

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031722\
 Data File : VL038643.D
 Acq On : 18 Mar 2022 2:24
 Operator : SY/AP
 Sample : N1965-11DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PA8DL

Quant Time: Mar 18 03:42:09 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	5.67	49	827954	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	2172025	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	1830737	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1305668	9.38	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.80%

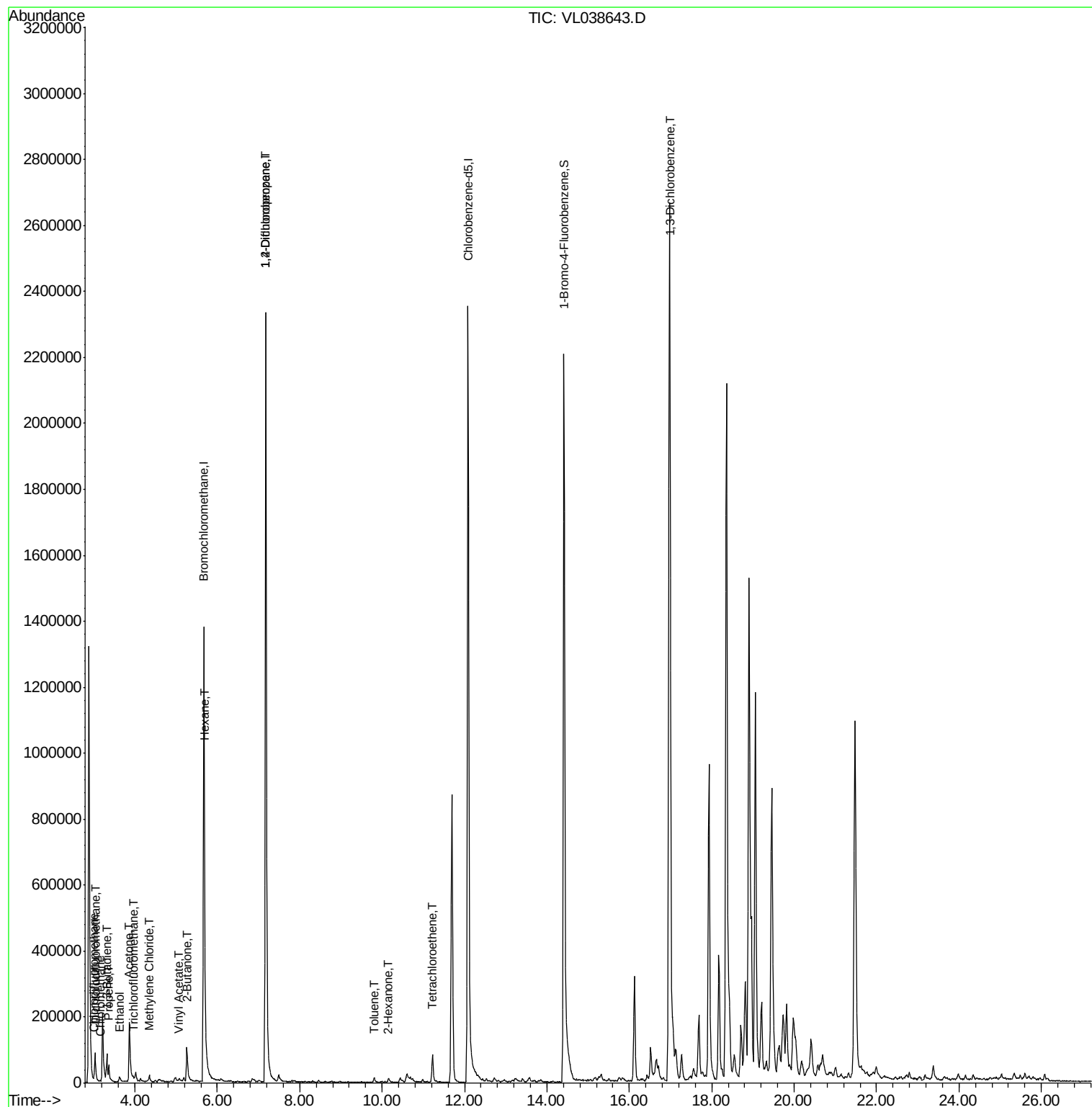
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	9965	0.08	ppbv #	81
3) Chlorodifluoromethane	3.00	51	9576	0.07	ppbv #	86
4) Chloromethane	3.15	50	1318	0.02	ppbv #	54
9) Propene	3.36	41	12089	0.23	ppbv	86
11) Trichlorofluoromethane	3.96	101	4794	0.04	ppbv	94
13) Ethanol	3.62	45	9280	1.57	ppbv #	34
15) Acetone	3.86	43	247117	4.23	ppbv #	83
16) 1,3-Butadiene	3.32	39	21736	0.46	ppbv #	18
20) Methylene Chloride	4.35	84	4207	0.12	ppbv #	88
23) Vinyl Acetate	5.07	43	4837	0.06	ppbv #	94
26) Hexane	5.69	57	2794	0.03	ppbv #	1
34) 2-Butanone	5.26	43	158140	2.81	ppbv	95
39) 1,2-Dichloropropane	7.18	63	494652	6.56	ppbv #	26
51) 2-Hexanone	10.15	43	3473	0.07	ppbv #	28
52) Tetrachloroethene	11.22	164	10258	0.14	ppbv	93
53) Toluene	9.81	91	4427	0.02	ppbv #	21
75) 1,3-Dichlorobenzene	17.00	146	3879	0.03	ppbv #	1

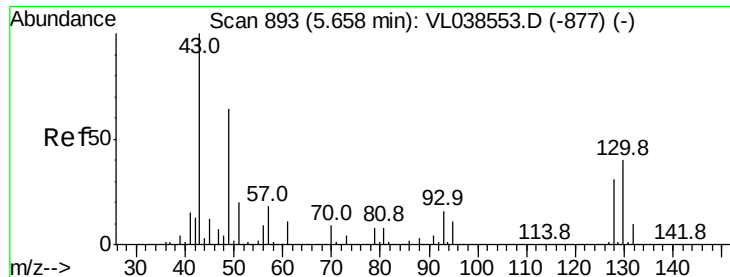
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 2:24

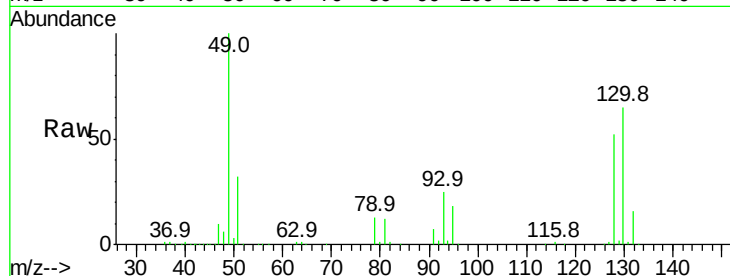
Tgt Ion: 49 Resp: 827954

Ion Ratio Lower Upper

49 100

128 55.1 26.4 79.2

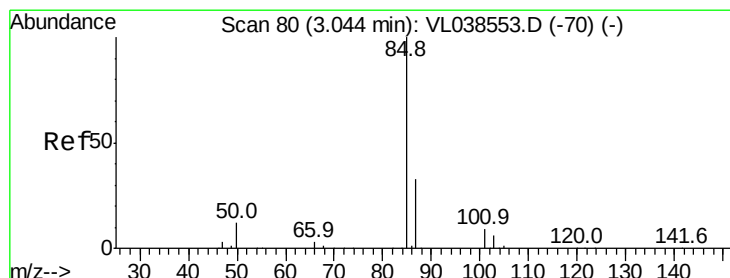
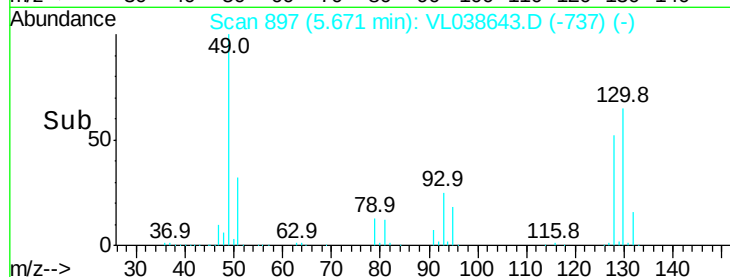
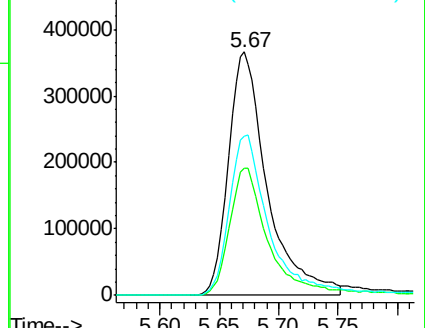
130 70.3 33.0 98.9



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: 0.08 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038643.D

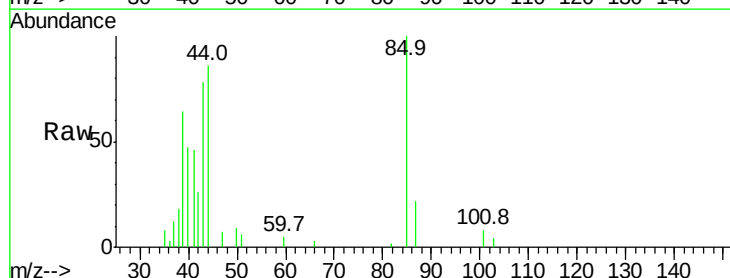
Acq: 18 Mar 2022 2:24

Tgt Ion: 85 Resp: 9965

Ion Ratio Lower Upper

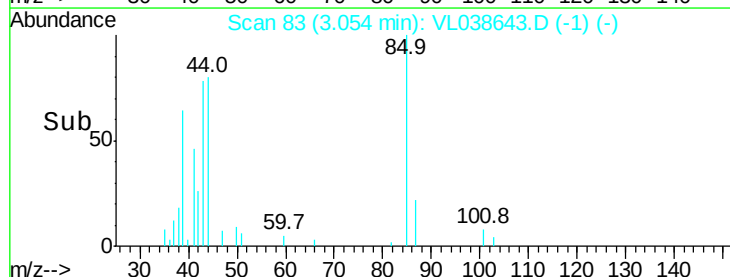
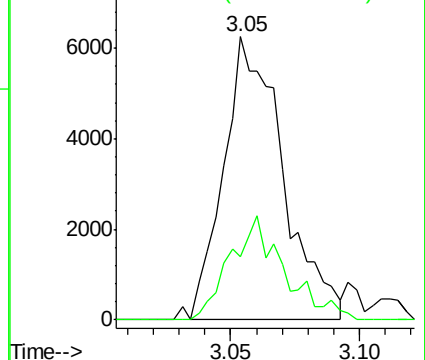
85 100

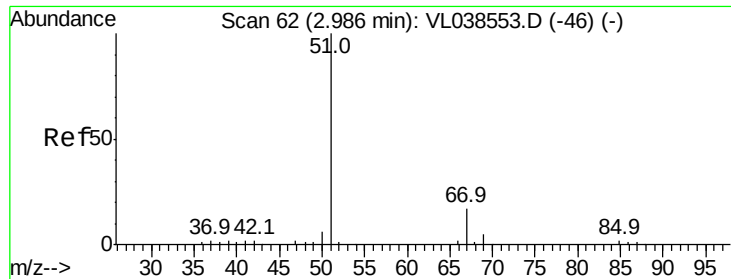
87 22.2 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.07 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

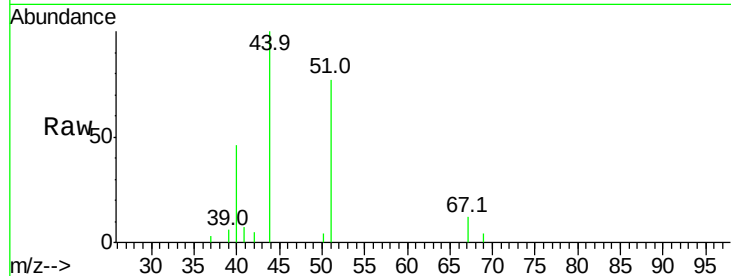
Acq: 18 Mar 2022 2:24

Tgt Ion: 51 Resp: 9576

Ion Ratio Lower Upper

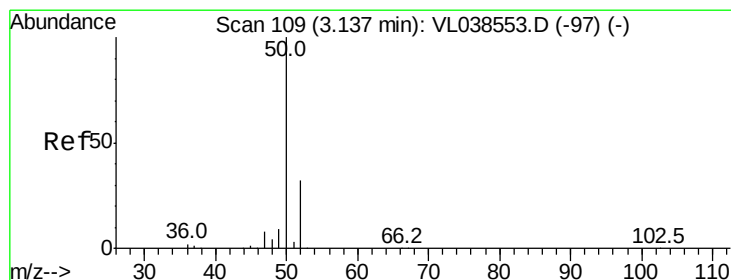
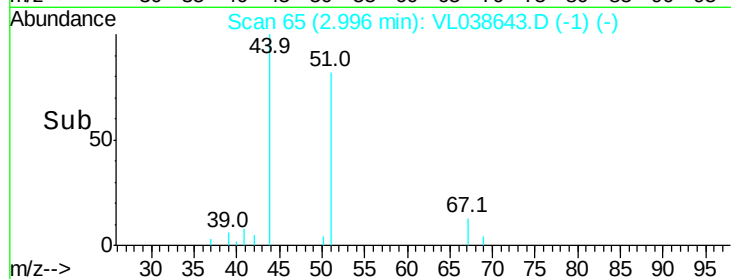
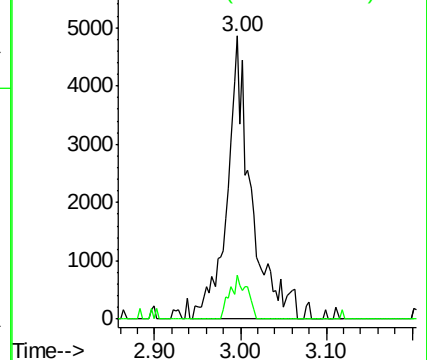
51 100

67 10.7 13.6 20.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.02 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL038643.D

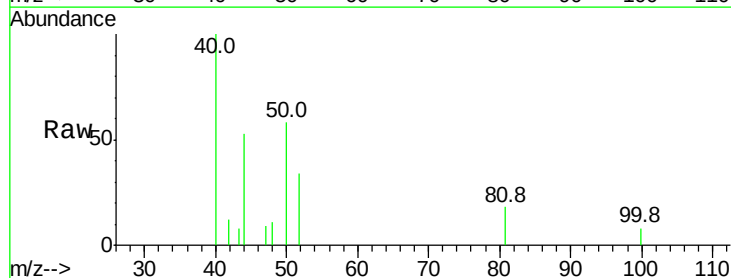
Acq: 18 Mar 2022 2:24

Tgt Ion: 50 Resp: 1318

Ion Ratio Lower Upper

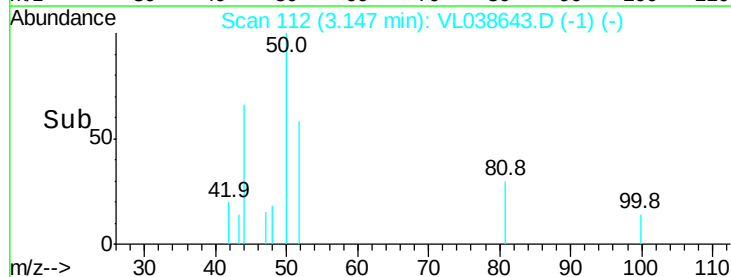
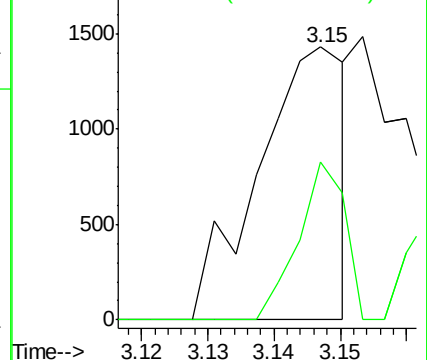
50 100

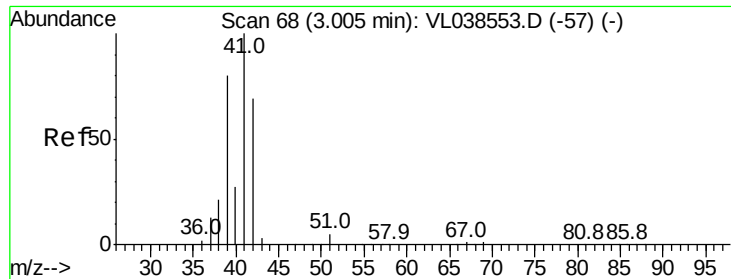
52 57.7 25.6 38.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.23 ppbv

RT: 3.36 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

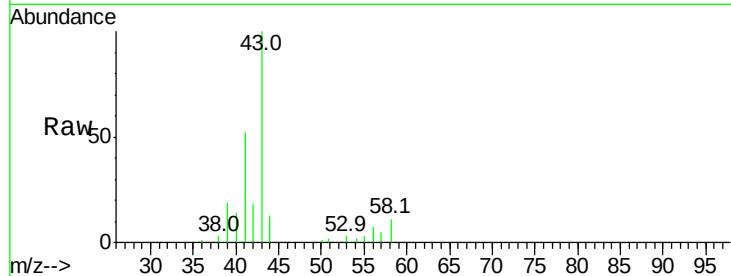
Acq: 18 Mar 2022 2:24

Tgt Ion: 41 Resp: 12089

Ion Ratio Lower Upper

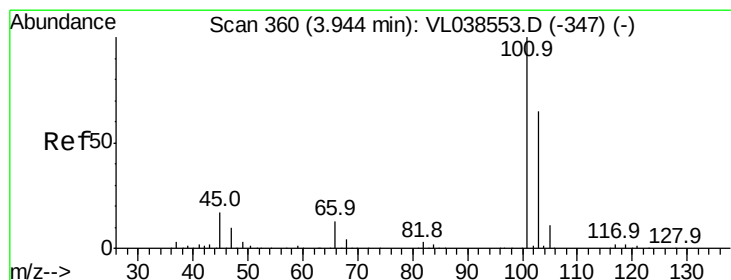
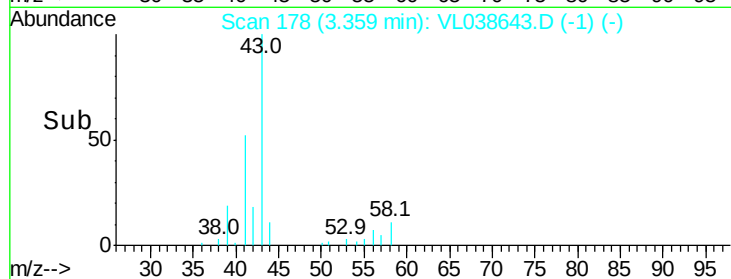
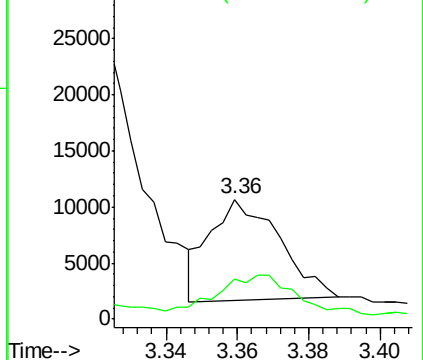
41 100

42 58.4 55.7 83.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.04 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL038643.D

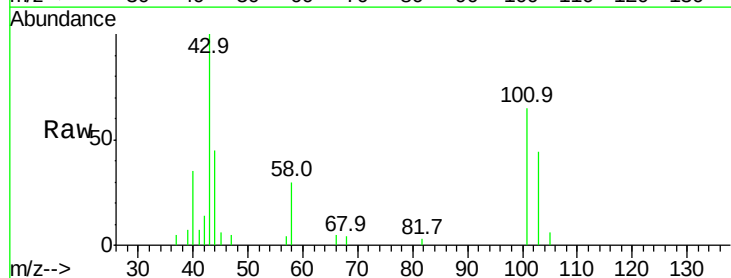
Acq: 18 Mar 2022 2:24

Tgt Ion: 101 Resp: 4794

Ion Ratio Lower Upper

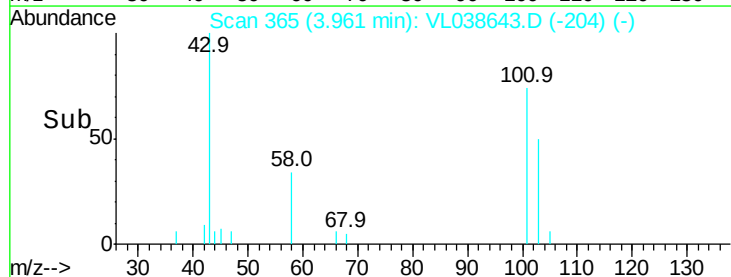
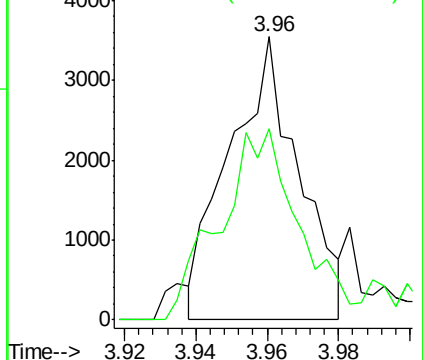
101 100

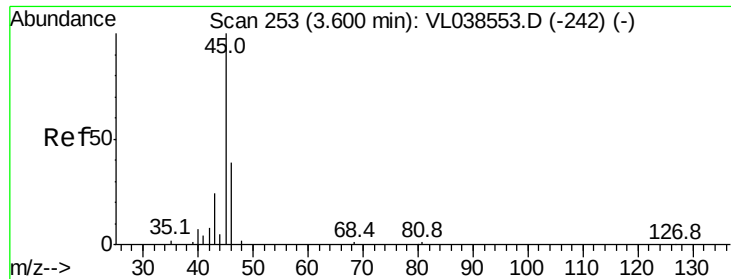
103 60.4 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): V

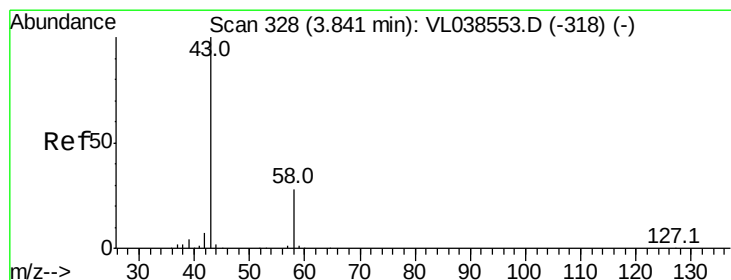
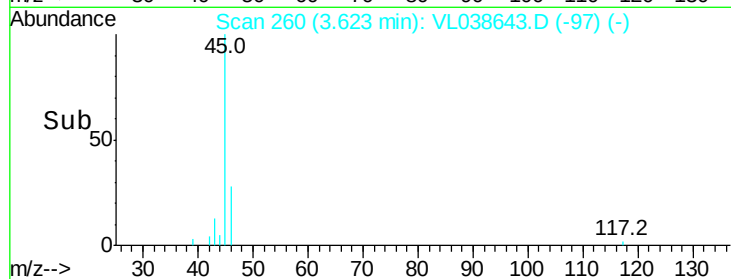
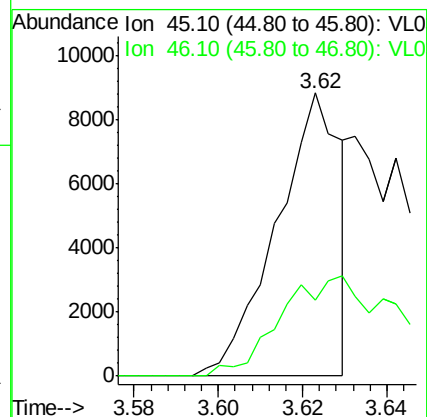
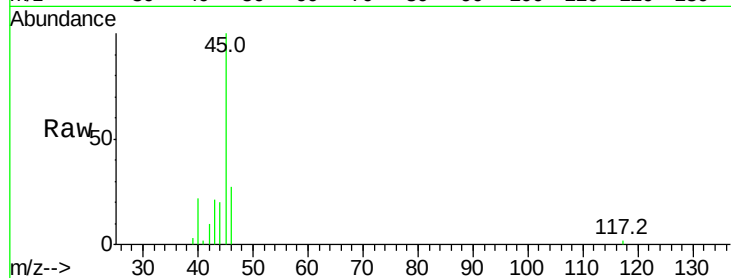
Ion 103.00 (102.70 to 103.70): V





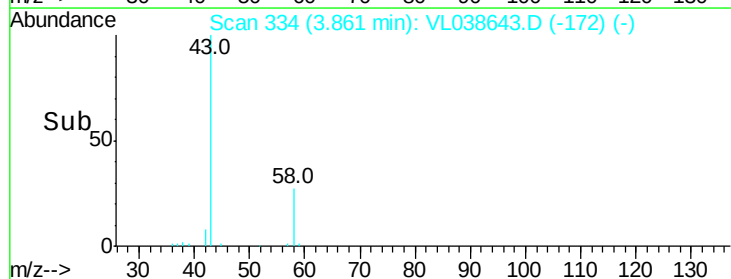
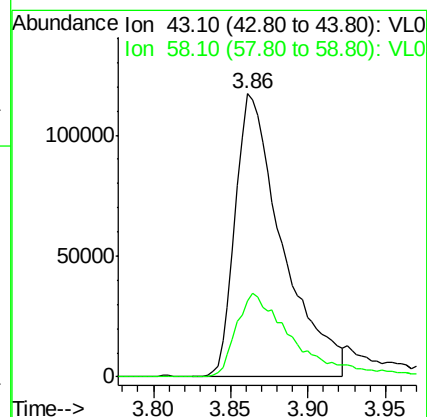
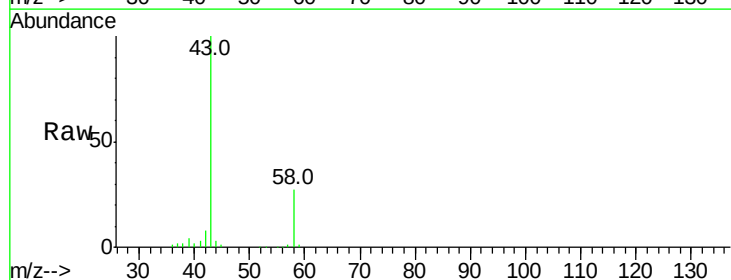
#13
Ethanol
Concen: 1.57 ppbv
RT: 3.62
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Mar 2022 2:24

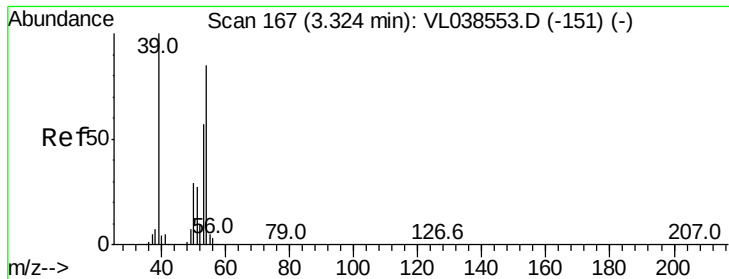
Tgt Ion: 45 Resp: 9280
Ion Ratio Lower Upper
45 100
46 0.0 16.8 67.0#



#15
Acetone
Concen: 4.23 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.02 min
Lab File: VL038643.D
Acq: 18 Mar 2022 2:24

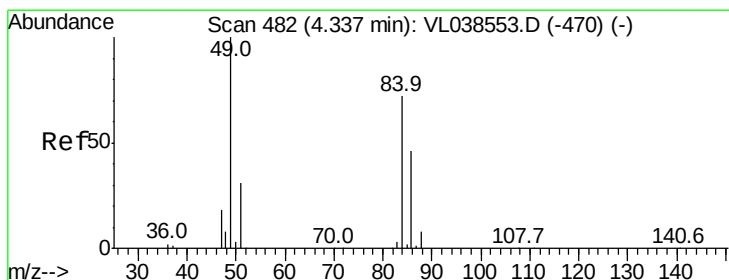
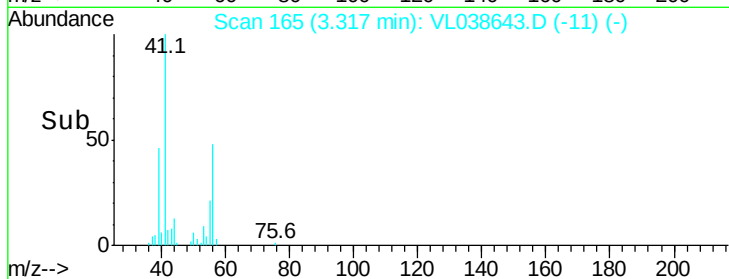
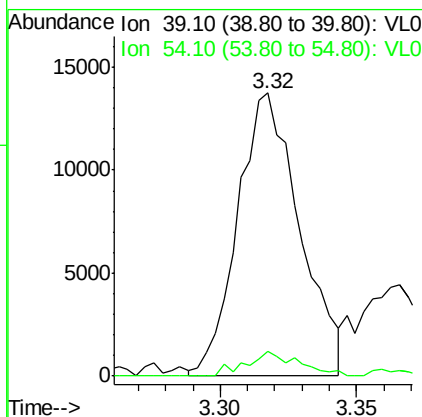
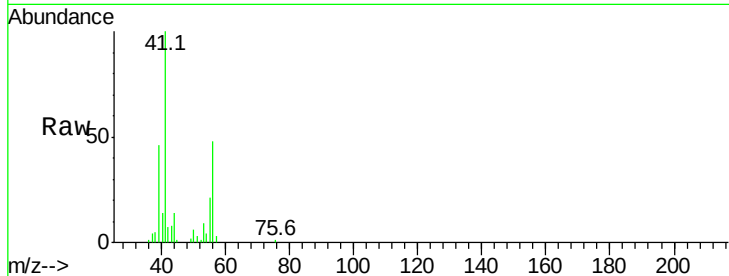
Tgt Ion: 43 Resp: 247117
Ion Ratio Lower Upper
43 100
58 37.3 22.7 34.1#





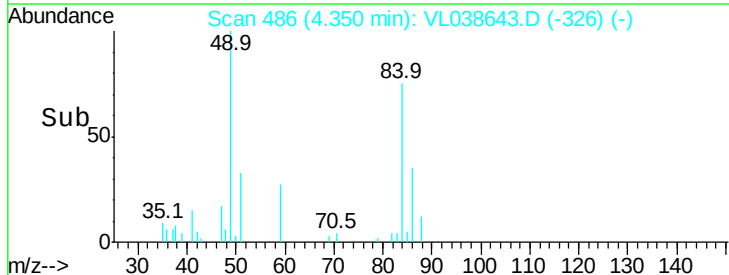
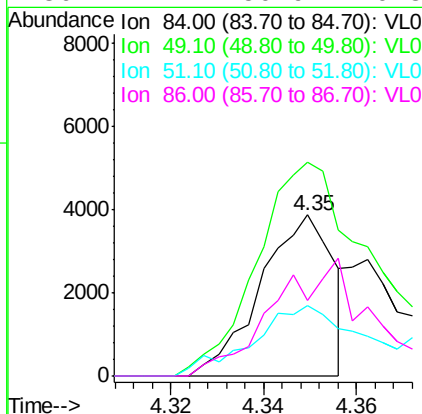
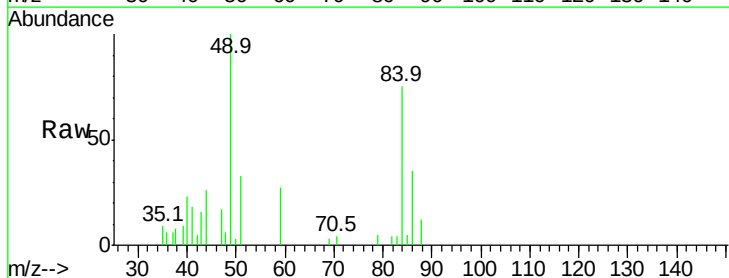
#16
 1,3-Butadiene
 Concen: 0.46 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0PA8DL
 Acq: 18 Mar 2022 2:24

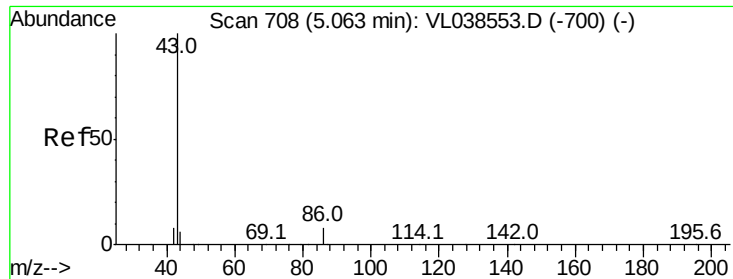
Tgt Ion: 39 Resp: 21736
 Ion Ratio Lower Upper
 39 100
 54 7.3 64.2 96.2#



#20
 Methylene Chloride
 Concen: 0.12 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. 0.01 min
 Lab File: VL038643.D
 Acq: 18 Mar 2022 2:24

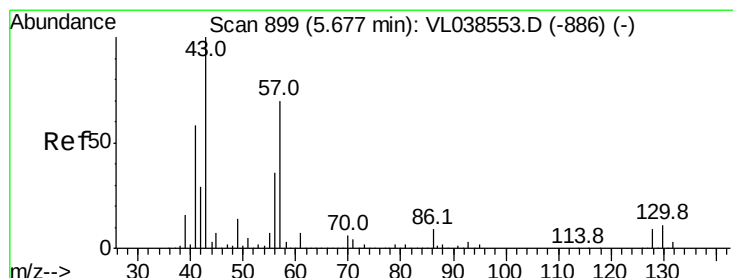
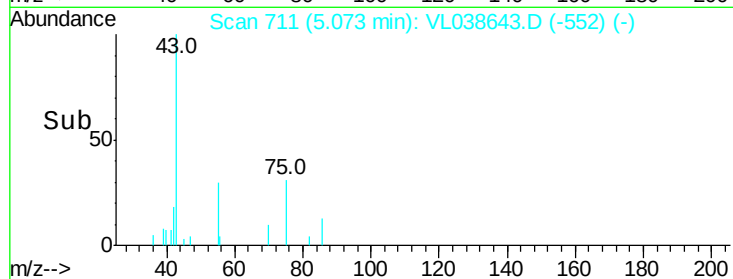
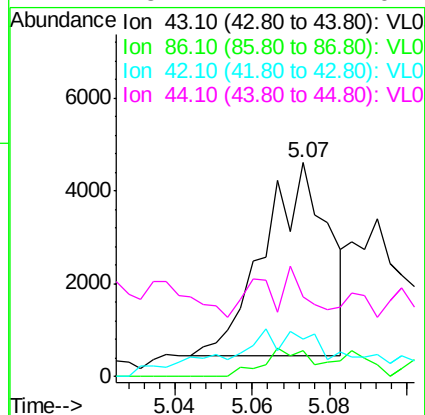
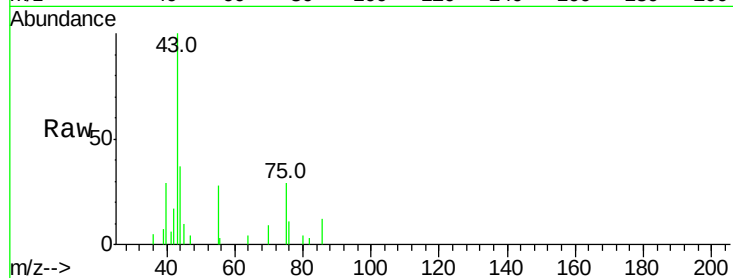
Tgt Ion: 84 Resp: 4207
 Ion Ratio Lower Upper
 84 100
 49 127.2 111.1 166.7
 51 38.8 34.0 51.0
 86 47.1 50.9 76.3#





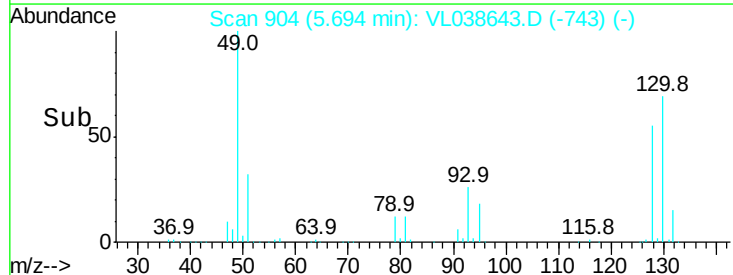
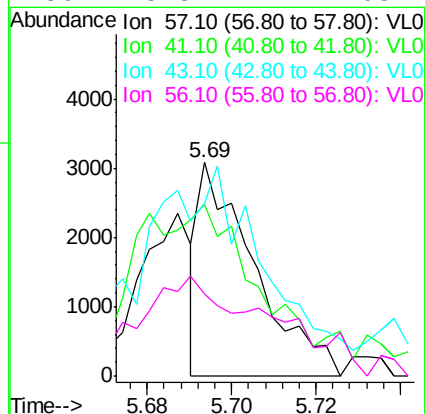
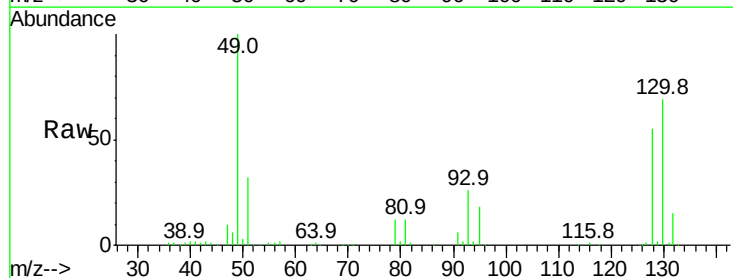
#23
 Vinyl Acetate
 Concen: 0.06 ppbv
 RT: 5.07
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 C0PA8DL
 Acq: 18 Mar 2022 2:24

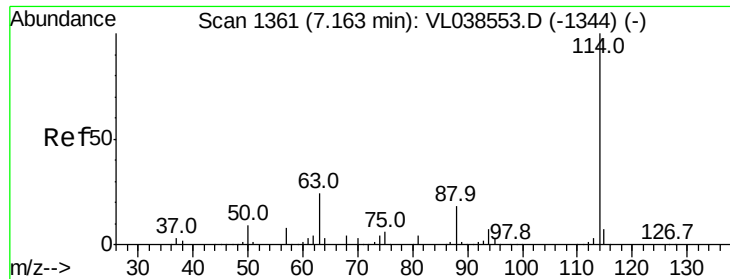
Tgt Ion:	43	Resp:	4837
Ion	Ratio	Lower	Upper
43	100		
86	13.1	5.6	8.4#
42	9.3	7.1	10.7
44	5.1	4.1	6.1



#26
 Hexane
 Concen: 0.03 ppbv
 RT: 5.69 min Scan# 904
 Delta R.T. 0.02 min
 Lab File: VL038643.D
 Acq: 18 Mar 2022 2:24

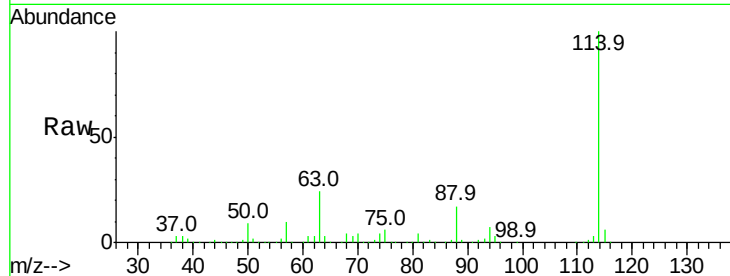
Tgt Ion:	57	Resp:	2794
Ion	Ratio	Lower	Upper
57	100		
41	232.5	67.8	101.6#
43	0.0	173.6	260.4#
56	123.8	42.2	63.2#



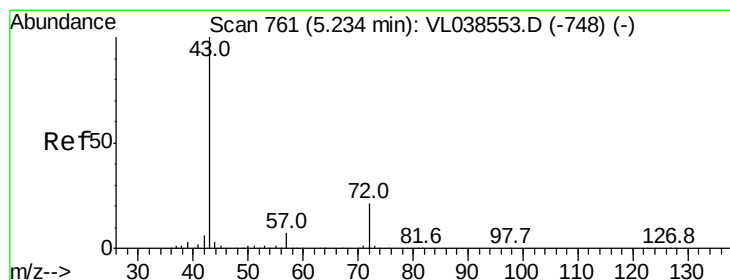
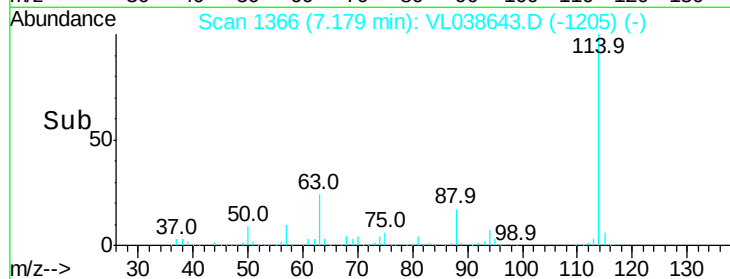
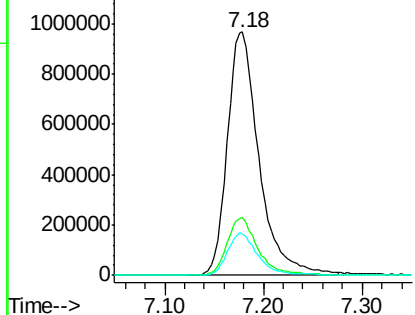


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 18 Mar 2022 2:24

Tgt Ion: 114 Resp: 2172025
 Ion Ratio Lower Upper
 114 100
 63 23.6 19.6 29.4
 88 17.0 13.9 20.9

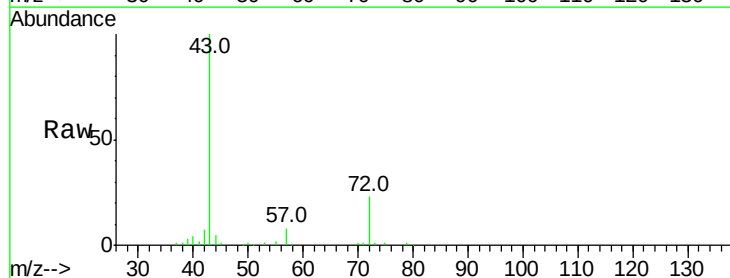


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

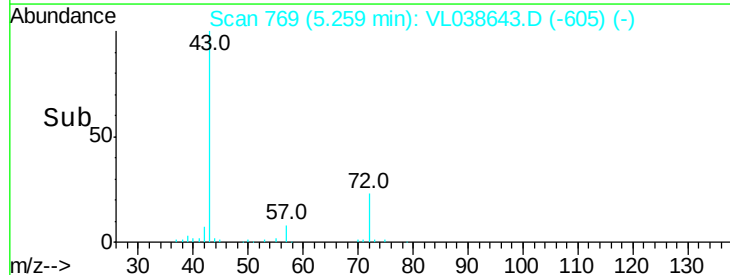
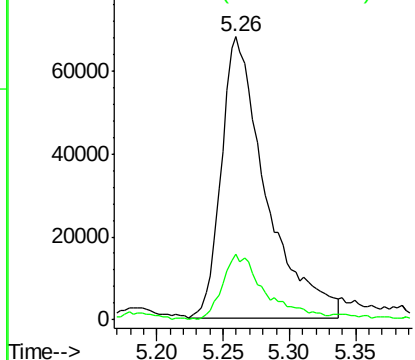


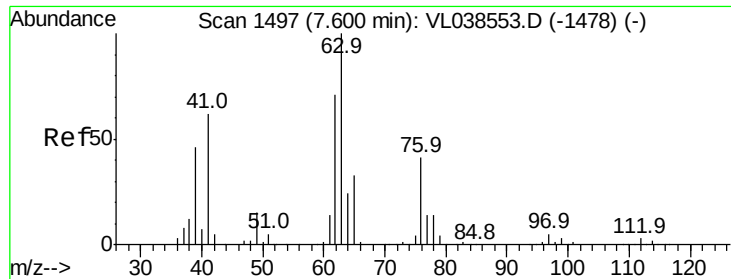
#34
 2-Butanone
 Concen: 2.81 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.03 min
 Lab File: VL038643.D
 Acq: 18 Mar 2022 2:24

Tgt Ion: 43 Resp: 158140
 Ion Ratio Lower Upper
 43 100
 72 24.7 17.8 26.6



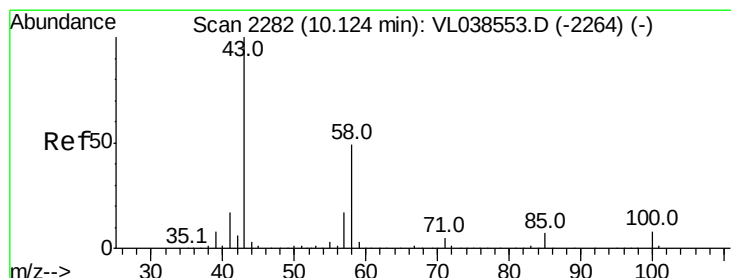
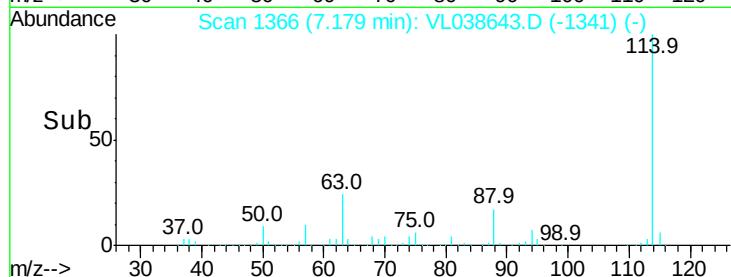
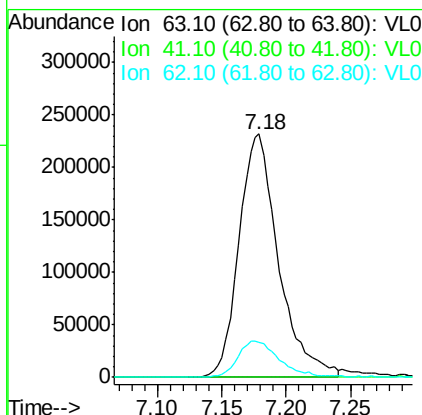
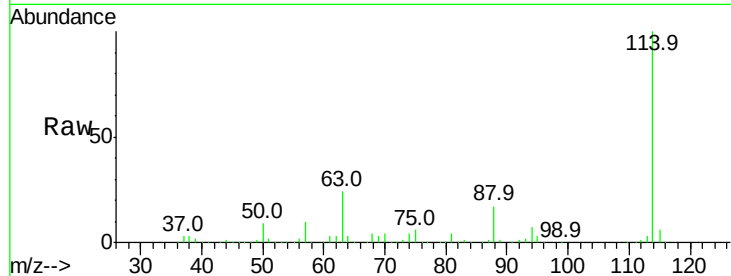
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





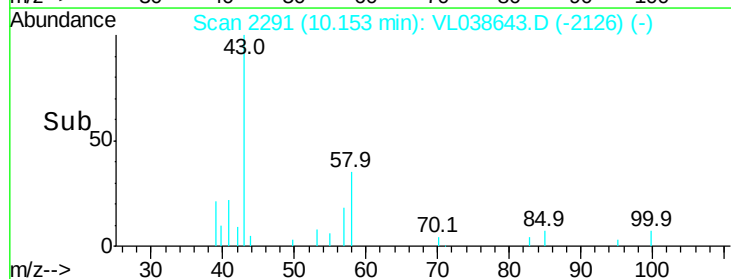
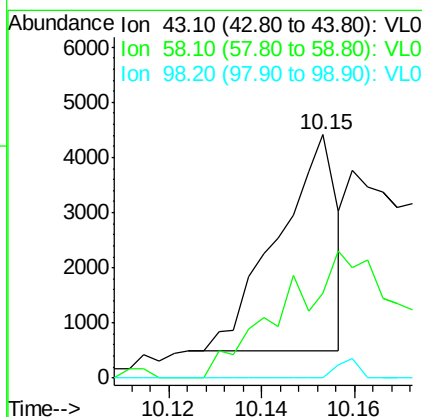
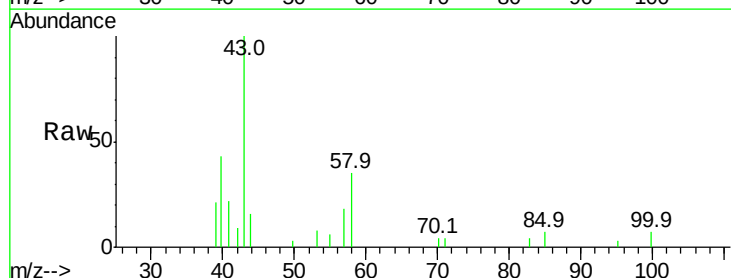
#39
 1,2-Dichloropropane
 Concen: 6.56 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0PA8DL
 Acq: 18 Mar 2022 2:24

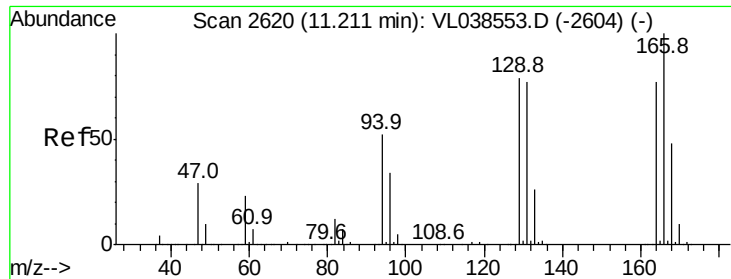
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.1	49.8	74.6#
62	14.3	56.7	85.1#



#51
 2-Hexanone
 Concen: 0.07 ppbv
 RT: 10.15 min Scan# 2291
 Delta R.T. 0.03 min
 Lab File: VL038643.D
 Acq: 18 Mar 2022 2:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.1	60.1#
98	0.0	0.4	0.6#





#52

Tetrachloroethene

Concen: 0.14 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 2:24

Tgt Ion: 164 Resp: 10258

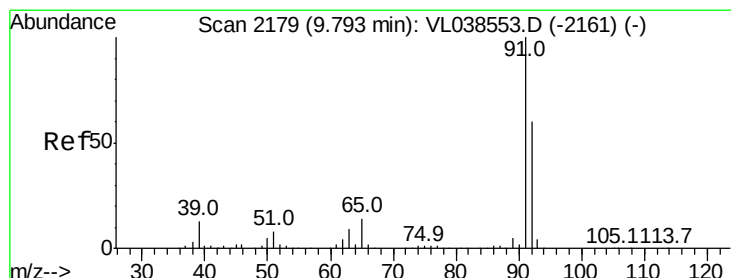
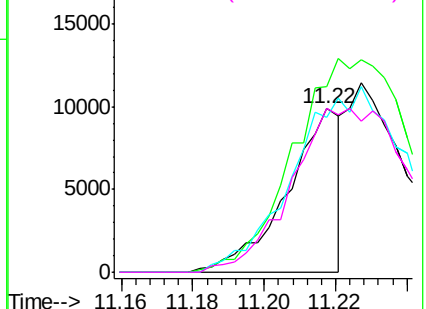
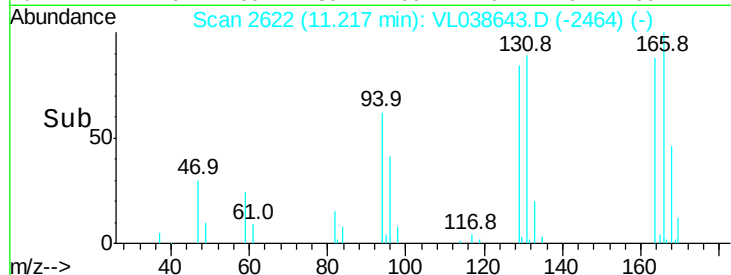
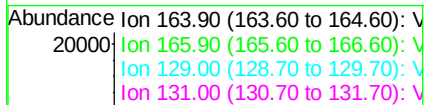
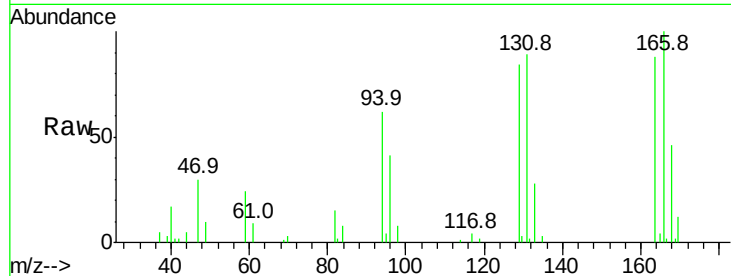
Ion Ratio Lower Upper

164 100

166 113.5 103.4 155.2

129 98.0 81.3 121.9

131 102.8 79.8 119.8



#53

Toluene

Concen: 0.02 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.02 min

Lab File: VL038643.D

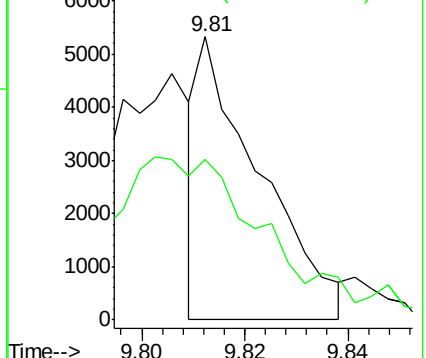
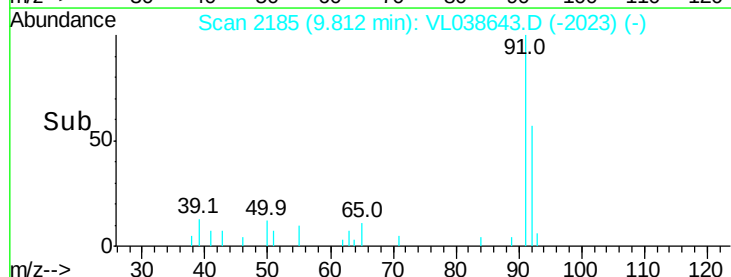
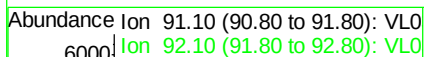
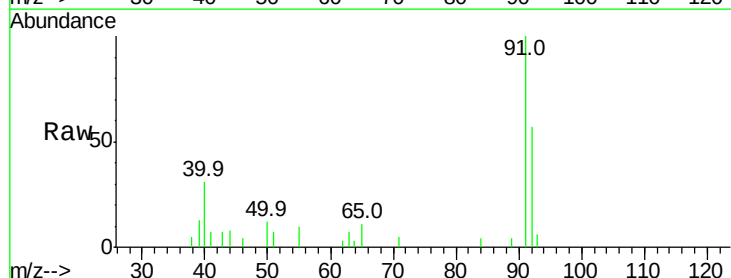
Acq: 18 Mar 2022 2:24

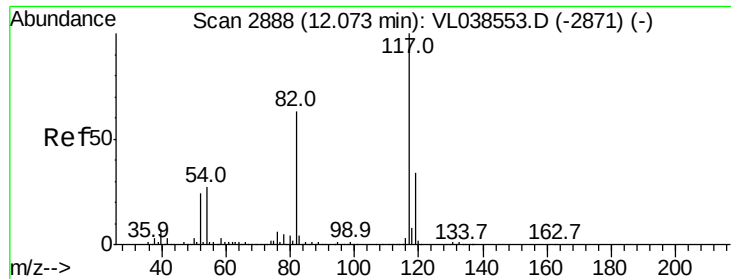
Tgt Ion: 91 Resp: 4427

Ion Ratio Lower Upper

91 100

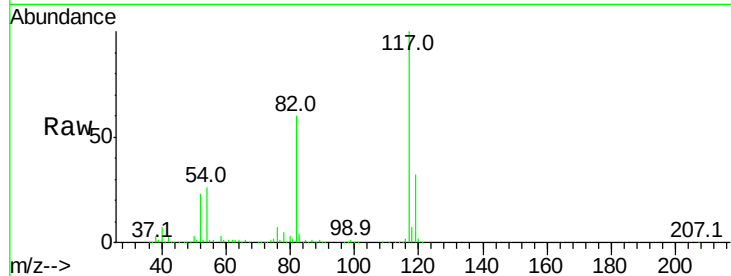
92 0.0 48.1 72.1#



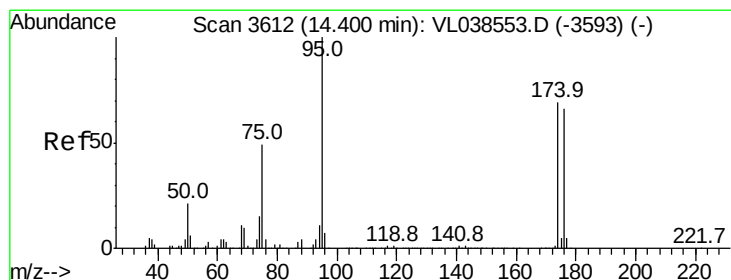
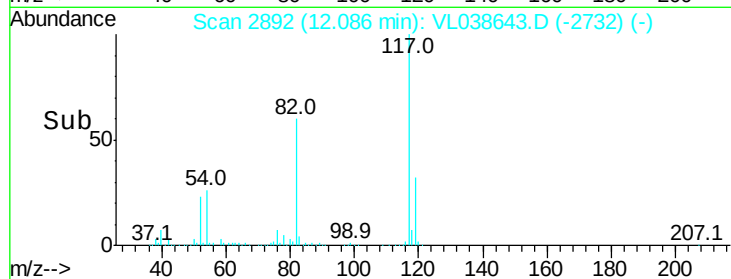
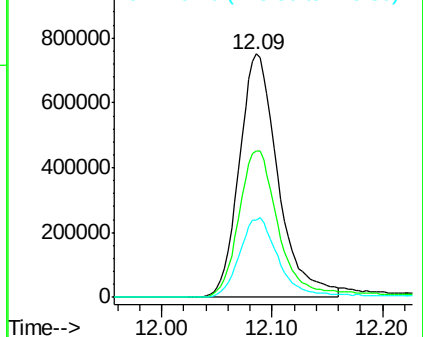


#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.09
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 C0PA8DL
 Acq: 18 Mar 2022 2:24

Tgt Ion: 117 Resp: 1830737
 Ion Ratio Lower Upper
 117 100
 82 65.3 52.5 78.7
 119 34.5 46.4 69.6#

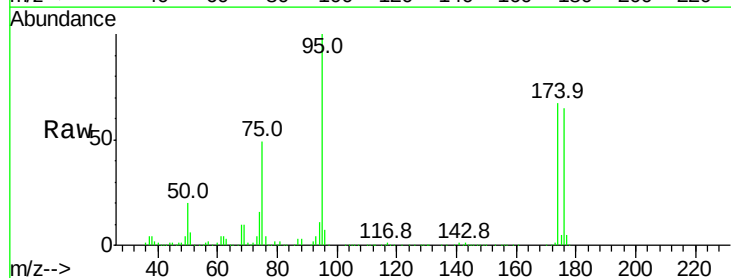


Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): V
 Ion 119.10 (118.80 to 119.80): V

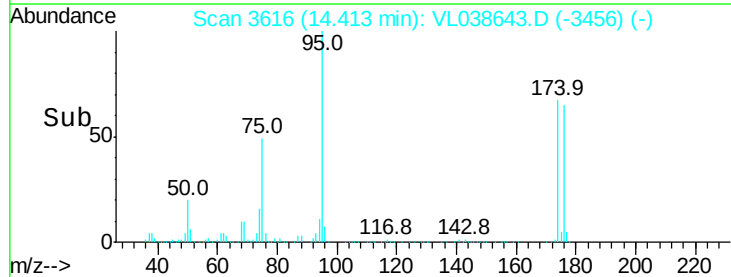
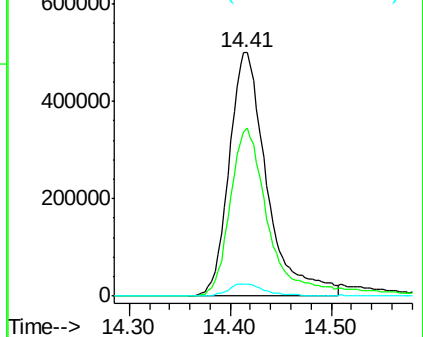


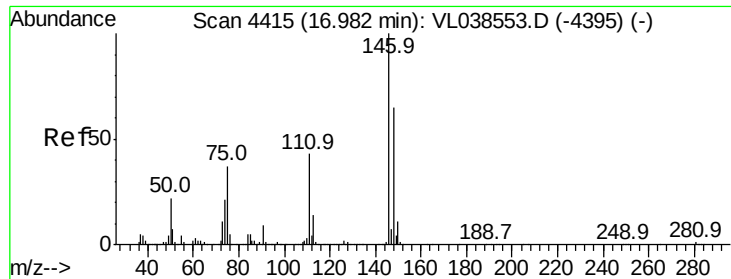
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.38 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. 0.01 min
 Lab File: VL038643.D
 Acq: 18 Mar 2022 2:24

Tgt Ion: 95 Resp: 1305668
 Ion Ratio Lower Upper
 95 100
 174 72.8 56.2 84.4
 175 5.2 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





#75

1,3-Dichlorobenzene

Concen: 0.03 ppbv

RT: 17.00 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Mar 2022 2.24

Tgt Ion:146 Resp: 3879

Ion Ratio Lower Upper

146 100

111 0.0 21.9 65.8#

148 261.5 32.2 96.6#

