

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
 Data File : VL037837.D
 Acq On : 12 Oct 2021 19:53
 Operator : SY/AP
 Sample : M4079-06DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P48DL

Quant Time: Oct 14 01:06:11 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	1327546	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3888626	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3279339	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2313097	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

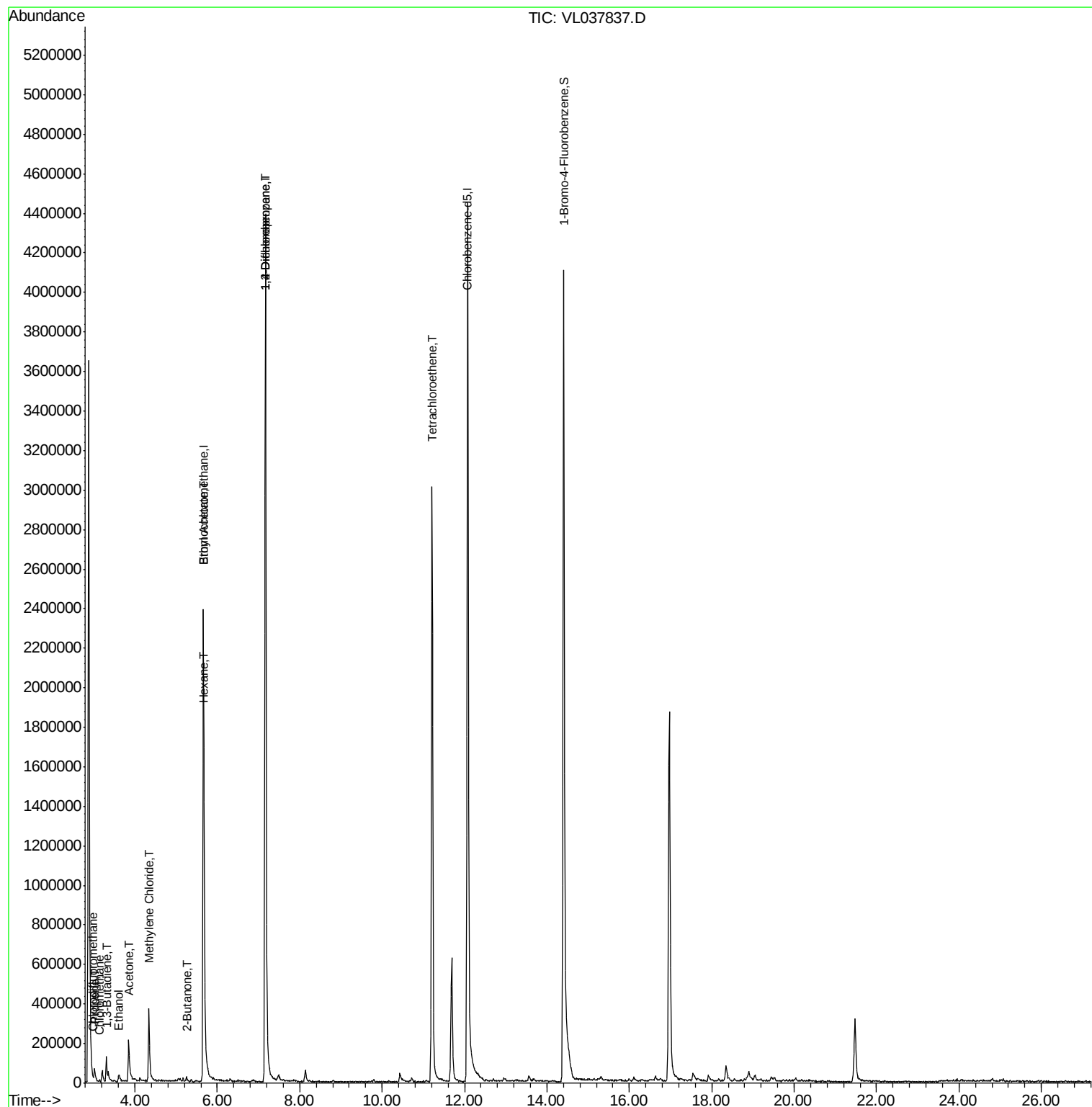
Target Compounds					Qvalue
3) Chlorodifluoromethane	2.99	51	9991	0.039 ppbv	99
4) Chloromethane	3.14	50	3780	0.040 ppbv	99
9) Propene	3.02	41	21934	0.234 ppbv	94
13) Ethanol	3.61	45	16943	2.207 ppbv #	34
15) Acetone	3.85	43	275164	2.309 ppbv	99
16) 1,3-Butadiene	3.33	39	2454	0.028 ppbv #	11
20) Methylene Chloride	4.34	84	136830	2.272 ppbv	97
25) Ethyl Acetate	5.67	43	9755	0.029 ppbv #	83
26) Hexane	5.68	57	83731	0.508 ppbv #	43
34) 2-Butanone	5.25	43	29259	0.186 ppbv #	83
39) 1,2-Dichloropropane	7.17	63	904957	7.244 ppbv #	28
52) Tetrachloroethene	11.21	164	421106	3.259 ppbv	95

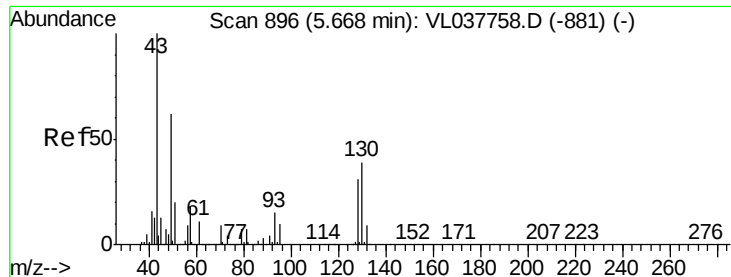
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 04 17:43:54 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 19:53

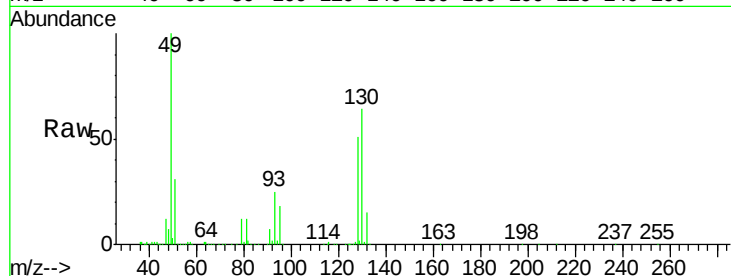
Tgt Ion: 49 Resp: 1327546

Ion Ratio Lower Upper

49 100

128 54.5 27.1 81.3

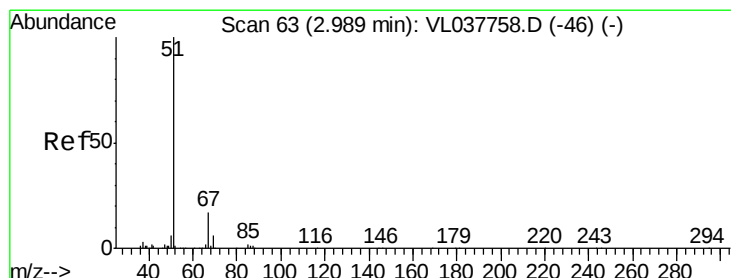
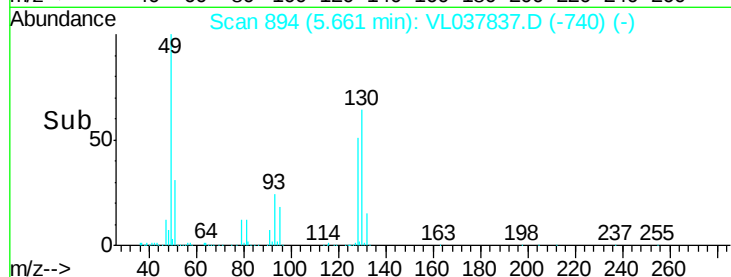
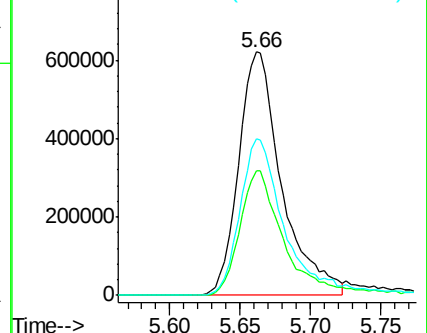
130 69.9 33.2 99.6



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: 0.039 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL037837.D

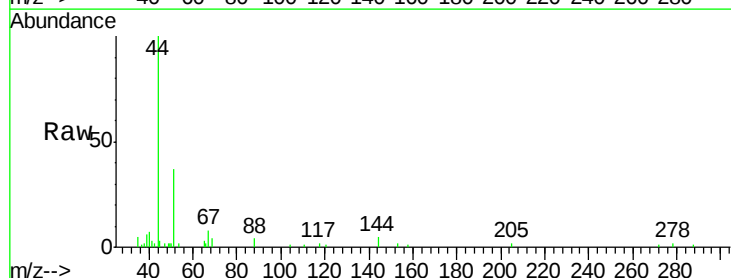
Acq: 12 Oct 2021 19:53

Tgt Ion: 51 Resp: 9991

Ion Ratio Lower Upper

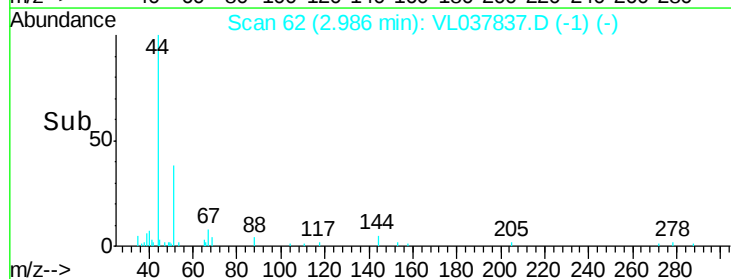
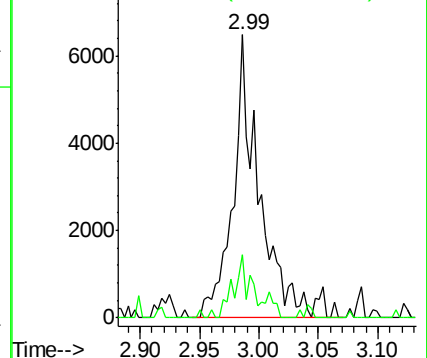
51 100

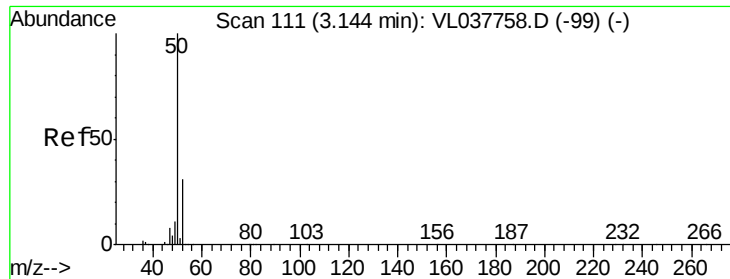
67 17.5 13.5 20.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.040 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

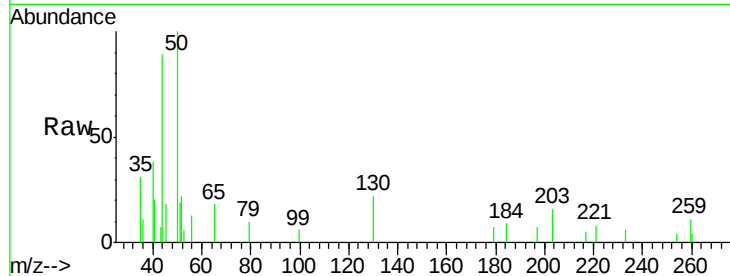
Acq: 12 Oct 2021 19:53

Tgt Ion: 50 Resp: 3780

Ion Ratio Lower Upper

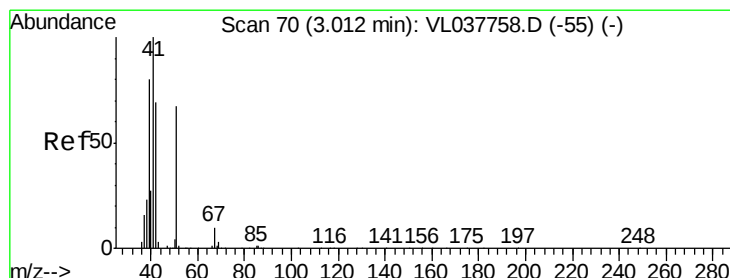
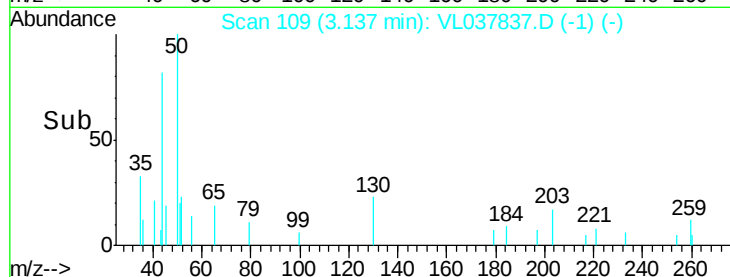
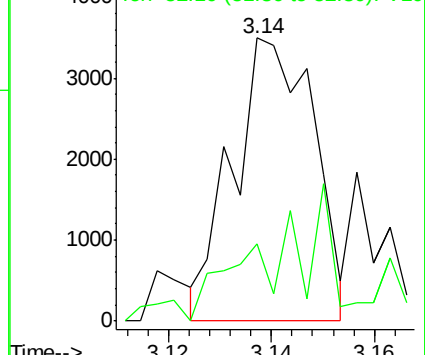
50 100

52 31.3 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: 0.234 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL037837.D

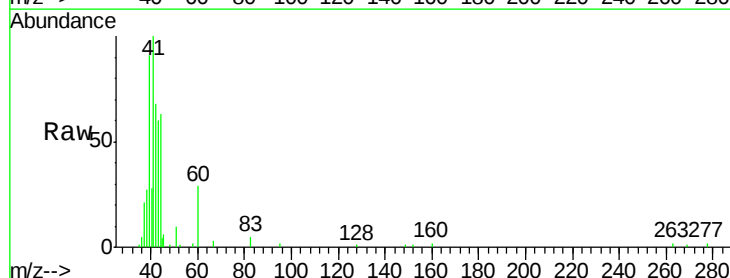
Acq: 12 Oct 2021 19:53

Tgt Ion: 41 Resp: 21934

Ion Ratio Lower Upper

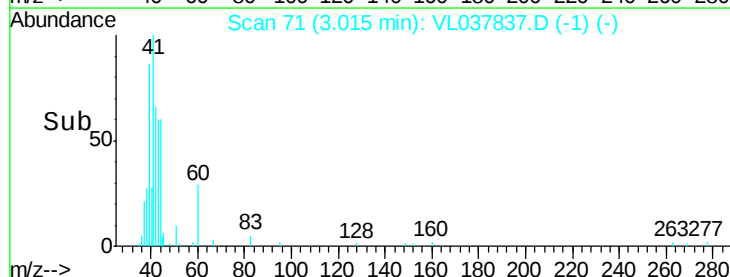
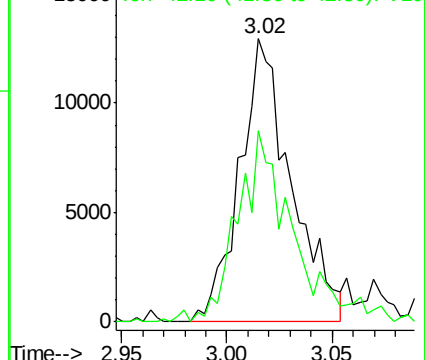
41 100

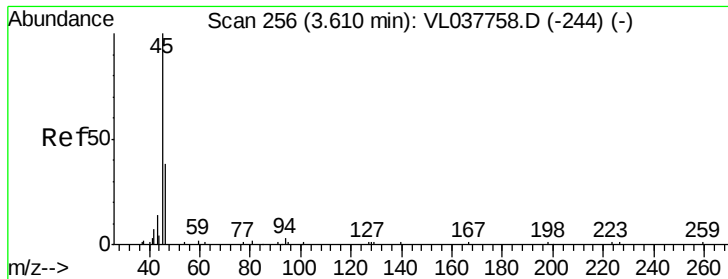
42 72.7 54.2 81.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

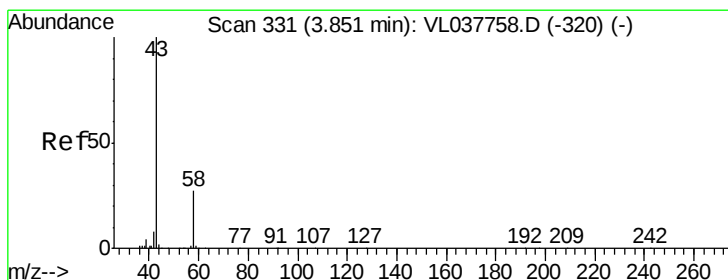
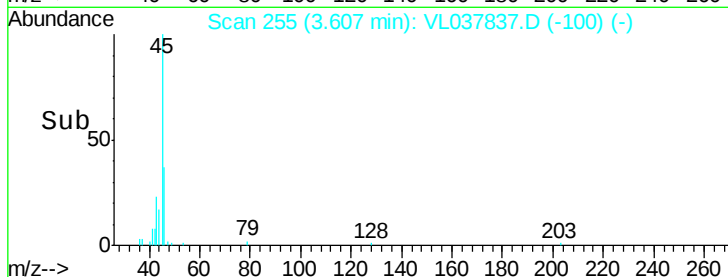
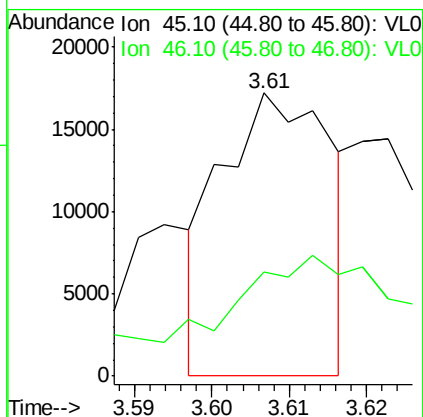
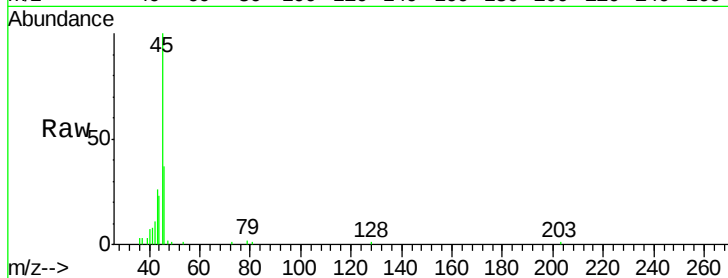
Ion 42.10 (41.80 to 42.80): VL0





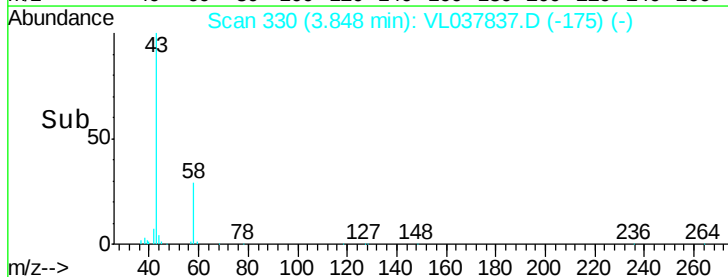
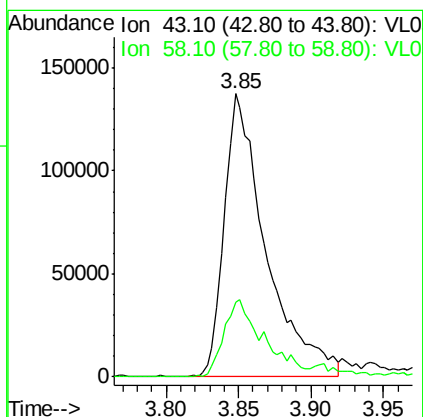
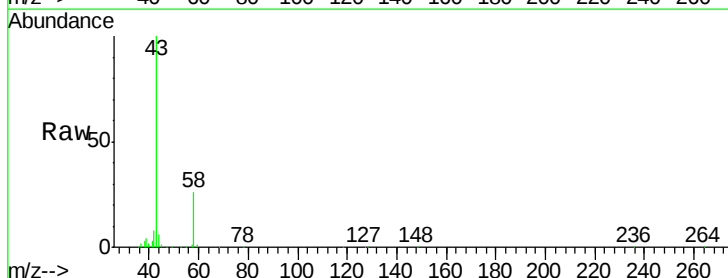
#13
Ethanol
Concen: 2.207 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP48DL
Acq: 12 Oct 2021 19:55

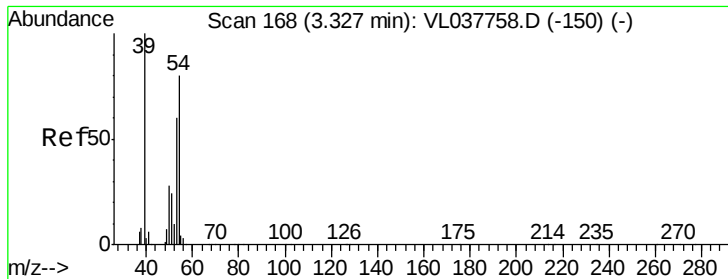
Tgt Ion: 45 Resp: 16943
Ion Ratio Lower Upper
45 100
46 96.0 20.2 81.0#



#15
Acetone
Concen: 2.309 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL037837.D
Acq: 12 Oct 2021 19:53

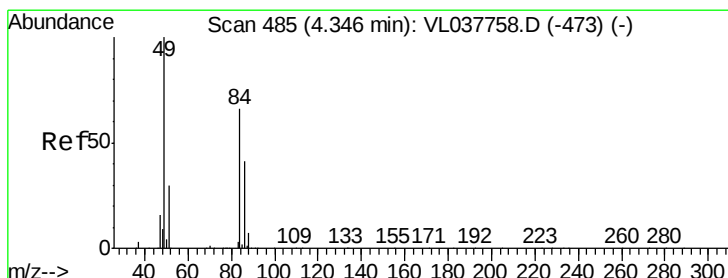
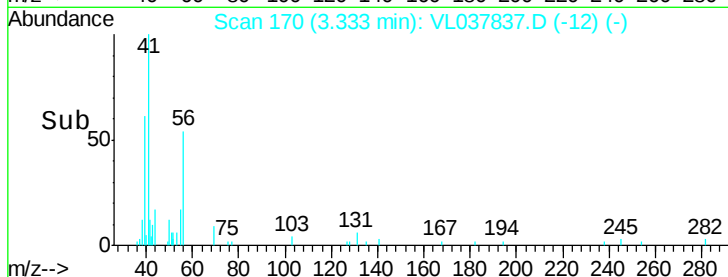
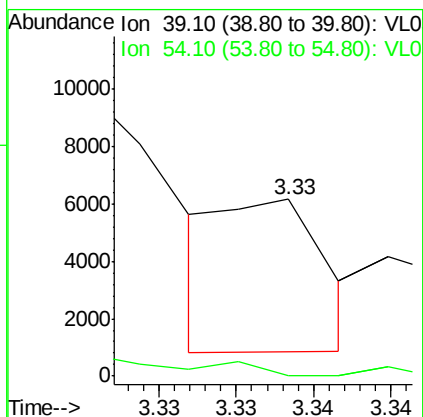
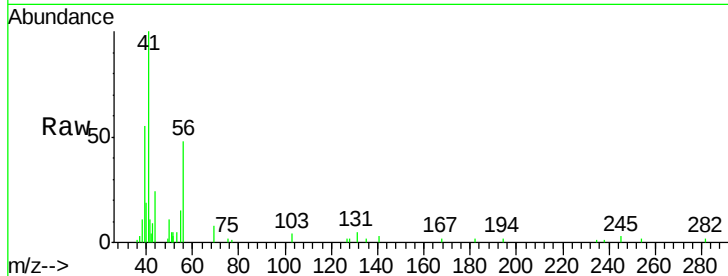
Tgt Ion: 43 Resp: 275164
Ion Ratio Lower Upper
43 100
58 29.4 23.0 34.6





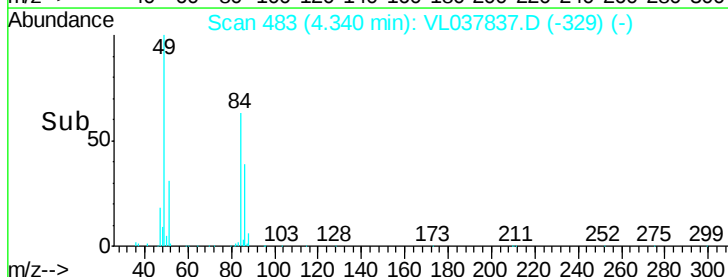
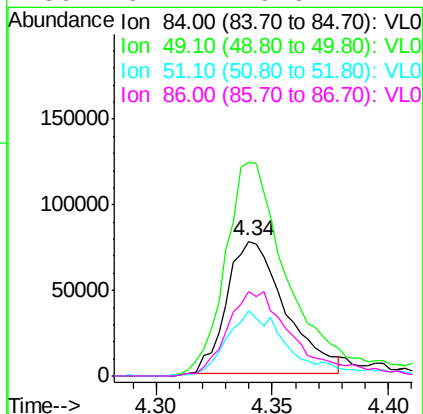
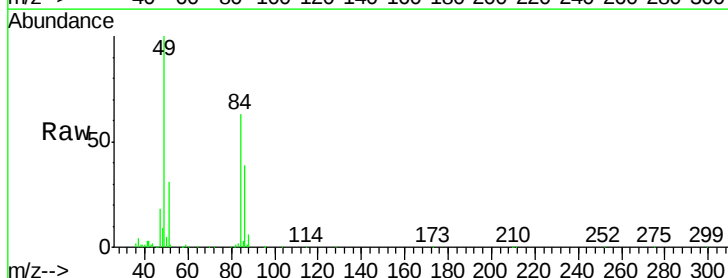
#16
 1,3-Butadiene
 Concen: 0.028 ppbv
 RT: 3.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 19:53

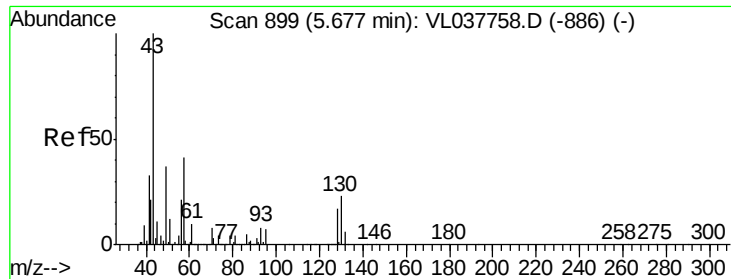
Tgt Ion: 39 Resp: 2454
 Ion Ratio Lower Upper
 39 100
 54 0.0 61.7 92.5#



#20
 Methylene Chloride
 Concen: 2.272 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.01 min
 Lab File: VL037837.D
 Acq: 12 Oct 2021 19:53

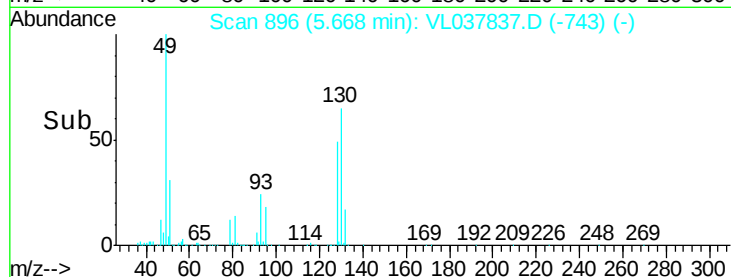
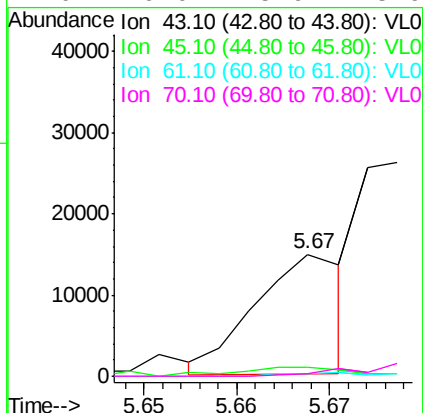
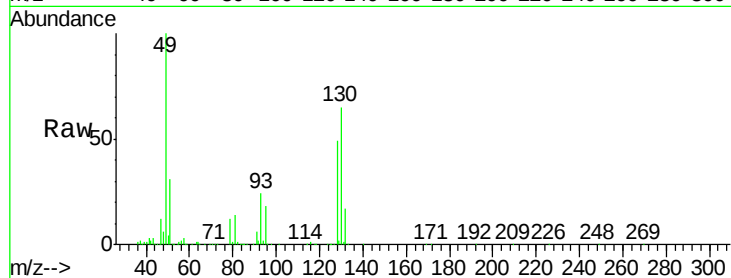
Tgt Ion: 84 Resp: 136830
 Ion Ratio Lower Upper
 84 100
 49 155.8 120.7 181.1
 51 47.7 36.2 54.4
 86 61.1 49.6 74.4





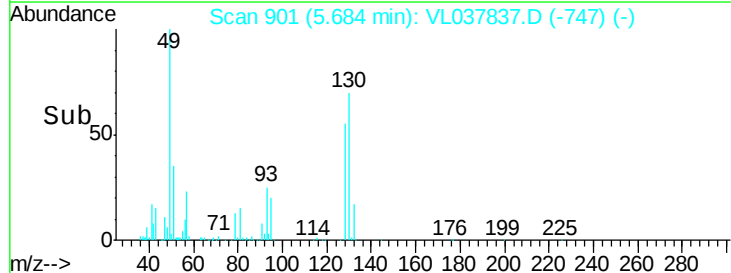
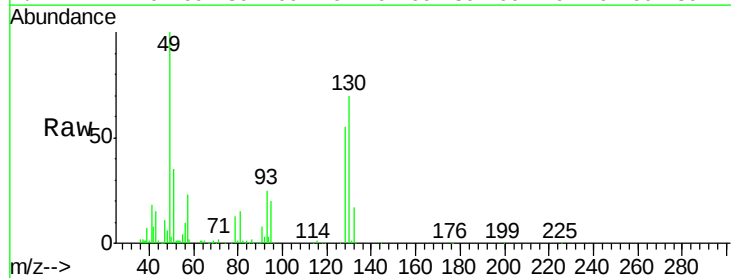
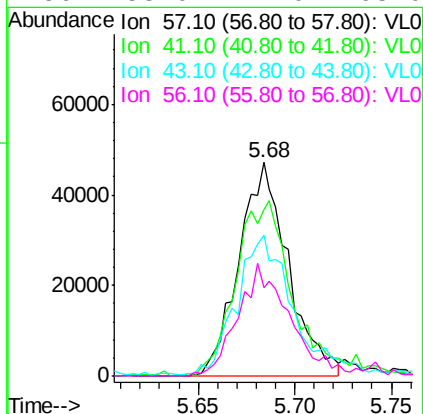
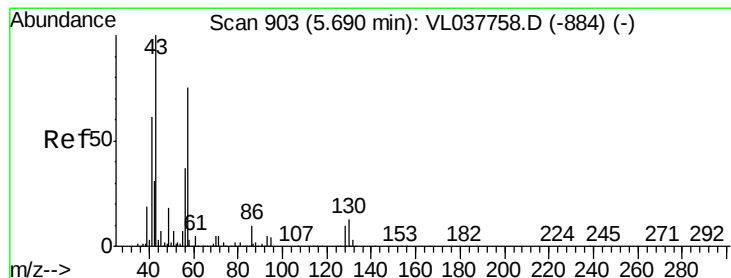
#25
Ethyl Acetate
Concen: 0.029 ppbv
RT: 5.67
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : COP48DL
Acq: 12 Oct 2021 19:53

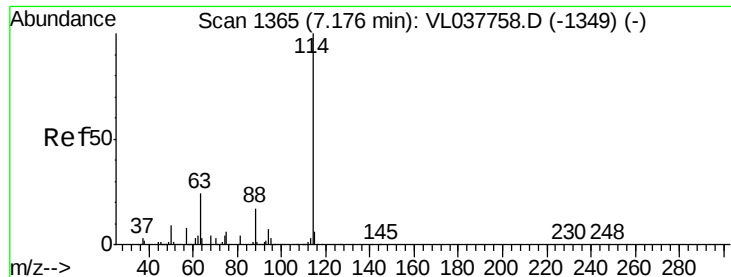
Tgt Ion:	43	Resp:	9755
Ion	Ratio	Lower	Upper
43	100		
45	12.5	8.1	12.1#
61	0.0	7.5	11.3#
70	0.0	5.9	8.9#



#26
Hexane
Concen: 0.508 ppbv
RT: 5.68 min Scan# 901
Delta R.T.: -0.01 min
Lab File: VL037837.D
Acq: 12 Oct 2021 19:53

Tgt Ion:	57	Resp:	83731
Ion	Ratio	Lower	Upper
57	100		
41	96.7	69.6	104.4
43	75.9	171.4	257.0#
56	58.0	42.0	63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 19:55 C0P48DL

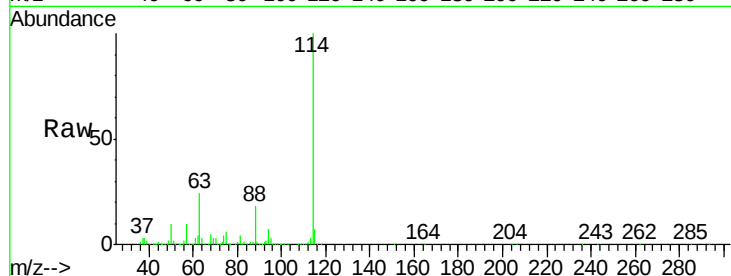
Tgt Ion: 114 Resp: 3888626

Ion Ratio Lower Upper

114 100

63 24.1 19.4 29.2

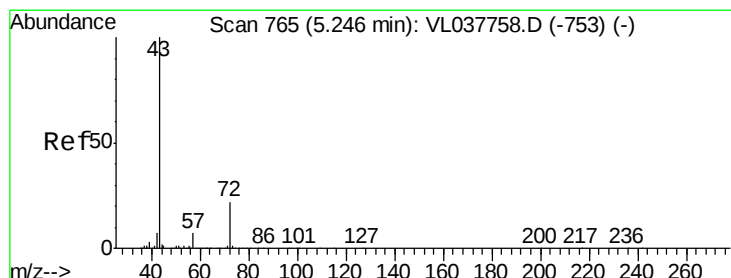
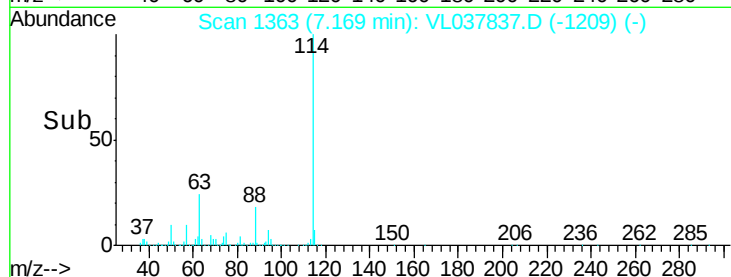
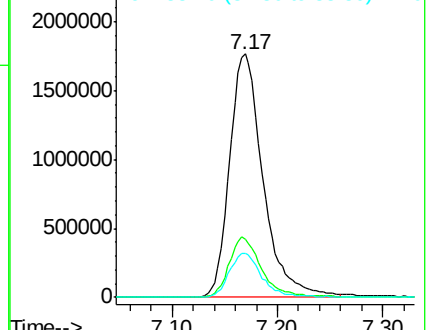
88 17.8 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.186 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.00 min

Lab File: VL037837.D

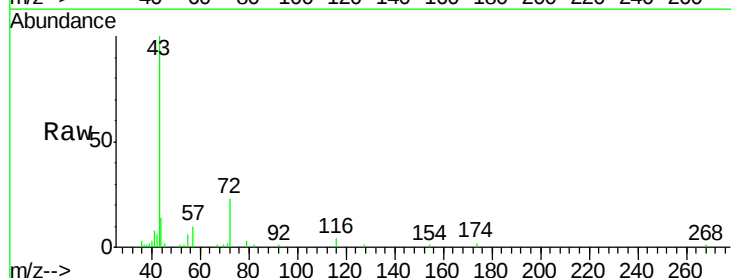
Acq: 12 Oct 2021 19:53

Tgt Ion: 43 Resp: 29259

Ion Ratio Lower Upper

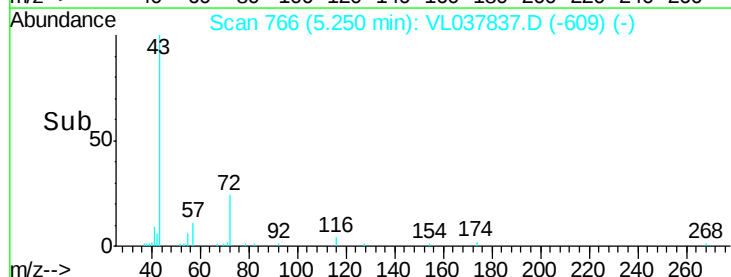
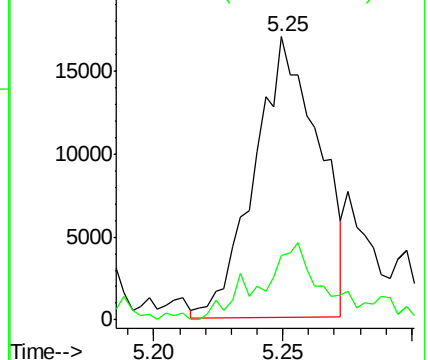
43 100

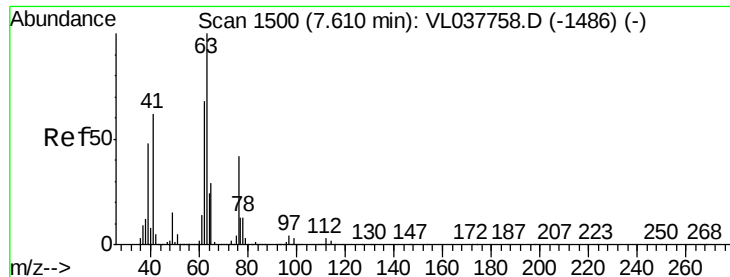
72 31.0 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.244 ppbv

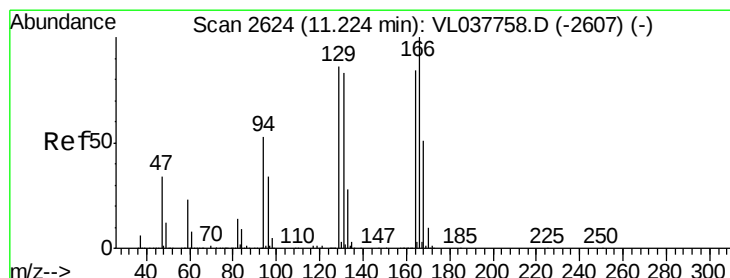
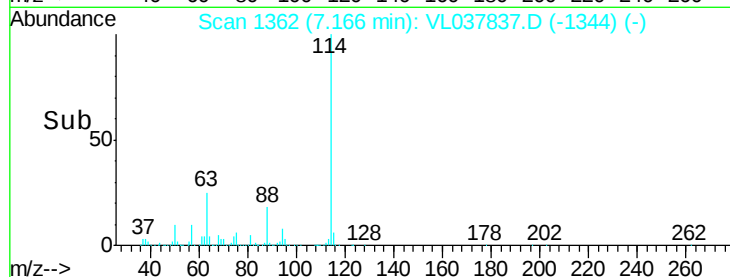
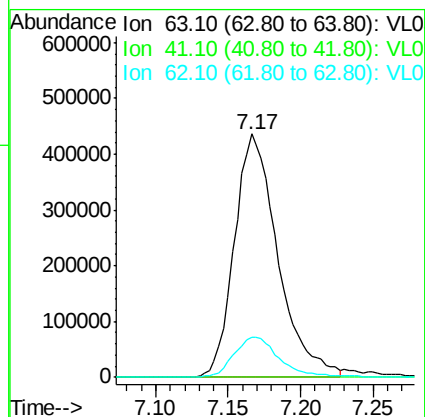
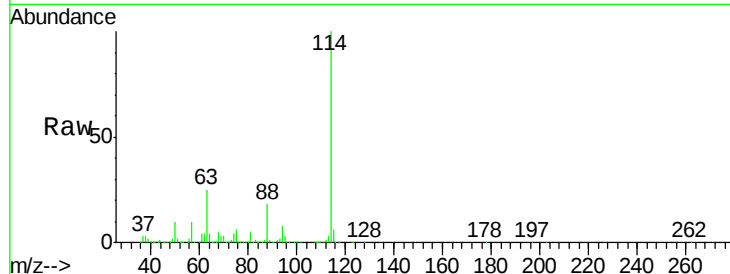
RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 19:55 COP48DL

Tgt Ion:	63	Resp:	904957
Ion Ratio	Lower	Upper	
63	100		
41	0.1	49.8	74.6#
62	16.2	54.6	82.0#



#52

Tetrachloroethene

Concen: 3.259 ppbv

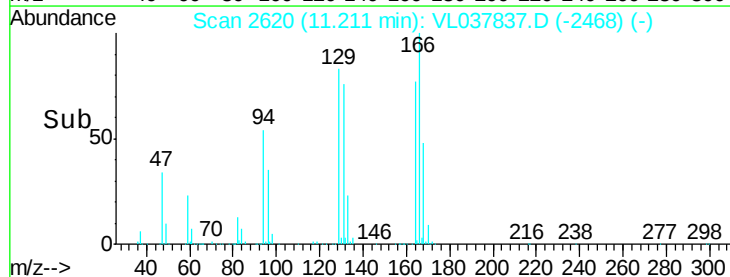
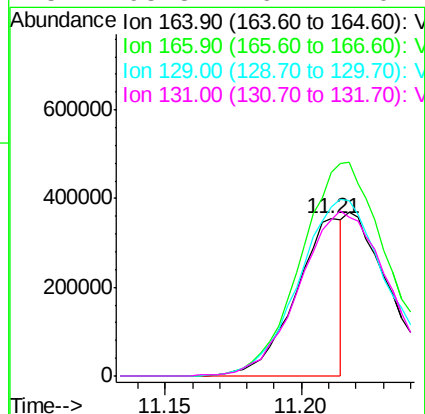
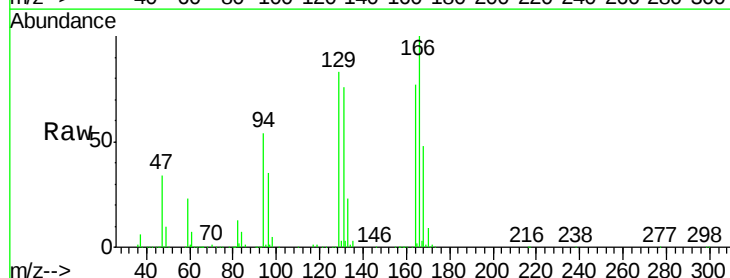
RT: 11.21 min Scan# 2620

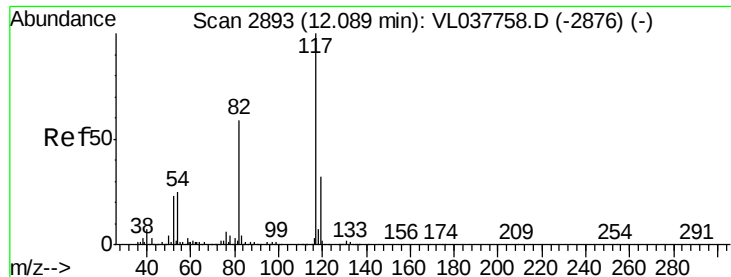
Delta R.T. -0.01 min

Lab File: VL037837.D

Acq: 12 Oct 2021 19:53

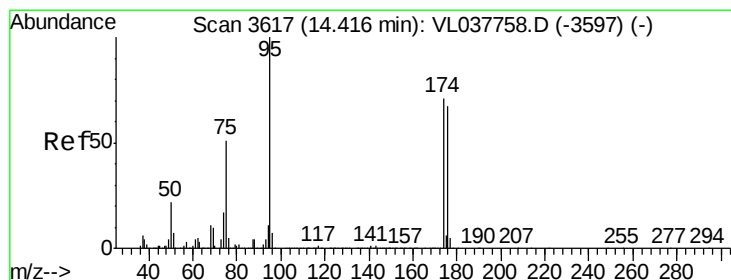
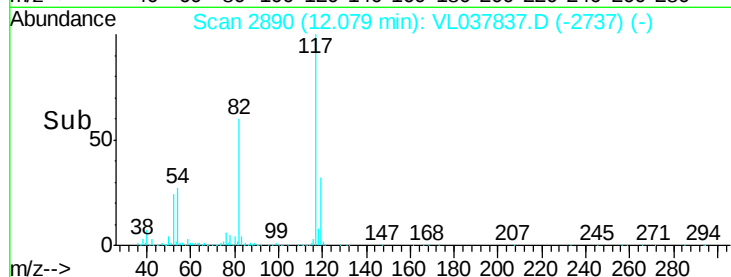
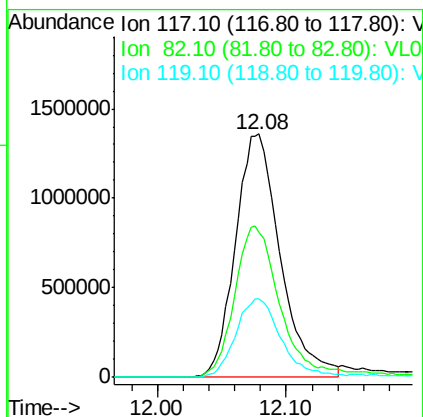
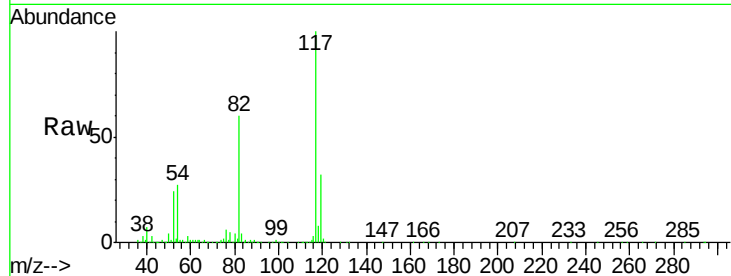
Tgt Ion:	164	Resp:	421106
Ion Ratio	Lower	Upper	
164	100		
166	129.6	95.4	143.2
129	107.1	82.2	123.4
131	98.8	79.4	119.2





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 19:53

Tgt Ion: 117 Resp: 3279339
 Ion Ratio Lower Upper
 117 100
 82 64.9 52.2 78.2
 119 34.1 26.0 39.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.087 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. -0.01 min
 Lab File: VL037837.D
 Acq: 12 Oct 2021 19:53

Tgt Ion: 95 Resp: 2313097
 Ion Ratio Lower Upper
 95 100
 174 75.4 57.8 86.6
 175 5.5 4.7 7.1

