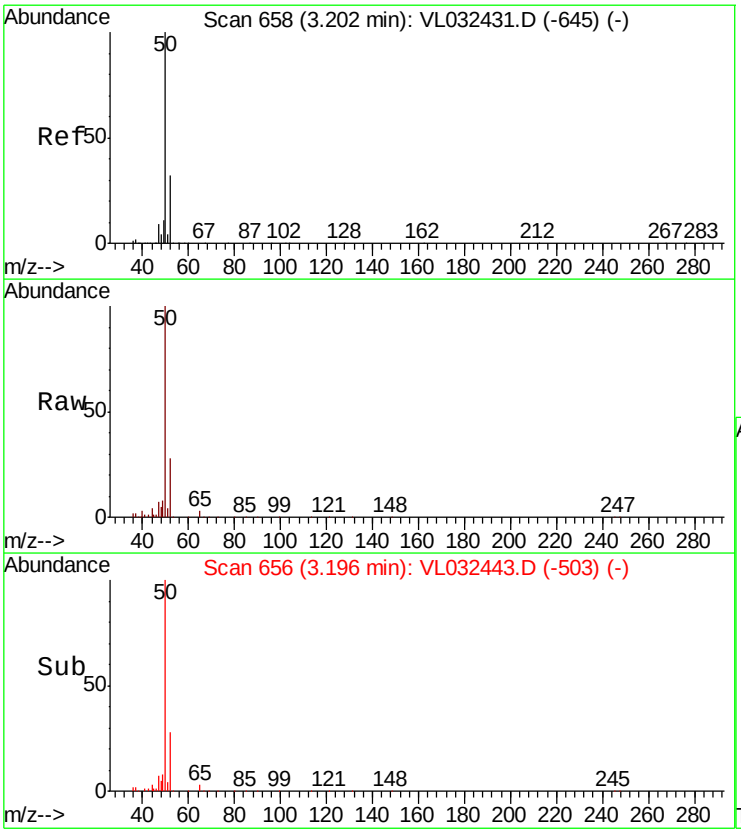
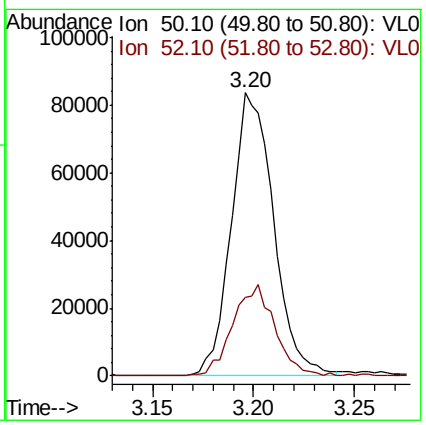


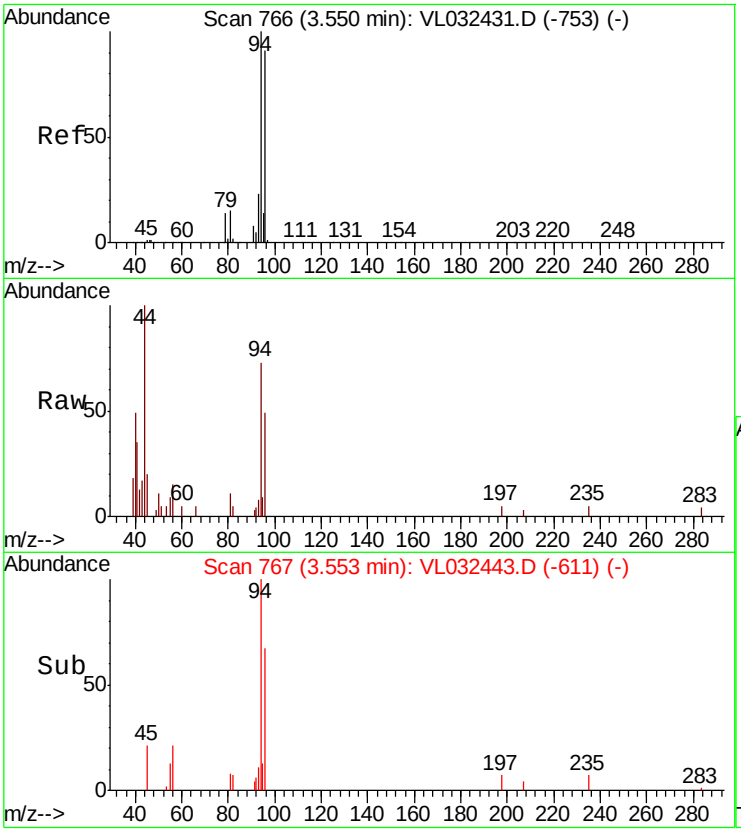


#4
Chloromethane
Concen: 1.222 ppbv
RT: 3.20 min Scan# 656
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 50 Resp: 123141

Ion	Ratio	Lower	Upper
50	100		
52	28.0	25.6	38.4





#6
Bromomethane
Concen: 0.126 ppbv m
RT: 3.55 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 94 Resp: 6563

Ion	Ratio	Lower	Upper
94	100		
96	67.5	72.8	109.2#

Instrument :
MSVOA_L
ClientSampleId :
SS-2

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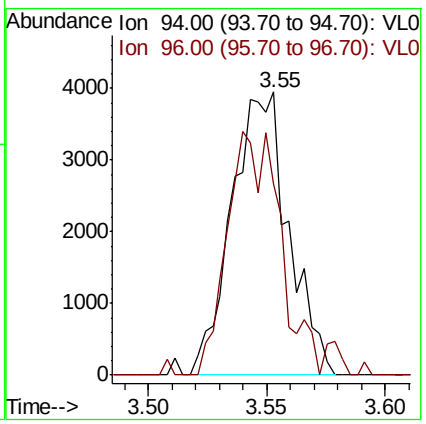
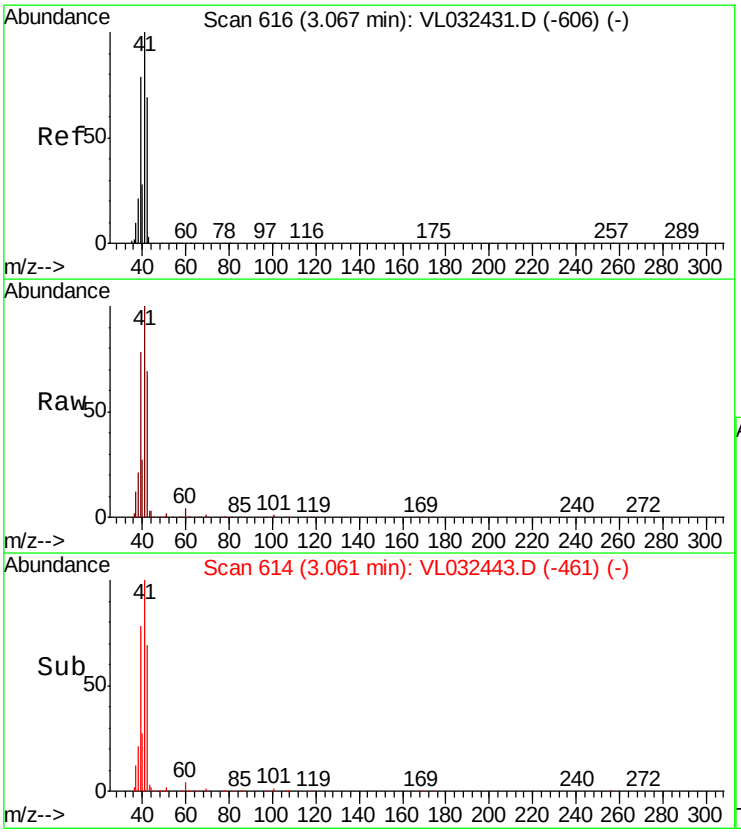
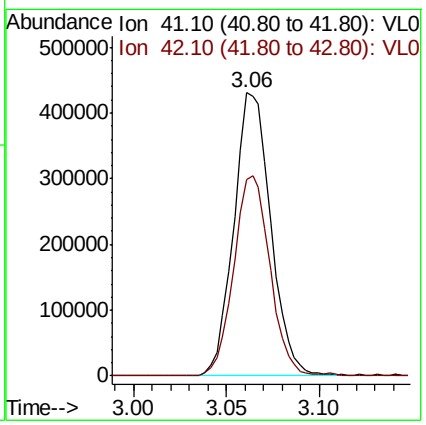


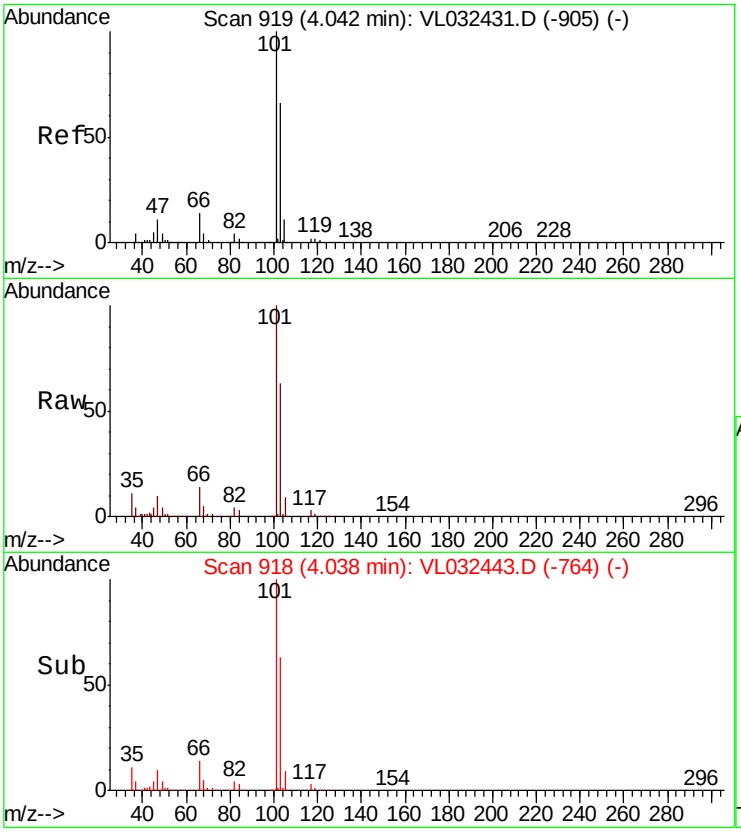


#9
Propene
Concen: 8.887 ppbv
RT: 3.06 min Scan# 614
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 41 Resp: 596384

Ion	Ratio	Lower	Upper
41	100		
42	69.3	56.6	84.8

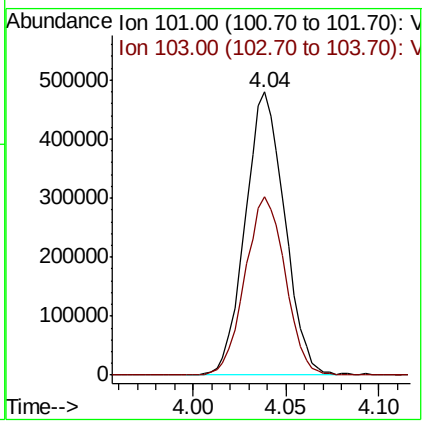




#11
Trichlorofluoromethane
Concen: 3.333 ppbv
RT: 4.04 min Scan# 918
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:101 Resp: 706571

Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.8	79.2



Instrument :
MSVOA_L
ClientSampleId :
SS-2

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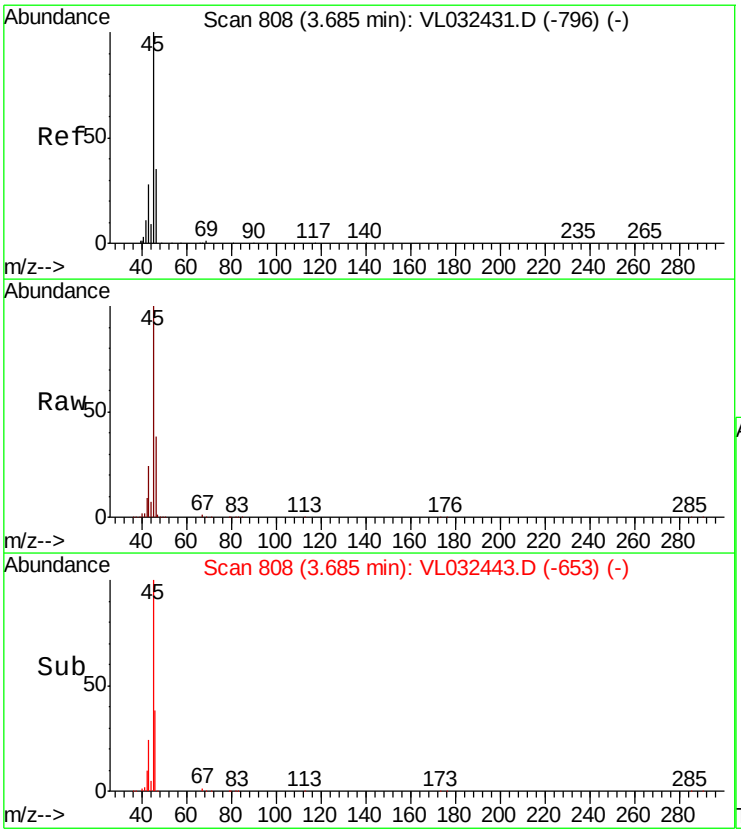
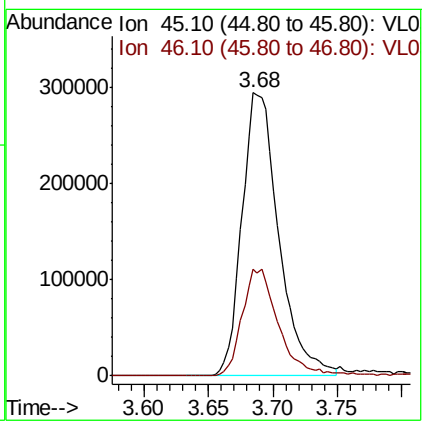
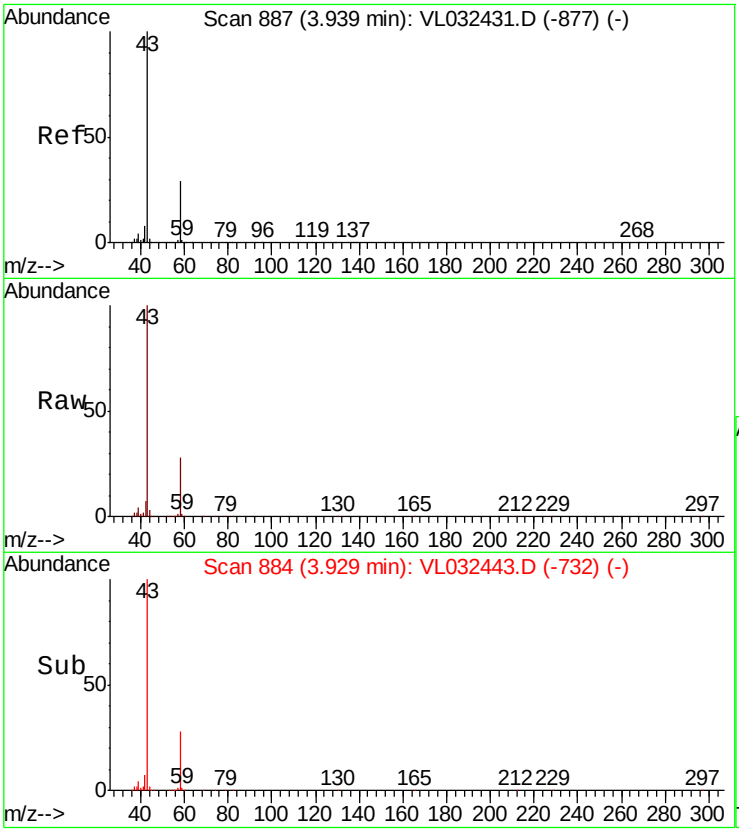


#13
Ethanol
Concen: 28.124 ppbv
RT: 3.68 min Scan# 808
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 45 Resp: 588280

Ion	Ratio	Lower	Upper
45	100		
46	37.9	14.2	56.8

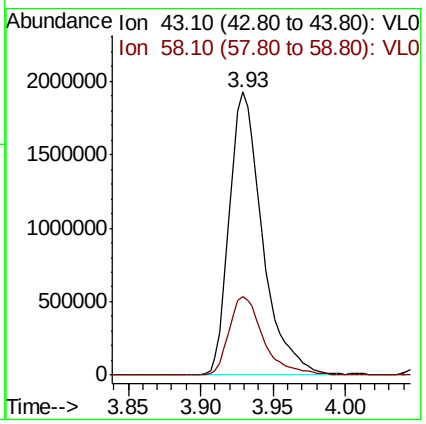




#15
Acetone
Concen: 18.458 ppbv
RT: 3.93 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 43 Resp: 3054624

Ion	Ratio	Lower	Upper
43	100		
58	29.0	22.6	33.8



Instrument :
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ClientSampleId :
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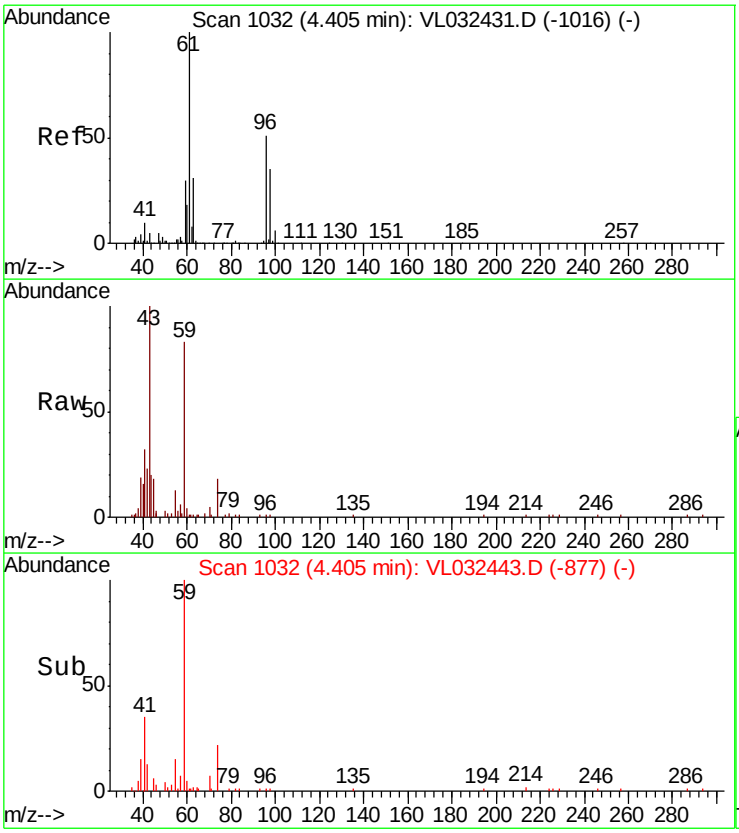
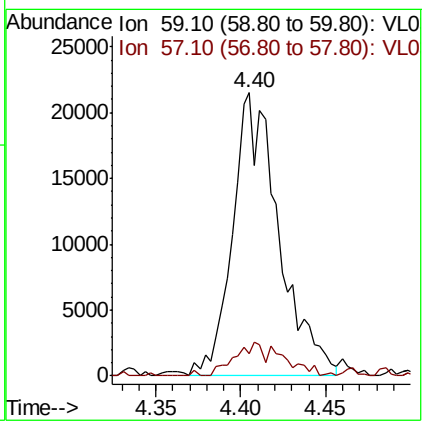
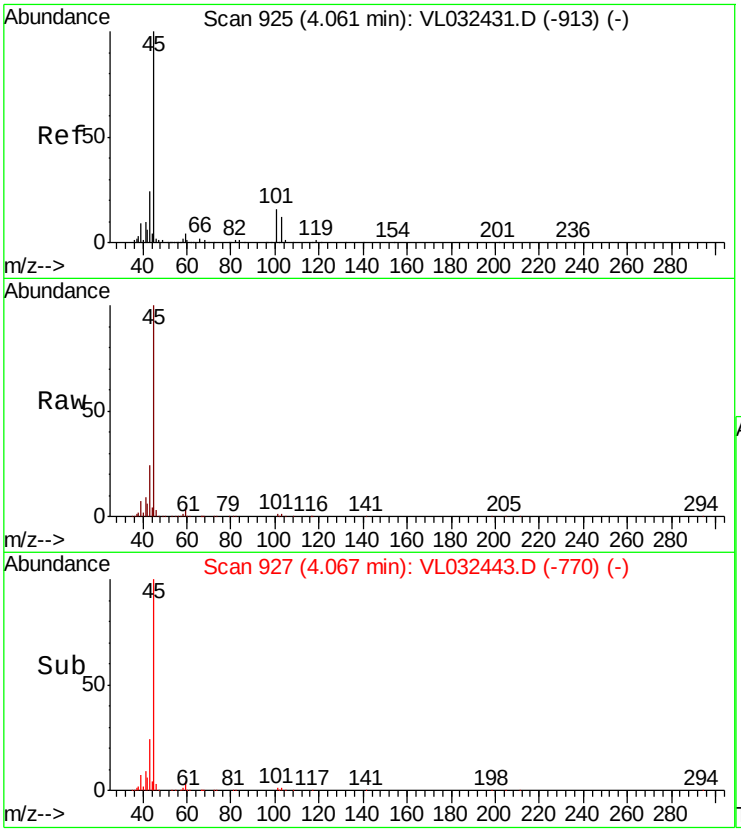


#17
tert-Butyl alcohol
Concen: 1.597 ppbv m
RT: 4.40 min Scan# 1032
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 59 Resp: 40681

Ion	Ratio	Lower	Upper
59	100		
57	0.0	0.0	0.0

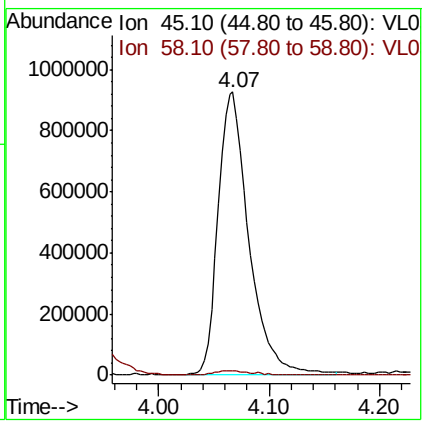




#19
Isopropyl Alcohol
Concen: 16.400 ppbv
RT: 4.07 min Scan# 927
Delta R.T. 0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 45 Resp: 1780486

Ion	Ratio	Lower	Upper
45	100		
58	2.0	2.0	3.0#



Instrument :
MSVOA_L
ClientSampleId :
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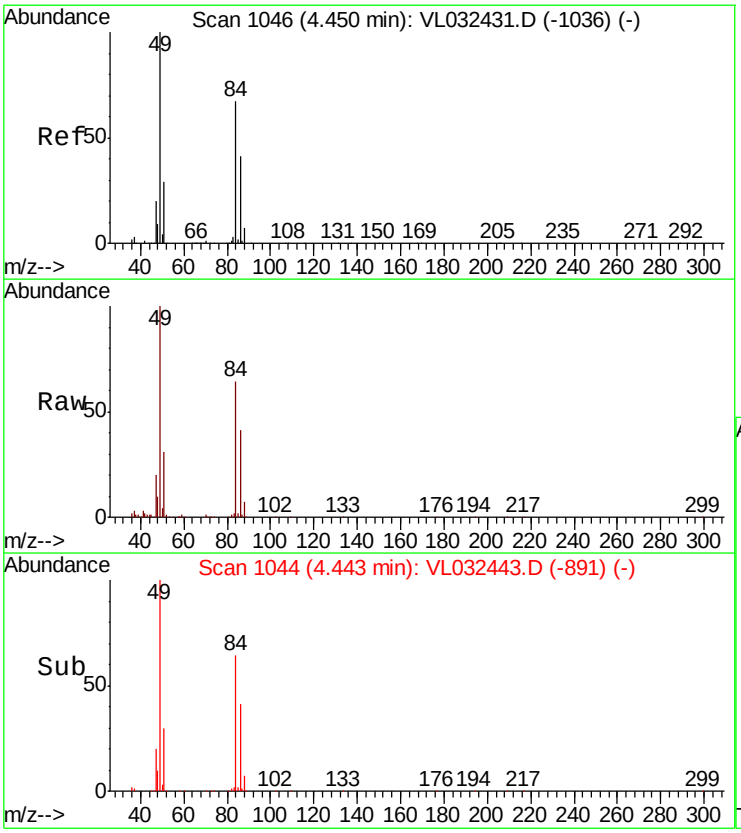
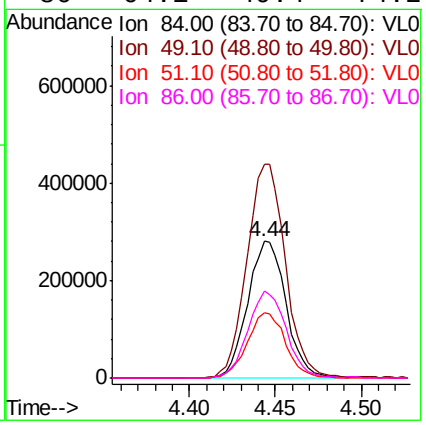
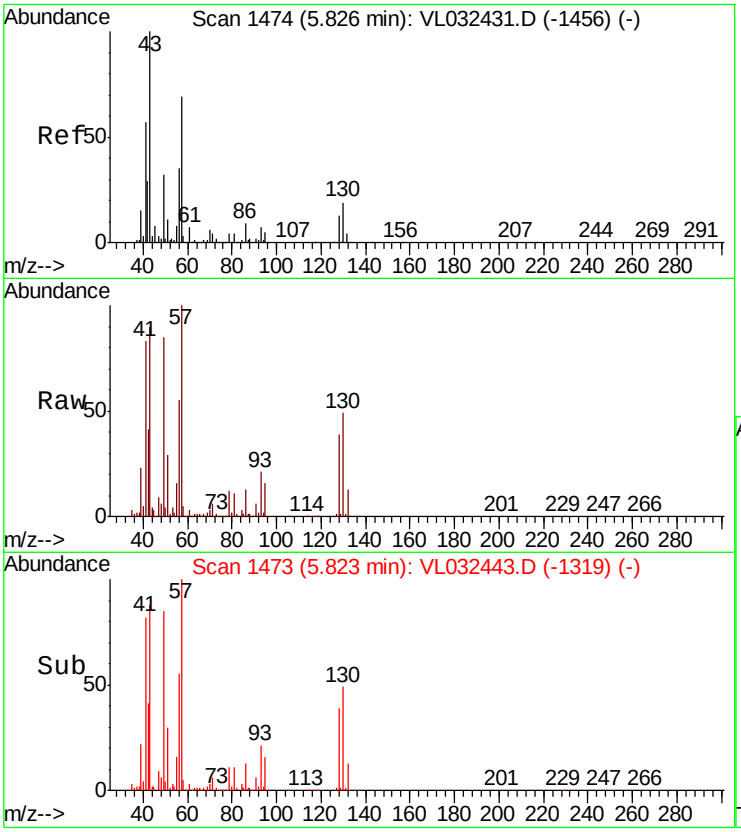


#20
Methylene Chloride
Concen: 6.869 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 84 Resp: 433473

Ion	Ratio	Lower	Upper
84	100		
49	156.5	119.1	178.7
51	47.9	35.2	52.8
86	64.1	49.4	74.2

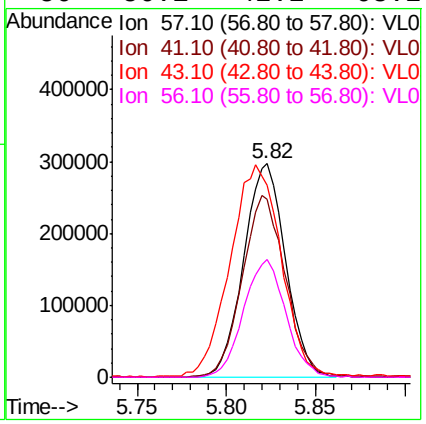




#26
Hexane
Concen: 2.784 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 57 Resp: 487256

Ion	Ratio	Lower	Upper
57	100		
41	88.0	69.0	103.4
43	122.2	172.1	258.1#
56	56.1	42.2	63.2



Instrument :
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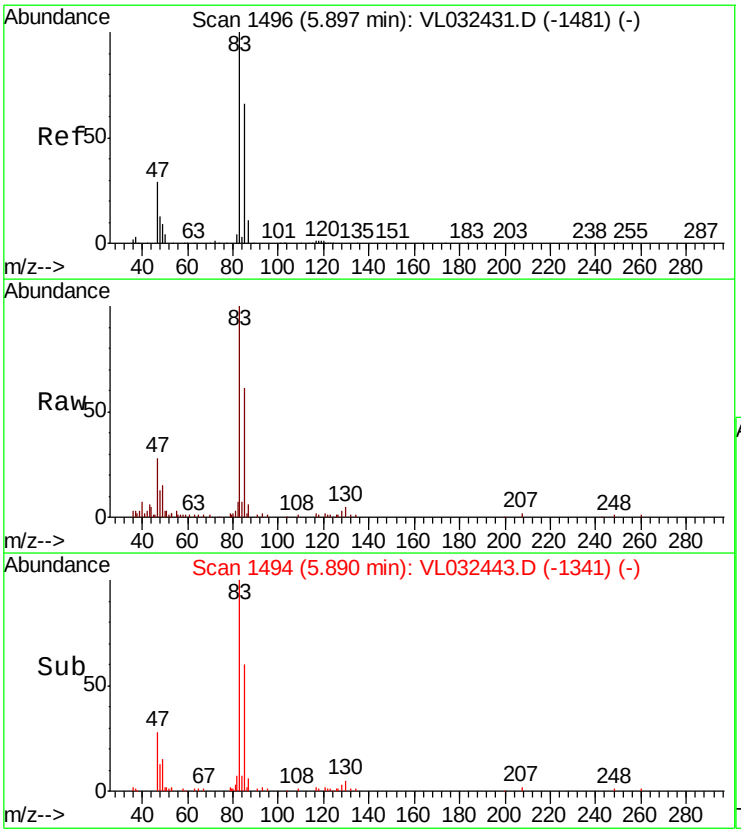
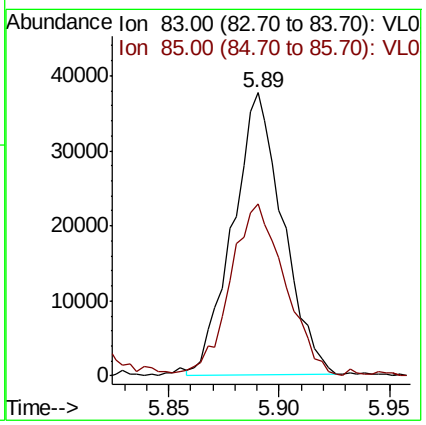
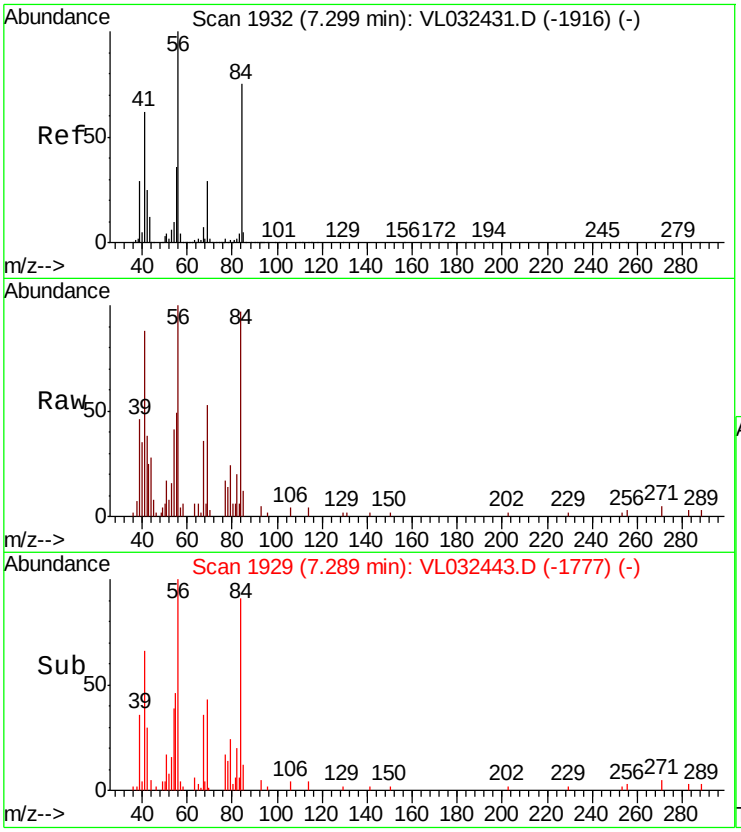


#29
Chloroform
Concen: 0.222 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 83 Resp: 59248

Ion	Ratio	Lower	Upper
83	100		
85	60.4	52.5	78.7





#30
Cyclohexane
Concen: 0.199 ppbv m
RT: 7.29 min Scan# 1929
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 84 Resp: 25453

Ion	Ratio	Lower	Upper
84	100		
56	0.0	113.5	170.3#
41	0.0	68.1	102.1#

Instrument :
MSVOA_L
ClientSampleId :
SS-2

Manual Integrations APPROVED
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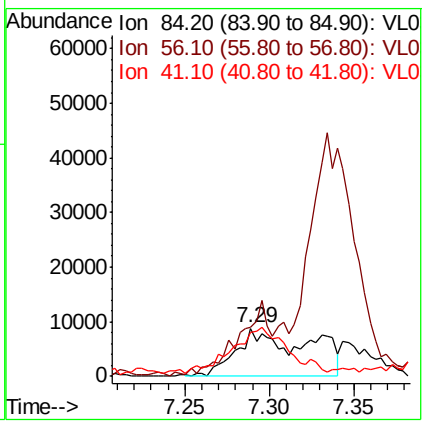
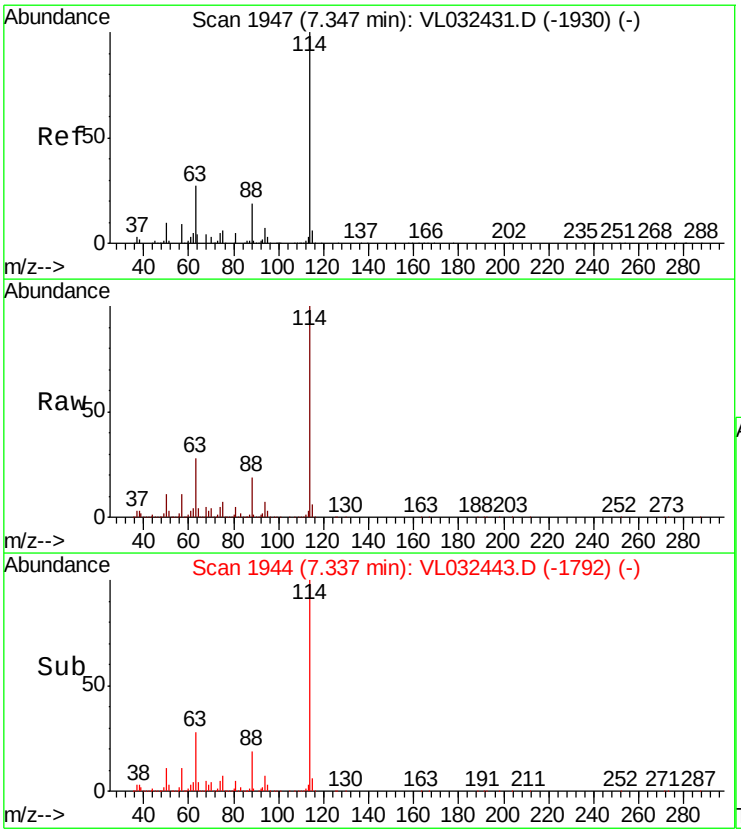
9/4/2018 8:26:20 AM

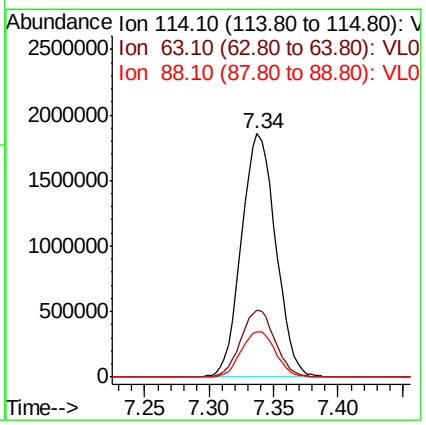


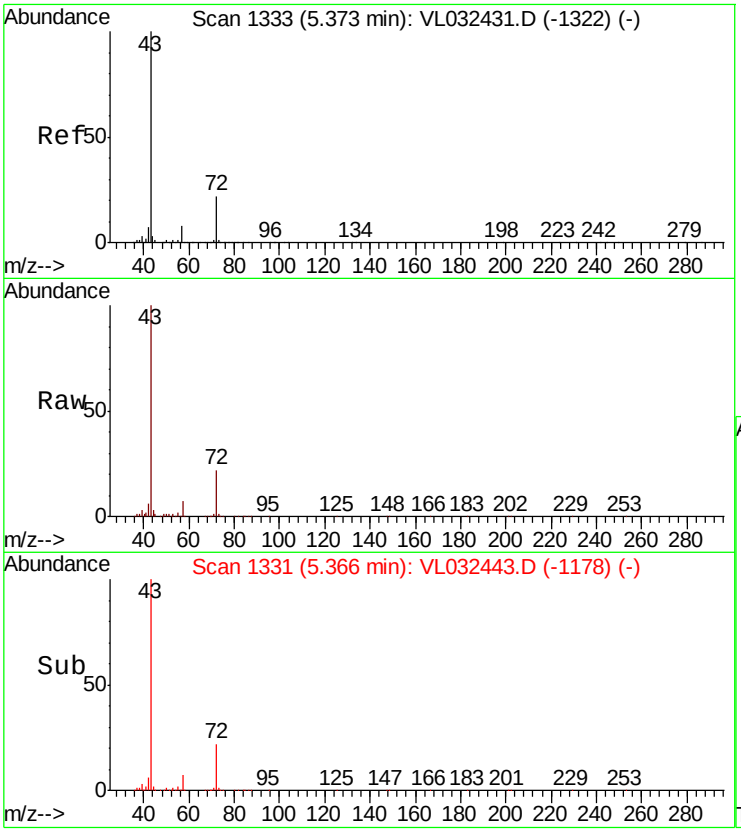


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:114 Resp: 3455637

Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.2	33.4
88	18.8	15.0	22.4

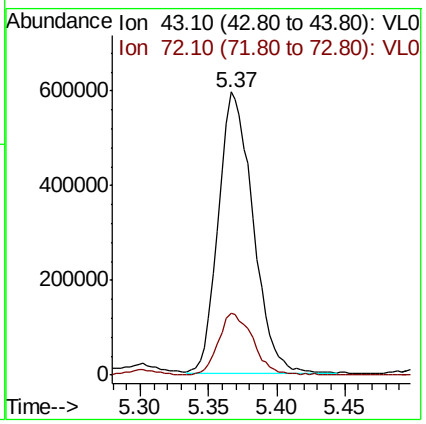




#34
2-Butanone
Concen: 4.547 ppbv
RT: 5.37 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 43 Resp: 1043672

Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.8	26.6



Instrument :
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ClientSampleId :
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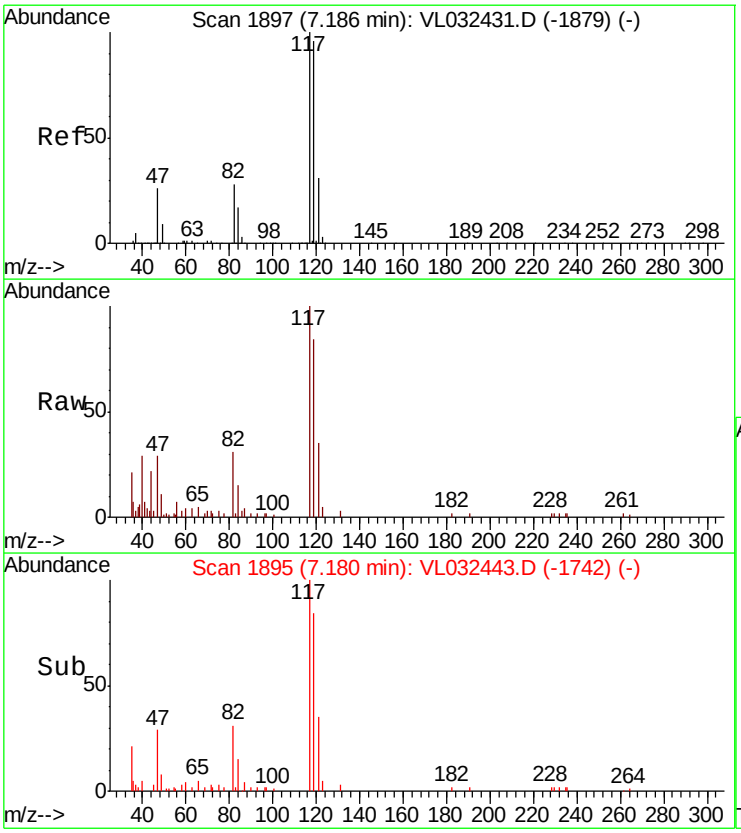
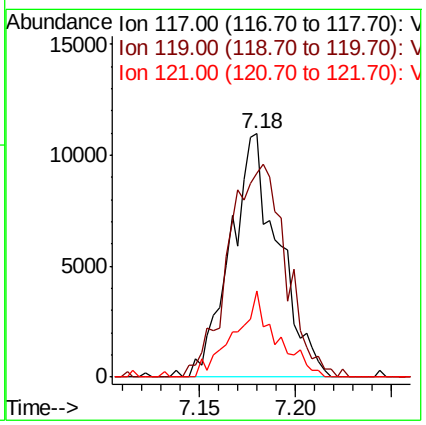
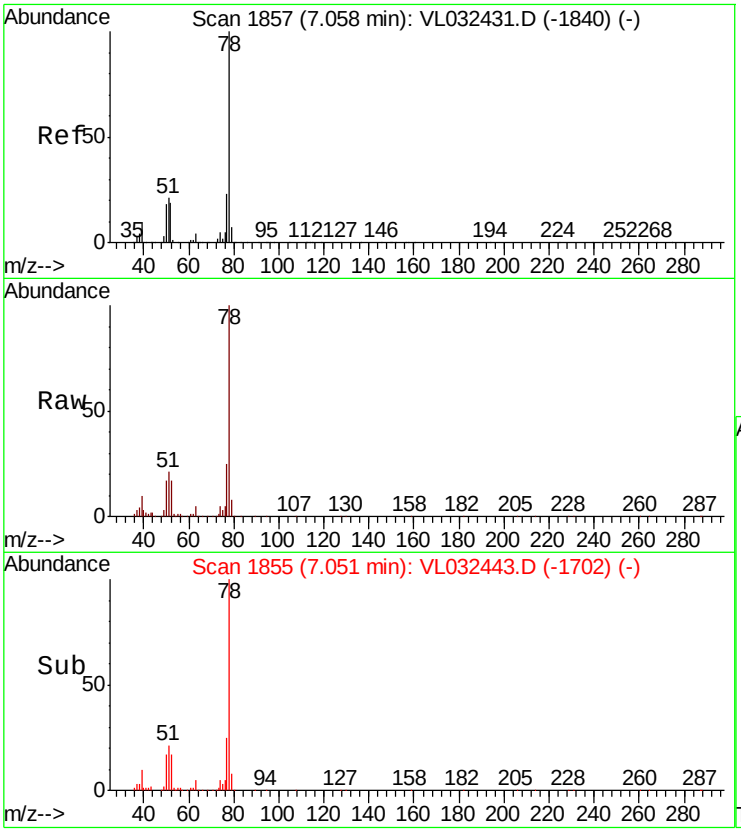


#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 7.18 min Scan# 1895
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:117 Resp: 18942

Ion	Ratio	Lower	Upper
117	100		
119	83.7	76.6	115.0
121	35.2	24.6	36.8

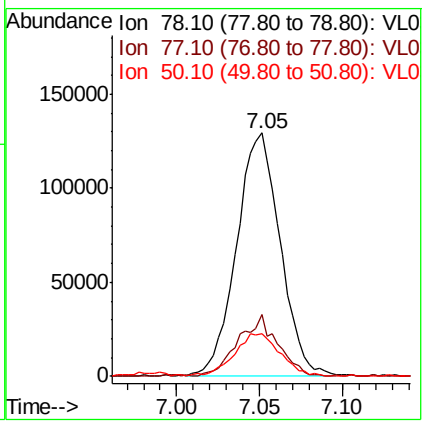




#36
Benzene
Concen: 0.801 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 78 Resp: 235620

Ion	Ratio	Lower	Upper
78	100		
77	25.1	18.4	27.6
50	16.9	14.4	21.6



Instrument :
MSVOA_L
ClientSampleId :
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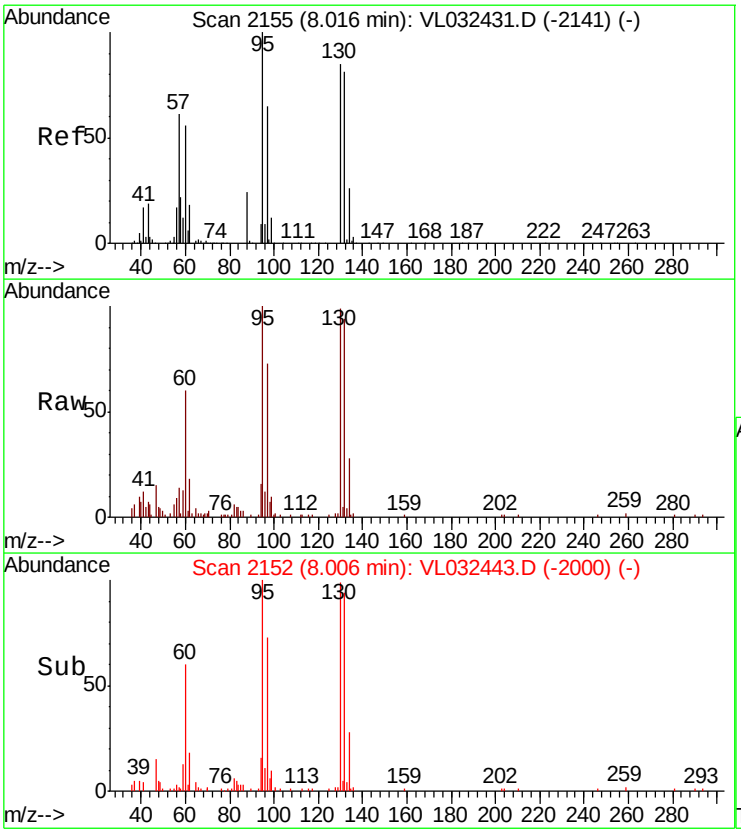
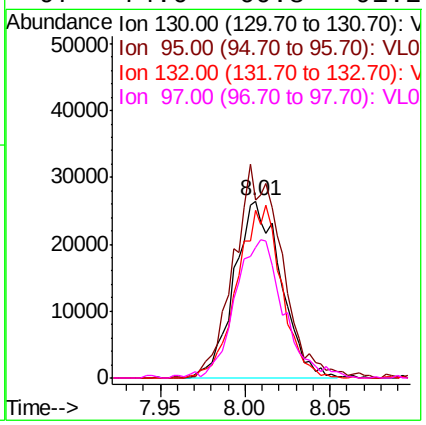
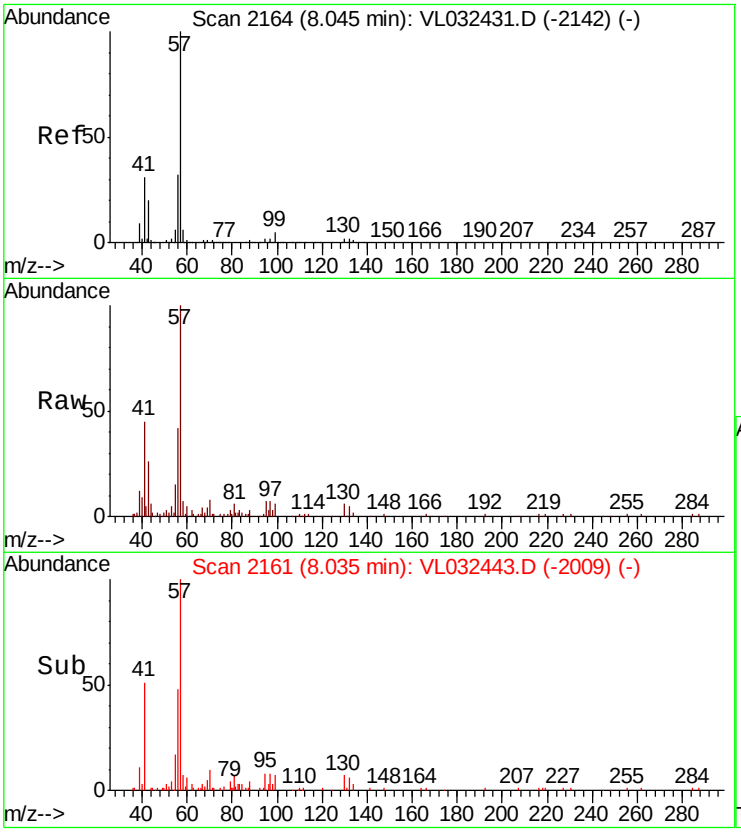


#38
Trichloroethene
Concen: 0.454 ppbv m
RT: 8.01 min Scan# 2152
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:130 Resp: 50710

Ion	Ratio	Lower	Upper
130	100		
95	100.8	94.2	141.4
132	94.8	76.2	114.4
97	74.0	60.8	91.2





#44
2,2,4-Trimethylpentane
Concen: 0.148 ppbv
RT: 8.03 min Scan# 2161
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 57 Resp: 84305

Ion	Ratio	Lower	Upper
57	100		
41	43.5	24.4	36.6#
56	50.6	25.7	38.5#

Instrument :
MSVOA_L
ClientSampleId :
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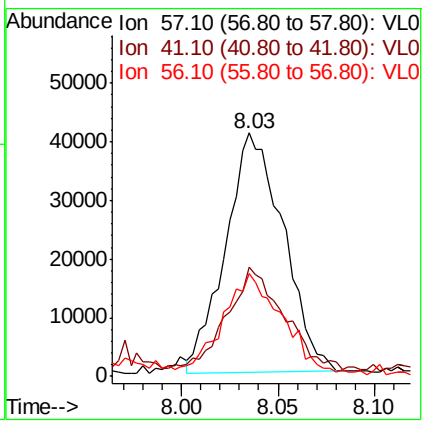
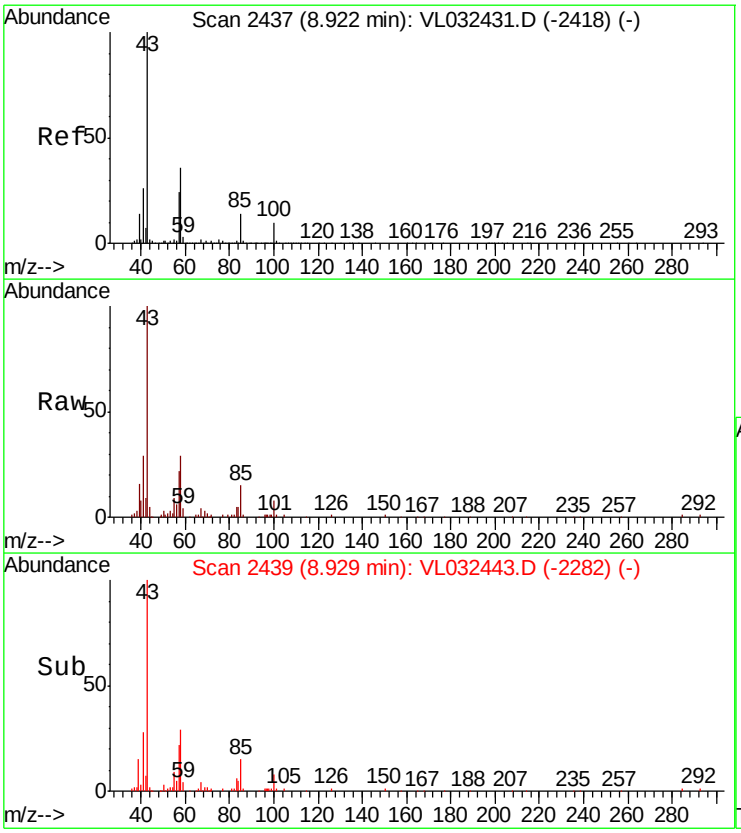
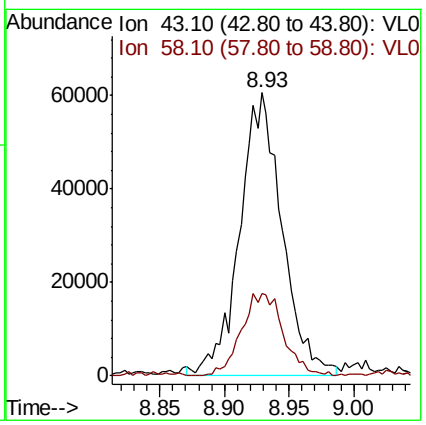


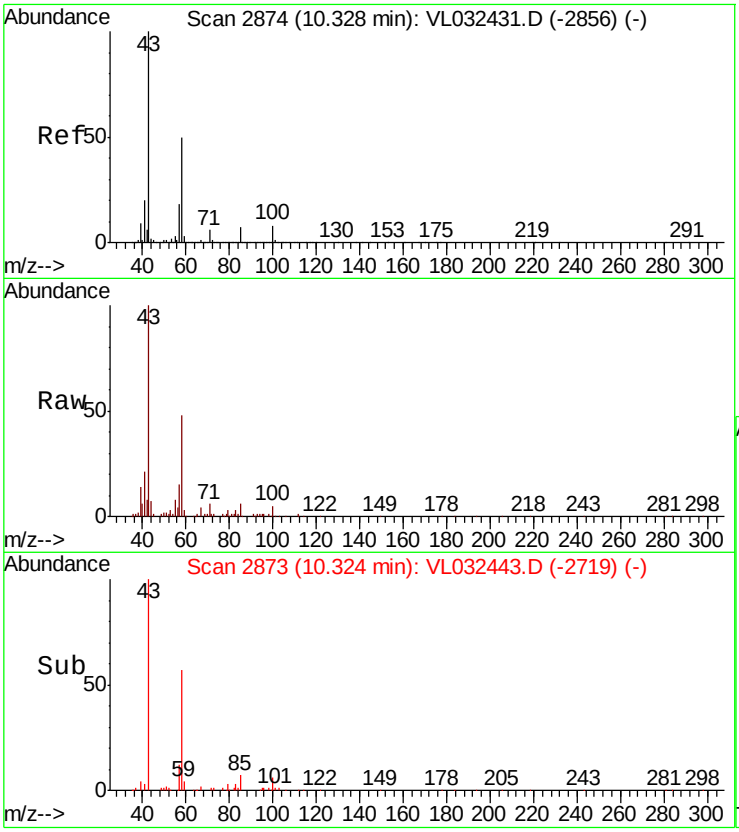


#50
4-Methyl-2-Pentanone
Concen: 0.400 ppbv m
RT: 8.93 min Scan# 2439
Delta R.T. 0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 43 Resp: 138199

Ion	Ratio	Lower	Upper
43	100		
58	29.1	29.0	43.4





#51
2-Hexanone
Concen: 0.616 ppbv
RT: 10.32 min Scan# 2873
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 43 Resp: 137207

Ion	Ratio	Lower	Upper
43	100		
58	46.9	39.2	58.8
98	2.1	0.4	0.6#

Instrument :
MSVOA_L
ClientSampleId :
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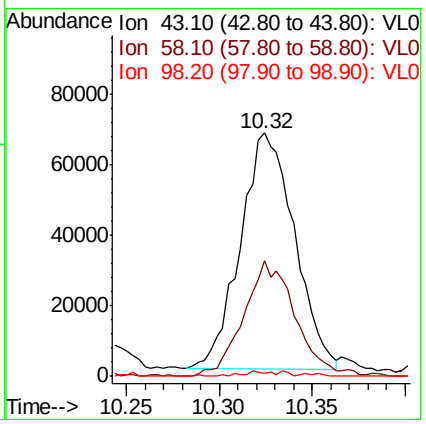
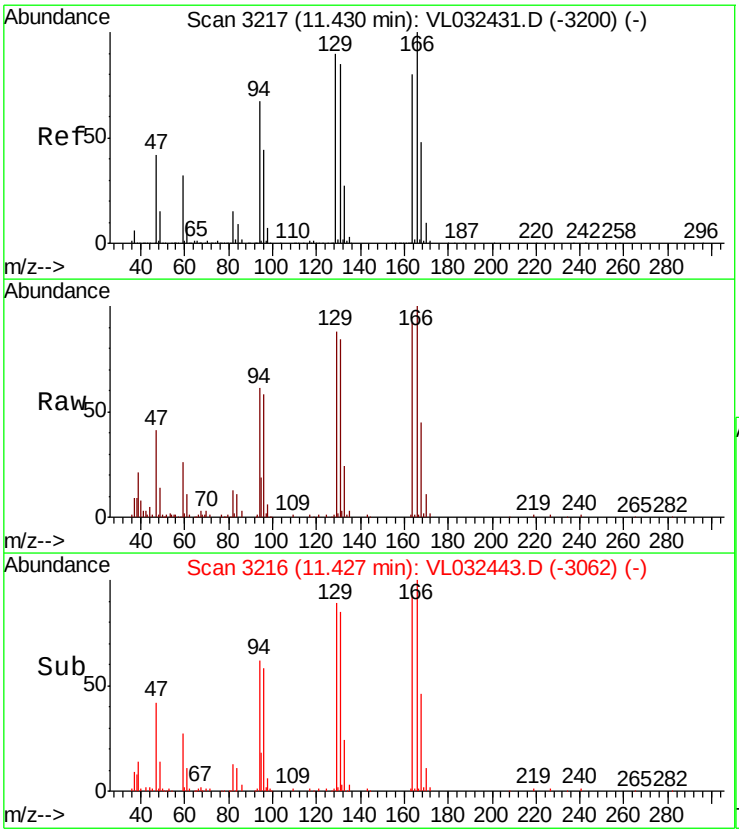
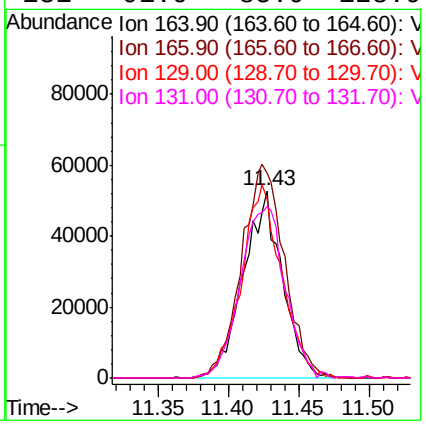


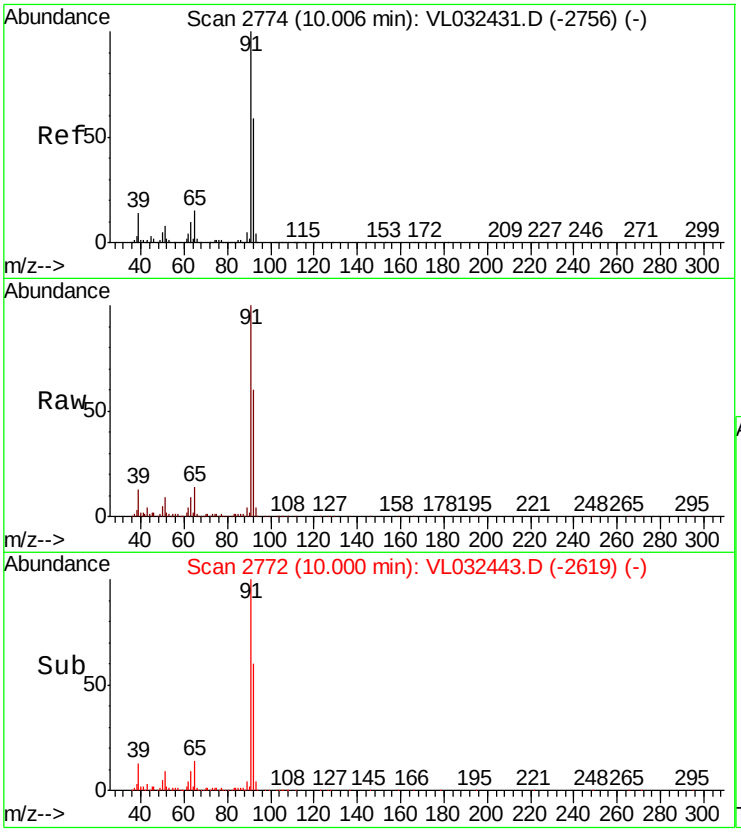


#52
Tetrachloroethene
Concen: 1.115 ppbv m
RT: 11.43 min Scan# 3216
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:164 Resp: 101650

Ion	Ratio	Lower	Upper
164	100		
166	109.2	100.6	150.8
129	95.6	89.9	134.9
131	91.9	85.9	128.9





#53
Toluene
Concen: 3.401 ppbv
RT: 10.00 min Scan# 2772
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 91 Resp: 1045353

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.1	72.1

Instrument :
MSVOA_L
ClientSampleId :
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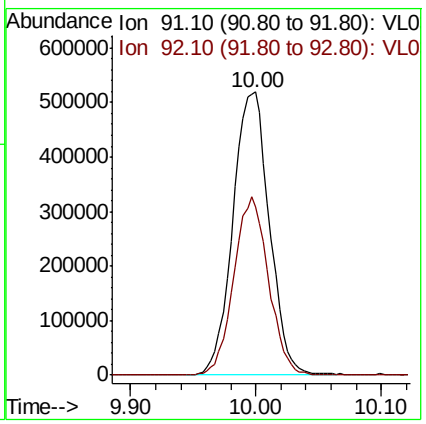
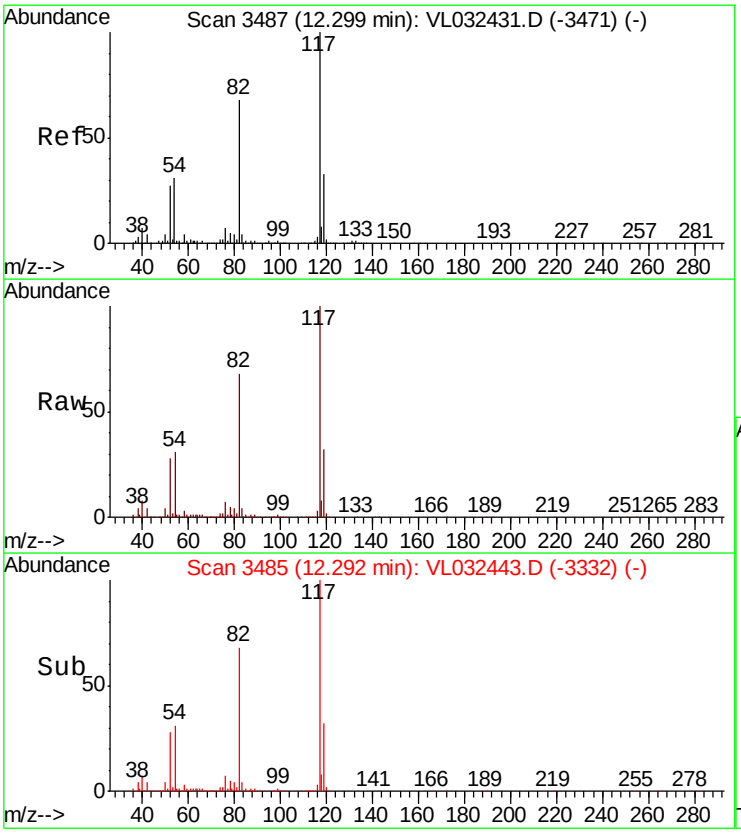
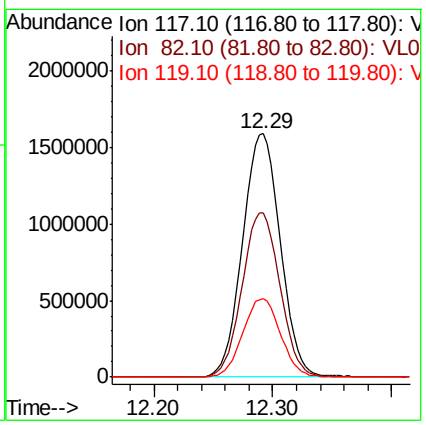


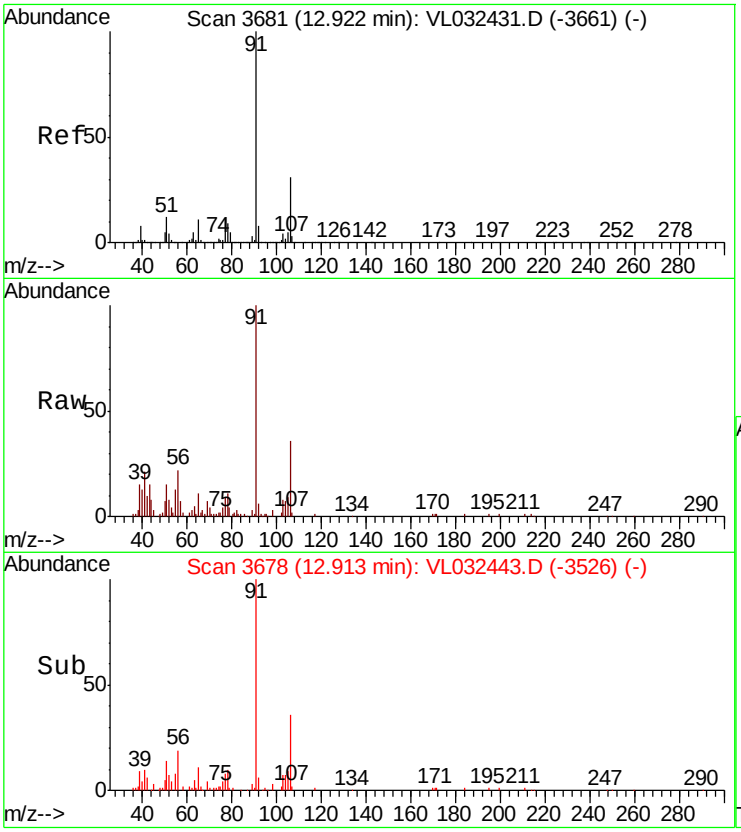


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:117 Resp: 3498106

Ion	Ratio	Lower	Upper
117	100		
82	67.6	53.0	79.6
119	32.3	45.9	68.9#





#58
Ethyl Benzene
Concen: 0.203 ppbv m
RT: 12.91 min Scan# 3678
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 91 Resp: 85011

Ion	Ratio	Lower	Upper
91	100		
106	36.3	24.8	37.2

Instrument :
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ClientSampleId :
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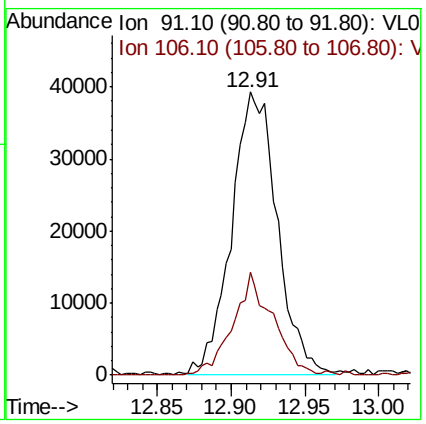
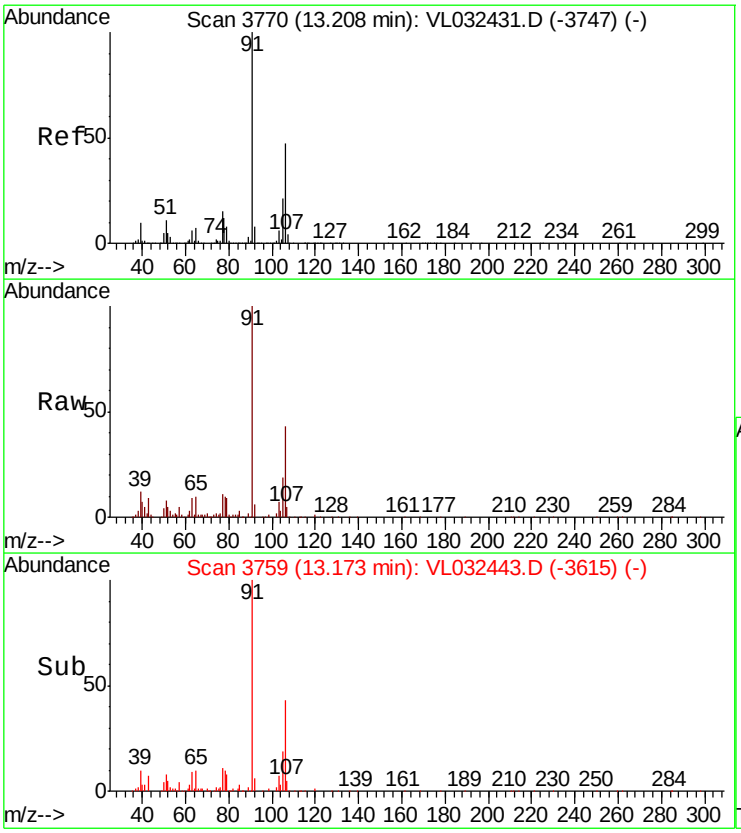
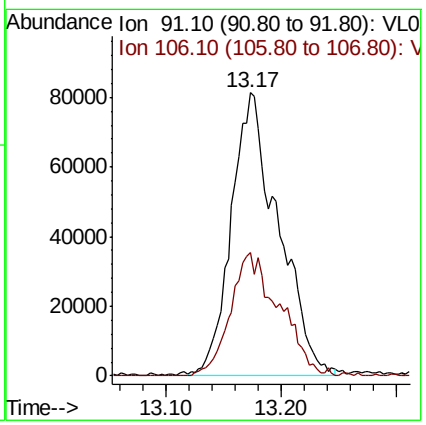


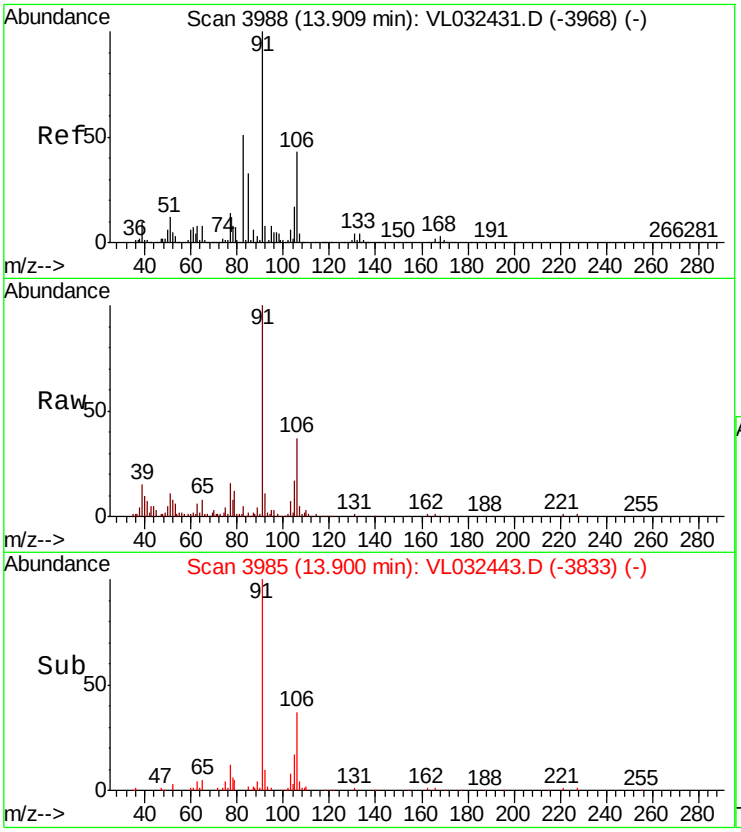


#59
m/p-Xylene
Concen: 0.618 ppbv m
RT: 13.17 min Scan# 3759
Delta R.T. -0.04 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 91 Resp: 230812

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.6	55.0#





#60
o-Xylene
Concen: 0.303 ppbv
RT: 13.90 min Scan# 3985
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 91 Resp: 111063

Ion	Ratio	Lower	Upper
91	100		
106	44.4	21.9	65.7

Instrument :
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ClientSampleId :
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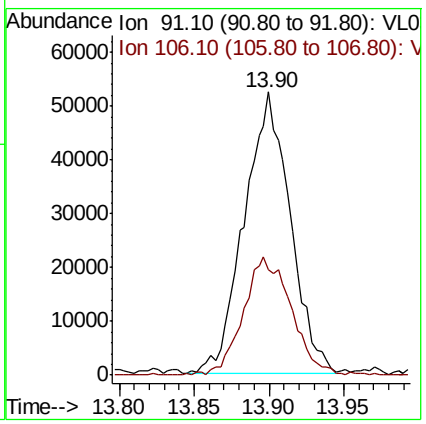
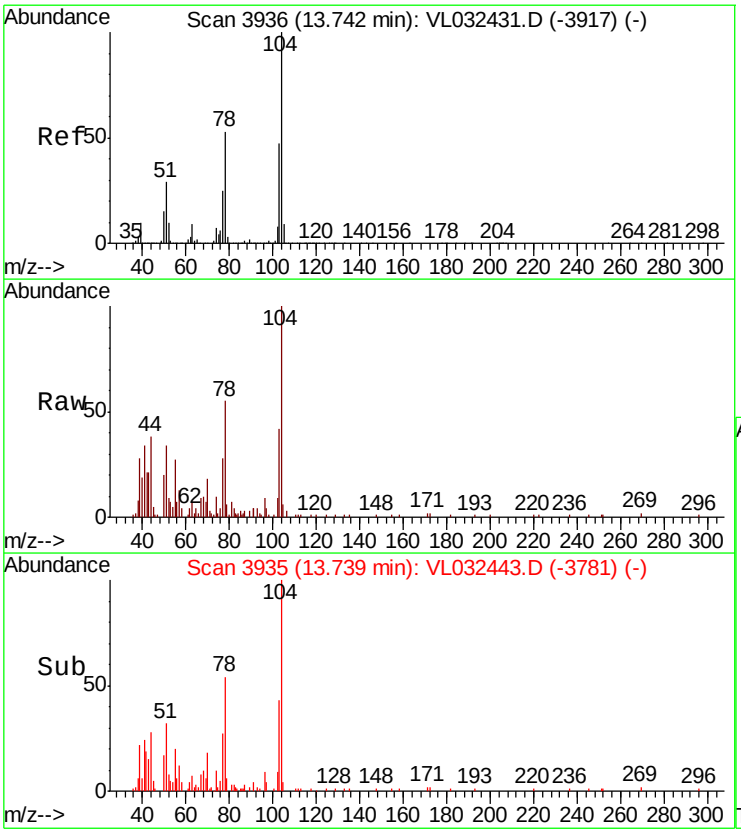
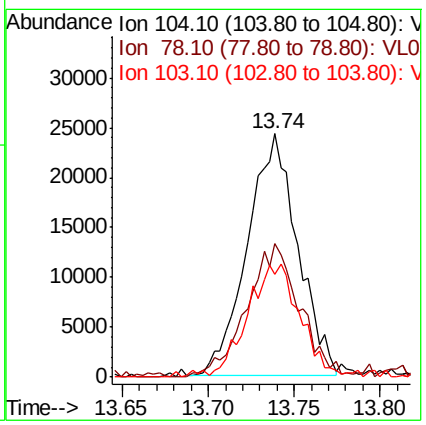


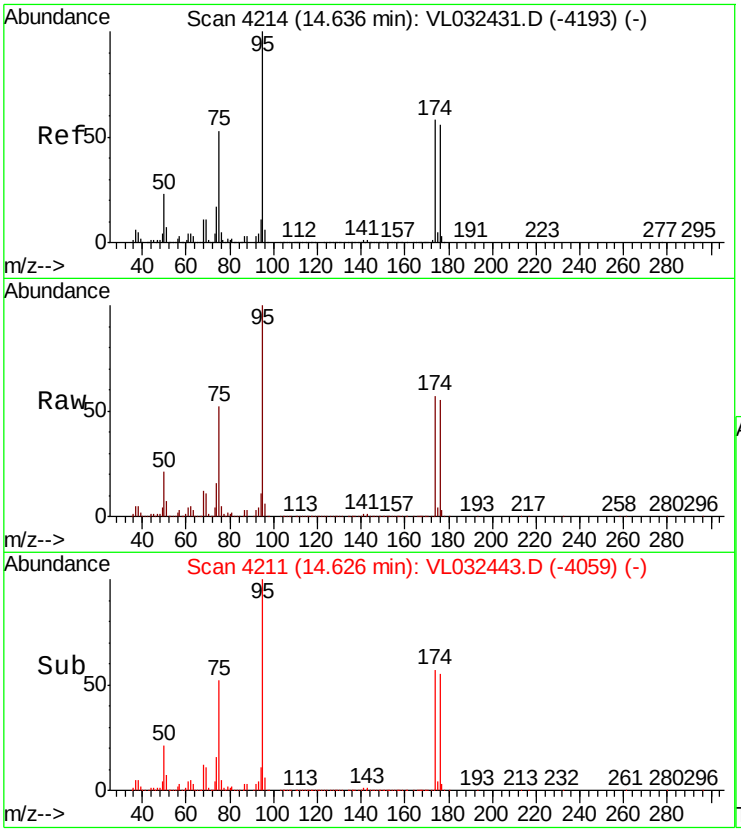


#61
Styrene
Concen: 0.208 ppbv
RT: 13.74 min Scan# 3935
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:104 Resp: 49270

Ion	Ratio	Lower	Upper
104	100		
78	58.0	41.8	62.8
103	50.8	38.0	57.0

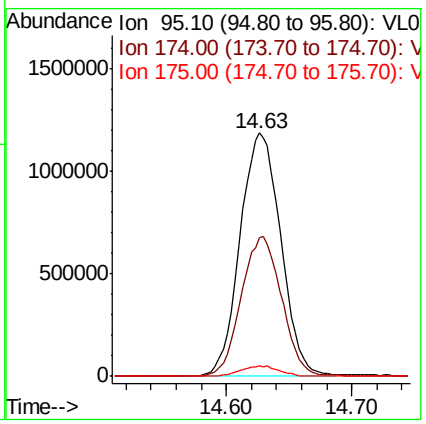




#68
1-Bromo-4-Fluorobenzene
Concen: 10.312 ppbv
RT: 14.63 min Scan# 4211
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion: 95 Resp: 2678040

Ion	Ratio	Lower	Upper
95	100		
174	57.3	46.3	69.5
175	4.2	3.4	5.0



Instrument :
MSVOA_L
ClientSampleId :
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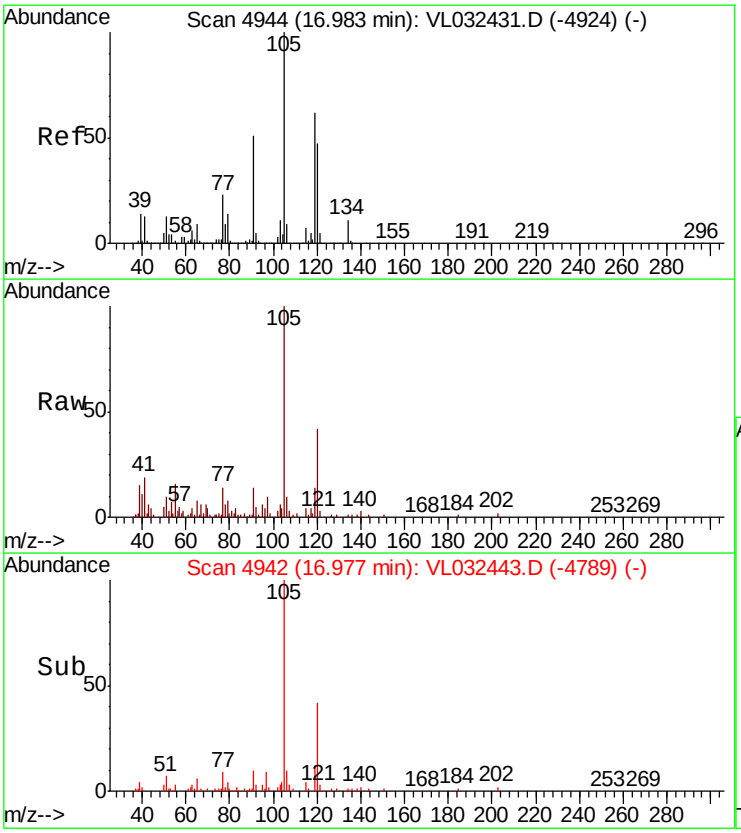
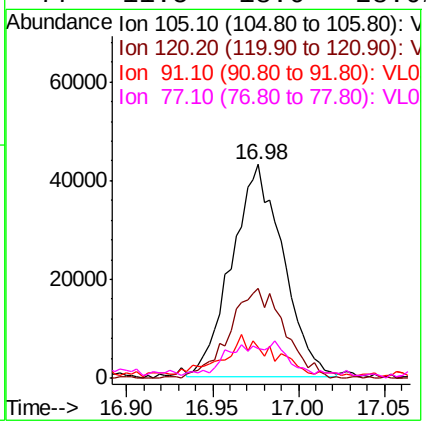
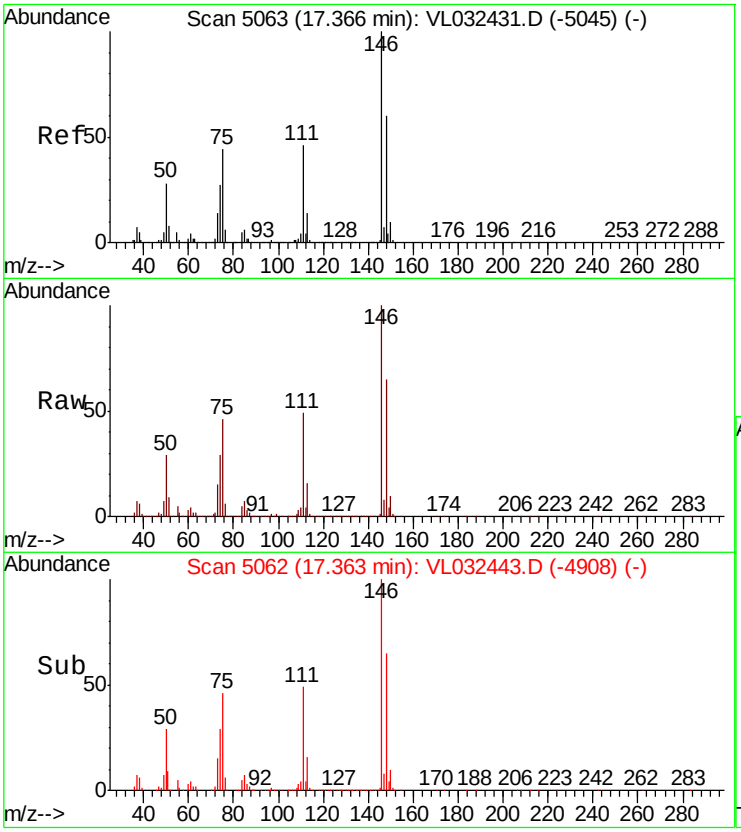


#74
1,2,4-Trimethylbenzene
Concen: 0.203 ppbv
RT: 16.98 min Scan# 4942
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:105 Resp: 89080

Ion	Ratio	Lower	Upper
105	100		
120	42.1	37.8	56.8
91	12.5	41.4	62.0#
77	11.5	18.6	28.0#

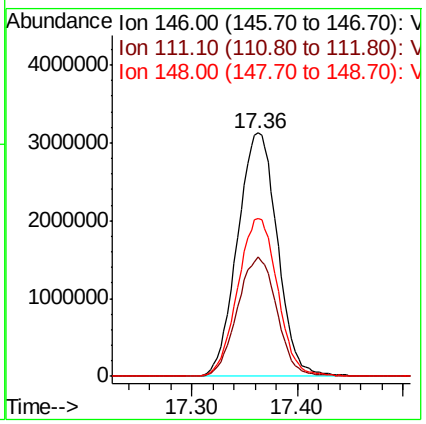




#76
1,4-Dichlorobenzene
Concen: 34.109 ppbv
RT: 17.36 min Scan# 5062
Delta R.T. -0.00 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:146 Resp: 8232460

Ion	Ratio	Lower	Upper
146	100		
111	48.4	23.4	70.2
148	64.9	32.0	96.2



Instrument :
MSVOA_L
ClientSampleId :
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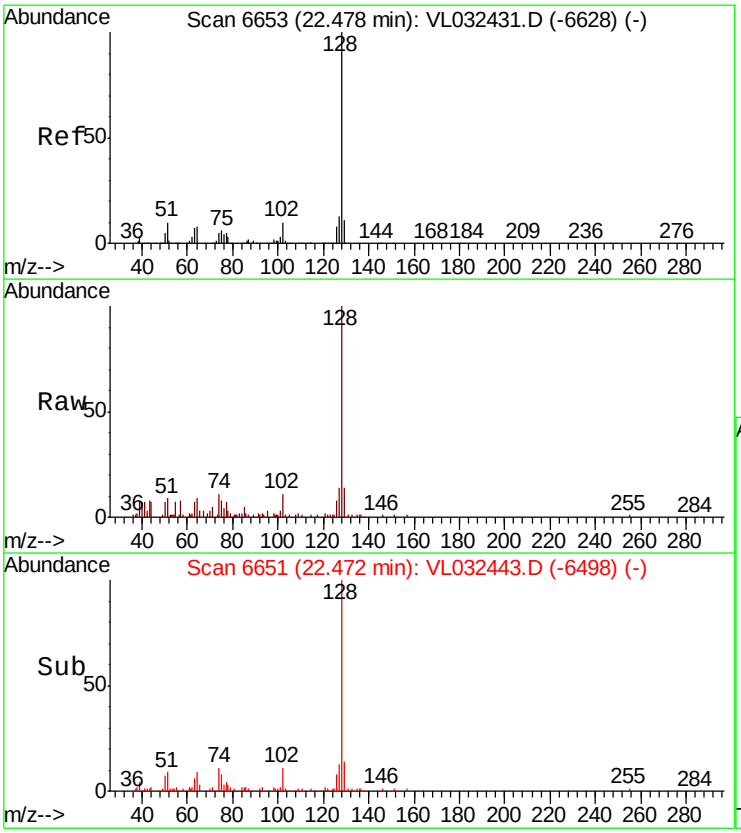

#79
Naphthalene
Concen: 0.260 ppbv m
RT: 22.47 min Scan# 6651
Delta R.T. -0.01 min
Lab File: VL032443.D
Acq: 31 Aug 2018 16:23

Tgt Ion:128 Resp: 92573

Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.2	15.2
129	13.8	8.5	12.7#