

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031422\
 Data File : VL038600.D
 Acq On : 14 Mar 2022 17:38
 Operator : SY/AP
 Sample : N1645-14 0.03 LOQ
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2022

Quant Time: Mar 15 01:39:16 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Mar 08 21:18:44 2022
 QLast Update : Tue Mar 08 21:18:44 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	807105	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.15	114	1986507	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.05	117	1751202	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	1304001	9.79	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

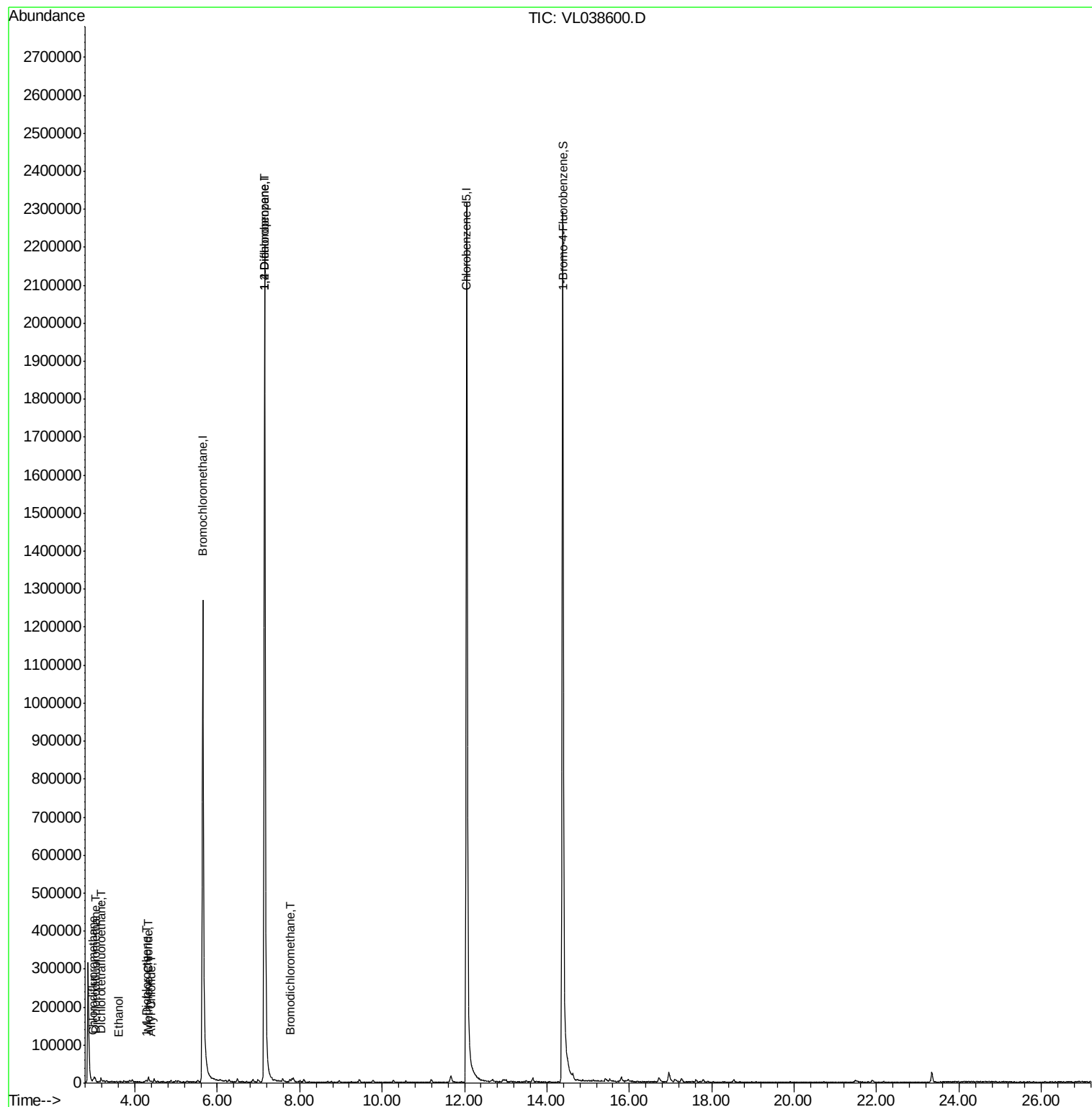
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	6192	0.05	ppbv	92
3) Chlorodifluoromethane	2.98	51	5882	0.04	ppbv	95
8) Dichlorotetrafluoroethane	3.18	85	4398	0.04	ppbv	92
13) Ethanol	3.61	45	213	0.04	ppbv #	57
18) 1,1-Dichloroethene	4.27	96	1263	0.03	ppbv #	59
20) Methylene Chloride	4.32	84	2014	0.06	ppbv	89
21) Allyl Chloride	4.40	41	2190	0.04	ppbv #	72
39) 1,2-Dichloropropane	7.15	63	468777	6.80	ppbv #	27
42) Bromodichloromethane	7.77	83	4894	0.04	ppbv #	71

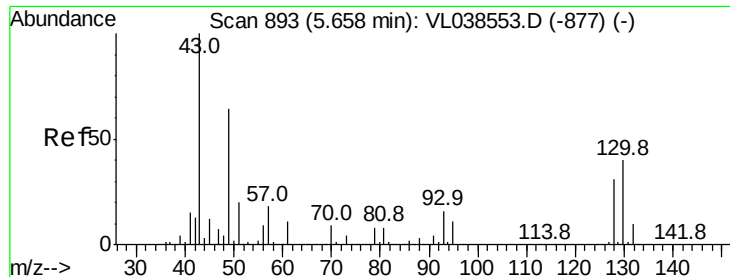
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 08 21:18:44 2022
QLast Update : Tue Mar 08 21:18:44 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Mar 2022 17:30

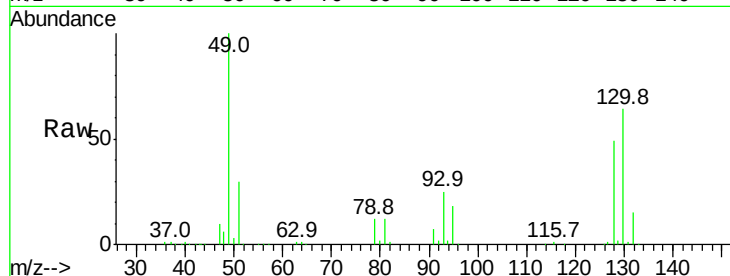
Tgt Ion: 49 Resp: 807105

Ion Ratio Lower Upper

49 100

128 50.5 26.4 79.2

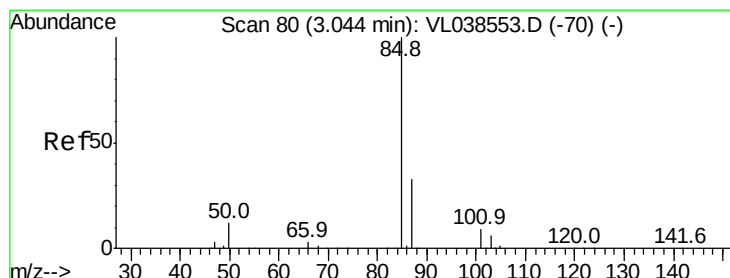
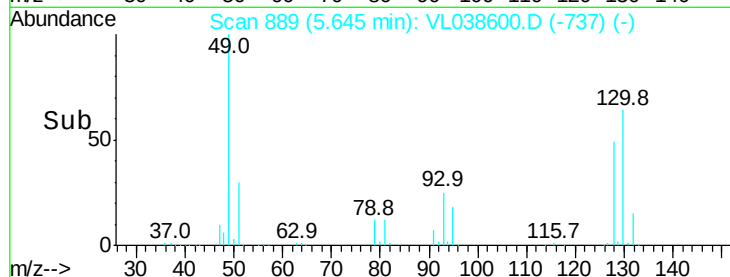
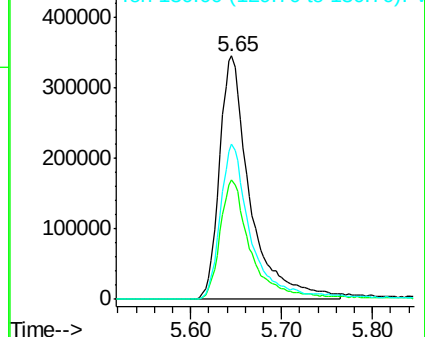
130 66.5 33.0 98.9



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: 0.05 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL038600.D

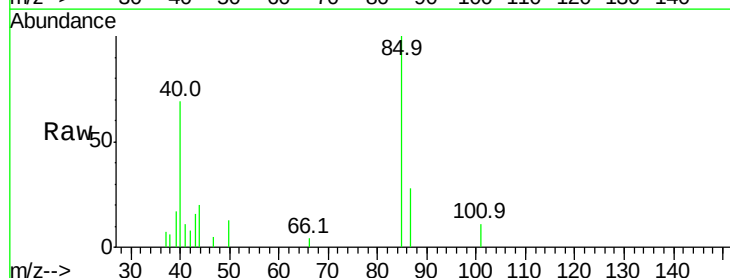
Acq: 14 Mar 2022 17:38

Tgt Ion: 85 Resp: 6192

Ion Ratio Lower Upper

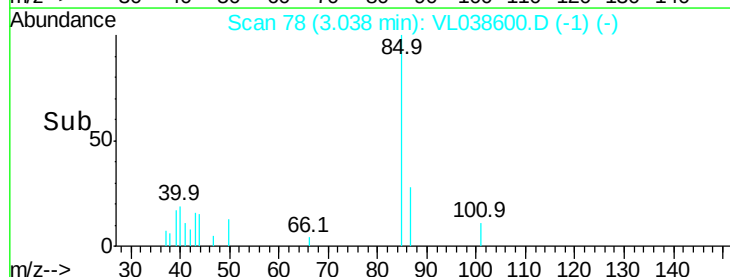
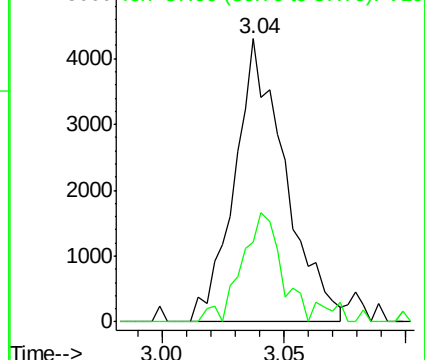
85 100

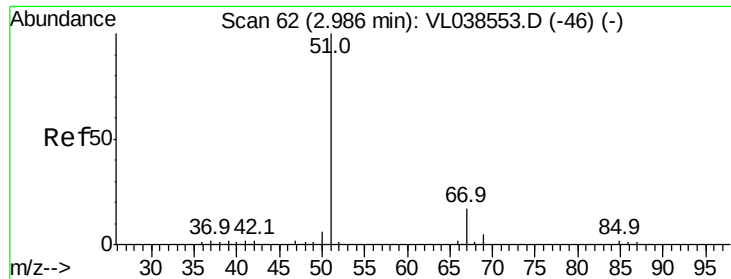
87 28.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.04 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: LOQ-AIR-02-QT1-2022

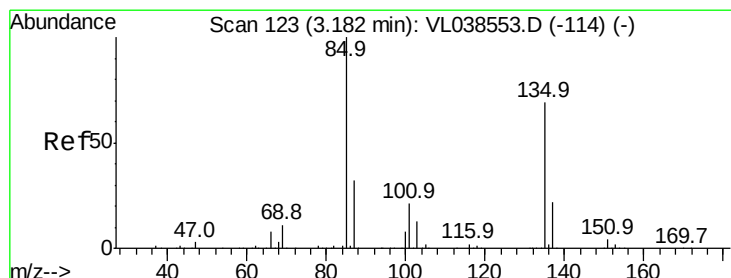
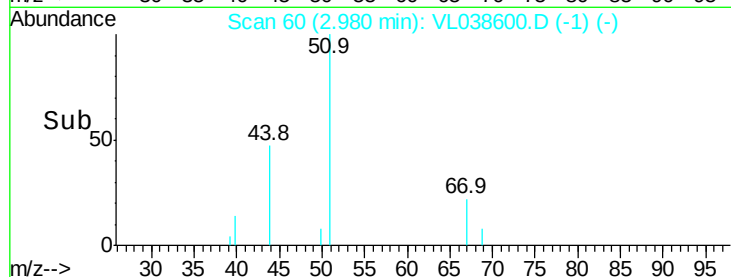
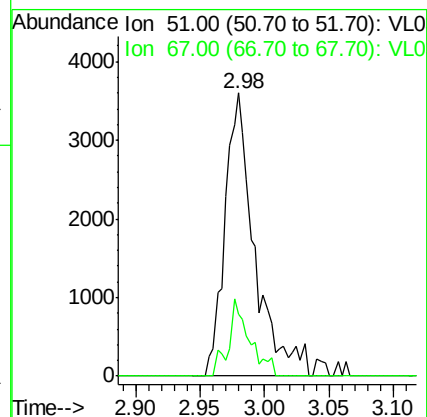
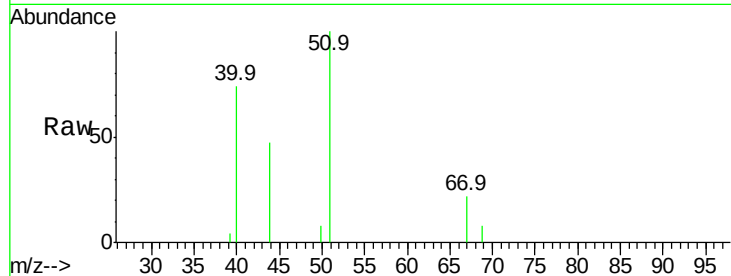
Acq: 14 Mar 2022 17:30

Tgt Ion: 51 Resp: 5882

Ion Ratio Lower Upper

51 100

67 19.0 13.6 20.4



#8

Dichlorotetrafluoroethane

Concen: 0.04 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.00 min

Lab File: VL038600.D

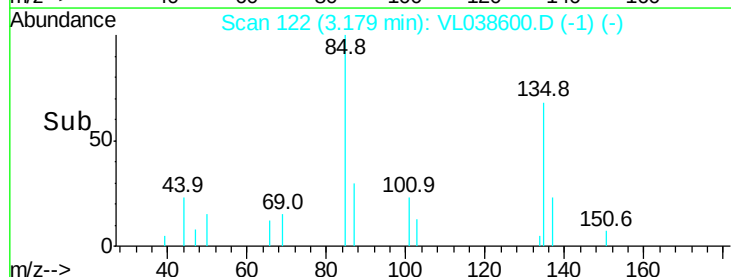
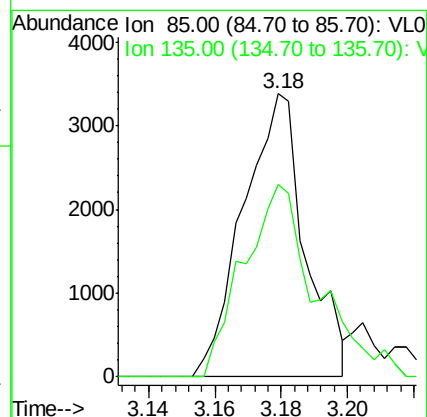
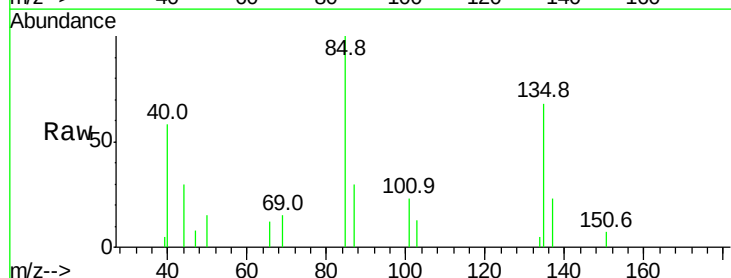
Acq: 14 Mar 2022 17:38

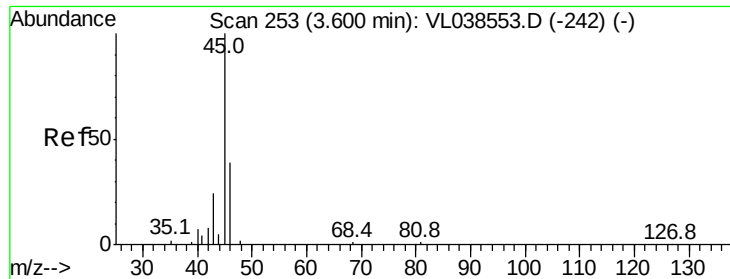
Tgt Ion: 85 Resp: 4398

Ion Ratio Lower Upper

85 100

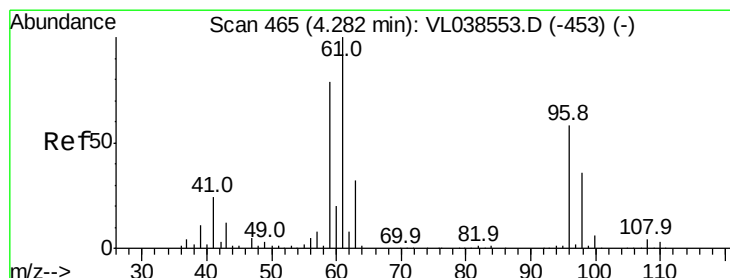
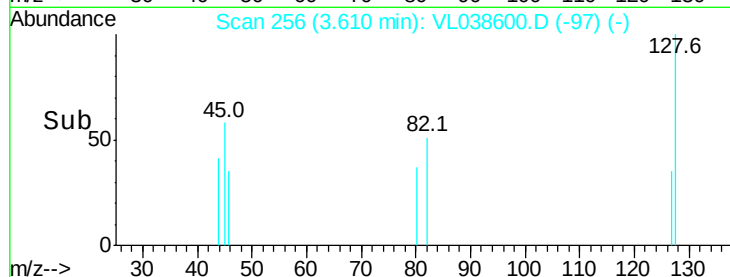
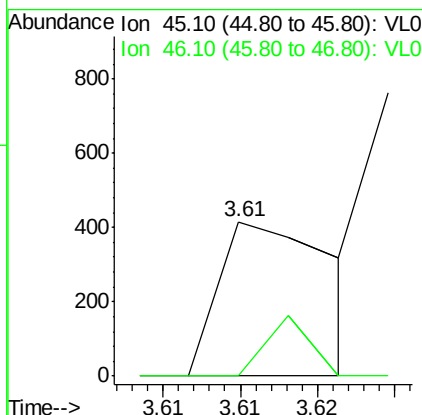
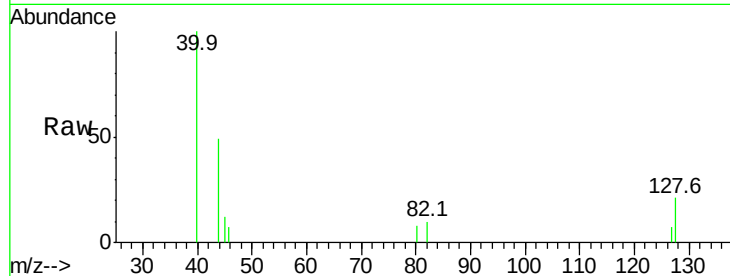
135 80.2 59.0 88.4





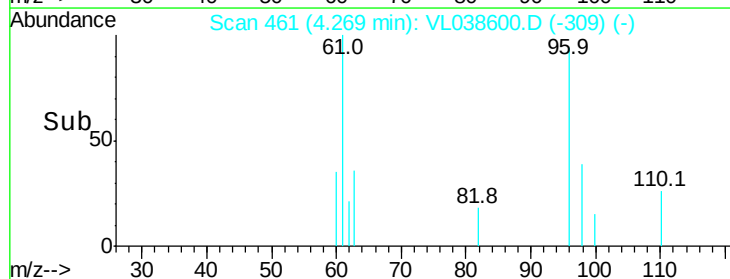
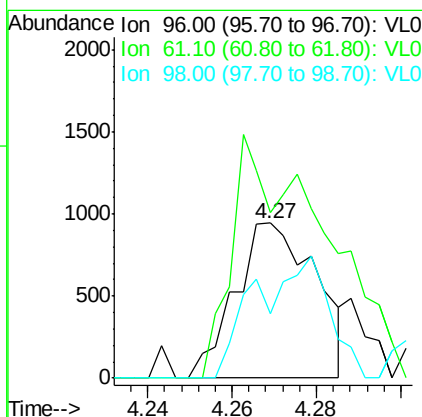
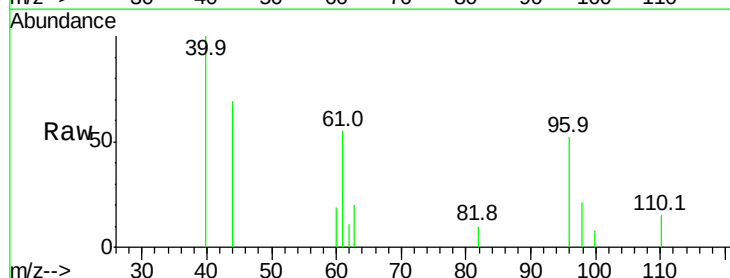
#13
 Ethanol
 Concen: 0.04 ppbv
 RT: 3.61 Instrument: MSVOA_1
 Delta R.T.: ClientSampleId:
 Lab File: LOQ-AIR-02-OT1-2022
 Acq: 14 Mar 2022 17:30

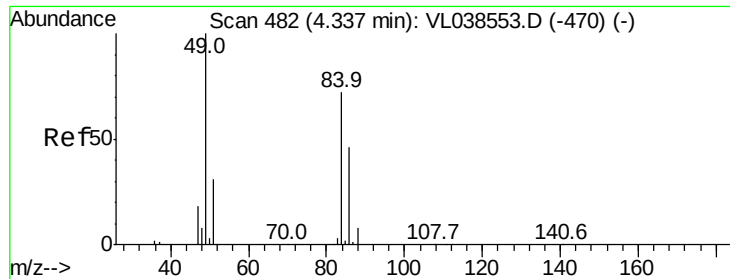
Tgt Ion: 45 Resp: 213
 Ion Ratio Lower Upper
 45 100
 46 14.6 16.8 67.0#



#18
 1,1-Dichloroethene
 Concen: 0.03 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T.: -0.01 min
 Lab File: VL038600.D
 Acq: 14 Mar 2022 17:38

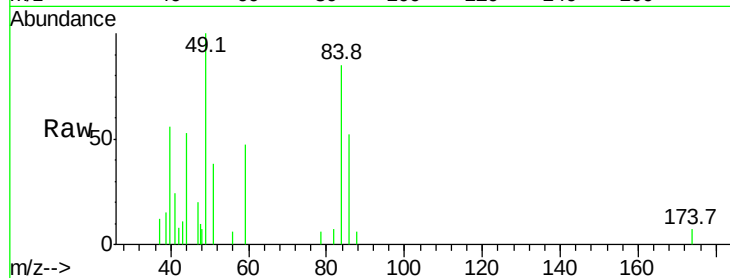
Tgt Ion: 96 Resp: 1263
 Ion Ratio Lower Upper
 96 100
 61 106.9 137.4 206.0#
 98 41.7 49.3 73.9#



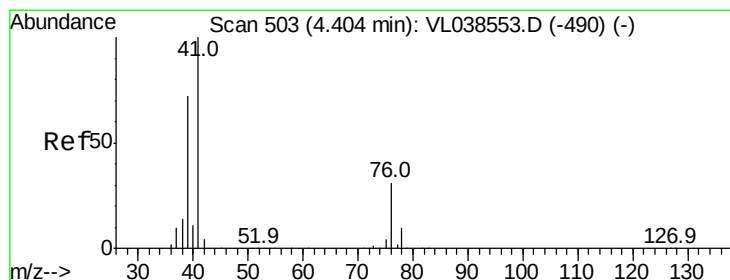
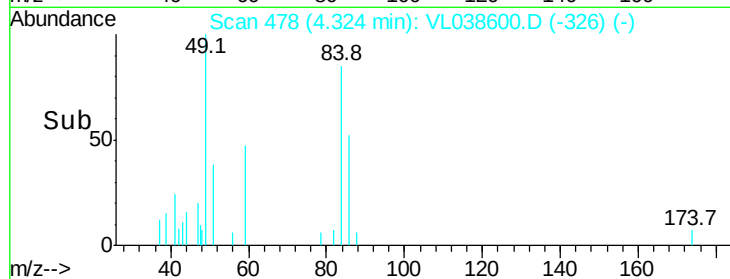
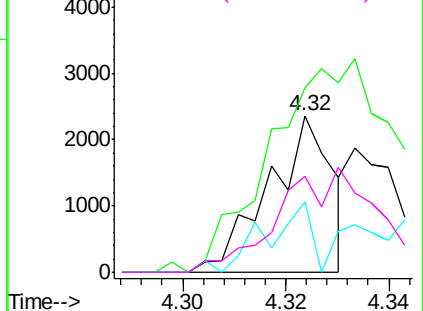


#20
Methylene Chloride
Concen: 0.06 ppbv
RT: 4.32
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Mar 2022 17:38

Tgt Ion:	84	Resp:	2014
Ion	Ratio	Lower	Upper
84	100		
49	117.9	111.1	166.7
51	44.7	34.0	51.0
86	61.3	50.9	76.3

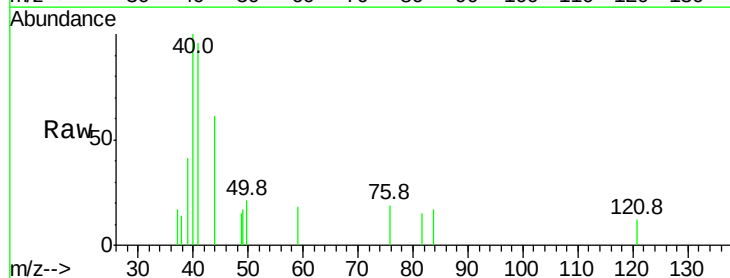


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

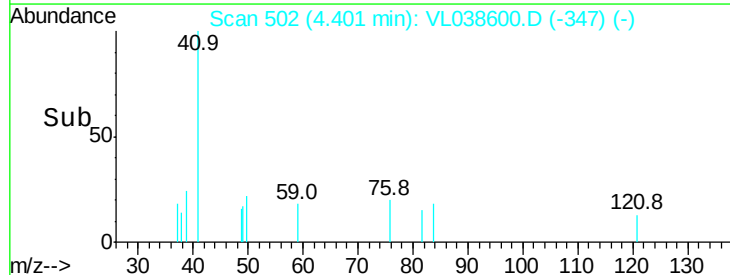
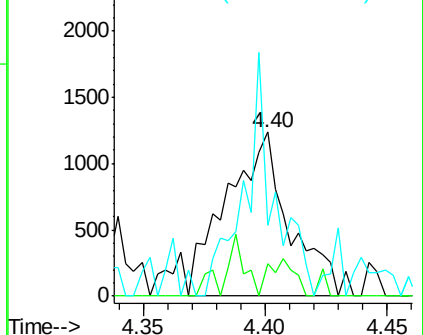


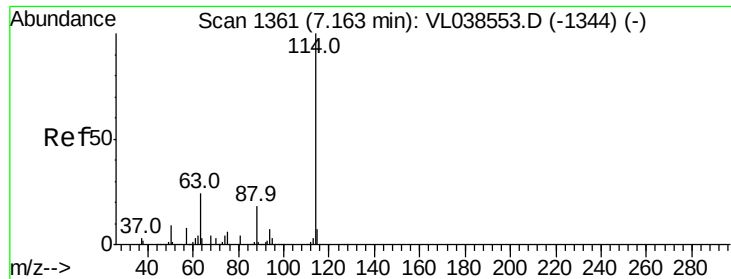
#21
Allyl Chloride
Concen: 0.04 ppbv
RT: 4.40 min Scan# 502
Delta R.T.: -0.00 min
Lab File: VL038600.D
Acq: 14 Mar 2022 17:38

Tgt Ion:	41	Resp:	2190
Ion	Ratio	Lower	Upper
41	100		
76	23.6	24.3	36.5#
39	99.6	57.1	85.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.15 Instrument: MSVOA_1

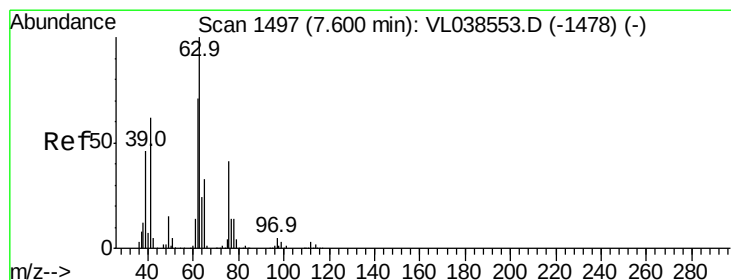
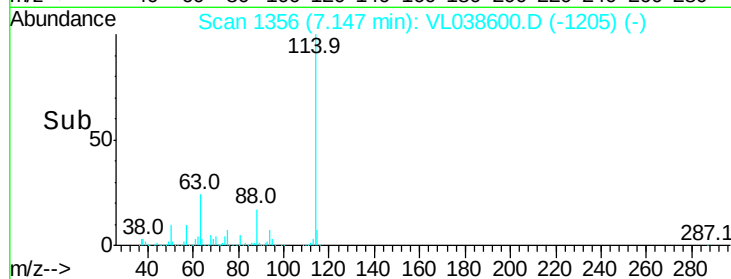
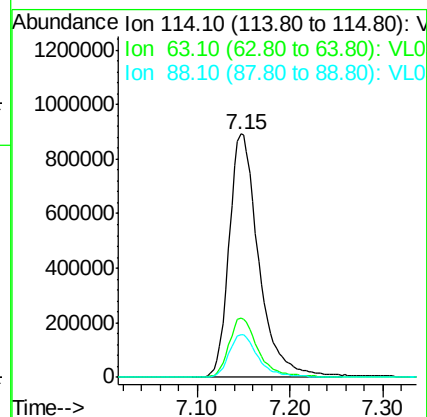
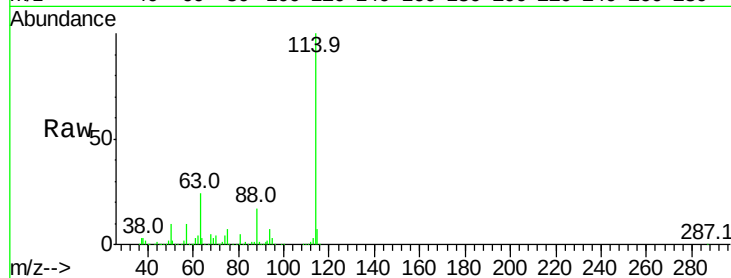
Delta R.T. ClientSampleId:

Lab File: LOQ-AIR-02-QT1-2022

Acq: 14 Mar 2022 17:30

Tgt Ion: 114 Resp: 1986507

Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.6	29.4
88	17.4	13.9	20.9



#39

1,2-Dichloropropane

Concen: 6.80 ppbv

RT: 7.15 min Scan# 1356

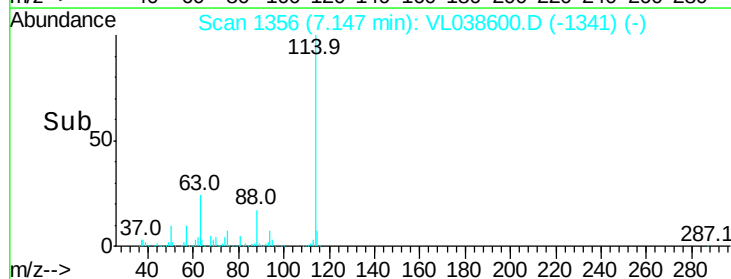
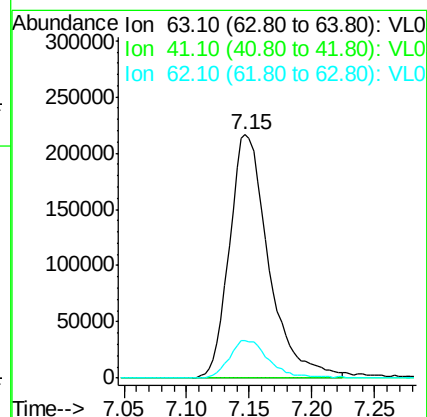
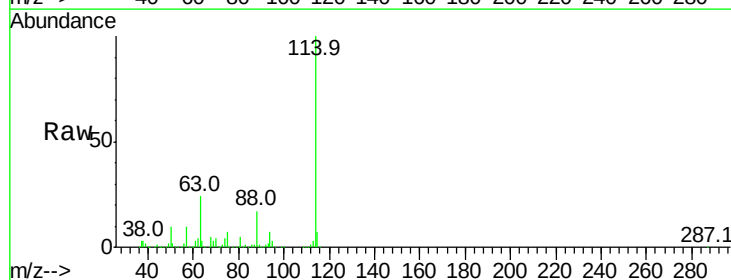
Delta R.T. -0.45 min

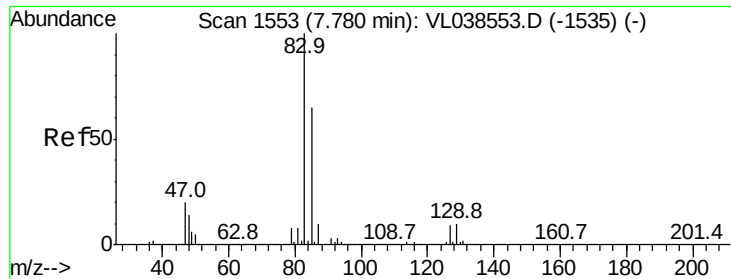
Lab File: VL038600.D

Acq: 14 Mar 2022 17:38

Tgt Ion: 63 Resp: 468777

Ion	Ratio	Lower	Upper
63	100		
41	0.2	49.8	74.6#
62	15.3	56.7	85.1#





#42

Bromodichloromethane

Concen: 0.04 ppbv

RT: 7.77 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 14 Mar 2022 17:38

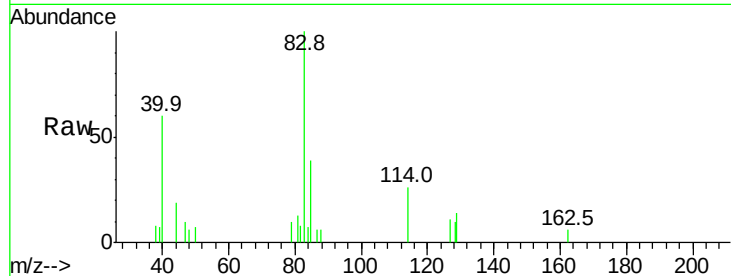
Tgt Ion: 83 Resp: 4894

Ion Ratio Lower Upper

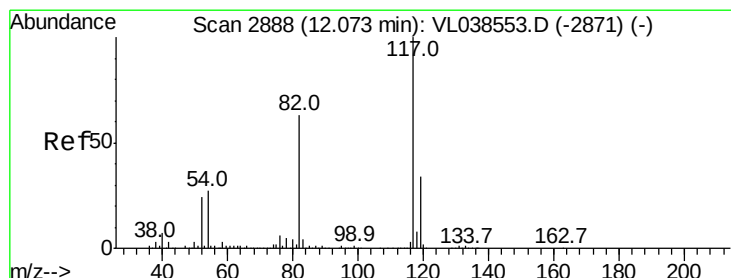
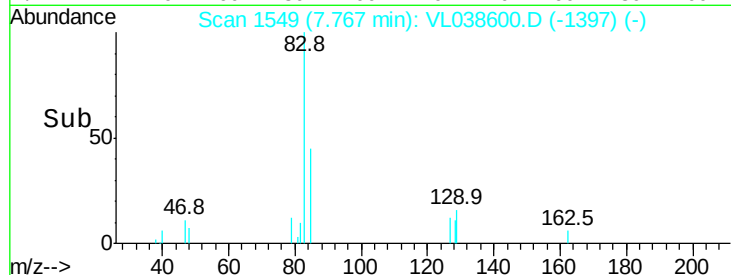
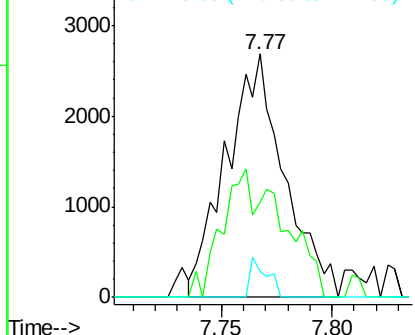
83 100

85 38.9 51.7 77.5#

127 10.6 6.9 10.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.05 min Scan# 2882

Delta R.T. -0.02 min

Lab File: VL038600.D

Acq: 14 Mar 2022 17:38

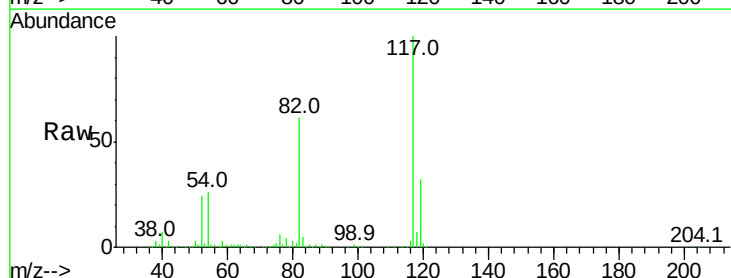
Tgt Ion: 117 Resp: 1751202

Ion Ratio Lower Upper

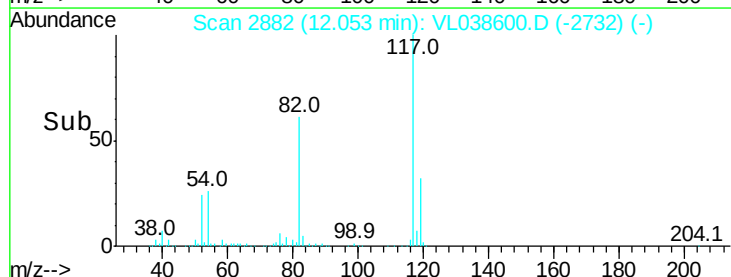
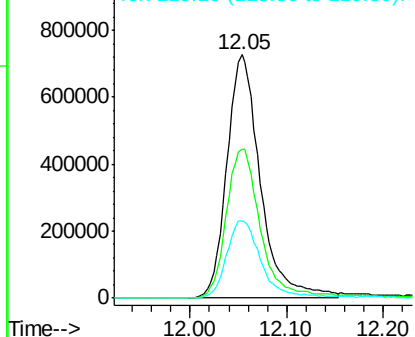
117 100

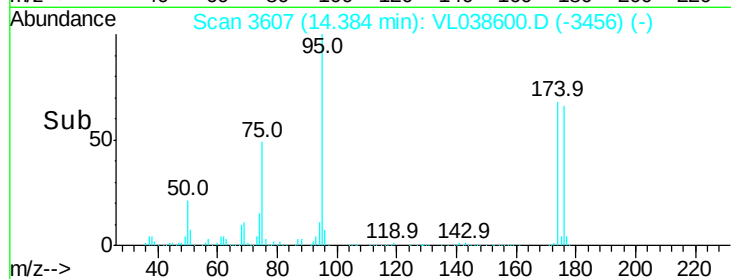
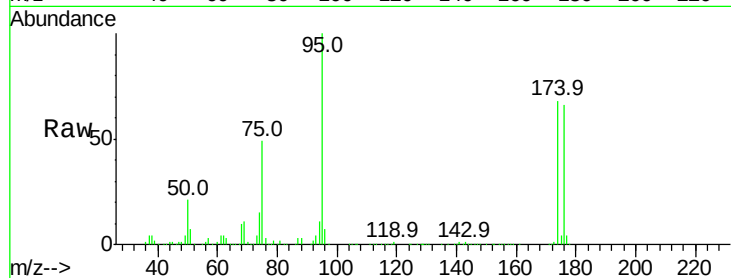
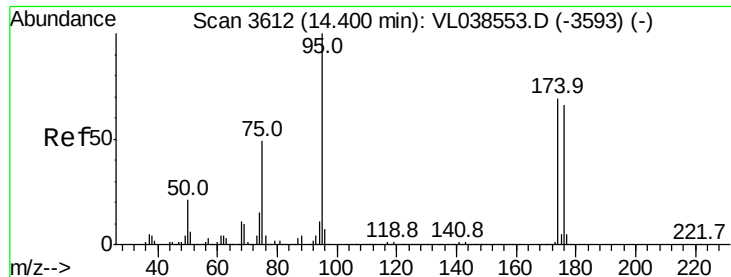
82 65.6 52.5 78.7

119 32.9 46.4 69.6#



Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.79 ppbv

RT: 14.38

Delta R.T: MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Mar 2022 17:50

Tgt Ion: 95 Resp: 1304001

Ion Ratio Lower Upper

95 100

174 72.1 56.2 84.4

175 5.1 4.2 6.2

