

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110221\
 Data File : VL037973.D
 Acq On : 2 Nov 2021 18:27
 Operator : SY/AP
 Sample : M4425-01DL2 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL2

Quant Time: Nov 03 03:49:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 02 05:54:07 2021
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1333923	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3859379	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3362691	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2363860	9.67	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

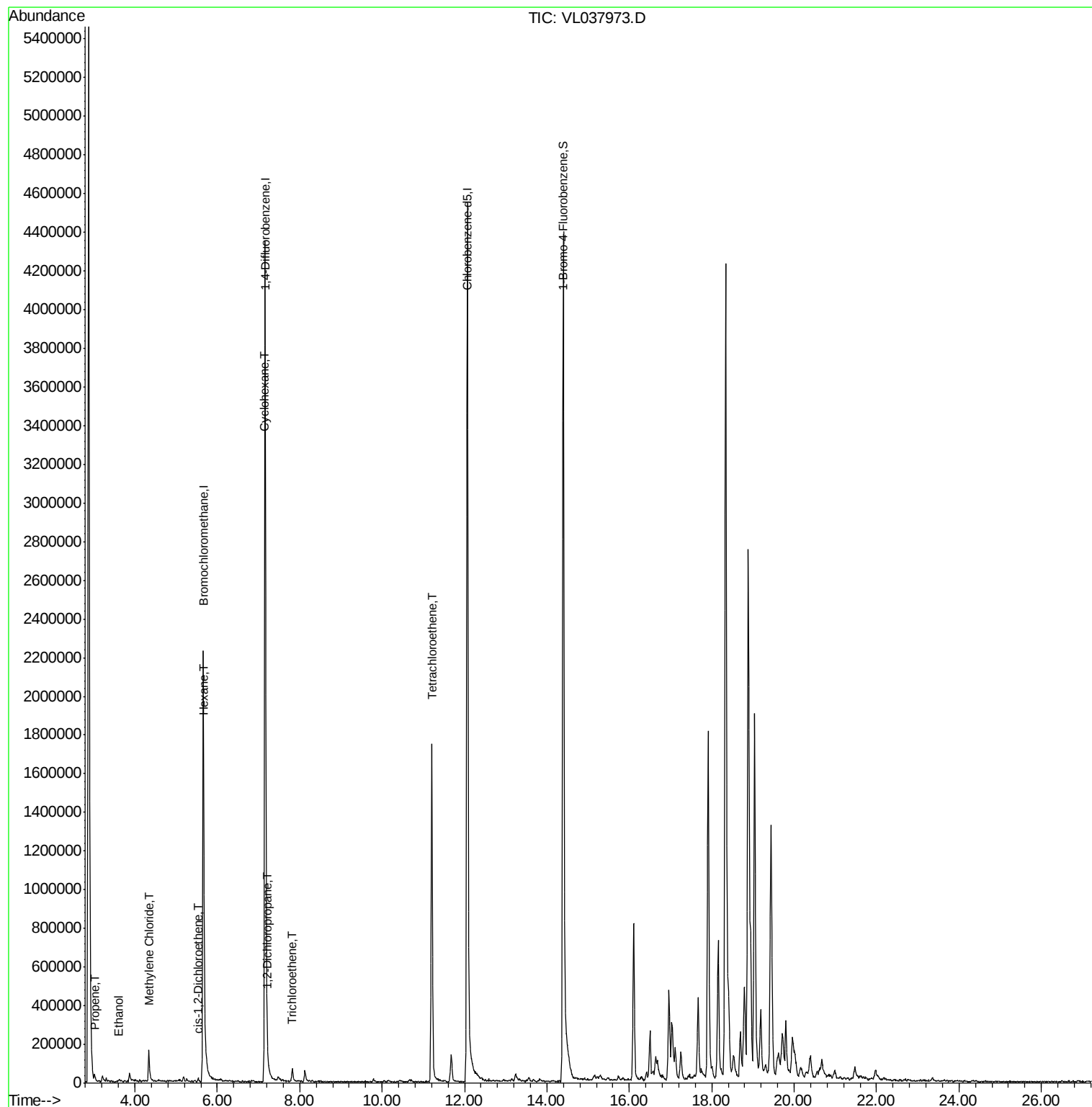
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	2747	0.031	ppbv #	14
13) Ethanol	3.60	45	1170	0.130	ppbv #	32
20) Methylene Chloride	4.33	84	34455	0.569	ppbv	93
26) Hexane	5.68	57	15244	0.098	ppbv #	32
30) Cyclohexane	7.14	84	8395	0.063	ppbv #	1
31) cis-1,2-Dichloroethene	5.54	61	4641	0.033	ppbv #	36
38) Trichloroethene	7.81	130	9594	0.074	ppbv #	75
39) 1,2-Dichloropropane	7.22	63	8928	0.075	ppbv #	28
52) Tetrachloroethene	11.21	164	475795	3.991	ppbv	94

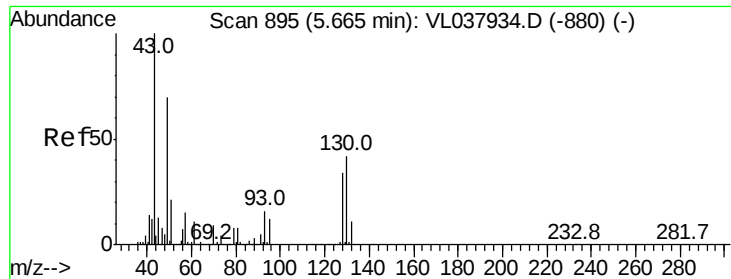
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1DL2

Acq: 2 Nov 2021 18:27

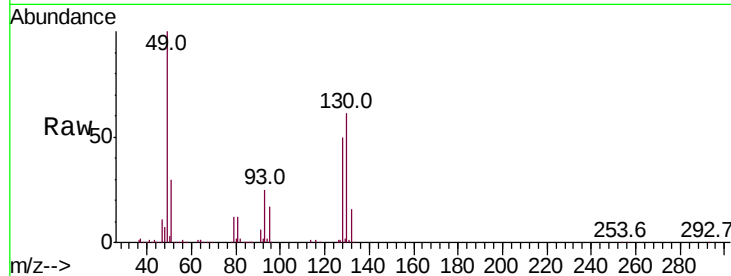
Tot Ion: 49 Resp: 1333923

Ion Ratio Lower Upper

49 100

128 52.6 27.0 81.0

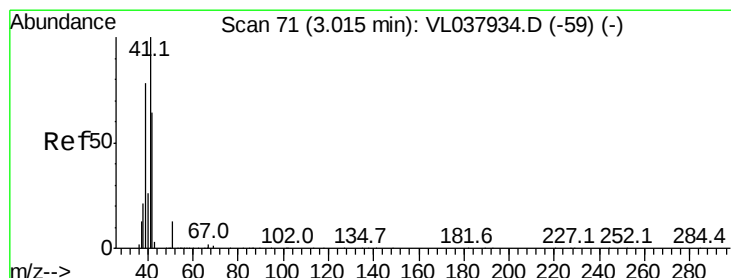
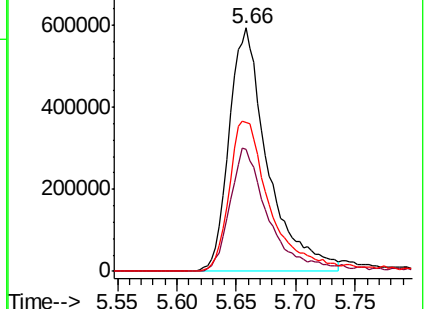
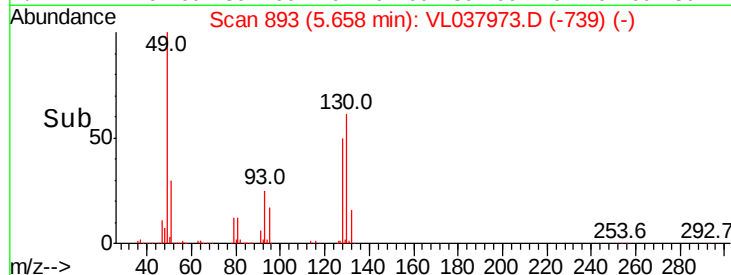
130 67.6 33.4 100.2



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



#9

Propene

Concen: 0.031 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.01 min

Lab File: VL037973.D

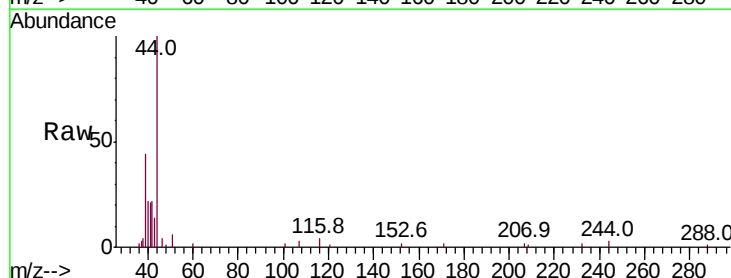
Acq: 2 Nov 2021 18:27

Tgt Ion: 41 Resp: 2747

Ion Ratio Lower Upper

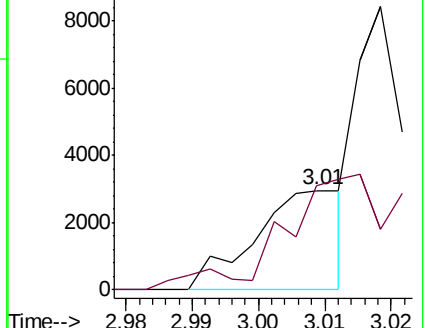
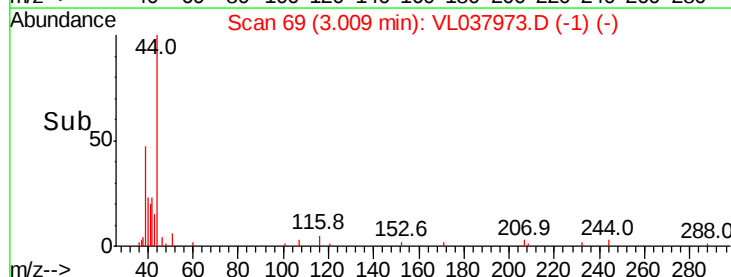
41 100

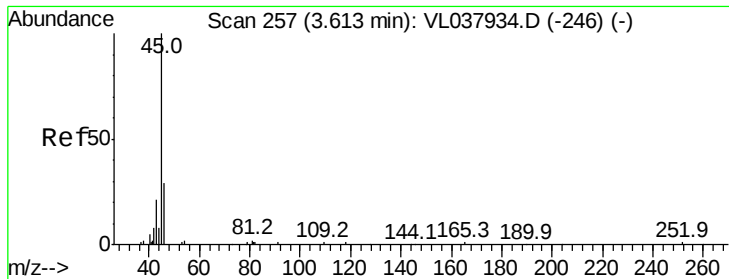
42 0.0 57.6 86.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

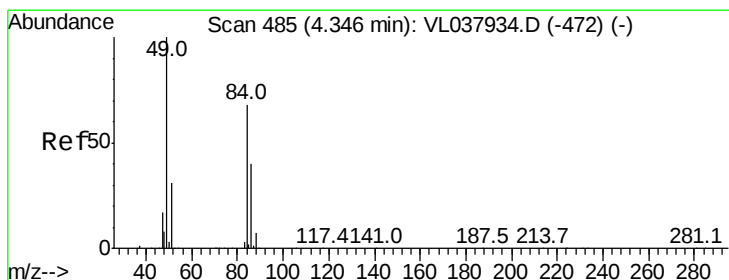
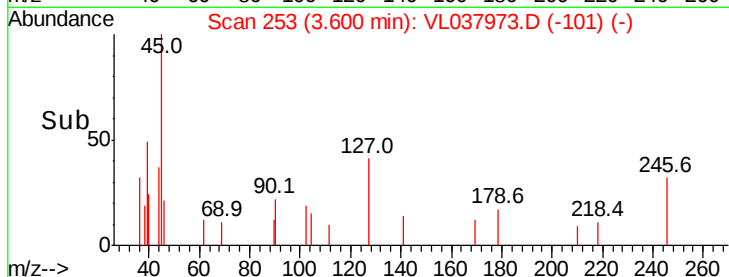
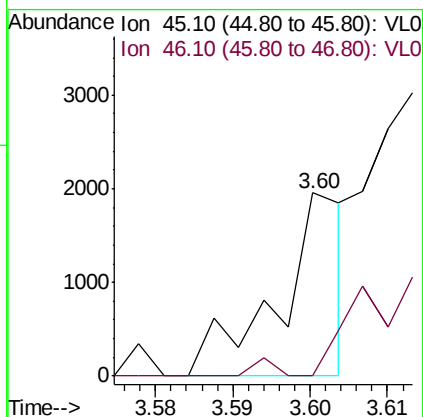
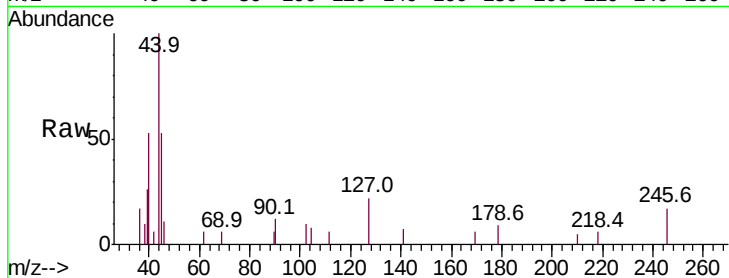
Ion 42.10 (41.80 to 42.80): VL0





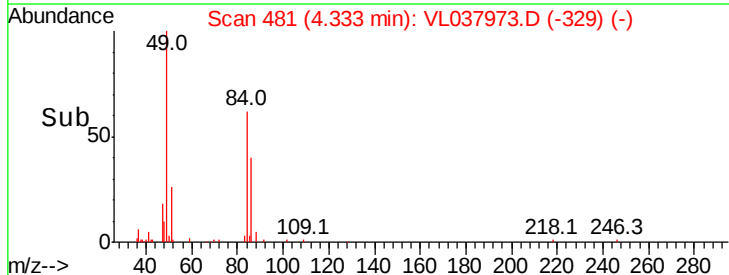
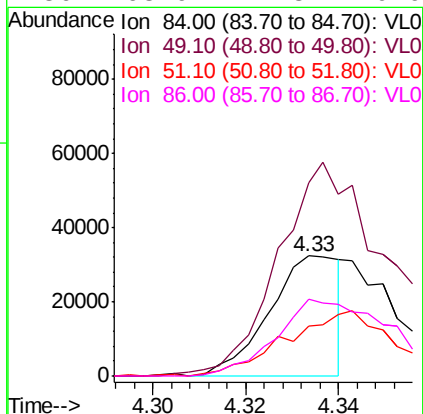
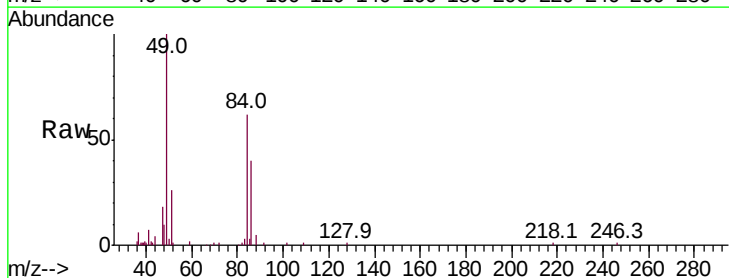
#13
Ethanol
Concen: 0.130 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Nov 2021 18:27

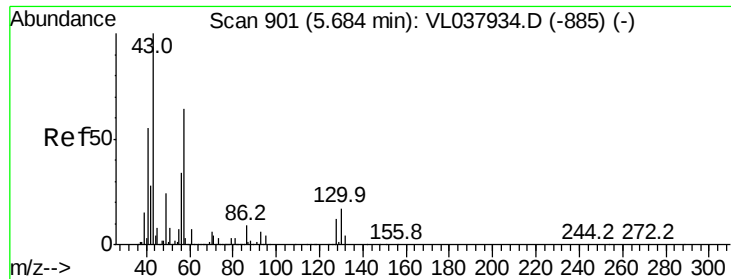
Tot Ion: 45 Resp: 1170
Ion Ratio Lower Upper
45 100
46 0.0 17.4 69.8#



#20
Methylene Chloride
Concen: 0.569 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL037973.D
Acq: 2 Nov 2021 18:27

Tgt Ion: 84 Resp: 34455
Ion Ratio Lower Upper
84 100
49 157.5 117.5 176.3
51 41.2 35.9 53.9
86 63.9 47.3 70.9





#26

Hexane

Concen: 0.098 ppbv

RT: 5.68

Delta R.T.

Lab File:

Acq: 2 Nov 2021 18:27

Instrument :

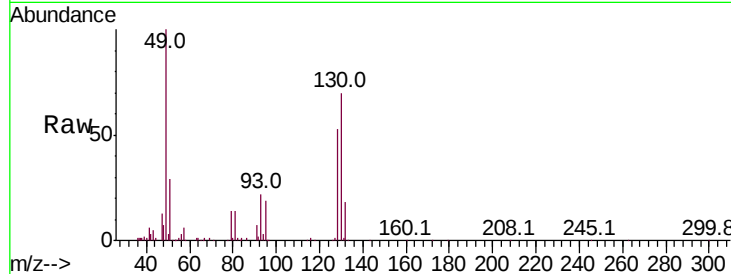
MSVOA_1

ClientSampleId :

SV1DL2

Tot Ion: 57 Resp: 15244

Ion	Ratio	Lower	Upper
57	100		
41	206.0	71.0	106.6#
43	155.5	173.0	259.6#
56	120.5	43.6	65.4#

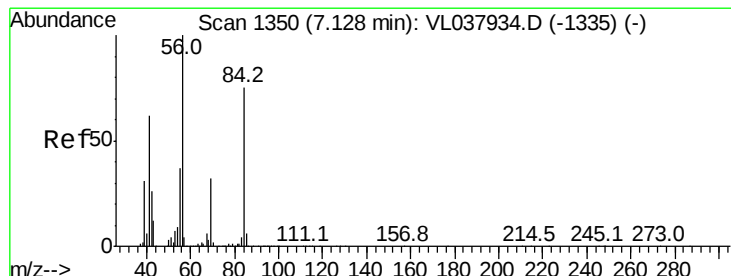
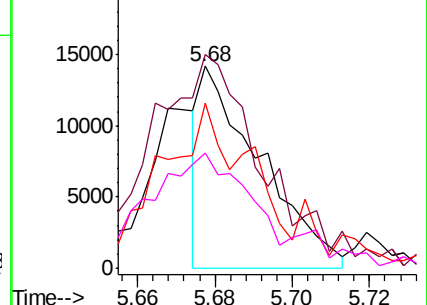
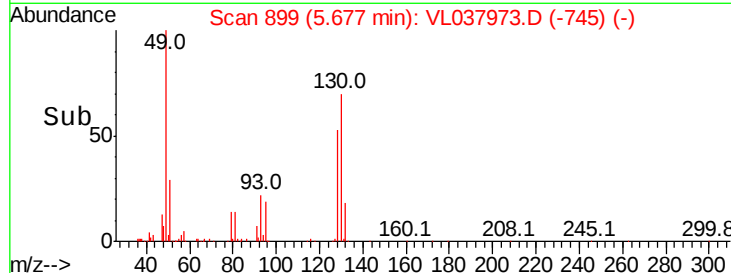


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#30

Cyclohexane

Concen: 0.063 ppbv

RT: 7.14 min Scan# 1354

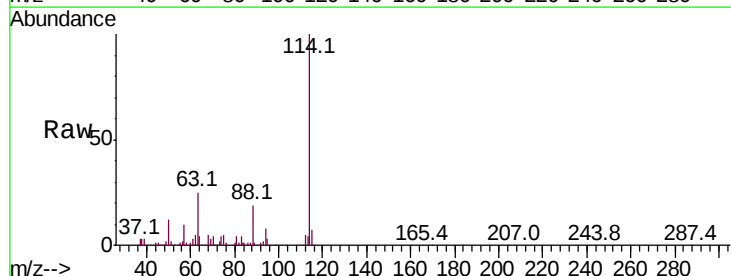
Delta R.T. 0.01 min

Lab File: VL037973.D

Acq: 2 Nov 2021 18:27

Tgt Ion: 84 Resp: 8395

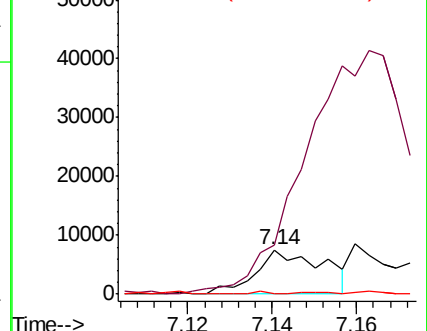
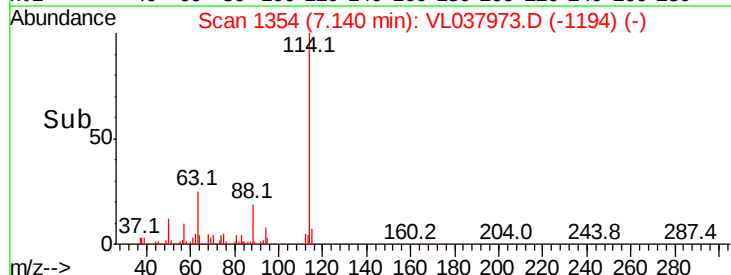
Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.0	171.0#
41	1.8	68.3	102.5#

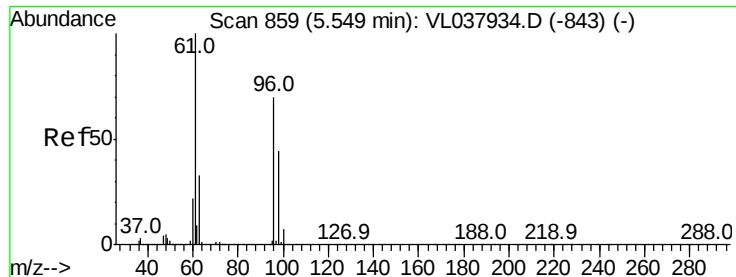


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.033 ppbv

RT: 5.54 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1DL2

Acq: 2 Nov 2021 18:27

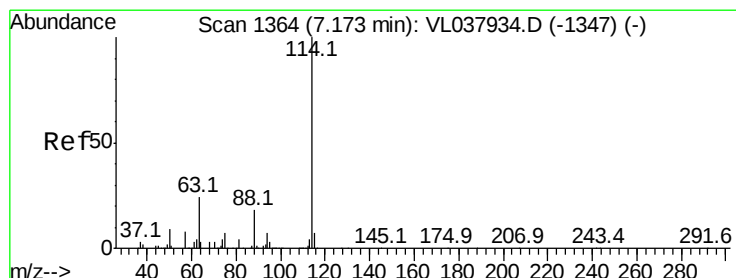
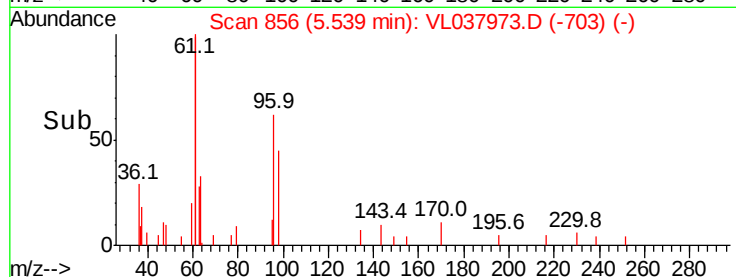
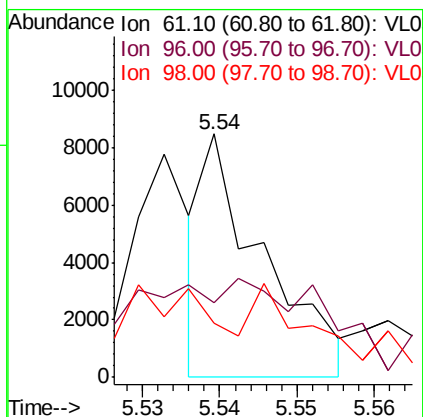
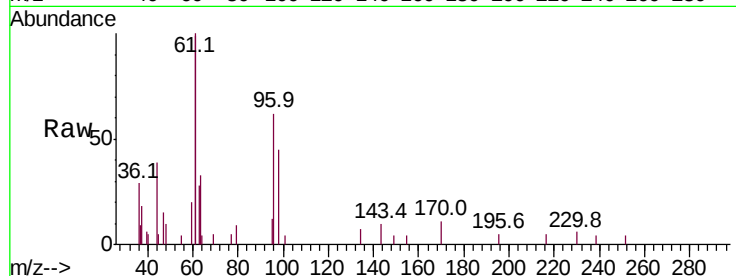
Tot Ion: 61 Resp: 4641

Ion Ratio Lower Upper

61 100

96 14.1 55.6 83.4#

98 6.1 34.9 52.3#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VL037973.D

Acq: 2 Nov 2021 18:27

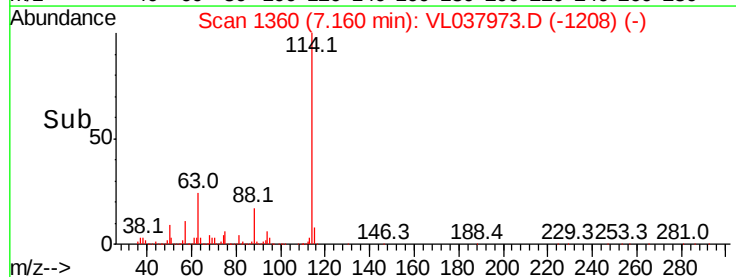
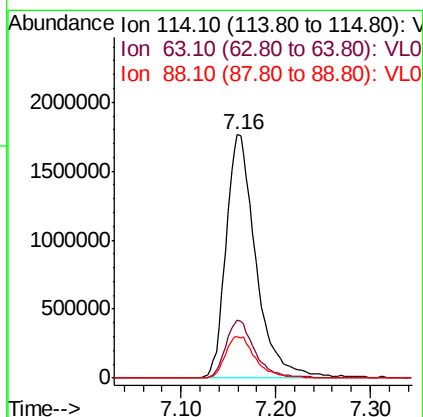
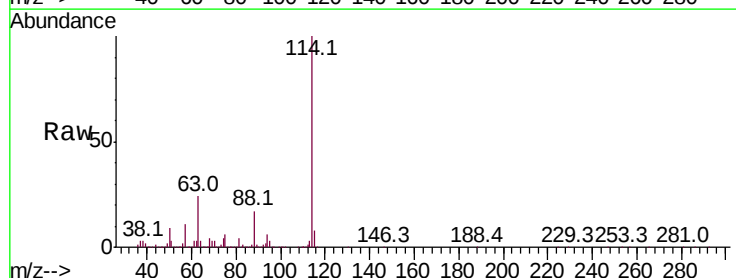
Tgt Ion: 114 Resp: 3859379

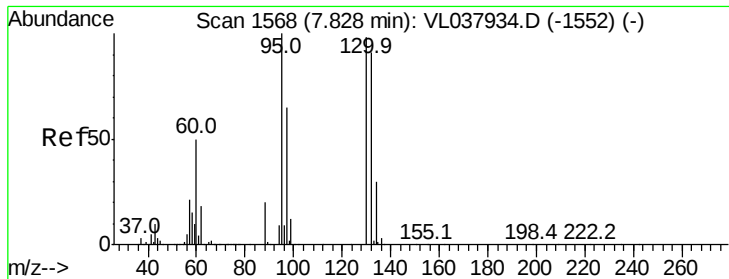
Ion Ratio Lower Upper

114 100

63 23.4 19.4 29.0

88 17.7 14.2 21.4





#38

Trichloroethene

Concen: 0.074 ppbv

RT: 7.81

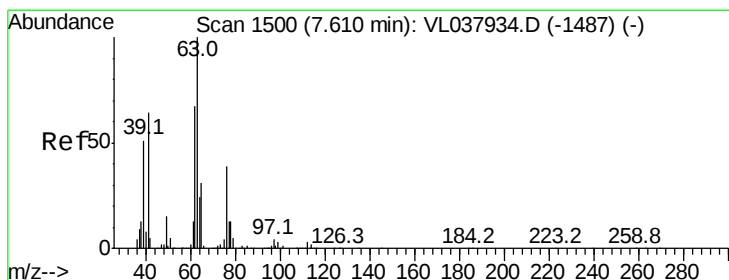
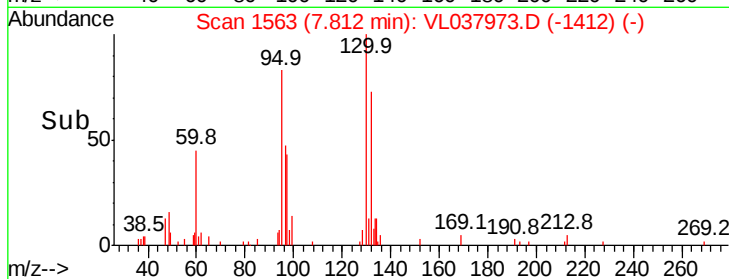
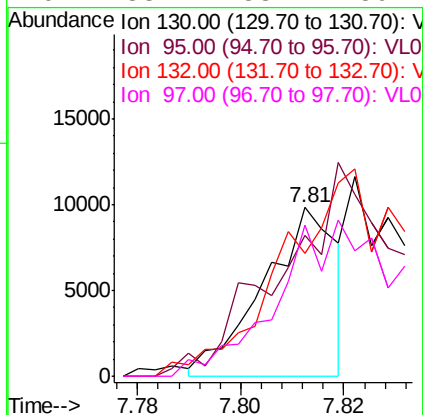
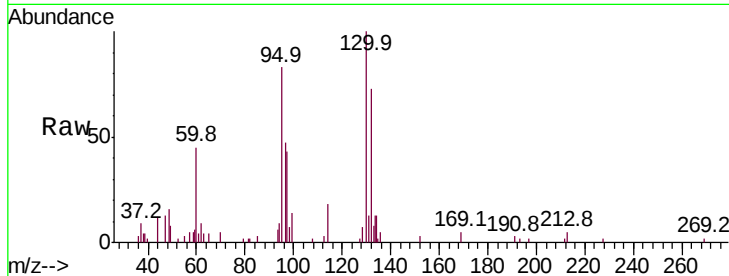
Delta R.T. MSVOA_L

Lab File: ClientSampleId: SV1DL2

Acq: 2 Nov 2021 18:27

Tot Ion:130 Resp: 9594

Ion	Ratio	Lower	Upper
130	100		
95	72.9	81.8	122.8#
132	69.4	74.2	111.2#
97	83.4	53.4	80.2#



#39

1,2-Dichloropropane

Concen: 0.075 ppbv

RT: 7.22 min Scan# 1379

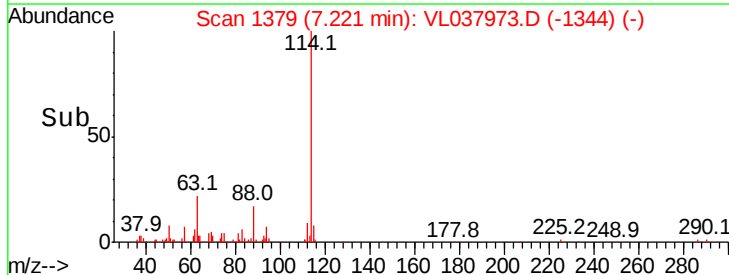
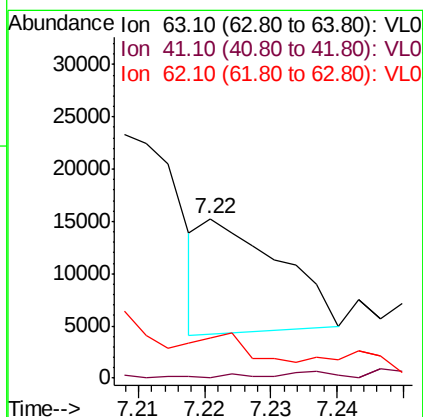
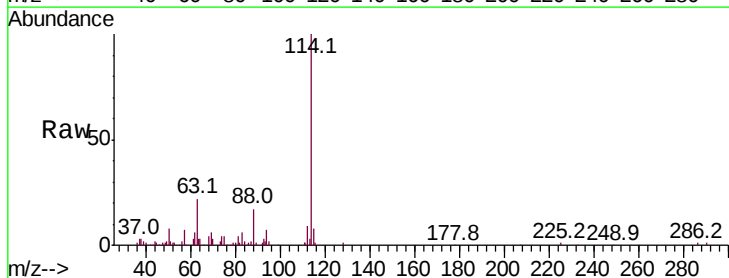
Delta R.T. -0.39 min

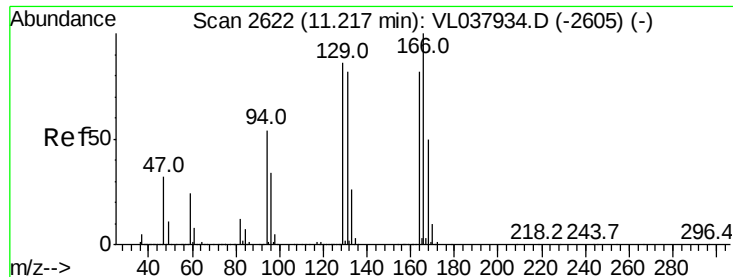
Lab File: VL037973.D

Acq: 2 Nov 2021 18:27

Tgt Ion: 63 Resp: 8928

Ion	Ratio	Lower	Upper
63	100		
41	0.0	51.6	77.4#
62	16.6	53.5	80.3#





#52

Tetrachloroethene

Concen: 3.991 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 2 Nov 2021 18:27

Tot Ion:164 Resp: 475795

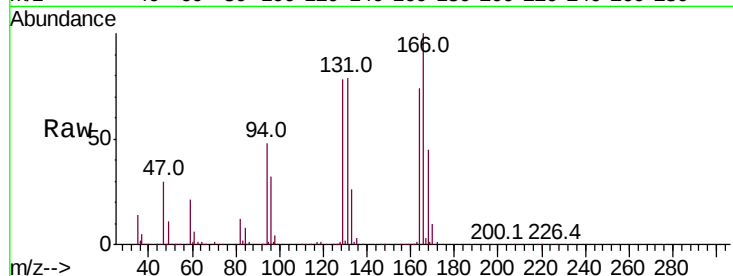
Ion Ratio Lower Upper

164 100

166 134.2 97.6 146.4

129 105.1 84.2 126.2

131 106.5 79.6 119.4



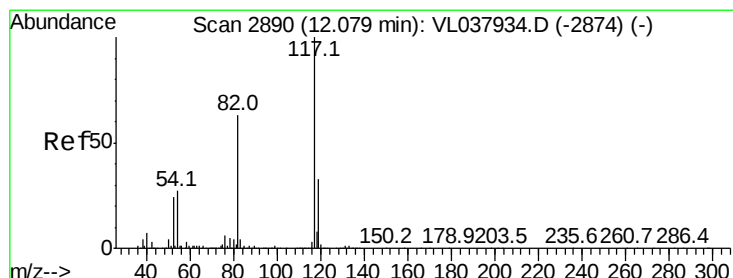
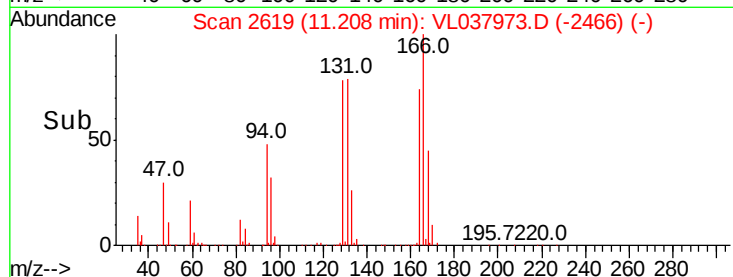
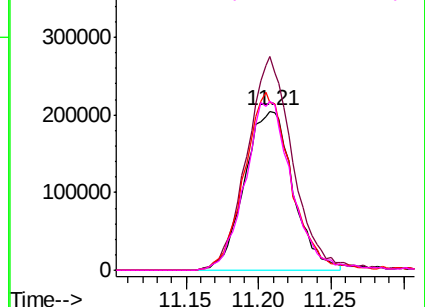
Abundance

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: 12.07 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL037973.D

Acq: 2 Nov 2021 18:27

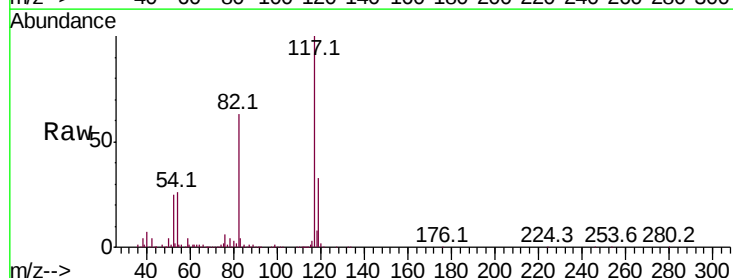
Tgt Ion:117 Resp: 3362691

Ion Ratio Lower Upper

117 100

82 64.9 51.0 76.6

119 33.2 26.9 40.3

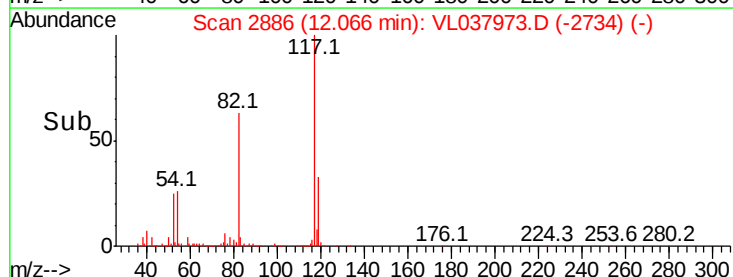
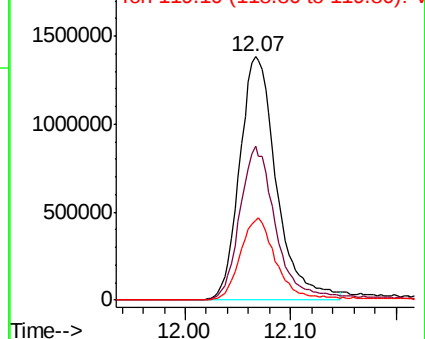


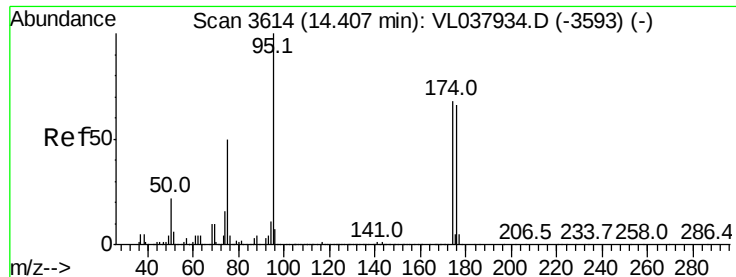
Abundance

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





#68

1-Bromo-4-Fluorobenzene

Concen: 9.671 ppbv

RT: 14.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV1DL2

Acq: 2 Nov 2021 18:27

Tot Ion: 95 Resp: 2363860

Ion Ratio Lower Upper

95 100

174 76.5 58.3 87.5

175 5.9 4.6 6.8

