

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038056.D
 Acq On : 18 Nov 2021 16:40
 Operator : SY/AP
 Sample : M4526-01-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E058-1100

Quant Time: Nov 19 07:29:59 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	823515	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2508293	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2178675	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1572025	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	3.00	51	6044	0.035 ppbv	# 91
4) Chloromethane	3.15	50	2836	0.048 ppbv	# 65
5) Vinyl Chloride	3.27	62	1574132	27.255 ppbv	# 99
7) Chloroethane	3.27	64	498284	24.310 ppbv	# 41
9) Propene	3.02	41	2890	0.045 ppbv	# 16
10) Heptane	8.13	43	4138901	26.293 ppbv	# 100
11) Trichlorofluoromethane	3.96	101	5134	0.040 ppbv	# 75
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2025697	22.135 ppbv	# 100
13) Ethanol	3.63	45	3741	0.608 ppbv	# 32
14) Bromoethene	3.75	108	13571	0.331 ppbv	# 92
15) Acetone	3.86	43	465941	6.526 ppbv	# 99
17) tert-Butyl alcohol	4.33	59	3053	0.035 ppbv	# 90
20) Methylene Chloride	4.35	84	27034	0.676 ppbv	# 90
23) Vinyl Acetate	5.08	43	16707	0.162 ppbv	# 92
24) 1,1-Dichloroethane	5.02	63	2591285	30.107 ppbv	# 99
25) Ethyl Acetate	5.70	43	2682769	11.305 ppbv	# 76
26) Hexane	5.70	57	3838230	33.558 ppbv	# 43
30) Cyclohexane	7.14	84	2692771	25.932 ppbv	# 96
32) 1,1,1-Trichloroethane	6.52	97	30344	0.177 ppbv	# 98
34) 2-Butanone	5.27	43	119976	1.186 ppbv	# 95
36) Benzene	6.90	78	4814414	19.242 ppbv	# 98
37) 1,2-Dichloroethane	6.31	62	3685	0.030 ppbv	# 79
38) Trichloroethene	7.84	130	2931	0.031 ppbv	# 65
39) 1,2-Dichloropropane	7.18	63	567834	5.916 ppbv	# 41
41) Tetrahydrofuran	5.70	42	1385603	22.069 ppbv	# 50
42) Bromodichloromethane	7.80	83	30227	0.165 ppbv	# 83
44) 2,2,4-Trimethylpentane	8.13	57	2078714	4.966 ppbv	# 1
47) 1,1,2-Trichloroethane	9.48	97	12597	0.125 ppbv	# 89
48) Dibromochloromethane	10.31	129	2992953	19.551 ppbv	# 98
51) 2-Hexanone	10.15	43	28485	0.394 ppbv	# 1
53) Toluene	9.81	91	5316804	18.469 ppbv	# 98
54) 1,2-Dibromoethane	10.62	107	4521165	31.842 ppbv	# 99
57) Chlorobenzene	12.15	112	6555	0.034 ppbv	# 52
58) Ethyl Benzene	12.72	91	23412	0.065 ppbv	# 95
60) o-Xylene	13.70	91	7856	0.028 ppbv	# 5
61) Styrene	13.54	104	3838	0.025 ppbv	# 1
62) Isopropylbenzene	14.67	105	13432	0.034 ppbv	# 81
63) 1,1,2,2-Tetrachloroethane	13.68	83	8840	0.042 ppbv	# 24
64) n-propylbenzene	15.57	120	2664	0.026 ppbv	# 1
66) Benzyl Chloride	17.00	91	677	0.038 ppbv	# 1
69) p-Isopropyltoluene	17.65	119	15395	0.040 ppbv	# 47

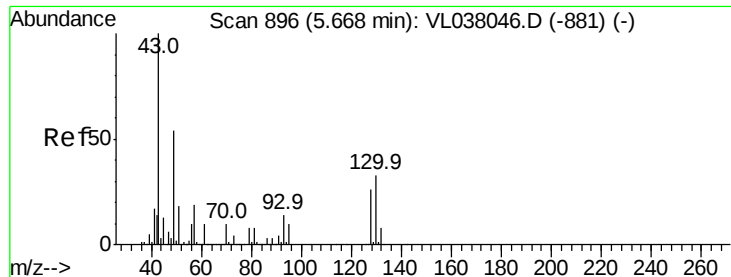
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
Data File : VL038056.D
Acq On : 18 Nov 2021 16:40
Operator : SY/AP
Sample : M4526-01-01
Misc : 400mL/MSVOA L
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Instrument :
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E058-1100

Quant Time: Nov 19 07:29:59 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Nov 18 13:16:09 2021
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	18.55	91	19566	0.053	ppbv #	50
72) 4-Ethyltoluene	15.84	105	29891	0.092	ppbv #	86
73) 1,3,5-Trimethylbenzene	16.00	105	8558	0.029	ppbv #	54
74) 1,2,4-Trimethylbenzene	16.77	105	22019	0.072	ppbv #	85
75) 1,3-Dichlorobenzene	17.00	146	6144	0.036	ppbv #	1
76) 1,4-Dichlorobenzene	17.14	146	7798	0.046	ppbv #	1
77) 1,2-Dichlorobenzene	17.82	146	20872	0.128	ppbv	79
78) Hexachloro-1,3-Butadiene	23.38	225	14653	0.144	ppbv	93
79) Naphthalene	22.19	128	11485	0.071	ppbv #	94
80) Naphthalene,2-methyl-	24.98	142	3656	0.106	ppbv #	77

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

E058-1100

Acq: 18 Nov 2021 16:40

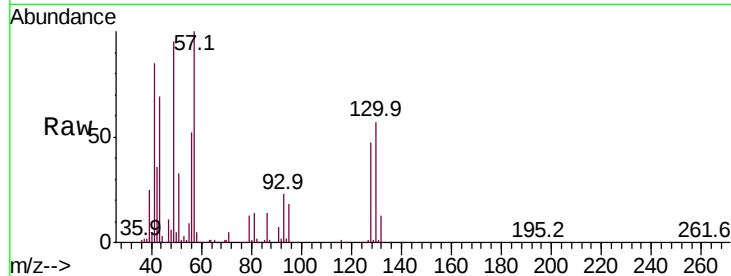
Tot Ion: 49 Resp: 823515

Ion Ratio Lower Upper

49 100

128 51.6 26.5 79.5

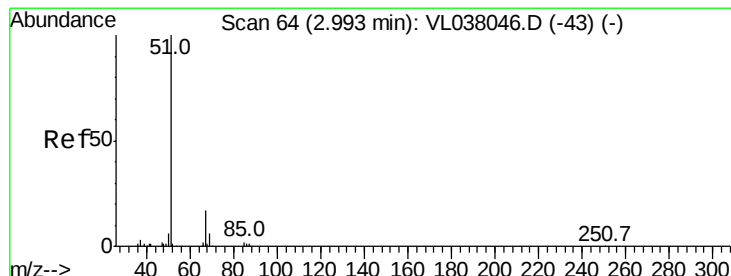
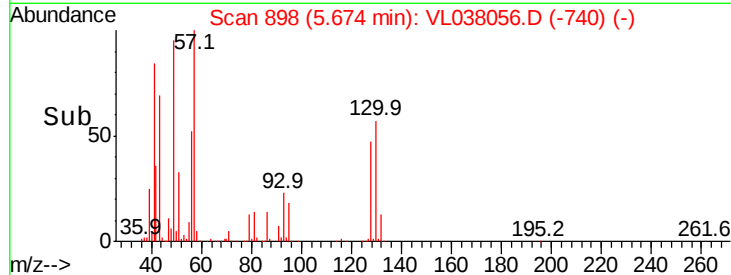
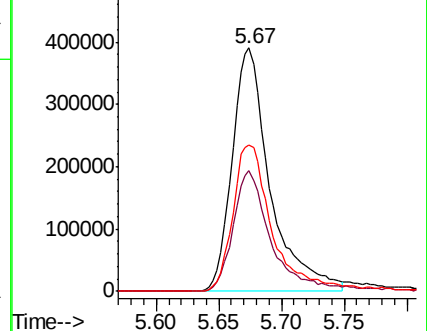
130 65.0 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.035 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL038056.D

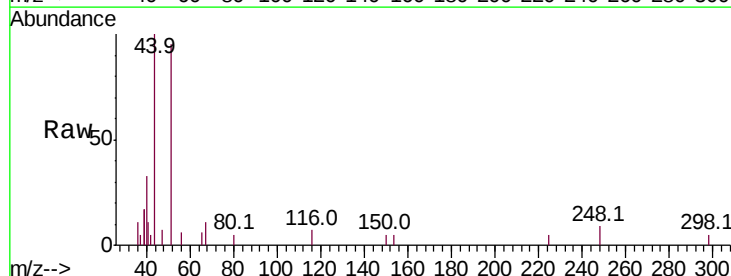
Acq: 18 Nov 2021 16:40

Tgt Ion: 51 Resp: 6044

Ion Ratio Lower Upper

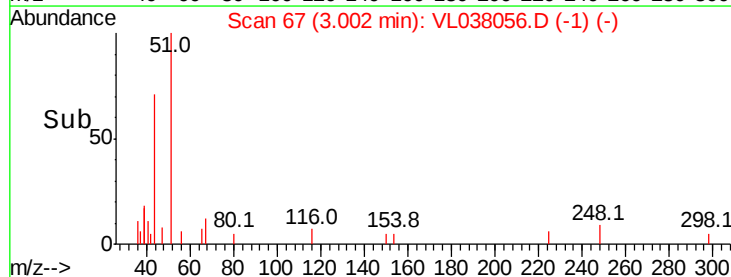
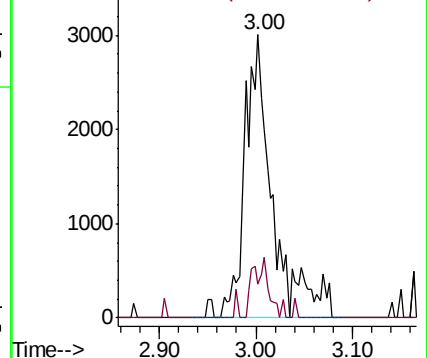
51 100

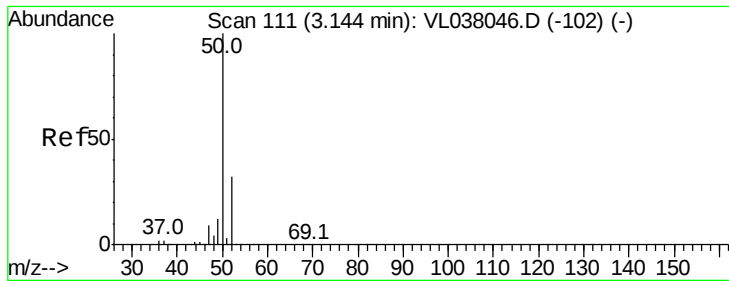
67 13.2 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.048 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

E058-1100

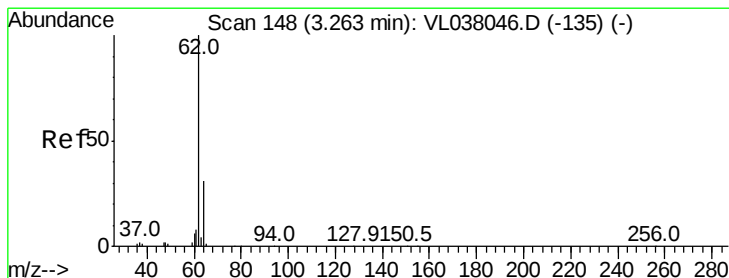
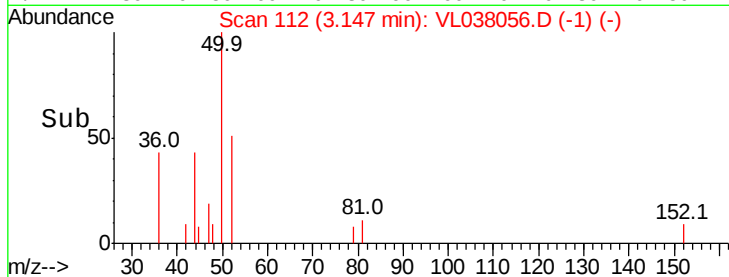
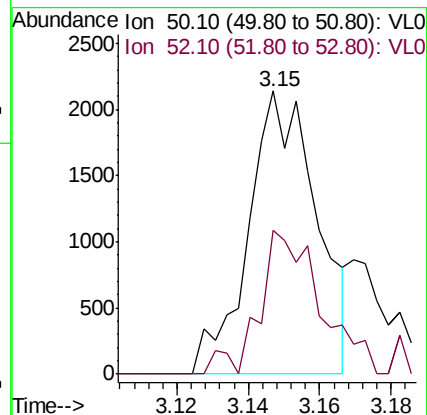
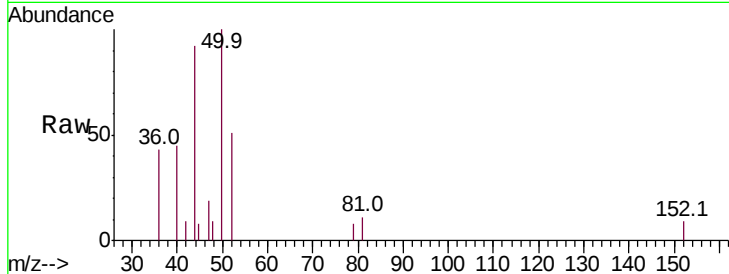
Acq: 18 Nov 2021 16:40

Tot Ion: 50 Resp: 2836

Ion Ratio Lower Upper

50 100

52 50.9 25.4 38.0#



#5

Vinyl Chloride

Concen: 27.255 ppbv

RT: 3.27 min Scan# 149

Delta R.T. 0.00 min

Lab File: VL038056.D

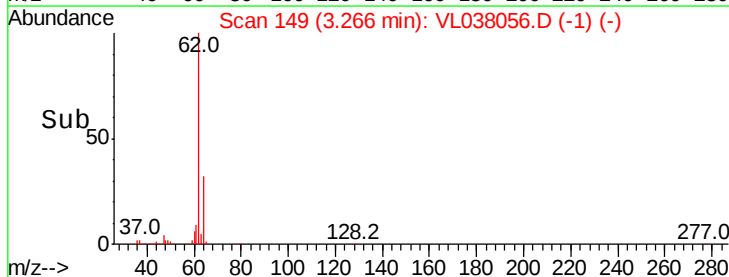
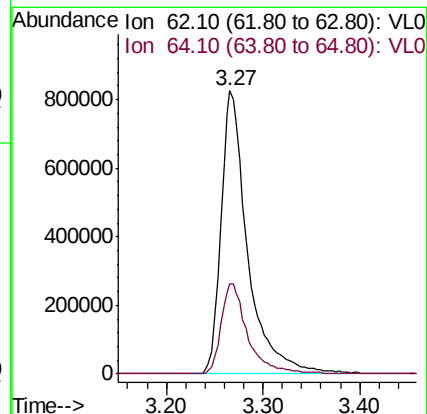
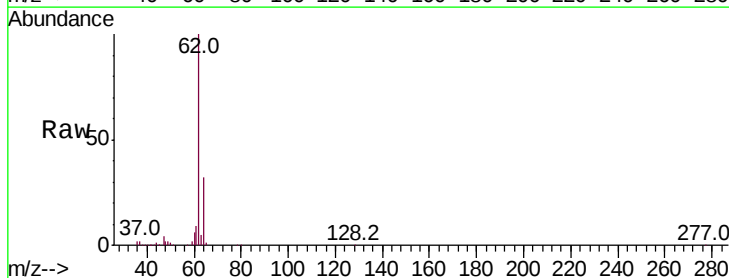
Acq: 18 Nov 2021 16:40

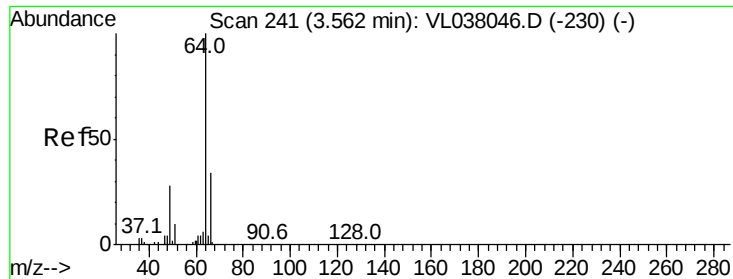
Tgt Ion: 62 Resp: 1574132

Ion Ratio Lower Upper

62 100

64 31.9 25.1 37.7





#7

Chloroethane

Concen: 24.310 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

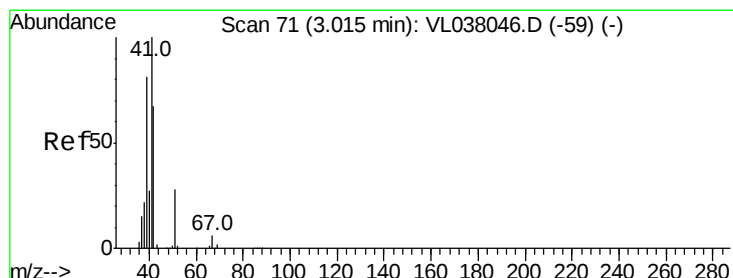
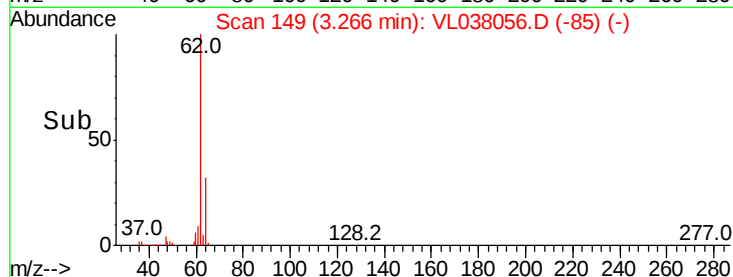
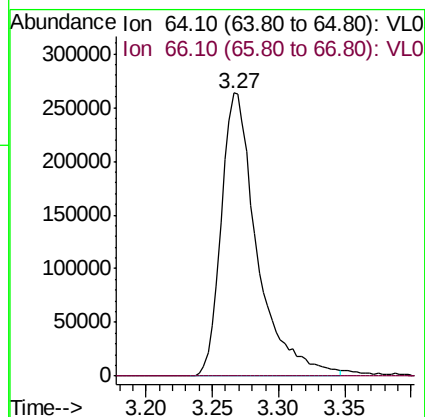
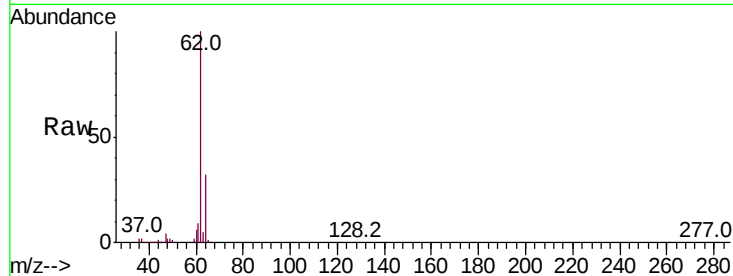
Acq: 18 Nov 2021 16:40 E058-1100

Tot Ion: 64 Resp: 498284

Ion Ratio Lower Upper

64 100

66 0.0 27.2 40.8#



#9

Propene

Concen: 0.045 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL038056.D

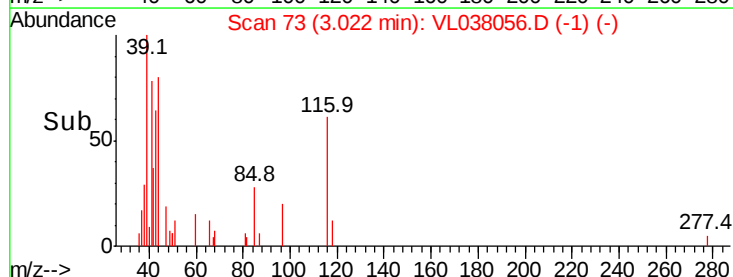
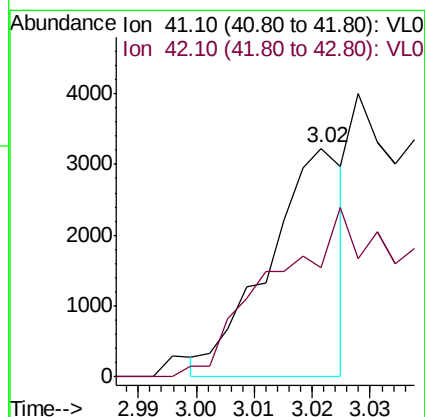
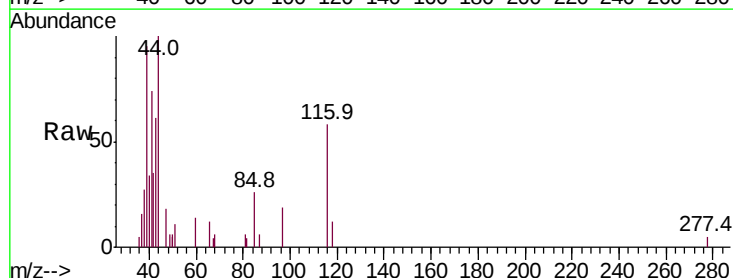
Acq: 18 Nov 2021 16:40

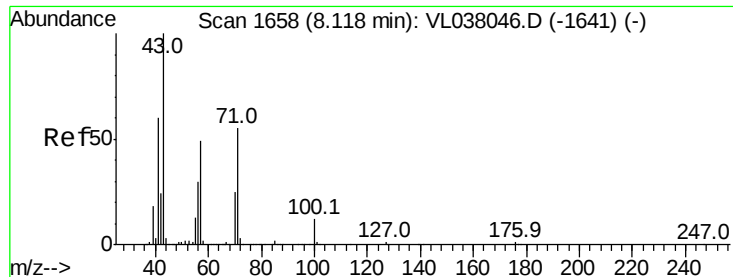
Tgt Ion: 41 Resp: 2890

Ion Ratio Lower Upper

41 100

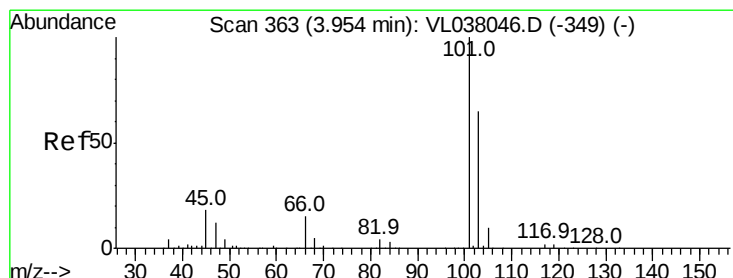
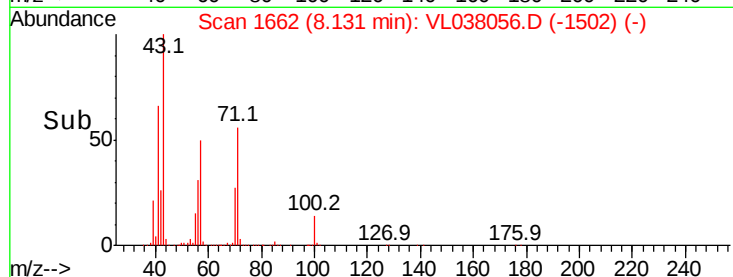
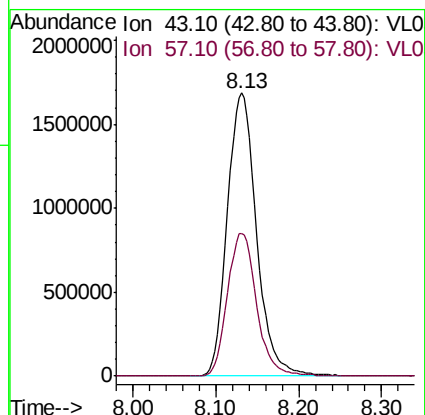
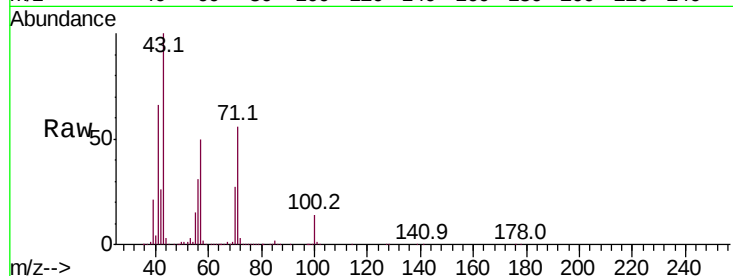
42 0.0 53.8 80.8#





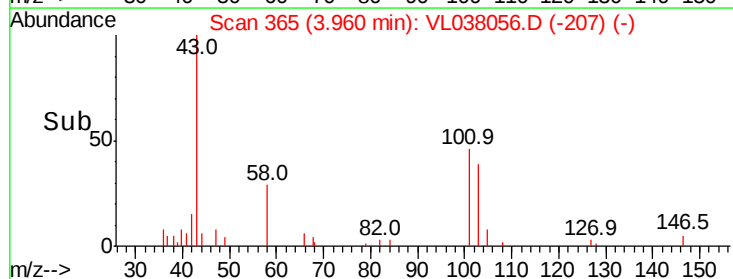
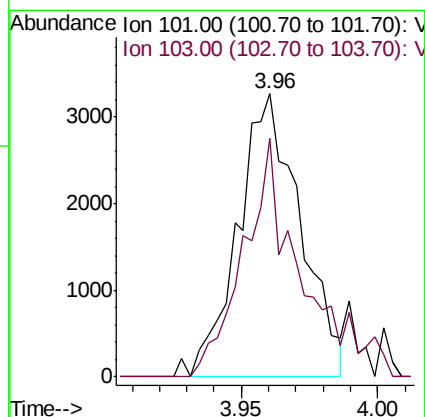
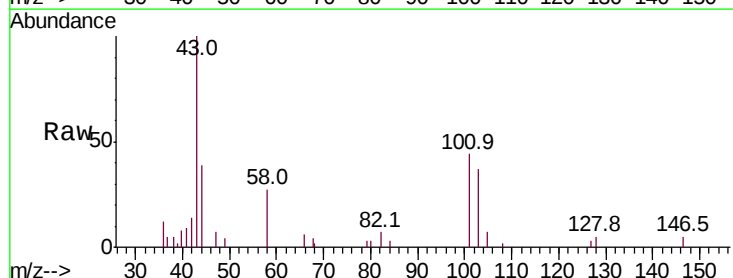
#10
Heptane
Concen: 26.293 ppbv
RT: 8.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 16:40

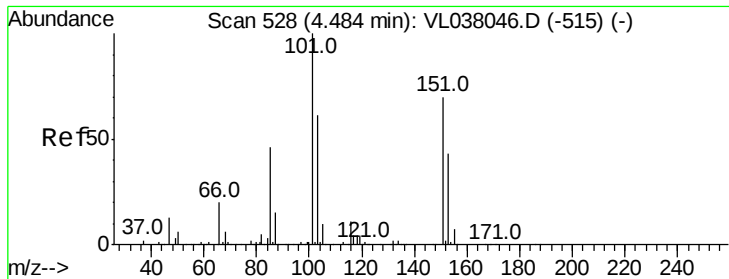
Tot Ion: 43 Resp: 4138901
Ion Ratio Lower Upper
43 100
57 50.8 40.4 60.6



#11
Trichlorofluoromethane
Concen: 0.040 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL038056.D
Acq: 18 Nov 2021 16:40

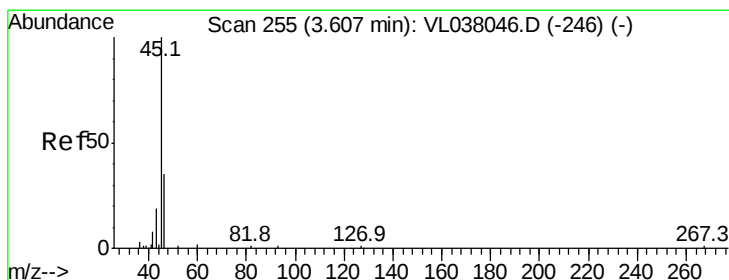
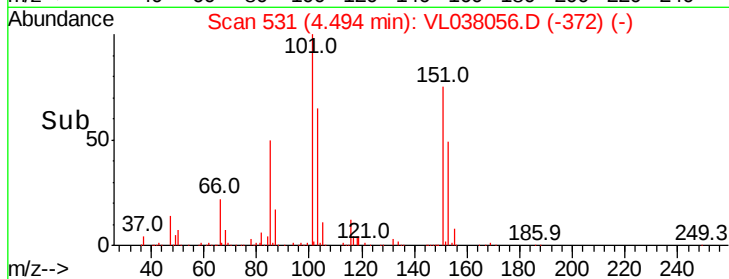
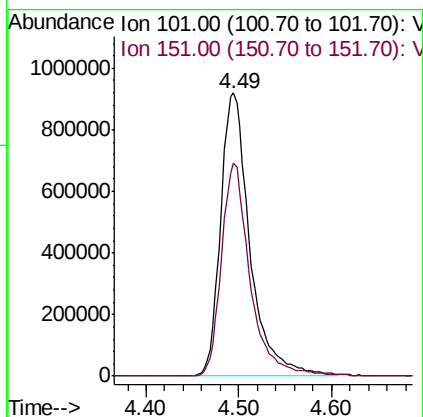
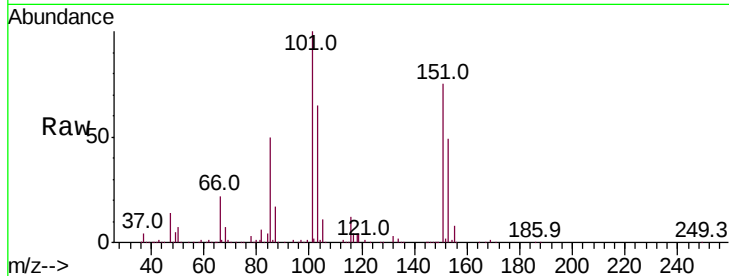
Tgt Ion: 101 Resp: 5134
Ion Ratio Lower Upper
101 100
103 84.4 51.8 77.6#





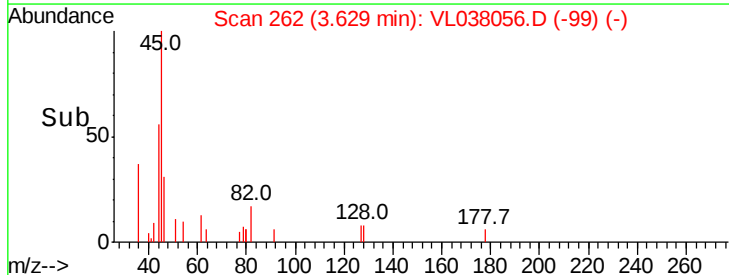
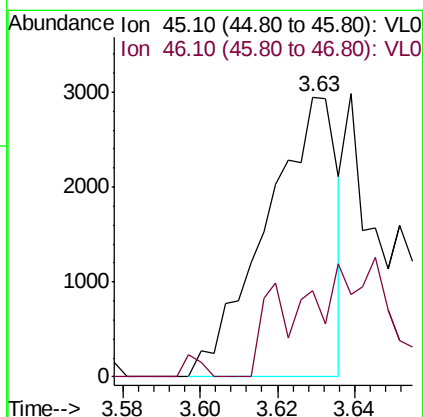
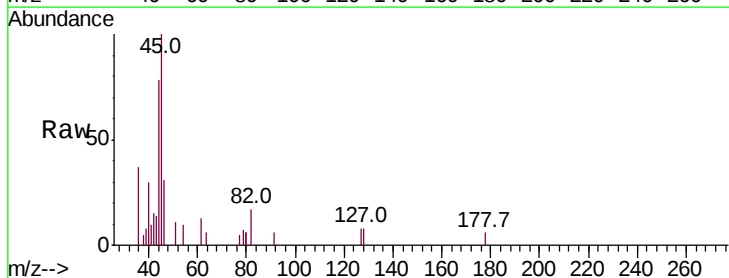
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 22.135 ppbv
 RT: 4.49
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 E058-1100
 Acq: 18 Nov 2021 16:40

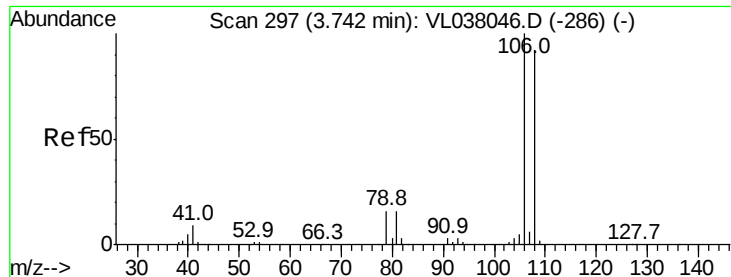
Tot Ion:101 Resp: 2025697
 Ion Ratio Lower Upper
 101 100
 151 73.7 59.0 88.4



#13
 Ethanol
 Concen: 0.608 ppbv
 RT: 3.63 min Scan# 262
 Delta R.T. 0.02 min
 Lab File: VL038056.D
 Acq: 18 Nov 2021 16:40

Tgt Ion: 45 Resp: 3741
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.6 70.2#





#14

Bromoethene

Concen: 0.331 ppbv

RT: 3.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Nov 2021 16:40 E058-1100

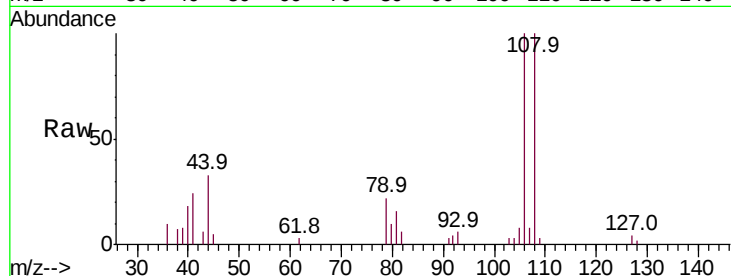
Tot Ion: 108 Resp: 13571

Ion Ratio Lower Upper

108 100

106 118.9 89.4 134.0

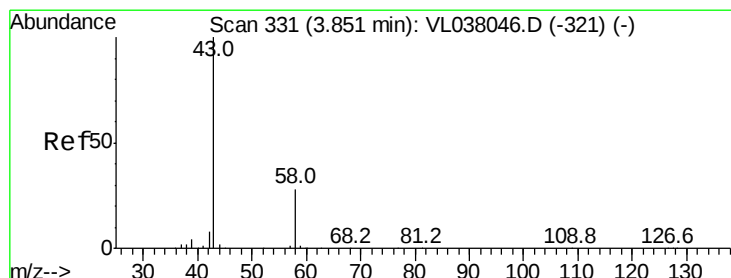
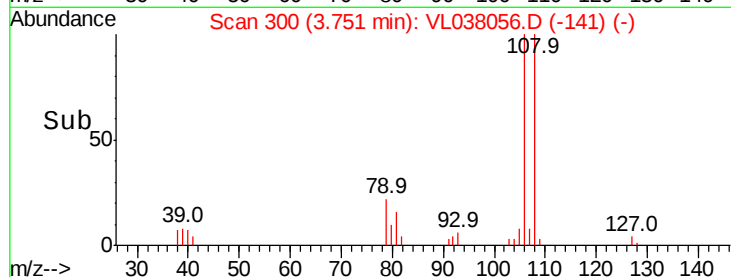
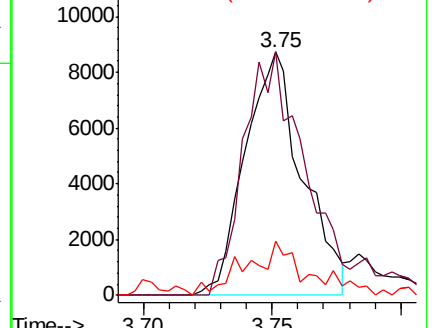
79 24.7 14.1 21.1#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VLO



#15

Acetone

Concen: 6.526 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL038056.D

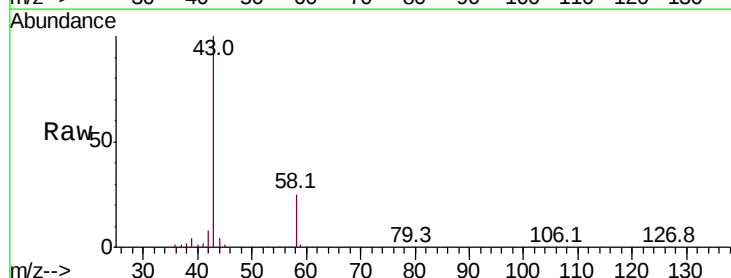
Acq: 18 Nov 2021 16:40

Tgt Ion: 43 Resp: 465941

Ion Ratio Lower Upper

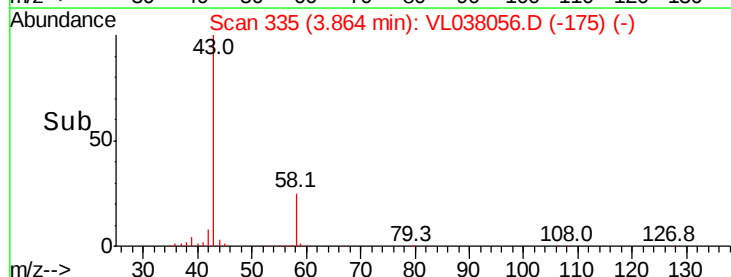
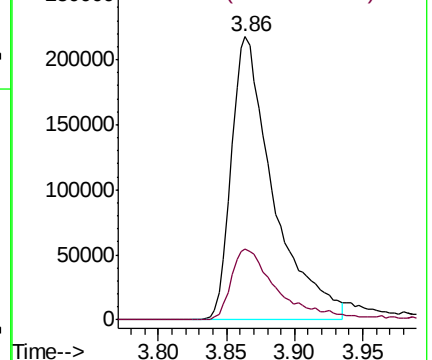
43 100

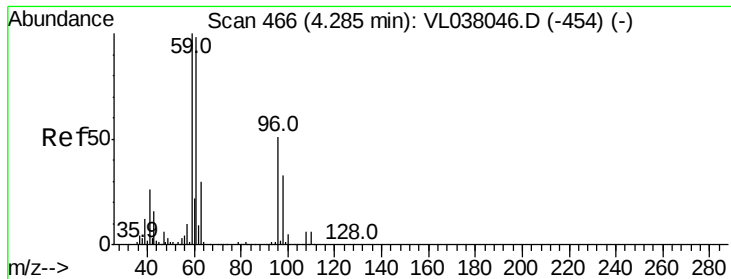
58 28.6 22.4 33.6



Abundance Ion 43.10 (42.80 to 43.80): VLO

Ion 58.10 (57.80 to 58.80): VLO





#17

tert-Butyl alcohol

Concen: 0.035 ppbv

RT: 4.33 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

E058-1100

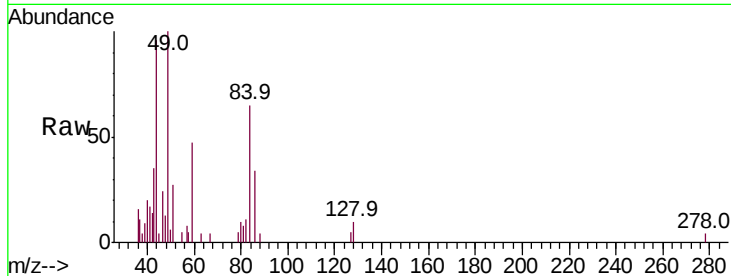
Acq: 18 Nov 2021 16:40

Tot Ion: 59 Resp: 3053

Ion Ratio Lower Upper

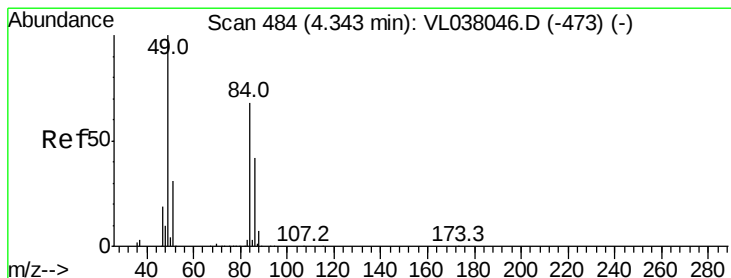
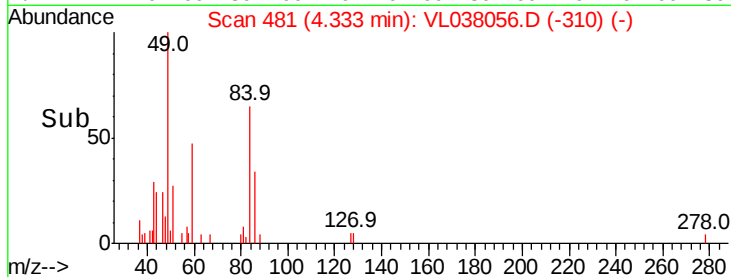
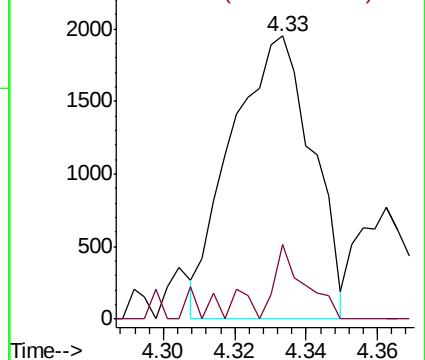
59 100

57 14.7 8.6 13.0#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#20

Methylene Chloride

Concen: 0.676 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL038056.D

Acq: 18 Nov 2021 16:40

Tgt Ion: 84 Resp: 27034

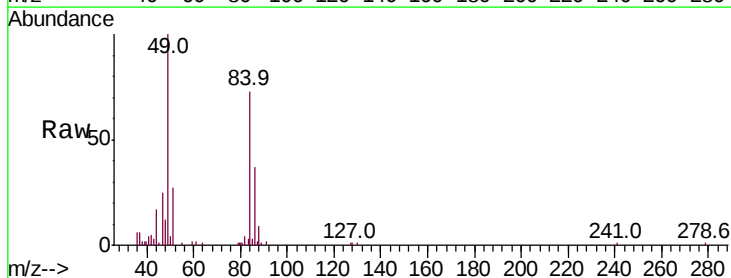
Ion Ratio Lower Upper

84 100

49 139.1 118.2 177.2

51 37.3 36.8 55.2

86 51.0 49.0 73.6

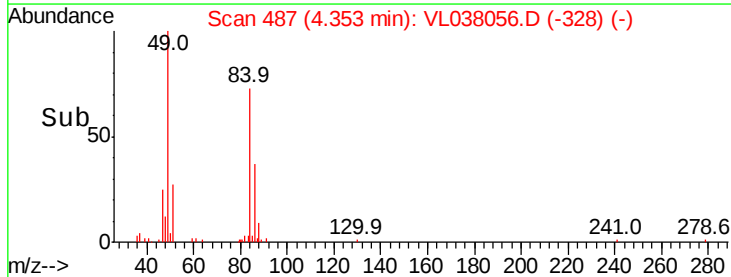
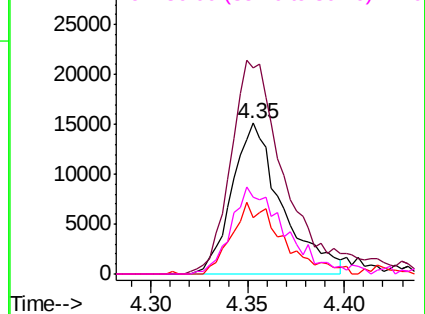


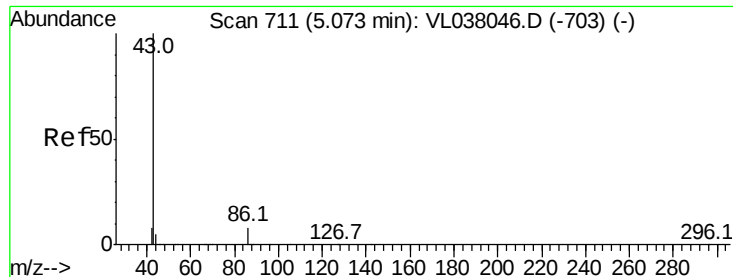
Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.162 ppbv

RT: 5.08 Instrument: MSVOA_1

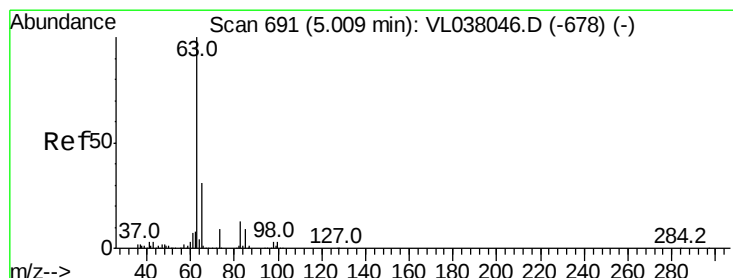
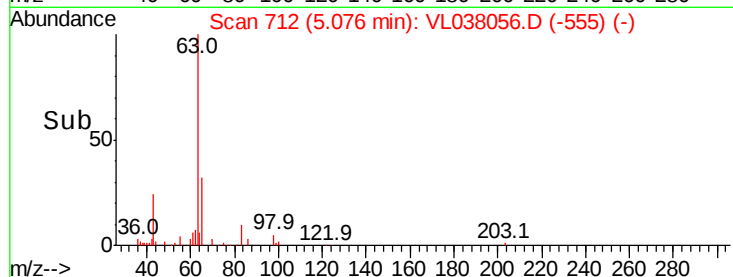
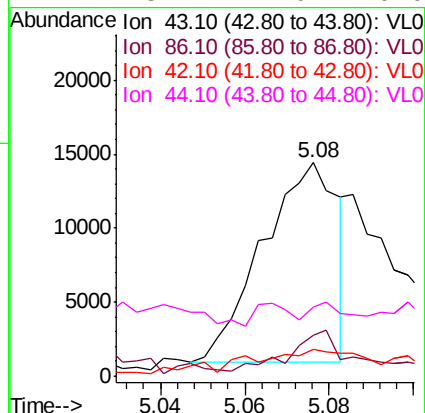
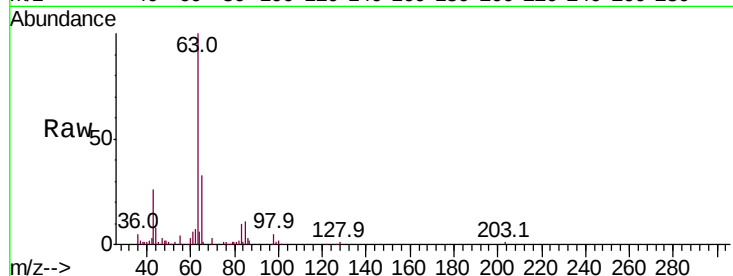
Delta R.T.

Lab File: ClientSampleId:

Acq: 18 Nov 2021 16:40 E058-1100

Tot Ion: 43 Resp: 16707

Ion	Ratio	Lower	Upper
43	100		
86	13.6	5.3	7.9#
42	8.5	7.0	10.6
44	3.2	4.0	6.0#



#24

1,1-Dichloroethane

Concen: 30.107 ppbv

RT: 5.02 min Scan# 694

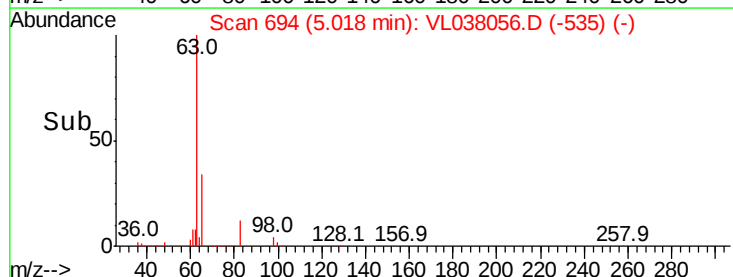
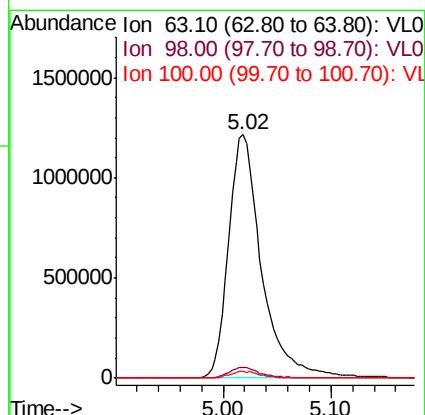
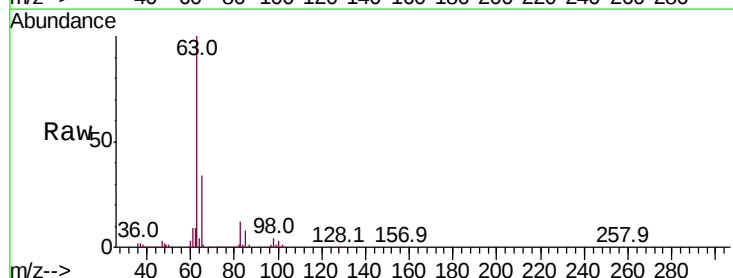
Delta R.T. 0.01 min

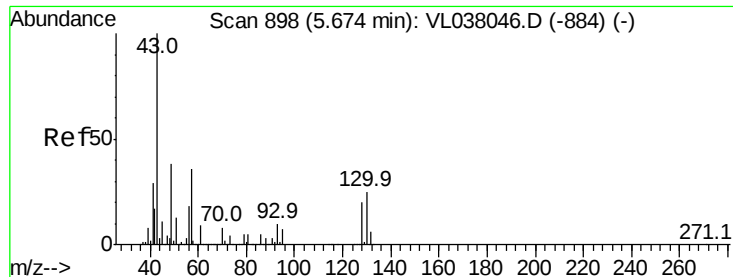
Lab File: VL038056.D

Acq: 18 Nov 2021 16:40

Tgt Ion: 63 Resp: 2591285

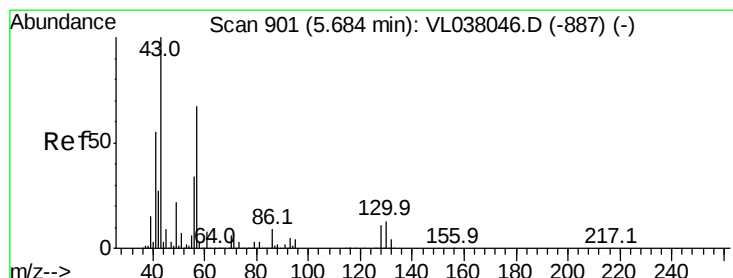
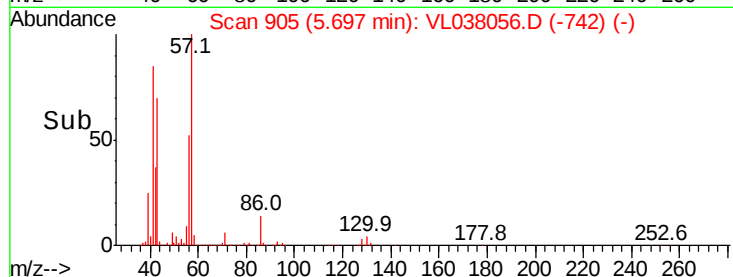
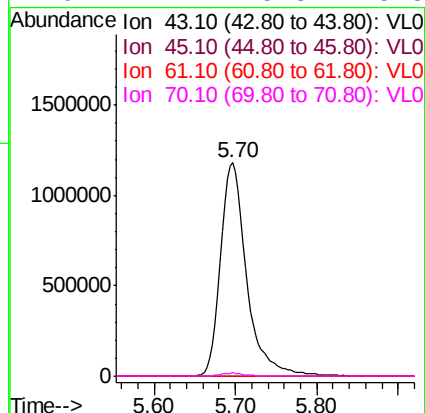
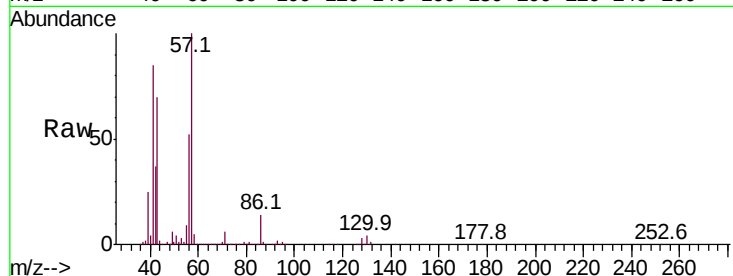
Ion	Ratio	Lower	Upper
63	100		
98	4.3	1.8	5.4
100	2.7	1.4	4.0





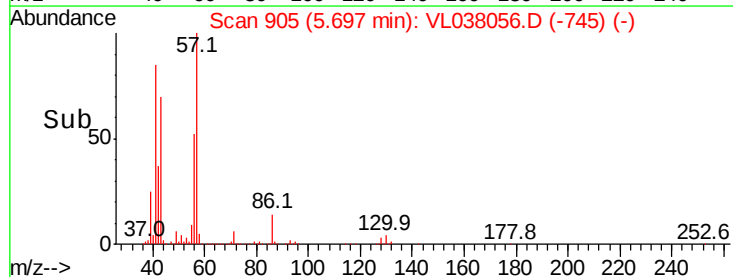
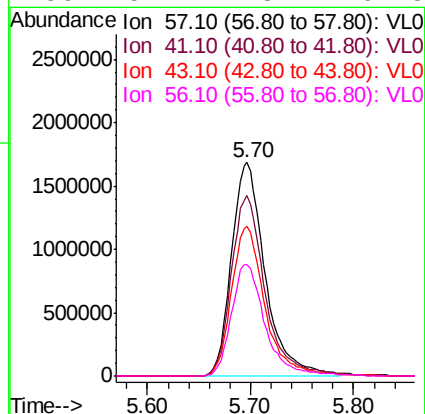
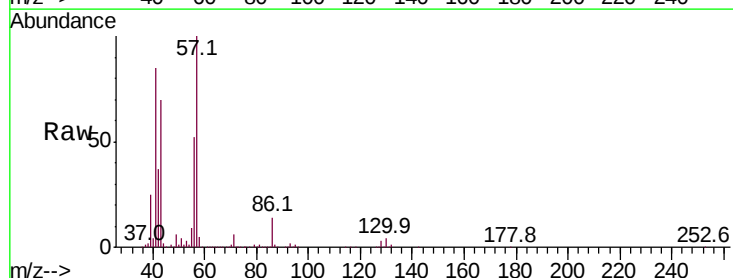
#25
Ethyl Acetate
Concen: 11.305 ppbv
RT: 5.70 min
Instrument: MSVOA_1
Delta R.T.: 0.01 min
Lab File: ClientSampleId : E058-1100
Acq: 18 Nov 2021 16:40

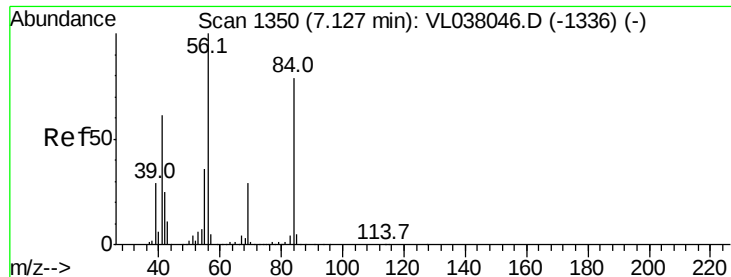
Tot Ion:	43	Resp:	2682769
Ion	Ratio	Lower	Upper
43	100		
45	0.1	7.9	11.9#
61	0.1	7.8	11.6#
70	1.4	5.8	8.8#



#26
Hexane
Concen: 33.558 ppbv
RT: 5.70 min Scan# 905
Delta R.T.: 0.01 min
Lab File: VL038056.D
Acq: 18 Nov 2021 16:40

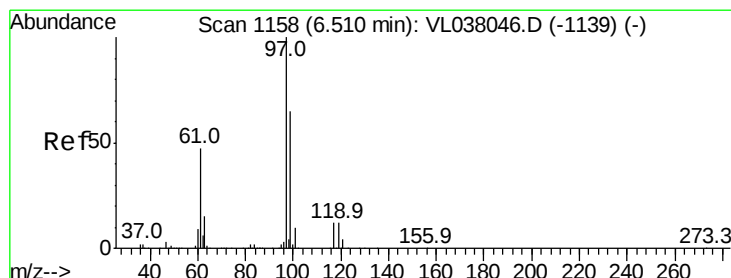
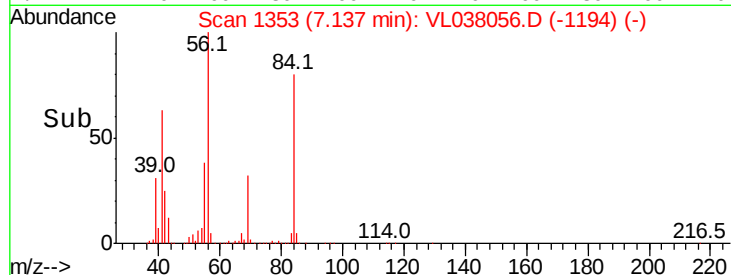
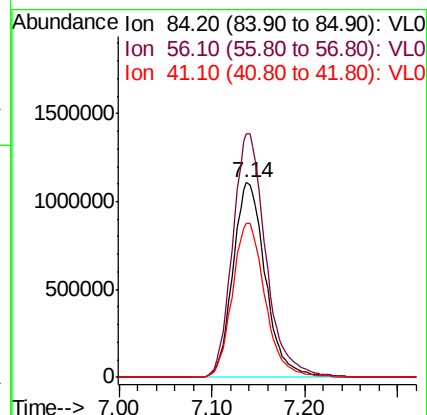
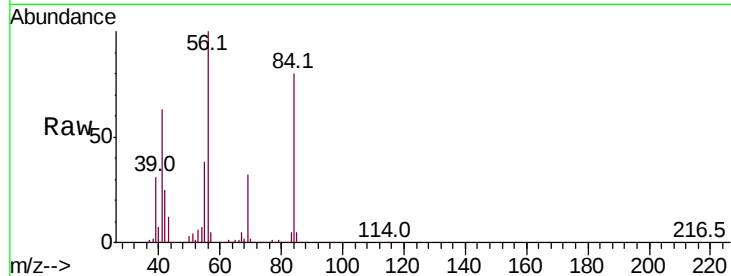
Tgt Ion:	57	Resp:	3838230
Ion	Ratio	Lower	Upper
57	100		
41	85.1	71.4	107.2
43	70.1	174.6	261.8#
56	52.7	43.2	64.8





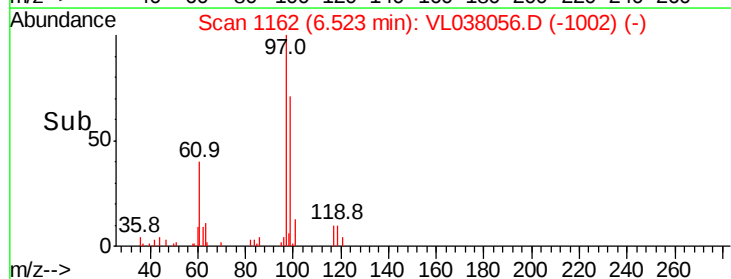
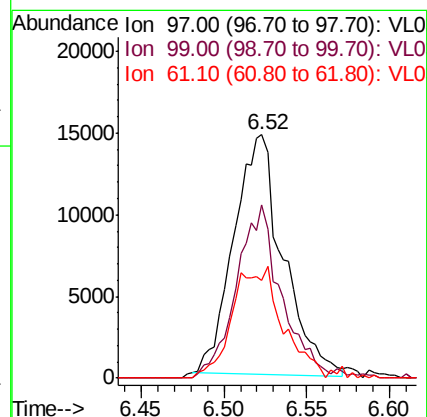
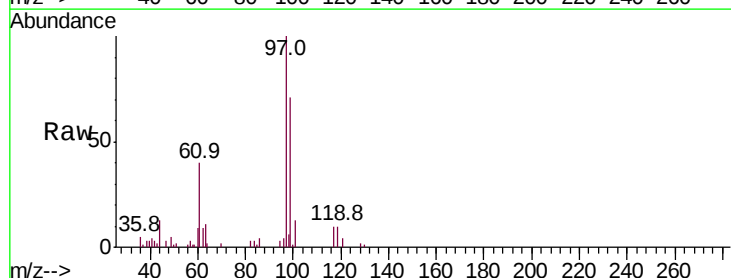
#30
Cvclohexane
Concen: 25.932 ppbv
RT: 7.14
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 16:40

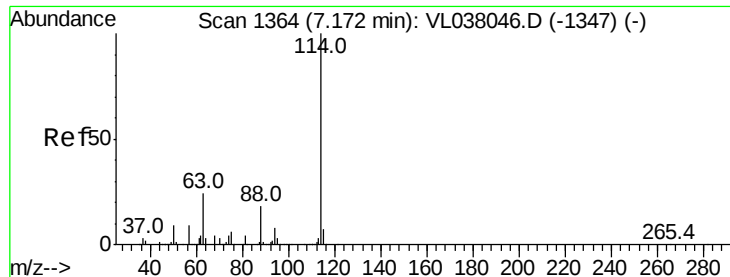
Tot Ion: 84 Resp: 2692771
Ion Ratio Lower Upper
84 100
56 128.3 108.1 162.1
41 79.7 64.4 96.6



#32
1,1,1-Trichloroethane
Concen: 0.177 ppbv
RT: 6.52 min Scan# 1162
Delta R.T. 0.01 min
Lab File: VL038056.D
Acq: 18 Nov 2021 16:40

Tgt Ion: 97 Resp: 30344
Ion Ratio Lower Upper
97 100
99 66.8 52.2 78.4
61 48.5 37.7 56.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: E058-1100

Acq: 18 Nov 2021 16:40

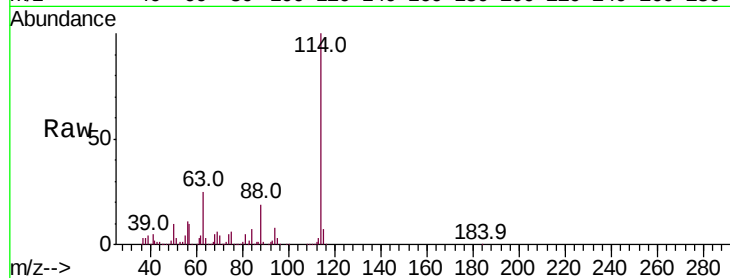
Tot Ion:114 Resp: 2508293

Ion Ratio Lower Upper

114 100

63 25.7 19.7 29.5

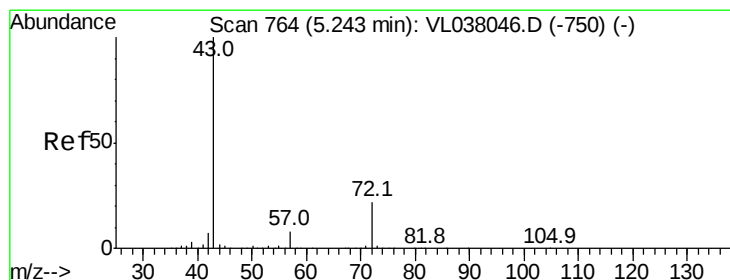
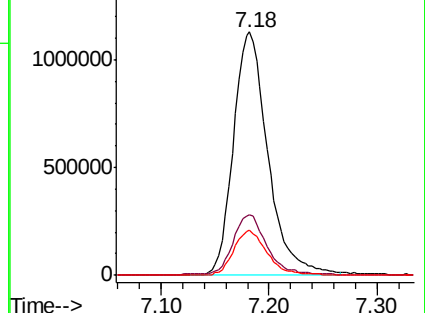
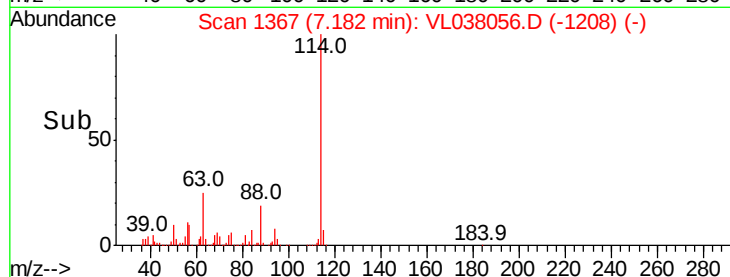
88 18.4 14.4 21.6



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: 1.186 ppbv

RT: 5.27 min Scan# 771

Delta R.T. 0.02 min

Lab File: VL038056.D

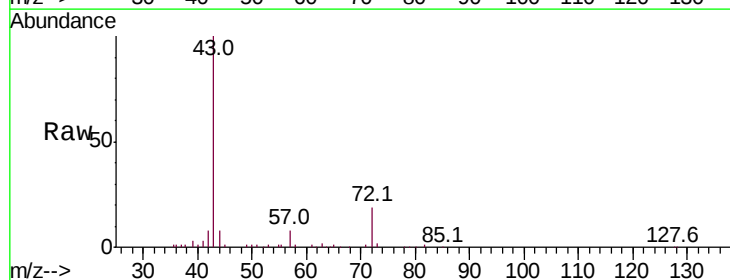
Acq: 18 Nov 2021 16:40

Tgt Ion: 43 Resp: 119976

Ion Ratio Lower Upper

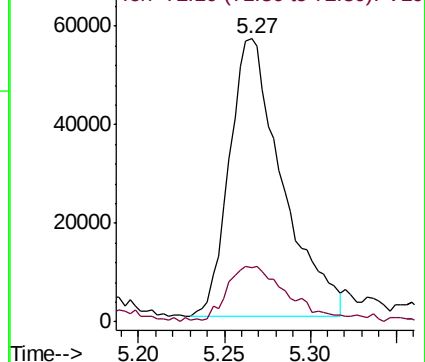
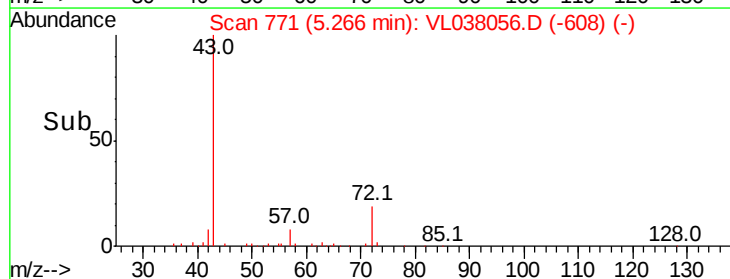
43 100

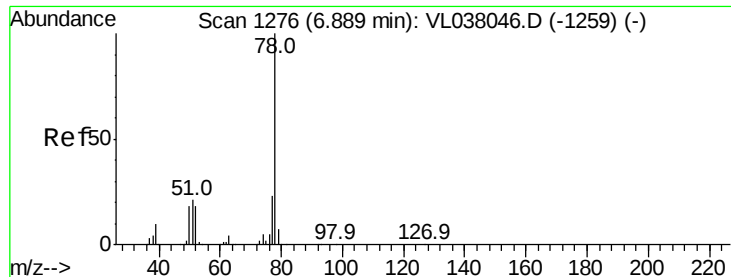
72 25.8 18.8 28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

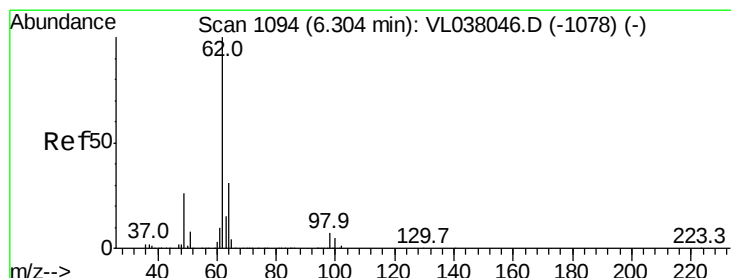
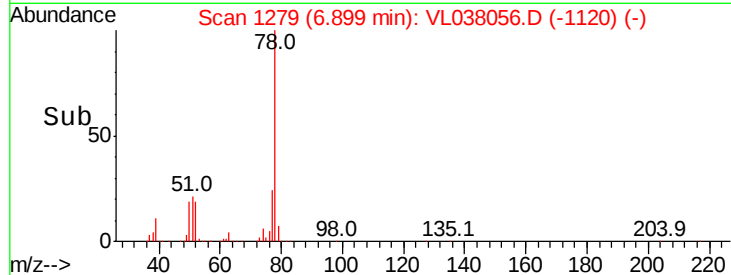
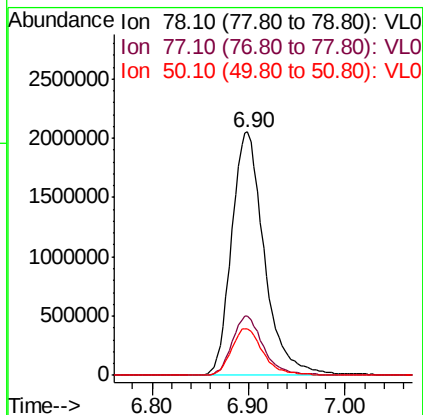
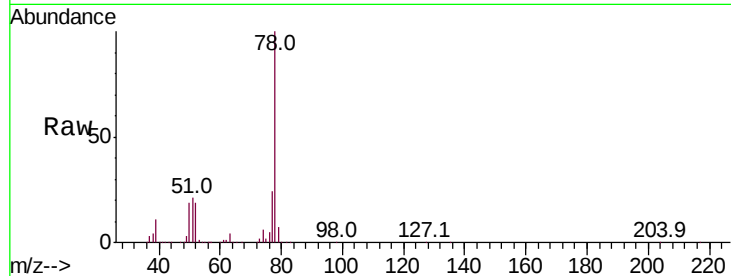




#36
Benzene
Concen: 19.242 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 16:40

Tot Ion: 78 Resp: 4814414

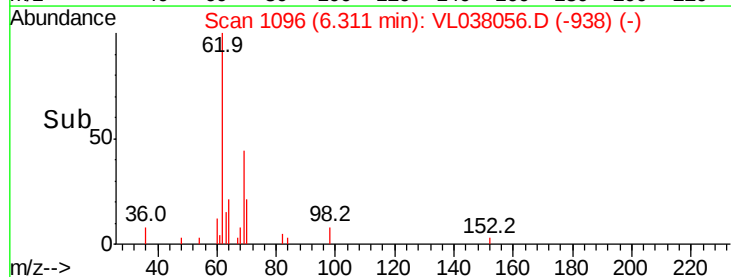
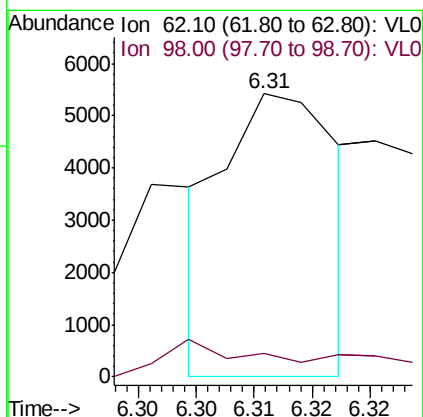
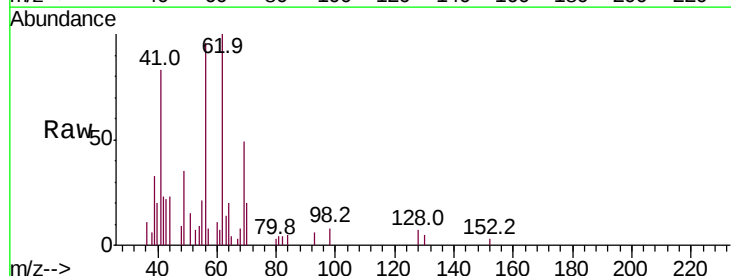
Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.2	27.4
50	19.0	14.7	22.1

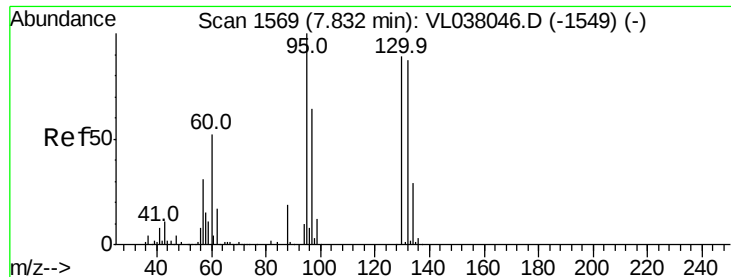


#37
1,2-Dichloroethane
Concen: 0.030 ppbv
RT: 6.31 min Scan# 1096
Delta R.T. 0.01 min
Lab File: VL038056.D
Acq: 18 Nov 2021 16:40

Tgt Ion: 62 Resp: 3685

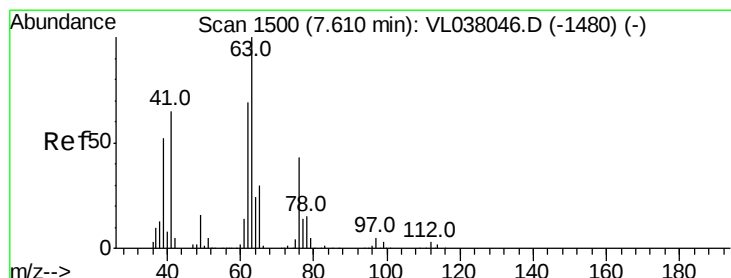
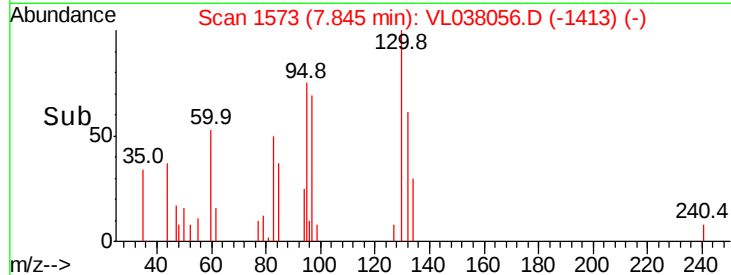
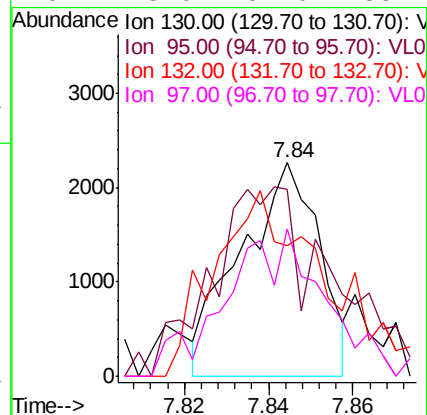
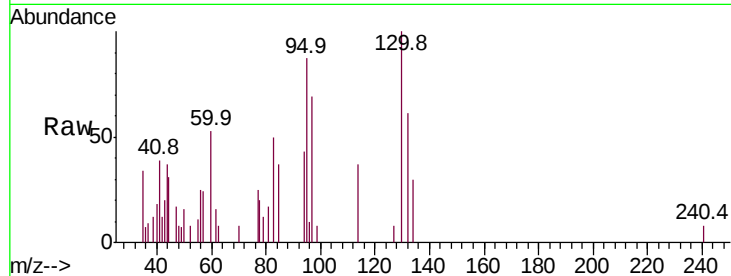
Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.8	8.6#





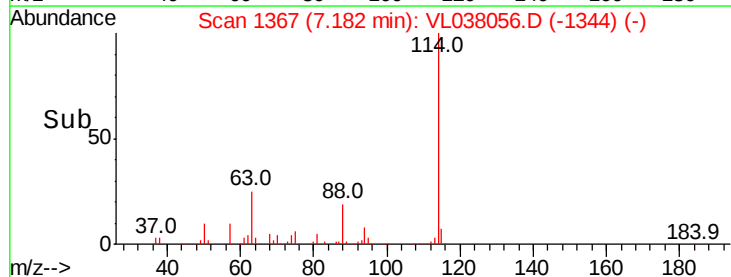
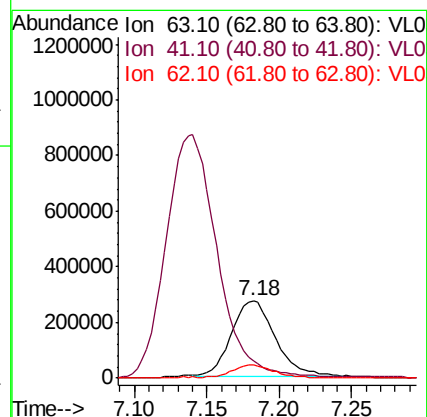
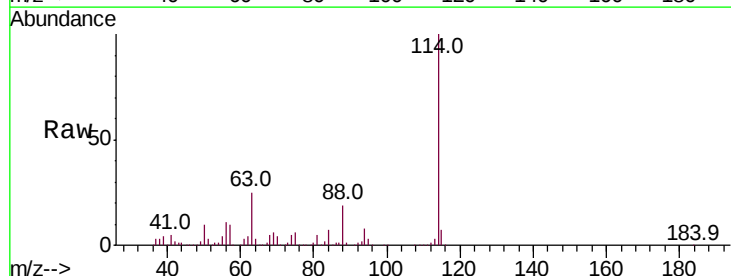
#38
 Trichloroethene
 Concen: 0.031 ppbv
 RT: 7.84
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 E058-1100
 Acq: 18 Nov 2021 16:40

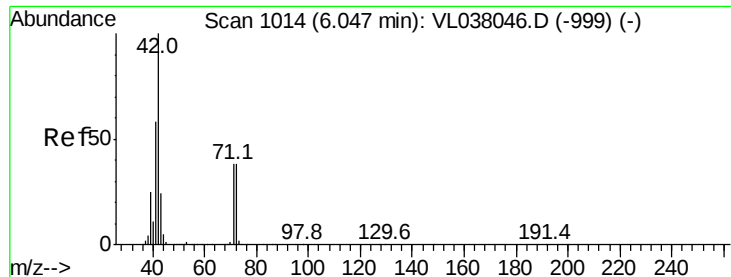
Tot Ion:130 Resp: 2931
 Ion Ratio Lower Upper
 130 100
 95 77.5 89.4 134.2#
 132 36.5 78.2 117.2#
 97 73.0 57.0 85.4



#39
 1,2-Dichloropropane
 Concen: 5.916 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.43 min
 Lab File: VL038056.D
 Acq: 18 Nov 2021 16:40

Tgt Ion: 63 Resp: 567834
 Ion Ratio Lower Upper
 63 100
 41 21.0 52.3 78.5#
 62 18.0 55.1 82.7#





#41

Tetrahydrofuran

Concen: 22.069 ppbv

RT: 5.70 Instrument:

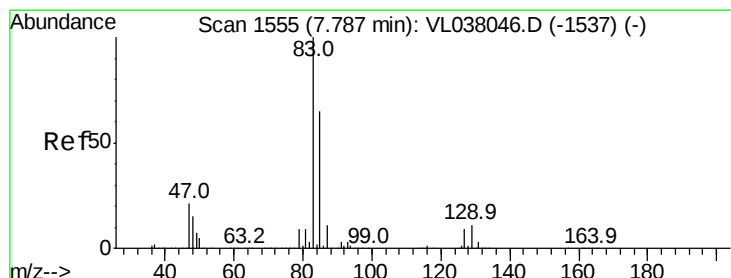
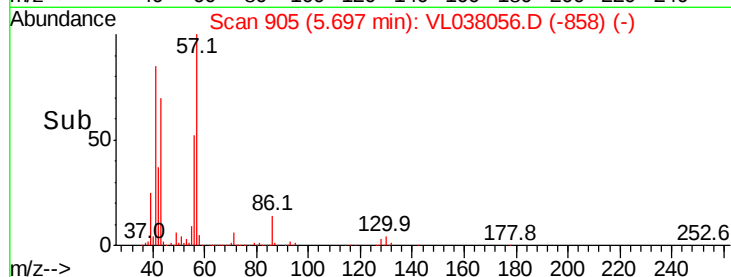
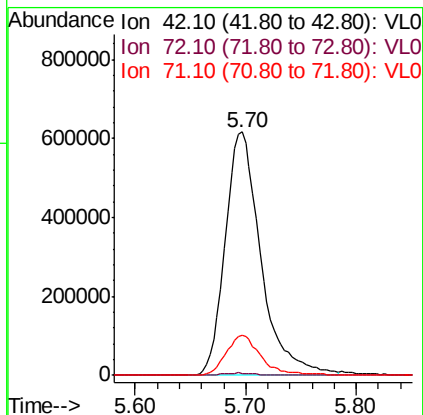
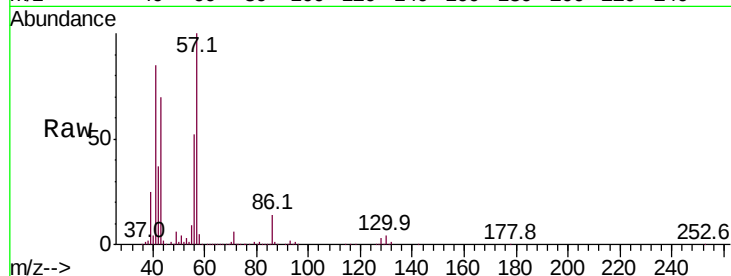
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Nov 2021 16:40 E058-1100

Tot Ion: 42 Resp: 1385603

Ion	Ratio	Lower	Upper
42	100		
72	0.9	31.7	47.5#
71	16.3	30.6	46.0#



#42

Bromodichloromethane

Concen: 0.165 ppbv

RT: 7.80 min Scan# 1559

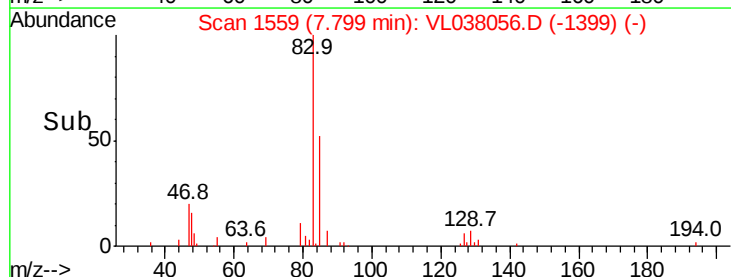
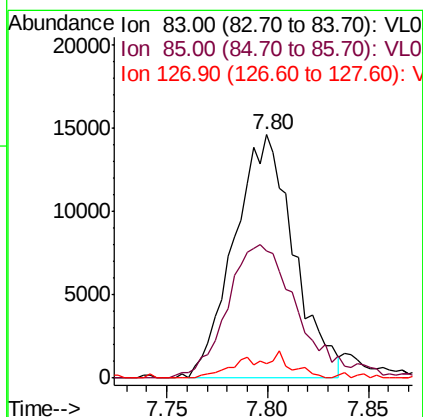
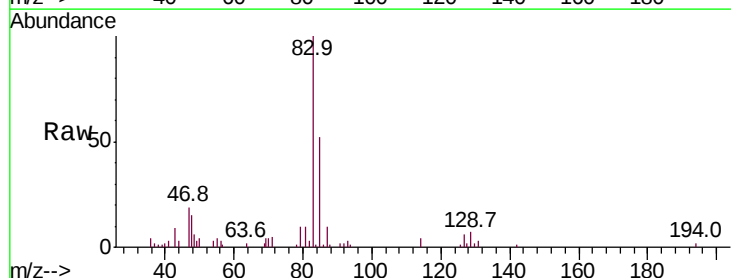
Delta R.T. 0.01 min

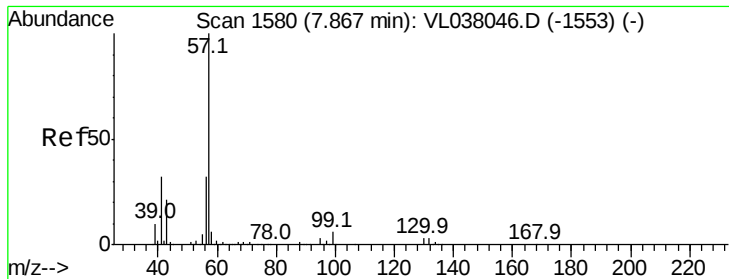
Lab File: VL038056.D

Acq: 18 Nov 2021 16:40

Tgt Ion: 83 Resp: 30227

Ion	Ratio	Lower	Upper
83	100		
85	49.9	51.9	77.9#
127	7.8	6.8	10.2





#44

2,2,4-Trimethylpentane

Concen: 4.966 ppbv

RT: 8.13 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 18 Nov 2021 16:40 E058-1100

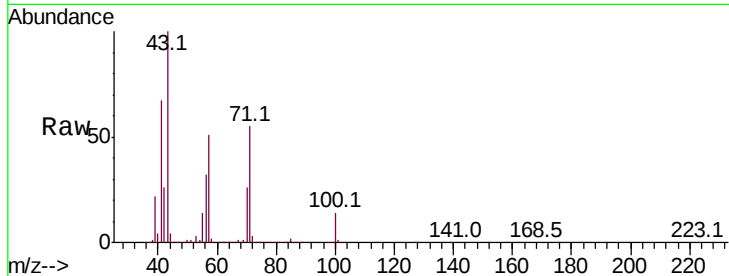
Tot Ion: 57 Resp: 2078714

Ion Ratio Lower Upper

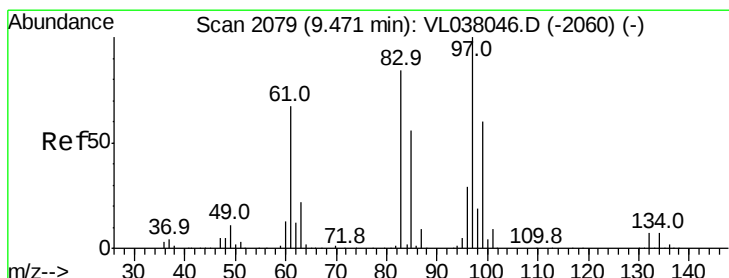
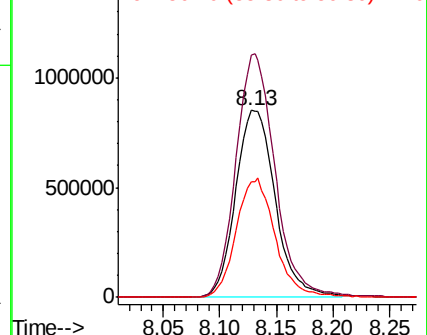
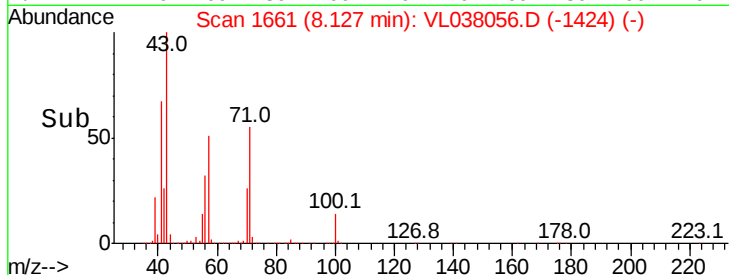
57 100

41 128.7 25.8 38.6#

56 0.0 25.6 38.4#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.125 ppbv

RT: 9.48 min Scan# 2083

Delta R.T. 0.01 min

Lab File: VL038056.D

Acq: 18 Nov 2021 16:40

Tgt Ion: 97 Resp: 12597

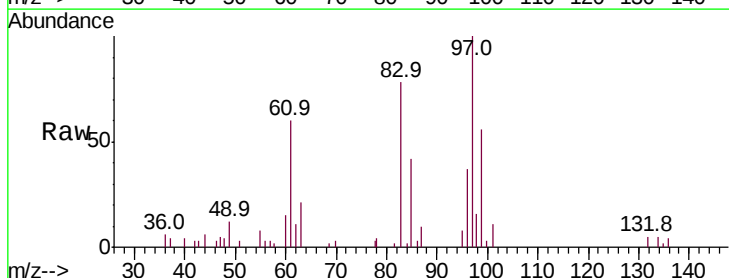
Ion Ratio Lower Upper

97 100

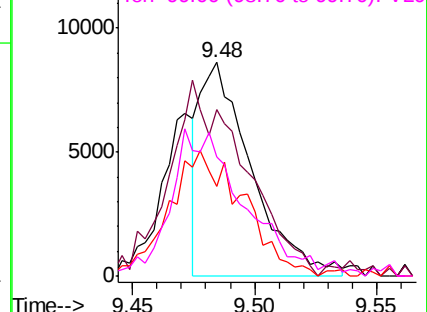
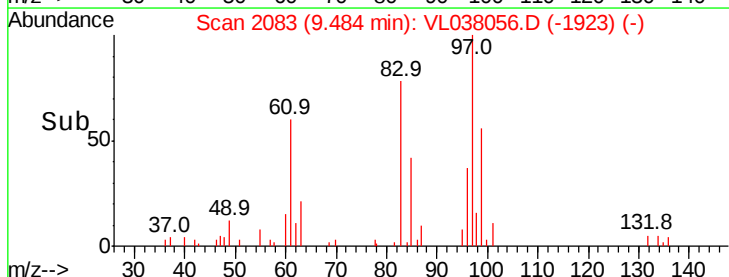
83 76.9 66.8 100.2

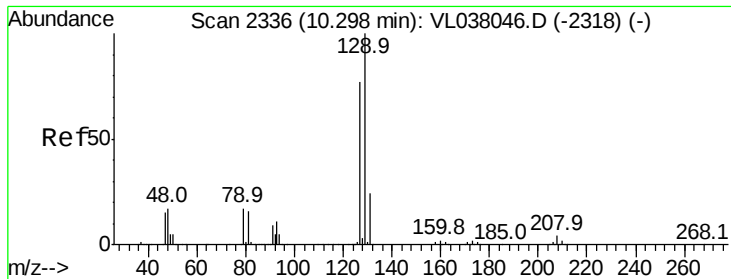
85 40.2 44.9 67.3#

99 55.8 48.0 72.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0





#48

Dibromochloromethane

Concen: 19.551 ppbv

RT: 10.31

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

E058-1100

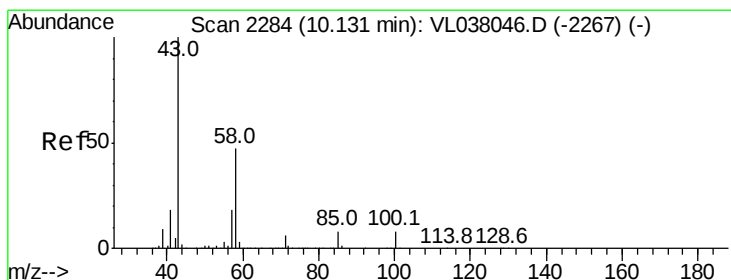
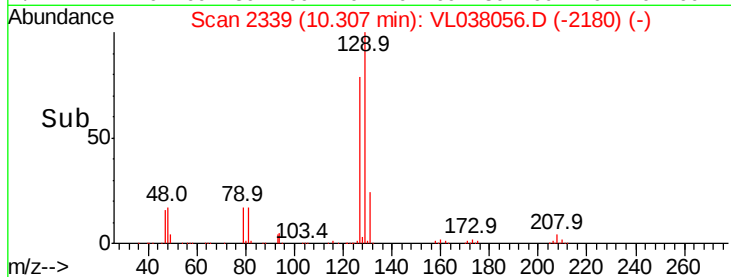
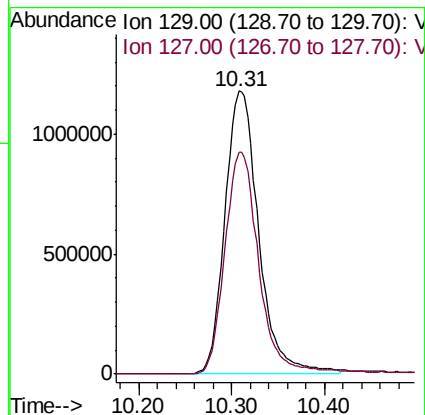
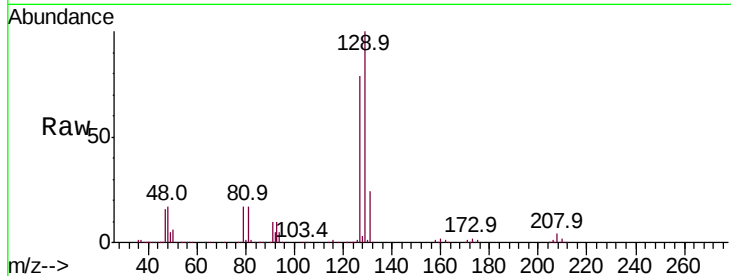
Acq: 18 Nov 2021 16:40

Tot Ion: 129 Resp: 2992953

Ion Ratio Lower Upper

129 100

127 80.5 39.4 118.1



#51

2-Hexanone

Concen: 0.394 ppbv

RT: 10.15 min Scan# 2290

Delta R.T. 0.02 min

Lab File: VL038056.D

Acq: 18 Nov 2021 16:40

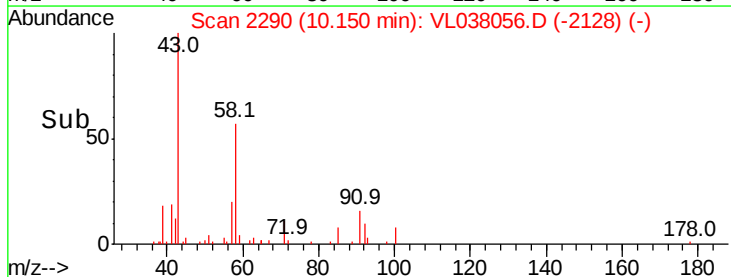
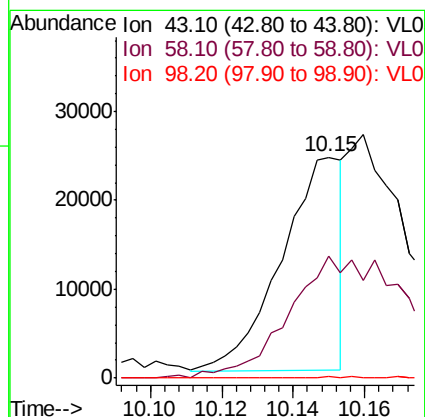
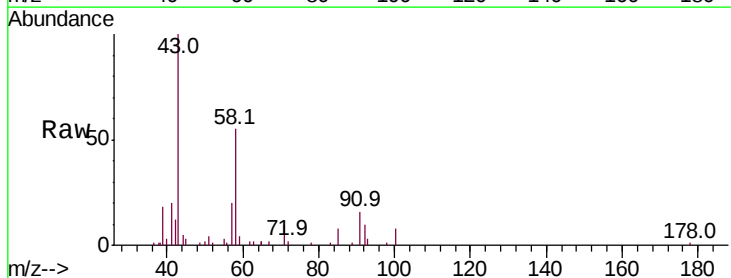
Tgt Ion: 43 Resp: 28485

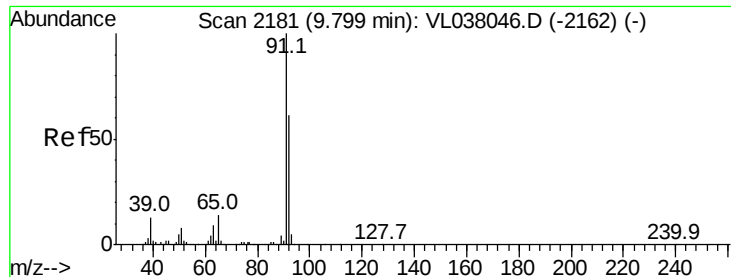
Ion Ratio Lower Upper

43 100

58 137.0 41.1 61.7#

98 0.0 0.1 0.1#





#53

Toluene

Concen: 18.469 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

E058-1100

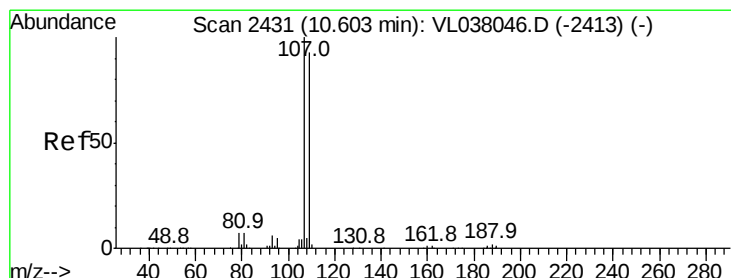
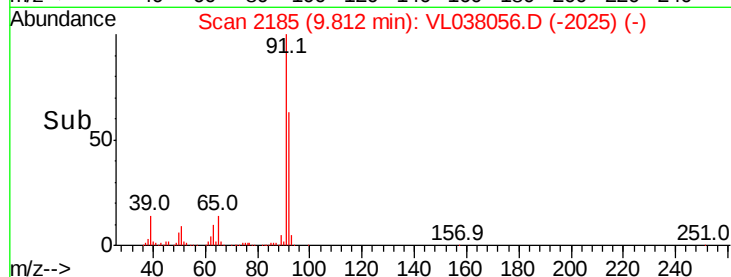
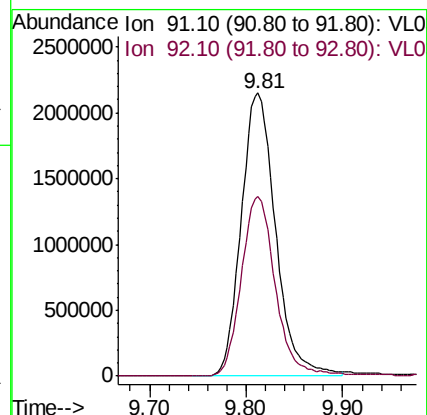
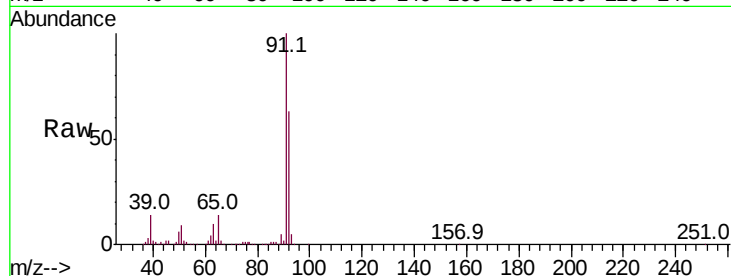
Acq: 18 Nov 2021 16:40

Tot Ion: 91 Resp: 5316804

Ion Ratio Lower Upper

91 100

92 63.4 49.7 74.5



#54

1,2-Dibromoethane

Concen: 31.842 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. 0.01 min

Lab File: VL038056.D

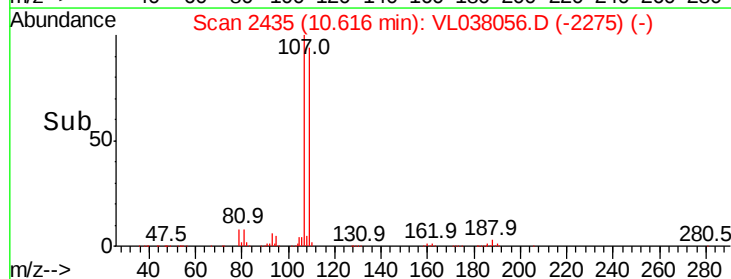
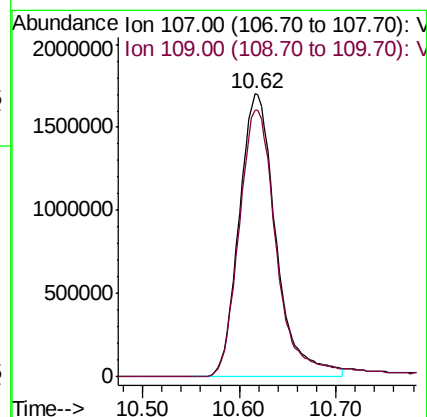
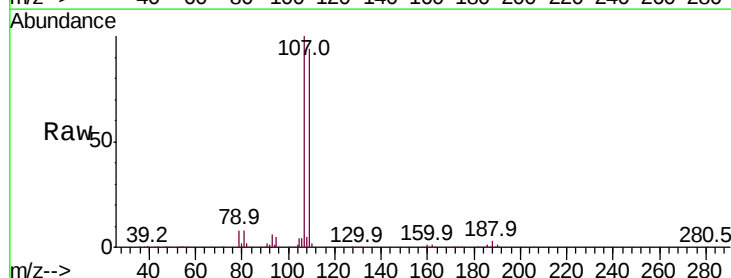
Acq: 18 Nov 2021 16:40

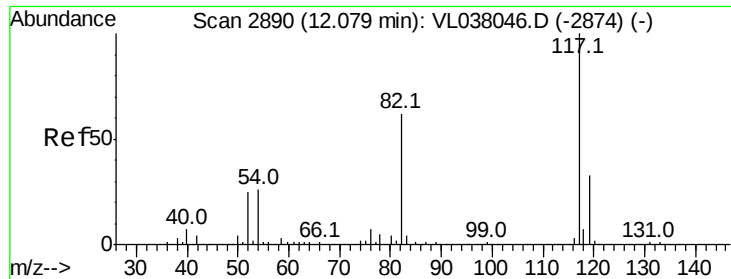
Tgt Ion: 107 Resp: 4521165

Ion Ratio Lower Upper

107 100

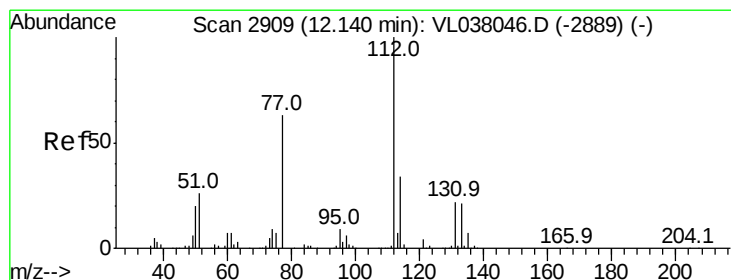
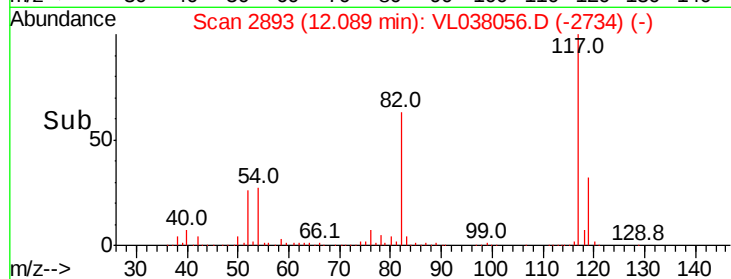
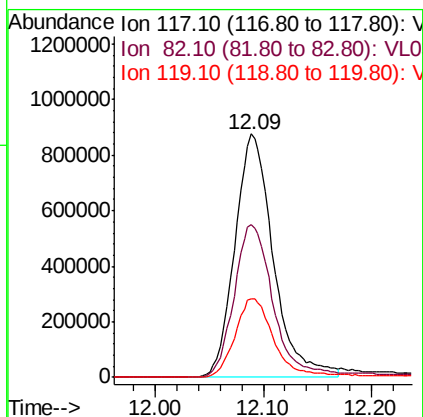
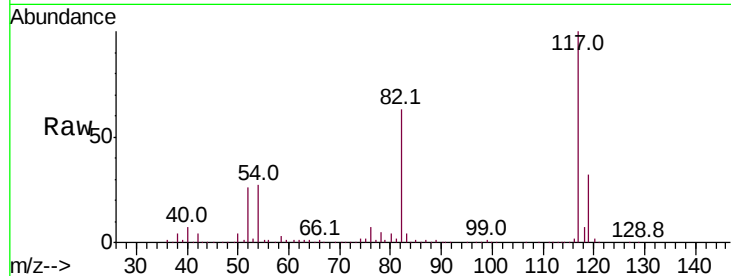
109 94.4 74.6 111.8





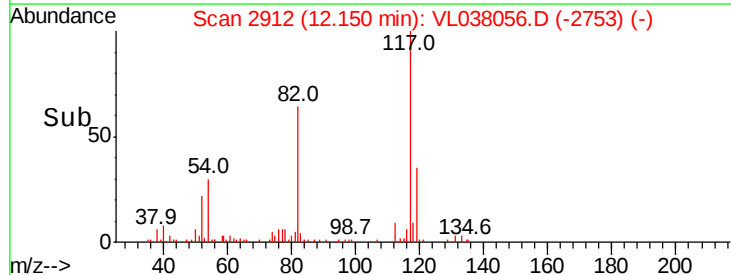
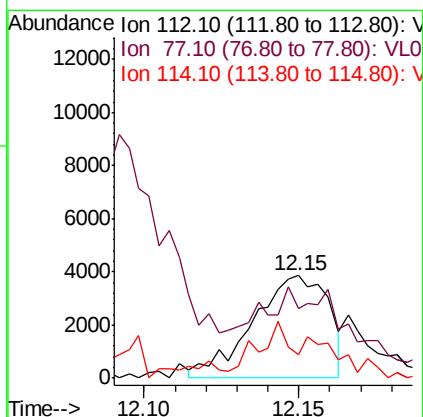
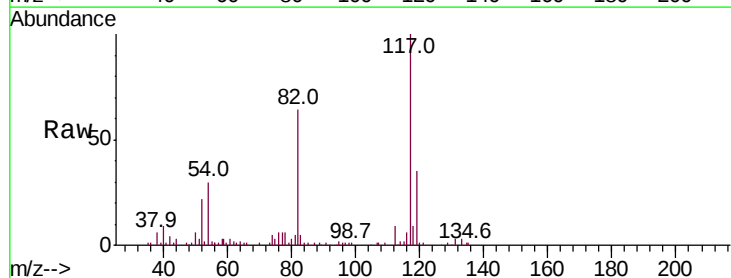
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
E058-1100
Acq: 18 Nov 2021 16:40

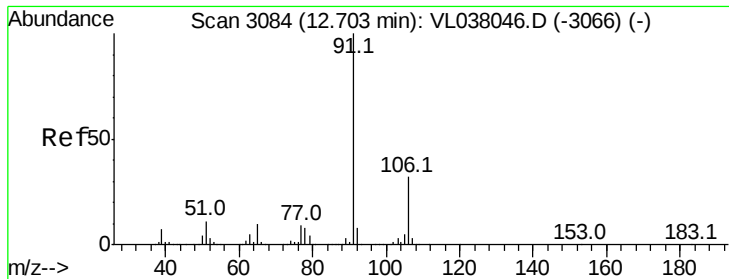
Tot Ion:117 Resp: 2178675
Ion Ratio Lower Upper
117 100
82 67.7 52.8 79.2
119 34.5 26.8 40.2



#57
Chlorobenzene
Concen: 0.034 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. 0.01 min
Lab File: VL038056.D
Acq: 18 Nov 2021 16:40

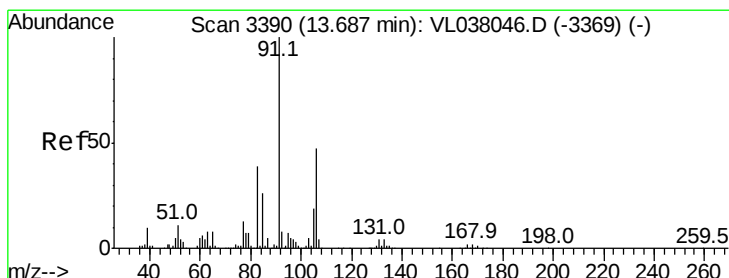
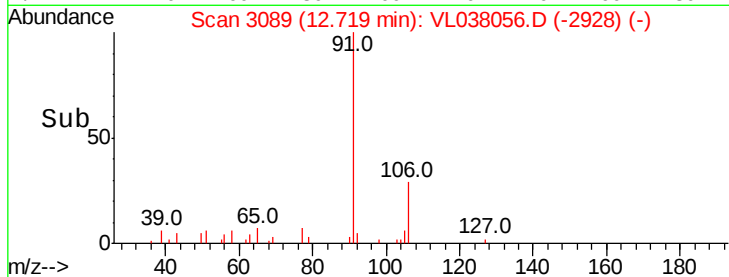
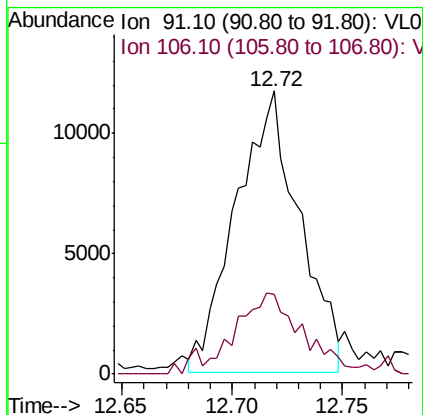
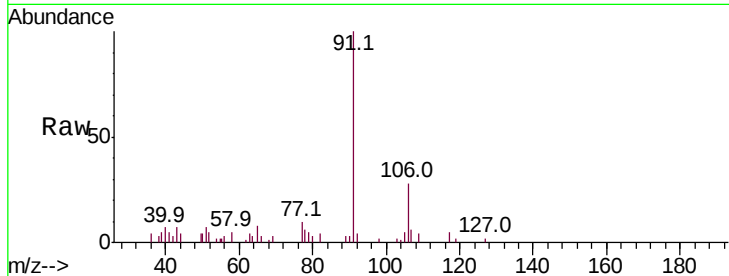
Tgt Ion:112 Resp: 6555
Ion Ratio Lower Upper
112 100
77 21.6 50.3 75.5#
114 12.0 30.7 37.5#





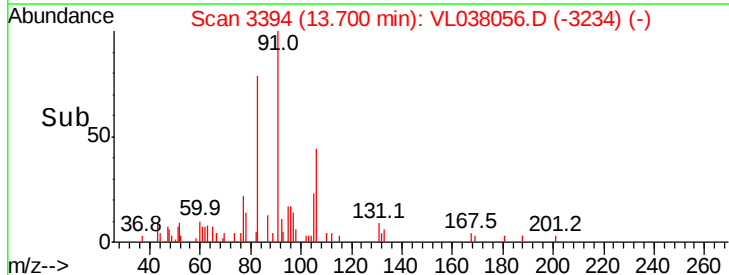
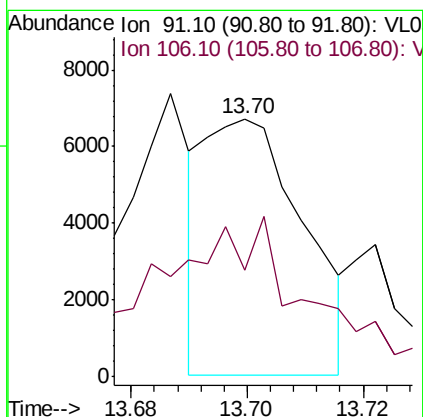
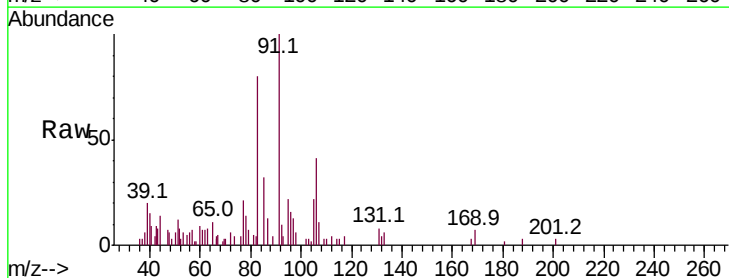
#58
Ethyl Benzene
Concen: 0.065 ppbv
RT: 12.72 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
E058-1100
Acq: 18 Nov 2021 16:40

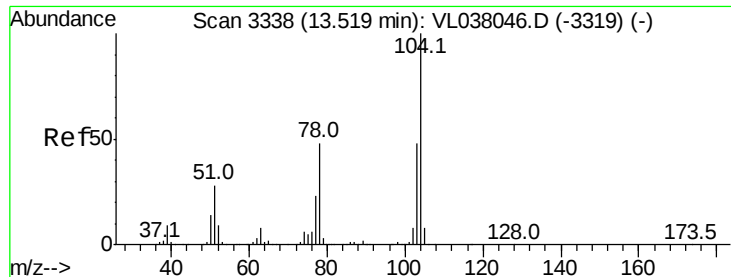
Tot Ion: 91 Resp: 23412
Ion Ratio Lower Upper
91 100
106 29.6 25.8 38.6



#60
o-Xylene
Concen: 0.028 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. 0.01 min
Lab File: VL038056.D
Acq: 18 Nov 2021 16:40

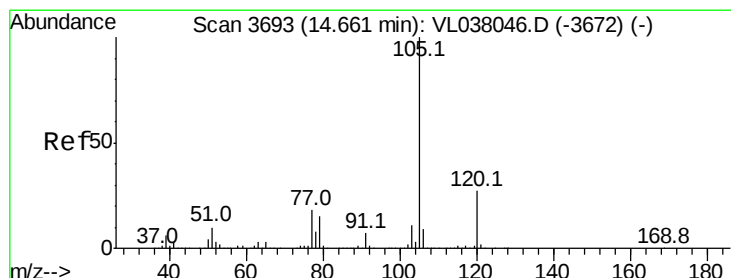
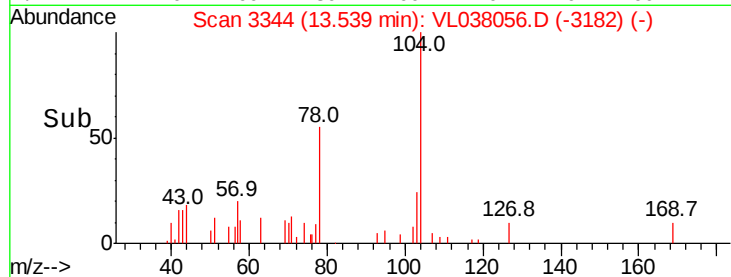
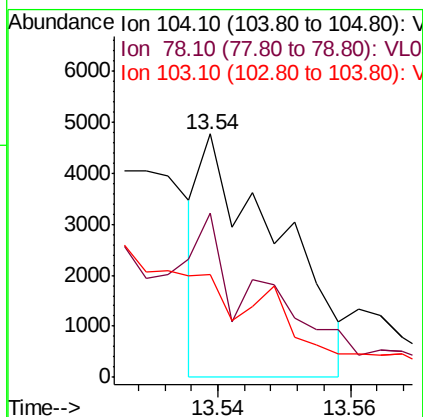
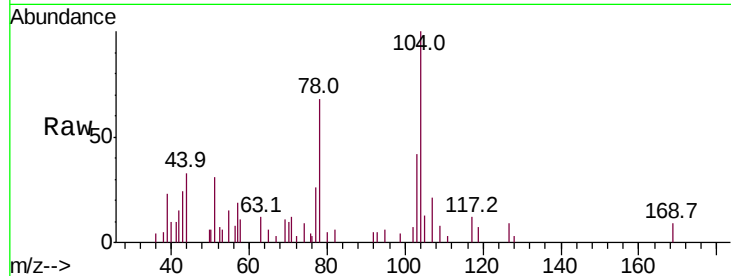
Tgt Ion: 91 Resp: 7856
Ion Ratio Lower Upper
91 100
106 112.9 24.2 72.6#





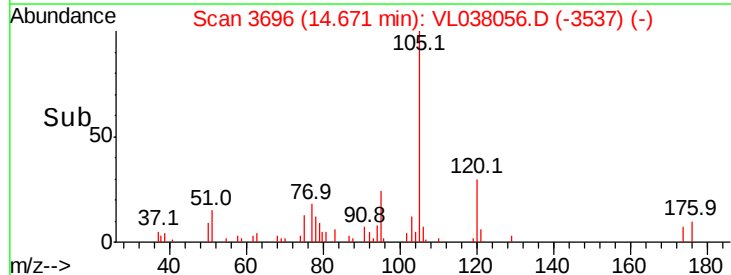
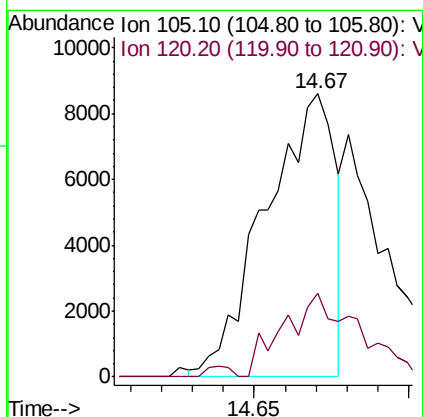
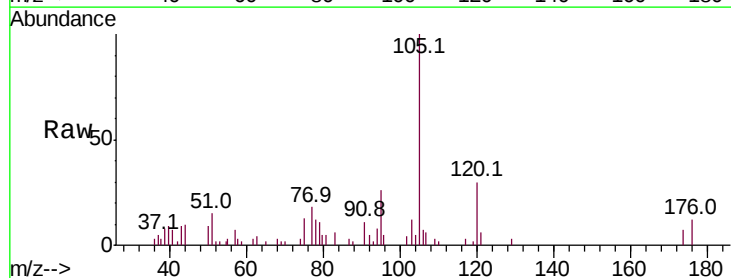
#61
Stvrene
Concen: 0.025 ppbv
RT: 13.54 min
Delta R.T. MSVOA_L
Lab File: ClientSampled :
E058-1100
Acq: 18 Nov 2021 16:40

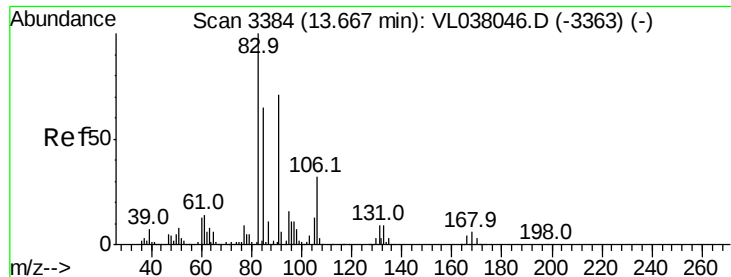
Tot Ion:104 Resp: 3838
Ion Ratio Lower Upper
104 100
78 165.7 39.8 59.6#
103 0.0 38.2 57.2#



#62
Isopropylbenzene
Concen: 0.034 ppbv
RT: 14.67 min Scan# 3696
Delta R.T. 0.01 min
Lab File: VL038056.D
Acq: 18 Nov 2021 16:40

Tgt Ion:105 Resp: 13432
Ion Ratio Lower Upper
105 100
120 36.8 21.8 32.6#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.042 ppbv

RT: 13.68

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

E058-1100

Acq: 18 Nov 2021 16:40

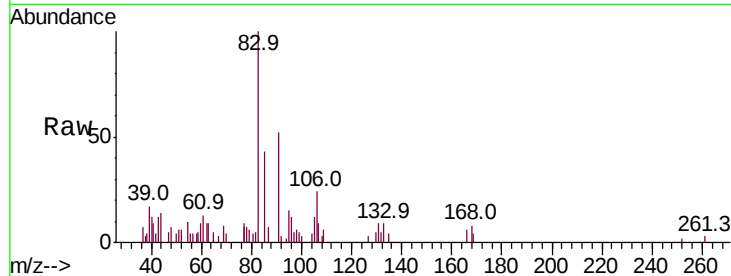
Tot Ion: 83 Resp: 8840

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

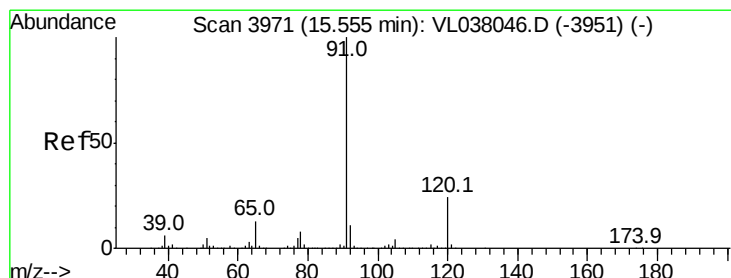
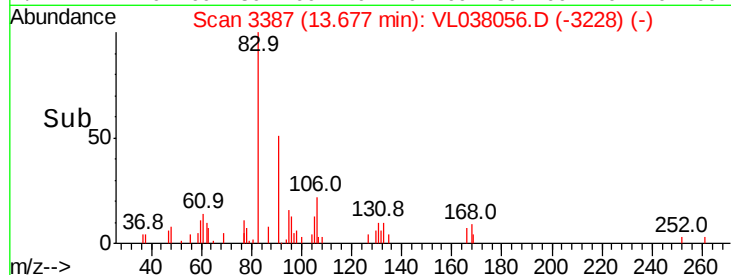
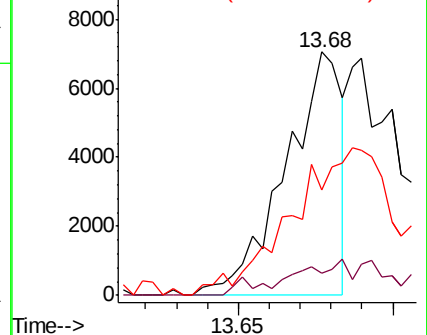
85 0.0 33.4 100.1#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.026 ppbv

RT: 15.57 min Scan# 3975

Delta R.T. 0.01 min

Lab File: VL038056.D

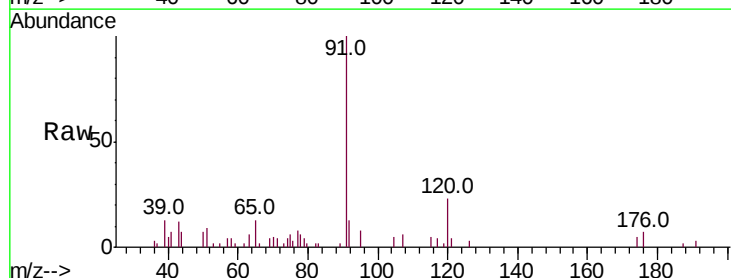
Acq: 18 Nov 2021 16:40

Tgt Ion:120 Resp: 2664

Ion Ratio Lower Upper

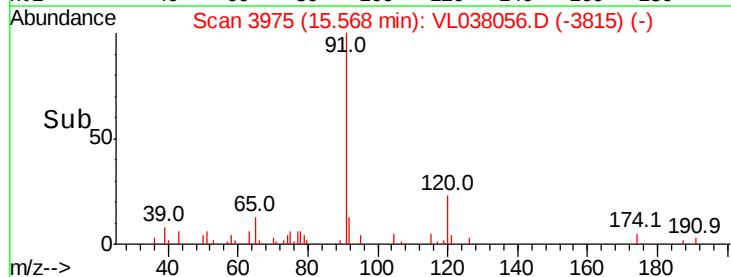
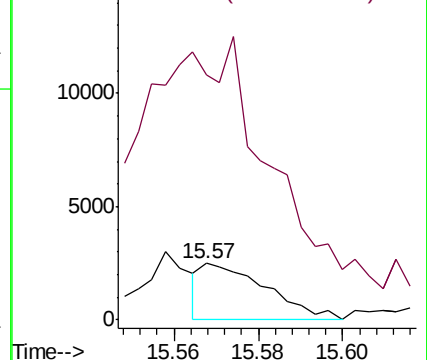
120 100

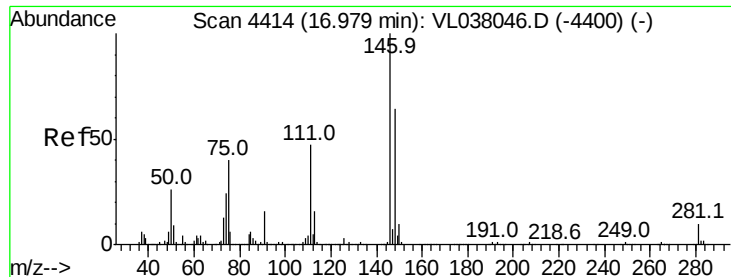
91 1243.4 371.7 557.5#



Abundance Ion 120.20 (119.90 to 120.90): VL0

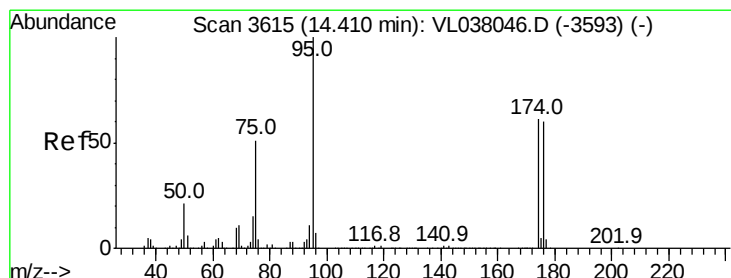
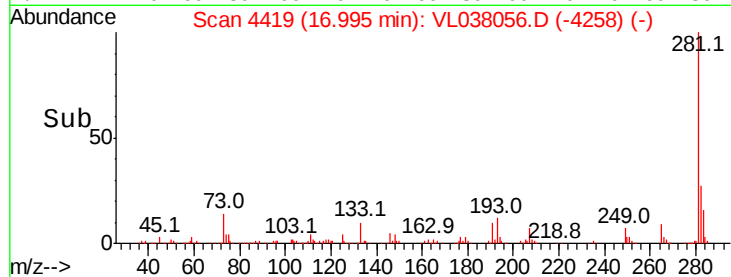
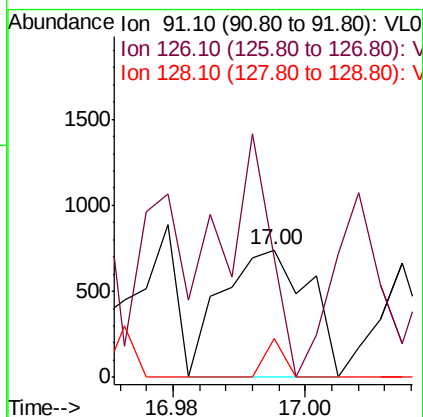
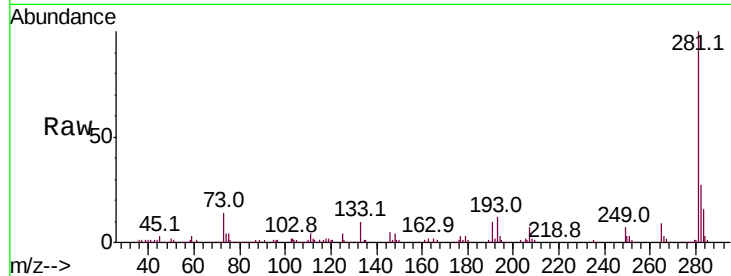
Ion 91.10 (90.80 to 91.80): VL0





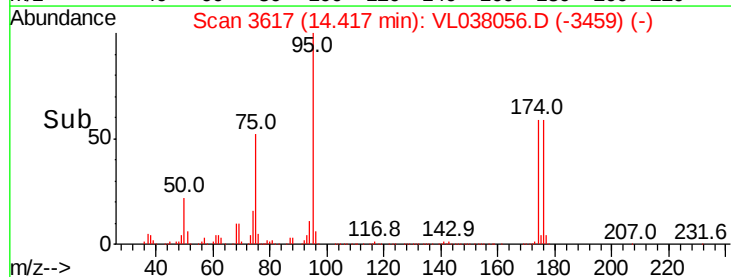
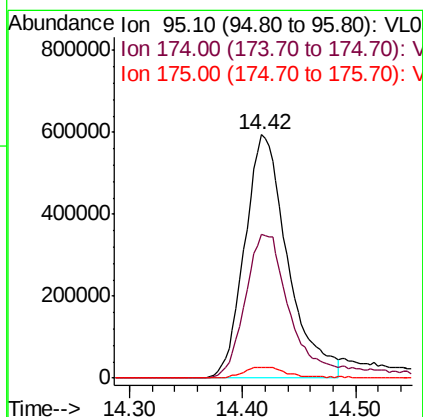
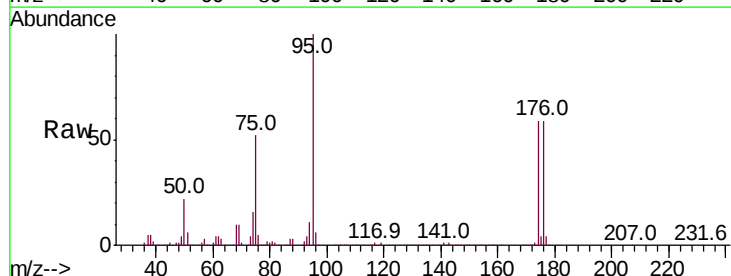
#66
Benzyl Chloride
Concen: 0.038 ppbv
RT: 17.00 min
Delta R.T. MSVOA.L
Lab File: ClientSampleId : E058-1100
Acq: 18 Nov 2021 16:40

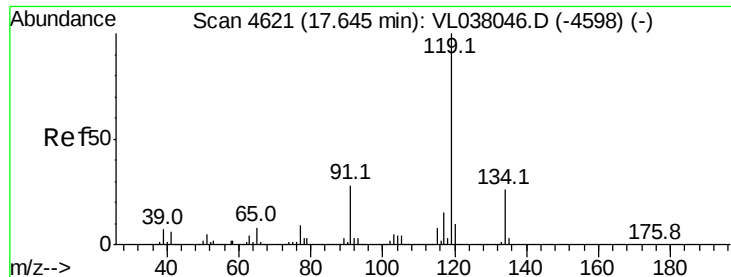
Tot Ion: 91 Resp: 677
Ion Ratio Lower Upper
91 100
126 417.4 15.5 23.3#
128 6.5 5.6 8.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.003 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.01 min
Lab File: VL038056.D
Acq: 18 Nov 2021 16:40

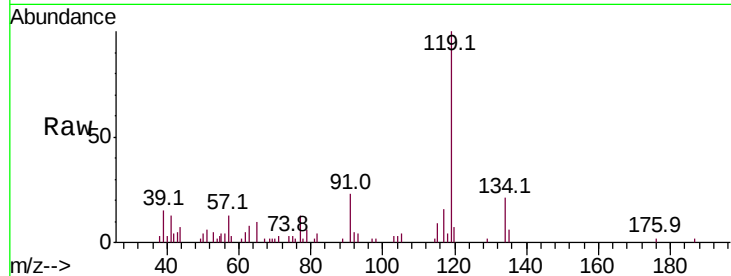
Tgt Ion: 95 Resp: 1572025
Ion Ratio Lower Upper
95 100
174 67.2 53.1 79.7
175 4.7 4.0 6.0



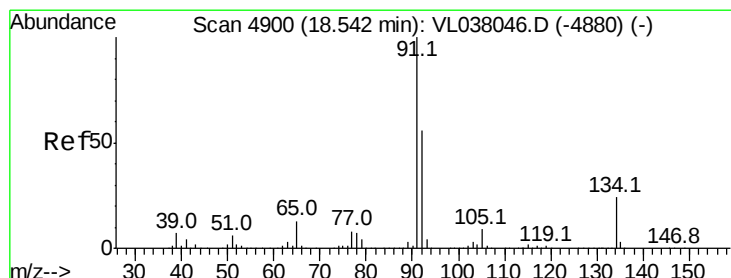
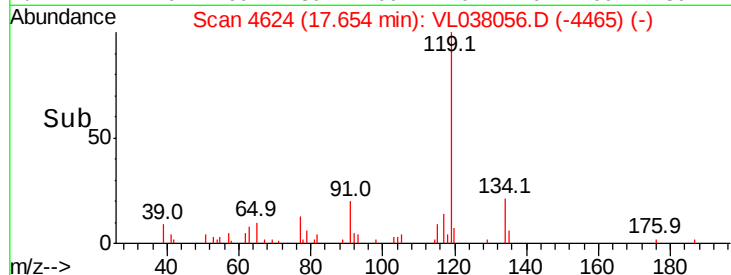
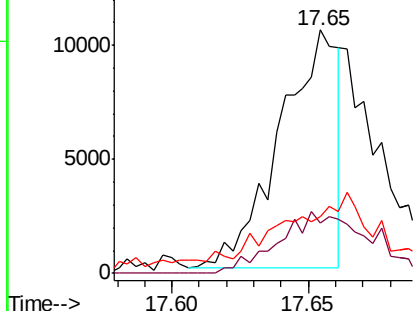


#69
p-Isopropyltoluene
Concen: 0.040 ppbv
RT: 17.65 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
E058-1100
Acq: 18 Nov 2021 16:40

Tot Ion	Ratio	Lower	Upper
119	100		
134	39.3	20.6	30.8#
91	68.6	22.2	33.4#

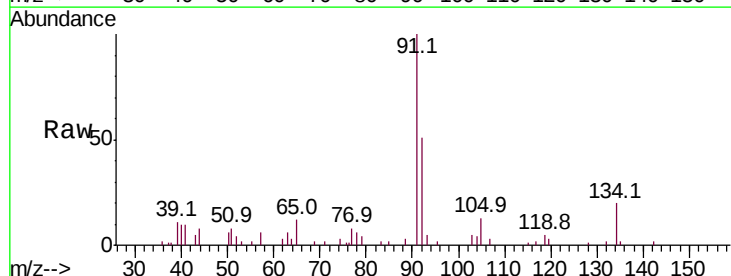


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

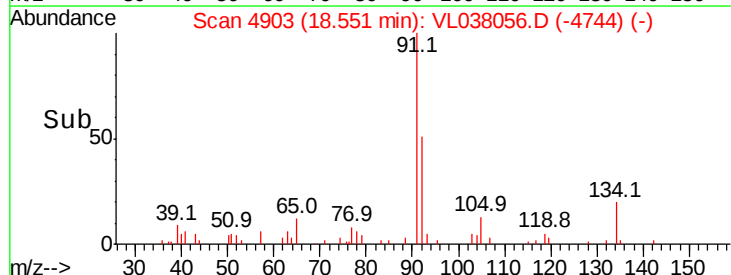
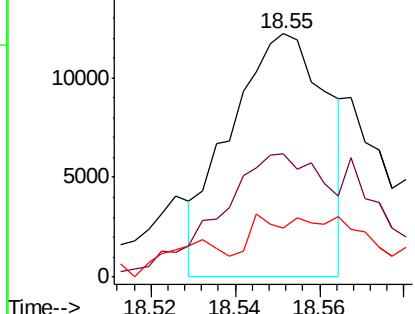


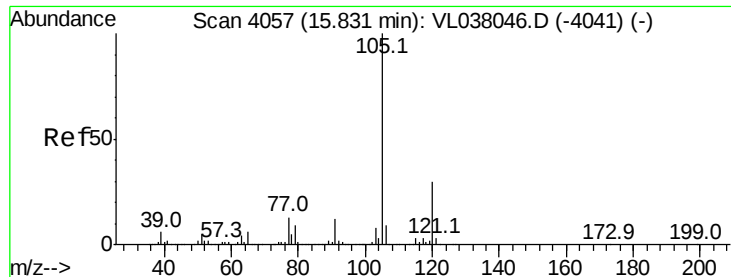
#70
n-Butylbenzene
Concen: 0.053 ppbv
RT: 18.55 min Scan# 4903
Delta R.T.: 0.01 min
Lab File: VL038056.D
Acq: 18 Nov 2021 16:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	90.6	44.1	66.1#
134	48.5	18.9	28.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V





#72

4-Ethyltoluene

Concen: 0.092 ppbv

RT: 15.84

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

E058-1100

Acq: 18 Nov 2021 16:40

Tot Ion:105 Resp: 29891

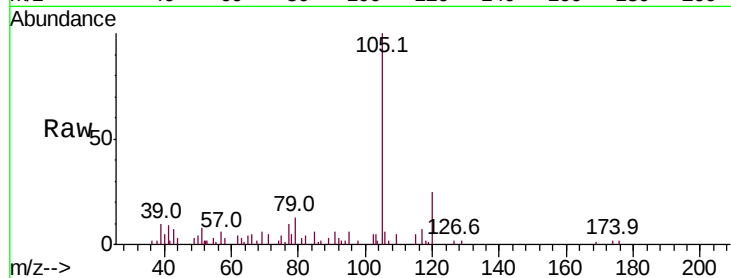
Ion Ratio Lower Upper

105 100

120 38.4 25.1 37.7#

91 20.4 9.7 14.5#

77 18.3 10.6 16.0#

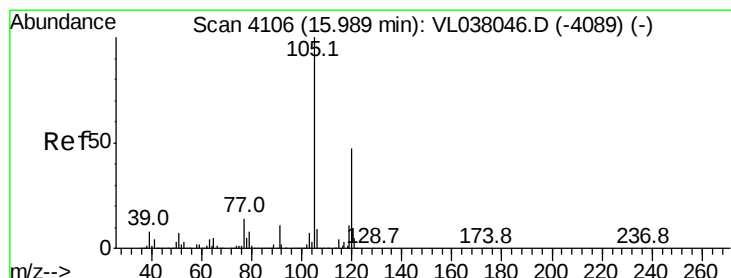
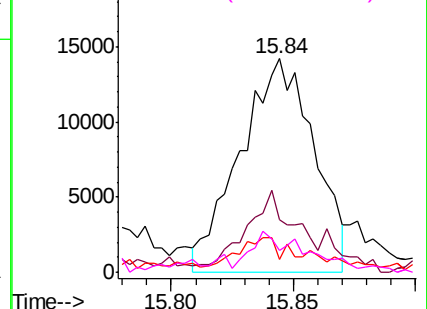
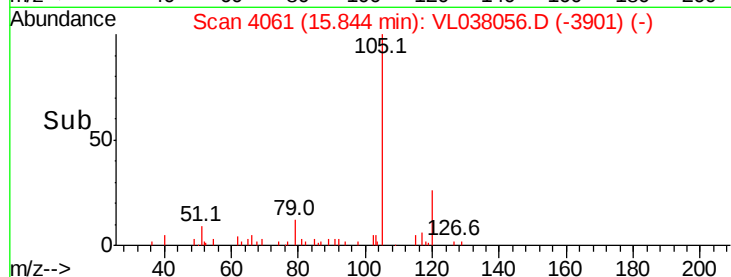


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.029 ppbv

RT: 16.00 min Scan# 4111

Delta R.T. 0.02 min

Lab File: VL038056.D

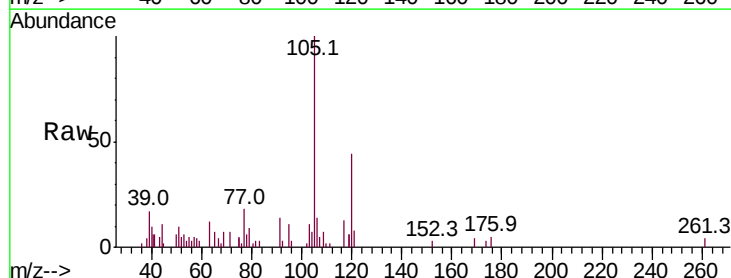
Acq: 18 Nov 2021 16:40

Tgt Ion:105 Resp: 8558

Ion Ratio Lower Upper

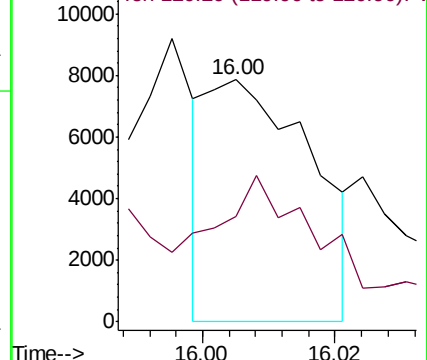
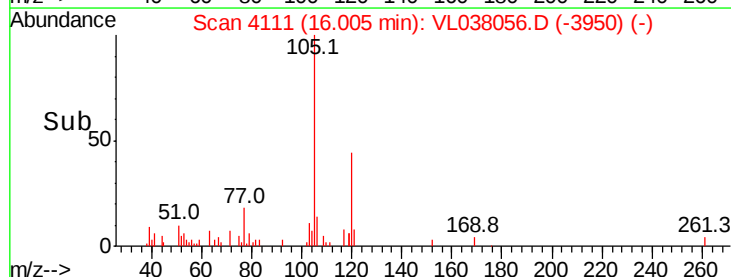
105 100

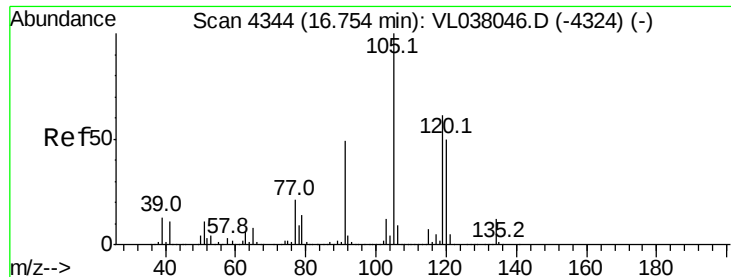
120 16.2 37.8 56.6#



Abundance Ion 105.10 (104.80 to 105.80): V

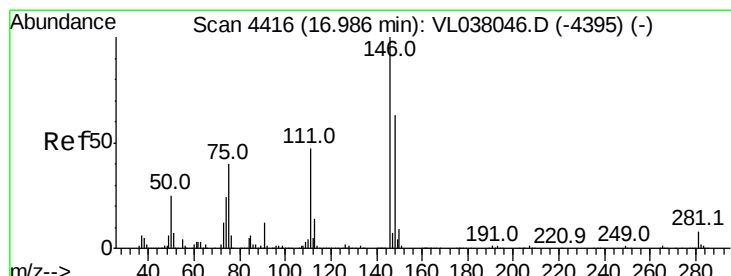
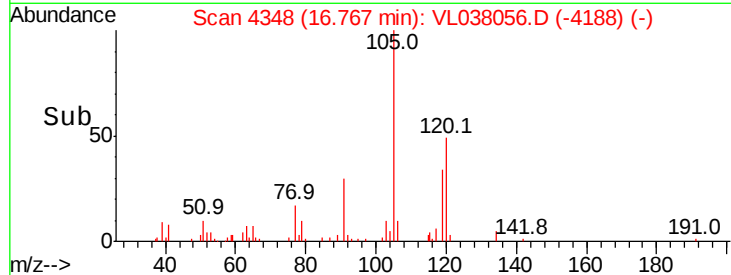
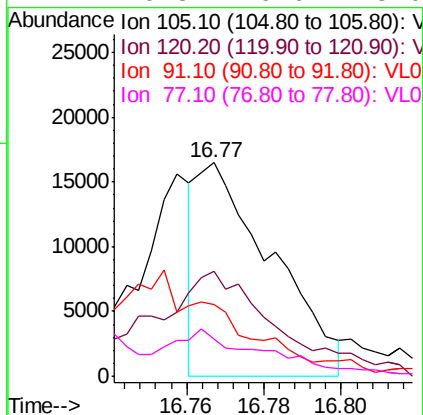
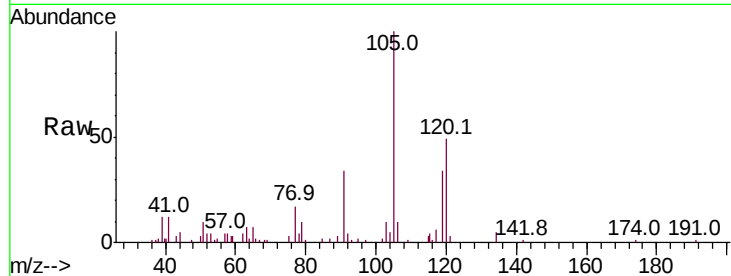
Ion 120.20 (119.90 to 120.90): V





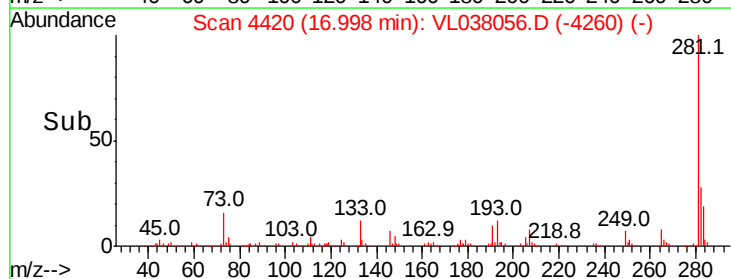
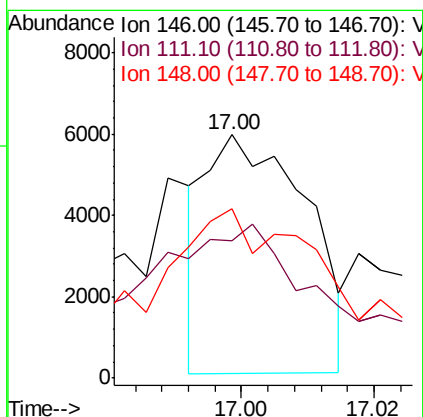
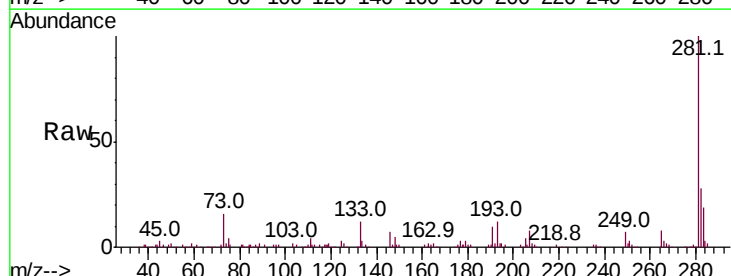
#74
 1,2,4-Trimethylbenzene
 Concen: 0.072 ppbv
 RT: 16.77 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId : E058-1100
 Acq: 18 Nov 2021 16:40

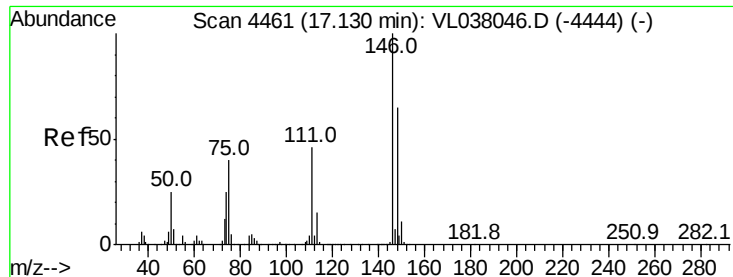
Tot Ion:	105	Resp:	22019
Ion	Ratio	Lower	Upper
105	100		
120	45.8	40.1	60.1
91	31.7	39.8	59.8#
77	16.3	16.6	25.0#



#75
 1,3-Dichlorobenzene
 Concen: 0.036 ppbv
 RT: 17.00 min Scan# 4420
 Delta R.T. 0.01 min
 Lab File: VL038056.D
 Acq: 18 Nov 2021 16:40

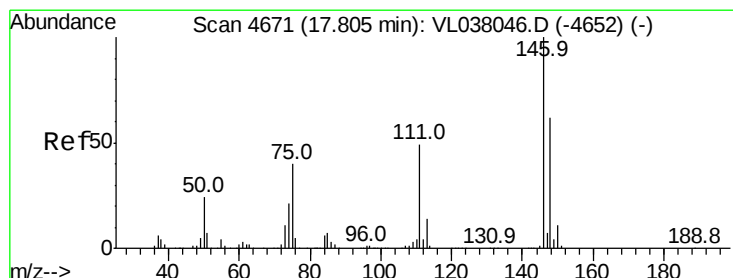
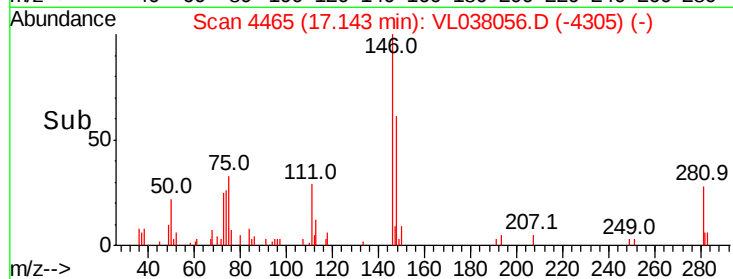
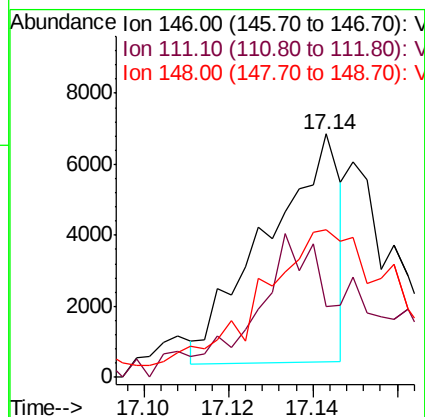
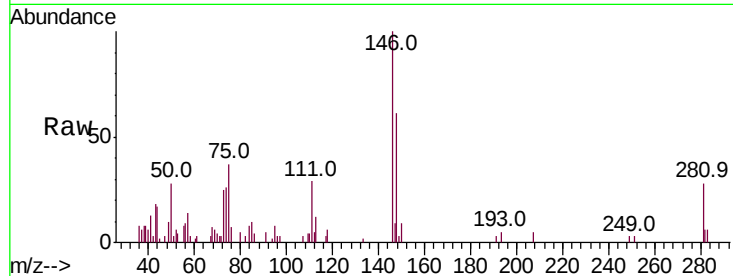
Tgt Ion:	146	Resp:	6144
Ion	Ratio	Lower	Upper
146	100		
111	166.0	23.5	70.6#
148	168.7	32.1	96.3#





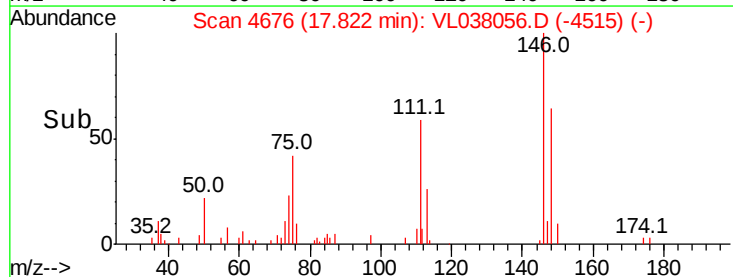
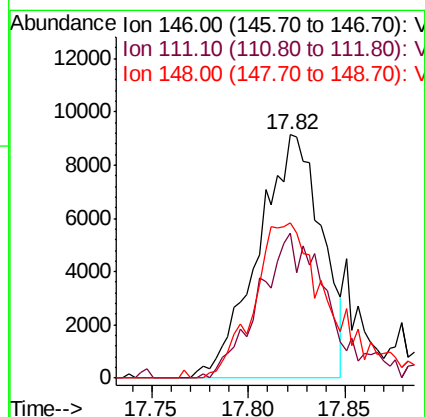
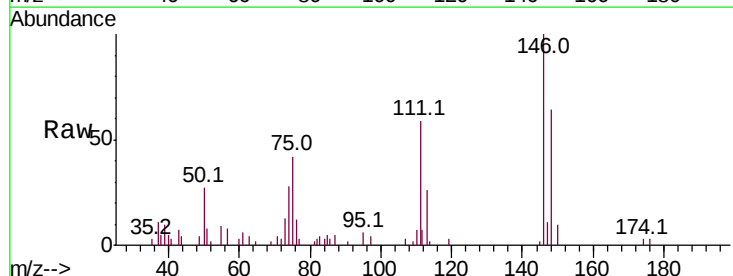
#76
 1,4-Dichlorobenzene
 Concen: 0.046 ppbv
 RT: 17.14 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 E058-1100
 Acq: 18 Nov 2021 16:40

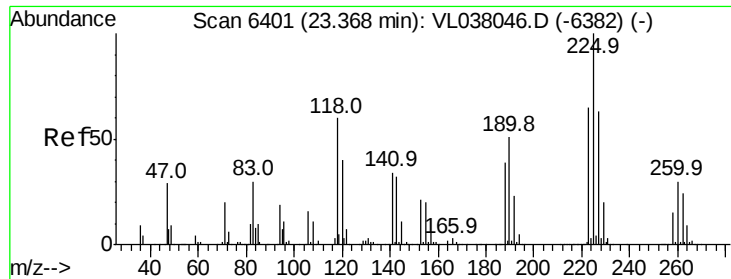
Tot Ion:146 Resp: 7798
 Ion Ratio Lower Upper
 146 100
 111 111.0 23.8 71.5#
 148 150.1 33.2 99.6#



#77
 1,2-Dichlorobenzene
 Concen: 0.128 ppbv
 RT: 17.82 min Scan# 4676
 Delta R.T. 0.02 min
 Lab File: VL038056.D
 Acq: 18 Nov 2021 16:40

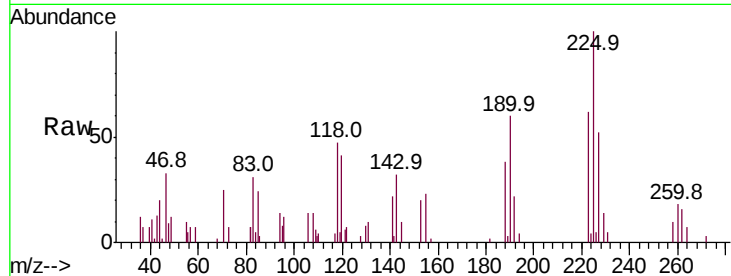
Tgt Ion:146 Resp: 20872
 Ion Ratio Lower Upper
 146 100
 111 67.0 24.8 74.4
 148 77.9 32.3 96.9



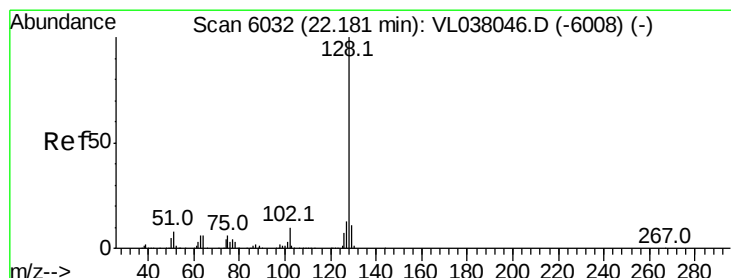
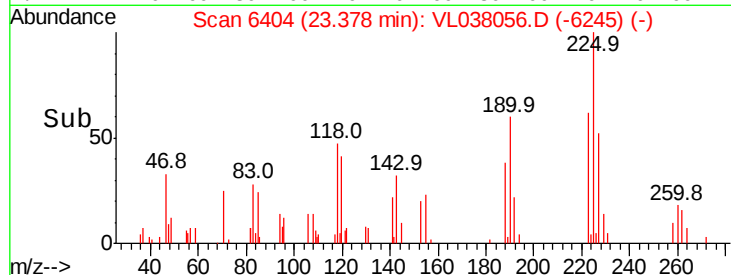
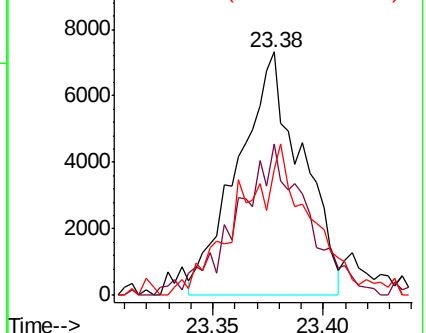


#78
Hexachloro-1,3-Butadiene
Concen: 0.144 ppbv
RT: 23.38 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId : E058-1100
Acq: 18 Nov 2021 16:40

Tot Ion:225 Resp: 14653
Ion Ratio Lower Upper
225 100
223 68.9 52.3 78.5
227 73.3 52.4 78.6

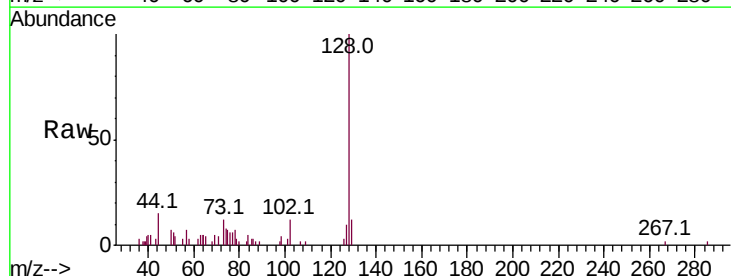


Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V

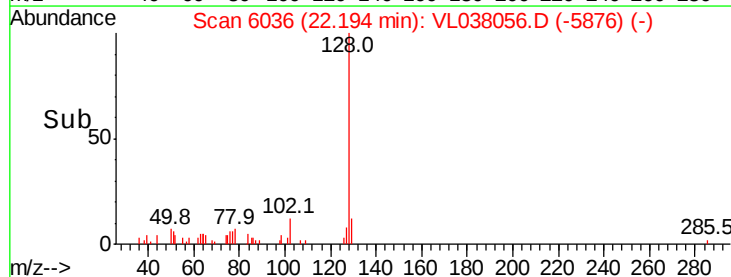
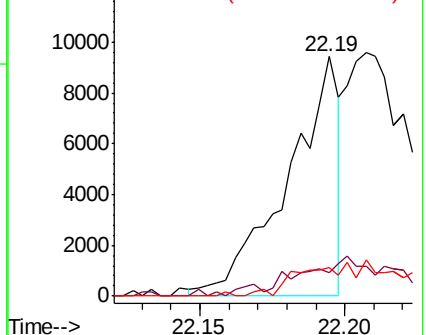


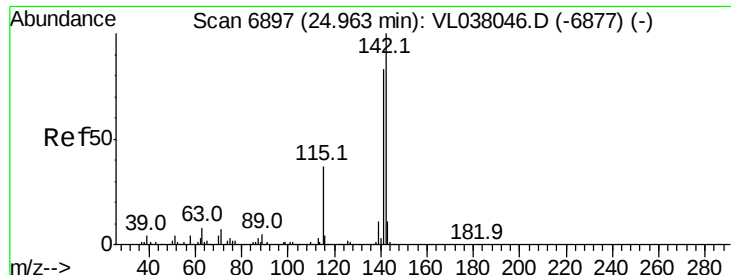
#79
Naphthalene
Concen: 0.071 ppbv
RT: 22.19 min Scan# 6036
Delta R.T. 0.01 min
Lab File: VL038056.D
Acq: 18 Nov 2021 16:40

Tgt Ion:128 Resp: 11485
Ion Ratio Lower Upper
128 100
127 9.8 10.4 15.6#
129 12.1 8.9 13.3



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.106 ppbv

RT: 24.98

Delta R.T: MSVOA_L

Lab File: ClientSampleId:

E058-1100

Acq: 18 Nov 2021 18:48

Tot Ion: 142 Resp: 3656

Ion Ratio Lower Upper

142 100

141 73.0 67.3 100.9

115 63.6 28.9 43.3#

