

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071322\
 Data File : VL039477.D
 Acq On : 13 Jul 2022 23:34
 Operator : SY/AP
 Sample : N3660-09DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL

Quant Time: Jul 14 01:24:57 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1278377	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3519681	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	3236115	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2529270	10.54	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

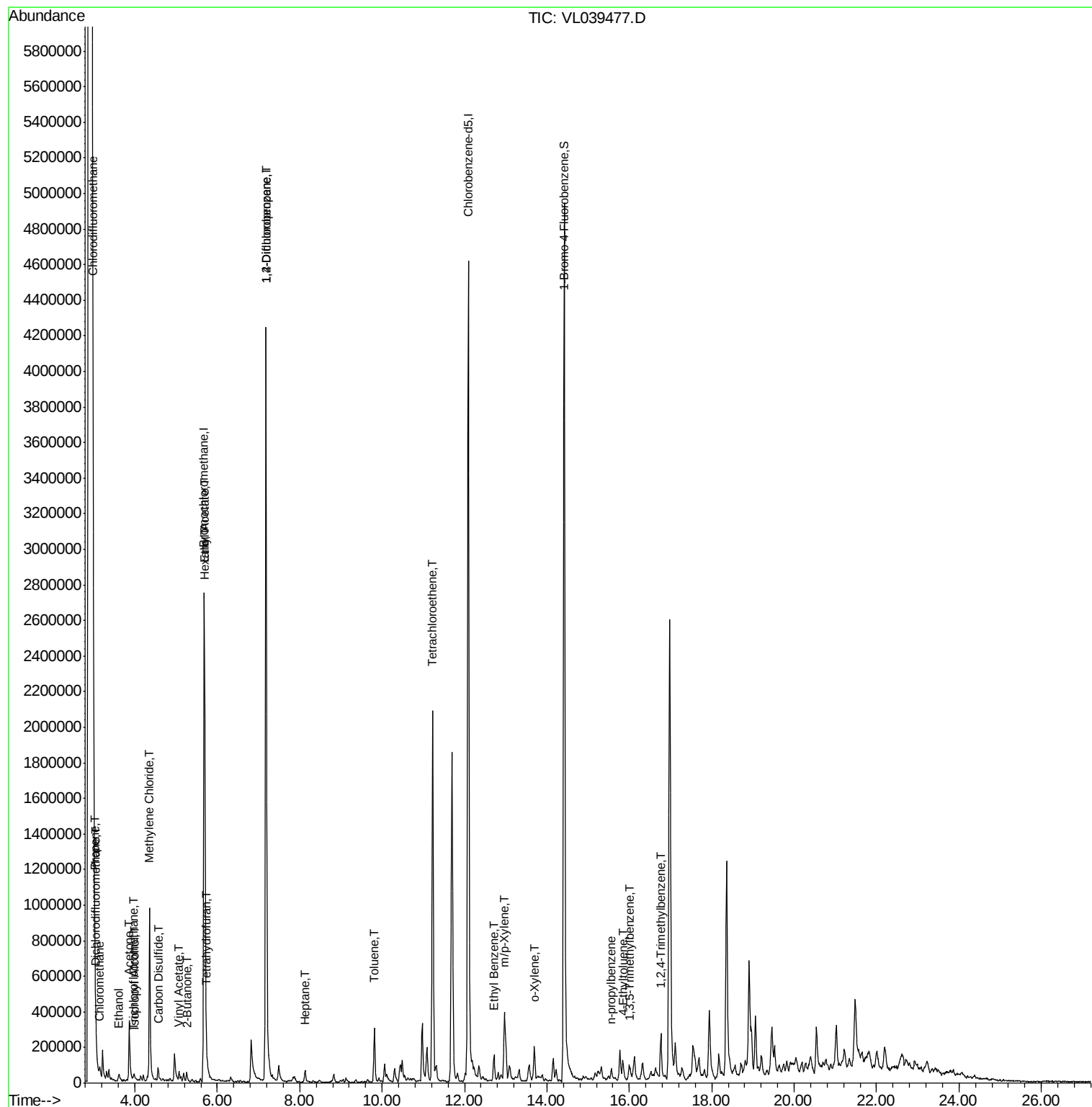
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	31913	0.17	ppbv #	88
3) Chlorodifluoromethane	2.99	51	12637	0.08	ppbv #	90
4) Chloromethane	3.14	50	41787	0.47	ppbv	89
9) Propene	3.03	41	22506	0.31	ppbv	94
10) Heptane	8.13	43	14361	0.08	ppbv #	19
11) Trichlorofluoromethane	3.96	101	7933	0.04	ppbv	99
13) Ethanol	3.61	45	54421	12.81	ppbv	80
15) Acetone	3.86	43	407851	2.70	ppbv #	88
19) Isopropyl Alcohol	3.98	45	33489	0.42	ppbv #	88
20) Methylene Chloride	4.36	84	378835	6.28	ppbv	96
23) Vinyl Acetate	5.07	43	42761	0.42	ppbv #	90
25) Ethyl Acetate	5.69	43	412879	1.33	ppbv #	77
26) Hexane	5.70	57	573802	4.59	ppbv #	39
27) Carbon Disulfide	4.56	76	77910	0.52	ppbv #	91
34) 2-Butanone	5.26	43	63211	0.36	ppbv	92
39) 1,2-Dichloropropane	7.18	63	850794	8.36	ppbv #	26
41) Tetrahydrofuran	5.74	42	3109	0.03	ppbv #	39
52) Tetrachloroethene	11.23	164	552512	5.04	ppbv	97
53) Toluene	9.81	91	236353	0.75	ppbv	97
58) Ethyl Benzene	12.72	91	124281	0.30	ppbv	96
59) m/p-Xylene	12.97	91	412763	1.12	ppbv	95
60) o-Xylene	13.69	91	69737	0.20	ppbv #	31
64) n-propylbenzene	15.56	120	7660	0.06	ppbv #	1
72) 4-Ethyltoluene	15.84	105	36525	0.09	ppbv #	48
73) 1,3,5-Trimethylbenzene	16.00	105	32804	0.09	ppbv #	82
74) 1,2,4-Trimethylbenzene	16.76	105	190126	0.46	ppbv #	69

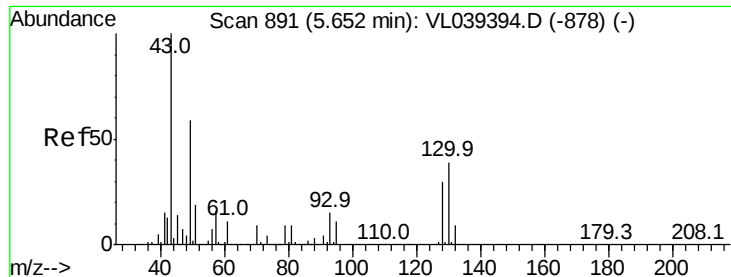
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Jul 2022 23:34 SG-2DL

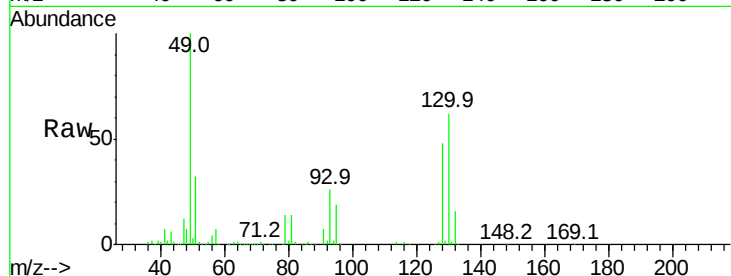
Tgt Ion: 49 Resp: 1278377

Ion Ratio Lower Upper

49 100

128 52.7 26.7 80.0

130 67.4 34.3 102.8



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

5.67

800000

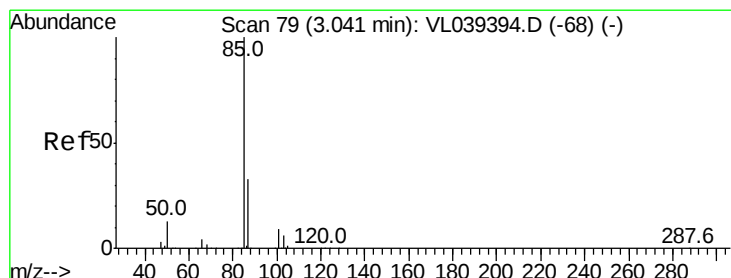
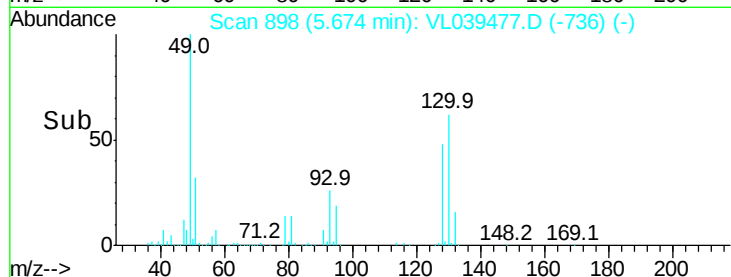
600000

400000

200000

0

Time--> 5.60 5.65 5.70 5.75



#2

Dichlorodifluoromethane

Concen: 0.17 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL039477.D

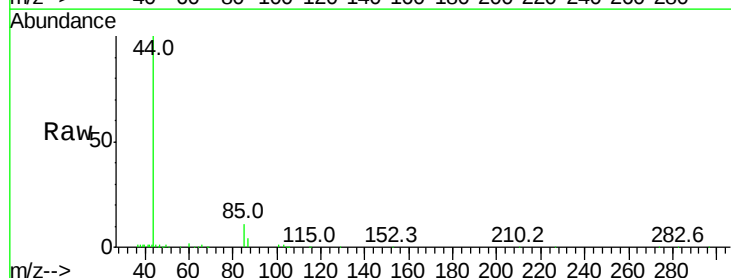
Acq: 13 Jul 2022 23:34

Tgt Ion: 85 Resp: 31913

Ion Ratio Lower Upper

85 100

87 40.2 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

30000

25000

20000

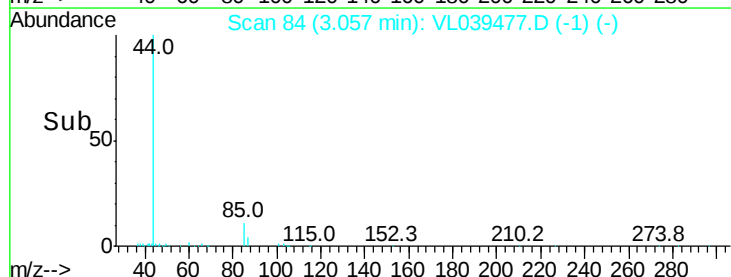
15000

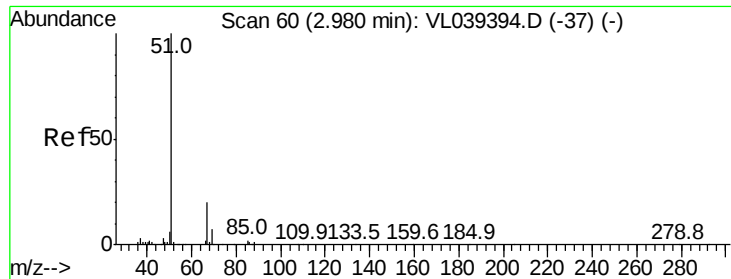
10000

5000

0

Time--> 3.02 3.04 3.06 3.08





#3

Chlorodifluoromethane

Concen: 0.08 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-2DL

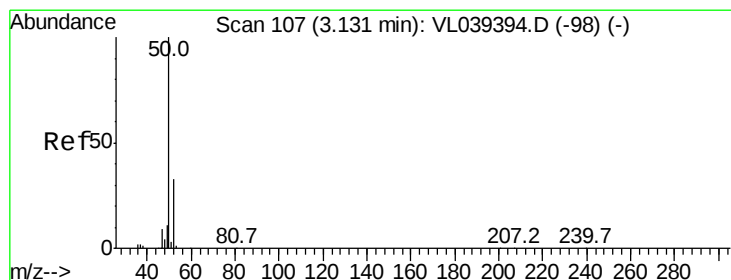
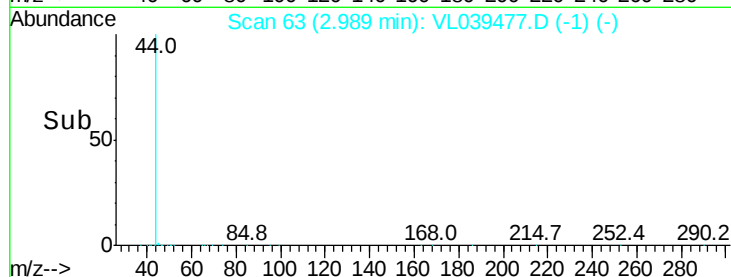
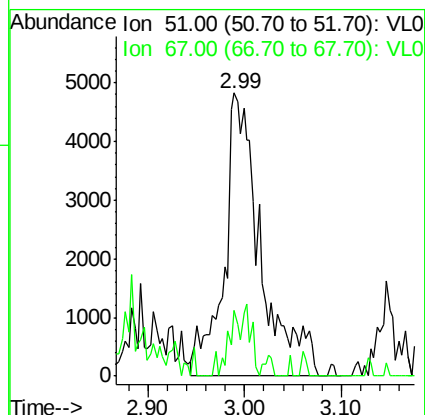
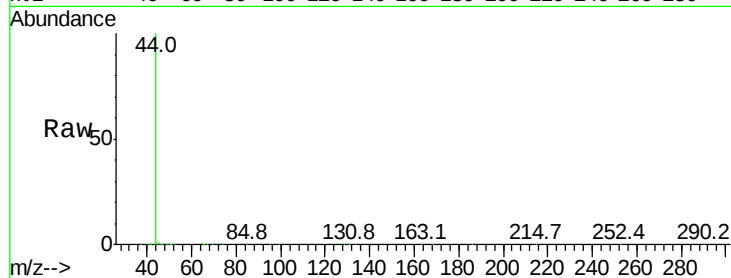
Acq: 13 Jul 2022 23:34

Tgt Ion: 51 Resp: 12637

Ion Ratio Lower Upper

51 100

67 15.1 15.7 23.5#



#4

Chloromethane

Concen: 0.47 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL039477.D

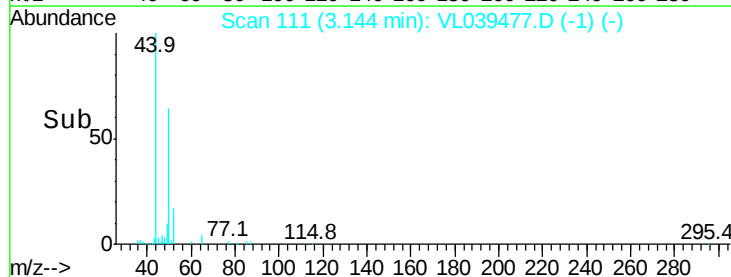
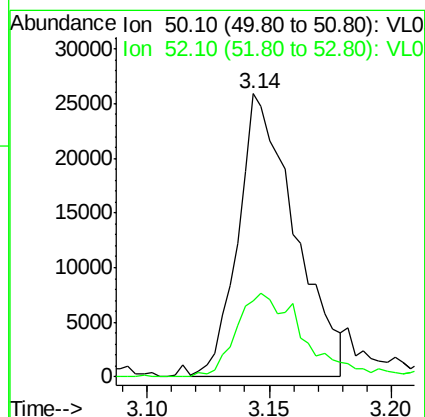
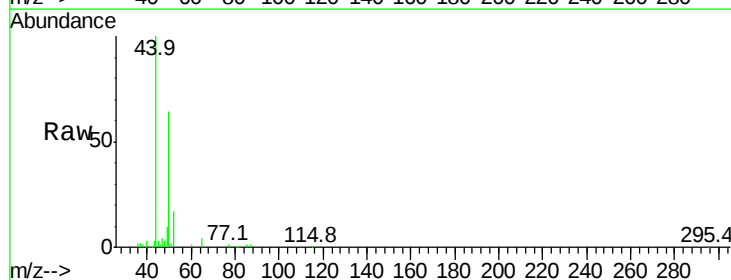
Acq: 13 Jul 2022 23:34

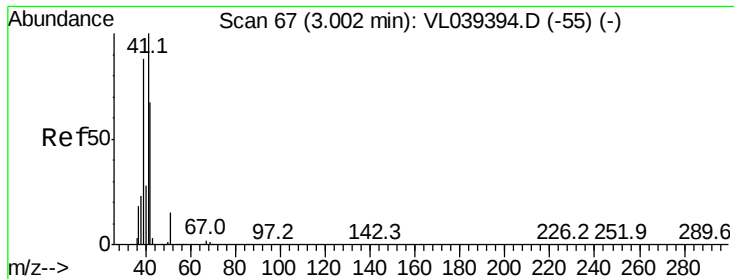
Tgt Ion: 50 Resp: 41787

Ion Ratio Lower Upper

50 100

52 26.9 26.5 39.7





#9

Propene

Concen: 0.31 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

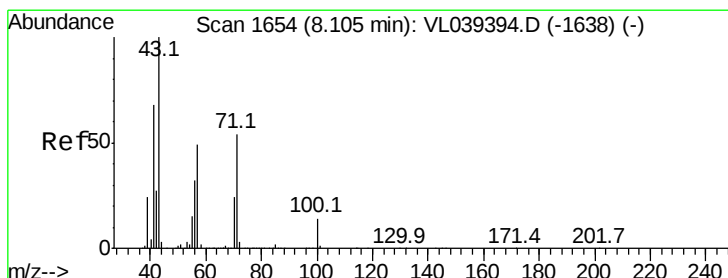
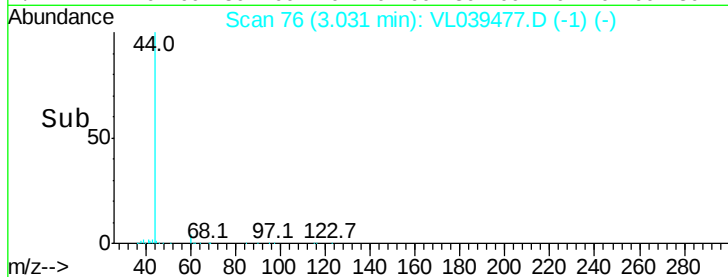
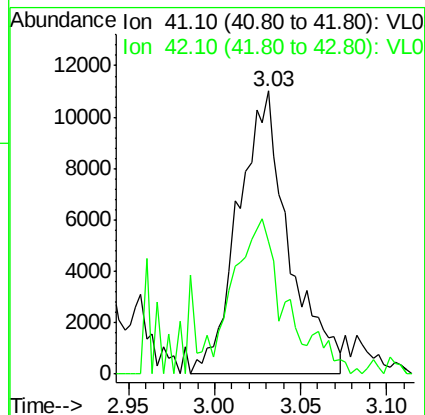
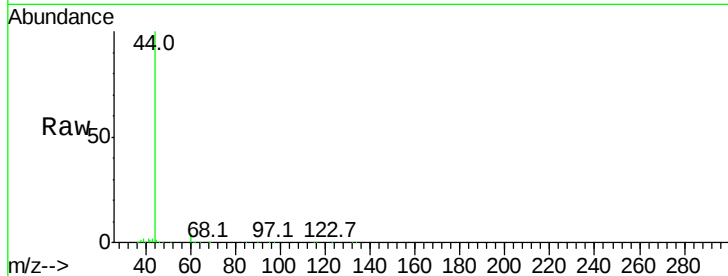
Acq: 13 Jul 2022 23:34 SG-2DL

Tgt Ion: 41 Resp: 22506

Ion Ratio Lower Upper

41 100

42 63.9 55.2 82.8



#10

Heptane

Concen: 0.08 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.03 min

Lab File: VL039477.D

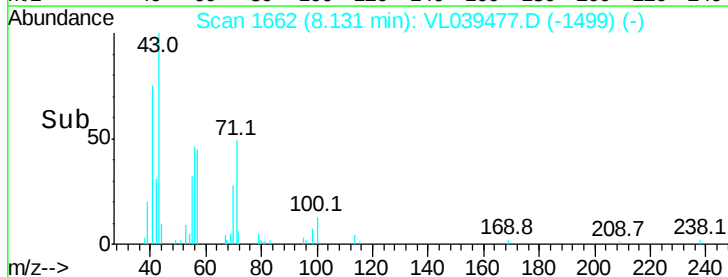
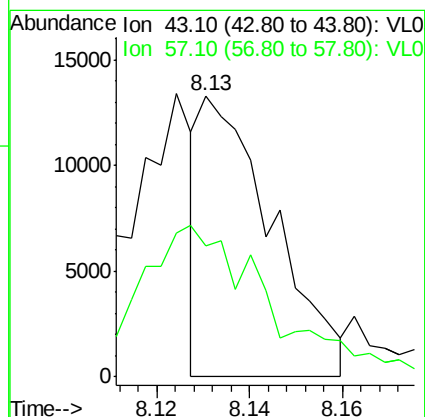
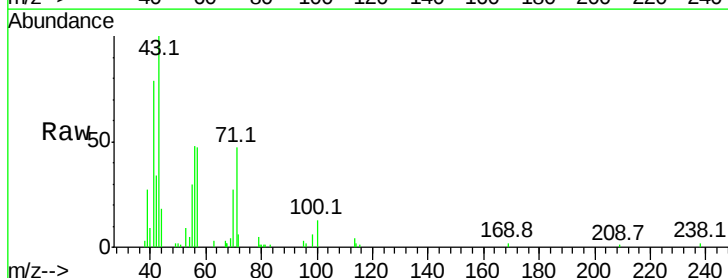
Acq: 13 Jul 2022 23:34

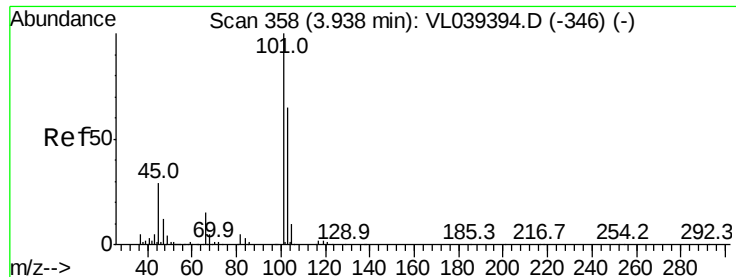
Tgt Ion: 43 Resp: 14361

Ion Ratio Lower Upper

43 100

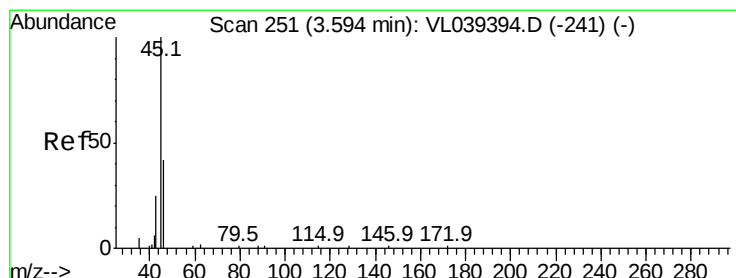
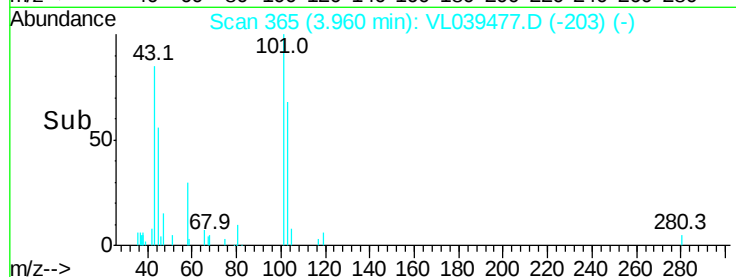
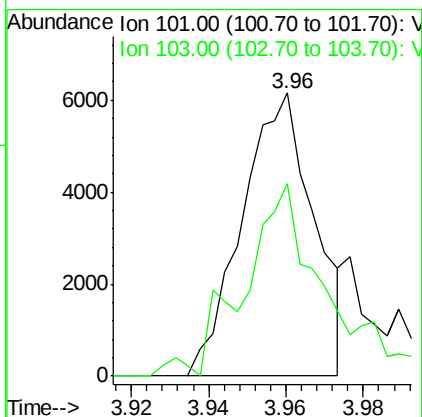
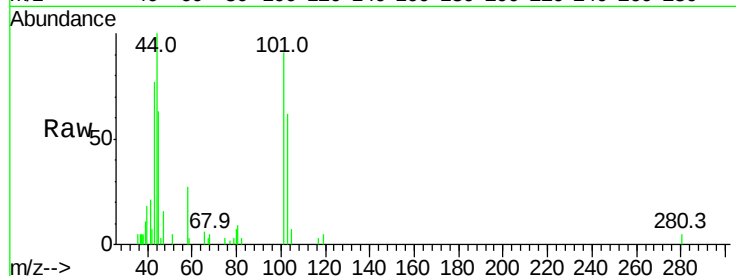
57 107.1 40.5 60.7#





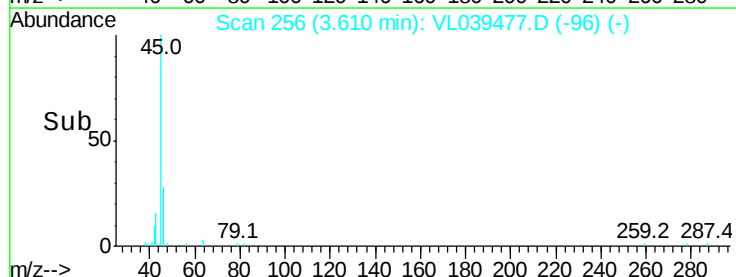
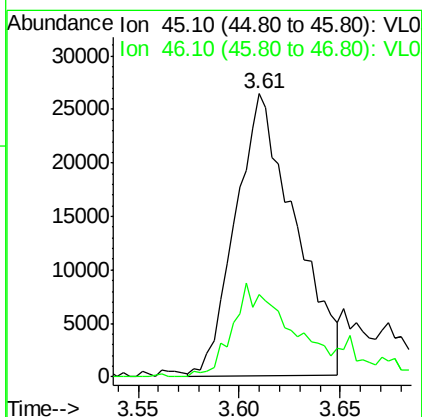
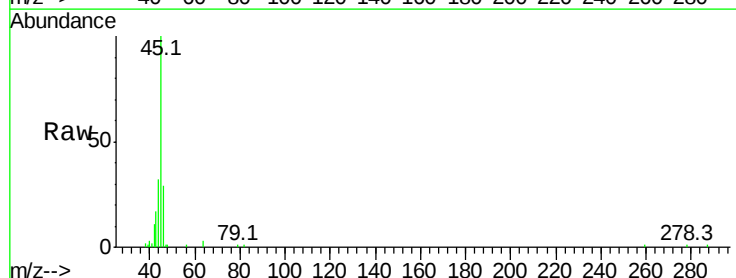
#11
 Trichlorofluoromethane
 Concen: 0.04 ppbv
 RT: 3.96
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Jul 2022 23:34

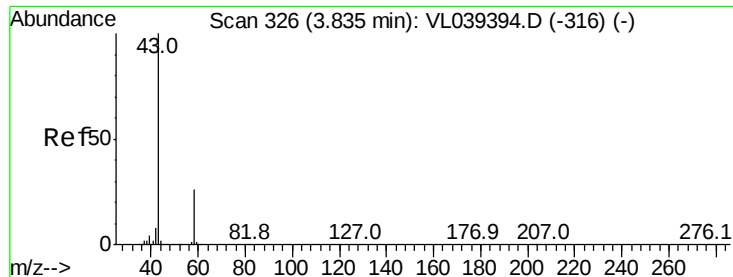
Tgt Ion: 101 Resp: 7933
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.8 77.8



#13
 Ethanol
 Concen: 12.81 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.02 min
 Lab File: VL039477.D
 Acq: 13 Jul 2022 23:34

Tgt Ion: 45 Resp: 54421
 Ion Ratio Lower Upper
 45 100
 46 42.1 22.8 91.2





#15

Acetone

Concen: 2.70 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

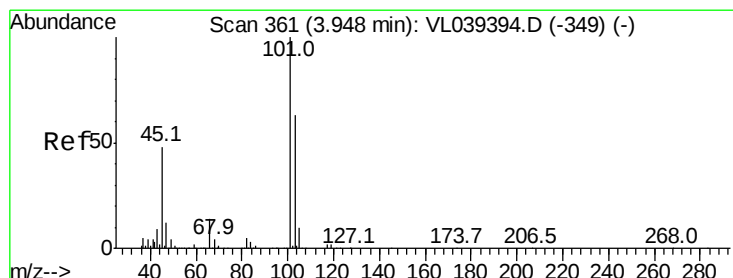
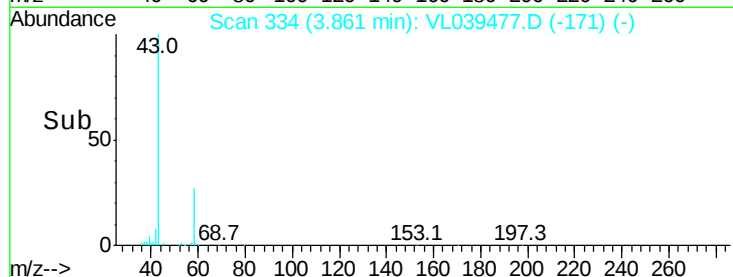
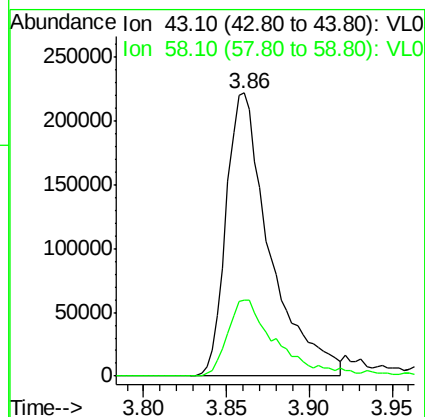
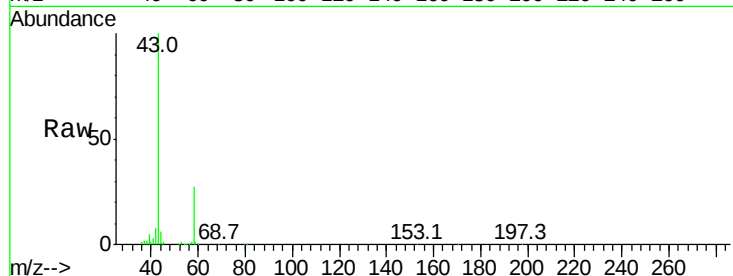
Acq: 13 Jul 2022 23:34 SG-2DL

Tgt Ion: 43 Resp: 407851

Ion Ratio Lower Upper

43 100

58 32.4 21.0 31.6#



#19

Isopropyl Alcohol

Concen: 0.42 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.03 min

Lab File: VL039477.D

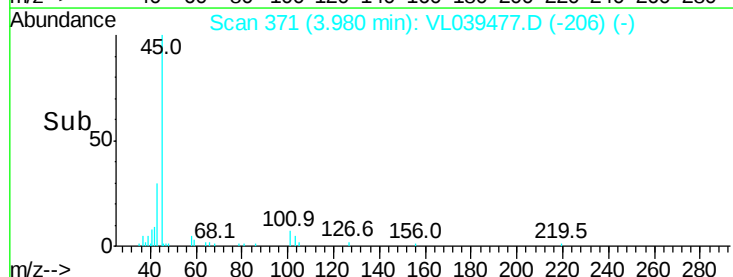
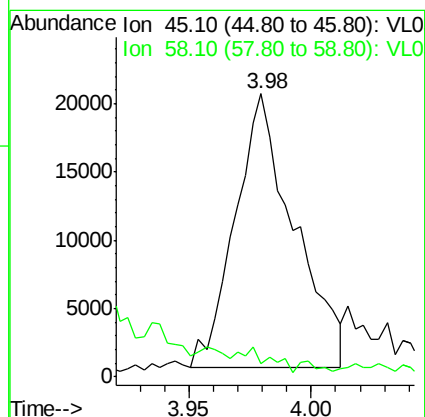
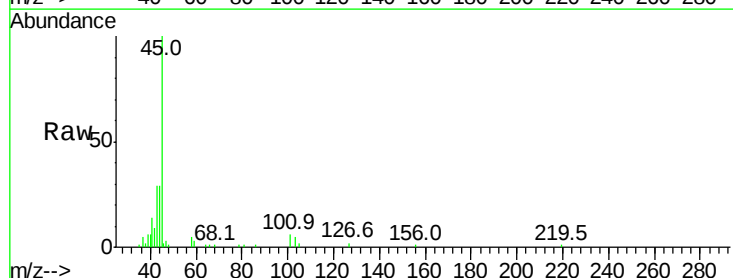
Acq: 13 Jul 2022 23:34

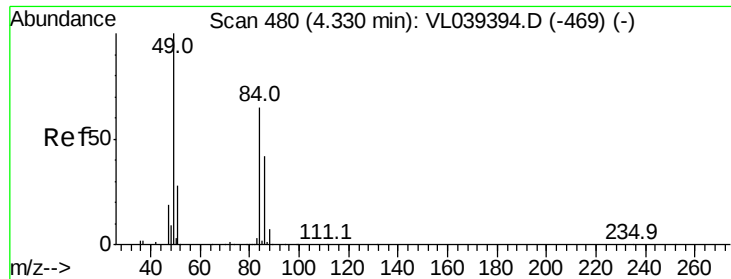
Tgt Ion: 45 Resp: 33489

Ion Ratio Lower Upper

45 100

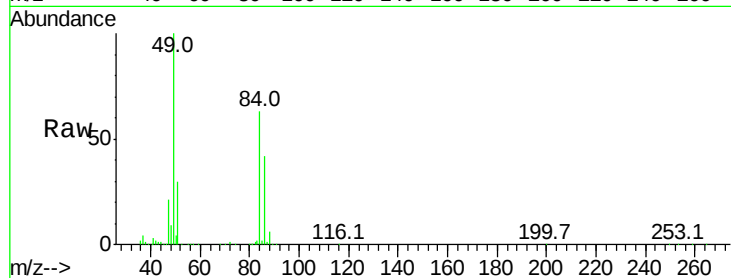
58 0.0 3.2 4.8#



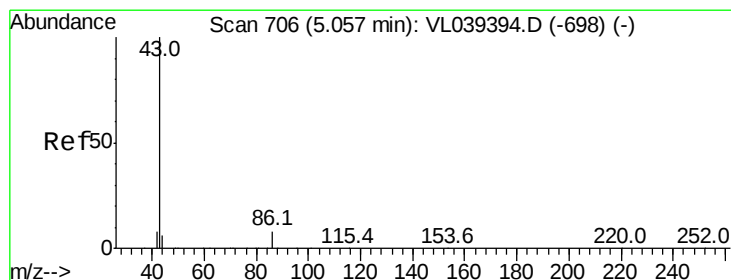
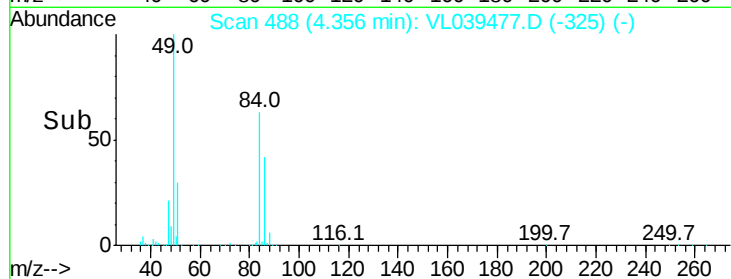
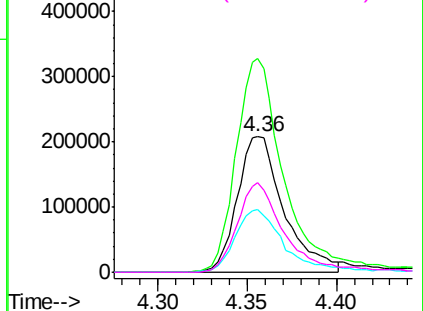


#20
Methylene Chloride
Concen: 6.28 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Jul 2022 23:34

Tgt Ion:	84	Resp:	378835
Ion	Ratio	Lower	Upper
84	100		
49	158.0	123.1	184.7
51	46.8	34.4	51.6
86	66.3	51.1	76.7

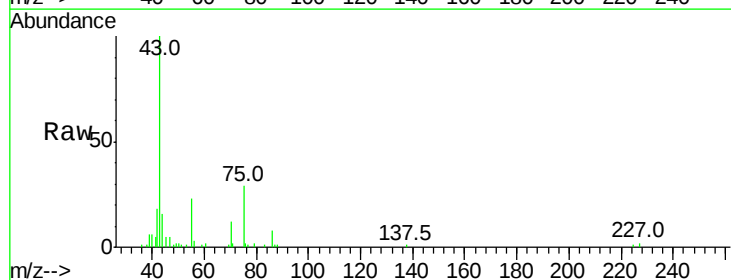


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

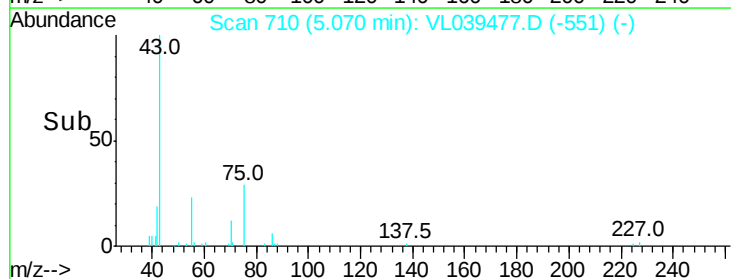
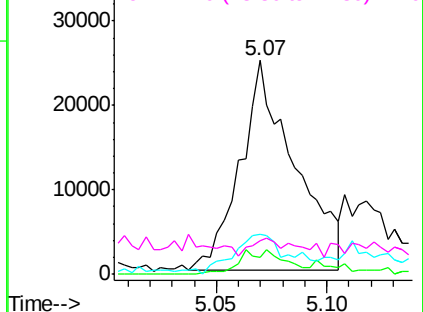


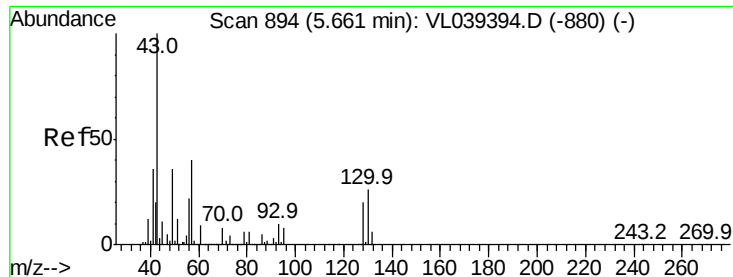
#23
Vinyl Acetate
Concen: 0.42 ppbv
RT: 5.07 min Scan# 710
Delta R.T. 0.01 min
Lab File: VL039477.D
Acq: 13 Jul 2022 23:34

Tgt Ion:	43	Resp:	42761
Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.0	7.6#
42	14.7	7.7	11.5#
44	1.9	4.6	7.0#



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: 1.33 ppbv

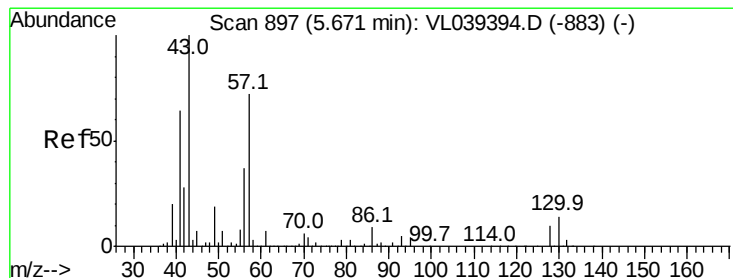
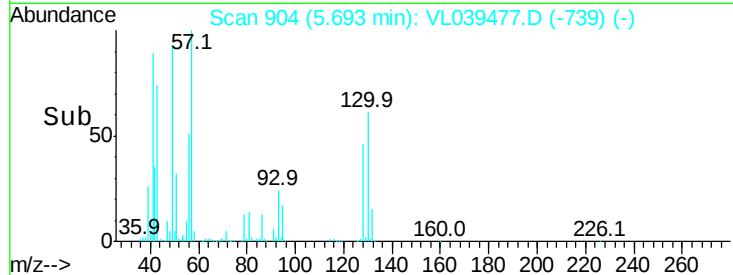
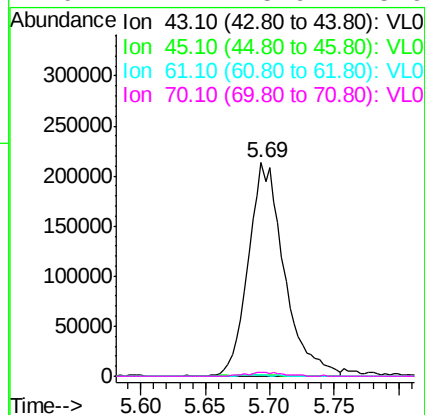
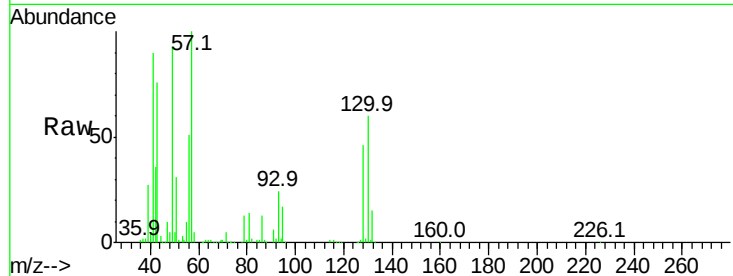
RT: 5.69 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 13 Jul 2022 23:34

Tgt Ion:	43	Resp:	412879
Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.2	12.4#
61	0.6	8.3	12.5#
70	2.1	5.9	8.9#



#26

Hexane

Concen: 4.59 ppbv

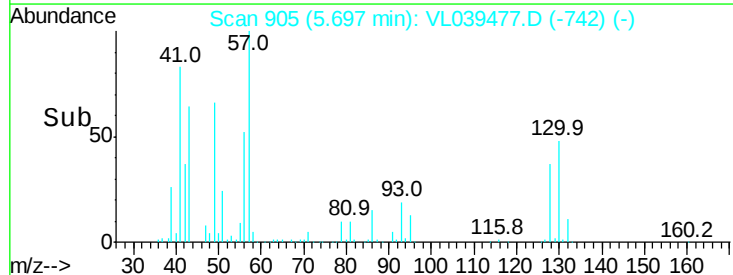
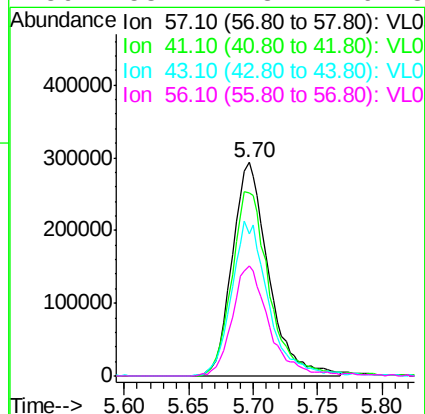
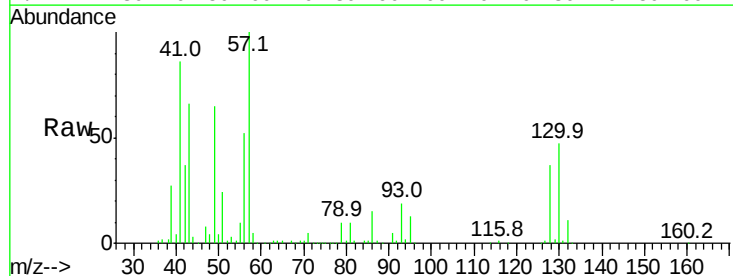
RT: 5.70 min Scan# 905

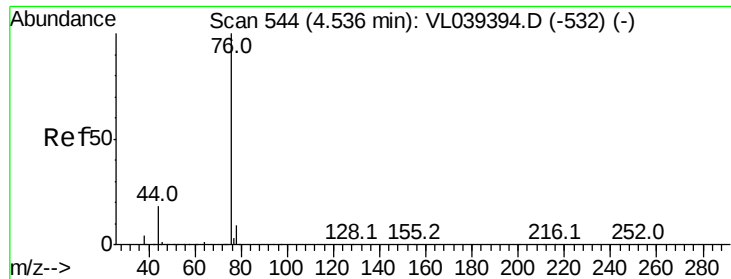
Delta R.T. 0.03 min

Lab File: VL039477.D

Acq: 13 Jul 2022 23:34

Tgt Ion:	57	Resp:	573802
Ion	Ratio	Lower	Upper
57	100		
41	90.7	76.9	115.3
43	74.4	191.0	286.6#
56	53.1	43.2	64.8





#27

Carbon Disulfide

Concen: 0.52 ppbv

RT: 4.56 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 Jul 2022 23:34 SG-2DL

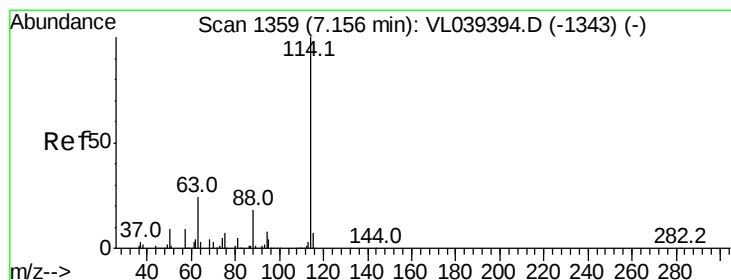
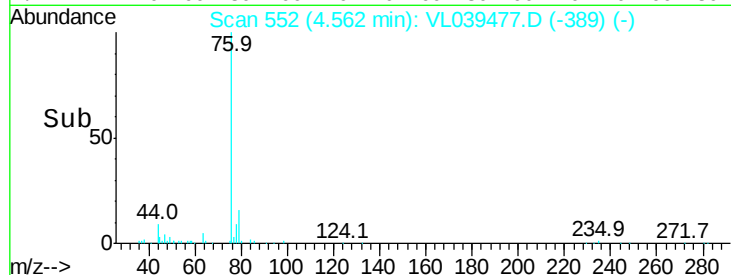
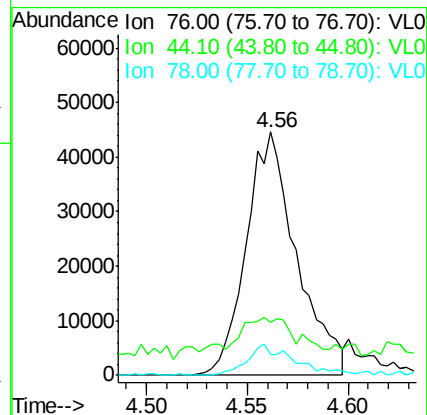
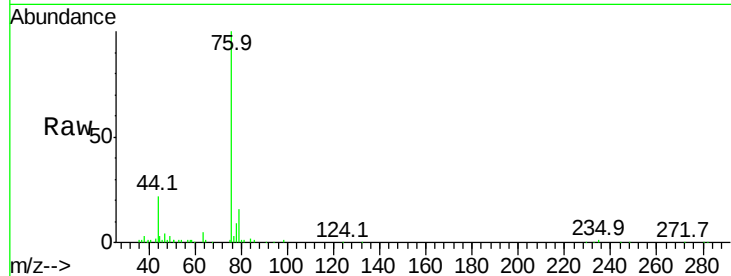
Tgt Ion: 76 Resp: 77910

Ion Ratio Lower Upper

76 100

44 22.4 14.6 21.8#

78 12.4 7.8 11.6#



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.03 min

Lab File: VL039477.D

Acq: 13 Jul 2022 23:34

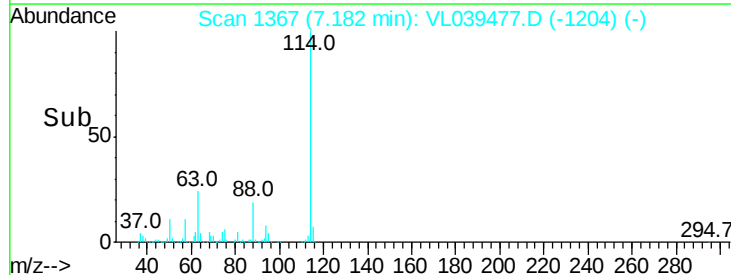
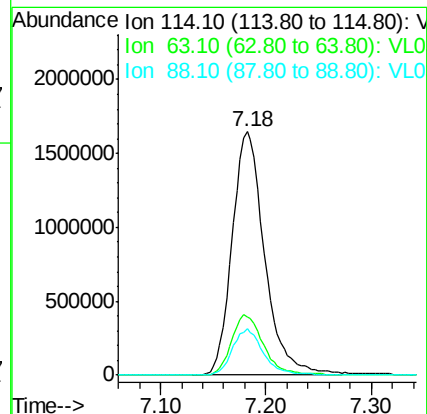
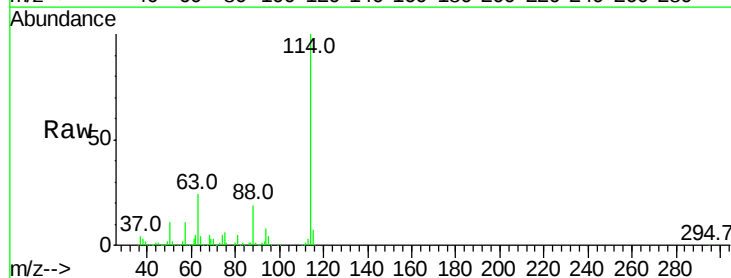
Tgt Ion: 114 Resp: 3519681

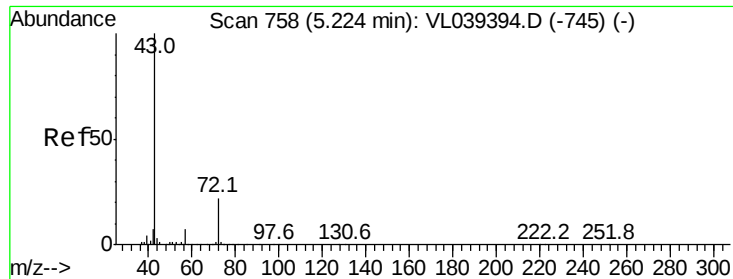
Ion Ratio Lower Upper

114 100

63 24.9 20.2 30.4

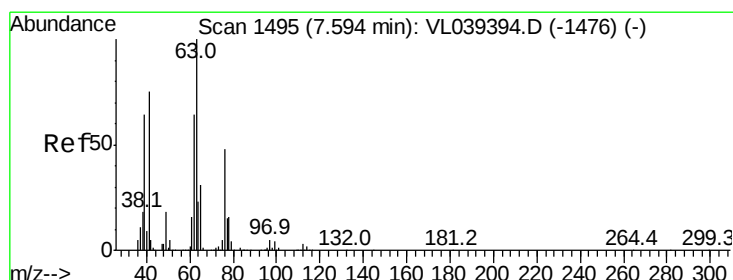
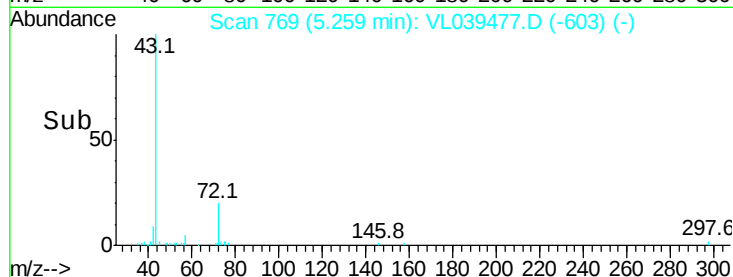
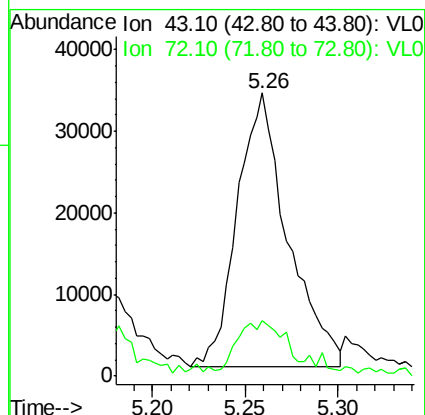
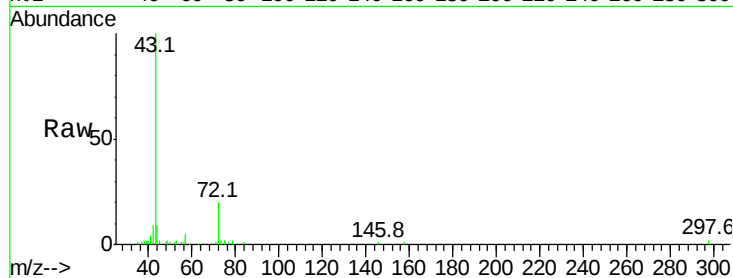
88 18.3 14.5 21.7





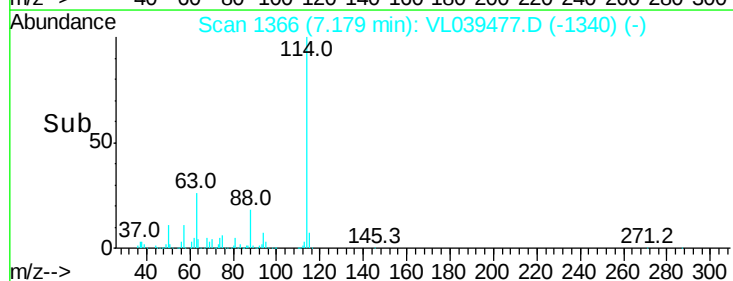
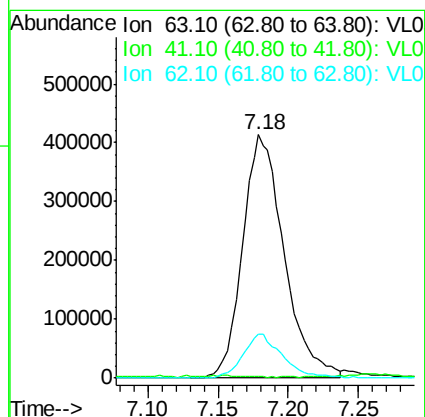
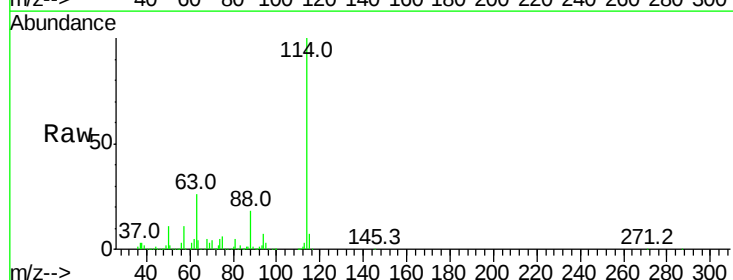
#34
 2-Butanone
 Concen: 0.36 ppbv
 RT: 5.26
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Jul 2022 23:34

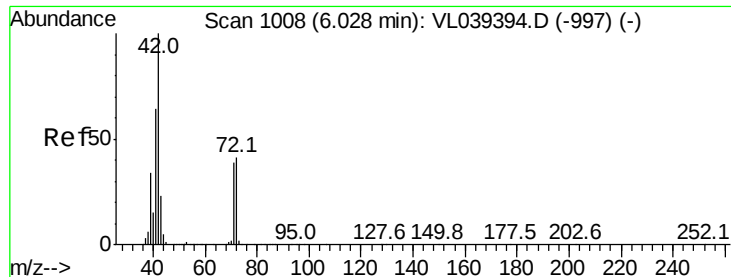
Tgt Ion: 43 Resp: 63211
 Ion Ratio Lower Upper
 43 100
 72 26.3 17.9 26.9



#39
 1,2-Dichloropropane
 Concen: 8.36 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.41 min
 Lab File: VL039477.D
 Acq: 13 Jul 2022 23:34

Tgt Ion: 63 Resp: 850794
 Ion Ratio Lower Upper
 63 100
 41 0.2 59.6 89.4#
 62 17.9 51.4 77.0#





#41

Tetrahydrofuran

Concen: 0.03 ppbv

RT: 5.74 Instrument: MSVOA_1

Delta R.T. 0.03 min

Lab File: ClientSampleId :

Acq: 13 Jul 2022 23:34

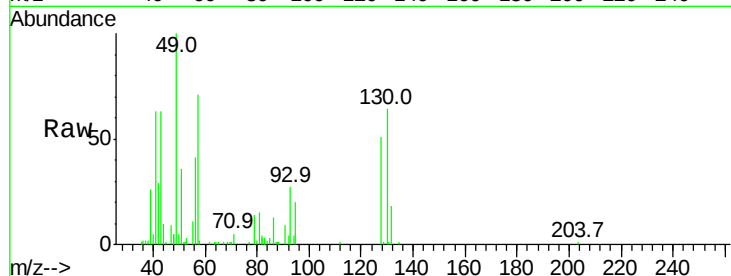
Tgt Ion: 42 Resp: 3109

Ion Ratio Lower Upper

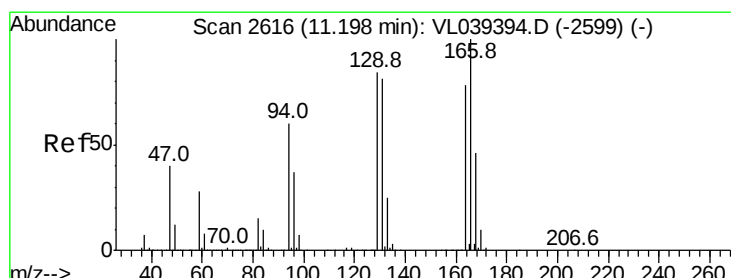
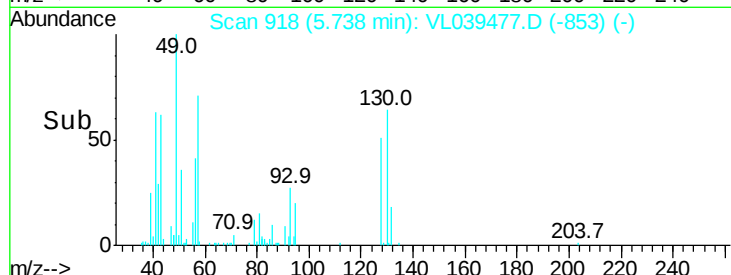
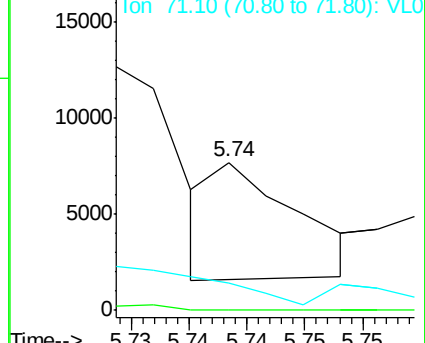
42 100

72 4.6 31.8 47.8#

71 0.0 31.8 47.8#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#52

Tetrachloroethene

Concen: 5.04 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. 0.03 min

Lab File: VL039477.D

Acq: 13 Jul 2022 23:34

Tgt Ion: 164 Resp: 552512

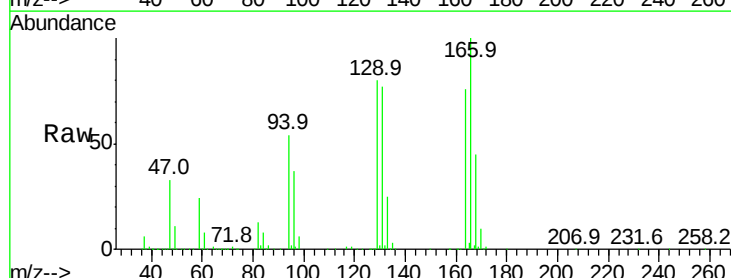
Ion Ratio Lower Upper

164 100

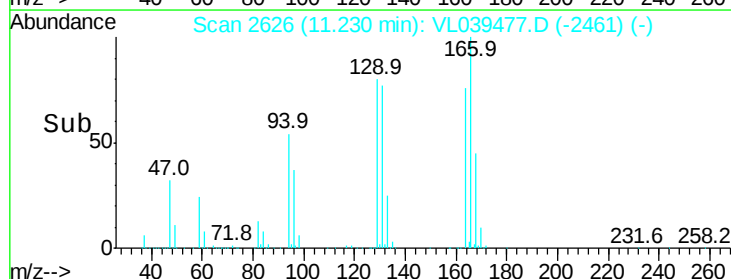
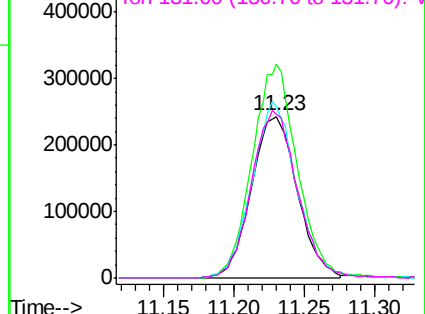
166 132.1 102.2 153.2

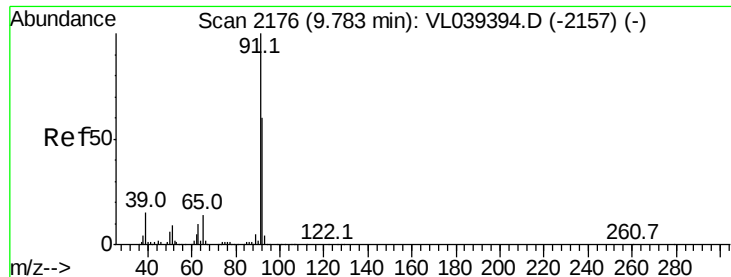
129 105.9 85.8 128.8

131 101.4 83.3 124.9



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





#53

Toluene

Concen: 0.75 ppbv

RT: 9.81 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-2DL

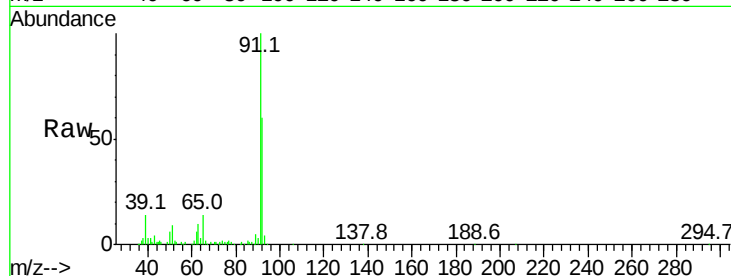
Acq: 13 Jul 2022 23:34

Tgt Ion: 91 Resp: 236353

Ion Ratio Lower Upper

91 100

92 62.3 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.81

120000

100000

80000

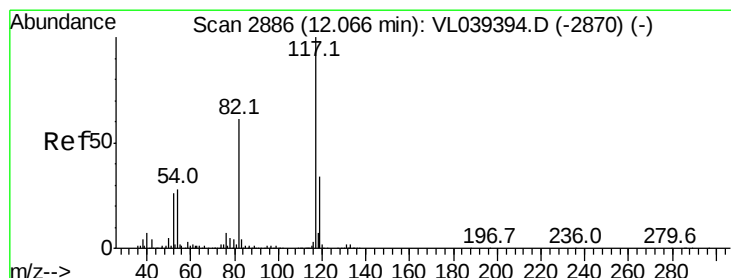
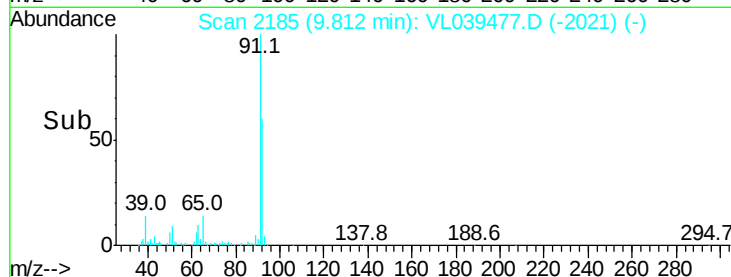
60000

40000

20000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.02 min

Lab File: VL039477.D

Acq: 13 Jul 2022 23:34

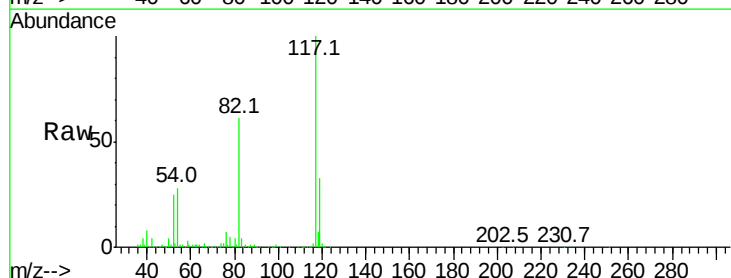
Tgt Ion: 117 Resp: 3236115

Ion Ratio Lower Upper

117 100

82 64.8 50.8 76.2

119 33.8 24.1 36.1



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

12.09

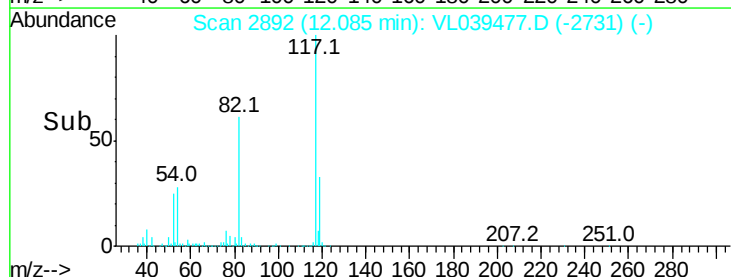
1500000

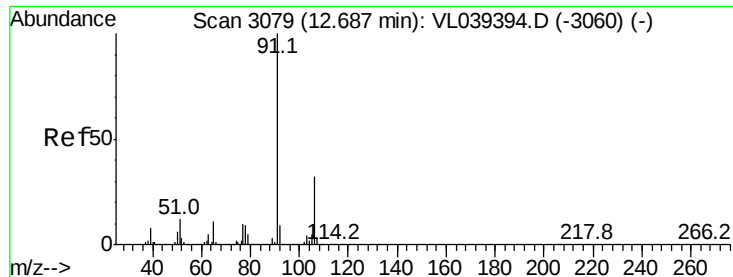
1000000

500000

0

Time-->





#58

Ethyl Benzene

Concen: 0.30 ppbv

RT: 12.72

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

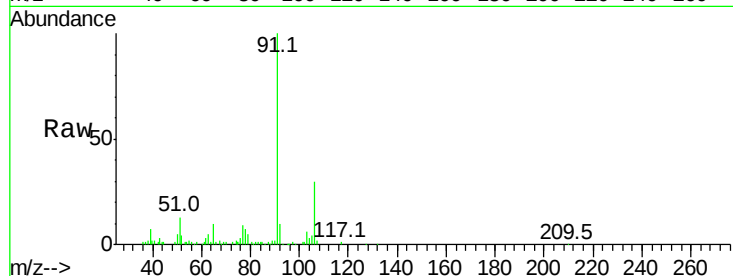
Acq: 13 Jul 2022 23:34

Tgt Ion: 91 Resp: 124281

Ion Ratio Lower Upper

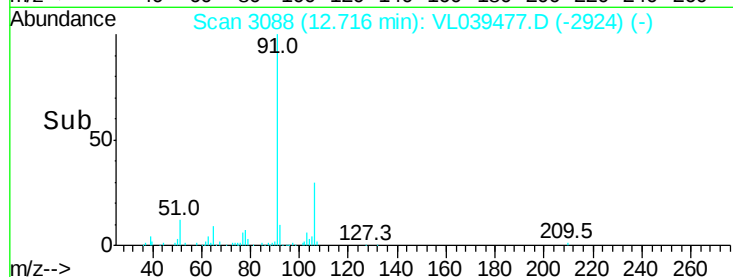
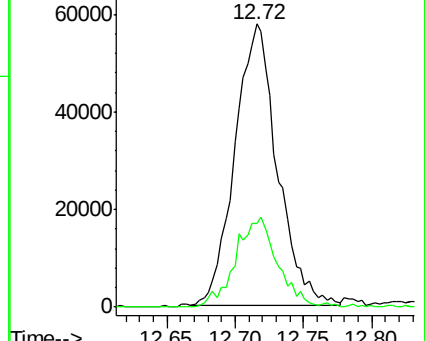
91 100

106 29.6 25.4 38.0

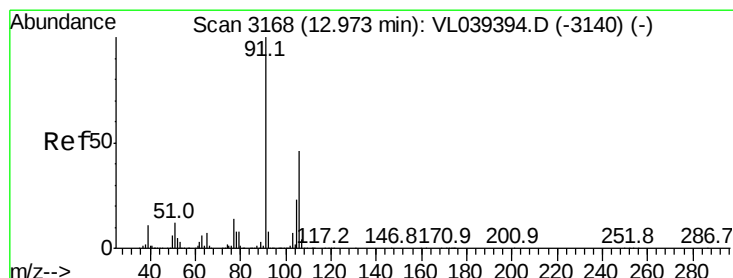


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



Time-->



#59

m/p-Xylene

Concen: 1.12 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.01 min

Lab File: VL039477.D

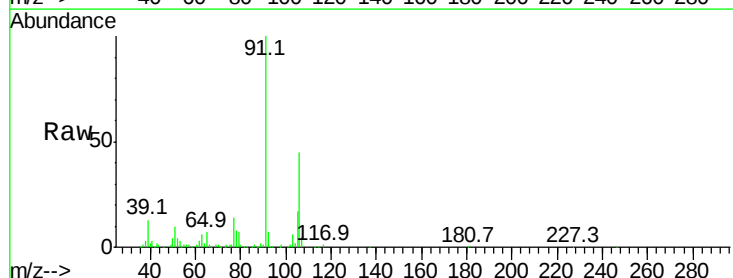
Acq: 13 Jul 2022 23:34

Tgt Ion: 91 Resp: 412763

Ion Ratio Lower Upper

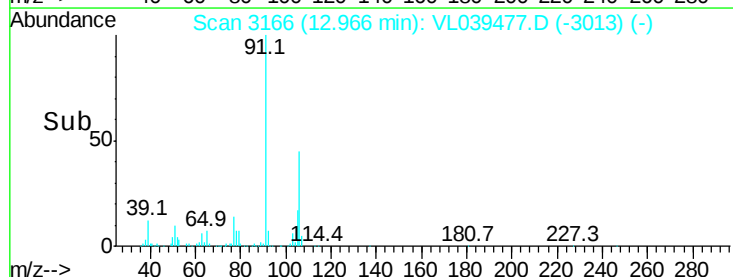
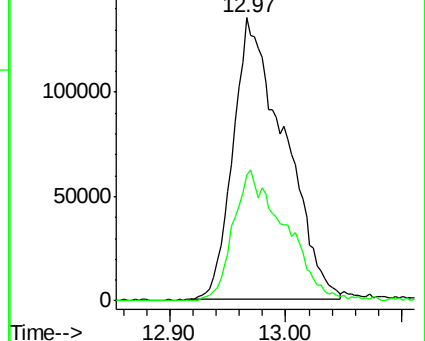
91 100

106 47.5 35.4 53.2

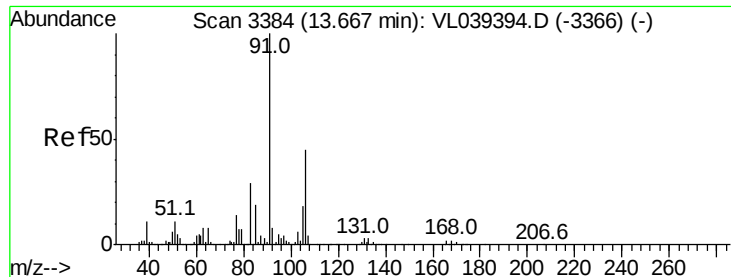


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

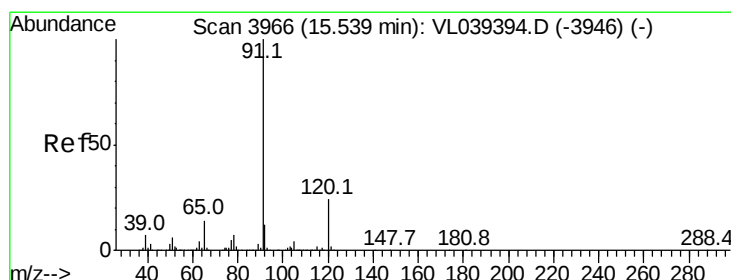
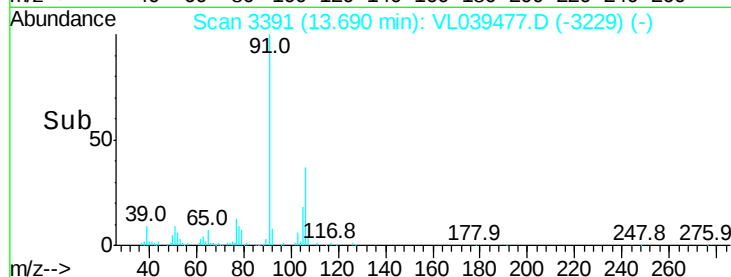
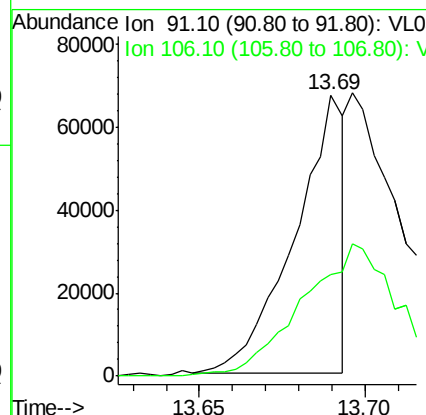
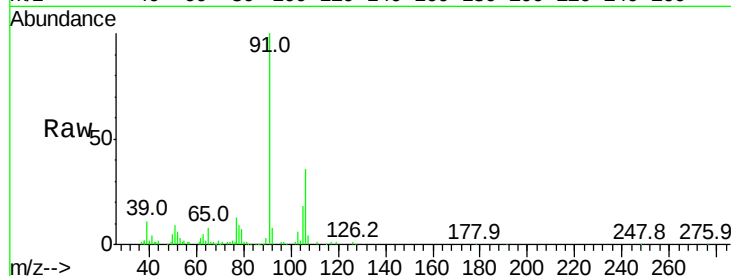


Time-->



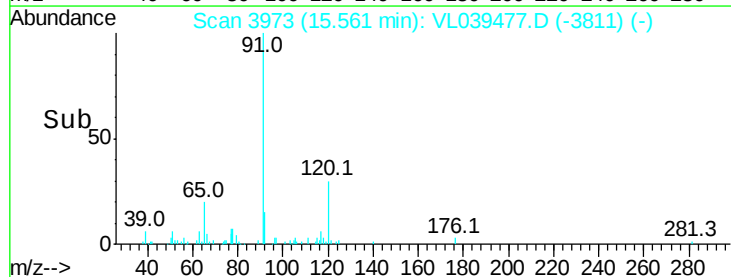
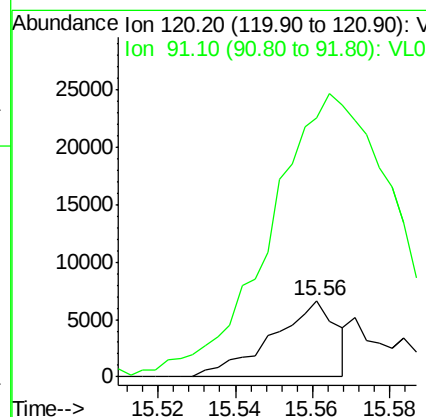
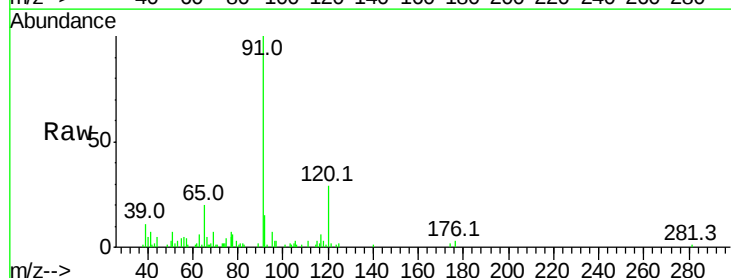
#60
o-Xylene
Concen: 0.20 ppbv
RT: 13.69
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 13 Jul 2022 23:34 SG-2DL

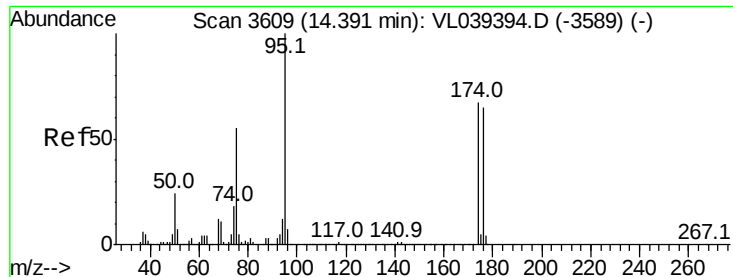
Tgt Ion: 91 Resp: 69737
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3#



#64
n-propylbenzene
Concen: 0.06 ppbv
RT: 15.56 min Scan# 3973
Delta R.T. 0.02 min
Lab File: VL039477.D
Acq: 13 Jul 2022 23:34

Tgt Ion: 120 Resp: 7660
Ion Ratio Lower Upper
120 100
91 820.6 367.2 550.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.54 ppbv

RT: 14.42

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Jul 2022 23:34

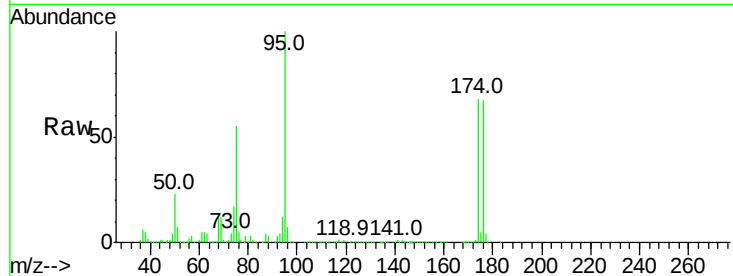
Tgt Ion: 95 Resp: 2529270

Ion Ratio Lower Upper

95 100

174 70.2 55.9 83.9

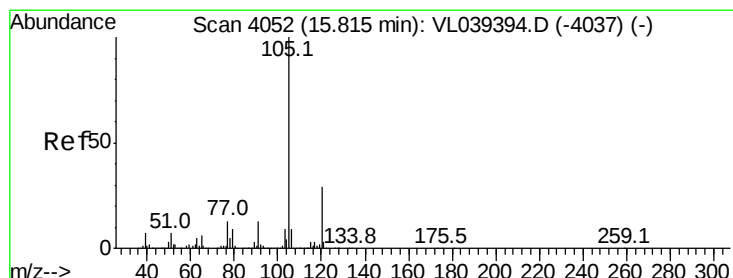
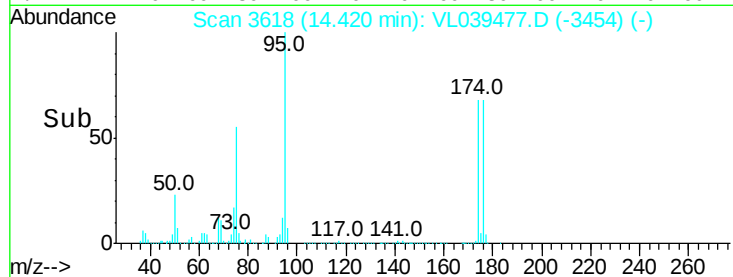
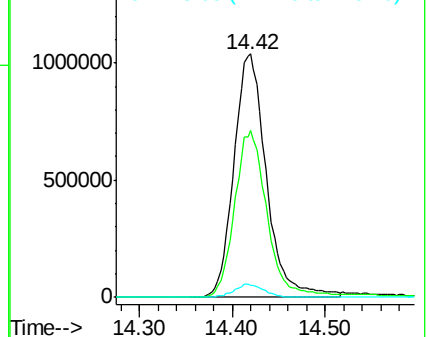
175 5.1 4.2 6.4



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



#72

4-Ethyltoluene

Concen: 0.09 ppbv

RT: 15.84 min Scan# 4060

Delta R.T. 0.03 min

Lab File: VL039477.D

Acq: 13 Jul 2022 23:34

Tgt Ion: 105 Resp: 36525

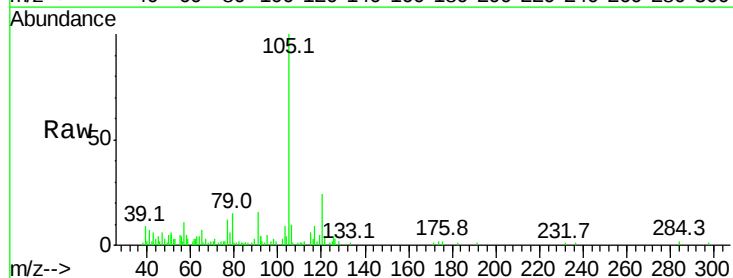
Ion Ratio Lower Upper

105 100

120 61.5 24.2 36.2#

91 36.2 10.2 15.4#

77 0.0 11.1 16.7#

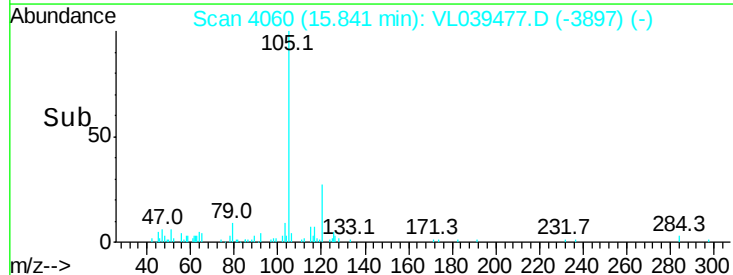
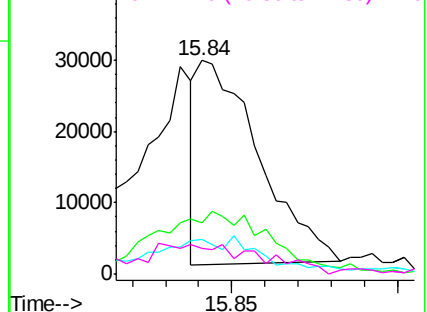


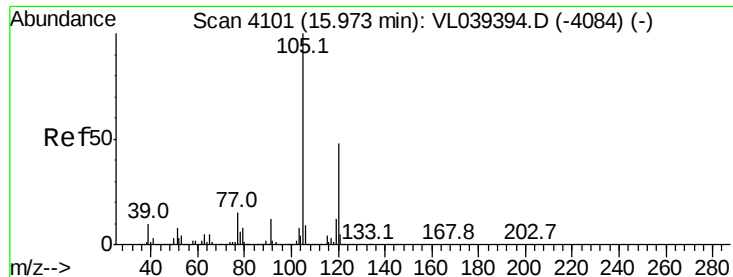
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

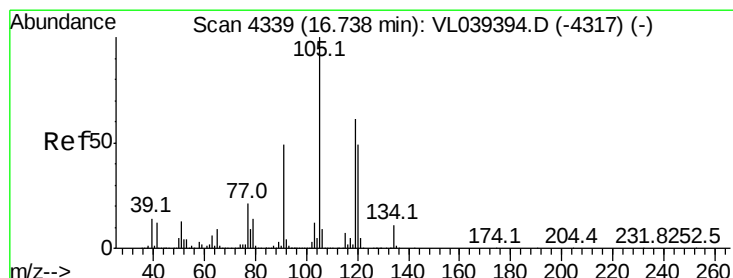
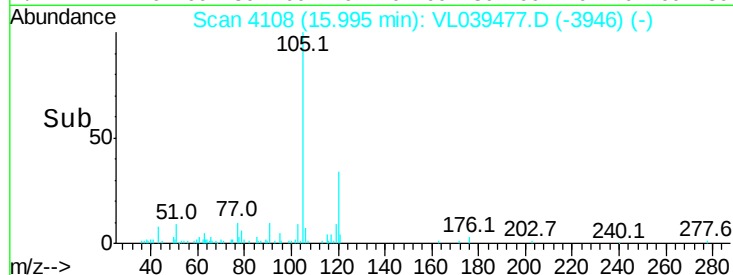
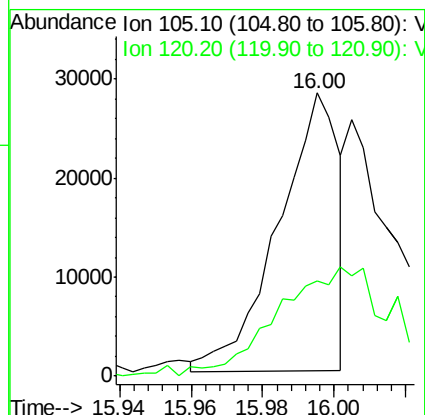
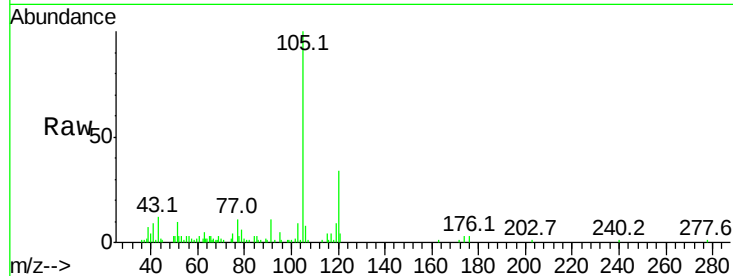
Ion 77.10 (76.80 to 77.80): VL0





#73
 1,3,5-Trimethylbenzene
 Concen: 0.09 ppbv
 RT: 16.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SG-2DL
 Acq: 13 Jul 2022 23:34

Tgt Ion:105 Resp: 32804
 Ion Ratio Lower Upper
 105 100
 120 35.6 38.2 57.4#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.46 ppbv
 RT: 16.76 min Scan# 4347
 Delta R.T. 0.03 min
 Lab File: VL039477.D
 Acq: 13 Jul 2022 23:34

Tgt Ion:105 Resp: 190126
 Ion Ratio Lower Upper
 105 100
 120 41.7 39.5 59.3
 91 10.9 39.2 58.8#
 77 12.8 17.2 25.8#

