

Data File : VL033577.D
Acq On : 10 Apr 2019 23:37
Operator : SY/AP
Sample : K2312-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A-7

Quant Time: Apr 11 03:47:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	802073	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1927259	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1848301	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1484605 10.25 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.50%

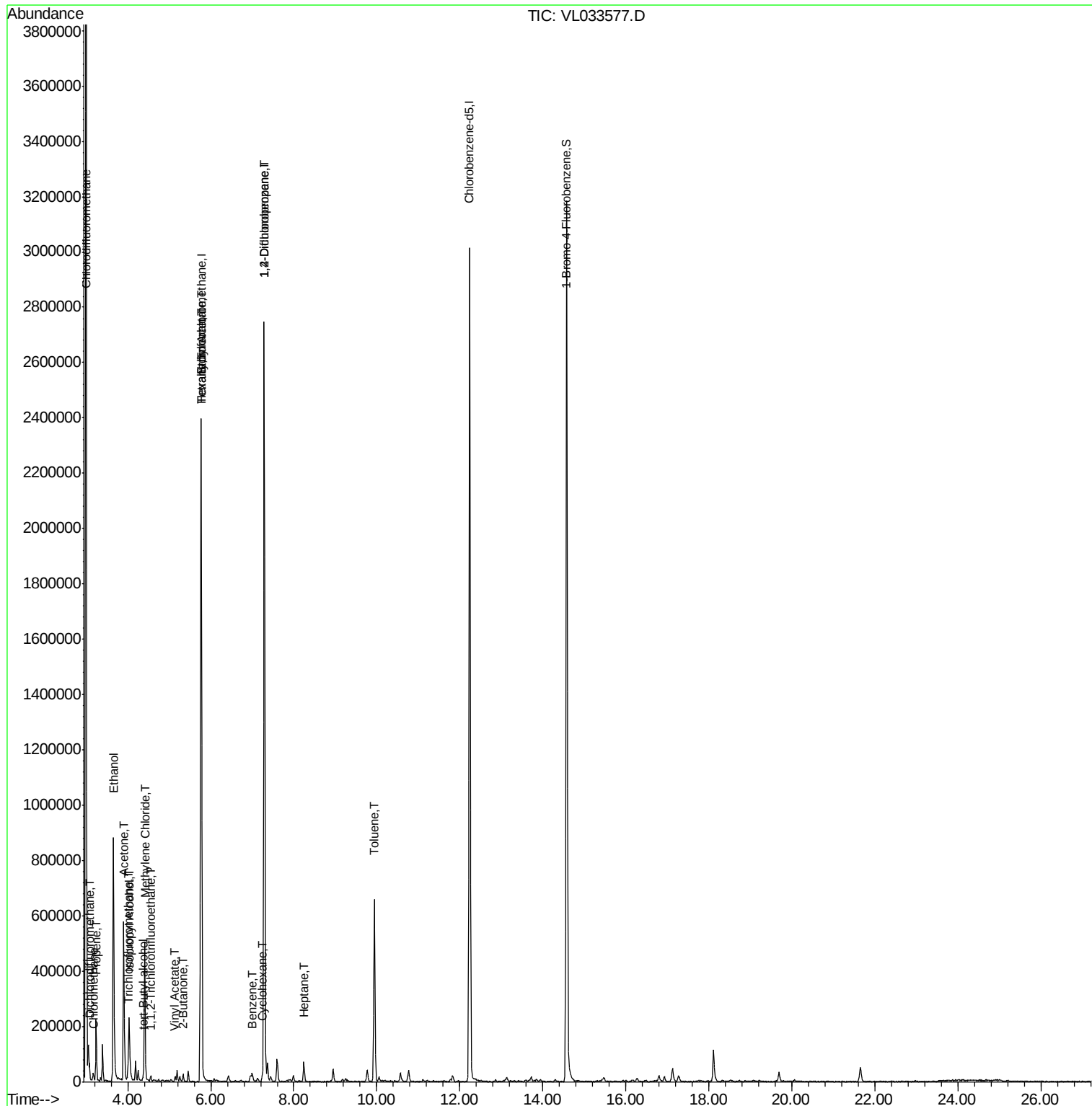
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	38167	0.326	ppbv	97
3) Chlorodifluoromethane	2.99	51	3442771	37.284	ppbv #	58
4) Chloromethane	3.17	50	21753	0.445	ppbv	98
9) Propene	3.24	41	50329	1.298	ppbv	91
10) Heptane	8.25	43	15075	0.145	ppbv #	57
11) Trichlorofluoromethane	4.01	101	30804	0.214	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	3862	0.040	ppbv #	14
13) Ethanol	3.65	45	948483	94.520	ppbv	64
15) Acetone	3.90	43	554441	5.749	ppbv	98
17) tert-Butyl alcohol	4.36	59	1385	0.078	ppbv #	73
19) Isopropyl Alcohol	4.03	45	250202	4.102	ppbv #	99
20) Methylene Chloride	4.41	84	173768	4.245	ppbv	96
23) Vinyl Acetate	5.15	43	4752	0.035	ppbv #	46
25) Ethyl Acetate	5.78	43	474378	2.651	ppbv #	88
26) Hexane	5.78	57	455123	5.721	ppbv #	52
30) Cyclohexane	7.25	84	2611	0.041	ppbv #	1
34) 2-Butanone	5.33	43	27294	0.236	ppbv	100
36) Benzene	7.00	78	8532	0.053	ppbv #	85
39) 1,2-Dichloropropane	7.29	63	507083	8.005	ppbv #	24
41) Tetrahydrofuran	5.78	42	186834	2.934	ppbv #	50
53) Toluene	9.94	91	430398	2.290	ppbv	98

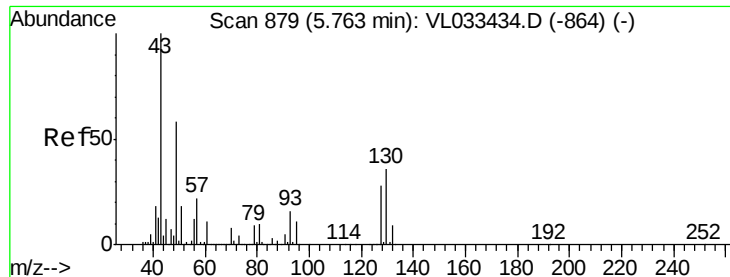
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

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MSVOA_L

ClientSampleId :

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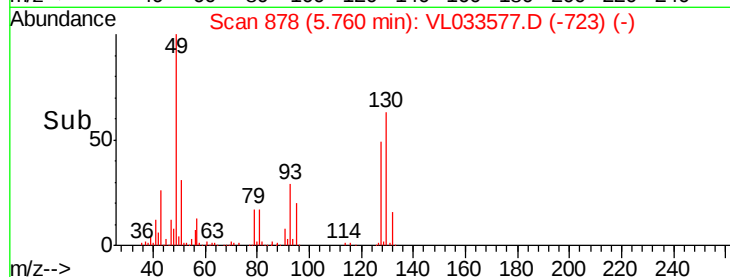
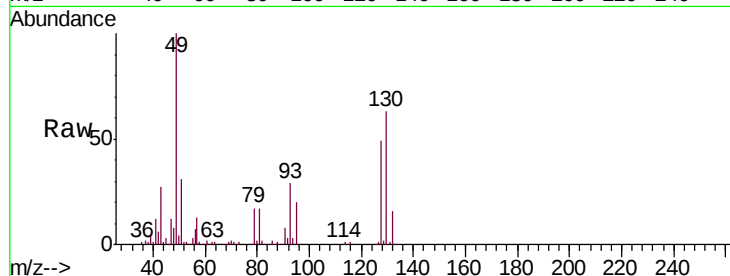
Tgt Ion: 49 Resp: 802073

Ion Ratio Lower Upper

49 100

128 49.4 24.0 72.0

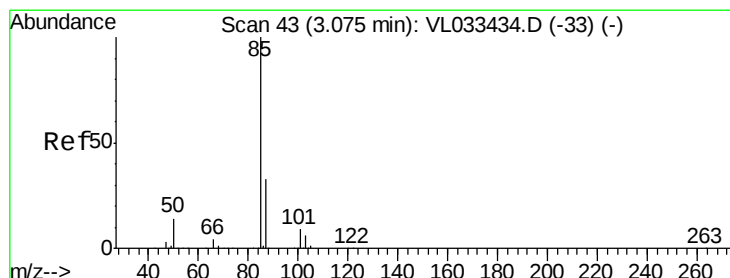
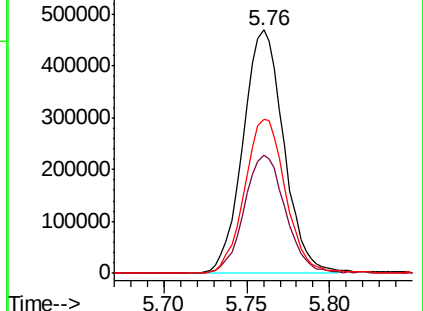
130 64.3 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.326 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033577.D

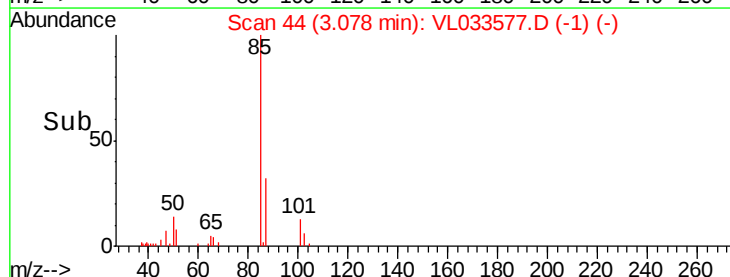
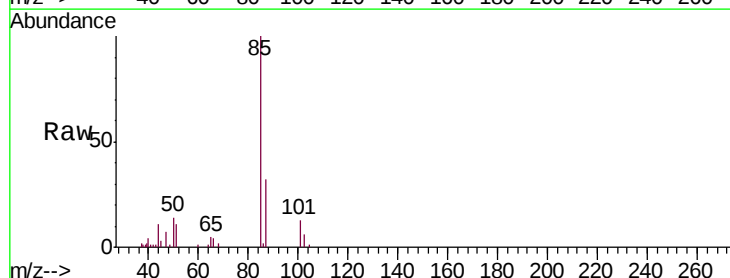
Acq: 10 Apr 2019 23:37

Tgt Ion: 85 Resp: 38167

Ion Ratio Lower Upper

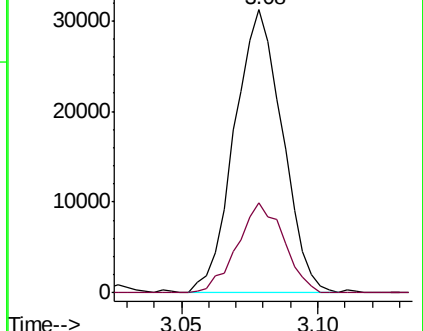
85 100

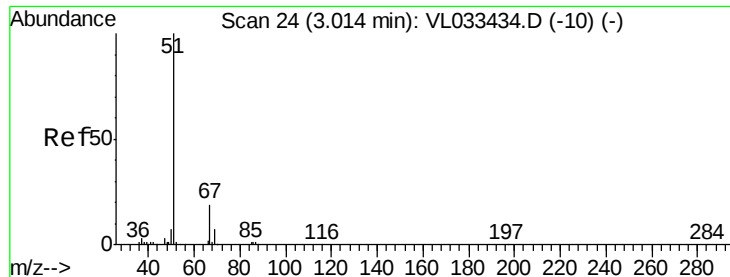
87 31.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

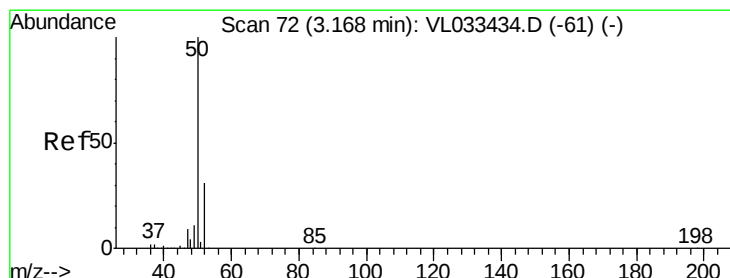
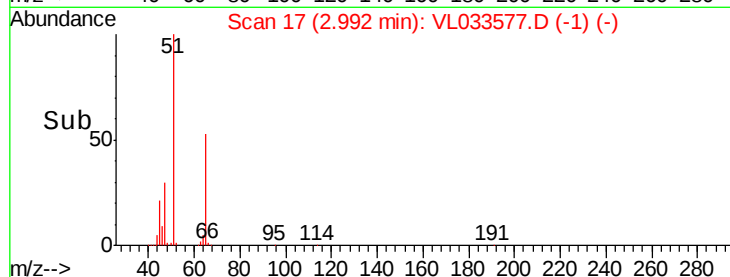
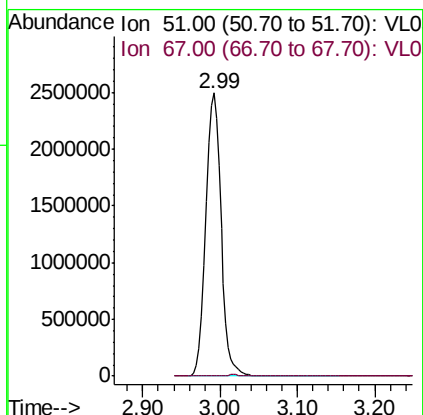
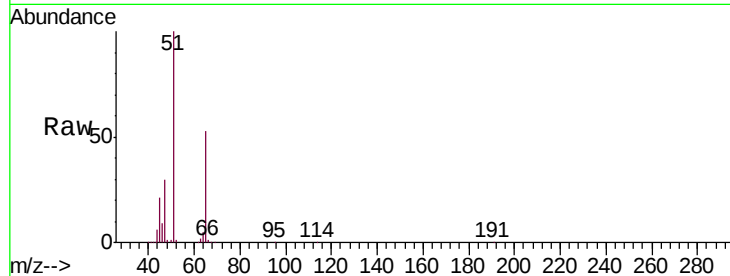




#3
 Chlorodifluoromethane
 Concen: 37.284 ppbv
 RT: 2.99 min Scan# 17
 Delta R.T. -0.02 min
 Lab File: VL033577.D
 Acq: 10 Apr 2019 23:37

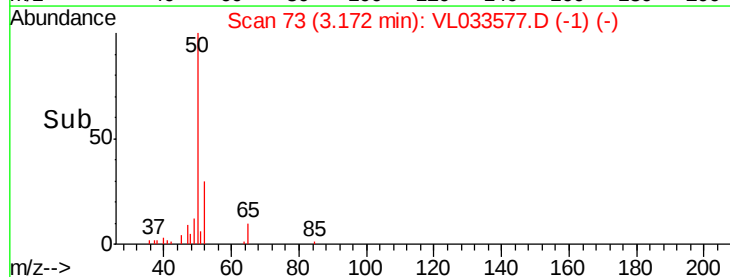
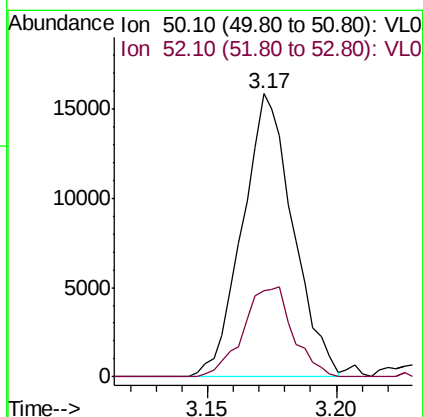
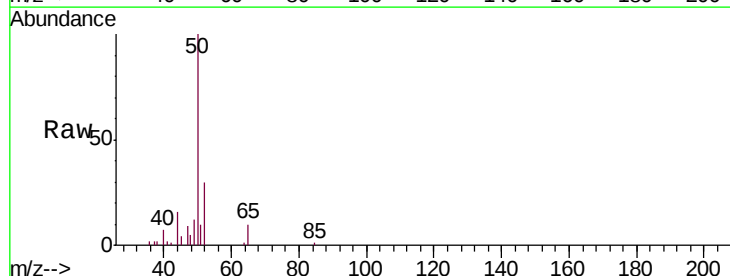
Instrument :
 MSVOA_L
 ClientSampled :
 A-7

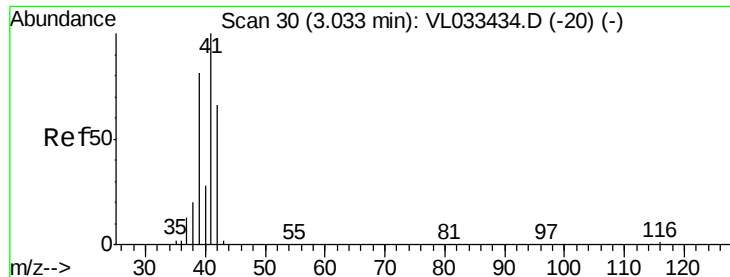
Tgt Ion: 51 Resp: 3442771
 Ion Ratio Lower Upper
 51 100
 67 0.5 15.7 23.5#



#4
 Chloromethane
 Concen: 0.445 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. 0.00 min
 Lab File: VL033577.D
 Acq: 10 Apr 2019 23:37

Tgt Ion: 50 Resp: 21753
 Ion Ratio Lower Upper
 50 100
 52 30.4 25.0 37.6





#9

Propene

Concen: 1.298 ppbv

RT: 3.24 min Scan# 95

Delta R.T. 0.21 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Instrument :

MSVOA_L

ClientSampleId :

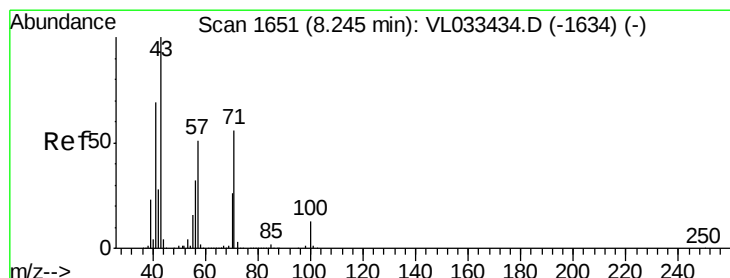
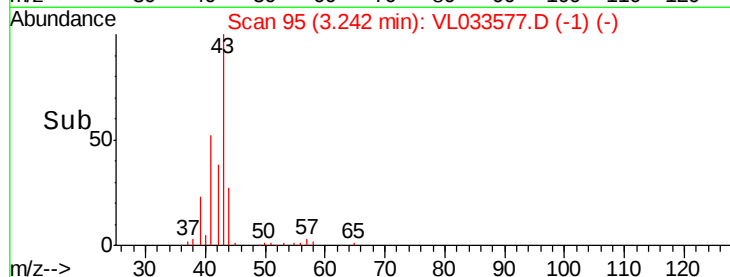
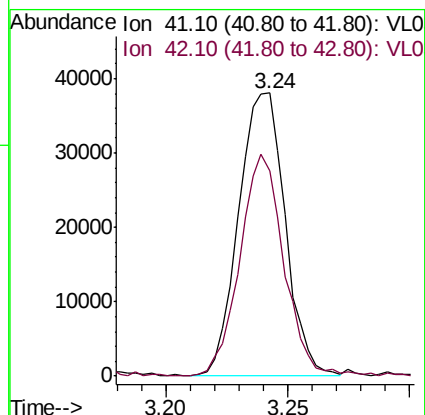
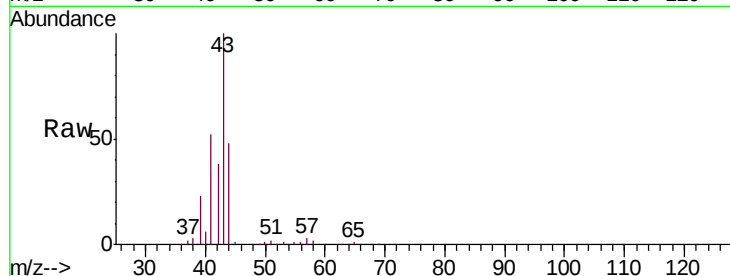
A-7

Tgt Ion: 41 Resp: 50329

Ion Ratio Lower Upper

41 100

42 74.7 53.9 80.9



#10

Heptane

Concen: 0.145 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033577.D

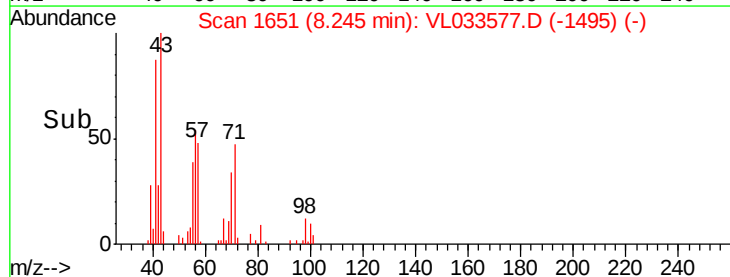
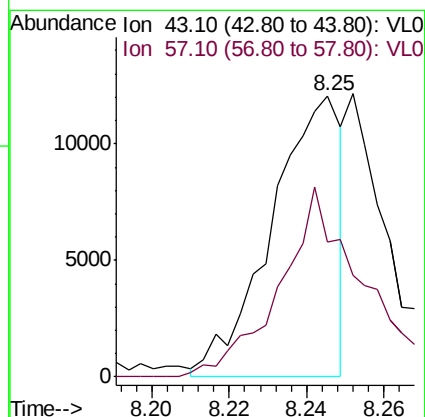
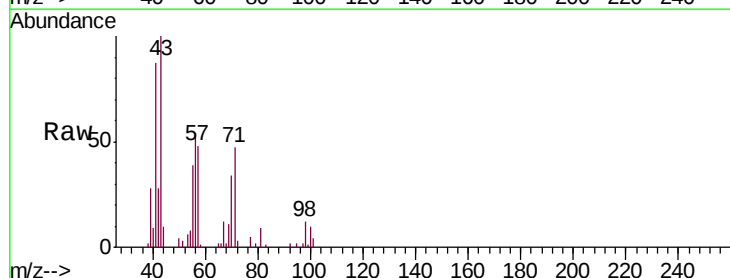
Acq: 10 Apr 2019 23:37

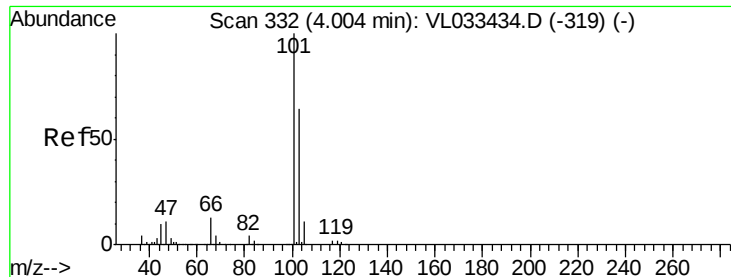
Tgt Ion: 43 Resp: 15075

Ion Ratio Lower Upper

43 100

57 80.6 40.6 60.8#





#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Instrument :

MSVOA_L

ClientSampleId :

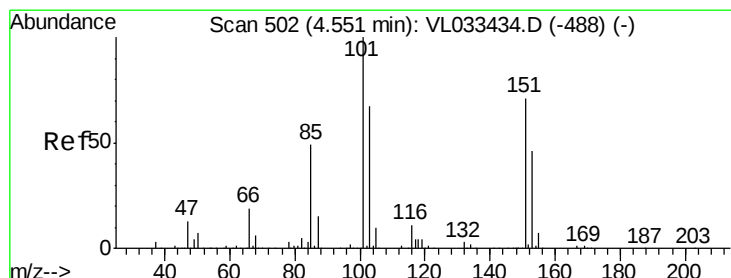
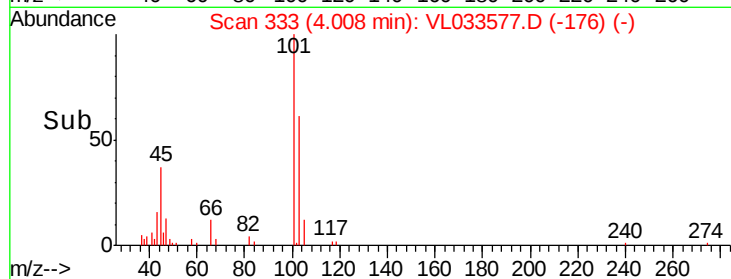
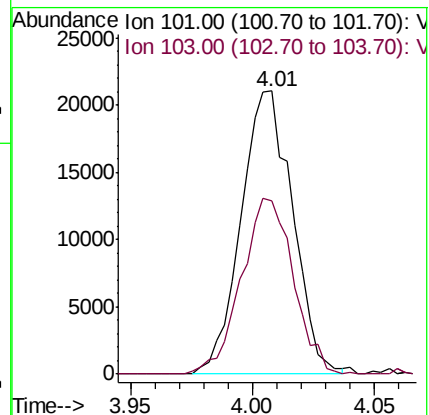
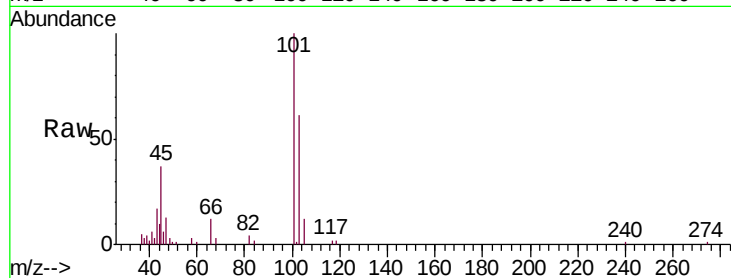
A-7

Tgt Ion:101 Resp: 30804

Ion Ratio Lower Upper

101 100

103 61.0 51.3 76.9



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.040 ppbv

RT: 4.55 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL033577.D

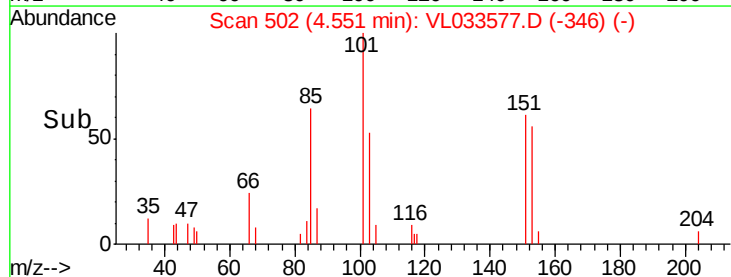
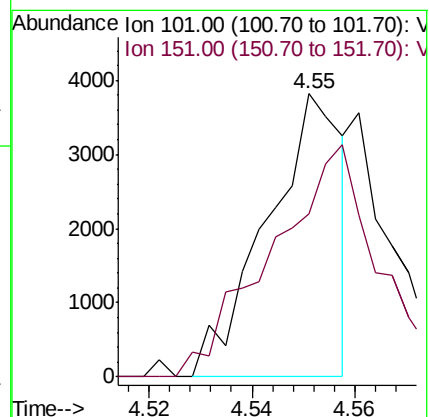
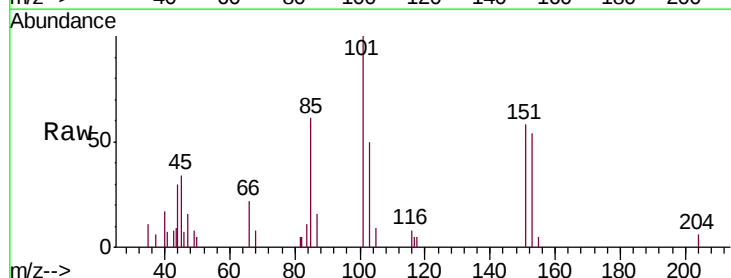
Acq: 10 Apr 2019 23:37

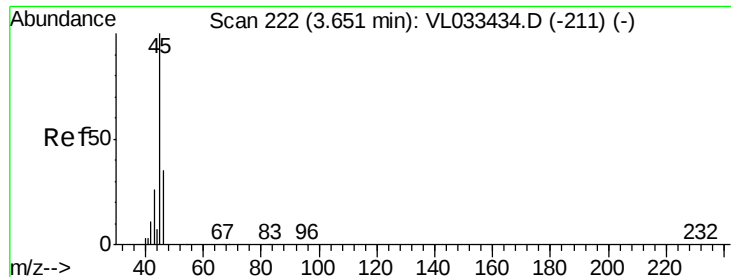
Tgt Ion:101 Resp: 3862

Ion Ratio Lower Upper

101 100

151 0.0 57.7 86.5#





#13

Ethanol

Concen: 94.520 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Instrument :

MSVOA_L

ClientSampleId :

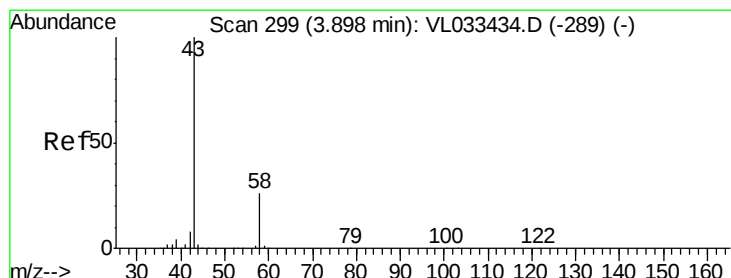
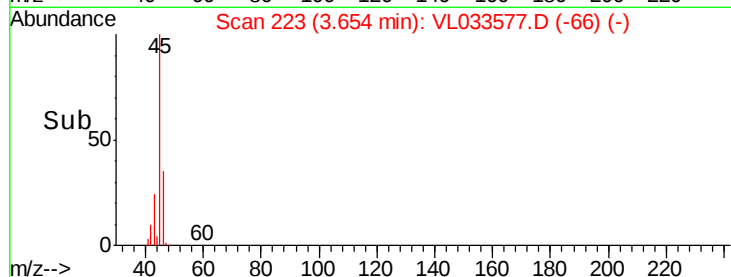
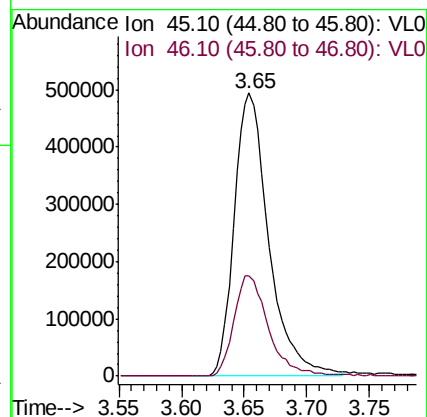
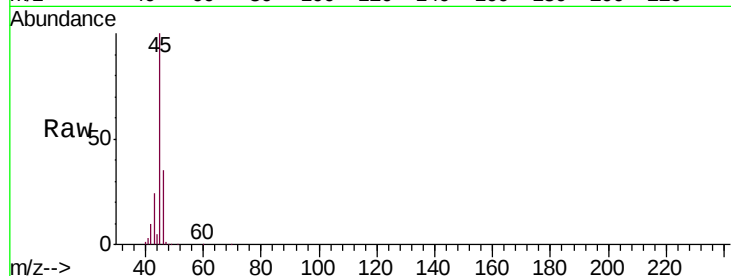
A-7

Tgt Ion: 45 Resp: 948483

Ion Ratio Lower Upper

45 100

46 35.6 25.4 101.8



#15

Acetone

Concen: 5.749 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033577.D

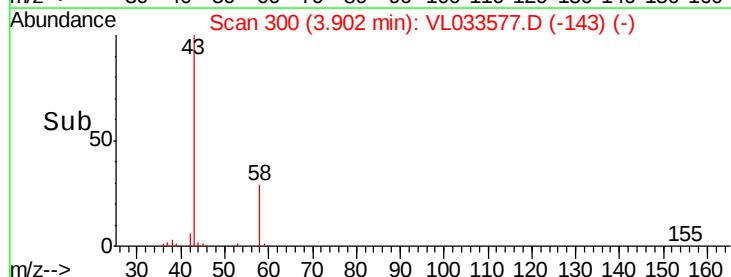
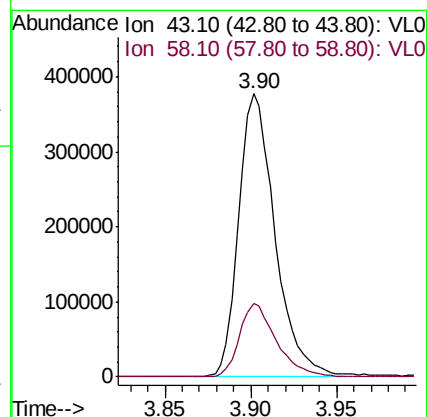
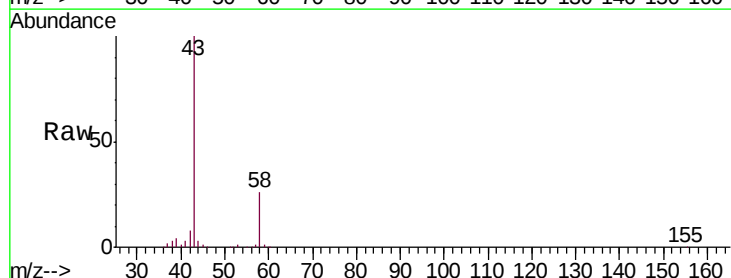
Acq: 10 Apr 2019 23:37

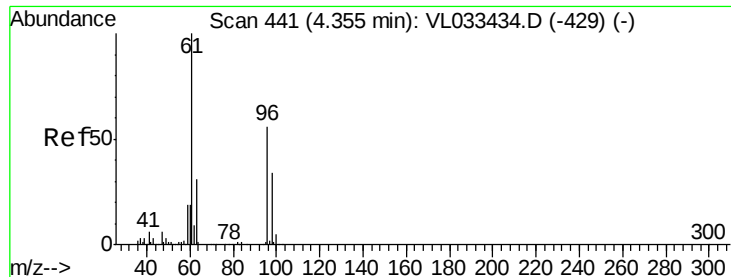
Tgt Ion: 43 Resp: 554441

Ion Ratio Lower Upper

43 100

58 26.7 20.5 30.7



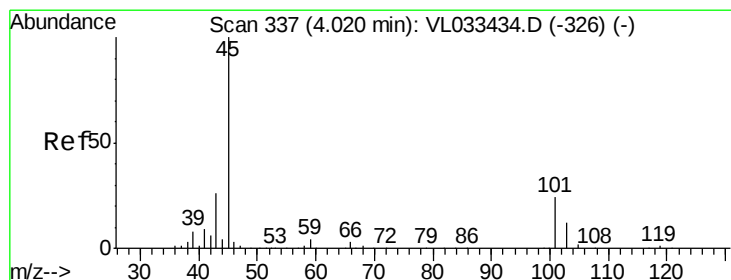
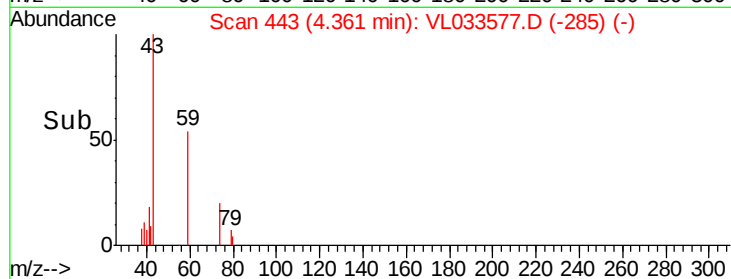
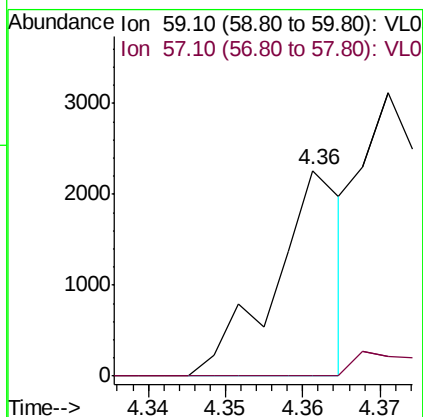
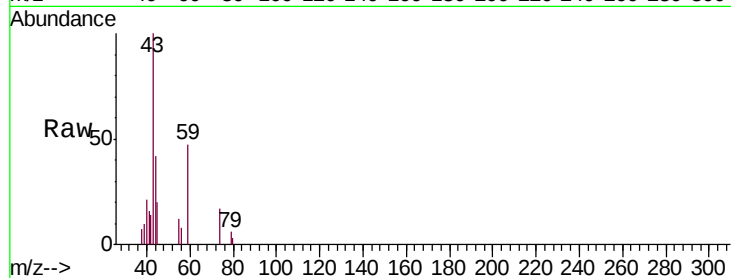


#17

tert-Butyl alcohol
Concen: 0.078 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.01 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Instrument :
MSVOA_L
ClientSampled :
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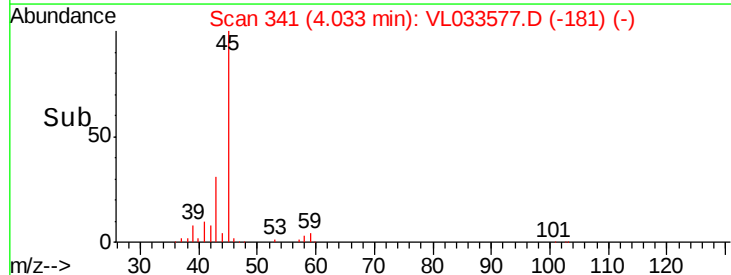
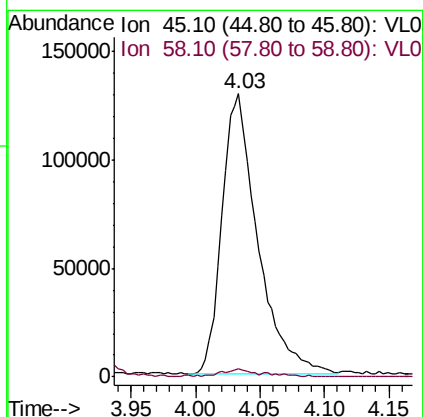
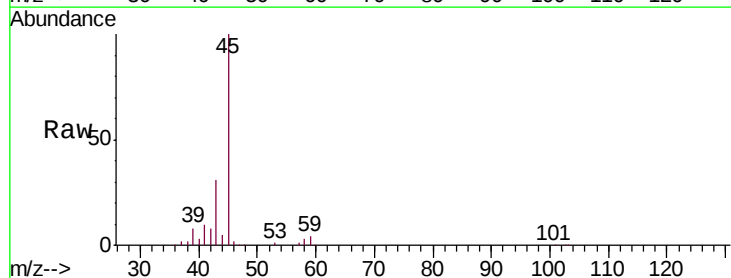
Tgt Ion: 59 Resp: 1385
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

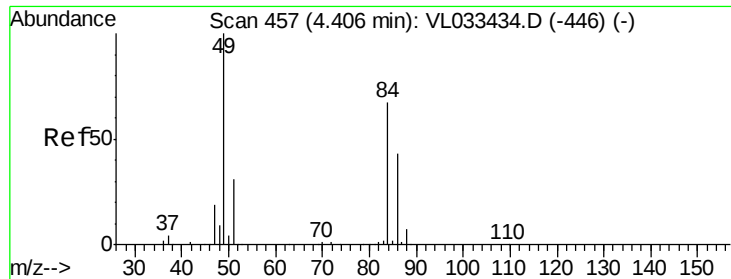


#19

Isopropyl Alcohol
Concen: 4.102 ppbv
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Tgt Ion: 45 Resp: 250202
Ion Ratio Lower Upper
45 100
58 2.2 1.4 2.2#

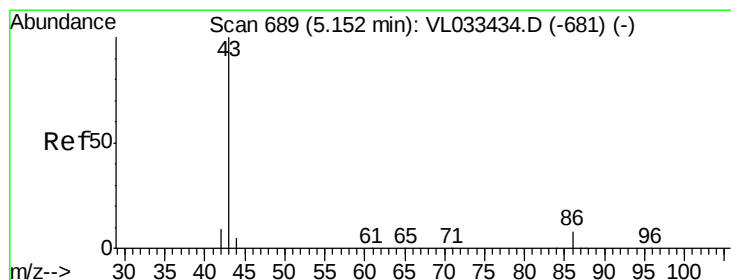
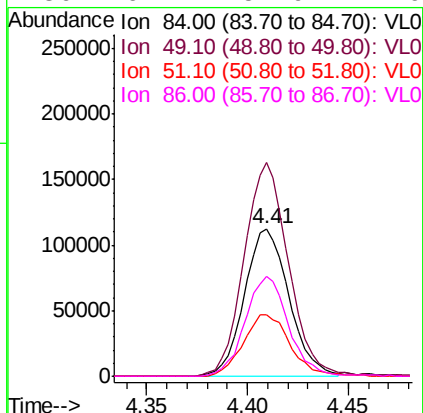
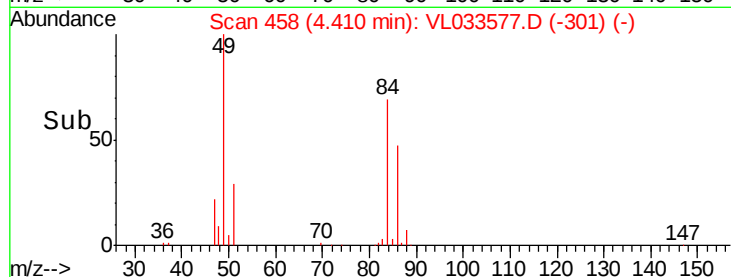
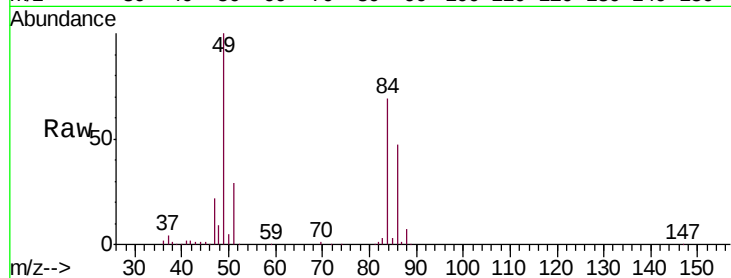




#20
Methylene Chloride
Concen: 4.245 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

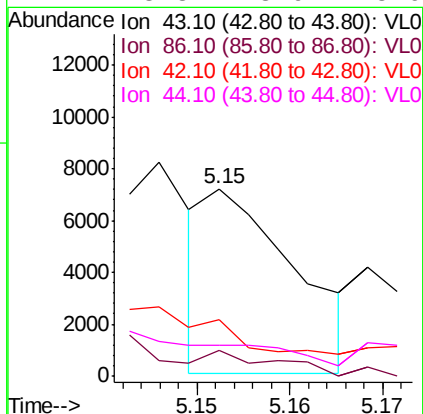
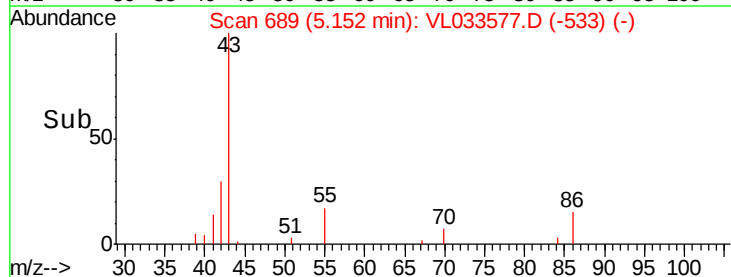
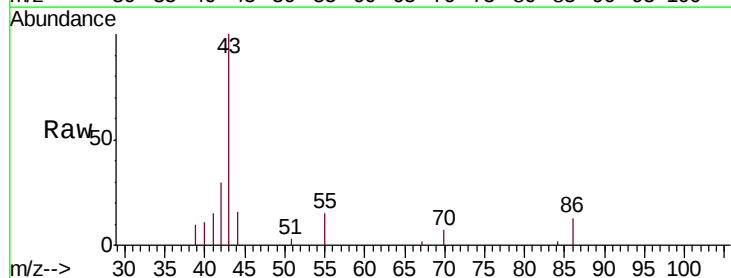
Instrument :
MSVOA_L
ClientSampled :
A-7

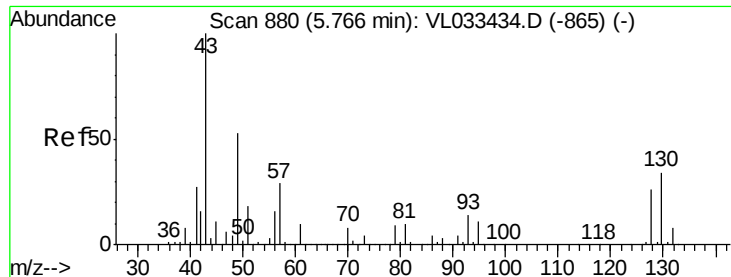
Tgt Ion: 84 Resp: 173768
Ion Ratio Lower Upper
84 100
49 144.9 120.0 180.0
51 42.0 36.7 55.1
86 67.7 51.9 77.9



#23
Vinyl Acetate
Concen: 0.035 ppbv
RT: 5.15 min Scan# 689
Delta R.T. 0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Tgt Ion: 43 Resp: 4752
Ion Ratio Lower Upper
43 100
86 24.3 5.6 8.4#
42 33.3 8.0 12.0#
44 18.8 3.9 5.9#





#25

Ethyl Acetate

Concen: 2.651 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion: 43 Resp: 474378

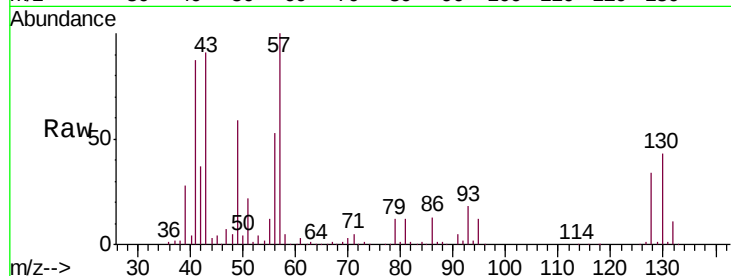
Ion Ratio Lower Upper

43 100

45 5.2 7.8 11.6#

61 4.2 7.3 10.9#

70 4.3 5.6 8.4#

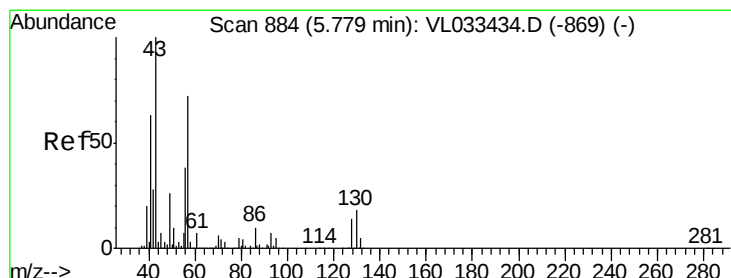
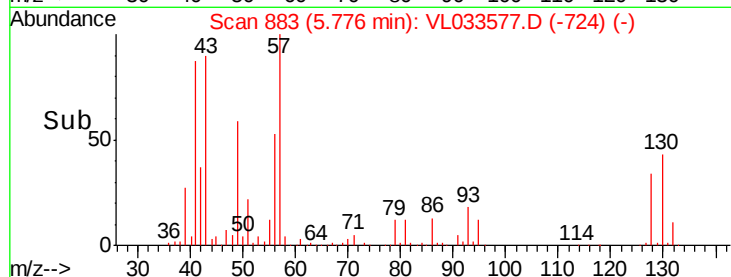
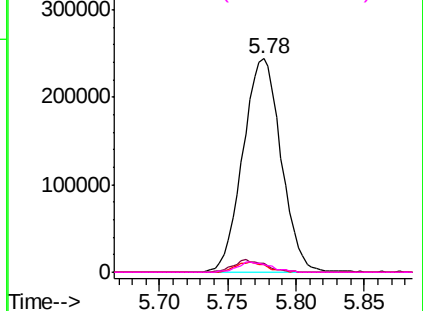


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 5.721 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Tgt Ion: 57 Resp: 455123

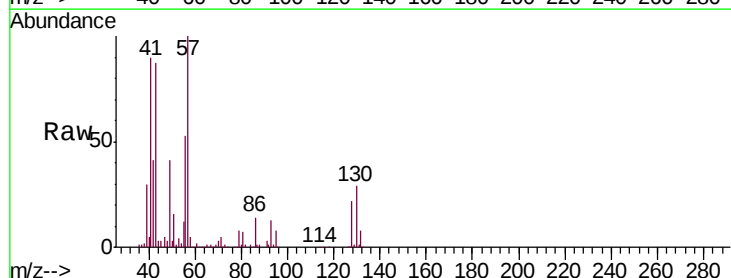
Ion Ratio Lower Upper

57 100

41 91.2 70.7 106.1

43 104.6 182.6 274.0#

56 54.3 42.0 63.0

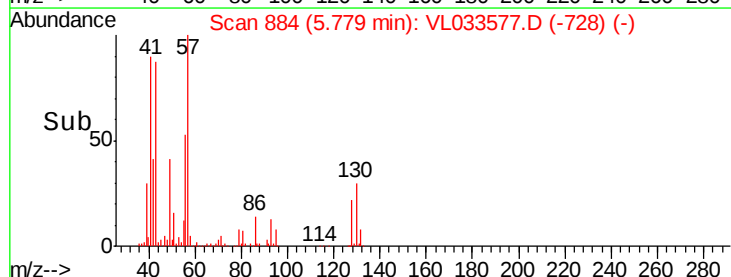
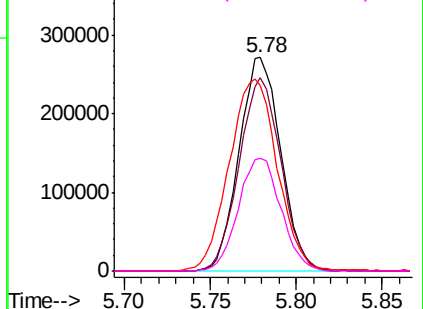


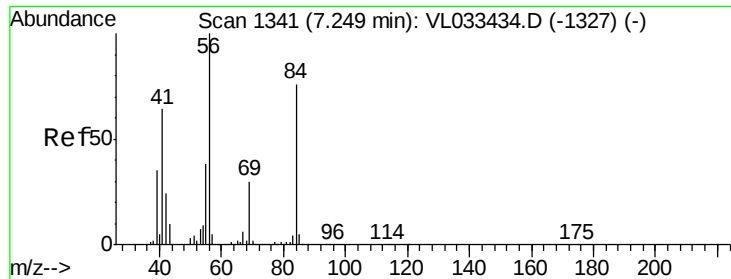
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

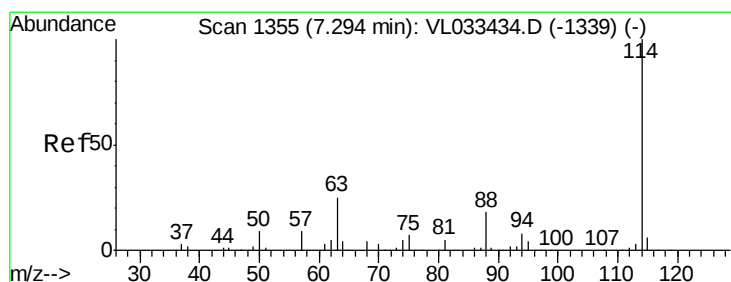
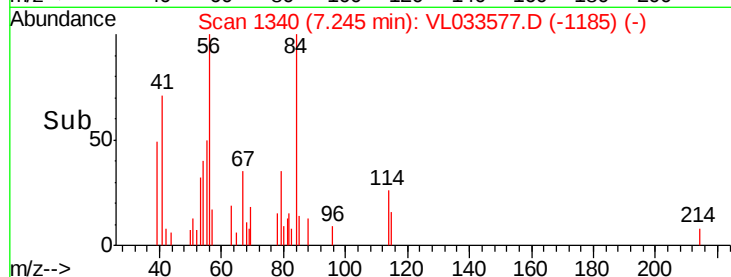
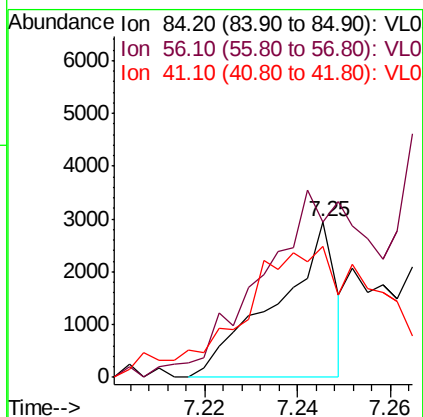
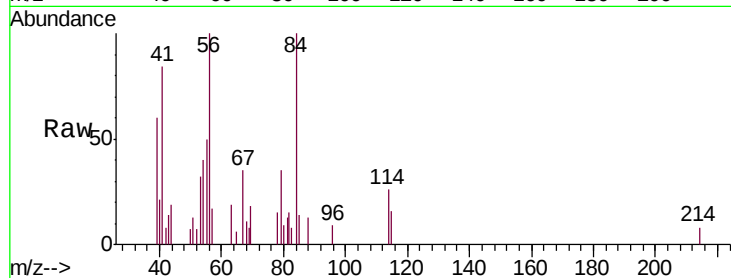




#30
Cyclohexane
Concen: 0.041 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

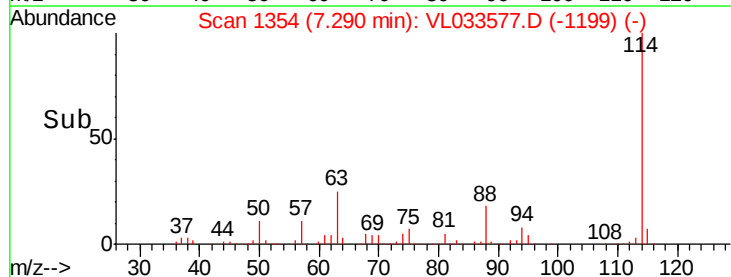
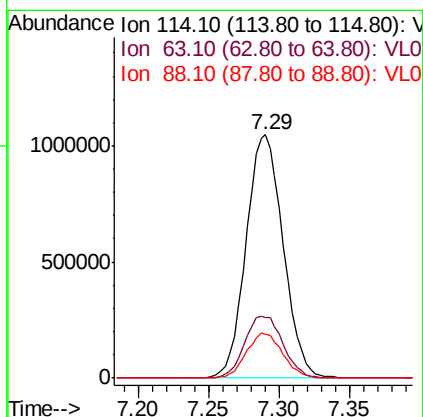
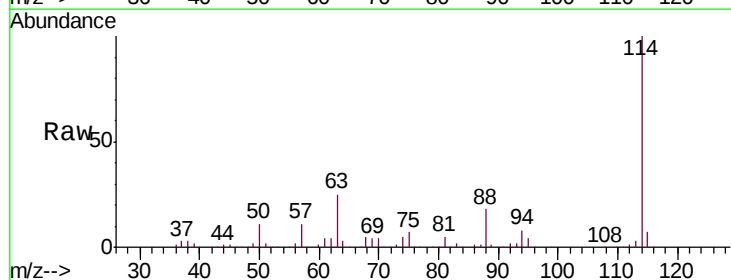
Instrument :
MSVOA_L
ClientSampleId :
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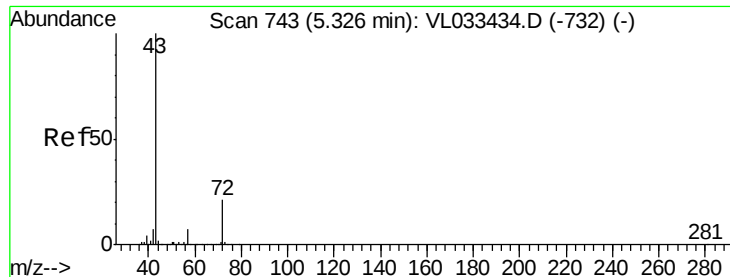
Tgt Ion: 84 Resp: 2611
Ion Ratio Lower Upper
84 100
56 0.0 109.7 164.5#
41 219.2 68.2 102.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Tgt Ion: 114 Resp: 1927259
Ion Ratio Lower Upper
114 100
63 26.5 21.5 32.3
88 18.3 14.5 21.7

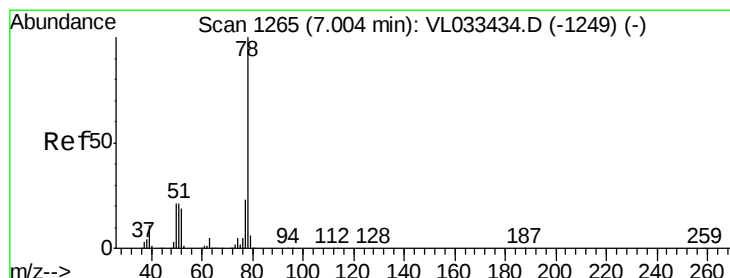
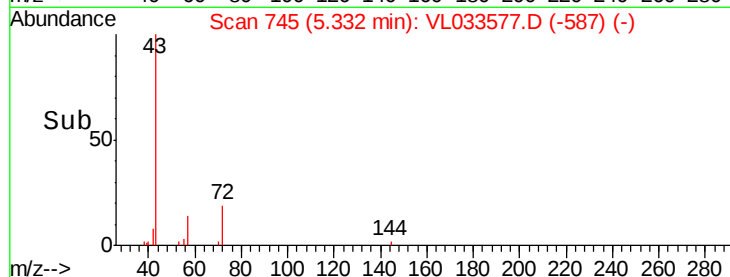
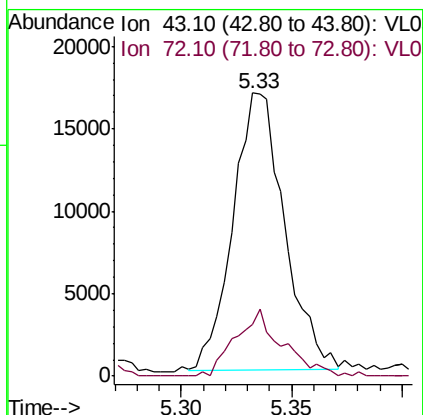
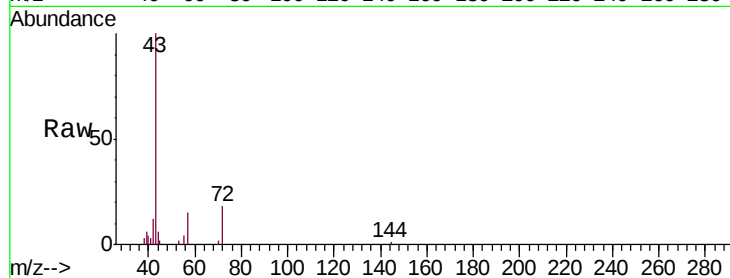




#34
2-Butanone
Concen: 0.236 ppbv
RT: 5.33 min Scan# 745
Delta R.T. 0.01 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

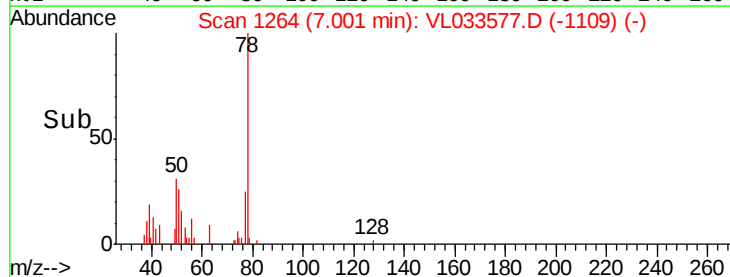
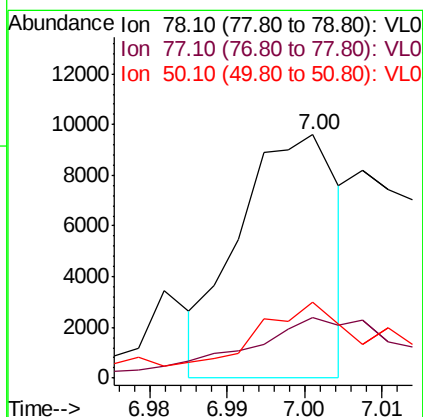
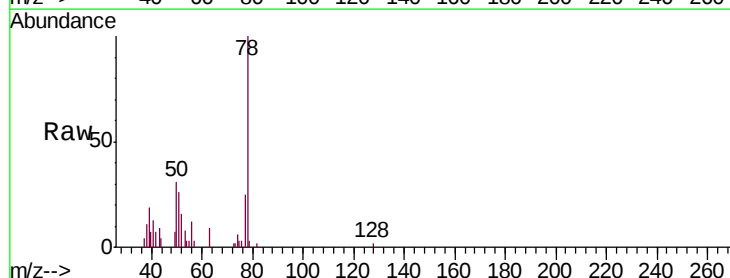
Instrument :
MSVOA_L
ClientSampleId :
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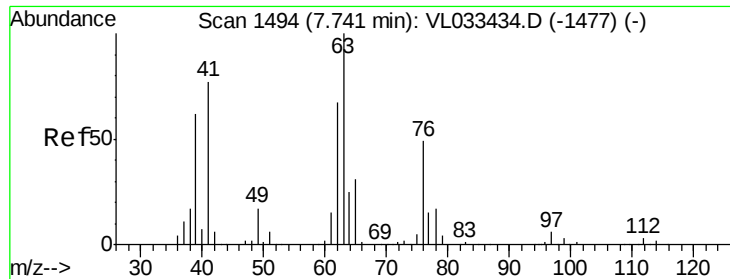
Tgt Ion: 43 Resp: 27294
Ion Ratio Lower Upper
43 100
72 21.9 17.4 26.2



#36
Benzene
Concen: 0.053 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033577.D
Acq: 10 Apr 2019 23:37

Tgt Ion: 78 Resp: 8532
Ion Ratio Lower Upper
78 100
77 24.6 18.1 27.1
50 33.8 16.7 25.1#

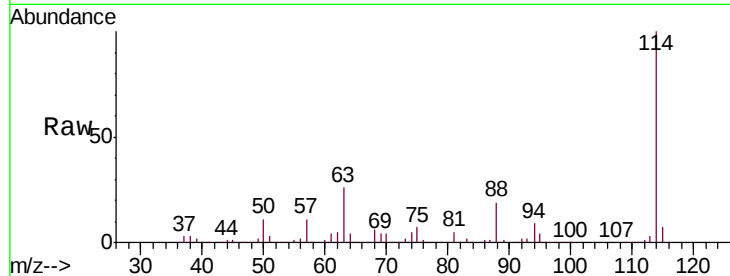




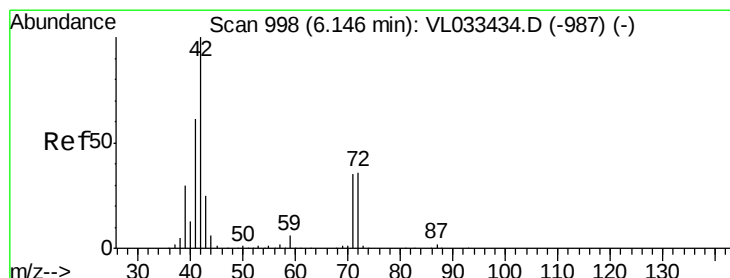
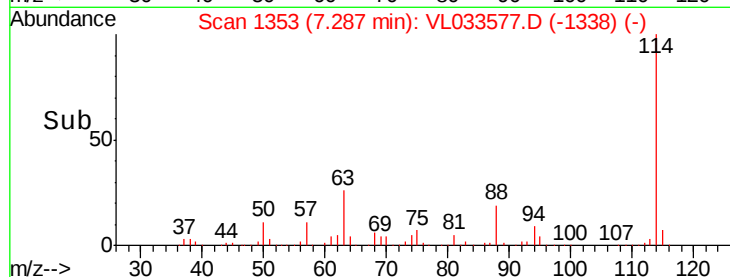
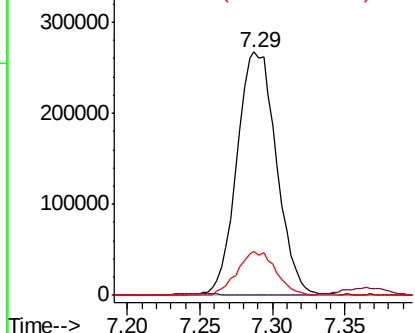
#39
 1,2-Dichloropropane
 Concen: 8.005 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033577.D
 Acq: 10 Apr 2019 23:37

Instrument :
 MSVOA_L
 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.2	91.8#
62	17.9	54.0	81.0#

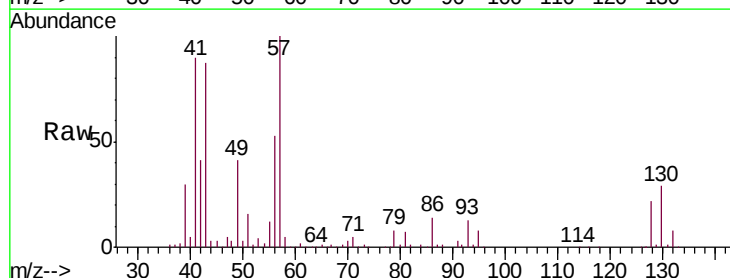


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

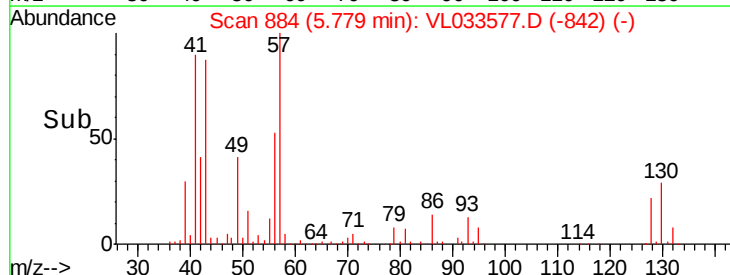
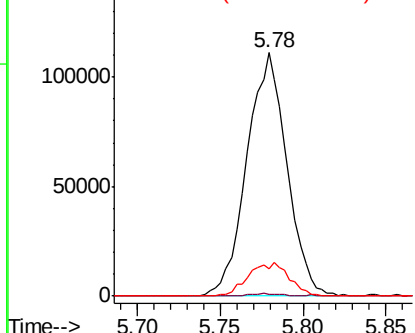


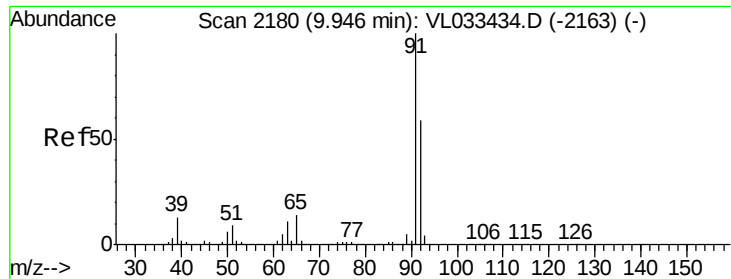
#41
 Tetrahydrofuran
 Concen: 2.934 ppbv
 RT: 5.78 min Scan# 884
 Delta R.T. -0.37 min
 Lab File: VL033577.D
 Acq: 10 Apr 2019 23:37

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.8	30.2	45.2#
71	13.9	29.4	44.2#



Abundance Ion 42.10 (41.80 to 42.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0
 Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 2.290 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Instrument :

MSVOA_L

ClientSampleId :

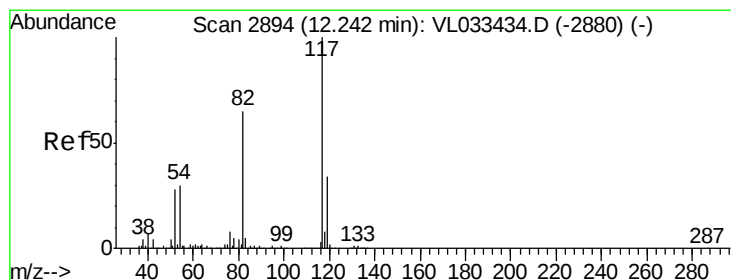
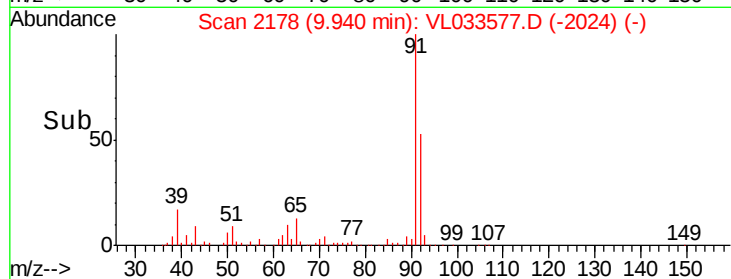
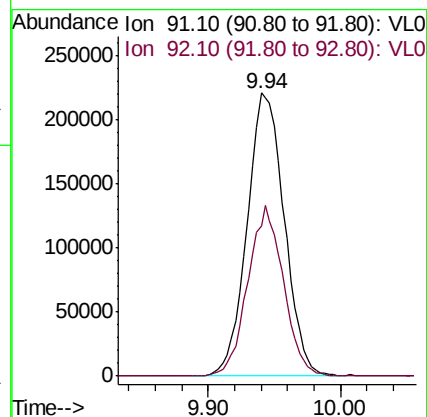
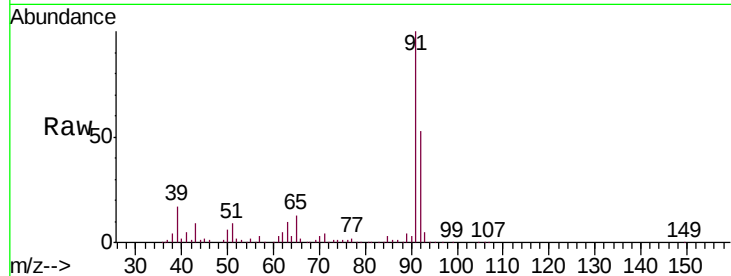
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Tgt Ion: 91 Resp: 430398

Ion Ratio Lower Upper

91 100

92 57.7 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

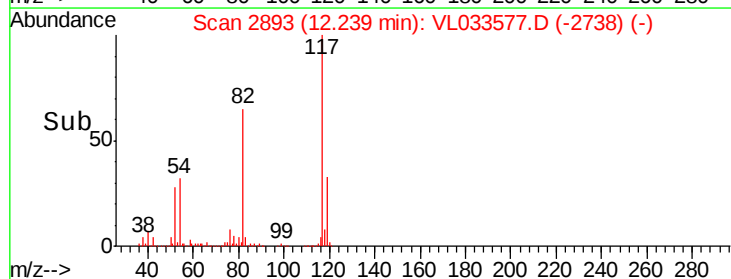
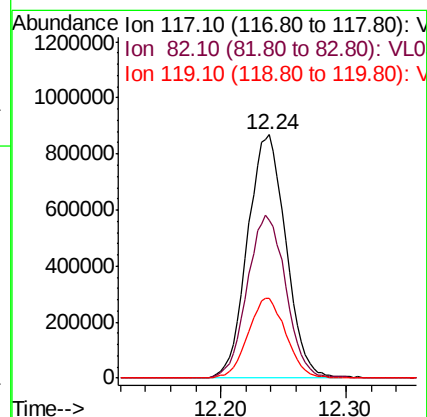
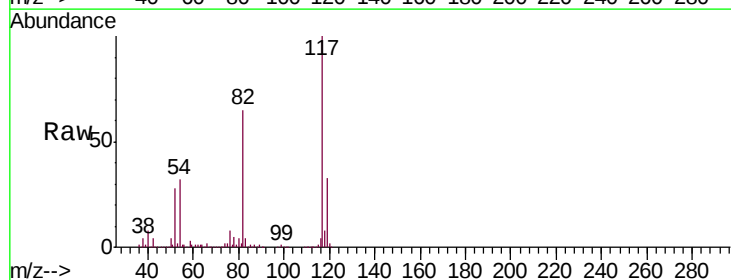
Tgt Ion: 117 Resp: 1848301

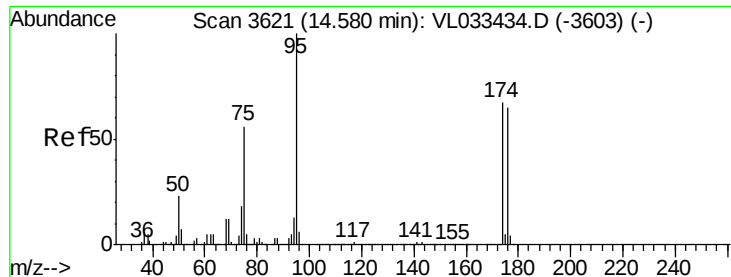
Ion Ratio Lower Upper

117 100

82 67.6 51.5 77.3

119 32.7 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.246 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033577.D

Acq: 10 Apr 2019 23:37

Instrument :

MSVOA_L

ClientSampleId :

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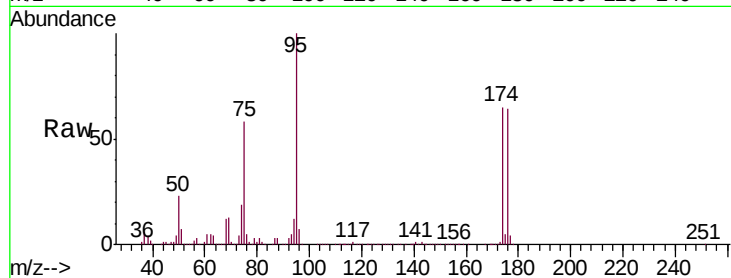
Tgt Ion: 95 Resp: 1484605

Ion Ratio Lower Upper

95 100

174 67.0 52.9 79.3

175 4.9 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

