

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
 Data File : VL032450.D
 Acq On : 31 Aug 2018 21:37
 Operator : SY/AP
 Sample : J4717-04DL 20X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03DL

Quant Time: Sep 01 02:03:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018
 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	1556842	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.33	114	3316456	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.29	117	3163724	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2400144	10.22	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

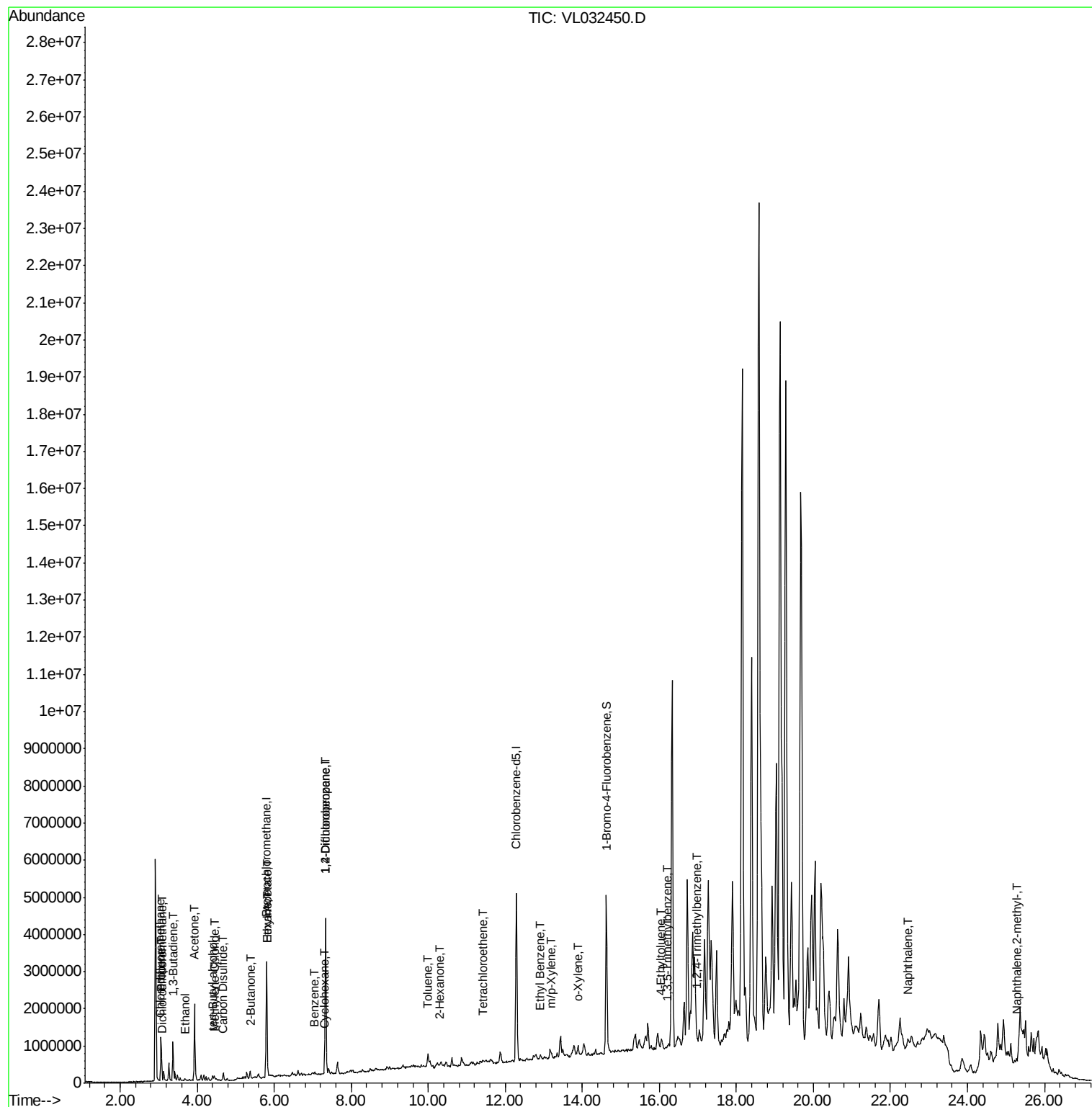
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	6678	0.034	ppbv	91
3) Chlorodifluoromethane	3.04	51	4812	0.034	ppbv #	51
9) Propene	3.06	41	523973	9.217	ppbv	91
13) Ethanol	3.68	45	63870	3.604	ppbv	97
15) Acetone	3.93	43	2099223	14.973	ppbv	97
16) 1,3-Butadiene	3.37	39	287262	4.354	ppbv #	13
17) tert-Butyl alcohol	4.40	59	81215	3.764	ppbv #	100
20) Methylene Chloride	4.45	84	35486	0.664	ppbv #	94
25) Ethyl Acetate	5.82	43	74887	0.226	ppbv #	82
26) Hexane	5.82	57	106130	0.716	ppbv #	48
27) Carbon Disulfide	4.65	76	24206	0.177	ppbv #	71
30) Cyclohexane	7.28	84	3510	0.032	ppbv #	1
34) 2-Butanone	5.37	43	227385	1.032	ppbv	96
36) Benzene	7.04	78	53493	0.190	ppbv	94
39) 1,2-Dichloropropane	7.33	63	828818	6.864	ppbv #	24
51) 2-Hexanone	10.29	43	7128	0.033	ppbv #	28
52) Tetrachloroethene	11.42	164	8669	0.099	ppbv #	75
53) Toluene	9.99	91	251310	0.852	ppbv	97
58) Ethyl Benzene	12.91	91	79659	0.210	ppbv	95
59) m/p-Xylene	13.21	91	30392	0.090	ppbv #	31
60) o-Xylene	13.90	91	80298	0.242	ppbv	97
72) 4-Ethyltoluene	16.04	105	18693	0.052	ppbv #	31
73) 1,3,5-Trimethylbenzene	16.21	105	19230	0.053	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.98	105	101395	0.256	ppbv #	67
79) Naphthalene	22.47	128	21757	0.067	ppbv #	79
80) Naphthalene,2-methyl-	25.27	142	20114	0.234	ppbv	92

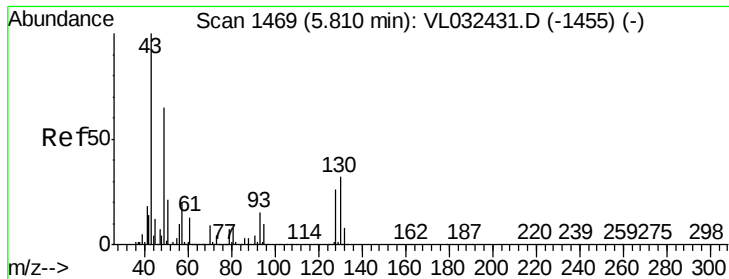
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 1466

Delta R.T. -0.01 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

Instrument :

MSVOA_L

ClientSampleId :

VP-03DL

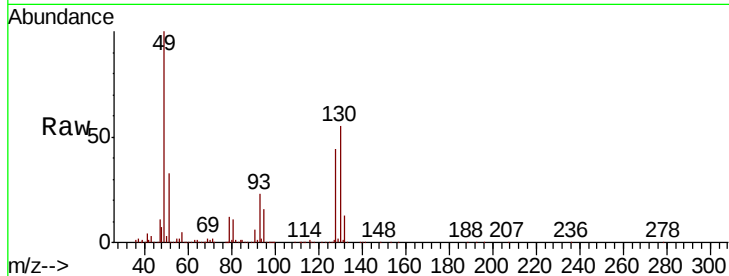
Tgt Ion: 49 Resp: 1556842

Ion Ratio Lower Upper

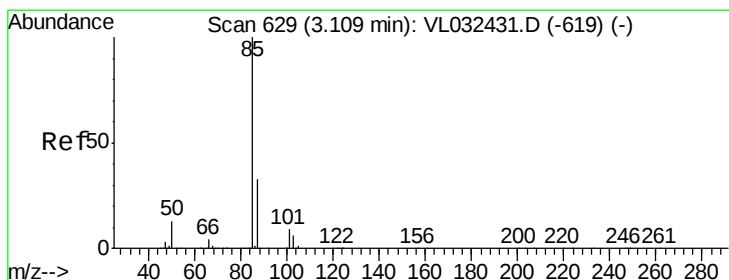
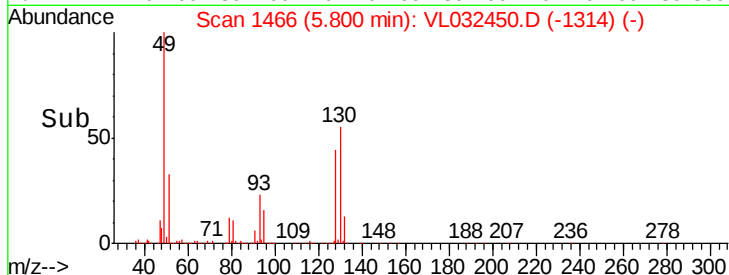
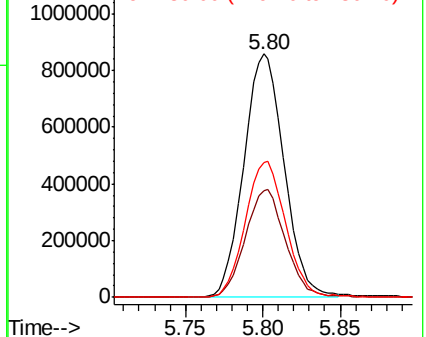
49 100

128 44.7 20.7 62.1

130 56.7 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.034 ppbv

RT: 3.10 min Scan# 627

Delta R.T. -0.01 min

Lab File: VL032450.D

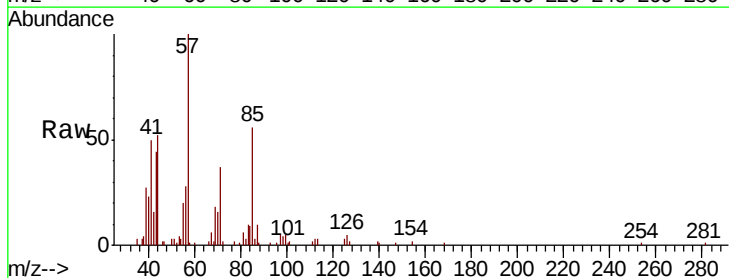
Acq: 31 Aug 2018 21:37

Tgt Ion: 85 Resp: 6678

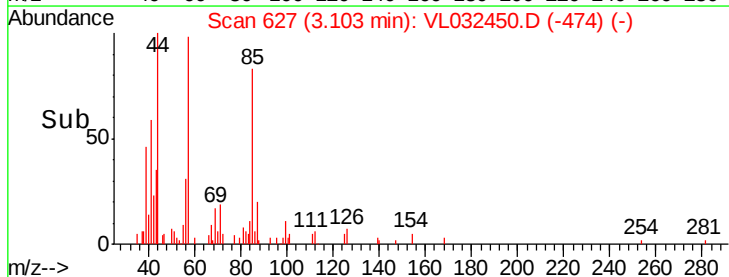
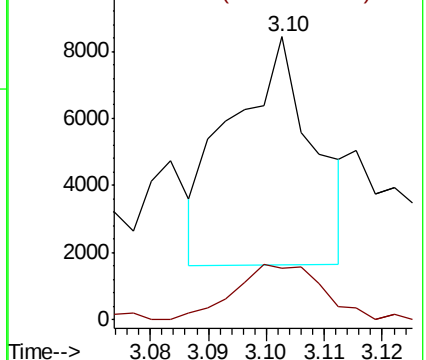
Ion Ratio Lower Upper

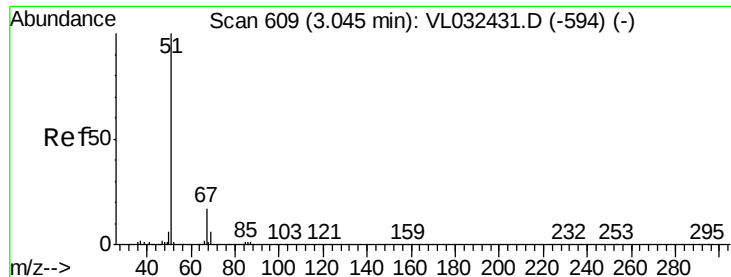
85 100

87 27.7 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.034 ppbv

RT: 3.04 min Scan# 608

Delta R.T. -0.00 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

Instrument :

MSVOA_L

ClientSampleId :

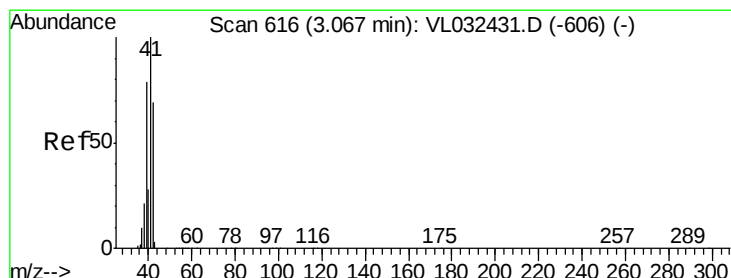
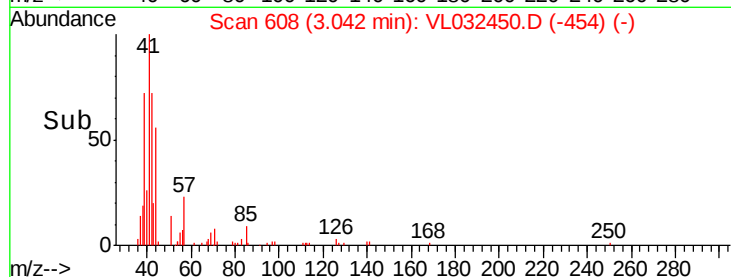
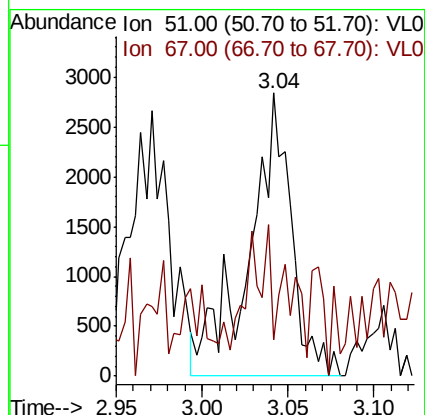
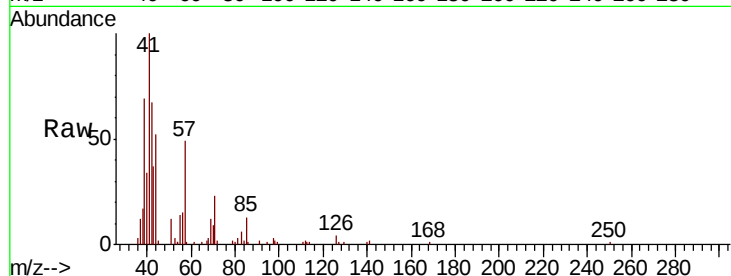
VP-03DL

Tgt Ion: 51 Resp: 4812

Ion Ratio Lower Upper

51 100

67 38.7 13.8 20.8#



#9

Propene

Concen: 9.217 ppbv

RT: 3.06 min Scan# 614

Delta R.T. -0.01 min

Lab File: VL032450.D

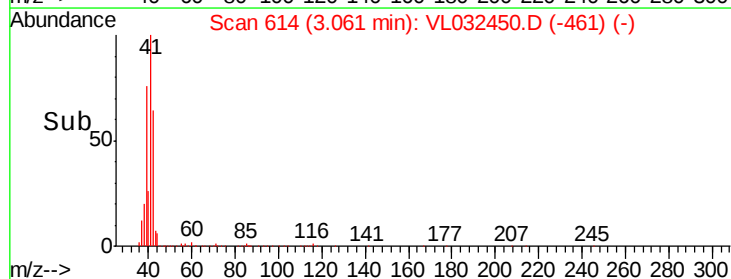
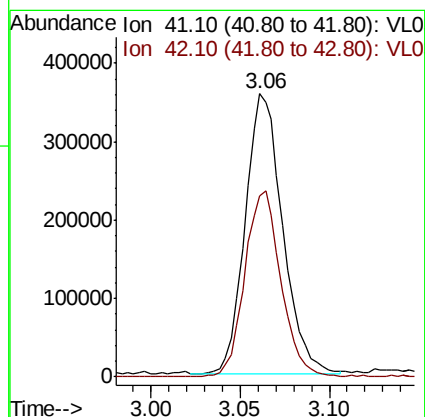
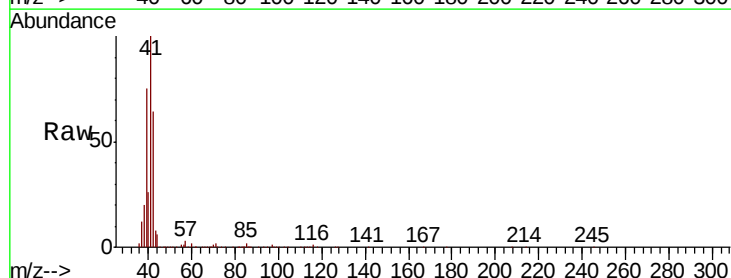
Acq: 31 Aug 2018 21:37

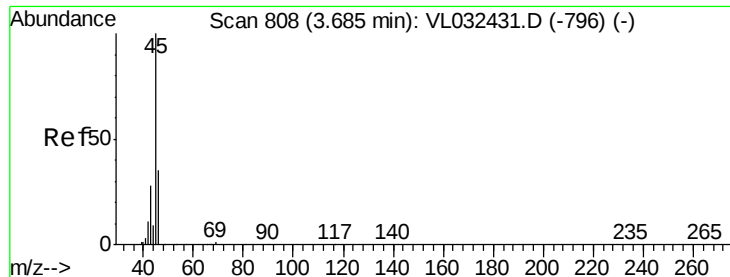
Tgt Ion: 41 Resp: 523973

Ion Ratio Lower Upper

41 100

42 63.5 56.6 84.8





#13

Ethanol

Concen: 3.604 ppbv

RT: 3.68 min Scan# 808

Delta R.T. -0.00 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

Instrument :

MSVOA_L

ClientSampleId :

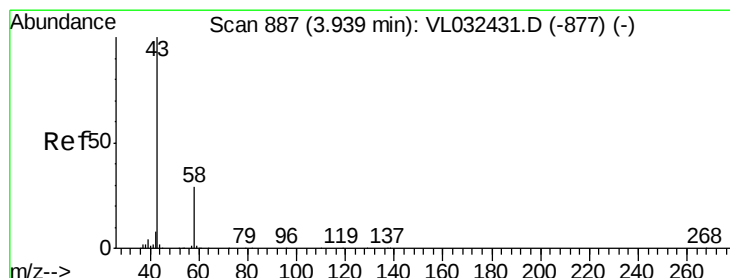
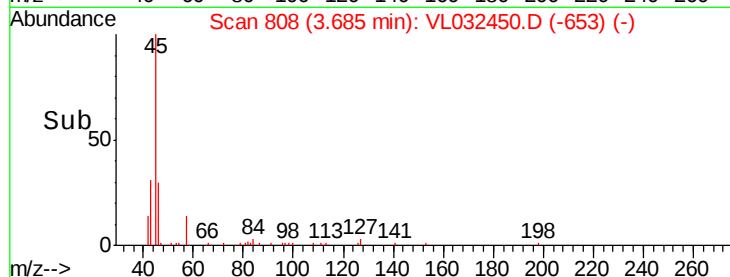
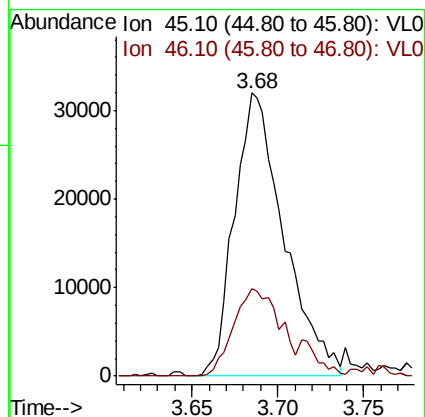
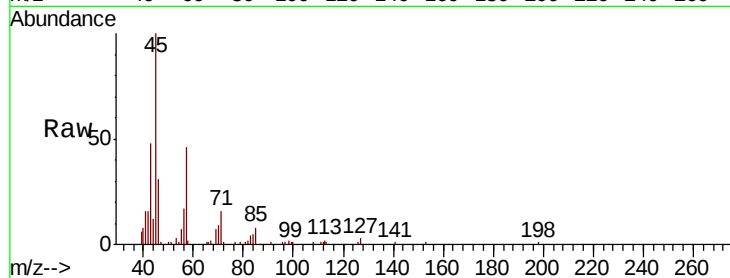
VP-03DL

Tgt Ion: 45 Resp: 63870

Ion Ratio Lower Upper

45 100

46 33.7 14.2 56.8



#15

Acetone

Concen: 14.973 ppbv

RT: 3.93 min Scan# 884

Delta R.T. -0.01 min

Lab File: VL032450.D

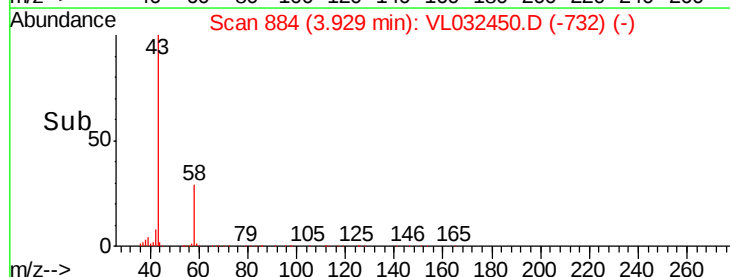
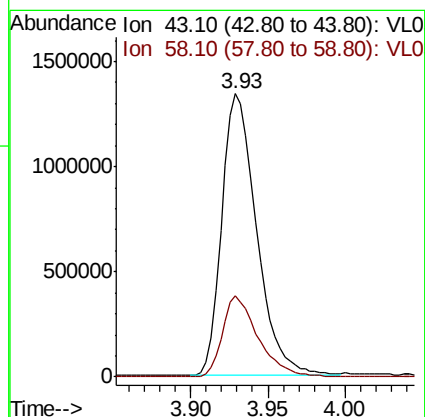
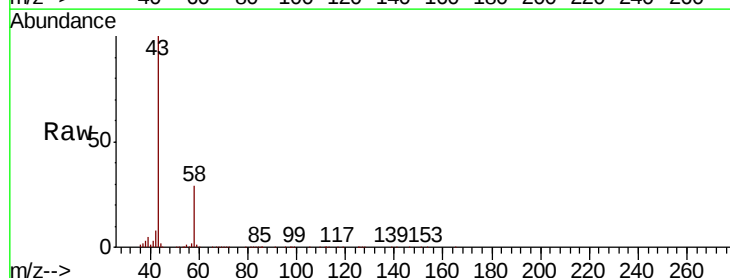
Acq: 31 Aug 2018 21:37

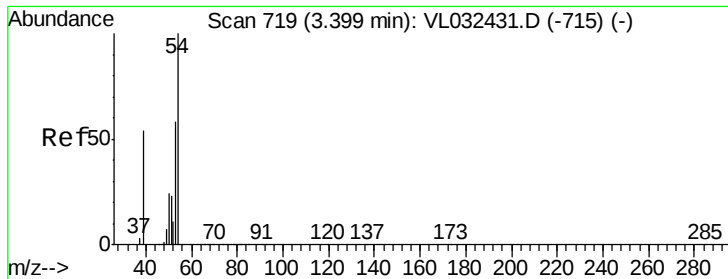
Tgt Ion: 43 Resp: 2099223

Ion Ratio Lower Upper

43 100

58 29.6 22.6 33.8

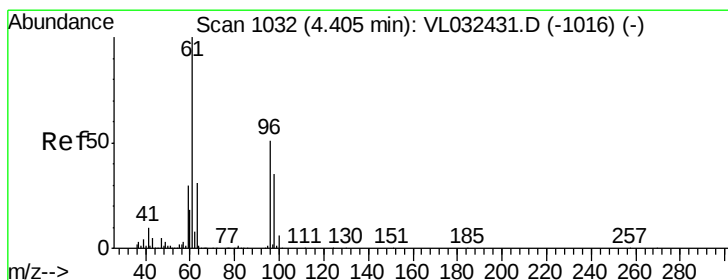
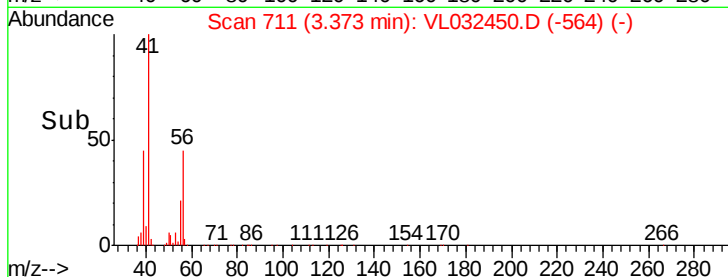
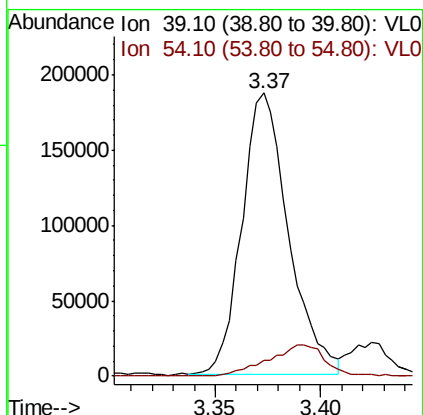
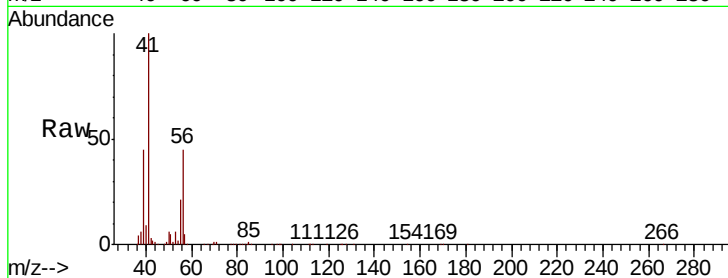




#16
1,3-Butadiene
Concen: 4.354 ppbv
RT: 3.37 min Scan# 711
Delta R.T. -0.03 min
Lab File: VL032450.D
Acq: 31 Aug 2018 21:37

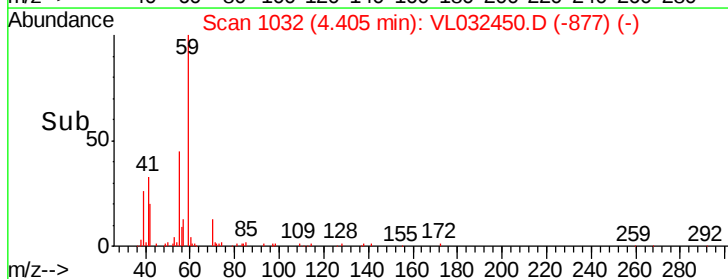
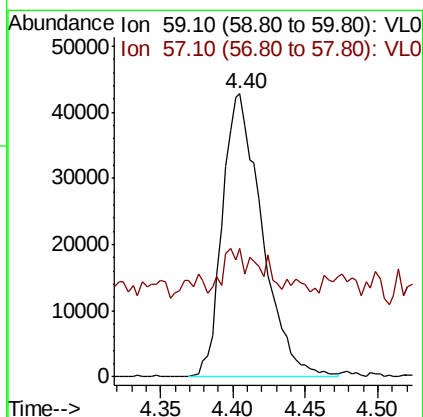
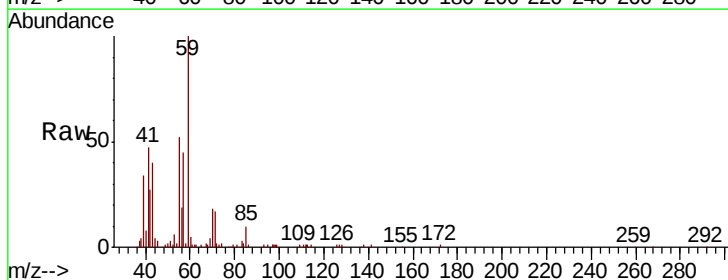
Instrument :
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VP-03DL

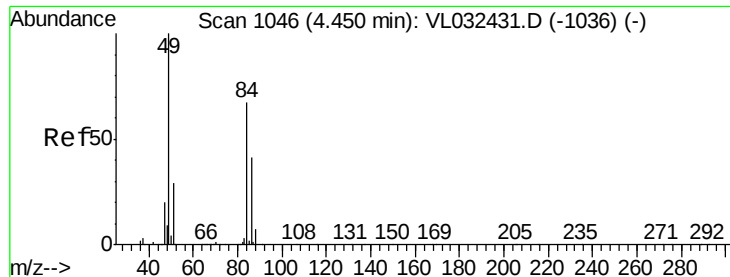
Tgt Ion: 39 Resp: 287262
Ion Ratio Lower Upper
39 100
54 14.0 80.8 121.2#



#17
tert-Butyl alcohol
Concen: 3.764 ppbv
RT: 4.40 min Scan# 1032
Delta R.T. -0.00 min
Lab File: VL032450.D
Acq: 31 Aug 2018 21:37

Tgt Ion: 59 Resp: 81215
Ion Ratio Lower Upper
59 100
57 33.0 0.0 0.0#

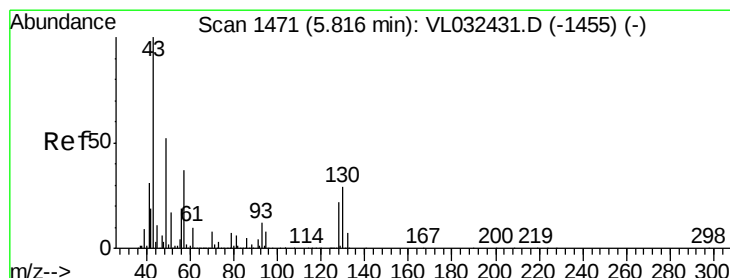
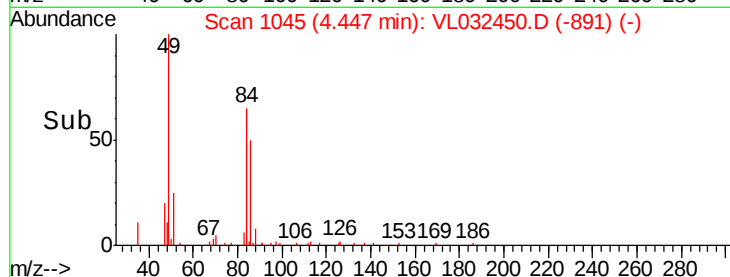
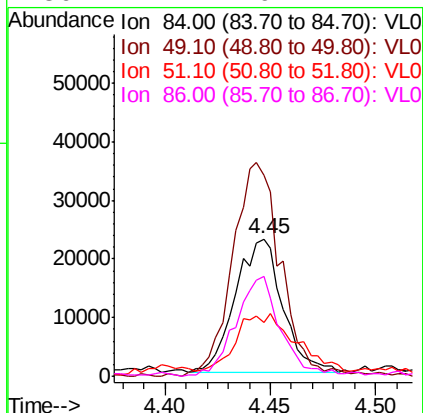
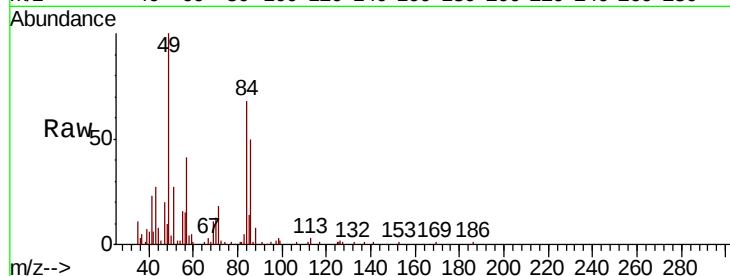




#20
Methylene Chloride
Concen: 0.664 ppbv
RT: 4.45 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VL032450.D
Acq: 31 Aug 2018 21:37

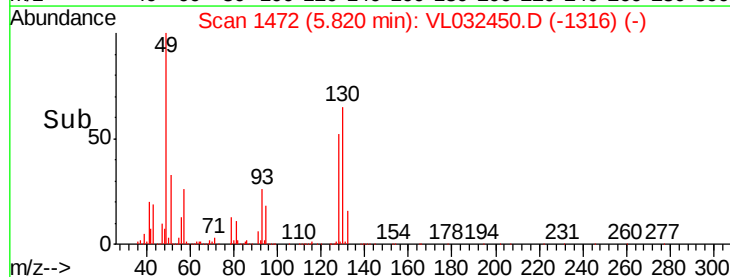
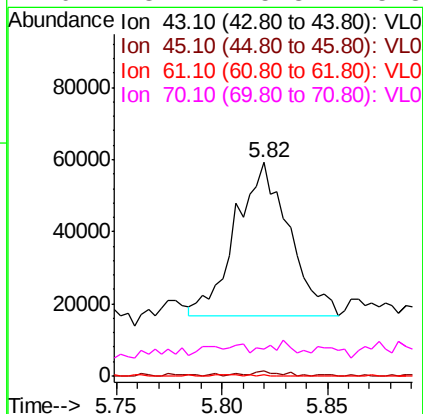
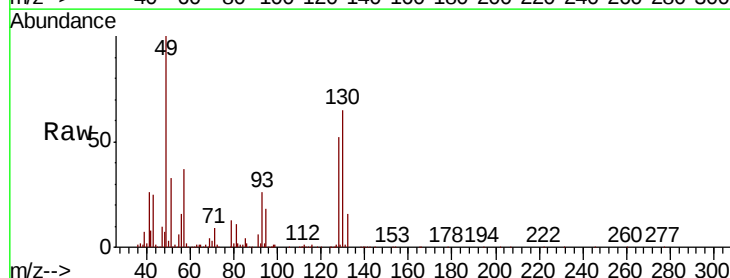
Instrument :
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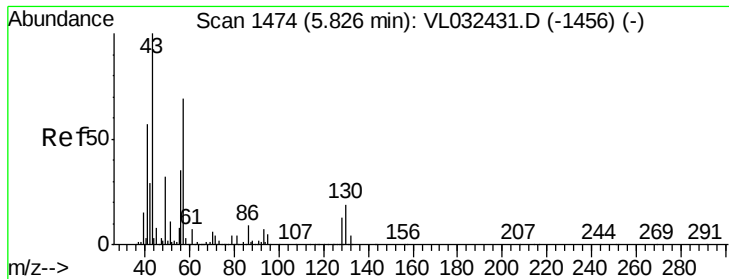
Tgt Ion:	84	Resp:	35486
Ion	Ratio	Lower	Upper
84	100		
49	148.5	119.1	178.7
51	35.2	35.2	52.8
86	74.4	49.4	74.2#



#25
Ethyl Acetate
Concen: 0.226 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VL032450.D
Acq: 31 Aug 2018 21:37

Tgt Ion:	43	Resp:	74887
Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.0	12.0#
61	0.2	7.6	11.4#
70	8.4	5.8	8.8





#26

Hexane

Concen: 0.716 ppbv

RT: 5.82 min Scan# 1472

Delta R.T. -0.01 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

Instrument :

MSVOA_L

ClientSampleId :

VP-03DL

Tgt Ion: 57 Resp: 106130

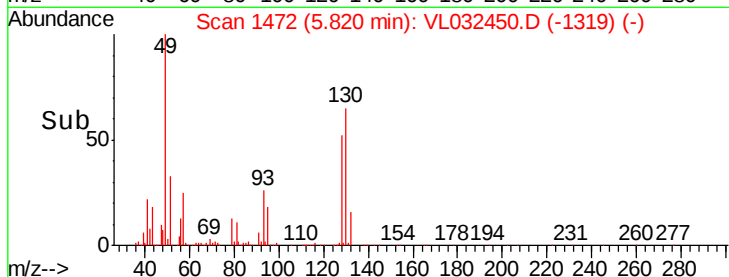
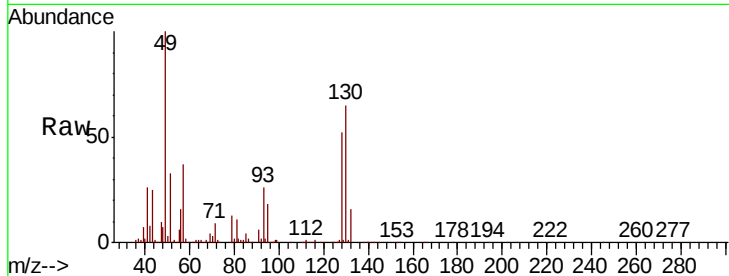
Ion Ratio Lower Upper

57 100

41 96.0 69.0 103.4

43 88.5 172.1 258.1#

56 58.6 42.2 63.2

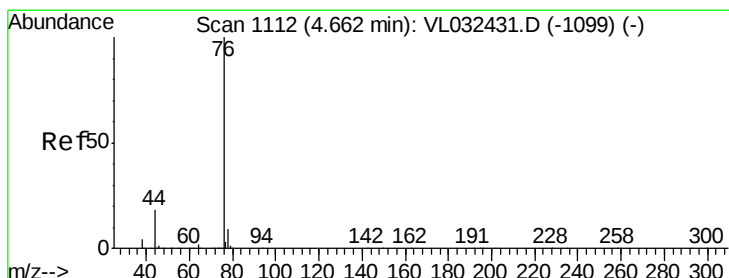
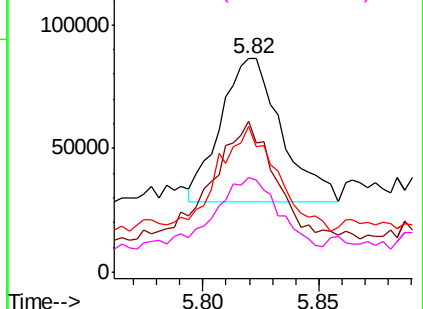


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.177 ppbv

RT: 4.65 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

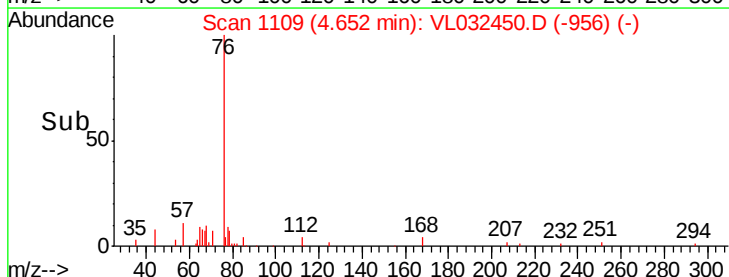
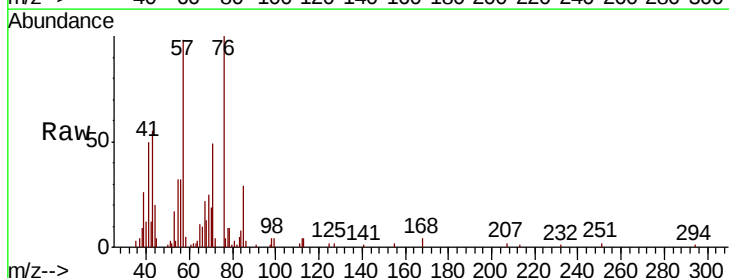
Tgt Ion: 76 Resp: 24206

Ion Ratio Lower Upper

76 100

44 36.4 14.0 21.0#

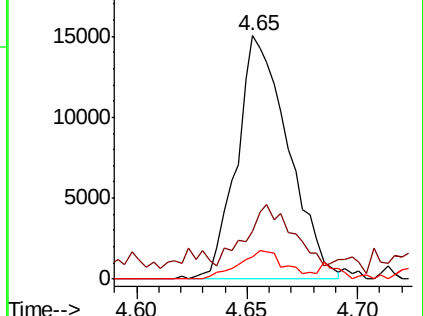
78 10.3 7.5 11.3

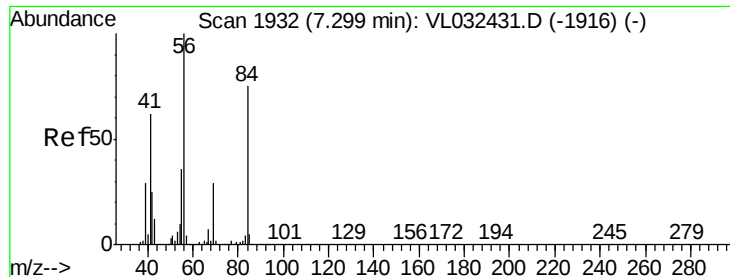


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

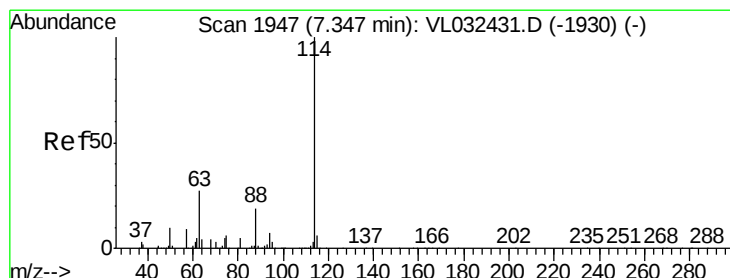
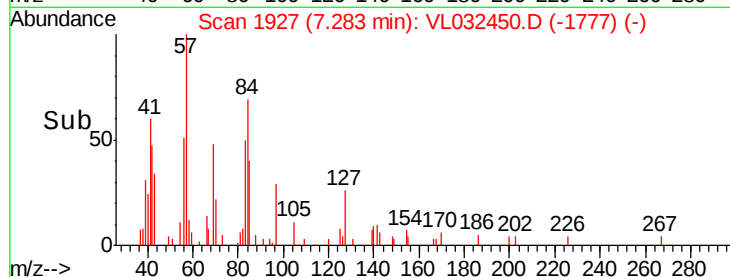
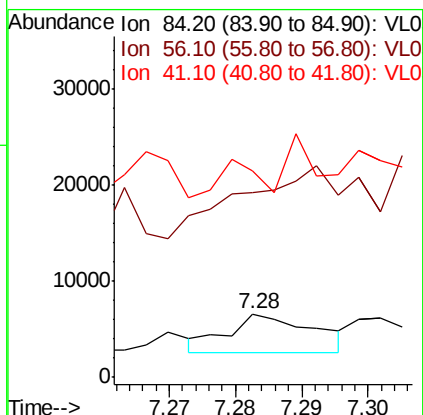
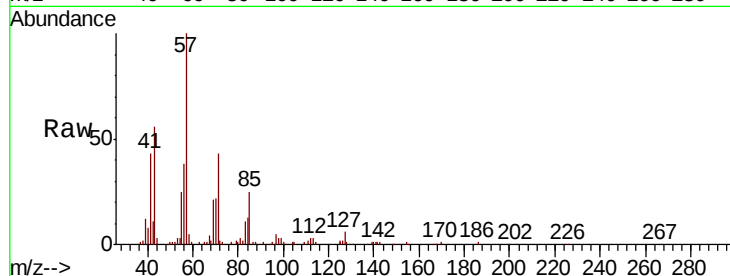




#30
Cyclohexane
Concen: 0.032 ppbv
RT: 7.28 min Scan# 1927
Delta R.T. -0.02 min
Lab File: VL032450.D
Acq: 31 Aug 2018 21:37

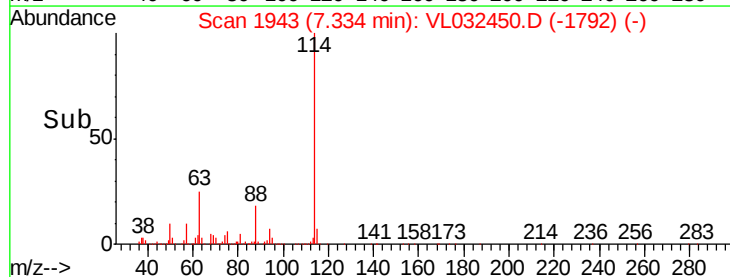
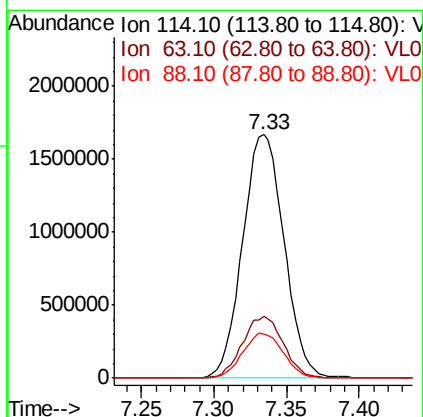
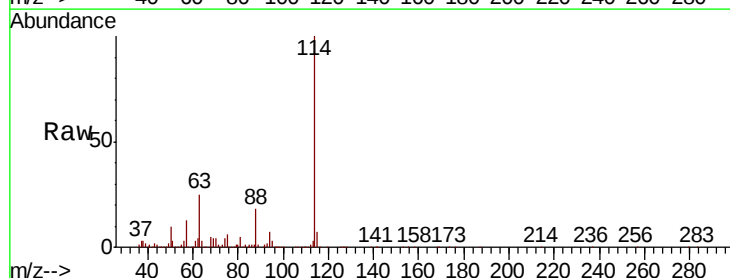
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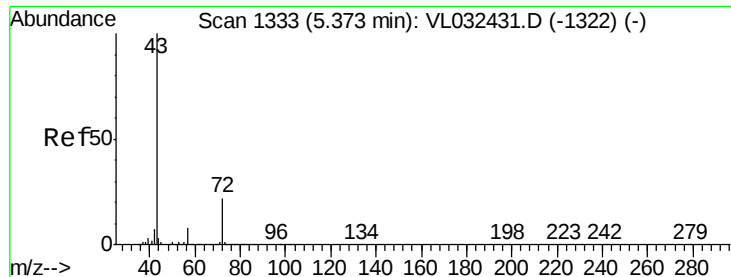
Tgt Ion: 84 Resp: 3510
Ion Ratio Lower Upper
84 100
56 0.0 113.5 170.3#
41 478.5 68.1 102.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.33 min Scan# 1943
Delta R.T. -0.01 min
Lab File: VL032450.D
Acq: 31 Aug 2018 21:37

Tgt Ion: 114 Resp: 3316456
Ion Ratio Lower Upper
114 100
63 25.3 22.2 33.4
88 18.3 15.0 22.4

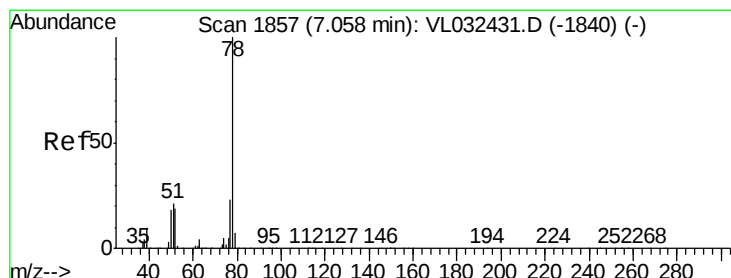
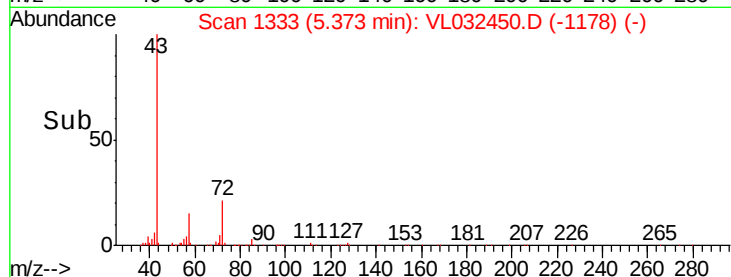
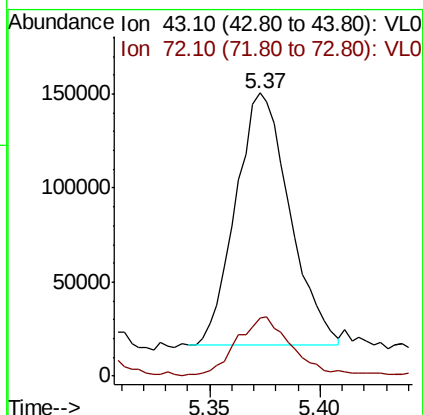
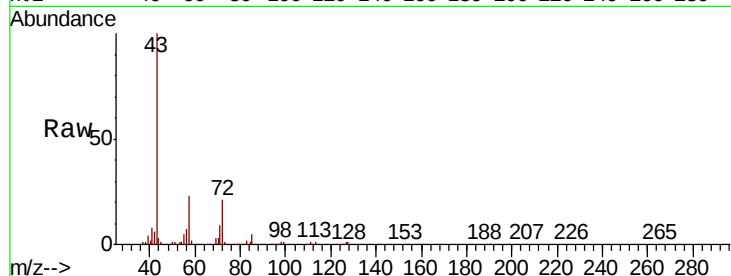




#34
2-Butanone
Concen: 1.032 ppbv
RT: 5.37 min Scan# 1333
Delta R.T. -0.00 min
Lab File: VL032450.D
Acq: 31 Aug 2018 21:37

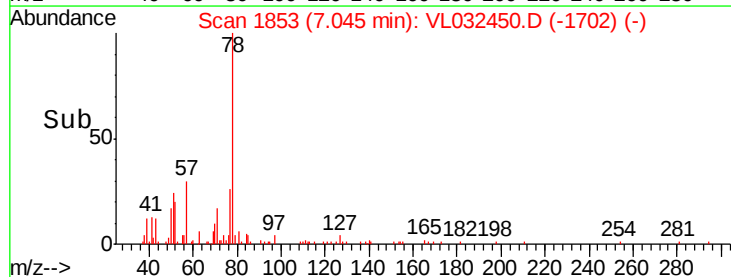
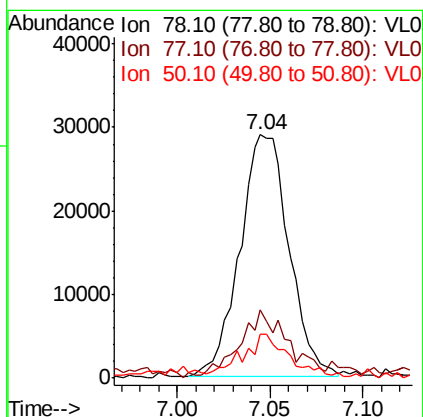
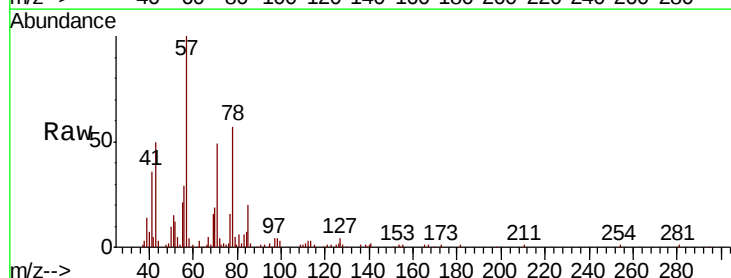
Instrument :
MSVOA_L
ClientSampleId :
VP-03DL

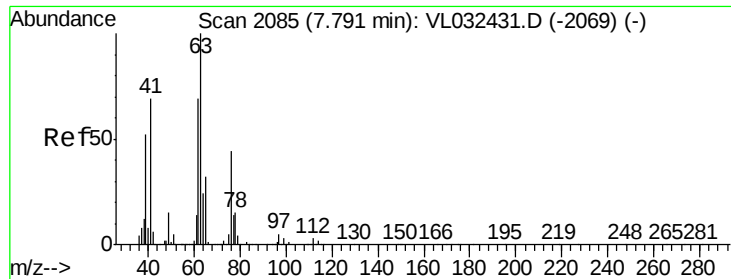
Tgt Ion: 43 Resp: 227385
Ion Ratio Lower Upper
43 100
72 24.2 17.8 26.6



#36
Benzene
Concen: 0.190 ppbv
RT: 7.04 min Scan# 1853
Delta R.T. -0.01 min
Lab File: VL032450.D
Acq: 31 Aug 2018 21:37

Tgt Ion: 78 Resp: 53493
Ion Ratio Lower Upper
78 100
77 26.0 18.4 27.6
50 15.9 14.4 21.6

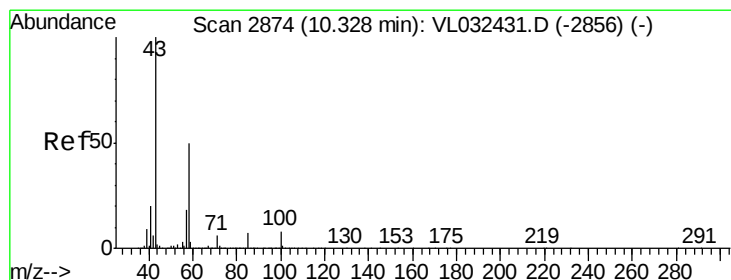
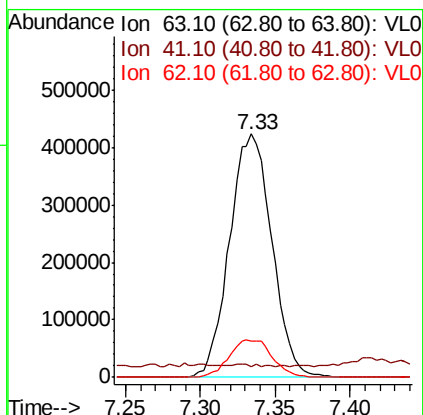
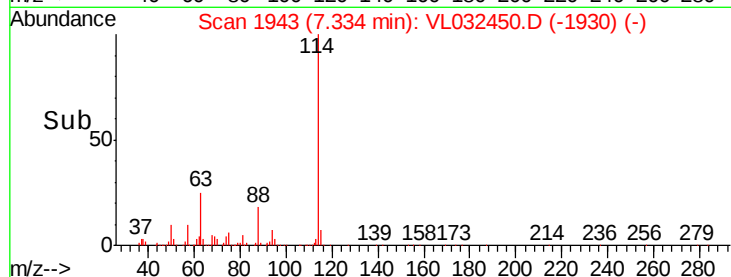
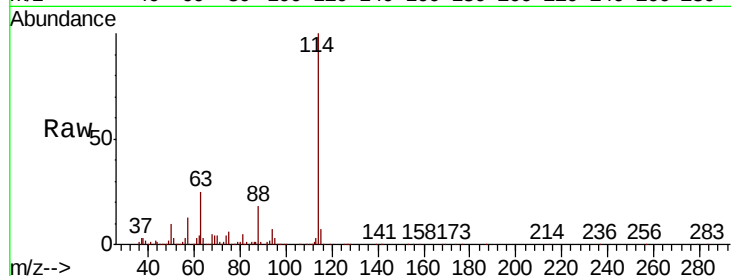




#39
 1,2-Dichloropropane
 Concen: 6.864 ppbv
 RT: 7.33 min Scan# 1943
 Delta R.T. -0.46 min
 Lab File: VL032450.D
 Acq: 31 Aug 2018 21:37

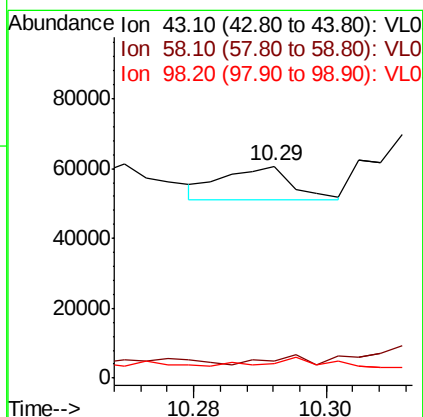
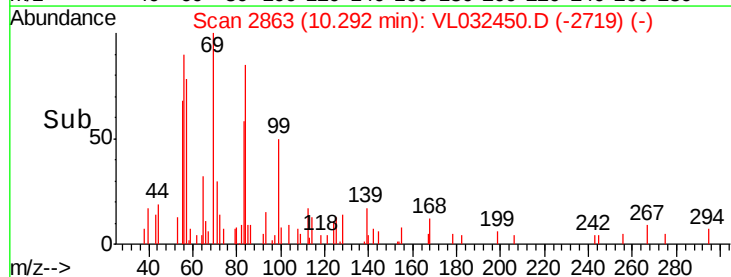
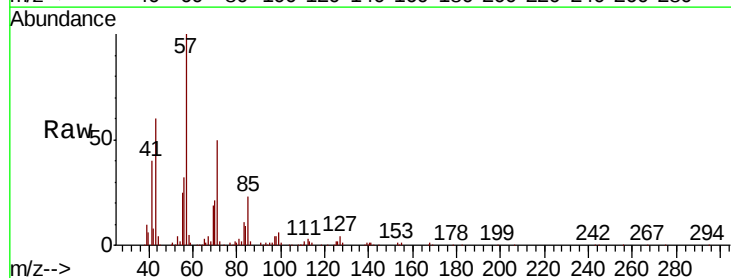
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03DL

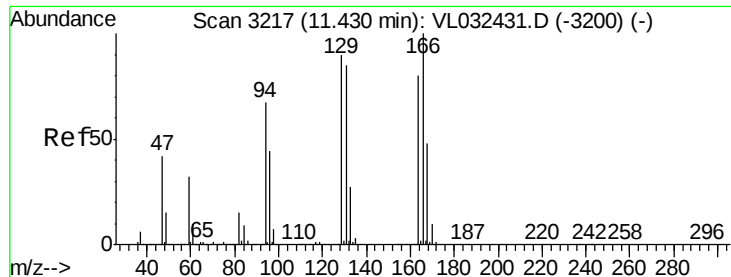
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.4	83.0#
62	14.8	55.4	83.0#



#51
 2-Hexanone
 Concen: 0.033 ppbv
 RT: 10.29 min Scan# 2863
 Delta R.T. -0.04 min
 Lab File: VL032450.D
 Acq: 31 Aug 2018 21:37

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.2	58.8#
98	31.1	0.4	0.6#





#52

Tetrachloroethene

Concen: 0.099 ppbv

RT: 11.42 min Scan# 3213

Delta R.T. -0.01 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

Instrument :

MSVOA_L

ClientSampleId :

VP-03DL

Tgt Ion:164 Resp: 8669

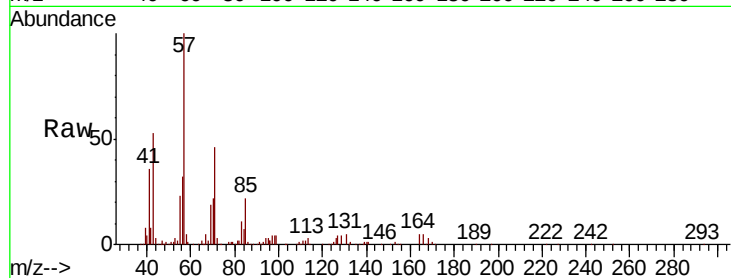
Ion Ratio Lower Upper

164 100

166 93.8 100.6 150.8#

129 70.2 89.9 134.9#

131 102.1 85.9 128.9

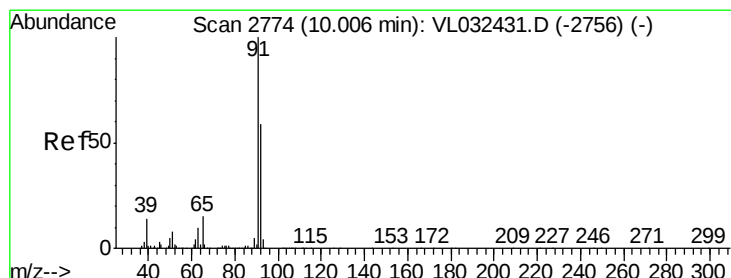
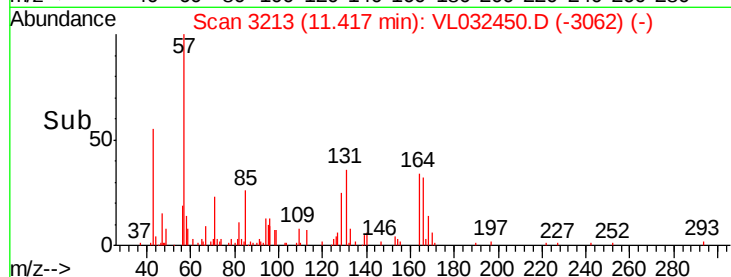
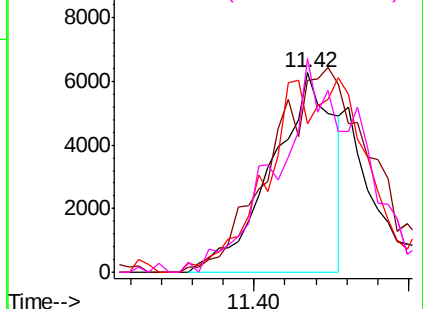


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.852 ppbv

RT: 9.99 min Scan# 2770

Delta R.T. -0.01 min

Lab File: VL032450.D

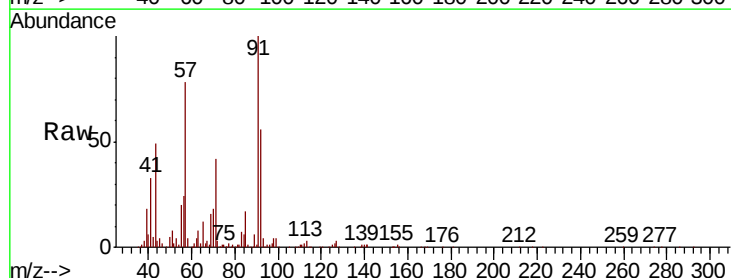
Acq: 31 Aug 2018 21:37

Tgt Ion: 91 Resp: 251310

Ion Ratio Lower Upper

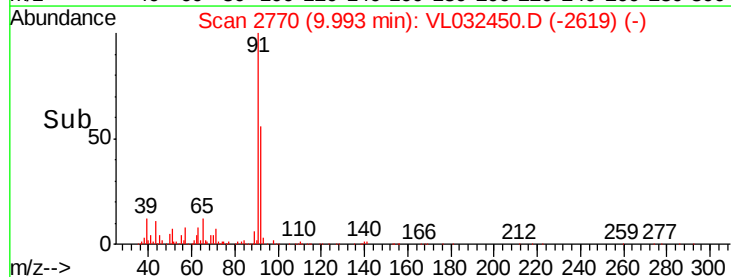
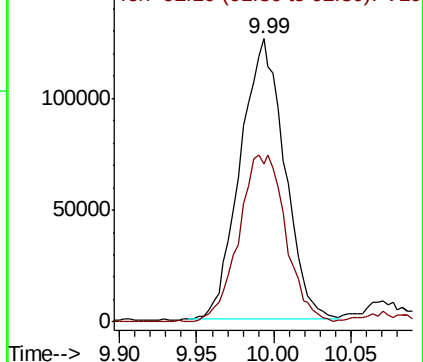
91 100

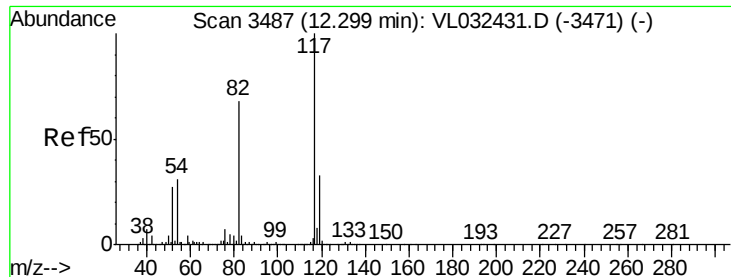
92 62.4 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

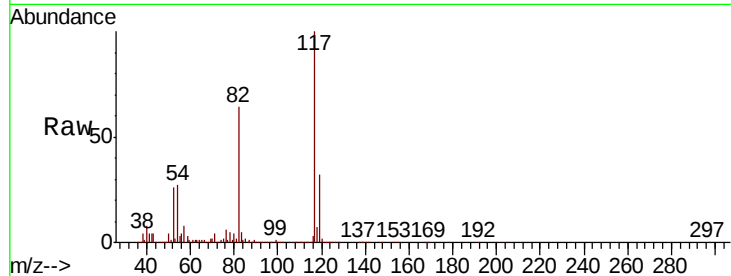




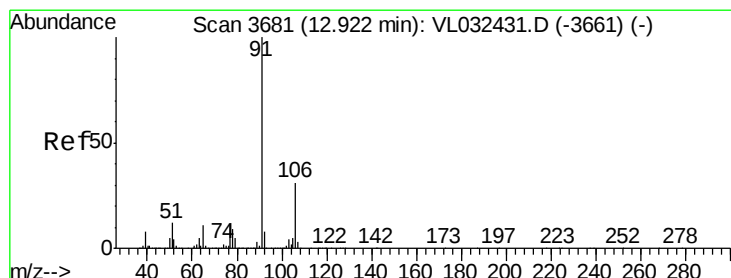
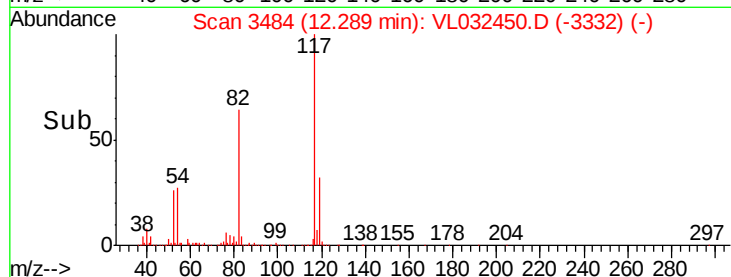
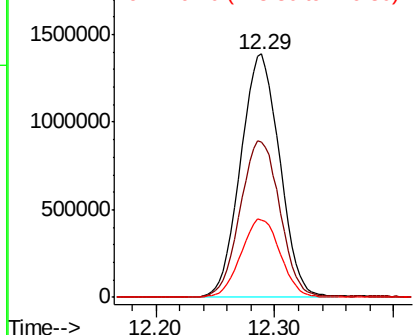
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3484
Delta R.T. -0.01 min
Lab File: VL032450.D
Acq: 31 Aug 2018 21:37

Instrument :
MSVOA_L
ClientSampleId :
VP-03DL

Tgt Ion:117 Resp: 3163724
Ion Ratio Lower Upper
117 100
82 65.5 53.0 79.6
119 32.7 45.9 68.9#

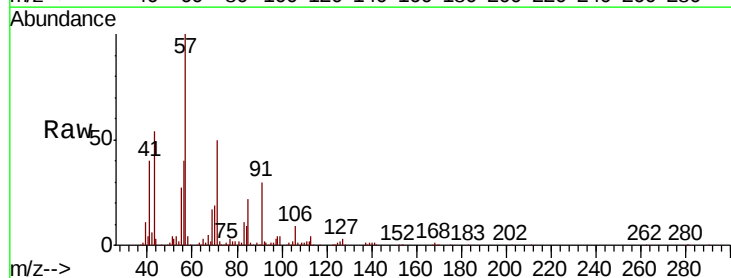


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

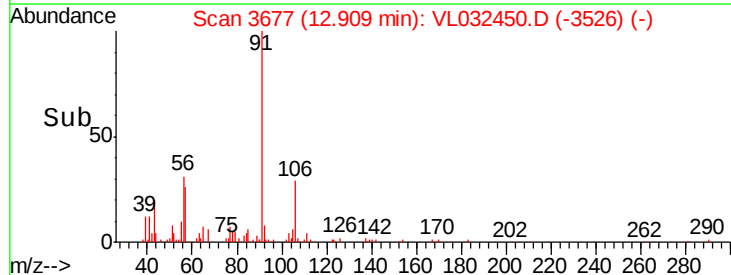
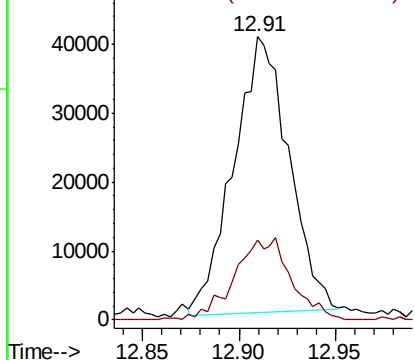


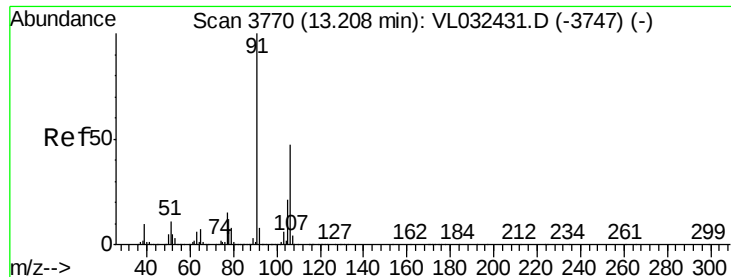
#58
Ethyl Benzene
Concen: 0.210 ppbv
RT: 12.91 min Scan# 3677
Delta R.T. -0.01 min
Lab File: VL032450.D
Acq: 31 Aug 2018 21:37

Tgt Ion: 91 Resp: 79659
Ion Ratio Lower Upper
91 100
106 28.2 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.090 ppbv

RT: 13.21 min Scan# 3770

Delta R.T. -0.00 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

Instrument :

MSVOA_L

ClientSampleId :

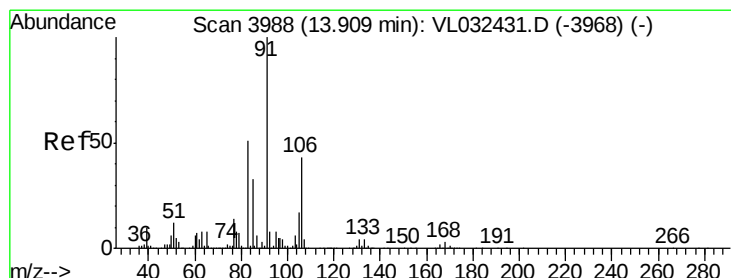
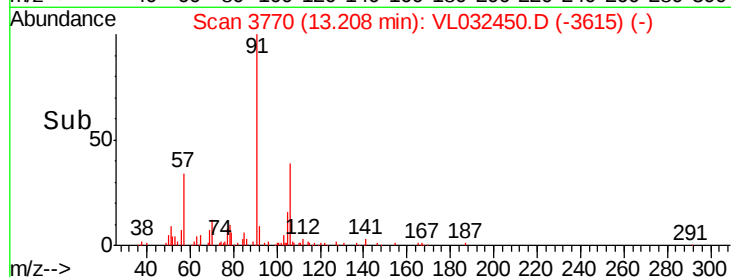
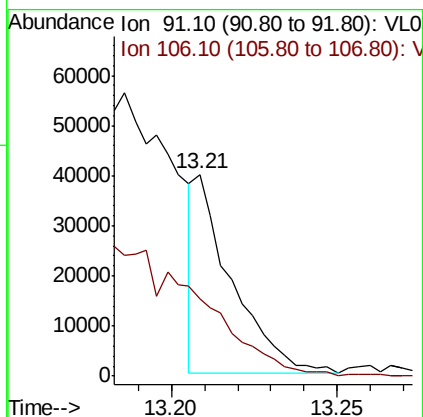
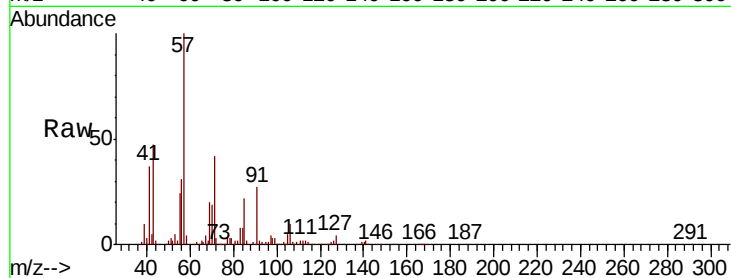
VP-03DL

Tgt Ion: 91 Resp: 30392

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#



#60

o-Xylene

Concen: 0.242 ppbv

RT: 13.90 min Scan# 3984

Delta R.T. -0.01 min

Lab File: VL032450.D

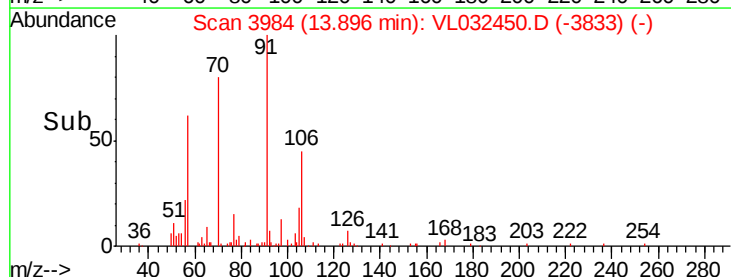
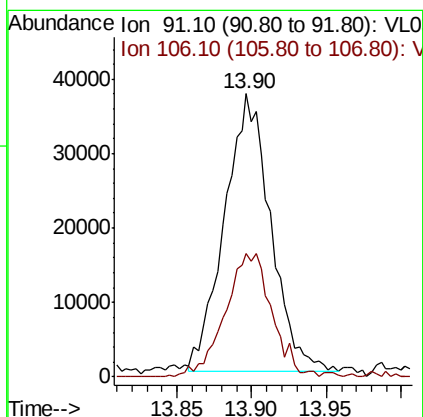
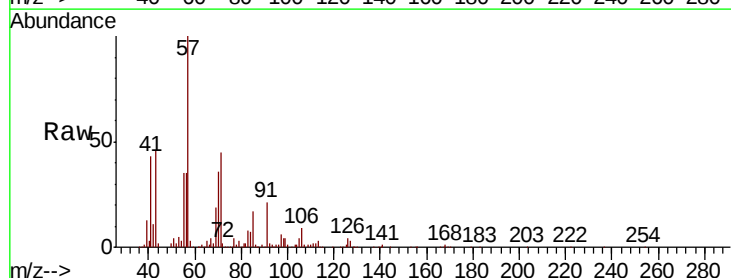
Acq: 31 Aug 2018 21:37

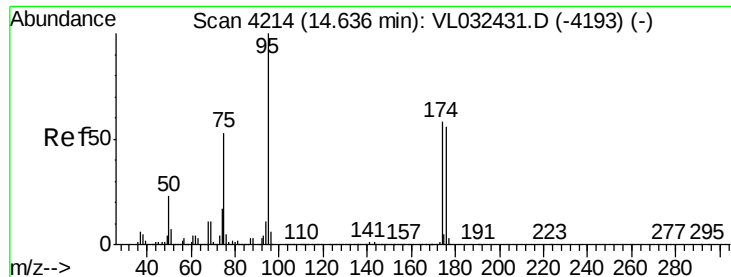
Tgt Ion: 91 Resp: 80298

Ion Ratio Lower Upper

91 100

106 46.0 21.9 65.7

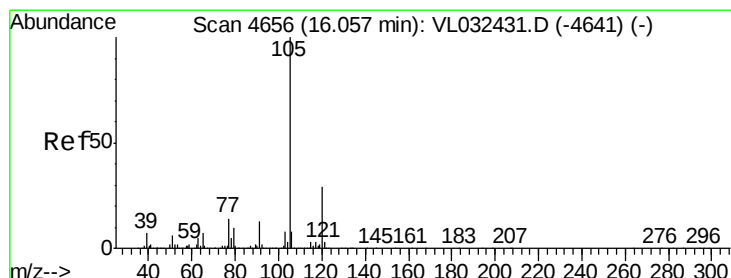
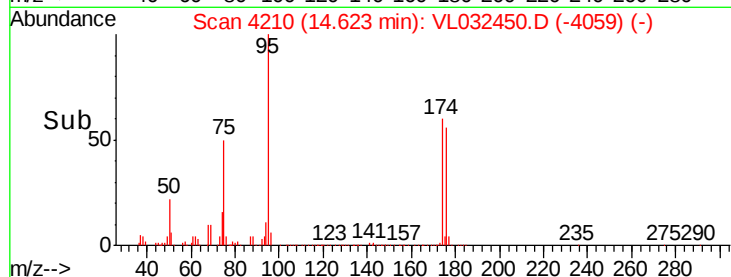
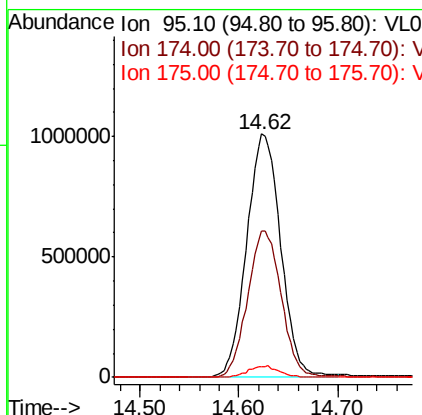
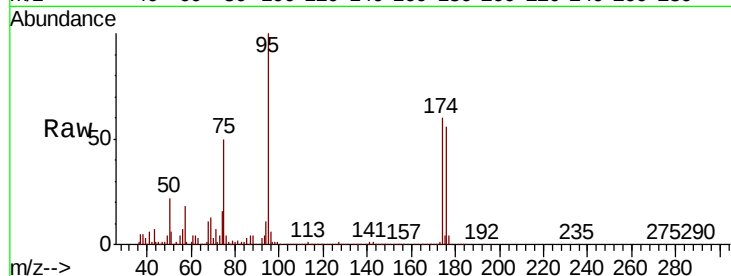




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.218 ppbv
 RT: 14.62 min Scan# 4210
 Delta R.T. -0.01 min
 Lab File: VL032450.D
 Acq: 31 Aug 2018 21:37

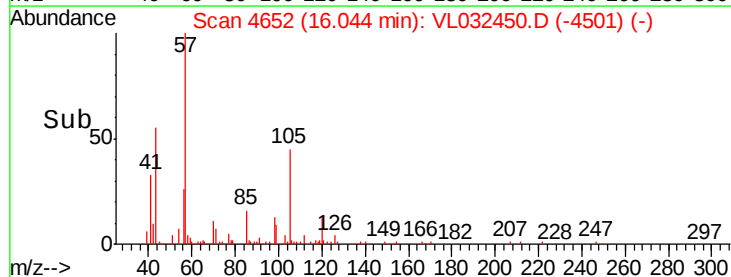
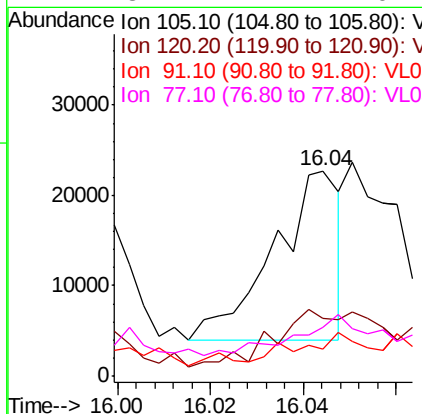
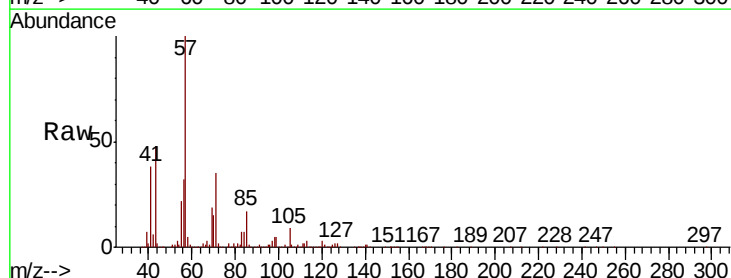
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03DL

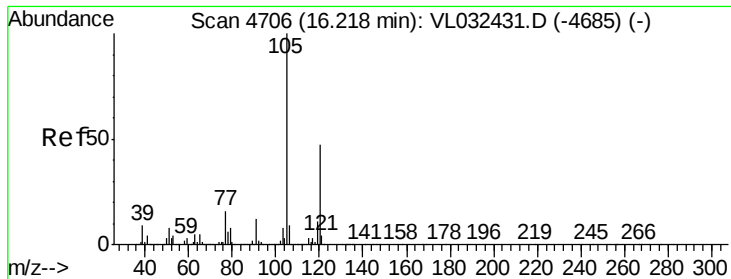
Tgt Ion: 95 Resp: 2400144
 Ion Ratio Lower Upper
 95 100
 174 60.3 46.3 69.5
 175 4.5 3.4 5.0



#72
 4-Ethyltoluene
 Concen: 0.052 ppbv
 RT: 16.04 min Scan# 4652
 Delta R.T. -0.01 min
 Lab File: VL032450.D
 Acq: 31 Aug 2018 21:37

Tgt Ion: 105 Resp: 18693
 Ion Ratio Lower Upper
 105 100
 120 73.4 23.5 35.3#
 91 32.5 10.2 15.2#
 77 37.4 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.053 ppbv

RT: 16.21 min Scan# 4702

Delta R.T. -0.01 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

Instrument :

MSVOA_L

ClientSampleId :

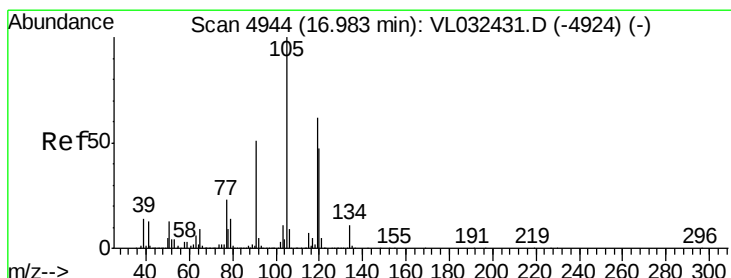
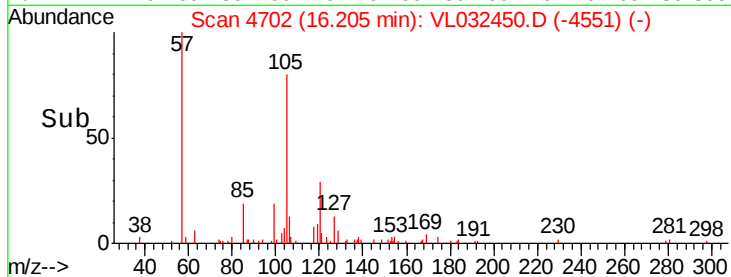
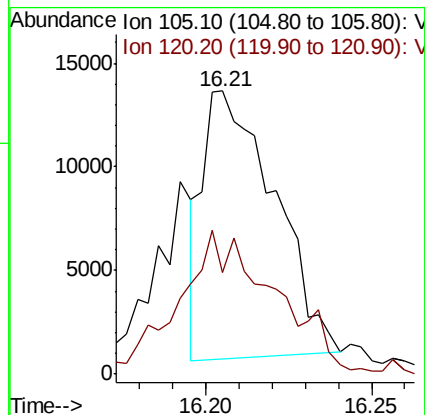
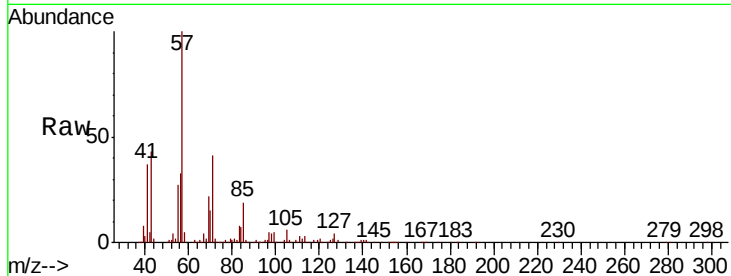
VP-03DL

Tgt Ion:105 Resp: 19230

Ion Ratio Lower Upper

105 100

120 35.7 37.9 56.9#



#74

1,2,4-Trimethylbenzene

Concen: 0.256 ppbv

RT: 16.98 min Scan# 4942

Delta R.T. -0.01 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

Tgt Ion:105 Resp: 101395

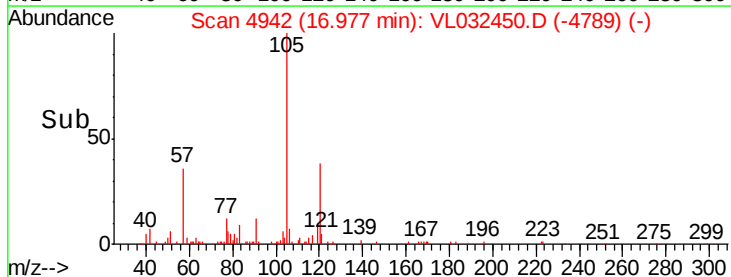
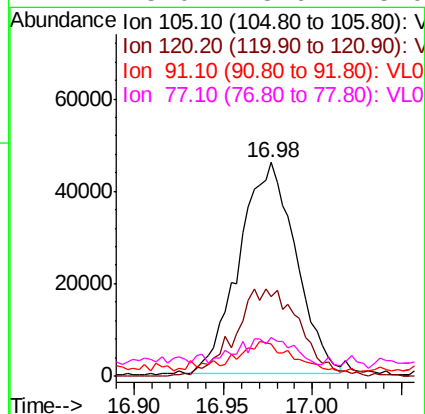
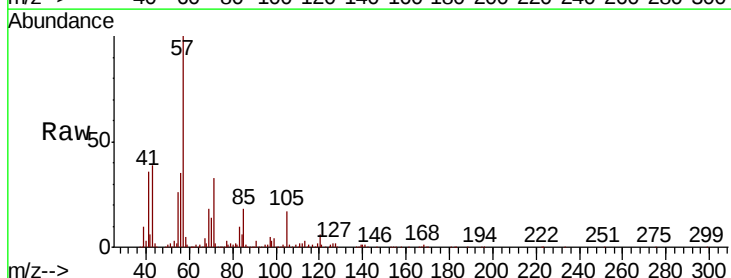
Ion Ratio Lower Upper

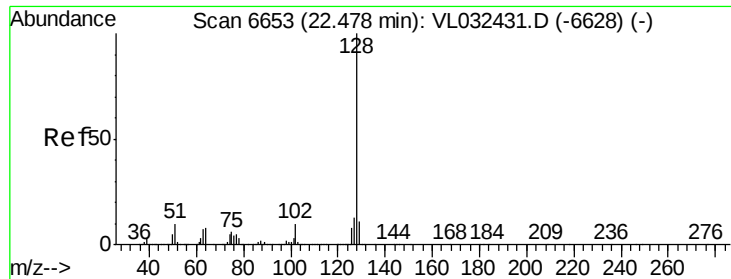
105 100

120 37.0 37.8 56.8#

91 13.8 41.4 62.0#

77 13.0 18.6 28.0#





#79

Naphthalene

Concen: 0.067 ppbv

RT: 22.47 min Scan# 6650

Delta R.T. -0.01 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

Instrument :

MSVOA_L

ClientSampleId :

VP-03DL

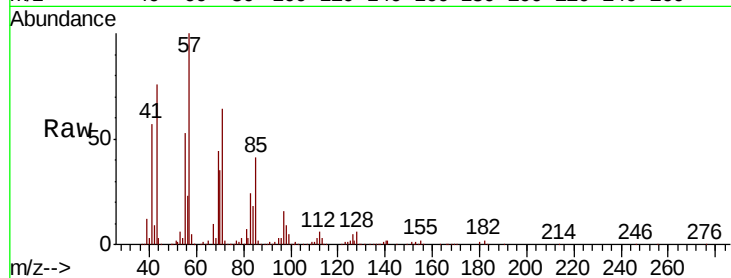
Tgt Ion:128 Resp: 21757

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

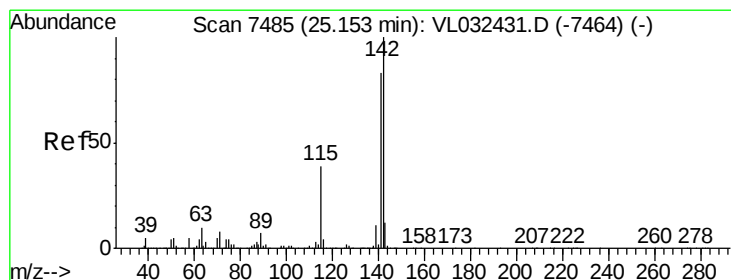
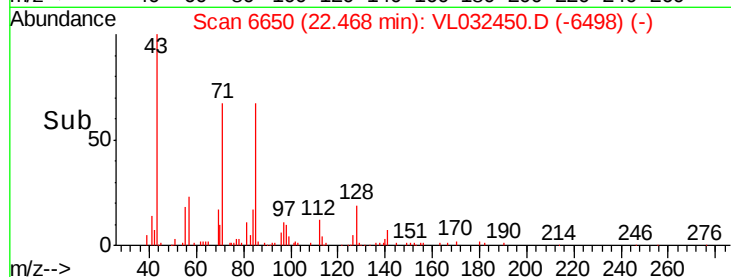
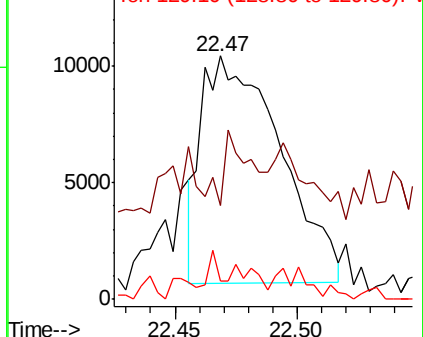
129 7.7 8.5 12.7#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.234 ppbv

RT: 25.27 min Scan# 7522

Delta R.T. 0.12 min

Lab File: VL032450.D

Acq: 31 Aug 2018 21:37

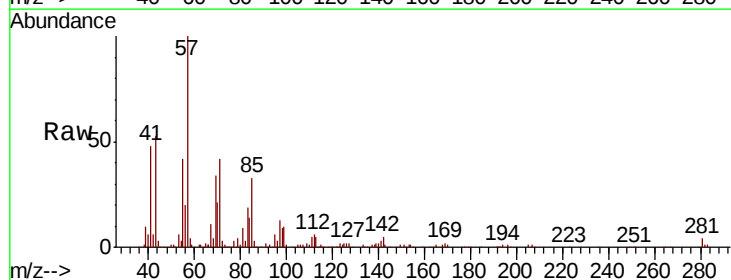
Tgt Ion:142 Resp: 20114

Ion Ratio Lower Upper

142 100

141 72.8 67.0 100.6

115 39.1 31.3 46.9



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

