

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL090518\
 Data File : VL032462.D
 Acq On : 5 Sep 2018 18:13
 Operator : SY/AP
 Sample : J4805-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3DL

Quant Time: Sep 06 05:00:26 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	1737642	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.33	114	3369155	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.29	117	3295665	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2546630	10.41	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

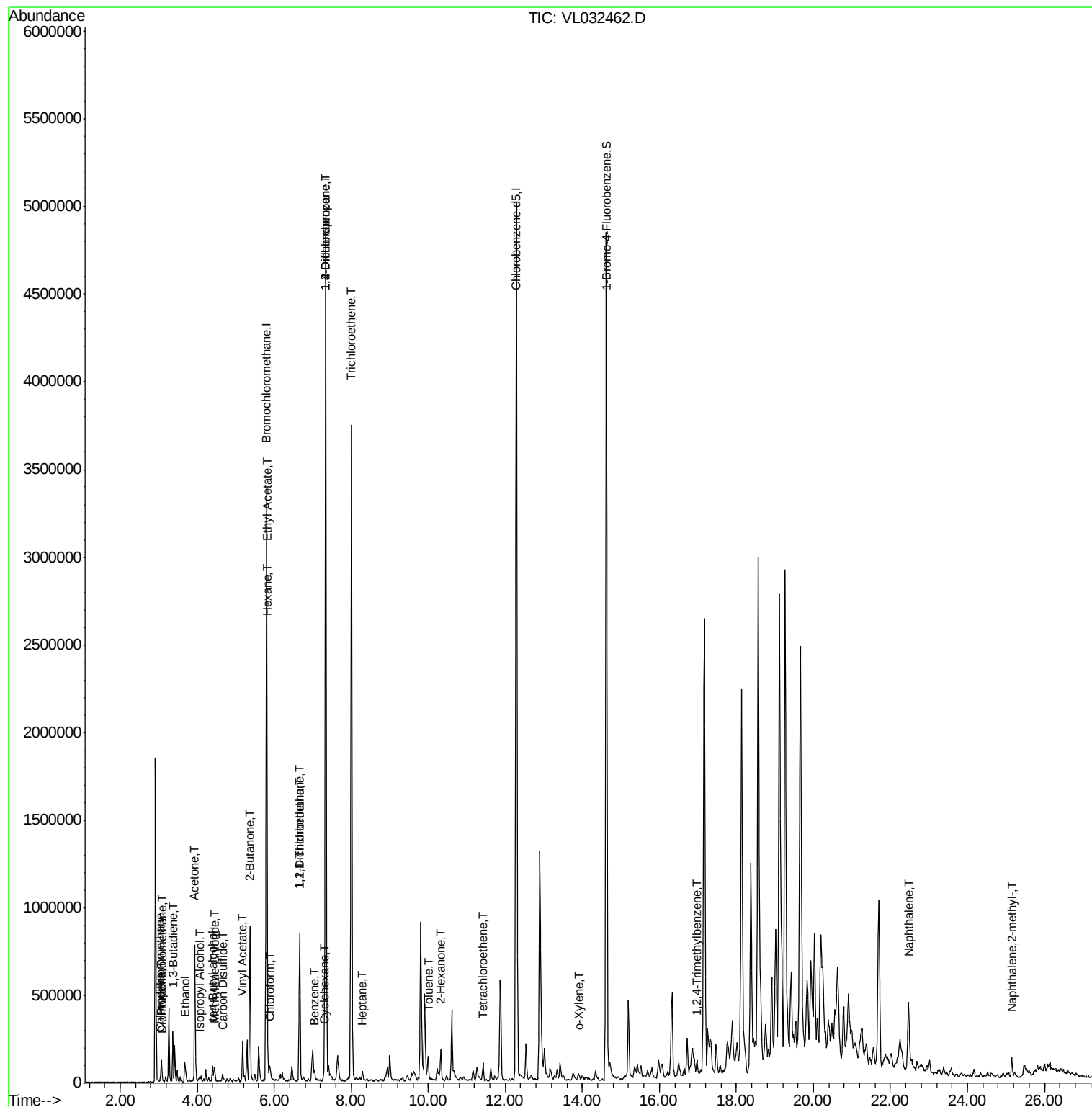
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	6744	0.030	ppbv	89
3) Chlorodifluoromethane	3.04	51	8088	0.051	ppbv	95
9) Propene	3.06	41	16857	0.266	ppbv #	17
10) Heptane	8.29	43	16661	0.073	ppbv	86
13) Ethanol	3.68	45	120988	6.117	ppbv	99
15) Acetone	3.93	43	758202	4.845	ppbv	91
16) 1,3-Butadiene	3.37	39	72872	0.990	ppbv #	8
17) tert-Butyl alcohol	4.40	59	66128	2.746	ppbv #	100
19) Isopropyl Alcohol	4.06	45	24642	0.240	ppbv #	1
20) Methylene Chloride	4.44	84	23781	0.399	ppbv #	87
23) Vinyl Acetate	5.18	43	113683	0.438	ppbv #	79
25) Ethyl Acetate	5.82	43	29327	0.079	ppbv #	86
26) Hexane	5.82	57	41033	0.248	ppbv #	49
27) Carbon Disulfide	4.66	76	41200	0.270	ppbv #	48
29) Chloroform	5.88	83	45128	0.179	ppbv	87
30) Cyclohexane	7.29	84	5359	0.044	ppbv #	1
32) 1,1,1-Trichloroethane	6.66	97	519638	2.210	ppbv	99
34) 2-Butanone	5.37	43	976531	4.364	ppbv	100
36) Benzene	7.04	78	40794	0.142	ppbv	96
37) 1,2-Dichloroethane	6.66	62	34064	0.194	ppbv #	1
38) Trichloroethene	8.00	130	1168797	10.731	ppbv	98
39) 1,2-Dichloropropane	7.33	63	905769	7.384	ppbv #	25
51) 2-Hexanone	10.32	43	148776	0.685	ppbv #	100
52) Tetrachloroethene	11.42	164	22907	0.258	ppbv	96
53) Toluene	9.99	91	87675	0.293	ppbv	97
60) o-Xylene	13.90	91	11484	0.033	ppbv #	63
74) 1,2,4-Trimethylbenzene	16.97	105	34869	0.084	ppbv #	67
79) Naphthalene	22.48	128	197763	0.589	ppbv	97
80) Naphthalene,2-methyl-	25.16	142	54227	0.607	ppbv	95

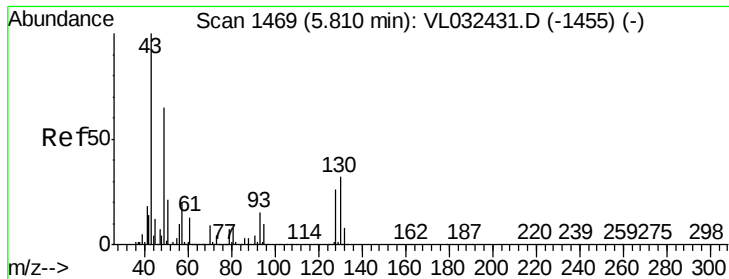
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 31 21:33:46 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 1466

Delta R.T. -0.01 min

Lab File: VL032462.D

Acq: 5 Sep 2018 18:13

Instrument :

MSVOA_L

ClientSampleId :

VP-3DL

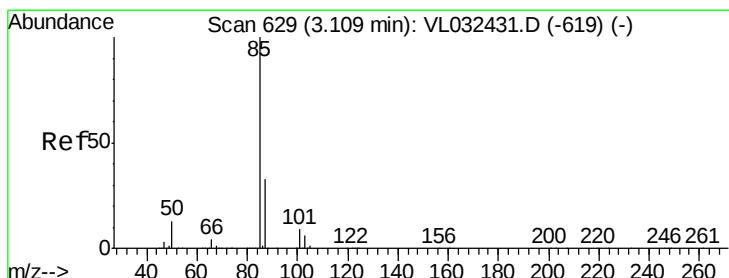
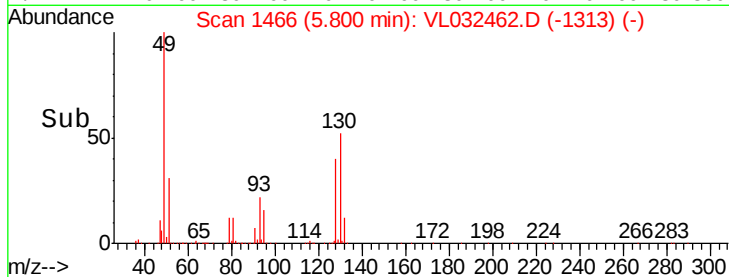
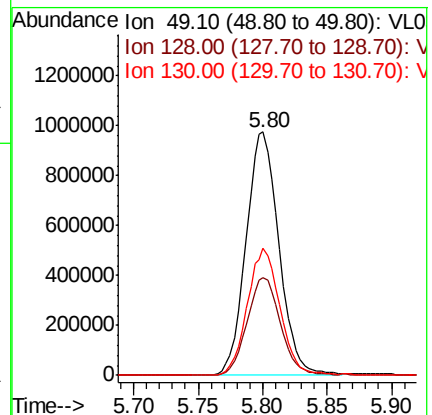
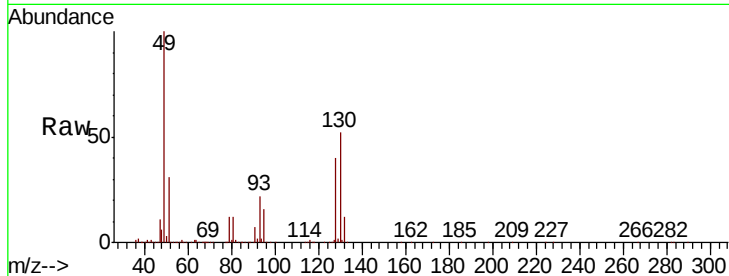
Tgt Ion: 49 Resp: 1737642

Ion Ratio Lower Upper

49 100

128 41.0 20.7 62.1

130 52.3 26.6 79.7



#2

Dichlorodifluoromethane

Concen: 0.030 ppbv

RT: 3.10 min Scan# 627

Delta R.T. -0.01 min

Lab File: VL032462.D

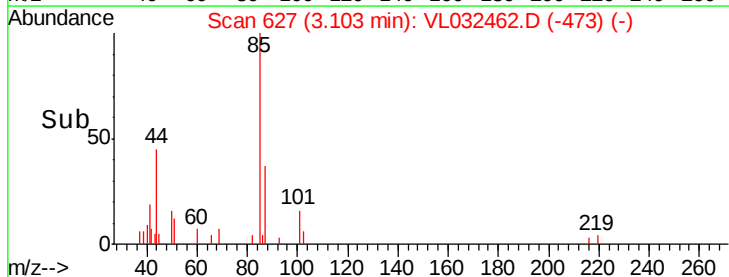
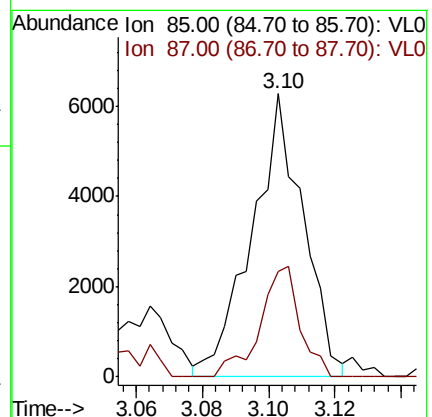
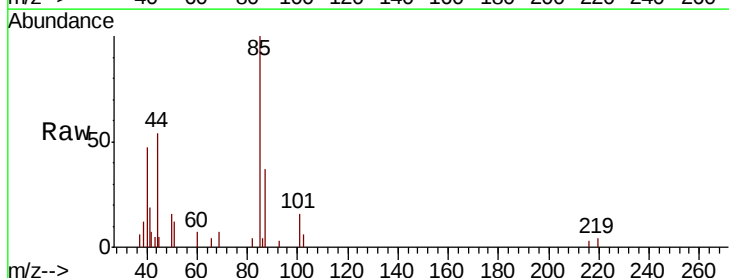
Acq: 5 Sep 2018 18:13

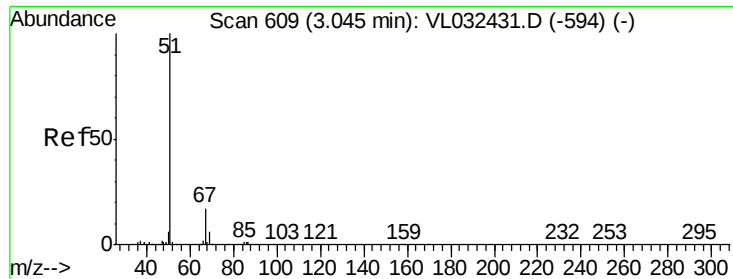
Tgt Ion: 85 Resp: 6744

Ion Ratio Lower Upper

85 100

87 39.0 26.2 39.4

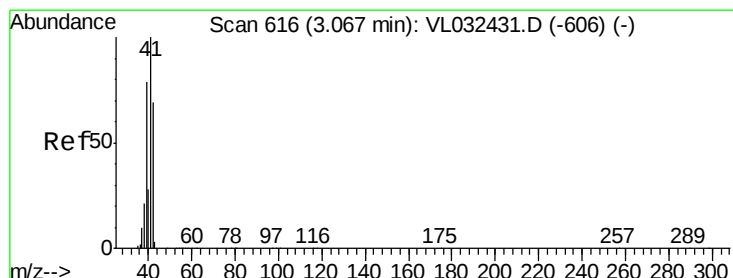
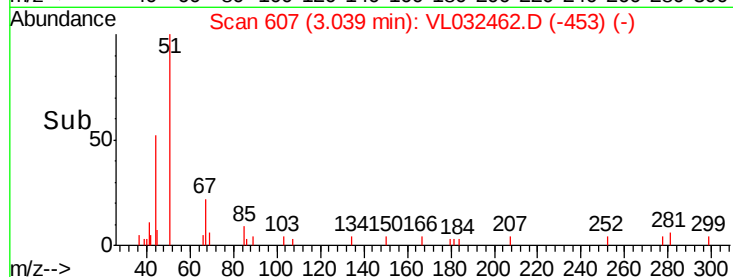
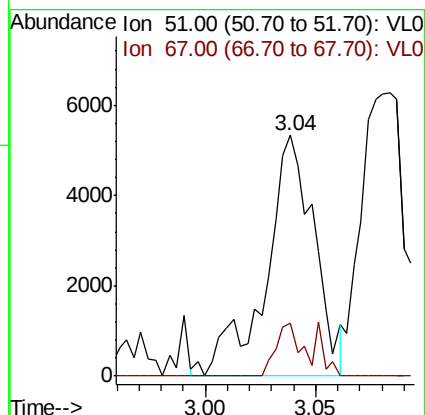
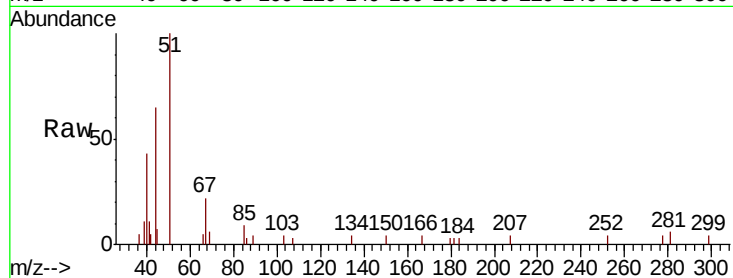




#3
 Chlorodifluoromethane
 Concen: 0.051 ppbv
 RT: 3.04 min Scan# 607
 Delta R.T. -0.01 min
 Lab File: VL032462.D
 Acq: 5 Sep 2018 18:13

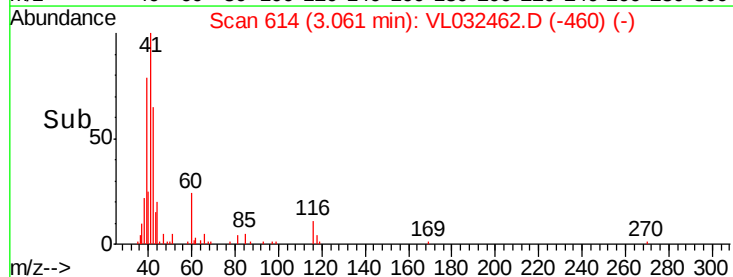
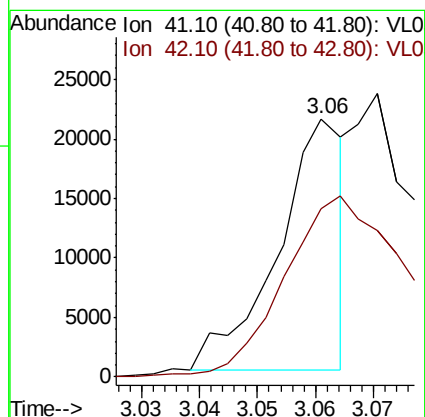
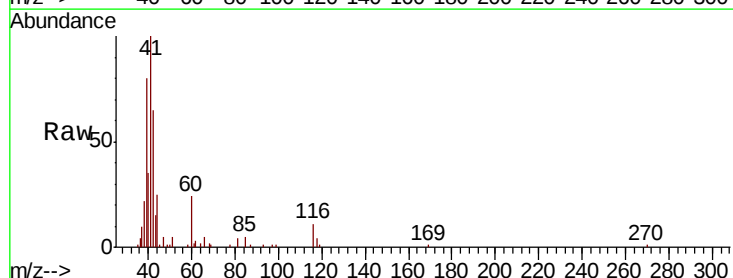
Instrument :
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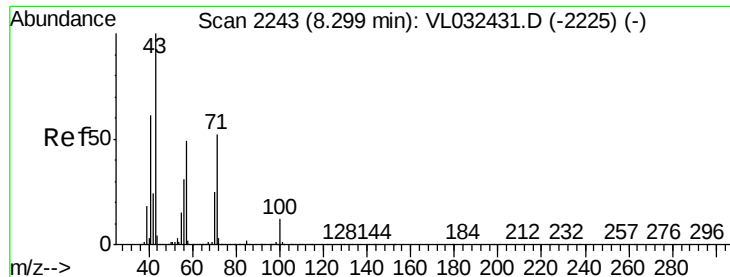
Tgt Ion: 51 Resp: 8088
 Ion Ratio Lower Upper
 51 100
 67 15.1 13.8 20.8



#9
 Propene
 Concen: 0.266 ppbv
 RT: 3.06 min Scan# 614
 Delta R.T. -0.01 min
 Lab File: VL032462.D
 Acq: 5 Sep 2018 18:13

Tgt Ion: 41 Resp: 16857
 Ion Ratio Lower Upper
 41 100
 42 139.5 56.6 84.8#





#10

Heptane

Concen: 0.073 ppbv

RT: 8.29 min Scan# 2241

Delta R.T. -0.01 min

Lab File: VL032462.D

Acq: 5 Sep 2018 18:13

Instrument :

MSVOA_L

ClientSampleId :

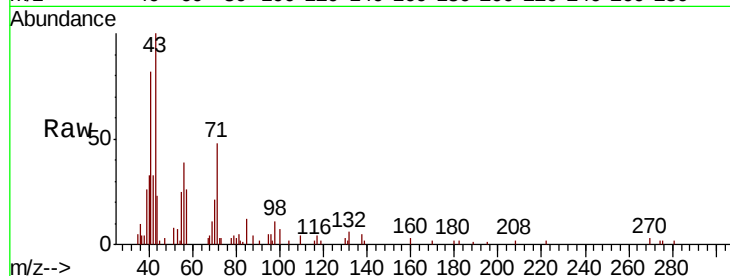
VP-3DL

Tgt Ion: 43 Resp: 16661

Ion Ratio Lower Upper

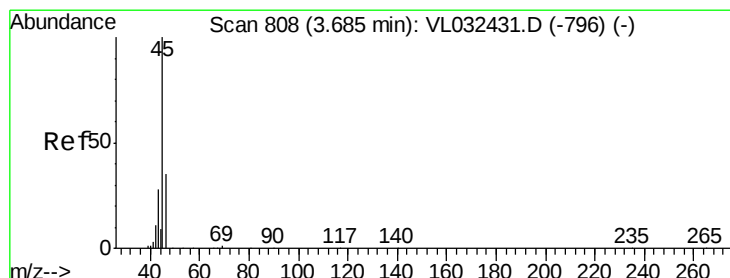
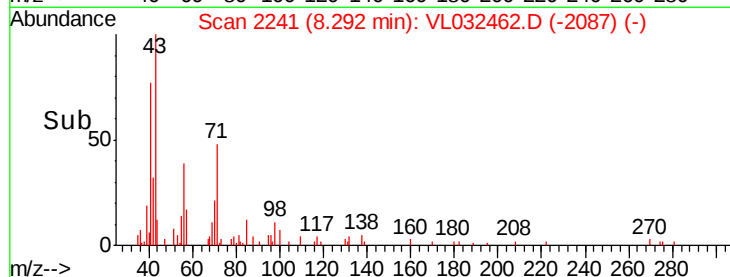
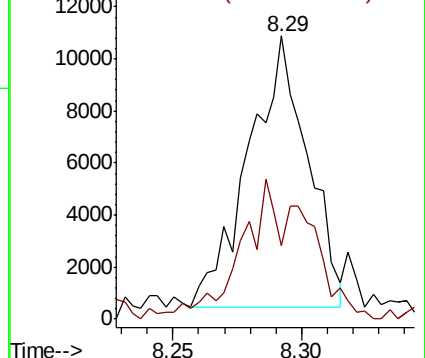
43 100

57 59.3 39.6 59.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 6.117 ppbv

RT: 3.68 min Scan# 808

Delta R.T. 0.00 min

Lab File: VL032462.D

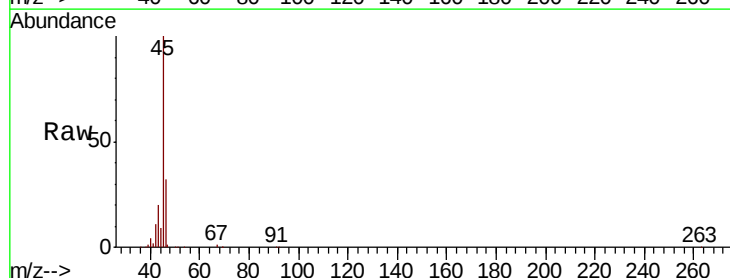
Acq: 5 Sep 2018 18:13

Tgt Ion: 45 Resp: 120988

Ion Ratio Lower Upper

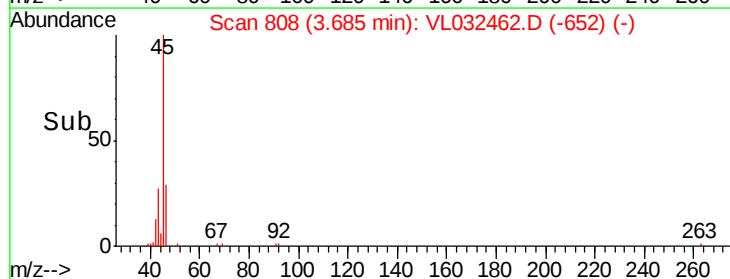
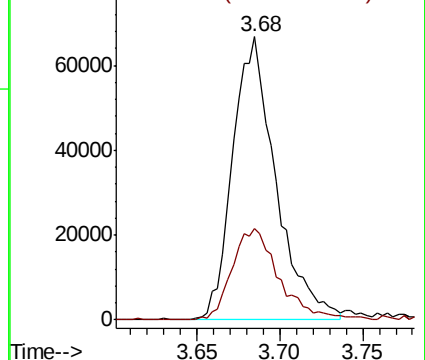
45 100

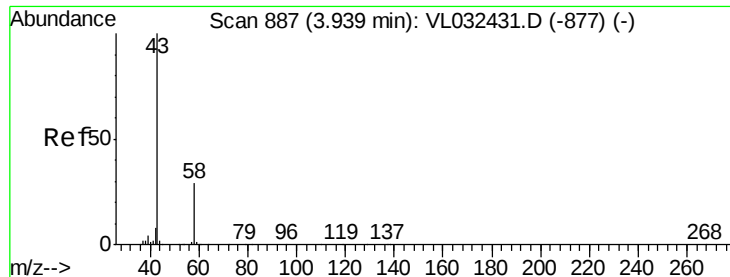
46 36.1 14.2 56.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.845 ppbv

RT: 3.93 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032462.D

Acq: 5 Sep 2018 18:13

Instrument :

MSVOA_L

ClientSampleId :

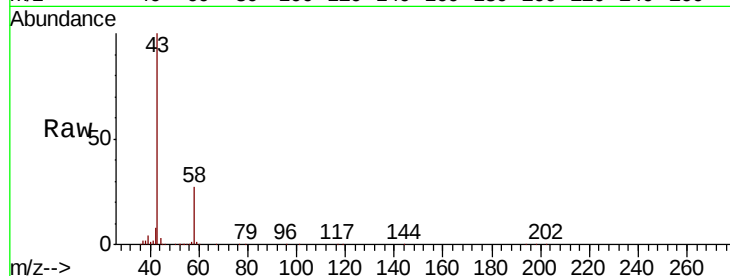
VP-3DL

Tgt Ion: 43 Resp: 758202

Ion Ratio Lower Upper

43 100

58 33.0 22.6 33.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

500000

400000

300000

200000

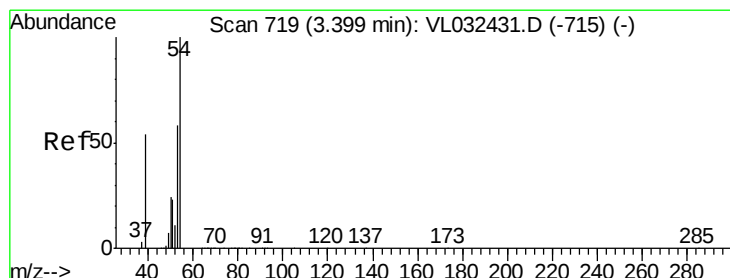
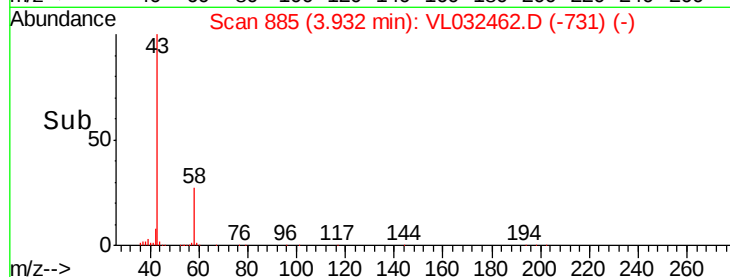
100000

0

3.93

3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 0.990 ppbv

RT: 3.37 min Scan# 711

Delta R.T. -0.03 min

Lab File: VL032462.D

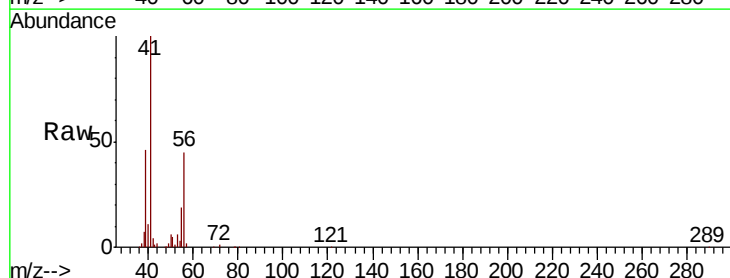
Acq: 5 Sep 2018 18:13

Tgt Ion: 39 Resp: 72872

Ion Ratio Lower Upper

39 100

54 8.0 80.8 121.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

60000

50000

40000

30000

20000

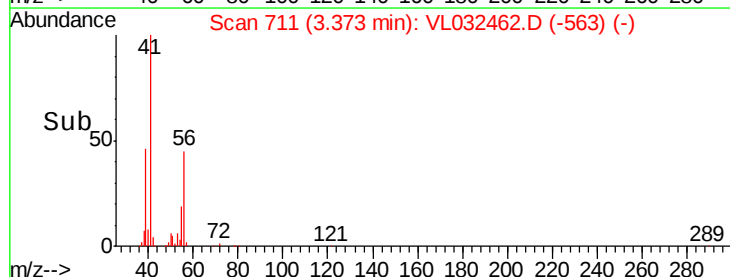
10000

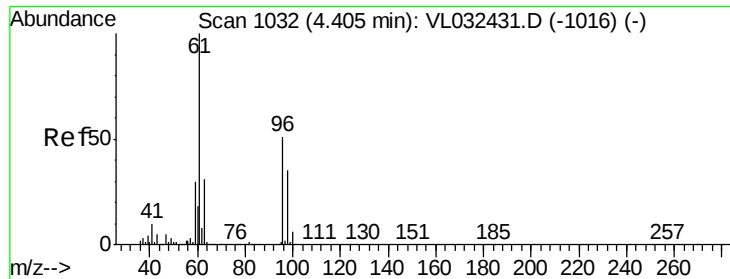
0

3.37

3.35 3.40

Time-->

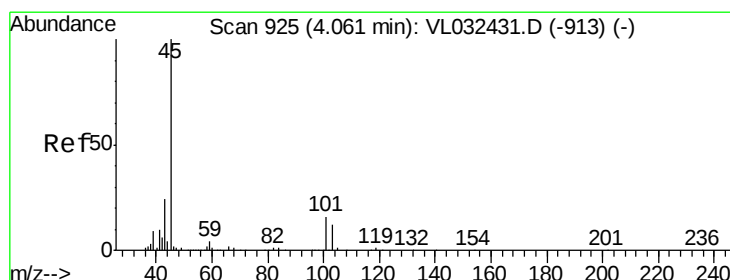
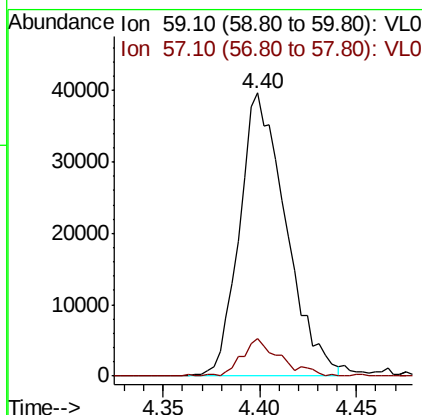
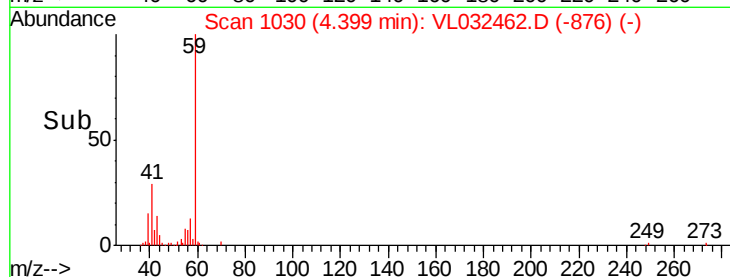
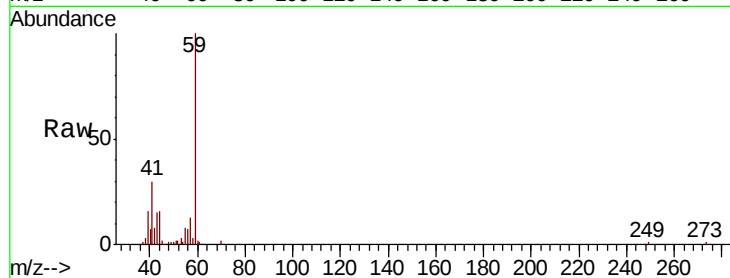




#17
 tert-Butyl alcohol
 Concen: 2.746 ppbv
 RT: 4.40 min Scan# 1030
 Delta R.T. -0.01 min
 Lab File: VL032462.D
 Acq: 5 Sep 2018 18:13

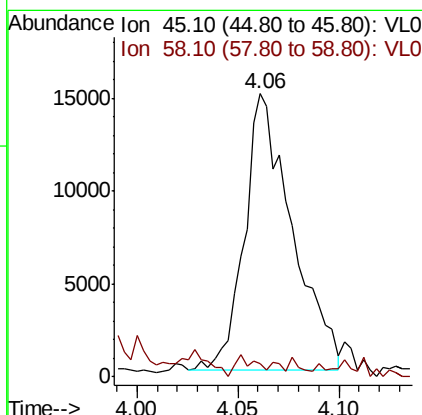
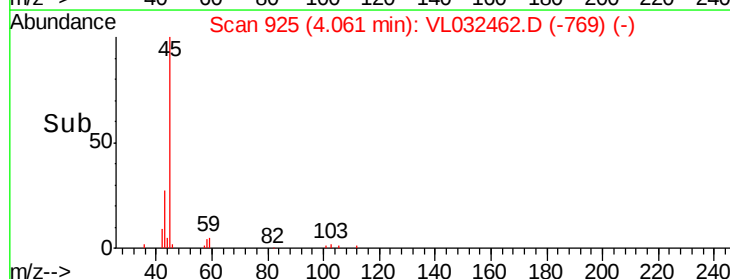
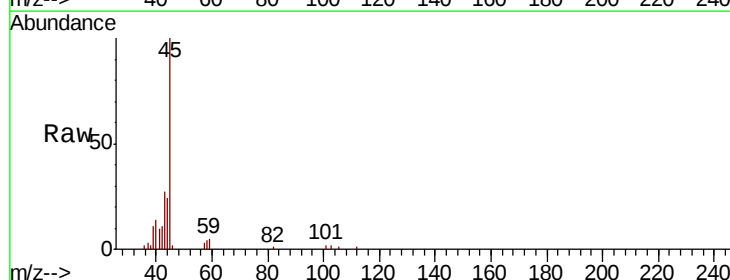
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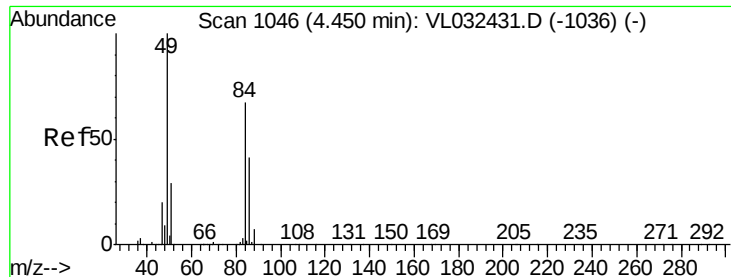
Tgt Ion: 59 Resp: 66128
 Ion Ratio Lower Upper
 59 100
 57 11.3 0.0 0.0#



#19
 Isopropyl Alcohol
 Concen: 0.240 ppbv
 RT: 4.06 min Scan# 925
 Delta R.T. 0.00 min
 Lab File: VL032462.D
 Acq: 5 Sep 2018 18:13

Tgt Ion: 45 Resp: 24642
 Ion Ratio Lower Upper
 45 100
 58 1011.9 2.0 3.0#

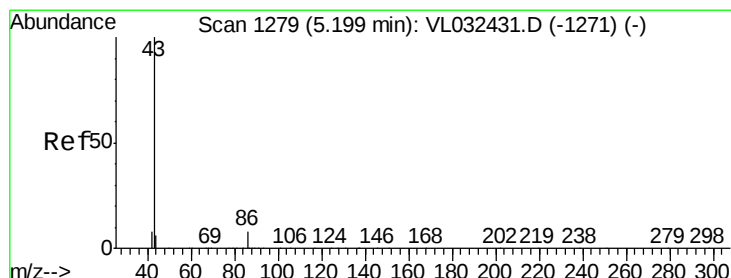
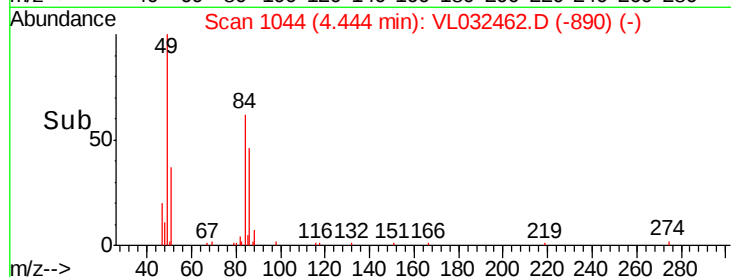
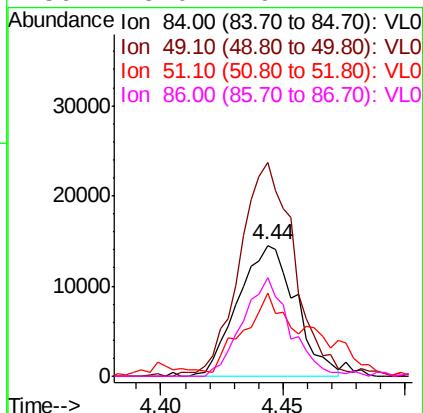
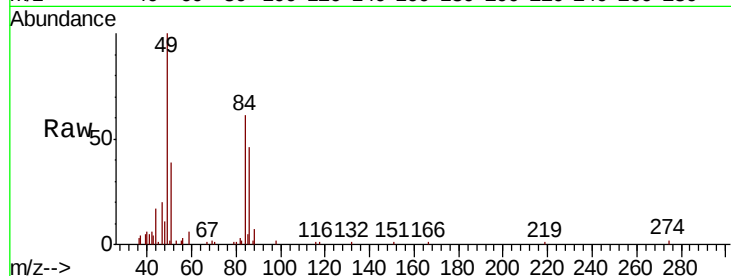




#20
Methylene Chloride
Concen: 0.399 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VL032462.D
Acq: 5 Sep 2018 18:13

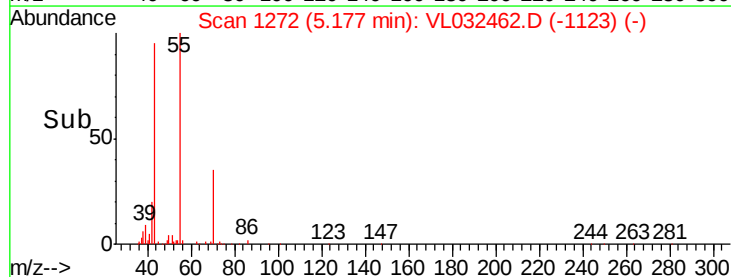
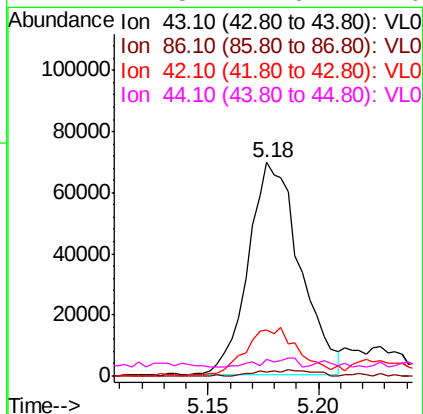
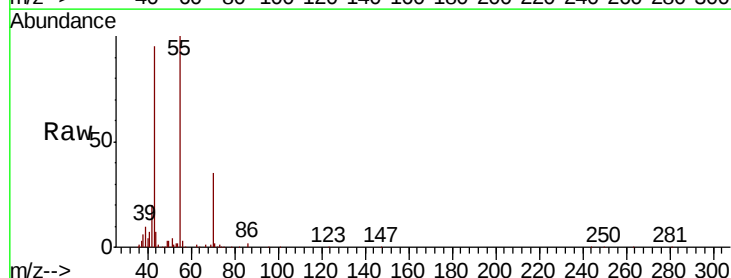
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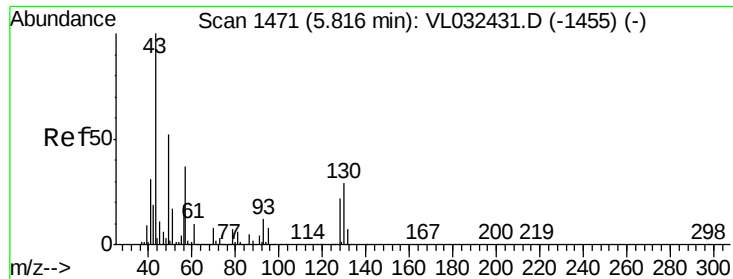
Tgt Ion:	84	Resp:	23781
Ion	Ratio	Lower	Upper
84	100		
49	160.1	119.1	178.7
51	58.0	35.2	52.8#
86	75.0	49.4	74.2#



#23
Vinyl Acetate
Concen: 0.438 ppbv
RT: 5.18 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL032462.D
Acq: 5 Sep 2018 18:13

Tgt Ion:	43	Resp:	113683
Ion	Ratio	Lower	Upper
43	100		
86	1.9	5.9	8.9#
42	21.1	6.9	10.3#
44	2.8	4.6	7.0#

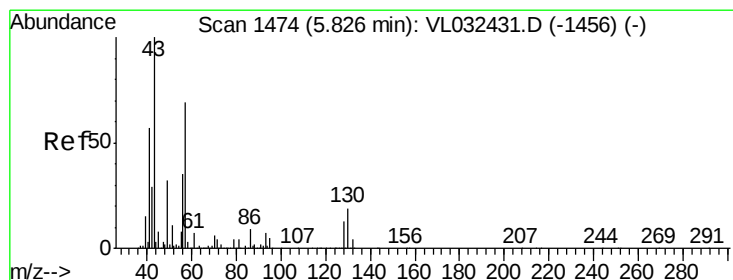
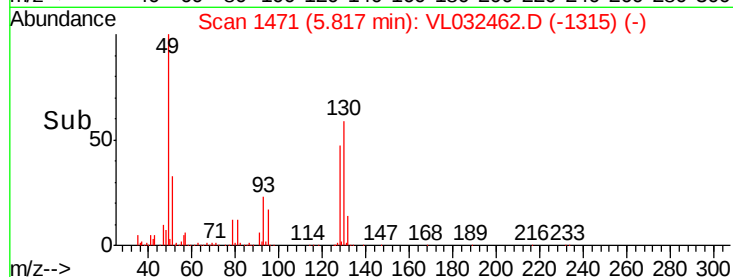
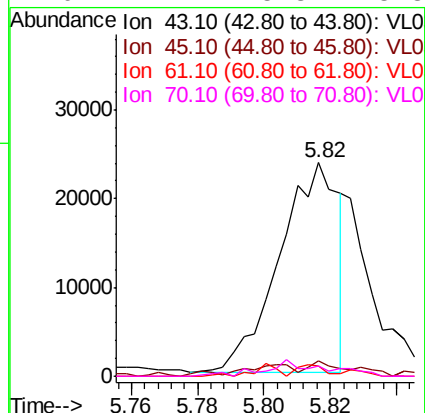
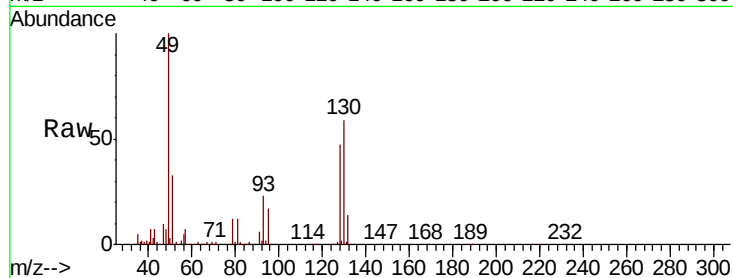




#25
Ethyl Acetate
Concen: 0.079 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. 0.00 min
Lab File: VL032462.D
Acq: 5 Sep 2018 18:13

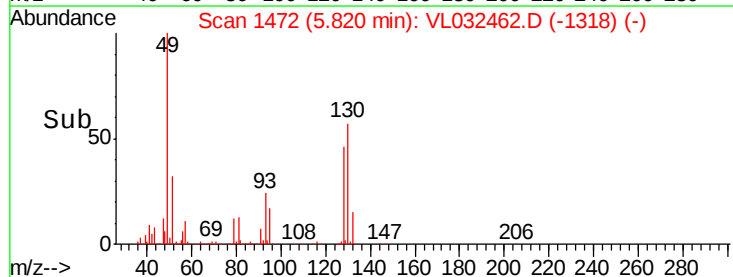
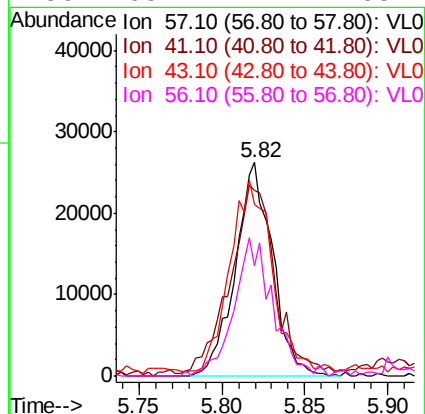
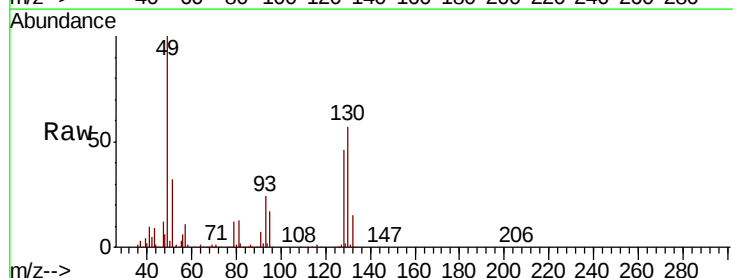
Instrument :
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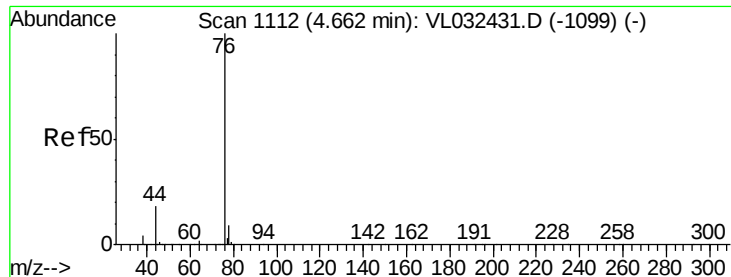
Tgt Ion:	43	Resp:	29327
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	6.0	7.6	11.4#
70	7.7	5.8	8.8



#26
Hexane
Concen: 0.248 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. -0.01 min
Lab File: VL032462.D
Acq: 5 Sep 2018 18:13

Tgt Ion:	57	Resp:	41033
Ion	Ratio	Lower	Upper
57	100		
41	108.6	69.0	103.4#
43	105.0	172.1	258.1#
56	68.4	42.2	63.2#





#27

Carbon Disulfide

Concen: 0.270 ppbv

RT: 4.66 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VL032462.D

Acq: 5 Sep 2018 18:13

Instrument :

MSVOA_L

ClientSampleId :

VP-3DL

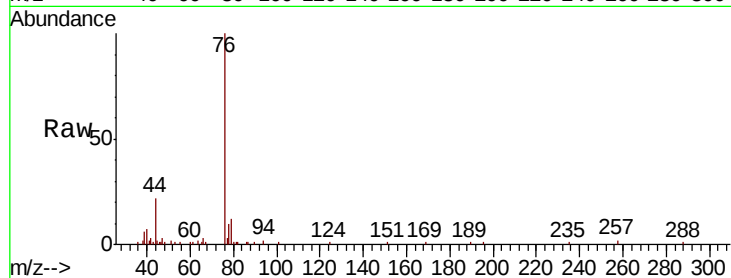
Tgt Ion: 76 Resp: 41200

Ion Ratio Lower Upper

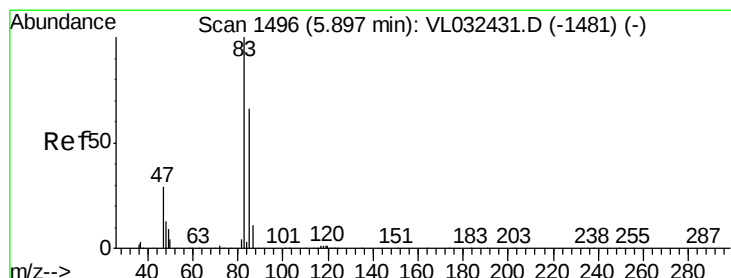
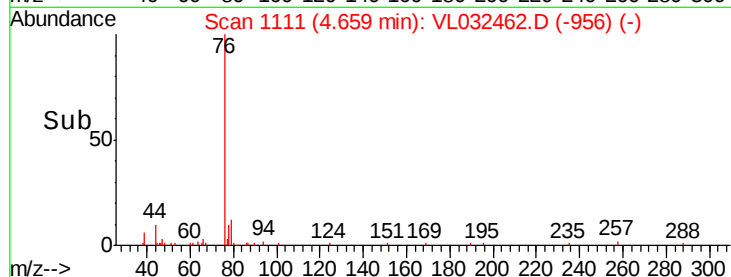
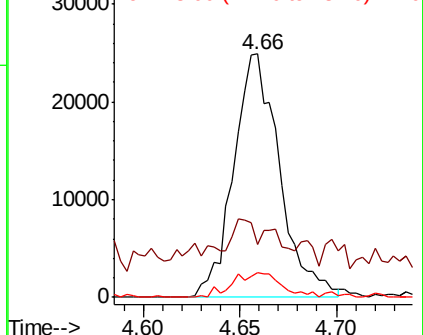
76 100

44 51.0 14.0 21.0#

78 11.9 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



#29

Chloroform

Concen: 0.179 ppbv

RT: 5.88 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL032462.D

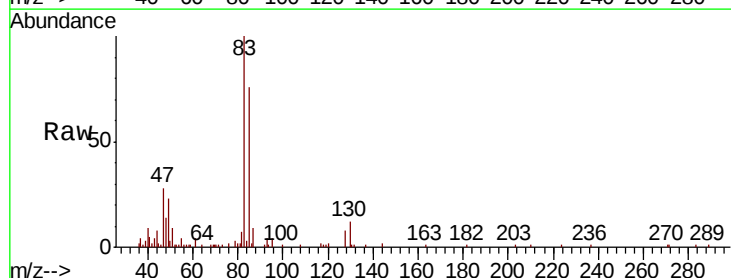
Acq: 5 Sep 2018 18:13

Tgt Ion: 83 Resp: 45128

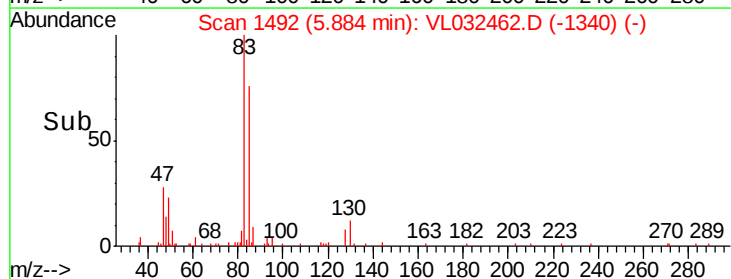
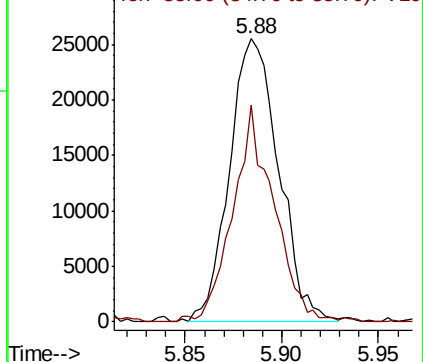
Ion Ratio Lower Upper

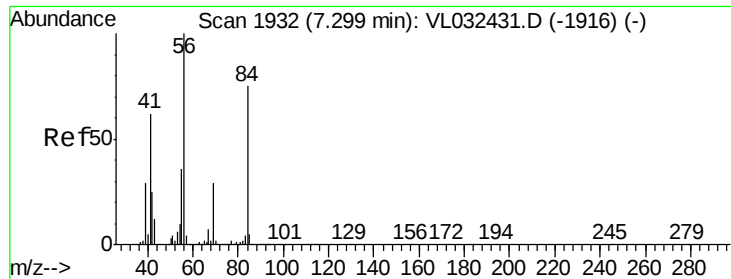
83 100

85 75.8 52.5 78.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

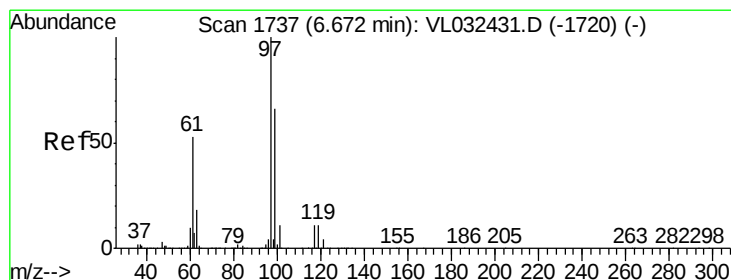
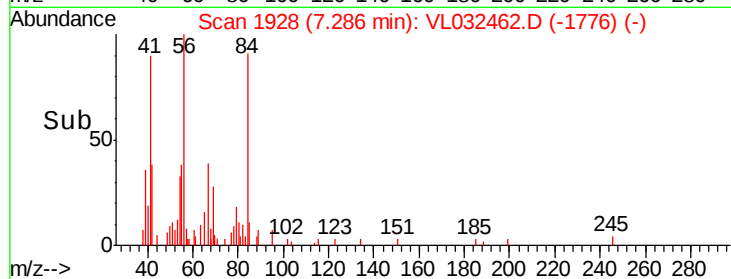
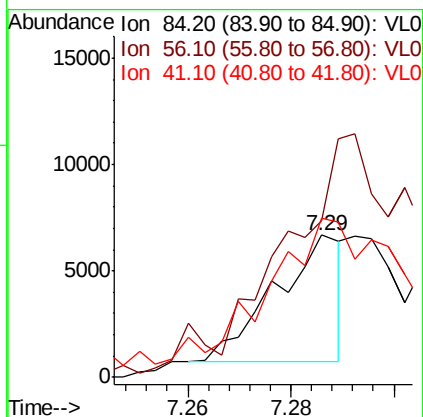
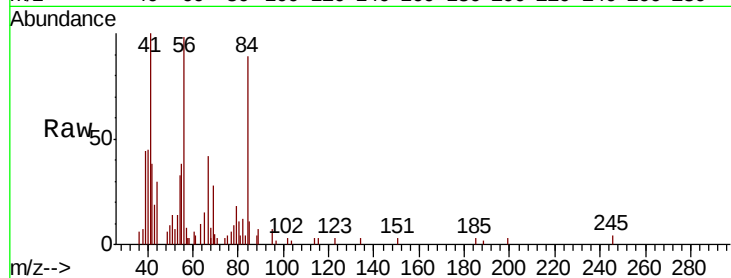




#30
Cyclohexane
Concen: 0.044 ppbv
RT: 7.29 min Scan# 1928
Delta R.T. -0.01 min
Lab File: VL032462.D
Acq: 5 Sep 2018 18:13

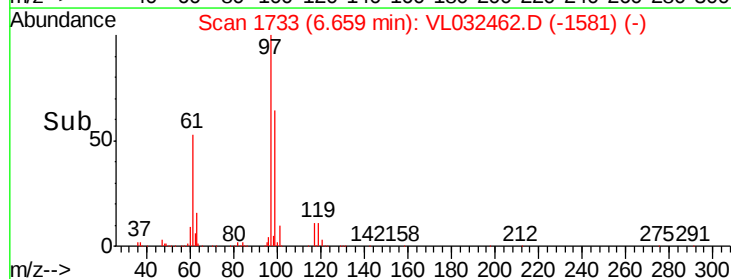
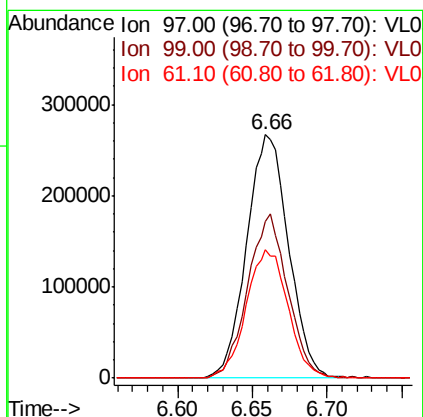
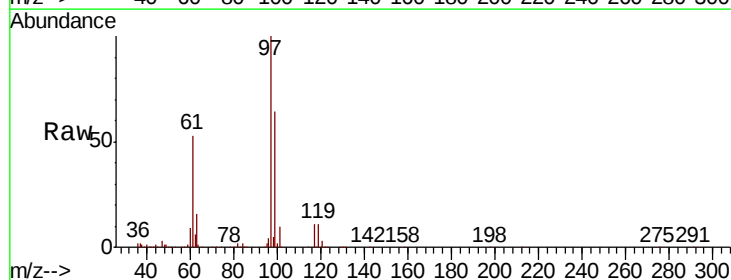
Instrument :
MSVOA_L
ClientSampleId :
VP-3DL

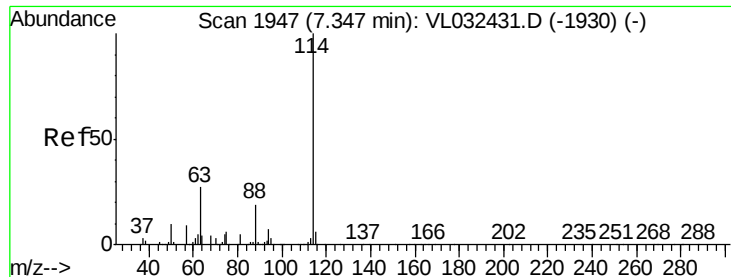
Tgt Ion: 84 Resp: 5359
Ion Ratio Lower Upper
84 100
56 0.0 113.5 170.3#
41 317.1 68.1 102.1#



#32
1,1,1-Trichloroethane
Concen: 2.210 ppbv
RT: 6.66 min Scan# 1733
Delta R.T. -0.01 min
Lab File: VL032462.D
Acq: 5 Sep 2018 18:13

Tgt Ion: 97 Resp: 519638
Ion Ratio Lower Upper
97 100
99 64.5 52.1 78.1
61 52.7 42.5 63.7

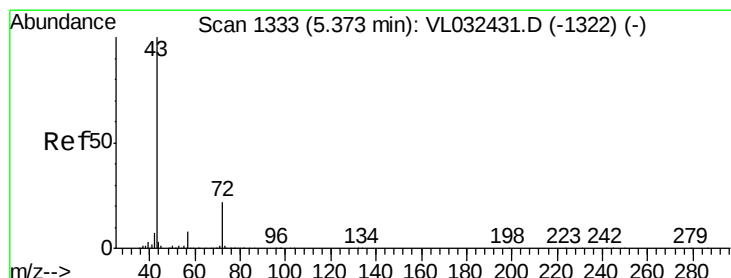
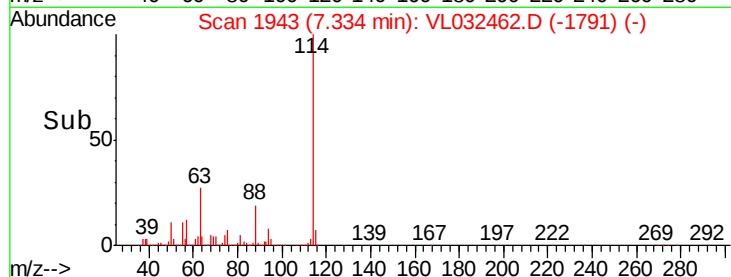
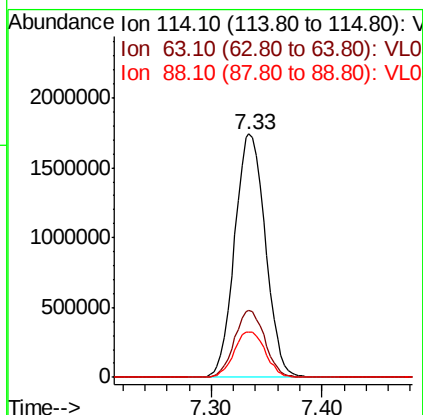
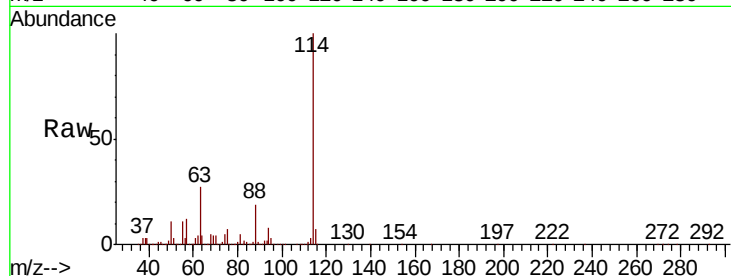




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.33 min Scan# 1943
 Delta R.T. -0.01 min
 Lab File: VL032462.D
 Acq: 5 Sep 2018 18:13

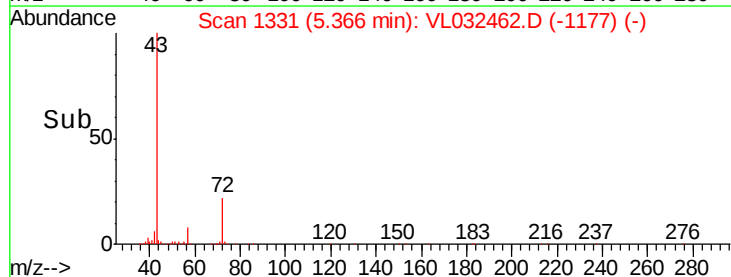
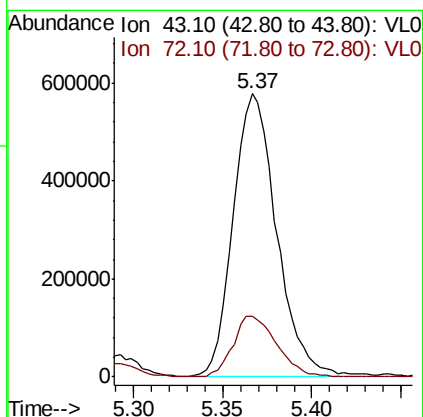
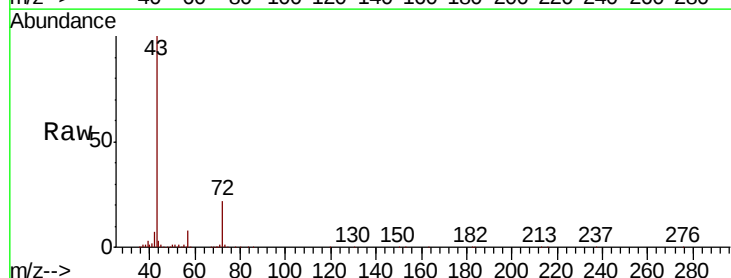
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3DL

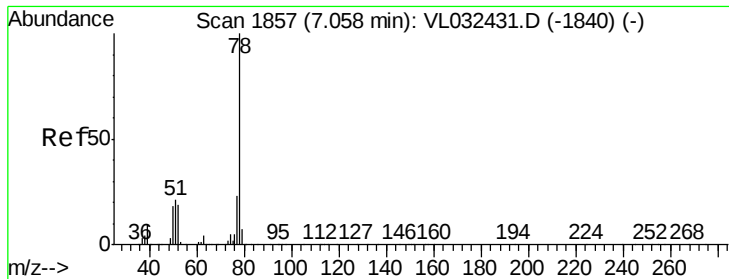
Tgt Ion: 114 Resp: 3369155
 Ion Ratio Lower Upper
 114 100
 63 27.1 22.2 33.4
 88 19.1 15.0 22.4



#34
 2-Butanone
 Concen: 4.364 ppbv
 RT: 5.37 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VL032462.D
 Acq: 5 Sep 2018 18:13

Tgt Ion: 43 Resp: 976531
 Ion Ratio Lower Upper
 43 100
 72 22.0 17.8 26.6





#36

Benzene

Concen: 0.142 ppbv

RT: 7.04 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VL032462.D

Acq: 5 Sep 2018 18:13

Instrument :

MSVOA_L

ClientSampleId :

VP-3DL

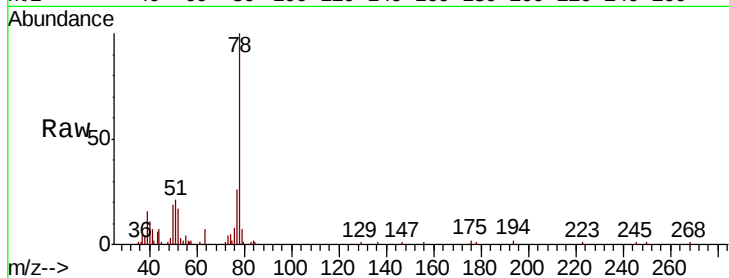
Tgt Ion: 78 Resp: 40794

Ion Ratio Lower Upper

78 100

77 25.8 18.4 27.6

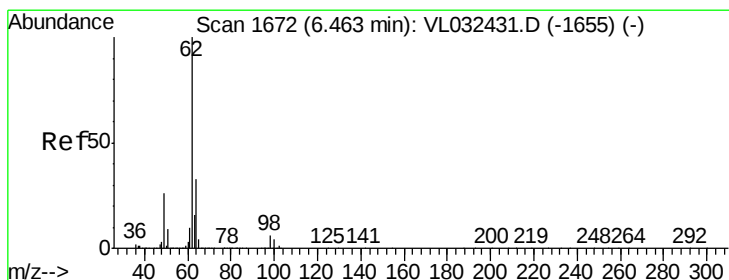
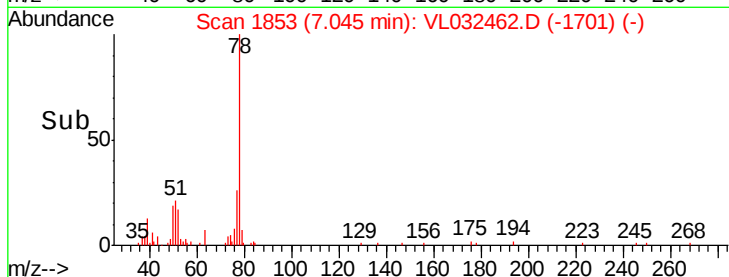
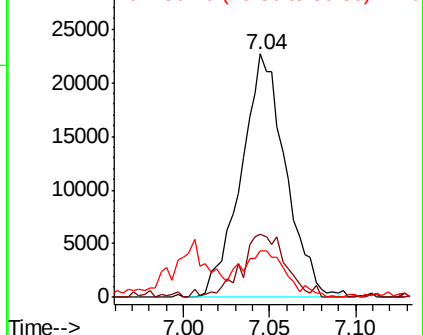
50 19.1 14.4 21.6



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.194 ppbv

RT: 6.66 min Scan# 1732

Delta R.T. 0.19 min

Lab File: VL032462.D

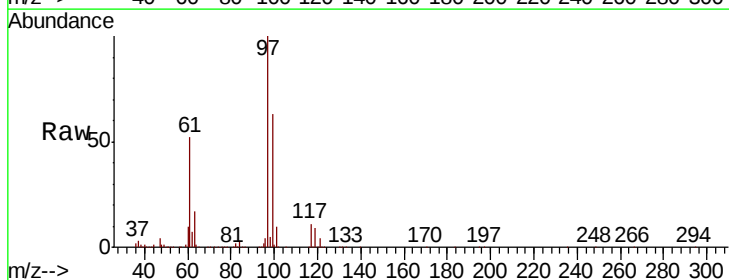
Acq: 5 Sep 2018 18:13

Tgt Ion: 62 Resp: 34064

Ion Ratio Lower Upper

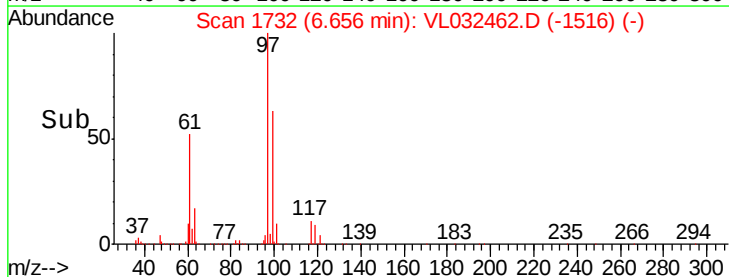
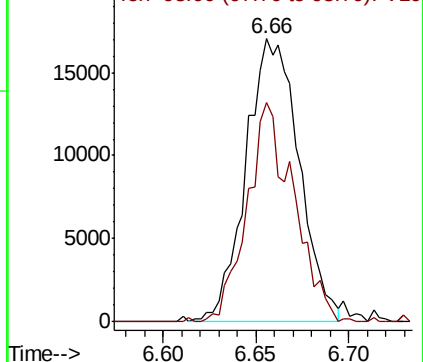
62 100

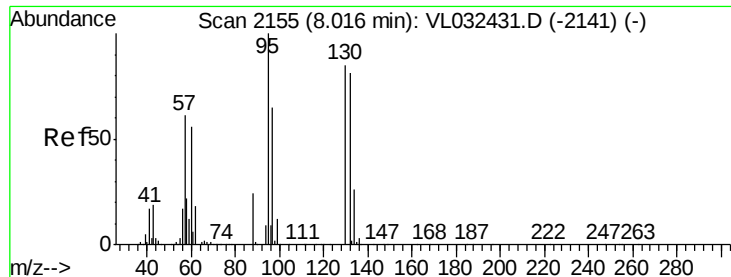
98 67.8 5.0 7.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

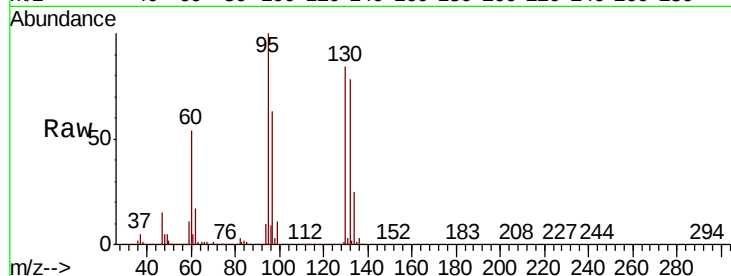




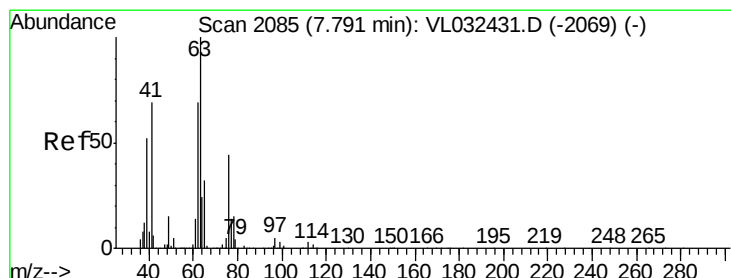
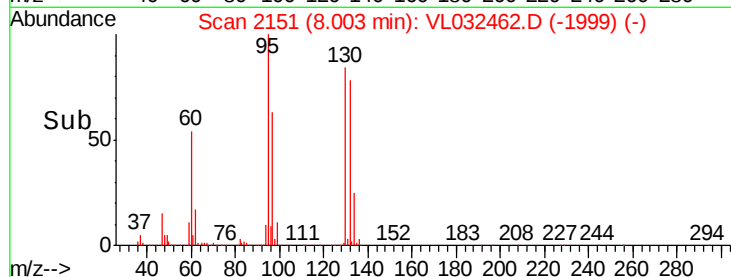
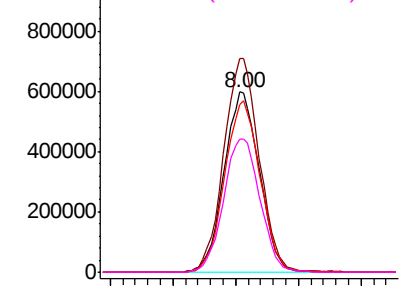
#38
 Trichloroethene
 Concen: 10.731 ppbv
 RT: 8.00 min Scan# 2151
 Delta R.T. -0.01 min
 Lab File: VL032462.D
 Acq: 5 Sep 2018 18:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3DL

Tgt Ion:130 Resp: 1168797
 Ion Ratio Lower Upper
 130 100
 95 118.3 94.2 141.4
 132 92.9 76.2 114.4
 97 74.0 60.8 91.2

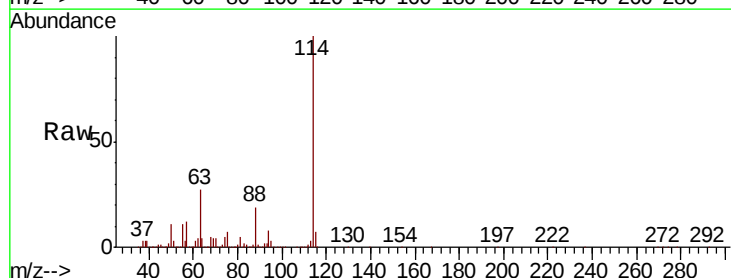


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

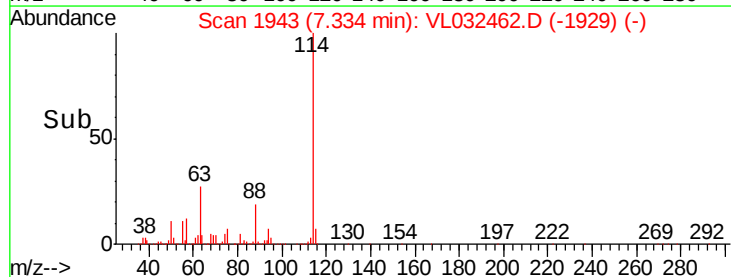
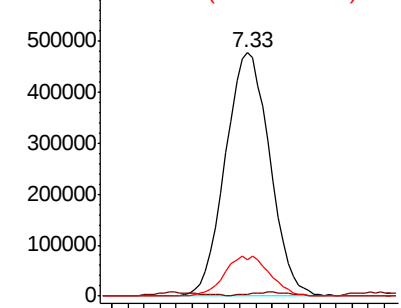


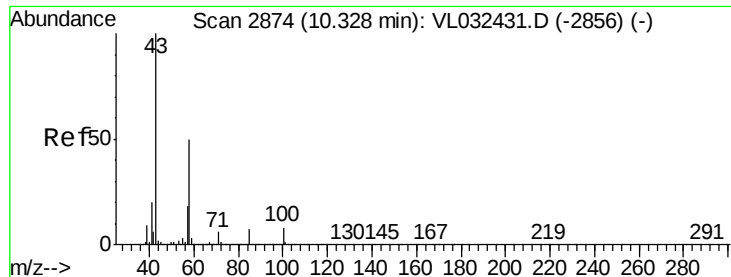
#39
 1,2-Dichloropropane
 Concen: 7.384 ppbv
 RT: 7.33 min Scan# 1943
 Delta R.T. -0.46 min
 Lab File: VL032462.D
 Acq: 5 Sep 2018 18:13

Tgt Ion: 63 Resp: 905769
 Ion Ratio Lower Upper
 63 100
 41 0.4 55.4 83.0#
 62 15.0 55.4 83.0#



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

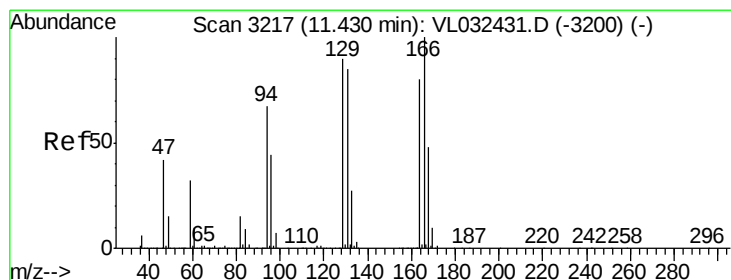
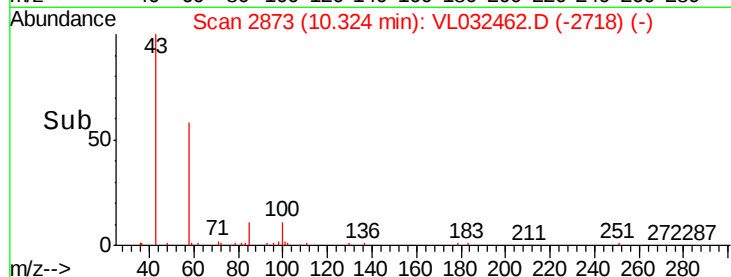
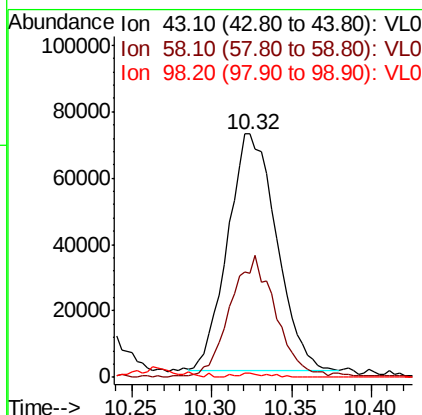
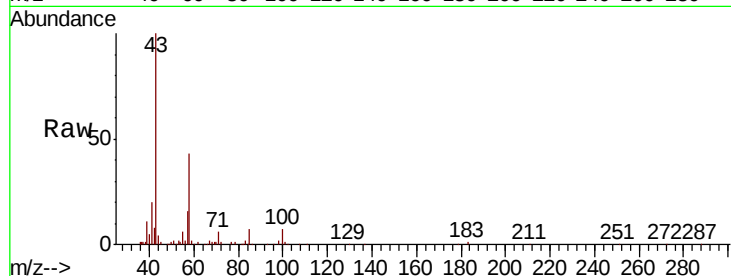




#51
2-Hexanone
Concen: 0.685 ppbv
RT: 10.32 min Scan# 2873
Delta R.T. -0.00 min
Lab File: VL032462.D
Acq: 5 Sep 2018 18:13

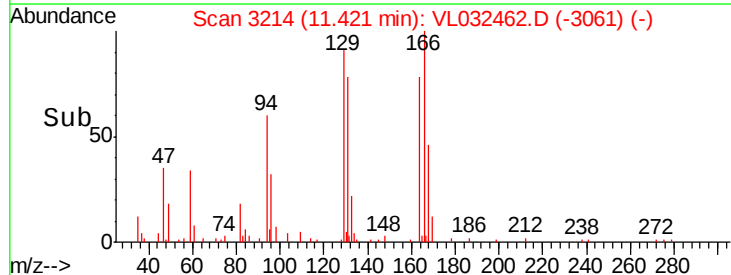
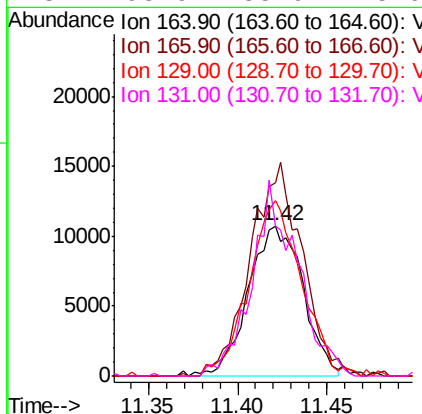
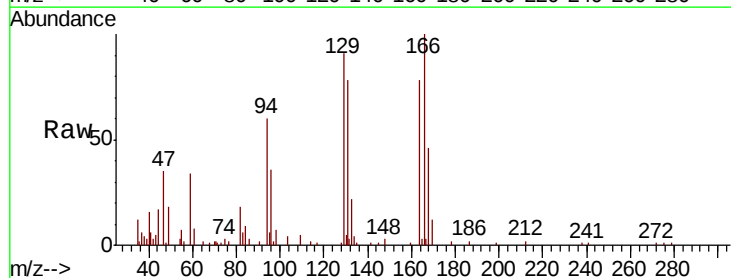
Instrument :
MSVOA_L
ClientSampleId :
VP-3DL

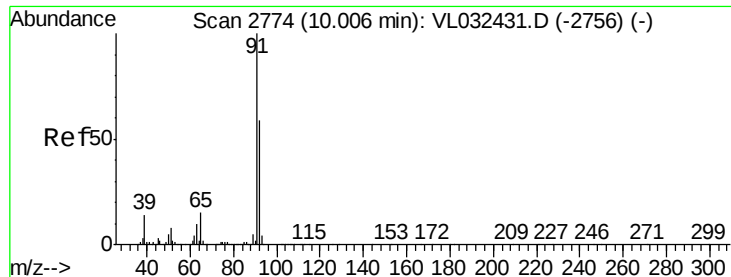
Tgt Ion: 43 Resp: 148776
Ion Ratio Lower Upper
43 100
58 49.1 39.2 58.8
98 1.2 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.258 ppbv
RT: 11.42 min Scan# 3214
Delta R.T. -0.01 min
Lab File: VL032462.D
Acq: 5 Sep 2018 18:13

Tgt Ion: 164 Resp: 22907
Ion Ratio Lower Upper
164 100
166 123.8 100.6 150.8
129 112.3 89.9 134.9
131 95.9 85.9 128.9





#53

Toluene

Concen: 0.293 ppbv

RT: 9.99 min Scan# 2770

Delta R.T. -0.01 min

Lab File: VL032462.D

Acq: 5 Sep 2018 18:13

Instrument :

MSVOA_L

ClientSampleId :

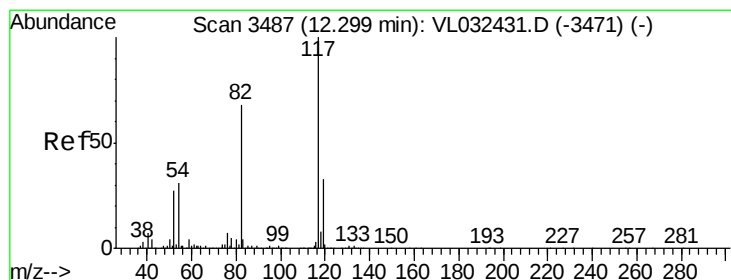
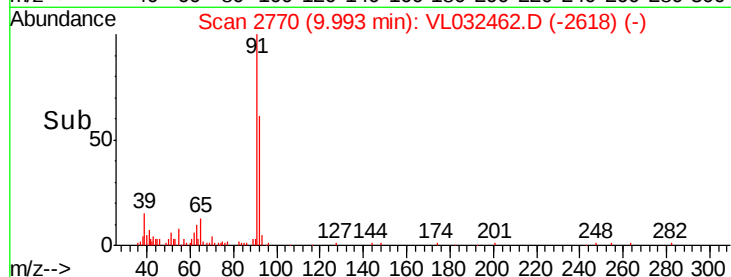
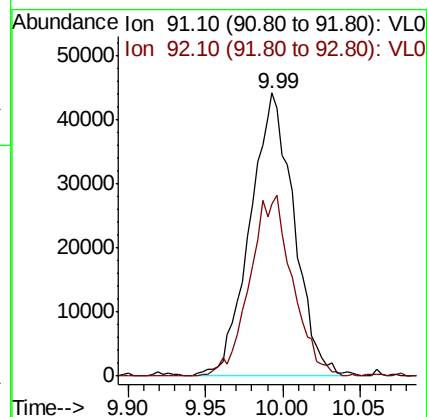
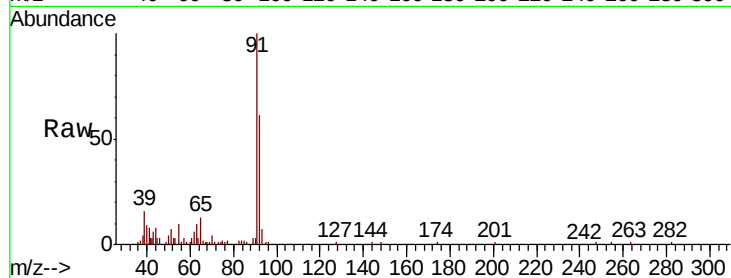
VP-3DL

Tgt Ion: 91 Resp: 87675

Ion Ratio Lower Upper

91 100

92 62.2 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.29 min Scan# 3484

Delta R.T. -0.01 min

Lab File: VL032462.D

Acq: 5 Sep 2018 18:13

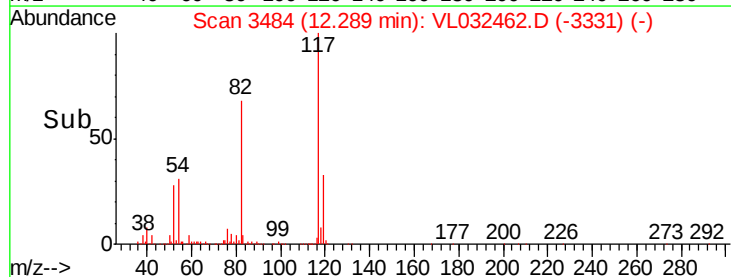
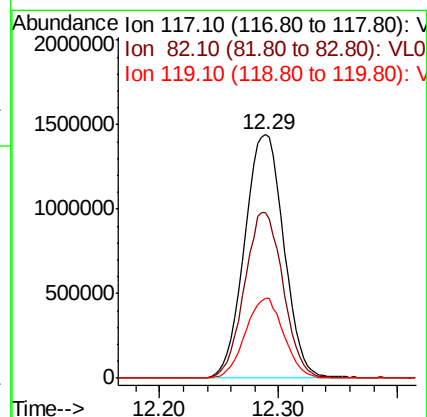
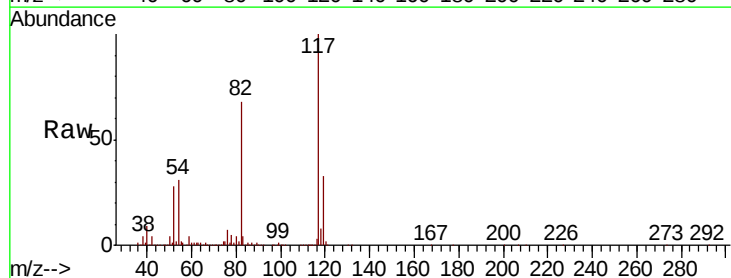
Tgt Ion: 117 Resp: 3295665

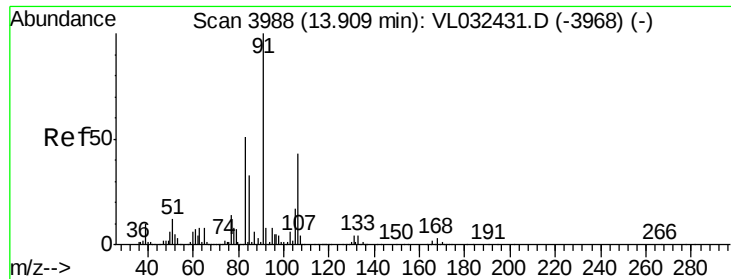
Ion Ratio Lower Upper

117 100

82 67.1 53.0 79.6

119 32.1 45.9 68.9#

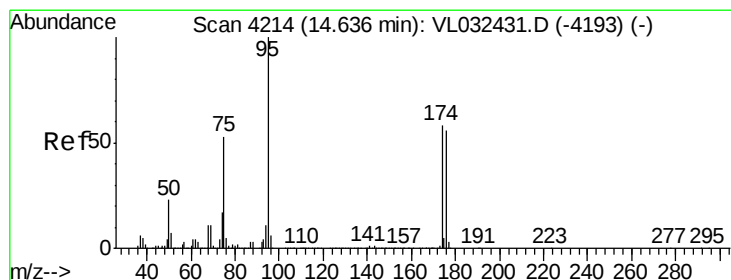
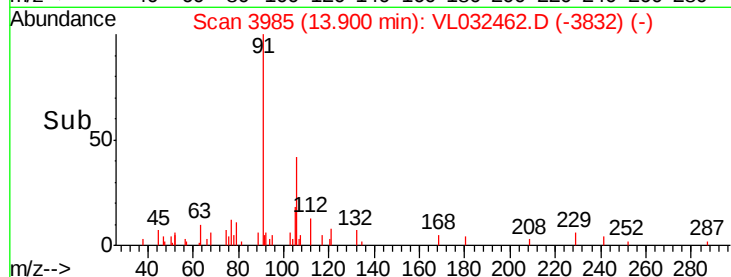
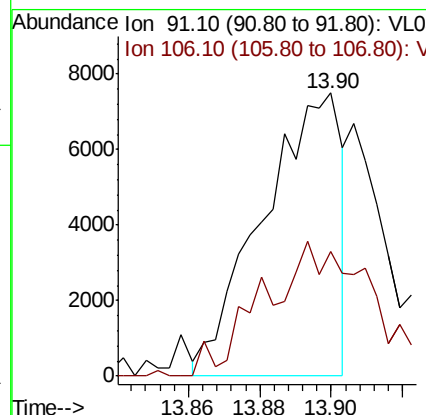
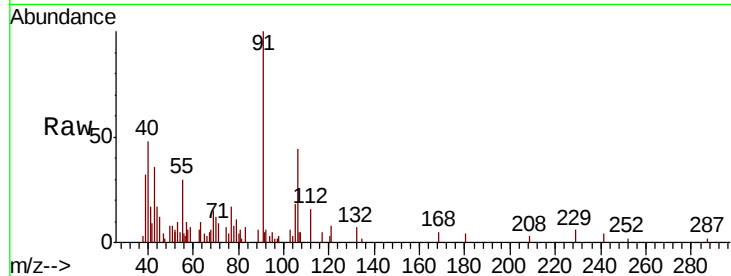




#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.90 min Scan# 3985
Delta R.T. -0.01 min
Lab File: VL032462.D
Acq: 5 Sep 2018 18:13

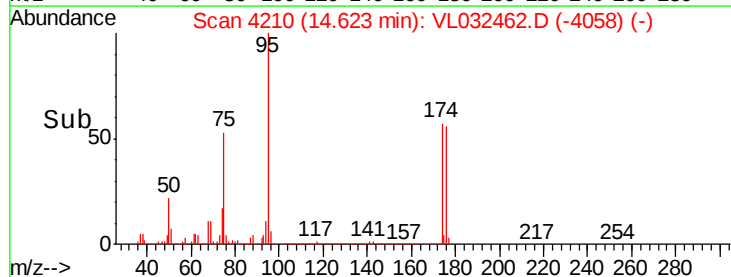
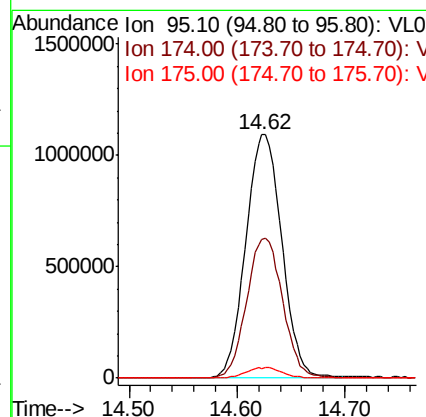
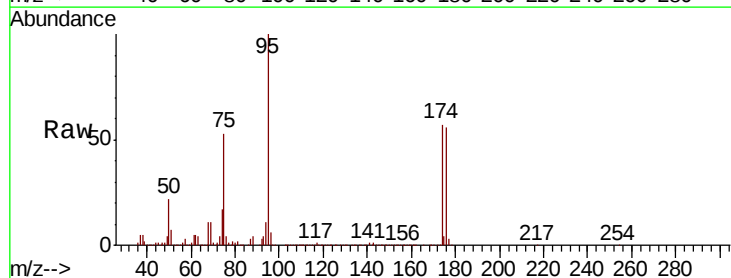
Instrument :
MSVOA_L
ClientSampleId :
VP-3DL

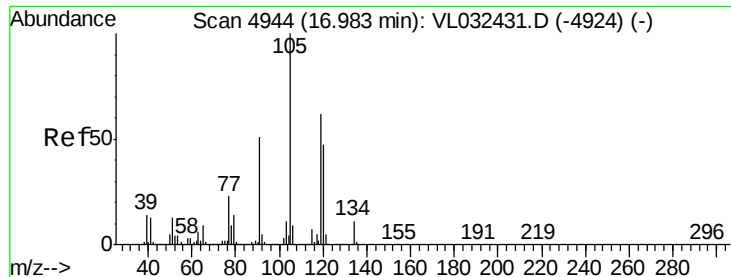
Tgt Ion: 91 Resp: 11484
Ion Ratio Lower Upper
91 100
106 67.6 21.9 65.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.408 ppbv
RT: 14.62 min Scan# 4210
Delta R.T. -0.01 min
Lab File: VL032462.D
Acq: 5 Sep 2018 18:13

Tgt Ion: 95 Resp: 2546630
Ion Ratio Lower Upper
95 100
174 57.8 46.3 69.5
175 4.2 3.4 5.0

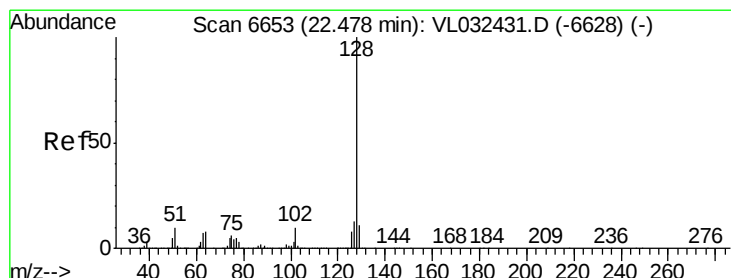
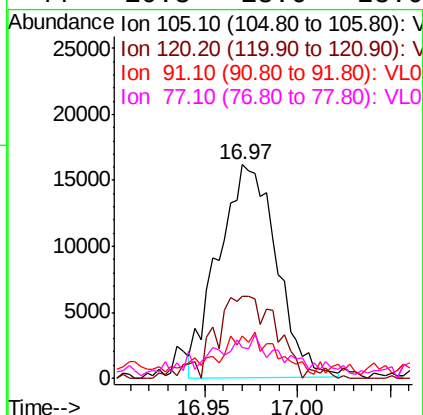
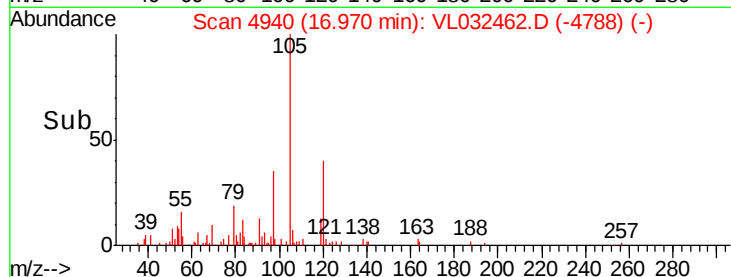
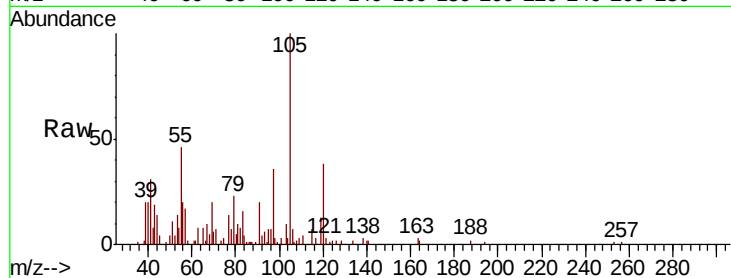




#74
 1,2,4-Trimethylbenzene
 Concen: 0.084 ppbv
 RT: 16.97 min Scan# 4940
 Delta R.T. -0.01 min
 Lab File: VL032462.D
 Acq: 5 Sep 2018 18:13

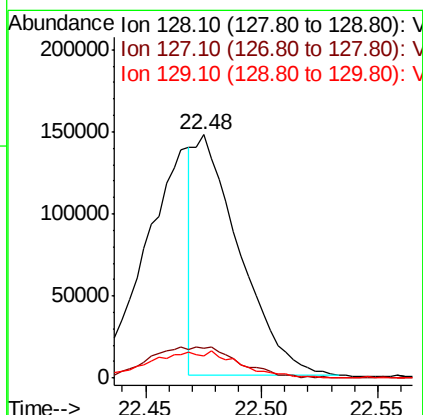
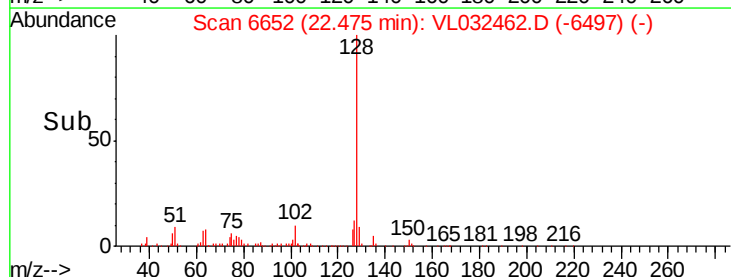
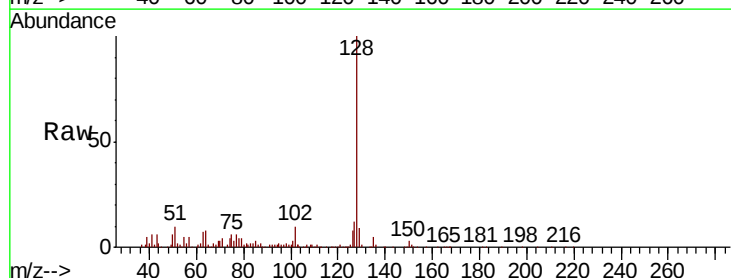
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3DL

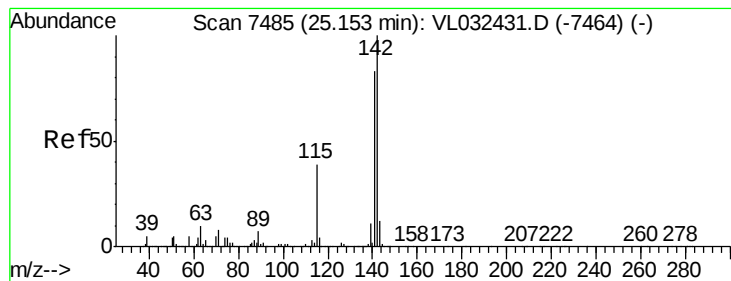
Tgt Ion:	105	Resp:	34869
Ion	Ratio	Lower	Upper
105	100		
120	39.3	37.8	56.8
91	13.2	41.4	62.0#
77	10.3	18.6	28.0#



#79
 Naphthalene
 Concen: 0.589 ppbv
 RT: 22.48 min Scan# 6652
 Delta R.T. -0.00 min
 Lab File: VL032462.D
 Acq: 5 Sep 2018 18:13

Tgt Ion:	128	Resp:	197763
Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.2	15.2
129	9.0	8.5	12.7





#80

Naphthalene, 2-methyl-

Concen: 0.607 ppbv

RT: 25.16 min Scan# 7486

Delta R.T. 0.00 min

Lab File: VL032462.D

Acq: 5 Sep 2018 18:13

Instrument :

MSVOA_L

ClientSampleId :

VP-3DL

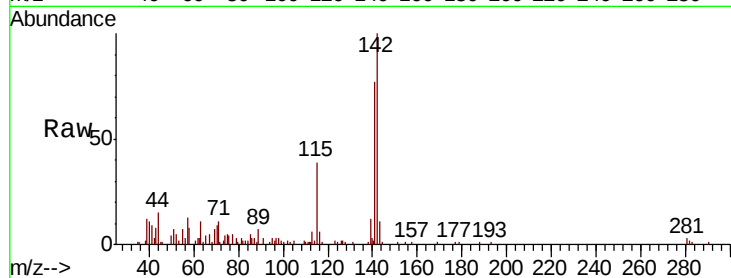
Tgt Ion:142 Resp: 54227

Ion Ratio Lower Upper

142 100

141 86.8 67.0 100.6

115 43.7 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

