

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120721\
 Data File : VL038157.D
 Acq On : 7 Dec 2021 19:25
 Operator : SY/AP
 Sample : M4897-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Quant Time: Dec 08 02:03:10 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	5.65	49	831130	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2210247	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	2041175	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1743122	11.84	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	118.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	27353	0.199	ppbv	96
3) Chlorodifluoromethane	2.96	51	276805	1.586	ppbv #	66
4) Chloromethane	3.14	50	20857	0.351	ppbv	90
7) Chloroethane	3.55	64	6154	0.297	ppbv #	85
9) Propene	3.02	41	93394	1.453	ppbv	90
10) Heptane	8.10	43	178497	1.124	ppbv	96
11) Trichlorofluoromethane	3.94	101	28842	0.221	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.48	101	5414	0.059	ppbv #	74
13) Ethanol	3.60	45	462682	74.483	ppbv	88
15) Acetone	3.84	43	1753195	24.330	ppbv #	88
16) 1,3-Butadiene	3.30	39	91098	1.620	ppbv #	21
17) tert-Butyl alcohol	4.29	59	129958	1.487	ppbv	97
19) Isopropyl Alcohol	3.96	45	451033	8.663	ppbv #	94
20) Methylene Chloride	4.34	84	114452	2.836	ppbv	96
21) Allyl Chloride	4.33	41	5421	0.081	ppbv #	66
23) Vinyl Acetate	5.06	43	1421642	13.628	ppbv	97
25) Ethyl Acetate	5.68	43	1143144	4.773	ppbv #	80
26) Hexane	5.68	57	1524706	13.208	ppbv #	36
27) Carbon Disulfide	4.54	76	17046	0.165	ppbv #	77
28) Methyl tert-Butyl Ether	5.03	73	36281	0.370	ppbv #	82
29) Chloroform	5.74	83	101157	0.595	ppbv	94
30) Cyclohexane	7.11	84	8246	0.079	ppbv #	1
34) 2-Butanone	5.23	43	191794	2.152	ppbv	90
35) Carbon Tetrachloride	7.00	117	5282	0.034	ppbv #	80
36) Benzene	6.87	78	45221	0.205	ppbv #	93
37) 1,2-Dichloroethane	6.29	62	4335	0.041	ppbv	97
39) 1,2-Dichloropropane	7.16	63	594094	7.024	ppbv #	27
40) 1,4-Dioxane	7.82	88	943	0.043	ppbv #	1
41) Tetrahydrofuran	6.04	42	17595	0.318	ppbv #	1
43) Methyl Methacrylate	7.97	69	3405	0.045	ppbv #	1
50) 4-Methyl-2-Pentanone	8.73	43	14509	0.107	ppbv #	38
51) 2-Hexanone	10.11	43	493474	7.750	ppbv #	98
52) Tetrachloroethene	11.20	164	18479	0.227	ppbv	88
53) Toluene	9.79	91	200594	0.791	ppbv	99
58) Ethyl Benzene	12.69	91	65585	0.194	ppbv #	87
59) m/p-Xylene	12.97	91	60898	0.214	ppbv #	29
60) o-Xylene	13.67	91	83459	0.317	ppbv	91
61) Styrene	13.51	104	102121	0.723	ppbv #	89
62) Isopropylbenzene	14.65	105	13722	0.037	ppbv #	67
66) Benzyl Chloride	16.97	91	985	0.059	ppbv #	63
69) p-Isopropyltoluene	17.64	119	102622	0.286	ppbv	95

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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

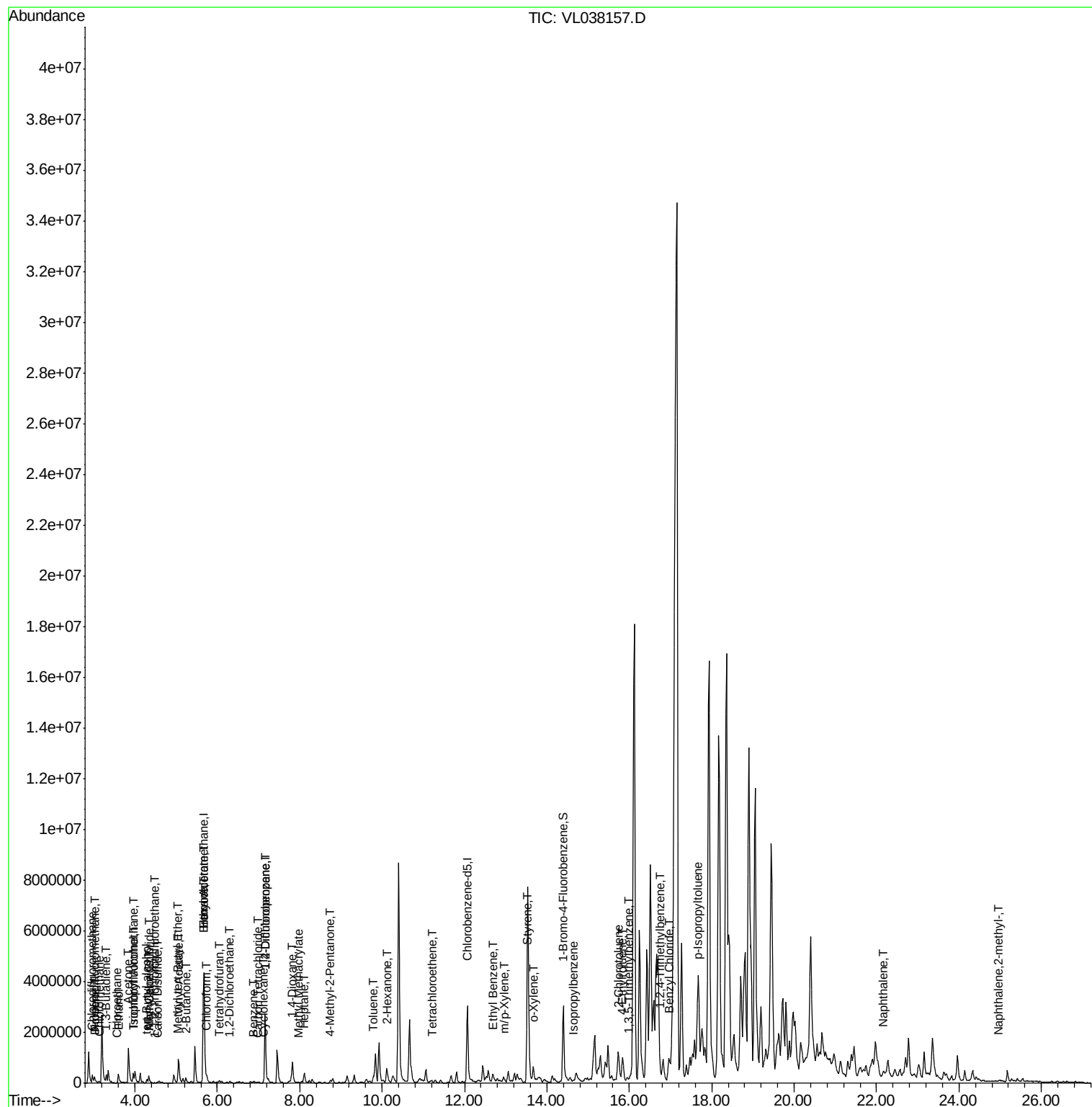
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	15.74	91	10395	0.038	ppbv	98
72) 4-Ethyltoluene	15.82	105	33342	0.109	ppbv #	71
73) 1,3,5-Trimethylbenzene	15.98	105	32214	0.115	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.74	105	169086	0.588	ppbv #	64
79) Naphthalene	22.16	128	12117	0.080	ppbv #	75
80) Naphthalene,2-methyl-	24.96	142	2175	0.067	ppbv #	8

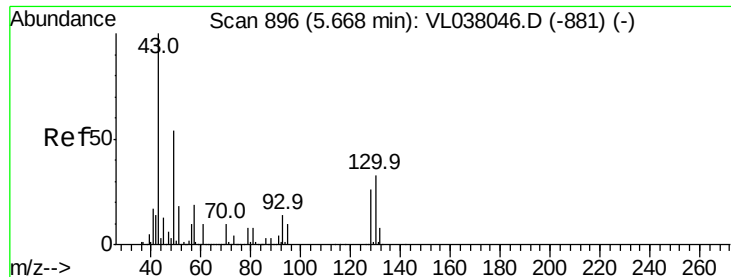
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-1

Acq: 7 Dec 2021 19:25

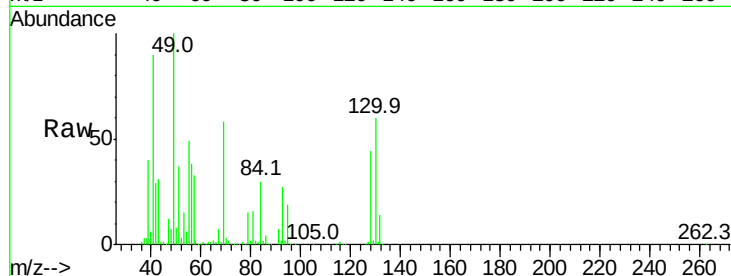
Tot Ion: 49 Resp: 831130

Ion Ratio Lower Upper

49 100

128 46.6 26.5 79.5

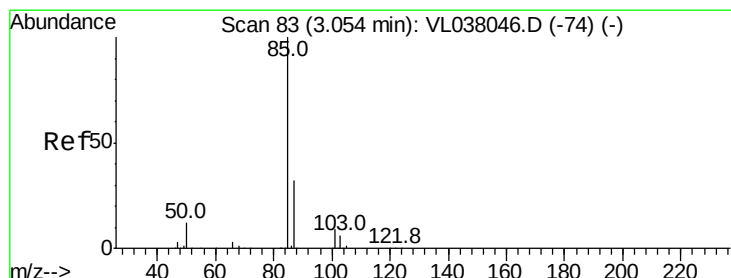
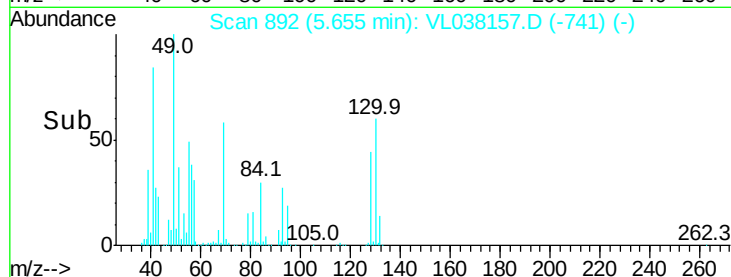
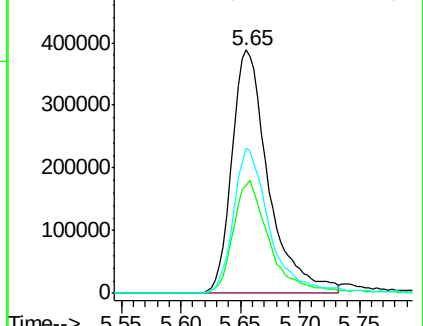
130 59.6 32.5 97.4



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: 0.199 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL038157.D

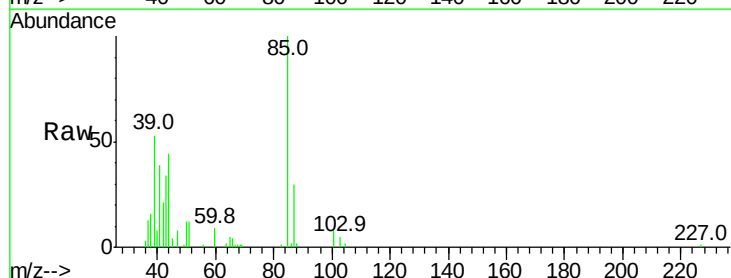
Acq: 7 Dec 2021 19:25

Tgt Ion: 85 Resp: 27353

Ion Ratio Lower Upper

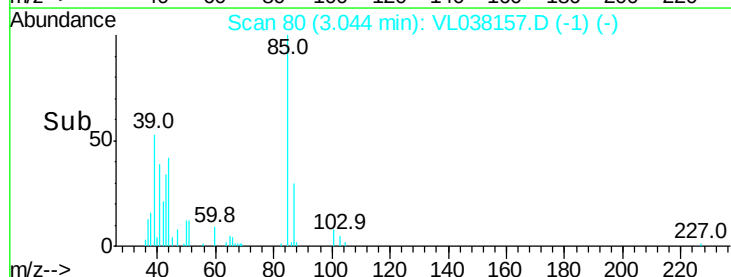
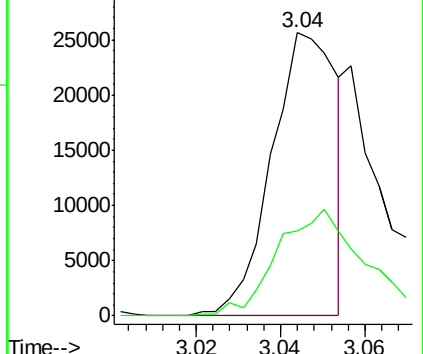
85 100

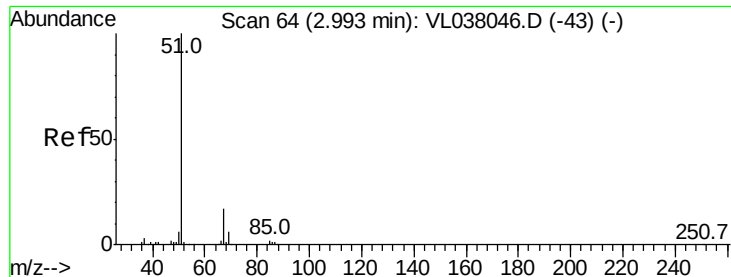
87 30.0 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.586 ppbv

RT: 2.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

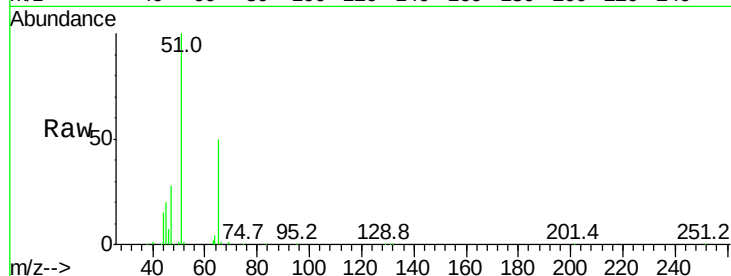
Acq: 7 Dec 2021 19:25 SV-1

Tot Ion: 51 Resp: 276805

Ion Ratio Lower Upper

51 100

67 2.3 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.96

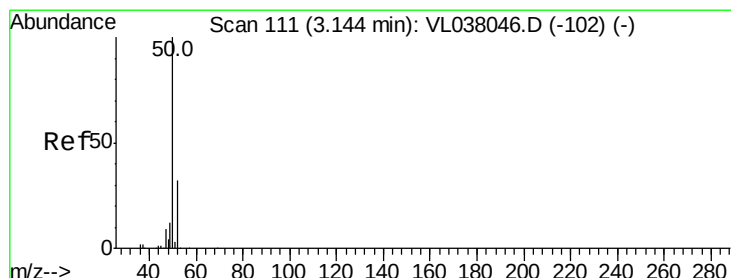
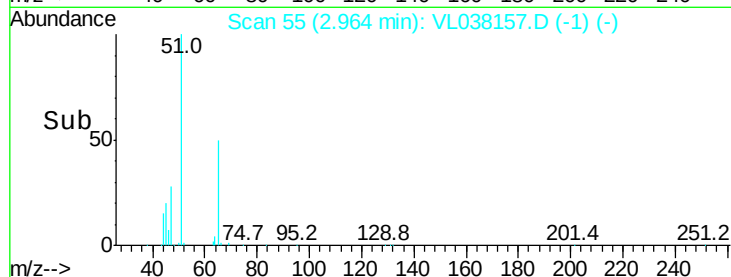
150000

100000

50000

0

Time--> 2.80 2.90 3.00 3.10



#4

Chloromethane

Concen: 0.351 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL038157.D

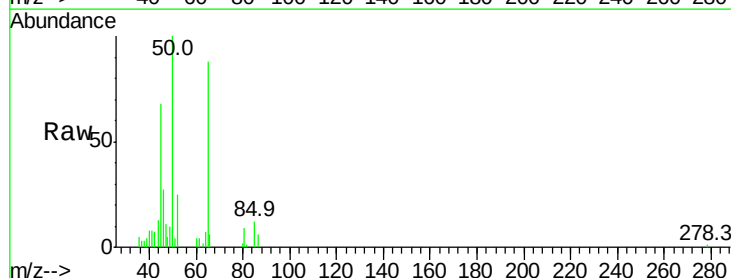
Acq: 7 Dec 2021 19:25

Tgt Ion: 50 Resp: 20857

Ion Ratio Lower Upper

50 100

52 26.4 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.14

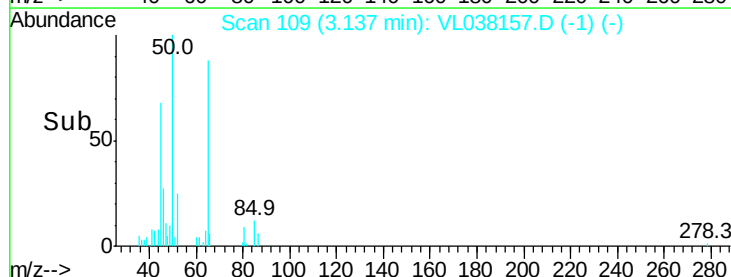
15000

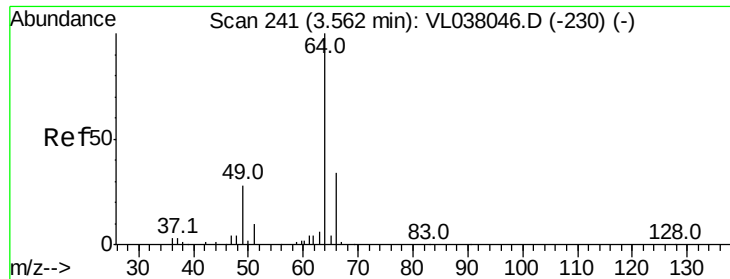
10000

5000

0

Time--> 3.10 3.15





#7

Chloroethane

Concen: 0.297 ppbv

RT: 3.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

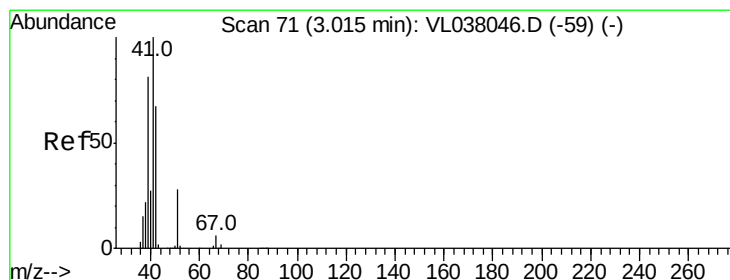
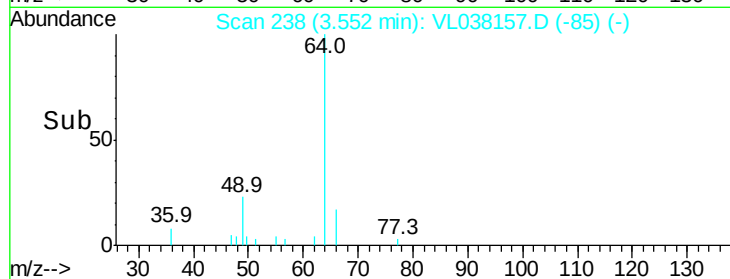
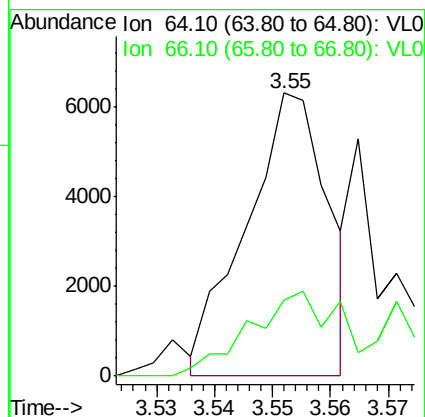
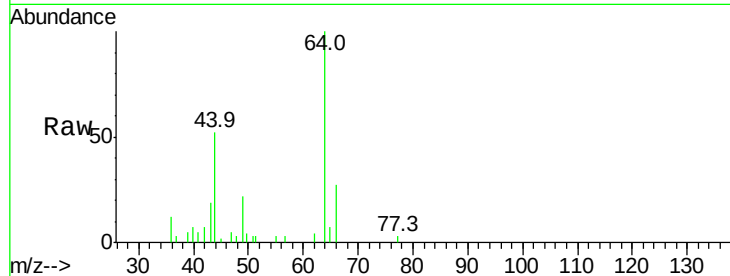
Acq: 7 Dec 2021 19:25 SV-1

Tot Ion: 64 Resp: 6154

Ion Ratio Lower Upper

64 100

66 25.1 27.2 40.8#



#9

Propene

Concen: 1.453 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL038157.D

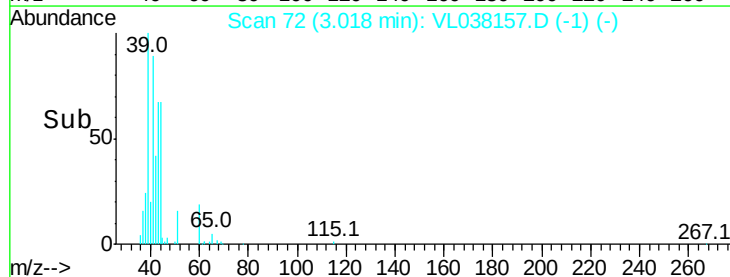
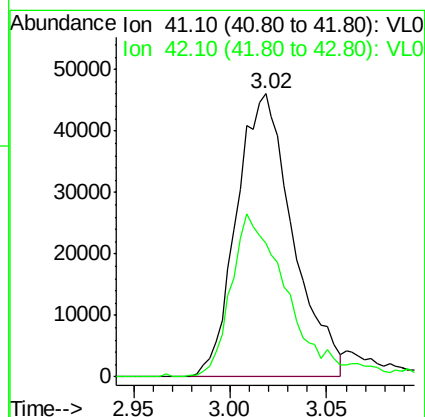
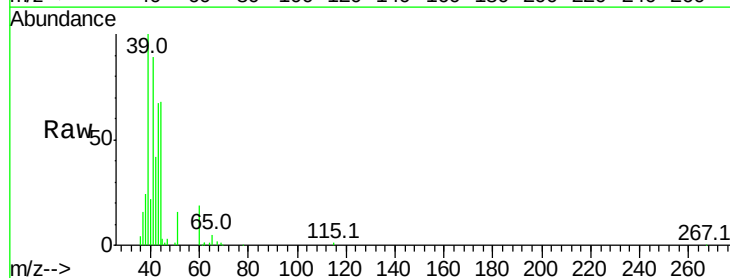
Acq: 7 Dec 2021 19:25

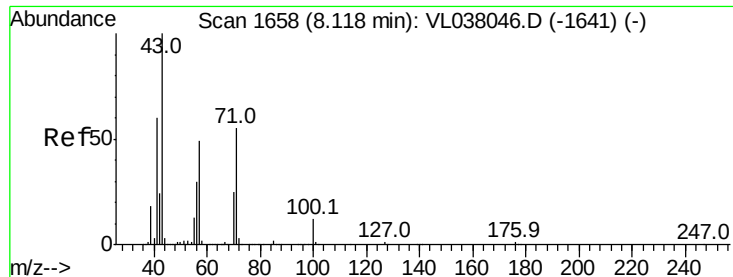
Tgt Ion: 41 Resp: 93394

Ion Ratio Lower Upper

41 100

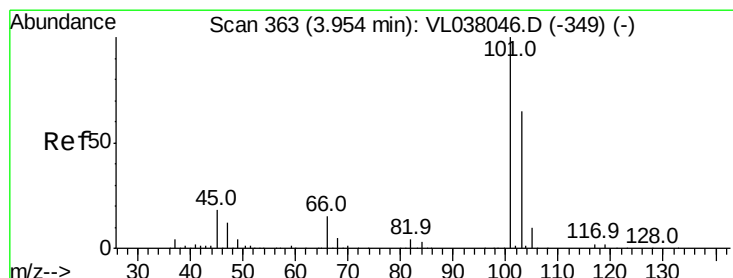
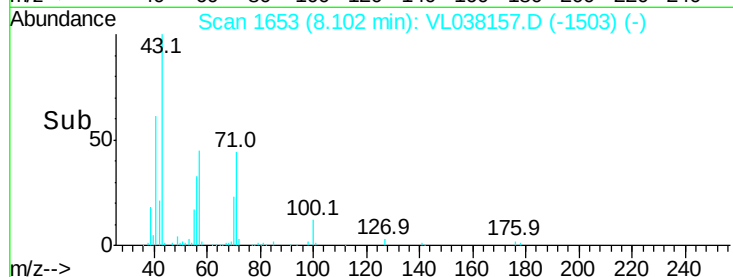
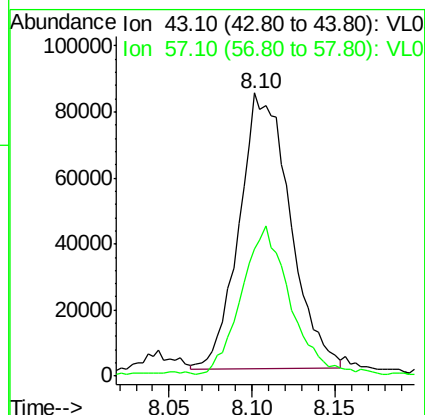
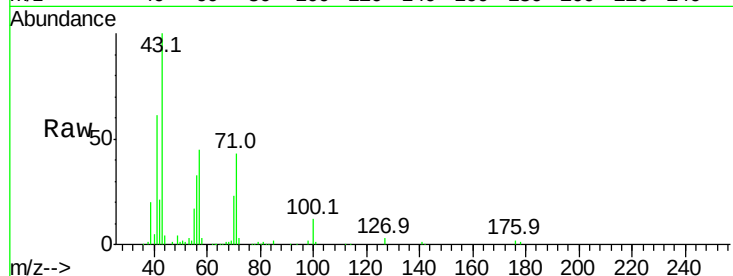
42 59.2 53.8 80.8





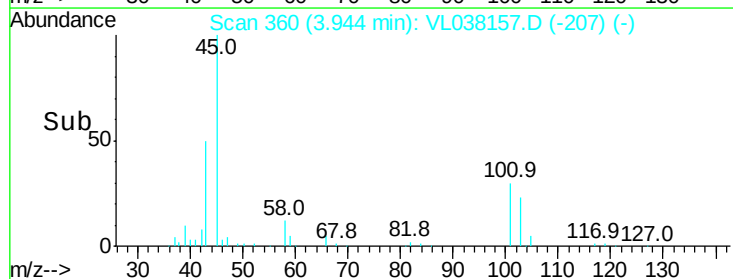
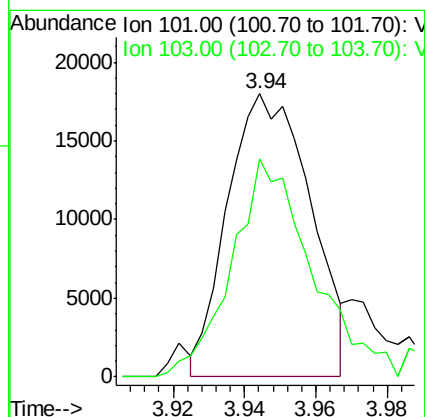
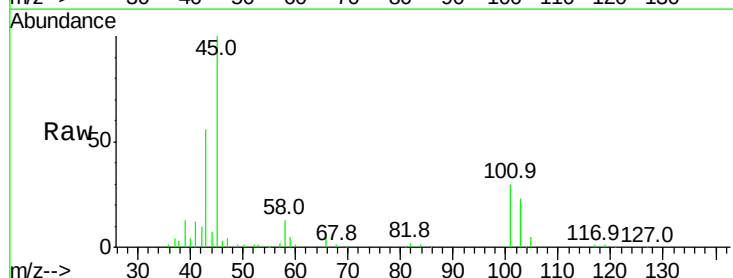
#10
 Heptane
 Concen: 1.124 ppbv
 RT: 8.10
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Dec 2021 19:25

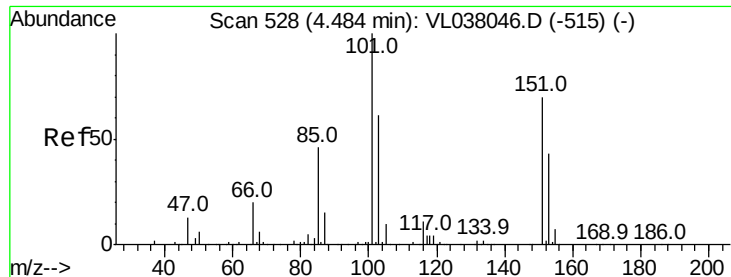
Tot Ion: 43 Resp: 178497
 Ion Ratio Lower Upper
 43 100
 57 52.9 40.4 60.6



#11
 Trichlorofluoromethane
 Concen: 0.221 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL038157.D
 Acq: 7 Dec 2021 19:25

Tgt Ion:101 Resp: 28842
 Ion Ratio Lower Upper
 101 100
 103 74.9 51.8 77.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.059 ppbv

RT: 4.48 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SV-1

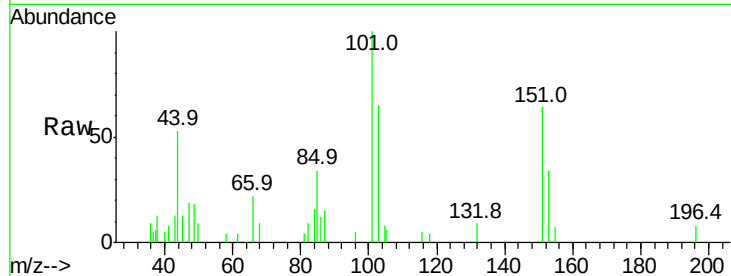
Acq: 7 Dec 2021 19:25

Tot Ion:101 Resp: 5414

Ion Ratio Lower Upper

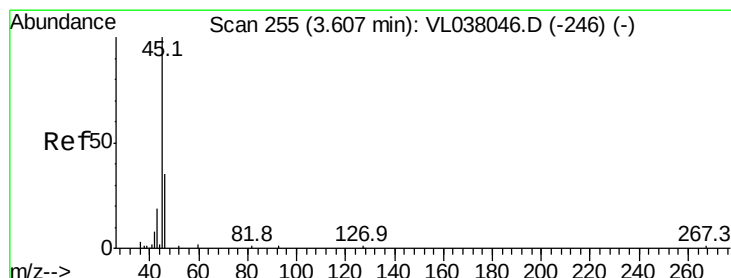
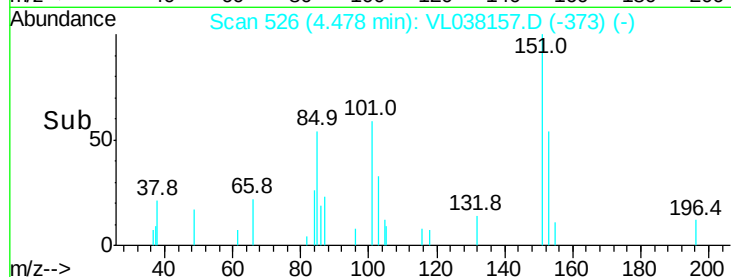
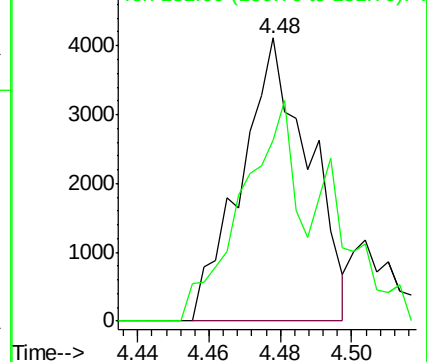
101 100

151 95.8 59.0 88.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 74.483 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL038157.D

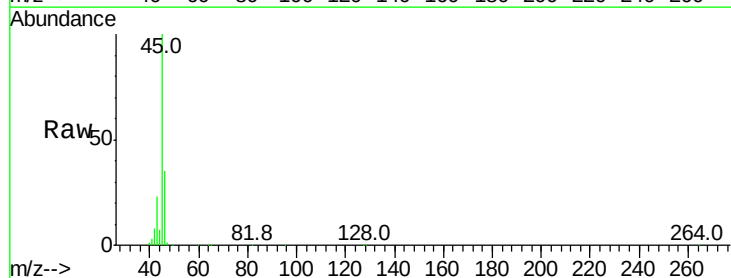
Acq: 7 Dec 2021 19:25

Tgt Ion: 45 Resp: 462682

Ion Ratio Lower Upper

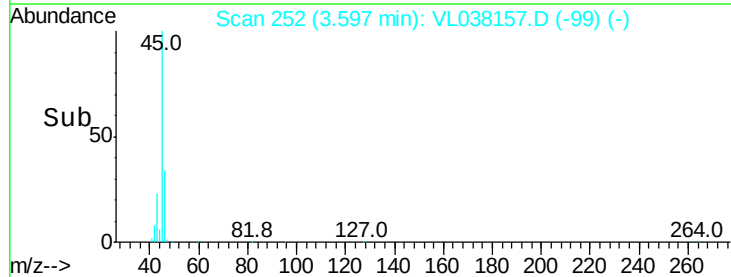
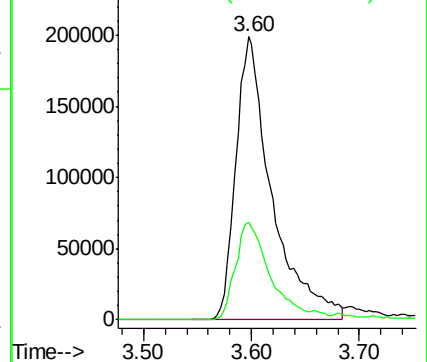
45 100

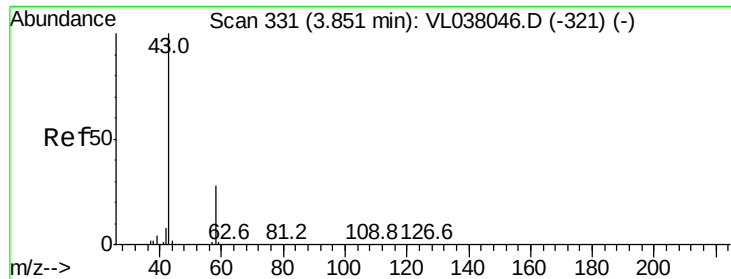
46 36.2 17.6 70.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 24.330 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

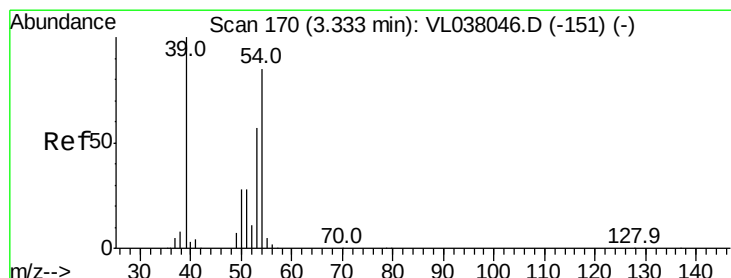
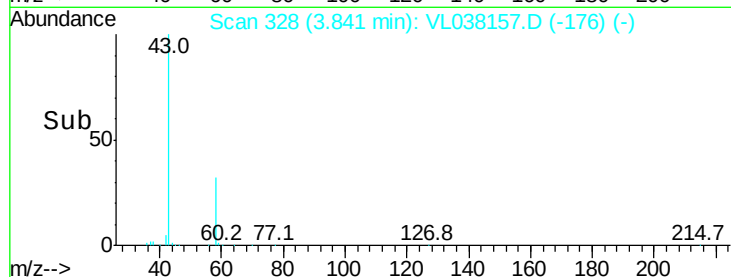
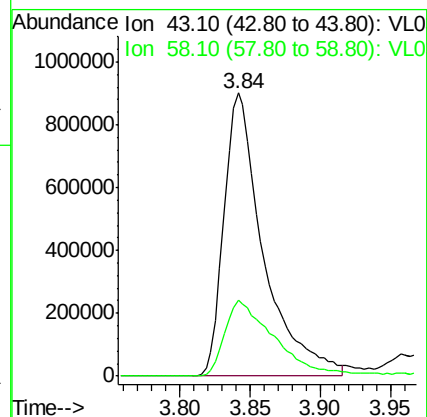
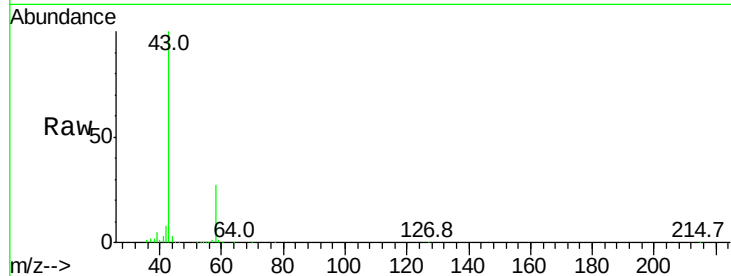
Acq: 7 Dec 2021 19:25 SV-1

Tot Ion: 43 Resp: 1753195

Ion Ratio Lower Upper

43 100

58 34.3 22.4 33.6#



#16

1,3-Butadiene

Concen: 1.620 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.03 min

Lab File: VL038157.D

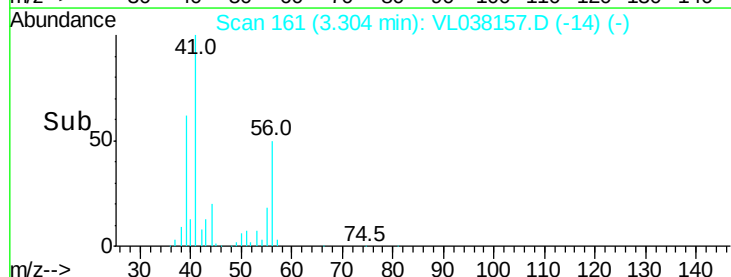
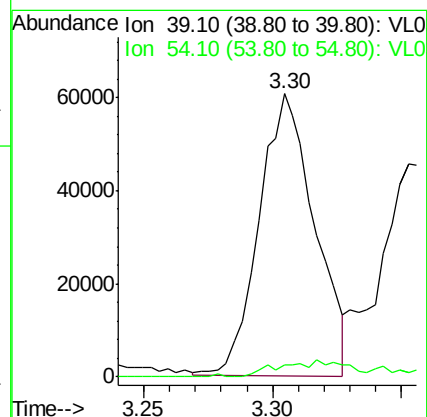
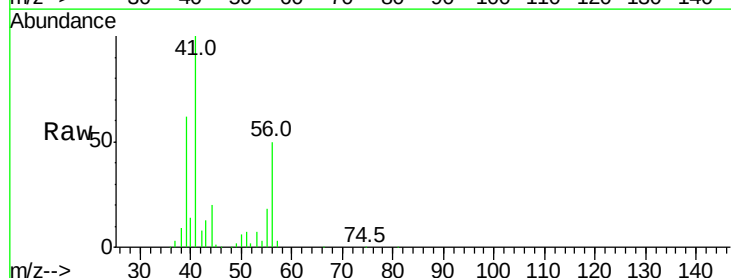
Acq: 7 Dec 2021 19:25

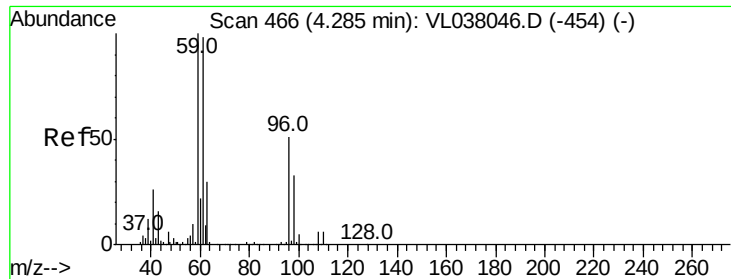
Tgt Ion: 39 Resp: 91098

Ion Ratio Lower Upper

39 100

54 10.4 64.4 96.6#





#17

tert-Butyl alcohol

Concen: 1.487 ppbv

RT: 4.29 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

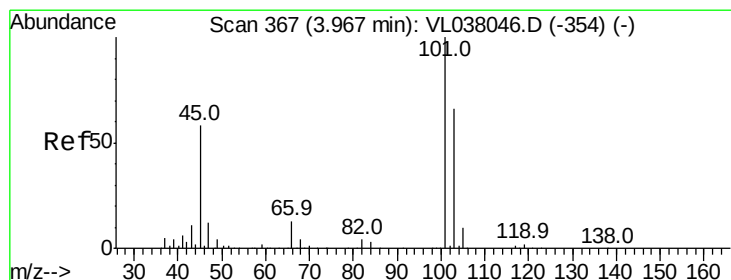
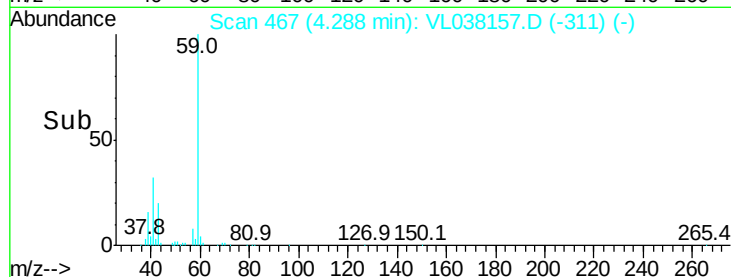
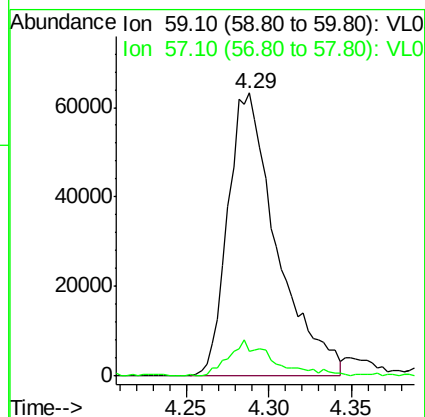
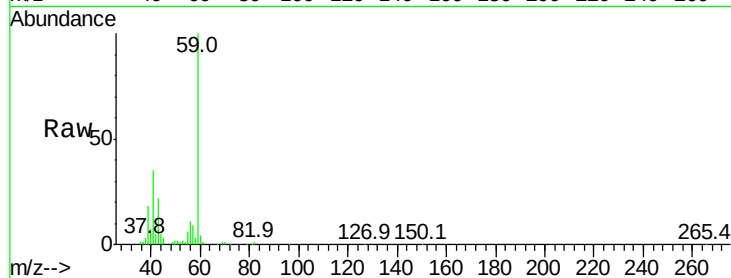
Acq: 7 Dec 2021 19:25 SV-1

Tot Ion: 59 Resp: 129958

Ion Ratio Lower Upper

59 100

57 11.9 8.6 13.0



#19

Isopropyl Alcohol

Concen: 8.663 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.01 min

Lab File: VL038157.D

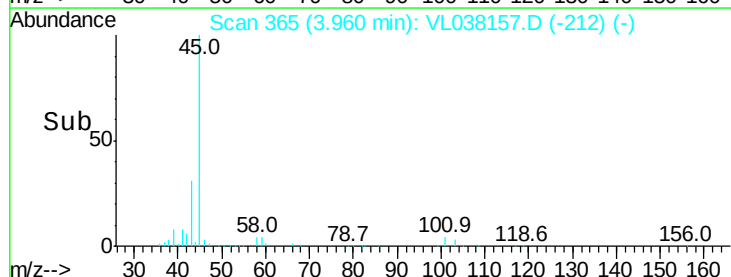
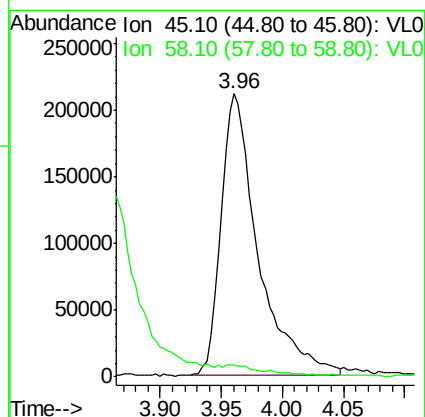
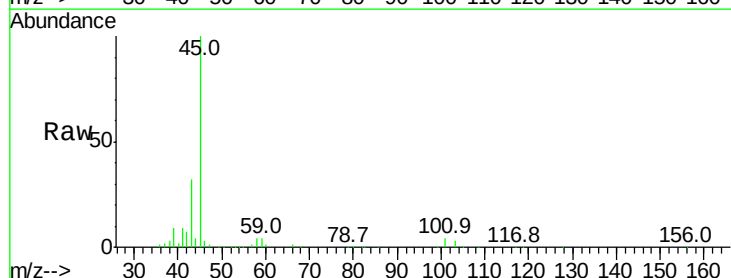
Acq: 7 Dec 2021 19:25

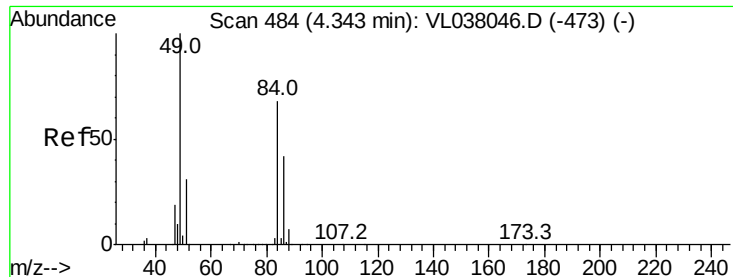
Tgt Ion: 45 Resp: 451033

Ion Ratio Lower Upper

45 100

58 4.0 1.4 2.0#





#20

Methylene Chloride

Concen: 2.836 ppbv

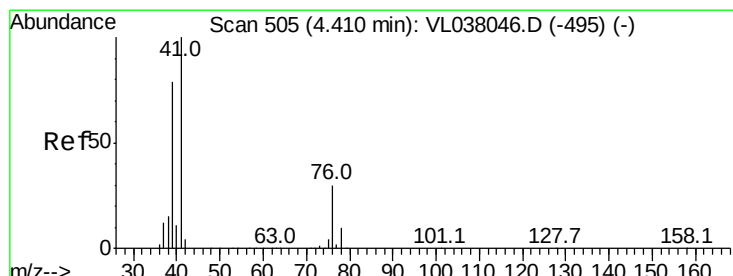
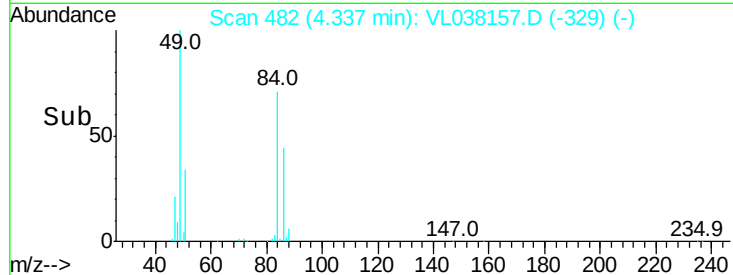
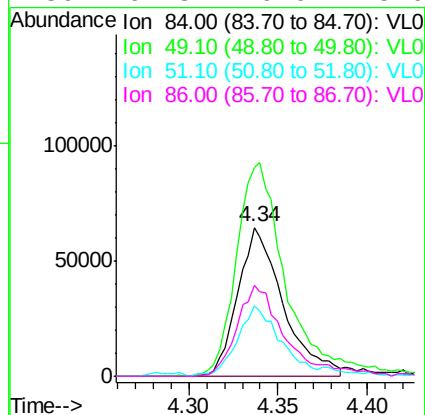
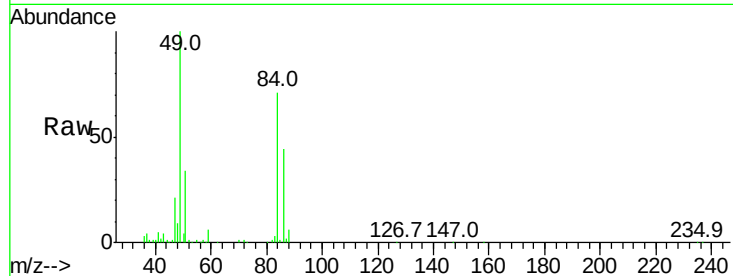
RT: 4.34

Delta R.T. MSVOA_1

Lab File: ClientSampleId : SV-1

Acq: 7 Dec 2021 19:25

Tot Ion:	84	Resp:	114452
Ion	Ratio	Lower	Upper
84	100		
49	140.2	118.2	177.2
51	47.7	36.8	55.2
86	61.3	49.0	73.6



#21

Allyl Chloride

Concen: 0.081 ppbv

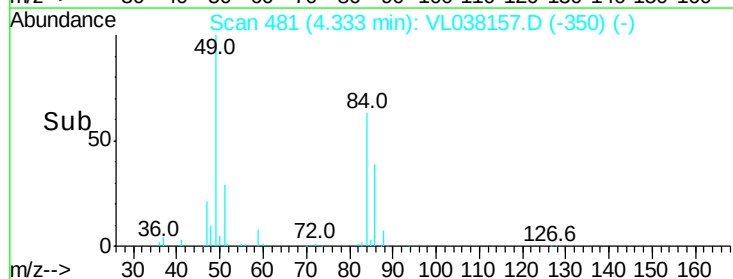
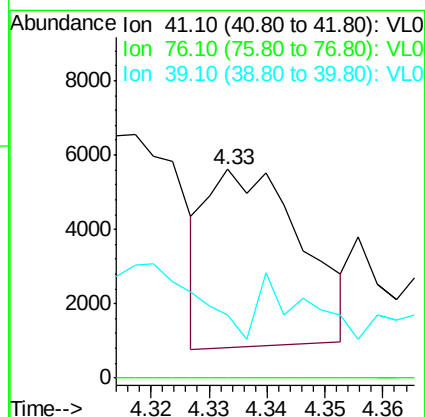
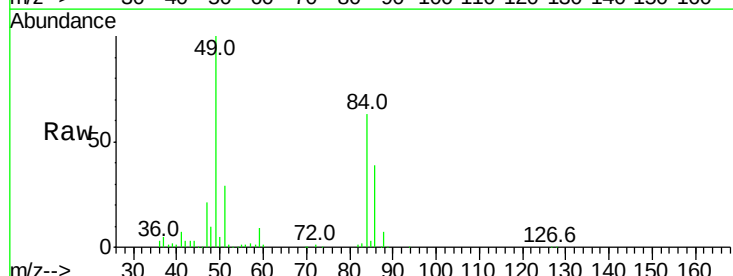
RT: 4.33 min Scan# 481

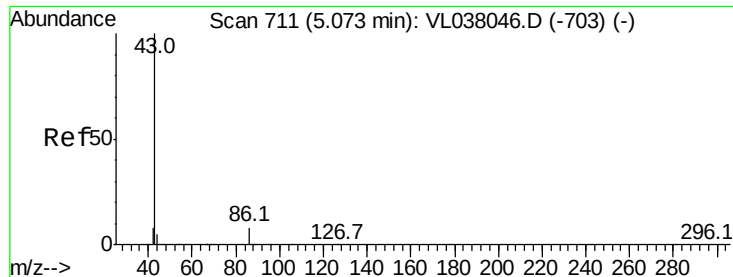
Delta R.T. -0.08 min

Lab File: VL038157.D

Acq: 7 Dec 2021 19:25

Tgt Ion:	41	Resp:	5421
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.6	36.8#
39	57.2	63.4	95.0#

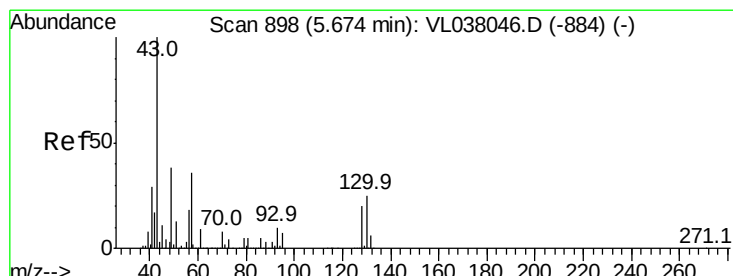
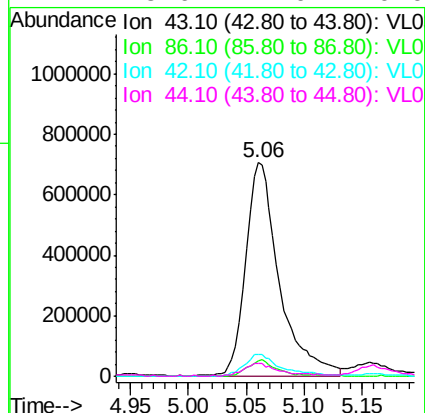
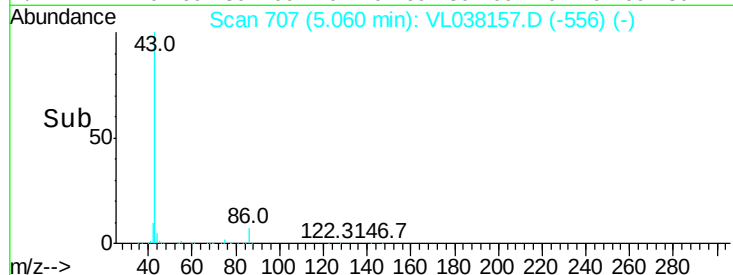
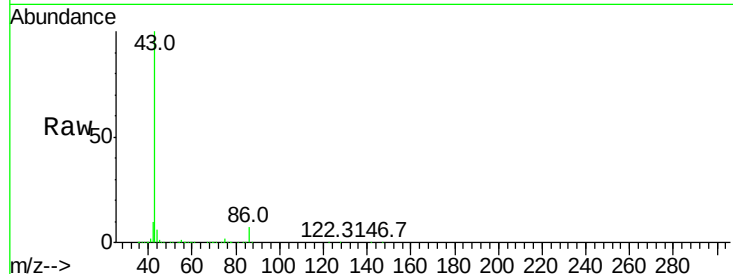




#23
 Vinyl Acetate
 Concen: 13.628 ppbv
 RT: 5.06
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Dec 2021 19:25

Tot Ion: 43 Resp: 1421642

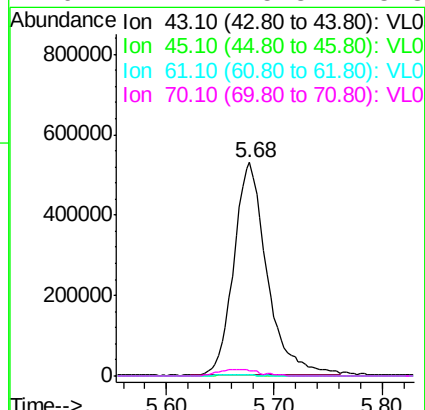
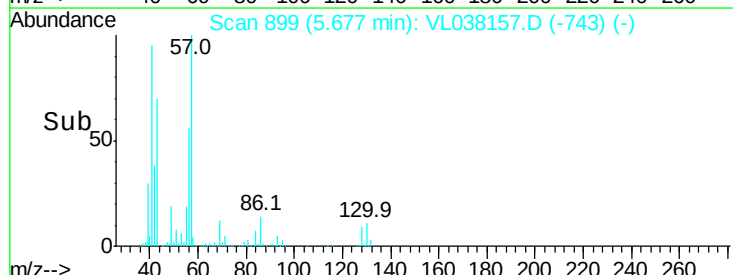
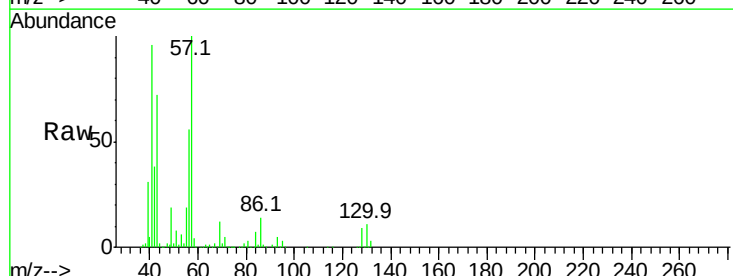
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.3	7.9
42	10.4	7.0	10.6
44	5.6	4.0	6.0

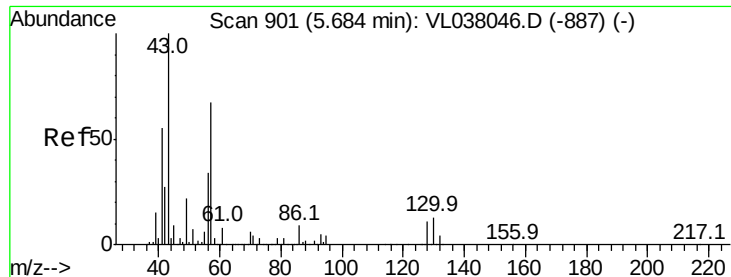


#25
 Ethyl Acetate
 Concen: 4.773 ppbv
 RT: 5.68 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VL038157.D
 Acq: 7 Dec 2021 19:25

Tgt Ion: 43 Resp: 1143144

Ion	Ratio	Lower	Upper
43	100		
45	0.8	7.9	11.9#
61	0.8	7.8	11.6#
70	4.1	5.8	8.8#





#26

Hexane

Concen: 13.208 ppbv

RT: 5.68

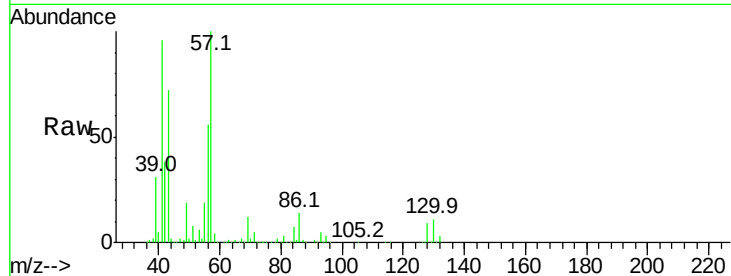
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Dec 2021 19:25

Tot Ion: 57 Resp: 1524706

Ion	Ratio	Lower	Upper
57	100		
41	122.3	71.4	107.2#
43	75.9	174.6	261.8#
56	64.1	43.2	64.8

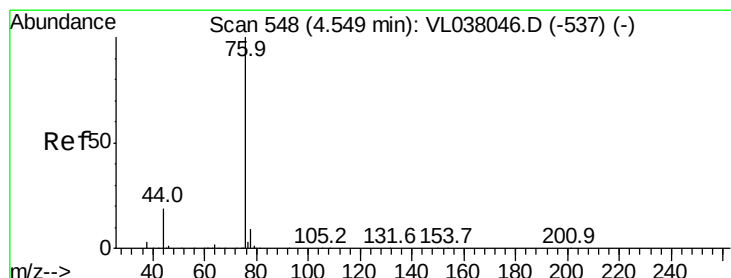
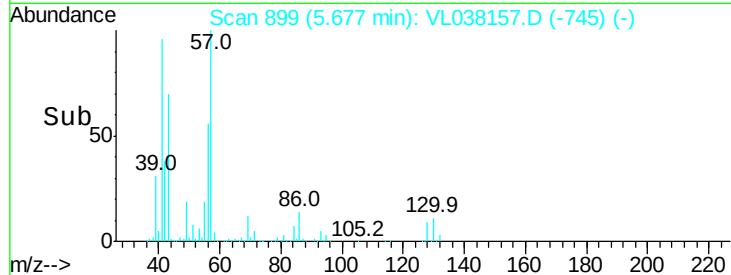
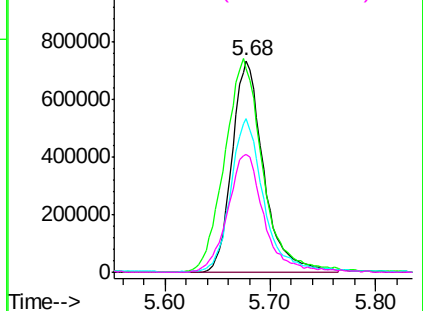


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.165 ppbv

RT: 4.54 min Scan# 546

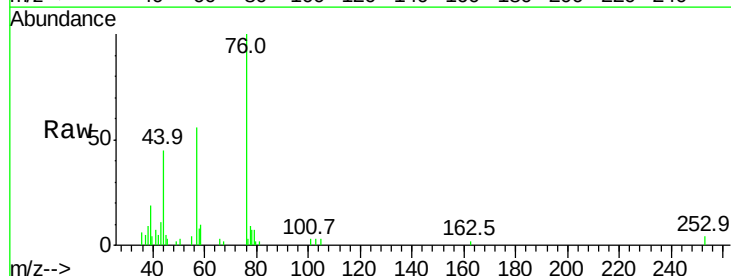
Delta R.T. -0.01 min

Lab File: VL038157.D

Acq: 7 Dec 2021 19:25

Tgt Ion: 76 Resp: 17046

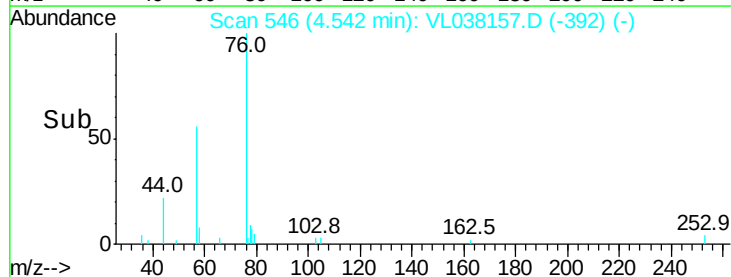
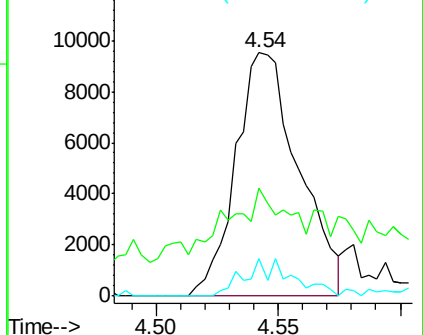
Ion	Ratio	Lower	Upper
76	100		
44	31.8	14.9	22.3#
78	13.2	7.6	11.4#

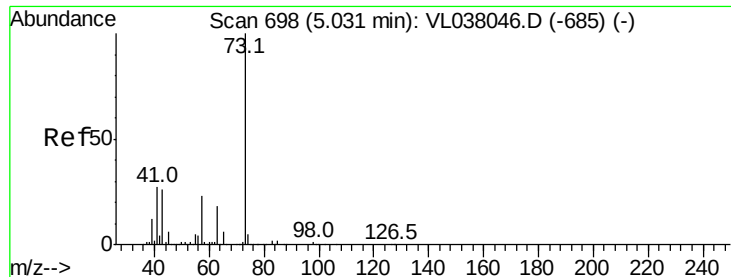


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#28

Methyl tert-Butyl Ether

Concen: 0.370 ppbv

RT: 5.03

Delta R.T. MSVOA_L

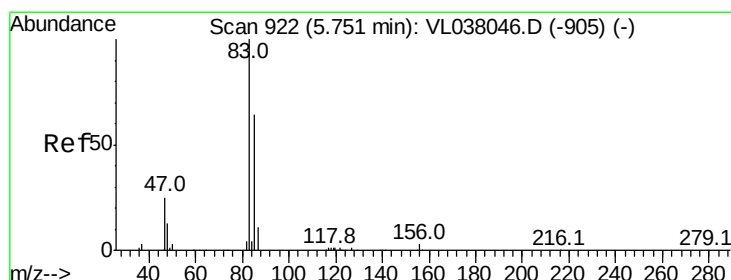
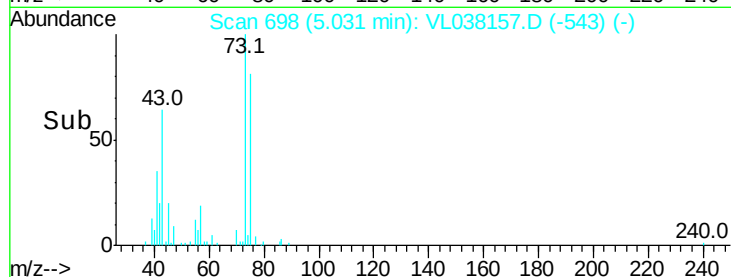
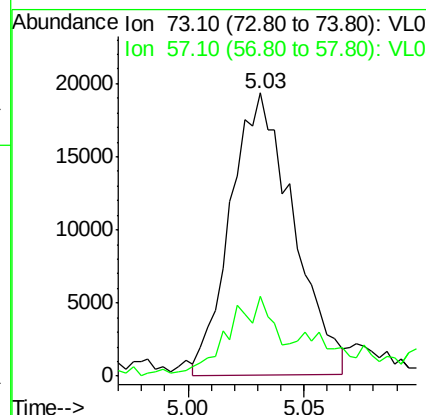
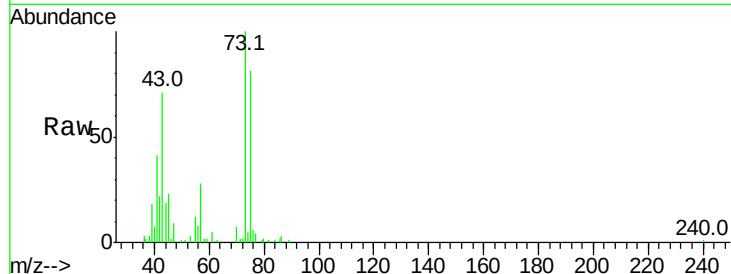
Lab File: ClientSampleId :

SV-1

Acq: 7 Dec 2021 19:25

Tot Ion: 73 Resp: 36281

Ion	Ratio	Lower	Upper
73	100		
57	32.7	19.0	28.4#



#29

Chloroform

Concen: 0.595 ppbv

RT: 5.74 min Scan# 919

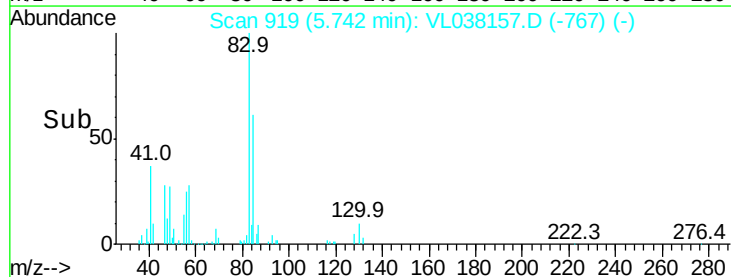
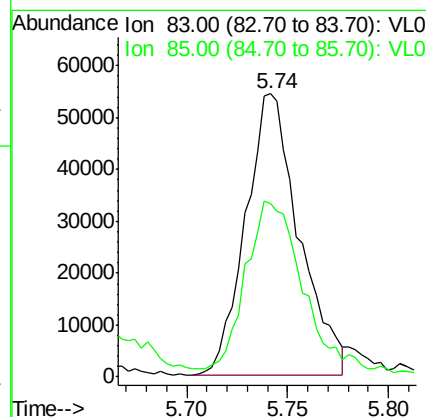
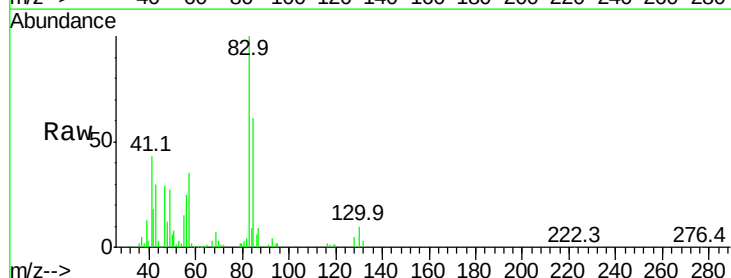
Delta R.T. -0.01 min

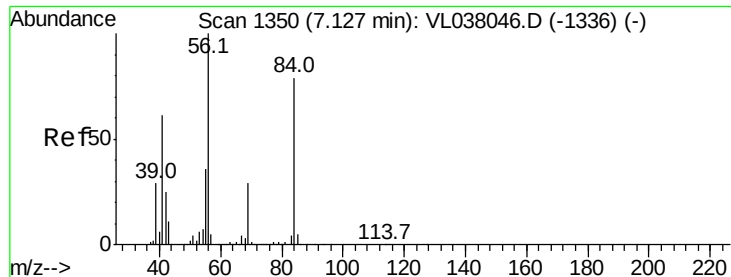
Lab File: VL038157.D

Acq: 7 Dec 2021 19:25

Tgt Ion: 83 Resp: 101157

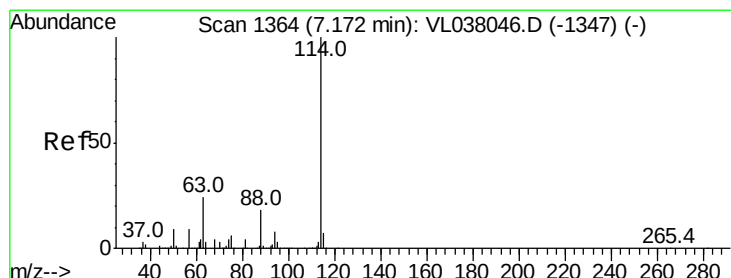
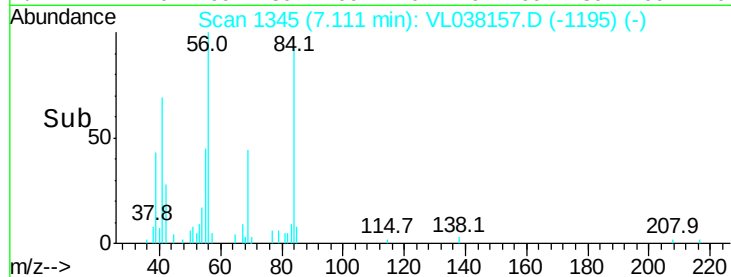
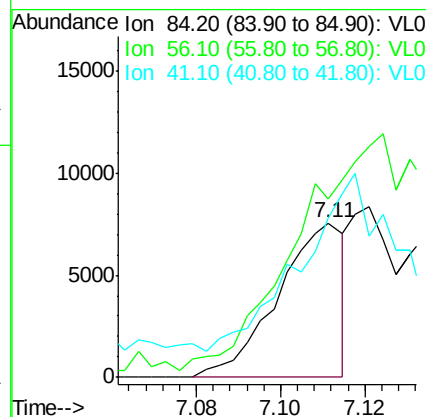
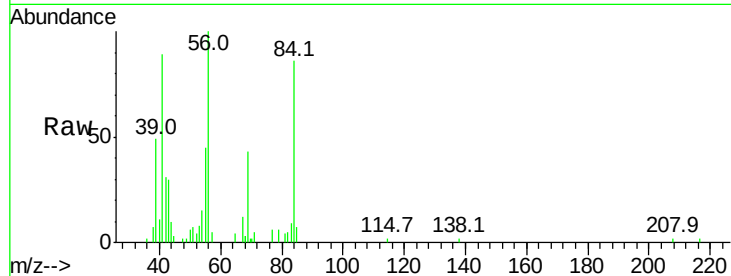
Ion	Ratio	Lower	Upper
83	100		
85	58.8	51.0	76.6





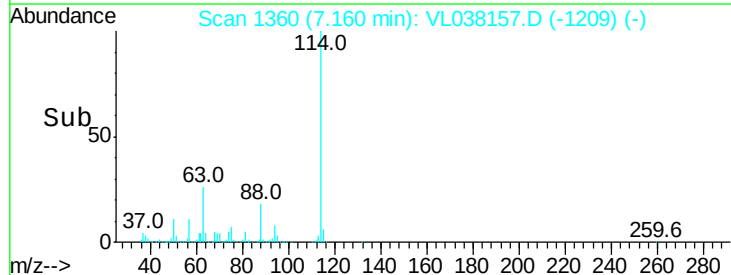
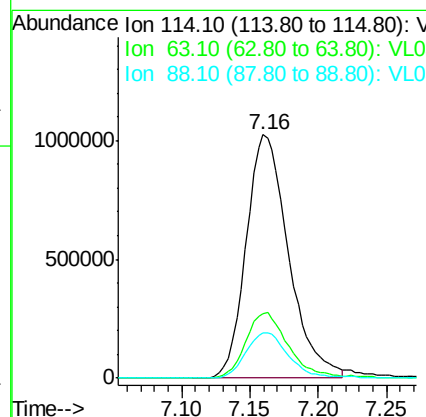
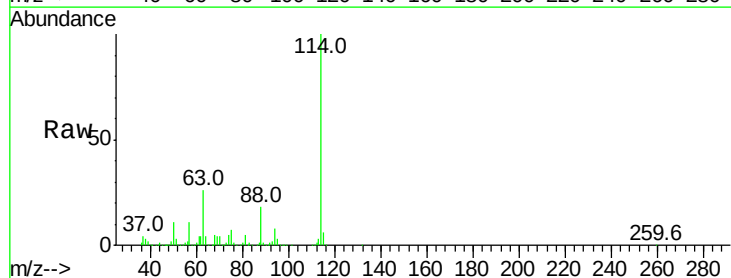
#30
Cvclohexane
Concen: 0.079 ppbv
RT: 7.11
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 19:25

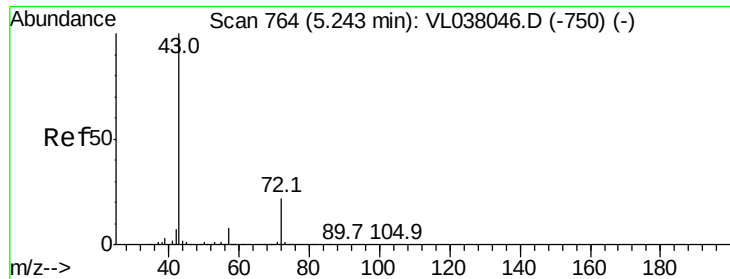
Tot Ion: 84 Resp: 8246
Ion Ratio Lower Upper
84 100
56 0.0 108.1 162.1#
41 0.0 64.4 96.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

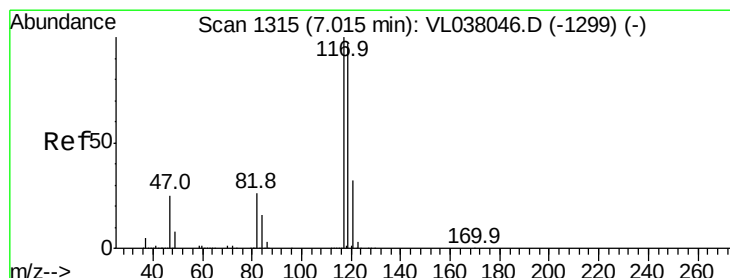
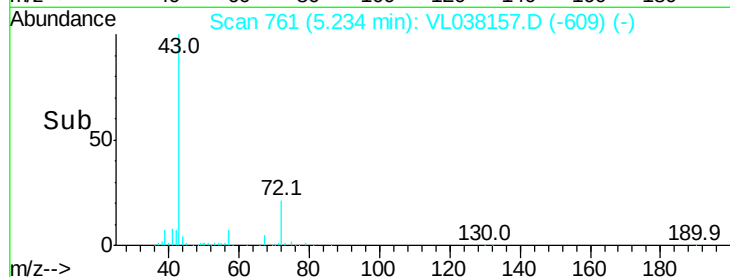
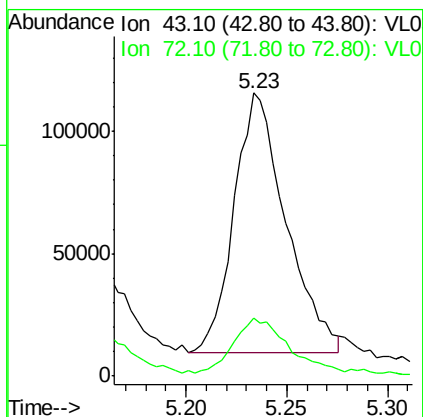
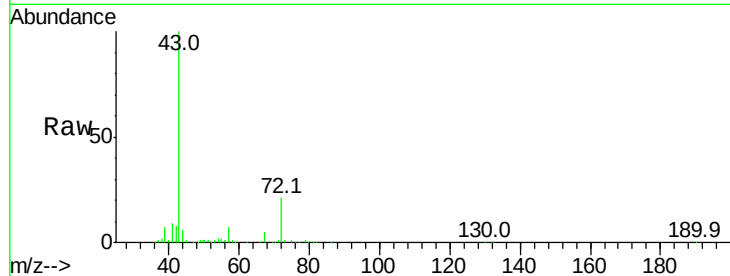
Tgt Ion: 114 Resp: 2210247
Ion Ratio Lower Upper
114 100
63 27.5 19.7 29.5
88 19.0 14.4 21.6





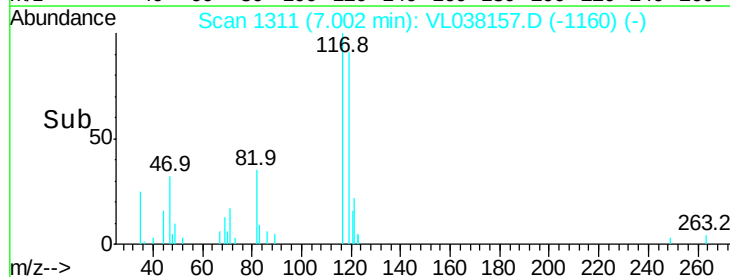
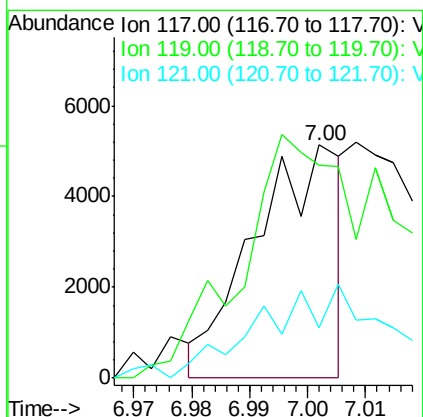
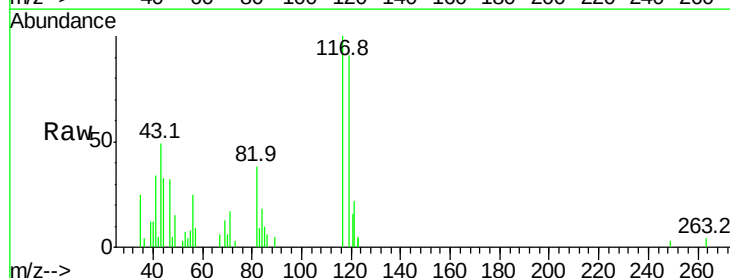
#34
 2-Butanone
 Concen: 2.152 ppbv
 RT: 5.23
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-1
 Acq: 7 Dec 2021 19:25

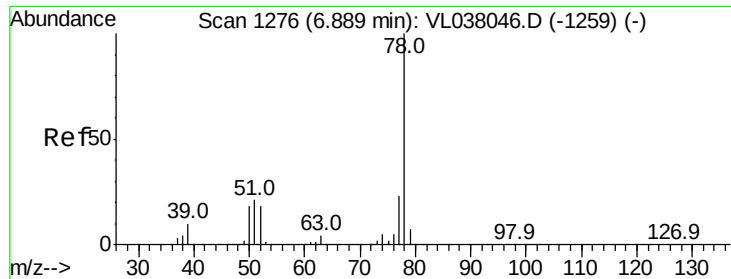
Tot Ion: 43 Resp: 191794
 Ion Ratio Lower Upper
 43 100
 72 28.2 18.8 28.2



#35
 Carbon Tetrachloride
 Concen: 0.034 ppbv
 RT: 7.00 min Scan# 1311
 Delta R.T. -0.01 min
 Lab File: VL038157.D
 Acq: 7 Dec 2021 19:25

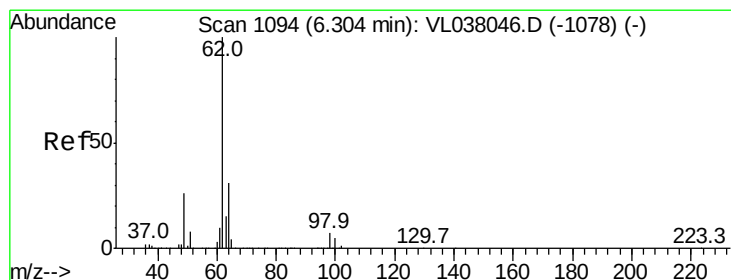
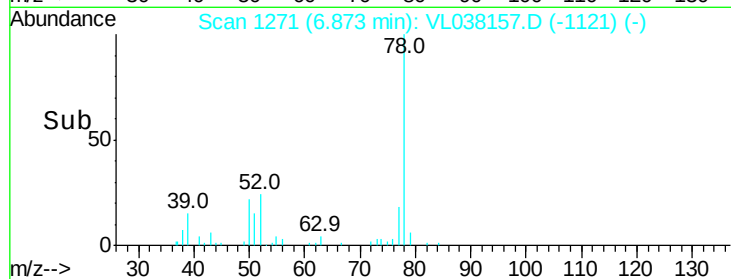
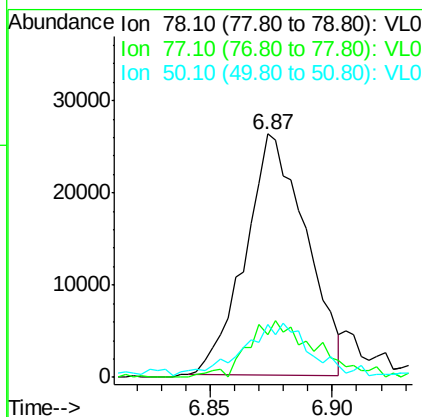
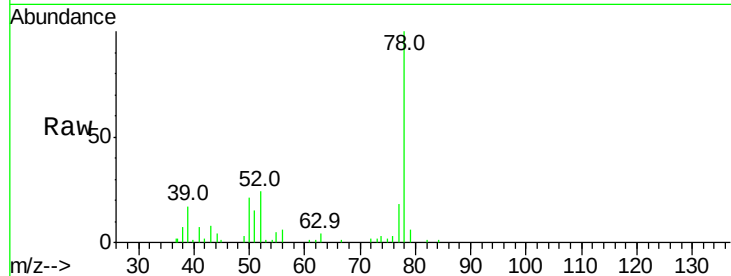
Tgt Ion: 117 Resp: 5282
 Ion Ratio Lower Upper
 117 100
 119 78.7 77.7 116.5
 121 18.2 25.6 38.4#





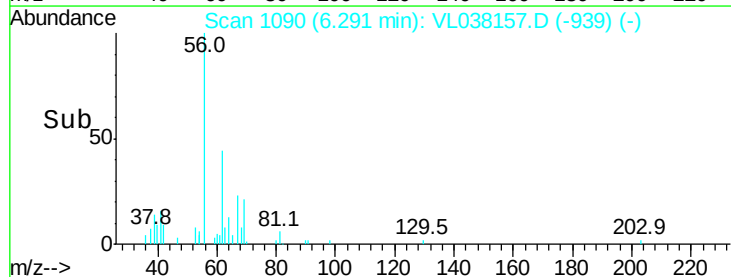
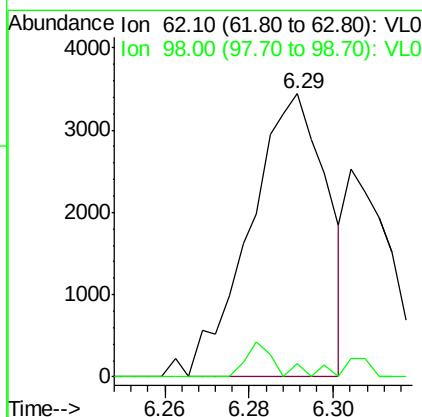
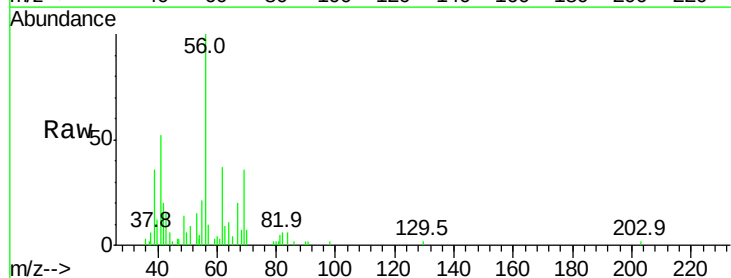
#36
Benzene
Concen: 0.205 ppbv
RT: 6.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-1
Acq: 7 Dec 2021 19:25

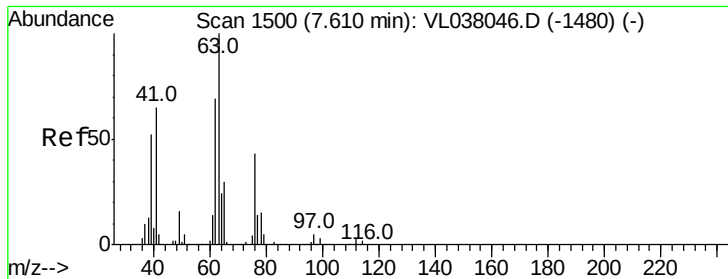
Tot Ion: 78 Resp: 45221
Ion Ratio Lower Upper
78 100
77 18.1 18.2 27.4#
50 16.7 14.7 22.1



#37
1,2-Dichloroethane
Concen: 0.041 ppbv
RT: 6.29 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

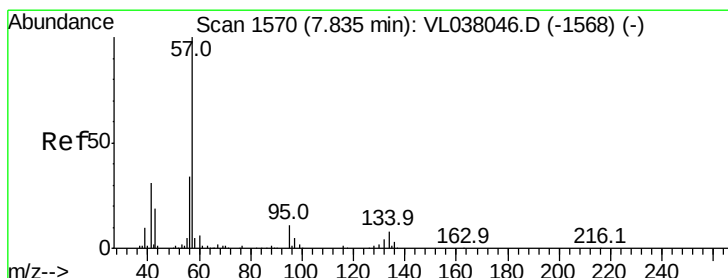
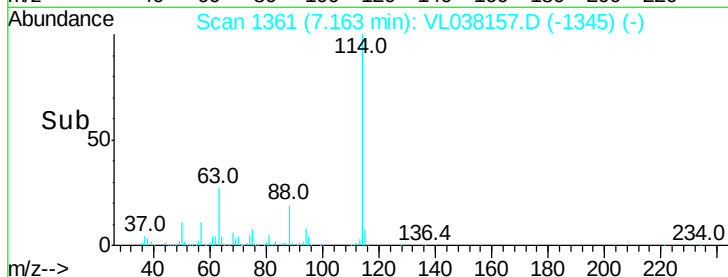
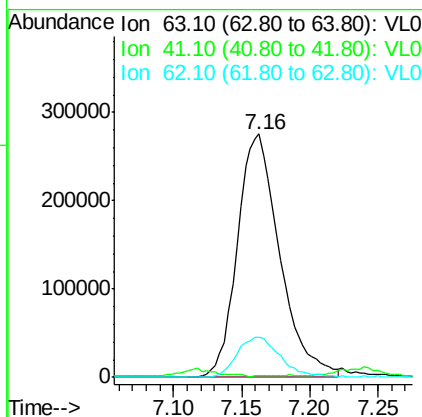
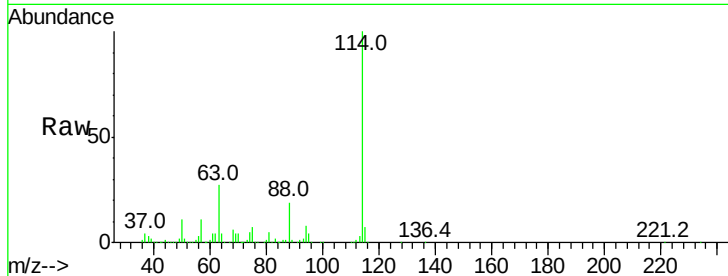
Tgt Ion: 62 Resp: 4335
Ion Ratio Lower Upper
62 100
98 8.1 5.8 8.6





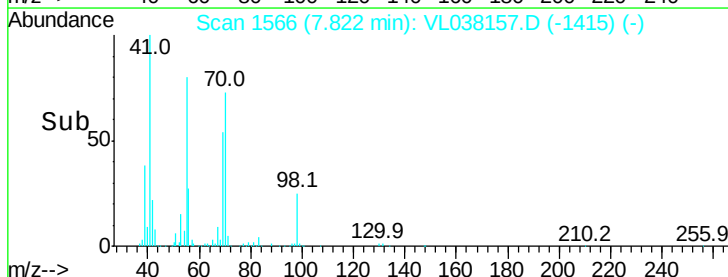
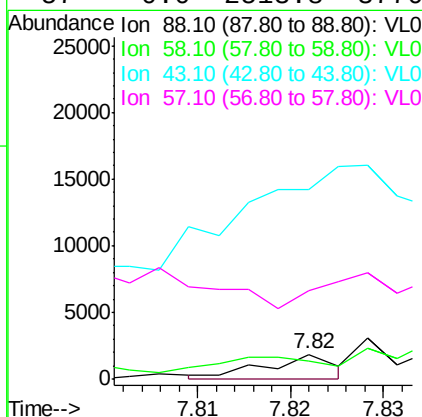
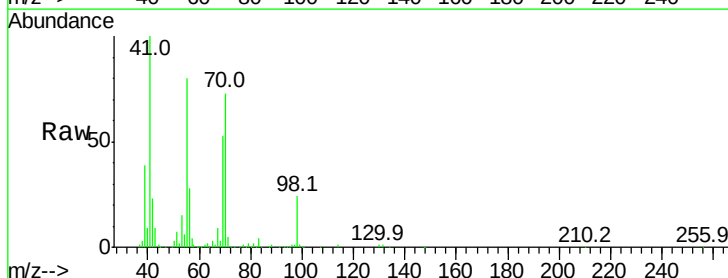
#39
 1,2-Dichloropropane
 Concen: 7.024 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-1
 Acq: 7 Dec 2021 19:25

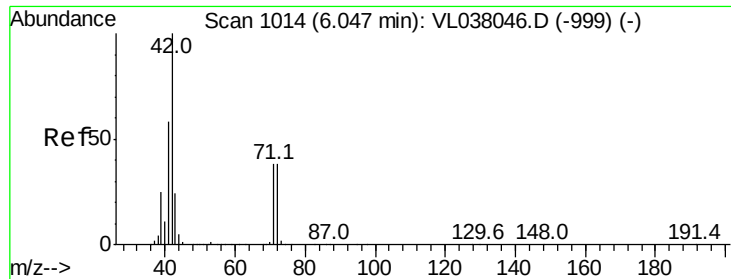
Tot Ion: 63 Resp: 594094
 Ion Ratio Lower Upper
 63 100
 41 0.0 52.3 78.5#
 62 16.4 55.1 82.7#



#40
 1,4-Dioxane
 Concen: 0.043 ppbv
 RT: 7.82 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: VL038157.D
 Acq: 7 Dec 2021 19:25

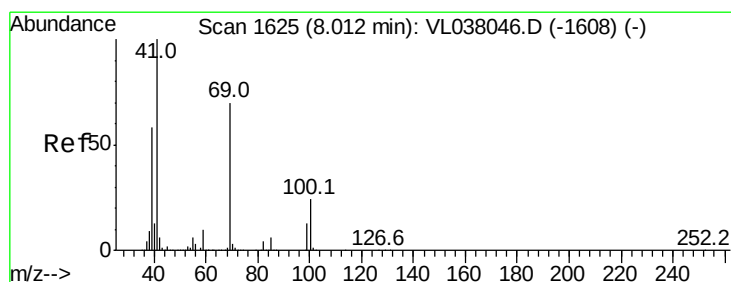
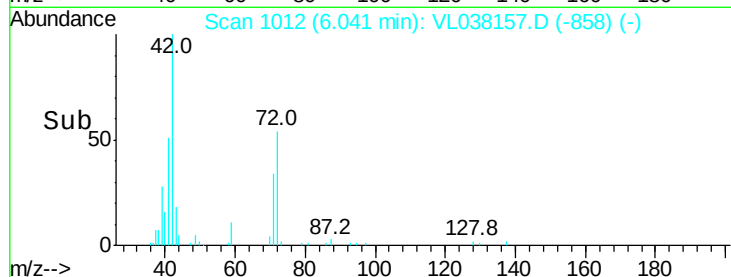
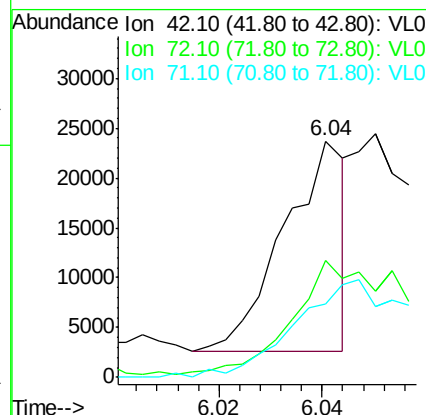
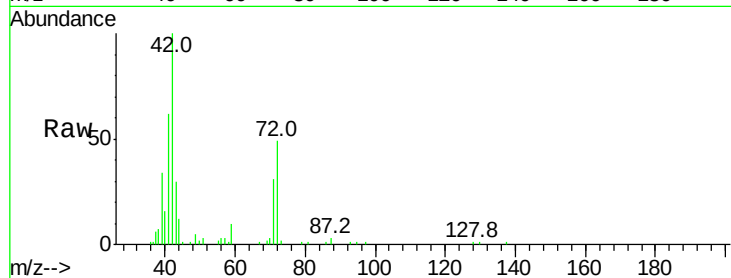
Tgt Ion: 88 Resp: 943
 Ion Ratio Lower Upper
 88 100
 58 0.0 229.2 343.8#
 43 0.0 553.3 829.9#
 57 0.0 2513.8 3770.8#





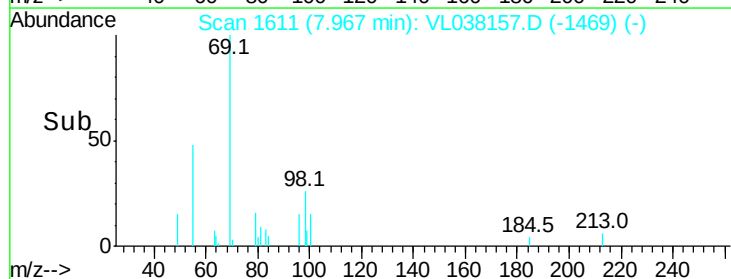
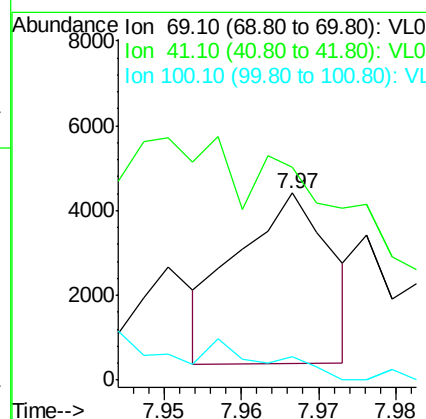
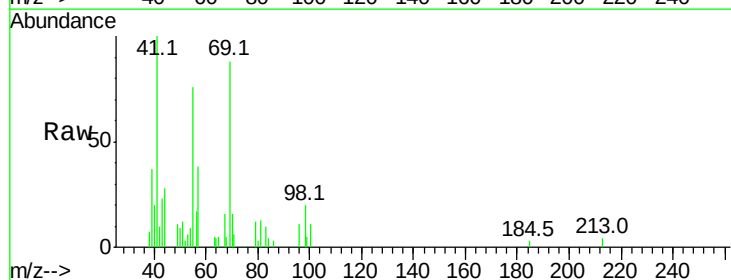
#41
Tetrahydrofuran
Concen: 0.318 ppbv
RT: 6.04
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SV-1
Acq: 7 Dec 2021 19:25

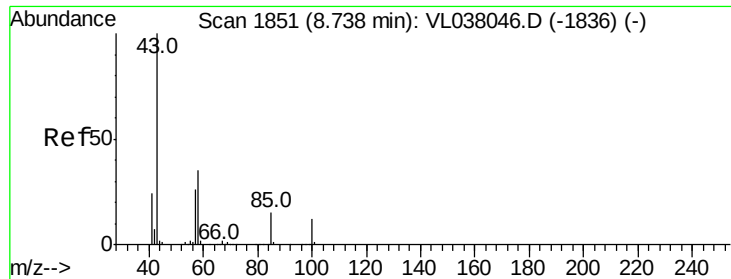
Tot Ion: 42 Resp: 17595
Ion Ratio Lower Upper
42 100
72 145.1 31.7 47.5#
71 0.0 30.6 46.0#



#43
Methyl Methacrylate
Concen: 0.045 ppbv
RT: 7.97 min Scan# 1611
Delta R.T. -0.05 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

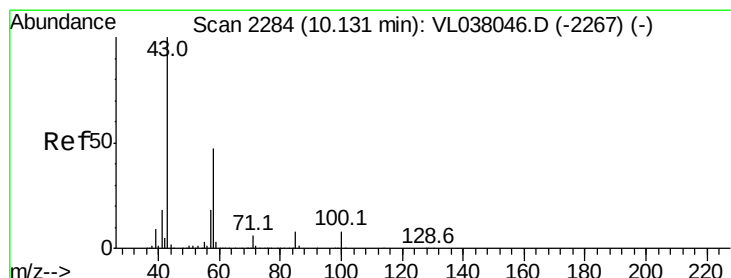
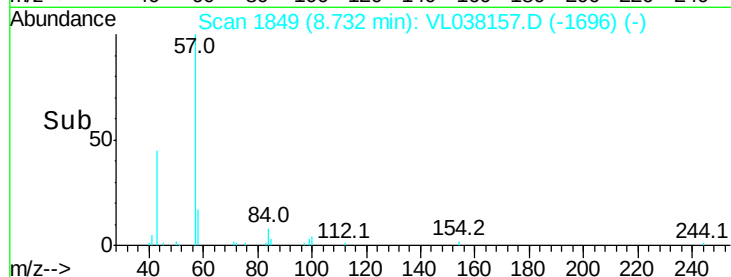
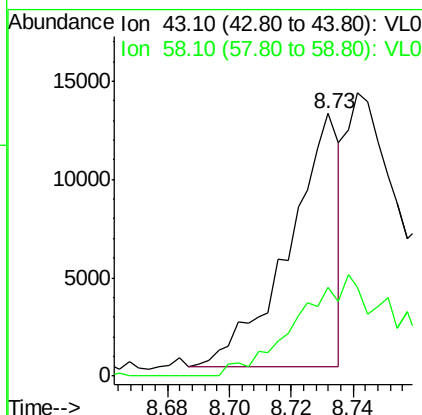
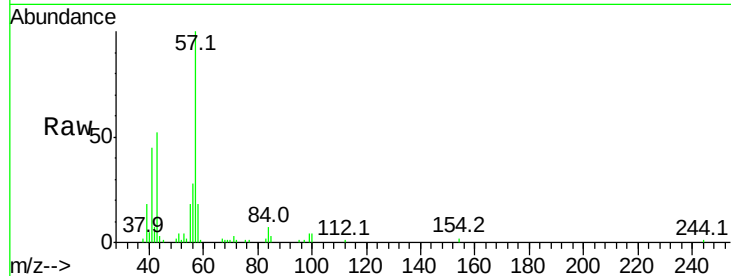
Tgt Ion: 69 Resp: 3405
Ion Ratio Lower Upper
69 100
41 509.6 116.7 175.1#
100 59.9 27.3 40.9#





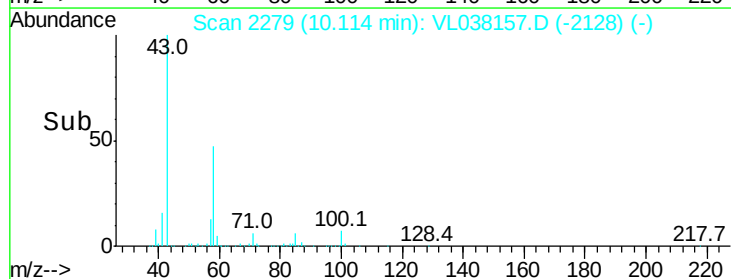
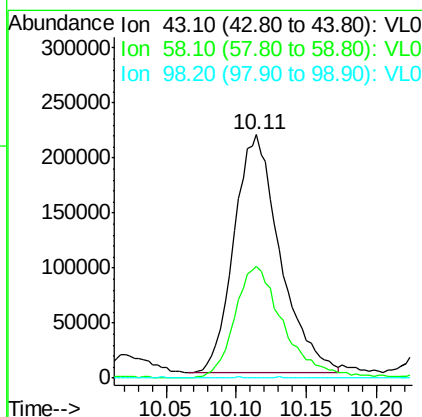
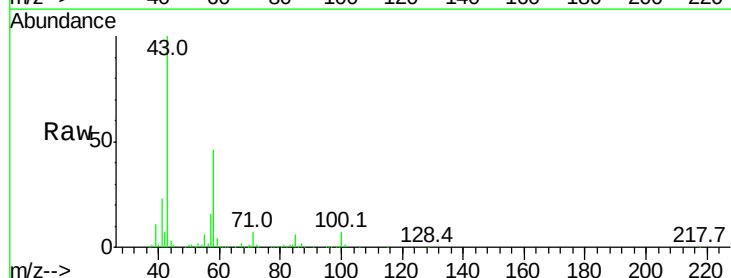
#50
 4-Methyl-2-Pentanone
 Concen: 0.107 ppbv
 RT: 8.73
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-1
 Acq: 7 Dec 2021 19:25

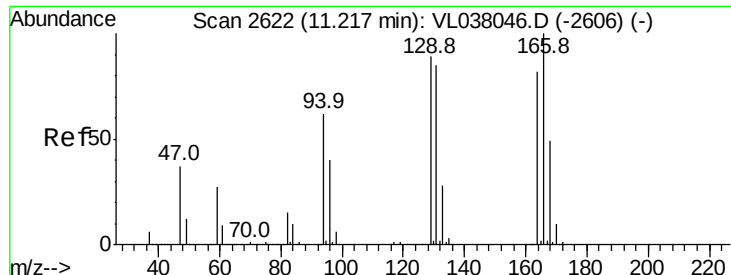
Tot Ion: 43 Resp: 14509
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.4 44.2#



#51
 2-Hexanone
 Concen: 7.750 ppbv
 RT: 10.11 min Scan# 2279
 Delta R.T. -0.02 min
 Lab File: VL038157.D
 Acq: 7 Dec 2021 19:25

Tgt Ion: 43 Resp: 493474
 Ion Ratio Lower Upper
 43 100
 58 49.8 41.1 61.7
 98 0.2 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.227 ppbv

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Dec 2021 19:25

Tot Ion:164 Resp: 18479

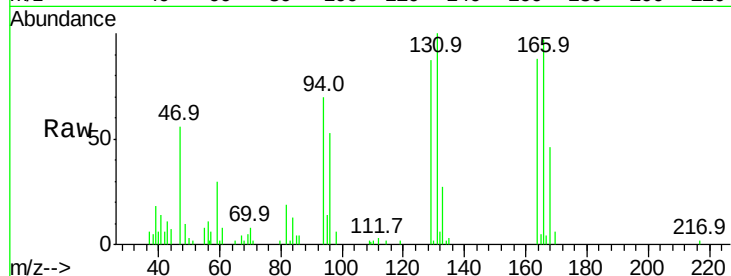
Ion Ratio Lower Upper

164 100

166 104.0 97.2 145.8

129 93.9 86.9 130.3

131 109.5 82.8 124.2

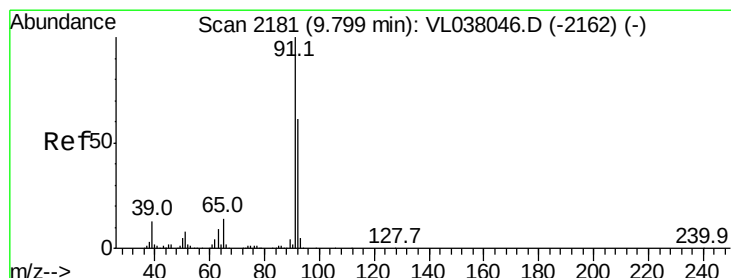
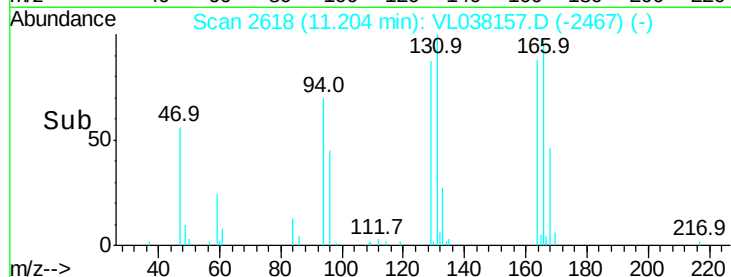
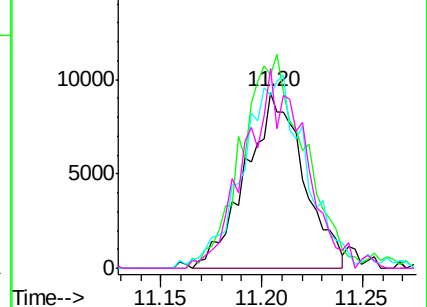


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.791 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL038157.D

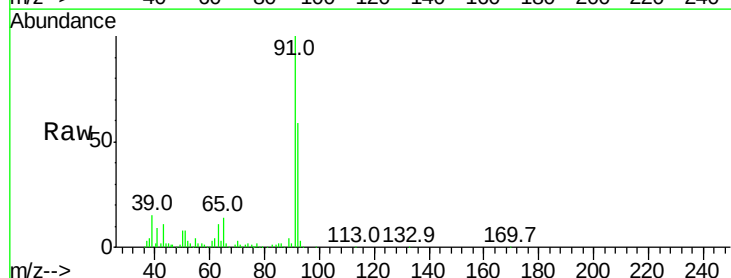
Acq: 7 Dec 2021 19:25

Tgt Ion: 91 Resp: 200594

Ion Ratio Lower Upper

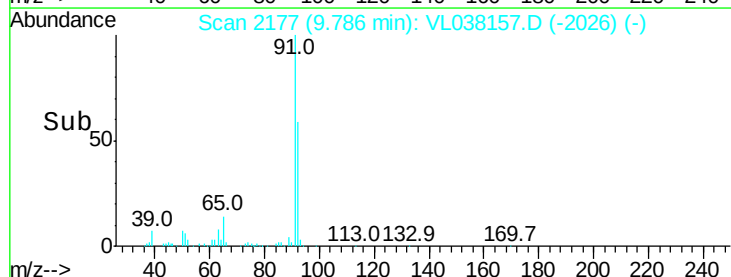
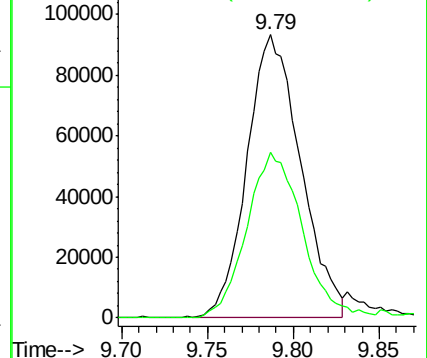
91 100

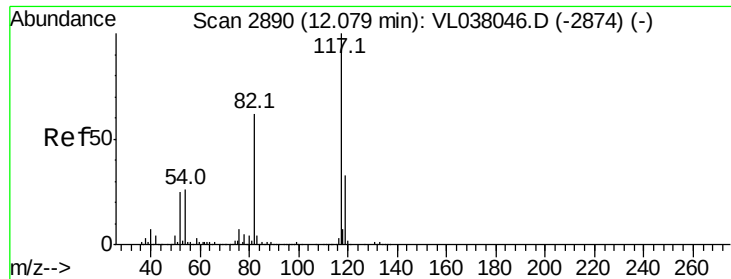
92 63.2 49.7 74.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Dec 2021 19:25

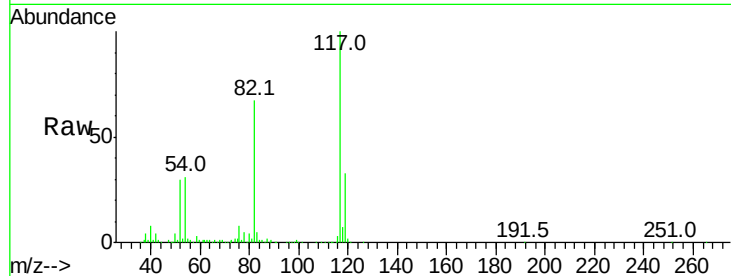
Tot Ion:117 Resp: 2041175

Ion Ratio Lower Upper

117 100

82 72.4 52.8 79.2

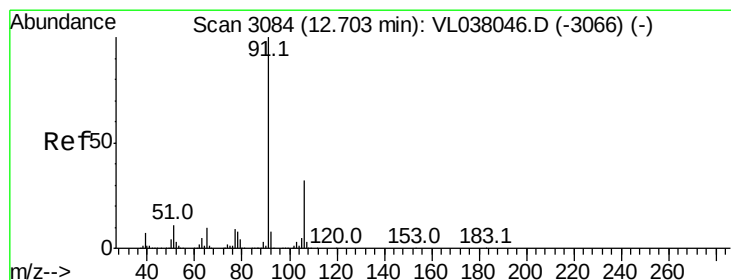
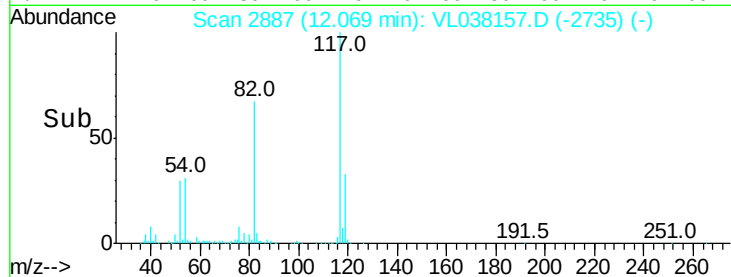
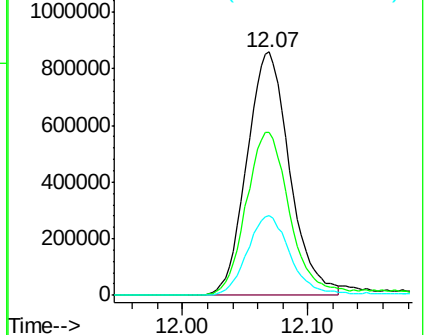
119 34.5 26.8 40.2



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



#58

Ethyl Benzene

Concen: 0.194 ppbv

RT: 12.69 min Scan# 3081

Delta R.T. -0.01 min

Lab File: VL038157.D

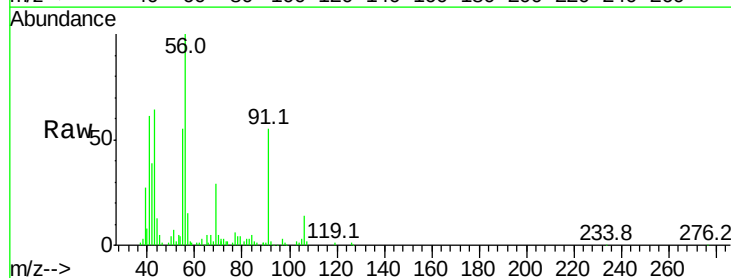
Acq: 7 Dec 2021 19:25

Tgt Ion: 91 Resp: 65585

Ion Ratio Lower Upper

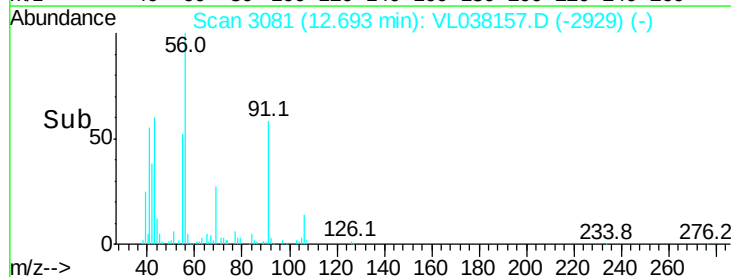
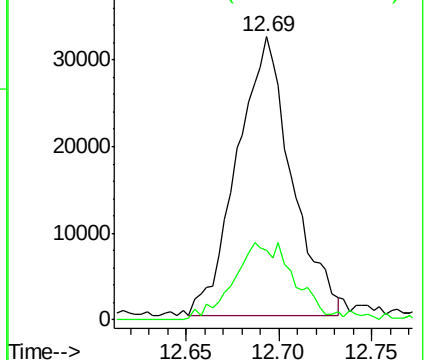
91 100

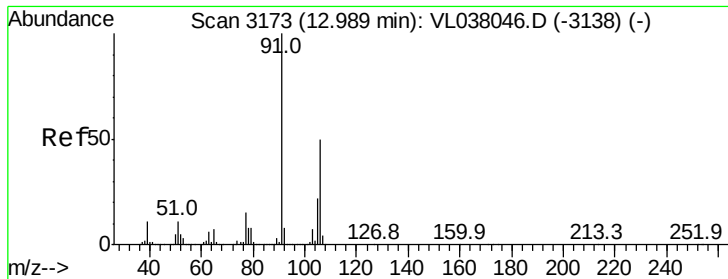
106 24.8 25.8 38.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

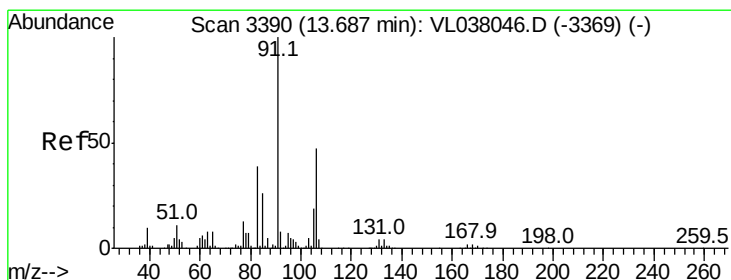
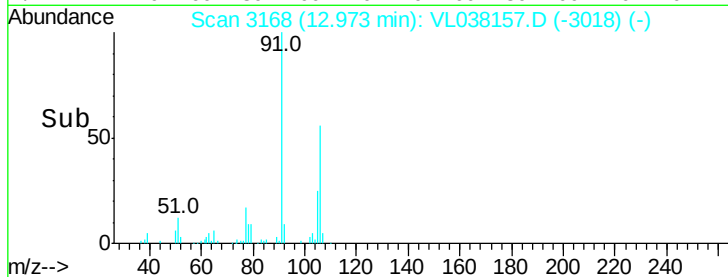
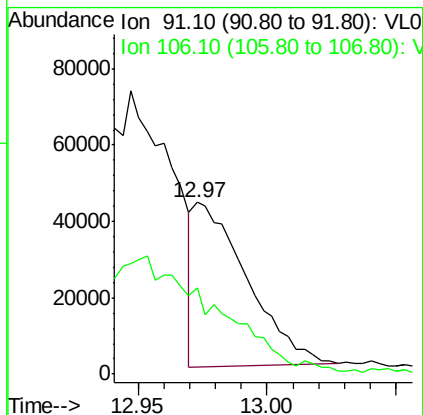
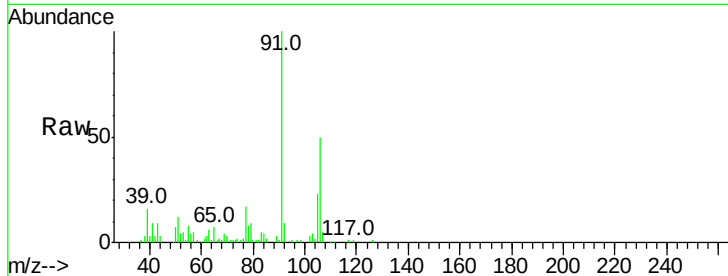
Ion 106.10 (105.80 to 106.80): V





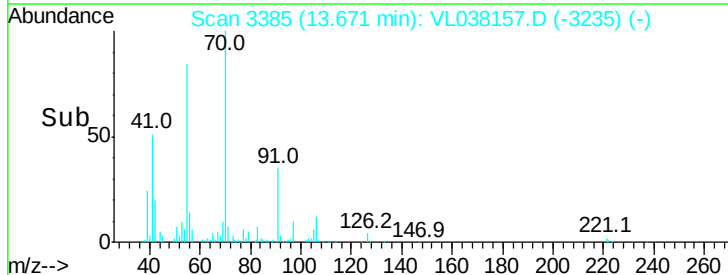
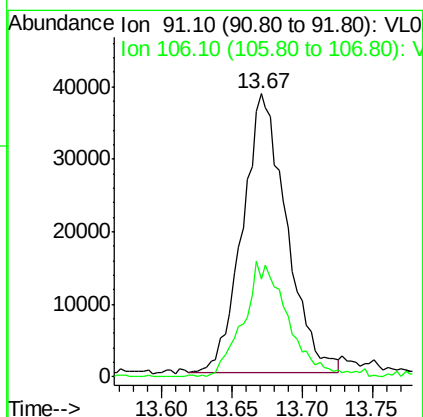
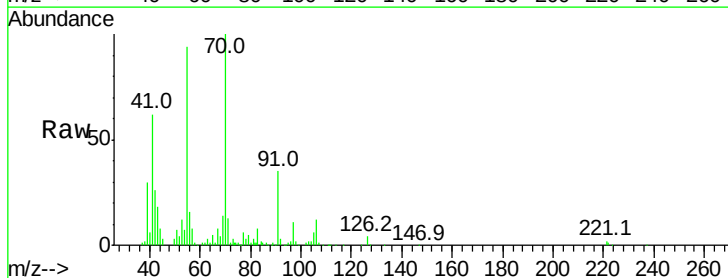
#59
m/p-Xylene
Concen: 0.214 ppbv
RT: 12.97 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 19:25

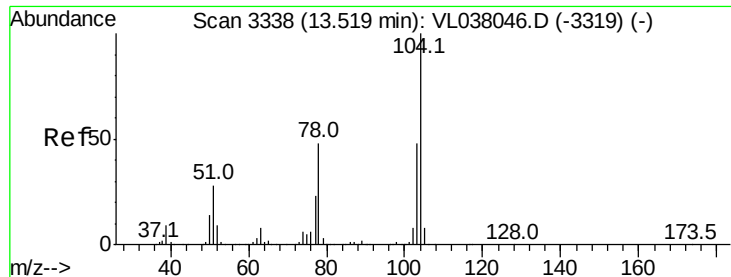
Tot Ion: 91 Resp: 60898
Ion Ratio Lower Upper
91 100
106 0.0 38.1 57.1#



#60
o-Xylene
Concen: 0.317 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.02 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

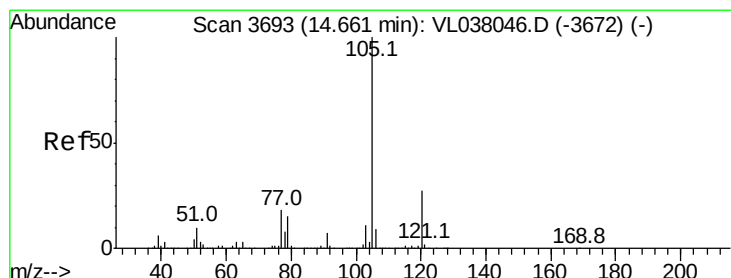
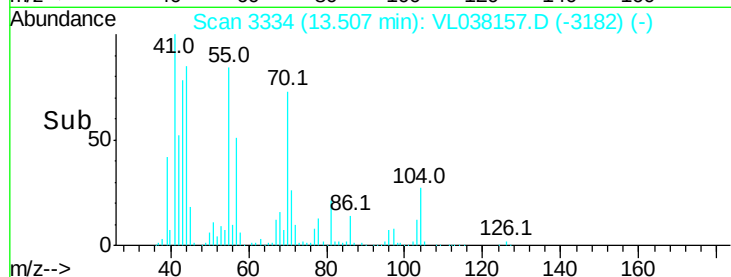
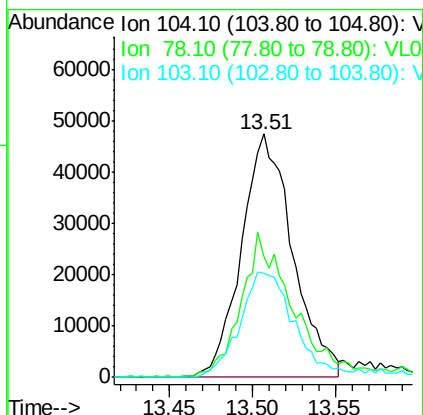
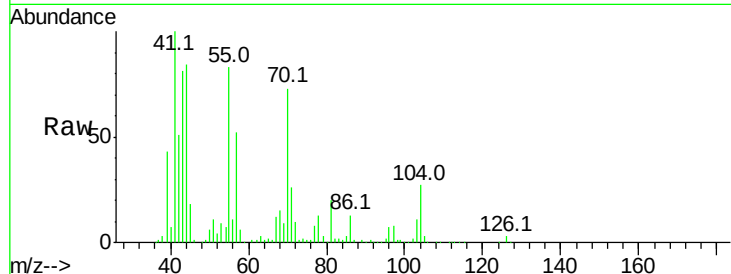
Tgt Ion: 91 Resp: 83459
Ion Ratio Lower Upper
91 100
106 42.6 24.2 72.6





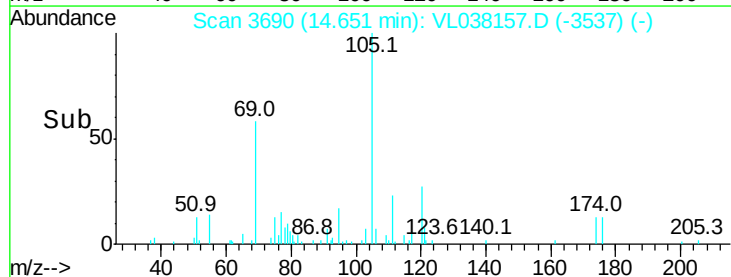
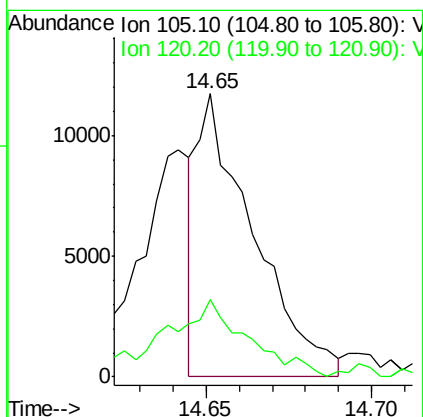
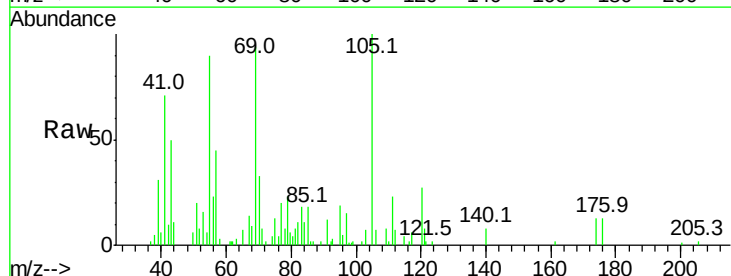
#61
Stvrene
Concen: 0.723 ppbv
RT: 13.51 min
Delta R.T.: MSVOA_1
Lab File: ClientSampleId : SV-1
Acq: 7 Dec 2021 19:25

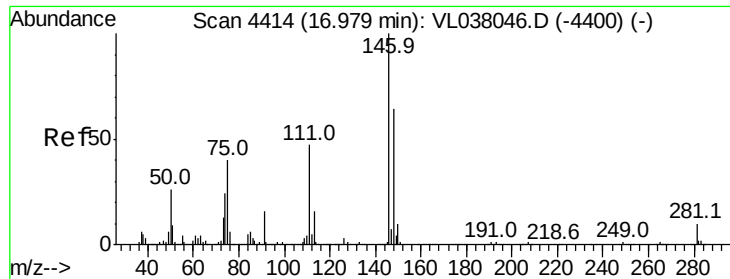
Tot Ion	Ratio	Lower	Upper
104	100		
78	62.8	39.8	59.6#
103	46.1	38.2	57.2



#62
Isopropylbenzene
Concen: 0.037 ppbv
RT: 14.65 min Scan# 3690
Delta R.T.: -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

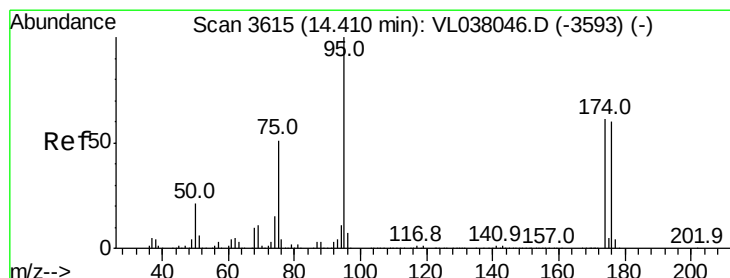
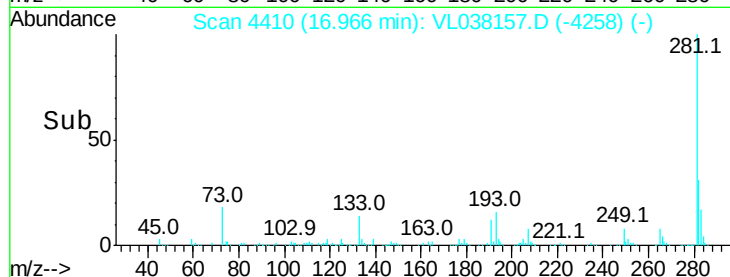
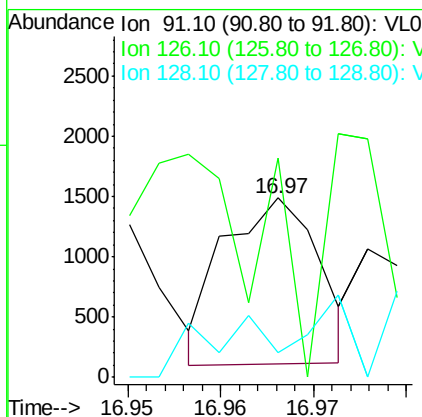
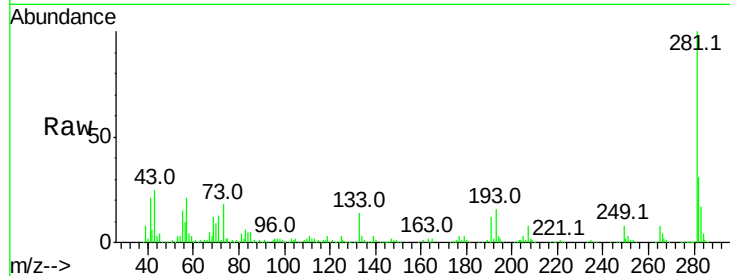
Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.4	21.8	32.6#





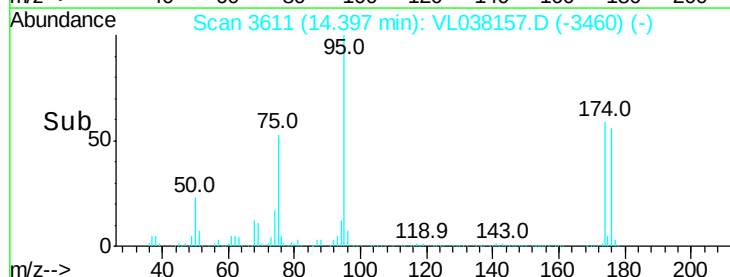
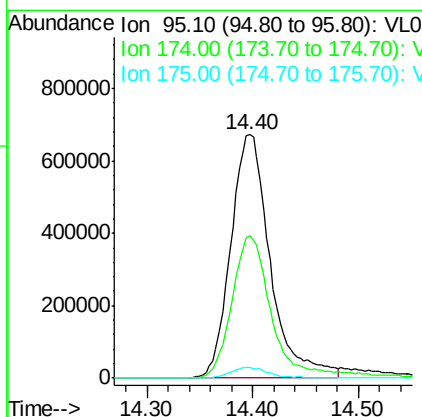
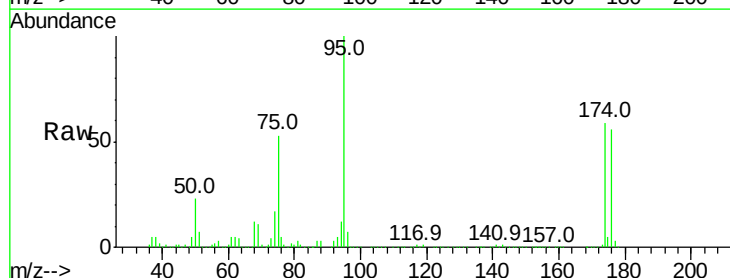
#66
Benzyl Chloride
Concen: 0.059 ppbv
RT: 16.97 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SV-1
Acq: 7 Dec 2021 19:25

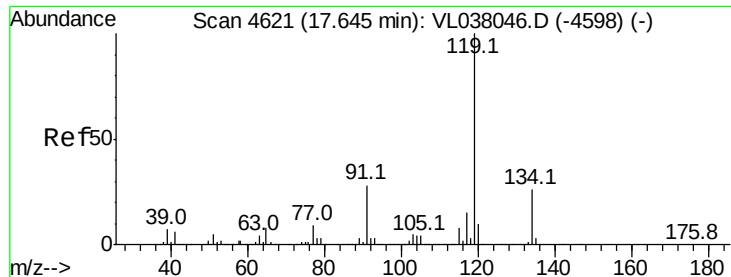
Tot Ion: 91 Resp: 985
Ion Ratio Lower Upper
91 100
126 0.0 15.5 23.3#
128 0.0 5.6 8.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 11.839 ppbv
RT: 14.40 min Scan# 3611
Delta R.T.: -0.01 min
Lab File: VL038157.D
Acq: 7 Dec 2021 19:25

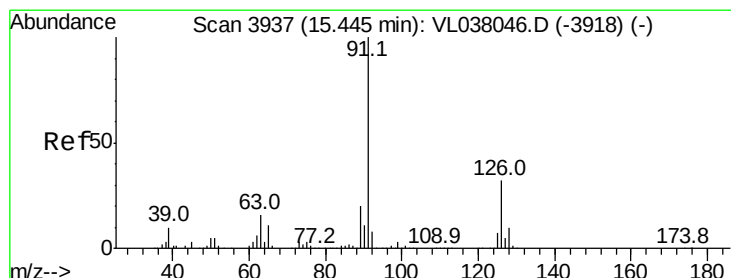
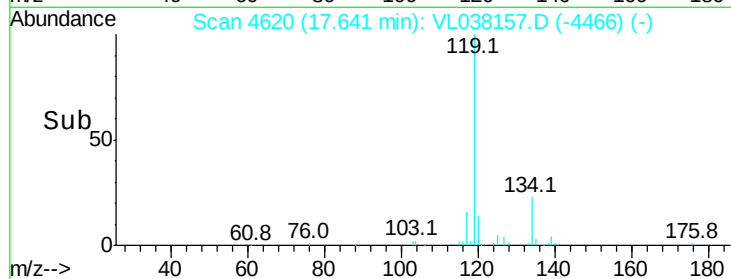
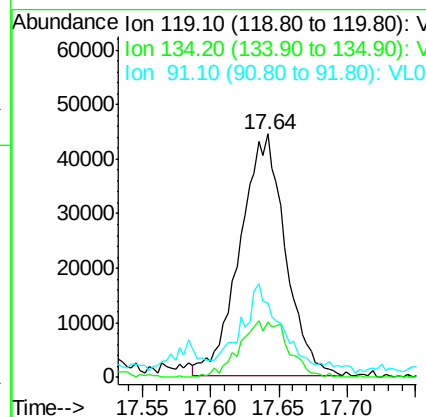
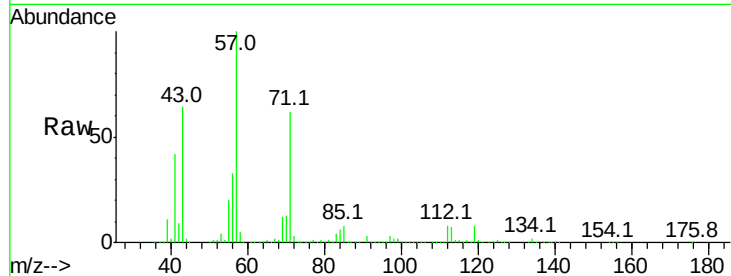
Tgt Ion: 95 Resp: 1743122
Ion Ratio Lower Upper
95 100
174 60.5 53.1 79.7
175 4.4 4.0 6.0





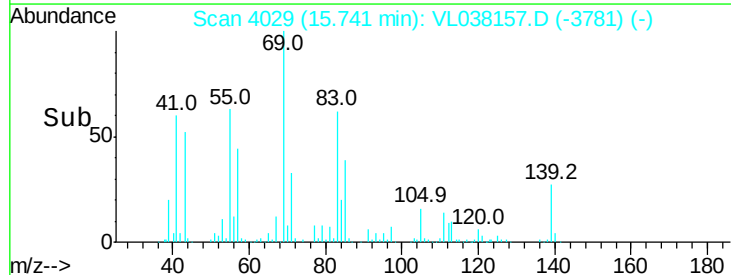
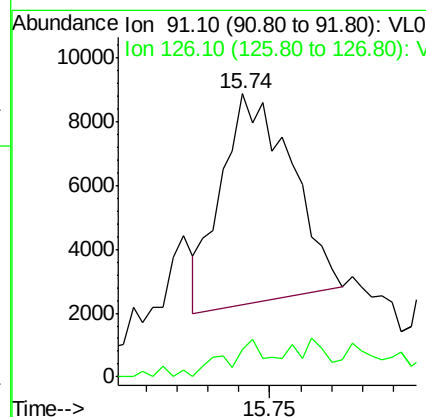
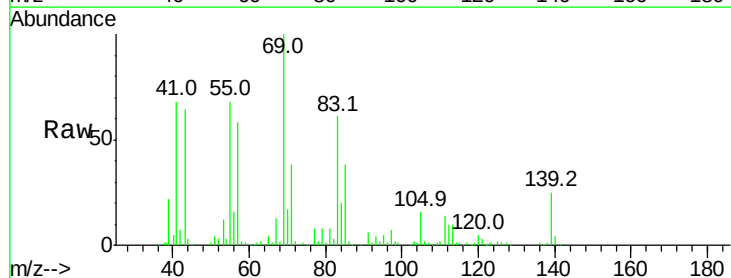
#69
 p-Isopropyltoluene
 Concen: 0.286 ppbv
 RT: 17.64 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId : SV-1
 Acq: 7 Dec 2021 19:25

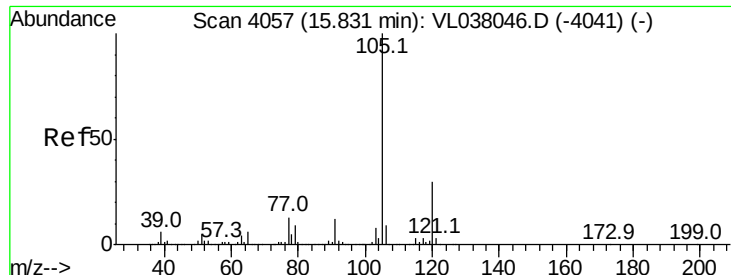
Tot Ion:	119	Resp:	102622
Ion Ratio	Lower	Upper	
119	100		
134	24.8	20.6	30.8
91	32.4	22.2	33.4



#71
 2-Chlorotoluene
 Concen: 0.038 ppbv
 RT: 15.74 min Scan# 4029
 Delta R.T. 0.30 min
 Lab File: VL038157.D
 Acq: 7 Dec 2021 19:25

Tgt Ion:	91	Resp:	10395
Ion Ratio	Lower	Upper	
91	100		
126	31.6	13.1	52.3





#72

4-Ethyltoluene

Concen: 0.109 ppbv

RT: 15.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV-1

Acq: 7 Dec 2021 19:25

Tot Ion:105 Resp: 33342

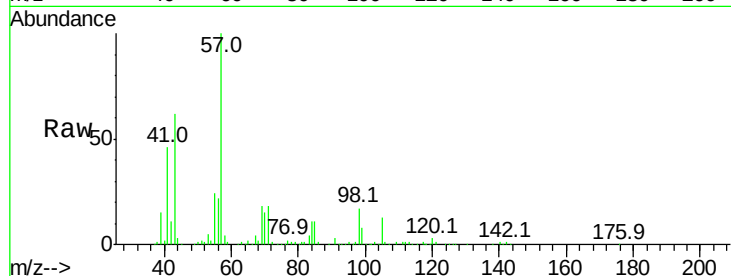
Ion Ratio Lower Upper

105 100

120 40.1 25.1 37.7#

91 26.9 9.7 14.5#

77 34.5 10.6 16.0#



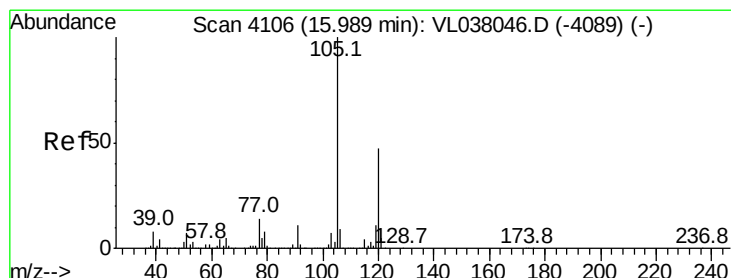
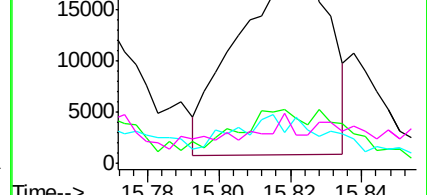
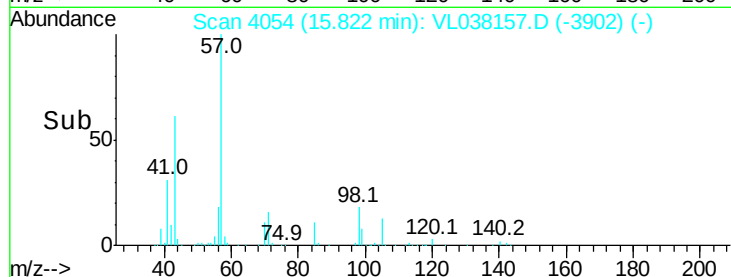
Abundance Ion 105.10 (104.80 to 105.80): V

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

Time-->



#73

1,3,5-Trimethylbenzene

Concen: 0.115 ppbv

RT: 15.98 min Scan# 4104

Delta R.T. -0.01 min

Lab File: VL038157.D

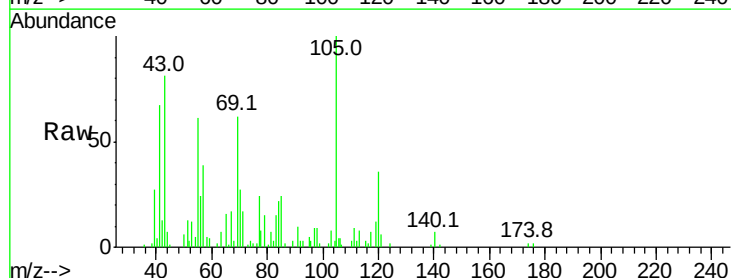
Acq: 7 Dec 2021 19:25

Tgt Ion:105 Resp: 32214

Ion Ratio Lower Upper

105 100

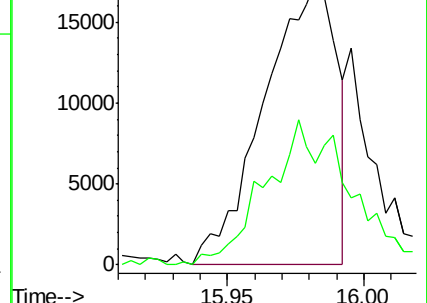
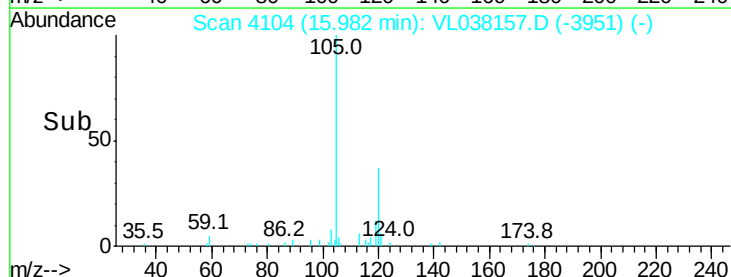
120 35.9 37.8 56.6#

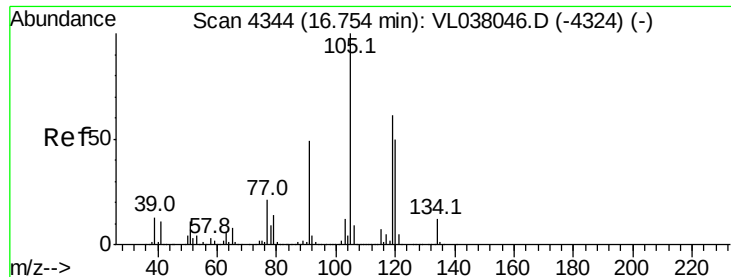


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Time-->





#74

1,2,4-Trimethylbenzene

Concen: 0.588 ppbv

RT: 16.74

Delta R.T.

Lab File:

Acq: 7 Dec 2021 19:25

Instrument:

MSVOA_1

ClientSampleId:

SV-1

Tot Ion:105 Resp: 169086

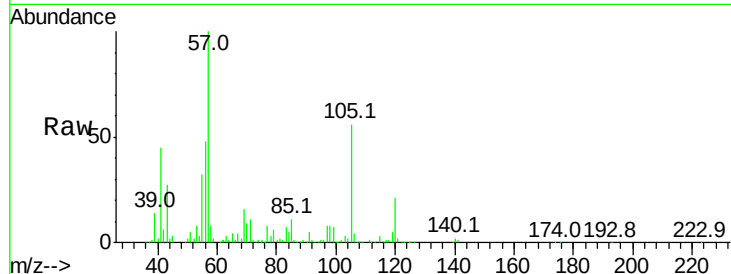
Ion Ratio Lower Upper

105 100

120 37.6 40.1 60.1#

91 7.6 39.8 59.8#

77 12.2 16.6 25.0#



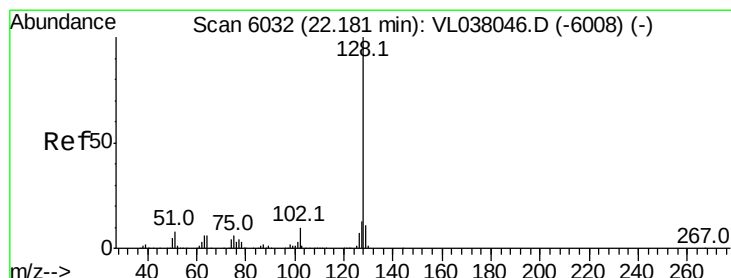
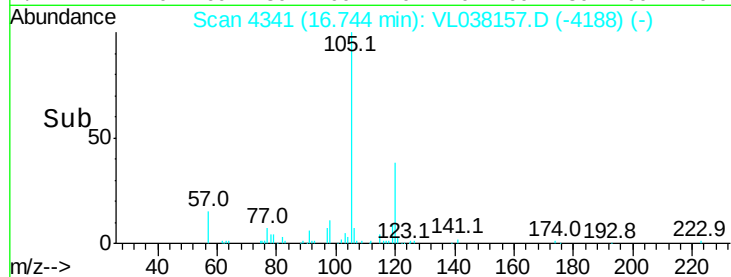
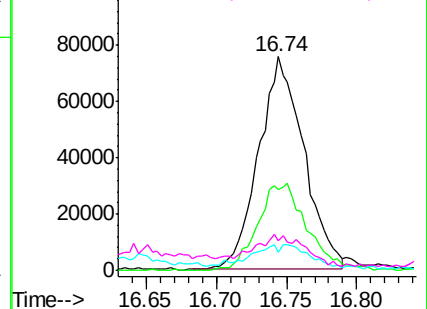
Abundance

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



#79

Naphthalene

Concen: 0.080 ppbv

RT: 22.16 min Scan# 6025

Delta R.T. -0.02 min

Lab File: VL038157.D

Acq: 7 Dec 2021 19:25

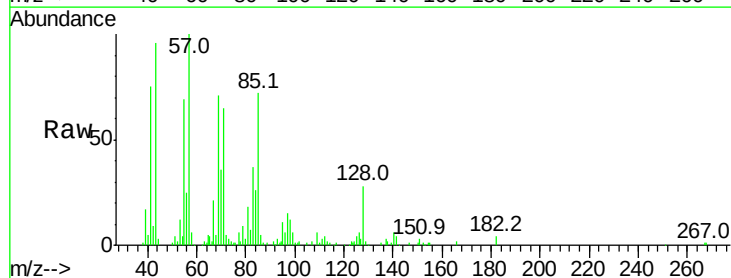
Tgt Ion:128 Resp: 12117

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 5.1 8.9 13.3#

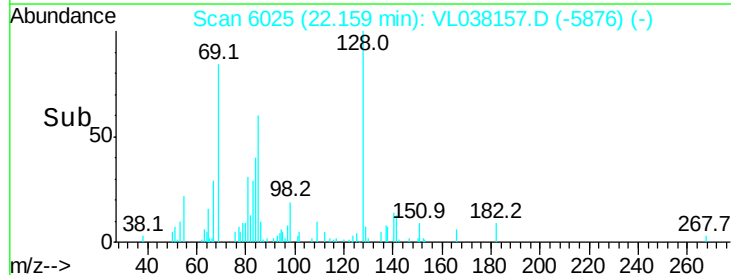
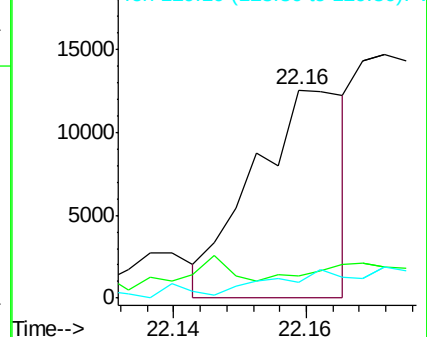


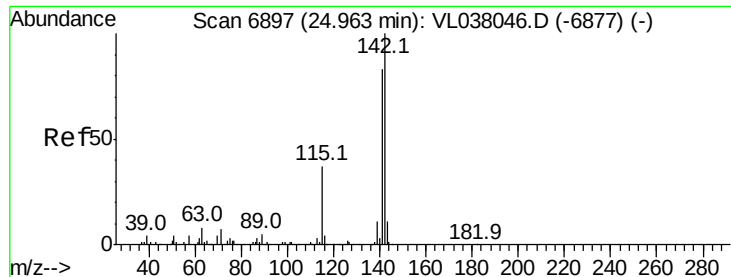
Abundance

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: 0.067 ppbv

RT: 24.96

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

SV-1

Acq: 7 Dec 2021 19:25

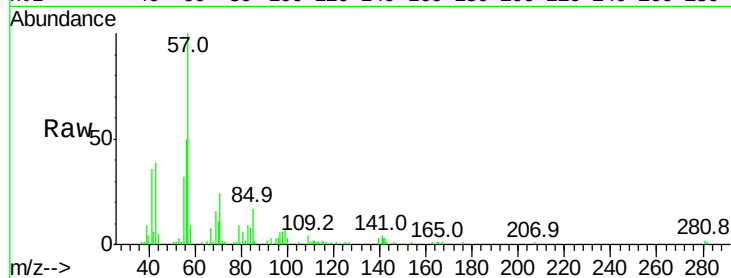
Tot Ion: 142 Resp: 2175

Ion Ratio Lower Upper

142 100

141 186.1 67.3 100.9#

115 62.1 28.9 43.3#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

