

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
 Data File : VL037834.D
 Acq On : 12 Oct 2021 17:56
 Operator : SY/AP
 Sample : M4079-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P04

Quant Time: Oct 14 01:05:32 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1287774	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3674797	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3049145	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2127812	9.98	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

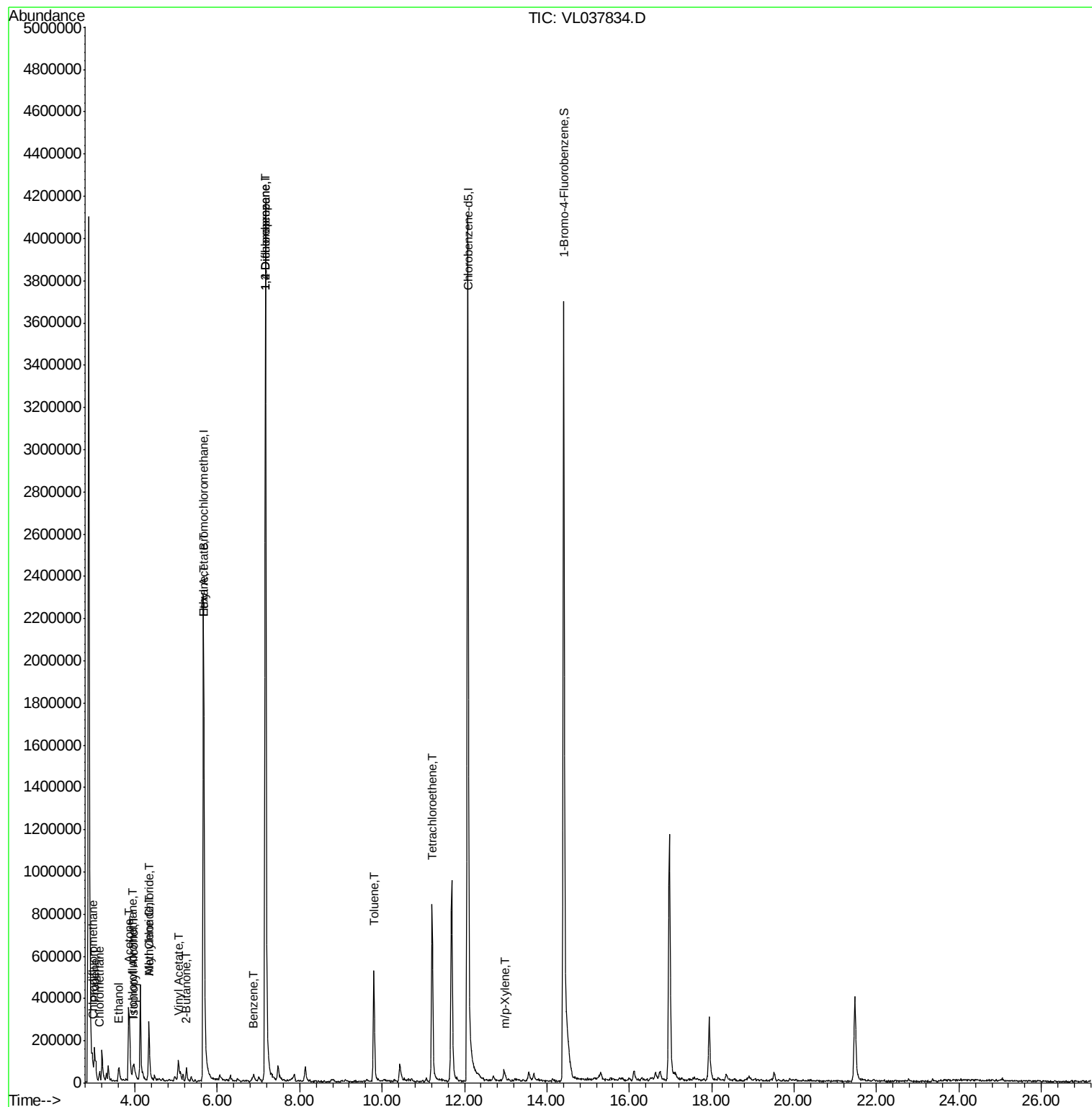
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	111201	0.449	ppbv #	78
4) Chloromethane	3.14	50	24278	0.268	ppbv #	89
9) Propene	3.02	41	40533	0.445	ppbv #	83
11) Trichlorofluoromethane	3.95	101	33784	0.184	ppbv	96
13) Ethanol	3.60	45	82817	11.123	ppbv	87
15) Acetone	3.85	43	488941	4.229	ppbv	97
19) Isopropyl Alcohol	3.97	45	90667	1.261	ppbv #	1
20) Methylene Chloride	4.34	84	100449	1.720	ppbv	95
21) Allyl Chloride	4.34	41	2176	0.021	ppbv #	1
23) Vinyl Acetate	5.06	43	43461	0.251	ppbv #	49
25) Ethyl Acetate	5.68	43	103283	0.318	ppbv	97
26) Hexane	5.68	57	73928	0.463	ppbv #	69
34) 2-Butanone	5.25	43	87238	0.588	ppbv	97
36) Benzene	6.88	78	17163	0.055	ppbv #	88
39) 1,2-Dichloropropane	7.17	63	856925	7.258	ppbv #	28
52) Tetrachloroethene	11.21	164	228837	1.874	ppbv	98
53) Toluene	9.80	91	252448	0.726	ppbv #	41
59) m/p-Xylene	12.98	91	13174	0.037	ppbv #	1

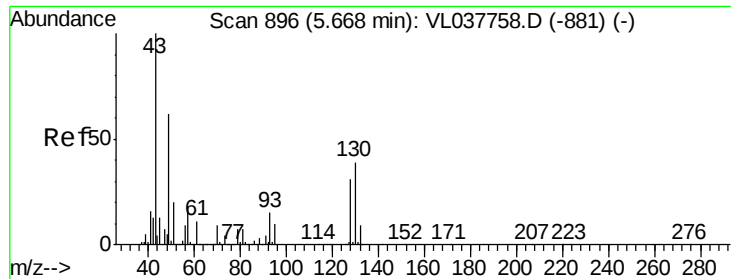
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP04

Acq: 12 Oct 2021 17:56

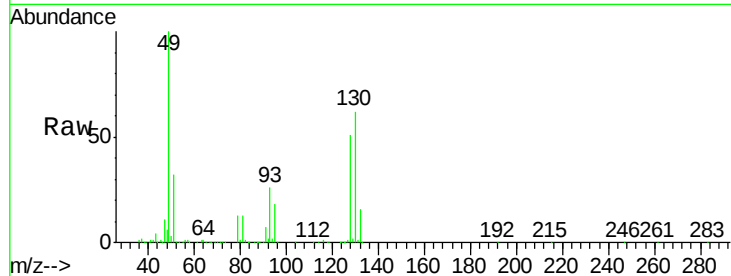
Tgt Ion: 49 Resp: 1287774

Ion Ratio Lower Upper

49 100

128 51.4 27.1 81.3

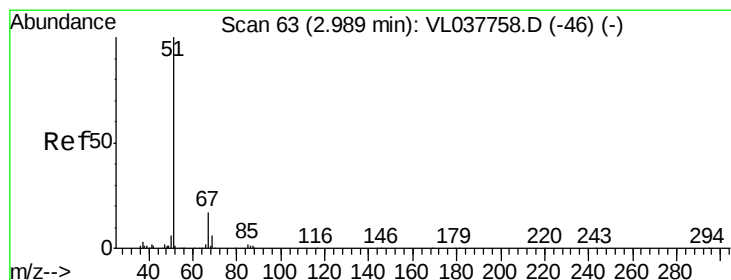
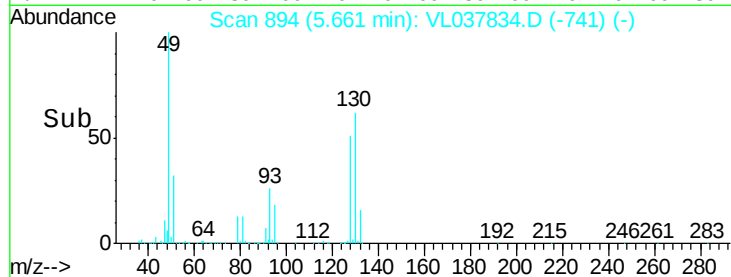
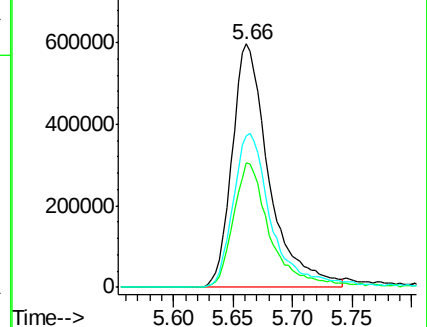
130 65.7 33.2 99.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.449 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL037834.D

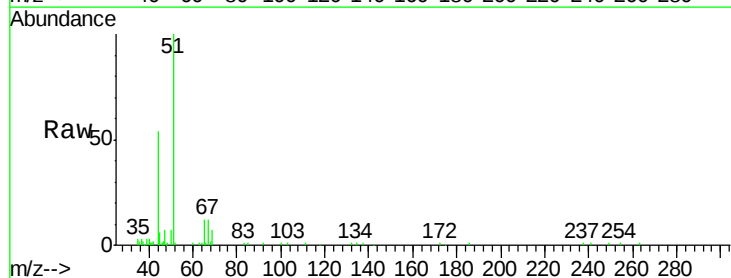
Acq: 12 Oct 2021 17:56

Tgt Ion: 51 Resp: 111201

Ion Ratio Lower Upper

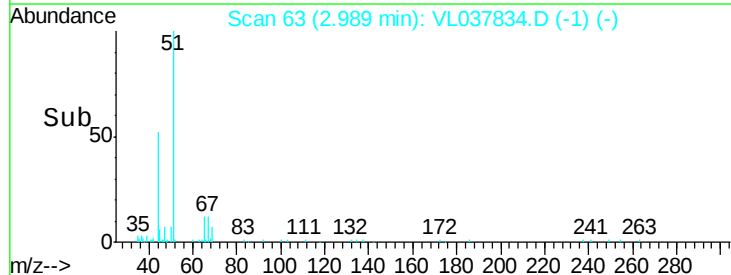
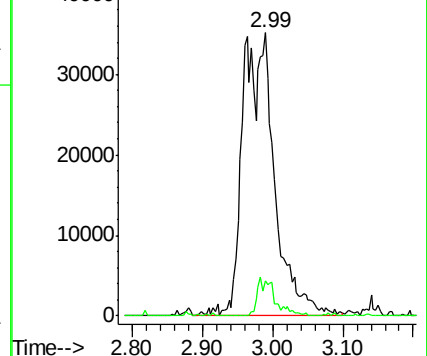
51 100

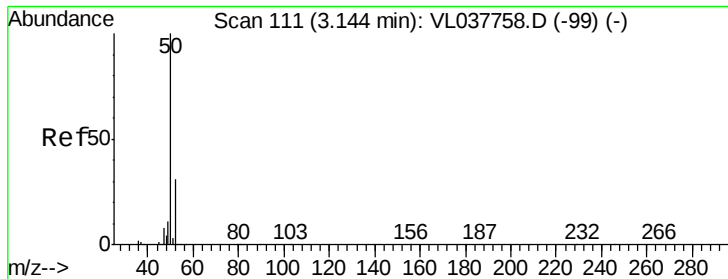
67 7.5 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.268 ppbv

RT: 3.14 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P04

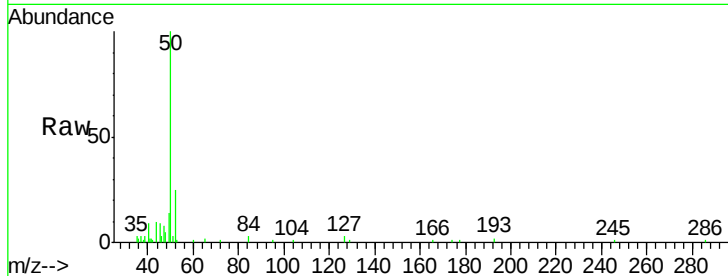
Acq: 12 Oct 2021 17:58

Tgt Ion: 50 Resp: 24278

Ion Ratio Lower Upper

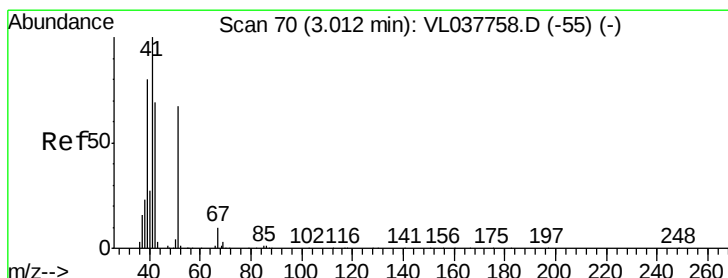
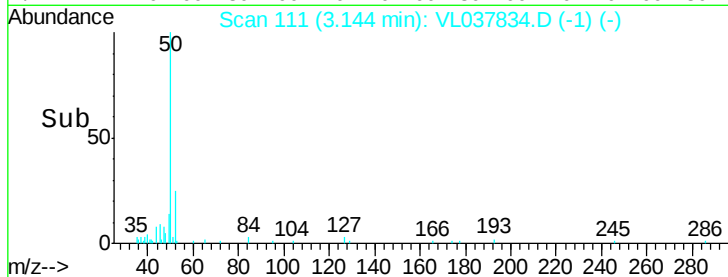
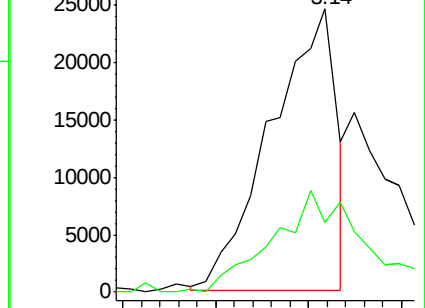
50 100

52 24.3 24.4 36.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.445 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL037834.D

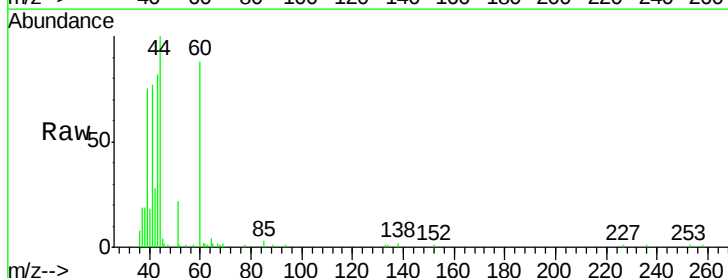
Acq: 12 Oct 2021 17:56

Tgt Ion: 41 Resp: 40533

Ion Ratio Lower Upper

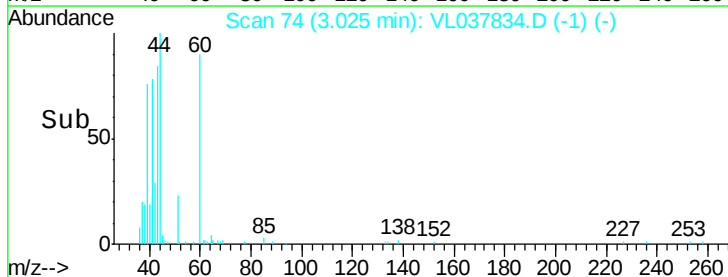
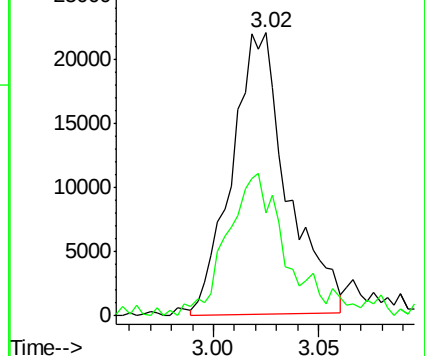
41 100

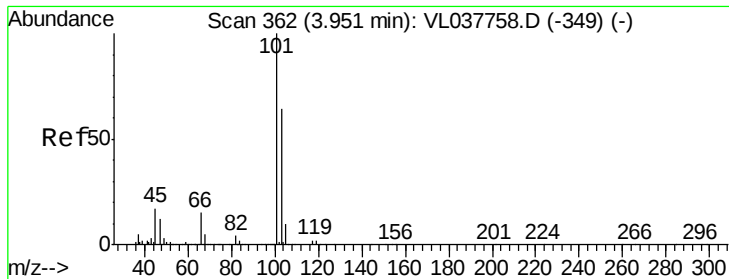
42 53.8 54.2 81.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

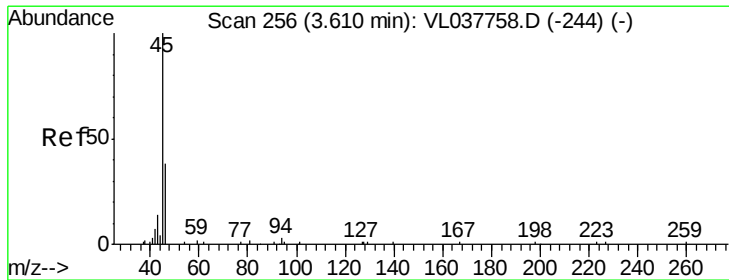
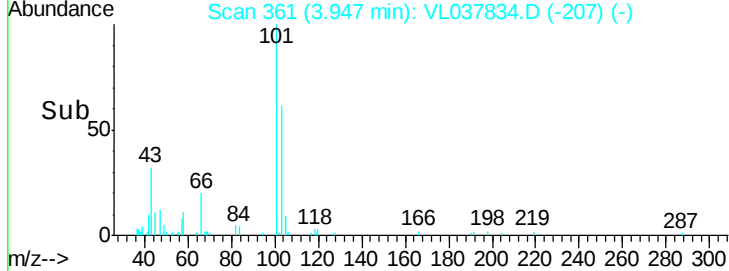
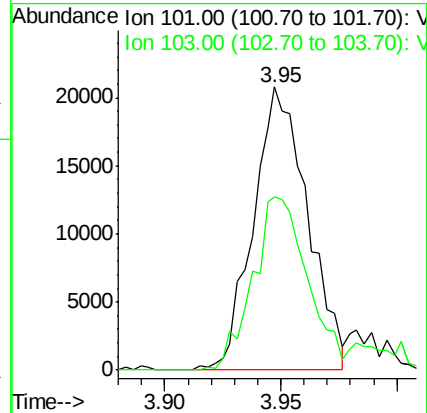
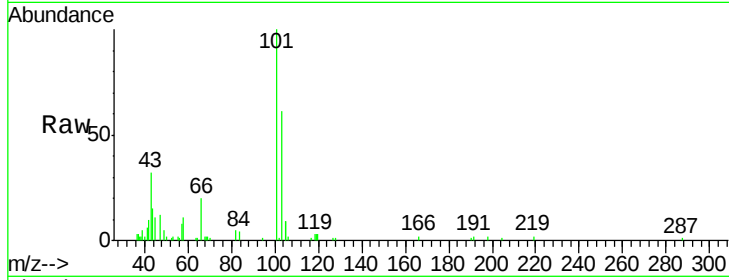
Ion 42.10 (41.80 to 42.80): VL0





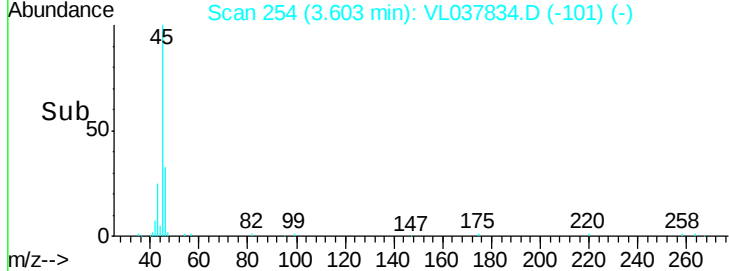
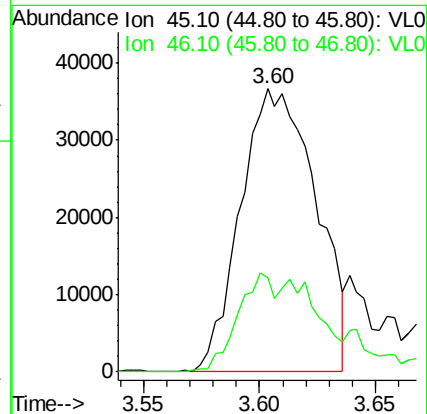
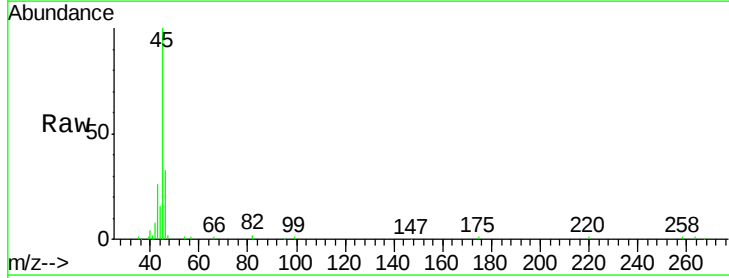
#11
 Trichlorofluoromethane
 Concen: 0.184 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 17:56

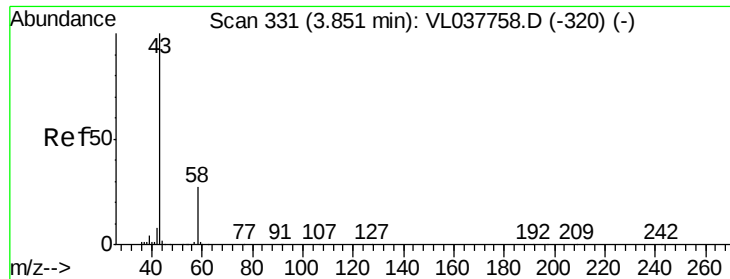
Tgt Ion:101 Resp: 33784
 Ion Ratio Lower Upper
 101 100
 103 61.1 51.5 77.3



#13
 Ethanol
 Concen: 11.123 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VL037834.D
 Acq: 12 Oct 2021 17:56

Tgt Ion: 45 Resp: 82817
 Ion Ratio Lower Upper
 45 100
 46 41.4 20.2 81.0





#15

Acetone

Concen: 4.229 ppbv

RT: 3.85 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P04

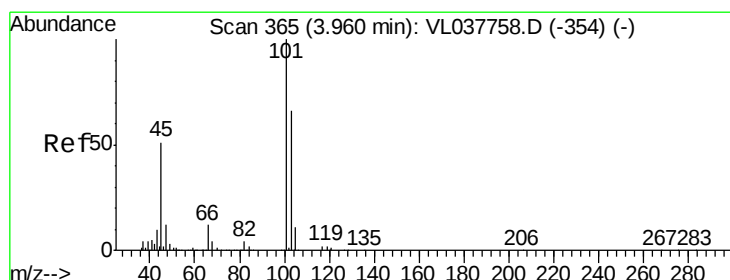
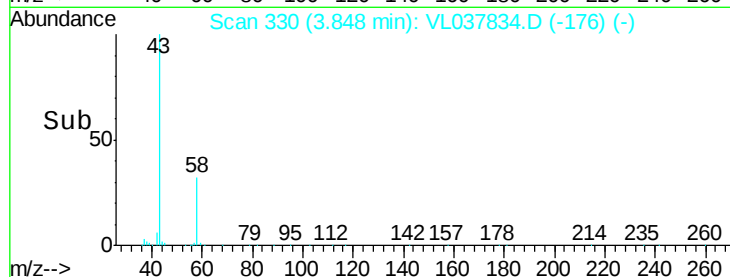
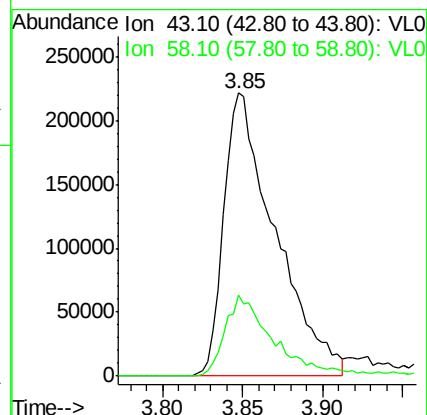
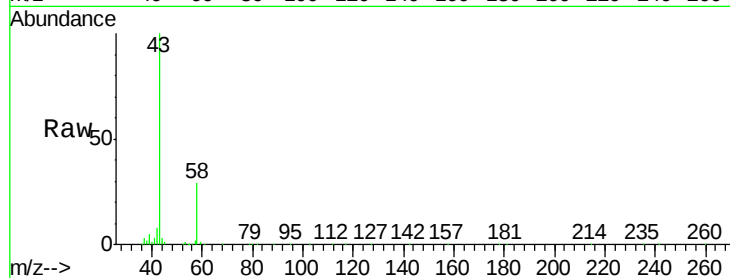
Acq: 12 Oct 2021 17:56

Tgt Ion: 43 Resp: 488941

Ion Ratio Lower Upper

43 100

58 27.4 23.0 34.6



#19

Isopropyl Alcohol

Concen: 1.261 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL037834.D

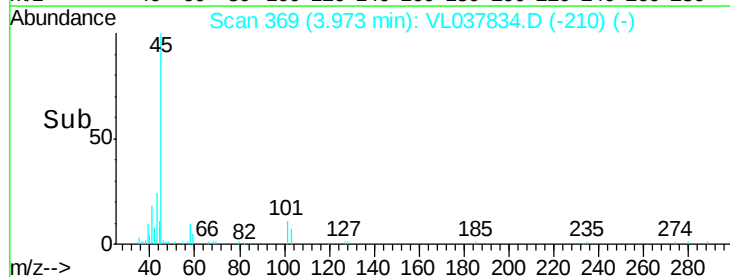
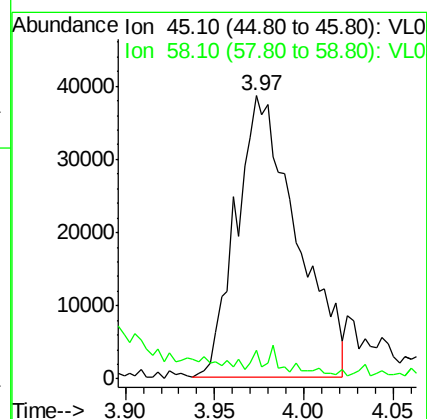
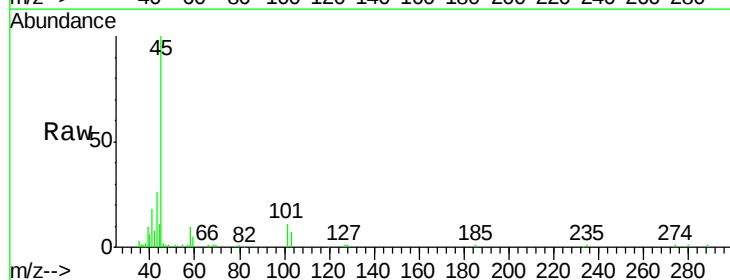
Acq: 12 Oct 2021 17:56

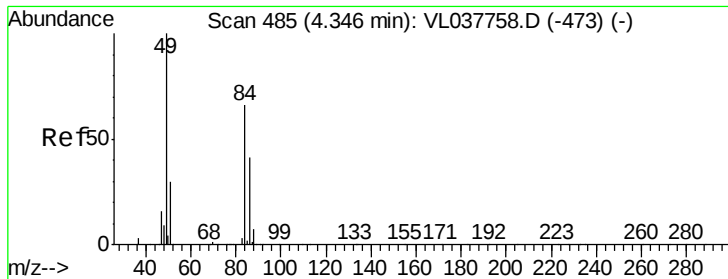
Tgt Ion: 45 Resp: 90667

Ion Ratio Lower Upper

45 100

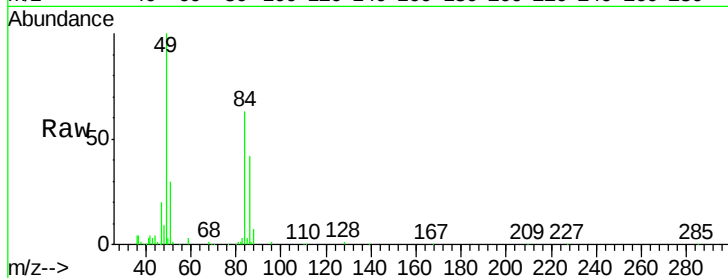
58 152.7 1.1 1.7#



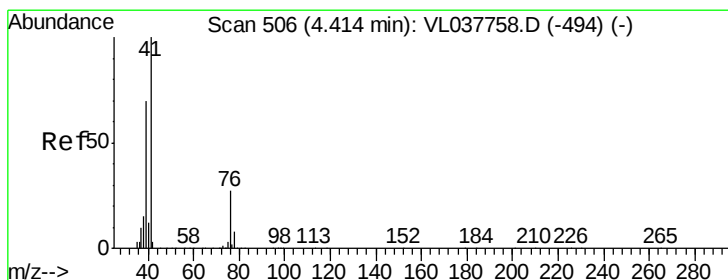
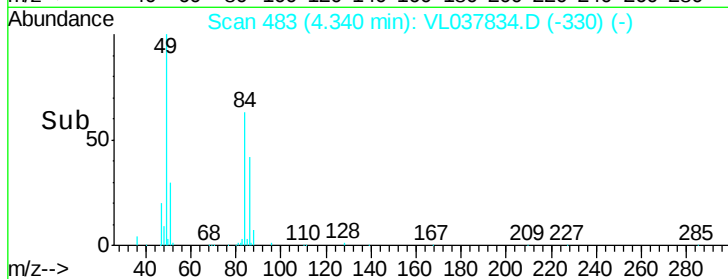
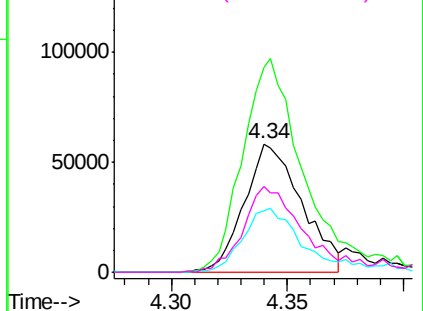


#20
Methylene Chloride
Concen: 1.720 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP04
Acq: 12 Oct 2021 17:56

Tgt Ion:	84	Resp:	100449
Ion	Ratio	Lower	Upper
84	100		
49	158.1	120.7	181.1
51	48.0	36.2	54.4
86	66.4	49.6	74.4

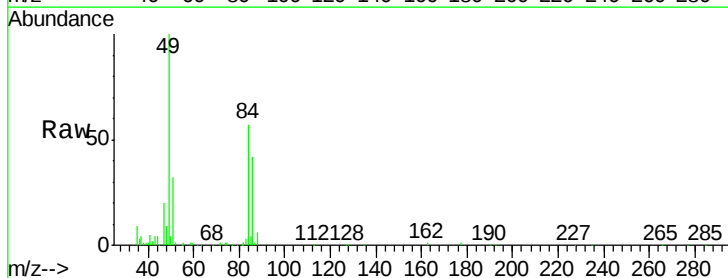


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

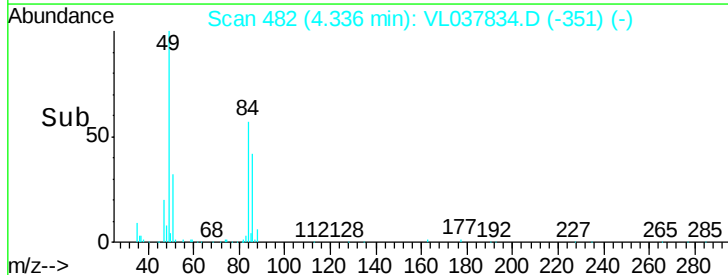
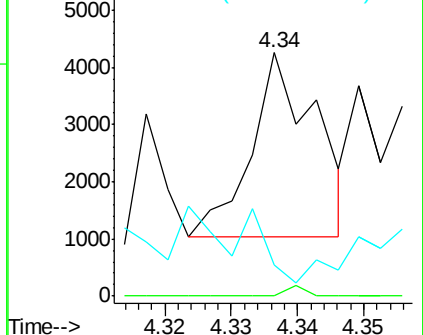


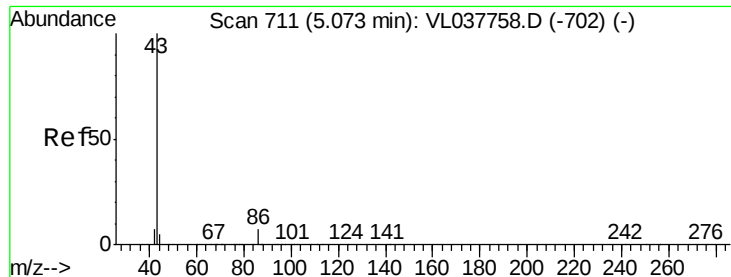
#21
Allyl Chloride
Concen: 0.021 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.08 min
Lab File: VL037834.D
Acq: 12 Oct 2021 17:56

Tgt Ion:	41	Resp:	2176
Ion	Ratio	Lower	Upper
41	100		
76	295.3	22.4	33.6#
39	101.1	58.0	87.0#



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: 0.251 ppbv

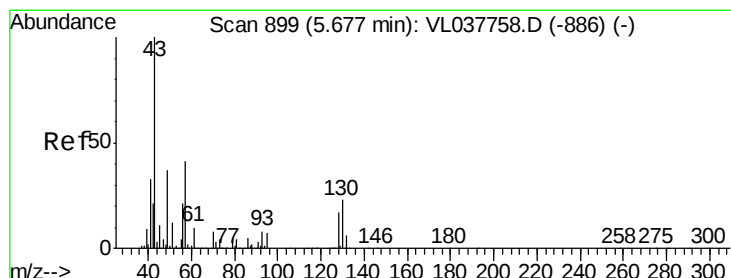
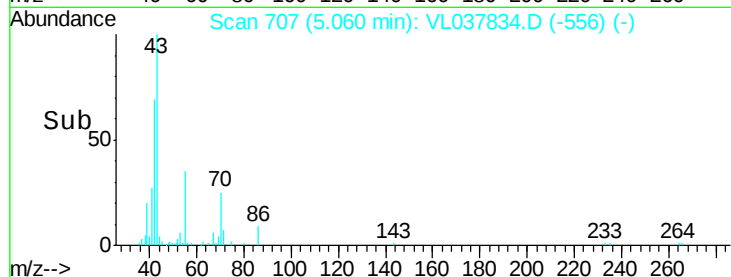
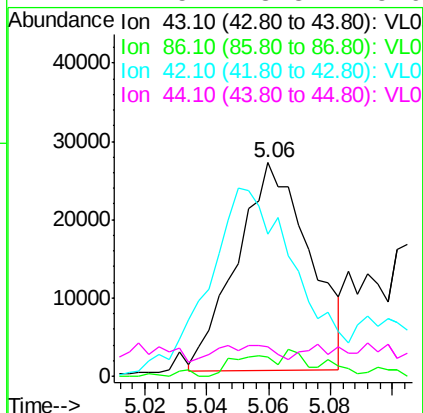
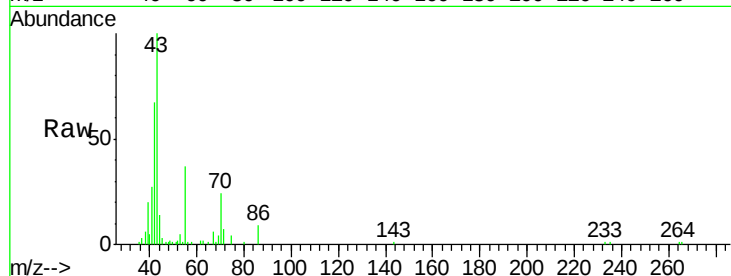
RT: 5.06 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP04

Acq: 12 Oct 2021 17:56

Tgt Ion:	43	Resp:	43461
Ion	Ratio	Lower	Upper
43	100		
86	6.2	5.0	7.4
42	48.3	7.4	11.0#
44	7.5	3.8	5.6#



#25

Ethyl Acetate

Concen: 0.318 ppbv

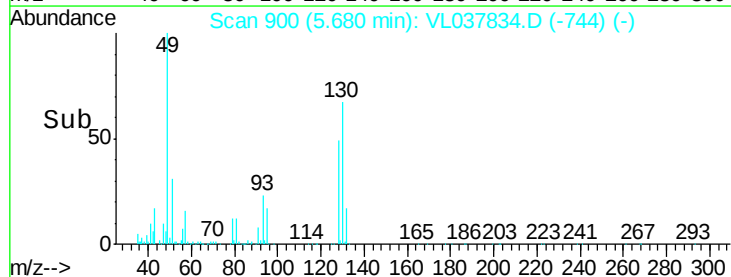
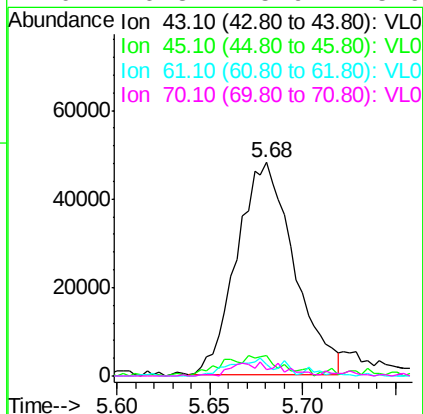
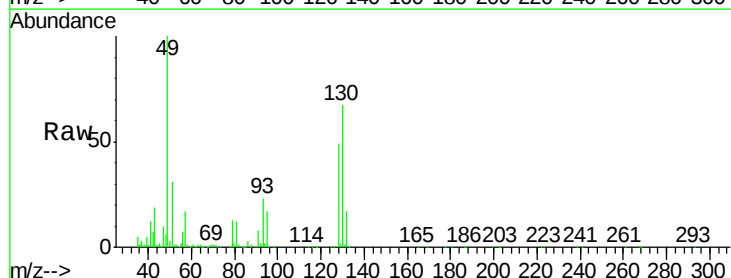
RT: 5.68 min Scan# 900

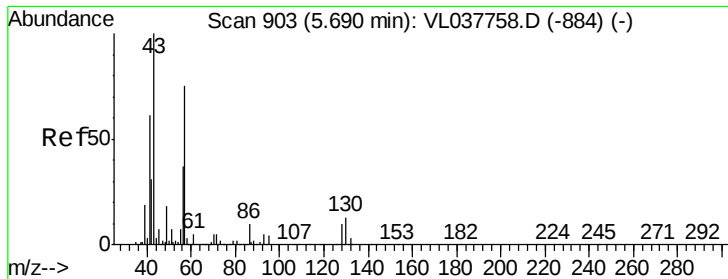
Delta R.T. 0.00 min

Lab File: VL037834.D

Acq: 12 Oct 2021 17:56

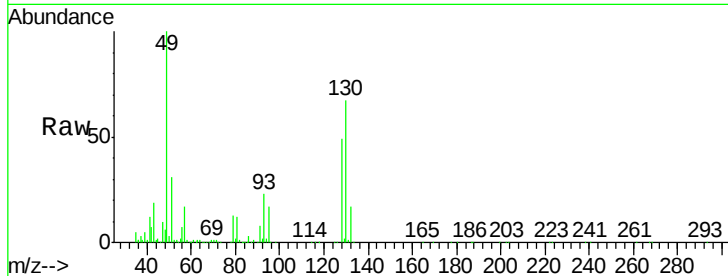
Tgt Ion:	43	Resp:	103283
Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.1	12.1
61	7.9	7.5	11.3
70	6.8	5.9	8.9



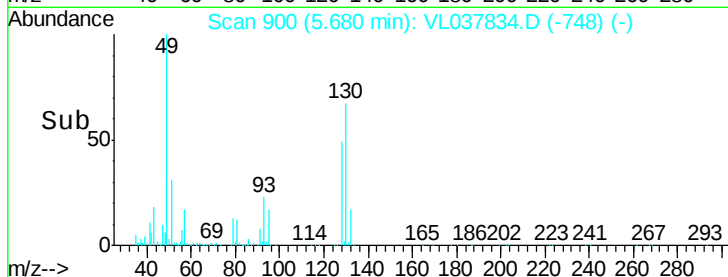
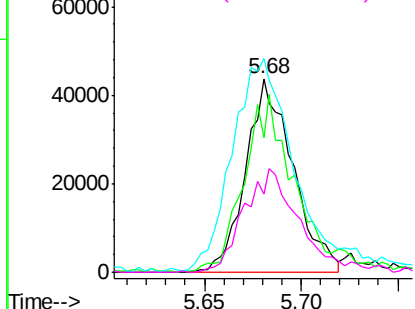


#26
Hexane
Concen: 0.463 ppbv
RT: 5.68
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 17:56

Tgt Ion:	57	Resp:	73928
Ion	Ratio	Lower	Upper
57	100		
41	105.0	69.6	104.4#
43	150.5	171.4	257.0#
56	62.5	42.0	63.0

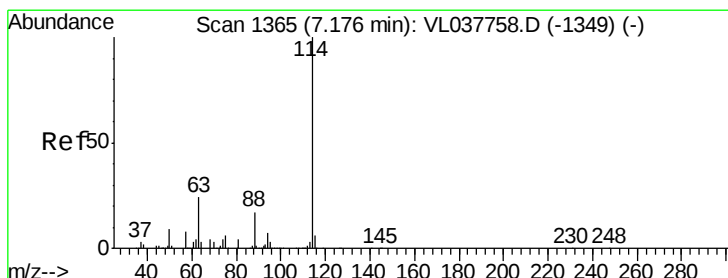


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

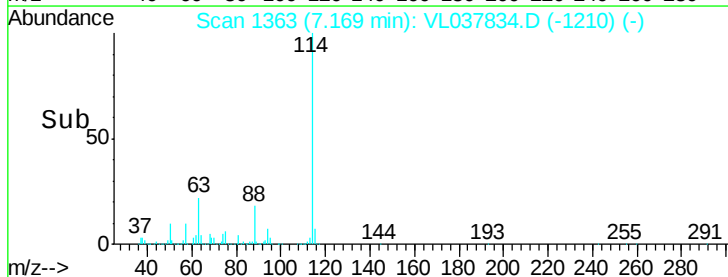
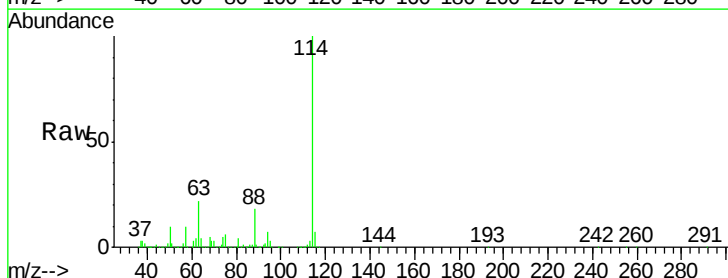
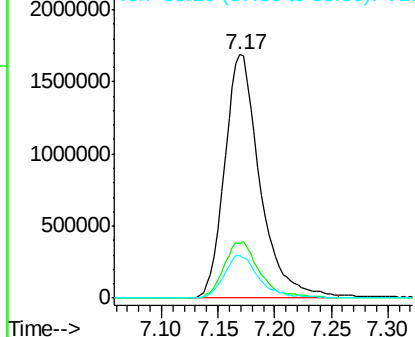


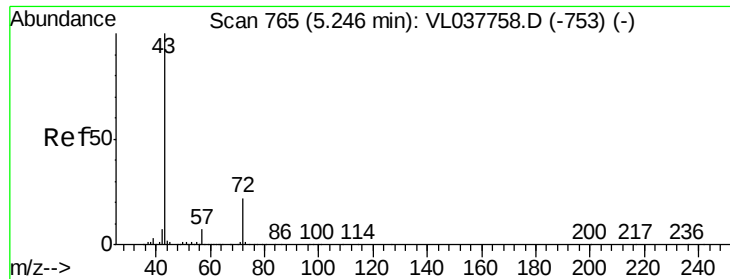
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T.: -0.01 min
Lab File: VL037834.D
Acq: 12 Oct 2021 17:56

Tgt Ion:	114	Resp:	3674797
Ion	Ratio	Lower	Upper
114	100		
63	23.9	19.4	29.2
88	17.8	14.4	21.6



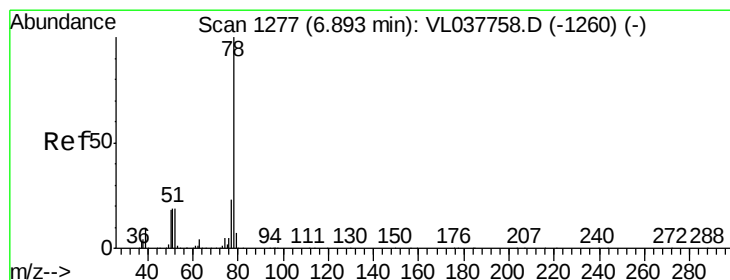
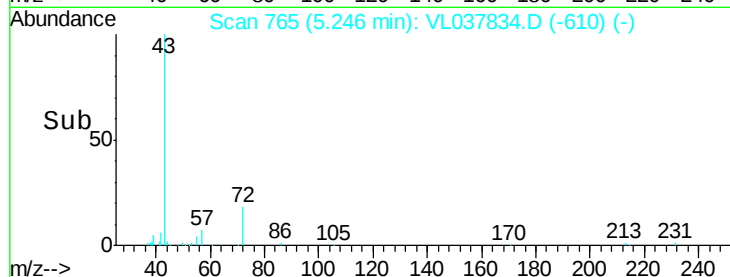
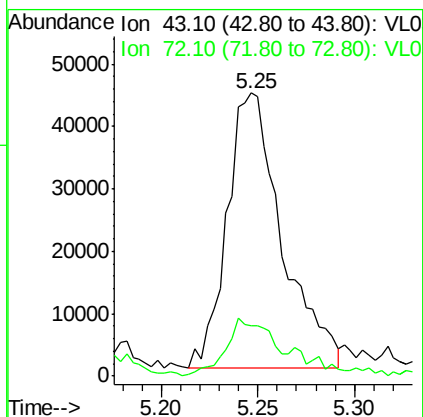
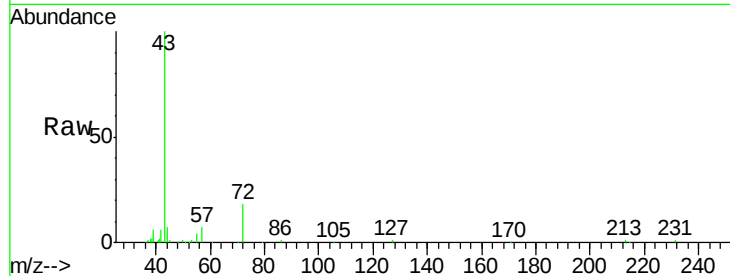
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





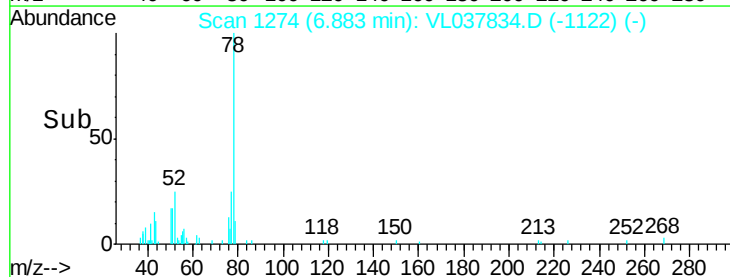
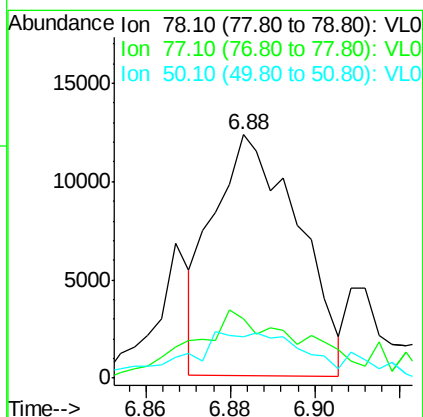
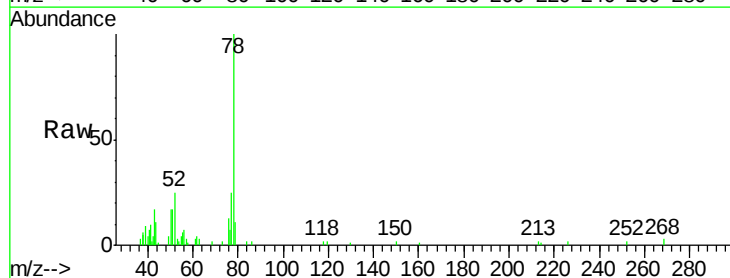
#34
 2-Butanone
 Concen: 0.588 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0P04
 Acq: 12 Oct 2021 17:58

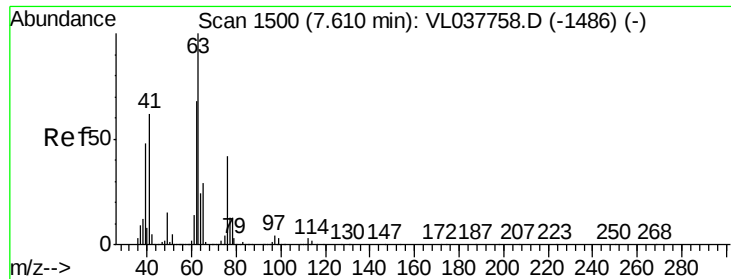
Tgt Ion: 43 Resp: 87238
 Ion Ratio Lower Upper
 43 100
 72 24.3 18.2 27.2



#36
 Benzene
 Concen: 0.055 ppbv
 RT: 6.88 min Scan# 1274
 Delta R.T. -0.01 min
 Lab File: VL037834.D
 Acq: 12 Oct 2021 17:56

Tgt Ion: 78 Resp: 17163
 Ion Ratio Lower Upper
 78 100
 77 15.7 18.8 28.2#
 50 15.8 14.7 22.1





#39

1,2-Dichloropropane

Concen: 7.258 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 17:56 C0P04

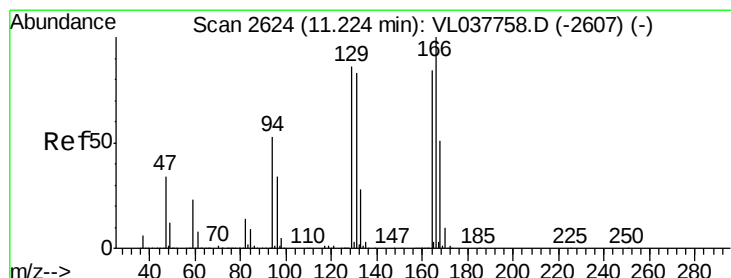
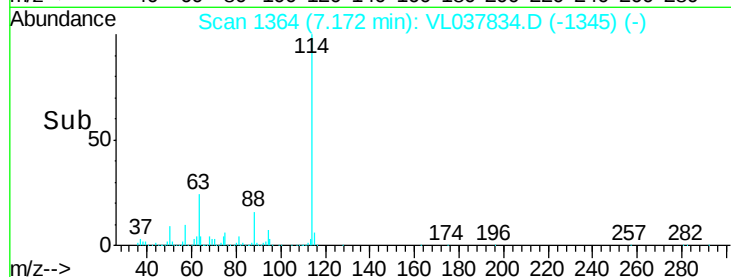
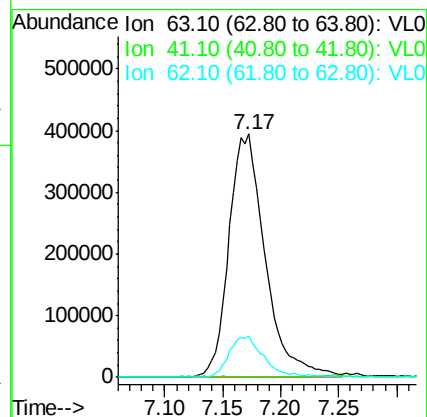
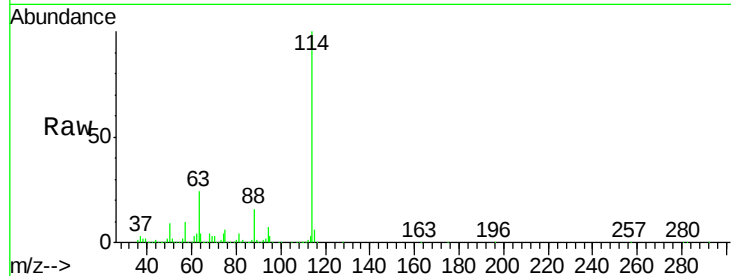
Tgt Ion: 63 Resp: 856925

Ion Ratio Lower Upper

63 100

41 0.0 49.8 74.6#

62 17.0 54.6 82.0#



#52

Tetrachloroethene

Concen: 1.874 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.01 min

Lab File: VL037834.D

Acq: 12 Oct 2021 17:56

Tgt Ion: 164 Resp: 228837

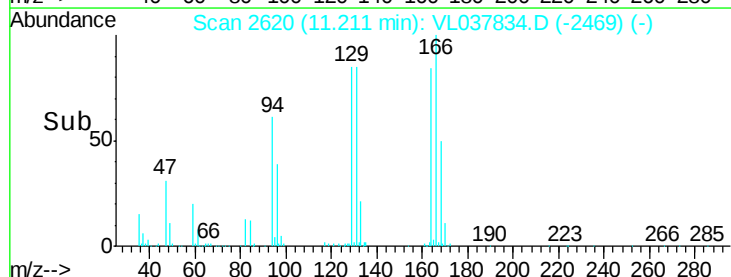
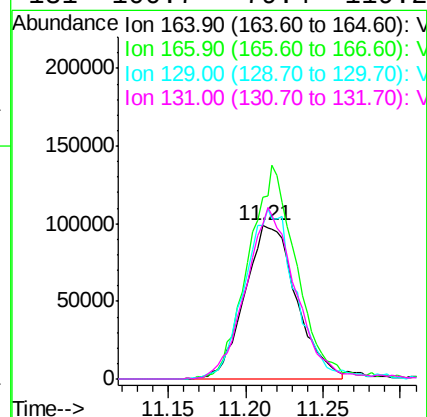
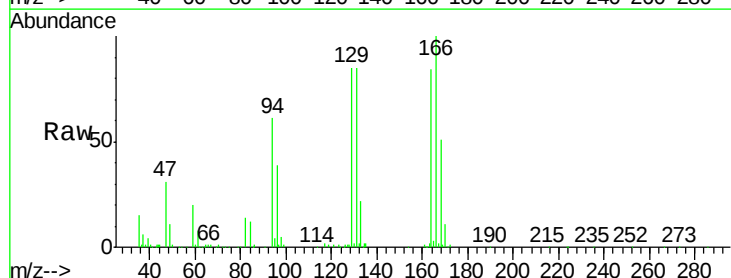
Ion Ratio Lower Upper

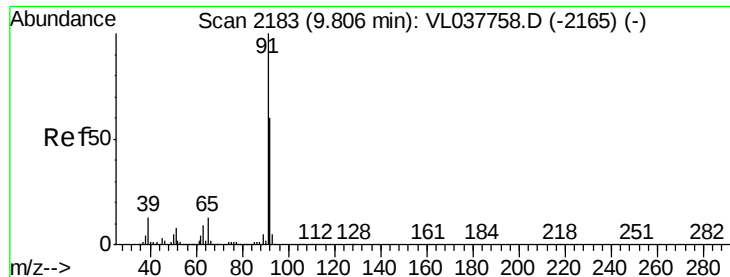
164 100

166 118.7 95.4 143.2

129 99.6 82.2 123.4

131 100.7 79.4 119.2





#53

Toluene

Concen: 0.726 ppbv

RT: 9.80 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P04

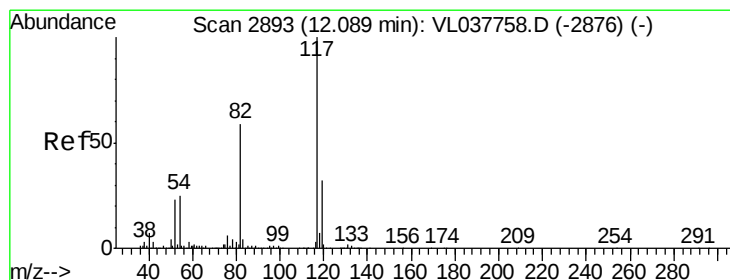
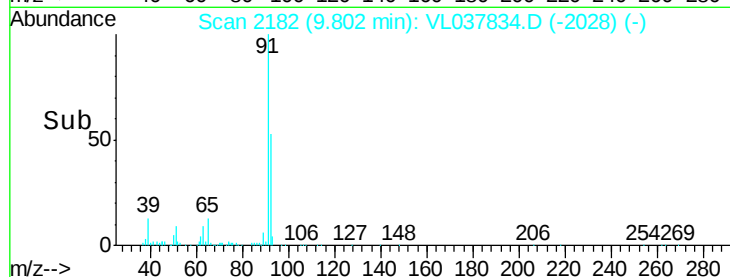
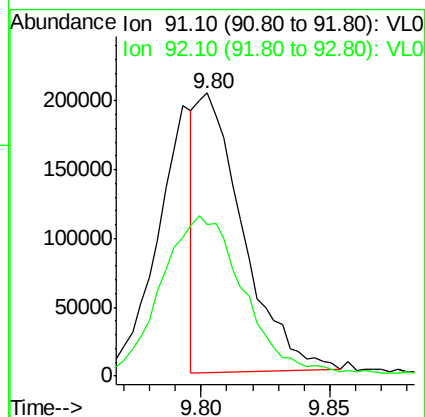
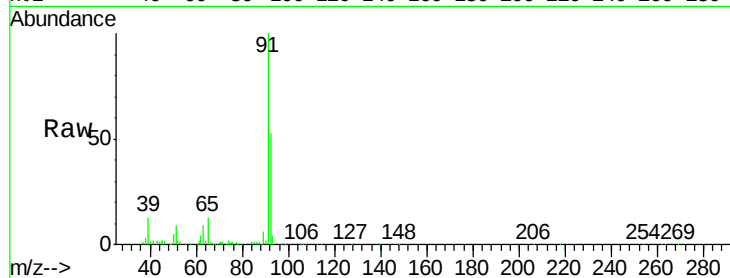
Acq: 12 Oct 2021 17:56

Tgt Ion: 91 Resp: 252448

Ion Ratio Lower Upper

91 100

92 105.5 48.4 72.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL037834.D

Acq: 12 Oct 2021 17:56

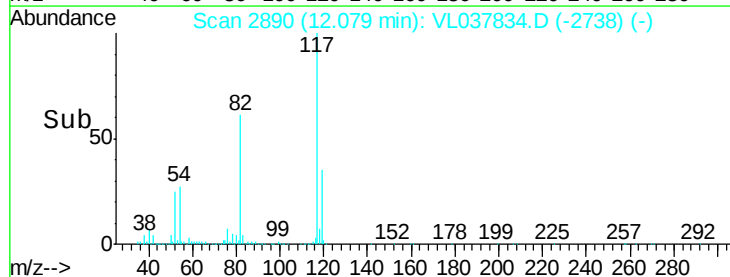
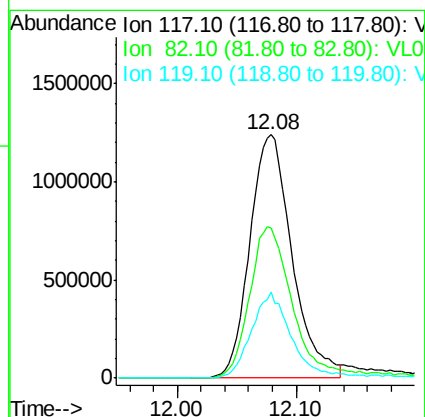
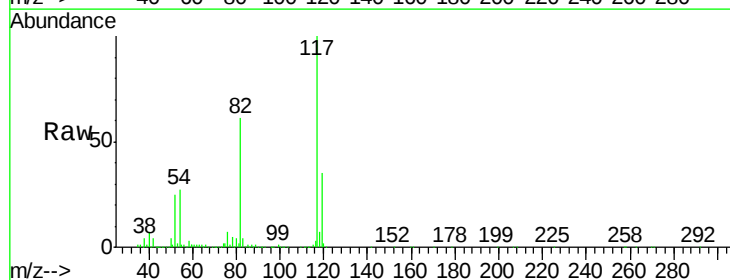
Tgt Ion: 117 Resp: 3049145

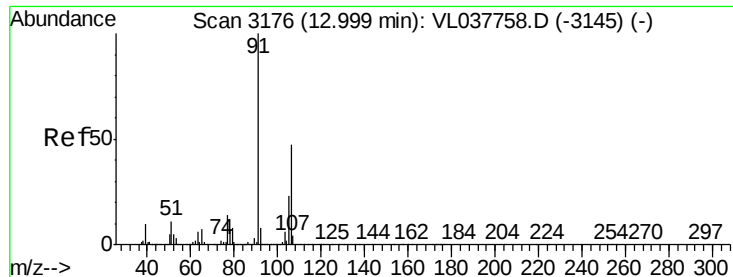
Ion Ratio Lower Upper

117 100

82 66.3 52.2 78.2

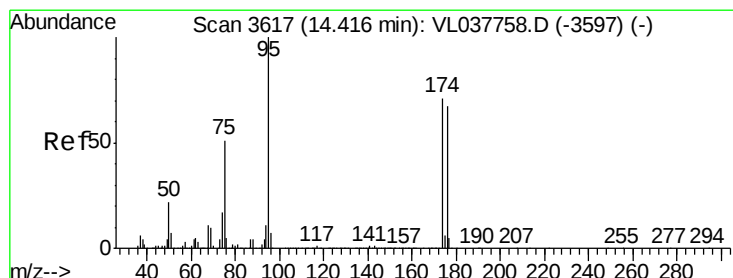
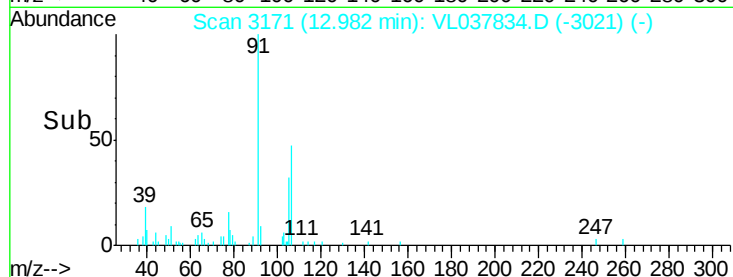
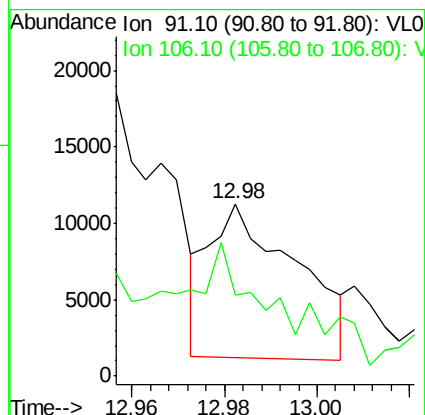
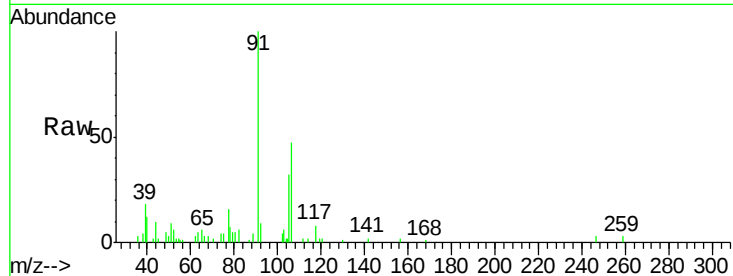
119 35.4 26.0 39.0





#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 12.98
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 17:56

Tgt Ion: 91 Resp: 13174
Ion Ratio Lower Upper
91 100
106 192.8 36.7 55.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.979 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. -0.01 min
Lab File: VL037834.D
Acq: 12 Oct 2021 17:56

Tgt Ion: 95 Resp: 2127812
Ion Ratio Lower Upper
95 100
174 76.2 57.8 86.6
175 5.5 4.7 7.1

