

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038724.D
 Acq On : 23 Mar 2022 20:31
 Operator : SY/AP
 Sample : N2047-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 04:35:16 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	747298	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	1992083	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1796639	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1276485	9.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.70%

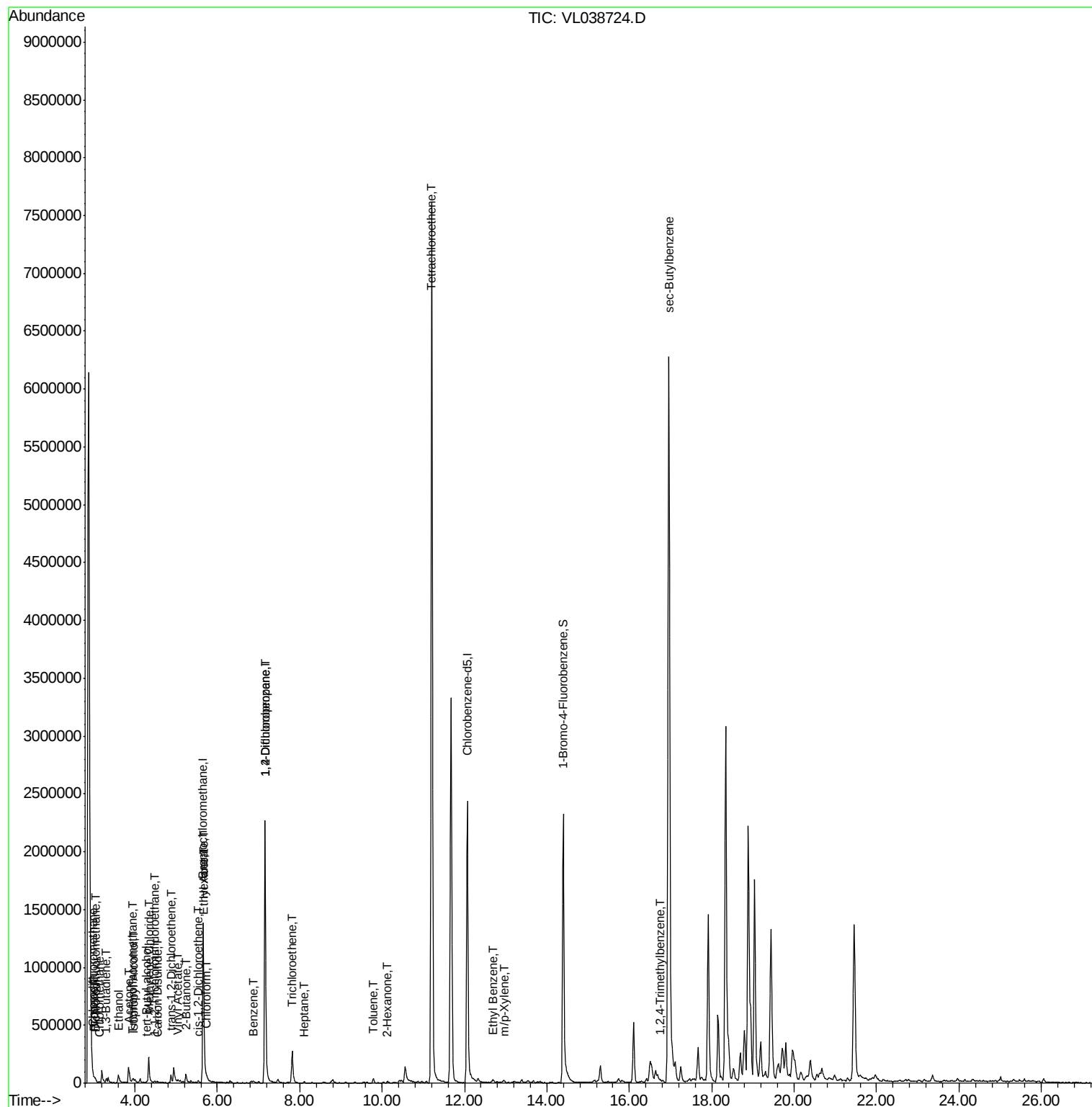
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	26660	0.265	ppbv 96
3) Chlorodifluoromethane	2.99	51	27519	0.349	ppbv 95
4) Chloromethane	3.13	50	2106	0.049	ppbv # 85
9) Propene	3.00	41	4014	0.105	ppbv # 1
10) Heptane	8.11	43	3272	0.036	ppbv # 56
11) Trichlorofluoromethane	3.94	101	11994	0.135	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	5202	0.076	ppbv 93
13) Ethanol	3.60	45	92363	21.974	ppbv 94
15) Acetone	3.84	43	175799	2.726	ppbv 95
16) 1,3-Butadiene	3.30	39	10661	0.291	ppbv # 16
17) tert-Butyl alcohol	4.29	59	12603	0.224	ppbv # 93
19) Isopropyl Alcohol	3.96	45	24493	0.685	ppbv # 57
20) Methylene Chloride	4.33	84	95532	3.517	ppbv 97
22) trans-1,2-Dichloroethene	4.87	96	23819	0.749	ppbv 96
23) Vinyl Acetate	5.05	43	8854	0.142	ppbv # 57
25) Ethyl Acetate	5.67	43	46988	0.289	ppbv # 82
26) Hexane	5.67	57	65242	0.898	ppbv # 40
27) Carbon Disulfide	4.54	76	16054	0.225	ppbv # 87
29) Chloroform	5.74	83	16977	0.146	ppbv 84
31) cis-1,2-Dichloroethene	5.53	61	13055	0.191	ppbv 92
34) 2-Butanone	5.24	43	106207	1.347	ppbv 96
36) Benzene	6.87	78	13524	0.088	ppbv # 93
38) Trichloroethene	7.82	130	97343	1.511	ppbv 97
39) 1,2-Dichloropropane	7.16	63	466299	7.758	ppbv # 28
51) 2-Hexanone	10.13	43	9710	0.092	ppbv # 91
52) Tetrachloroethene	11.21	164	2299863	40.877	ppbv 96
53) Toluene	9.79	91	31991	0.194	ppbv 97
58) Ethyl Benzene	12.69	91	7782	0.037	ppbv 96
59) m/p-Xylene	12.97	91	5531	0.030	ppbv # 30
67) sec-Butylbenzene	16.96	105	17599	0.052	ppbv 96
74) 1,2,4-Trimethylbenzene	16.73	105	6616	0.032	ppbv # 67

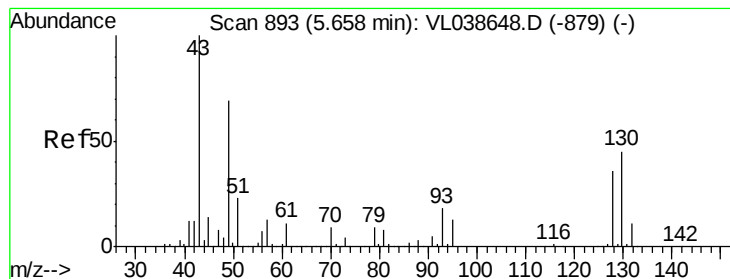
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 20:31

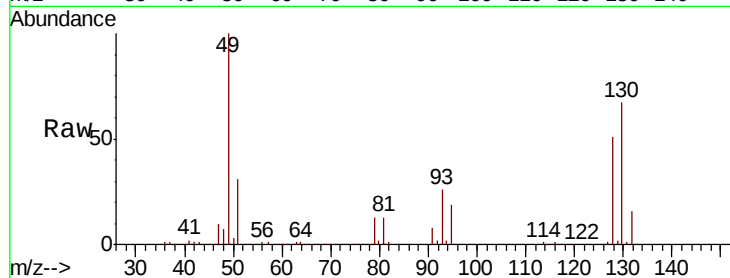
Tot Ion: 49 Resp: 747298

Ion Ratio Lower Upper

49 100

128 56.3 26.2 78.6

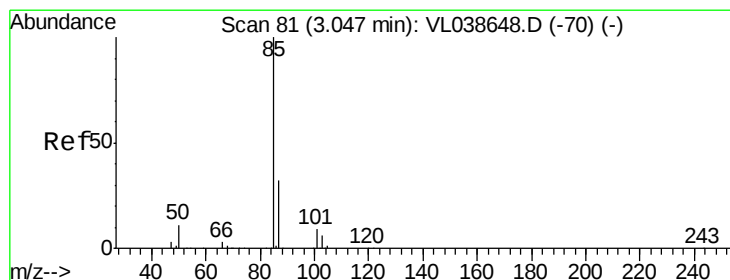
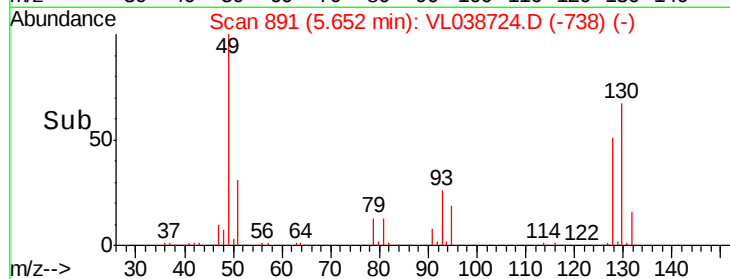
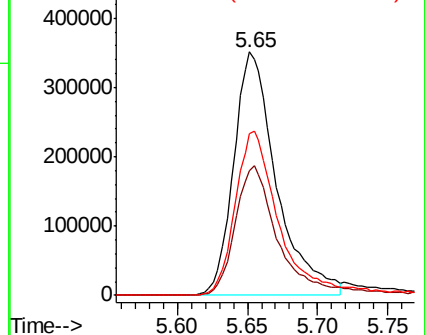
130 72.4 33.7 101.1



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: 0.265 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL038724.D

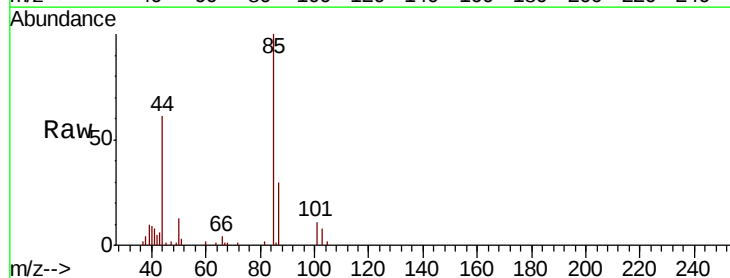
Acq: 23 Mar 2022 20:31

Tgt Ion: 85 Resp: 26660

Ion Ratio Lower Upper

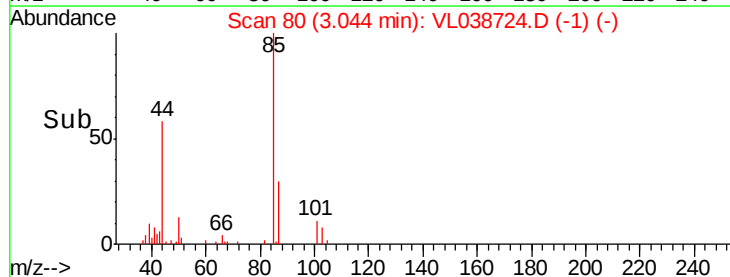
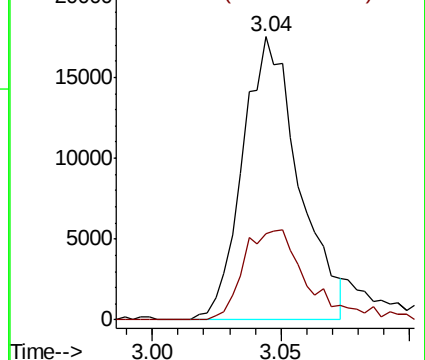
85 100

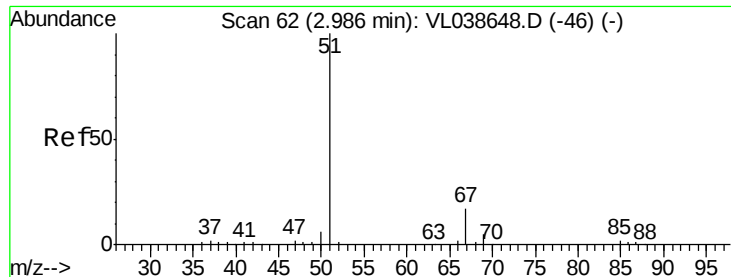
87 30.4 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.349 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

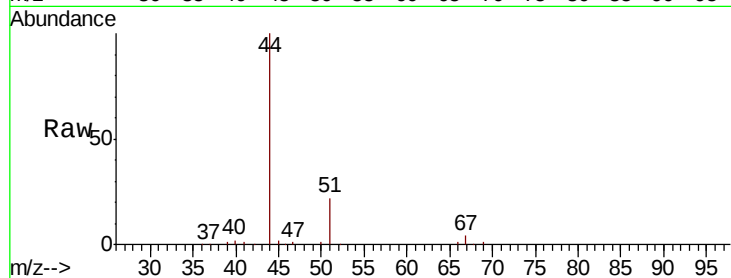
Acq: 23 Mar 2022 20:31

Tot Ion: 51 Resp: 27519

Ion Ratio Lower Upper

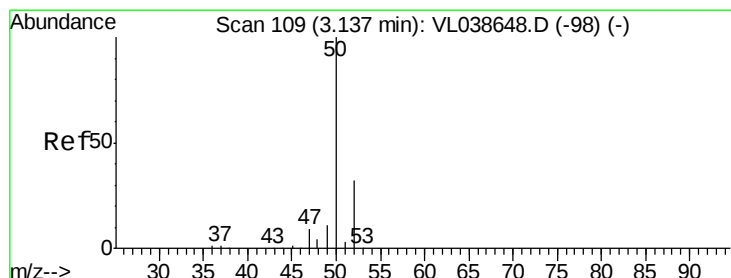
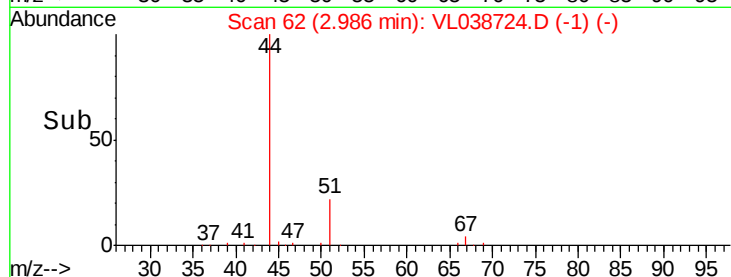
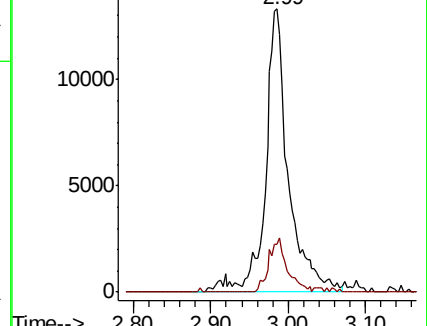
51 100

67 15.4 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.049 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL038724.D

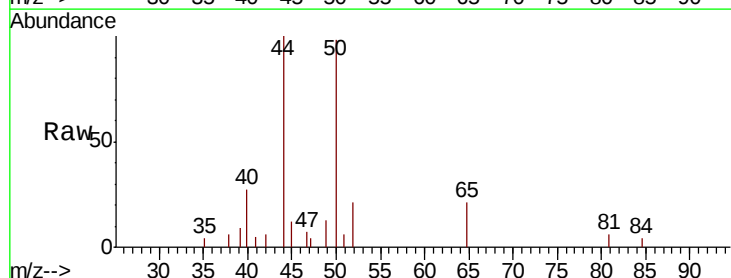
Acq: 23 Mar 2022 20:31

Tgt Ion: 50 Resp: 2106

Ion Ratio Lower Upper

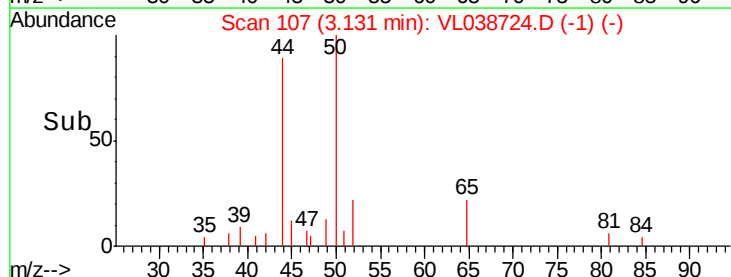
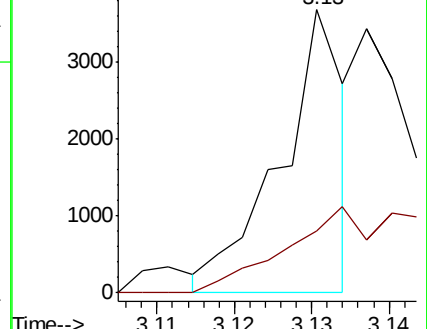
50 100

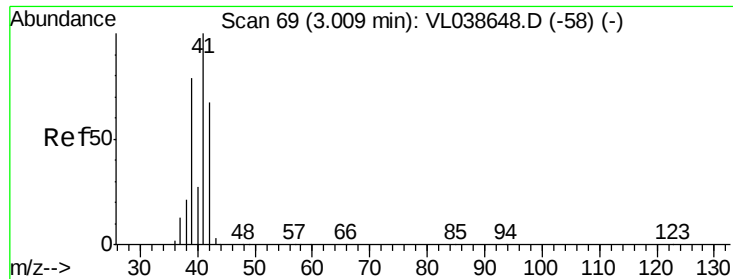
52 23.3 25.5 38.3#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.105 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

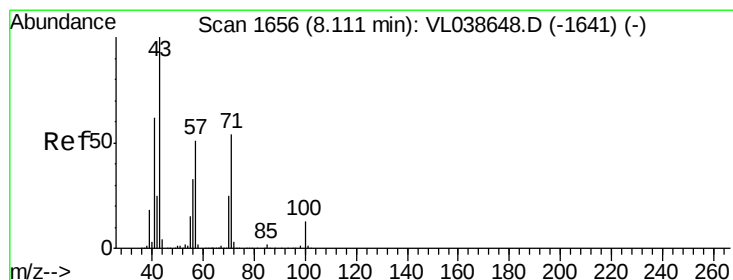
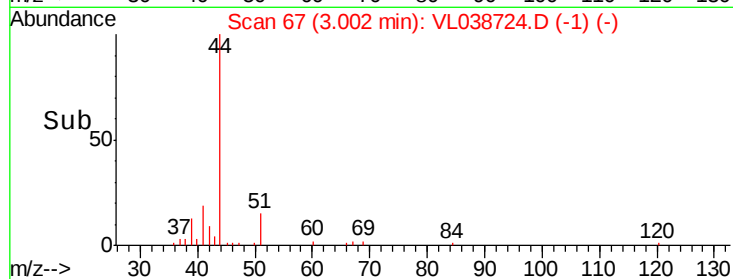
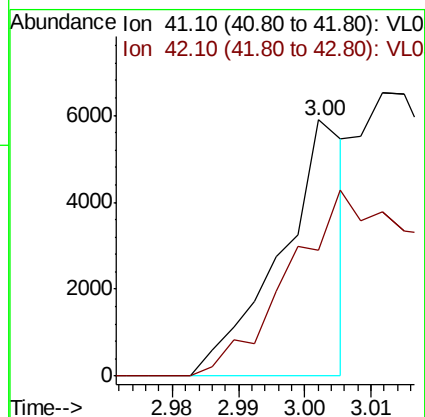
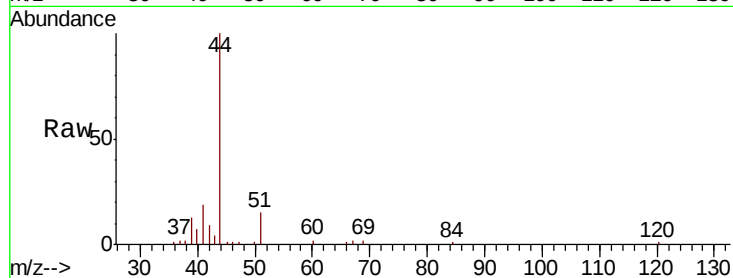
Acq: 23 Mar 2022 20:31

Tot Ion: 41 Resp: 4014

Ion Ratio Lower Upper

41 100

42 217.7 56.2 84.4#



#10

Heptane

Concen: 0.036 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VL038724.D

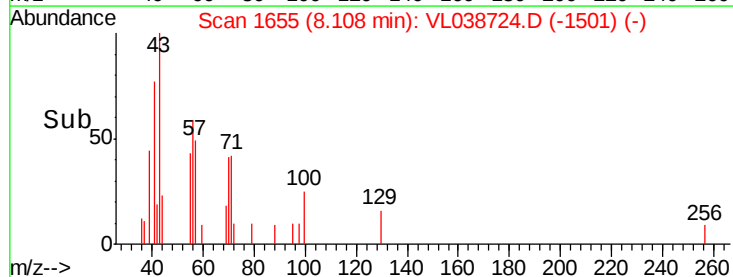
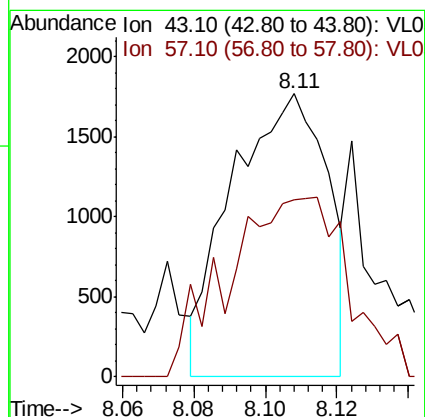
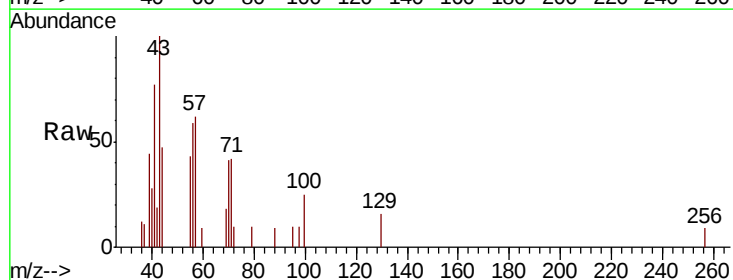
Acq: 23 Mar 2022 20:31

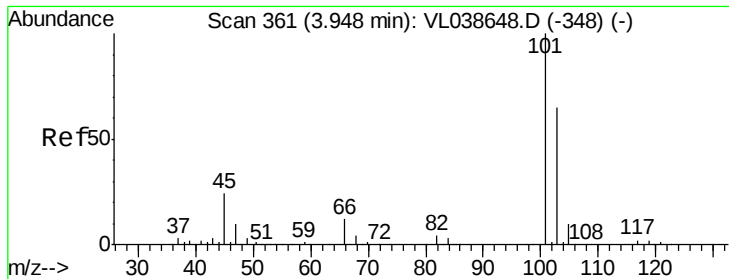
Tgt Ion: 43 Resp: 3272

Ion Ratio Lower Upper

43 100

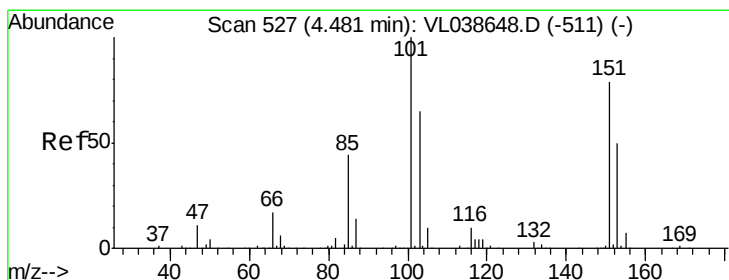
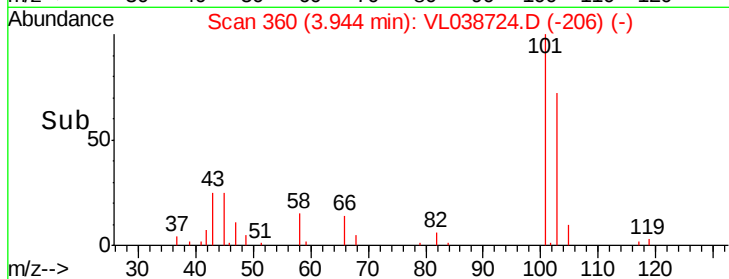
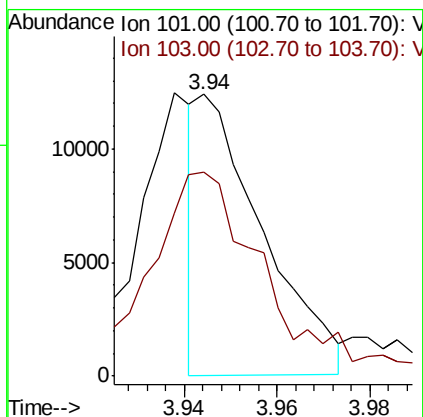
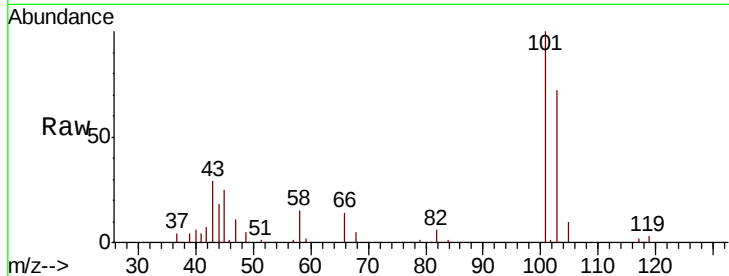
57 82.6 41.4 62.2#





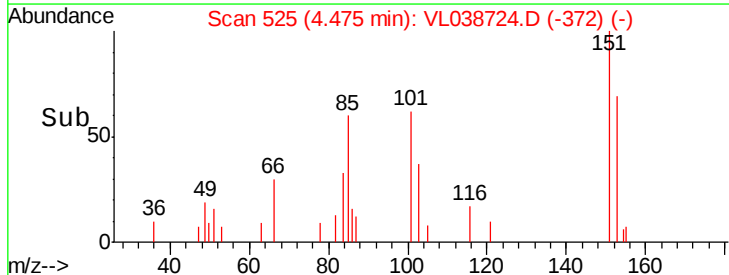
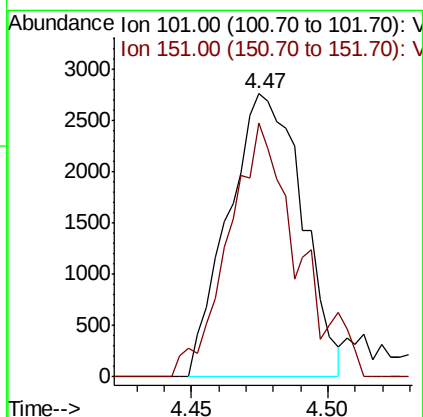
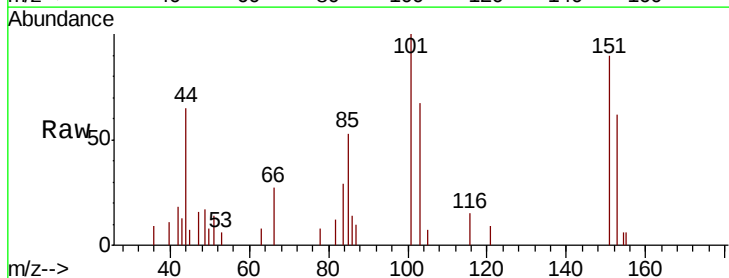
#11
 Trichlorofluoromethane
 Concen: 0.135 ppbv
 RT: 3.94 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Mar 2022 20:31

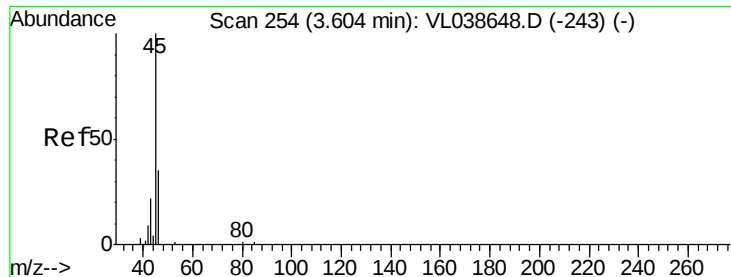
Tot Ion:101 Resp: 11994
 Ion Ratio Lower Upper
 101 100
 103 62.8 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.076 ppbv
 RT: 4.47 min Scan# 525
 Delta R.T. -0.01 min
 Lab File: VL038724.D
 Acq: 23 Mar 2022 20:31

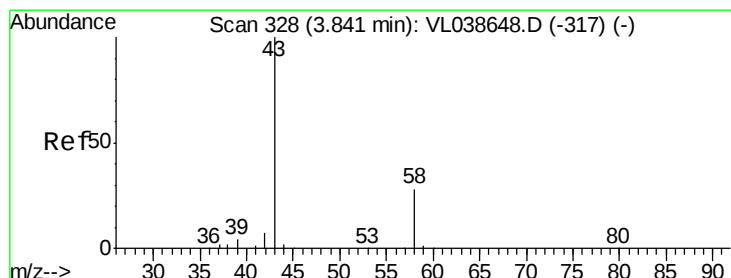
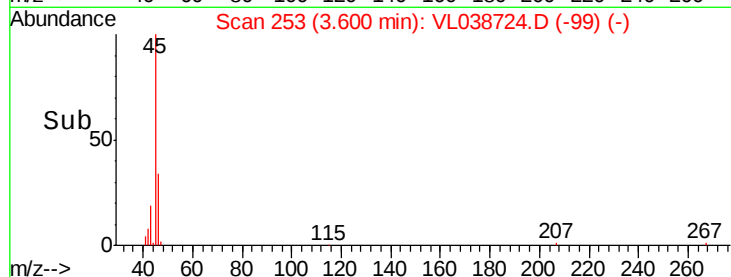
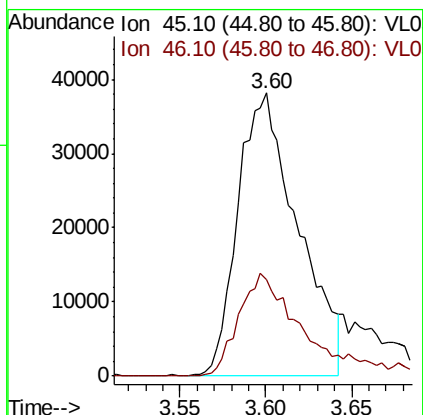
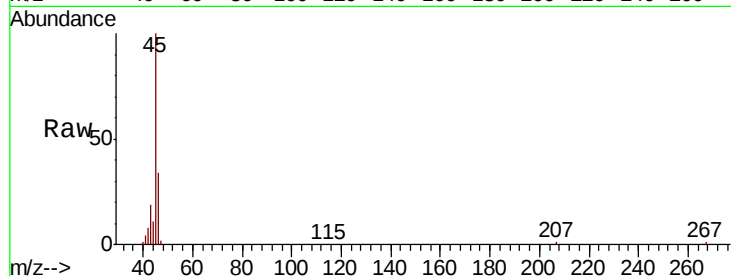
Tgt Ion:101 Resp: 5202
 Ion Ratio Lower Upper
 101 100
 151 84.3 62.9 94.3





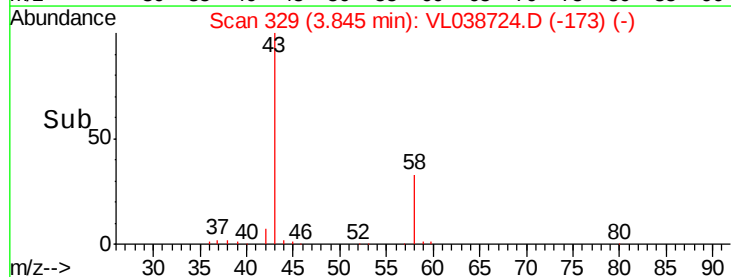
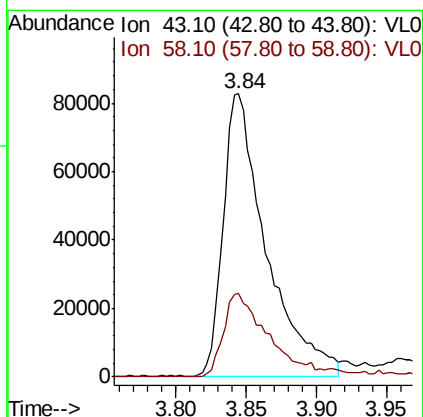
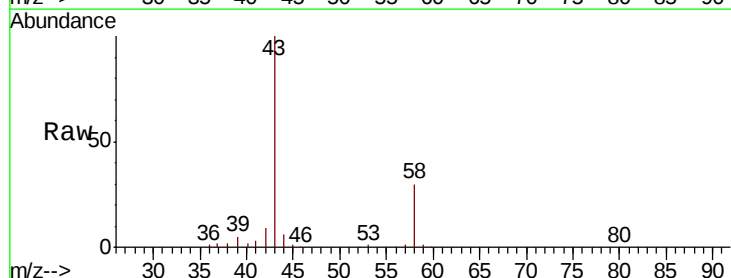
#13
Ethanol
Concen: 21.974 ppbv
RT: 3.60
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 20:31

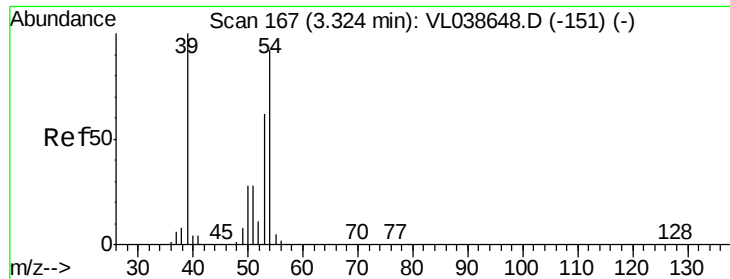
Tot Ion: 45 Resp: 92363
Ion Ratio Lower Upper
45 100
46 41.4 15.1 60.5



#15
Acetone
Concen: 2.726 ppbv
RT: 3.84 min Scan# 329
Delta R.T.: 0.00 min
Lab File: VL038724.D
Acq: 23 Mar 2022 20:31

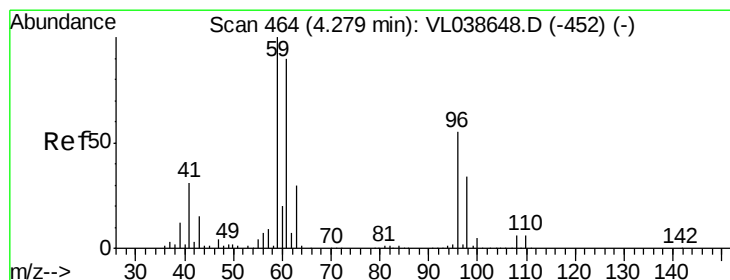
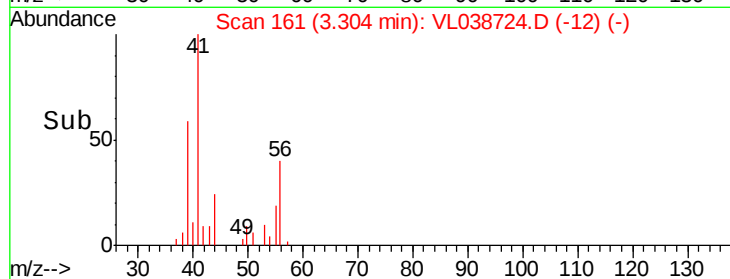
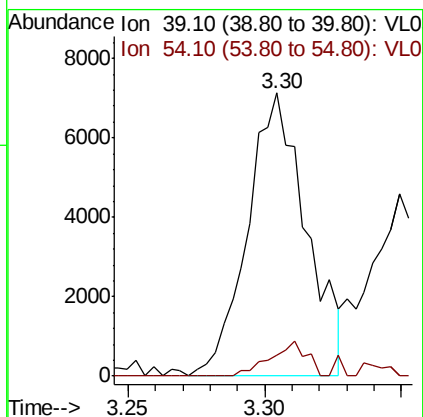
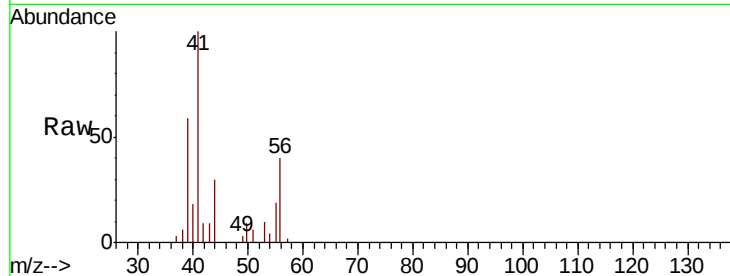
Tgt Ion: 43 Resp: 175799
Ion Ratio Lower Upper
43 100
58 31.8 23.3 34.9





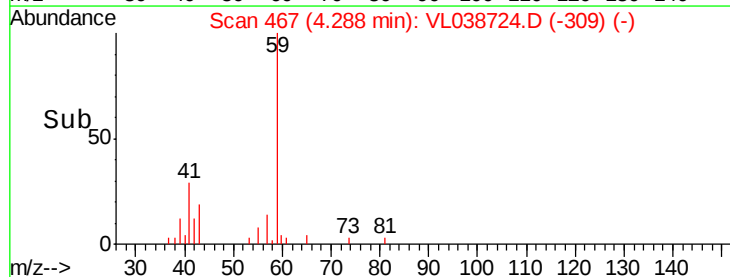
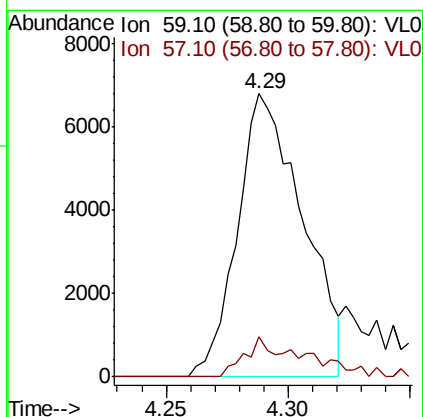
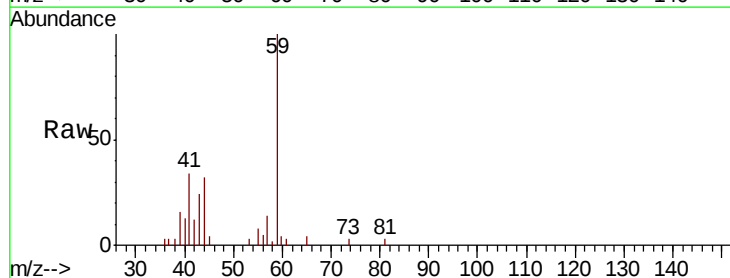
#16
 1,3-Butadiene
 Concen: 0.291 ppbv
 RT: 3.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 20:31

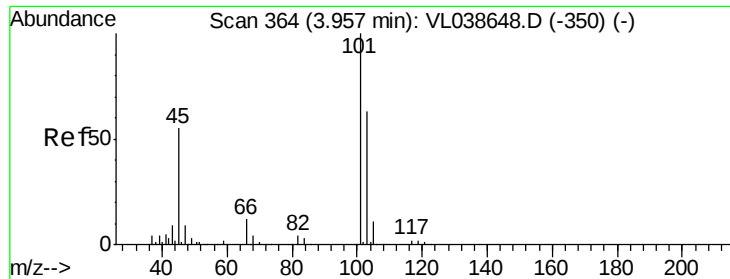
Tot Ion: 39 Resp: 10661
 Ion Ratio Lower Upper
 39 100
 54 8.6 69.1 103.7#



#17
 tert-Butyl alcohol
 Concen: 0.224 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. 0.01 min
 Lab File: VL038724.D
 Acq: 23 Mar 2022 20:31

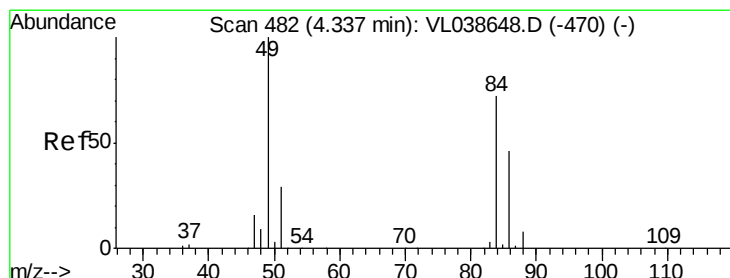
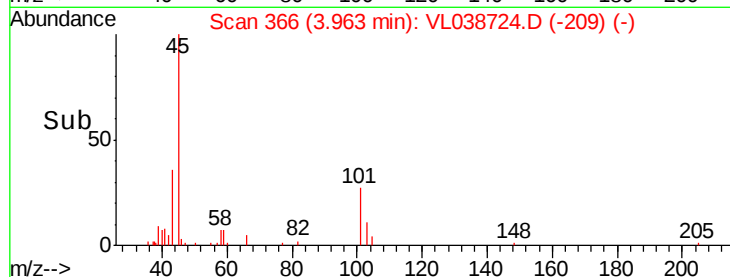
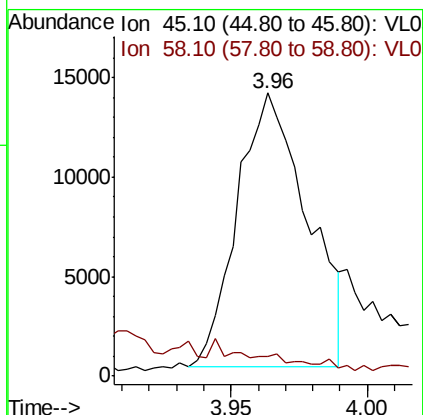
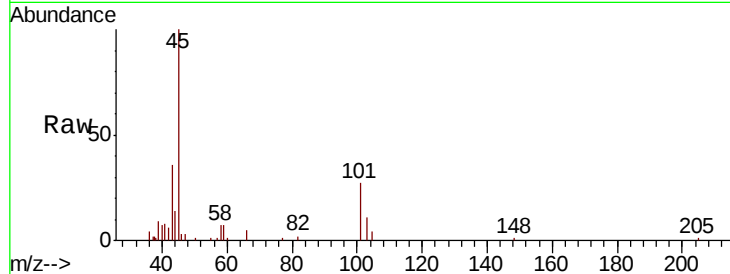
Tgt Ion: 59 Resp: 12603
 Ion Ratio Lower Upper
 59 100
 57 12.9 8.2 12.2#





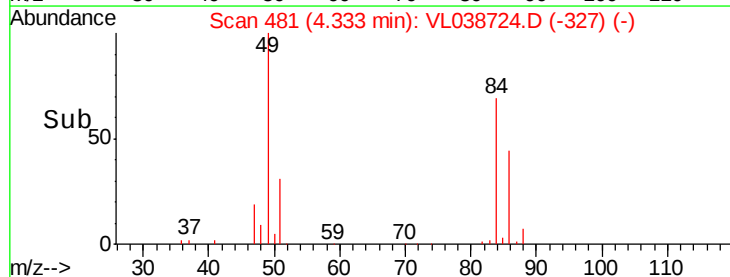
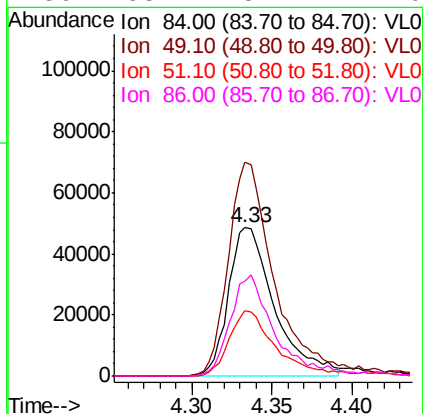
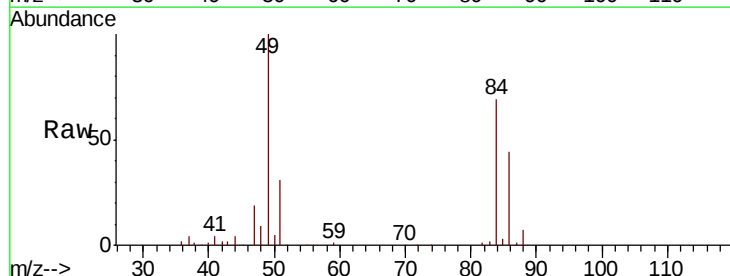
#19
Isopropyl Alcohol
Concen: 0.685 ppbv
RT: 3.96 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 20:31

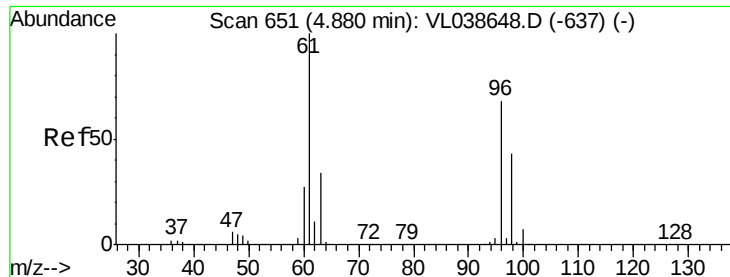
Tot Ion: 45 Resp: 24493
Ion Ratio Lower Upper
45 100
58 17.3 2.3 3.5#



#20
Methylene Chloride
Concen: 3.517 ppbv
RT: 4.33 min Scan# 481
Delta R.T.: -0.00 min
Lab File: VL038724.D
Acq: 23 Mar 2022 20:31

Tgt Ion: 84 Resp: 95532
Ion Ratio Lower Upper
84 100
49 143.9 111.2 166.8
51 43.9 32.8 49.2
86 63.7 51.4 77.0





#22

trans-1,2-Dichloroethene

Concen: 0.749 ppbv

RT: 4.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 20:31

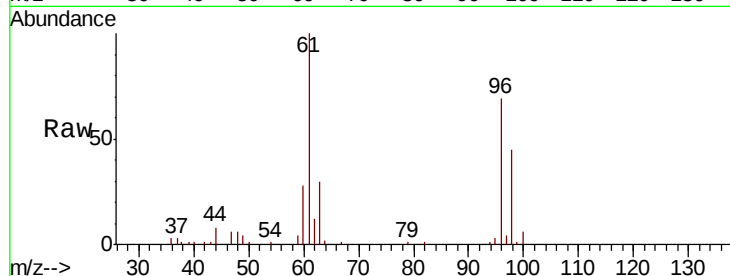
Tot Ion: 96 Resp: 23819

Ion Ratio Lower Upper

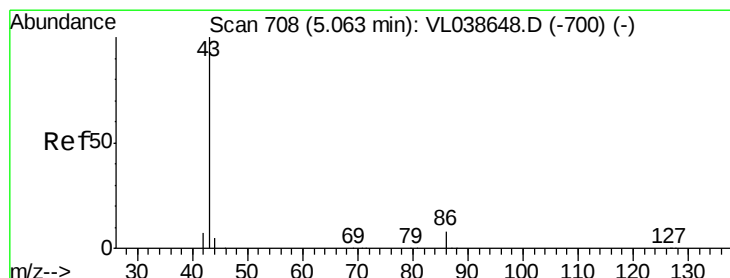
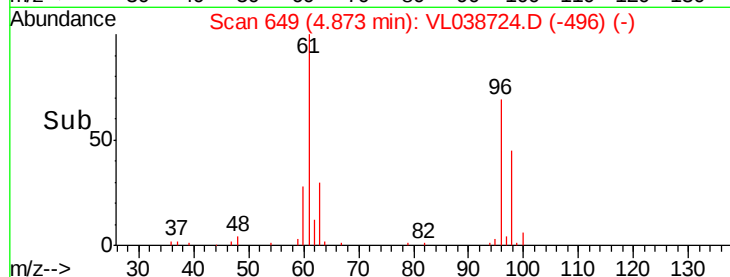
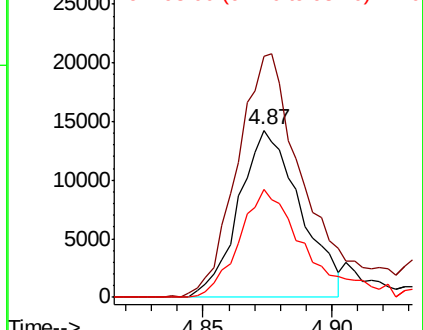
96 100

61 141.2 118.3 177.5

98 64.4 51.3 76.9



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.142 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.01 min

Lab File: VL038724.D

Acq: 23 Mar 2022 20:31

Tgt Ion: 43 Resp: 8854

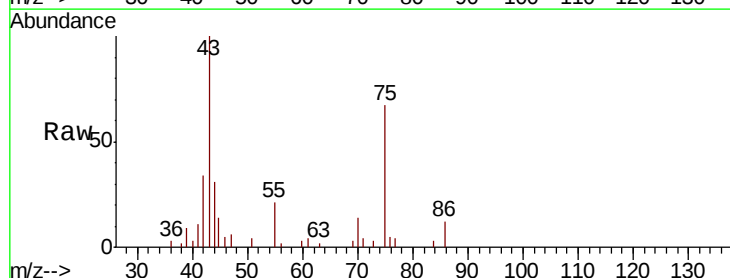
Ion Ratio Lower Upper

43 100

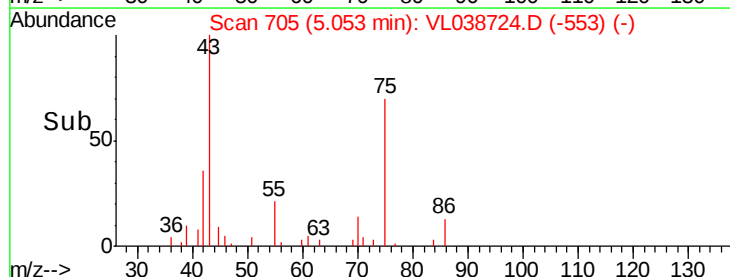
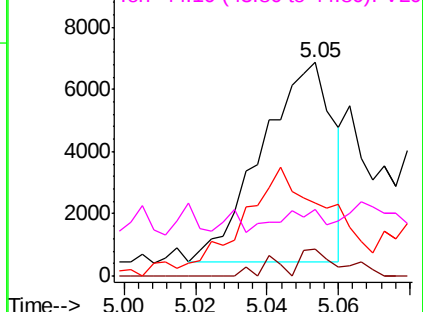
86 13.4 5.6 8.4#

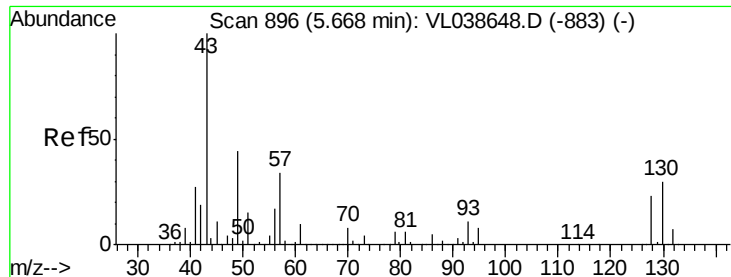
42 30.3 6.8 10.2#

44 20.8 4.2 6.2#



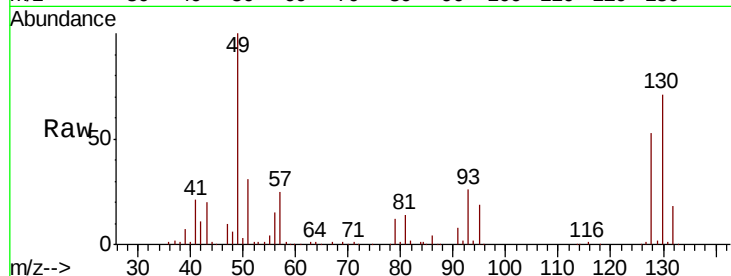
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





#25
Ethyl Acetate
Concen: 0.289 ppbv
RT: 5.67 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 20:31

Tot Ion:	43	Resp:	46988
Ion	Ratio	Lower	Upper
43	100		
45	4.7	8.2	12.4#
61	1.3	8.3	12.5#
70	2.2	5.6	8.4#



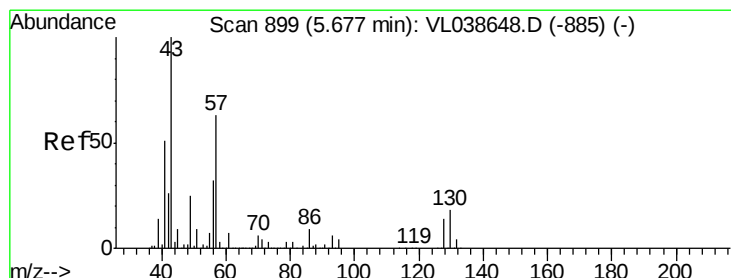
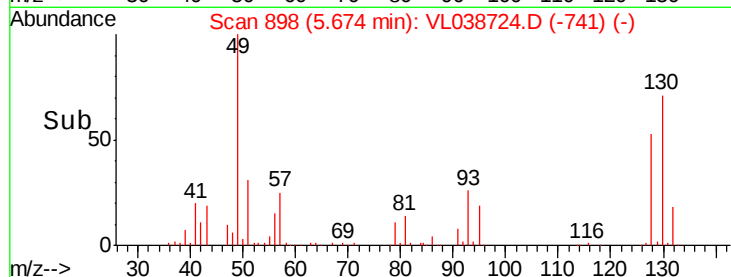
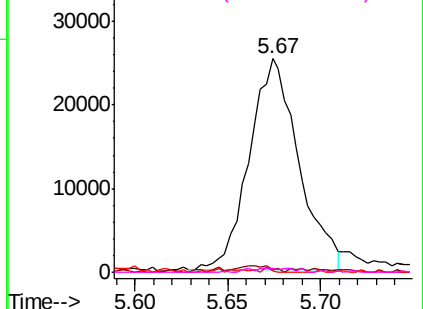
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

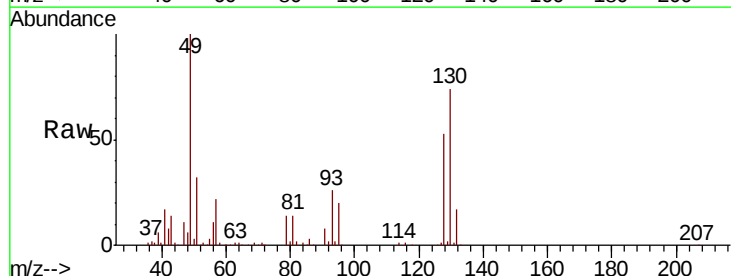
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.898 ppbv
RT: 5.67 min Scan# 897
Delta R.T.: -0.01 min
Lab File: VL038724.D
Acq: 23 Mar 2022 20:31

Tgt Ion:	57	Resp:	65242
Ion	Ratio	Lower	Upper
57	100		
41	91.8	67.0	100.4
43	78.5	184.2	276.2#
56	56.9	42.6	64.0



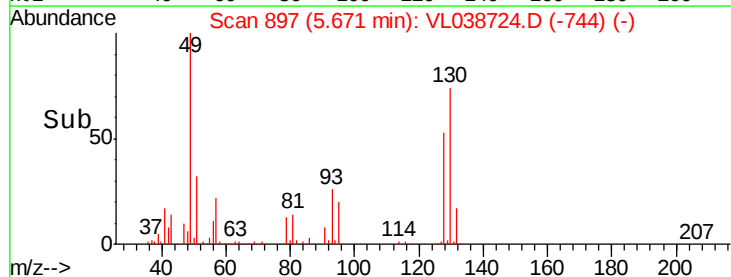
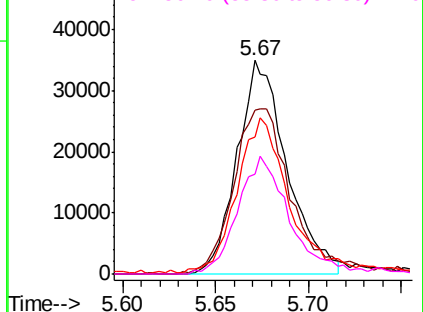
Abundance

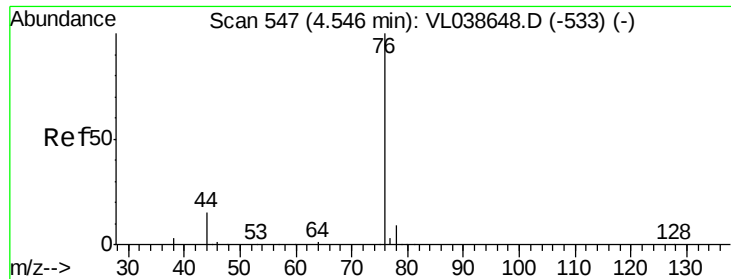
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.225 ppbv

RT: 4.54 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 20:31

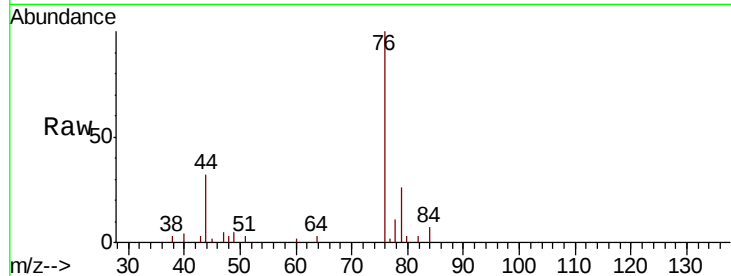
Tot Ion: 76 Resp: 16054

Ion Ratio Lower Upper

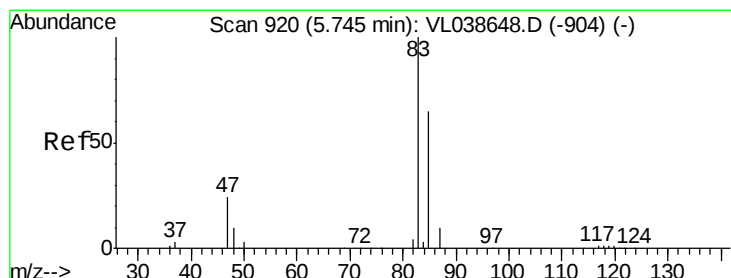
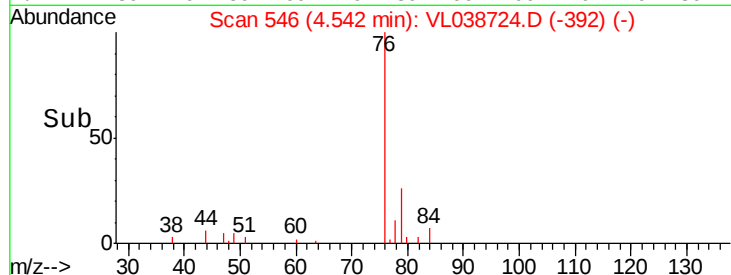
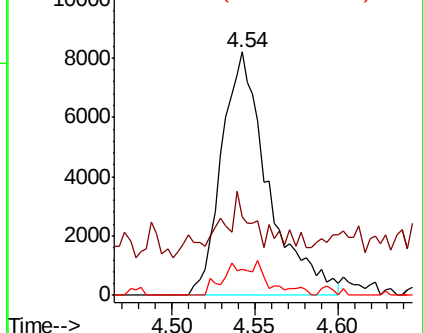
76 100

44 22.2 12.4 18.6#

78 13.3 7.8 11.8#



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: 0.146 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.01 min

Lab File: VL038724.D

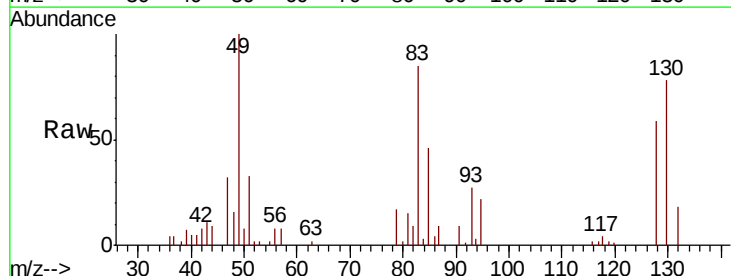
Acq: 23 Mar 2022 20:31

Tgt Ion: 83 Resp: 16977

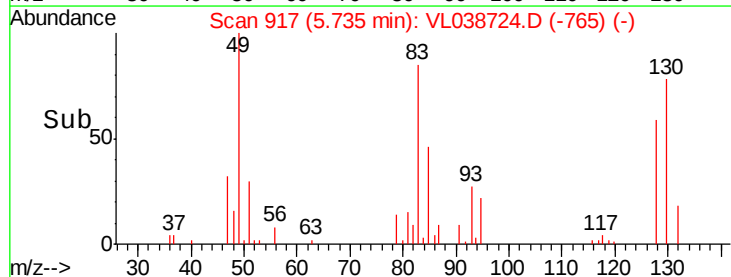
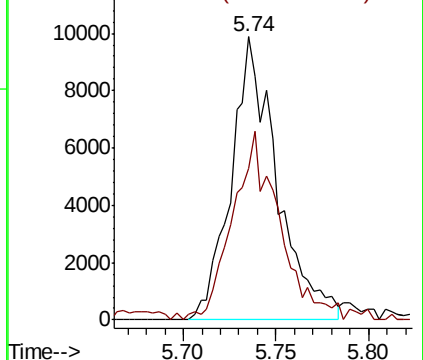
Ion Ratio Lower Upper

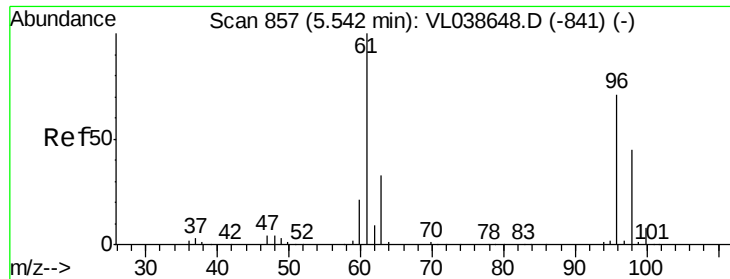
83 100

85 51.8 51.7 77.5



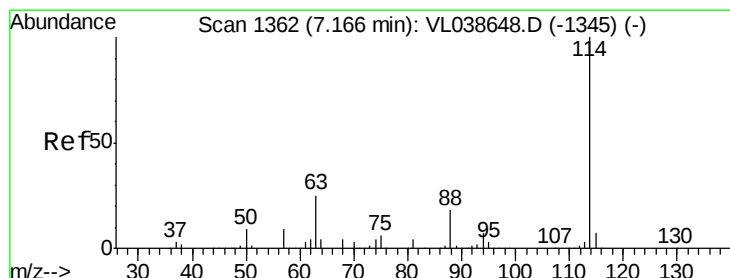
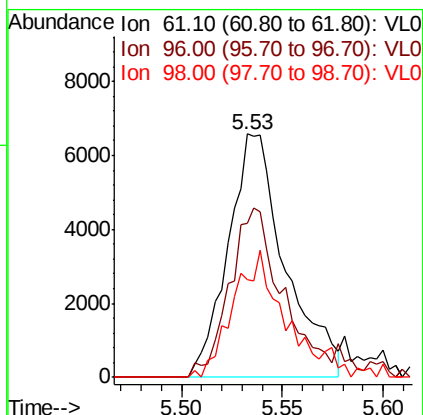
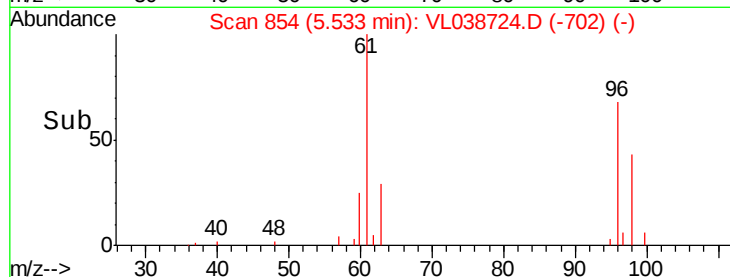
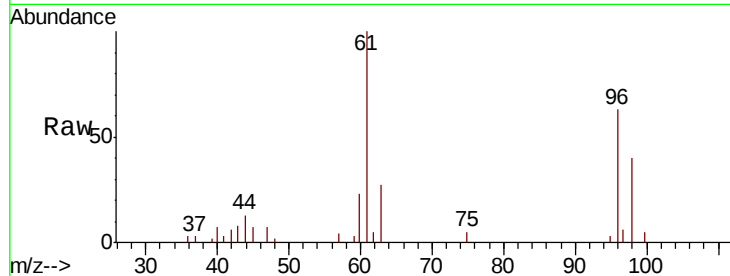
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





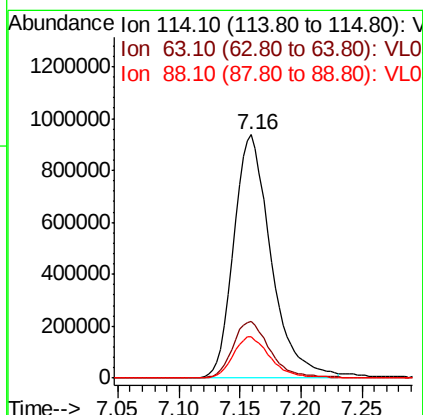
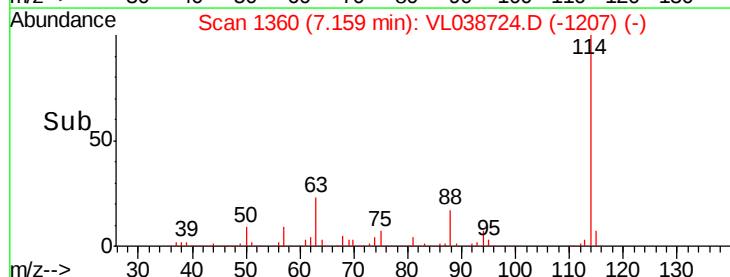
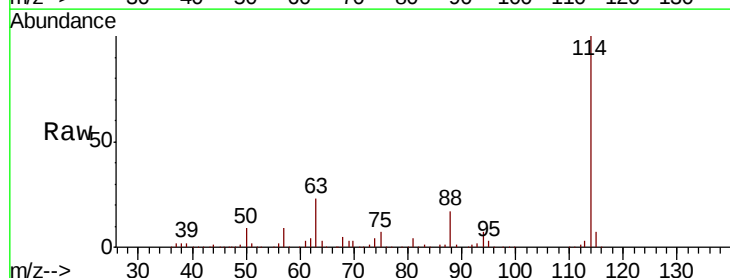
#31
 cis-1,2-Dichloroethene
 Concen: 0.191 ppbv
 RT: 5.53
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 20:31

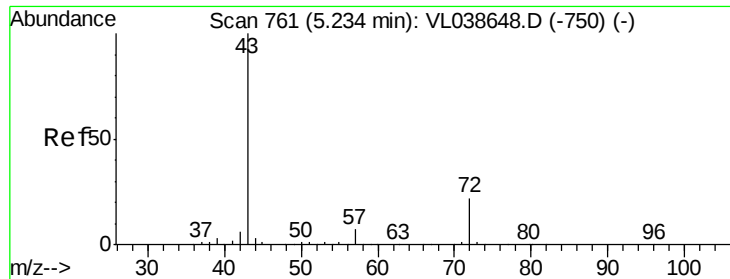
Tot Ion:	61	Resp:	13055
Ion	Ratio	Lower	Upper
61	100		
96	65.8	56.6	84.8
98	38.3	36.3	54.5



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.01 min
 Lab File: VL038724.D
 Acq: 23 Mar 2022 20:31

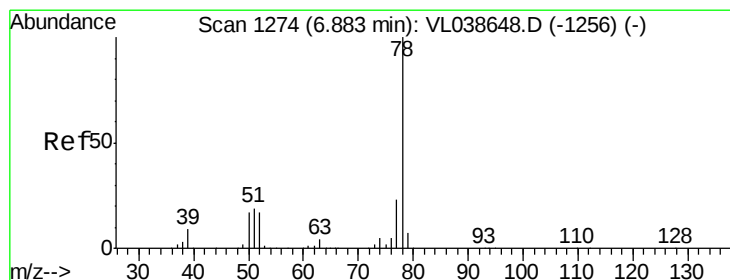
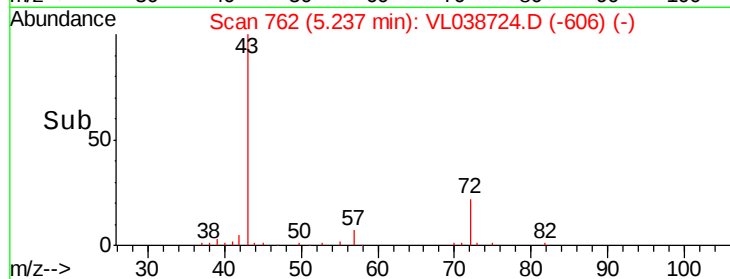
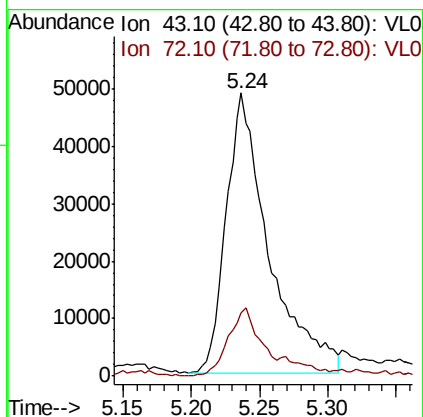
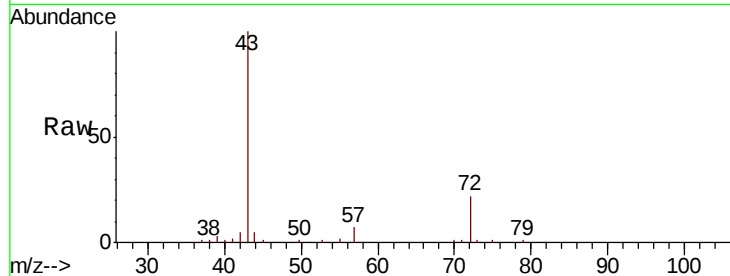
Tgt Ion:	114	Resp:	1992083
Ion	Ratio	Lower	Upper
114	100		
63	23.7	19.4	29.0
88	17.3	13.9	20.9





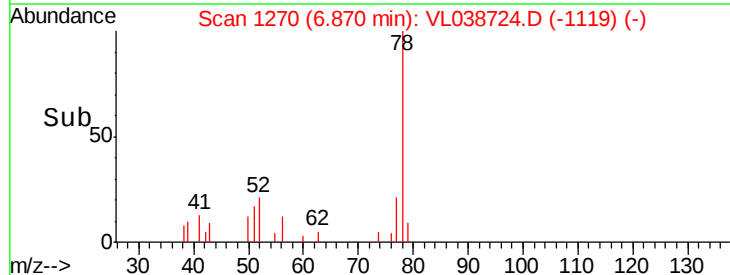
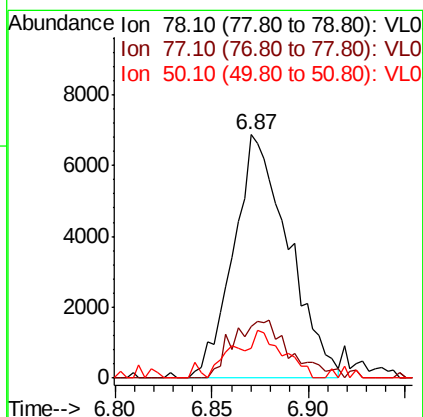
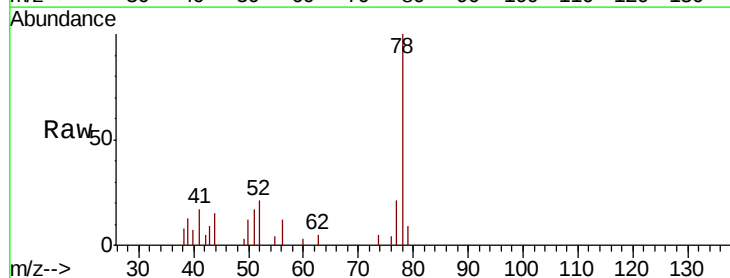
#34
 2-Butanone
 Concen: 1.347 ppbv
 RT: 5.24 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 20:31

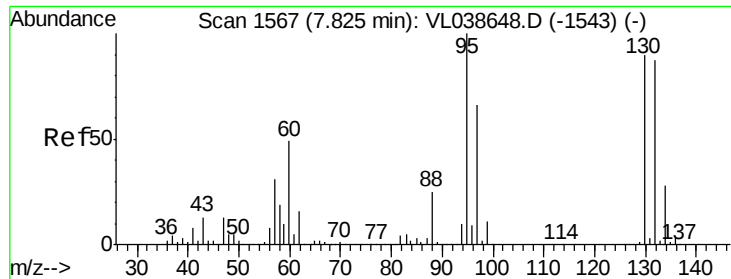
Tot Ion: 43 Resp: 106207
 Ion Ratio Lower Upper
 43 100
 72 24.4 17.8 26.8



#36
 Benzene
 Concen: 0.088 ppbv
 RT: 6.87 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: VL038724.D
 Acq: 23 Mar 2022 20:31

Tgt Ion: 78 Resp: 13524
 Ion Ratio Lower Upper
 78 100
 77 21.0 18.1 27.1
 50 12.3 13.6 20.4#





#38

Trichloroethene

Concen: 1.511 ppbv

RT: 7.82 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 20:31

Tot Ion:130 Resp: 97343

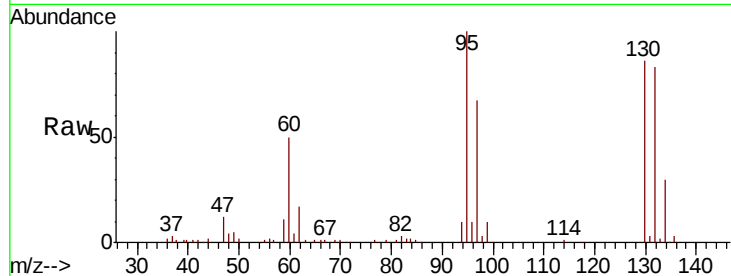
Ion Ratio Lower Upper

130 100

95 115.5 88.9 133.3

132 96.2 77.4 116.0

97 77.4 58.2 87.4

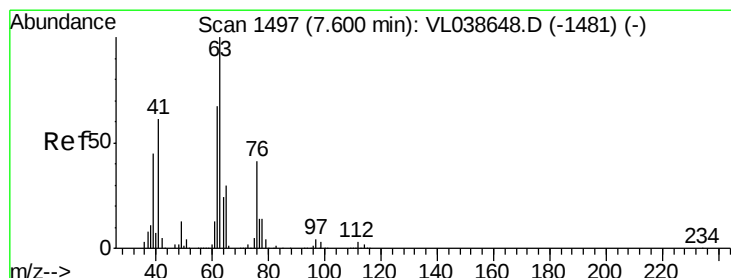
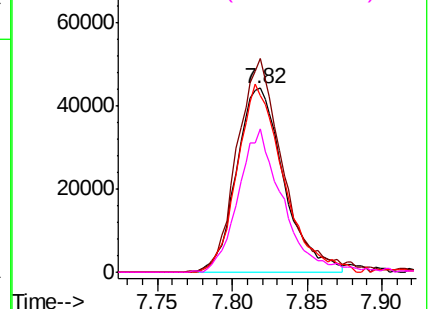
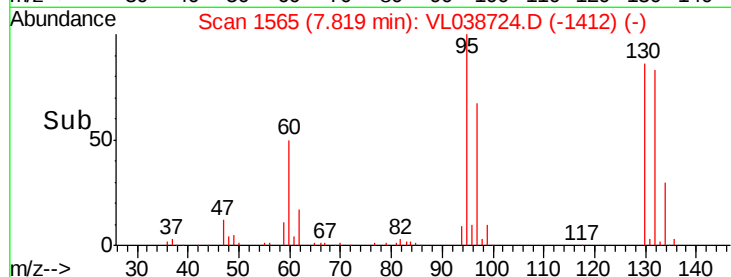


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.758 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.44 min

Lab File: VL038724.D

Acq: 23 Mar 2022 20:31

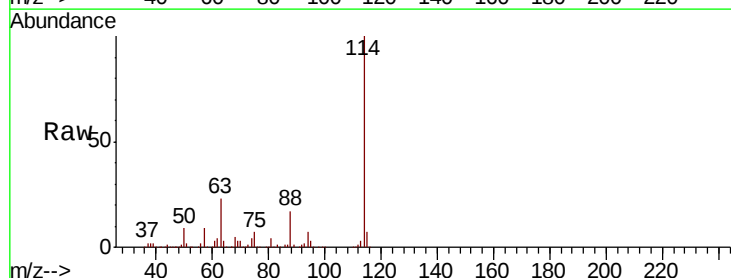
Tgt Ion: 63 Resp: 466299

Ion Ratio Lower Upper

63 100

41 0.0 49.0 73.6#

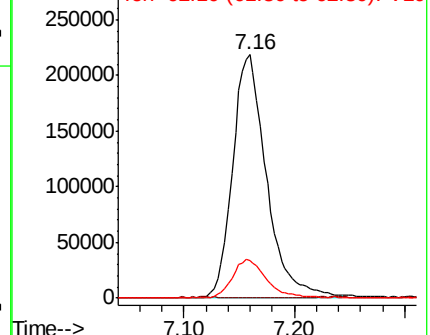
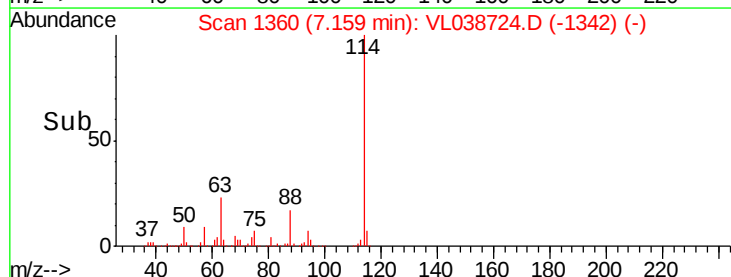
62 15.5 53.9 80.9#

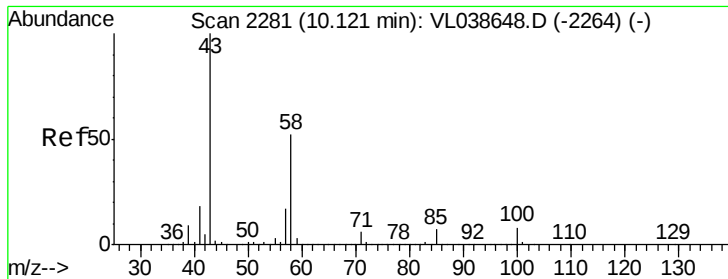


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#51

2-Hexanone

Concen: 0.092 ppbv

RT: 10.13

Delta R.T. MSVOA_L

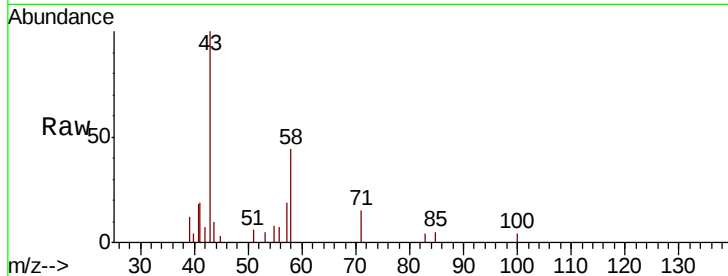
Lab File:

Acq: 23 Mar 2022 20:31

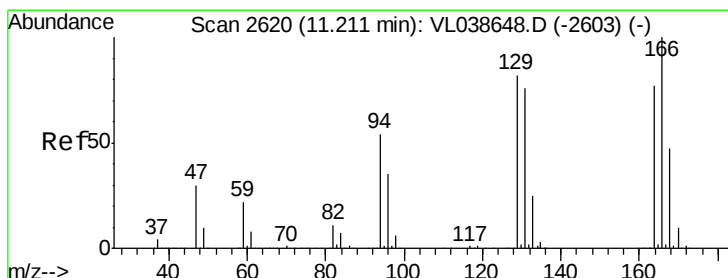
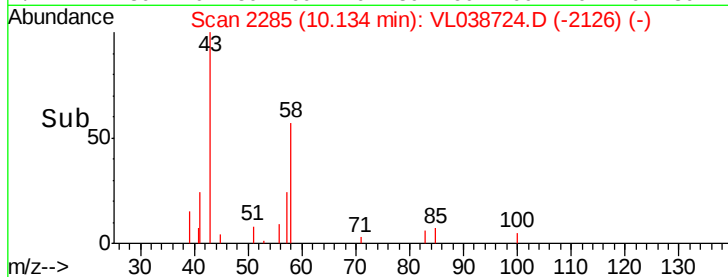
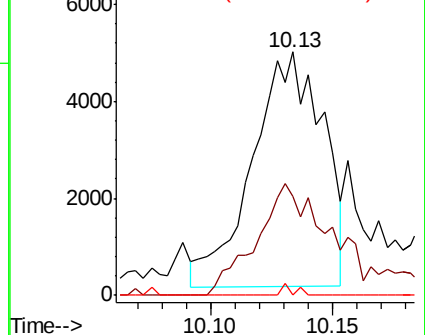
ClientSampleId :

Tot Ion: 43 Resp: 9710

Ion	Ratio	Lower	Upper
43	100		
58	57.6	41.2	61.8
98	0.0	0.2	0.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 40.877 ppbv

RT: 11.21 min Scan# 2619

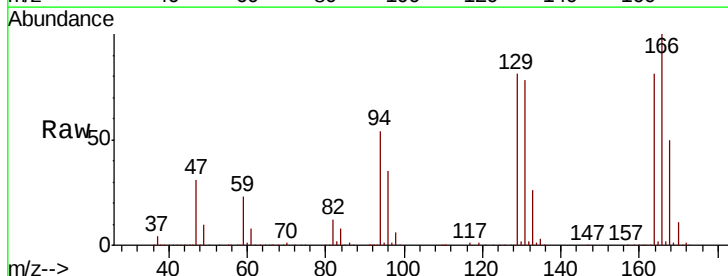
Delta R.T. -0.00 min

Lab File: VL038724.D

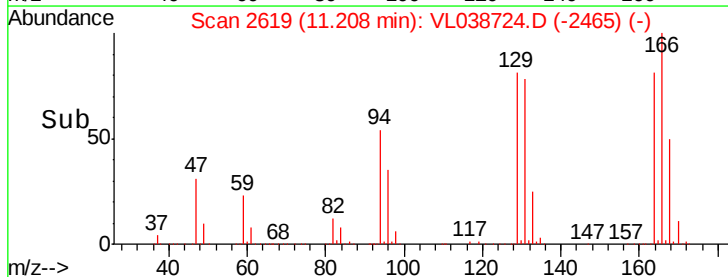
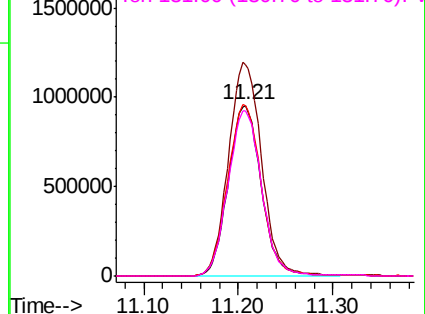
Acq: 23 Mar 2022 20:31

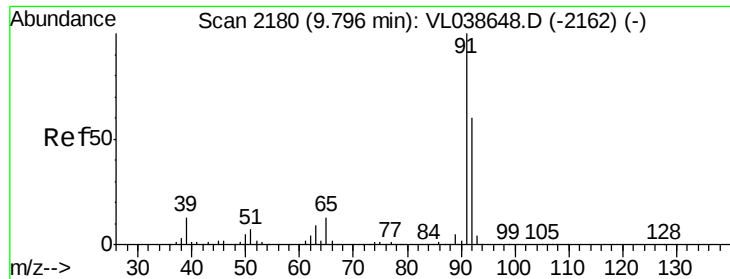
Tgt Ion:164 Resp: 2299863

Ion	Ratio	Lower	Upper
164	100		
166	123.5	103.3	154.9
129	99.9	85.2	127.8
131	96.4	78.3	117.5



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: 0.194 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

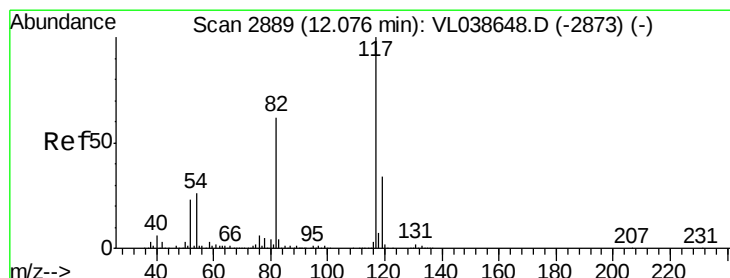
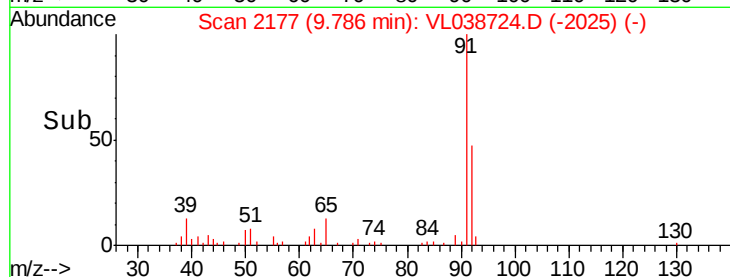
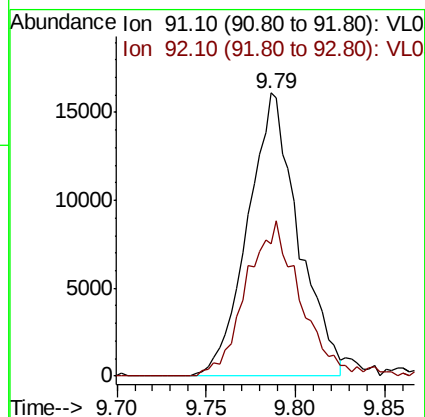
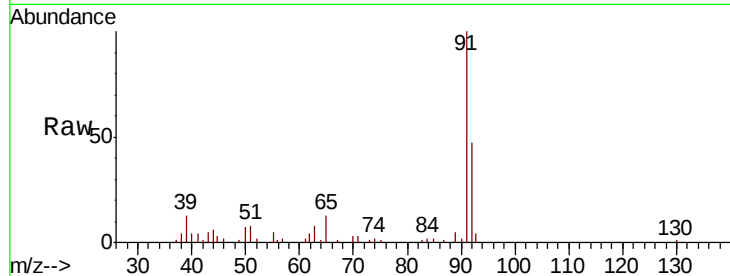
Acq: 23 Mar 2022 20:31

Tot Ion: 91 Resp: 31991

Ion Ratio Lower Upper

91 100

92 58.8 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL038724.D

Acq: 23 Mar 2022 20:31

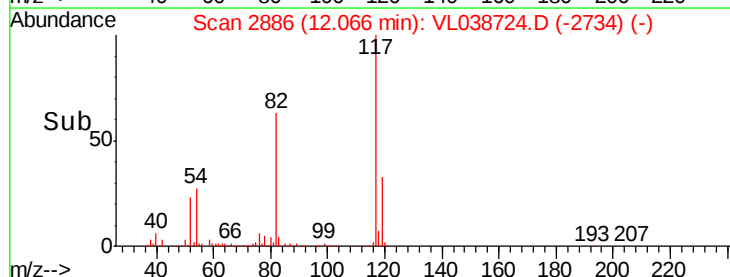
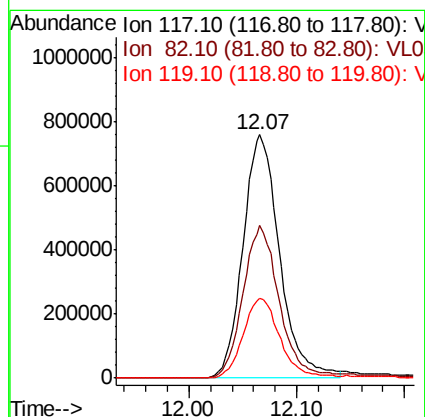
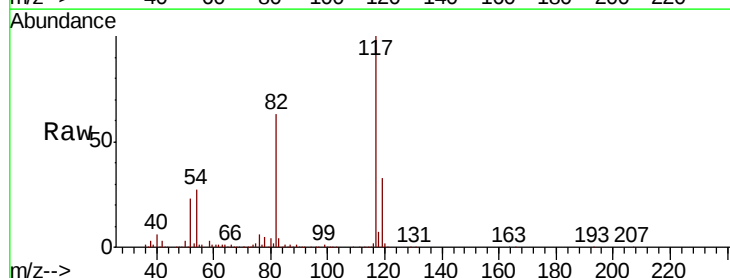
Tgt Ion: 117 Resp: 1796639

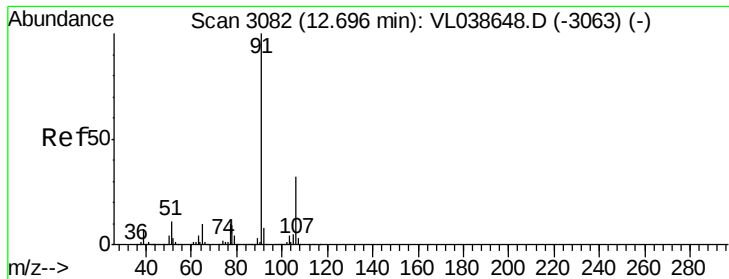
Ion Ratio Lower Upper

117 100

82 65.0 51.6 77.4

119 34.3 26.9 40.3





#58

Ethyl Benzene

Concen: 0.037 ppbv

RT: 12.69 min

Delta R.T. MSVOA_L

Lab File:

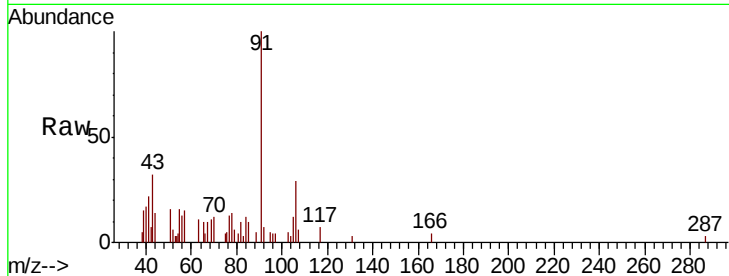
Acq: 23 Mar 2022 20:31

Tot Ion: 91 Resp: 7782

Ion Ratio Lower Upper

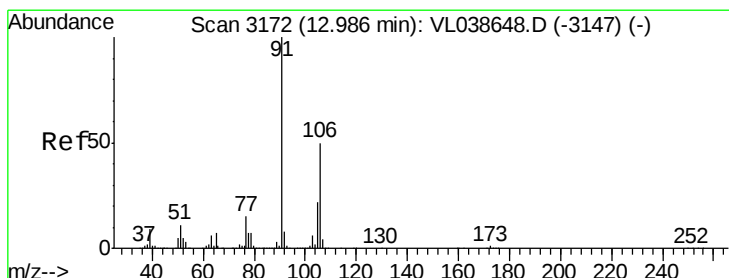
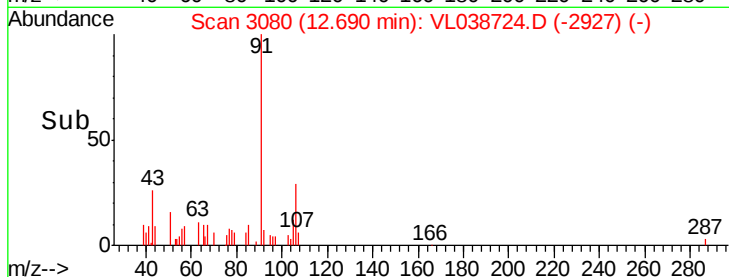
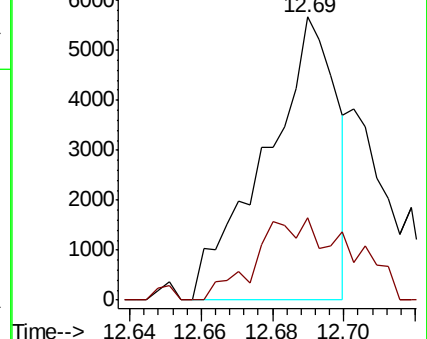
91 100

106 29.3 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.030 ppbv

RT: 12.97 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL038724.D

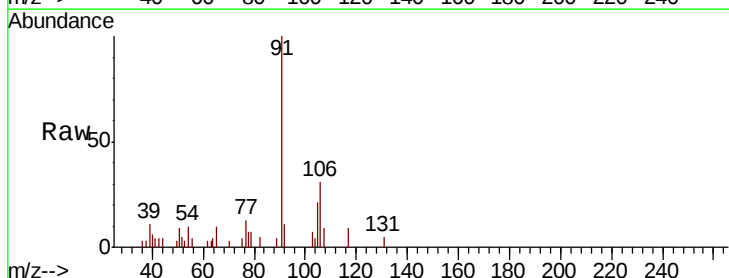
Acq: 23 Mar 2022 20:31

Tgt Ion: 91 Resp: 5531

Ion Ratio Lower Upper

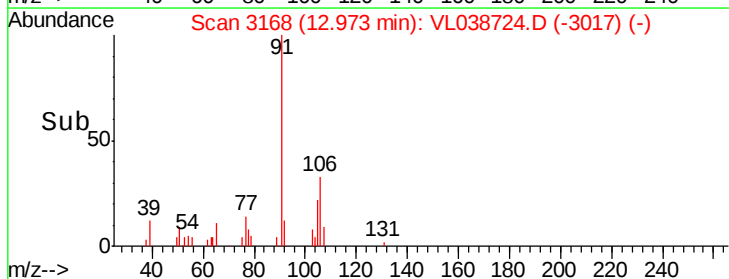
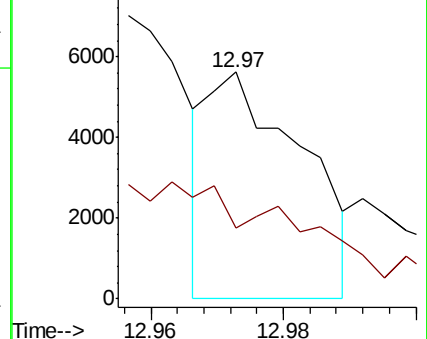
91 100

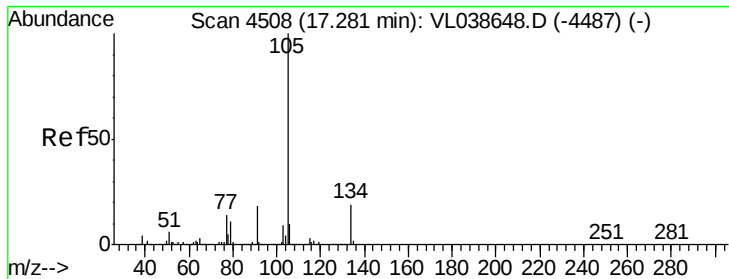
106 0.0 37.2 55.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#67

sec-Butylbenzene

Concen: 0.052 ppbv

RT: 16.96

Delta R.T. MSVOA_L

Lab File:

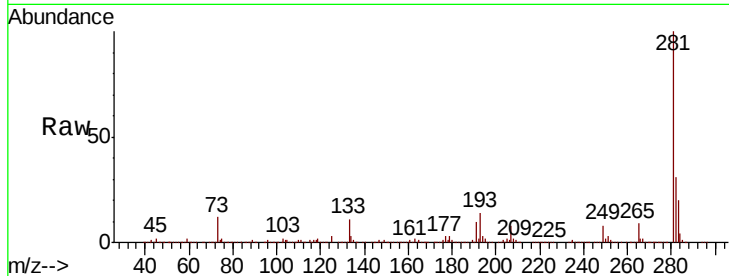
Acq: 23 Mar 2022 20:31

Tot Ion: 105 Resp: 17599

Ion Ratio Lower Upper

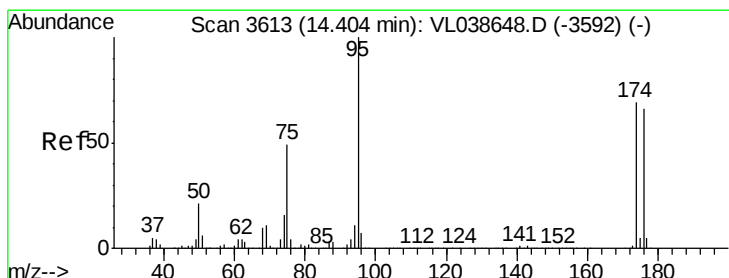
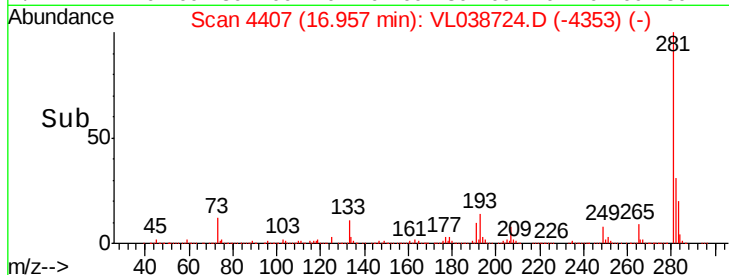
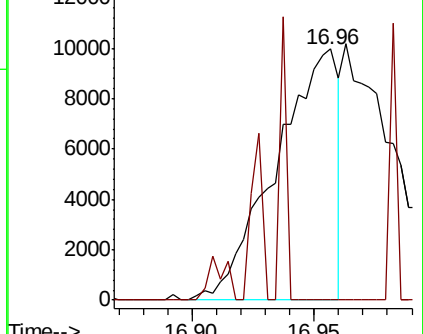
105 100

134 17.0 15.1 22.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.267 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. -0.01 min

Lab File: VL038724.D

Acq: 23 Mar 2022 20:31

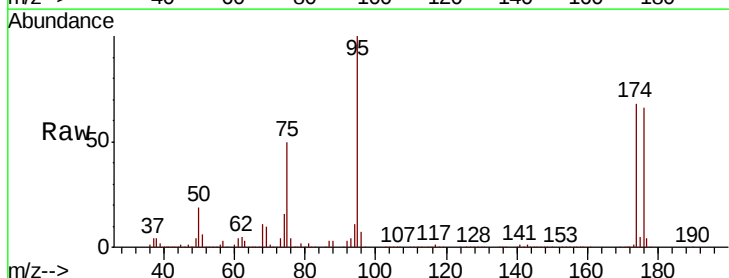
Tgt Ion: 95 Resp: 1276485

Ion Ratio Lower Upper

95 100

174 73.9 56.1 84.1

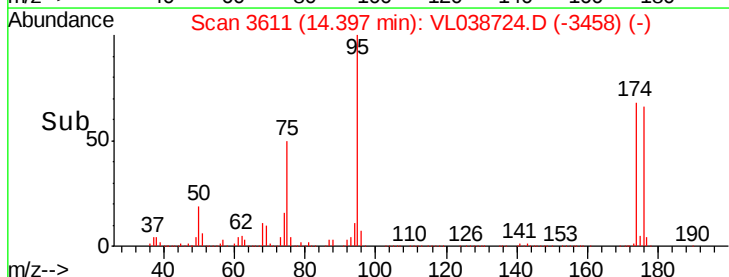
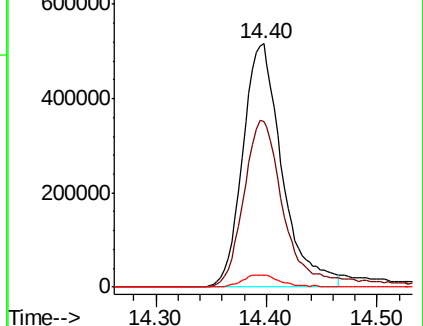
175 5.4 4.2 6.2

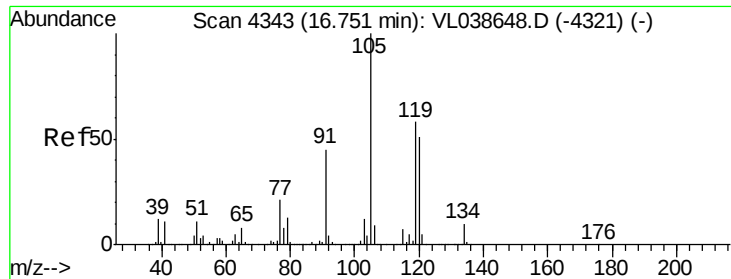


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.032 ppbv
 RT: 16.73
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 20:31

Tot Ion:	105	Resp:	6616
Ion	Ratio	Lower	Upper
105	100		
120	32.0	40.5	60.7#
91	18.2	35.9	53.9#
77	7.3	16.6	25.0#

