

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038726.D
 Acq On : 23 Mar 2022 21:51
 Operator : SY/AP
 Sample : N2047-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 04:35:39 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	710354	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	1916709	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1754447	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1266144	9.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.10%

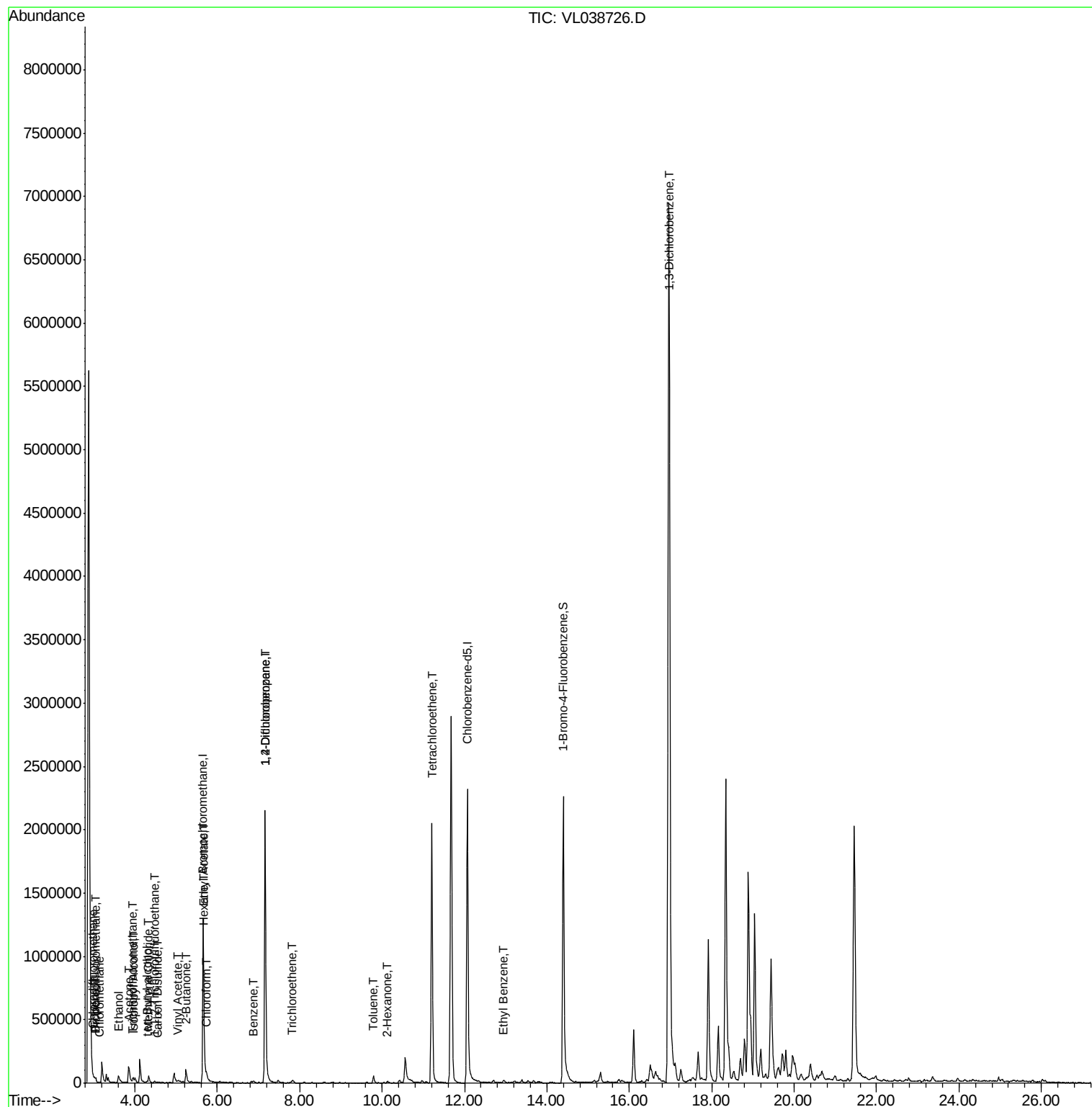
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	25176	0.264	ppbv 97
3) Chlorodifluoromethane	2.99	51	23965	0.319	ppbv 94
4) Chloromethane	3.14	50	2818	0.068	ppbv 98
9) Propene	3.02	41	10755	0.297	ppbv 91
11) Trichlorofluoromethane	3.94	101	22896	0.272	ppbv 88
12) 1,1,2-Trichlorotrifluoroet	4.48	101	5044	0.078	ppbv # 70
13) Ethanol	3.60	45	76487	19.143	ppbv 88
15) Acetone	3.85	43	178921	2.919	ppbv # 86
17) tert-Butyl alcohol	4.29	59	4353	0.081	ppbv # 73
19) Isopropyl Alcohol	3.97	45	25403	0.747	ppbv # 1
20) Methylene Chloride	4.33	84	19933	0.772	ppbv 91
23) Vinyl Acetate	5.05	43	7131	0.120	ppbv # 20
25) Ethyl Acetate	5.67	43	17500	0.113	ppbv # 87
26) Hexane	5.68	57	17776	0.257	ppbv # 55
27) Carbon Disulfide	4.55	76	4692	0.069	ppbv # 10
29) Chloroform	5.74	83	32570	0.294	ppbv 92
34) 2-Butanone	5.24	43	146751	1.934	ppbv 95
36) Benzene	6.87	78	6014	0.041	ppbv 94
38) Trichloroethene	7.82	130	2253	0.036	ppbv # 59
39) 1,2-Dichloropropane	7.16	63	428516	7.410	ppbv # 28
51) 2-Hexanone	10.13	43	4861	0.048	ppbv # 27
52) Tetrachloroethene	11.21	164	571223	10.552	ppbv 97
53) Toluene	9.79	91	48395	0.304	ppbv 96
58) Ethyl Benzene	12.95	91	11585	0.056	ppbv 97
75) 1,3-Dichlorobenzene	16.98	146	11505	0.090	ppbv # 1

(#) = 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 21:51

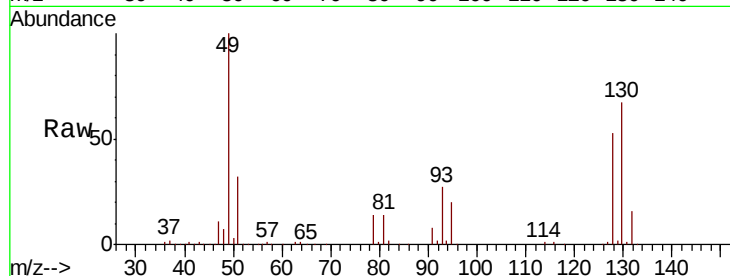
Tot Ion: 49 Resp: 710354

Ion Ratio Lower Upper

49 100

128 57.0 26.2 78.6

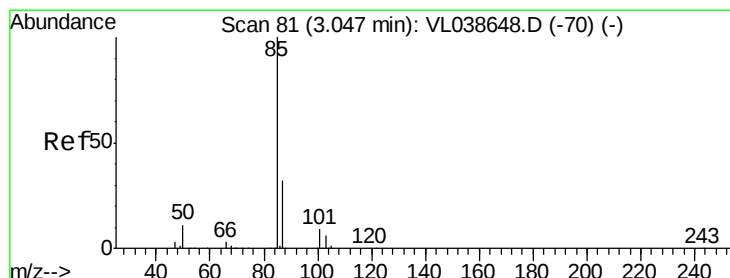
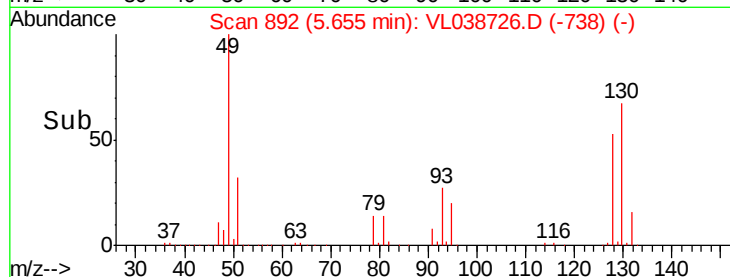
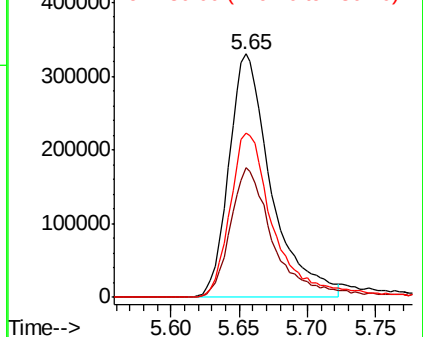
130 72.6 33.7 101.1



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: 0.264 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL038726.D

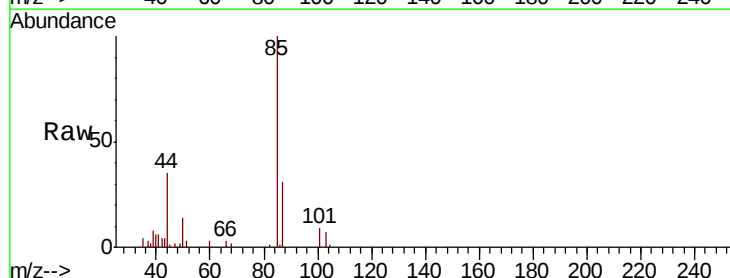
Acq: 23 Mar 2022 21:51

Tgt Ion: 85 Resp: 25176

Ion Ratio Lower Upper

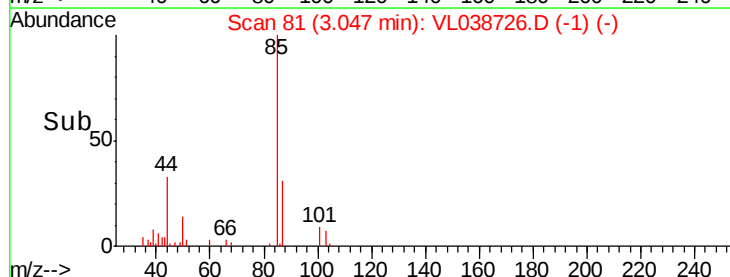
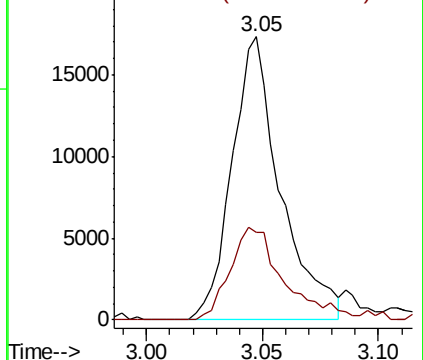
85 100

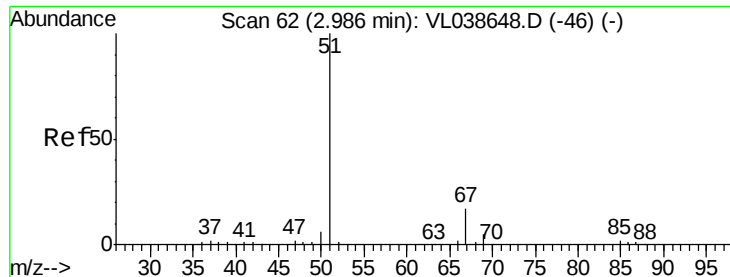
87 30.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

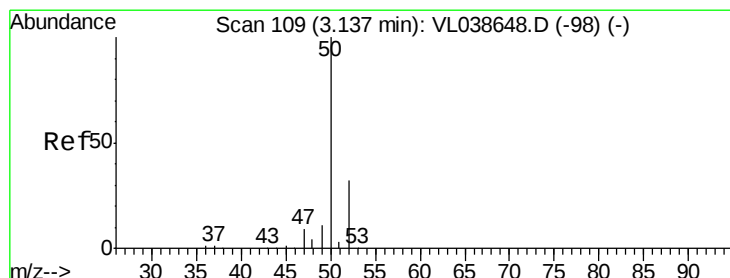
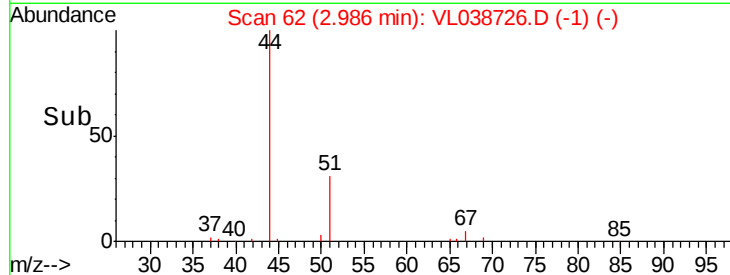
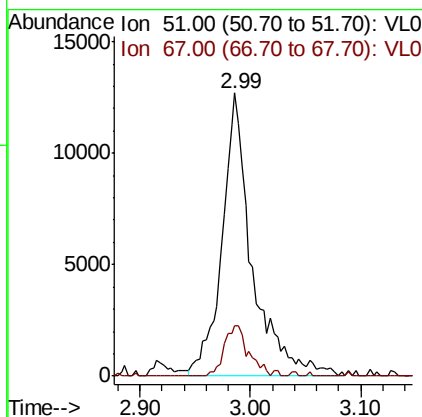
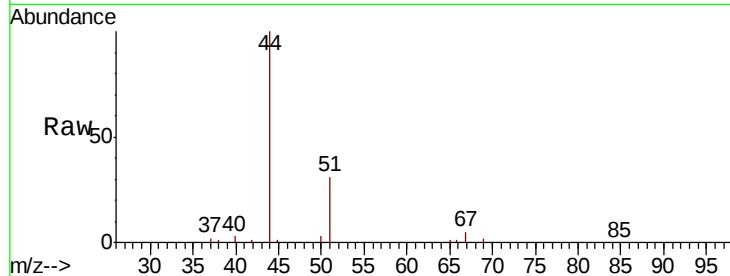
Ion 87.00 (86.70 to 87.70): VL0





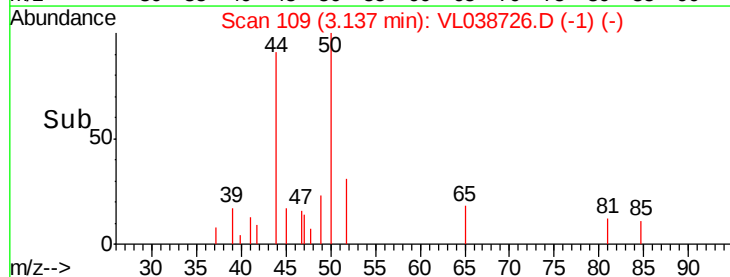
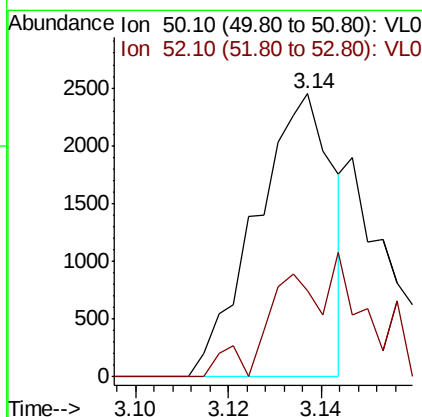
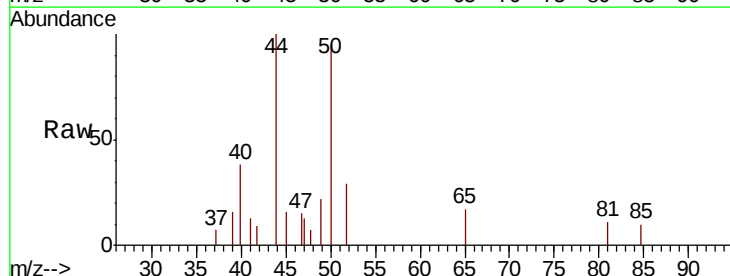
#3
 Chlorodifluoromethane
 Concen: 0.319 ppbv
 RT: 2.99 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 21:51

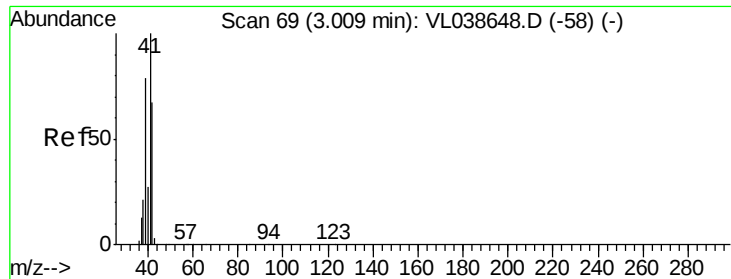
Tot Ion: 51 Resp: 23965
 Ion Ratio Lower Upper
 51 100
 67 15.1 14.1 21.1



#4
 Chloromethane
 Concen: 0.068 ppbv
 RT: 3.14 min Scan# 109
 Delta R.T. -0.00 min
 Lab File: VL038726.D
 Acq: 23 Mar 2022 21:51

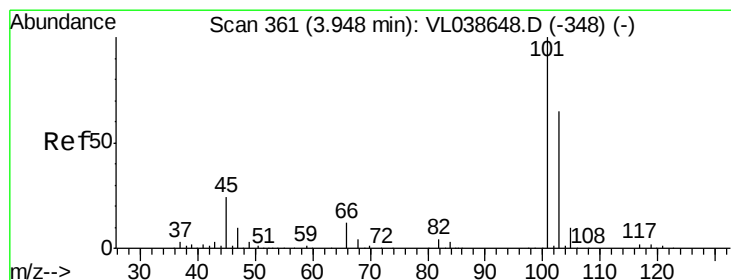
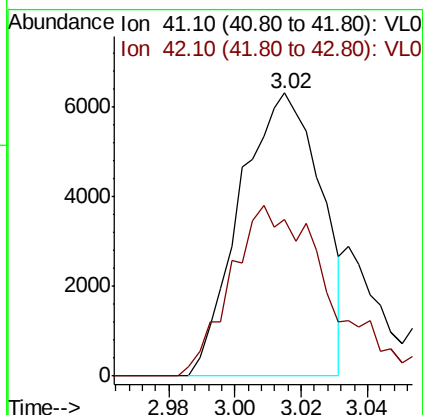
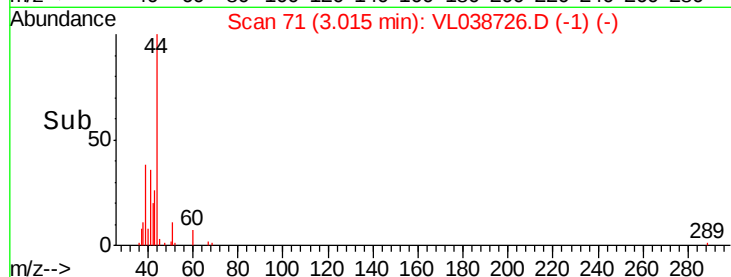
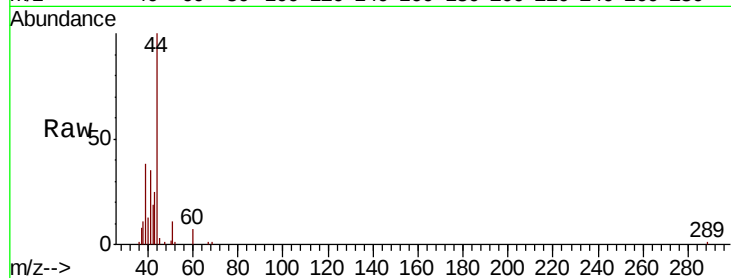
Tgt Ion: 50 Resp: 2818
 Ion Ratio Lower Upper
 50 100
 52 30.6 25.5 38.3





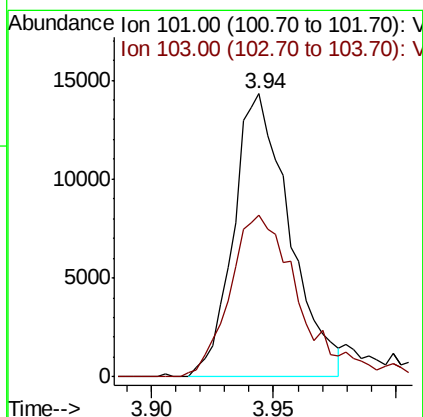
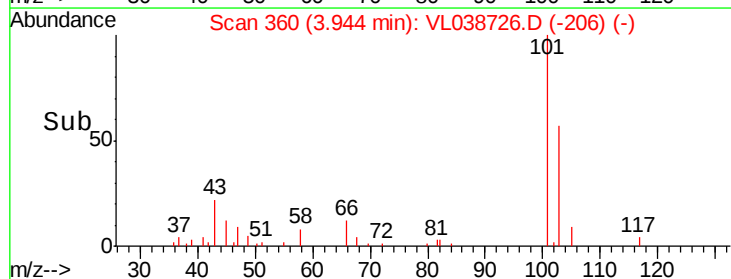
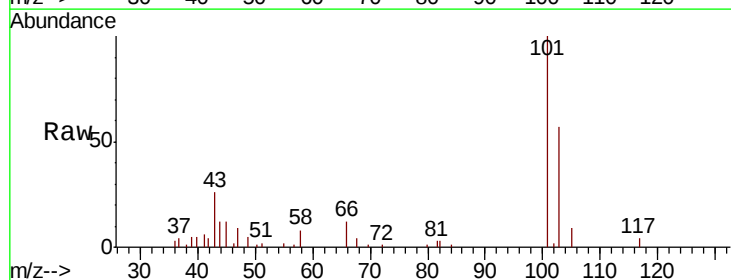
#9
 Propene
 Concen: 0.297 ppbv
 RT: 3.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 23 Mar 2022 21:51

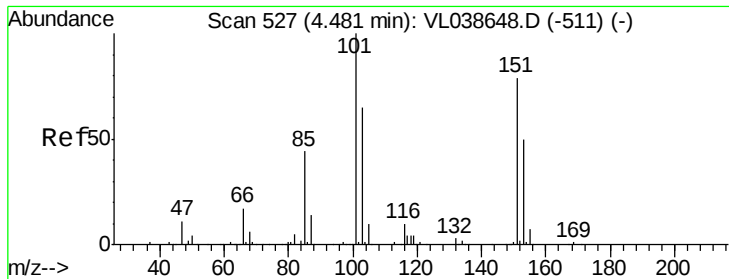
Tot Ion: 41 Resp: 10755
 Ion Ratio Lower Upper
 41 100
 42 77.5 56.2 84.4



#11
 Trichlorofluoromethane
 Concen: 0.272 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL038726.D
 Acq: 23 Mar 2022 21:51

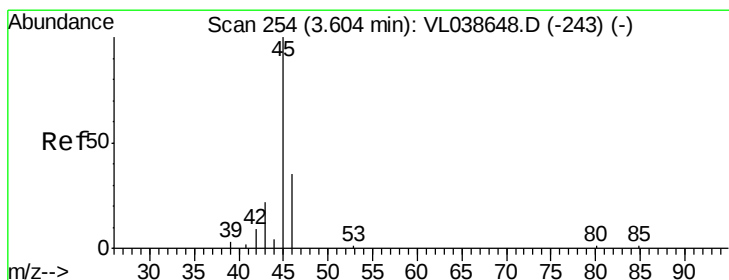
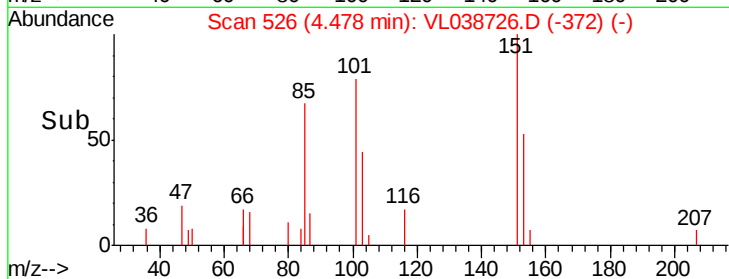
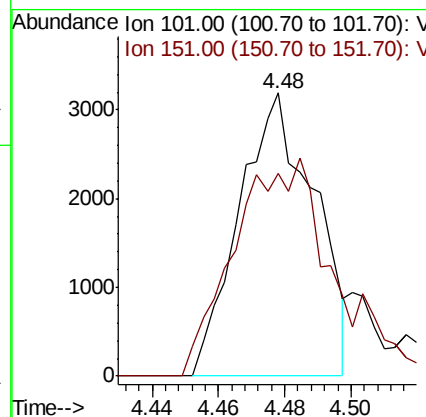
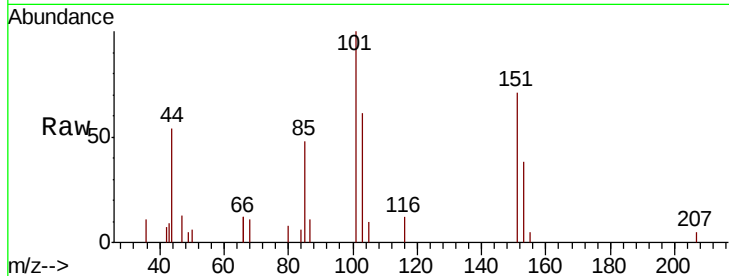
Tgt Ion: 101 Resp: 22896
 Ion Ratio Lower Upper
 101 100
 103 55.4 51.9 77.9





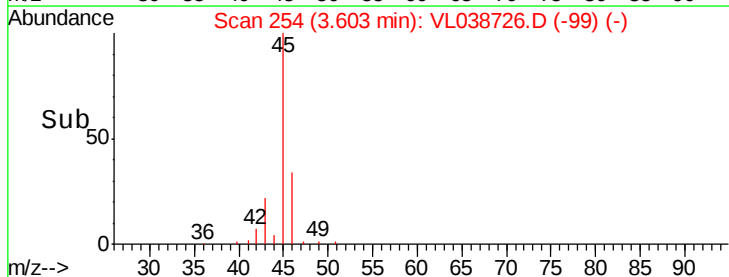
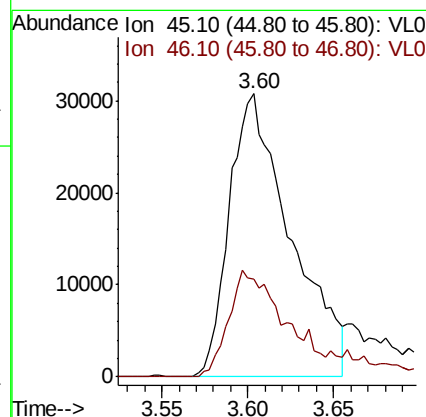
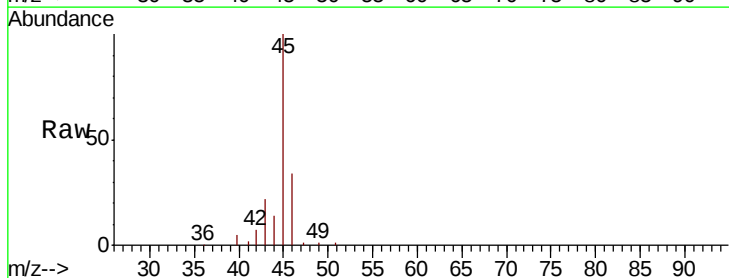
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.078 ppbv
 RT: 4.48
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Mar 2022 21:51

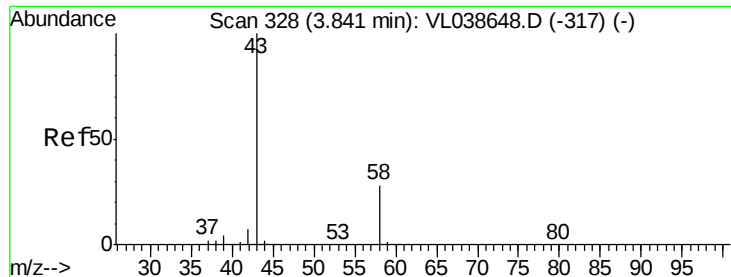
Tot Ion: 101 Resp: 5044
 Ion Ratio Lower Upper
 101 100
 151 105.0 62.9 94.3#



#13
 Ethanol
 Concen: 19.143 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VL038726.D
 Acq: 23 Mar 2022 21:51

Tgt Ion: 45 Resp: 76487
 Ion Ratio Lower Upper
 45 100
 46 45.3 15.1 60.5





#15

Acetone

Concen: 2.919 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

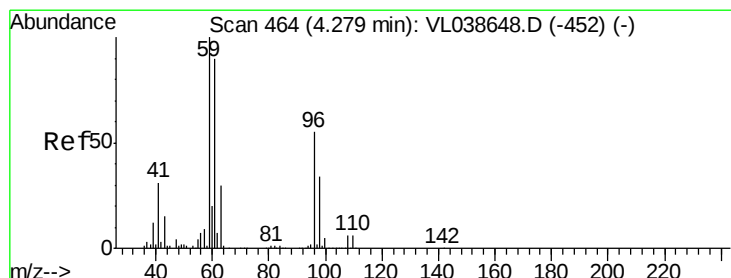
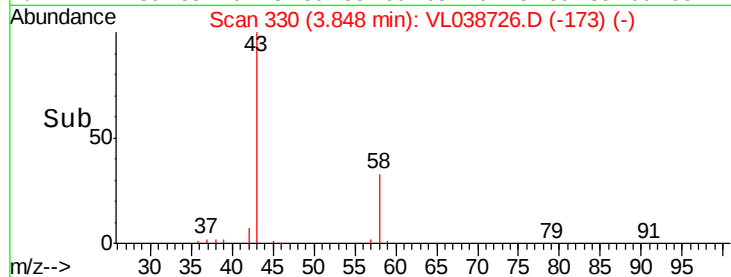
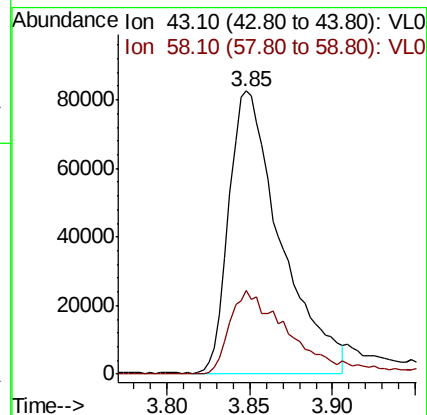
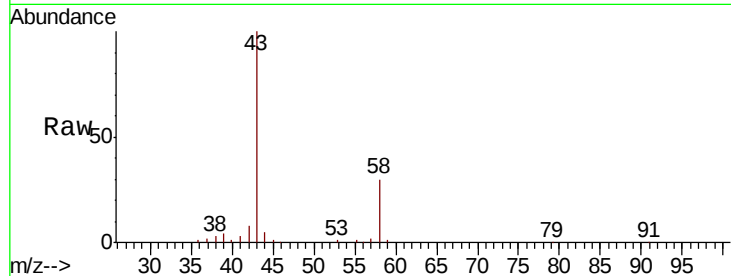
Acq: 23 Mar 2022 21:51

Tot Ion: 43 Resp: 178921

Ion Ratio Lower Upper

43 100

58 36.5 23.3 34.9#



#17

tert-Butyl alcohol

Concen: 0.081 ppbv

RT: 4.29 min Scan# 466

Delta R.T. 0.01 min

Lab File: VL038726.D

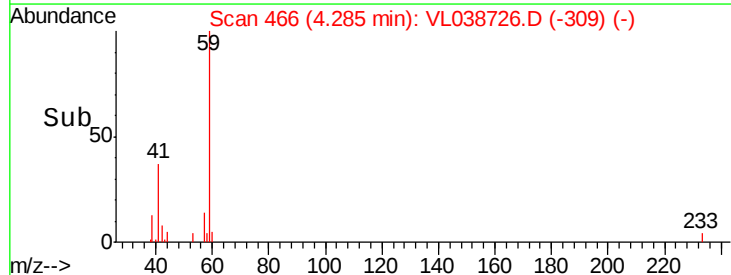
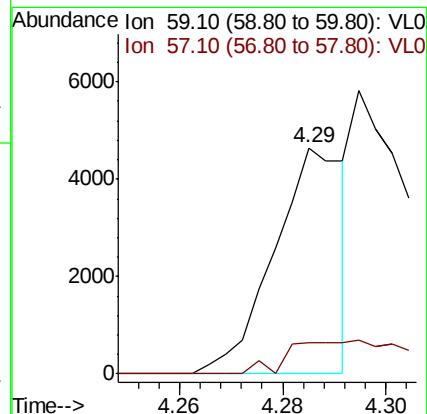
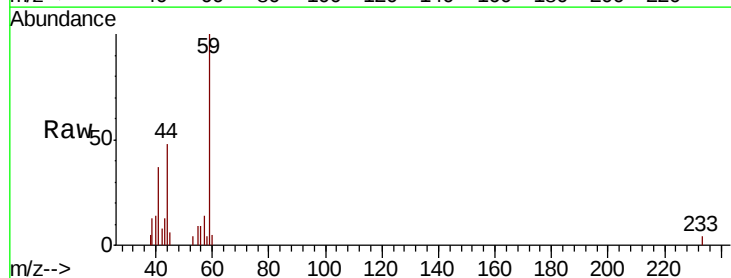
Acq: 23 Mar 2022 21:51

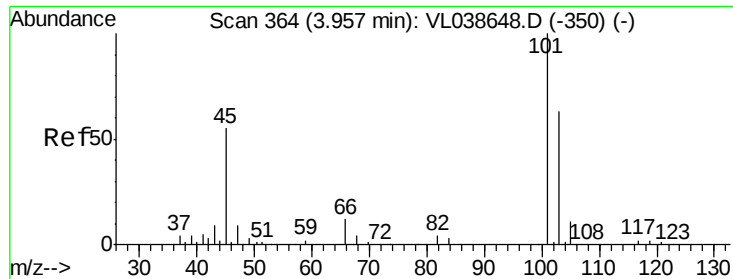
Tgt Ion: 59 Resp: 4353

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#





#19

Isopropyl Alcohol

Concen: 0.747 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

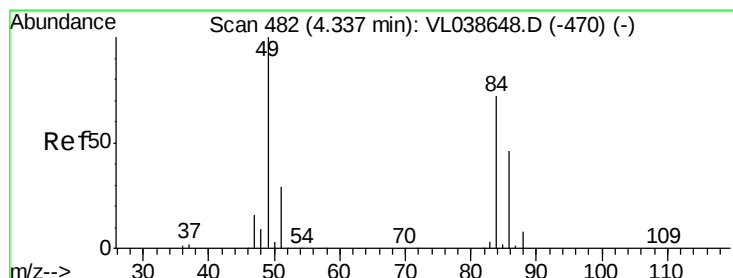
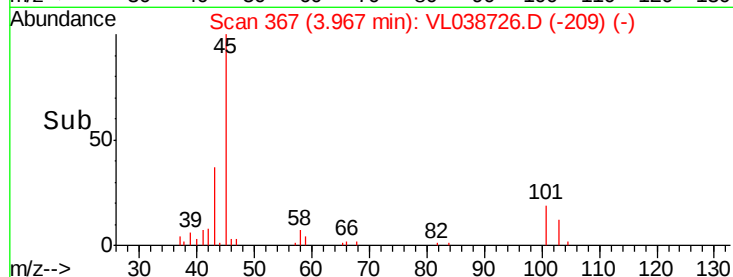
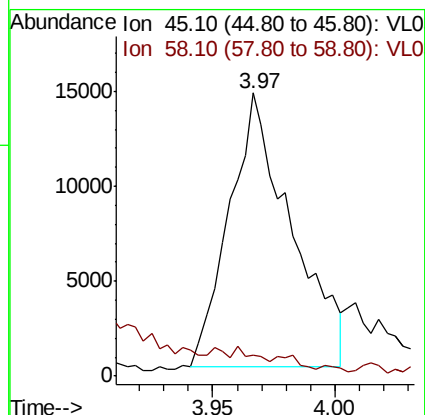
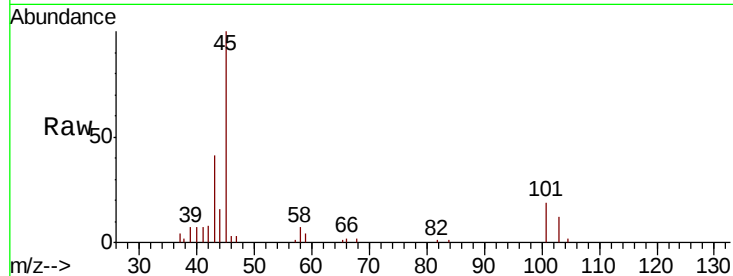
Acq: 23 Mar 2022 21:51

Tot Ion: 45 Resp: 25403

Ion Ratio Lower Upper

45 100

58 257.0 2.3 3.5#



#20

Methylene Chloride

Concen: 0.772 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.00 min

Lab File: VL038726.D

Acq: 23 Mar 2022 21:51

Tgt Ion: 84 Resp: 19933

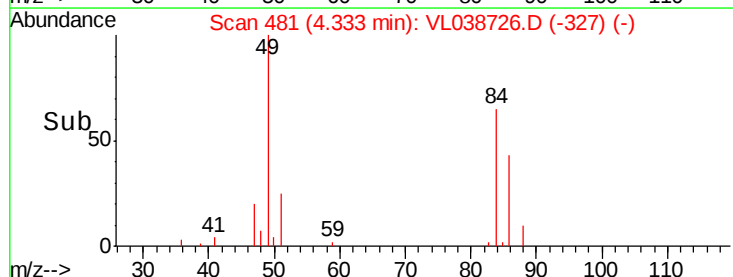
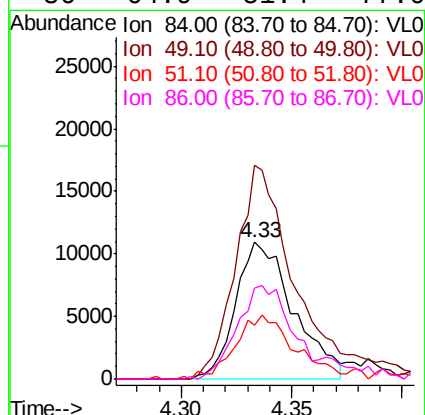
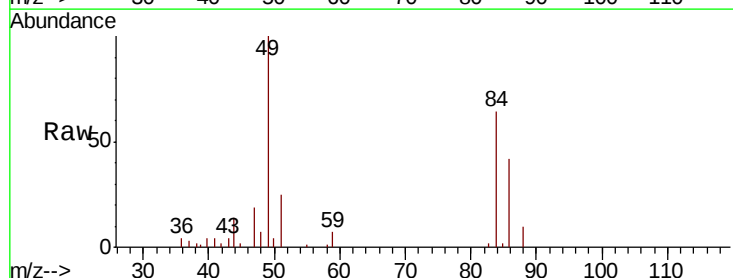
Ion Ratio Lower Upper

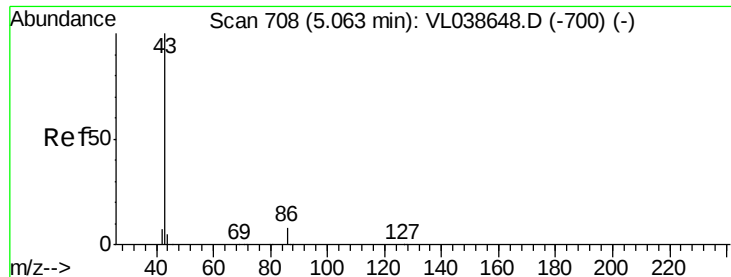
84 100

49 156.5 111.2 166.8

51 39.4 32.8 49.2

86 64.9 51.4 77.0





#23

Vinyl Acetate

Concen: 0.120 ppbv

RT: 5.05 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 21:51

Tot Ion: 43 Resp: 7131

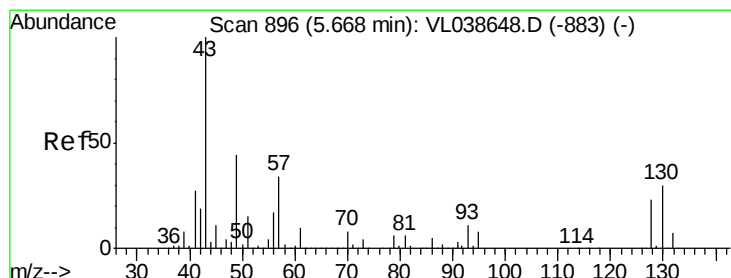
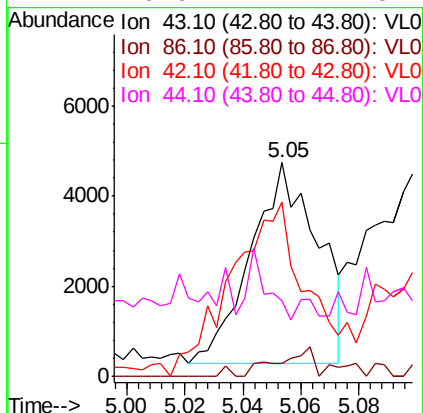
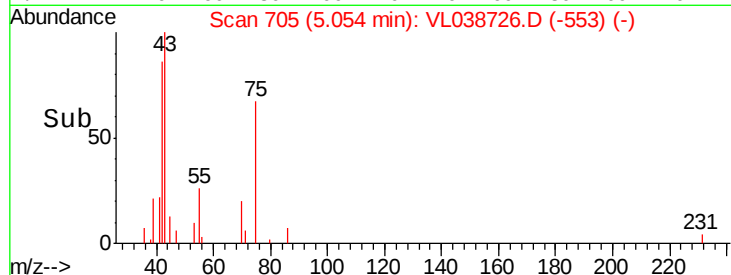
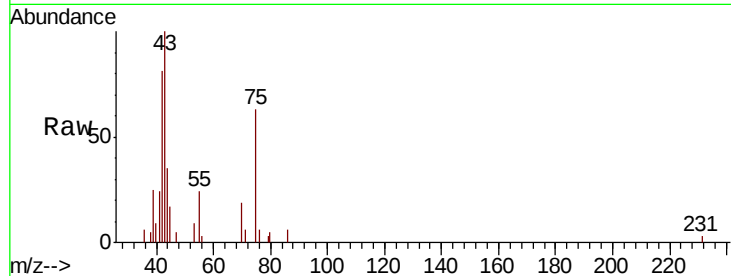
Ion Ratio Lower Upper

43 100

86 6.6 5.6 8.4

42 74.6 6.8 10.2#

44 0.0 4.2 6.2#



#25

Ethyl Acetate

Concen: 0.113 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL038726.D

Acq: 23 Mar 2022 21:51

Tgt Ion: 43 Resp: 17500

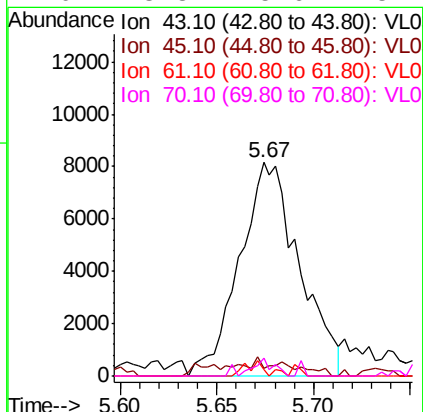
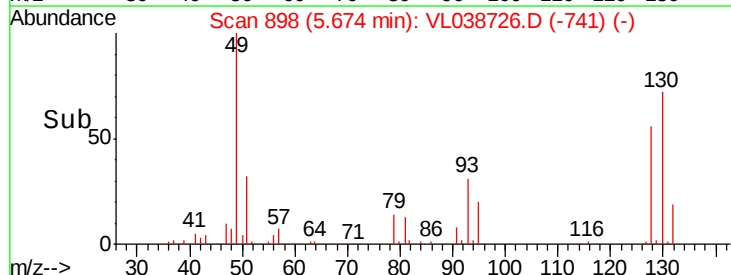
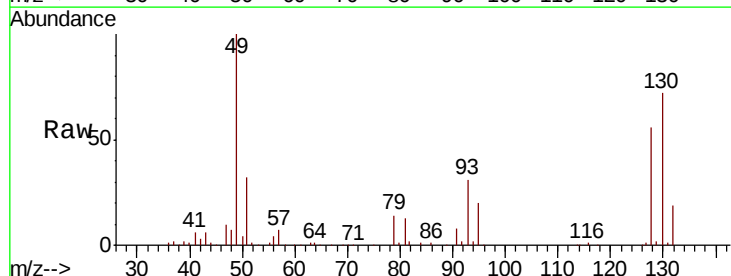
Ion Ratio Lower Upper

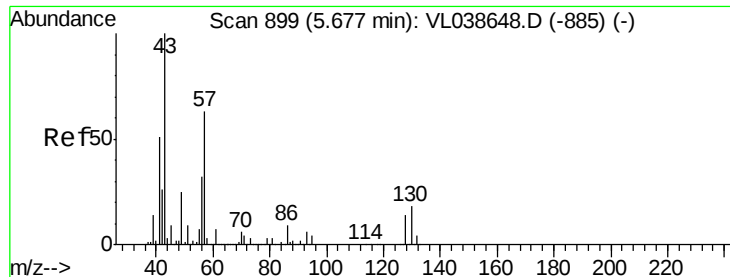
43 100

45 7.5 8.2 12.4#

61 2.4 8.3 12.5#

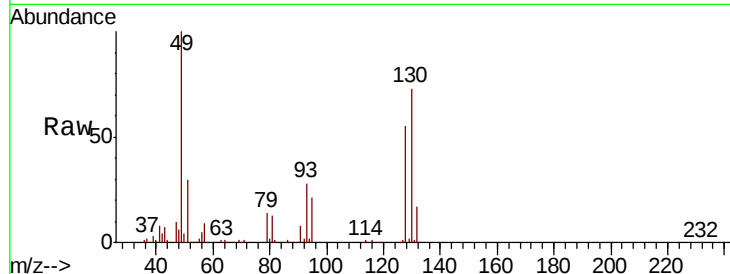
70 3.8 5.6 8.4#



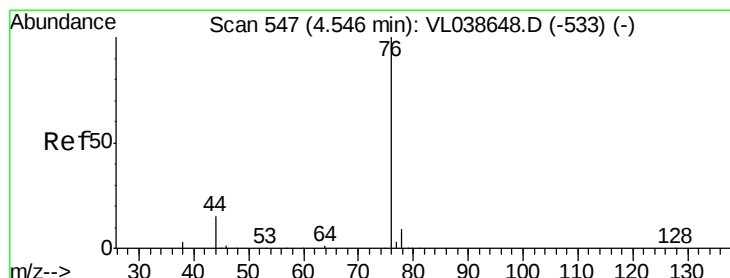
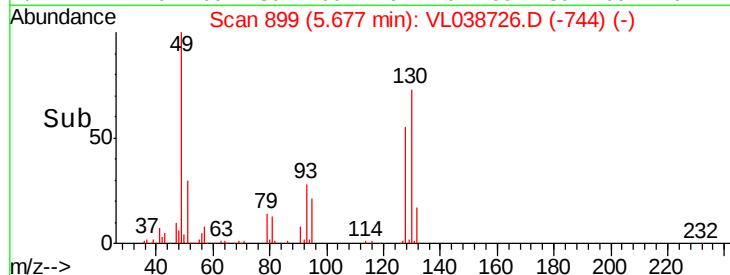
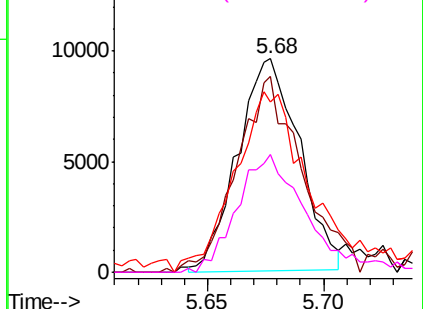


#26
Hexane
Concen: 0.257 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 21:51

Tot Ion: 57 Resp: 17776
Ion Ratio Lower Upper
57 100
41 102.8 67.0 100.4#
43 130.4 184.2 276.2#
56 63.4 42.6 64.0

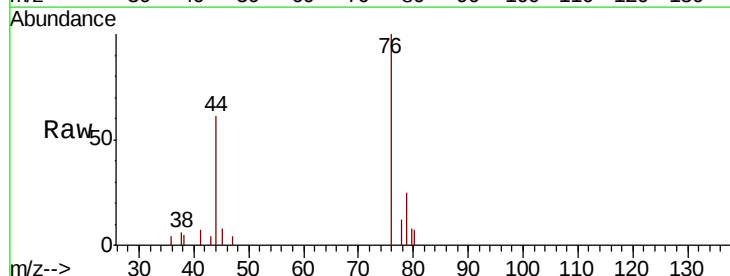


Abundance Ion 57.10 (56.80 to 57.80): VL0
15000 Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

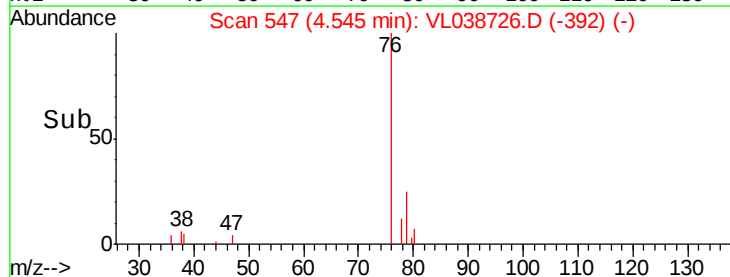
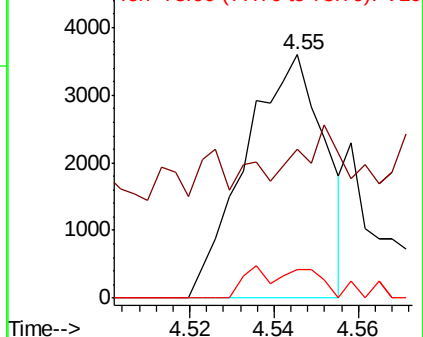


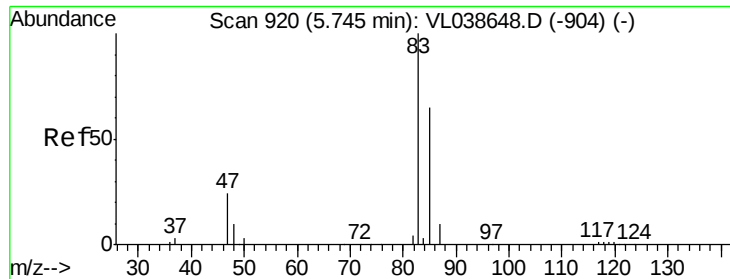
#27
Carbon Disulfide
Concen: 0.069 ppbv
RT: 4.55 min Scan# 547
Delta R.T. -0.00 min
Lab File: VL038726.D
Acq: 23 Mar 2022 21:51

Tgt Ion: 76 Resp: 4692
Ion Ratio Lower Upper
76 100
44 74.7 12.4 18.6#
78 13.0 7.8 11.8#



Abundance Ion 76.00 (75.70 to 76.70): VL0
5000 Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.294 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

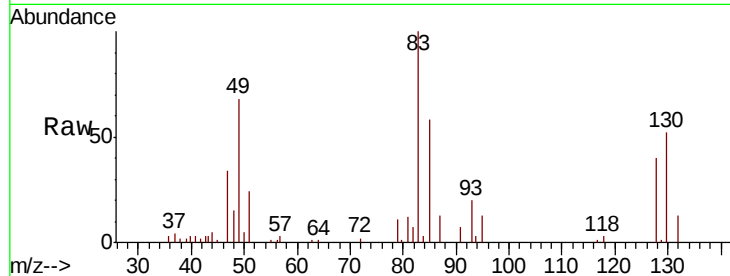
Acq: 23 Mar 2022 21:51

Tot Ion: 83 Resp: 32570

Ion Ratio Lower Upper

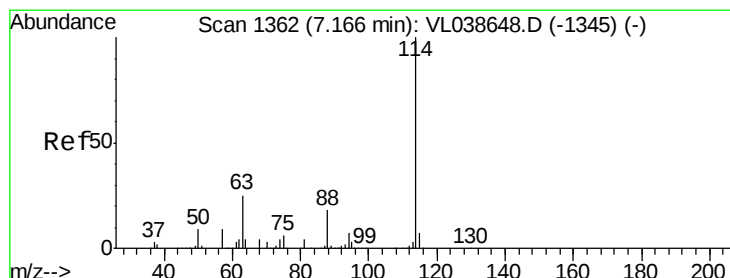
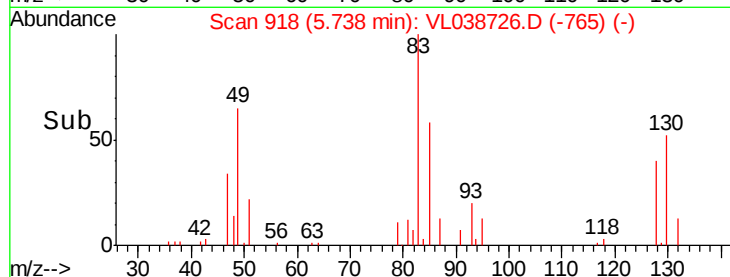
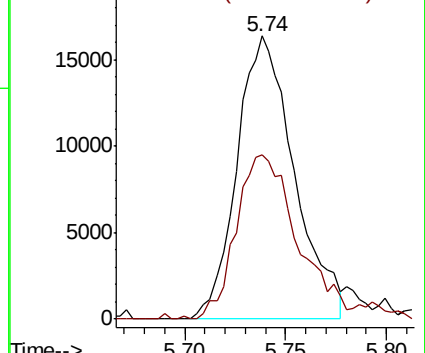
83 100

85 58.1 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VL038726.D

Acq: 23 Mar 2022 21:51

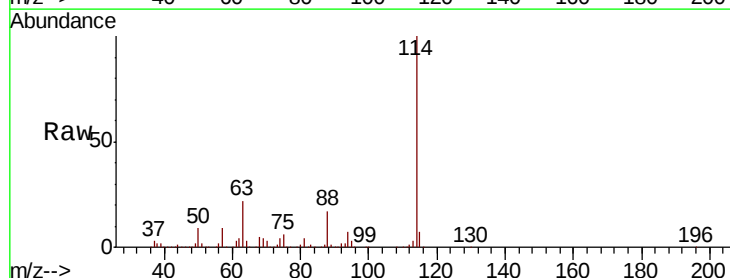
Tgt Ion: 114 Resp: 1916709

Ion Ratio Lower Upper

114 100

63 23.5 19.4 29.0

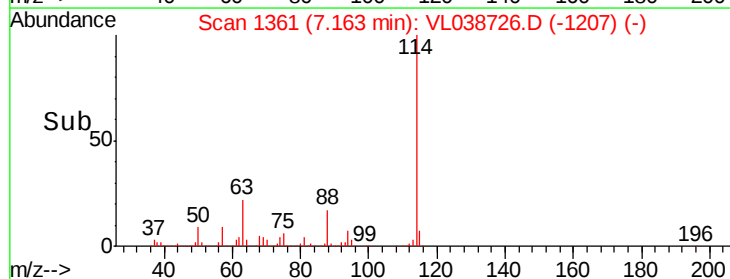
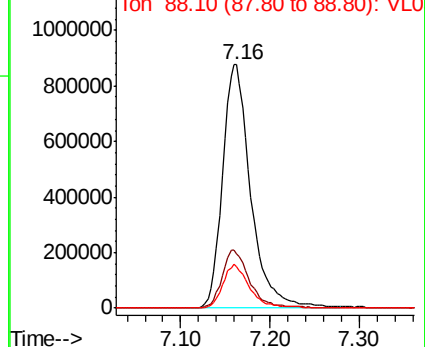
88 17.2 13.9 20.9

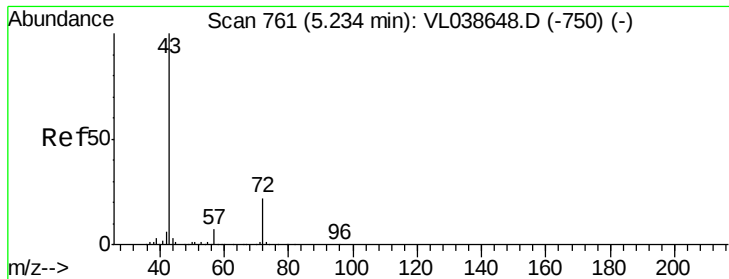


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

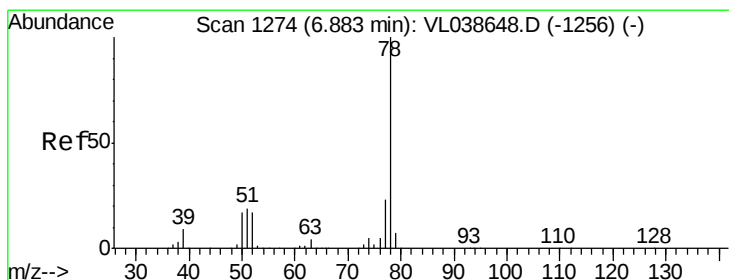
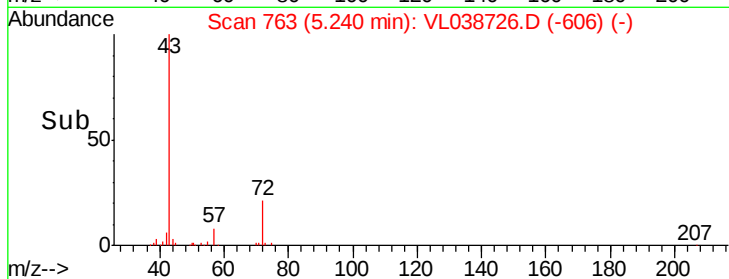
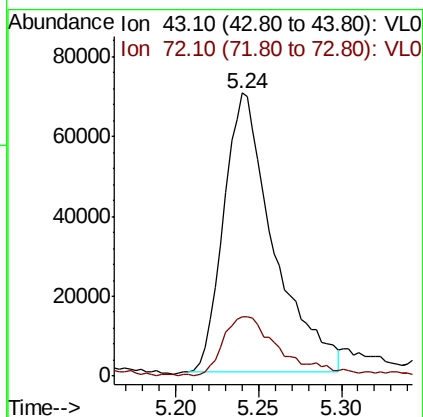
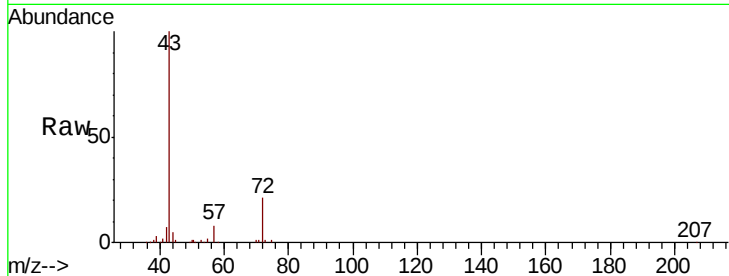
Ion 88.10 (87.80 to 88.80): VL0





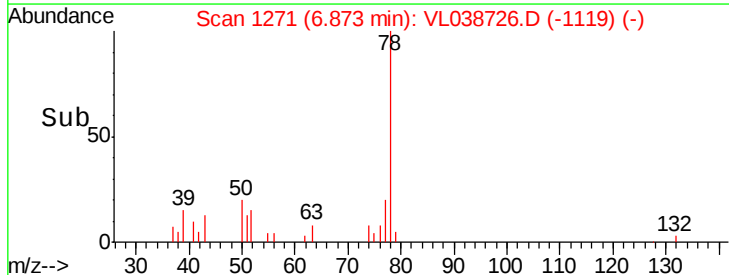
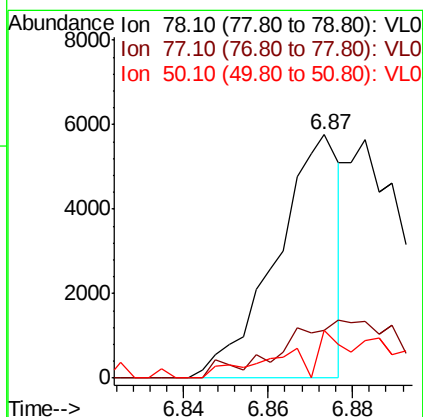
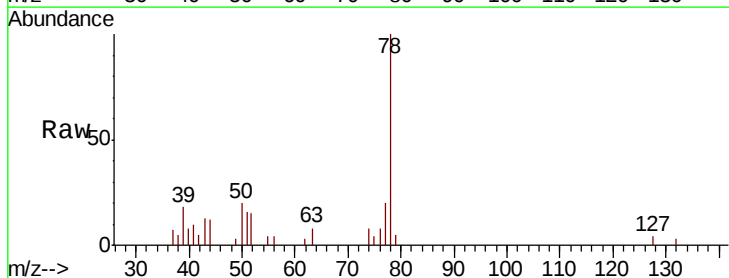
#34
 2-Butanone
 Concen: 1.934 ppbv
 RT: 5.24
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 21:51

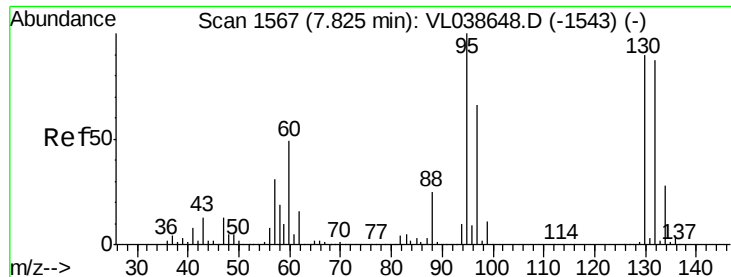
Tot Ion: 43 Resp: 146751
 Ion Ratio Lower Upper
 43 100
 72 24.7 17.8 26.8



#36
 Benzene
 Concen: 0.041 ppbv
 RT: 6.87 min Scan# 1271
 Delta R.T. -0.01 min
 Lab File: VL038726.D
 Acq: 23 Mar 2022 21:51

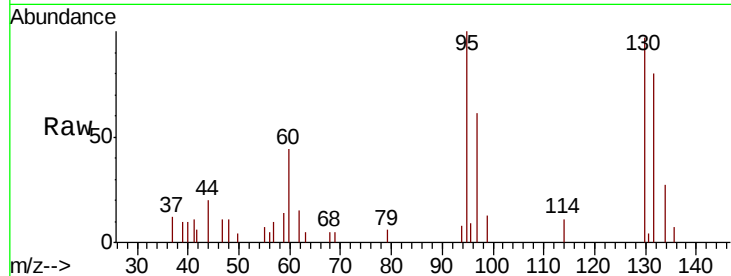
Tgt Ion: 78 Resp: 6014
 Ion Ratio Lower Upper
 78 100
 77 19.8 18.1 27.1
 50 19.8 13.6 20.4



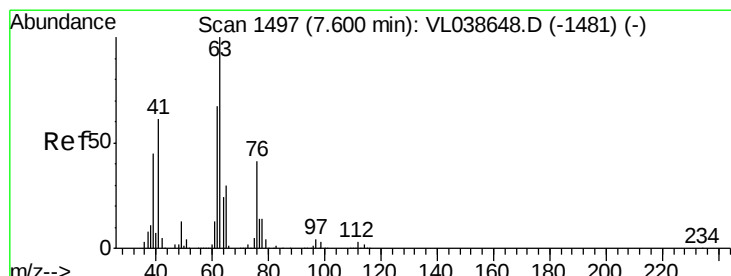
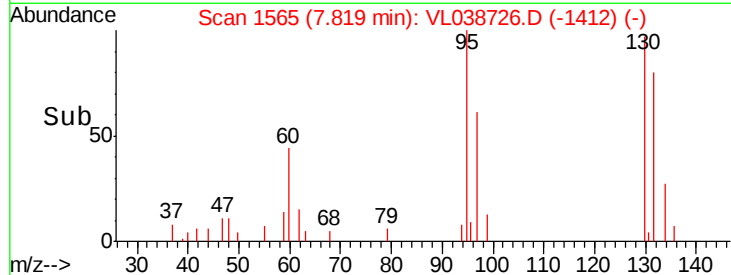
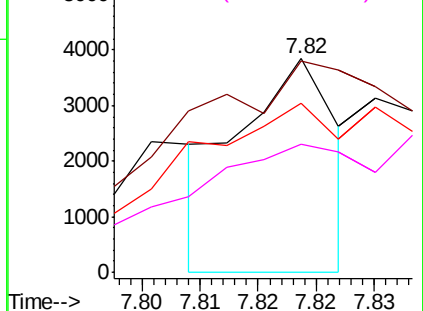


#38
 Trichloroethene
 Concen: 0.036 ppbv
 RT: 7.82 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Mar 2022 21:51

Tot Ion: 130 Resp: 2253
 Ion Ratio Lower Upper
 130 100
 95 59.0 88.9 133.3#
 132 45.2 77.4 116.0#
 97 61.0 58.2 87.4

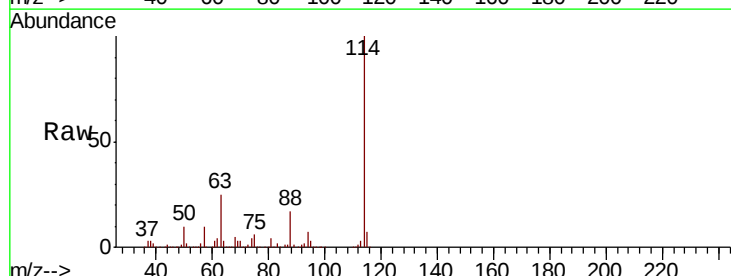


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

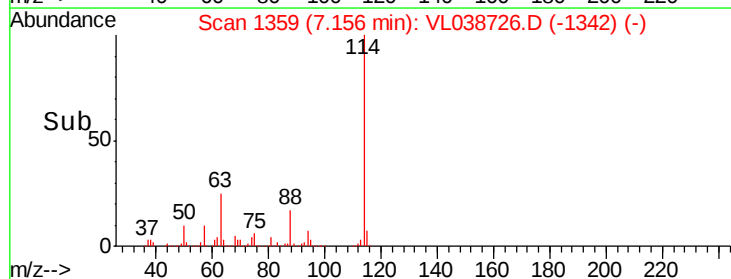
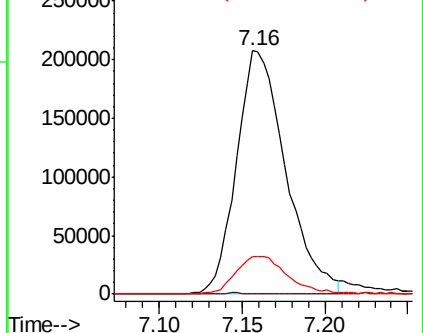


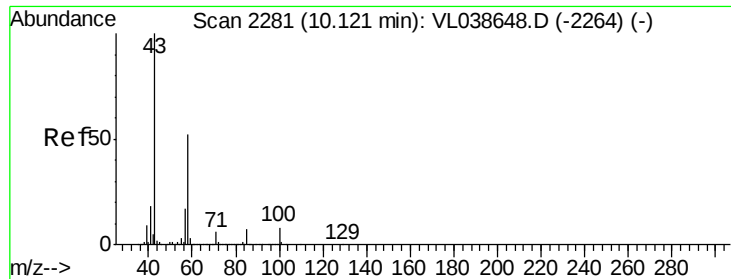
#39
 1,2-Dichloropropane
 Concen: 7.410 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T.: -0.44 min
 Lab File: VL038726.D
 Acq: 23 Mar 2022 21:51

Tgt Ion: 63 Resp: 428516
 Ion Ratio Lower Upper
 63 100
 41 0.2 49.0 73.6#
 62 15.2 53.9 80.9#



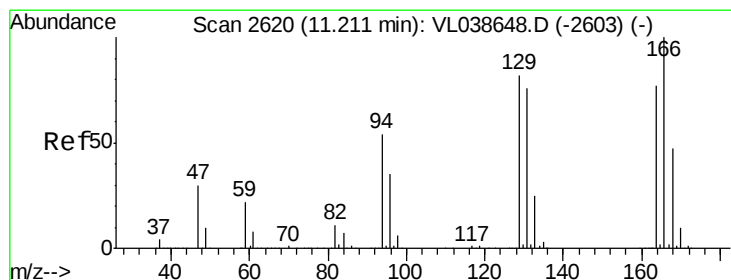
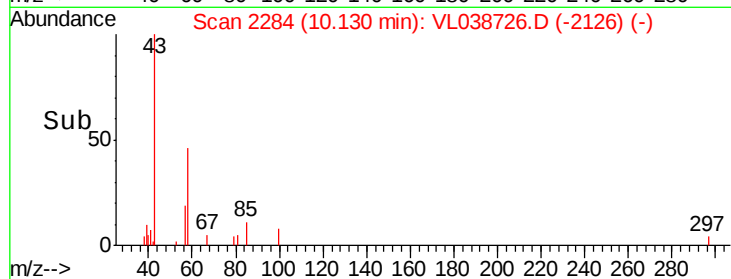
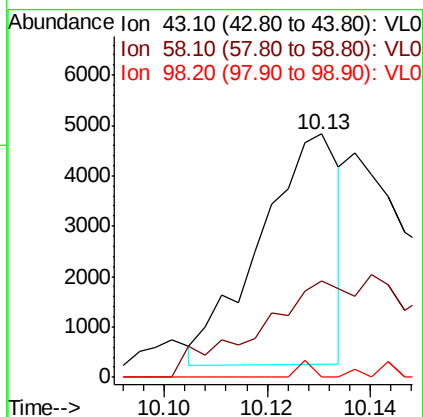
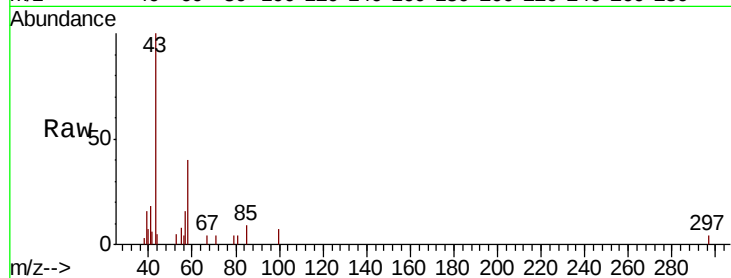
Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0





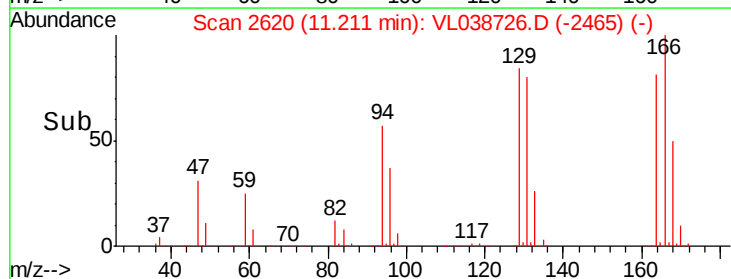
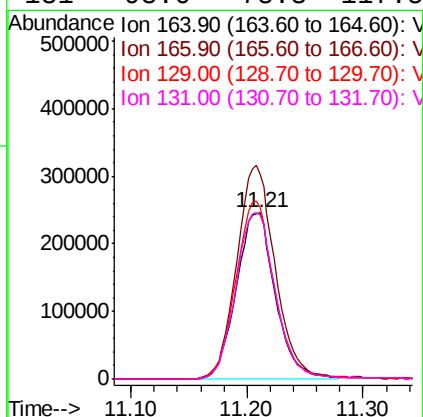
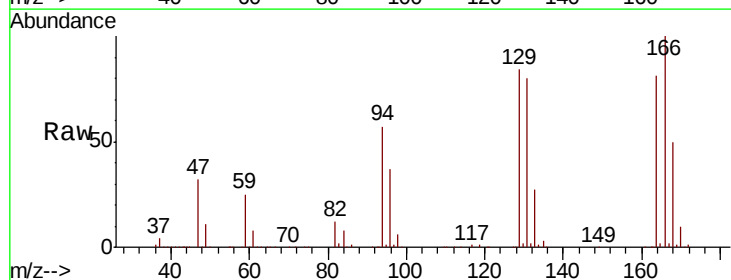
#51
 2-Hexanone
 Concen: 0.048 ppbv
 RT: 10.13 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 21:51

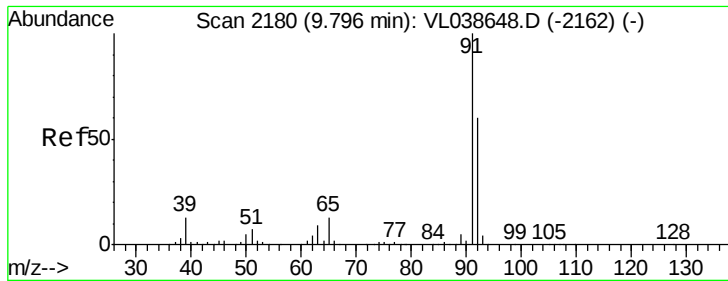
Tot Ion	43	Resp	4861
Ion Ratio	Lower	Upper	
43	100		
58	0.0	41.2	61.8#
98	3.2	0.2	0.4#



#52
 Tetrachloroethene
 Concen: 10.552 ppbv
 RT: 11.21 min Scan# 2620
 Delta R.T. -0.00 min
 Lab File: VL038726.D
 Acq: 23 Mar 2022 21:51

Tgt Ion	164	Resp	571223
Ion Ratio	Lower	Upper	
164	100		
166	123.5	103.3	154.9
129	103.6	85.2	127.8
131	98.6	78.3	117.5





#53

Toluene

Concen: 0.304 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

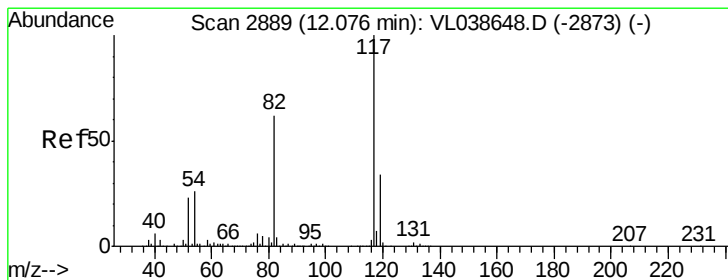
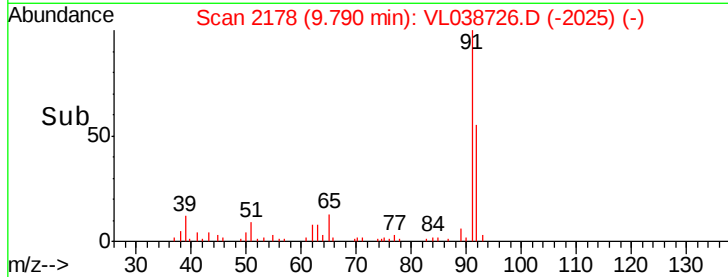
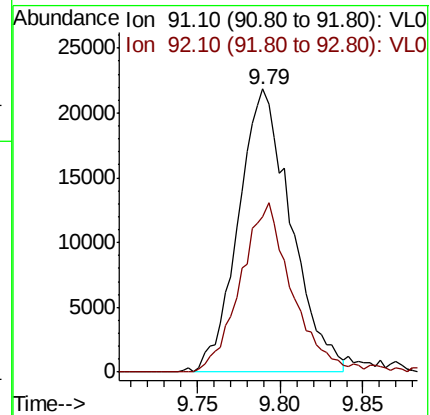
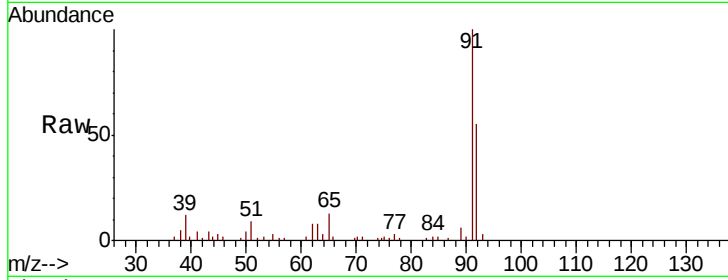
Acq: 23 Mar 2022 21:51

Tot Ion: 91 Resp: 48395

Ion Ratio Lower Upper

91 100

92 58.2 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: VL038726.D

Acq: 23 Mar 2022 21:51

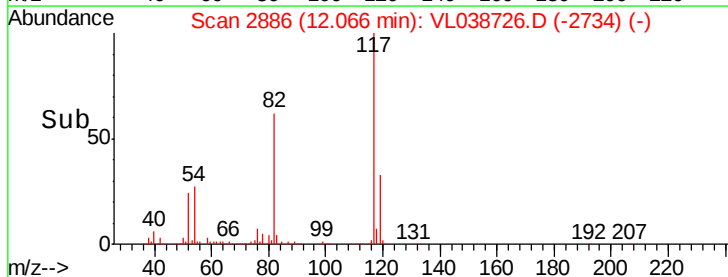
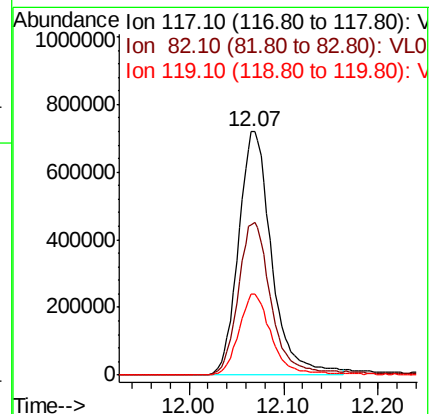
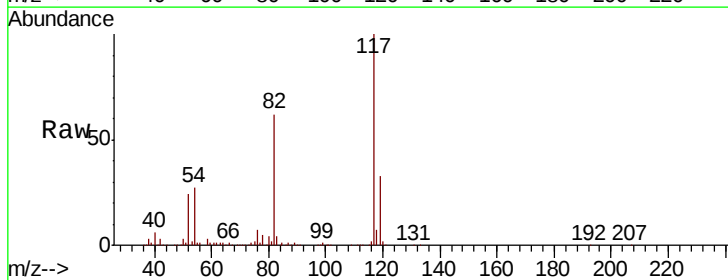
Tgt Ion: 117 Resp: 1754447

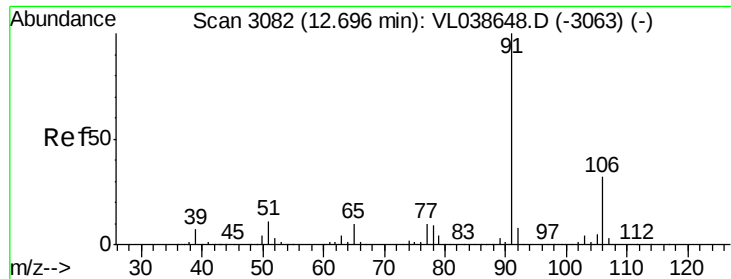
Ion Ratio Lower Upper

117 100

82 64.9 51.6 77.4

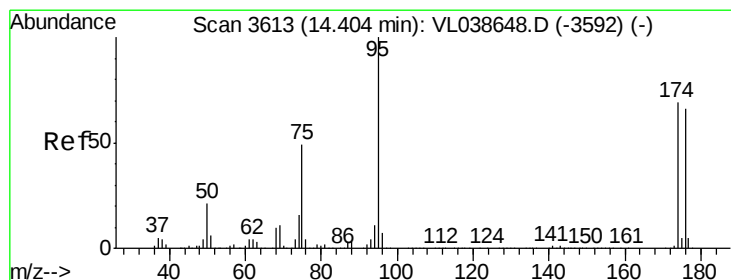
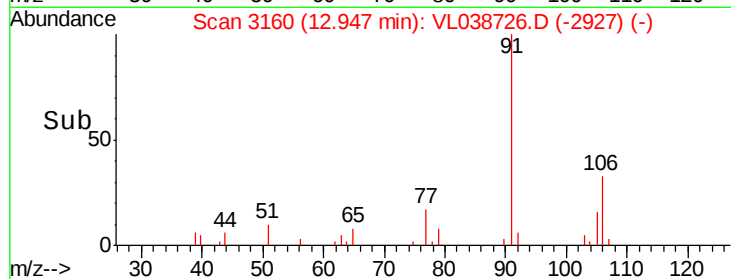
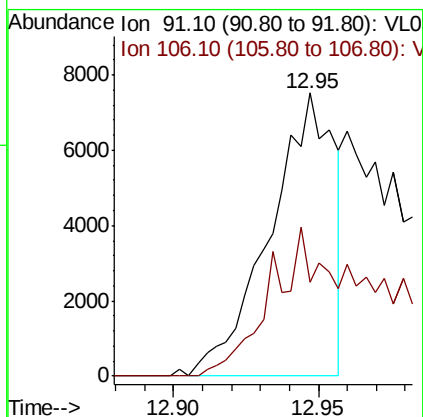
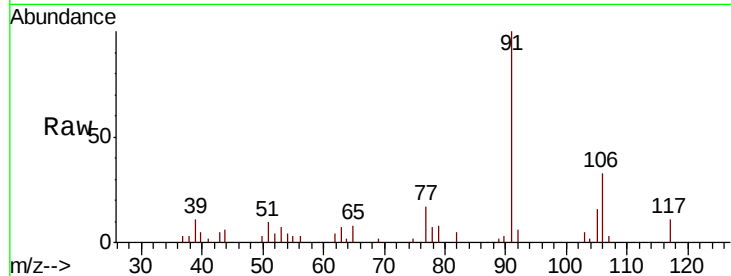
119 33.8 26.9 40.3





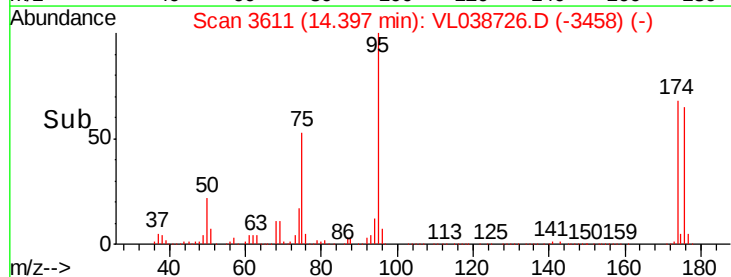
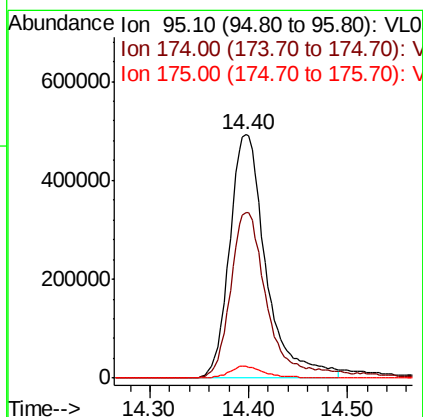
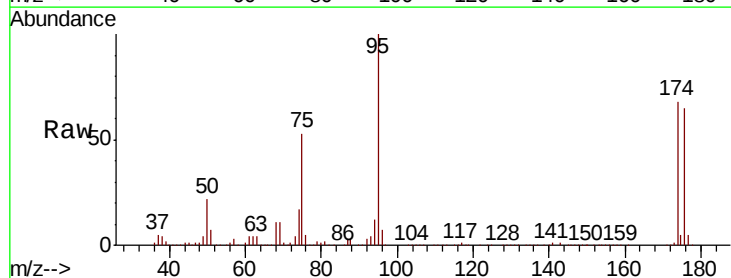
#58
Ethyl Benzene
Concen: 0.056 ppbv
RT: 12.95 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 21:51

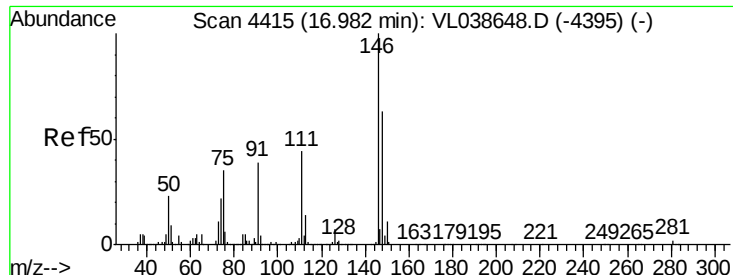
Tot Ion: 91 Resp: 11585
Ion Ratio Lower Upper
91 100
106 33.3 25.4 38.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.413 ppbv
RT: 14.40 min Scan# 3611
Delta R.T.: -0.01 min
Lab File: VL038726.D
Acq: 23 Mar 2022 21:51

Tgt Ion: 95 Resp: 1266144
Ion Ratio Lower Upper
95 100
174 71.4 56.1 84.1
175 5.1 4.2 6.2





#75

1,3-Dichlorobenzene

Concen: 0.090 ppbv

RT: 16.98

Delta R.T. MSVOA_L

Lab File:

Acq: 23 Mar 2022 21:51

ClientSampleId :

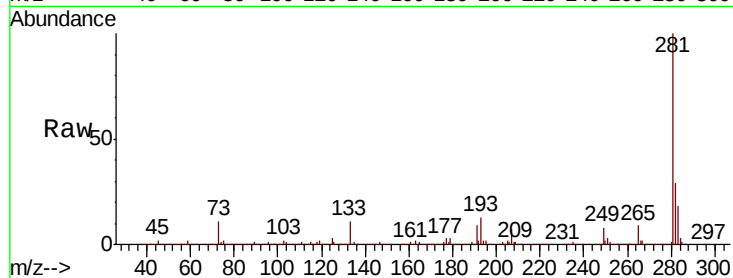
Tot Ion:146 Resp: 11505

Ion Ratio Lower Upper

146 100

111 429.2 22.2 66.6#

148 242.4 32.5 97.5#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

