

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032422\
 Data File : VL038758.D
 Acq On : 24 Mar 2022 21:36
 Operator : SY/AP
 Sample : N2078-02DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-10DL

Quant Time: Mar 25 02:32:25 2022
 Quant Method : Z:\VOASRV\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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	808937	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	2090152	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	1766367	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1283693	9.48	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.80%

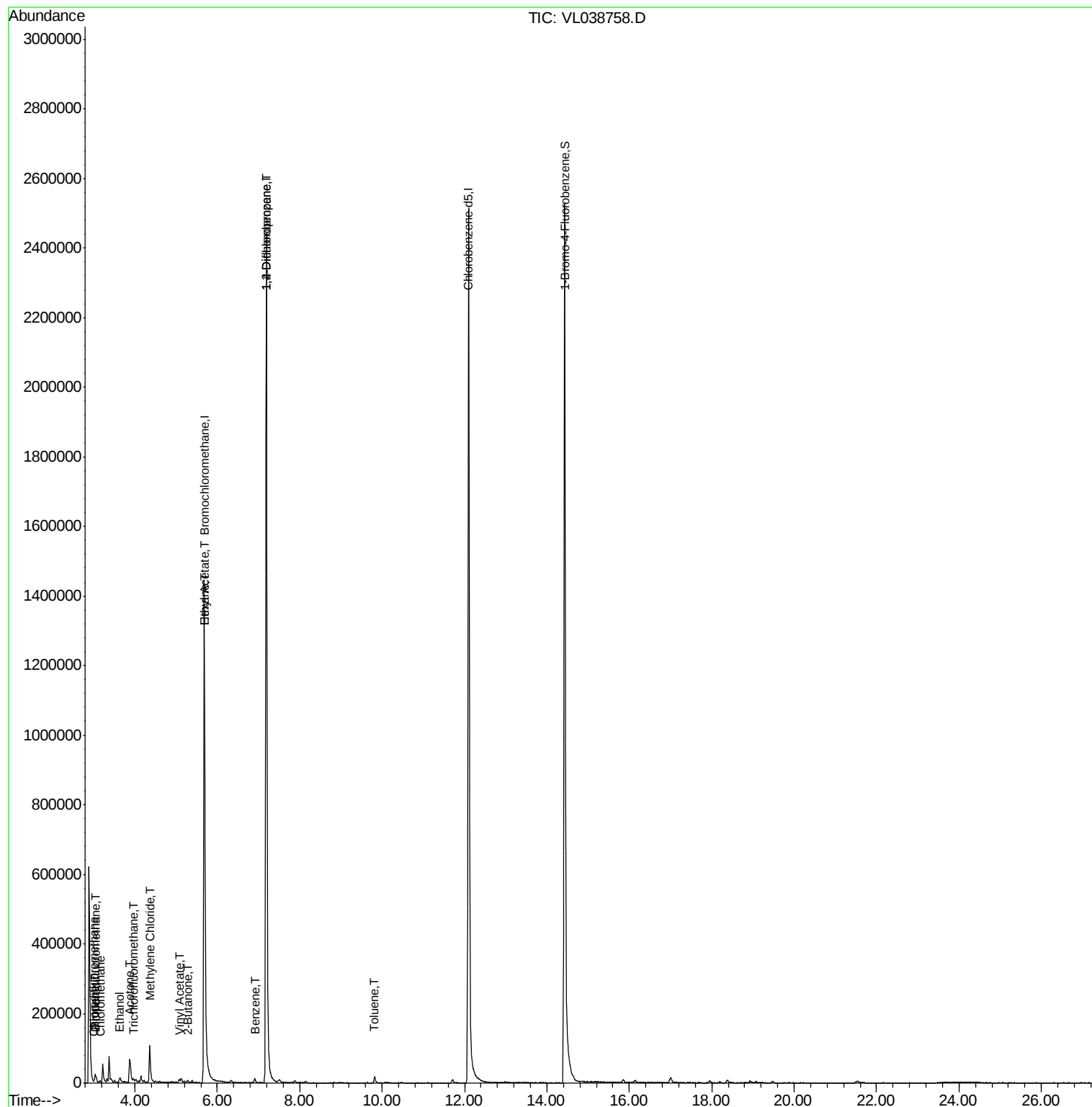
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	10331	0.10	ppbv	99
3) Chlorodifluoromethane	3.00	51	5935	0.07	ppbv #	92
4) Chloromethane	3.15	50	2610	0.06	ppbv	93
9) Propene	3.04	41	7777	0.19	ppbv	87
11) Trichlorofluoromethane	3.96	101	3789	0.04	ppbv #	56
13) Ethanol	3.62	45	6991	1.54	ppbv #	1
15) Acetone	3.87	43	85840	1.23	ppbv	95
20) Methylene Chloride	4.36	84	44791	1.52	ppbv	98
23) Vinyl Acetate	5.08	43	4533	0.07	ppbv #	79
25) Ethyl Acetate	5.70	43	20147	0.11	ppbv #	85
26) Hexane	5.70	57	13761	0.17	ppbv #	38
34) 2-Butanone	5.28	43	7816	0.09	ppbv #	85
36) Benzene	6.91	78	10941	0.07	ppbv #	91
39) 1,2-Dichloropropane	7.19	63	489452	7.76	ppbv #	29
53) Toluene	9.82	91	16005	0.09	ppbv	99

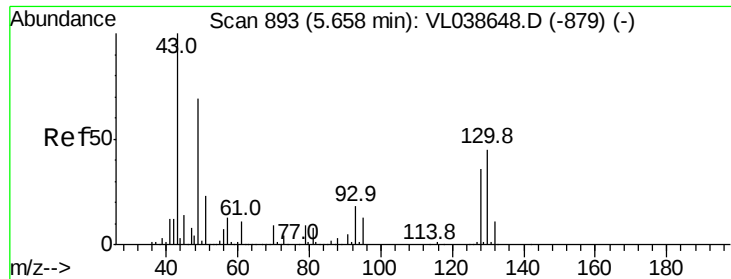
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 21:30

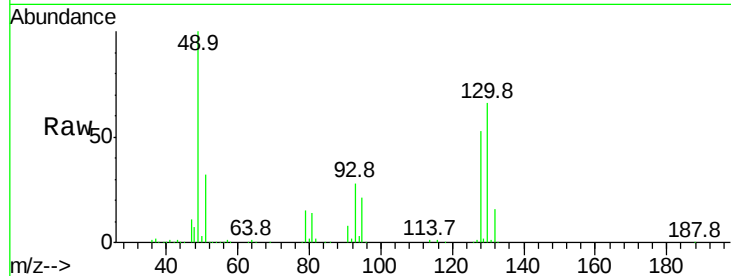
Tgt Ion: 49 Resp: 808937

Ion Ratio Lower Upper

49 100

128 53.8 26.2 78.6

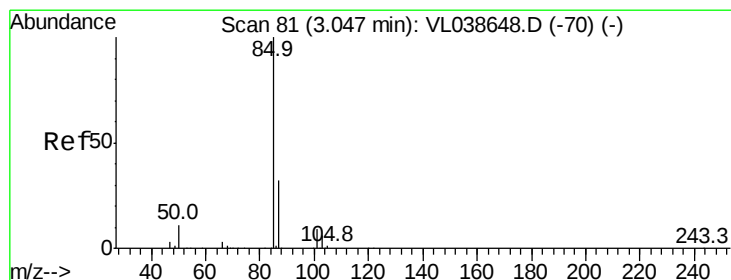
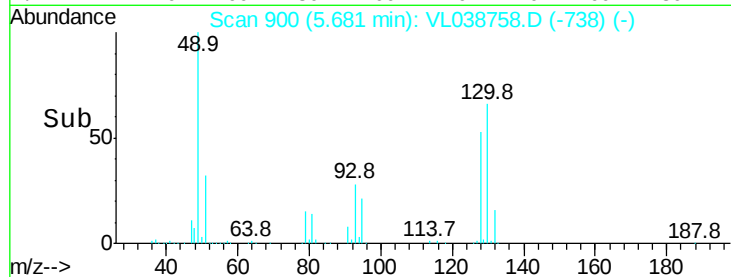
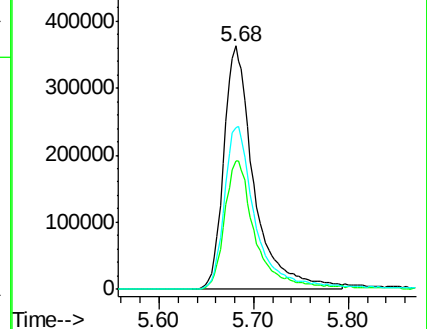
130 70.6 33.7 101.1



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: 0.10 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL038758.D

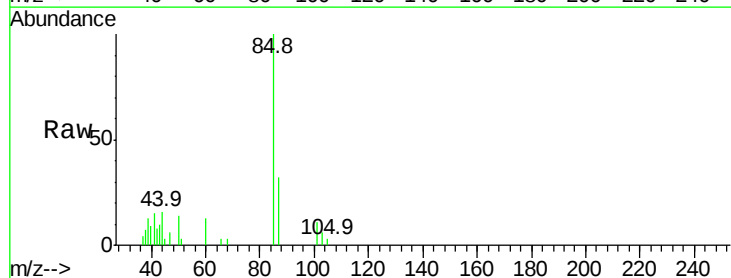
Acq: 24 Mar 2022 21:36

Tgt Ion: 85 Resp: 10331

Ion Ratio Lower Upper

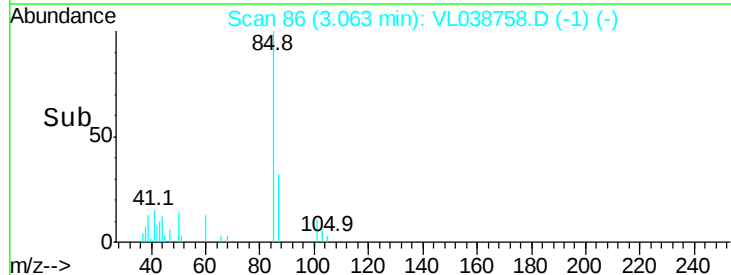
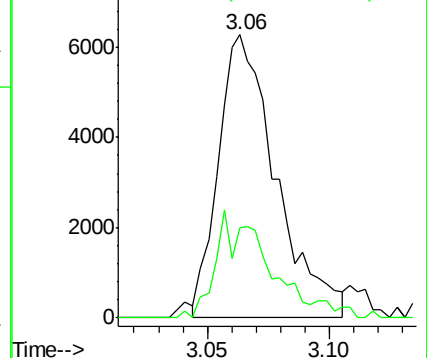
85 100

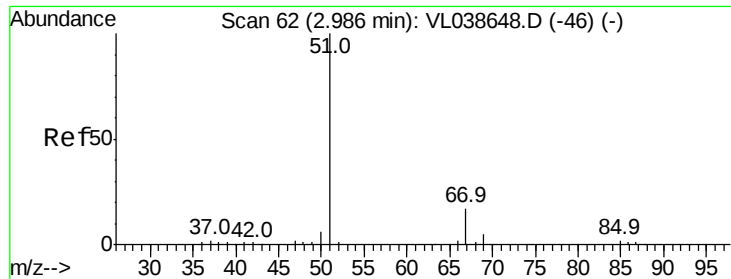
87 33.3 26.0 39.0



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: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

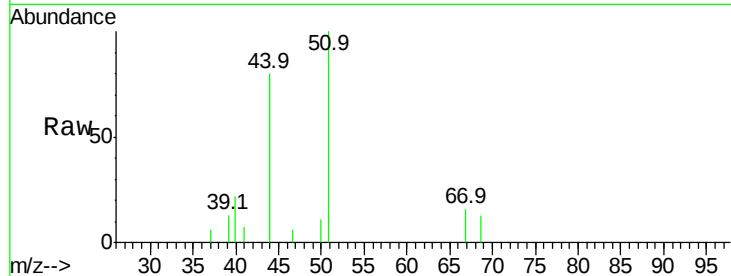
Acq: 24 Mar 2022 21:30

Tgt Ion: 51 Resp: 5935

Ion Ratio Lower Upper

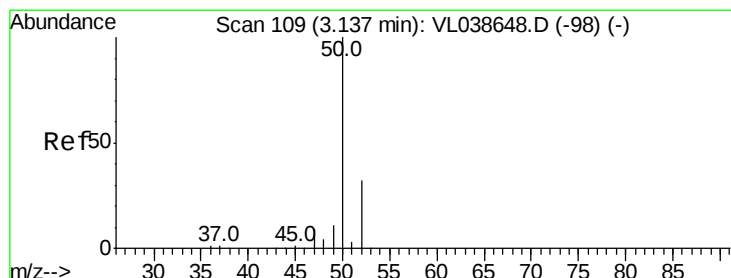
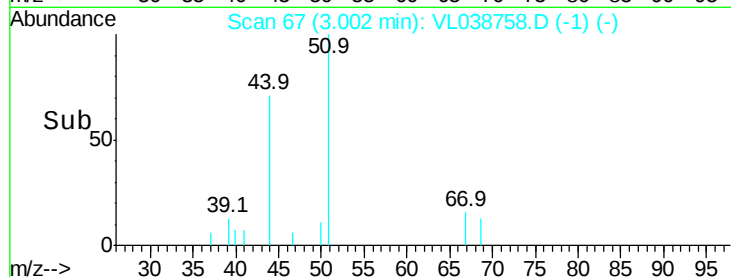
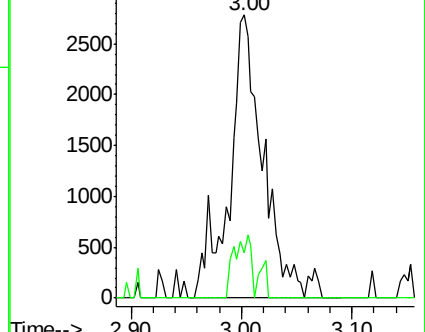
51 100

67 14.0 14.1 21.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.06 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL038758.D

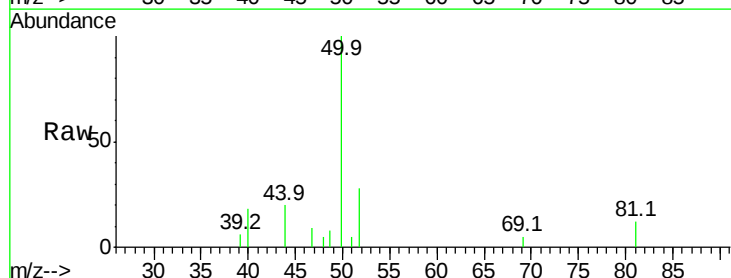
Acq: 24 Mar 2022 21:36

Tgt Ion: 50 Resp: 2610

Ion Ratio Lower Upper

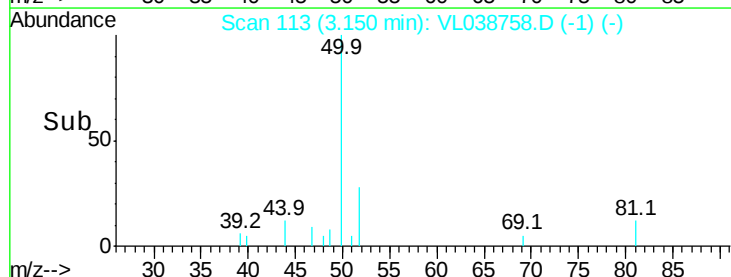
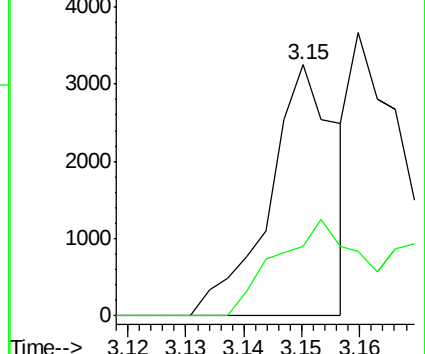
50 100

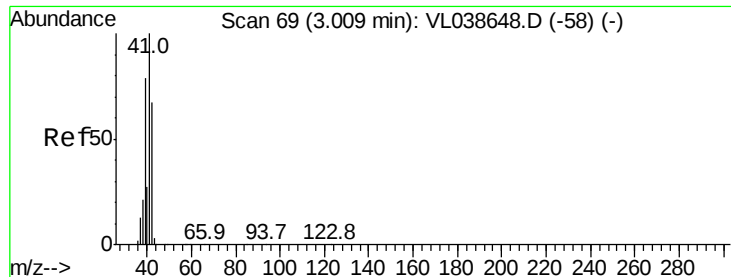
52 27.8 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.19 ppbv

RT: 3.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

V-10DL

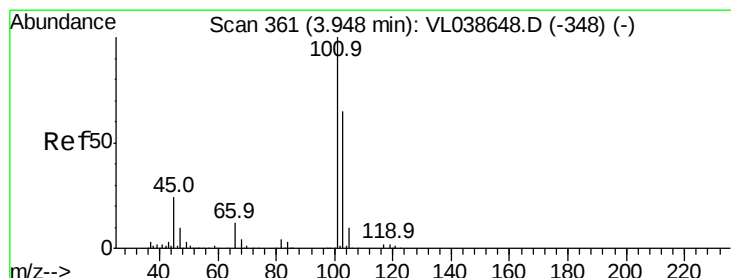
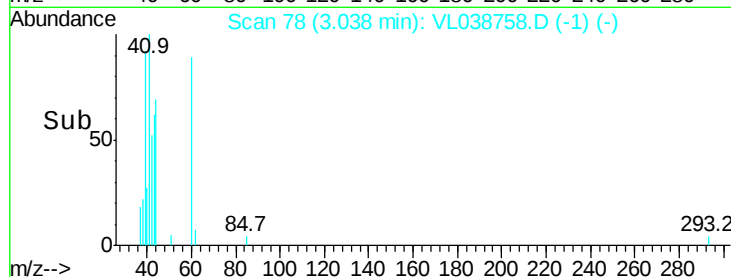
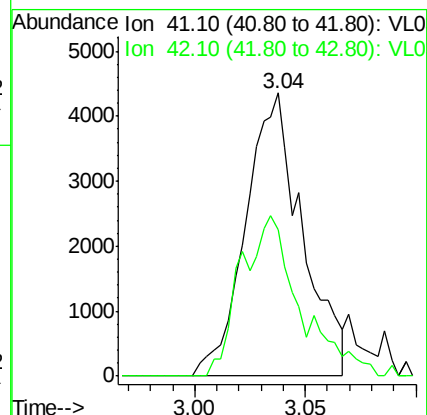
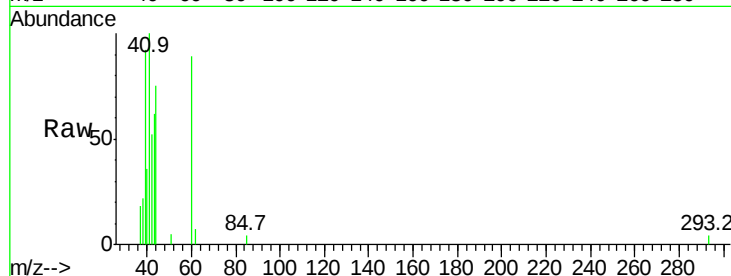
Acq: 24 Mar 2022 21:30

Tgt Ion: 41 Resp: 7777

Ion Ratio Lower Upper

41 100

42 59.8 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.04 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL038758.D

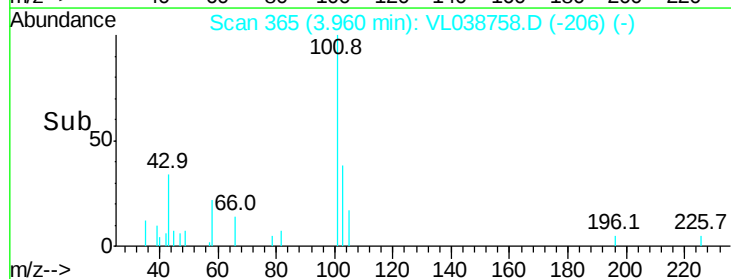
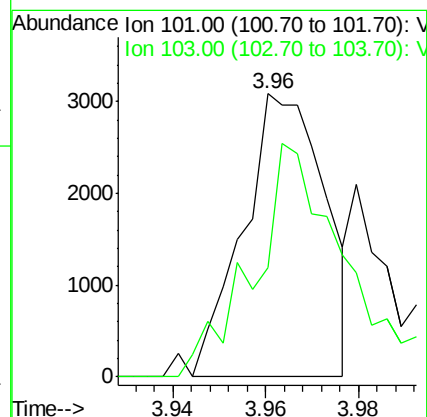
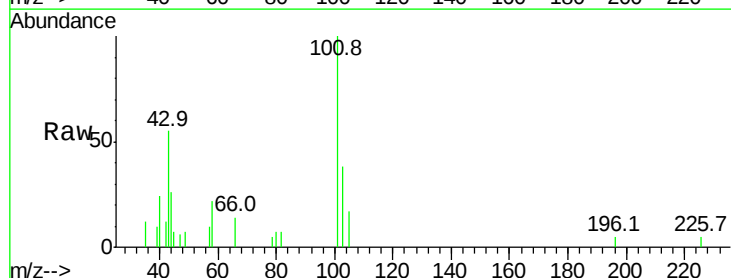
Acq: 24 Mar 2022 21:36

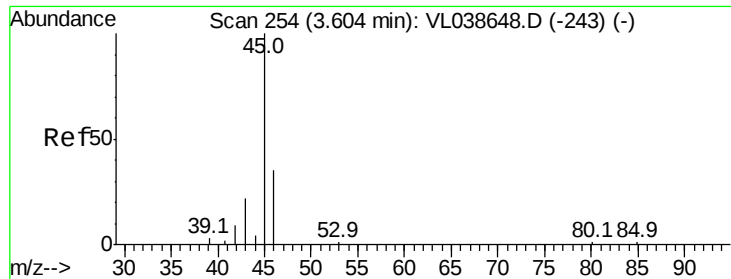
Tgt Ion: 101 Resp: 3789

Ion Ratio Lower Upper

101 100

103 30.4 51.9 77.9#





#13

Ethanol

Concen: 1.54 ppbv

RT: 3.62 Instrument: MSVOA_1

Delta R.T. 0.03 min

Lab File: VL038758.D ClientSampleId: V-10DL

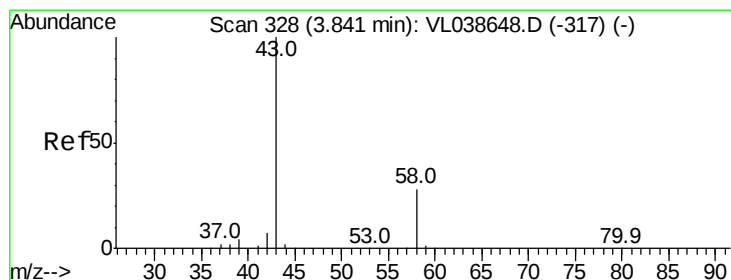
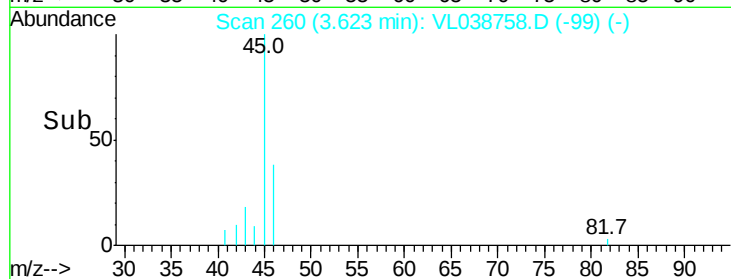
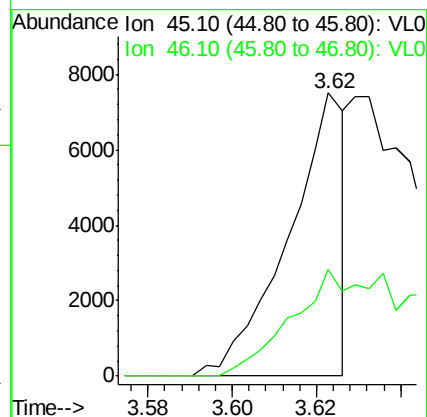
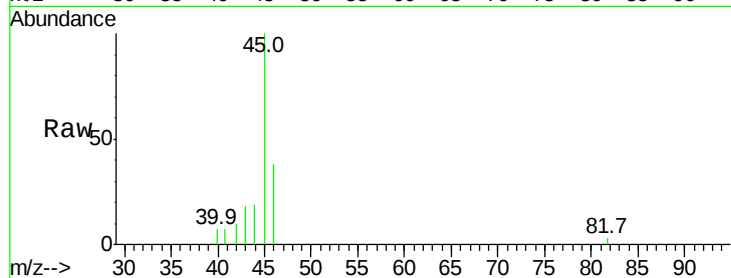
Acq: 24 Mar 2022 21:36

Tgt Ion: 45 Resp: 6991

Ion Ratio Lower Upper

45 100

46 114.0 15.1 60.5#



#15

Acetone

Concen: 1.23 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.03 min

Lab File: VL038758.D

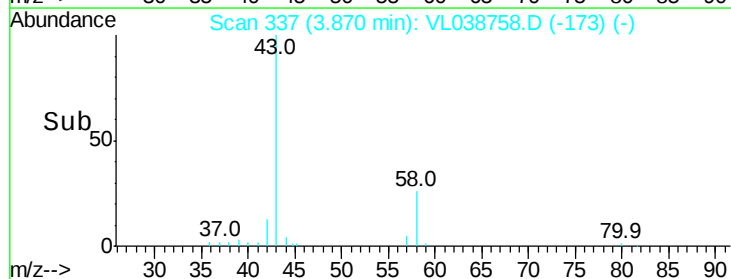
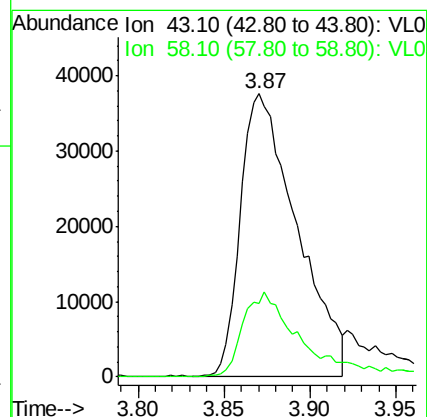
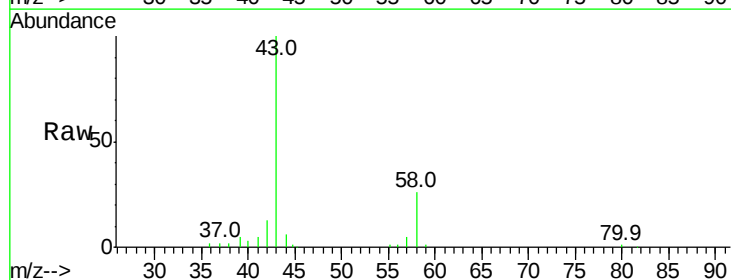
Acq: 24 Mar 2022 21:36

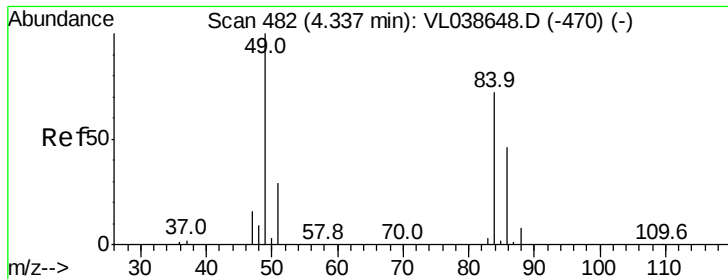
Tgt Ion: 43 Resp: 85840

Ion Ratio Lower Upper

43 100

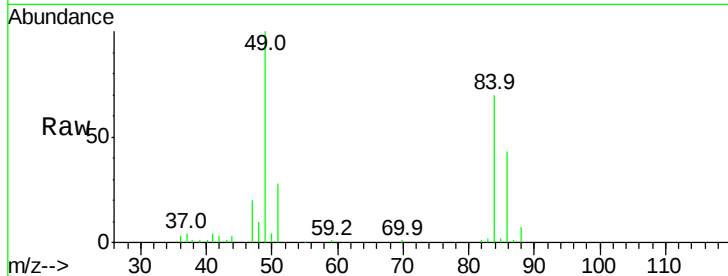
58 31.9 23.3 34.9



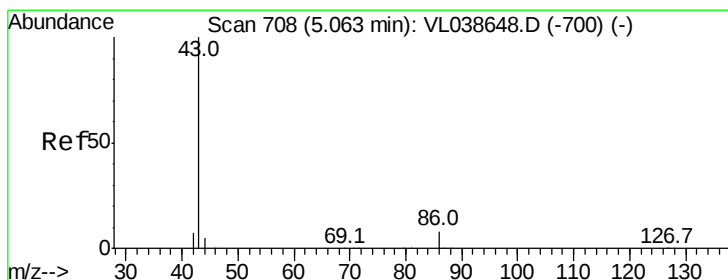
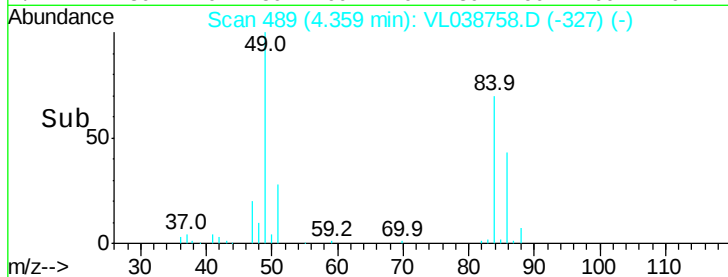
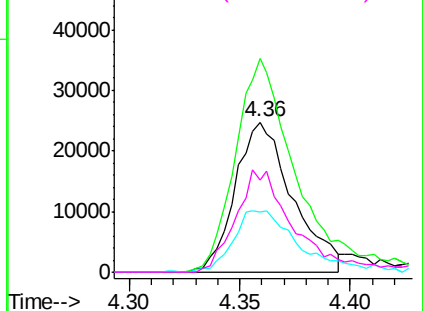


#20
Methylene Chloride
Concen: 1.52 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 21:36

Tgt Ion:	84	Resp:	44791
Ion	Ratio	Lower	Upper
84	100		
49	140.8	111.2	166.8
51	40.3	32.8	49.2
86	61.1	51.4	77.0

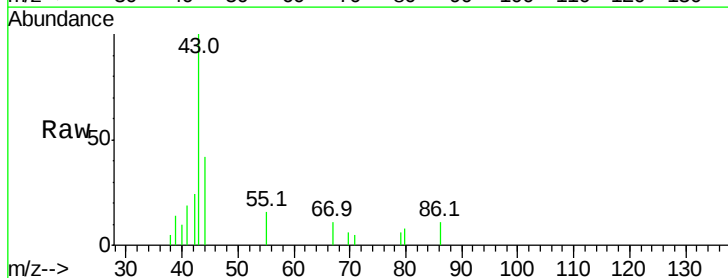


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

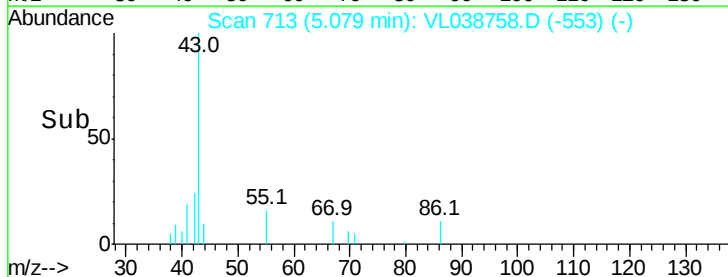
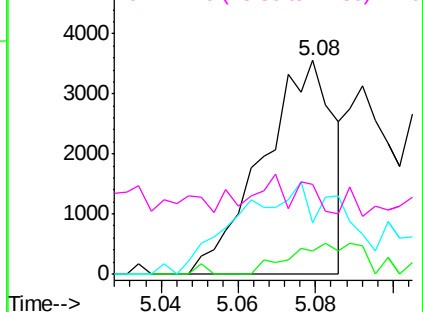


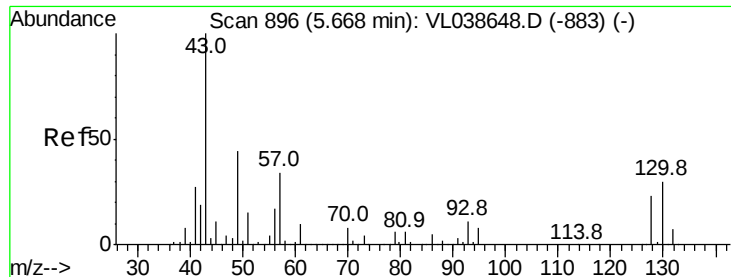
#23
Vinyl Acetate
Concen: 0.07 ppbv
RT: 5.08 min Scan# 713
Delta R.T. 0.02 min
Lab File: VL038758.D
Acq: 24 Mar 2022 21:36

Tgt Ion:	43	Resp:	4533
Ion	Ratio	Lower	Upper
43	100		
86	10.6	5.6	8.4#
42	18.0	6.8	10.2#
44	13.8	4.2	6.2#



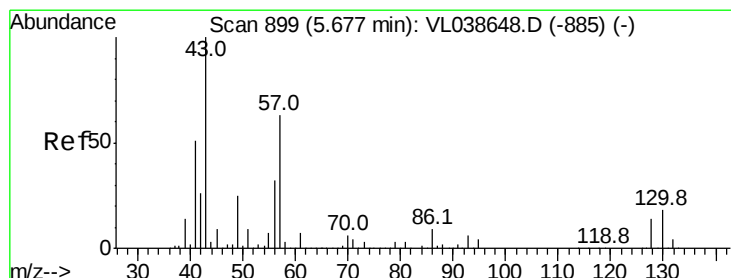
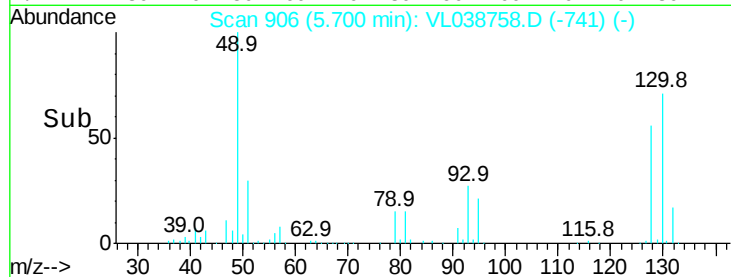
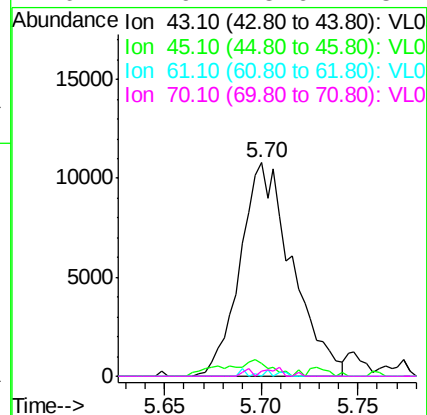
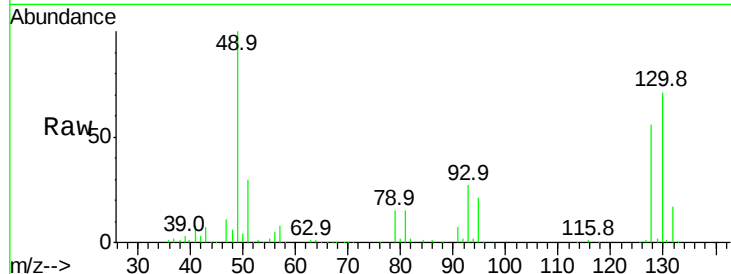
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





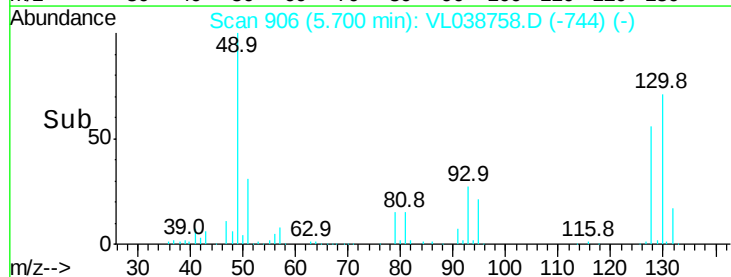
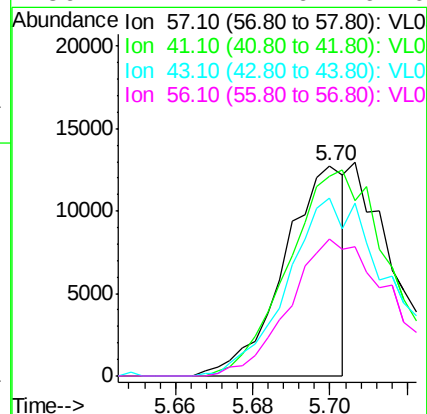
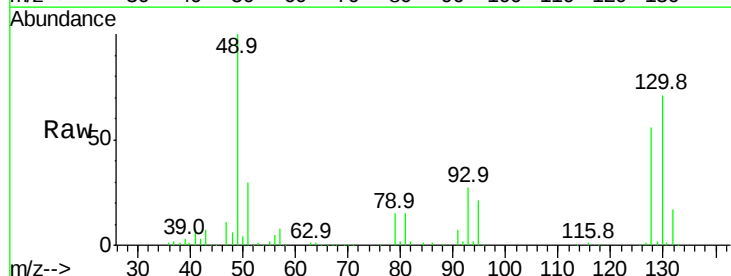
#25
Ethyl Acetate
Concen: 0.11 ppbv
RT: 5.70 min
Delta R.T.: 0.02 min
Lab File: VL038648.D
Acq: 24 Mar 2022 21:36

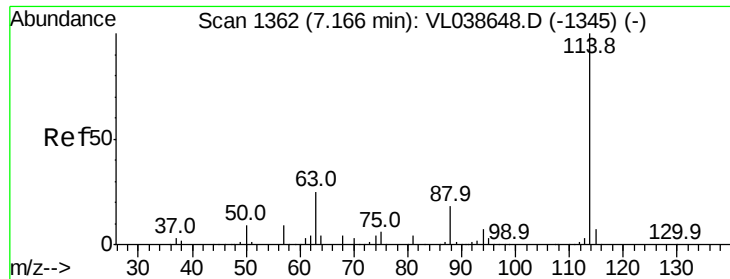
Tgt Ion:	43	Resp:	20147
Ion	Ratio	Lower	Upper
43	100		
45	8.6	8.2	12.4
61	1.2	8.3	12.5#
70	1.9	5.6	8.4#



#26
Hexane
Concen: 0.17 ppbv
RT: 5.70 min Scan# 906
Delta R.T.: 0.02 min
Lab File: VL038758.D
Acq: 24 Mar 2022 21:36

Tgt Ion:	57	Resp:	13761
Ion	Ratio	Lower	Upper
57	100		
41	0.0	67.0	100.4#
43	156.0	184.2	276.2#
56	117.2	42.6	64.0#





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 21:30

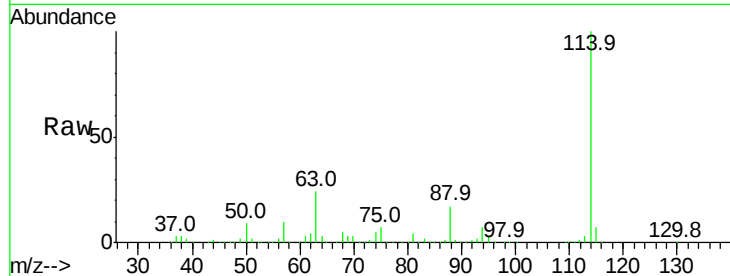
Tgt Ion:114 Resp: 2090152

Ion Ratio Lower Upper

114 100

63 23.9 19.4 29.0

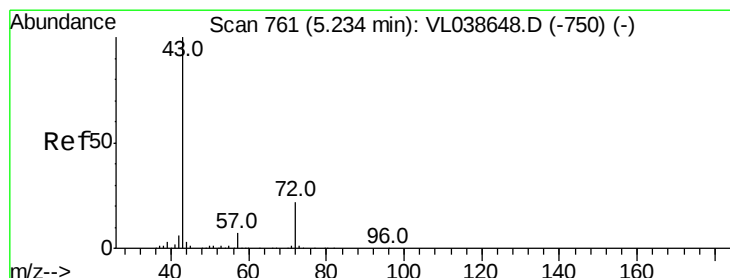
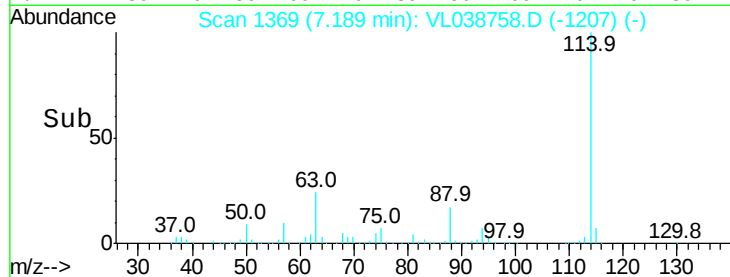
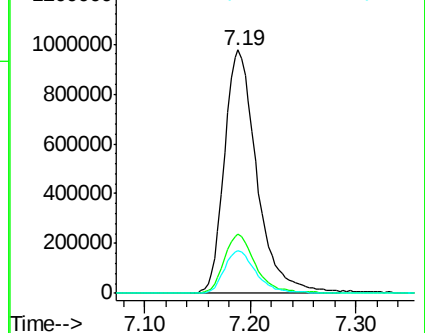
88 17.3 13.9 20.9



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: 0.09 ppbv

RT: 5.28 min Scan# 776

Delta R.T. 0.05 min

Lab File: VL038758.D

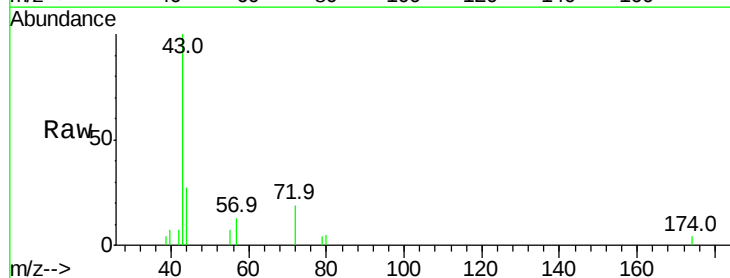
Acq: 24 Mar 2022 21:36

Tgt Ion: 43 Resp: 7816

Ion Ratio Lower Upper

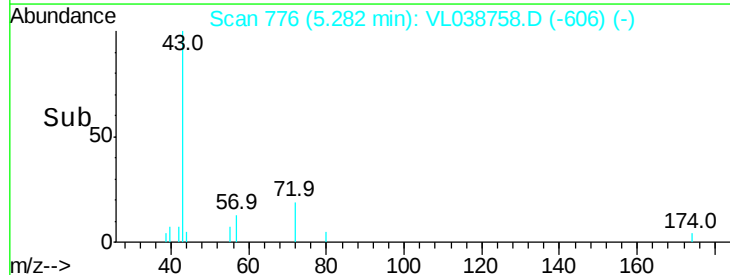
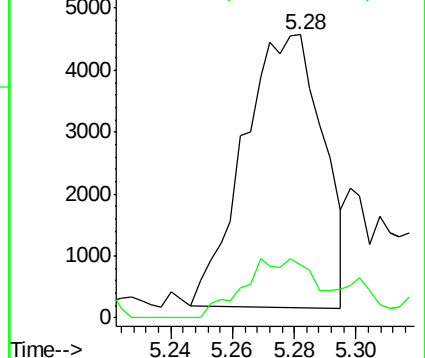
43 100

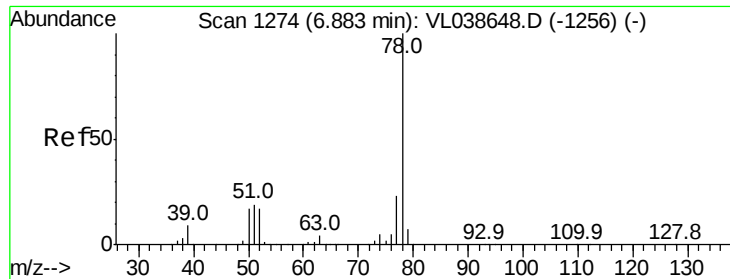
72 29.5 17.8 26.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.07 ppbv

RT: 6.91

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 21:30

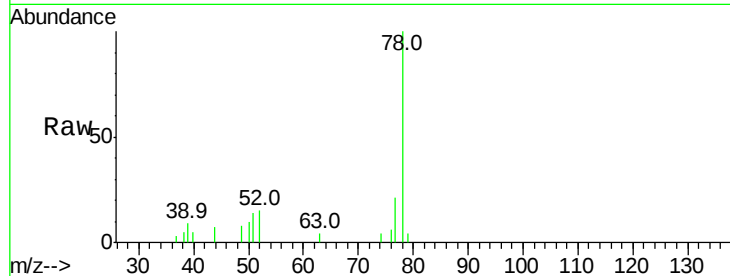
Tgt Ion: 78 Resp: 10941

Ion Ratio Lower Upper

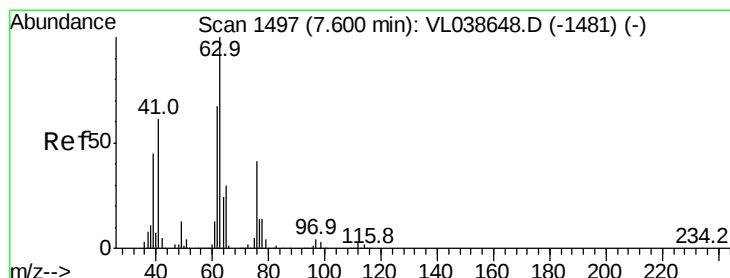
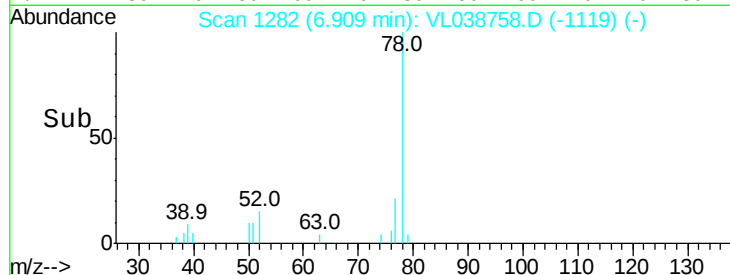
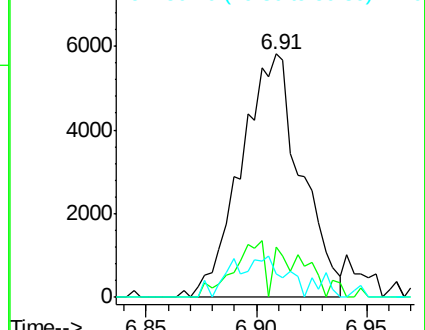
78 100

77 20.9 18.1 27.1

50 24.0 13.6 20.4#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.76 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.41 min

Lab File: VL038758.D

Acq: 24 Mar 2022 21:36

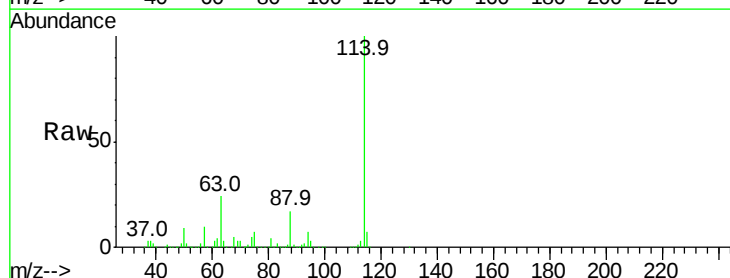
Tgt Ion: 63 Resp: 489452

Ion Ratio Lower Upper

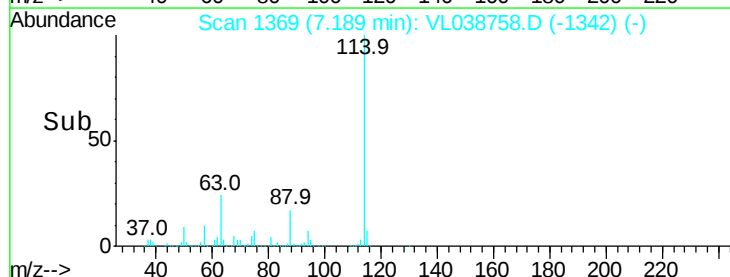
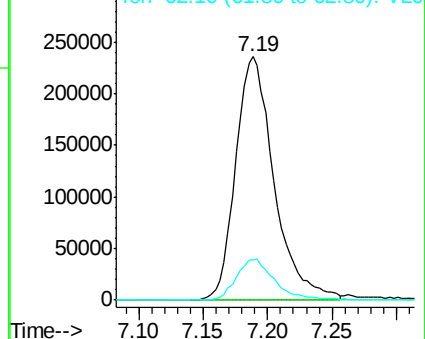
63 100

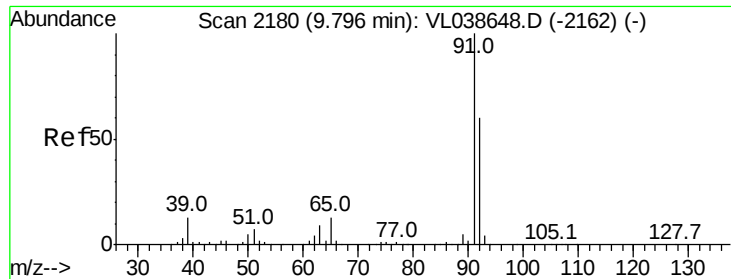
41 0.0 49.0 73.6#

62 16.7 53.9 80.9#



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





#53

Toluene

Concen: 0.09 ppbv

RT: 9.82 Instrument: MSVOA_1

Delta R.T. 0.02 min

Lab File: ClientSampleId: V-10DL

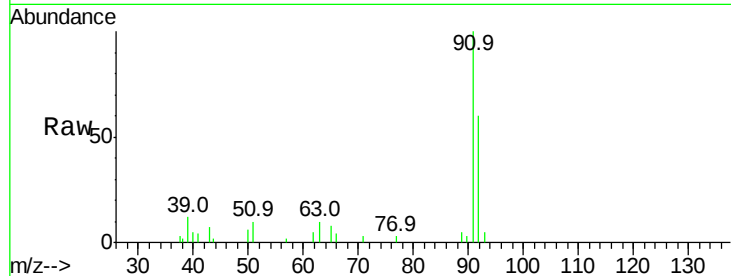
Acq: 24 Mar 2022 21:30

Tgt Ion: 91 Resp: 16005

Ion Ratio Lower Upper

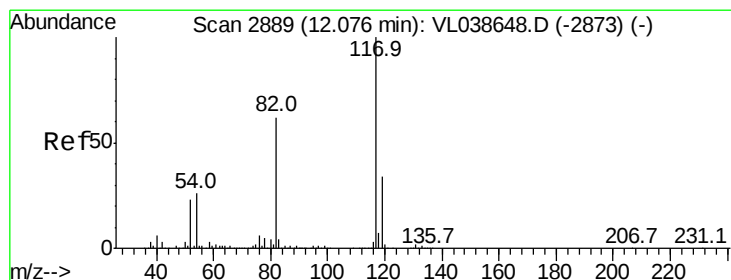
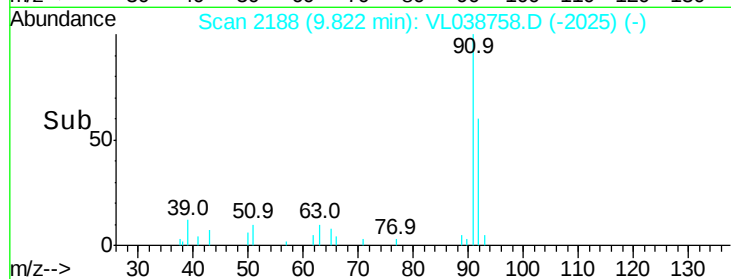
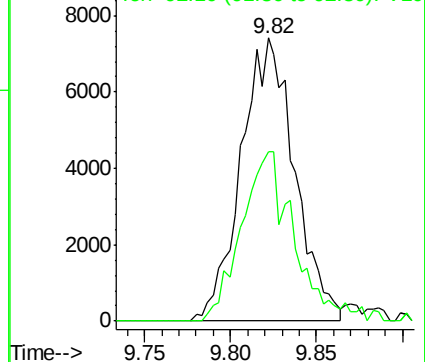
91 100

92 60.1 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.02 min

Lab File: VL038758.D

Acq: 24 Mar 2022 21:36

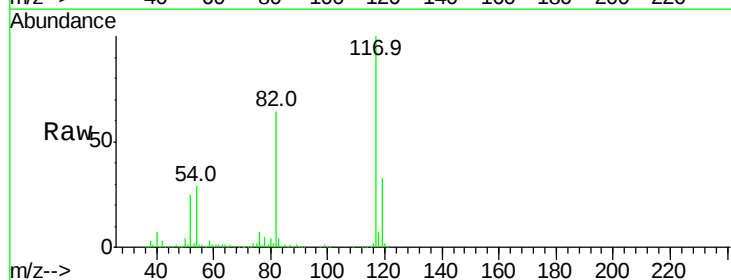
Tgt Ion: 117 Resp: 1766367

Ion Ratio Lower Upper

117 100

82 65.3 51.6 77.4

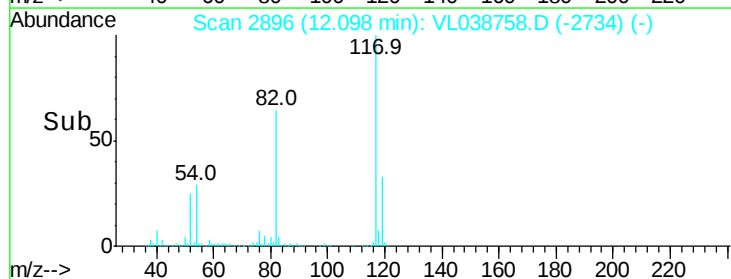
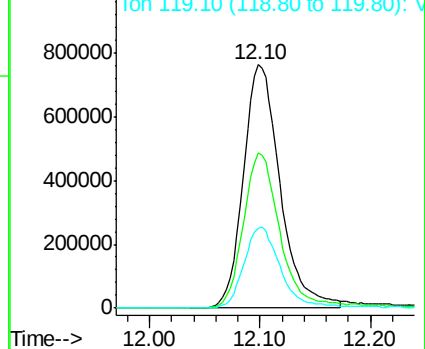
119 34.2 26.9 40.3

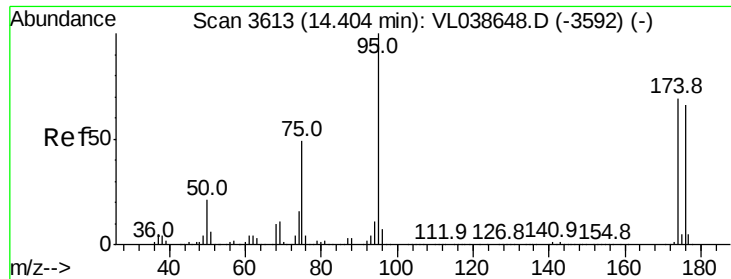


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.48 ppbv

RT: 14.43

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

V-10DL

Acq: 24 Mar 2022 21:30

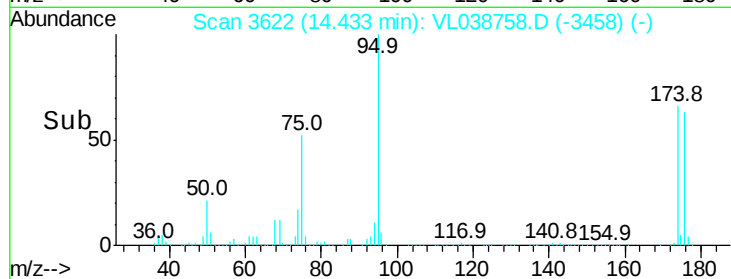
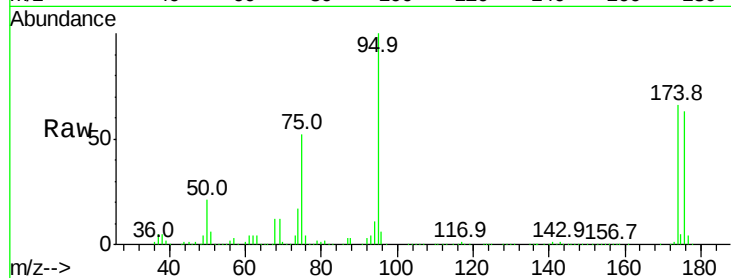
Tgt Ion: 95 Resp: 1283693

Ion Ratio Lower Upper

95 100

174 74.4 56.1 84.1

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

