

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038738.D
 Acq On : 24 Mar 2022 5:48
 Operator : SY/AP
 Sample : N2051-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P92

Quant Time: Mar 24 07:52:31 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	5.67	49	737051	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2002445	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1799243	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1315577	9.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.40%

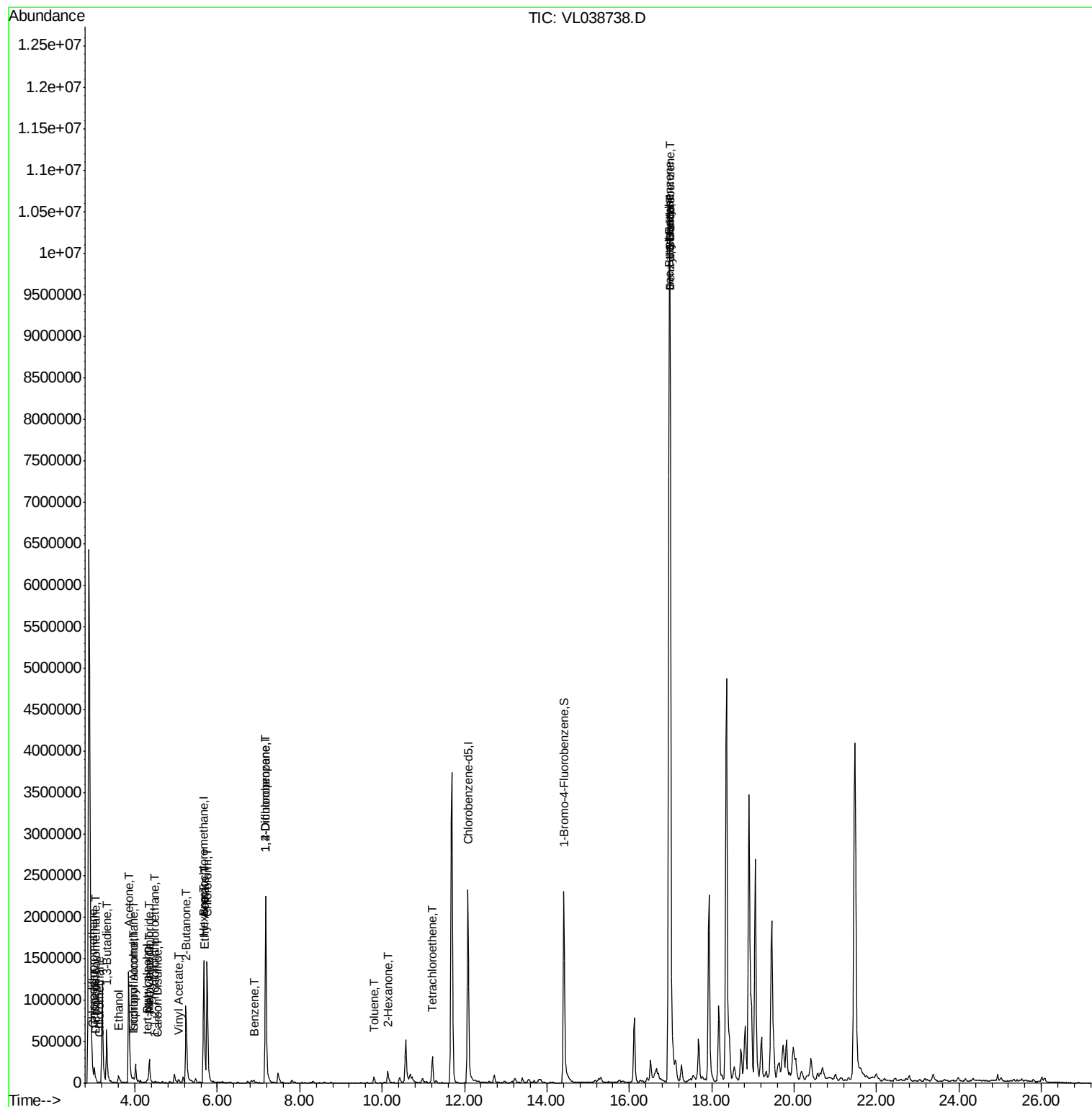
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	28652	0.289	ppbv	94
3) Chlorodifluoromethane	2.99	51	22707	0.292	ppbv	95
4) Chloromethane	3.15	50	7528	0.176	ppbv #	85
9) Propene	3.01	41	78892	2.099	ppbv	99
11) Trichlorofluoromethane	3.95	101	24341	0.278	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.48	101	5223	0.078	ppbv #	70
13) Ethanol	3.61	45	123552	29.803	ppbv	95
15) Acetone	3.85	43	1729434	27.193	ppbv	90
16) 1,3-Butadiene	3.31	39	188719	5.229	ppbv #	13
17) tert-Butyl alcohol	4.30	59	40594	0.731	ppbv #	93
19) Isopropyl Alcohol	3.97	45	23298	0.661	ppbv #	1
20) Methylene Chloride	4.35	84	123817	4.622	ppbv	96
21) Allyl Chloride	4.35	41	5311	0.116	ppbv #	23
23) Vinyl Acetate	5.06	43	18075	0.294	ppbv #	86
25) Ethyl Acetate	5.69	43	56326	0.352	ppbv #	79
26) Hexane	5.69	57	80910	1.129	ppbv #	37
27) Carbon Disulfide	4.55	76	7717	0.110	ppbv #	81
29) Chloroform	5.75	83	1224412	10.669	ppbv	100
34) 2-Butanone	5.24	43	1358359	17.139	ppbv	99
36) Benzene	6.89	78	21609	0.140	ppbv #	92
39) 1,2-Dichloropropane	7.17	63	458118	7.583	ppbv #	29
51) 2-Hexanone	10.14	43	126652	1.197	ppbv #	95
52) Tetrachloroethene	11.22	164	85207	1.507	ppbv	89
53) Toluene	9.81	91	52395	0.316	ppbv	96
65) tert-Butylbenzene	16.96	119	60712	0.257	ppbv #	25
66) Benzyl Chloride	16.99	91	1514	0.034	ppbv #	65
67) sec-Butylbenzene	16.97	105	21588	0.064	ppbv	95
75) 1,3-Dichlorobenzene	17.00	146	27641	0.212	ppbv #	23

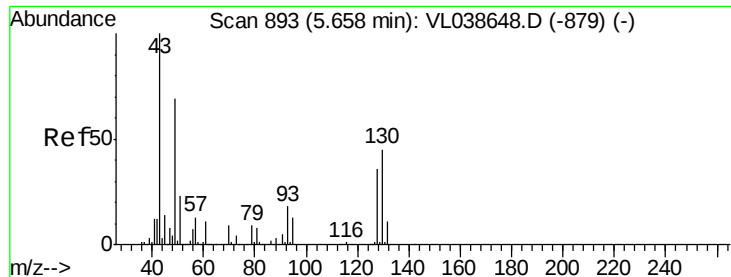
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. 0.01 min

Lab File: ClientSampleId: COP92

Acq: 24 Mar 2022 5:48

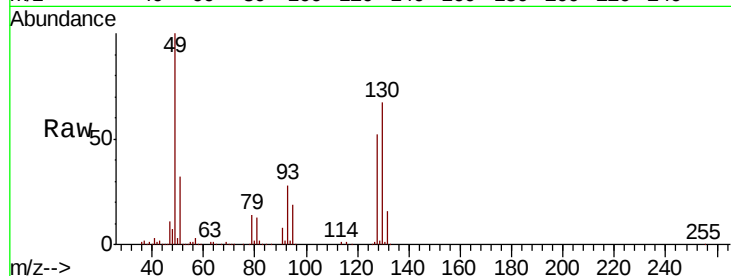
Tot Ion: 49 Resp: 737051

Ion Ratio Lower Upper

49 100

128 56.4 26.2 78.6

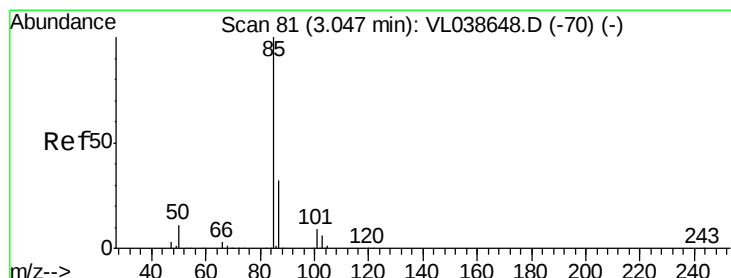
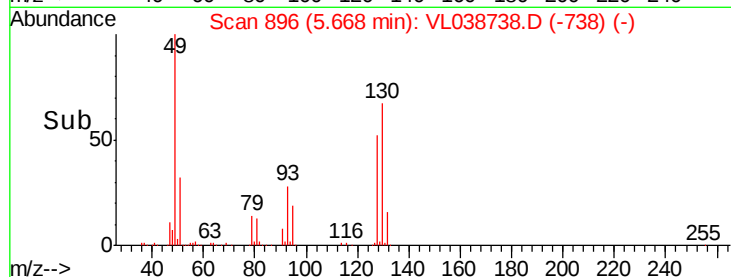
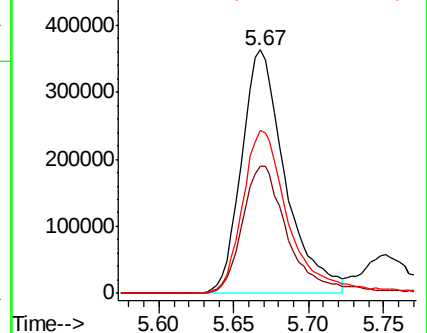
130 73.5 33.7 101.1



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: 0.289 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038738.D

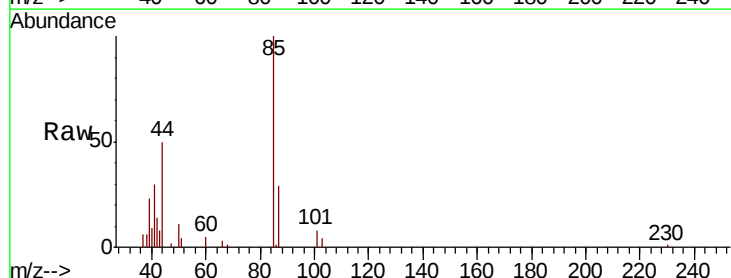
Acq: 24 Mar 2022 5:48

Tgt Ion: 85 Resp: 28652

Ion Ratio Lower Upper

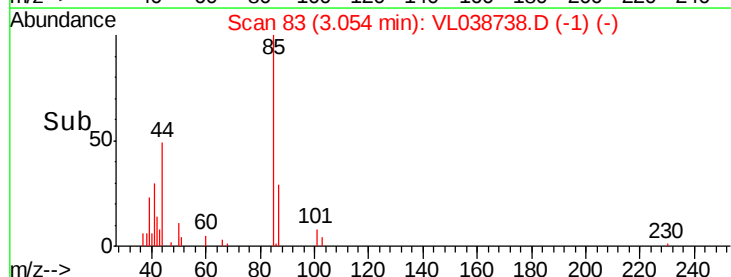
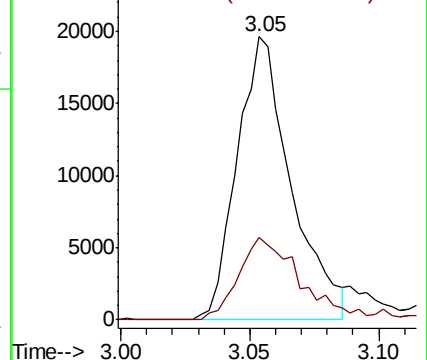
85 100

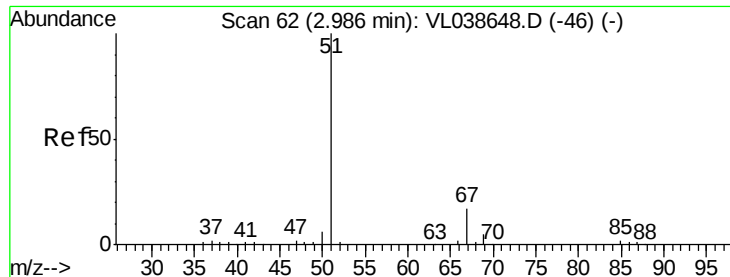
87 29.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.292 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP92

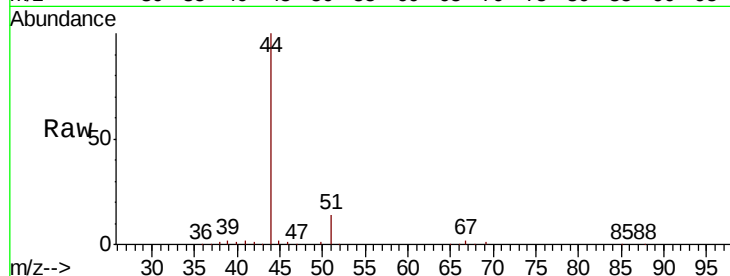
Acq: 24 Mar 2022 5:48

Tot Ion: 51 Resp: 22707

Ion Ratio Lower Upper

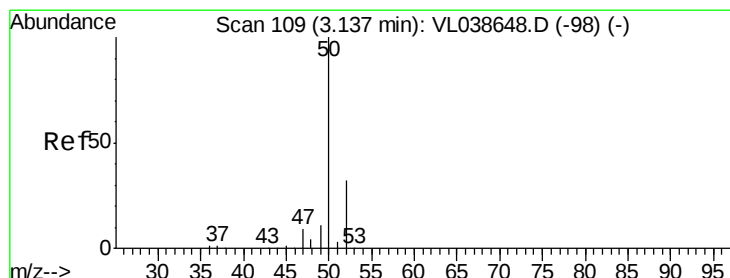
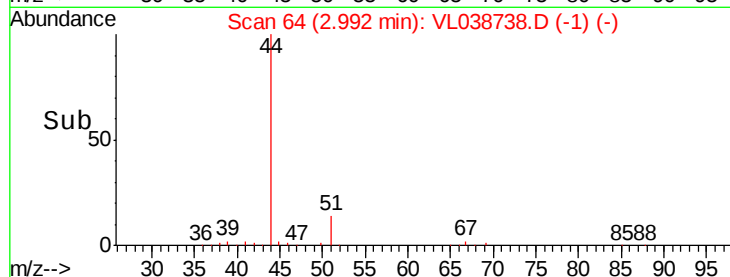
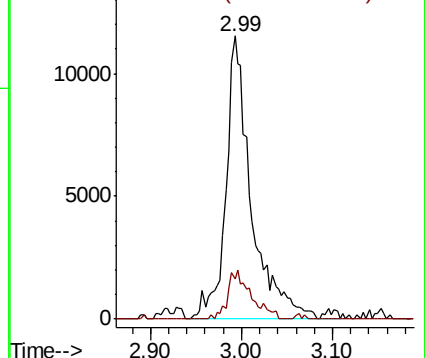
51 100

67 15.5 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: 0.176 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL038738.D

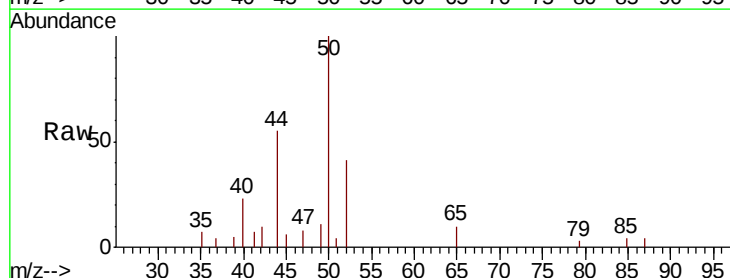
Acq: 24 Mar 2022 5:48

Tgt Ion: 50 Resp: 7528

Ion Ratio Lower Upper

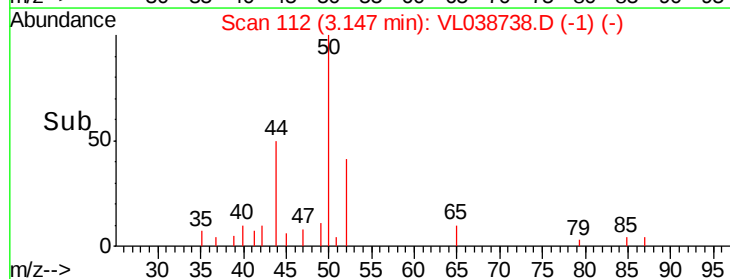
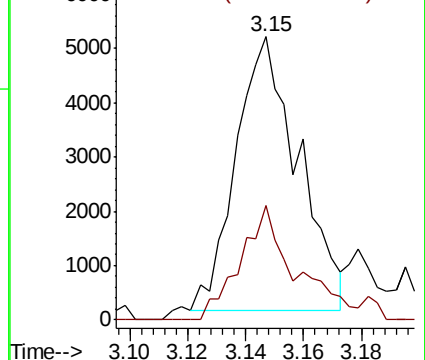
50 100

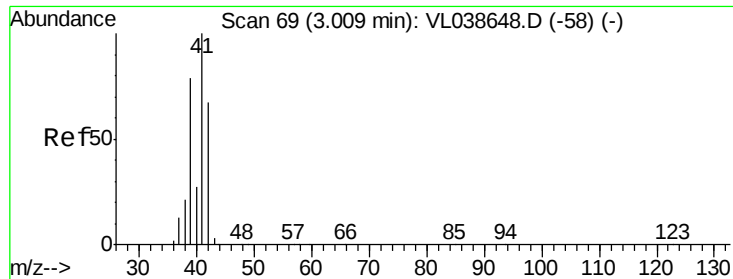
52 40.4 25.5 38.3#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.099 ppbv

RT: 3.01 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP92

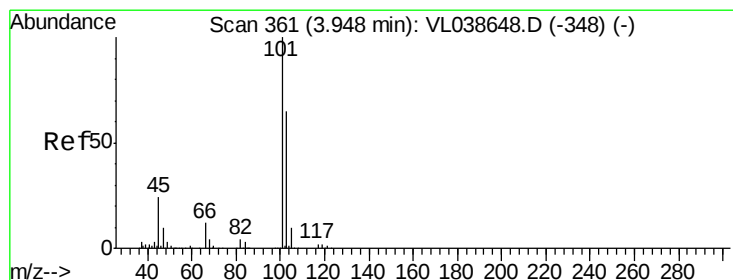
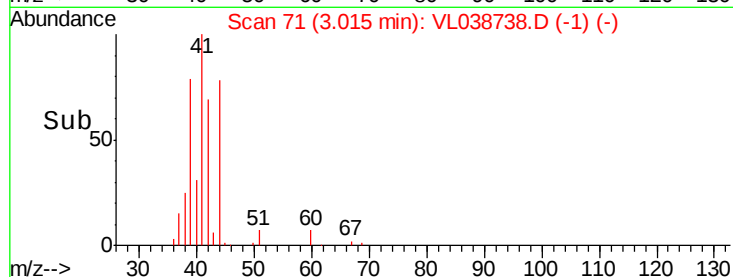
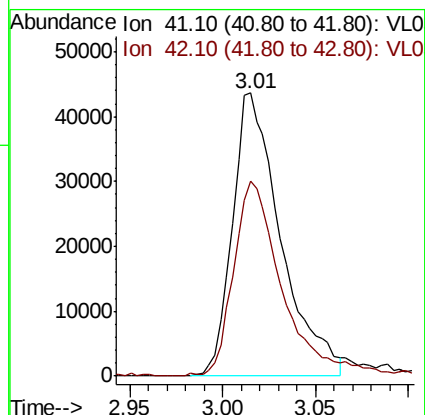
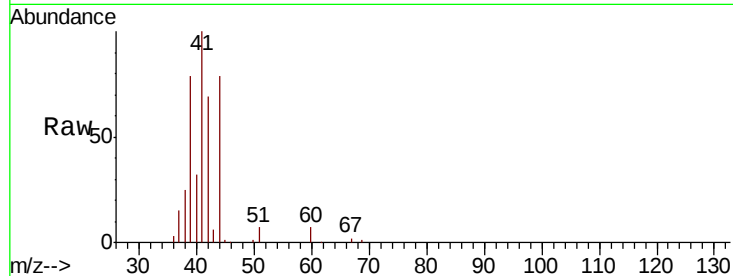
Acq: 24 Mar 2022 5:48

Tot Ion: 41 Resp: 78892

Ion Ratio Lower Upper

41 100

42 70.9 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.278 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL038738.D

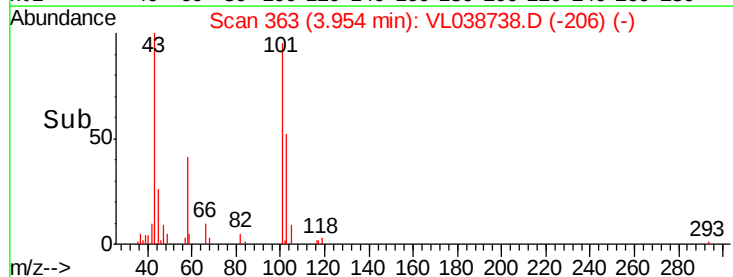
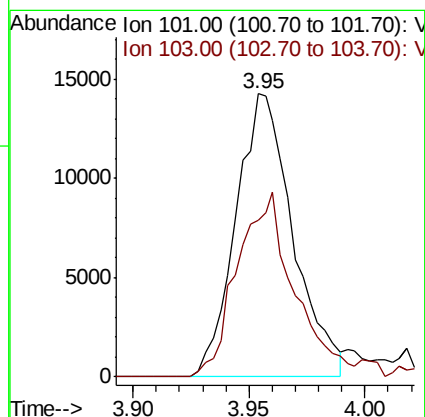
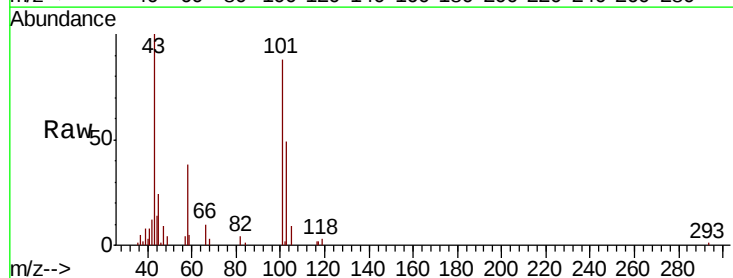
Acq: 24 Mar 2022 5:48

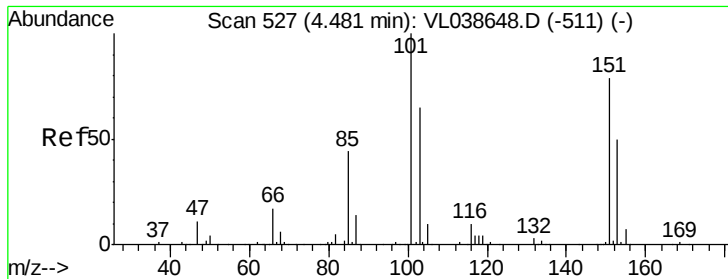
Tgt Ion: 101 Resp: 24341

Ion Ratio Lower Upper

101 100

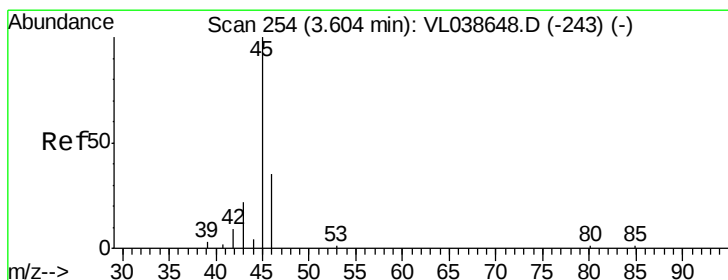
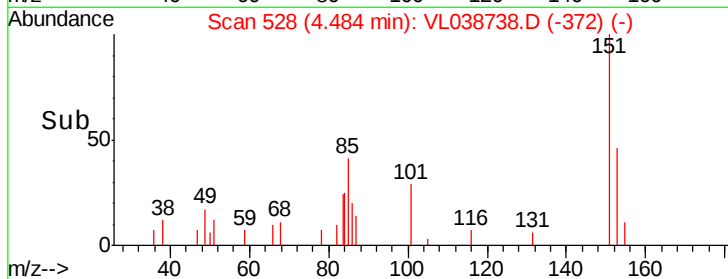
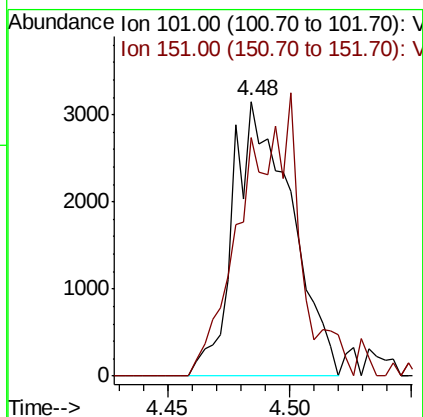
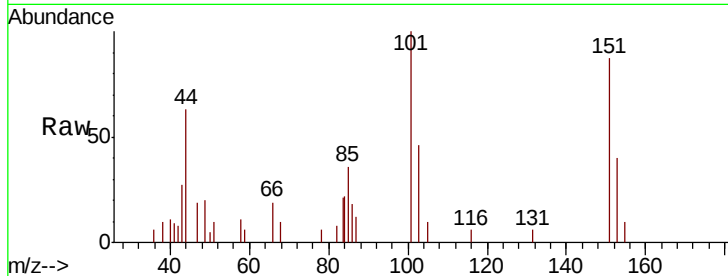
103 55.3 51.9 77.9





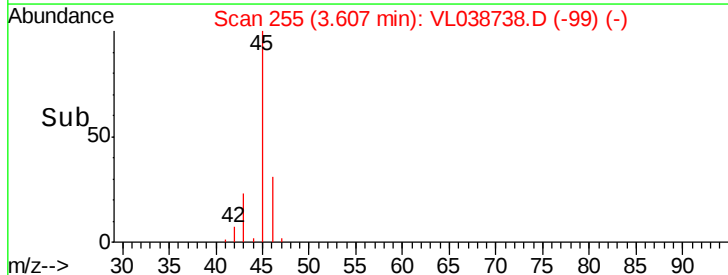
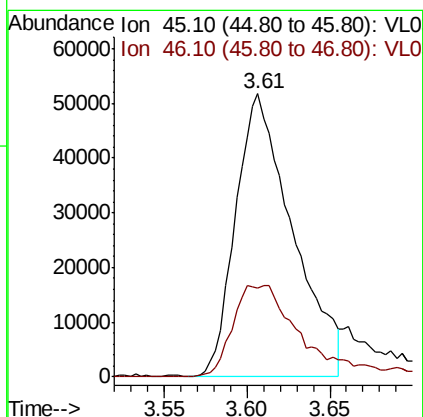
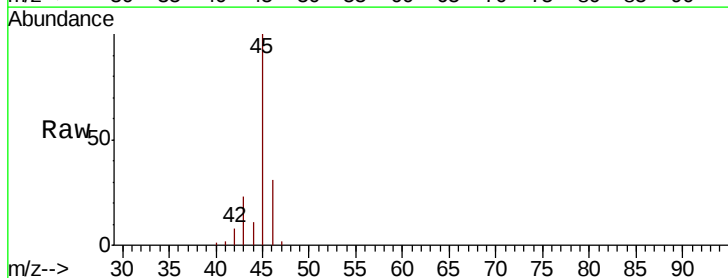
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.078 ppbv
 RT: 4.48
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 5:48

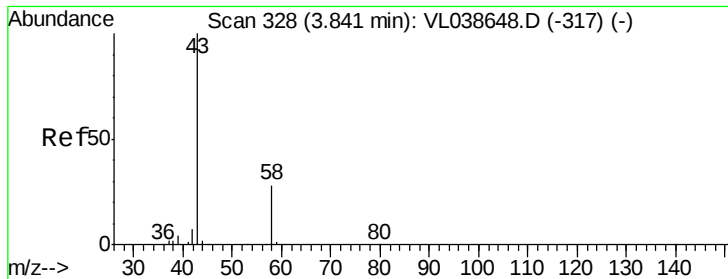
Tot Ion: 101 Resp: 5223
 Ion Ratio Lower Upper
 101 100
 151 105.0 62.9 94.3#



#13
 Ethanol
 Concen: 29.803 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. 0.00 min
 Lab File: VL038738.D
 Acq: 24 Mar 2022 5:48

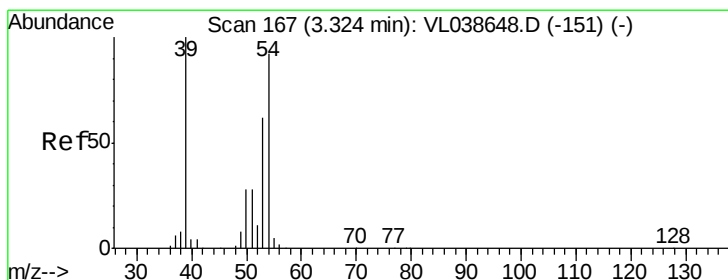
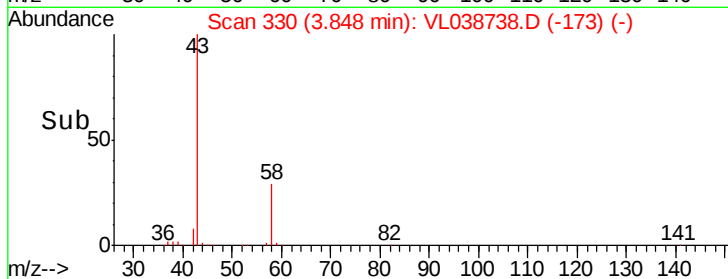
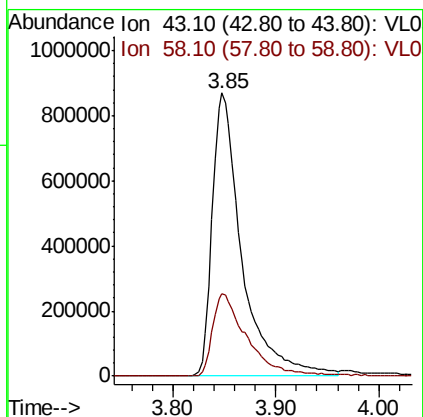
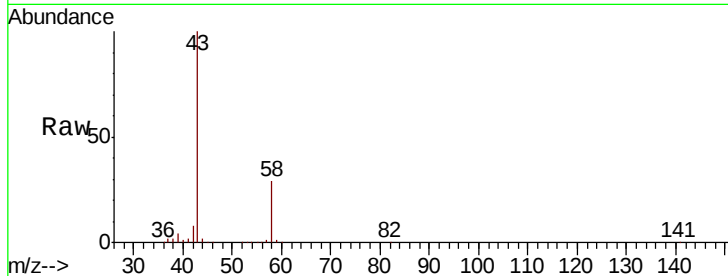
Tgt Ion: 45 Resp: 123552
 Ion Ratio Lower Upper
 45 100
 46 40.7 15.1 60.5



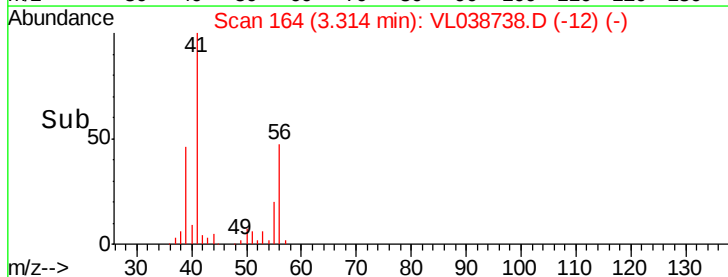
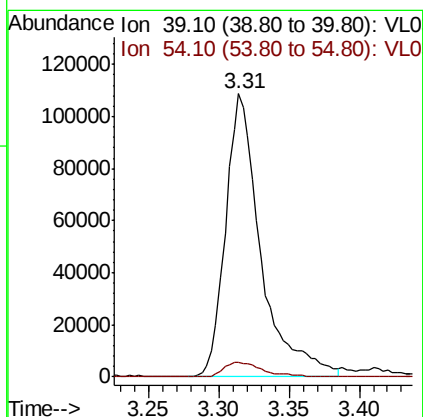
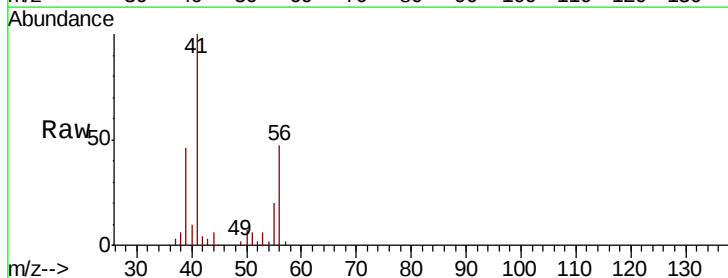


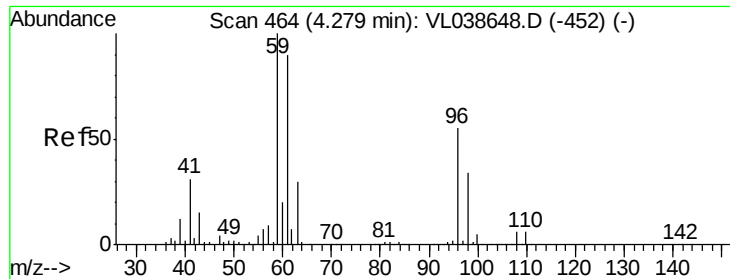
#15
Acetone
Concen: 27.193 ppbv
RT: 3.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 5:48

Tot Ion: 43 Resp: 1729434
Ion Ratio Lower Upper
43 100
58 34.7 23.3 34.9



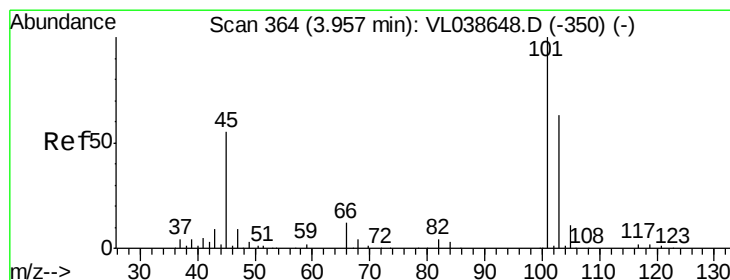
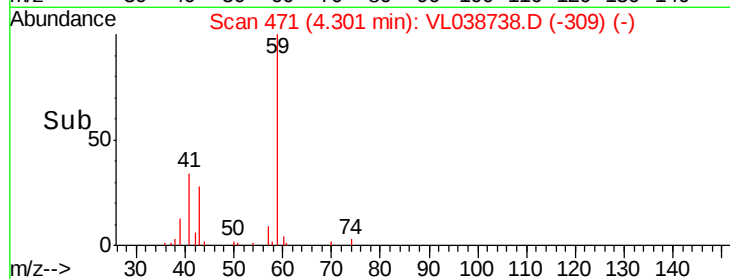
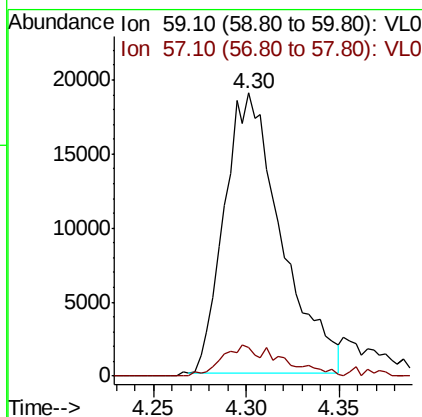
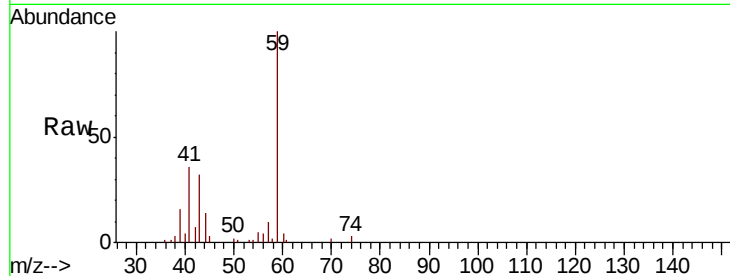
#16
1,3-Butadiene
Concen: 5.229 ppbv
RT: 3.31 min Scan# 164
Delta R.T. -0.01 min
Lab File: VL038738.D
Acq: 24 Mar 2022 5:48
Tgt Ion: 39 Resp: 188719
Ion Ratio Lower Upper
39 100
54 6.1 69.1 103.7#





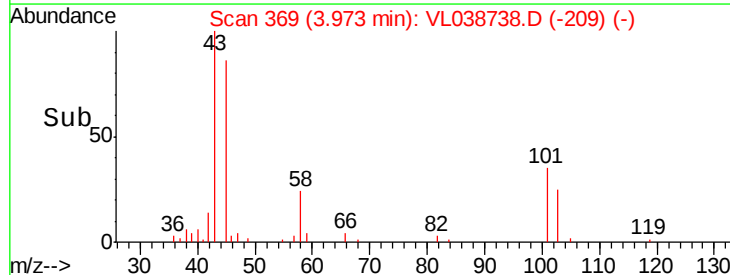
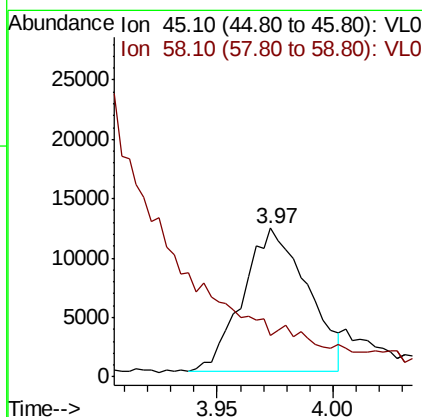
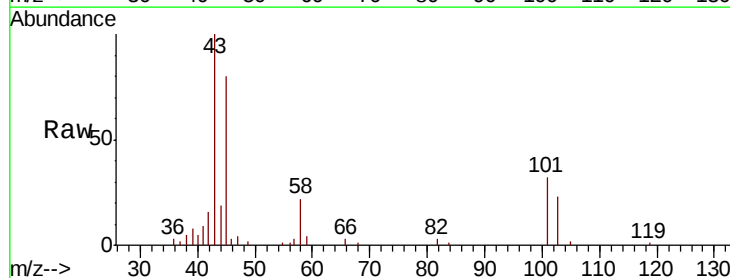
#17
tert-Butyl alcohol
Concen: 0.731 ppbv
RT: 4.30
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP92
Acq: 24 Mar 2022 5:48

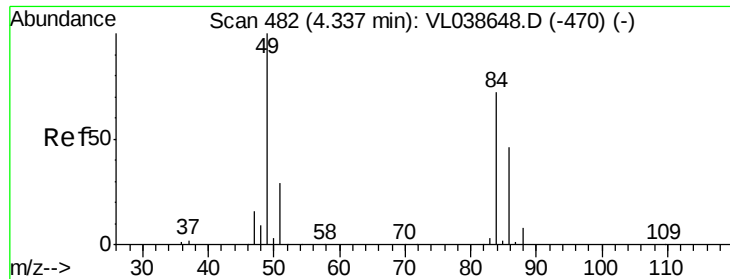
Tot Ion: 59 Resp: 40594
Ion Ratio Lower Upper
59 100
57 12.9 8.2 12.2#



#19
Isopropyl Alcohol
Concen: 0.661 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL038738.D
Acq: 24 Mar 2022 5:48

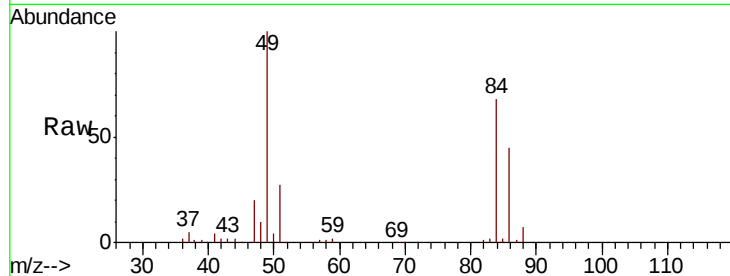
Tgt Ion: 45 Resp: 23298
Ion Ratio Lower Upper
45 100
58 2575.7 2.3 3.5#





#20
Methvlene Chloride
Concen: 4.622 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 5:48

Tot Ion:	84	Resp:	123817
Ion	Ratio	Lower	Upper
84	100		
49	146.4	111.2	166.8
51	39.2	32.8	49.2
86	65.7	51.4	77.0



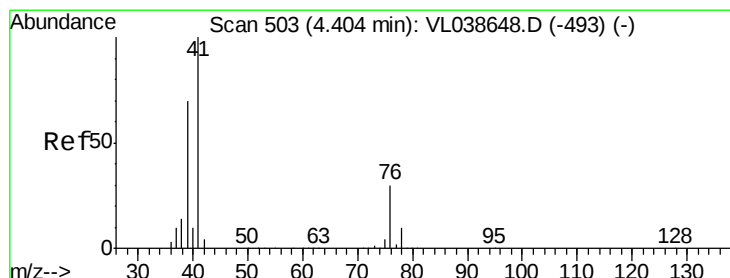
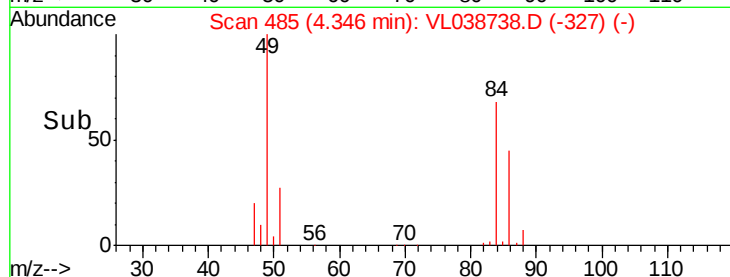
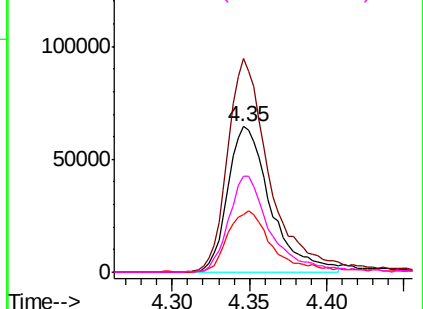
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

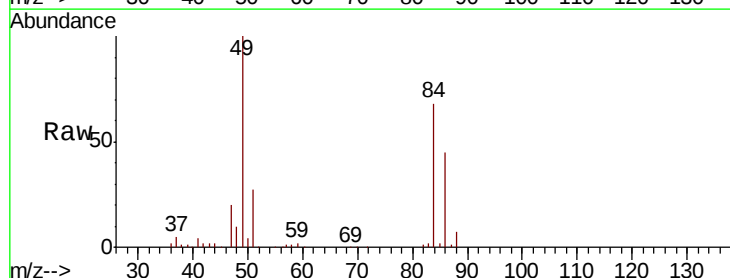
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.116 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.06 min
Lab File: VL038738.D
Acq: 24 Mar 2022 5:48

Tgt Ion:	41	Resp:	5311
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.0	37.6#
39	0.0	56.6	85.0#

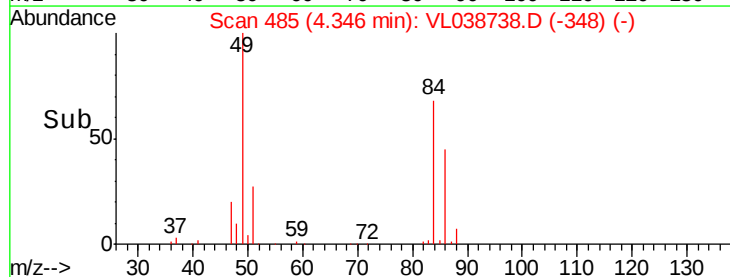
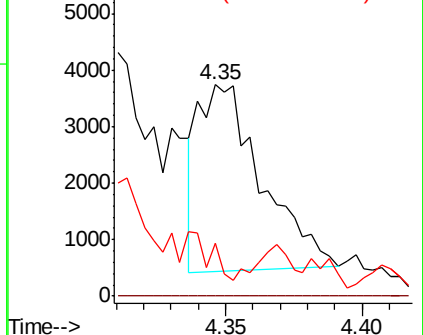


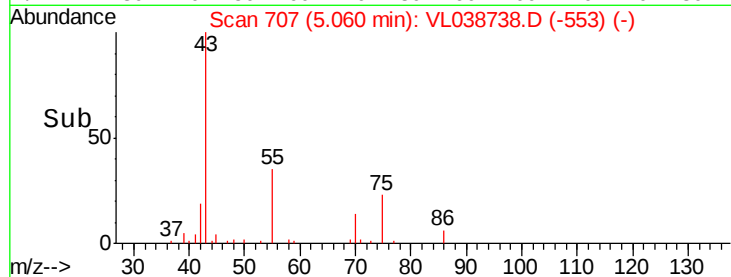
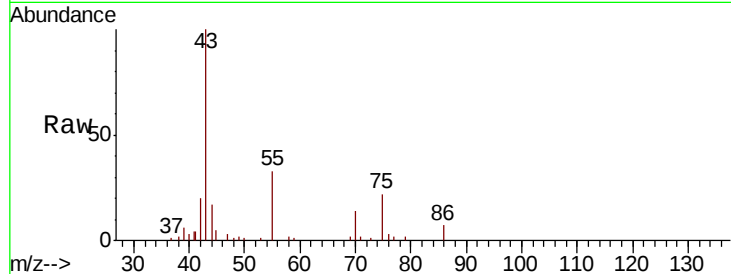
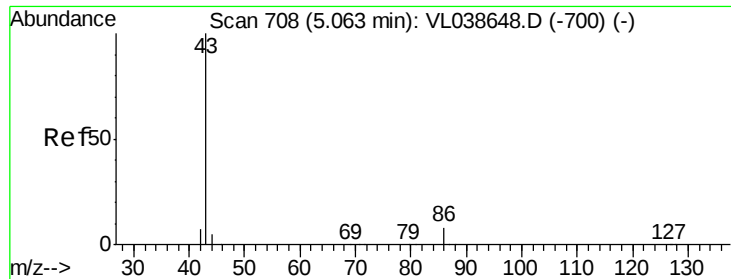
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.294 ppbv

RT: 5.06 Instrument:

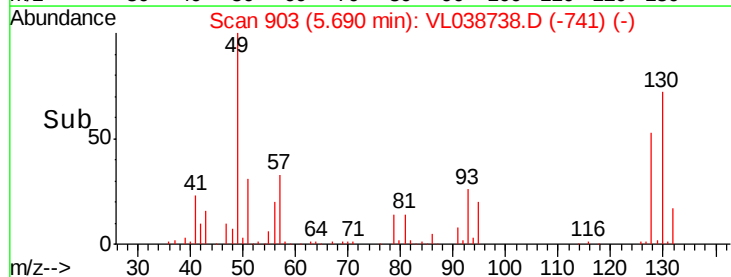
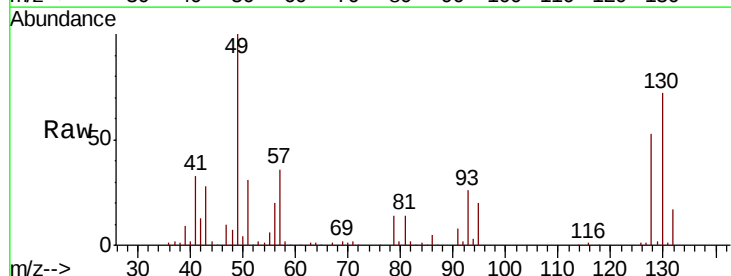
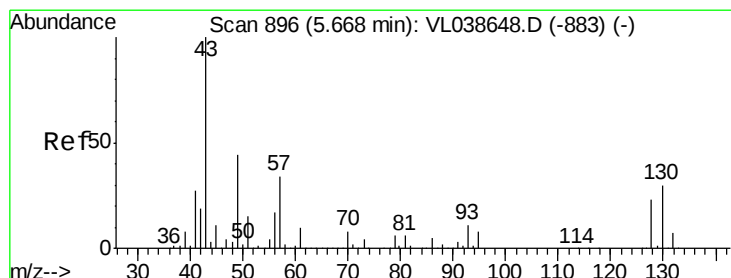
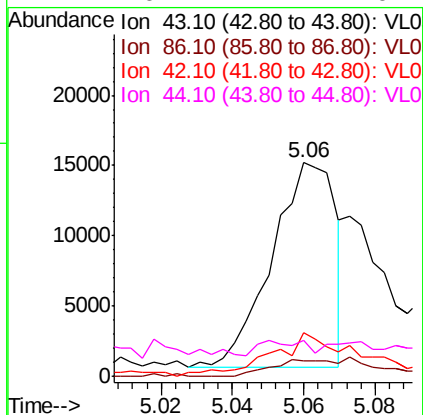
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 24 Mar 2022 COP92

Tot Ion: 43 Resp: 18075

Ion	Ratio	Lower	Upper
43	100		
86	7.4	5.6	8.4
42	19.6	6.8	10.2#
44	6.7	4.2	6.2#



#25

Ethyl Acetate

Concen: 0.352 ppbv

RT: 5.69 min Scan# 903

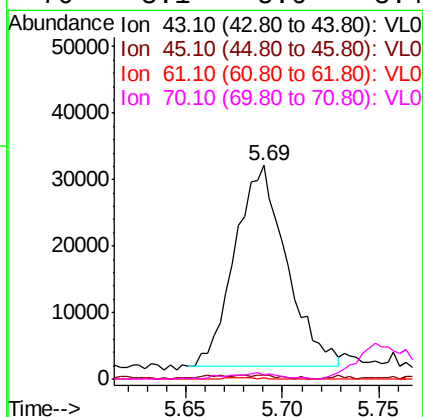
Delta R.T. 0.02 min

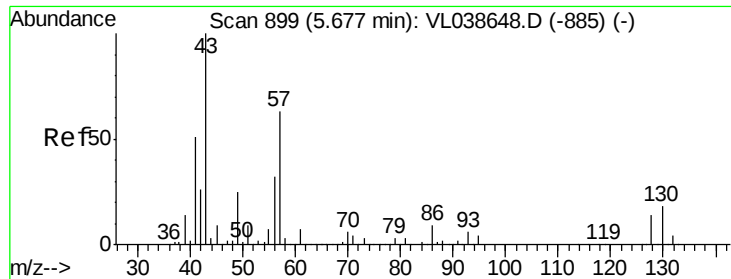
Lab File: VL038738.D

Acq: 24 Mar 2022 5:48

Tgt Ion: 43 Resp: 56326

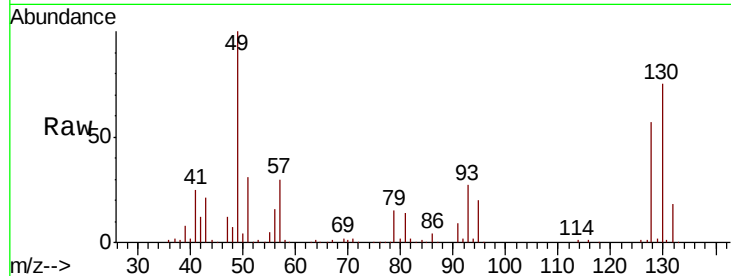
Ion	Ratio	Lower	Upper
43	100		
45	2.6	8.2	12.4#
61	0.5	8.3	12.5#
70	3.1	5.6	8.4#





#26
Hexane
Concen: 1.129 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 5:48

Tot Ion	57	Resp	80910
Ion Ratio	Lower	Upper	
57	100		
41	105.0	67.0	100.4#
43	82.2	184.2	276.2#
56	61.5	42.6	64.0



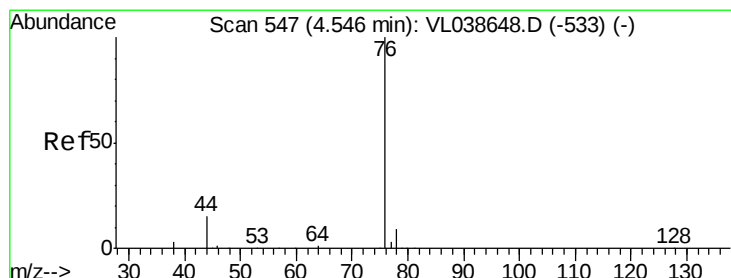
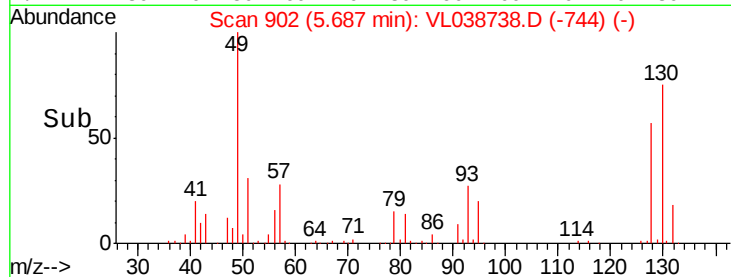
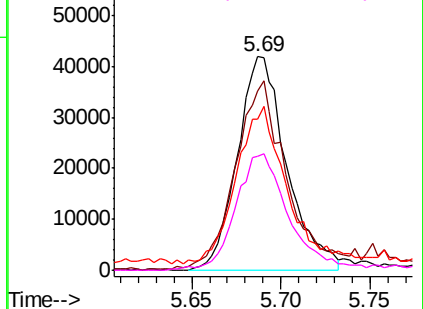
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

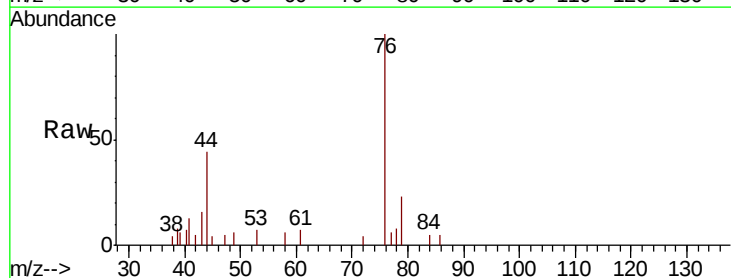
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27
Carbon Disulfide
Concen: 0.110 ppbv
RT: 4.55 min Scan# 549
Delta R.T. 0.01 min
Lab File: VL038738.D
Acq: 24 Mar 2022 5:48

Tgt Ion	76	Resp	7717
Ion Ratio	Lower	Upper	
76	100		
44	24.3	12.4	18.6#
78	15.6	7.8	11.8#

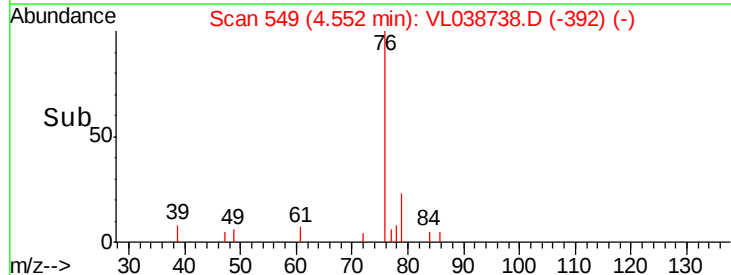
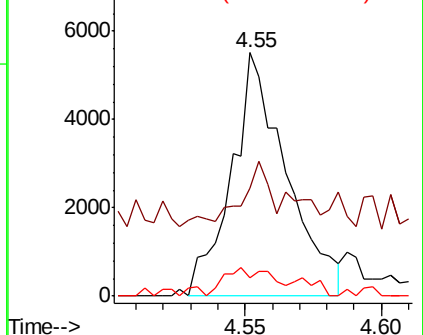


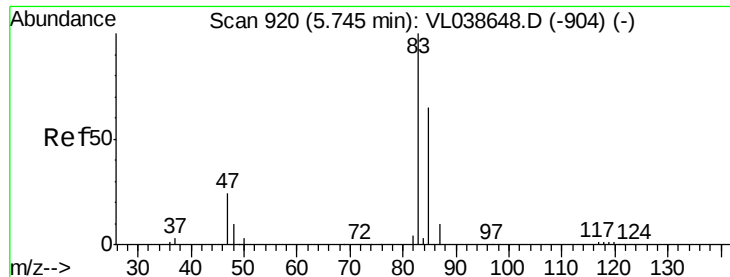
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

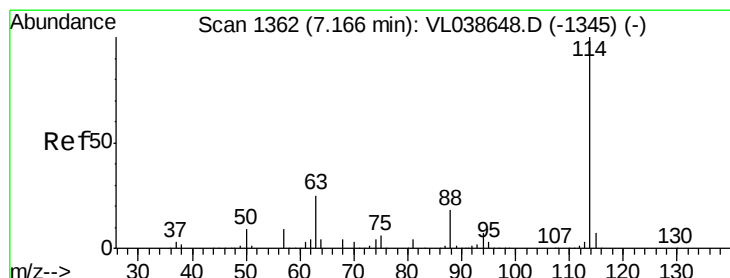
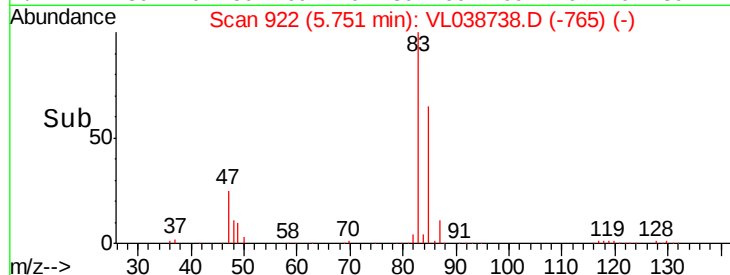
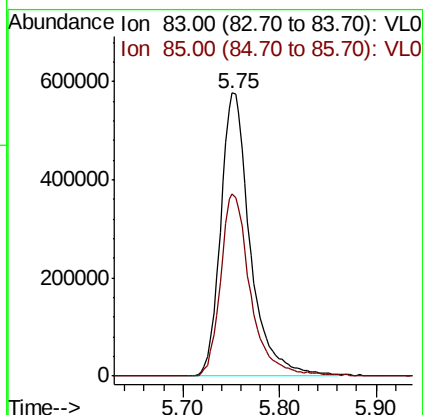
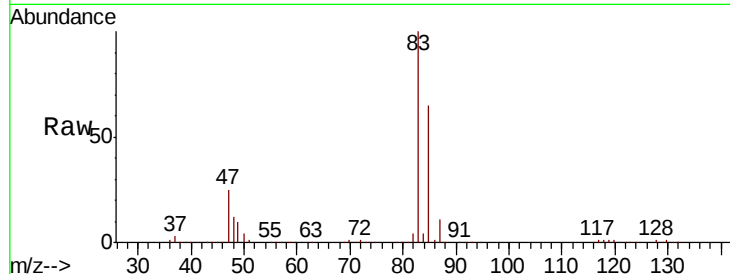
Ion 78.00 (77.70 to 78.70): VL0





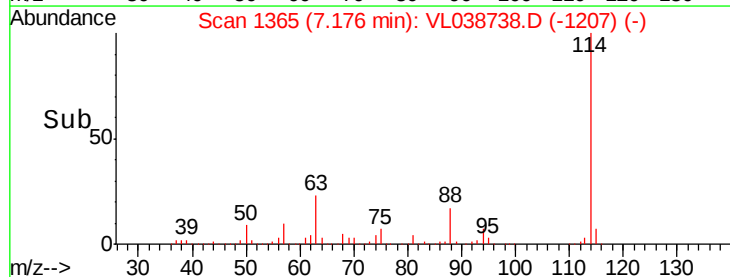
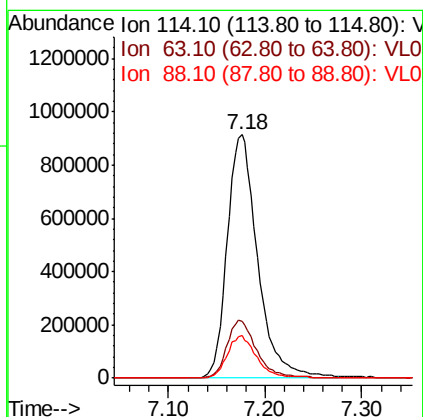
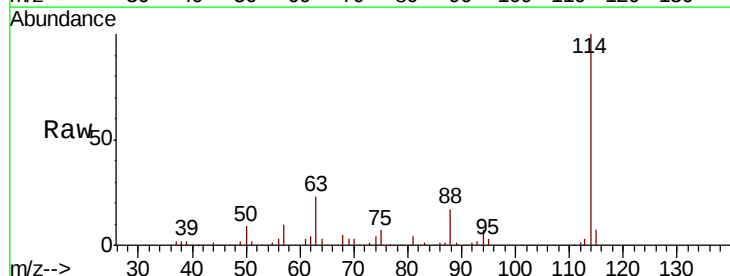
#29
 Chloroform
 Concen: 10.669 ppbv
 RT: 5.75
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 5:48

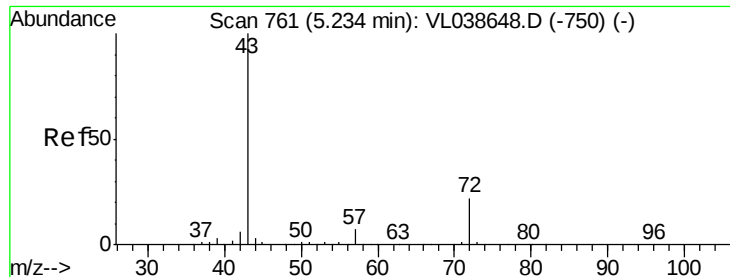
Tot Ion: 83 Resp: 1224412
 Ion Ratio Lower Upper
 83 100
 85 64.5 51.7 77.5



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VL038738.D
 Acq: 24 Mar 2022 5:48

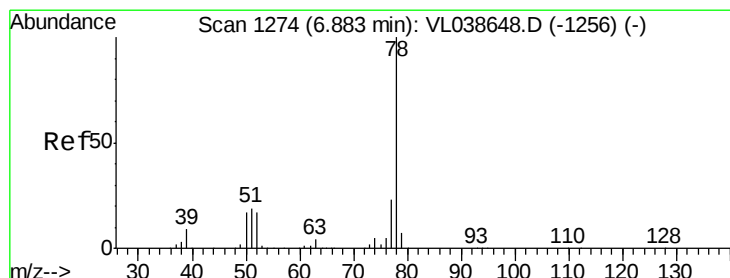
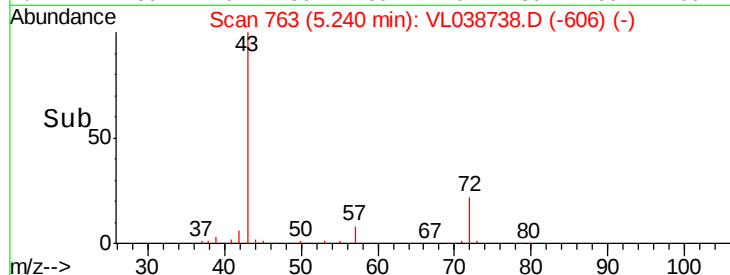
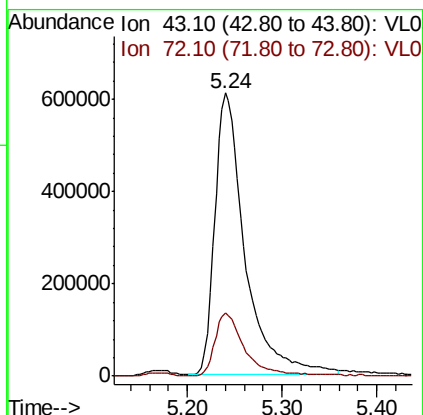
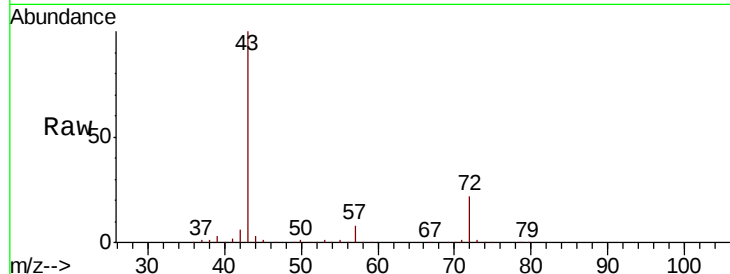
Tgt Ion: 114 Resp: 2002445
 Ion Ratio Lower Upper
 114 100
 63 23.5 19.4 29.0
 88 17.1 13.9 20.9





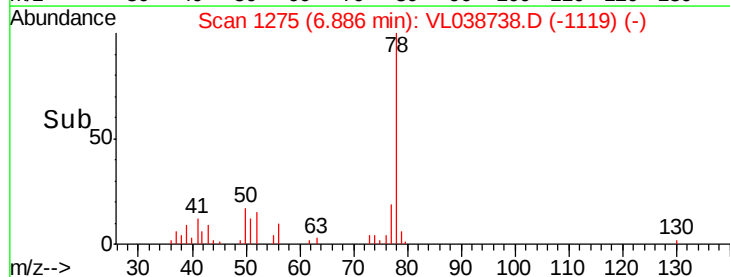
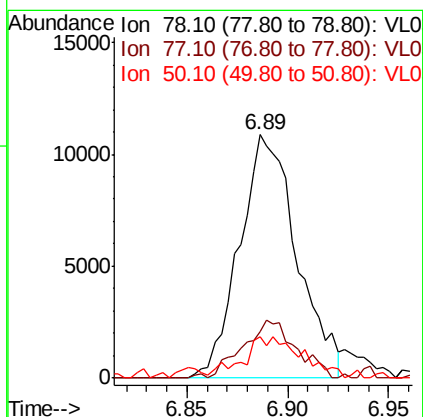
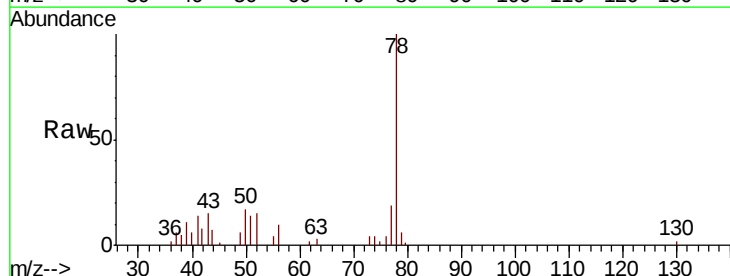
#34
2-Butanone
Concen: 17.139 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 5:48

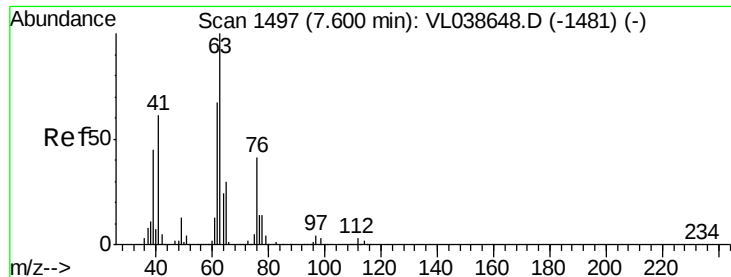
Tot Ion: 43 Resp: 1358359
Ion Ratio Lower Upper
43 100
72 22.6 17.8 26.8



#36
Benzene
Concen: 0.140 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. 0.00 min
Lab File: VL038738.D
Acq: 24 Mar 2022 5:48

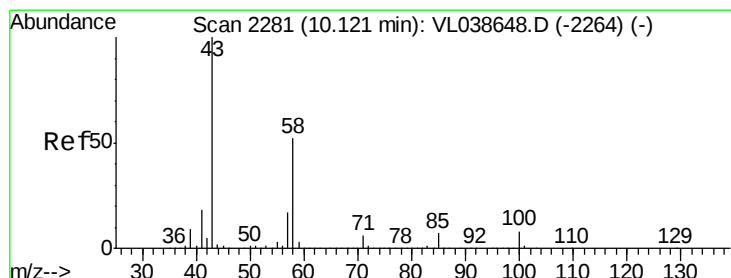
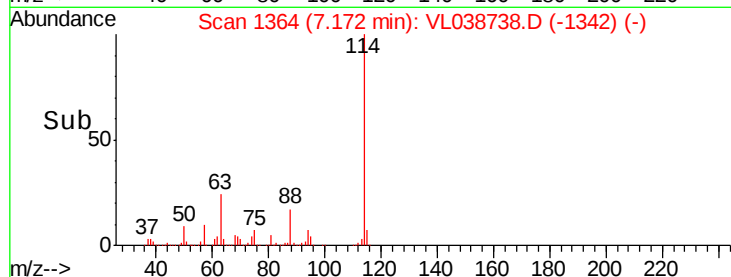
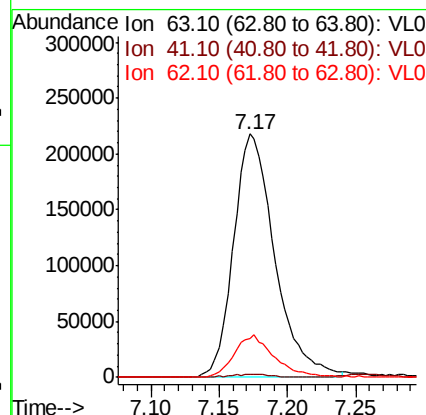
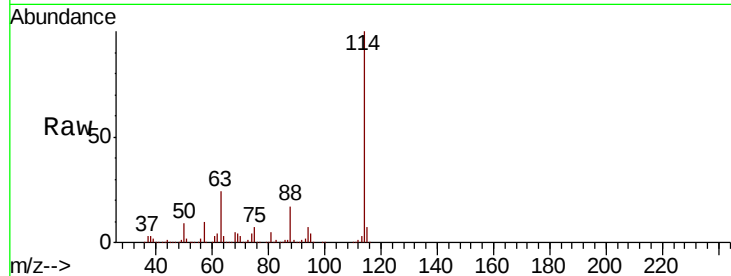
Tgt Ion: 78 Resp: 21609
Ion Ratio Lower Upper
78 100
77 19.1 18.1 27.1
50 12.8 13.6 20.4#





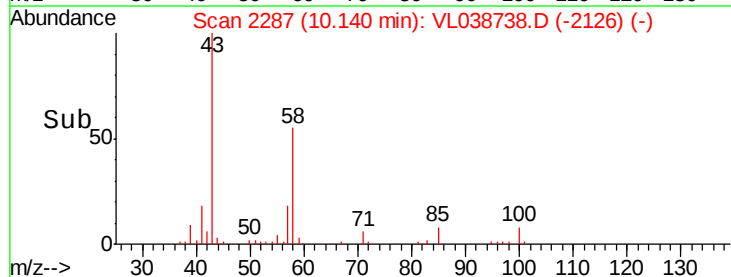
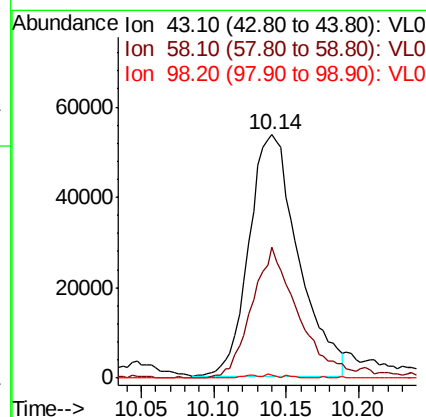
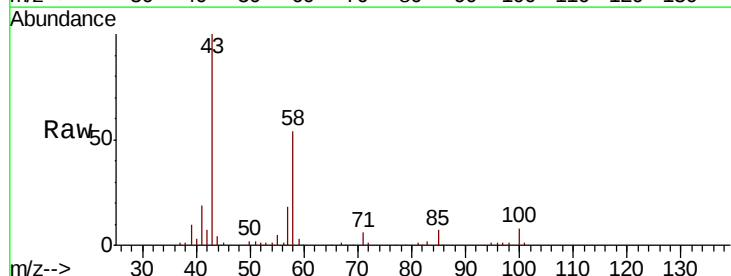
#39
 1,2-Dichloropropane
 Concen: 7.583 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 COP92
 Acq: 24 Mar 2022 5:48

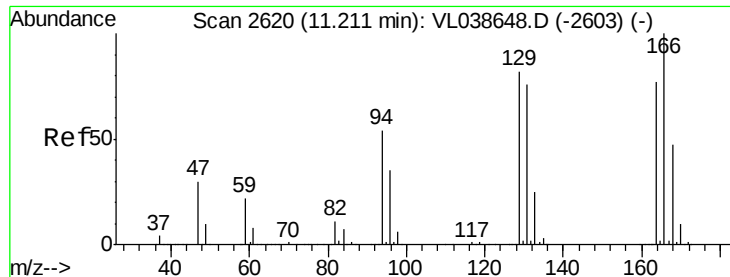
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.8	49.0	73.6#
62	16.1	53.9	80.9#



#51
 2-Hexanone
 Concen: 1.197 ppbv
 RT: 10.14 min Scan# 2287
 Delta R.T. 0.02 min
 Lab File: VL038738.D
 Acq: 24 Mar 2022 5:48

Tgt Ion	Ratio	Lower	Upper
43	100		
58	54.8	41.2	61.8
98	1.1	0.2	0.4#





#52

Tetrachloroethene

Concen: 1.507 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 5:48

Tot Ion:164 Resp: 85207

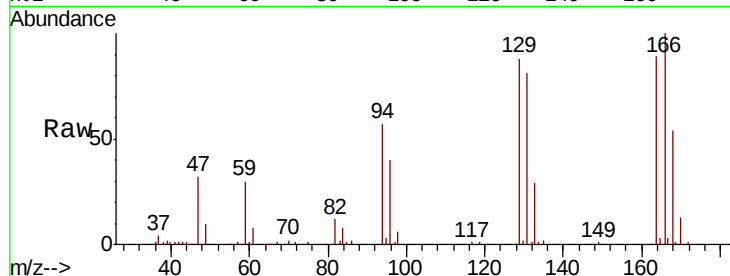
Ion Ratio Lower Upper

164 100

166 110.8 103.3 154.9

129 97.9 85.2 127.8

131 89.9 78.3 117.5

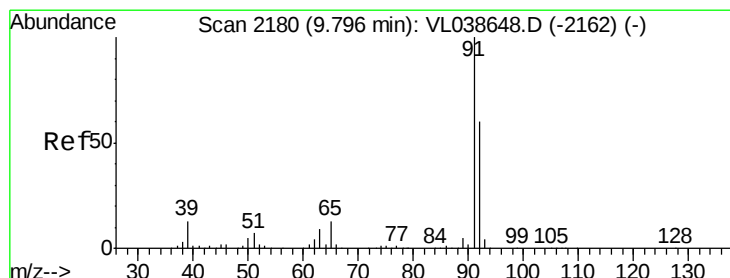
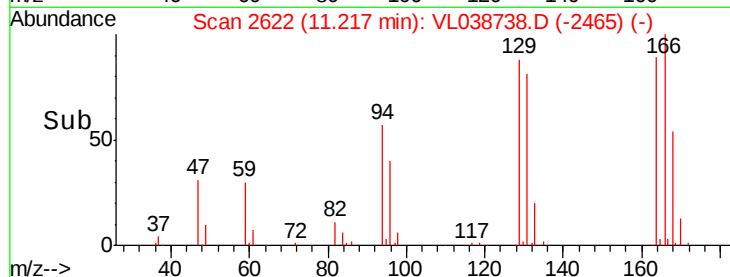
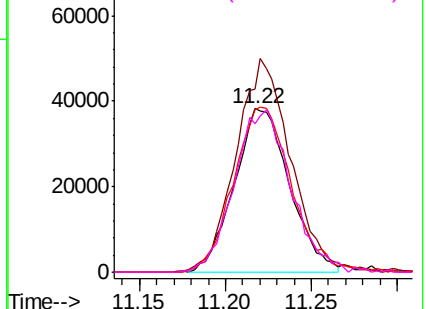


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.316 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.01 min

Lab File: VL038738.D

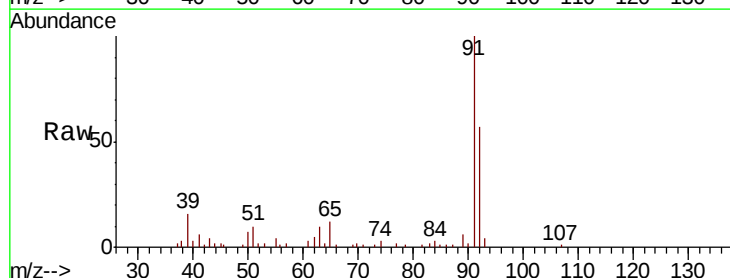
Acq: 24 Mar 2022 5:48

Tgt Ion: 91 Resp: 52395

Ion Ratio Lower Upper

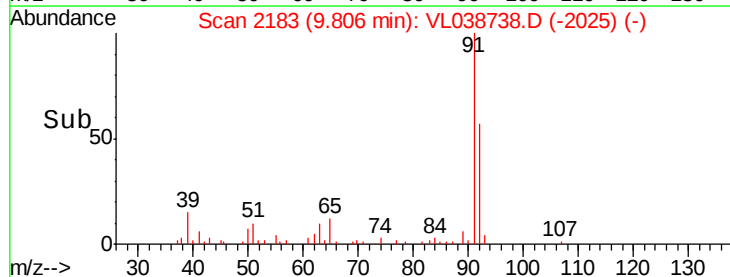
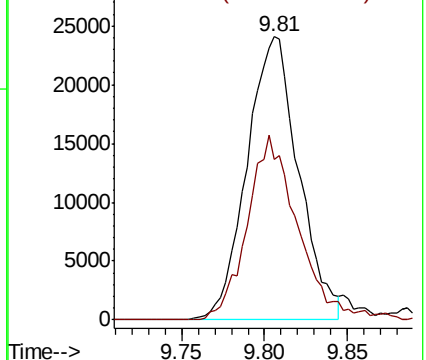
91 100

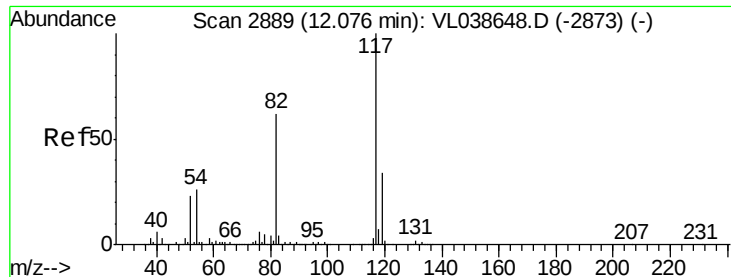
92 63.9 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

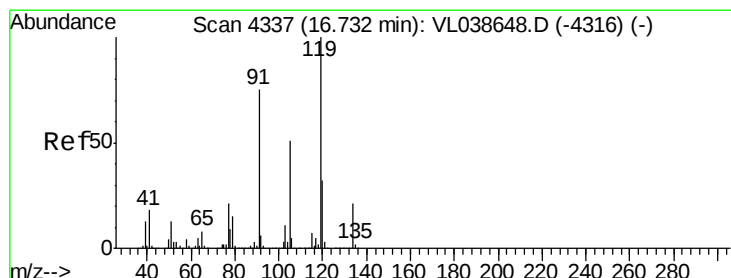
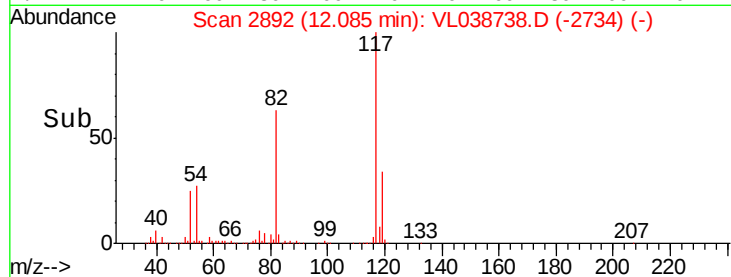
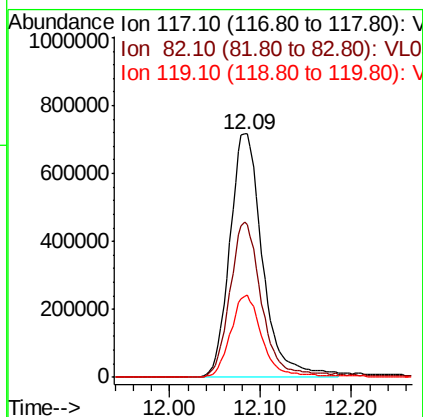
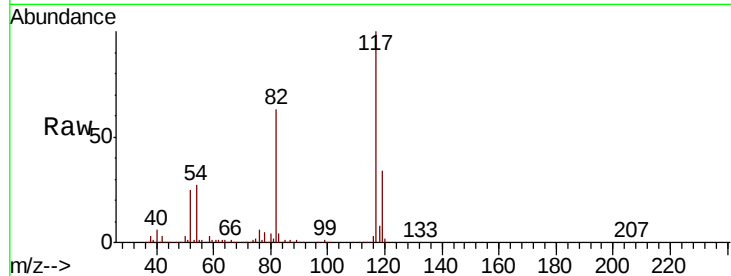
Ion 92.10 (91.80 to 92.80): VL0





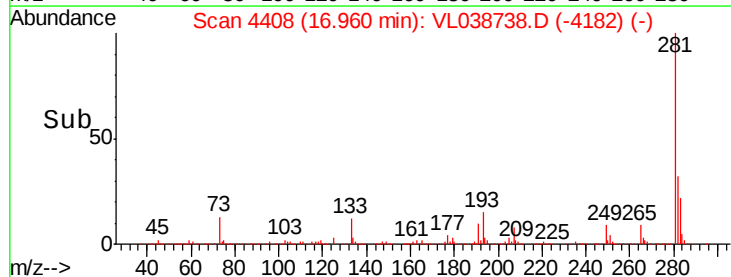
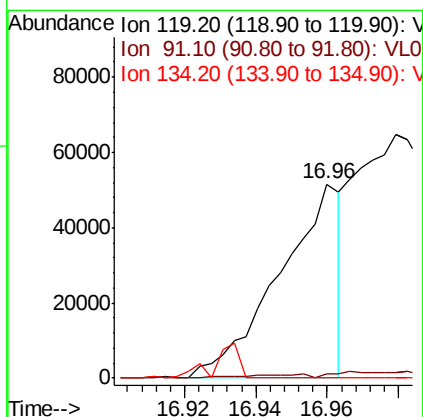
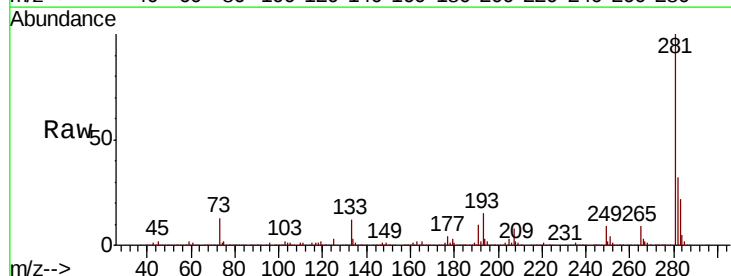
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 COP92
 Acq: 24 Mar 2022 5:48

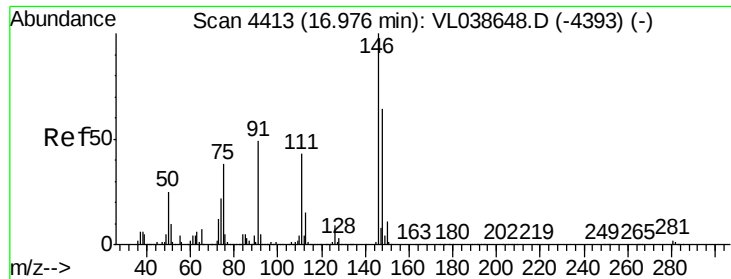
Tot Ion:117 Resp: 1799243
 Ion Ratio Lower Upper
 117 100
 82 64.1 51.6 77.4
 119 33.4 26.9 40.3



#65
 tert-Butylbenzene
 Concen: 0.257 ppbv
 RT: 16.96 min Scan# 4408
 Delta R.T.: 0.23 min
 Lab File: VL038738.D
 Acq: 24 Mar 2022 5:48

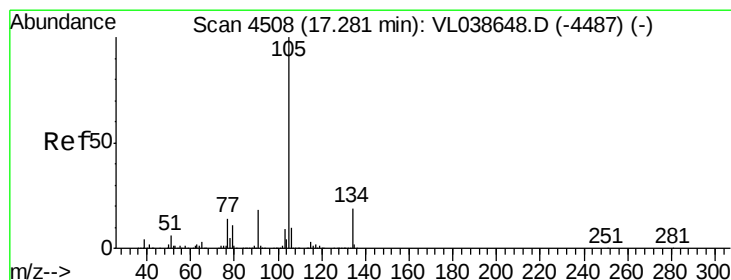
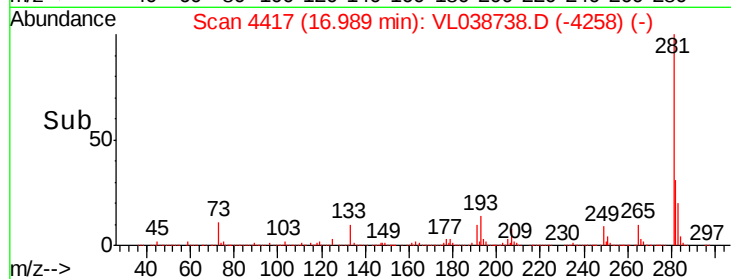
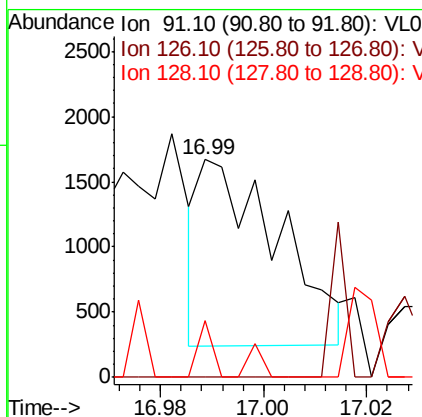
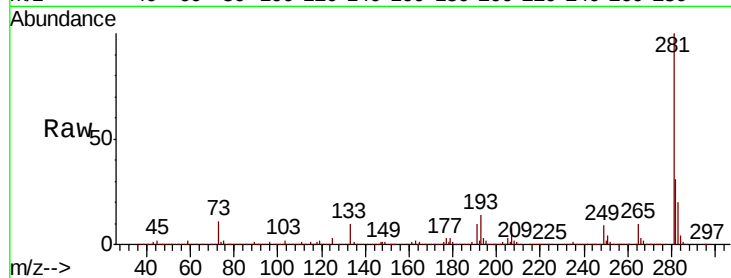
Tgt Ion:119 Resp: 60712
 Ion Ratio Lower Upper
 119 100
 91 0.9 61.2 91.8#
 134 7.5 16.3 24.5#





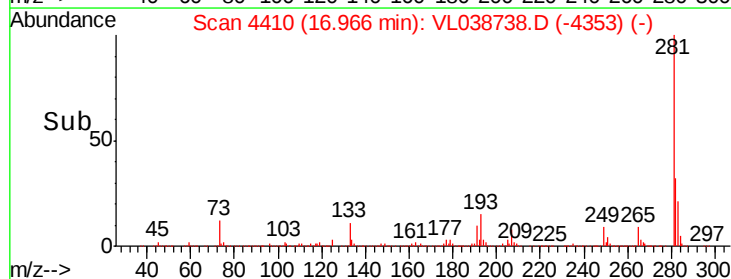
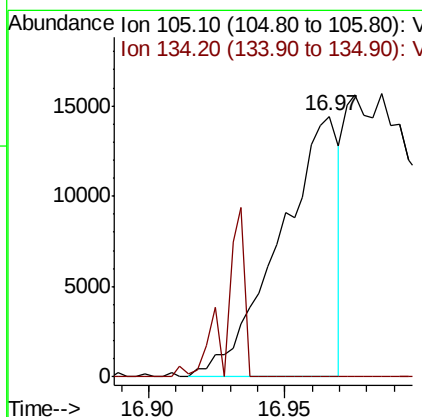
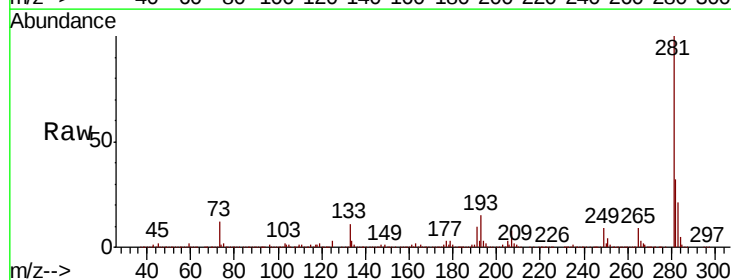
#66
Benzyl Chloride
Concen: 0.034 ppbv
RT: 16.99 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId : COP92
Acq: 24 Mar 2022 5:48

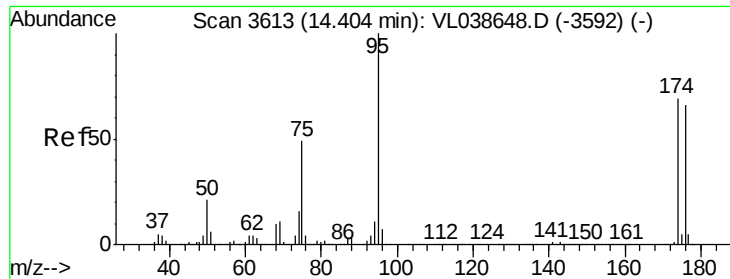
Tot Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.3	21.5#
128	0.0	4.6	6.8#



#67
sec-Butylbenzene
Concen: 0.064 ppbv
RT: 16.97 min Scan# 4410
Delta R.T. -0.32 min
Lab File: VL038738.D
Acq: 24 Mar 2022 5:48

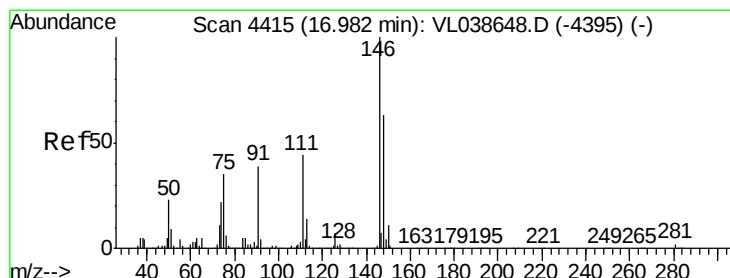
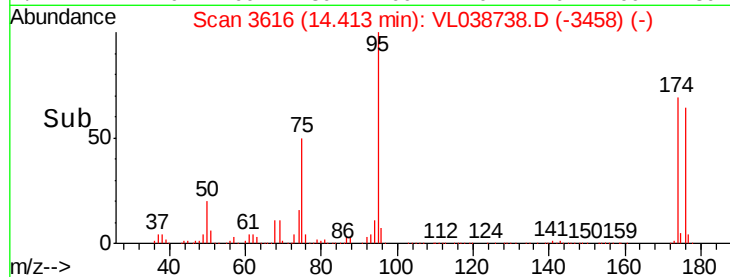
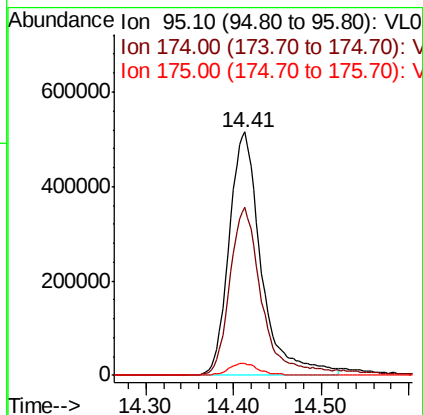
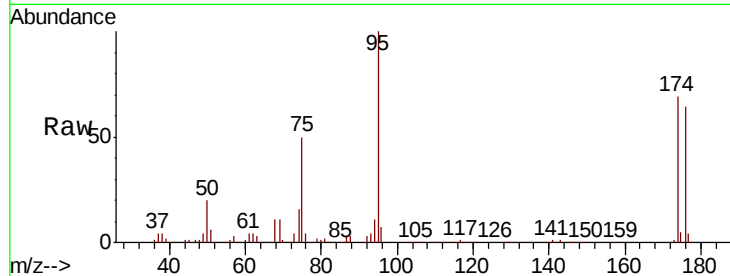
Tgt Ion	Ratio	Lower	Upper
105	100		
134	21.1	15.1	22.7





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.537 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0P92
 Acq: 24 Mar 2022 5:48

Tot Ion: 95 Resp: 131577
 Ion Ratio Lower Upper
 95 100
 174 71.2 56.1 84.1
 175 4.9 4.2 6.2



#75
 1,3-Dichlorobenzene
 Concen: 0.212 ppbv
 RT: 17.00 min Scan# 4421
 Delta R.T. 0.02 min
 Lab File: VL038738.D
 Acq: 24 Mar 2022 5:48

Tgt Ion: 146 Resp: 27641
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.2 66.6#
 148 0.0 32.5 97.5#

