

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032222\
 Data File : VL038706.D
 Acq On : 23 Mar 2022 5:38
 Operator : SY/AP
 Sample : N2048-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P93DL

Quant Time: Mar 23 07:07:59 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	803913	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	2227528	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1988310	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1458253	9.57	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

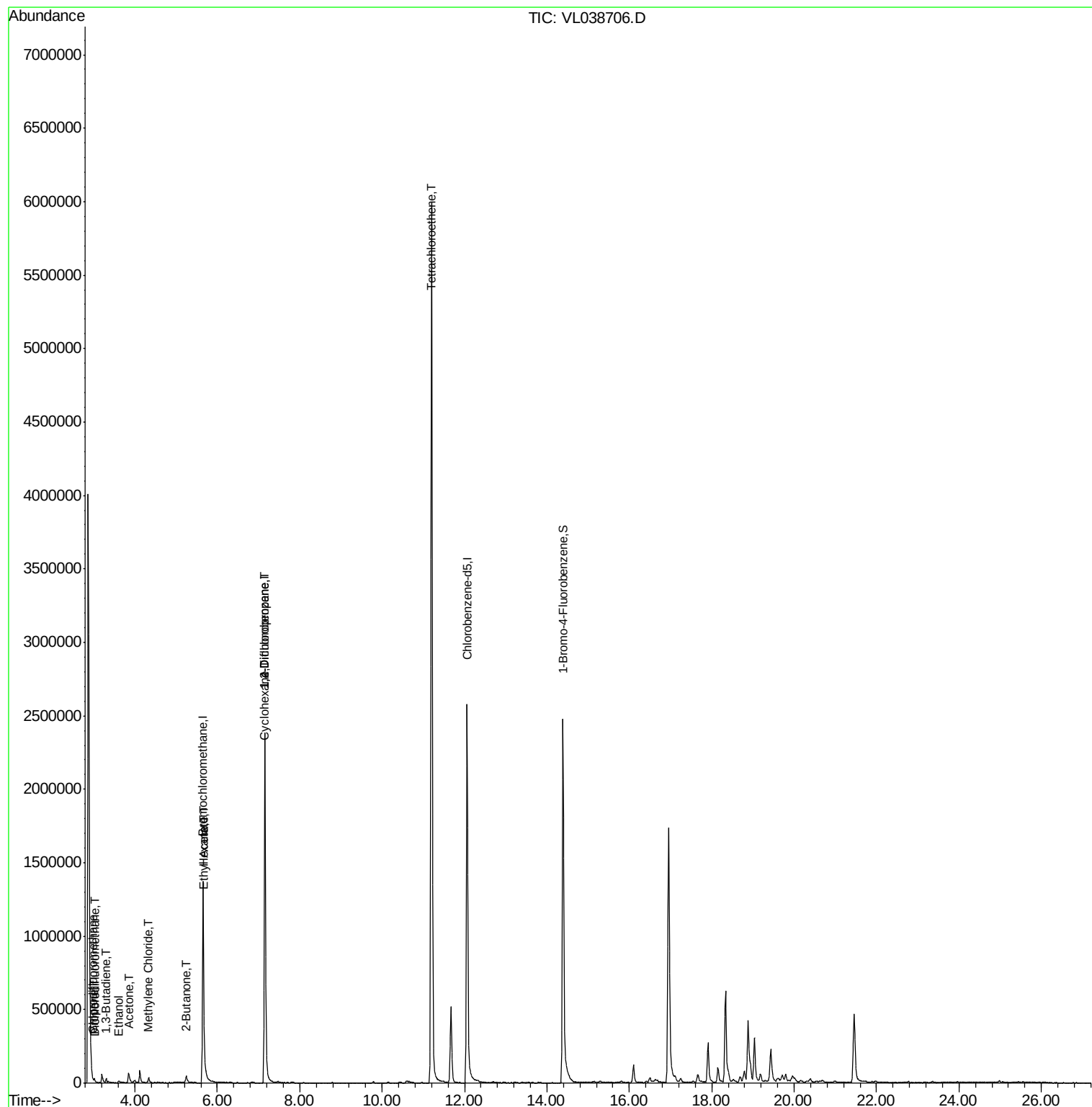
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	4459	0.04	ppbv #	86
3) Chlorodifluoromethane	2.98	51	5690	0.07	ppbv	98
9) Propene	3.01	41	3882	0.09	ppbv #	14
13) Ethanol	3.60	45	10082	2.23	ppbv #	32
15) Acetone	3.85	43	91626	1.32	ppbv	90
16) 1,3-Butadiene	3.30	39	8927	0.23	ppbv #	11
20) Methylene Chloride	4.33	84	12890	0.44	ppbv #	83
25) Ethyl Acetate	5.67	43	8111	0.05	ppbv #	83
26) Hexane	5.67	57	12973	0.17	ppbv #	42
30) Cyclohexane	7.14	84	1468	0.02	ppbv #	1
34) 2-Butanone	5.24	43	66573	0.76	ppbv #	84
39) 1,2-Dichloropropane	7.15	63	500883	7.45	ppbv #	27
52) Tetrachloroethene	11.20	164	1888313	30.01	ppbv	96

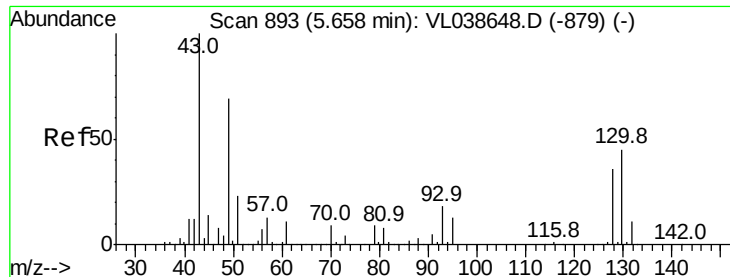
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_L
ClientSampleId :
C0P93DL

Quant Time: Mar 23 07:07:59 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 23 Mar 2022 5:38

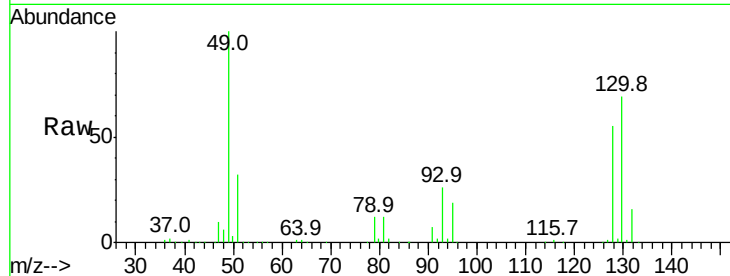
Tgt Ion: 49 Resp: 803913

Ion Ratio Lower Upper

49 100

128 55.9 26.2 78.6

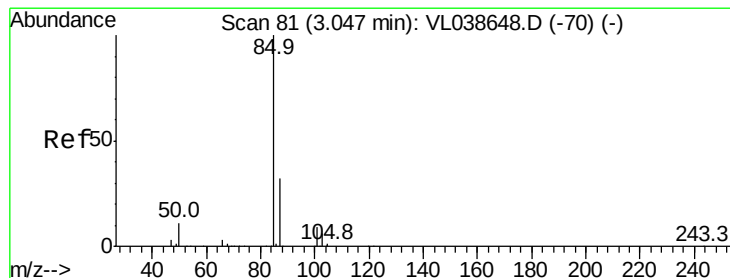
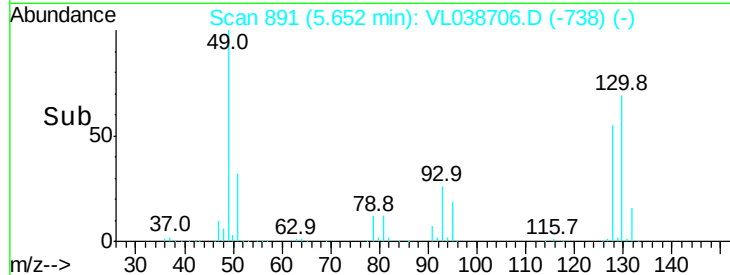
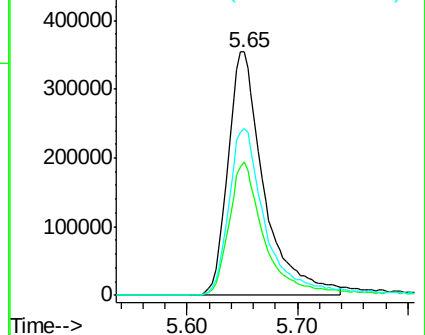
130 72.2 33.7 101.1



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: 0.04 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL038706.D

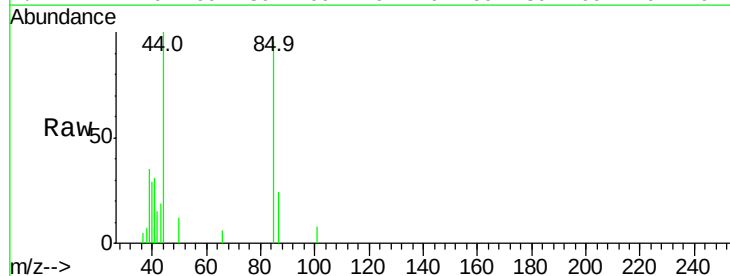
Acq: 23 Mar 2022 5:38

Tgt Ion: 85 Resp: 4459

Ion Ratio Lower Upper

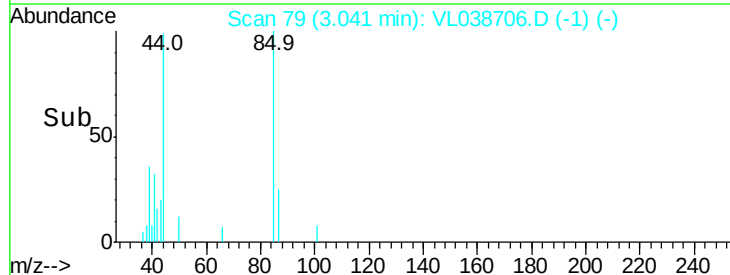
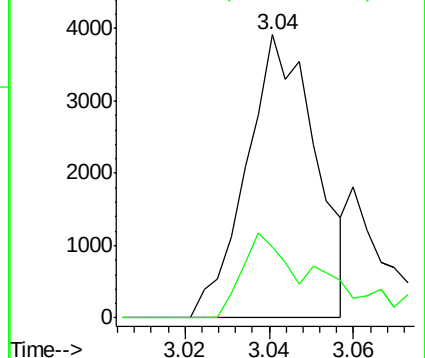
85 100

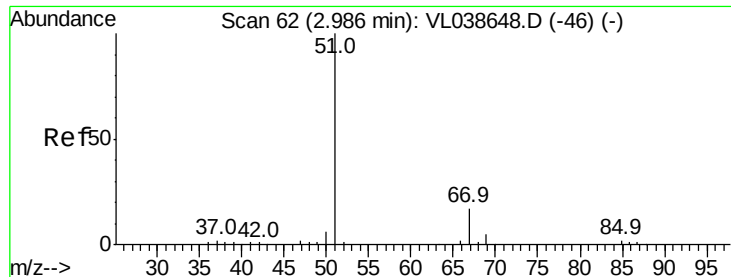
87 24.9 26.0 39.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.07 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

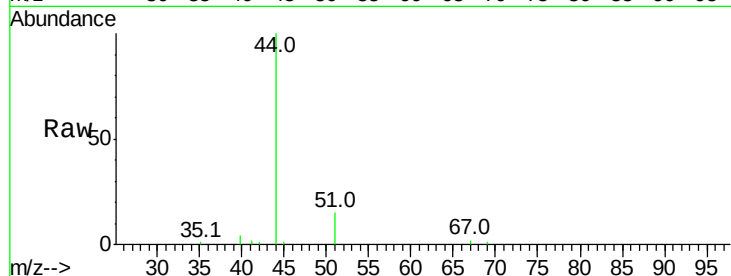
Acq: 23 Mar 2022 5:38

Tgt Ion: 51 Resp: 5690

Ion Ratio Lower Upper

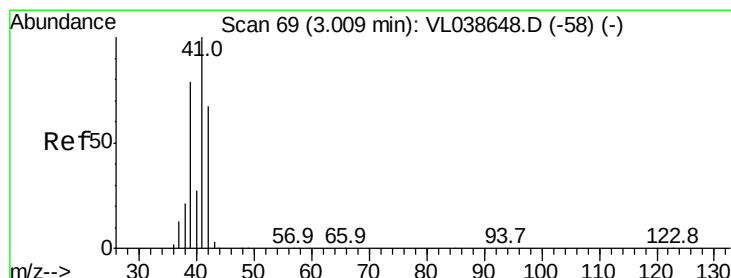
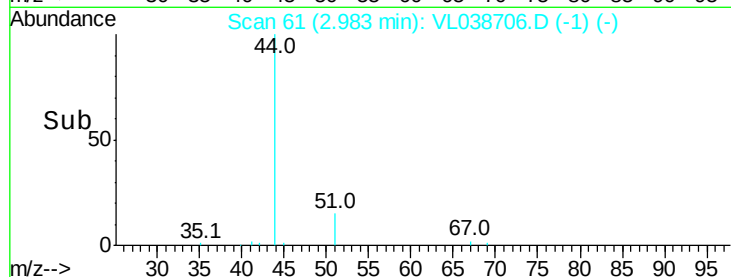
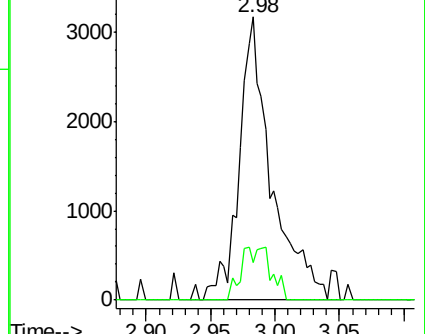
51 100

67 16.6 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.09 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL038706.D

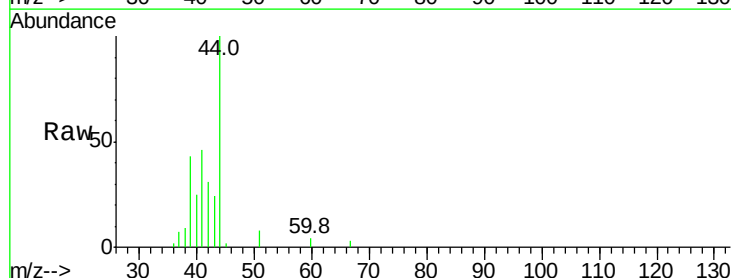
Acq: 23 Mar 2022 5:38

Tgt Ion: 41 Resp: 3882

Ion Ratio Lower Upper

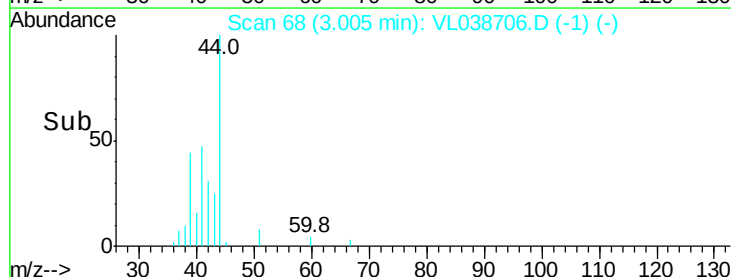
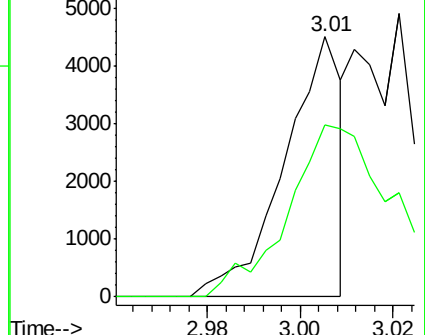
41 100

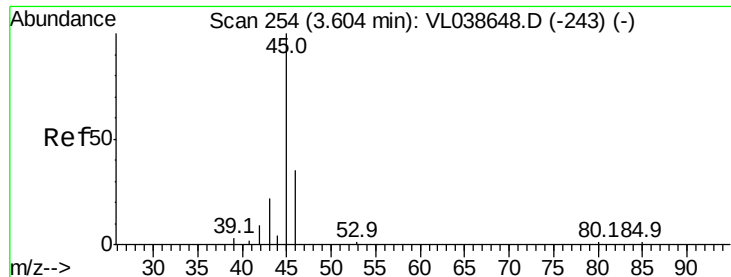
42 141.2 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

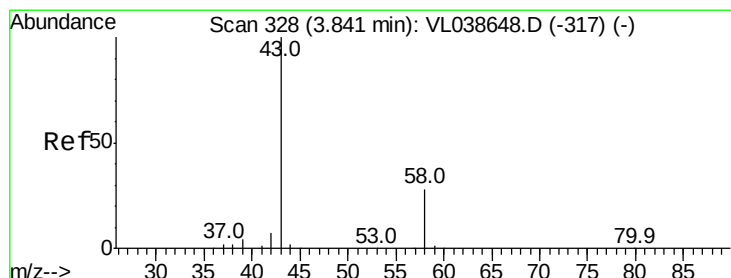
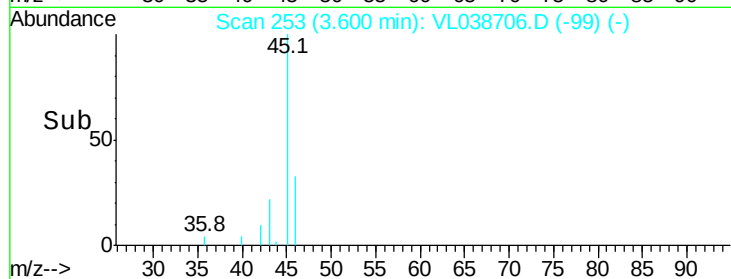
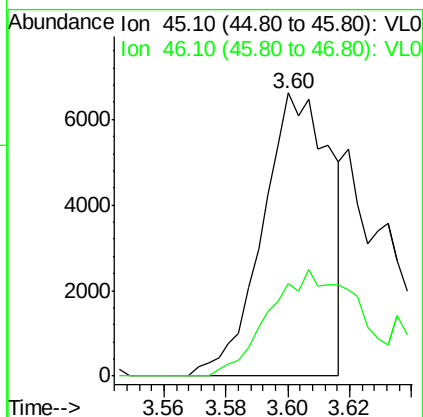
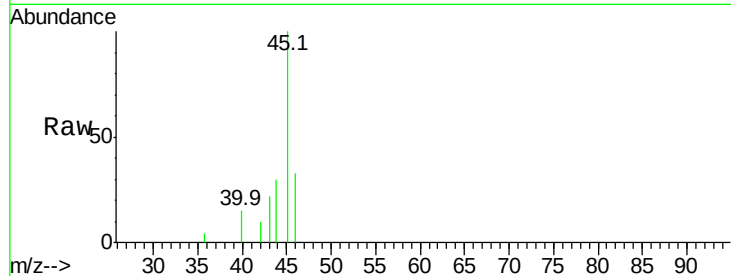
Ion 42.10 (41.80 to 42.80): VL0





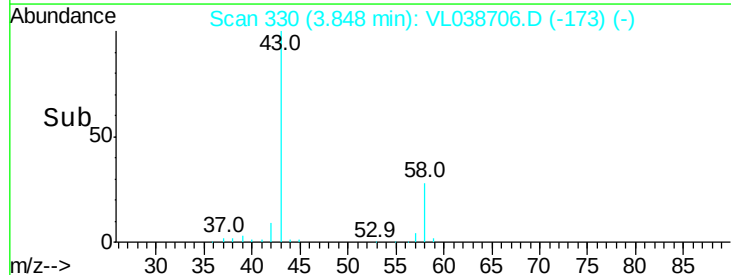
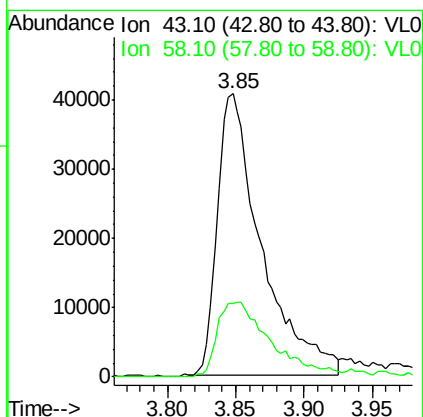
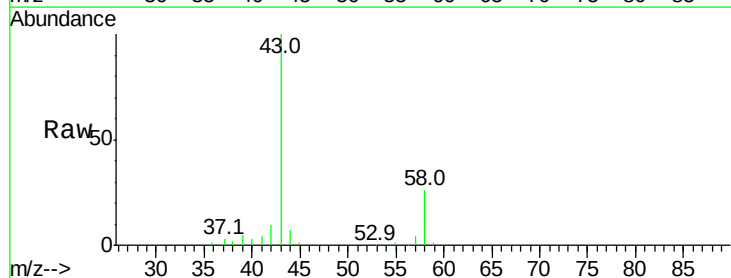
#13
Ethanol
Concen: 2.23 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP93DL
Acq: 23 Mar 2022 5:38

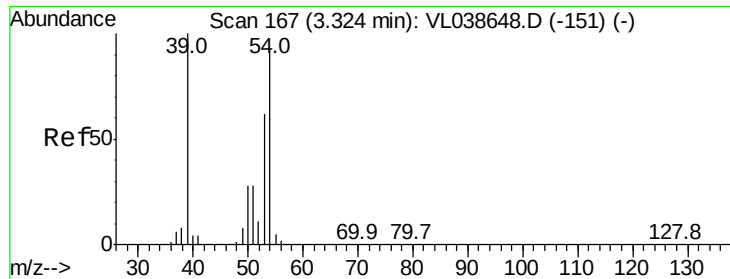
Tgt Ion: 45 Resp: 10082
Ion Ratio Lower Upper
45 100
46 78.7 15.1 60.5#



#15
Acetone
Concen: 1.32 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.01 min
Lab File: VL038706.D
Acq: 23 Mar 2022 5:38

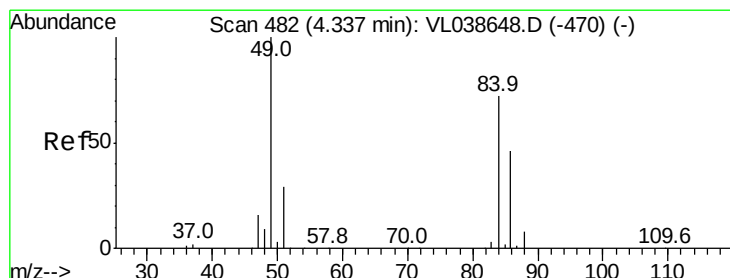
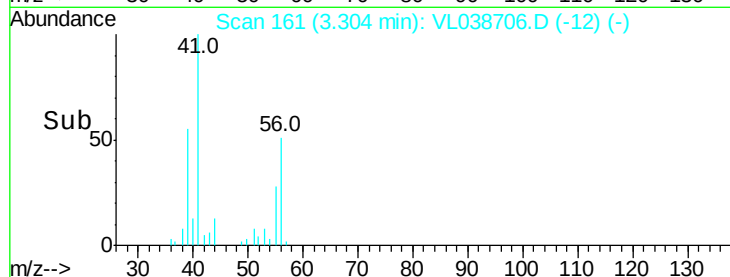
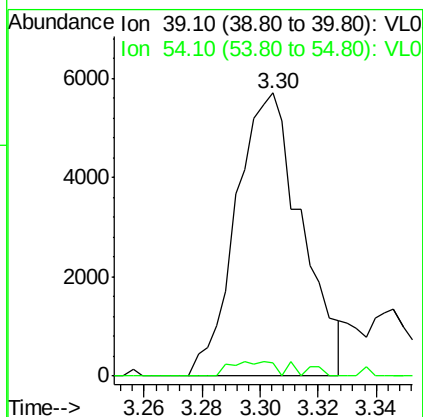
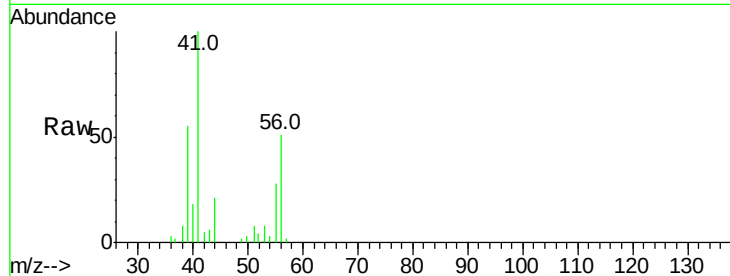
Tgt Ion: 43 Resp: 91626
Ion Ratio Lower Upper
43 100
58 34.4 23.3 34.9





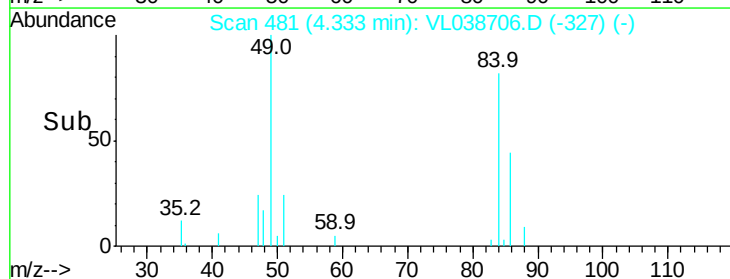
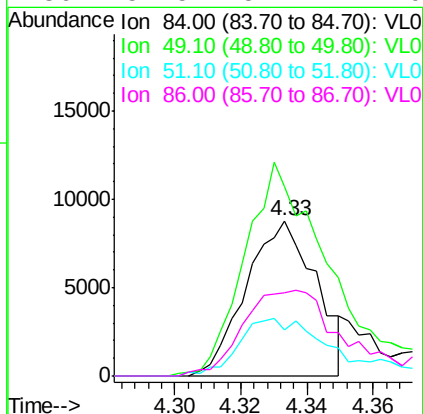
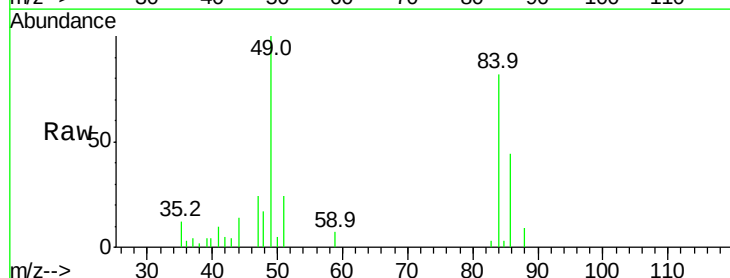
#16
1,3-Butadiene
Concen: 0.23 ppbv
RT: 3.30
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP93DL
Acq: 23 Mar 2022 5:38

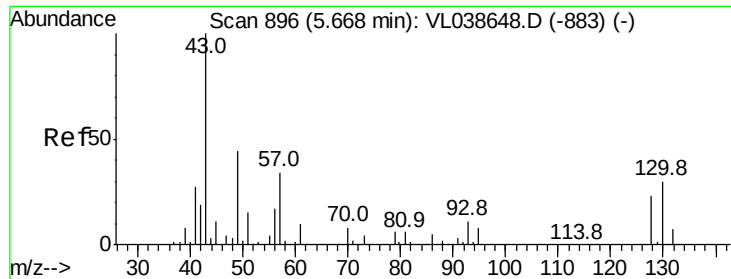
Tgt Ion: 39 Resp: 8927
Ion Ratio Lower Upper
39 100
54 4.9 69.1 103.7#



#20
Methylene Chloride
Concen: 0.44 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.00 min
Lab File: VL038706.D
Acq: 23 Mar 2022 5:38

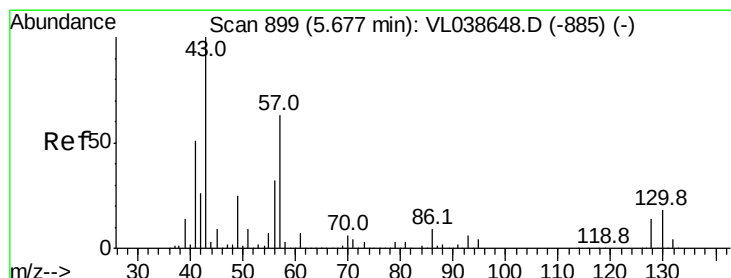
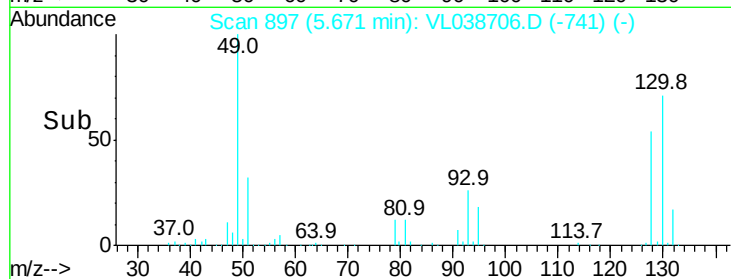
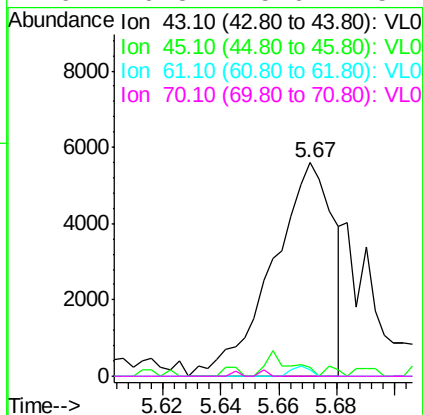
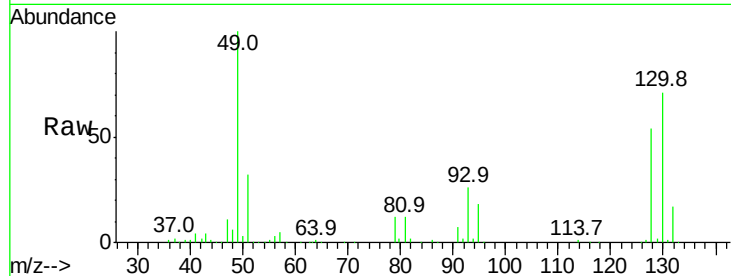
Tgt Ion: 84 Resp: 12890
Ion Ratio Lower Upper
84 100
49 120.0 111.2 166.8
51 26.4 32.8 49.2#
86 51.5 51.4 77.0





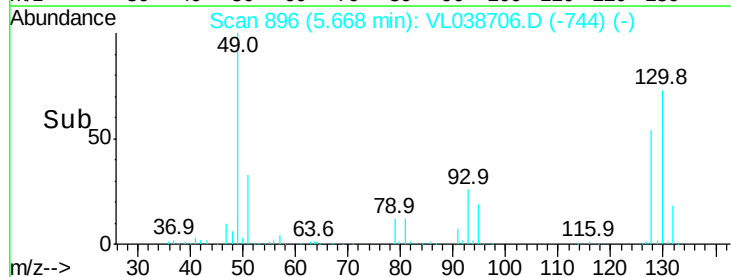
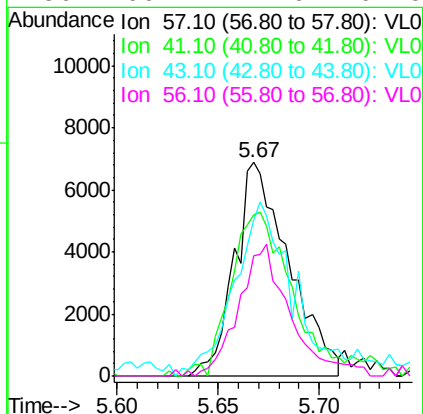
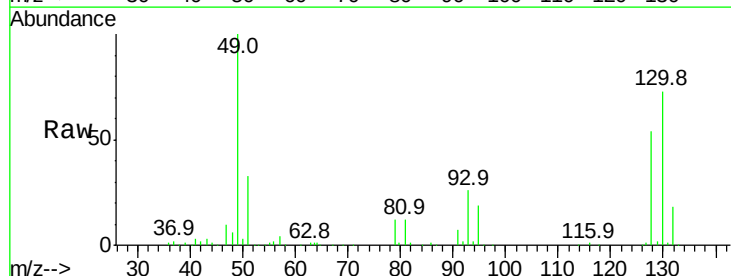
#25
Ethyl Acetate
Concen: 0.05 ppbv
RT: 5.67
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COP93DL
Acq: 23 Mar 2022 5:38

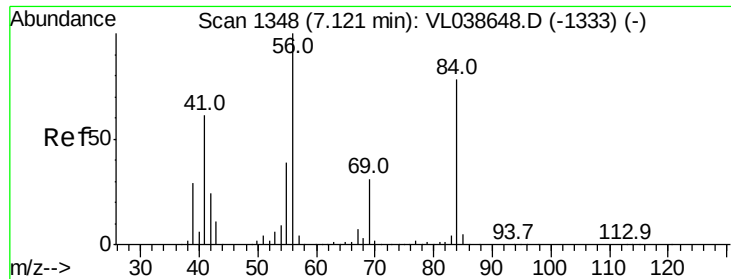
Tgt Ion:	43	Resp:	8111
Ion	Ratio	Lower	Upper
43	100		
45	7.0	8.2	12.4#
61	1.4	8.3	12.5#
70	0.8	5.6	8.4#



#26
Hexane
Concen: 0.17 ppbv
RT: 5.67 min Scan# 896
Delta R.T.: -0.01 min
Lab File: VL038706.D
Acq: 23 Mar 2022 5:38

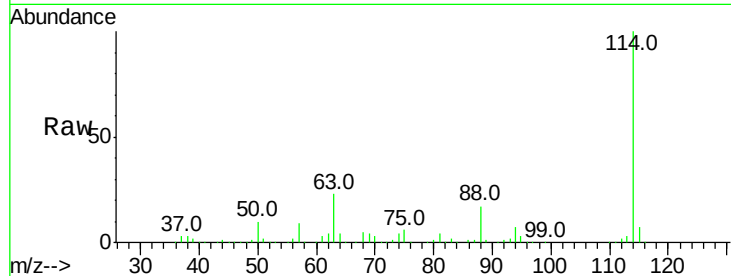
Tgt Ion:	57	Resp:	12973
Ion	Ratio	Lower	Upper
57	100		
41	91.3	67.0	100.4
43	84.8	184.2	276.2#
56	60.2	42.6	64.0



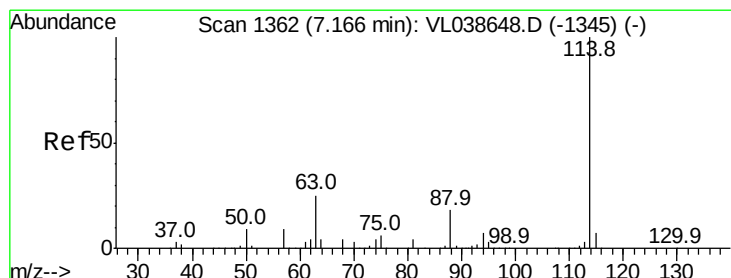
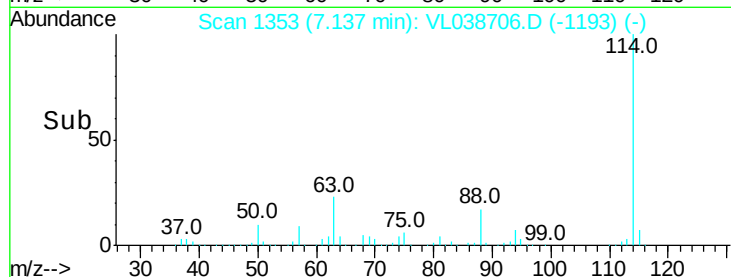
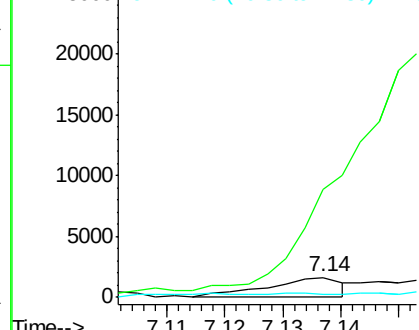


#30
Cyclohexane
Concen: 0.02 ppbv
RT: 7.14
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 5:38

Tgt Ion: 84 Resp: 1468
Ion Ratio Lower Upper
84 100
56 0.0 108.2 162.4#
41 0.0 61.8 92.6#

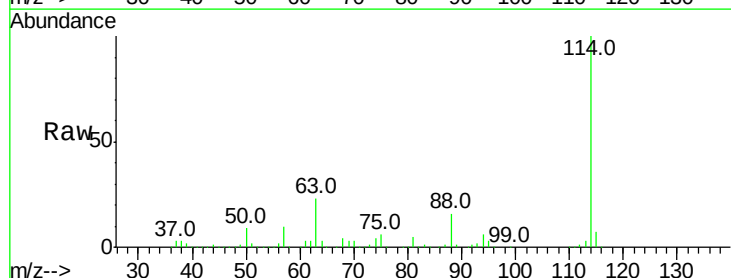


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

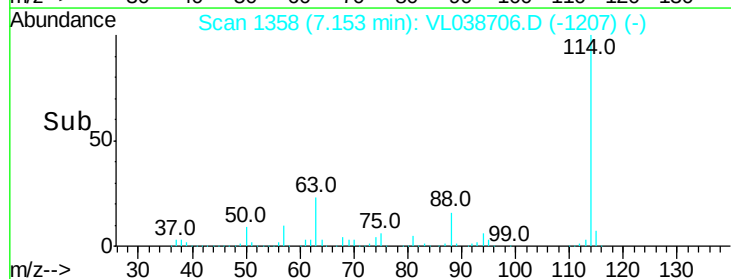
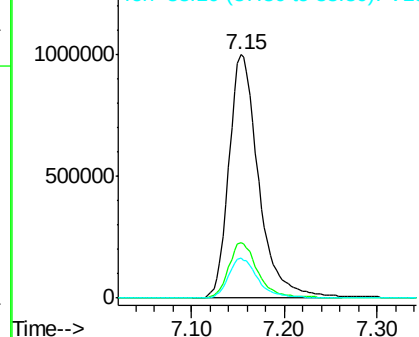


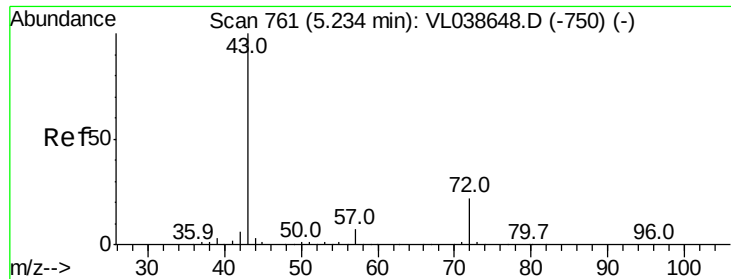
#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL038706.D
Acq: 23 Mar 2022 5:38

Tgt Ion: 114 Resp: 2227528
Ion Ratio Lower Upper
114 100
63 22.7 19.4 29.0
88 16.5 13.9 20.9



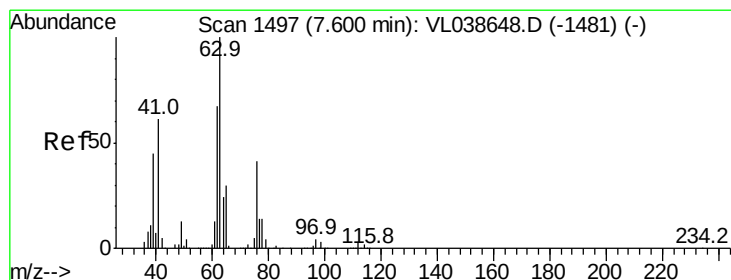
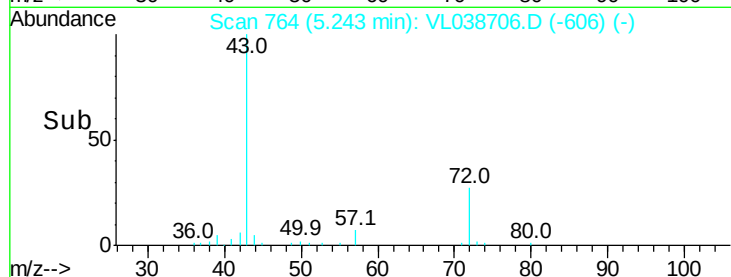
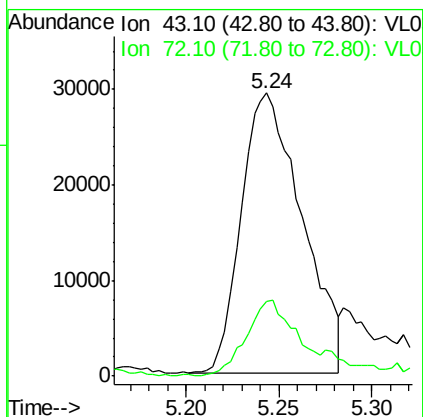
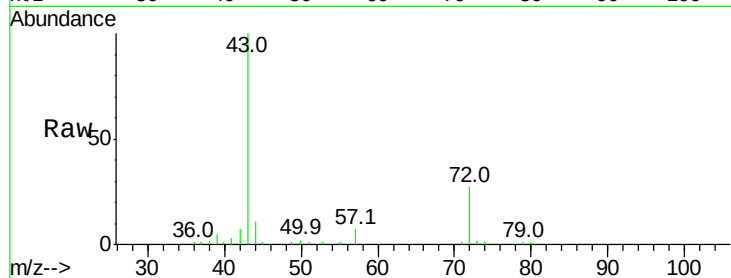
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





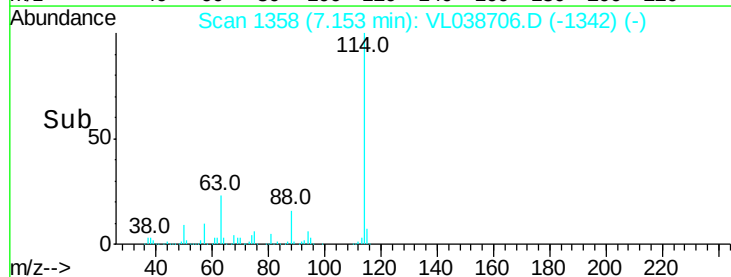
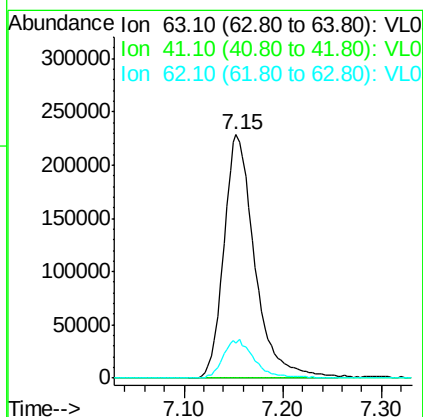
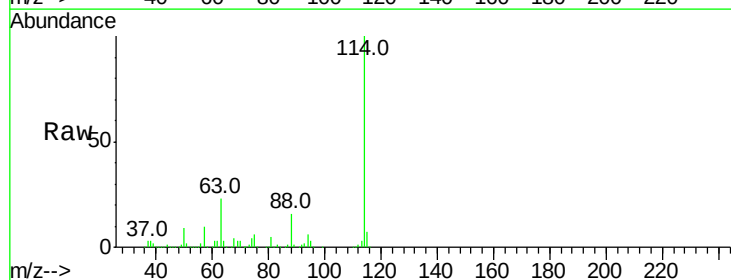
#34
2-Butanone
Concen: 0.76 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 5:38

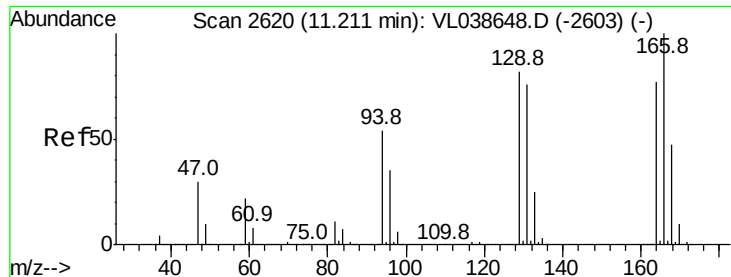
Tgt Ion: 43 Resp: 66573
Ion Ratio Lower Upper
43 100
72 30.0 17.8 26.8#



#39
1,2-Dichloropropane
Concen: 7.45 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.45 min
Lab File: VL038706.D
Acq: 23 Mar 2022 5:38

Tgt Ion: 63 Resp: 500883
Ion Ratio Lower Upper
63 100
41 0.2 49.0 73.6#
62 14.3 53.9 80.9#





#52

Tetrachloroethene

Concen: 30.01 ppbv

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 5:38

Tgt Ion:164 Resp: 1888313

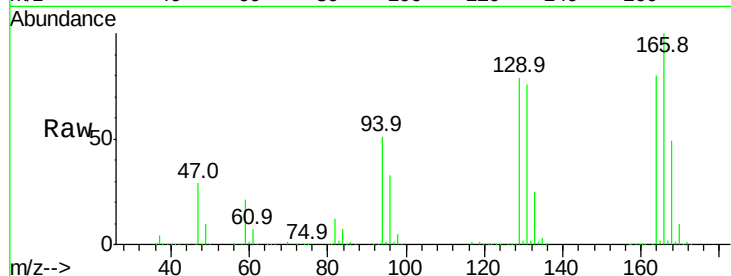
Ion Ratio Lower Upper

164 100

166 125.4 103.3 154.9

129 99.5 85.2 127.8

131 94.9 78.3 117.5

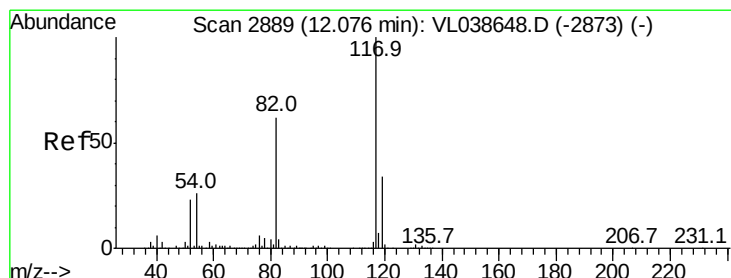
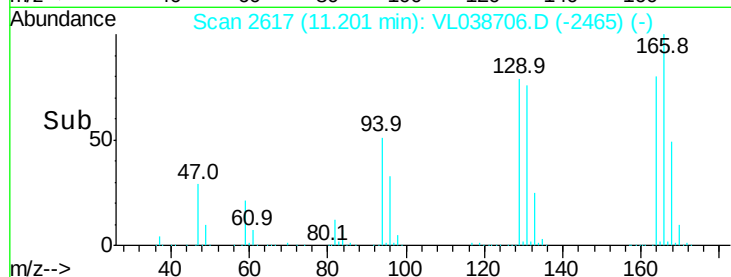
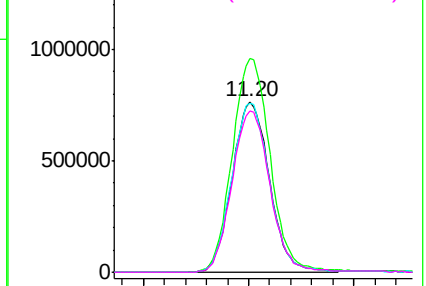


Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.00 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL038706.D

Acq: 23 Mar 2022 5:38

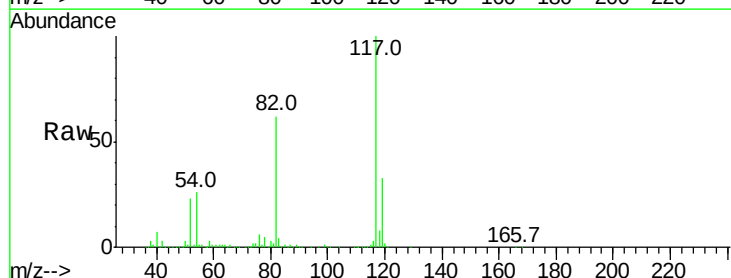
Tgt Ion:117 Resp: 1988310

Ion Ratio Lower Upper

117 100

82 62.5 51.6 77.4

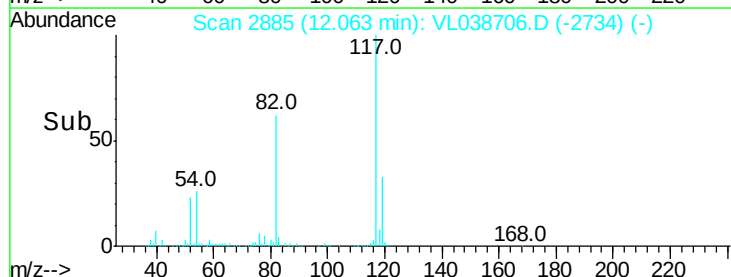
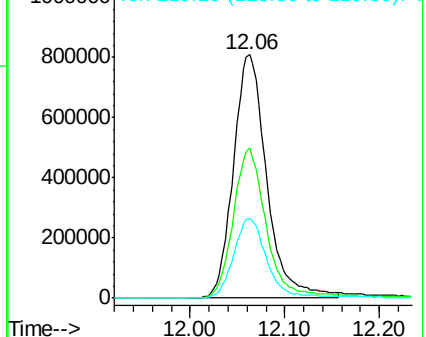
119 33.8 26.9 40.3

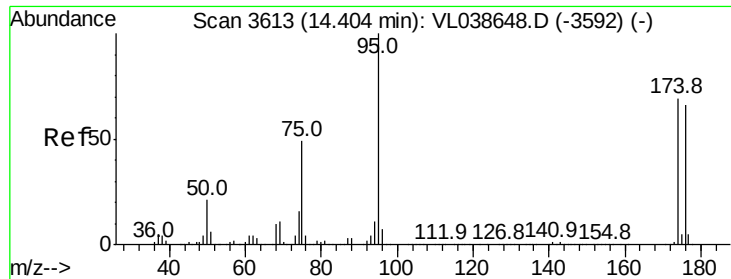


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.57 ppbv

RT: 14.39

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 5:38

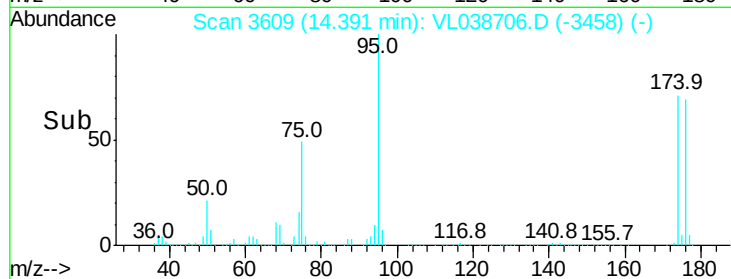
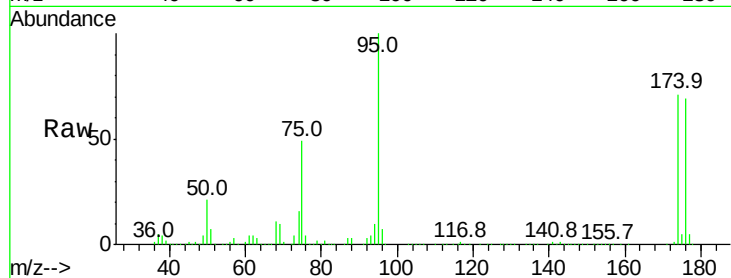
Tgt Ion: 95 Resp: 1458253

Ion Ratio Lower Upper

95 100

174 73.7 56.1 84.1

175 5.4 4.2 6.2



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

