

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
 Data File : VL037841.D
 Acq On : 12 Oct 2021 22:30
 Operator : SY/AP
 Sample : M4079-09DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P14DL

Quant Time: Oct 14 01:06:55 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	1331794	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3817054	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3226108	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2283080	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

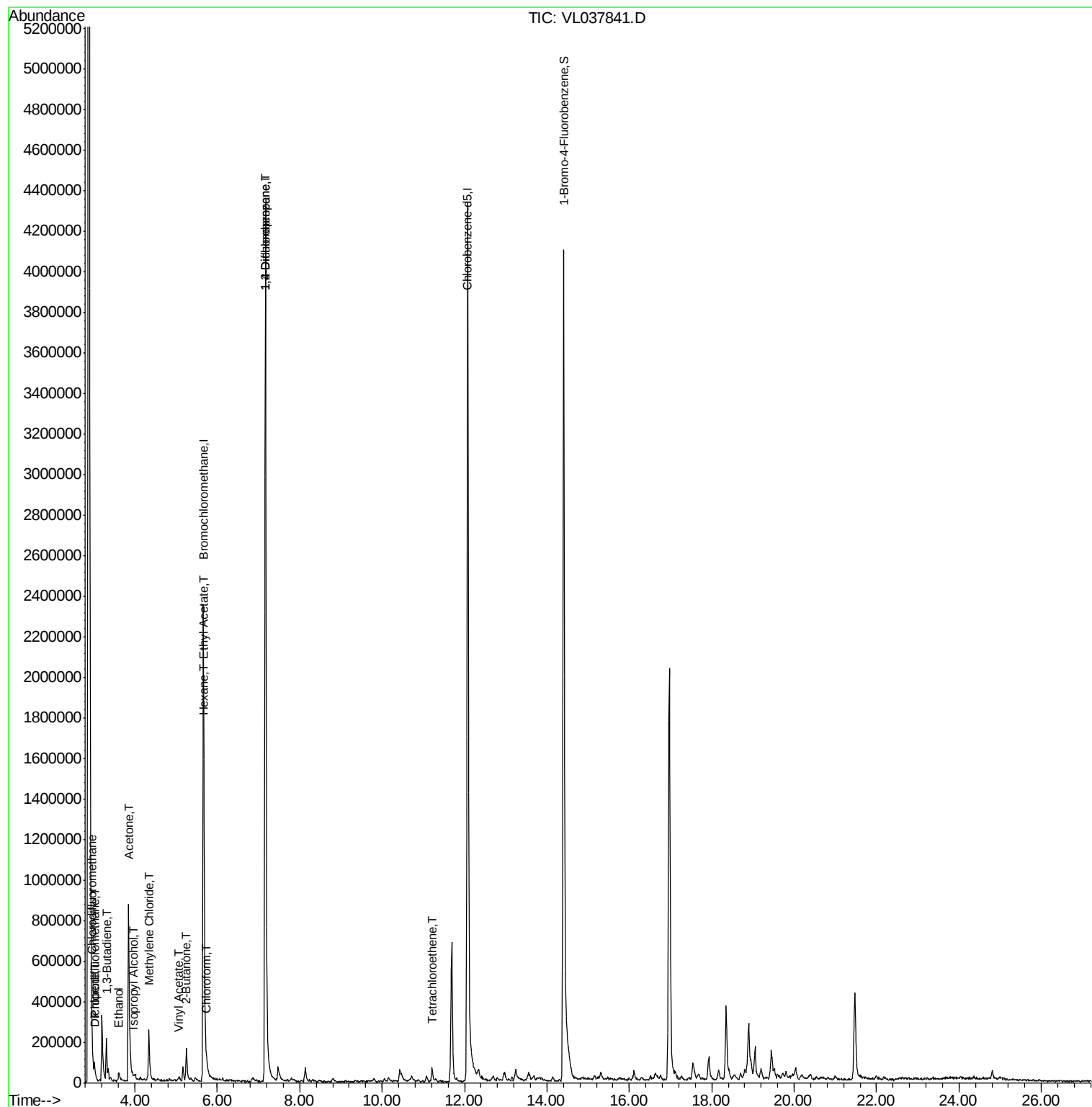
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	10138	0.048	ppbv #	85
3) Chlorodifluoromethane	2.96	51	12622	0.049	ppbv #	62
9) Propene	3.01	41	26503	0.281	ppbv	90
13) Ethanol	3.61	45	34818	4.522	ppbv #	27
15) Acetone	3.84	43	1115021	9.326	ppbv	93
16) 1,3-Butadiene	3.31	39	60237	0.692	ppbv #	18
19) Isopropyl Alcohol	3.97	45	2211	0.030	ppbv #	96
20) Methylene Chloride	4.34	84	92581	1.533	ppbv	97
23) Vinyl Acetate	5.06	43	11974	0.067	ppbv #	90
25) Ethyl Acetate	5.68	43	59038	0.176	ppbv #	89
26) Hexane	5.68	57	61625	0.373	ppbv #	53
29) Chloroform	5.75	83	7179	0.030	ppbv #	66
34) 2-Butanone	5.25	43	234850	1.524	ppbv	99
39) 1,2-Dichloropropane	7.17	63	890844	7.264	ppbv #	28
52) Tetrachloroethene	11.21	164	5538	0.044	ppbv #	55

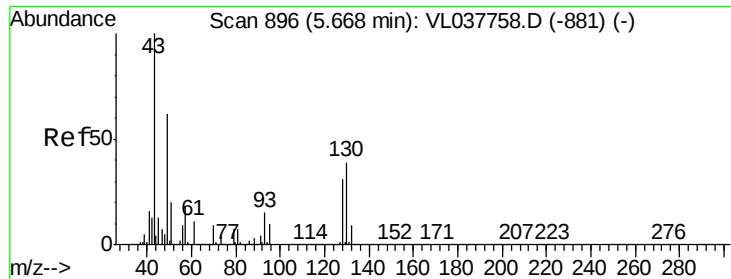
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: COP14DL

Acq: 12 Oct 2021 22:30

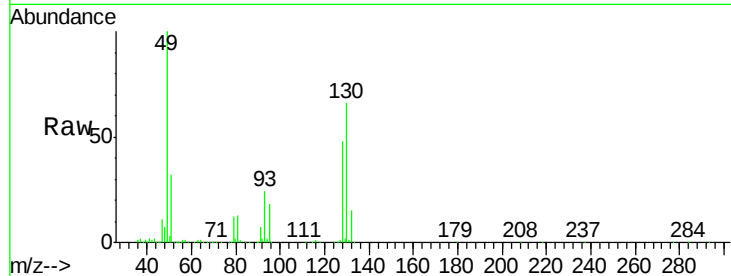
Tgt Ion: 49 Resp: 1331794

Ion Ratio Lower Upper

49 100

128 52.1 27.1 81.3

130 68.2 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

5.66

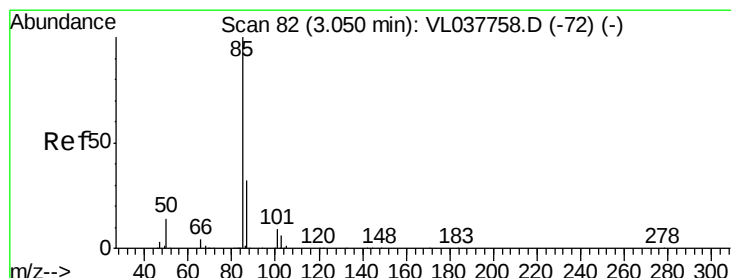
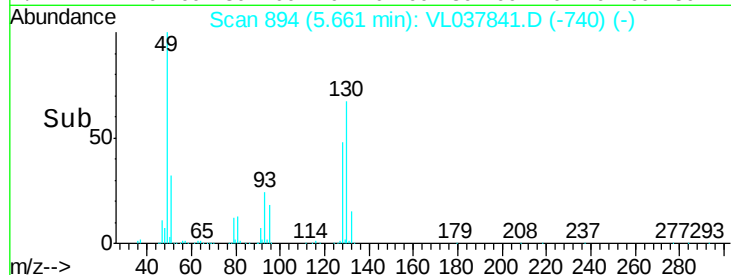
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.048 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037841.D

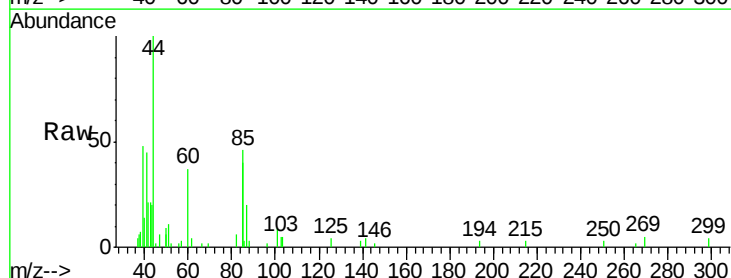
Acq: 12 Oct 2021 22:30

Tgt Ion: 85 Resp: 10138

Ion Ratio Lower Upper

85 100

87 23.5 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

10000

8000

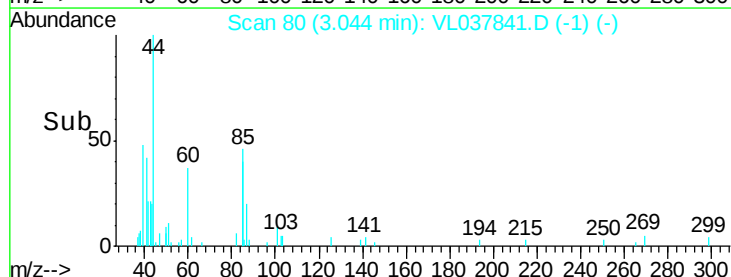
6000

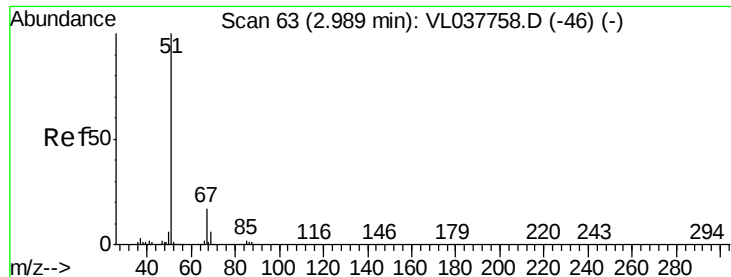
4000

2000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.049 ppbv

RT: 2.96 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP14DL

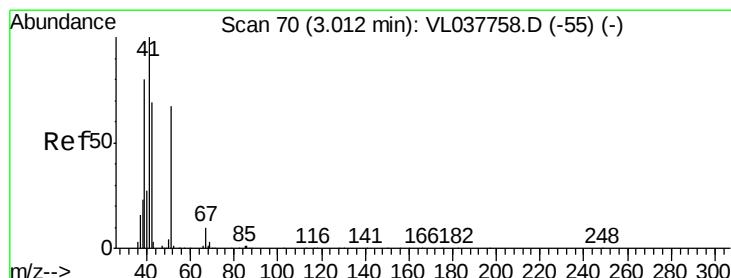
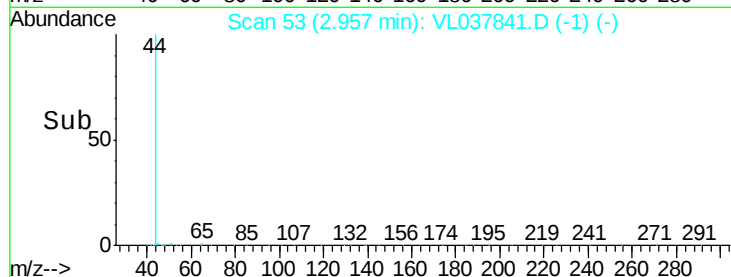
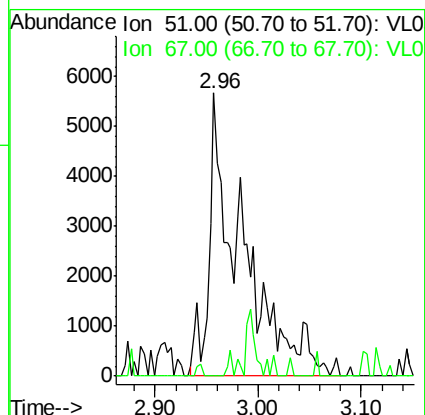
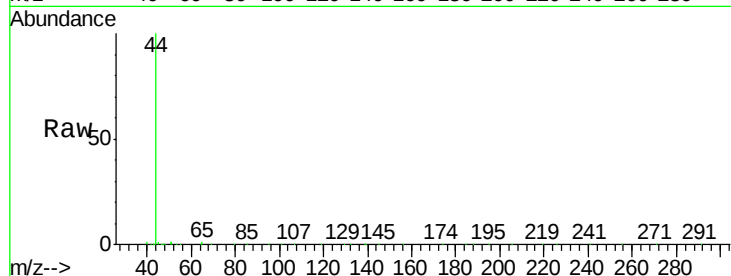
Acq: 12 Oct 2021 22:30

Tgt Ion: 51 Resp: 12622

Ion Ratio Lower Upper

51 100

67 0.6 13.5 20.3#



#9

Propene

Concen: 0.281 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037841.D

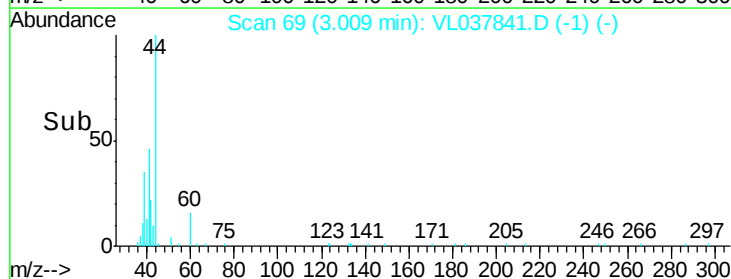
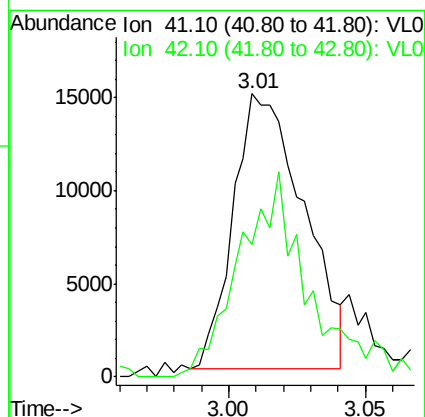
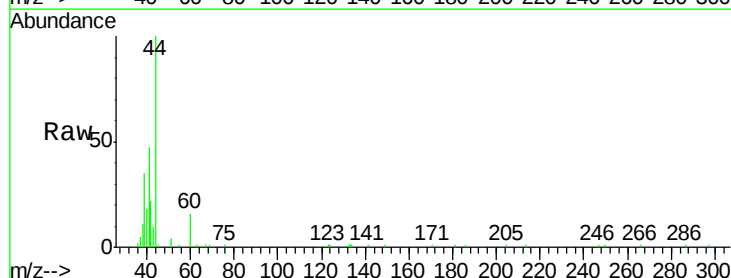
Acq: 12 Oct 2021 22:30

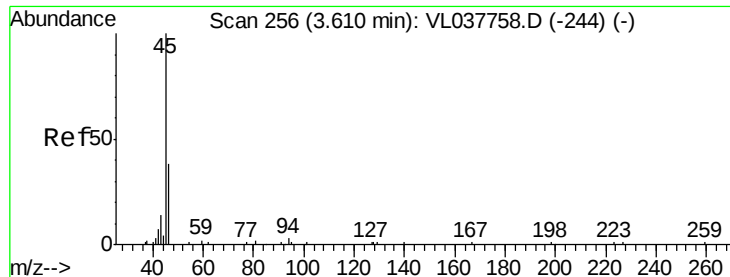
Tgt Ion: 41 Resp: 26503

Ion Ratio Lower Upper

41 100

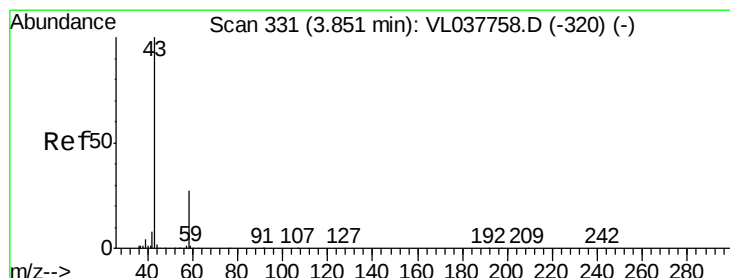
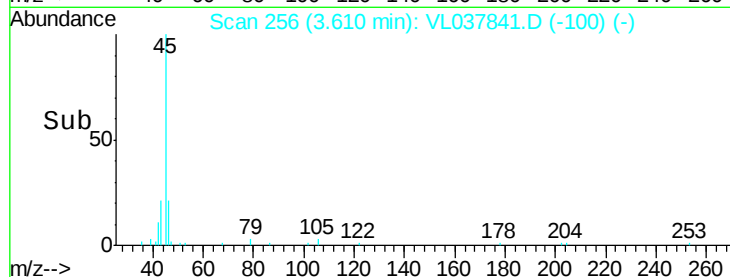
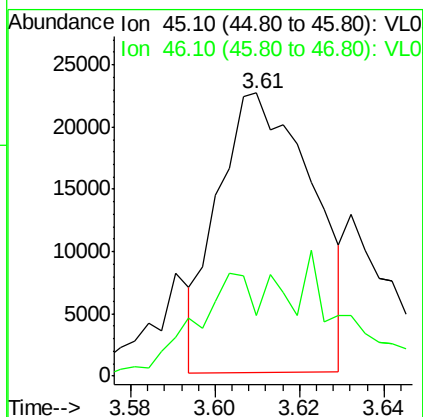
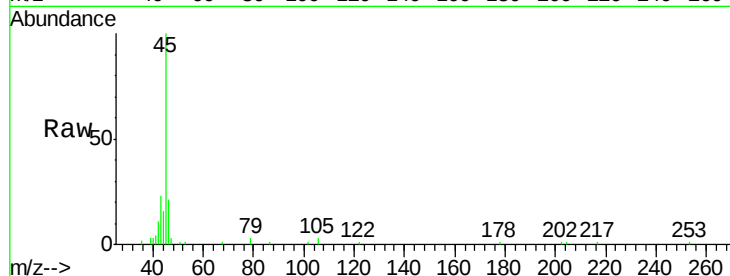
42 75.6 54.2 81.2





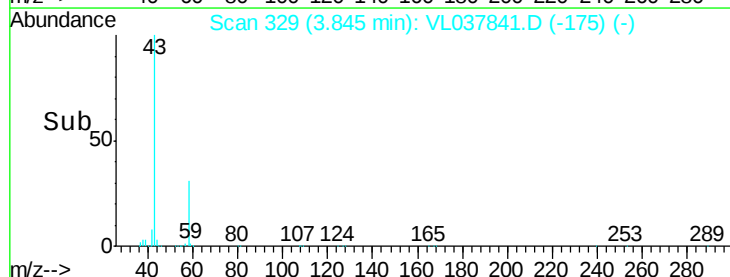
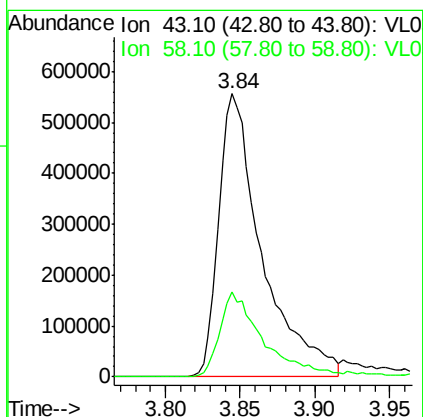
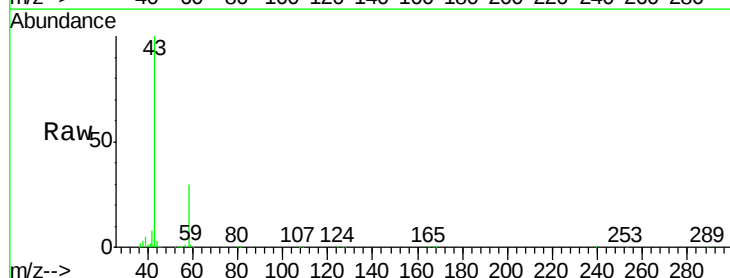
#13
Ethanol
Concen: 4.522 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP14DL
Acq: 12 Oct 2021 22:30

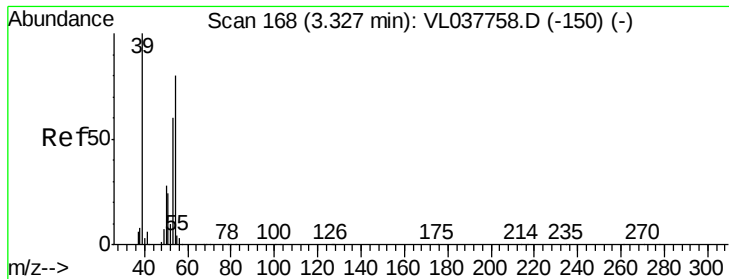
Tgt Ion: 45 Resp: 34818
Ion Ratio Lower Upper
45 100
46 0.0 20.2 81.0#



#15
Acetone
Concen: 9.326 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL037841.D
Acq: 12 Oct 2021 22:30

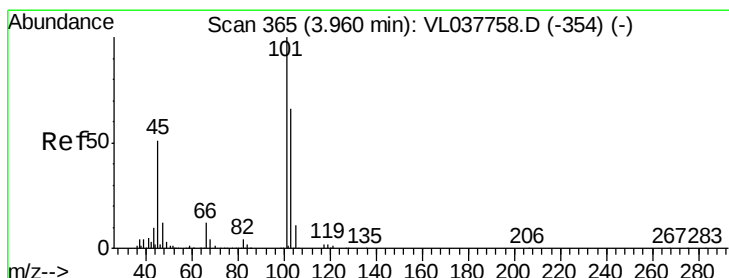
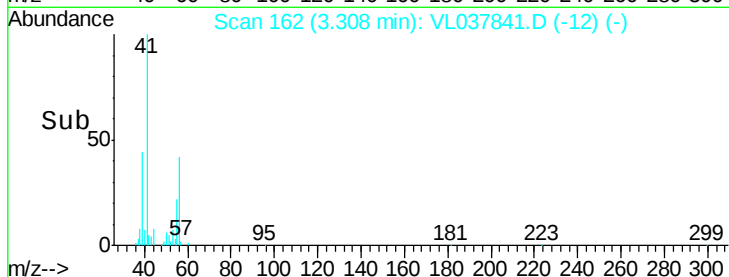
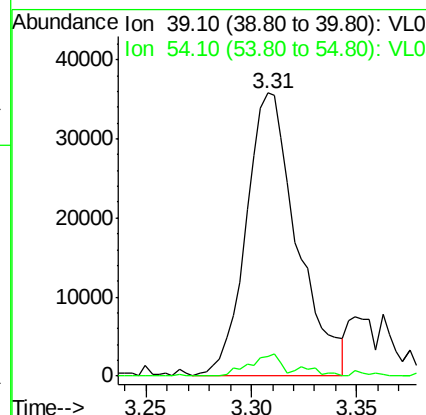
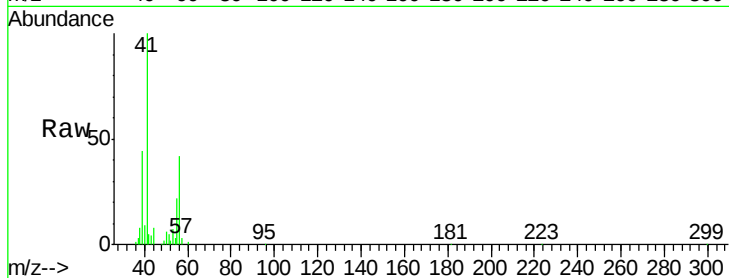
Tgt Ion: 43 Resp: 1115021
Ion Ratio Lower Upper
43 100
58 32.3 23.0 34.6





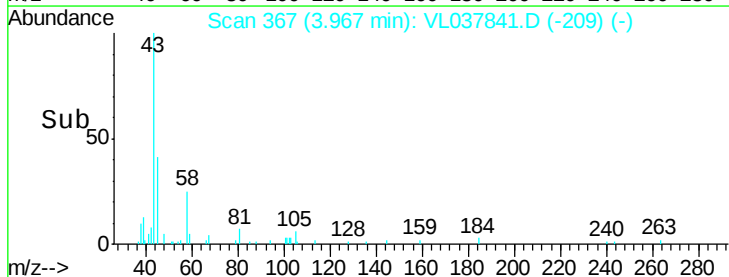
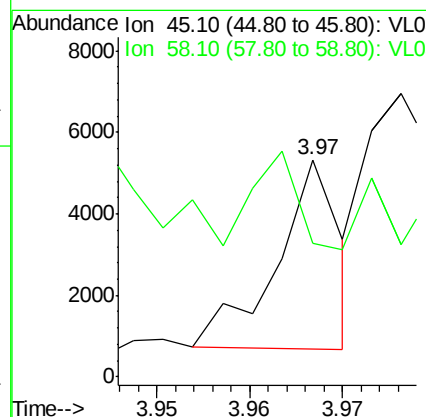
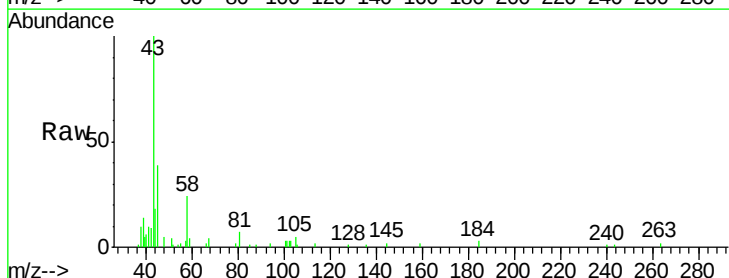
#16
 1,3-Butadiene
 Concen: 0.692 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0P14DL
 Acq: 12 Oct 2021 22:30

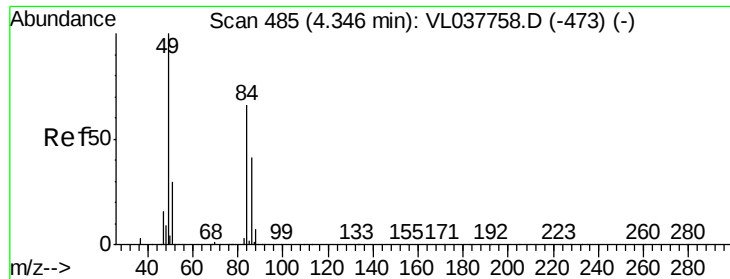
Tgt Ion: 39 Resp: 60237
 Ion Ratio Lower Upper
 39 100
 54 6.3 61.7 92.5#



#19
 Isopropyl Alcohol
 Concen: 0.030 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.01 min
 Lab File: VL037841.D
 Acq: 12 Oct 2021 22:30

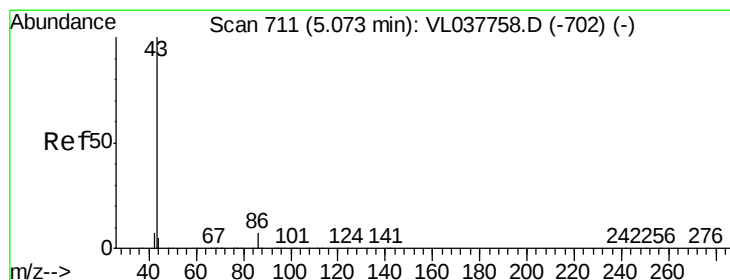
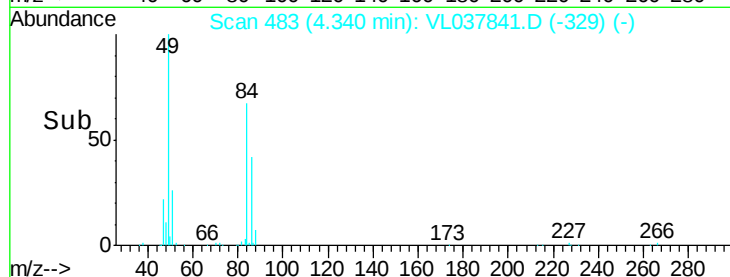
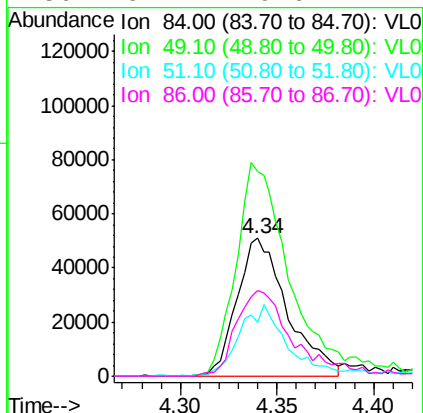
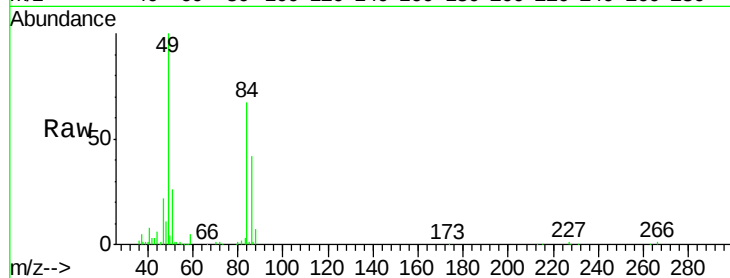
Tgt Ion: 45 Resp: 2211
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.1 1.7#





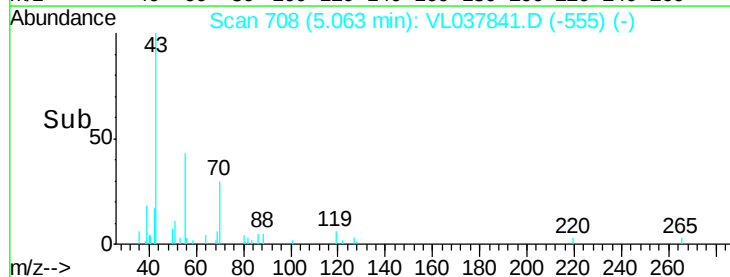
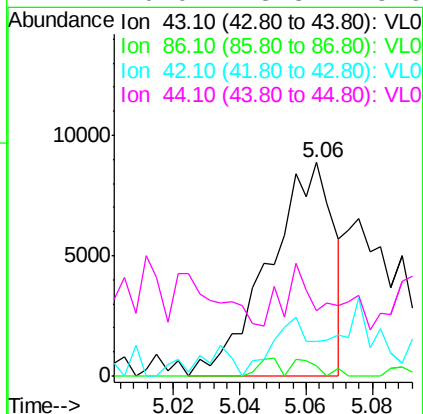
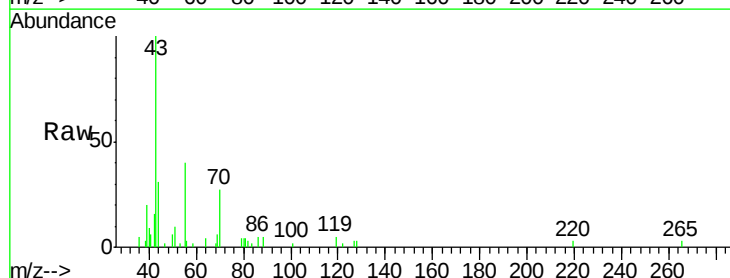
#20
Methylene Chloride
Concen: 1.533 ppbv
RT: 4.34
Delta R.T.:
Lab File: C0P14DL
Acq: 12 Oct 2021 22:30

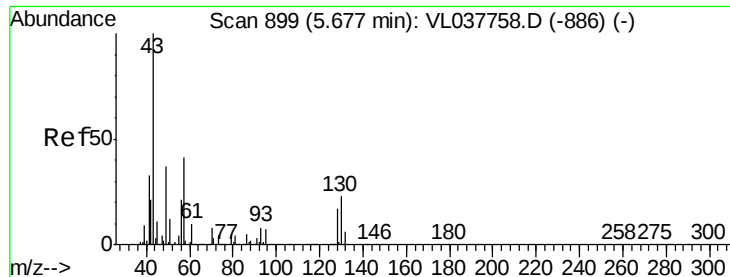
Tgt Ion:	84	Resp:	92581
Ion	Ratio	Lower	Upper
84	100		
49	148.7	120.7	181.1
51	38.4	36.2	54.4
86	62.2	49.6	74.4



#23
Vinyl Acetate
Concen: 0.067 ppbv
RT: 5.06 min Scan# 708
Delta R.T.: -0.01 min
Lab File: VL037841.D
Acq: 12 Oct 2021 22:30

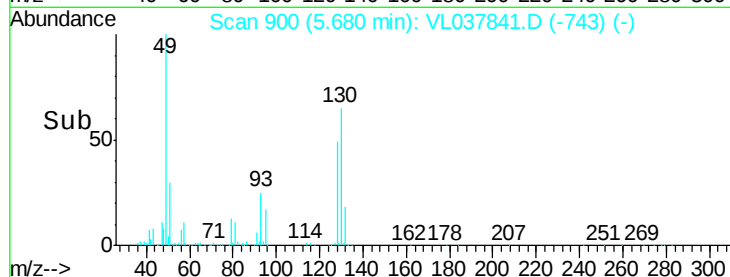
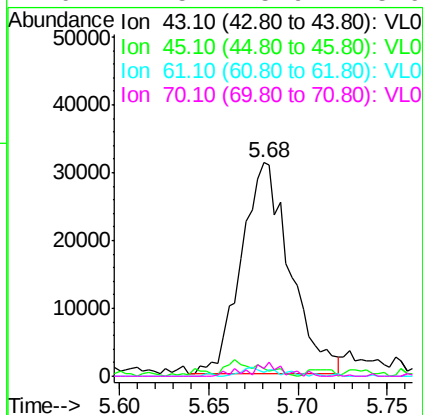
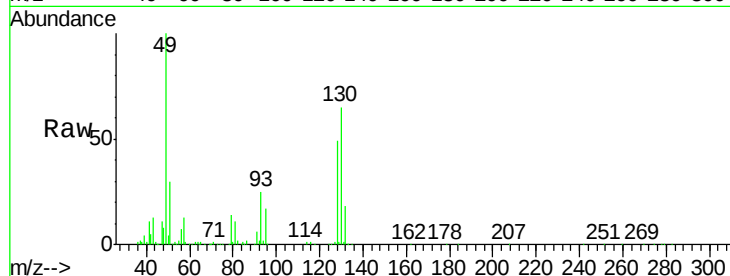
Tgt Ion:	43	Resp:	11974
Ion	Ratio	Lower	Upper
43	100		
86	4.8	5.0	7.4#
42	13.9	7.4	11.0#
44	0.0	3.8	5.6#





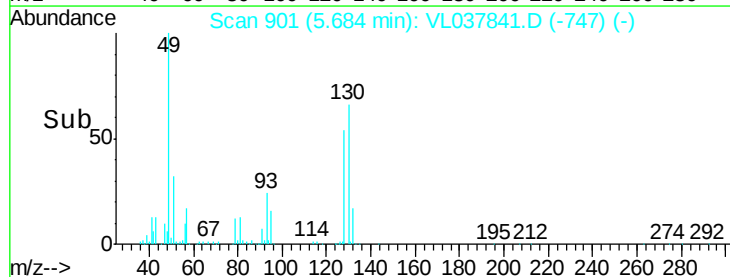
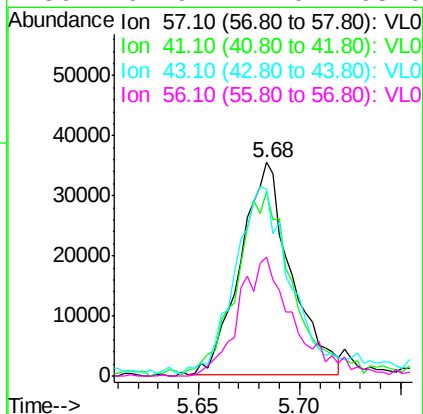
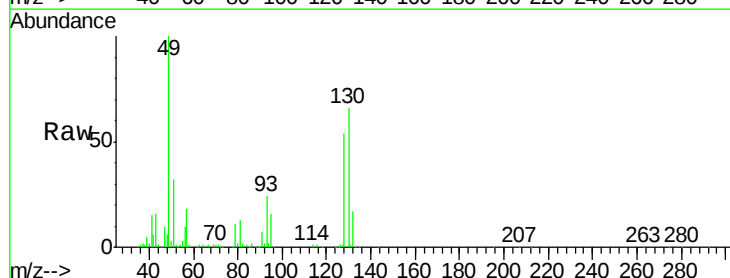
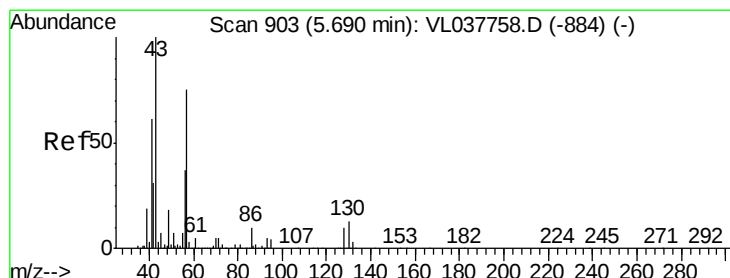
#25
Ethyl Acetate
Concen: 0.176 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP14DL
Acq: 12 Oct 2021 22:30

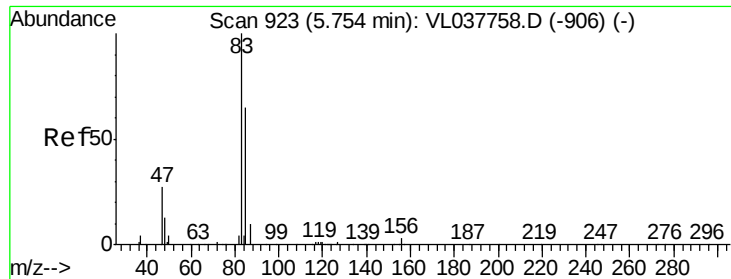
Tgt Ion:	43	Resp:	59038
Ion	Ratio	Lower	Upper
43	100		
45	6.8	8.1	12.1#
61	3.7	7.5	11.3#
70	4.5	5.9	8.9#



#26
Hexane
Concen: 0.373 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037841.D
Acq: 12 Oct 2021 22:30

Tgt Ion:	57	Resp:	61625
Ion	Ratio	Lower	Upper
57	100		
41	99.4	69.6	104.4
43	105.6	171.4	257.0#
56	61.9	42.0	63.0





#29

Chloroform

Concen: 0.030 ppbv

RT: 5.75 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP14DL

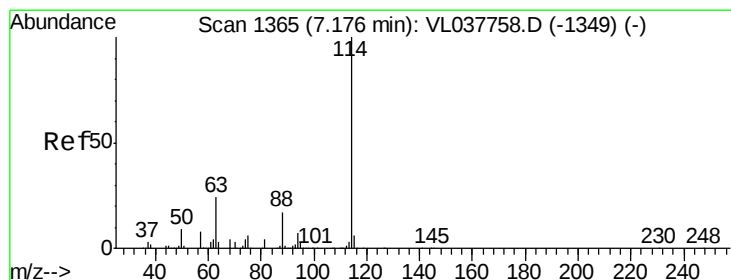
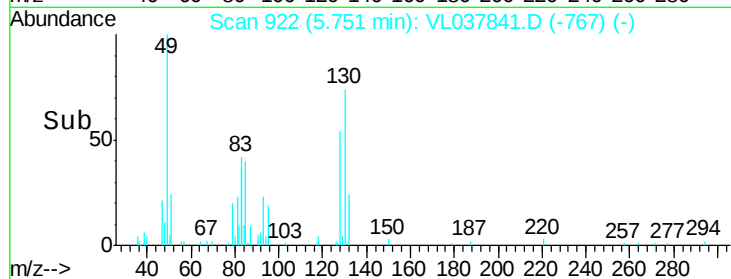
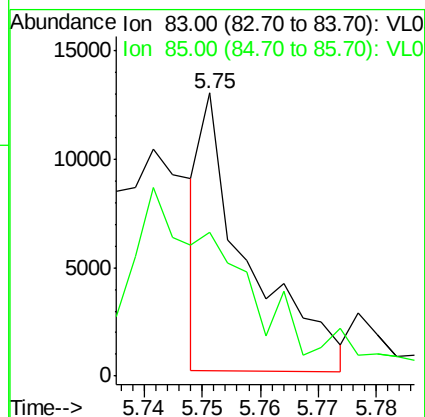
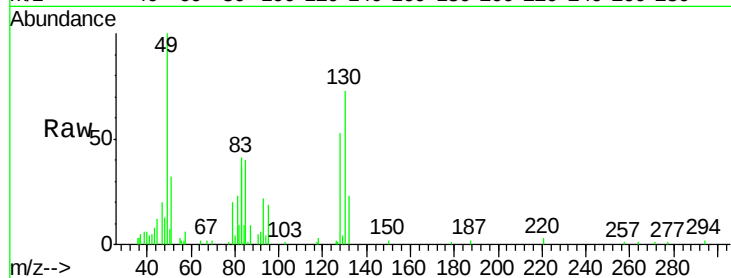
Acq: 12 Oct 2021 22:30

Tgt Ion: 83 Resp: 7179

Ion Ratio Lower Upper

83 100

85 38.2 51.8 77.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VL037841.D

Acq: 12 Oct 2021 22:30

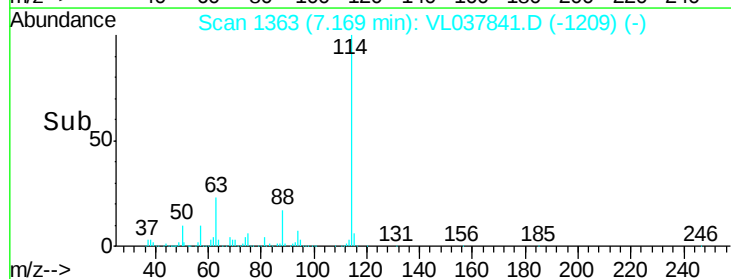
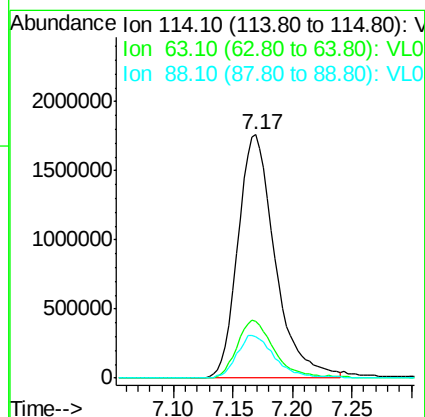
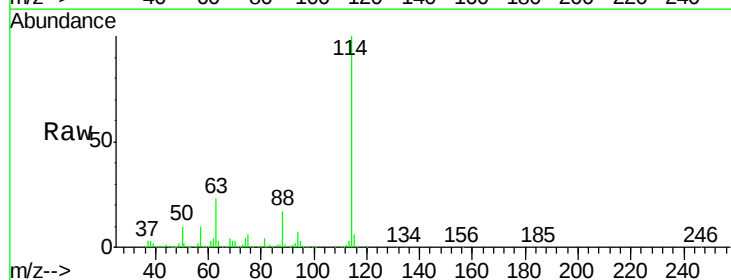
Tgt Ion: 114 Resp: 3817054

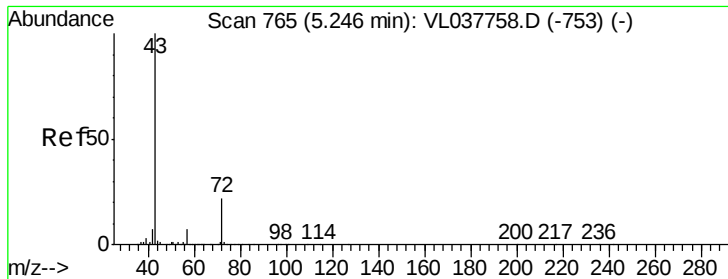
Ion Ratio Lower Upper

114 100

63 23.8 19.4 29.2

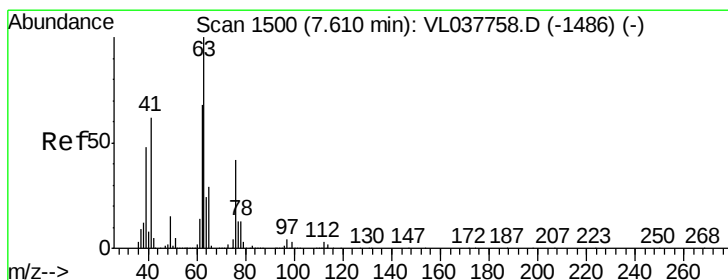
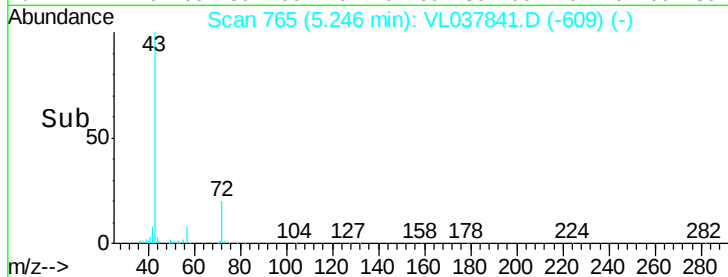
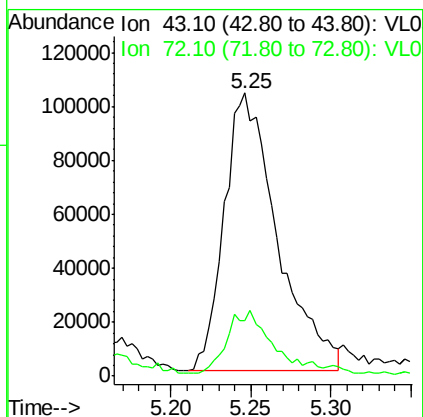
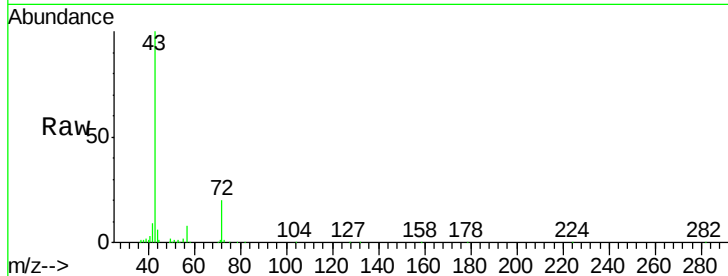
88 18.2 14.4 21.6





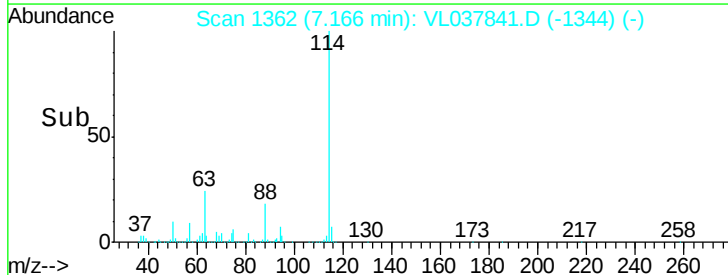
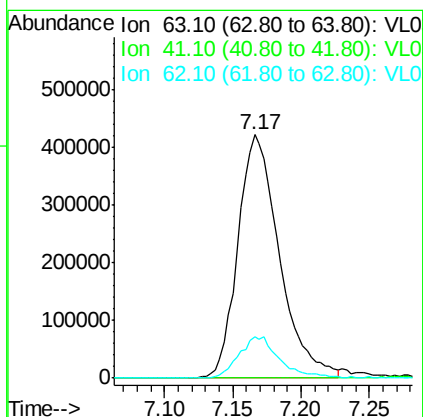
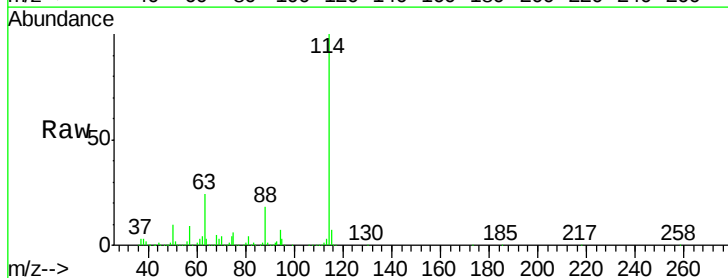
#34
 2-Butanone
 Concen: 1.524 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 22:30

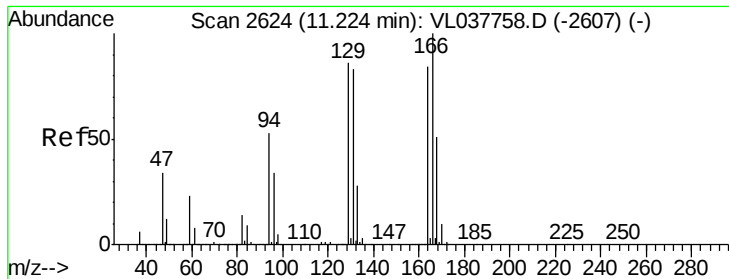
Tgt Ion: 43 Resp: 234850
 Ion Ratio Lower Upper
 43 100
 72 23.2 18.2 27.2



#39
 1,2-Dichloropropane
 Concen: 7.264 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.44 min
 Lab File: VL037841.D
 Acq: 12 Oct 2021 22:30

Tgt Ion: 63 Resp: 890844
 Ion Ratio Lower Upper
 63 100
 41 0.0 49.8 74.6#
 62 17.1 54.6 82.0#





#52

Tetrachloroethene

Concen: 0.044 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 22:30

Tgt Ion:164 Resp: 5538

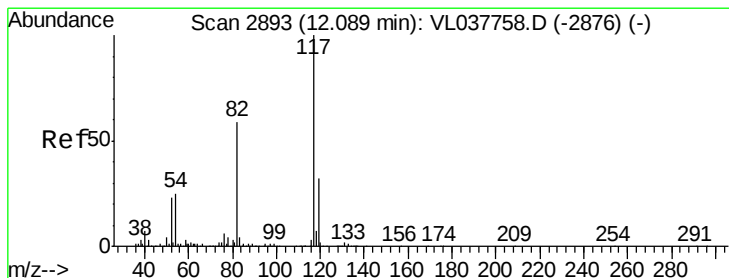
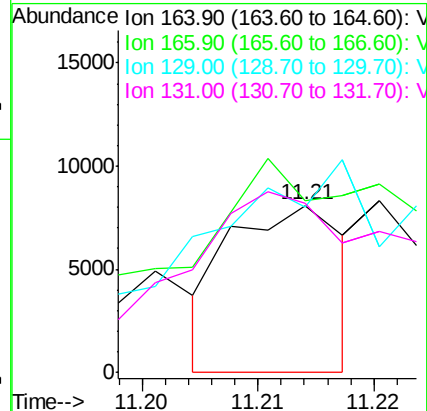
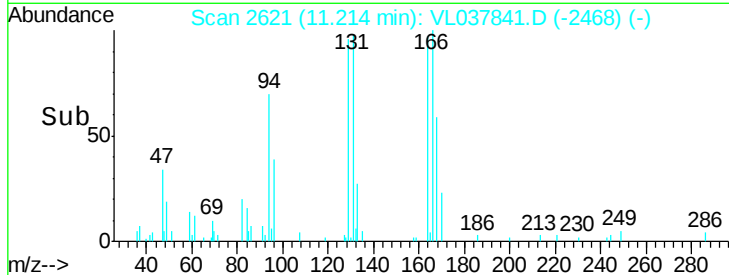
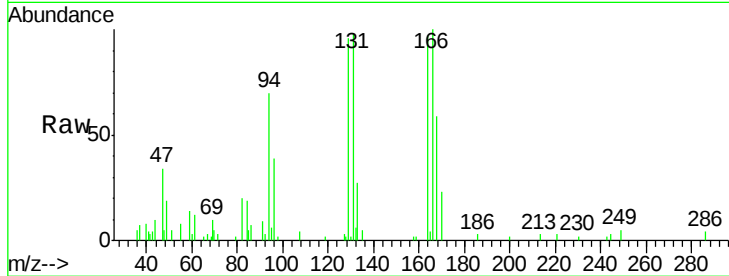
Ion Ratio Lower Upper

164 100

166 73.6 95.4 143.2#

129 32.4 82.2 123.4#

131 73.6 79.4 119.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL037841.D

Acq: 12 Oct 2021 22:30

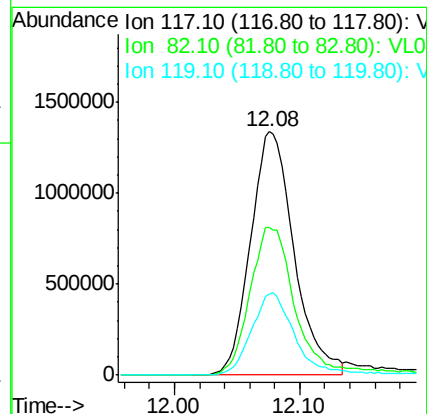
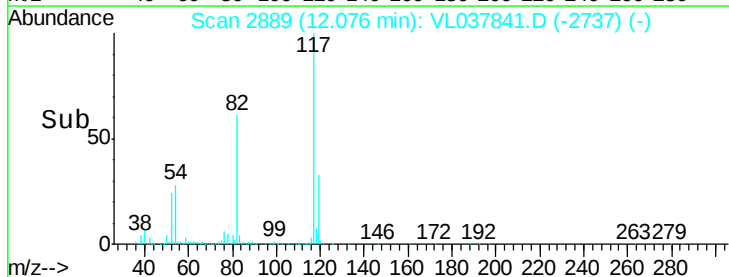
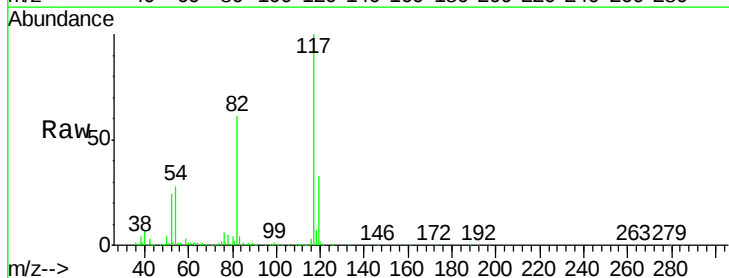
Tgt Ion:117 Resp: 3226108

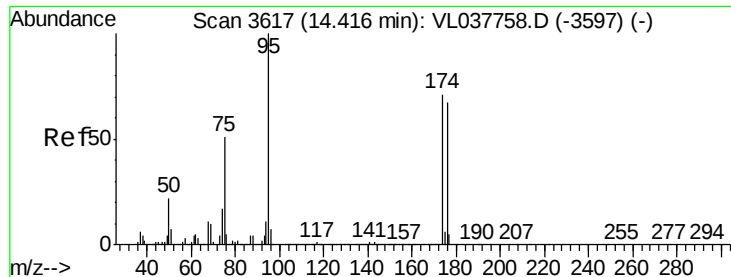
Ion Ratio Lower Upper

117 100

82 65.7 52.2 78.2

119 34.3 26.0 39.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.120 ppbv

RT: 14.41

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

COP14DL

Acq: 12 Oct 2021 22:30

Tgt Ion: 95 Resp: 2283080

Ion Ratio Lower Upper

95 100

174 75.9 57.8 86.6

175 5.7 4.7 7.1

