

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL090518\
 Data File : VL032475.D
 Acq On : 6 Sep 2018 3:50
 Operator : SY/AP
 Sample : J4745-02 4X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03

Quant Time: Sep 06 05:03:31 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	1531690	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3064440	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3003299	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2295988	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	14616	0.075	ppbv	94
3) Chlorodifluoromethane	3.04	51	37206	0.268	ppbv	99
9) Propene	3.06	41	1351087	24.157	ppbv	95
10) Heptane	8.30	43	121485	0.605	ppbv	99
11) Trichlorofluoromethane	4.04	101	241188	1.365	ppbv	98
13) Ethanol	3.68	45	153207	8.788	ppbv	96
15) Acetone	3.93	43	2188071	15.863	ppbv	96
16) 1,3-Butadiene	3.37	39	787794	12.138	ppbv #	20
17) tert-Butyl alcohol	4.40	59	346849	16.340	ppbv #	100
19) Isopropyl Alcohol	4.06	45	24703	0.273	ppbv #	93
20) Methylene Chloride	4.44	84	10272	0.195	ppbv #	87
21) Allyl Chloride	4.50	41	29314	0.320	ppbv #	1
23) Vinyl Acetate	5.18	43	105041	0.459	ppbv #	60
25) Ethyl Acetate	5.82	43	136205	0.418	ppbv #	81
26) Hexane	5.82	57	176834	1.212	ppbv #	42
27) Carbon Disulfide	4.66	76	59146	0.439	ppbv	94
29) Chloroform	5.89	83	82112	0.369	ppbv	92
30) Cyclohexane	7.28	84	4663	0.044	ppbv #	1
34) 2-Butanone	5.37	43	781949	3.842	ppbv	99
36) Benzene	7.05	78	295634	1.134	ppbv	98
38) Trichloroethene	8.01	130	5592	0.056	ppbv #	41
39) 1,2-Dichloropropane	7.33	63	806271	7.226	ppbv #	25
41) Tetrahydrofuran	6.21	42	25952	0.234	ppbv	95
44) 2,2,4-Trimethylpentane	8.04	57	61893	0.123	ppbv #	13
50) 4-Methyl-2-Pentanone	8.92	43	61133	0.199	ppbv #	39
51) 2-Hexanone	10.33	43	125249	0.634	ppbv #	94
52) Tetrachloroethene	11.42	164	294347	3.640	ppbv	93
53) Toluene	10.00	91	1248360	4.580	ppbv	100
58) Ethyl Benzene	12.92	91	465860	1.296	ppbv	94
59) m/p-Xylene	13.17	91	1473955	4.600	ppbv	99
60) o-Xylene	13.90	91	250657	0.796	ppbv #	32
61) Styrene	13.73	104	31749	0.156	ppbv	95
62) Isopropylbenzene	14.87	105	33590	0.076	ppbv	94
64) n-propylbenzene	15.76	120	20474	0.177	ppbv #	1
65) tert-Butylbenzene	16.97	119	42326	0.111	ppbv #	1
67) sec-Butylbenzene	17.51	105	25145	0.044	ppbv #	81
69) p-Isopropyltoluene	17.86	119	37080	0.083	ppbv #	93
70) n-Butylbenzene	18.77	91	110669	0.220	ppbv #	66
71) 2-Chlorotoluene	15.77	91	232491	0.688	ppbv #	45
72) 4-Ethyltoluene	16.05	105	315468	0.918	ppbv	98
73) 1,3,5-Trimethylbenzene	16.20	105	113494	0.330	ppbv	93

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QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration

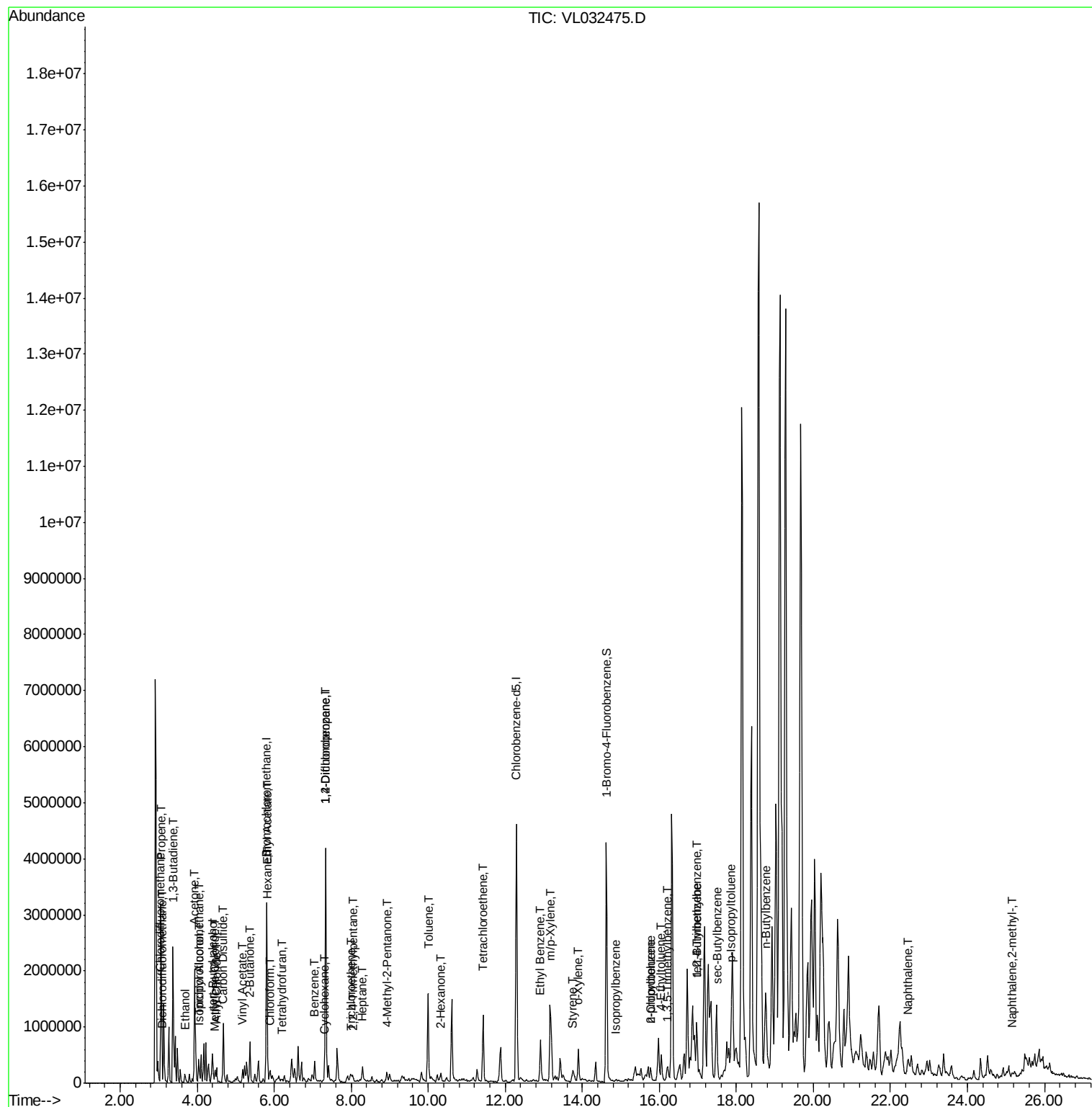
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.97	105	730523	1.941	ppbv #	69
79) Naphthalene	22.47	128	92453	0.302	ppbv #	94
80) Naphthalene,2-methyl-	25.16	142	16775	0.206	ppbv #	72

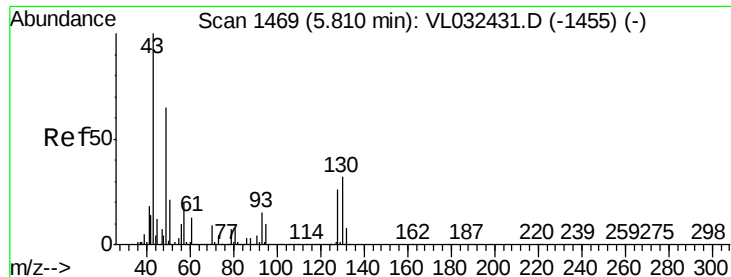
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 1467

Delta R.T. -0.01 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Instrument :

MSVOA_L

ClientSampled :

VP-03

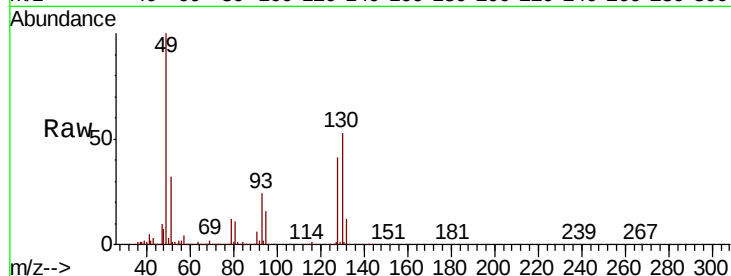
Tgt Ion: 49 Resp: 1531690

Ion Ratio Lower Upper

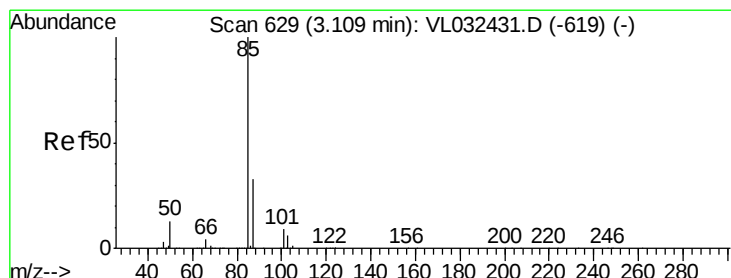
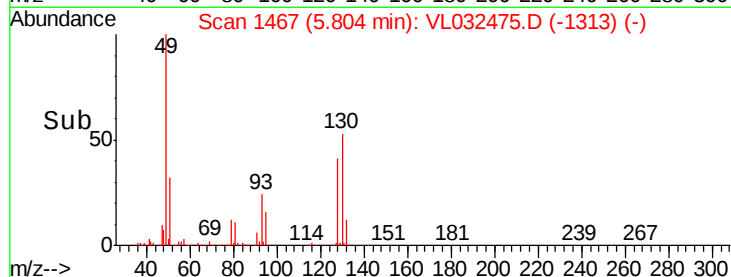
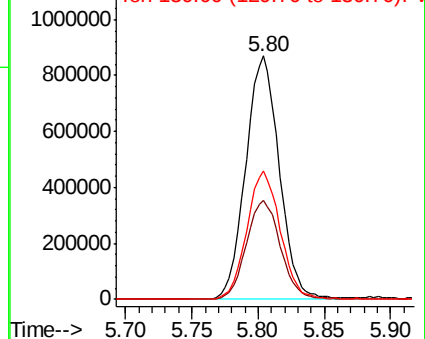
49 100

128 41.8 20.7 62.1

130 52.8 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: 0.075 ppbv

RT: 3.10 min Scan# 627

Delta R.T. -0.01 min

Lab File: VL032475.D

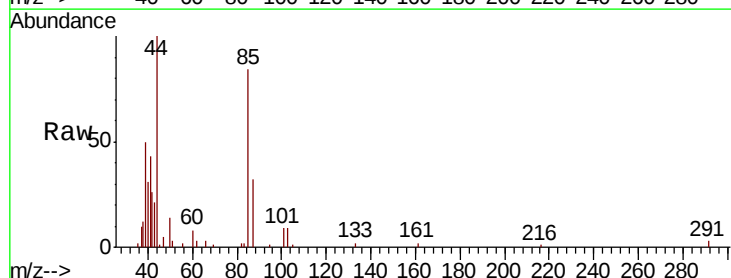
Acq: 6 Sep 2018 3:50

Tgt Ion: 85 Resp: 14616

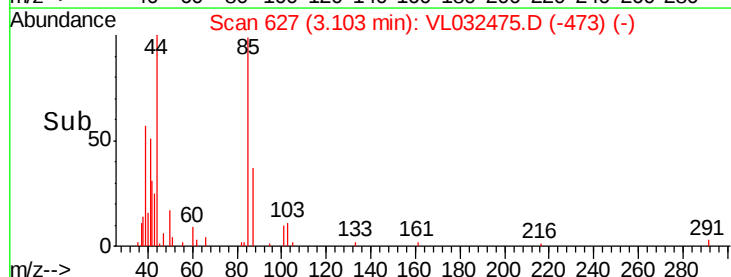
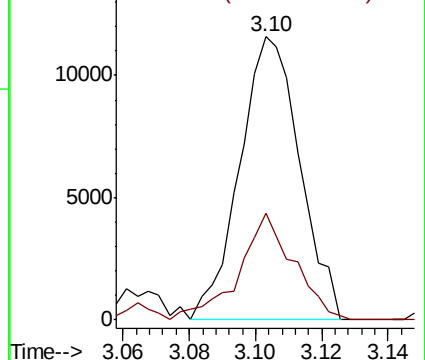
Ion Ratio Lower Upper

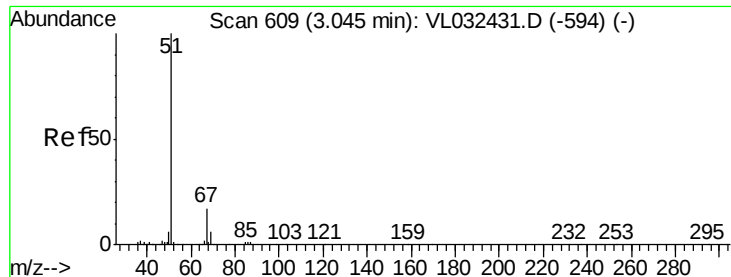
85 100

87 36.2 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: 0.268 ppbv

RT: 3.04 min Scan# 608

Delta R.T. -0.00 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Instrument :

MSVOA_L

ClientSampleId :

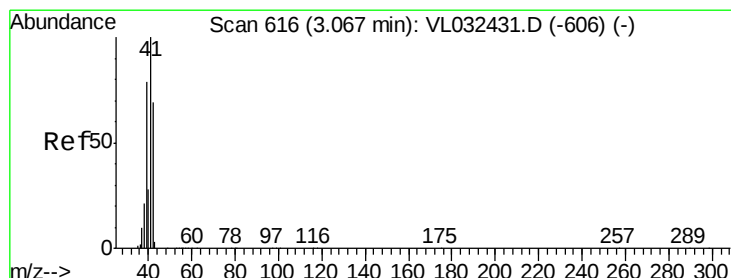
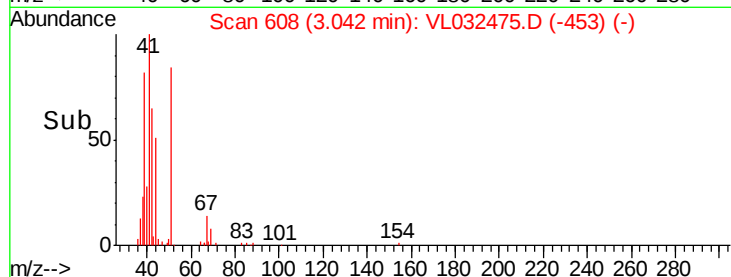
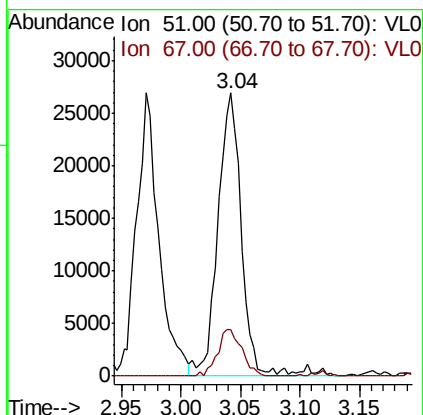
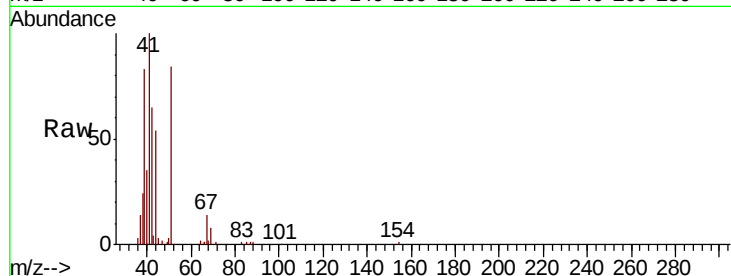
VP-03

Tgt Ion: 51 Resp: 37206

Ion Ratio Lower Upper

51 100

67 16.7 13.8 20.8



#9

Propene

Concen: 24.157 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032475.D

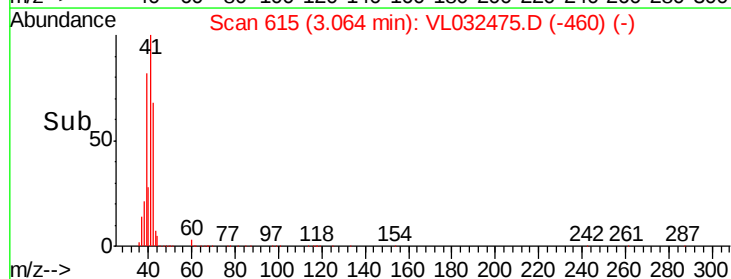
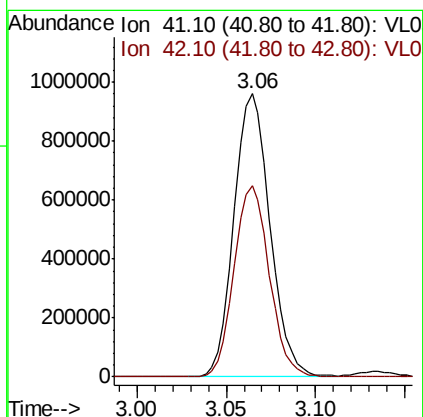
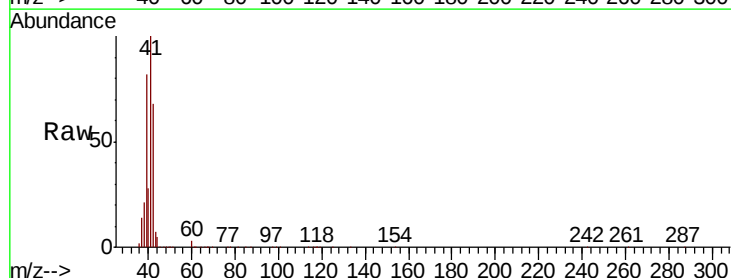
Acq: 6 Sep 2018 3:50

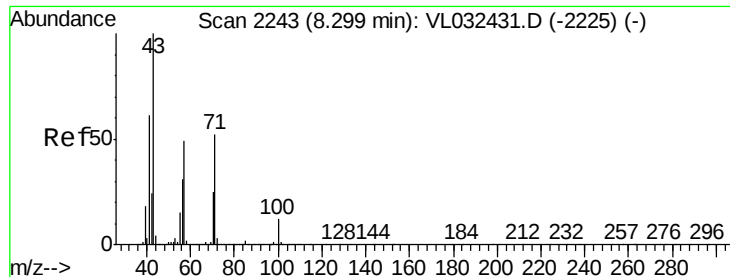
Tgt Ion: 41 Resp: 1351087

Ion Ratio Lower Upper

41 100

42 66.4 56.6 84.8

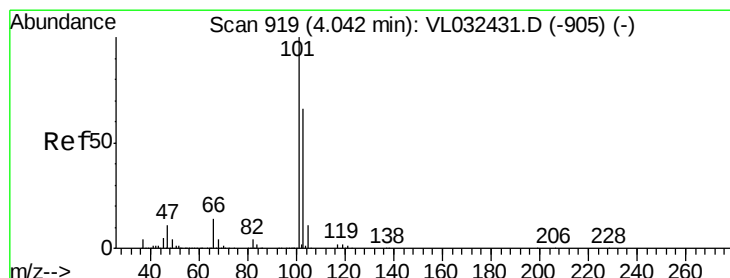
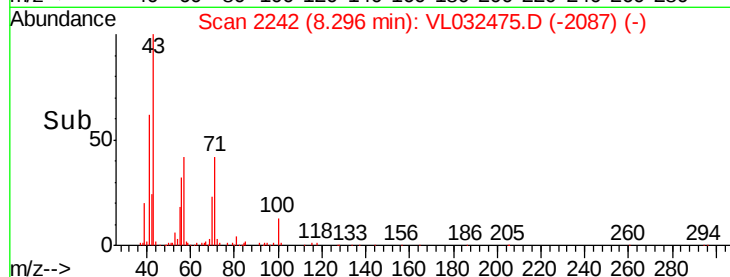
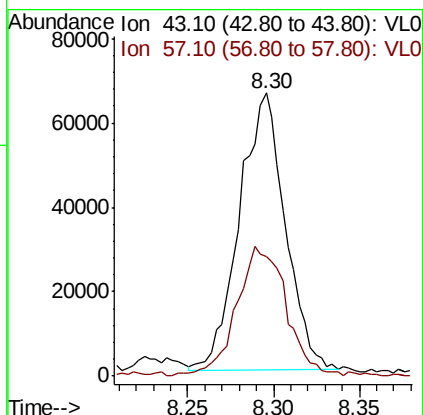
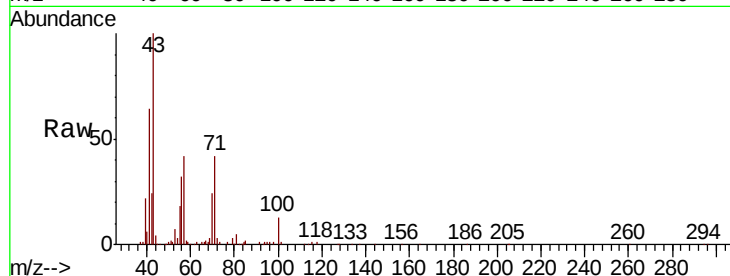




#10
 Heptane
 Concen: 0.605 ppbv
 RT: 8.30 min Scan# 2242
 Delta R.T. -0.00 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

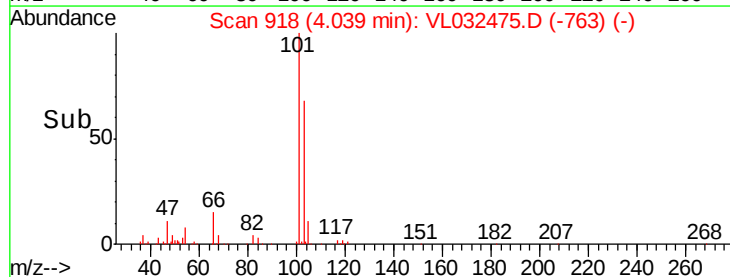
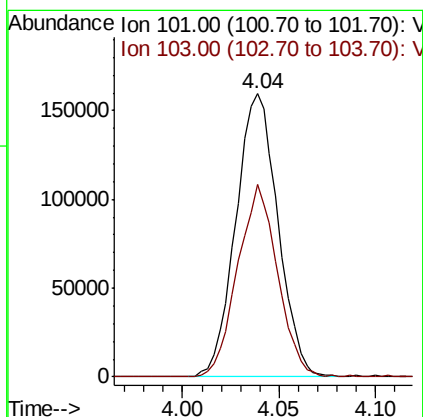
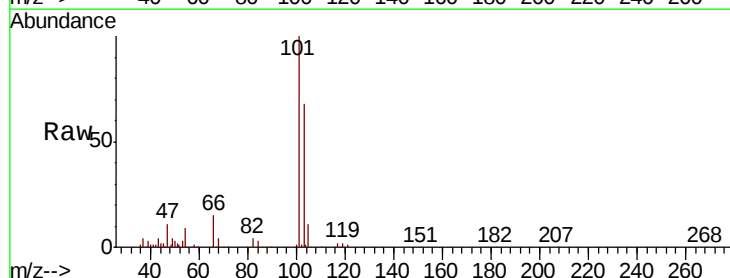
Instrument :
 MSVOA_L
 ClientSampled :
 VP-03

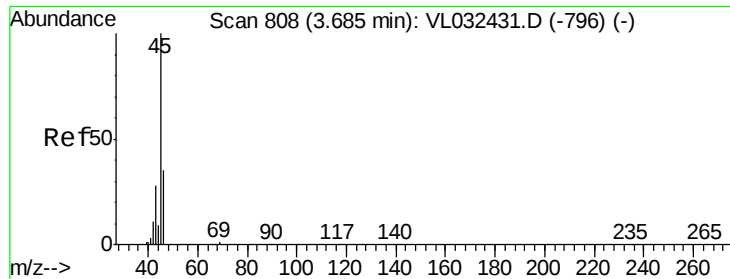
Tgt Ion: 43 Resp: 121485
 Ion Ratio Lower Upper
 43 100
 57 49.1 39.6 59.4



#11
 Trichlorofluoromethane
 Concen: 1.365 ppbv
 RT: 4.04 min Scan# 918
 Delta R.T. -0.00 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

Tgt Ion: 101 Resp: 241188
 Ion Ratio Lower Upper
 101 100
 103 67.9 52.8 79.2





#13

Ethanol

Concen: 8.788 ppbv

RT: 3.68 min Scan# 807

Delta R.T. -0.00 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Instrument :

MSVOA_L

ClientSampleId :

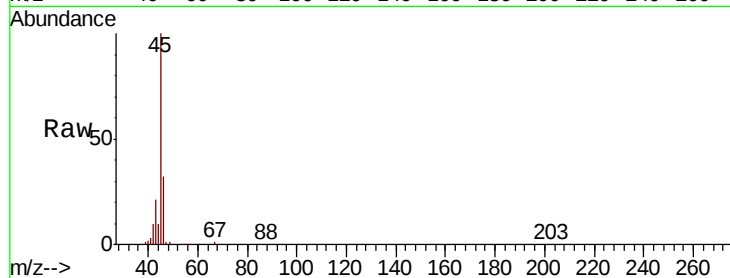
VP-03

Tgt Ion: 45 Resp: 153207

Ion Ratio Lower Upper

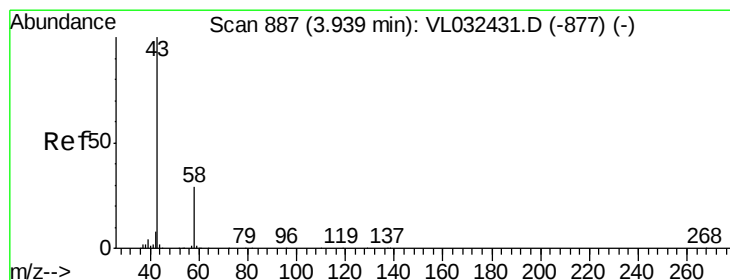
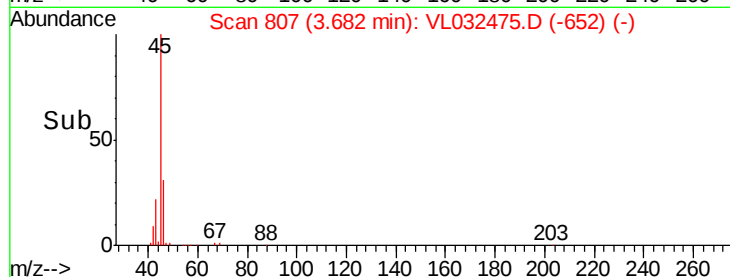
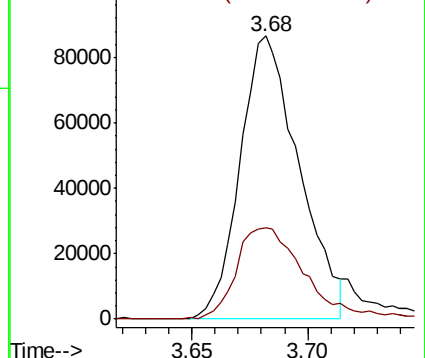
45 100

46 38.1 14.2 56.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 15.863 ppbv

RT: 3.93 min Scan# 884

Delta R.T. -0.01 min

Lab File: VL032475.D

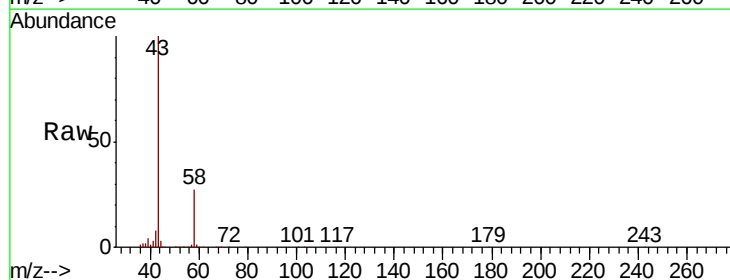
Acq: 6 Sep 2018 3:50

Tgt Ion: 43 Resp: 2188071

Ion Ratio Lower Upper

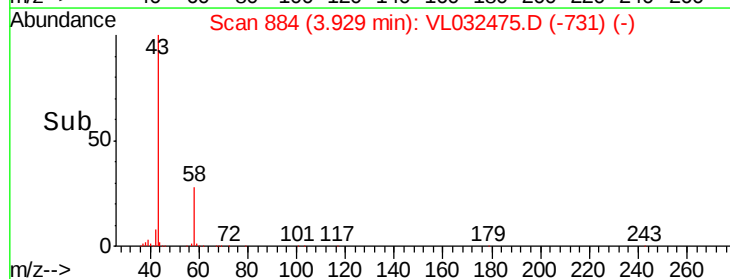
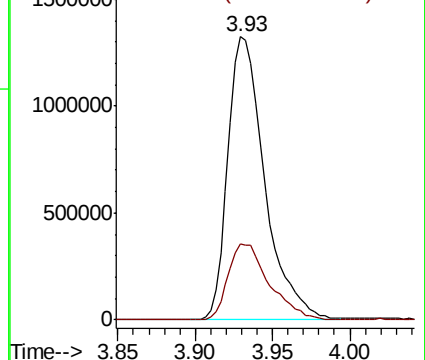
43 100

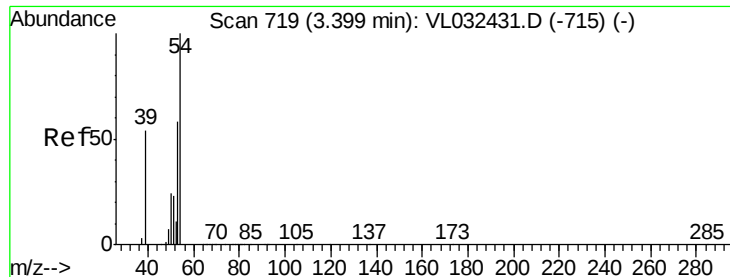
58 30.1 22.6 33.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

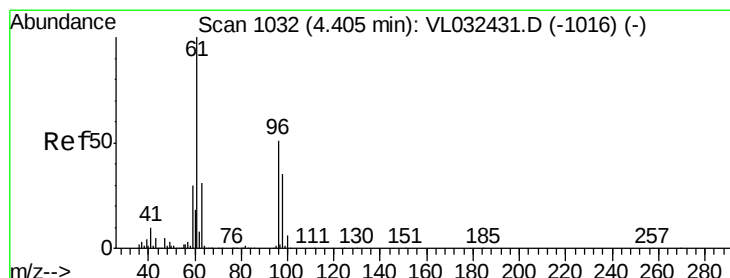
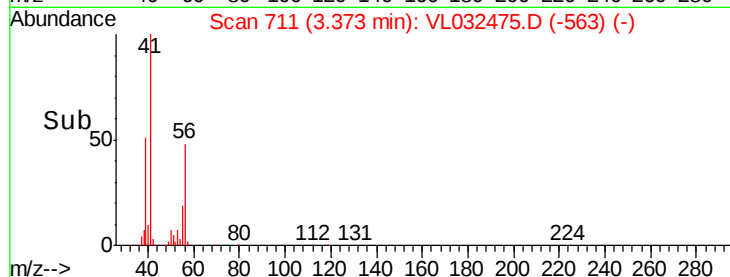
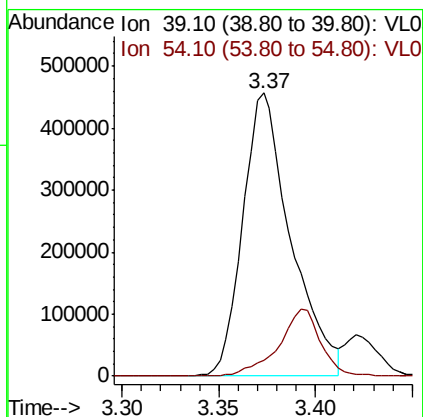
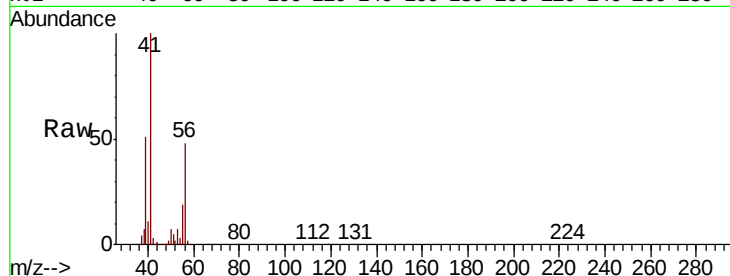




#16
 1,3-Butadiene
 Concen: 12.138 ppbv
 RT: 3.37 min Scan# 711
 Delta R.T. -0.03 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

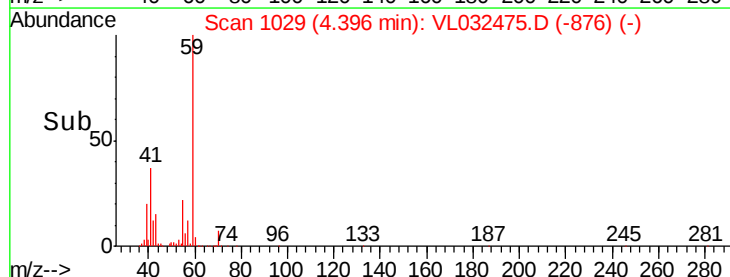
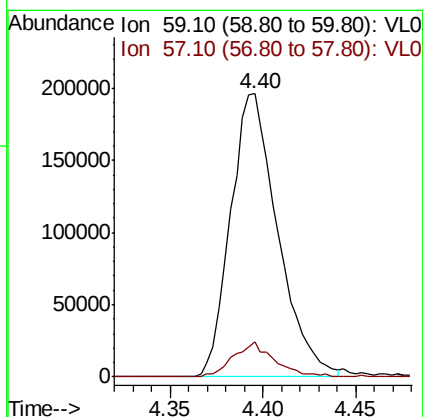
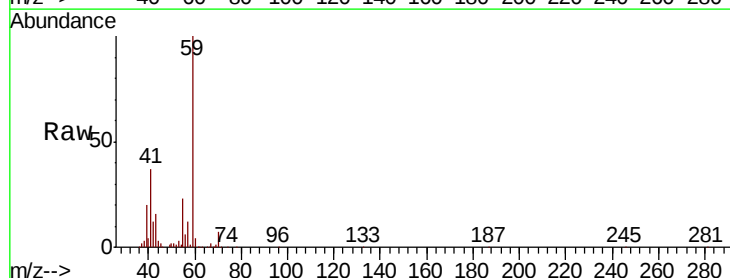
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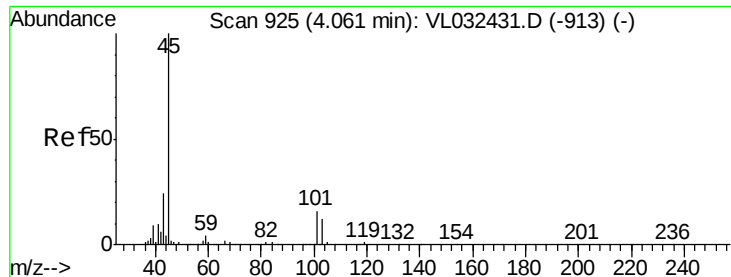
Tgt Ion: 39 Resp: 787794
 Ion Ratio Lower Upper
 39 100
 54 20.9 80.8 121.2#



#17
 tert-Butyl alcohol
 Concen: 16.340 ppbv
 RT: 4.40 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

Tgt Ion: 59 Resp: 346849
 Ion Ratio Lower Upper
 59 100
 57 11.2 0.0 0.0#

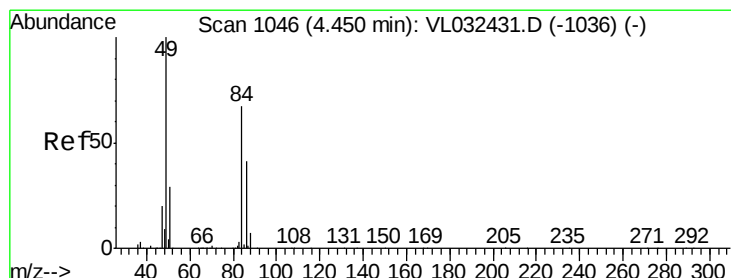
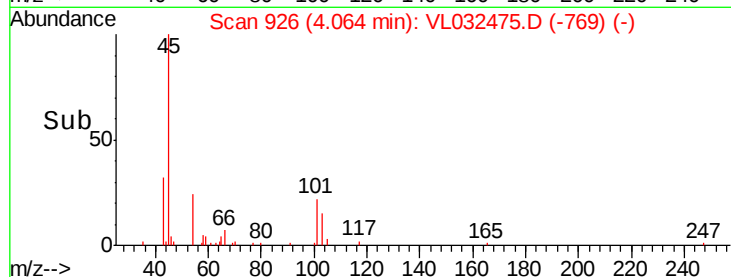
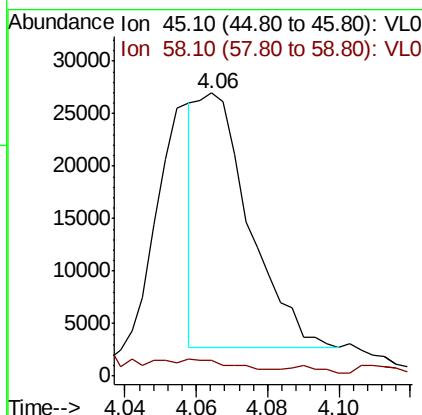
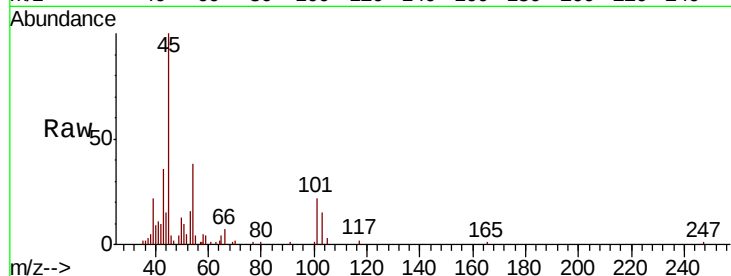




#19
Isopropyl Alcohol
Concen: 0.273 ppbv
RT: 4.06 min Scan# 926
Delta R.T. 0.00 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

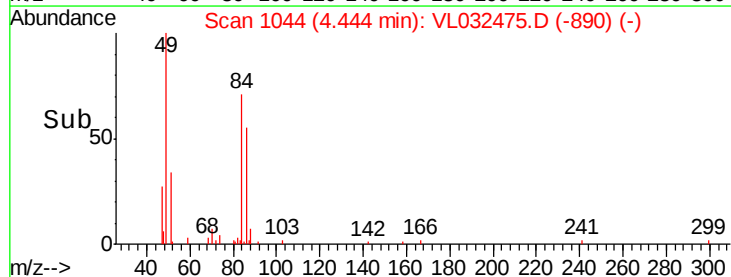
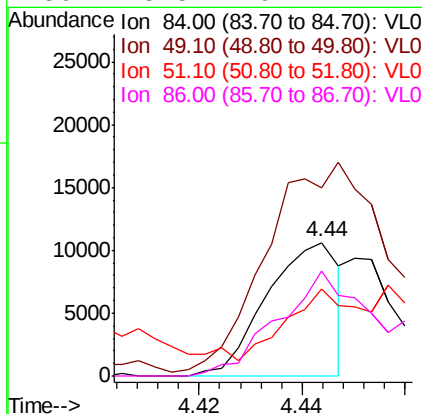
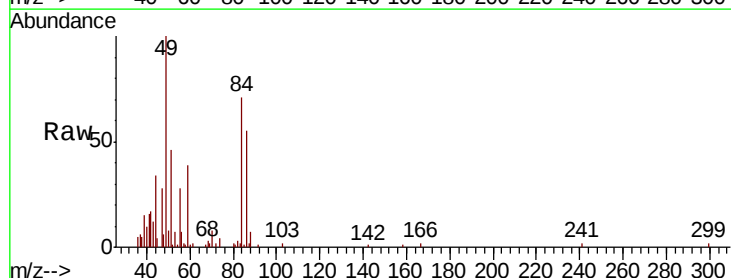
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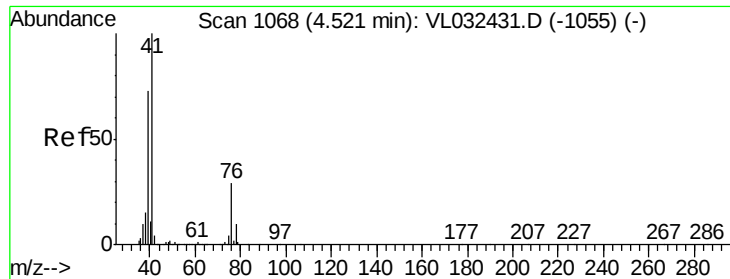
Tgt Ion: 45 Resp: 24703
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#



#20
Methylene Chloride
Concen: 0.195 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

Tgt Ion: 84 Resp: 10272
Ion Ratio Lower Upper
84 100
49 136.5 119.1 178.7
51 50.2 35.2 52.8
86 78.5 49.4 74.2#

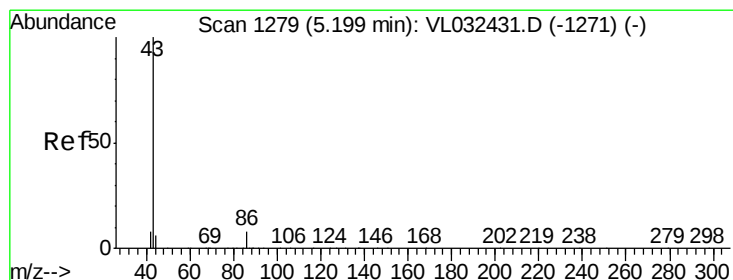
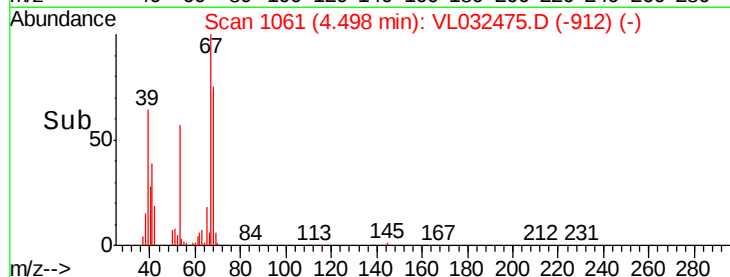
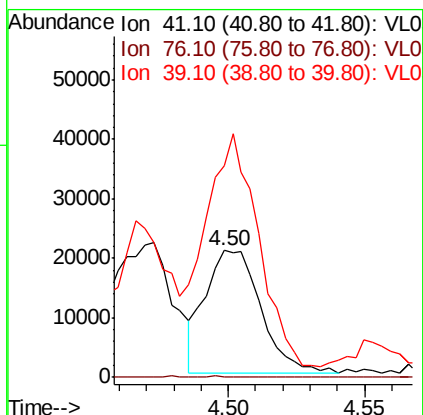
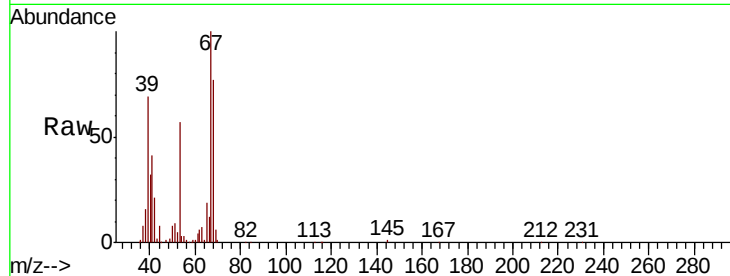




#21
 Allyl Chloride
 Concen: 0.320 ppbv
 RT: 4.50 min Scan# 1061
 Delta R.T. -0.02 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

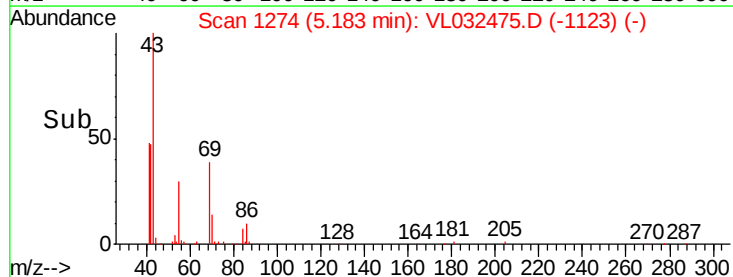
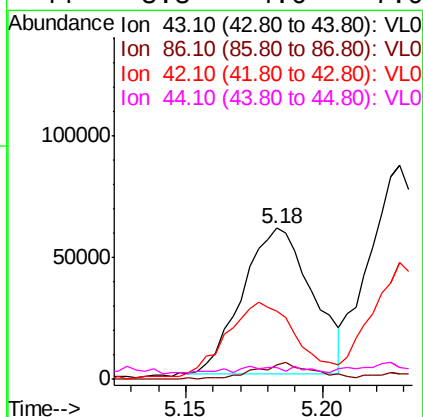
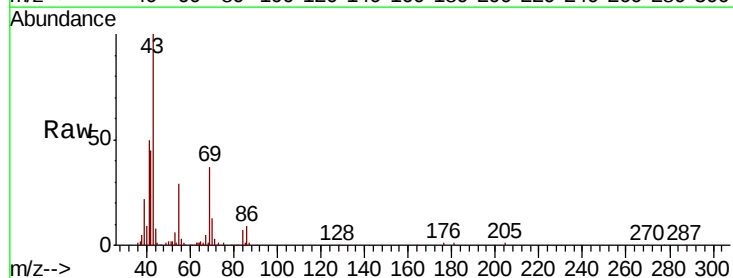
Instrument :
 MSVOA_L
 ClientSampleID :
 VP-03

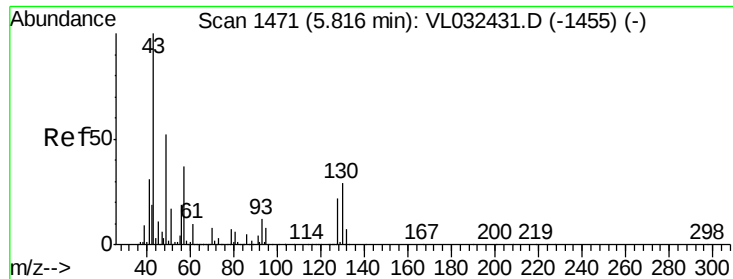
Tgt Ion: 41 Resp: 29314
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.6 35.4#
 39 298.9 57.7 86.5#



#23
 Vinyl Acetate
 Concen: 0.459 ppbv
 RT: 5.18 min Scan# 1274
 Delta R.T. -0.02 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

Tgt Ion: 43 Resp: 105041
 Ion Ratio Lower Upper
 43 100
 86 8.7 5.9 8.9
 42 42.3 6.9 10.3#
 44 3.3 4.6 7.0#

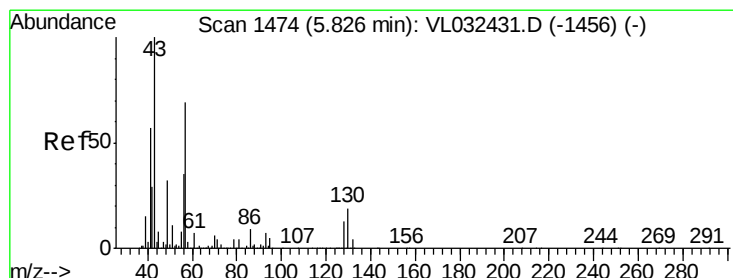
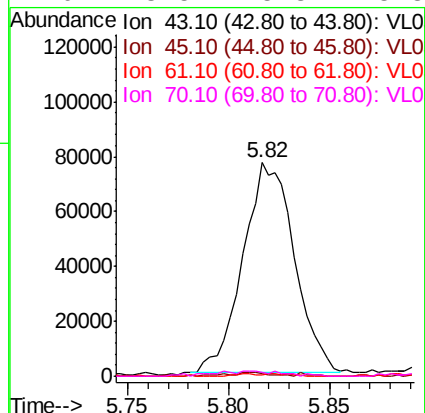
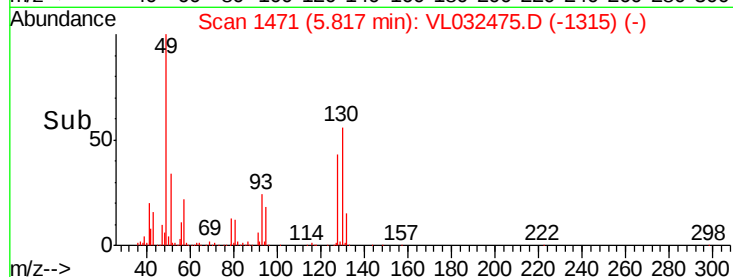
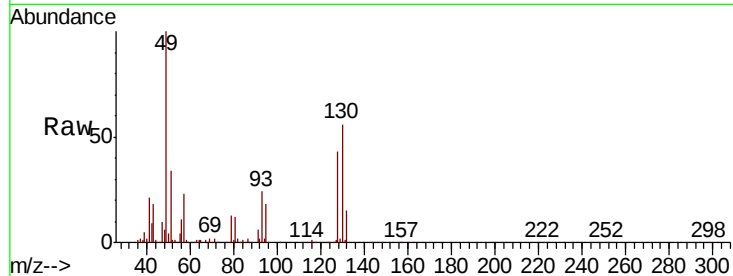




#25
Ethyl Acetate
Concen: 0.418 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. 0.00 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

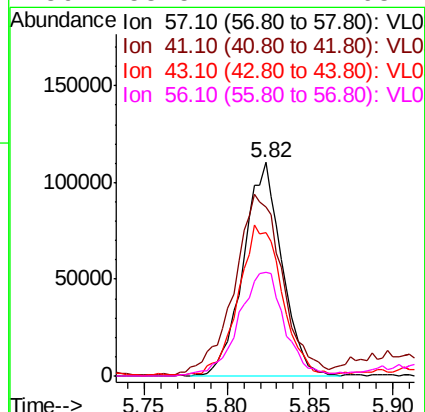
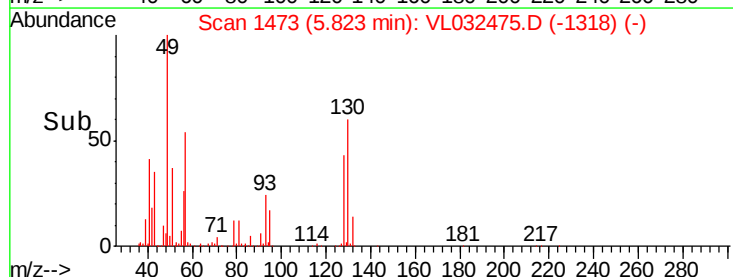
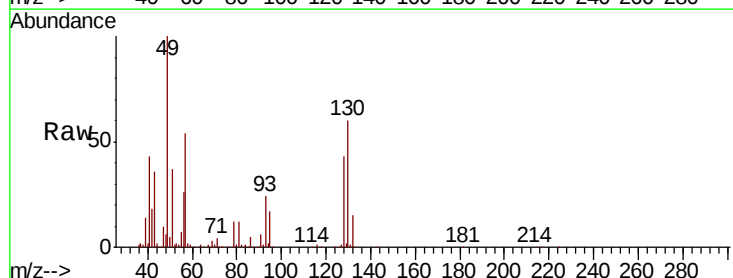
Instrument :
MSVOA_L
ClientSampleId :
VP-03

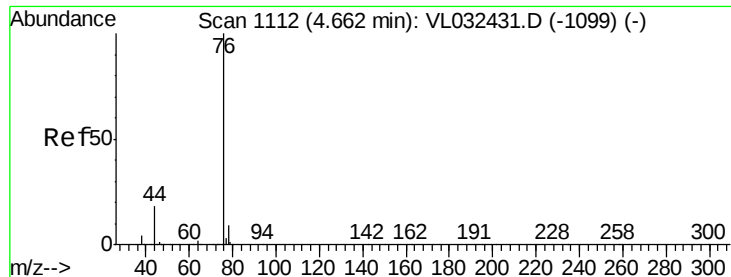
Tgt Ion:	43	Resp:	136205
Ion	Ratio	Lower	Upper
43	100		
45	1.9	8.0	12.0#
61	1.3	7.6	11.4#
70	3.5	5.8	8.8#



#26
Hexane
Concen: 1.212 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

Tgt Ion:	57	Resp:	176834
Ion	Ratio	Lower	Upper
57	100		
41	106.1	69.0	103.4#
43	79.7	172.1	258.1#
56	58.5	42.2	63.2

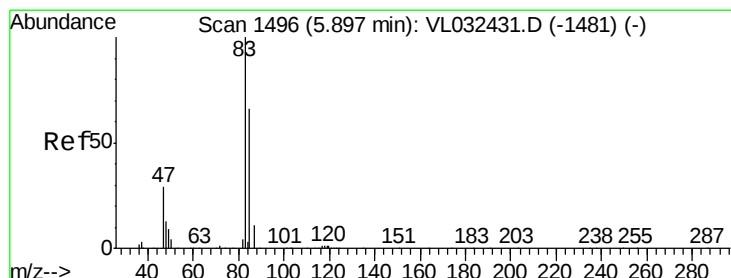
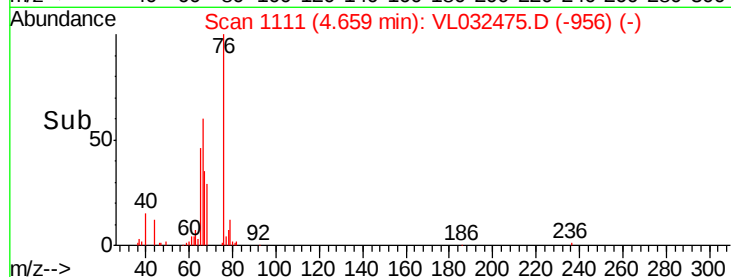
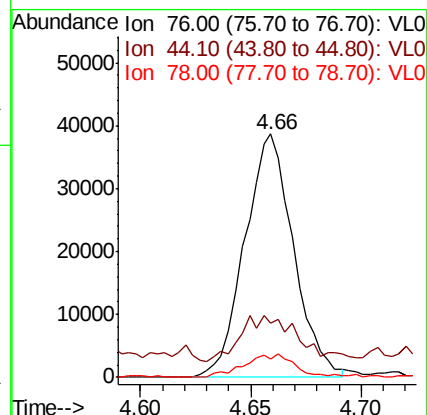
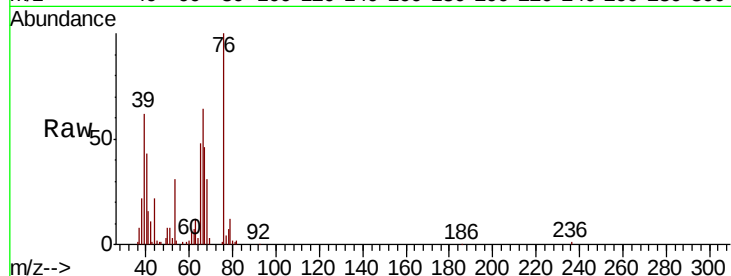




#27
Carbon Disulfide
Concen: 0.439 ppbv
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

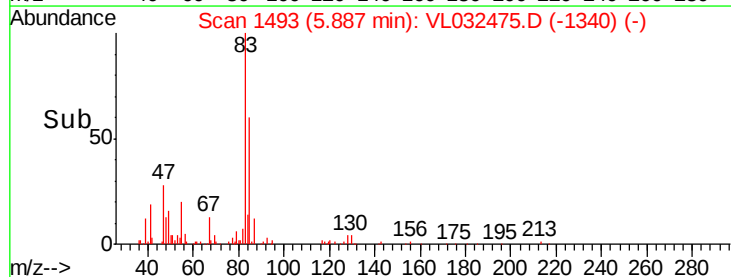
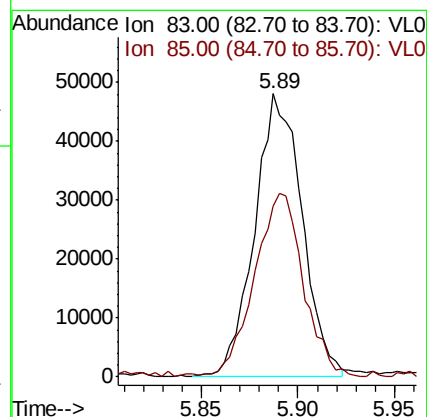
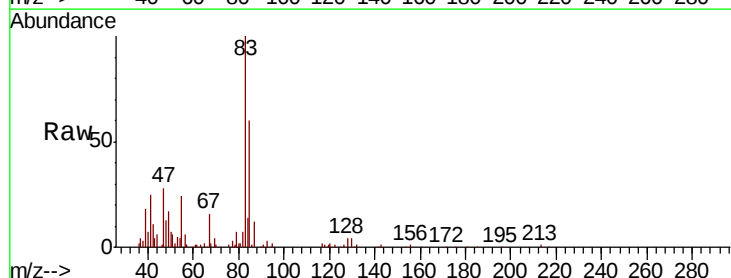
Instrument :
MSVOA_L
ClientSampleId :
VP-03

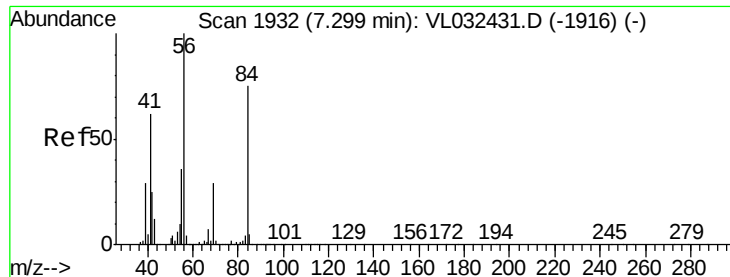
Tgt Ion	Ratio	Lower	Upper
76	100		
44	20.9	14.0	21.0
78	10.9	7.5	11.3



#29
Chloroform
Concen: 0.369 ppbv
RT: 5.89 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.5	52.5	78.7

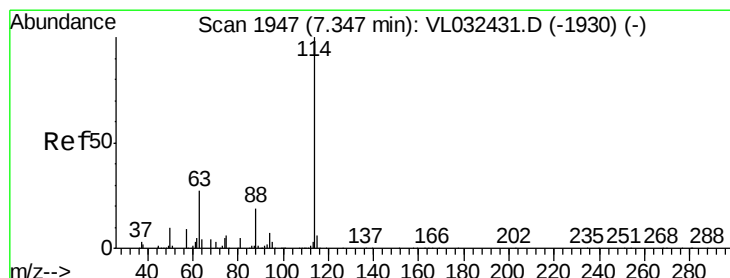
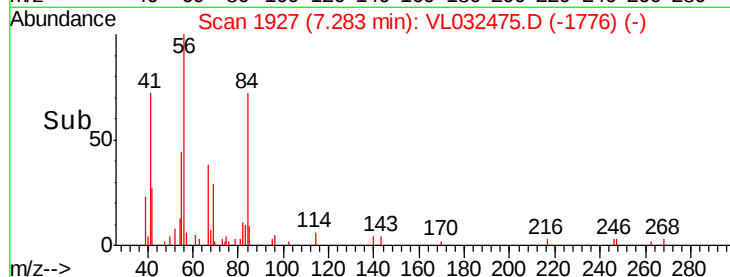
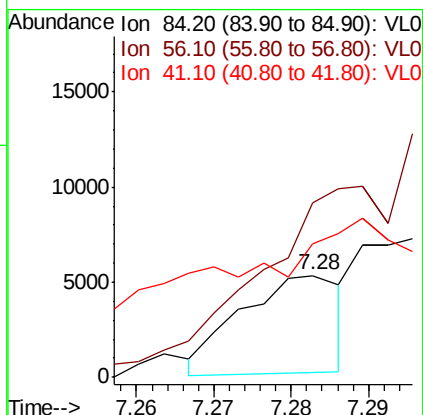
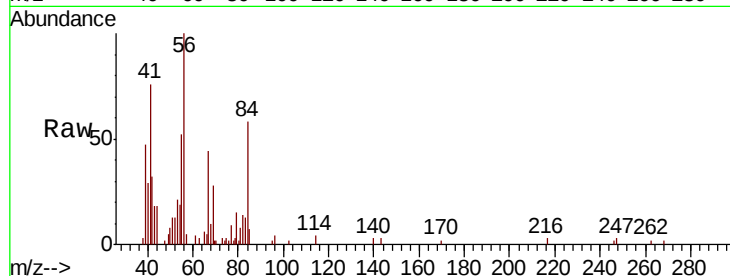




#30
Cyclohexane
Concen: 0.044 ppbv
RT: 7.28 min Scan# 1927
Delta R.T. -0.02 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

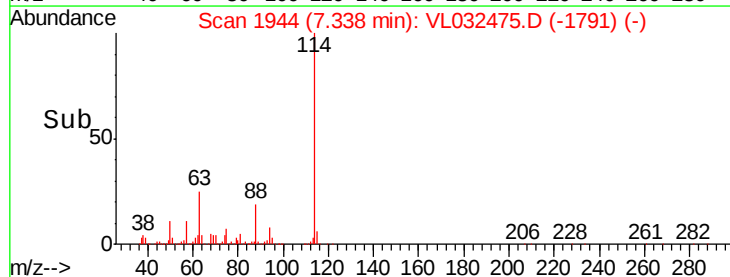
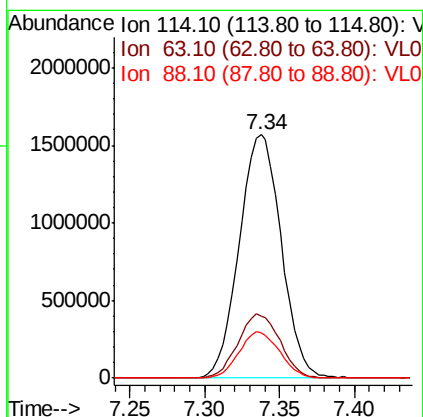
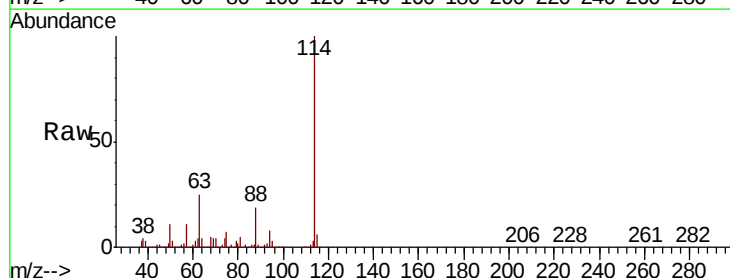
Instrument :
MSVOA_L
ClientSampleId :
VP-03

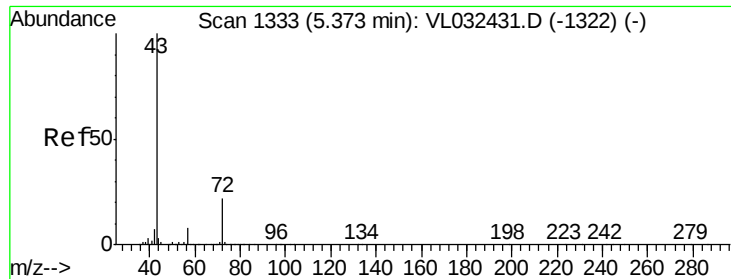
Tgt Ion: 84 Resp: 4663
Ion Ratio Lower Upper
84 100
56 0.0 113.5 170.3#
41 375.2 68.1 102.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.01 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

Tgt Ion: 114 Resp: 3064440
Ion Ratio Lower Upper
114 100
63 26.6 22.2 33.4
88 18.5 15.0 22.4

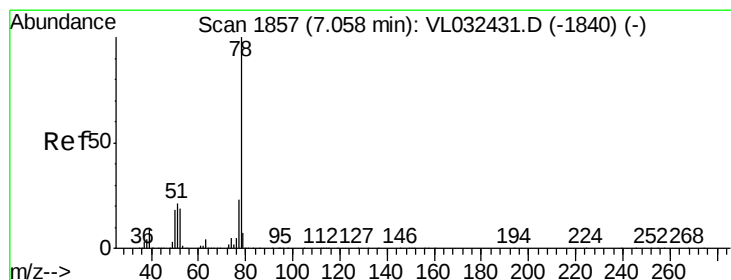
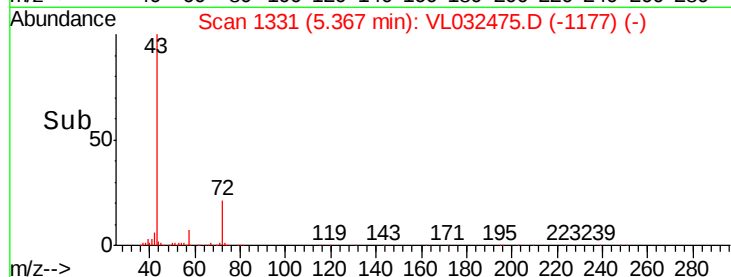
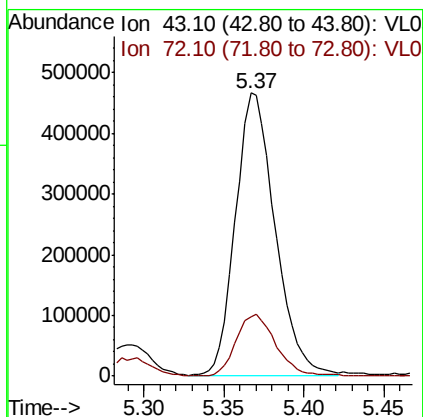
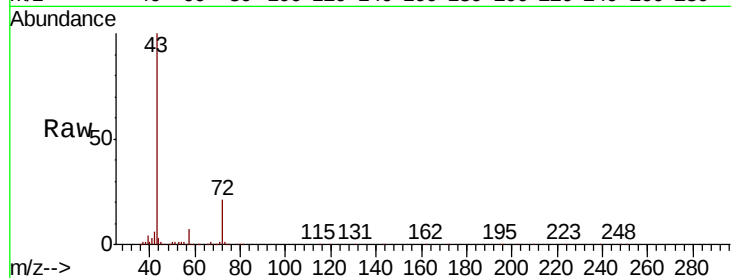




#34
2-Butanone
Concen: 3.842 ppbv
RT: 5.37 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

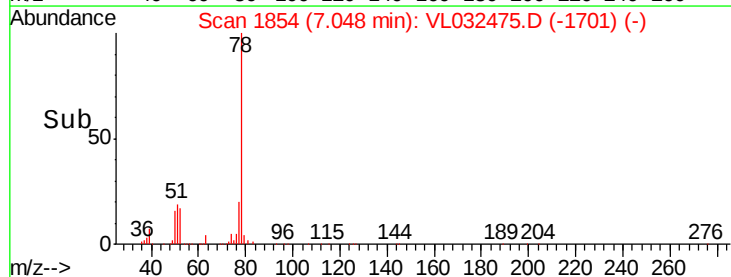
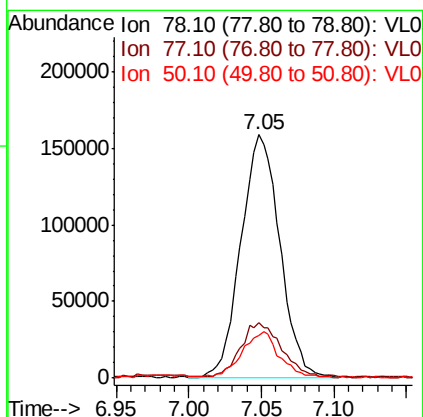
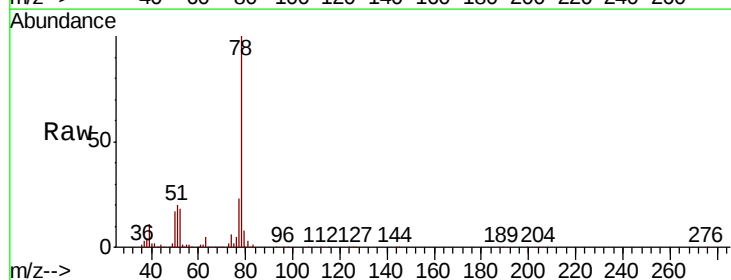
Instrument :
MSVOA_L
ClientSampled :
VP-03

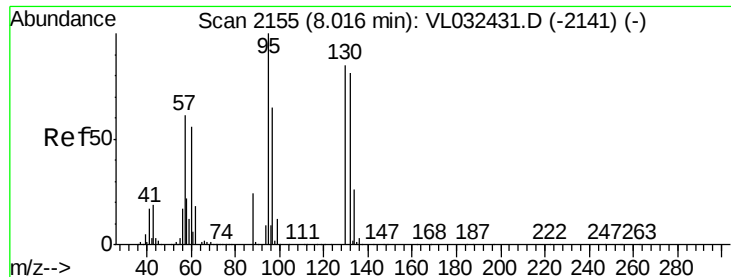
Tgt Ion: 43 Resp: 781949
Ion Ratio Lower Upper
43 100
72 21.7 17.8 26.6



#36
Benzene
Concen: 1.134 ppbv
RT: 7.05 min Scan# 1854
Delta R.T. -0.01 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

Tgt Ion: 78 Resp: 295634
Ion Ratio Lower Upper
78 100
77 22.0 18.4 27.6
50 17.0 14.4 21.6

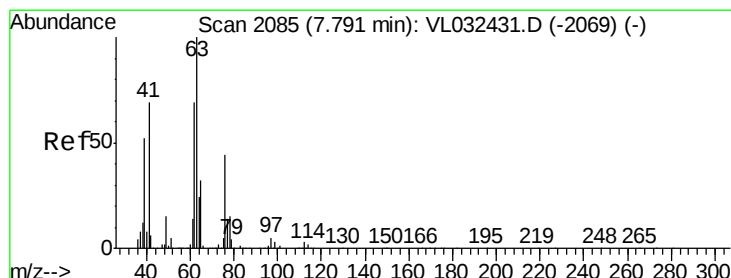
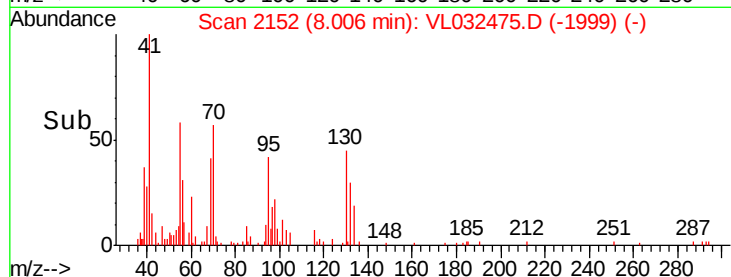
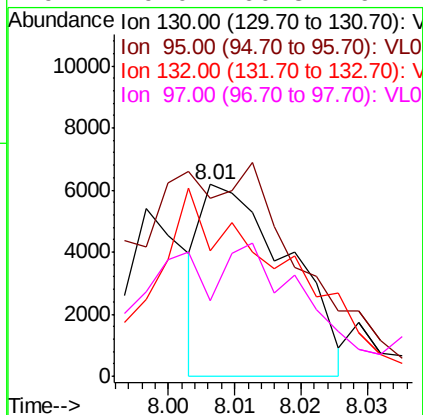
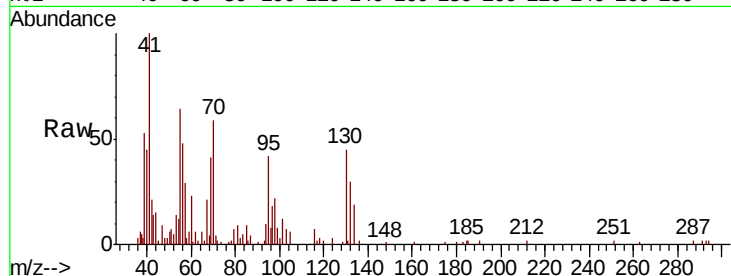




#38
 Trichloroethene
 Concen: 0.056 ppbv
 RT: 8.01 min Scan# 2152
 Delta R.T. -0.01 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

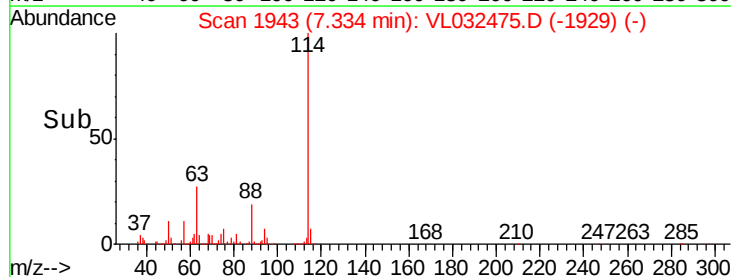
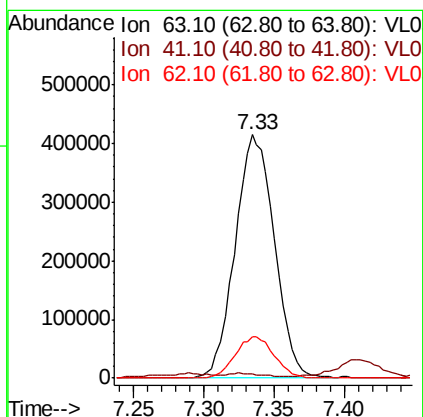
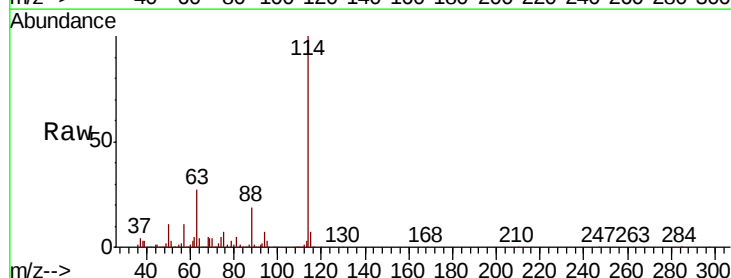
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03

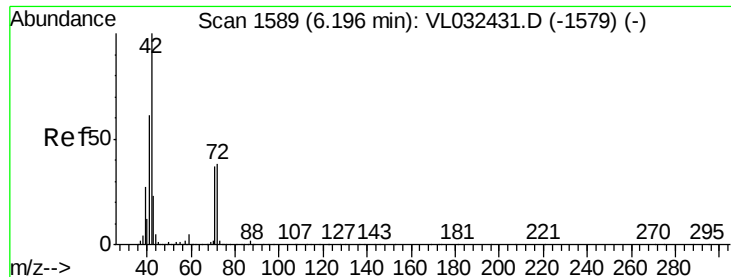
Tgt Ion:130 Resp: 5592
 Ion Ratio Lower Upper
 130 100
 95 68.9 94.2 141.4#
 132 26.4 76.2 114.4#
 97 19.0 60.8 91.2#



#39
 1,2-Dichloropropane
 Concen: 7.226 ppbv
 RT: 7.33 min Scan# 1943
 Delta R.T. -0.46 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

Tgt Ion: 63 Resp: 806271
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.4 83.0#
 62 16.8 55.4 83.0#





#41

Tetrahydrofuran

Concen: 0.234 ppbv

RT: 6.21 min Scan# 1592

Delta R.T. 0.01 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Instrument :

MSVOA_L

ClientSampleId :

VP-03

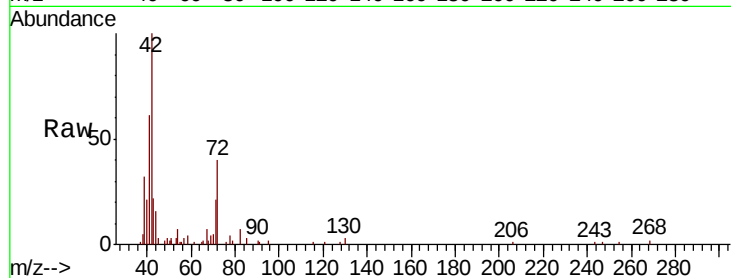
Tgt Ion: 42 Resp: 25952

Ion Ratio Lower Upper

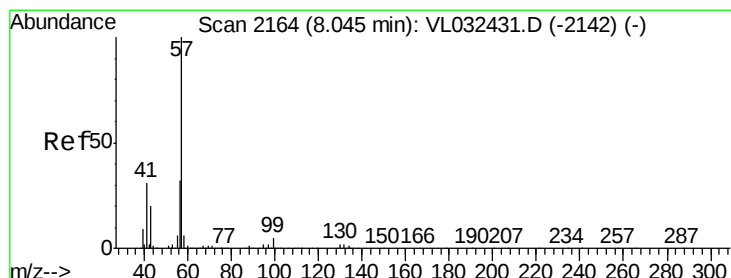
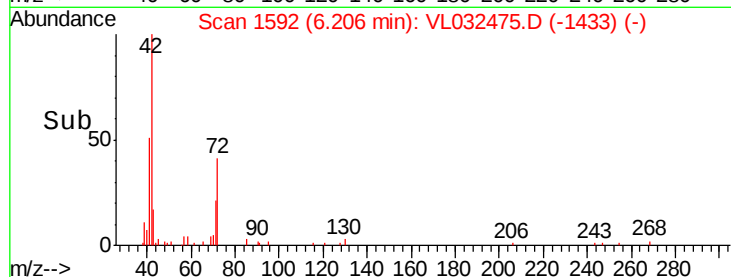
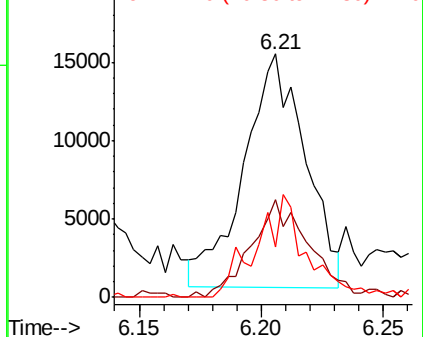
42 100

72 41.2 29.5 44.3

71 37.0 28.3 42.5



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



#44

2,2,4-Trimethylpentane

Concen: 0.123 ppbv

RT: 8.04 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

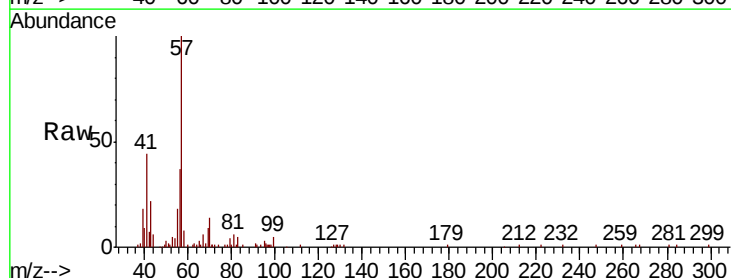
Tgt Ion: 57 Resp: 61893

Ion Ratio Lower Upper

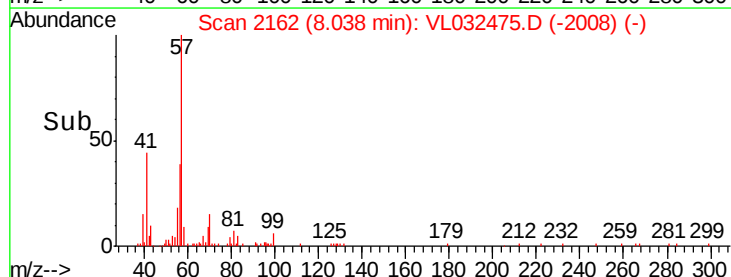
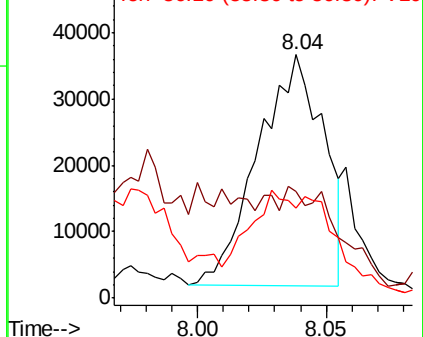
57 100

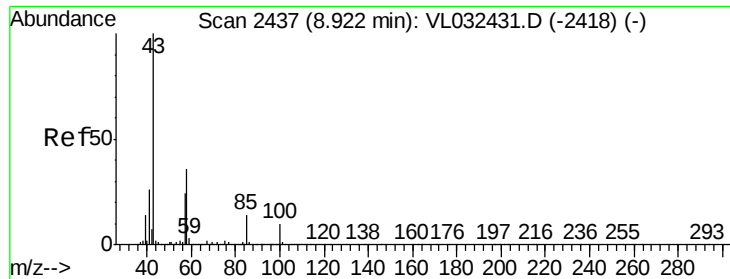
41 89.0 24.4 36.6#

56 70.3 25.7 38.5#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

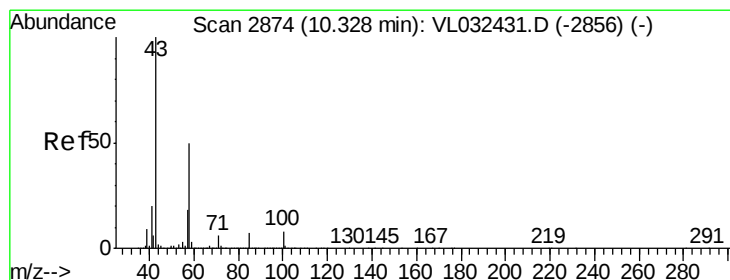
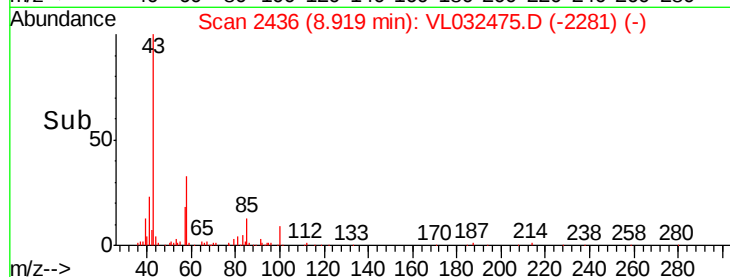
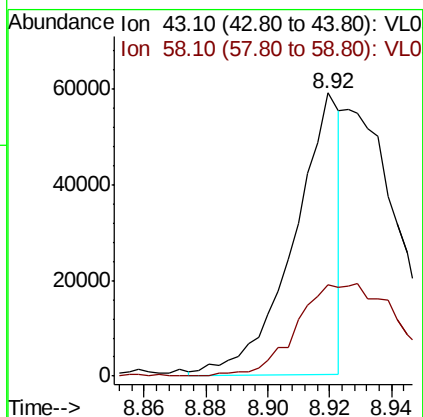
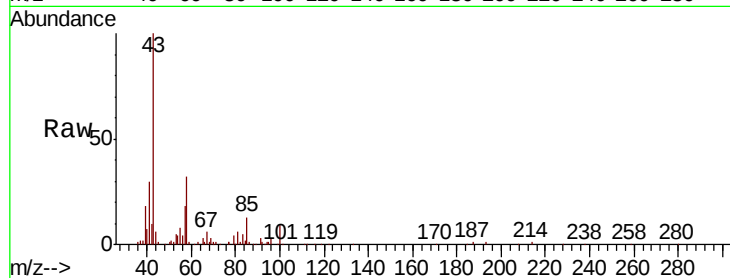




#50
4-Methyl-2-Pentanone
Concen: 0.199 ppbv
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

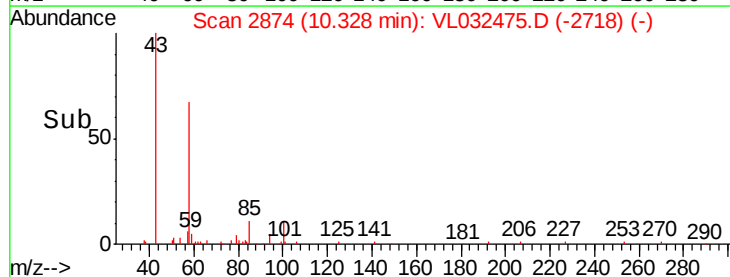
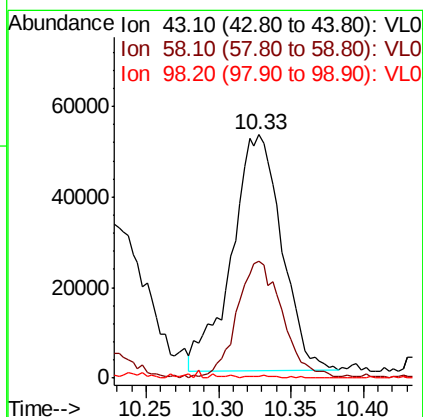
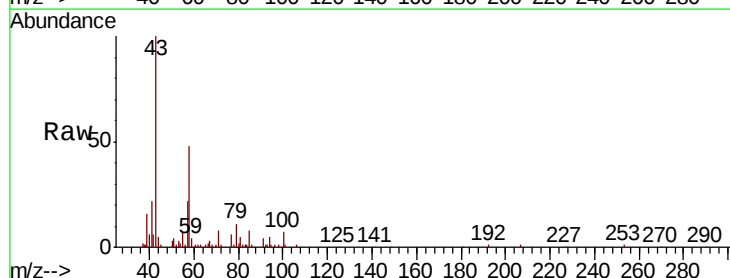
Instrument :
MSVOA_L
ClientSampleId :
VP-03

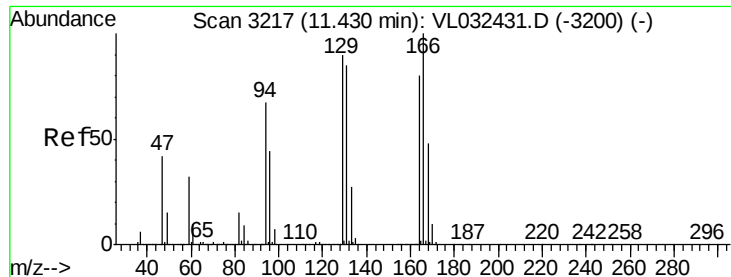
Tgt Ion: 43 Resp: 61133
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.4#



#51
2-Hexanone
Concen: 0.634 ppbv
RT: 10.33 min Scan# 2874
Delta R.T. 0.00 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

Tgt Ion: 43 Resp: 125249
Ion Ratio Lower Upper
43 100
58 44.6 39.2 58.8
98 1.2 0.4 0.6#





#52

Tetrachloroethene

Concen: 3.640 ppbv

RT: 11.42 min Scan# 3215

Delta R.T. -0.01 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Instrument :

MSVOA_L

ClientSampleId :

VP-03

Tgt Ion:164 Resp: 294347

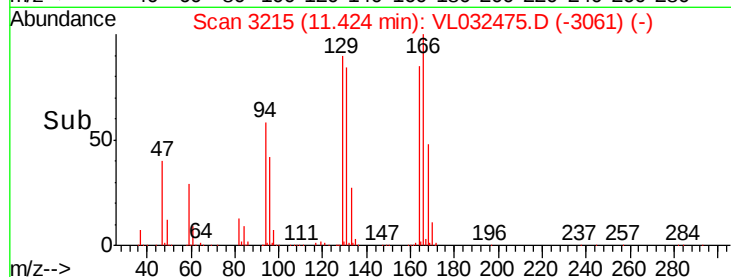
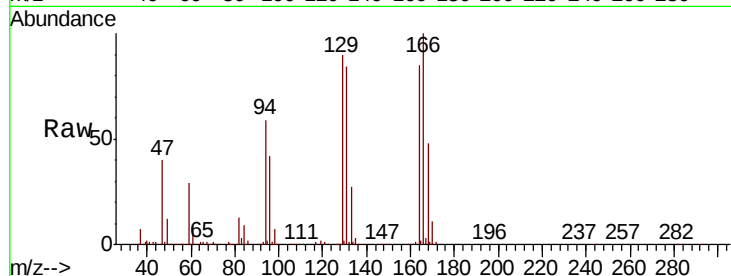
Ion Ratio Lower Upper

164 100

166 117.6 100.6 150.8

129 106.3 89.9 134.9

131 98.7 85.9 128.9



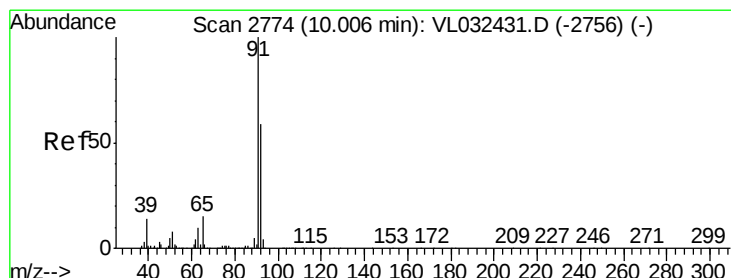
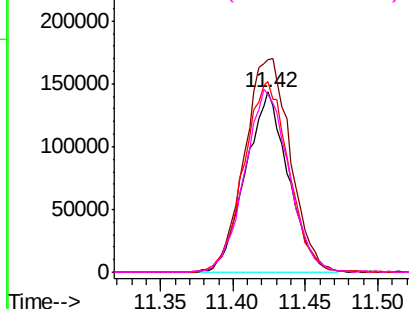
Abundance

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: 4.580 ppbv

RT: 10.00 min Scan# 2771

Delta R.T. -0.01 min

Lab File: VL032475.D

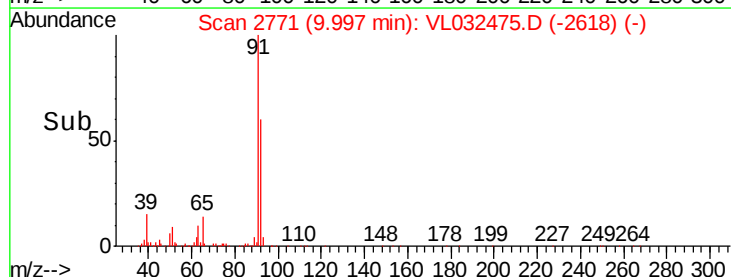
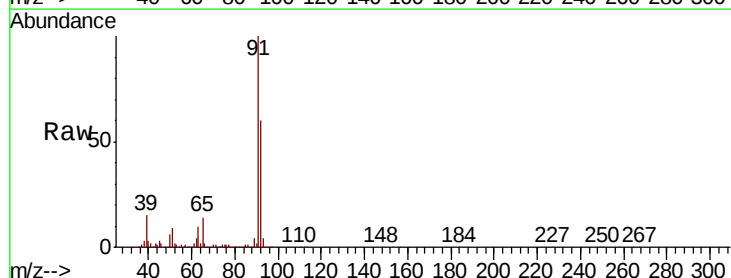
Acq: 6 Sep 2018 3:50

Tgt Ion: 91 Resp: 1248360

Ion Ratio Lower Upper

91 100

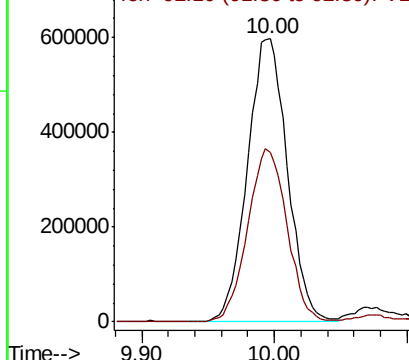
92 60.1 48.1 72.1

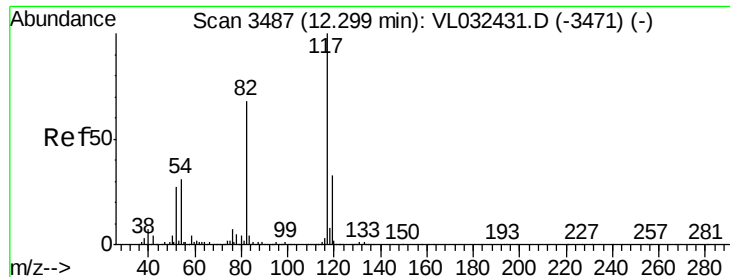


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

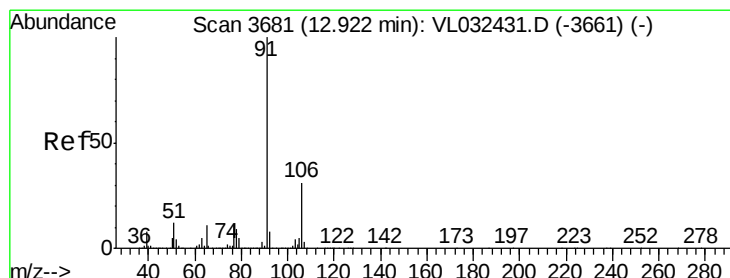
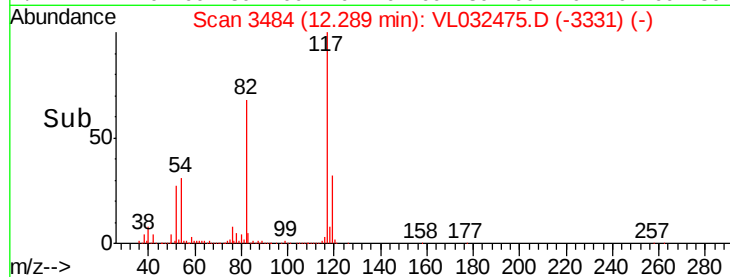
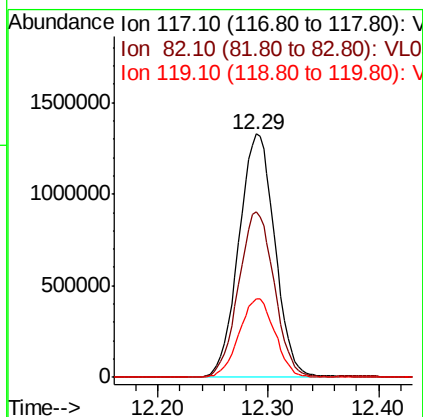
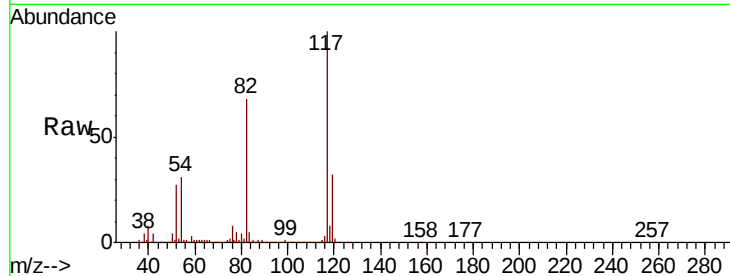




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3484
Delta R.T. -0.01 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

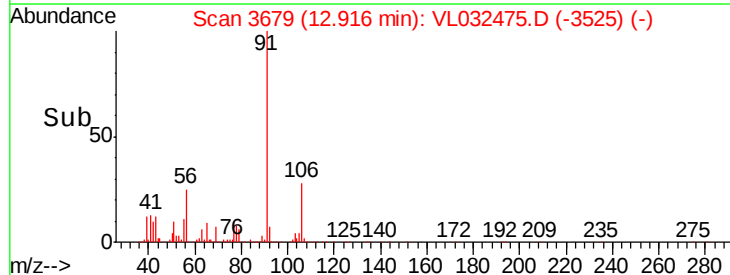
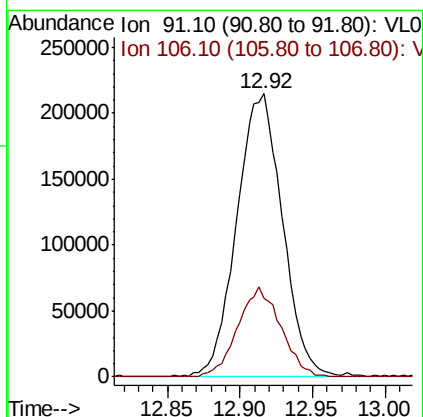
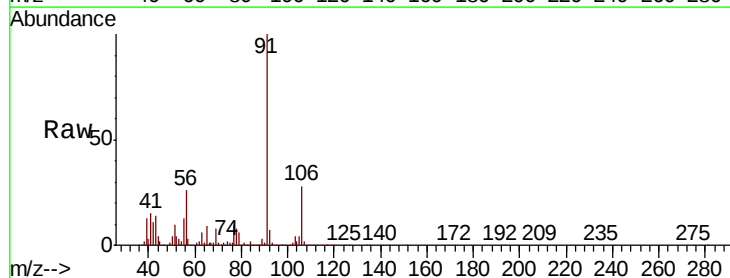
Instrument :
MSVOA_L
ClientSampleId :
VP-03

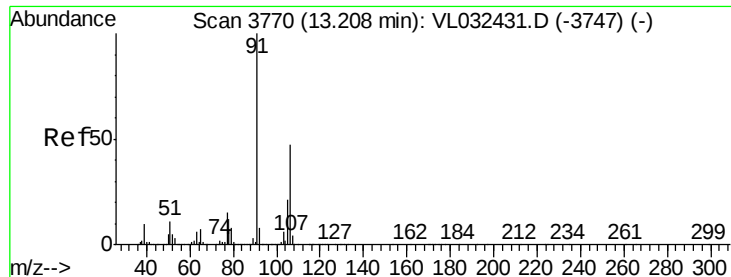
Tgt Ion: 117 Resp: 3003299
Ion Ratio Lower Upper
117 100
82 67.4 53.0 79.6
119 32.3 45.9 68.9#



#58
Ethyl Benzene
Concen: 1.296 ppbv
RT: 12.92 min Scan# 3679
Delta R.T. -0.01 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

Tgt Ion: 91 Resp: 465860
Ion Ratio Lower Upper
91 100
106 27.9 24.8 37.2

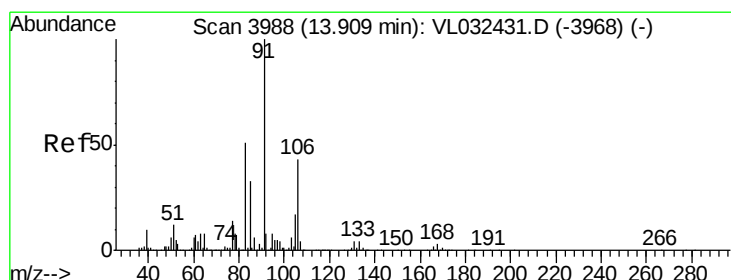
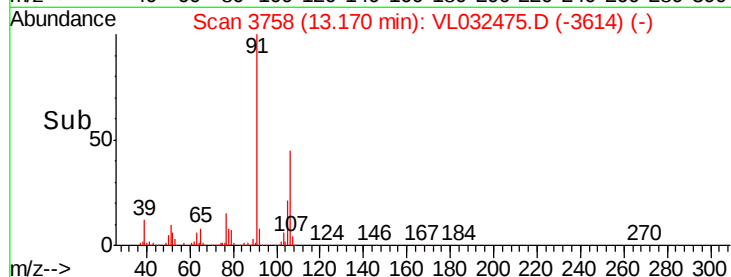
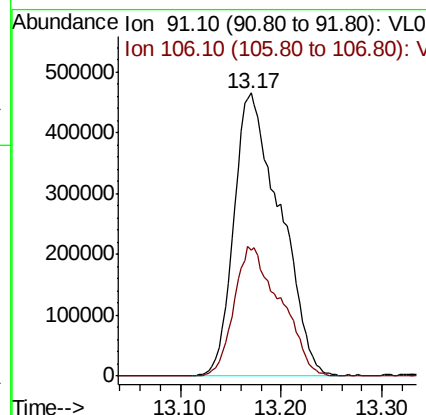
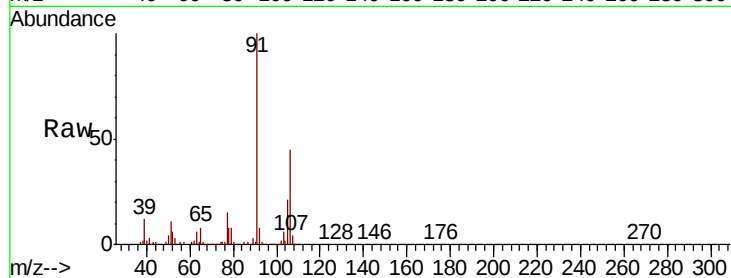




#59
m/p-Xylene
Concen: 4.600 ppbv
RT: 13.17 min Scan# 3758
Delta R.T. -0.04 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

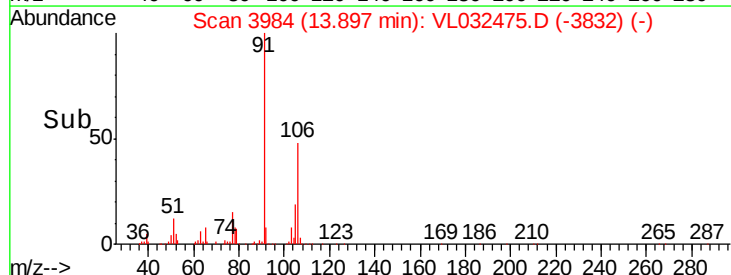
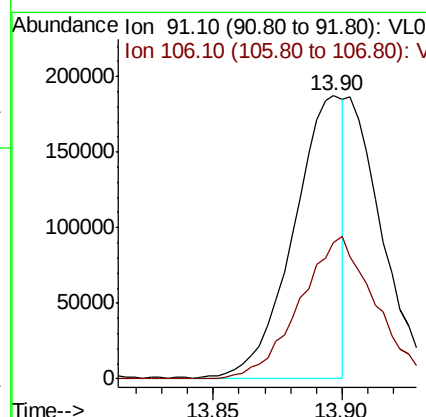
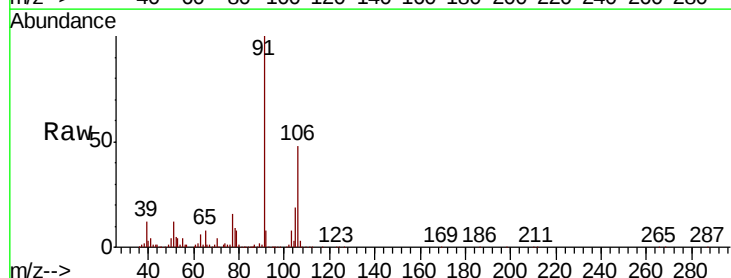
Instrument :
MSVOA_L
ClientSampleId :
VP-03

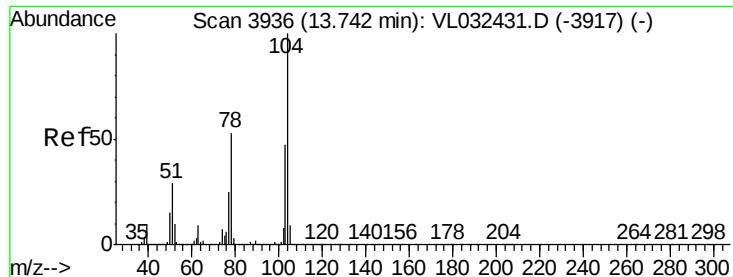
Tgt Ion: 91 Resp: 1473955
Ion Ratio Lower Upper
91 100
106 46.2 36.6 55.0



#60
o-Xylene
Concen: 0.796 ppbv
RT: 13.90 min Scan# 3984
Delta R.T. -0.01 min
Lab File: VL032475.D
Acq: 6 Sep 2018 3:50

Tgt Ion: 91 Resp: 250657
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.7#





#61

Styrene

Concen: 0.156 ppbv

RT: 13.73 min Scan# 3933

Delta R.T. -0.01 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Instrument :

MSVOA_L

ClientSampleId :

VP-03

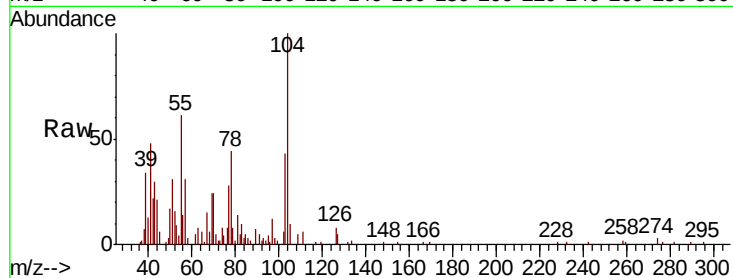
Tgt Ion:104 Resp: 31749

Ion Ratio Lower Upper

104 100

78 58.8 41.8 62.8

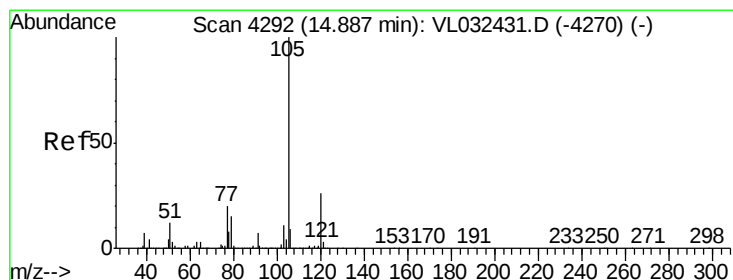
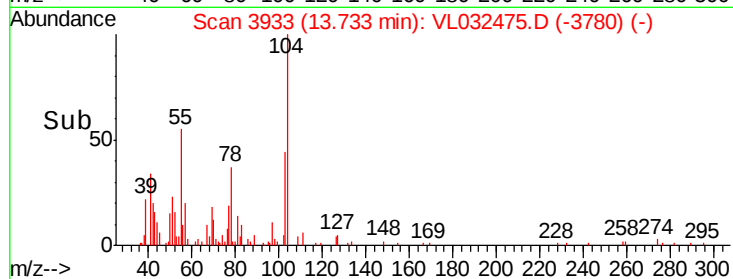
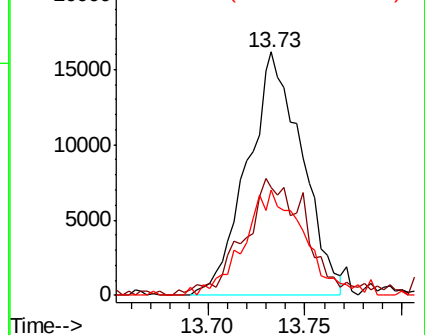
103 48.3 38.0 57.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.076 ppbv

RT: 14.87 min Scan# 4288

Delta R.T. -0.01 min

Lab File: VL032475.D

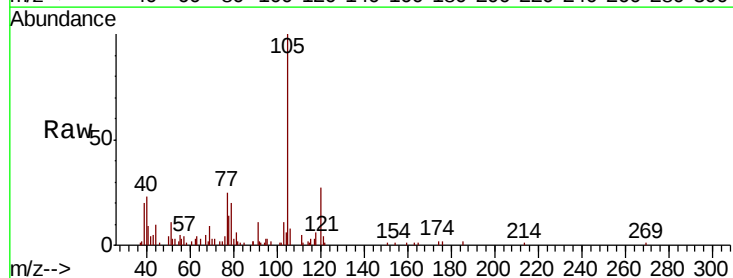
Acq: 6 Sep 2018 3:50

Tgt Ion:105 Resp: 33590

Ion Ratio Lower Upper

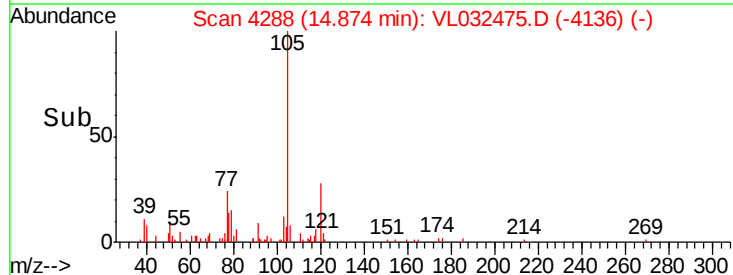
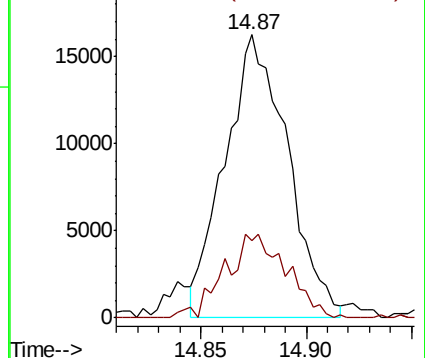
105 100

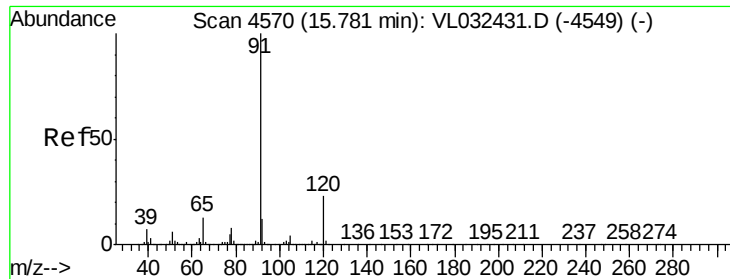
120 29.1 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.177 ppbv

RT: 15.76 min Scan# 4565

Delta R.T. -0.02 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Instrument :

MSVOA_L

ClientSampleId :

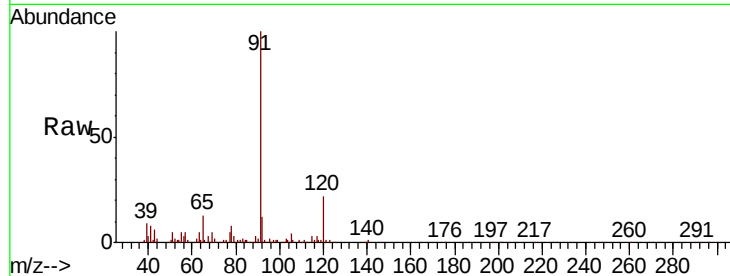
VP-03

Tgt Ion:120 Resp: 20474

Ion Ratio Lower Upper

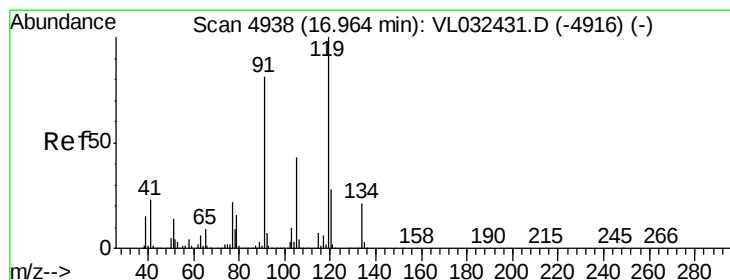
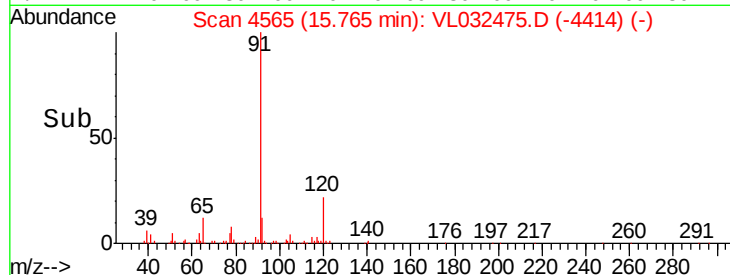
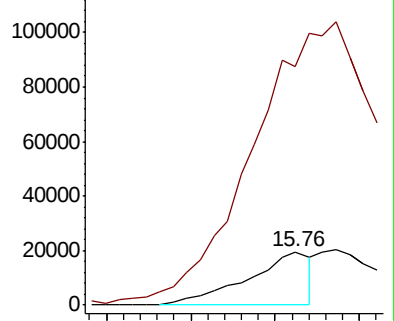
120 100

91 0.0 381.8 572.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.111 ppbv

RT: 16.97 min Scan# 4941

Delta R.T. 0.01 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

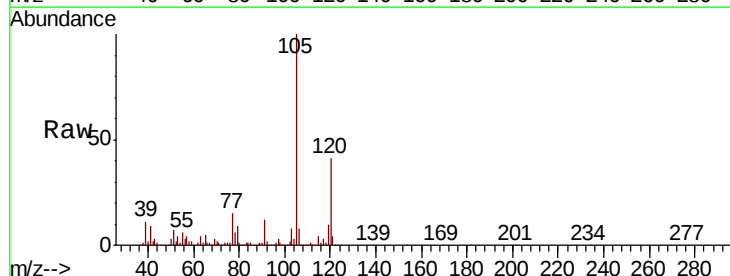
Tgt Ion:119 Resp: 42326

Ion Ratio Lower Upper

119 100

91 204.7 66.5 99.7#

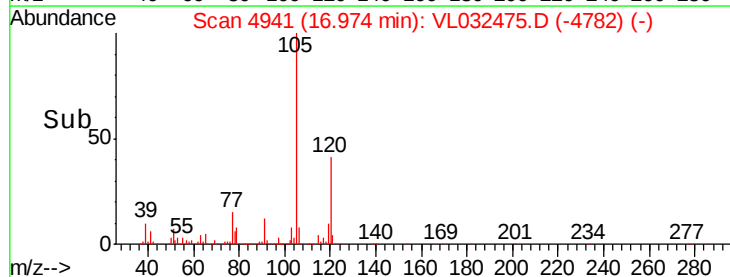
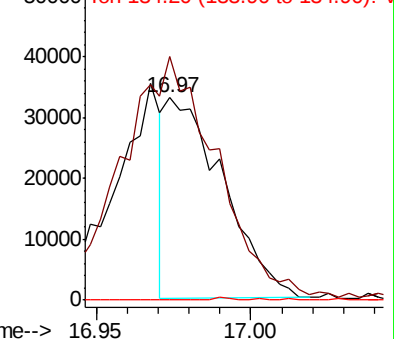
134 0.0 16.0 24.0#

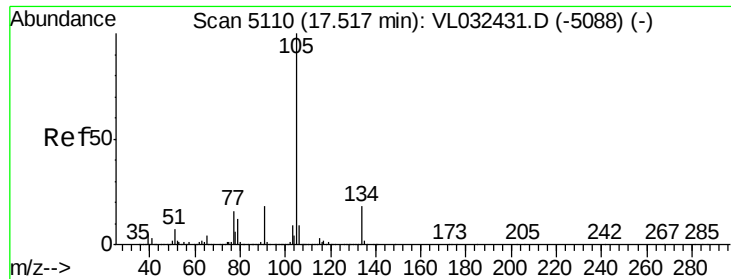


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.044 ppbv

RT: 17.51 min Scan# 5107

Delta R.T. -0.01 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Instrument :

MSVOA_L

ClientSampleId :

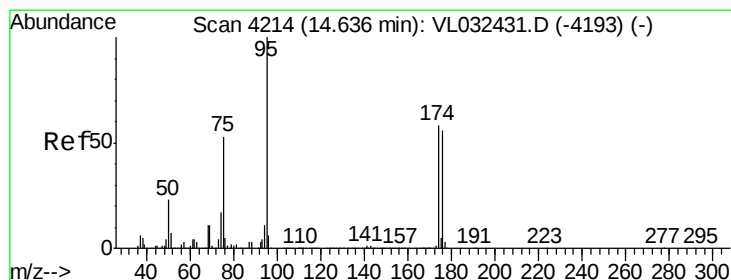
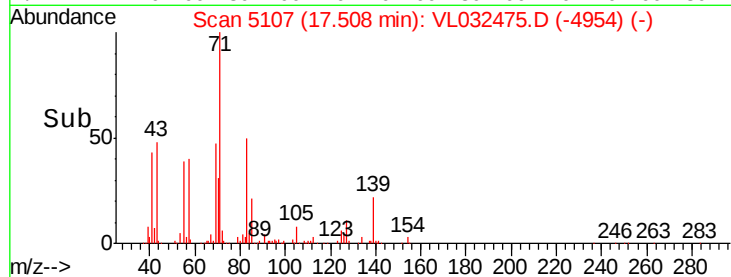
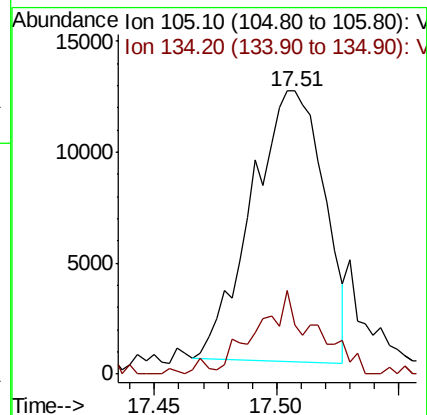
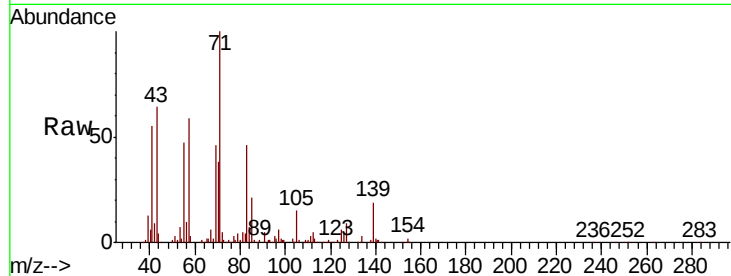
VP-03

Tgt Ion: 105 Resp: 25145

Ion Ratio Lower Upper

105 100

134 26.3 14.4 21.6#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.297 ppbv

RT: 14.63 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

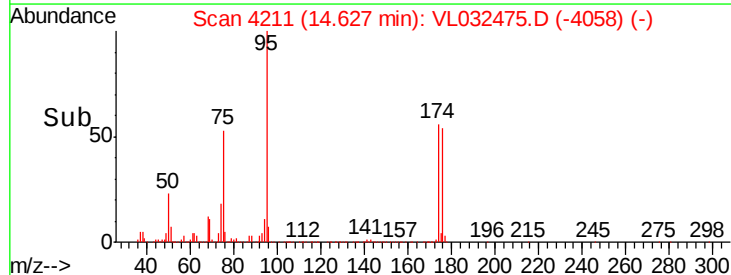
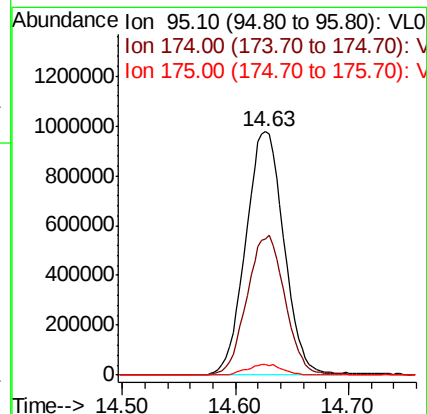
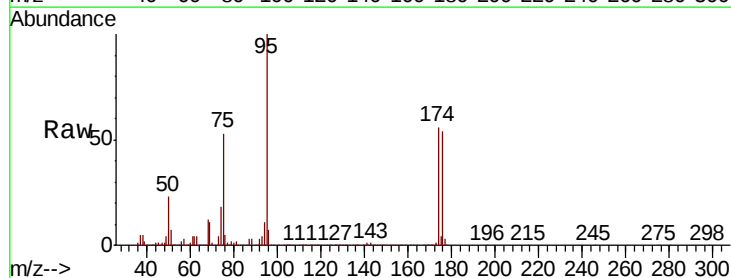
Tgt Ion: 95 Resp: 2295988

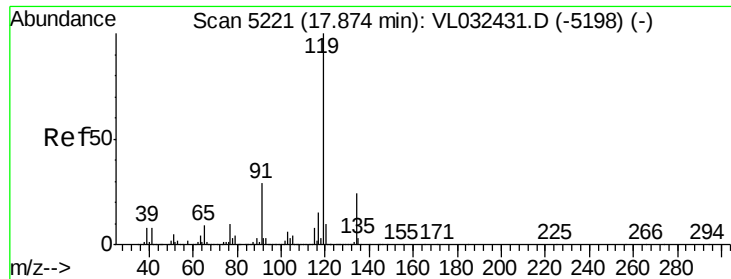
Ion Ratio Lower Upper

95 100

174 57.1 46.3 69.5

175 4.2 3.4 5.0

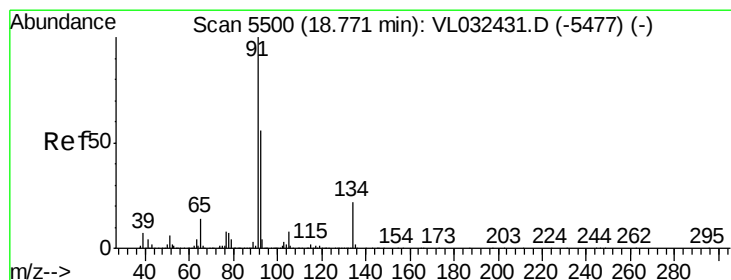
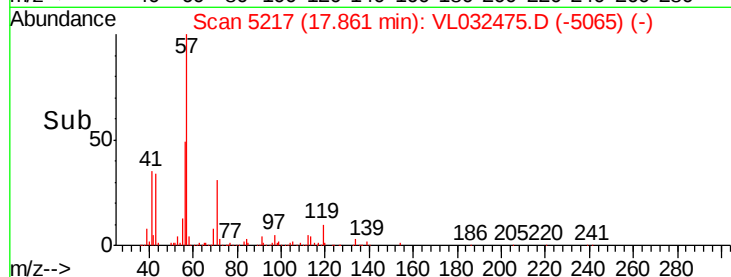
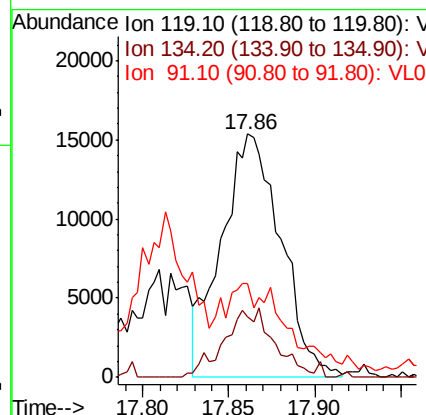
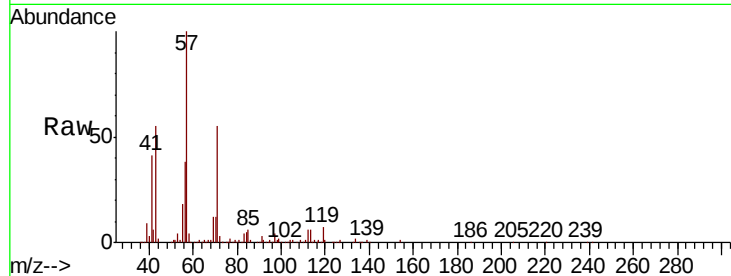




#69
 p-Isopropyltoluene
 Concen: 0.083 ppbv
 RT: 17.86 min Scan# 5217
 Delta R.T. -0.01 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

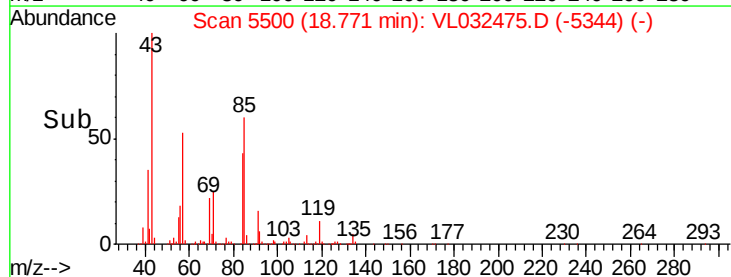
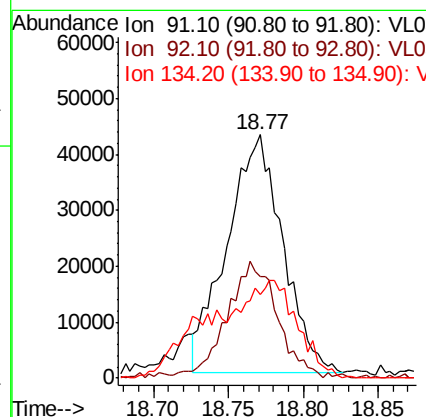
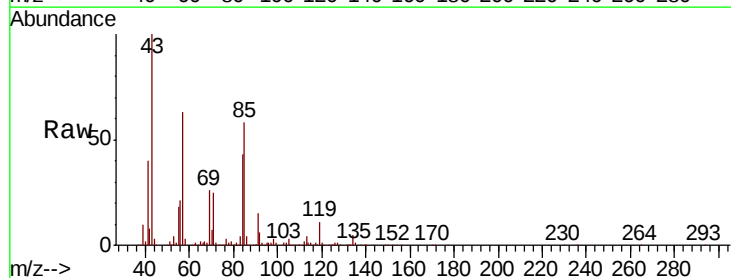
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03

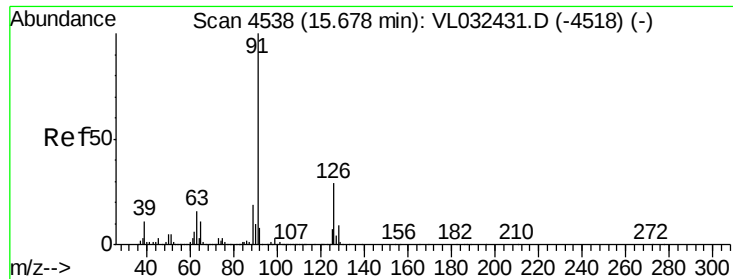
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.2	20.4	30.6
91	35.2	23.4	35.2#



#70
 n-Butylbenzene
 Concen: 0.220 ppbv
 RT: 18.77 min Scan# 5500
 Delta R.T. 0.00 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	45.6	43.8	65.8
134	63.7	17.4	26.0#

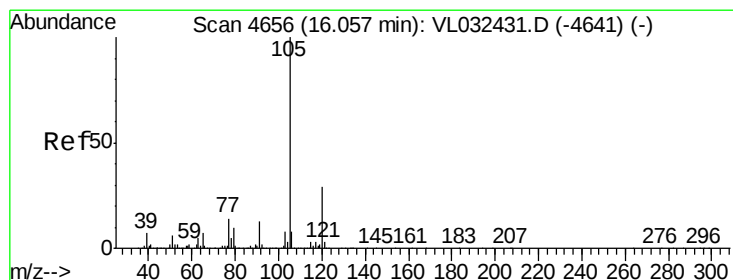
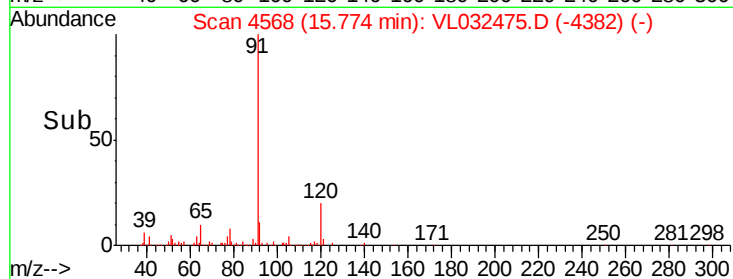
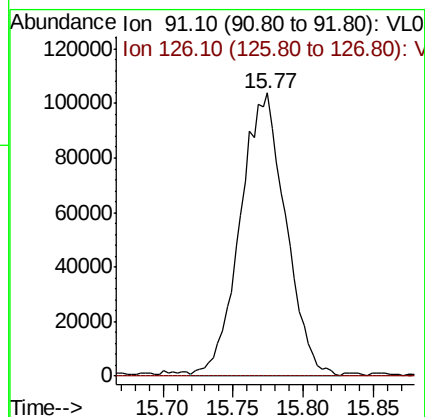
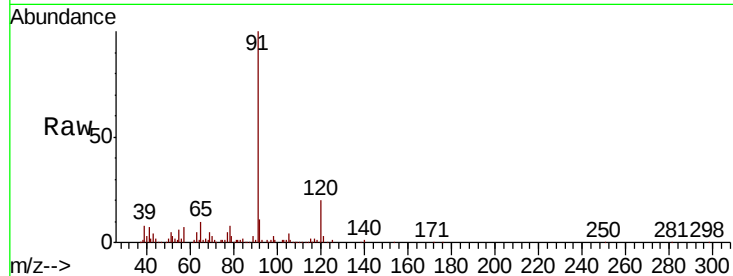




#71
 2-Chlorotoluene
 Concen: 0.688 ppbv
 RT: 15.77 min Scan# 4568
 Delta R.T. 0.10 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

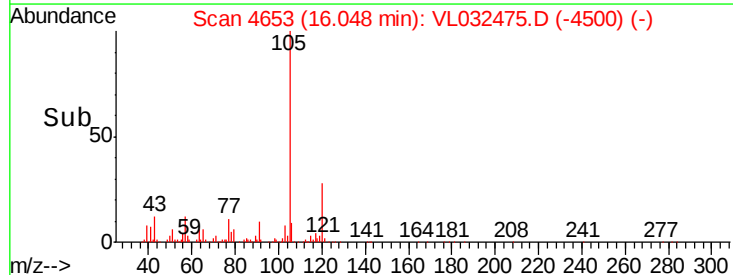
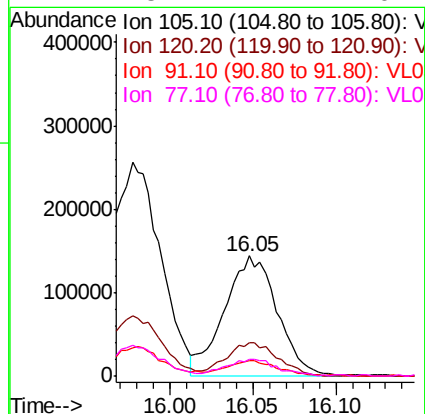
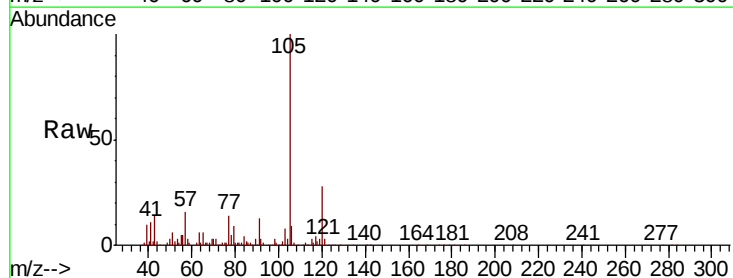
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03

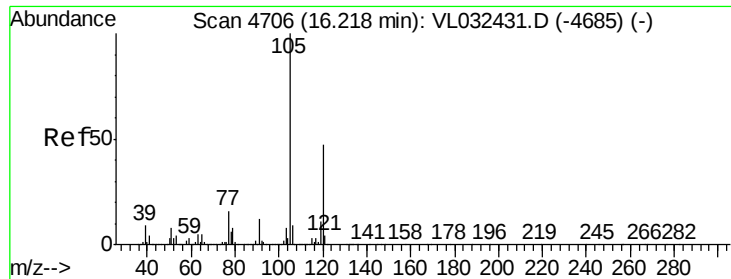
Tgt Ion: 91 Resp: 232491
 Ion Ratio Lower Upper
 91 100
 126 0.1 11.9 47.7#



#72
 4-Ethyltoluene
 Concen: 0.918 ppbv
 RT: 16.05 min Scan# 4653
 Delta R.T. -0.01 min
 Lab File: VL032475.D
 Acq: 6 Sep 2018 3:50

Tgt Ion: 105 Resp: 315468
 Ion Ratio Lower Upper
 105 100
 120 27.4 23.5 35.3
 91 12.5 10.2 15.2
 77 13.7 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.330 ppbv

RT: 16.20 min Scan# 4701

Delta R.T. -0.02 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Instrument :

MSVOA_L

ClientSampleId :

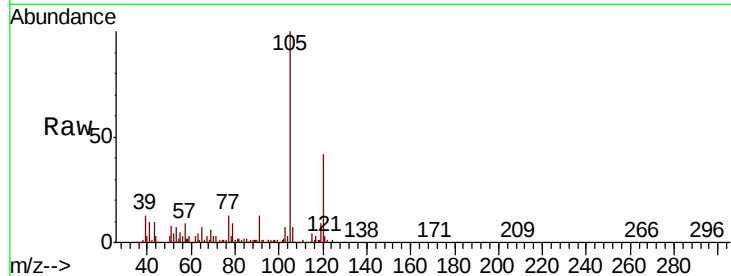
VP-03

Tgt Ion:105 Resp: 113494

Ion Ratio Lower Upper

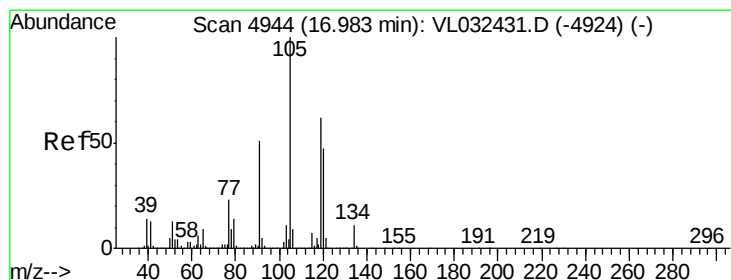
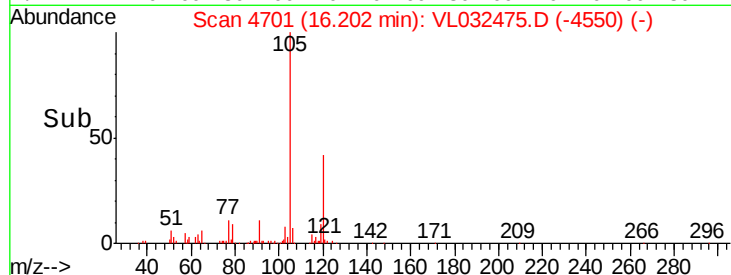
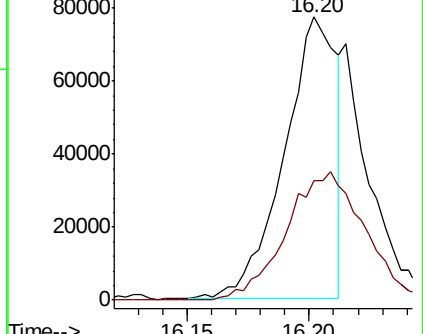
105 100

120 42.5 37.9 56.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.941 ppbv

RT: 16.97 min Scan# 4941

Delta R.T. -0.01 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Tgt Ion:105 Resp: 730523

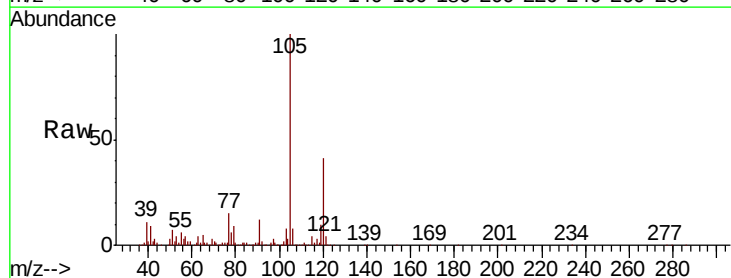
Ion Ratio Lower Upper

105 100

120 40.5 37.8 56.8

91 11.9 41.4 62.0#

77 14.7 18.6 28.0#

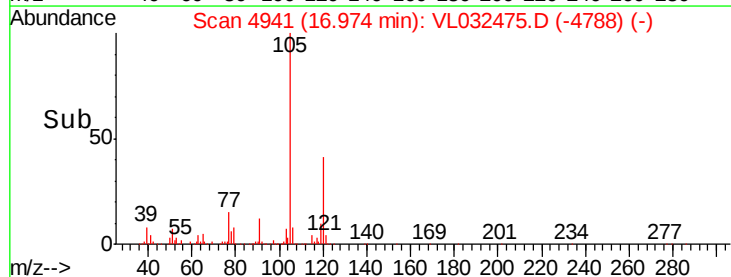
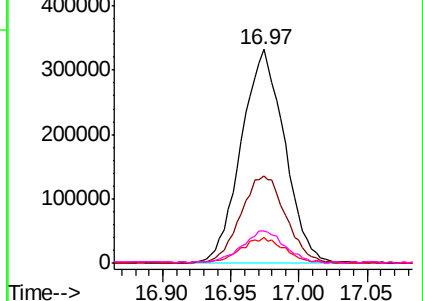


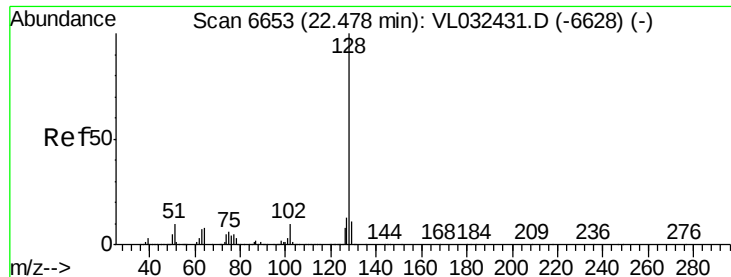
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#79

Naphthalene

Concen: 0.302 ppbv

RT: 22.47 min Scan# 6650

Delta R.T. -0.01 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Instrument :

MSVOA_L

ClientSampleId :

VP-03

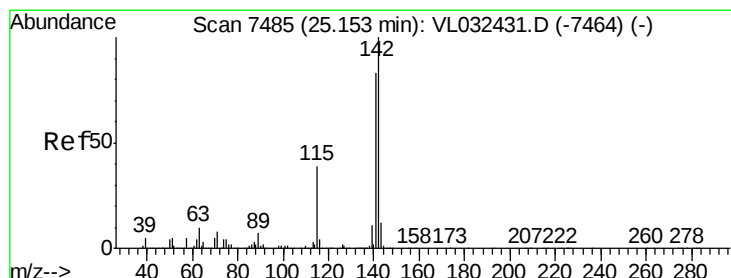
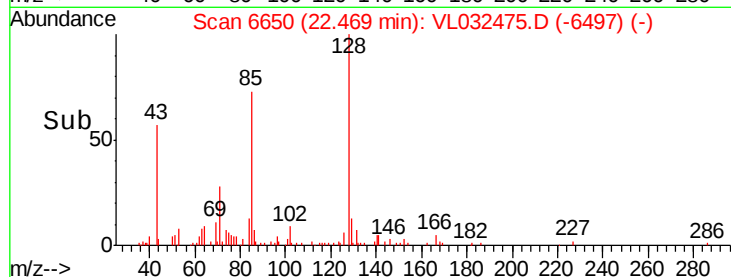
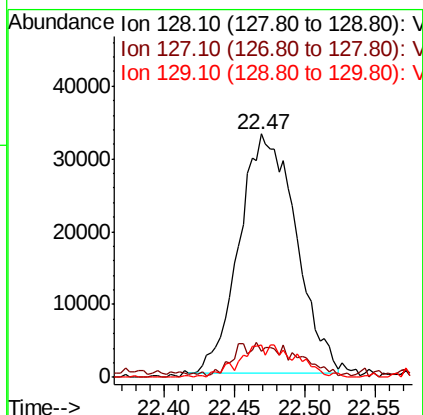
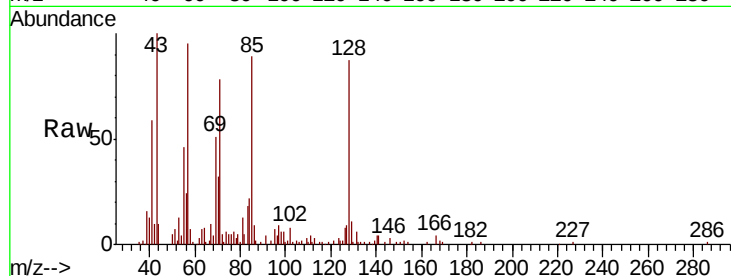
Tgt Ion:128 Resp: 92453

Ion Ratio Lower Upper

128 100

127 10.3 10.2 15.2

129 12.8 8.5 12.7#



#80

Naphthalene, 2-methyl-

Concen: 0.206 ppbv

RT: 25.16 min Scan# 7486

Delta R.T. 0.00 min

Lab File: VL032475.D

Acq: 6 Sep 2018 3:50

Tgt Ion:142 Resp: 16775

Ion Ratio Lower Upper

142 100

141 104.2 67.0 100.6#

115 63.9 31.3 46.9#

