

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037782.D
 Acq On : 5 Oct 2021 20:38
 Operator : SY/AP
 Sample : M4012-11 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P07

Quant Time: Oct 06 04:48:14 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	5.65	49	1260783	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3622326	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3165888	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2198822	9.93	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

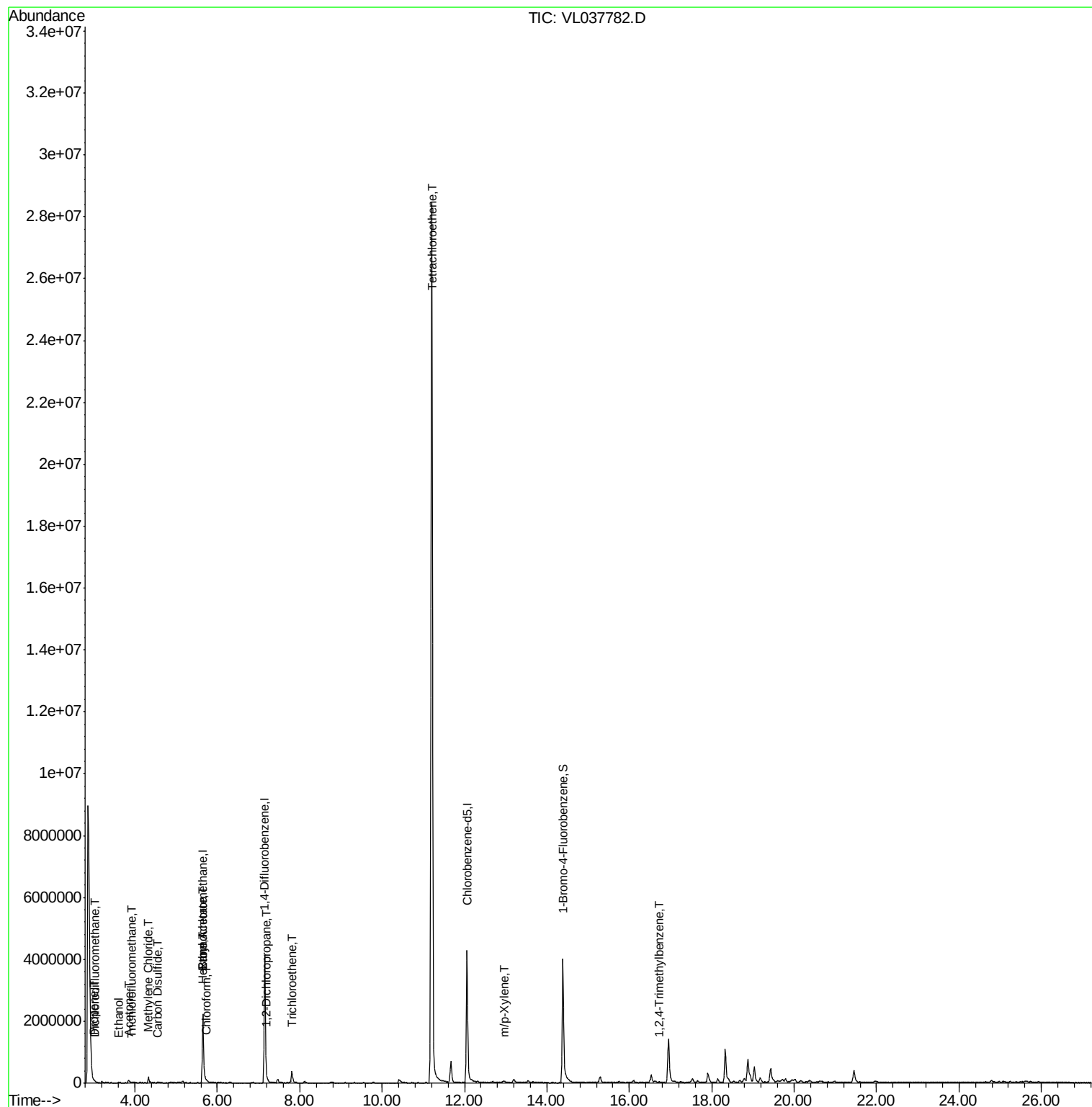
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	5695	0.028	ppbv #	75
9) Propene	3.01	41	9324	0.105	ppbv #	51
11) Trichlorofluoromethane	3.93	101	5656	0.031	ppbv #	57
13) Ethanol	3.60	45	5593	0.767	ppbv #	27
15) Acetone	3.83	43	44013	0.389	ppbv #	46
20) Methylene Chloride	4.33	84	73039	1.277	ppbv	89
25) Ethyl Acetate	5.66	43	12384	0.039	ppbv #	82
26) Hexane	5.66	57	34295	0.219	ppbv #	41
27) Carbon Disulfide	4.54	76	3537	0.026	ppbv #	64
29) Chloroform	5.73	83	13014	0.058	ppbv #	57
38) Trichloroethene	7.81	130	136635	1.118	ppbv	96
39) 1,2-Dichloropropane	7.20	63	14355	0.123	ppbv #	32
52) Tetrachloroethene	11.21	164	9402905	78.115	ppbv	96
59) m/p-Xylene	12.97	91	11399	0.031	ppbv #	30
74) 1,2,4-Trimethylbenzene	16.73	105	7770	0.021	ppbv #	83

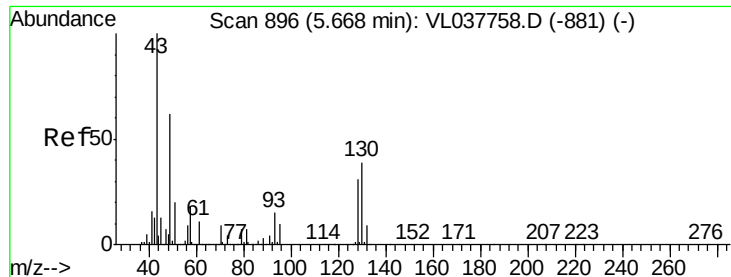
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL037782.D

Acq: 5 Oct 2021 20:38

Instrument :

MSVOA_L

ClientSampleId :

C0P07

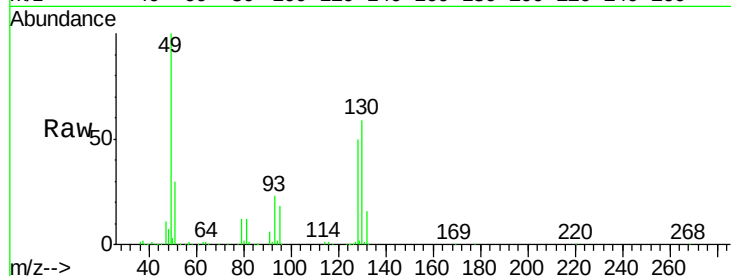
Tgt Ion: 49 Resp: 1260783

Ion Ratio Lower Upper

49 100

128 53.1 27.1 81.3

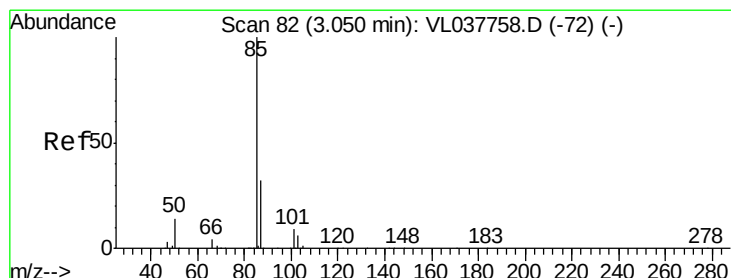
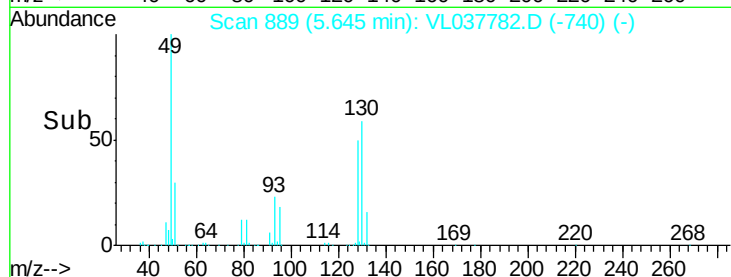
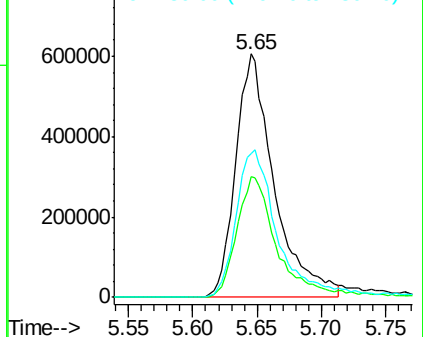
130 68.0 33.2 99.6



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



#2

Dichlorodifluoromethane

Concen: 0.028 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037782.D

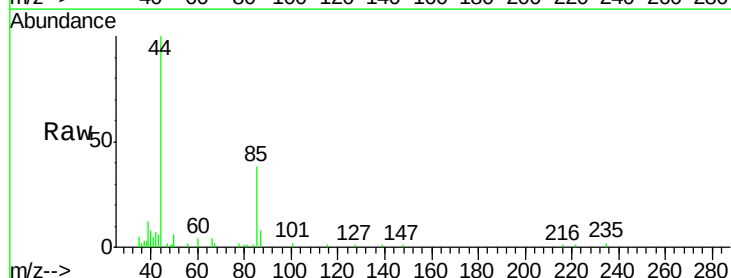
Acq: 5 Oct 2021 20:38

Tgt Ion: 85 Resp: 5695

Ion Ratio Lower Upper

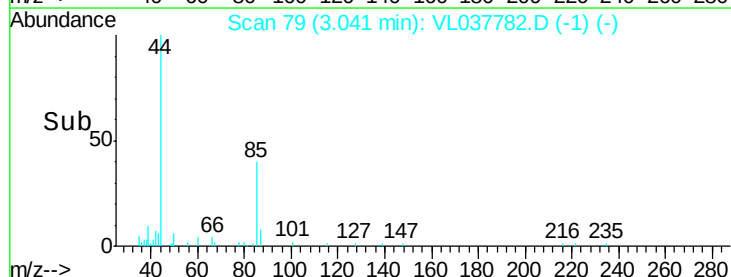
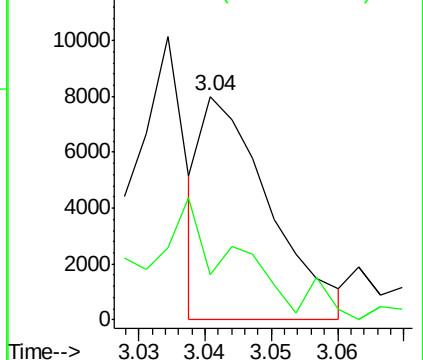
85 100

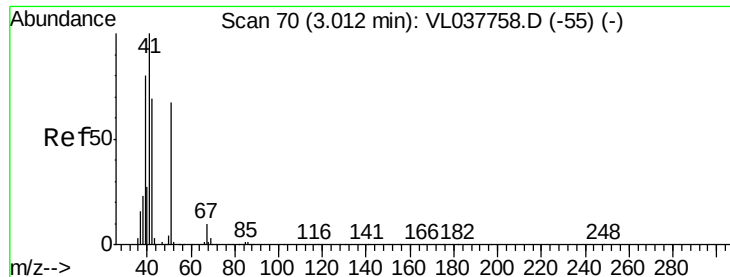
87 18.0 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.105 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037782.D

Acq: 5 Oct 2021 20:38

Instrument :

MSVOA_L

ClientSampleId :

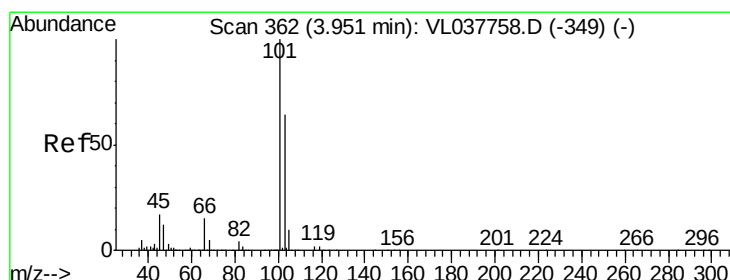
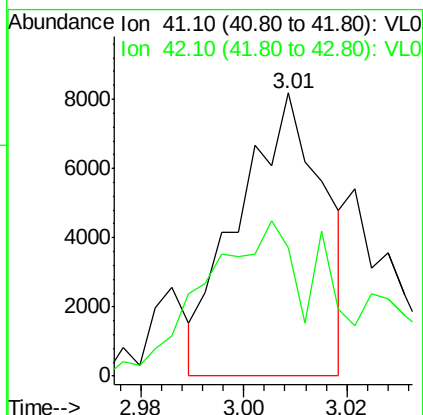
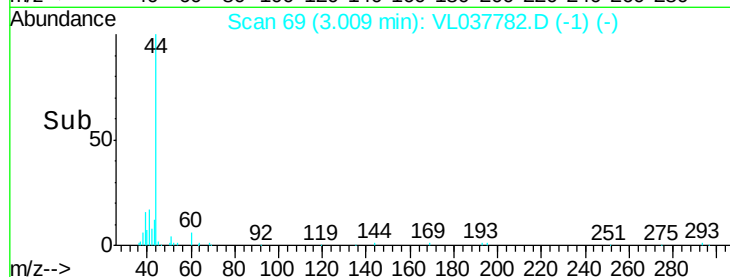
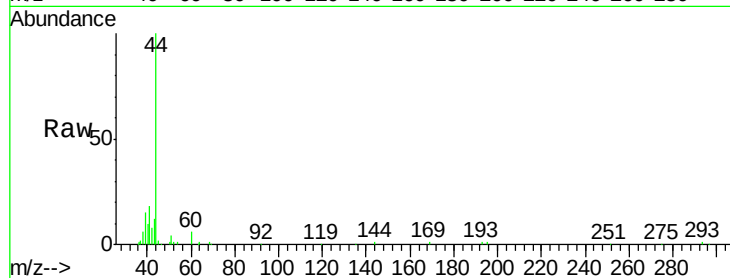
C0P07

Tgt Ion: 41 Resp: 9324

Ion Ratio Lower Upper

41 100

42 107.3 54.2 81.2#



#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.02 min

Lab File: VL037782.D

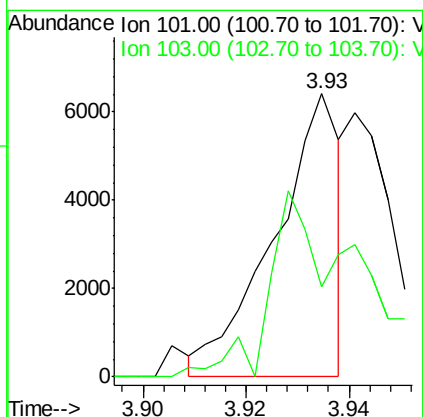
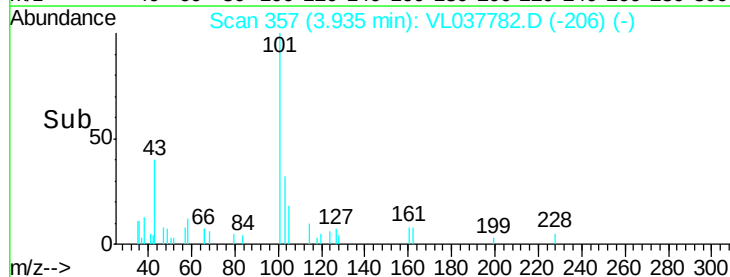
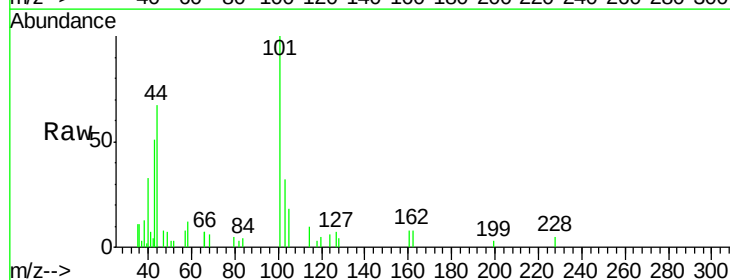
Acq: 5 Oct 2021 20:38

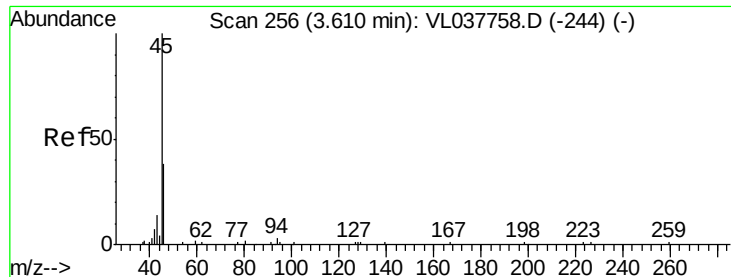
Tgt Ion: 101 Resp: 5656

Ion Ratio Lower Upper

101 100

103 31.0 51.5 77.3#





#13

Ethanol

Concen: 0.767 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL037782.D

Acq: 5 Oct 2021 20:38

Instrument :

MSVOA_L

ClientSampleId :

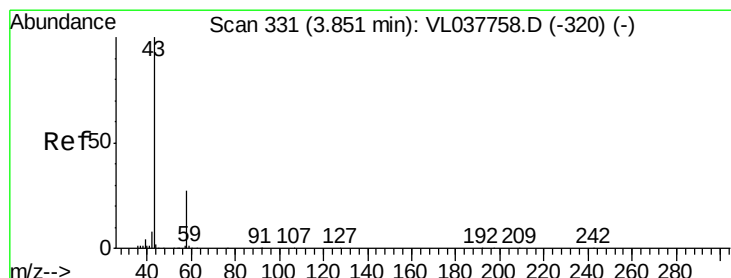
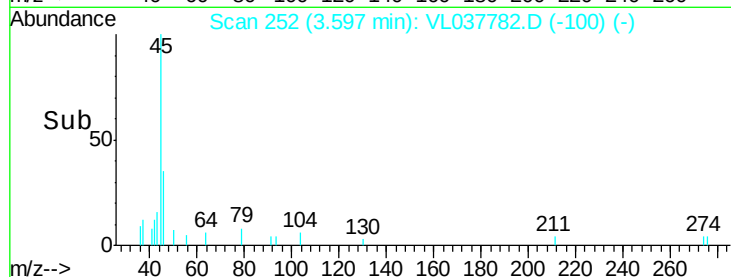
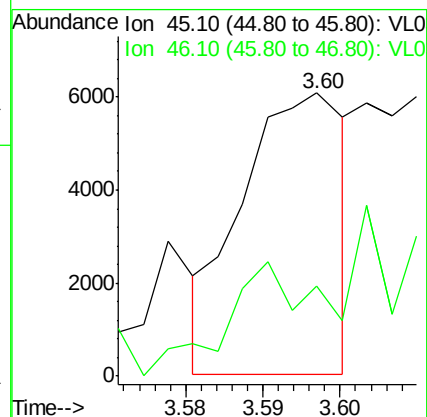
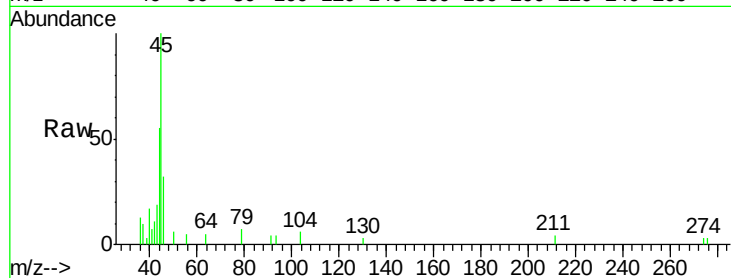
C0P07

Tgt Ion: 45 Resp: 5593

Ion Ratio Lower Upper

45 100

46 0.0 20.2 81.0#



#15

Acetone

Concen: 0.389 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL037782.D

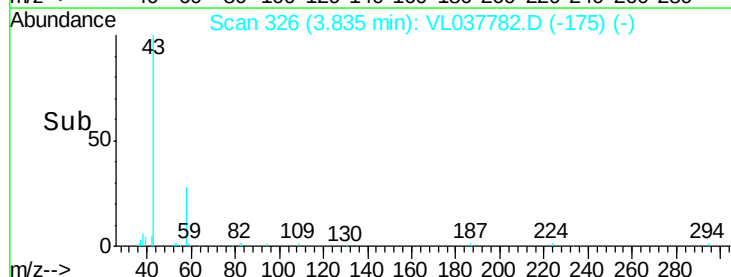
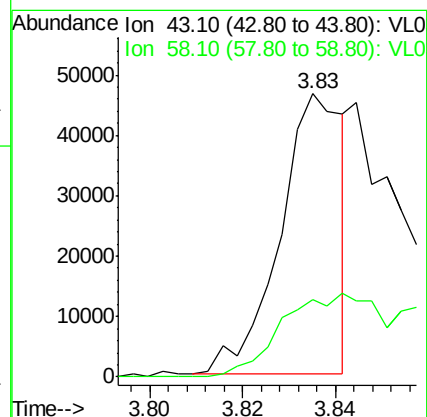
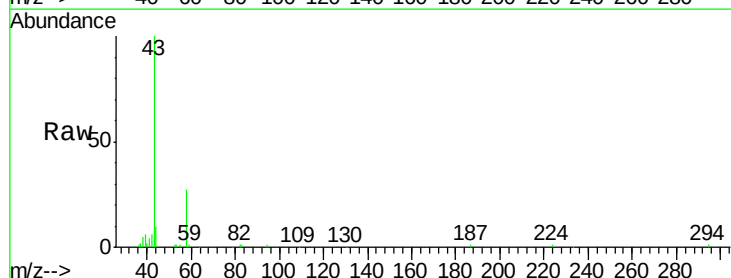
Acq: 5 Oct 2021 20:38

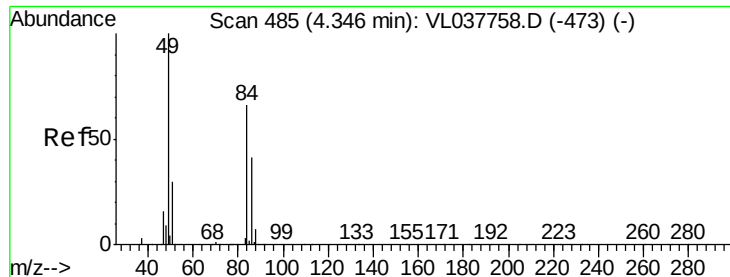
Tgt Ion: 43 Resp: 44013

Ion Ratio Lower Upper

43 100

58 0.0 23.0 34.6#

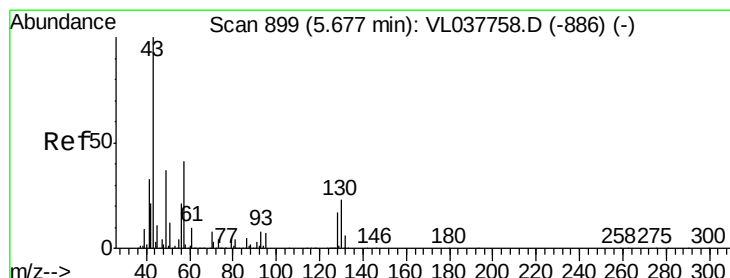
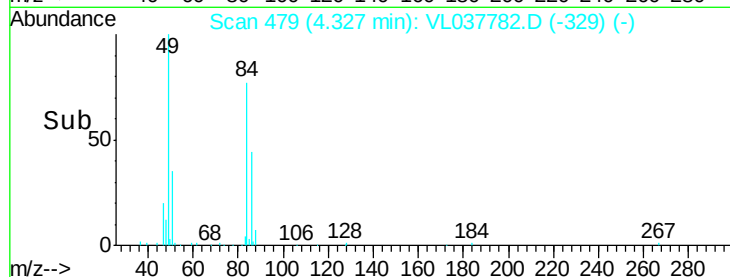
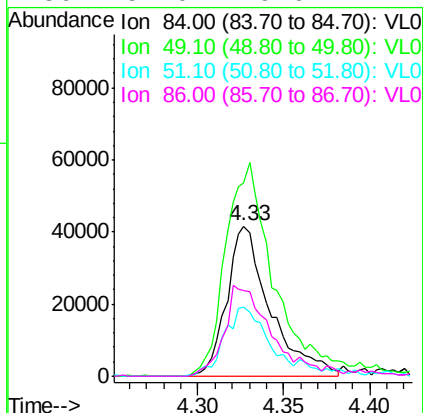
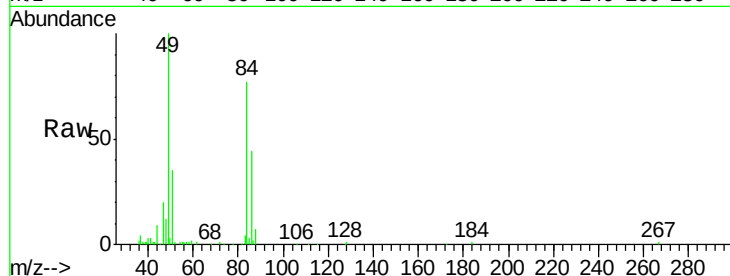




#20
Methylene Chloride
Concen: 1.277 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.02 min
Lab File: VL037782.D
Acq: 5 Oct 2021 20:38

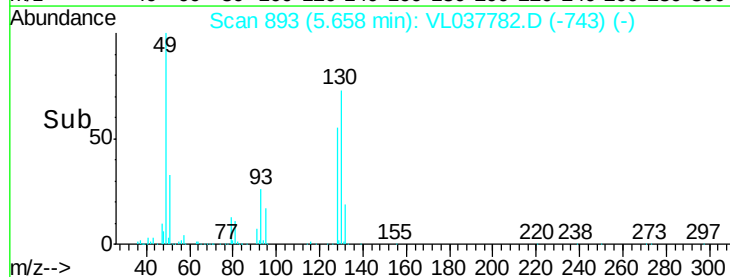
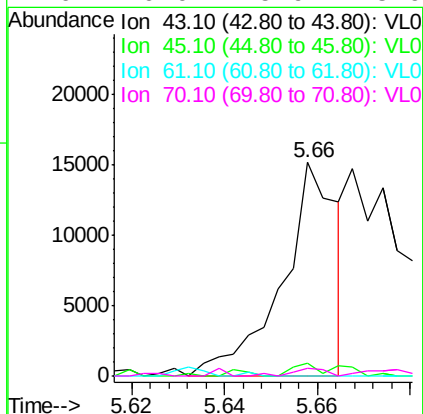
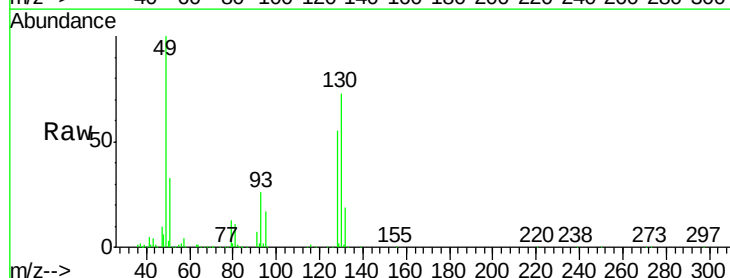
Instrument :
MSVOA_L
ClientSampleId :
C0P07

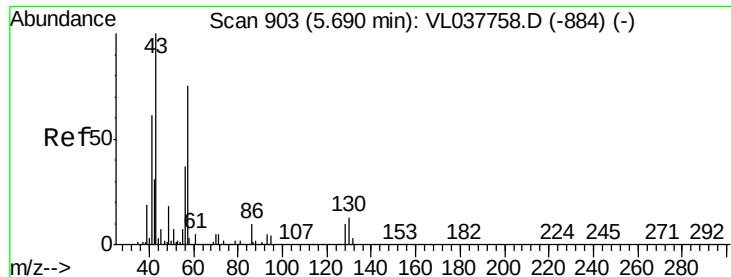
Tgt Ion:	84	Resp:	73039
Ion	Ratio	Lower	Upper
84	100		
49	129.4	120.7	181.1
51	45.4	36.2	54.4
86	57.0	49.6	74.4



#25
Ethyl Acetate
Concen: 0.039 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL037782.D
Acq: 5 Oct 2021 20:38

Tgt Ion:	43	Resp:	12384
Ion	Ratio	Lower	Upper
43	100		
45	7.0	8.1	12.1#
61	0.0	7.5	11.3#
70	0.0	5.9	8.9#

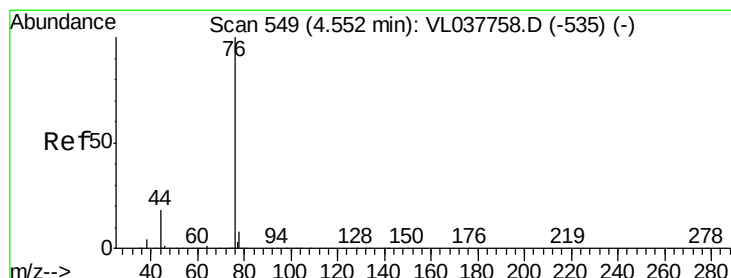
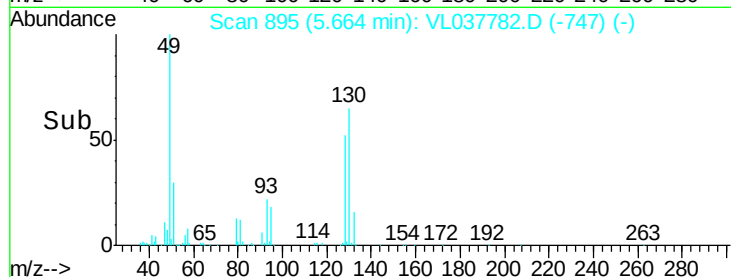
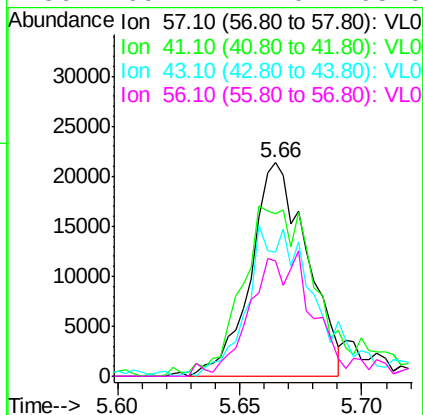
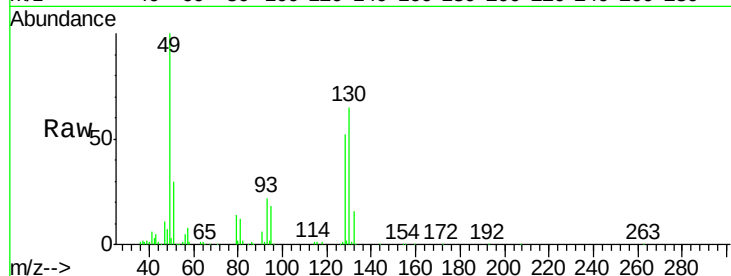




#26
Hexane
Concen: 0.219 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.03 min
Lab File: VL037782.D
Acq: 5 Oct 2021 20:38

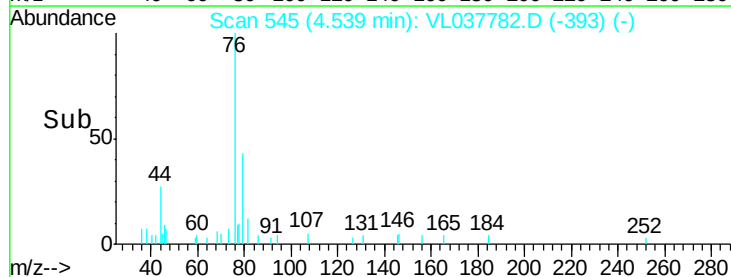
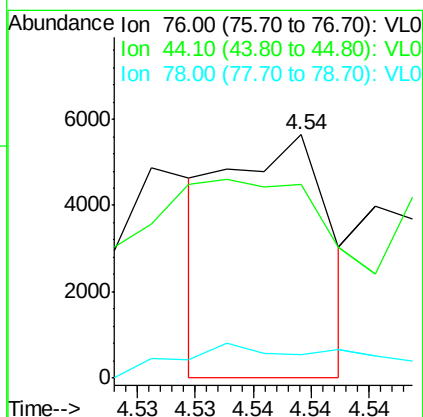
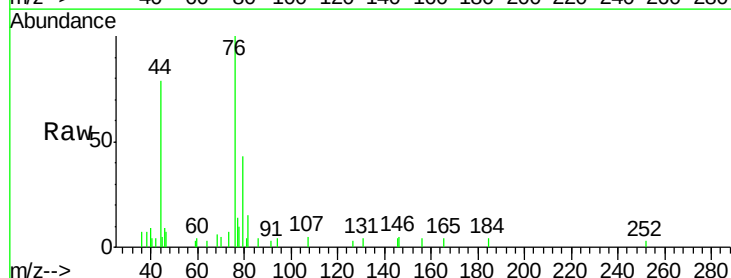
Instrument :
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ClientSampleId :
C0P07

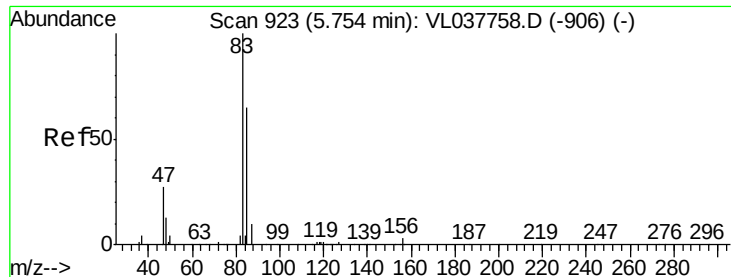
Tgt Ion:	57	Resp:	34295
Ion	Ratio	Lower	Upper
57	100		
41	117.4	69.6	104.4#
43	90.0	171.4	257.0#
56	69.2	42.0	63.0#



#27
Carbon Disulfide
Concen: 0.026 ppbv
RT: 4.54 min Scan# 545
Delta R.T. -0.01 min
Lab File: VL037782.D
Acq: 5 Oct 2021 20:38

Tgt Ion:	76	Resp:	3537
Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.3	21.5#
78	0.0	7.8	11.6#

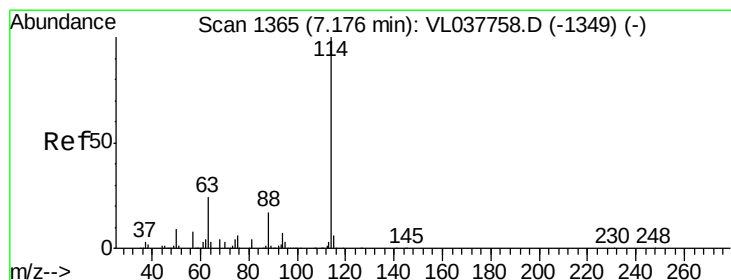
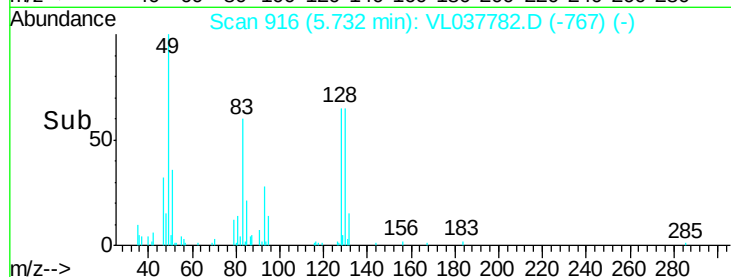
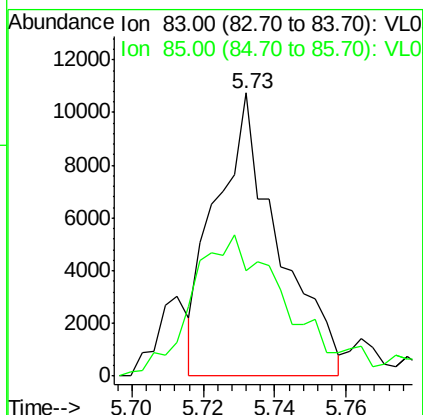
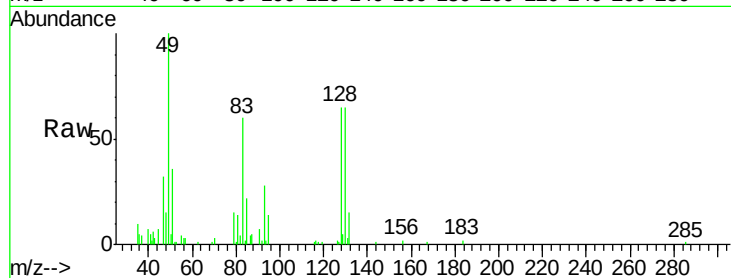




#29
Chloroform
Concen: 0.058 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.02 min
Lab File: VL037782.D
Acq: 5 Oct 2021 20:38

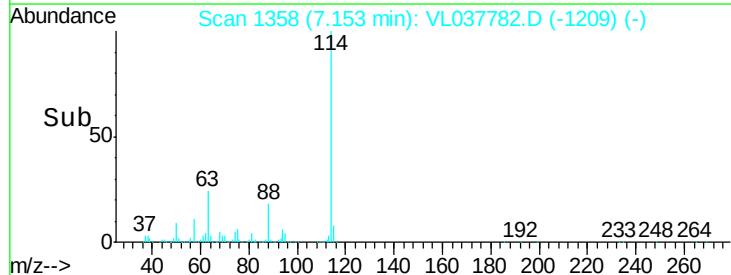
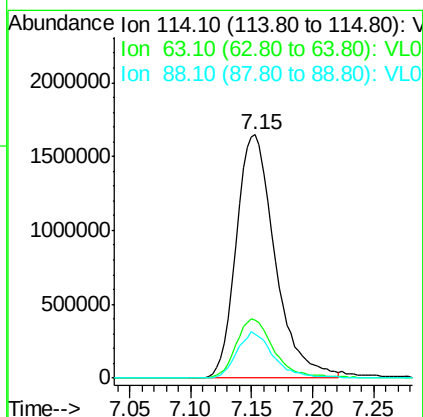
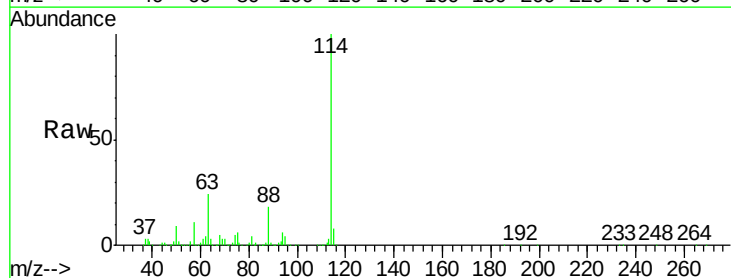
Instrument :
MSVOA_L
ClientSampleId :
C0P07

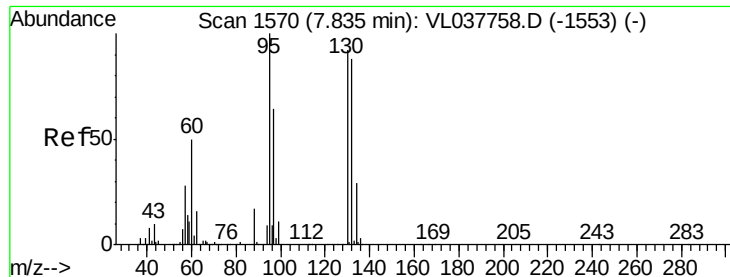
Tgt Ion: 83 Resp: 13014
Ion Ratio Lower Upper
83 100
85 31.1 51.8 77.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.02 min
Lab File: VL037782.D
Acq: 5 Oct 2021 20:38

Tgt Ion: 114 Resp: 3622326
Ion Ratio Lower Upper
114 100
63 24.1 19.4 29.2
88 18.2 14.4 21.6





#38

Trichloroethene

Concen: 1.118 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.02 min

Lab File: VL037782.D

Acq: 5 Oct 2021 20:38

Instrument :

MSVOA_L

ClientSampleId :

C0P07

Tgt Ion:130 Resp: 136635

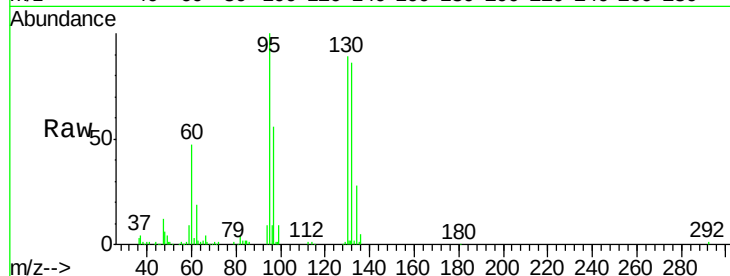
Ion Ratio Lower Upper

130 100

95 112.9 87.4 131.0

132 96.7 76.8 115.2

97 63.1 55.8 83.8

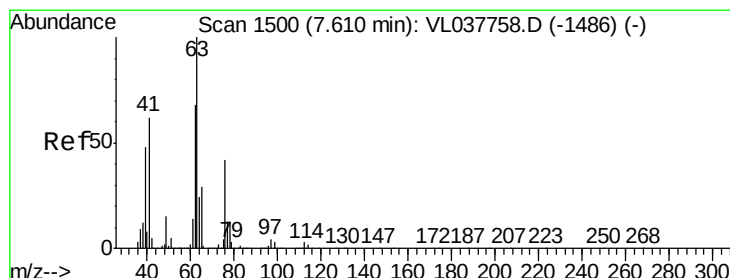
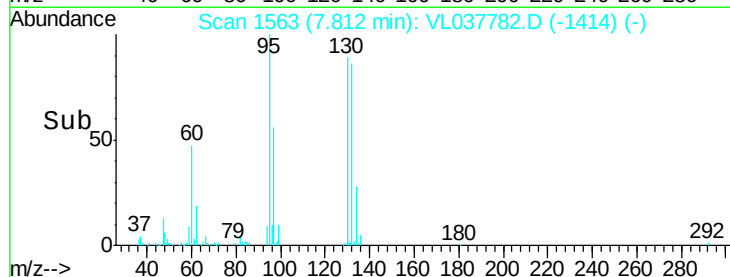
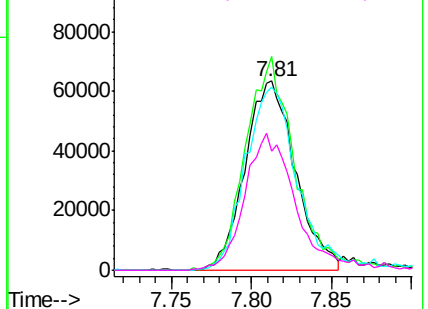


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.123 ppbv

RT: 7.20 min Scan# 1373

Delta R.T. -0.41 min

Lab File: VL037782.D

Acq: 5 Oct 2021 20:38

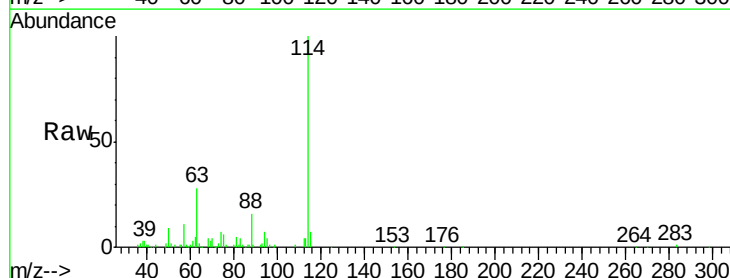
Tgt Ion: 63 Resp: 14355

Ion Ratio Lower Upper

63 100

41 2.4 49.8 74.6#

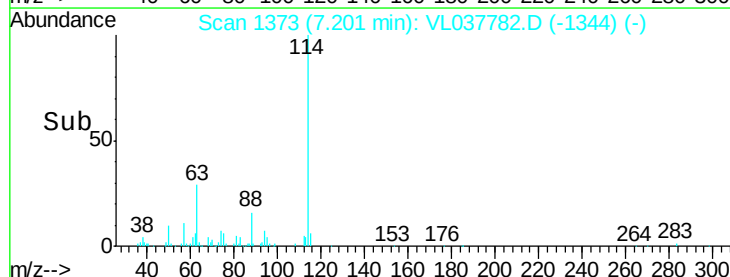
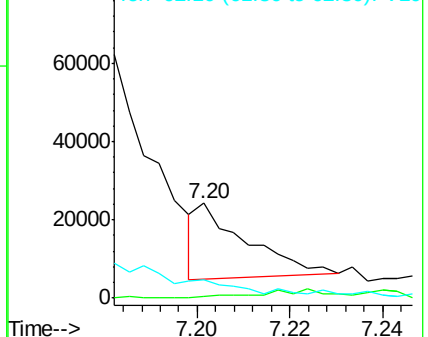
62 20.2 54.6 82.0#

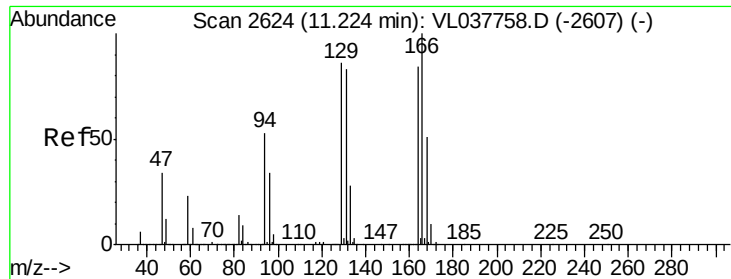


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 78.115 ppbv

RT: 11.21 min Scan# 2619

Delta R.T. -0.02 min

Lab File: VL037782.D

Acq: 5 Oct 2021 20:38

Instrument :

MSVOA_L

ClientSampleId :

C0P07

Tgt Ion:164 Resp: 9402905

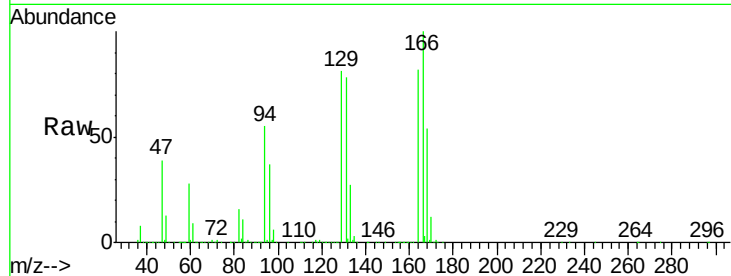
Ion Ratio Lower Upper

164 100

166 122.2 95.4 143.2

129 98.8 82.2 123.4

131 95.1 79.4 119.2

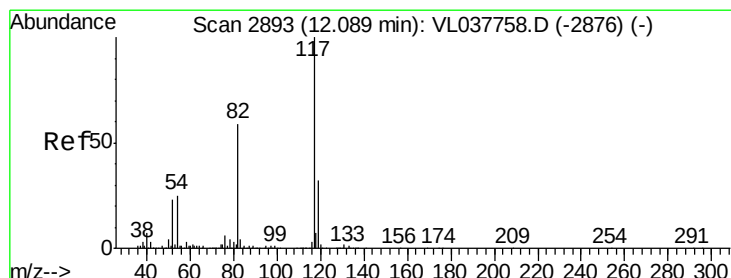
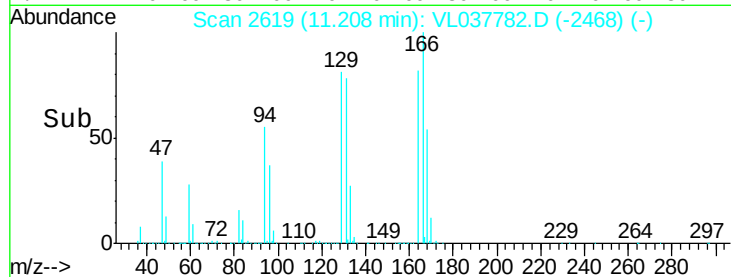
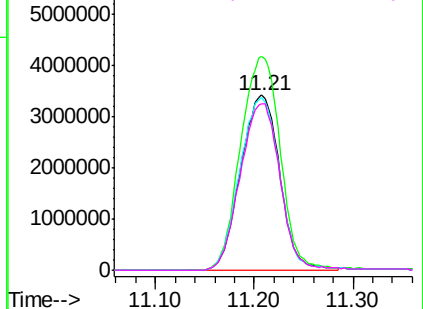


Abundance Ion 163.90 (163.60 to 164.60): V

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL037782.D

Acq: 5 Oct 2021 20:38

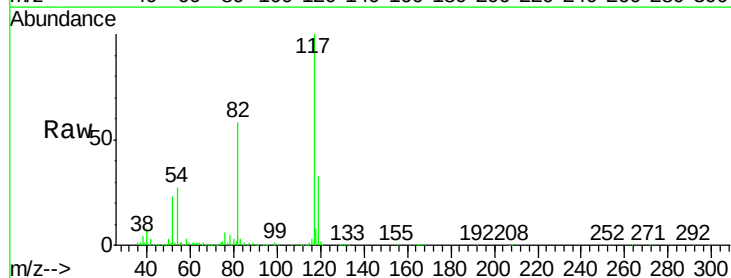
Tgt Ion:117 Resp: 3165888

Ion Ratio Lower Upper

117 100

82 63.3 52.2 78.2

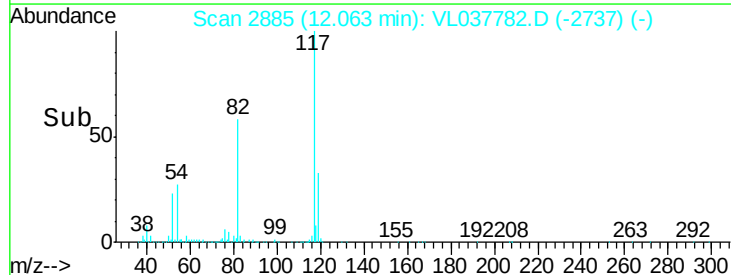
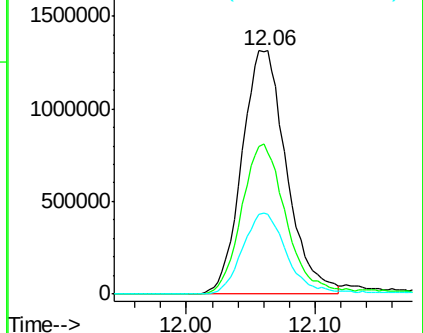
119 34.4 26.0 39.0

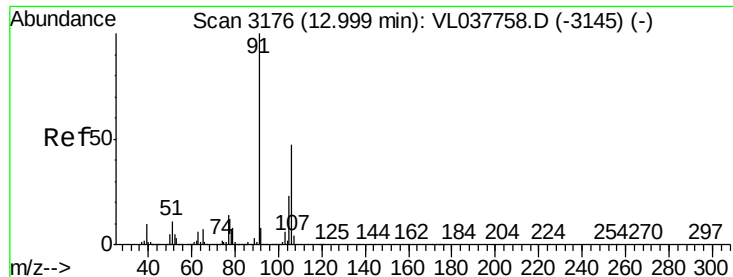


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

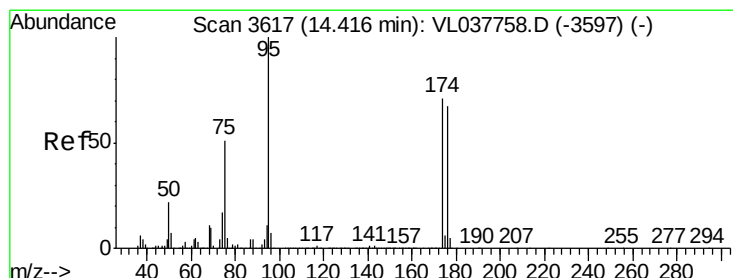
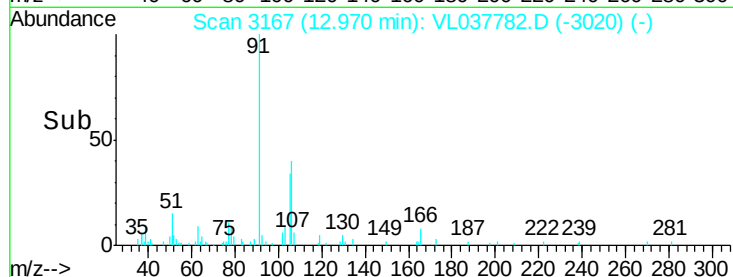
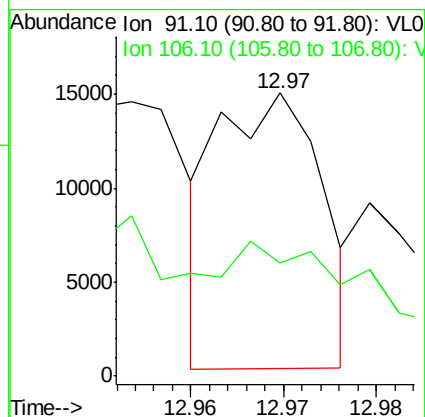
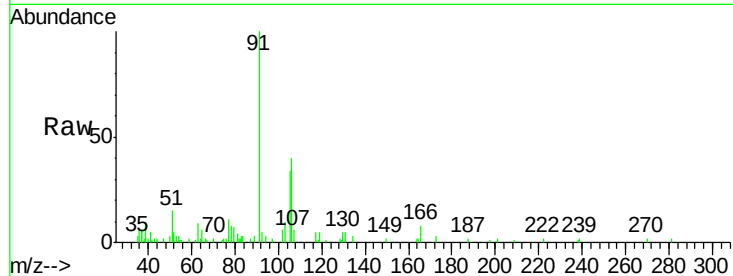




#59
m/p-Xylene
Concen: 0.031 ppbv
RT: 12.97 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL037782.D
Acq: 5 Oct 2021 20:38

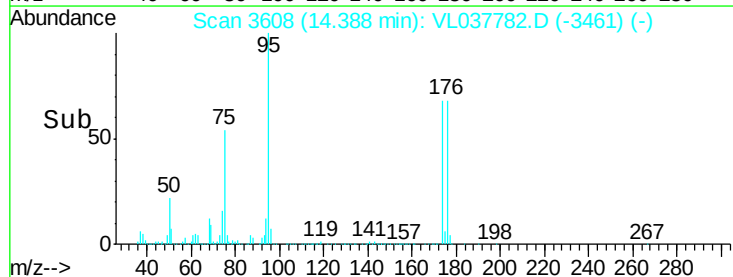
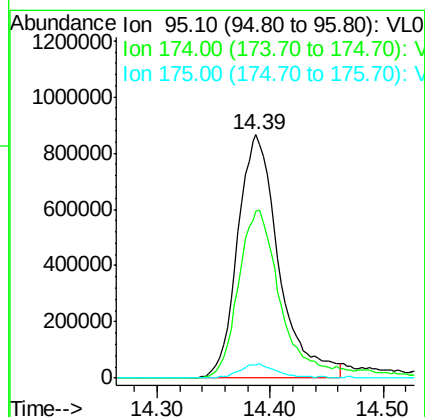
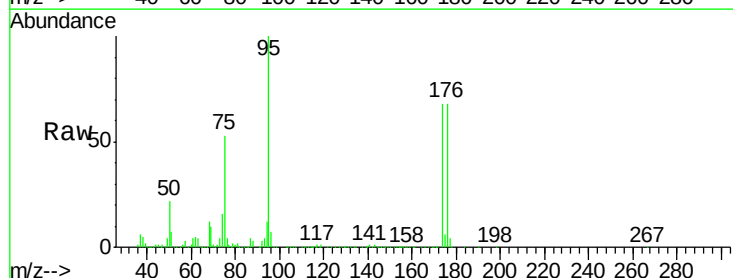
Instrument :
MSVOA_L
ClientSampleId :
C0P07

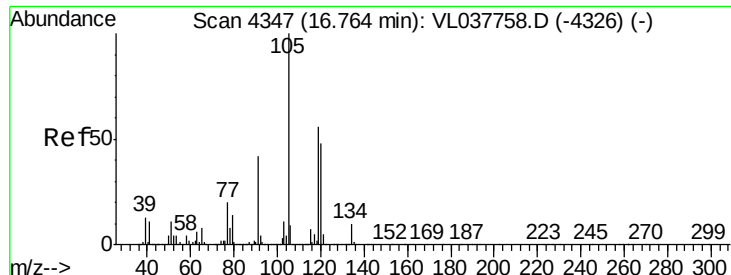
Tgt Ion: 91 Resp: 11399
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.932 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.03 min
Lab File: VL037782.D
Acq: 5 Oct 2021 20:38

Tgt Ion: 95 Resp: 2198822
Ion Ratio Lower Upper
95 100
174 75.2 57.8 86.6
175 5.8 4.7 7.1





#74

1,2,4-Trimethylbenzene

Concen: 0.021 ppbv

RT: 16.73 min Scan# 4337

Delta R.T. -0.03 min

Lab File: VL037782.D

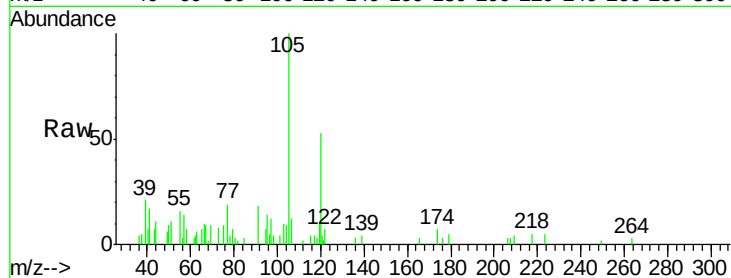
Acq: 5 Oct 2021 20:38

Instrument :

MSVOA_L

ClientSampleId :

C0P07



Tgt Ion:	105	Resp:	7770
Ion	Ratio	Lower	Upper
105	100		
120	55.2	38.4	57.6
91	22.4	34.2	51.2#
77	20.7	15.8	23.8

