

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL051122\
 Data File : VL039027.D
 Acq On : 11 May 2022 19:45
 Operator : SY/AP
 Sample : N2753-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

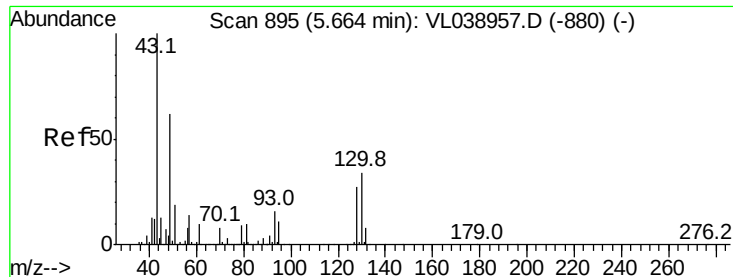
Quant Time: May 12 01:57:00 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	997899	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	2574958	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2147134	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	1616964	9.51	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.05	85	8857	0.06	ppbv	90
3) Chlorodifluoromethane	2.98	51	21939	0.18	ppbv #	73
4) Chloromethane	3.13	50	7497	0.12	ppbv #	81
9) Propene	3.02	41	10817	0.20	ppbv	93
13) Ethanol	3.59	45	46085	12.04	ppbv	98
15) Acetone	3.84	43	263056	2.79	ppbv	97
19) Isopropyl Alcohol	3.96	45	7221	0.16	ppbv #	95
20) Methylene Chloride	4.33	84	159017	4.48	ppbv	94
23) Vinyl Acetate	5.04	43	4895	0.07	ppbv #	92
25) Ethyl Acetate	5.67	43	173933	0.77	ppbv #	76
26) Hexane	5.67	57	241239	2.41	ppbv #	39
34) 2-Butanone	5.24	43	11490	0.09	ppbv #	75
39) 1,2-Dichloropropane	7.15	63	633496	7.39	ppbv #	27
41) Tetrahydrofuran	5.67	42	85232	0.97	ppbv #	51
53) Toluene	9.78	91	15260	0.06	ppbv #	59

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1DL

Acq: 11 May 2022 19:45

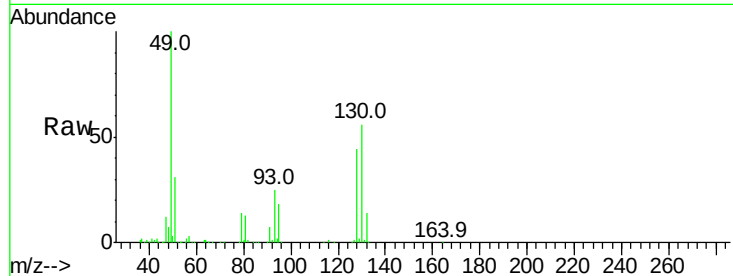
Tgt Ion: 49 Resp: 997899

Ion Ratio Lower Upper

49 100

128 47.7 23.3 69.8

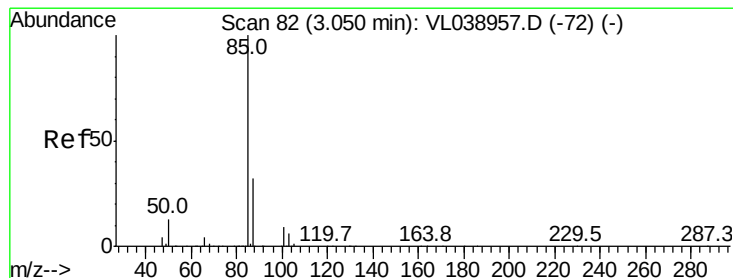
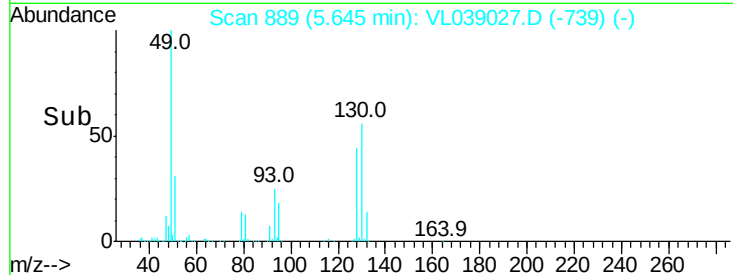
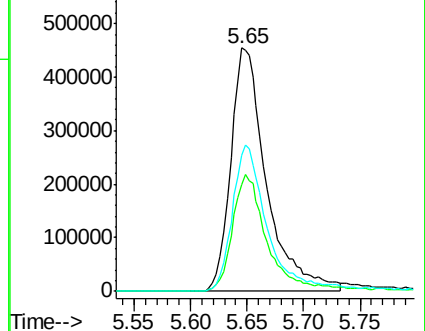
130 61.6 29.8 89.3



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: 0.06 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL039027.D

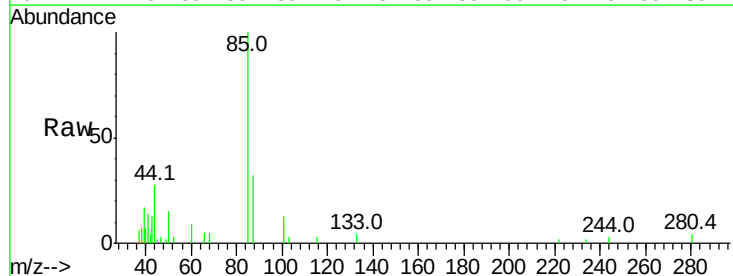
Acq: 11 May 2022 19:45

Tgt Ion: 85 Resp: 8857

Ion Ratio Lower Upper

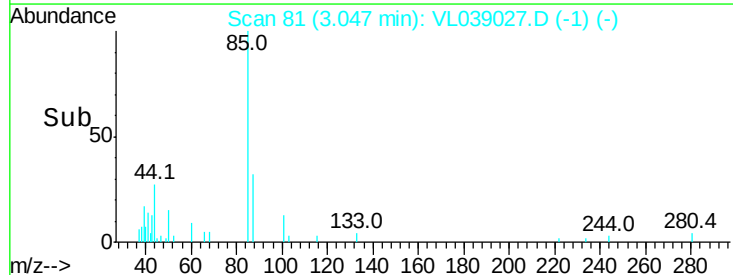
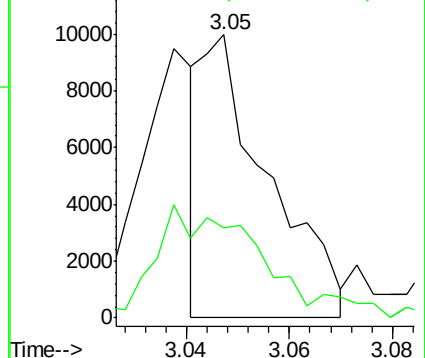
85 100

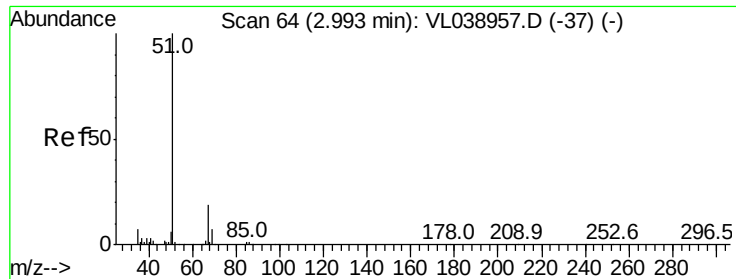
87 26.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

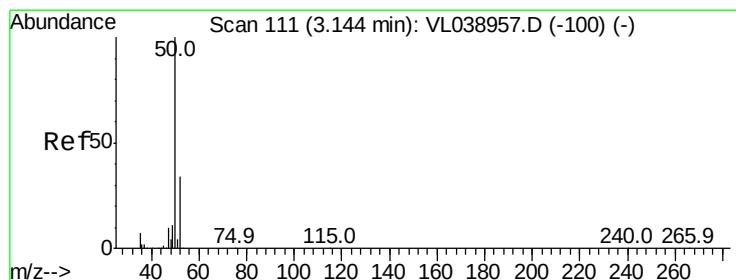
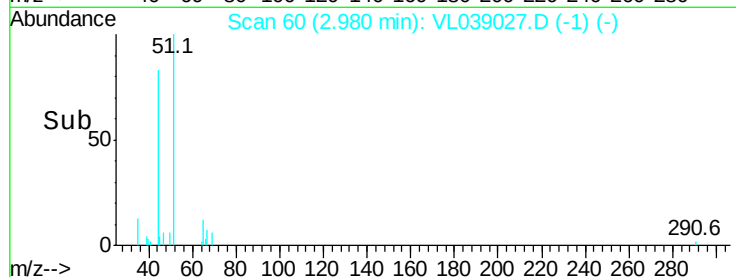
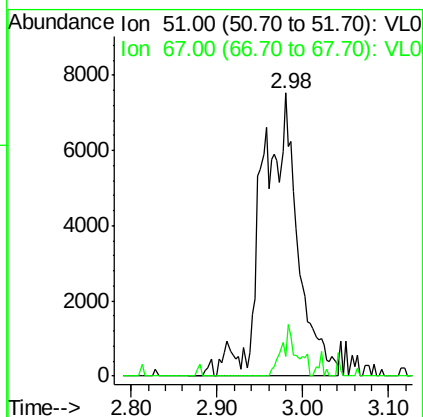
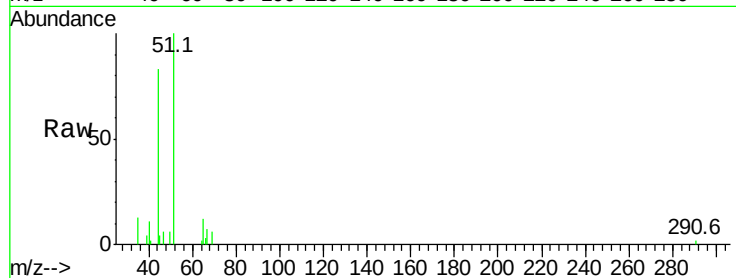
Ion 87.00 (86.70 to 87.70): VL0





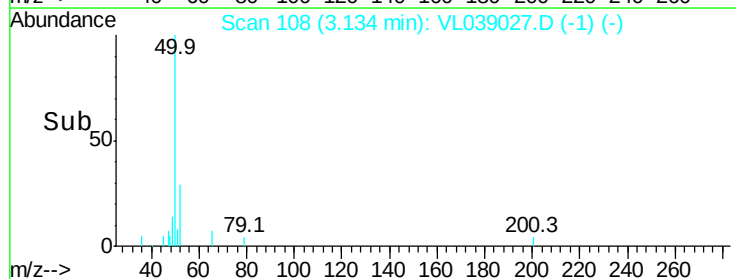
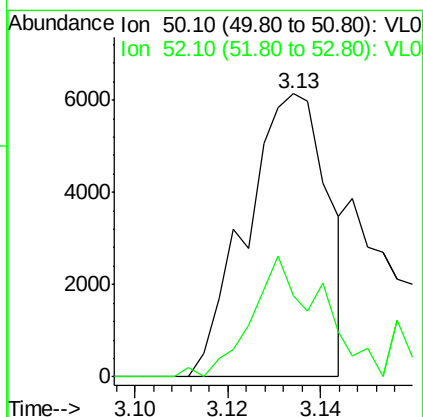
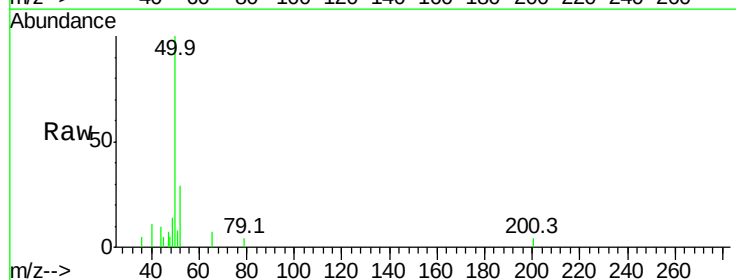
#3
Chlorodifluoromethane
Concen: 0.18 ppbv
RT: 2.98
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 11 May 2022 19:45

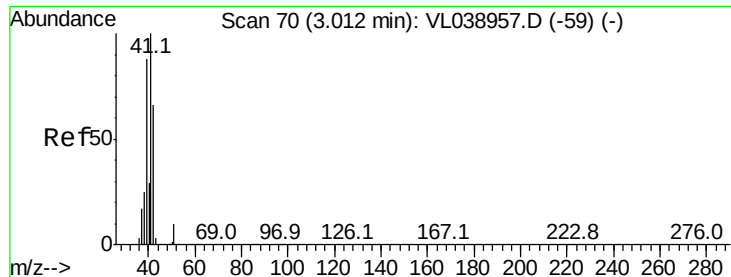
Tgt Ion: 51 Resp: 21939
Ion Ratio Lower Upper
51 100
67 7.5 15.8 23.8#



#4
Chloromethane
Concen: 0.12 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL039027.D
Acq: 11 May 2022 19:45

Tgt Ion: 50 Resp: 7497
Ion Ratio Lower Upper
50 100
52 23.5 27.3 40.9#





#9

Propene

Concen: 0.20 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

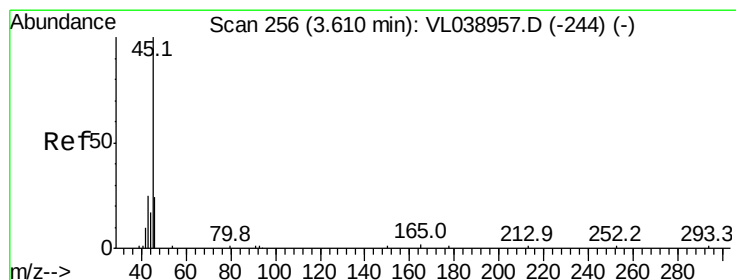
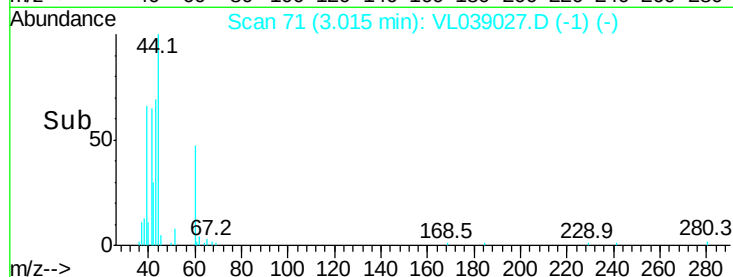
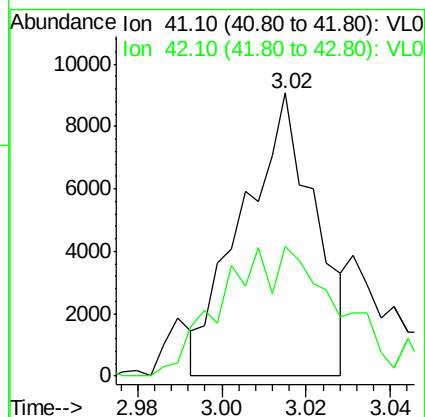
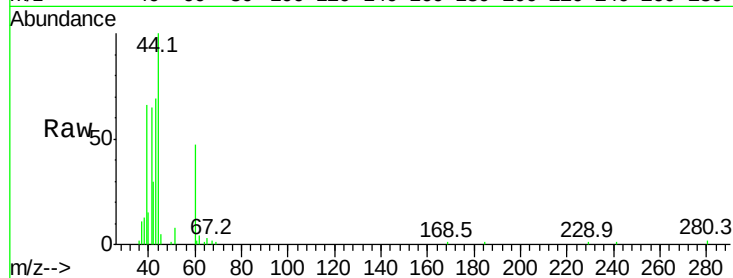
Acq: 11 May 2022 19:45

Tgt Ion: 41 Resp: 10817

Ion Ratio Lower Upper

41 100

42 78.8 58.3 87.5



#13

Ethanol

Concen: 12.04 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.02 min

Lab File: VL039027.D

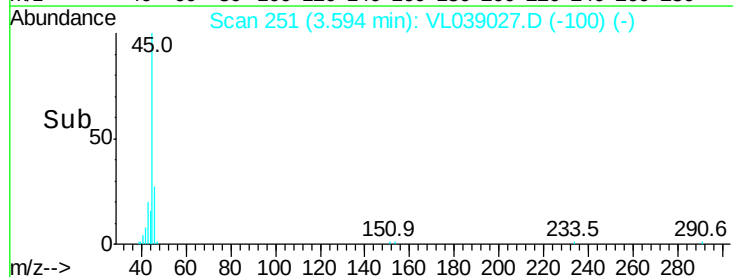
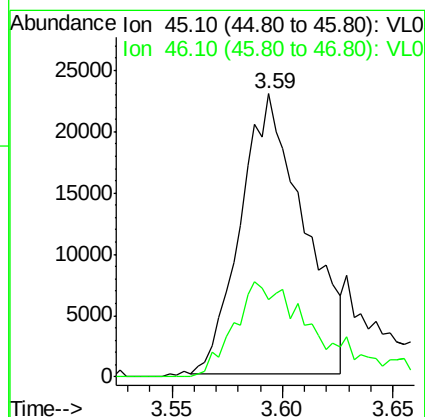
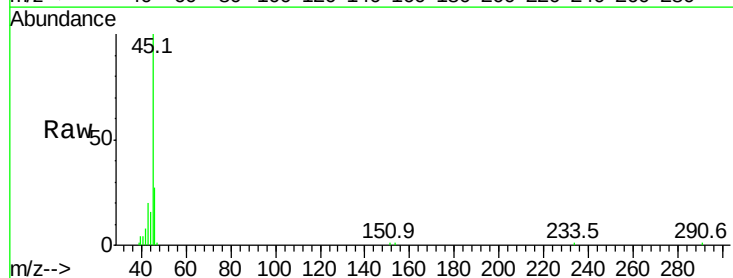
Acq: 11 May 2022 19:45

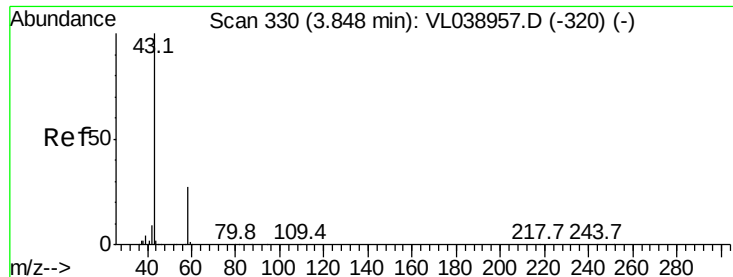
Tgt Ion: 45 Resp: 46085

Ion Ratio Lower Upper

45 100

46 43.5 18.0 72.2





#15

Acetone

Concen: 2.79 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

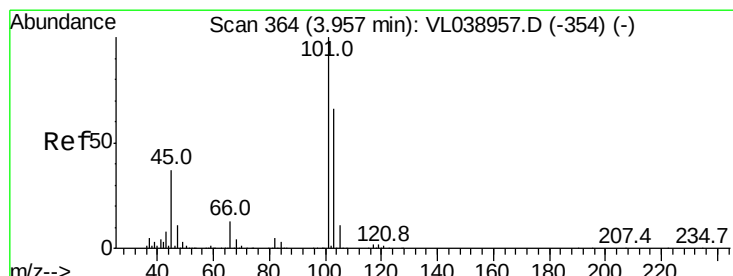
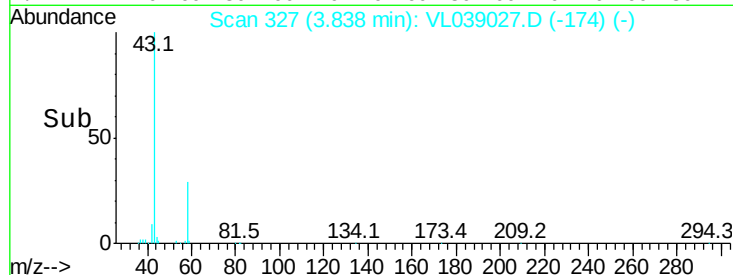
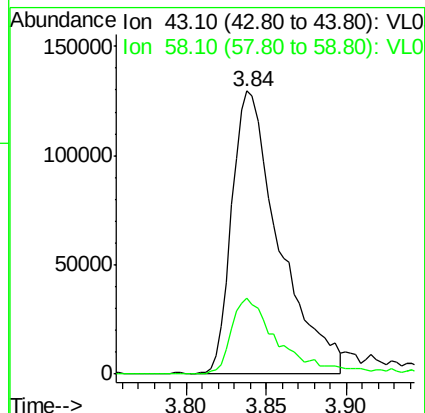
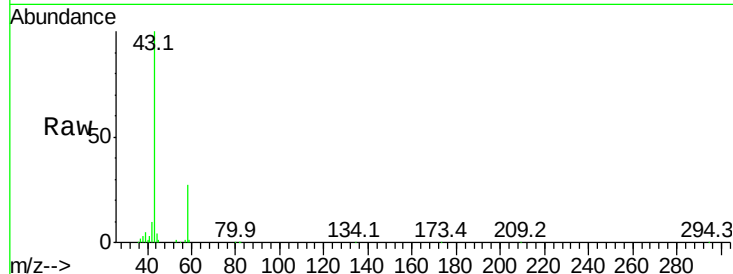
Acq: 11 May 2022 19:45

Tgt Ion: 43 Resp: 263056

Ion Ratio Lower Upper

43 100

58 27.9 21.3 31.9



#19

Isopropyl Alcohol

Concen: 0.16 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL039027.D

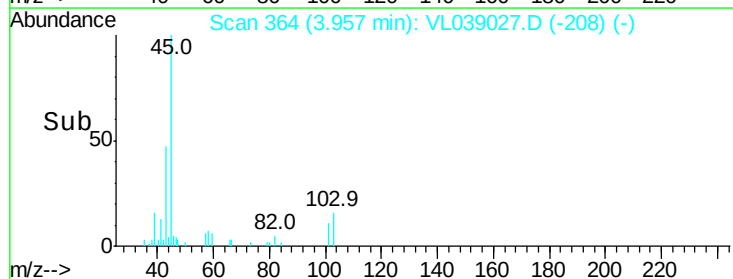
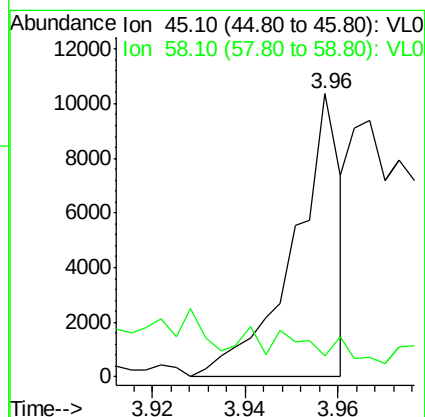
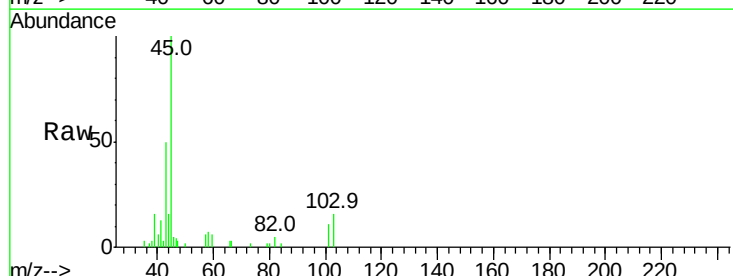
Acq: 11 May 2022 19:45

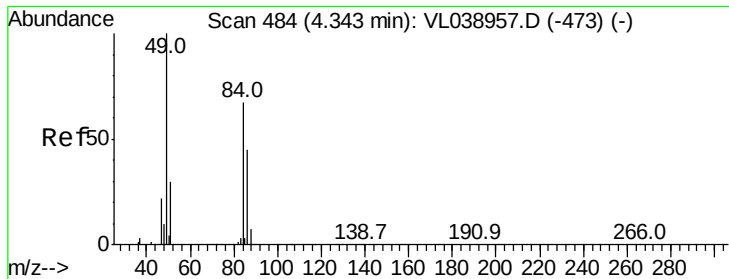
Tgt Ion: 45 Resp: 7221

Ion Ratio Lower Upper

45 100

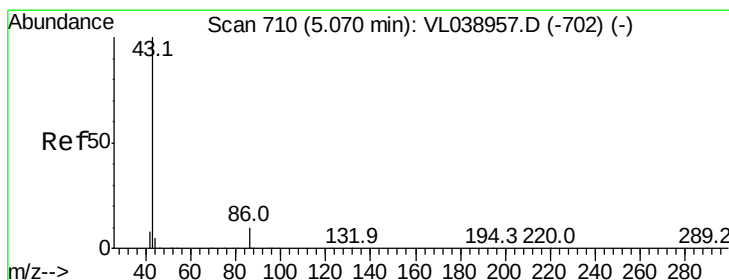
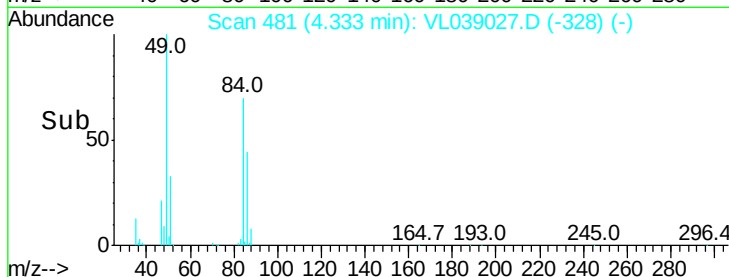
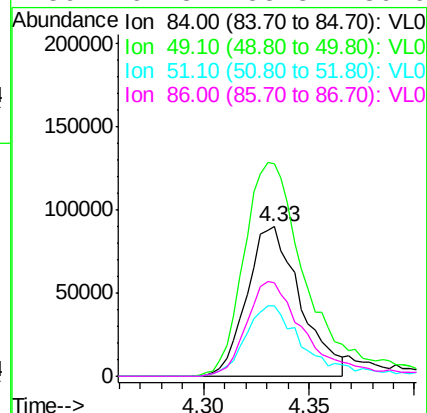
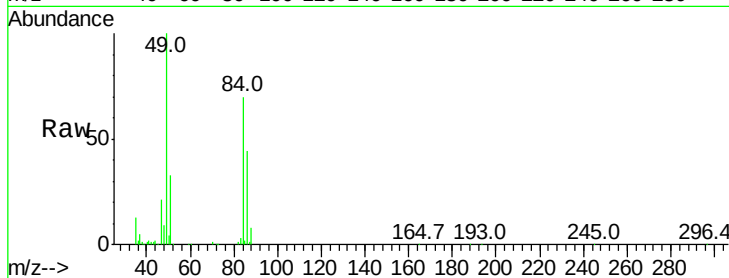
58 0.0 1.4 2.2#





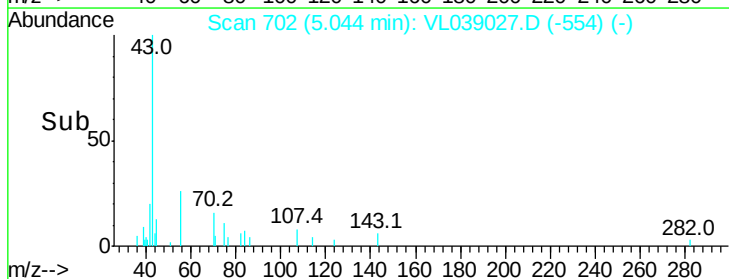
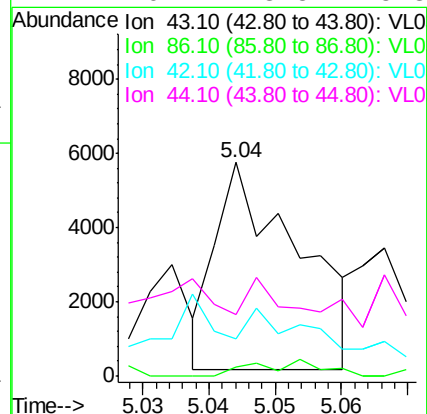
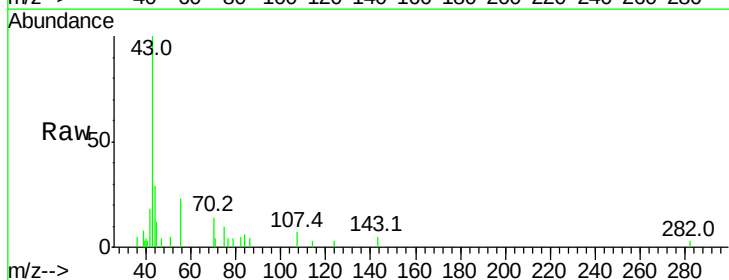
#20
Methylene Chloride
Concen: 4.48 ppbv
RT: 4.33
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 11 May 2022 19:45

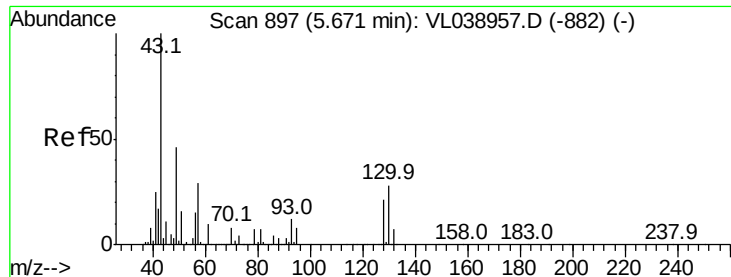
Tgt Ion:	84	Resp:	159017
Ion	Ratio	Lower	Upper
84	100		
49	142.1	119.9	179.9
51	47.0	35.7	53.5
86	62.8	53.8	80.6



#23
Vinyl Acetate
Concen: 0.07 ppbv
RT: 5.04 min Scan# 702
Delta R.T. -0.03 min
Lab File: VL039027.D
Acq: 11 May 2022 19:45

Tgt Ion:	43	Resp:	4895
Ion	Ratio	Lower	Upper
43	100		
86	5.5	6.6	9.8#
42	6.6	8.1	12.1#
44	6.1	3.5	5.3#





#25

Ethyl Acetate

Concen: 0.77 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 11 May 2022 19:45

Tgt Ion: 43 Resp: 173933

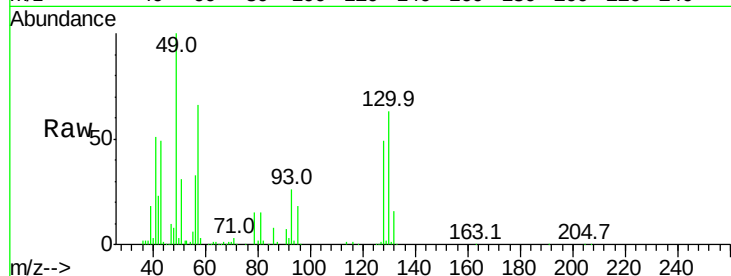
Ion Ratio Lower Upper

43 100

45 0.6 8.1 12.1#

61 0.3 7.8 11.6#

70 0.0 5.6 8.4#

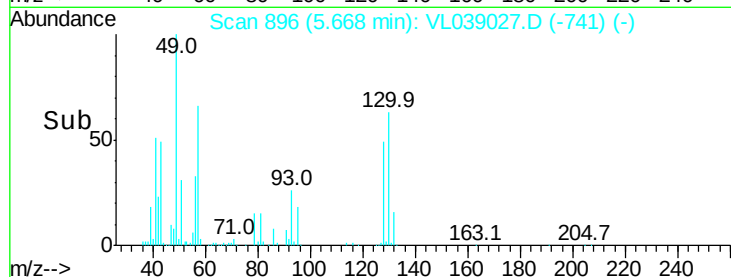
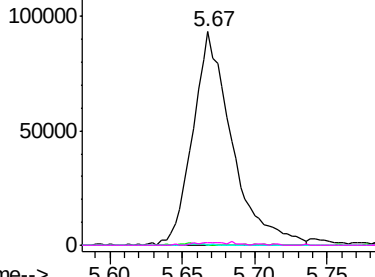


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 2.41 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL039027.D

Acq: 11 May 2022 19:45

Tgt Ion: 57 Resp: 241239

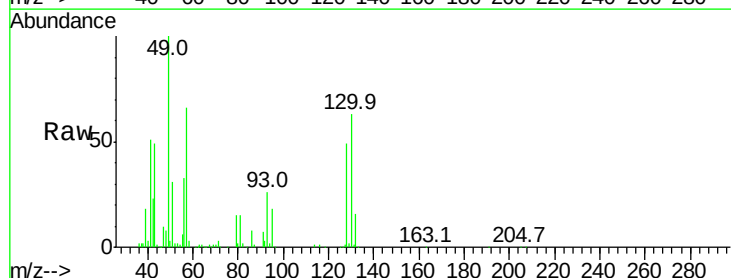
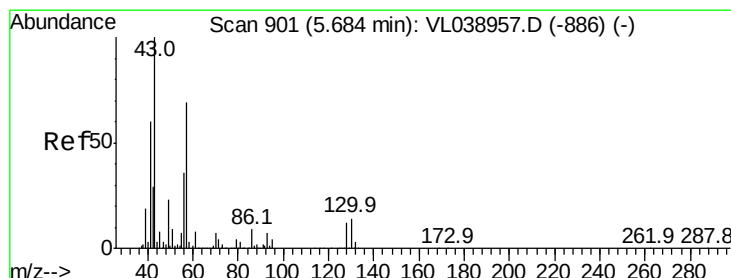
Ion Ratio Lower Upper

57 100

41 88.6 75.2 112.8

43 74.5 190.8 286.2#

56 53.6 43.0 64.6

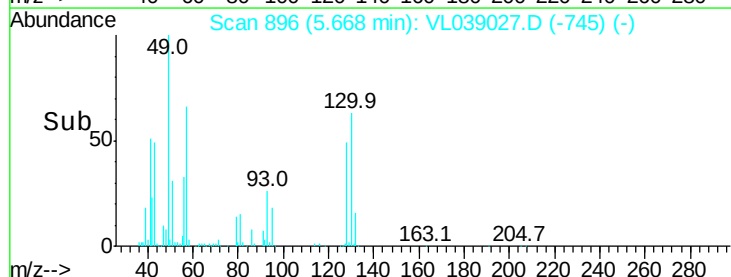
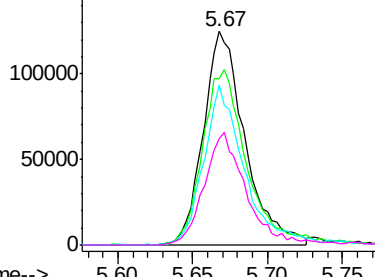


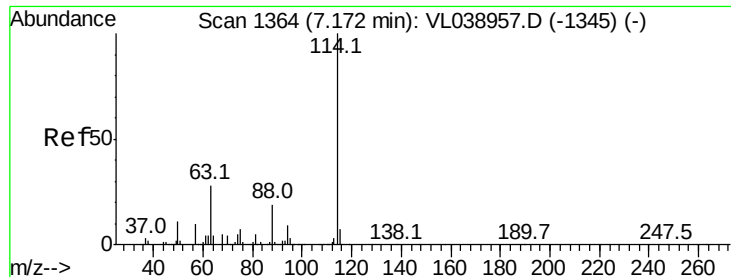
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

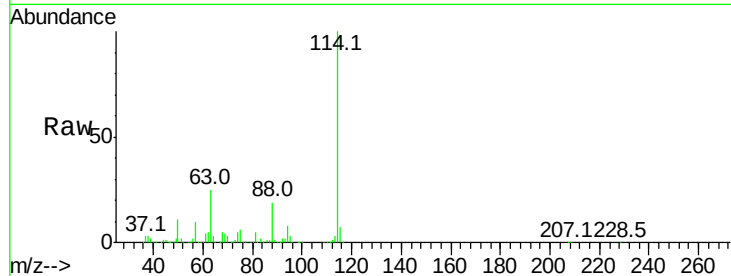




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.15
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 11 May 2022 19:45

Tgt Ion: 114 Resp: 2574958

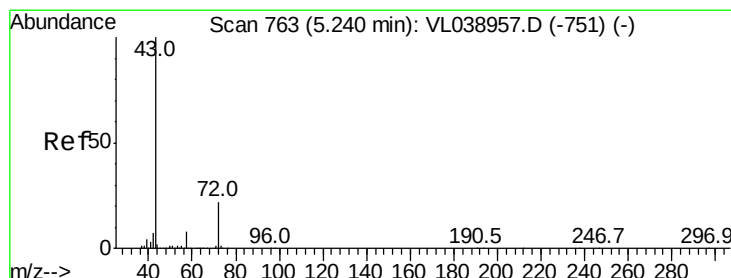
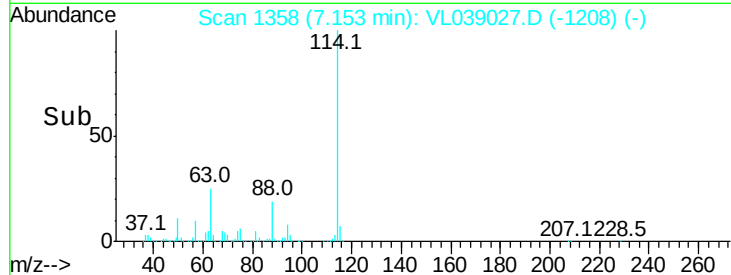
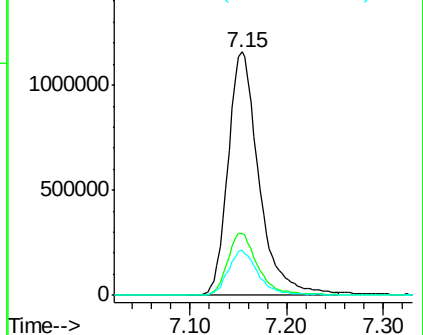
Ion	Ratio	Lower	Upper
114	100		
63	25.6	22.6	33.8
88	18.3	15.4	23.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

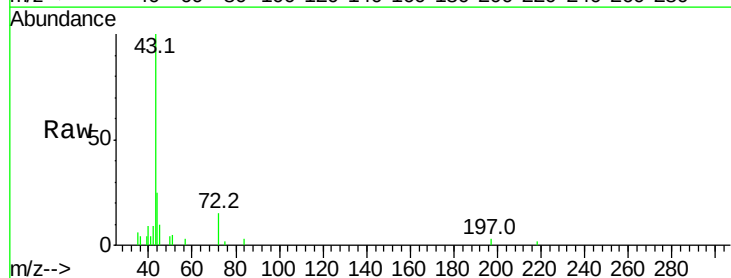
Ion 88.10 (87.80 to 88.80): VL0



#34
 2-Butanone
 Concen: 0.09 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: VL039027.D
 Acq: 11 May 2022 19:45

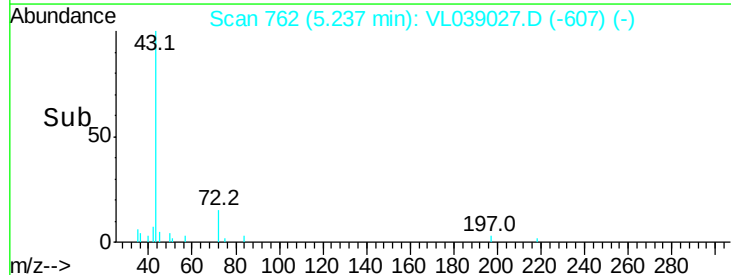
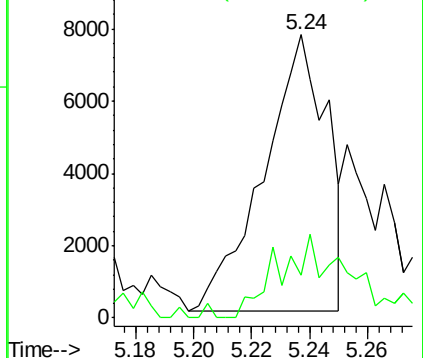
Tgt Ion: 43 Resp: 11490

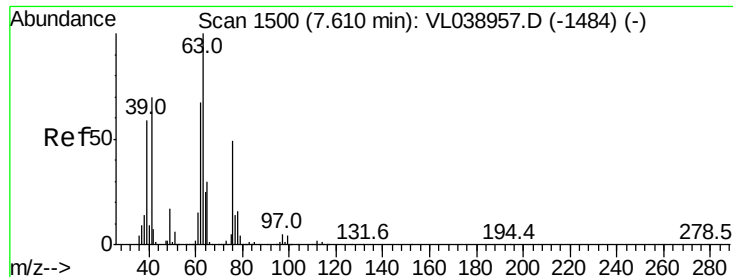
Ion	Ratio	Lower	Upper
43	100		
72	34.3	17.8	26.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.39 ppbv

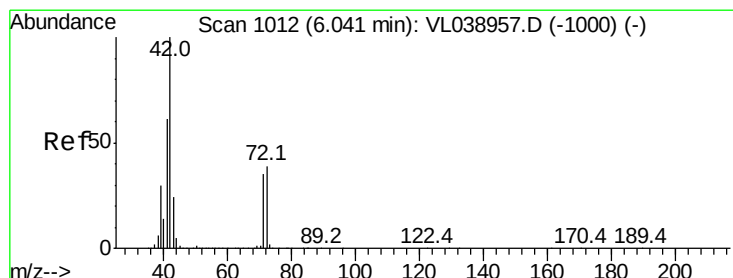
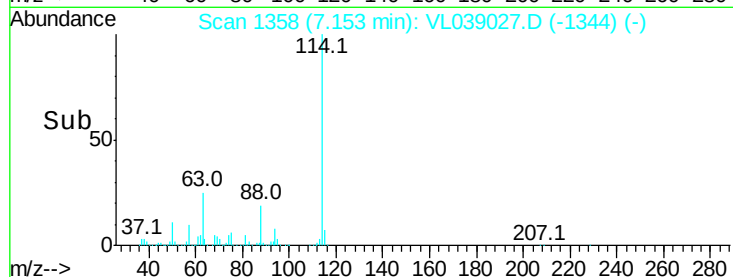
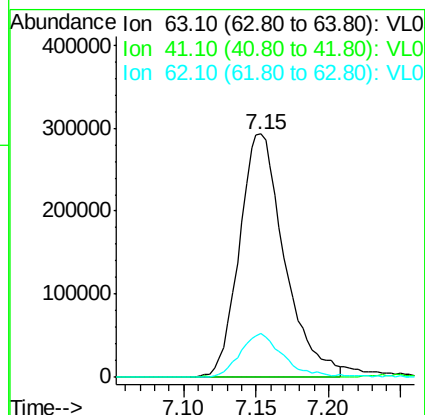
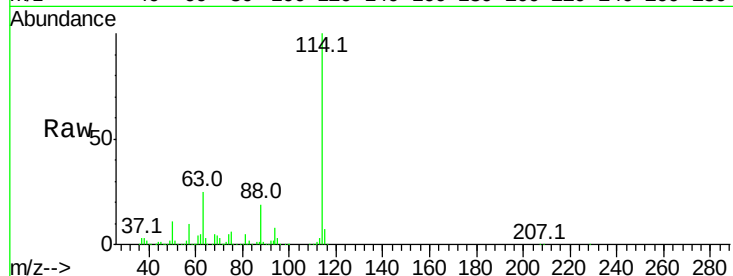
RT: 7.15 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 11 May 2022 19:45

Tgt Ion:	63	Resp:	633496
Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	18.1	53.8	80.6#



#41

Tetrahydrofuran

Concen: 0.97 ppbv

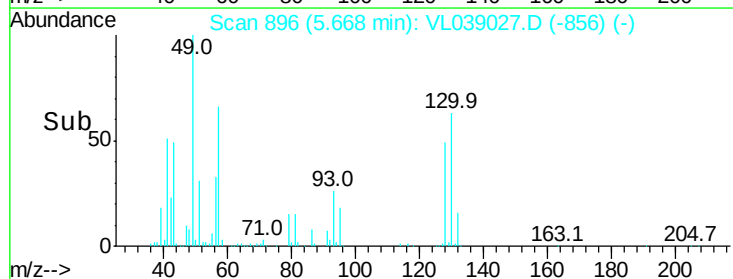
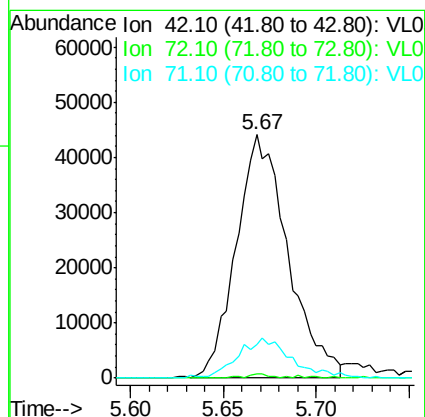
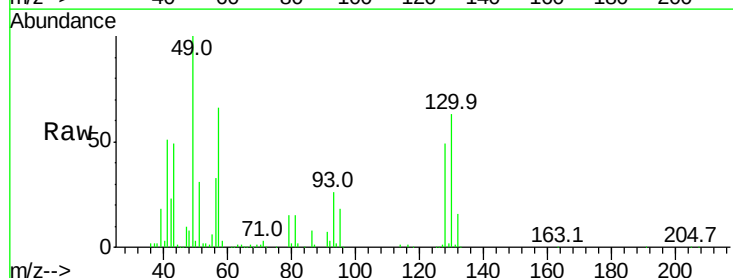
RT: 5.67 min Scan# 896

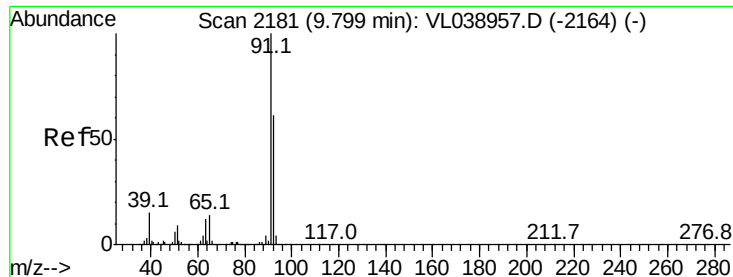
Delta R.T. -0.37 min

Lab File: VL039027.D

Acq: 11 May 2022 19:45

Tgt Ion:	42	Resp:	85232
Ion	Ratio	Lower	Upper
42	100		
72	1.3	31.8	47.6#
71	17.3	30.6	45.8#





#53

Toluene

Concen: 0.06 ppbv

RT: 9.78 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1DL

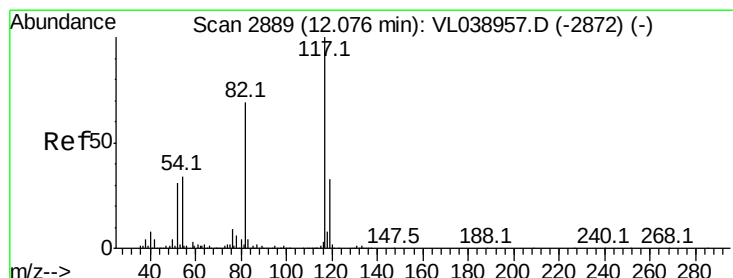
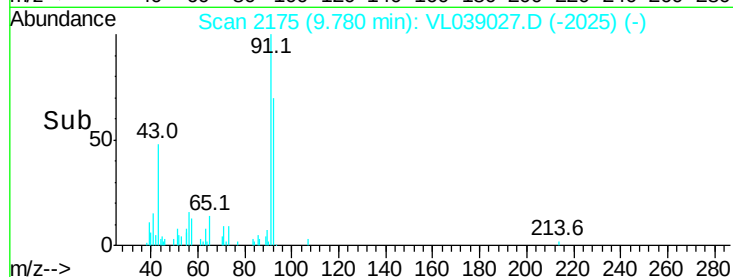
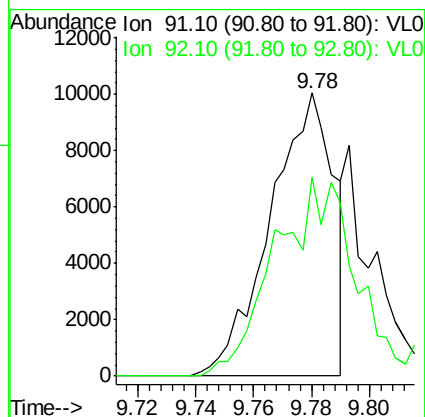
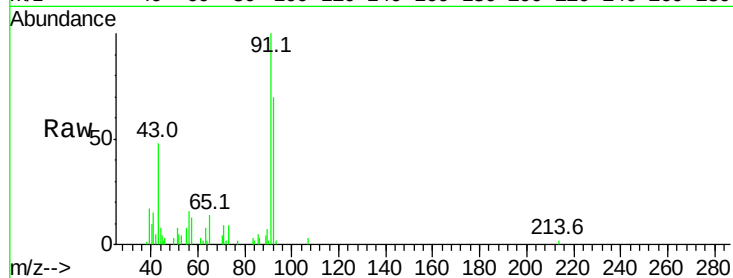
Acq: 11 May 2022 19:45

Tgt Ion: 91 Resp: 15260

Ion Ratio Lower Upper

91 100

92 91.4 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL039027.D

Acq: 11 May 2022 19:45

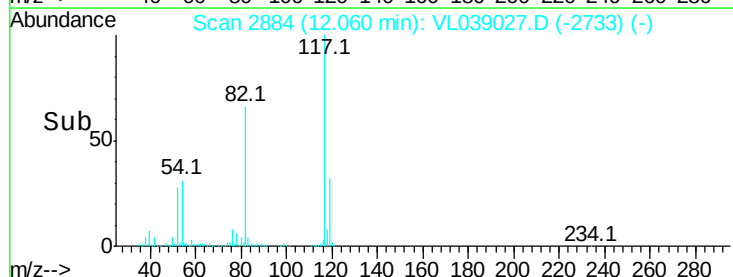
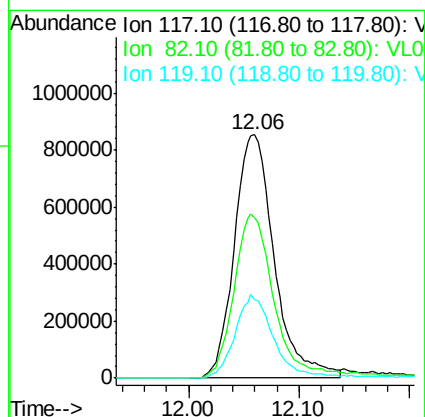
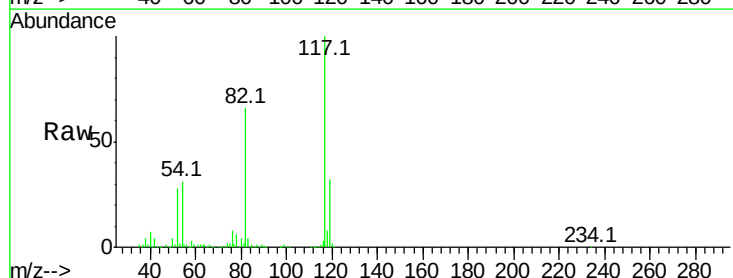
Tgt Ion: 117 Resp: 2147134

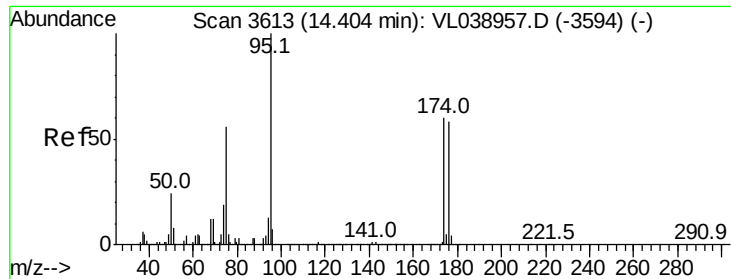
Ion Ratio Lower Upper

117 100

82 70.1 57.0 85.6

119 34.1 27.2 40.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.51 ppbv

RT: 14.38 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 11 May 2022 19:45

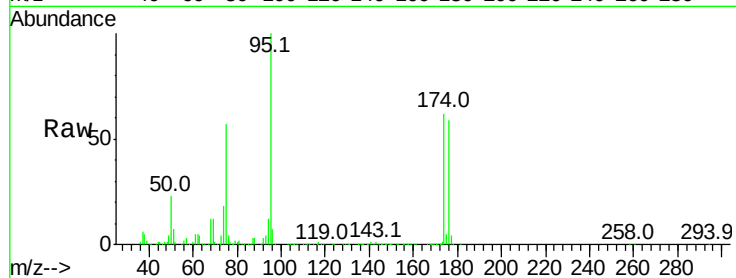
Tgt Ion: 95 Resp: 1616964

Ion Ratio Lower Upper

95 100

174 68.0 50.8 76.2

175 4.8 3.8 5.6



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

