

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061521\
 Data File : VL037158.D
 Acq On : 15 Jun 2021 15:48
 Operator : SY/AP
 Sample : M2702-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 16 01:44:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jun 14 16:49:11 2021
 QLast Update : Mon Jun 14 16:49:11 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1393097	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4039857	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3687772	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2804485	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	56386	0.254 ppbv	92
3) Chlorodifluoromethane	2.97	51	319417	1.222 ppbv #	71
4) Chloromethane	3.15	50	91837	1.031 ppbv	95
9) Propene	3.03	41	254921	2.957 ppbv #	74
10) Heptane	8.14	43	179912	0.875 ppbv	98
11) Trichlorofluoromethane	3.96	101	38680	0.154 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.50	101	7875	0.046 ppbv #	51
13) Ethanol	3.62	45	4542350	381.382 ppbv	98
15) Acetone	3.86	43	4804780	28.823 ppbv	99
16) 1,3-Butadiene	3.32	39	26366	0.293 ppbv	91
17) tert-Butyl alcohol	3.98	59	230646	1.599 ppbv	99
19) Isopropyl Alcohol	3.99	45	6635211	72.535 ppbv	100
20) Methylene Chloride	4.36	84	7459185	102.673 ppbv	88
21) Allyl Chloride	4.36	41	282153	2.534 ppbv #	19
23) Vinyl Acetate	5.08	43	346261	1.582 ppbv #	52
25) Ethyl Acetate	5.70	43	2120676	6.493 ppbv #	82
26) Hexane	5.70	57	2603248	16.025 ppbv #	51
27) Carbon Disulfide	4.56	76	6532	0.040 ppbv #	55
29) Chloroform	5.77	83	180896	0.690 ppbv	98
30) Cyclohexane	7.15	84	3039	0.021 ppbv #	1
31) cis-1,2-Dichloroethene	5.69	61	38986	0.249 ppbv #	25
34) 2-Butanone	5.26	43	353826	2.332 ppbv	96
35) Carbon Tetrachloride	7.03	117	10465	0.042 ppbv #	80
36) Benzene	6.91	78	106915	0.334 ppbv	93
37) 1,2-Dichloroethane	6.33	62	5828	0.031 ppbv #	81
39) 1,2-Dichloropropane	7.19	63	959603	7.841 ppbv #	24
41) Tetrahydrofuran	5.70	42	965783	13.080 ppbv #	50
43) Methyl Methacrylate	8.03	69	9125	0.083 ppbv #	1
44) 2,2,4-Trimethylpentane	7.89	57	132055	0.246 ppbv #	85
50) 4-Methyl-2-Pentanone	8.77	43	39909	0.179 ppbv	100
51) 2-Hexanone	10.16	43	224775	2.018 ppbv #	95
52) Tetrachloroethene	11.25	164	57992	0.437 ppbv	88
53) Toluene	9.82	91	492648	1.293 ppbv	98
58) Ethyl Benzene	12.73	91	327480	0.656 ppbv #	86
59) m/p-Xylene	12.99	91	473522	1.115 ppbv	98
60) o-Xylene	13.71	91	177365	0.435 ppbv	96
61) Styrene	13.54	104	15195	0.071 ppbv #	15
64) n-propylbenzene	15.58	120	7063	0.048 ppbv #	1
65) tert-Butylbenzene	16.77	119	19218	0.037 ppbv #	1
66) Benzyl Chloride	17.01	91	886	0.039 ppbv #	36
67) sec-Butylbenzene	17.31	105	30137	0.043 ppbv #	56

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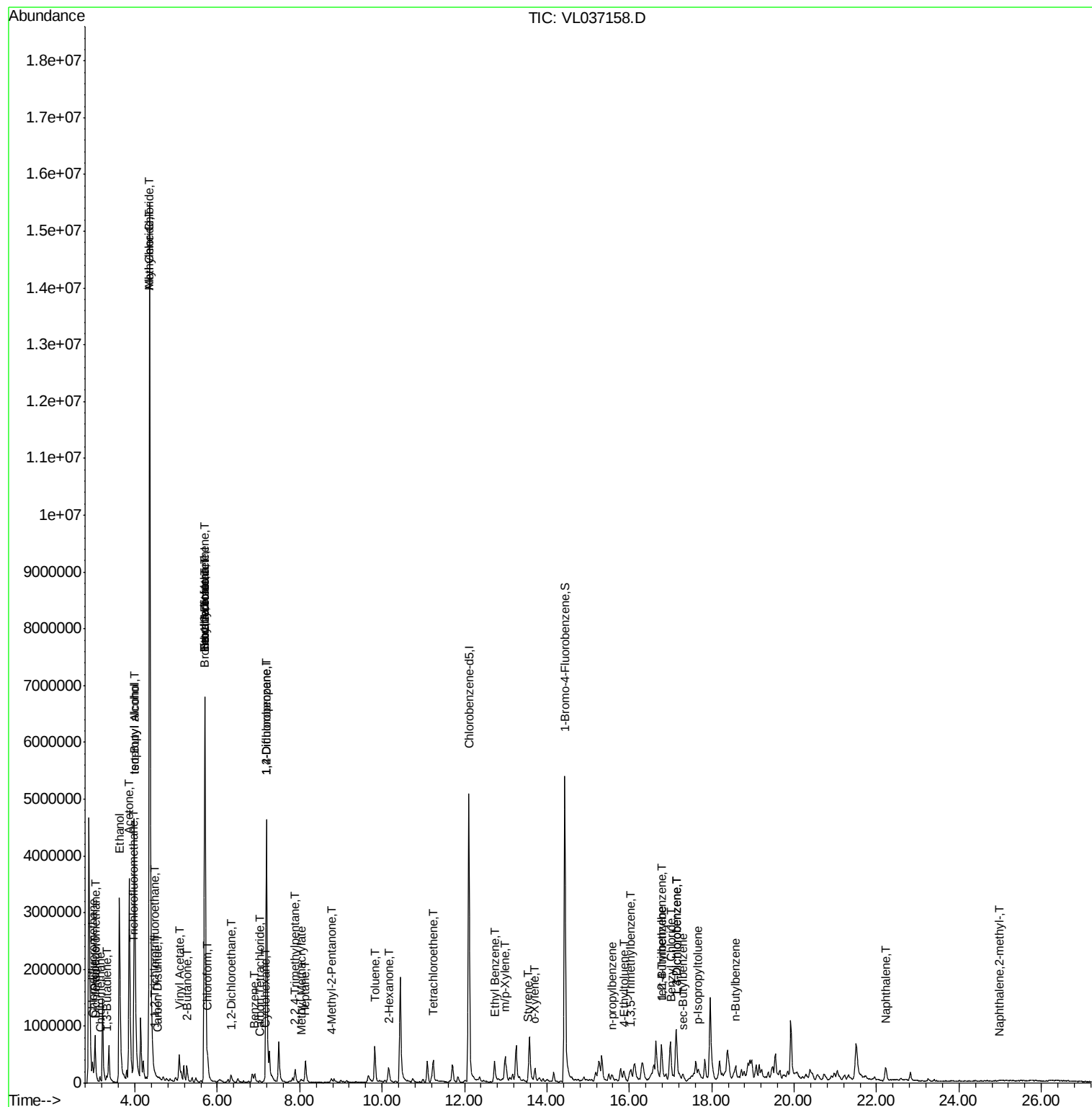
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) p-Isopropyltoluene	17.68	119	38841	0.066	ppbv #	47
70) n-Butylbenzene	18.57	91	73139	0.137	ppbv #	70
72) 4-Ethyltoluene	15.86	105	70375	0.149	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.01	105	67573	0.150	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.78	105	425497	0.931	ppbv #	73
75) 1,3-Dichlorobenzene	17.16	146	172985	0.615	ppbv	91
76) 1,4-Dichlorobenzene	17.16	146	172985	0.619	ppbv	90
79) Naphthalene	22.22	128	310151	1.128	ppbv	95
80) Naphthalene,2-methyl-	24.98	142	6554	0.098	ppbv #	76

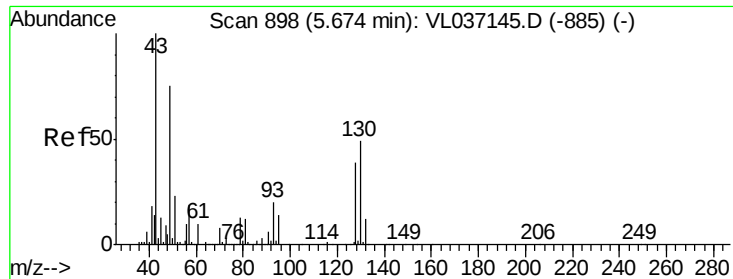
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

ClientSampled :

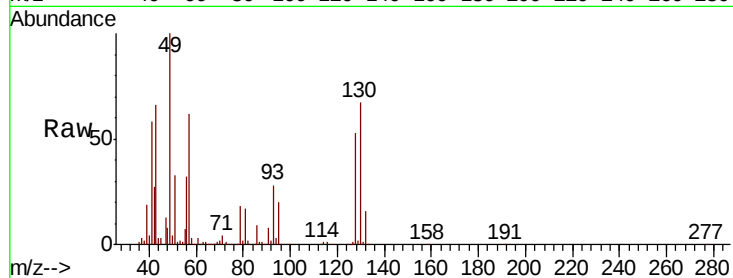
Tot Ion: 49 Resp: 1393097

Ion Ratio Lower Upper

49 100

128 55.1 28.8 86.5

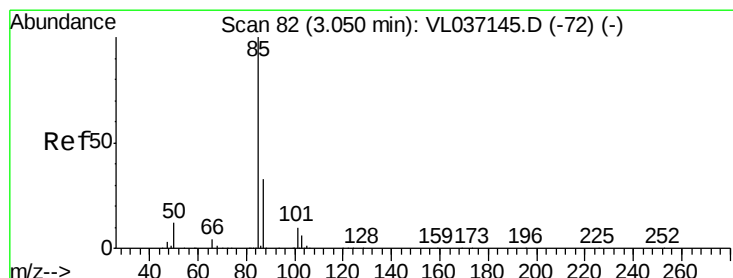
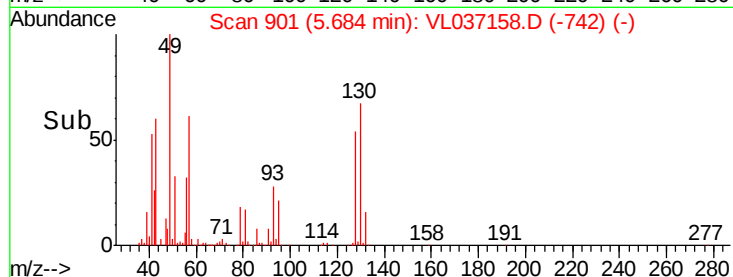
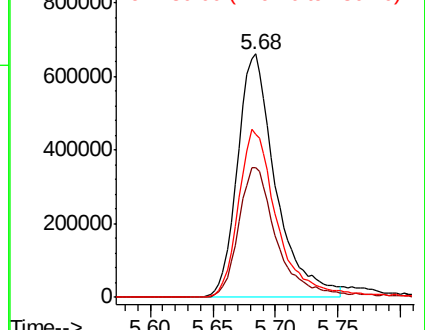
130 72.1 36.0 108.0



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



#2

Dichlorodifluoromethane

Concen: 0.254 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL037158.D

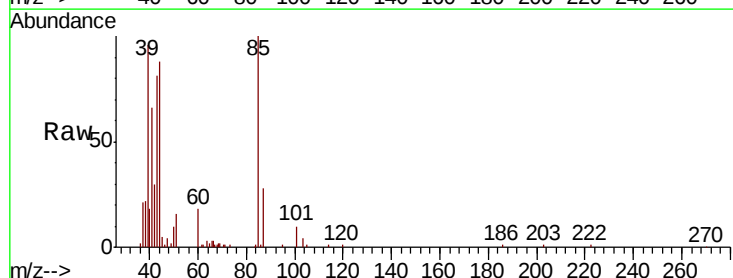
Acq: 15 Jun 2021 15:48

Tgt Ion: 85 Resp: 56386

Ion Ratio Lower Upper

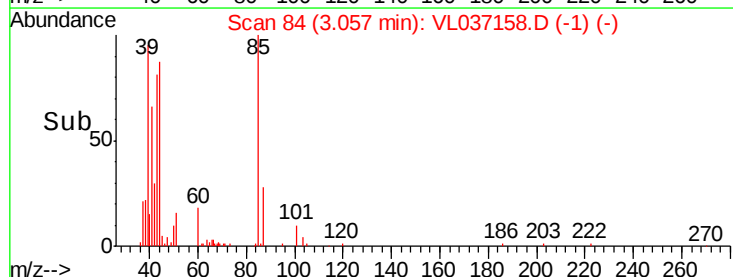
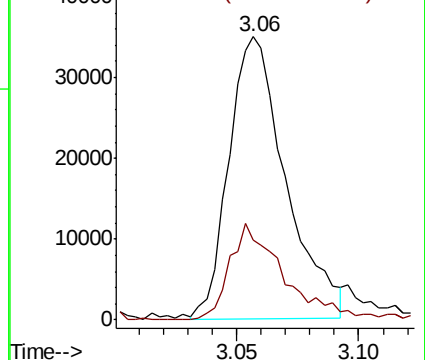
85 100

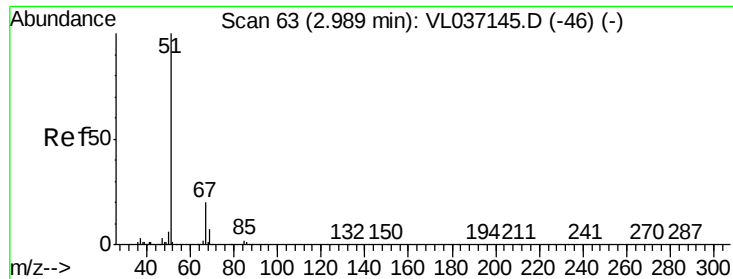
87 28.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

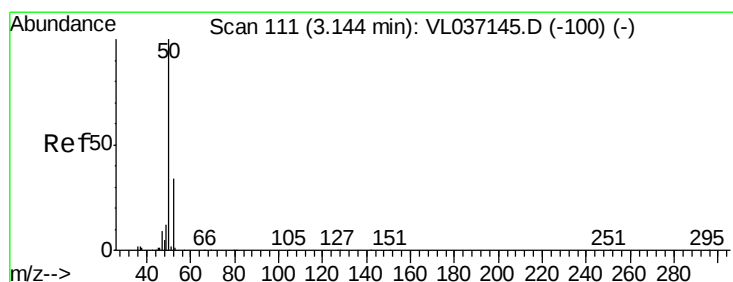
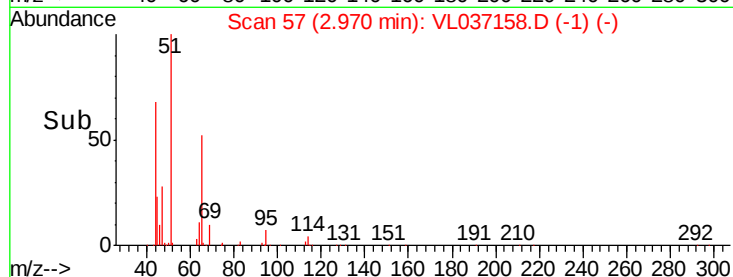
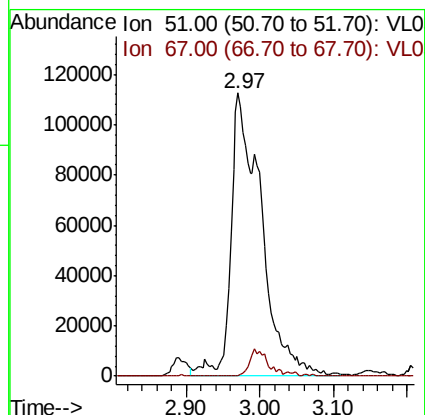
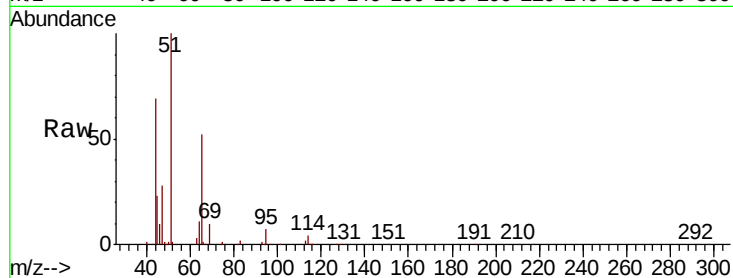




#3
Chlorodifluoromethane
Concen: 1.222 ppbv
RT: 2.97 min Scan# 57
Delta R.T. -0.02 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

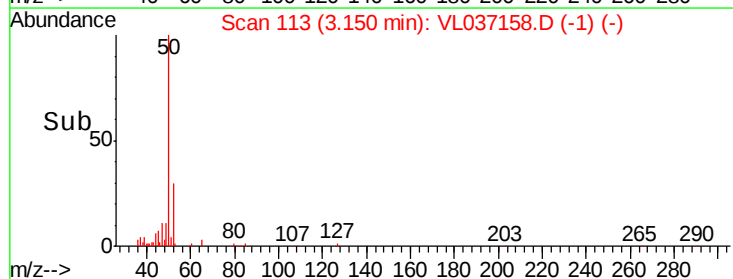
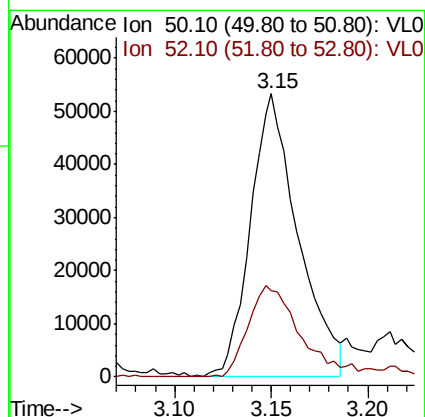
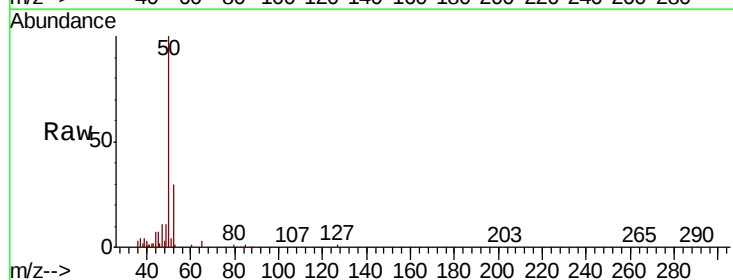
Instrument :
MSVOA_L
ClientSampleId :

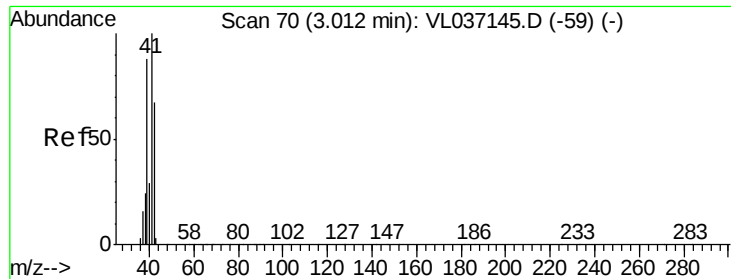
Tot Ion: 51 Resp: 319417
Ion Ratio Lower Upper
51 100
67 6.5 15.9 23.9#



#4
Chloromethane
Concen: 1.031 ppbv
RT: 3.15 min Scan# 113
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

Tgt Ion: 50 Resp: 91837
Ion Ratio Lower Upper
50 100
52 31.6 27.4 41.2





#9

Propene

Concen: 2.957 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

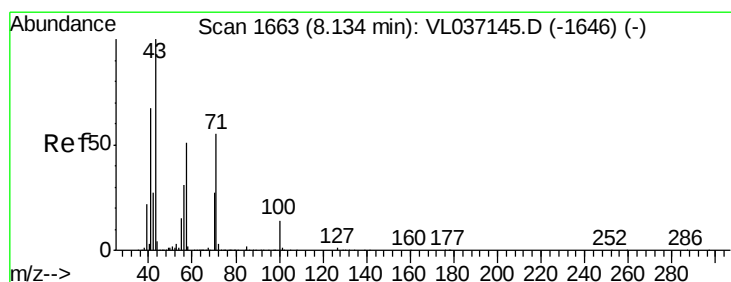
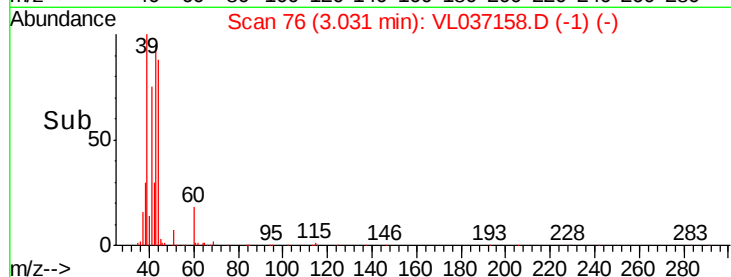
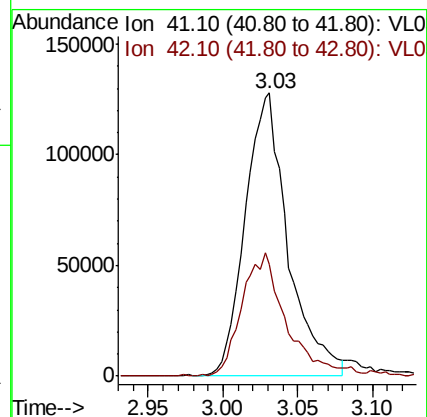
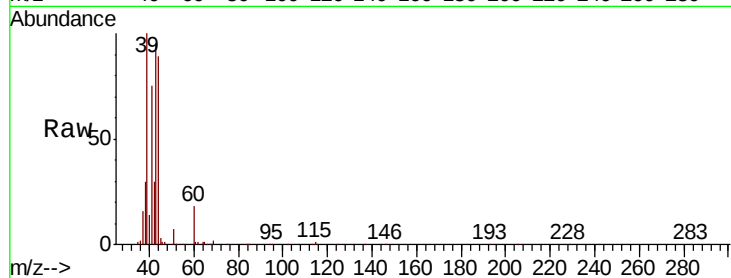
ClientSampled :

Tot Ion: 41 Resp: 254921

Ion Ratio Lower Upper

41 100

42 46.4 53.8 80.8#



#10

Heptane

Concen: 0.875 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.01 min

Lab File: VL037158.D

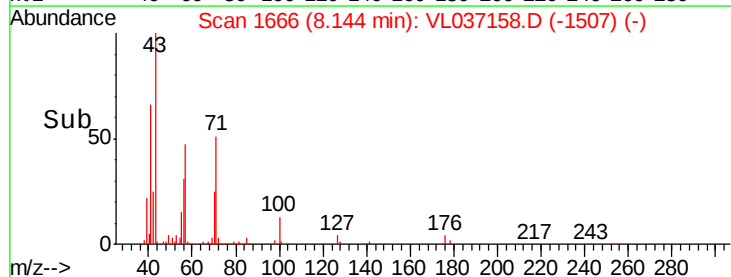
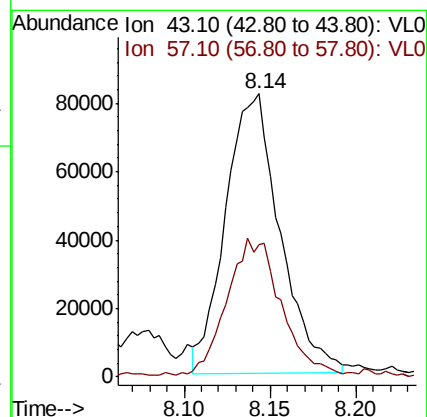
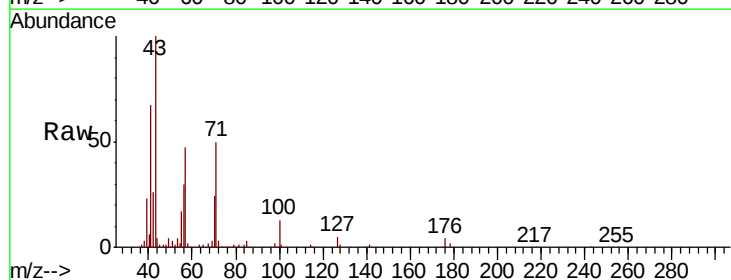
Acq: 15 Jun 2021 15:48

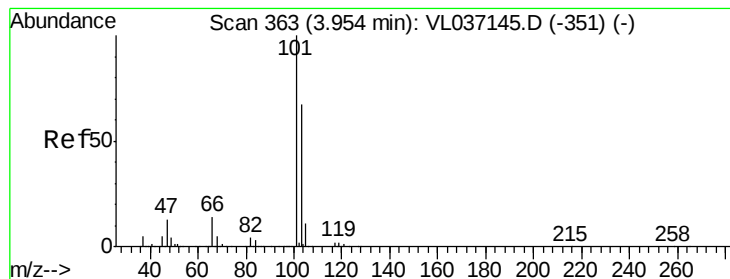
Tgt Ion: 43 Resp: 179912

Ion Ratio Lower Upper

43 100

57 52.0 40.5 60.7





#11

Trichlorofluoromethane

Concen: 0.154 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

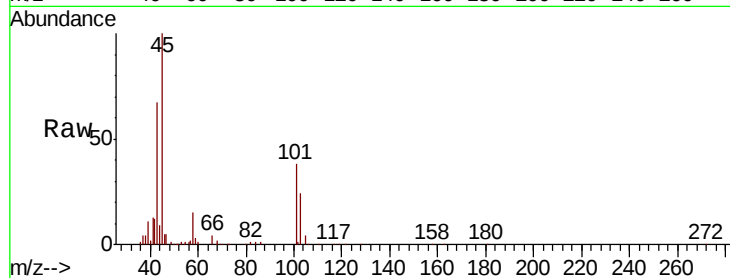
ClientSampleId :

Tot Ion:101 Resp: 38680

Ion Ratio Lower Upper

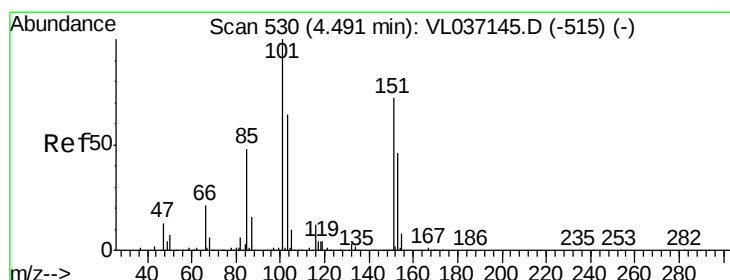
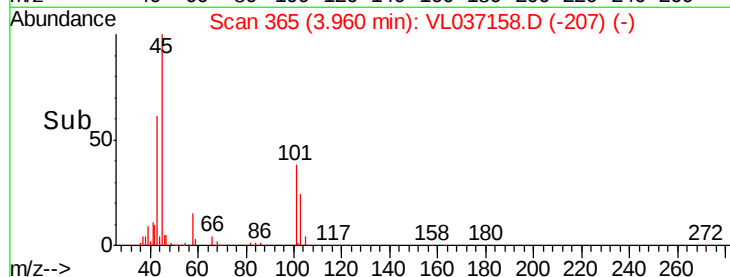
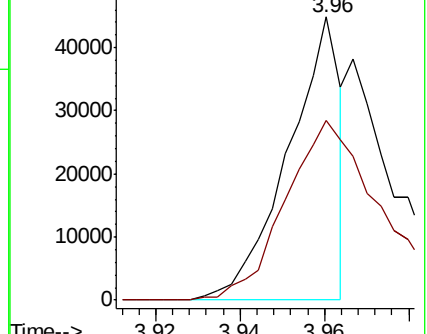
101 100

103 63.6 53.6 80.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.046 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.01 min

Lab File: VL037158.D

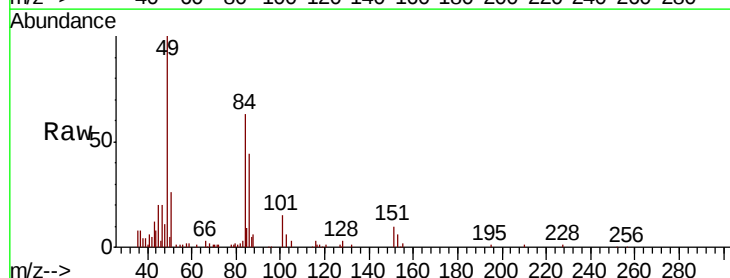
Acq: 15 Jun 2021 15:48

Tgt Ion:101 Resp: 7875

Ion Ratio Lower Upper

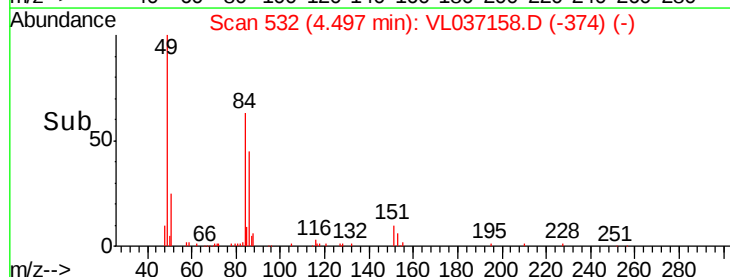
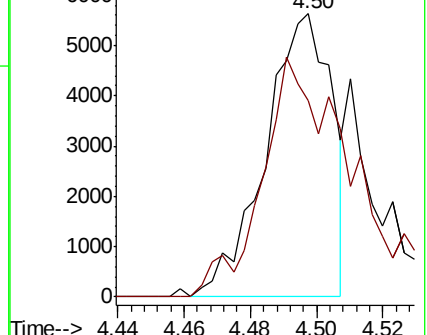
101 100

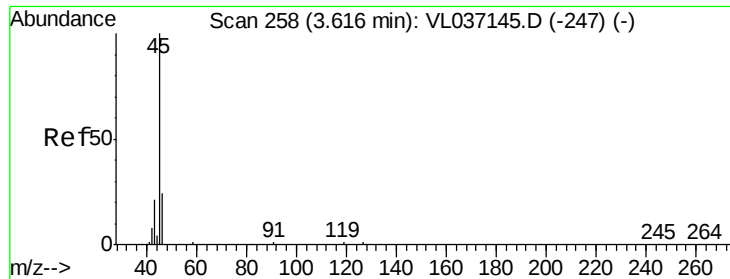
151 117.1 60.5 90.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 381.382 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

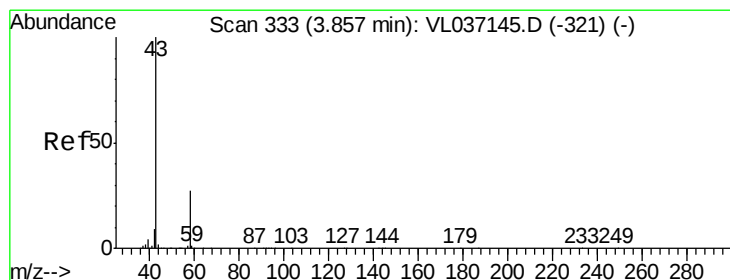
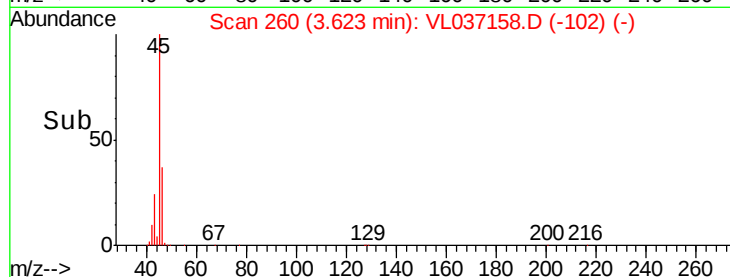
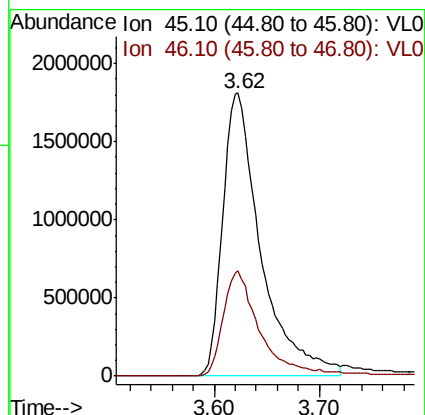
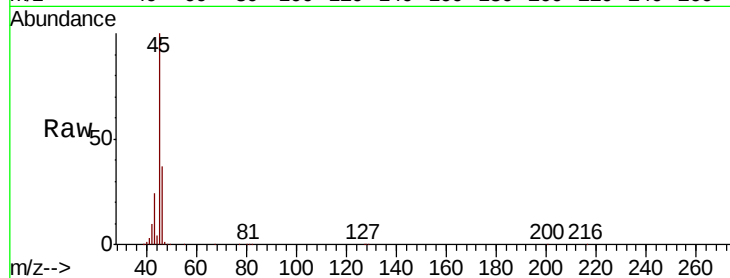
ClientSampleId :

Tot Ion: 45 Resp: 4542350

Ion Ratio Lower Upper

45 100

46 37.7 15.4 61.8



#15

Acetone

Concen: 28.823 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL037158.D

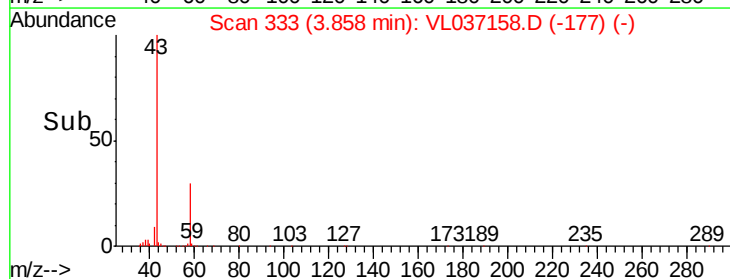
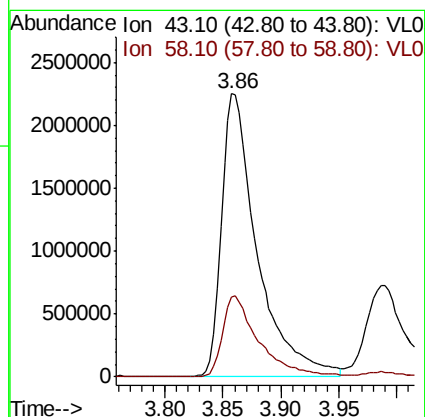
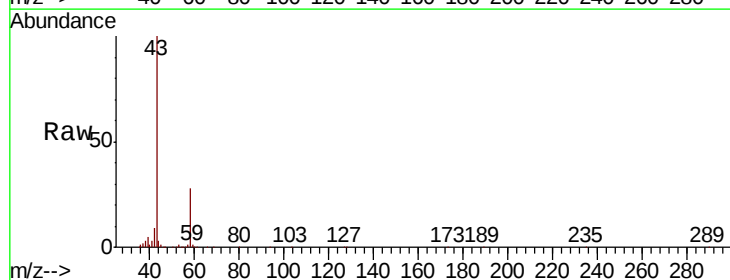
Acq: 15 Jun 2021 15:48

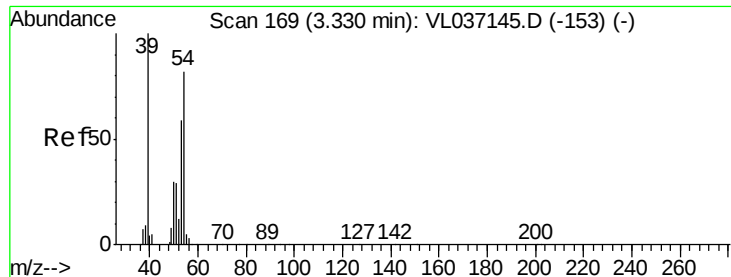
Tgt Ion: 43 Resp: 4804780

Ion Ratio Lower Upper

43 100

58 29.3 23.0 34.6

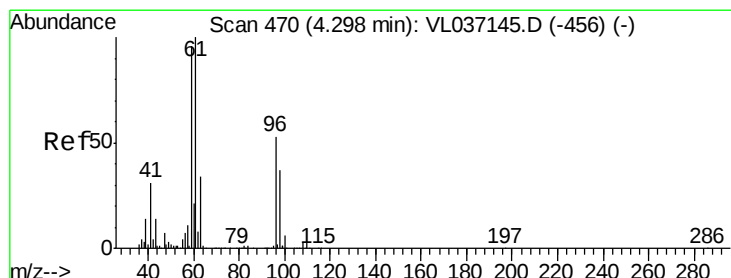
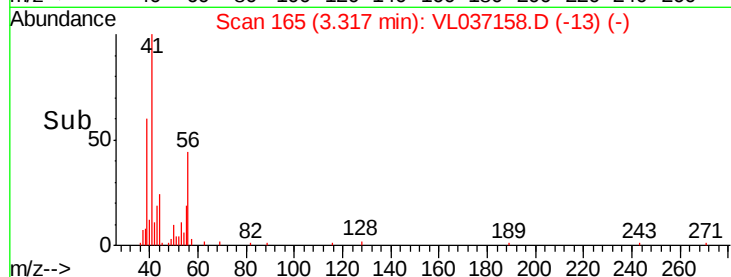
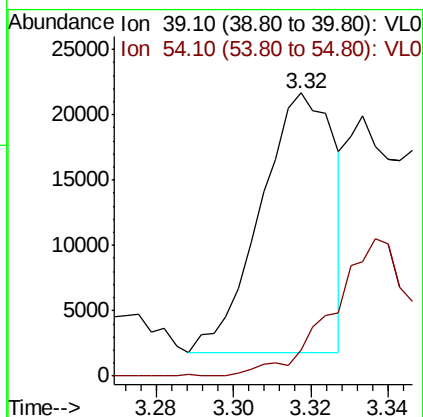
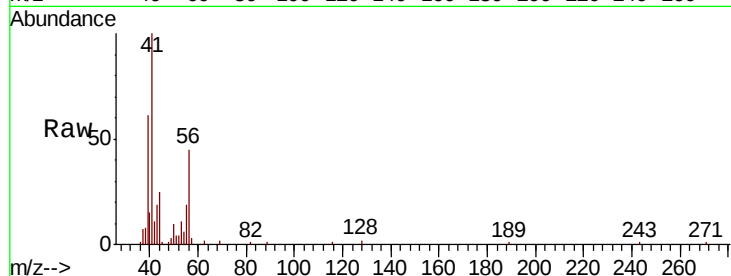




#16
1,3-Butadiene
Concen: 0.293 ppbv
RT: 3.32 min Scan# 165
Delta R.T. -0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

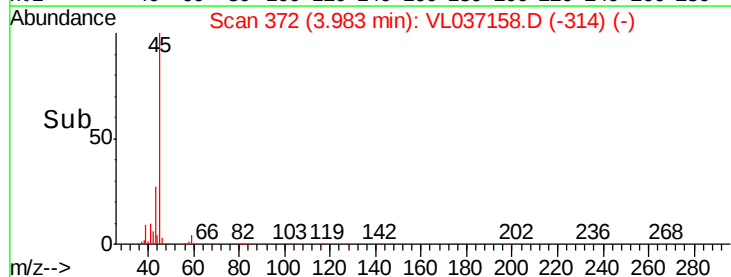
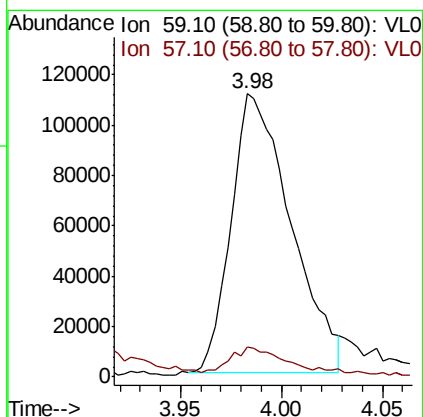
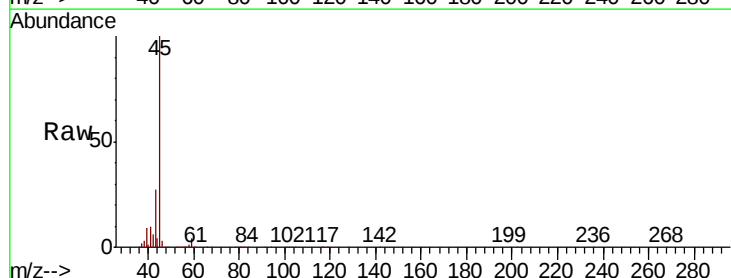
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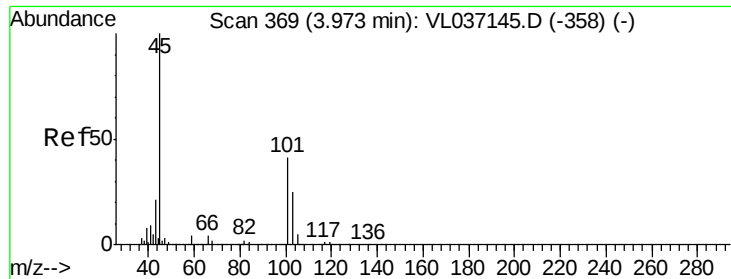
Tot Ion: 39 Resp: 26366
Ion Ratio Lower Upper
39 100
54 85.2 61.8 92.6



#17
tert-Butyl alcohol
Concen: 1.599 ppbv
RT: 3.98 min Scan# 372
Delta R.T. -0.31 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

Tgt Ion: 59 Resp: 230646
Ion Ratio Lower Upper
59 100
57 10.8 8.8 13.2



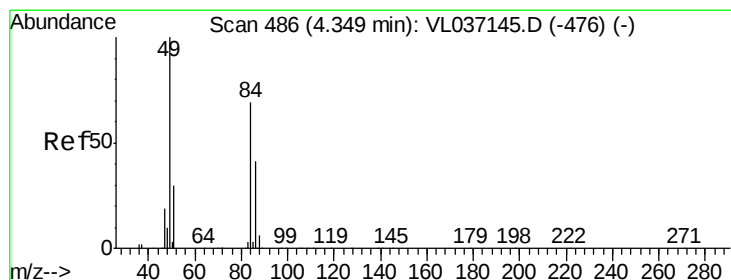
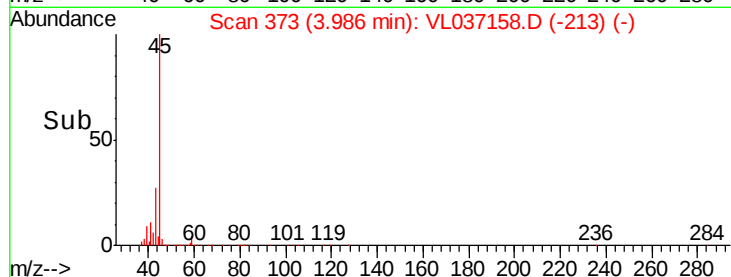
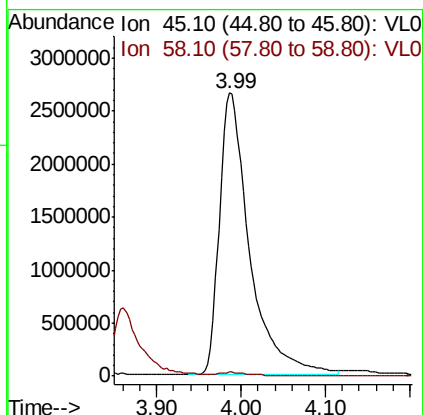
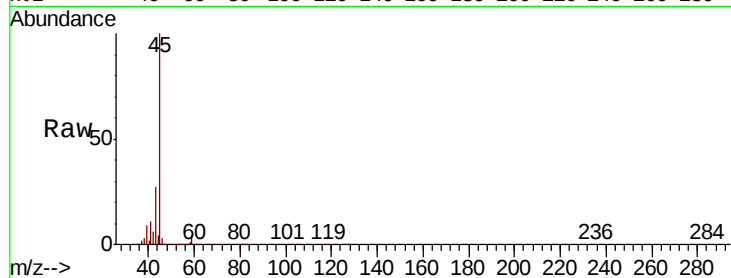


#19

Isopropyl Alcohol
 Concen: 72.535 ppbv
 RT: 3.99 min Scan# 373
 Delta R.T. 0.01 min
 Lab File: VL037158.D
 Acq: 15 Jun 2021 15:48

Instrument :
 MSVOA_L
 ClientSampleId :

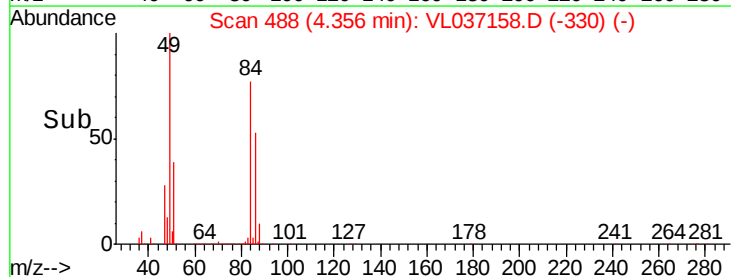
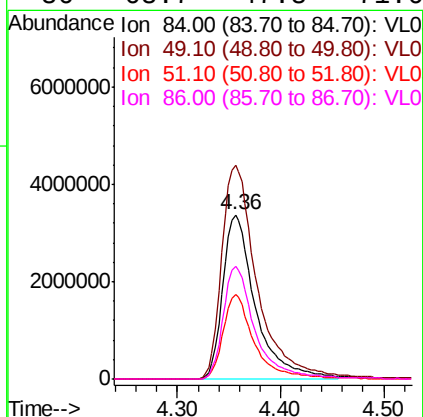
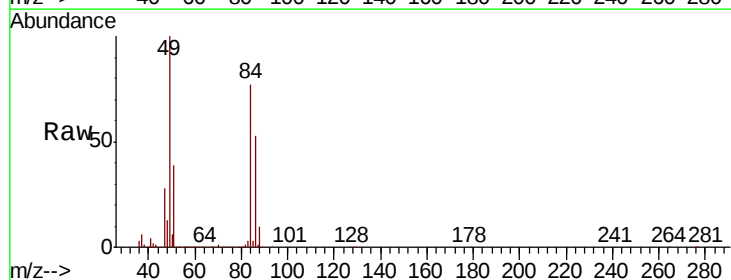
Tot Ion: 45 Resp: 6635211
 Ion Ratio Lower Upper
 45 100
 58 1.7 1.4 2.2

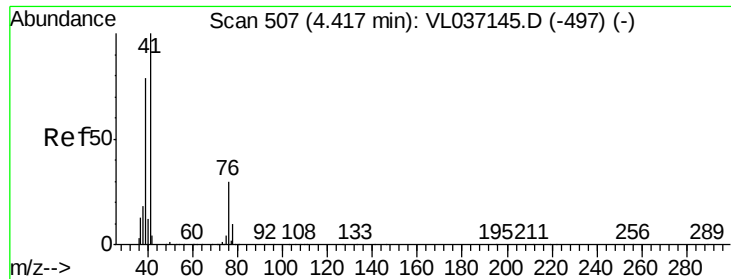


#20

Methylene Chloride
 Concen: 102.673 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.01 min
 Lab File: VL037158.D
 Acq: 15 Jun 2021 15:48

Tgt Ion: 84 Resp: 7459185
 Ion Ratio Lower Upper
 84 100
 49 130.3 115.3 172.9
 51 51.3 34.2 51.4
 86 68.7 47.8 71.6

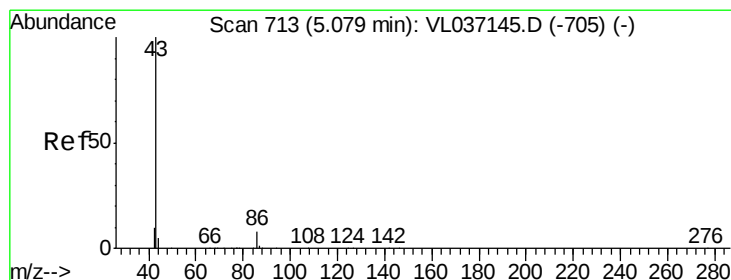
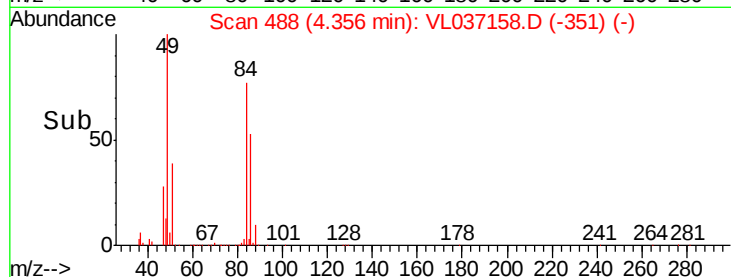
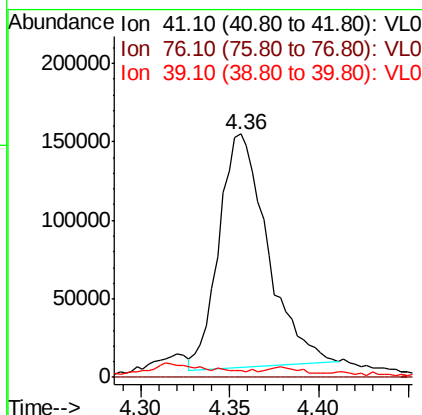
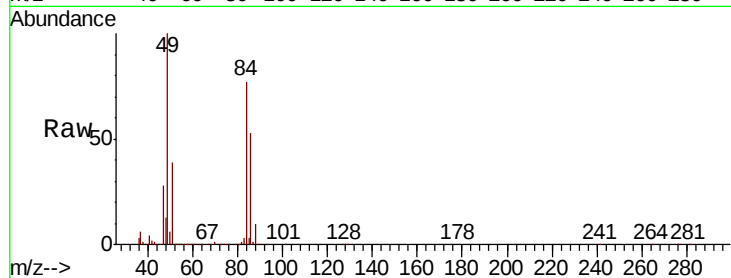




#21
Allvl Chloride
Concen: 2.534 ppbv
RT: 4.36 min Scan# 488
Delta R.T. -0.06 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

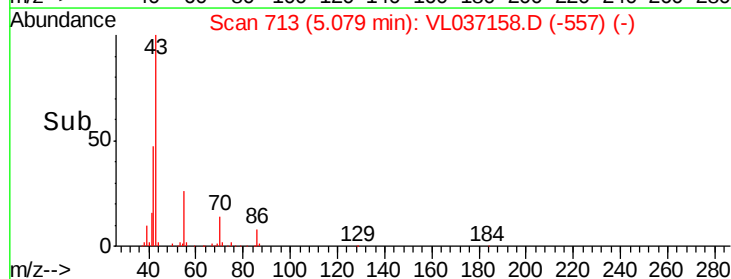
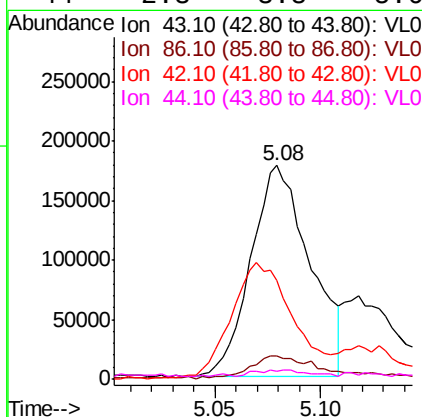
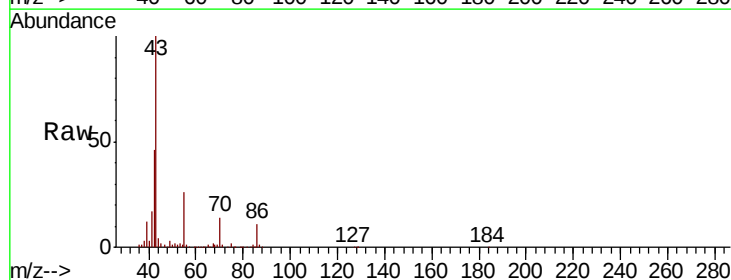
Instrument :
MSVOA_L
ClientSampleId :

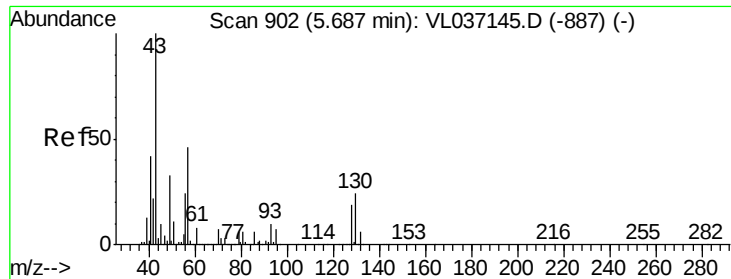
Tot Ion	Ratio	Lower	Upper
41	100		
76	2.8	25.2	37.8#
39	0.0	66.2	99.2#



#23
Vinyl Acetate
Concen: 1.582 ppbv
RT: 5.08 min Scan# 713
Delta R.T. 0.00 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

Tgt Ion	Ratio	Lower	Upper
43	100		
86	10.2	5.4	8.2#
42	45.1	8.6	12.8#
44	2.3	3.8	5.6#

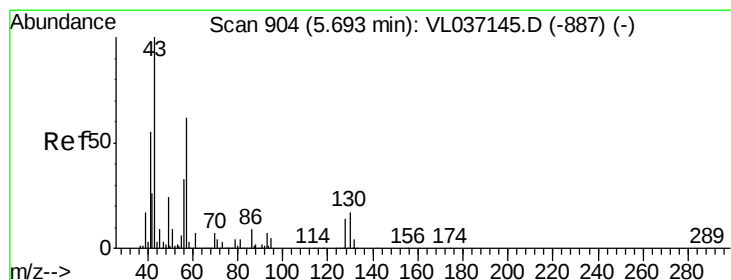
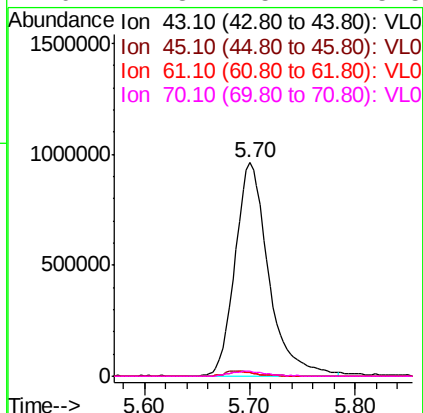
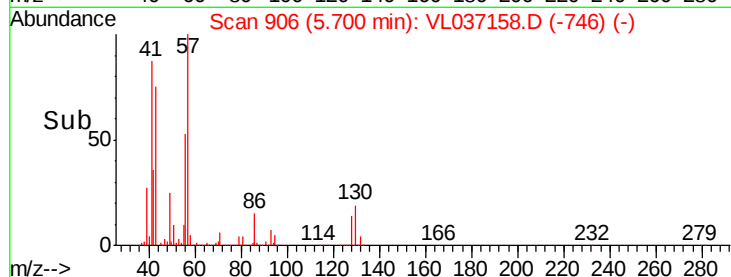
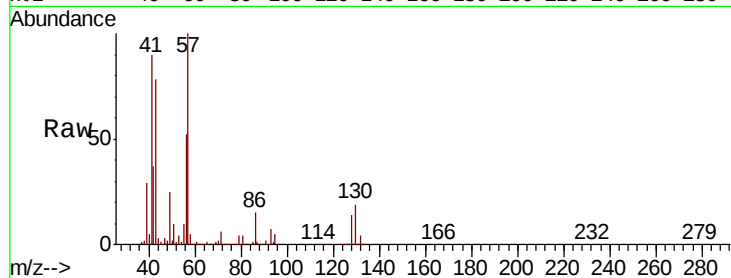




#25
Ethyl Acetate
Concen: 6.493 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

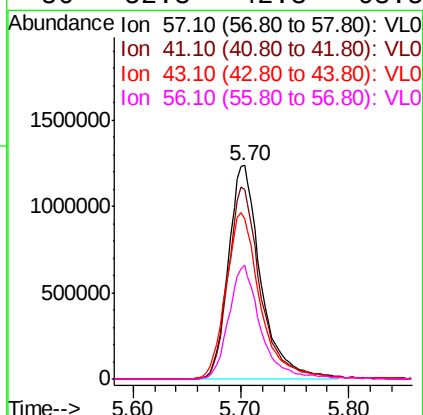
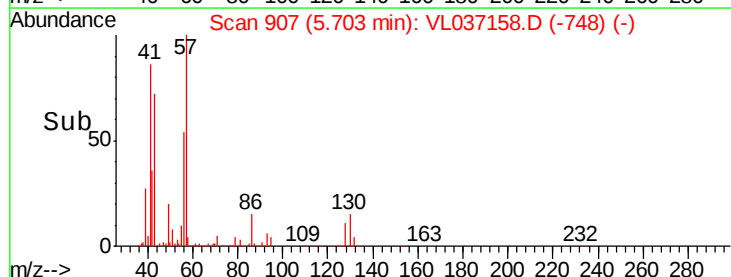
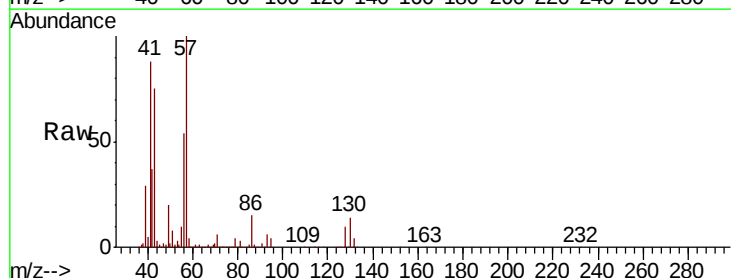
Instrument :
MSVOA_L
ClientSampled :

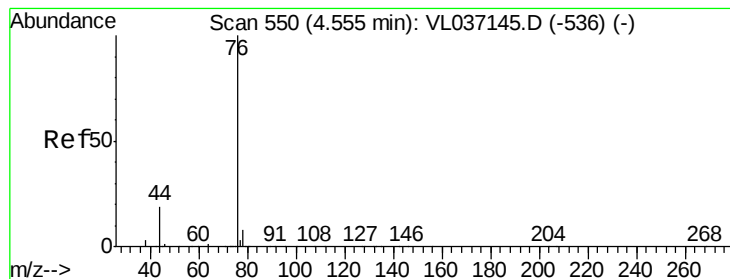
Tot Ion: 43 Resp: 2120676
Ion Ratio Lower Upper
43 100
45 2.6 7.8 11.8#
61 2.2 7.5 11.3#
70 2.8 5.7 8.5#



#26
Hexane
Concen: 16.025 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

Tgt Ion: 57 Resp: 2603248
Ion Ratio Lower Upper
57 100
41 90.0 73.6 110.4
43 82.5 168.8 253.2#
56 52.3 42.3 63.5





#27

Carbon Disulfide

Concen: 0.040 ppbv

RT: 4.56 min Scan# 553

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

ClientSampleId :

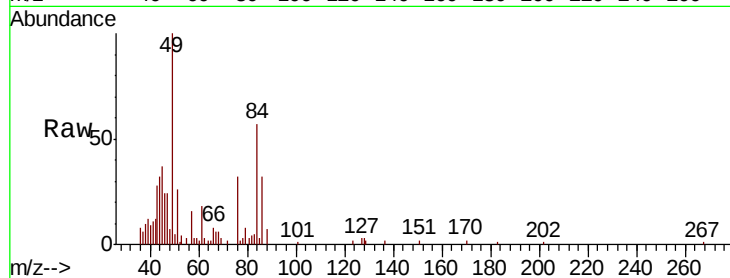
Tot Ion: 76 Resp: 6532

Ion Ratio Lower Upper

76 100

44 0.0 15.6 23.4#

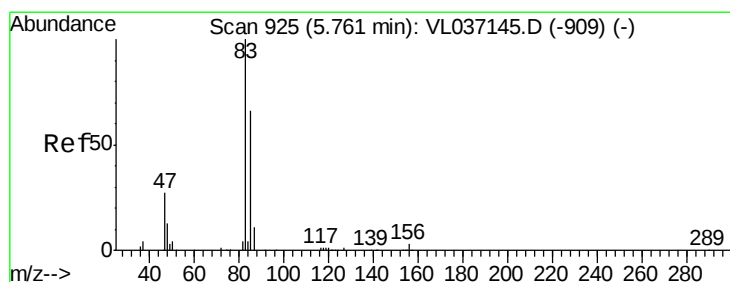
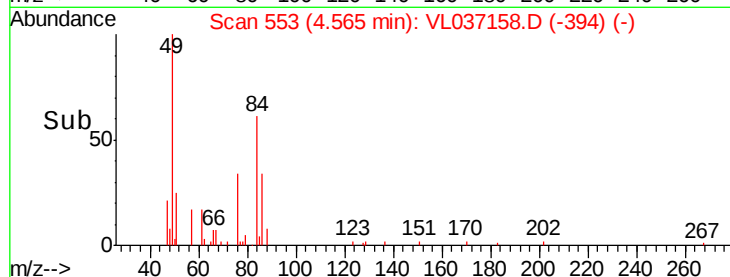
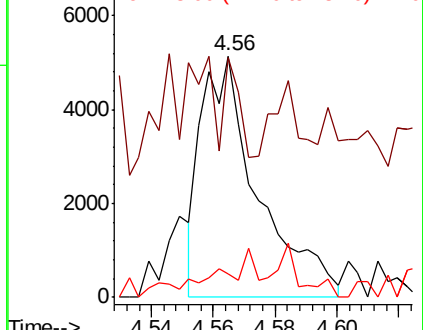
78 27.3 7.6 11.4#



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



#29

Chloroform

Concen: 0.690 ppbv

RT: 5.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VL037158.D

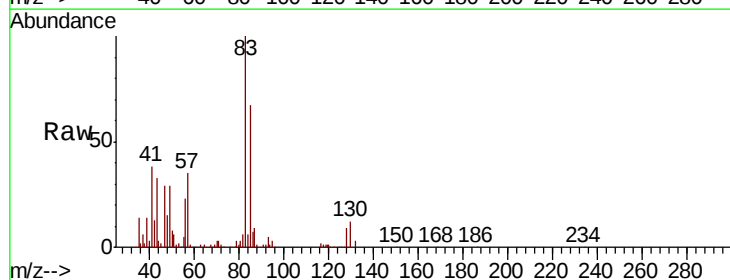
Acq: 15 Jun 2021 15:48

Tgt Ion: 83 Resp: 180896

Ion Ratio Lower Upper

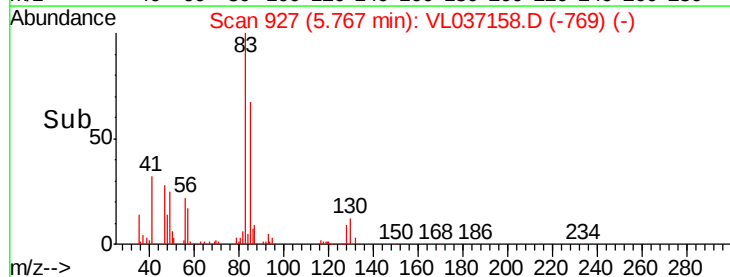
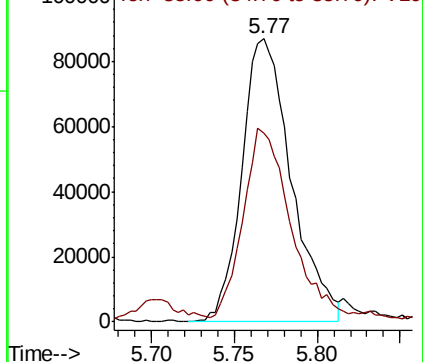
83 100

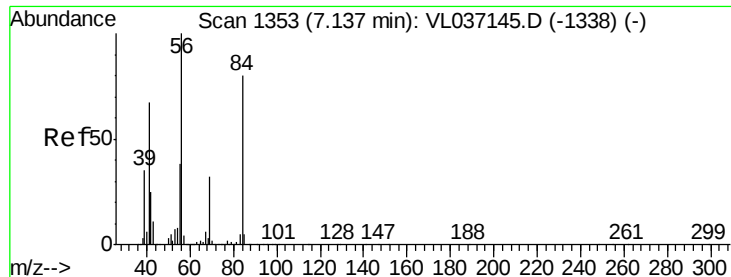
85 64.1 52.6 78.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

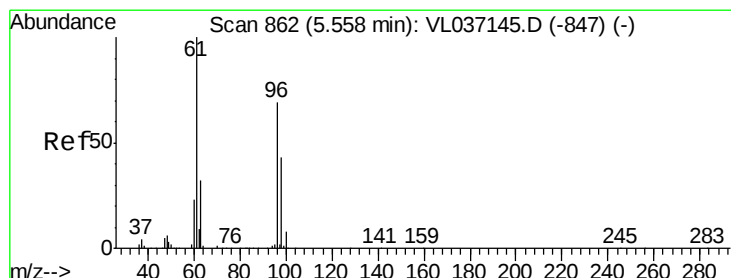
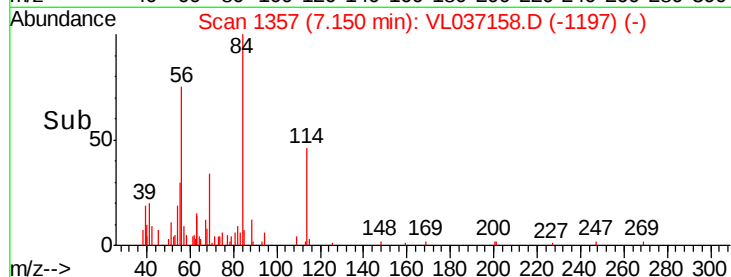
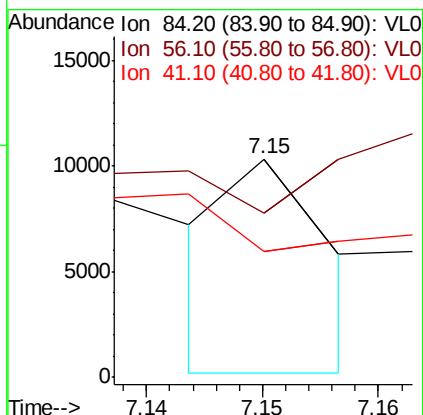
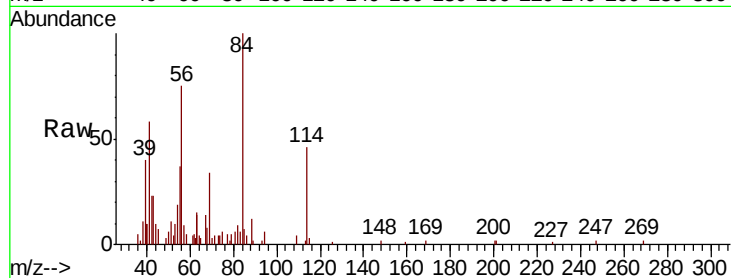




#30
Cvclohexane
Concen: 0.021 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

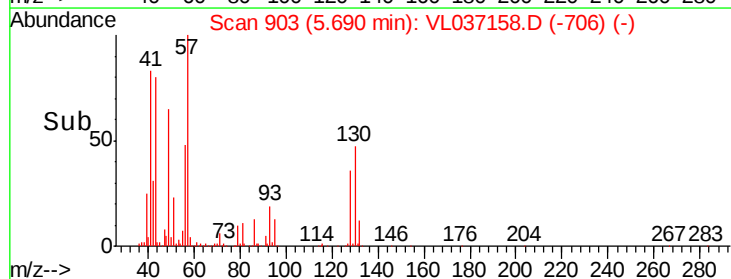
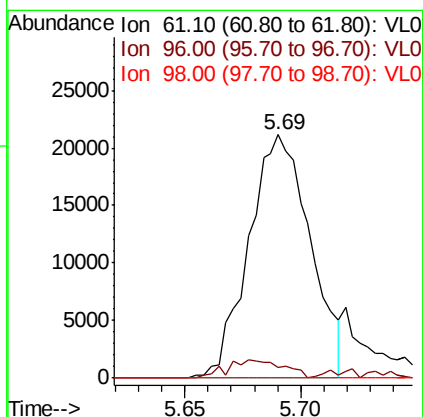
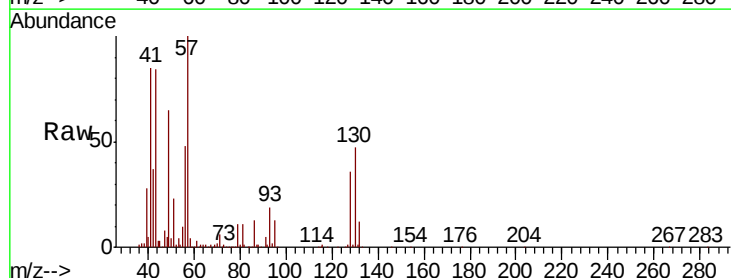
Instrument :
MSVOA_L
ClientSampleId :

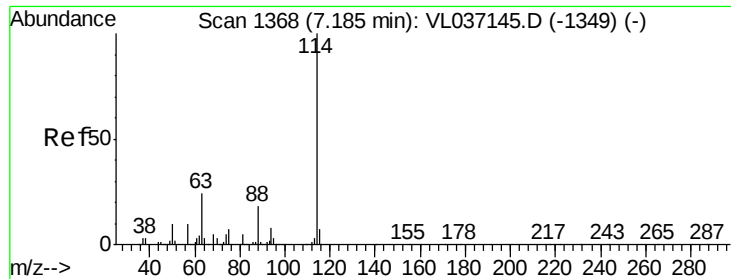
Tot Ion: 84 Resp: 3039
Ion Ratio Lower Upper
84 100
56 0.0 103.9 155.9#
41 735.5 66.5 99.7#



#31
cis-1,2-Dichloroethene
Concen: 0.249 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.13 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

Tgt Ion: 61 Resp: 38986
Ion Ratio Lower Upper
61 100
96 4.5 55.3 82.9#
98 0.0 34.7 52.1#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. 0.01 min

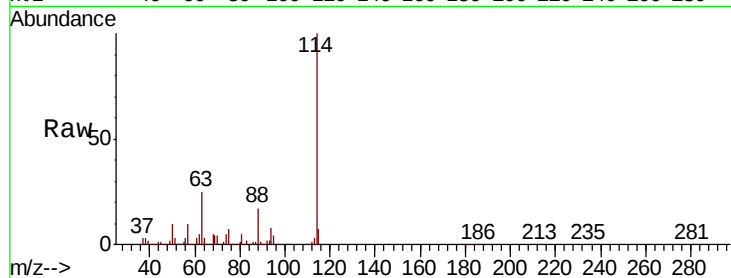
Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:114 Resp: 4039857

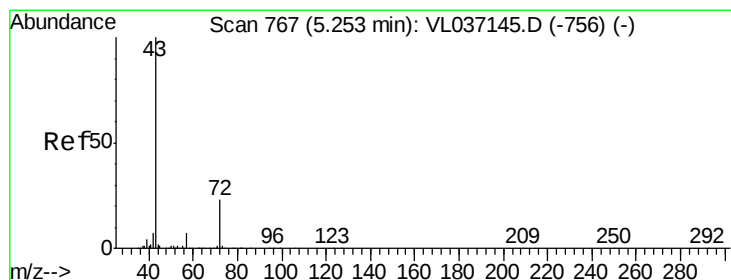
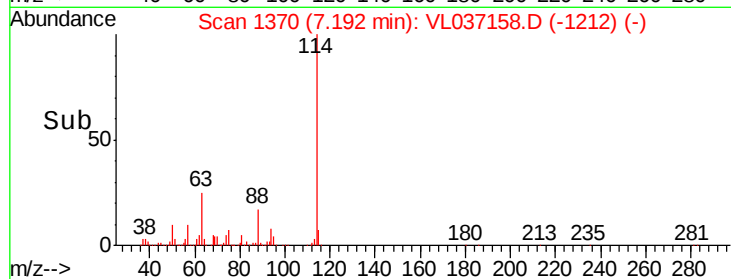
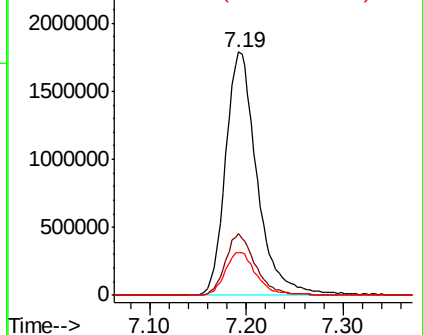
Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.8	29.6
88	17.9	14.3	21.5



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: 2.332 ppbv

RT: 5.26 min Scan# 769

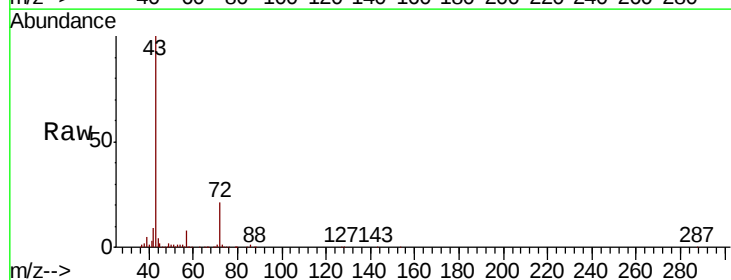
Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

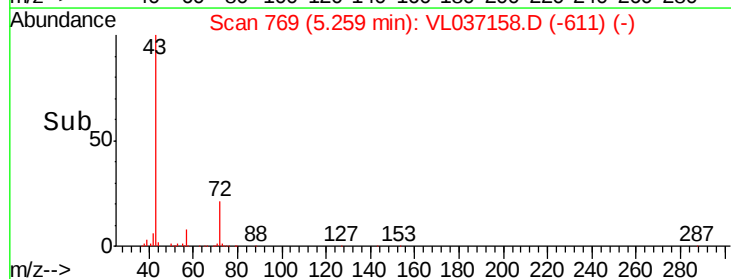
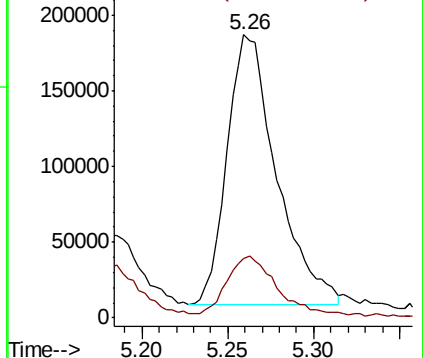
Tgt Ion: 43 Resp: 353826

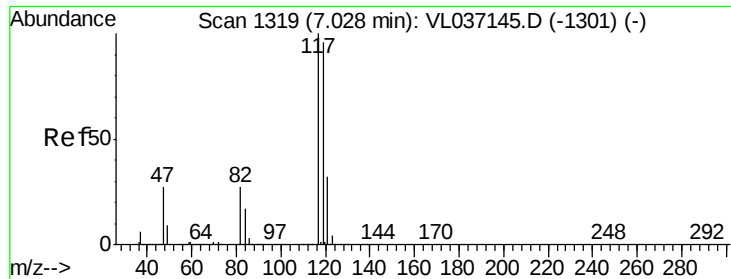
Ion	Ratio	Lower	Upper
43	100		
72	25.3	18.6	28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.042 ppbv

RT: 7.03 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

ClientSampleId :

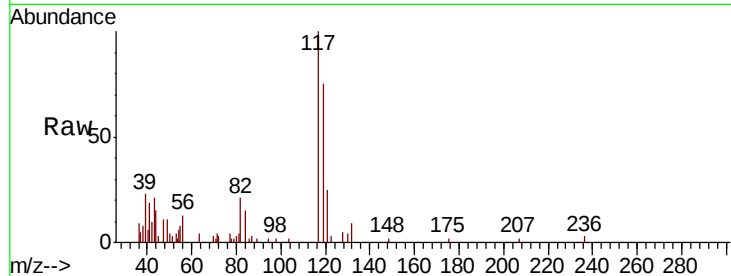
Tot Ion:117 Resp: 10465

Ion Ratio Lower Upper

117 100

119 74.6 77.0 115.4#

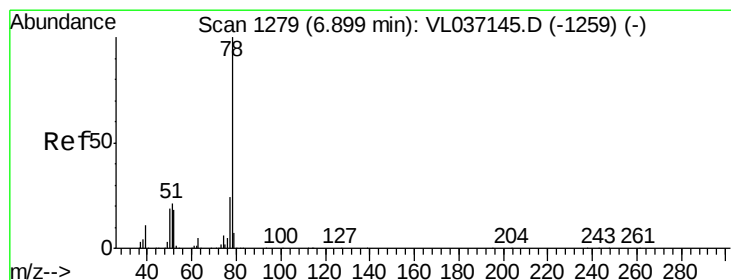
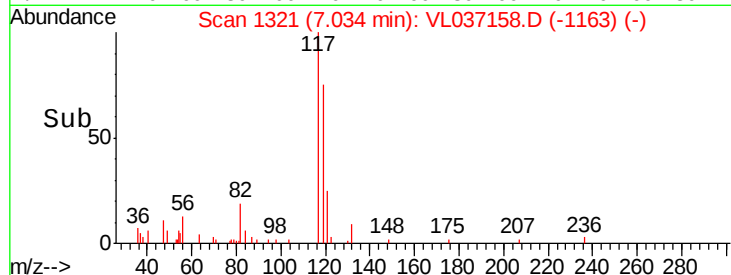
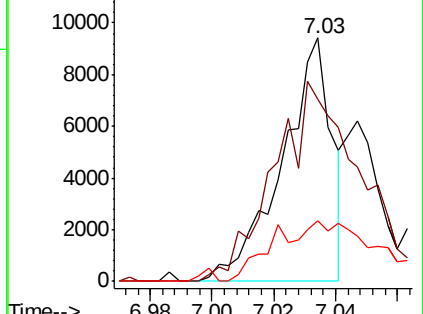
121 24.7 25.4 38.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.334 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

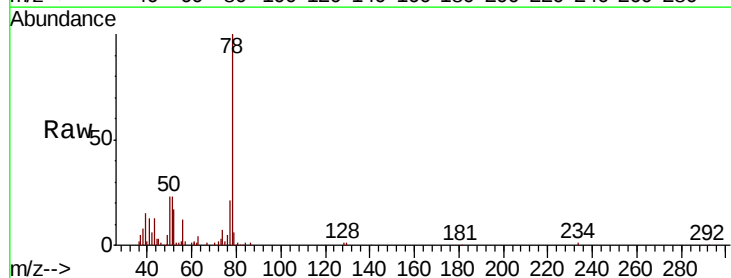
Tgt Ion: 78 Resp: 106915

Ion Ratio Lower Upper

78 100

77 21.0 19.5 29.3

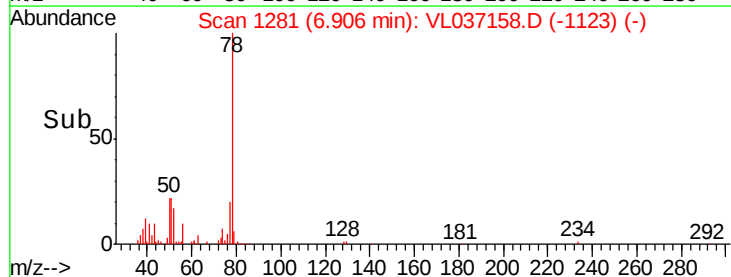
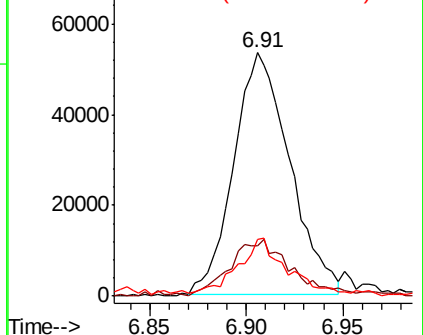
50 22.3 15.5 23.3

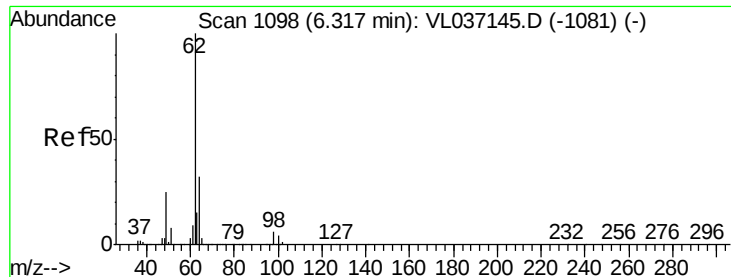


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.031 ppbv

RT: 6.33 min Scan# 1101

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

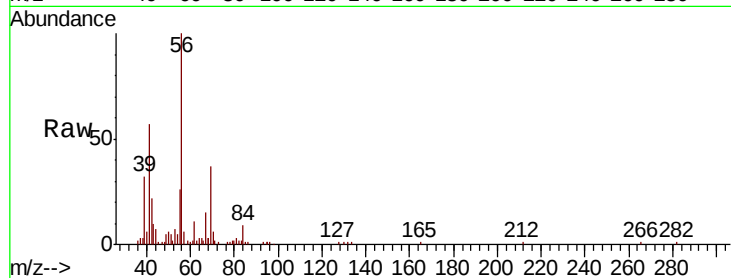
ClientSampleId :

Tot Ion: 62 Resp: 5828

Ion Ratio Lower Upper

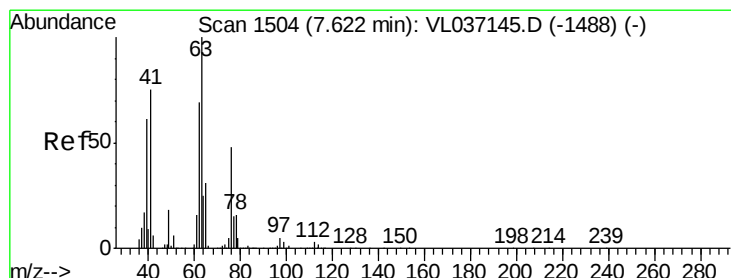
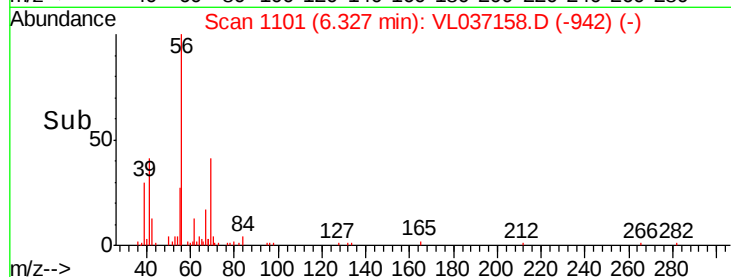
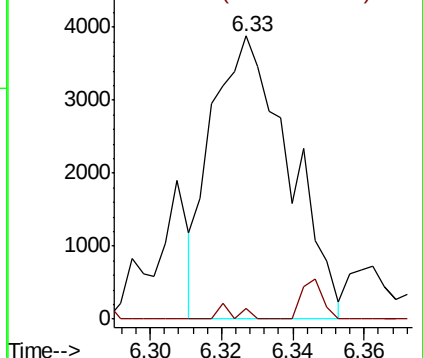
62 100

98 0.0 5.1 7.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#39

1,2-Dichloropropane

Concen: 7.841 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.43 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

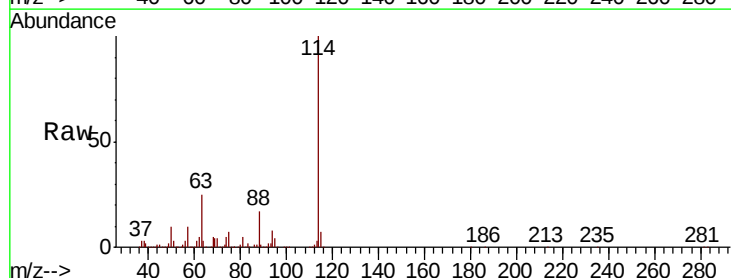
Tgt Ion: 63 Resp: 959603

Ion Ratio Lower Upper

63 100

41 0.0 60.0 90.0#

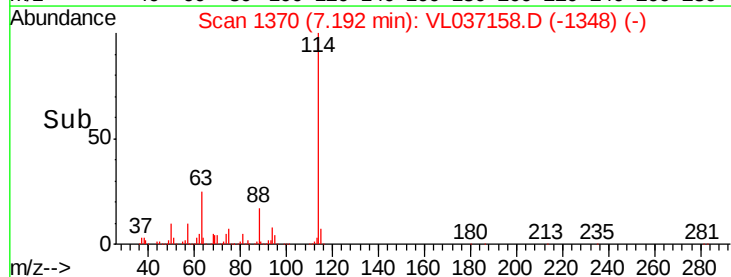
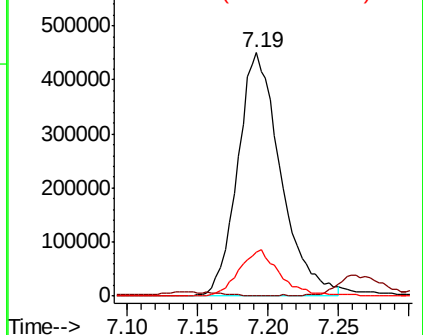
62 18.1 55.4 83.0#

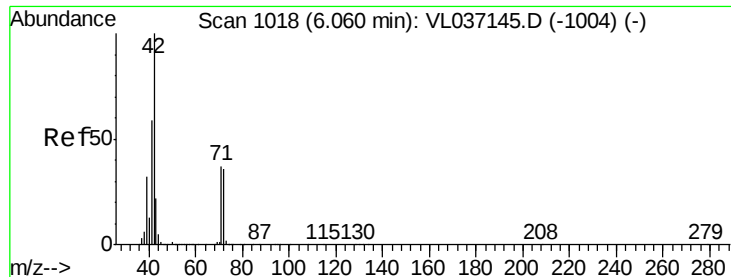


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

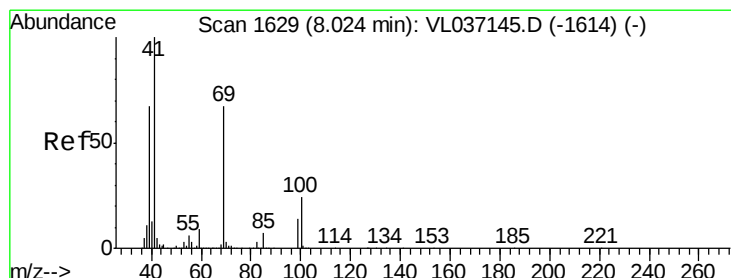
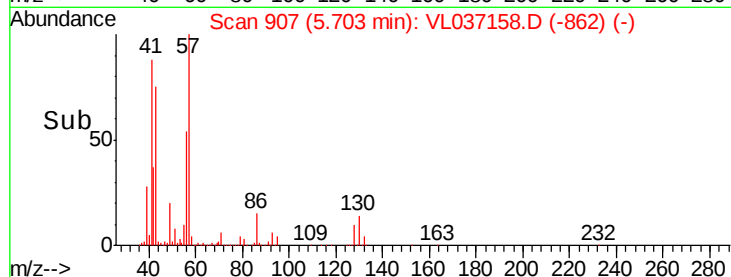
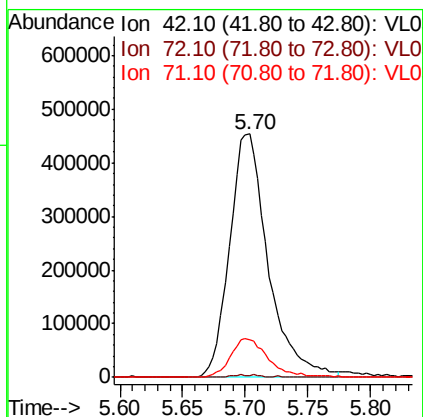
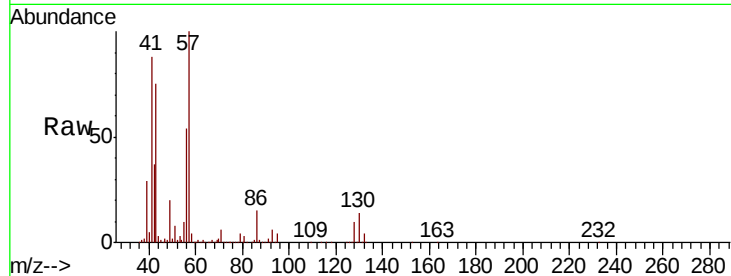




#41
Tetrahydrofuran
Concen: 13.080 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.36 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

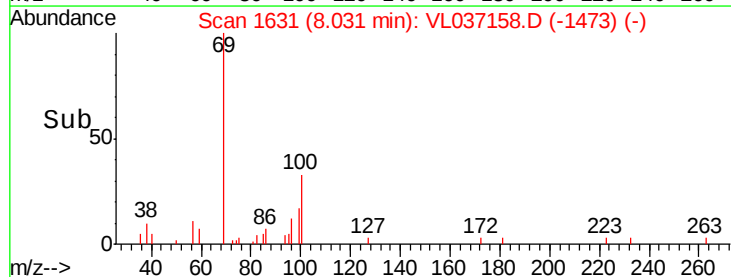
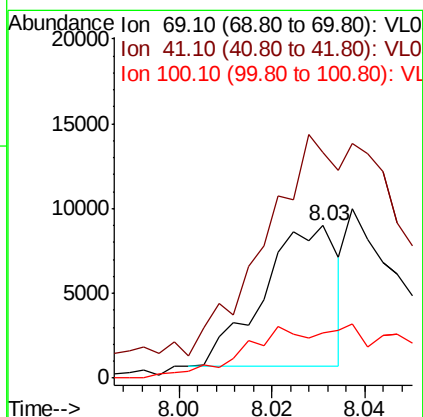
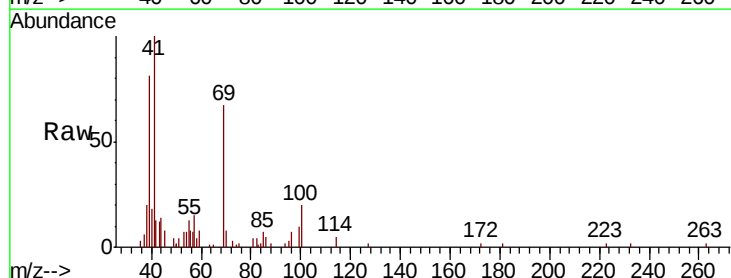
Instrument :
MSVOA_L
ClientSampled :

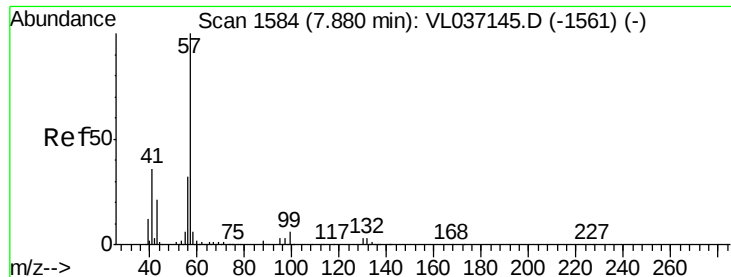
Tot Ion: 42 Resp: 965783
Ion Ratio Lower Upper
42 100
72 0.9 31.7 47.5#
71 16.1 31.0 46.6#



#43
Methyl Methacrylate
Concen: 0.083 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

Tgt Ion: 69 Resp: 9125
Ion Ratio Lower Upper
69 100
41 331.6 117.7 176.5#
100 0.0 27.9 41.9#





#44

2,2,4-Trimethylpentane

Concen: 0.246 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

ClientSampleId :

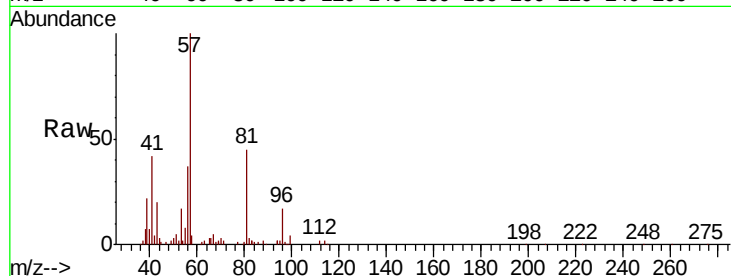
Tot Ion: 57 Resp: 132055

Ion Ratio Lower Upper

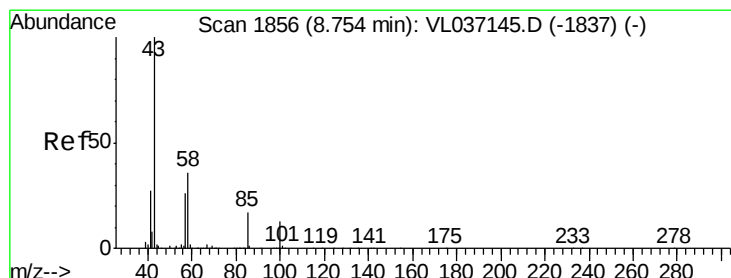
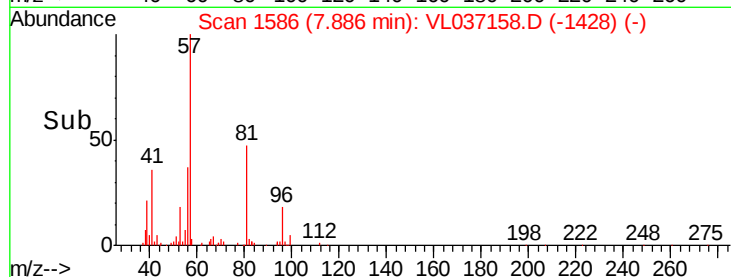
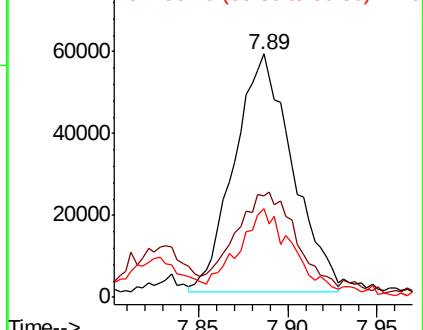
57 100

41 46.3 28.1 42.1#

56 37.2 25.4 38.2



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



#50

4-Methyl-2-Pentanone

Concen: 0.179 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.01 min

Lab File: VL037158.D

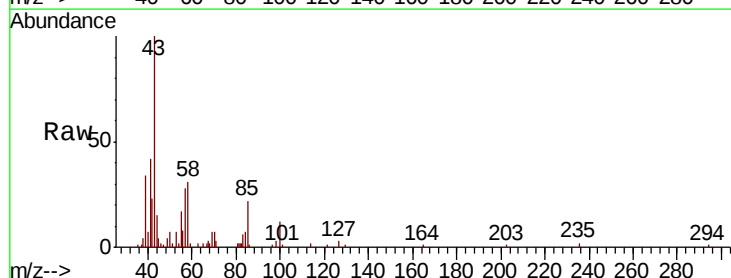
Acq: 15 Jun 2021 15:48

Tgt Ion: 43 Resp: 39909

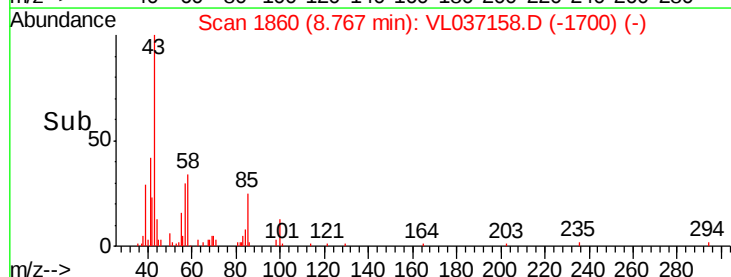
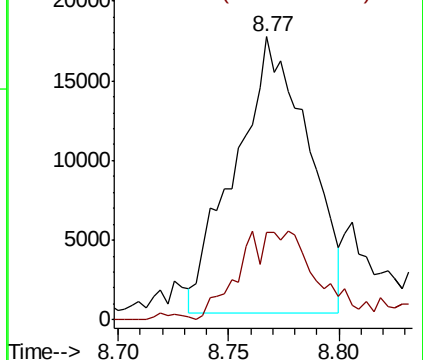
Ion Ratio Lower Upper

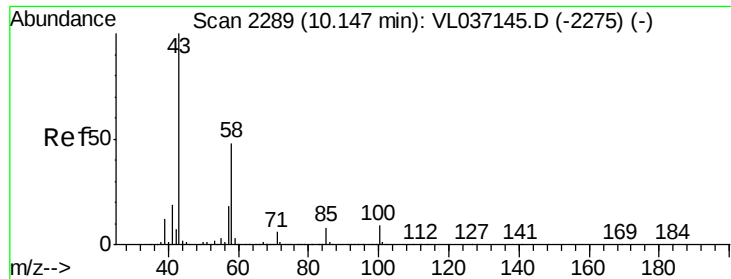
43 100

58 36.2 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

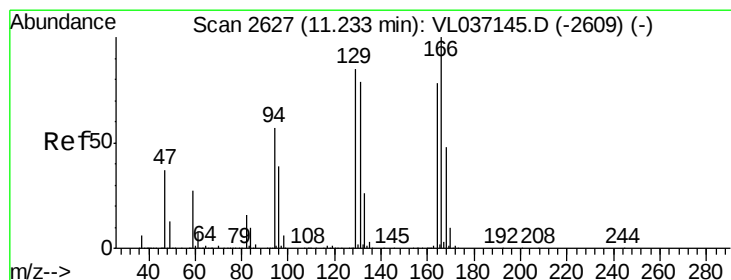
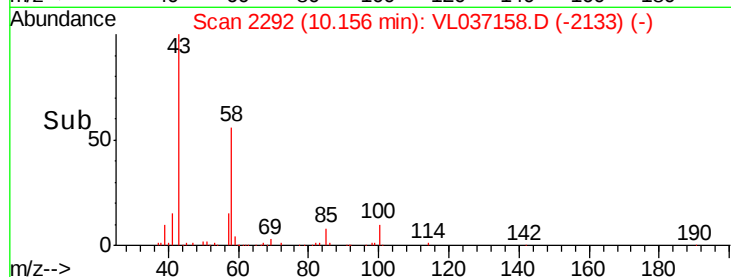
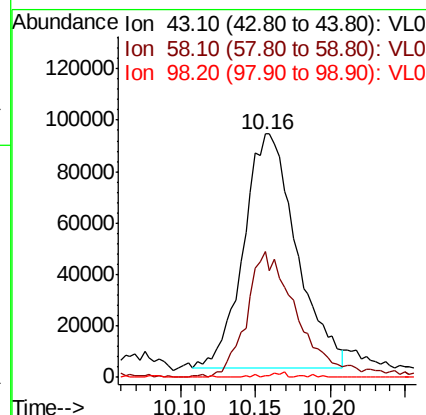
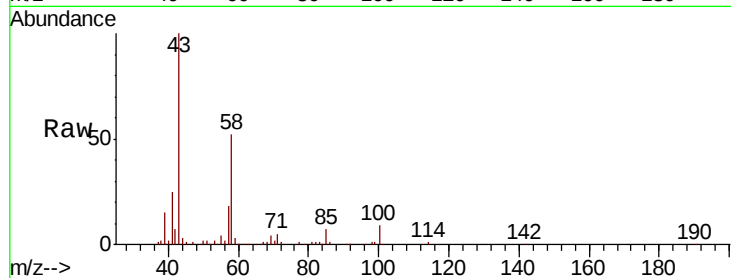




#51
2-Hexanone
Concen: 2.018 ppbv
RT: 10.16 min Scan# 2292
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

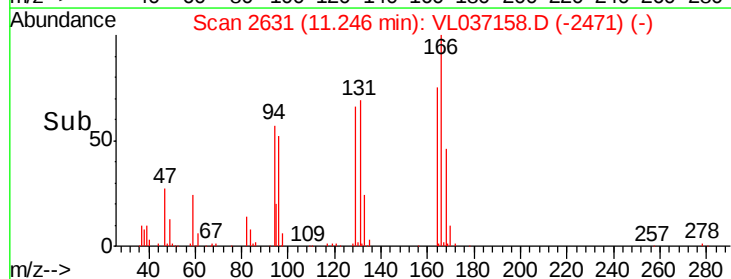
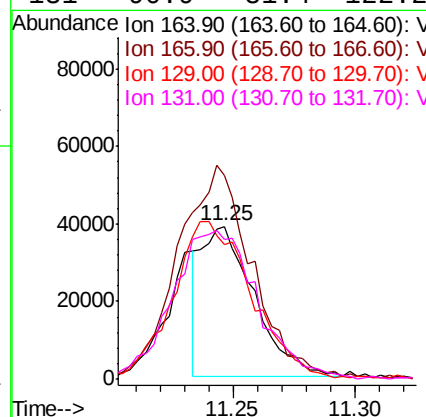
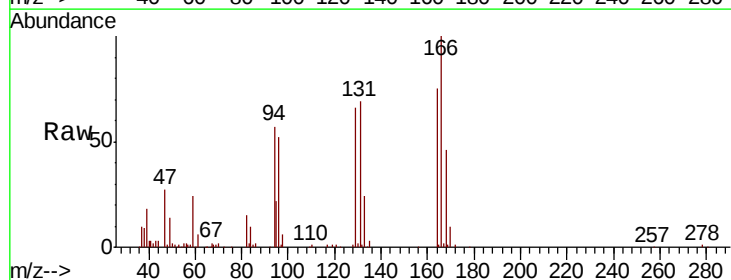
Instrument :
MSVOA_L
ClientSampleId :

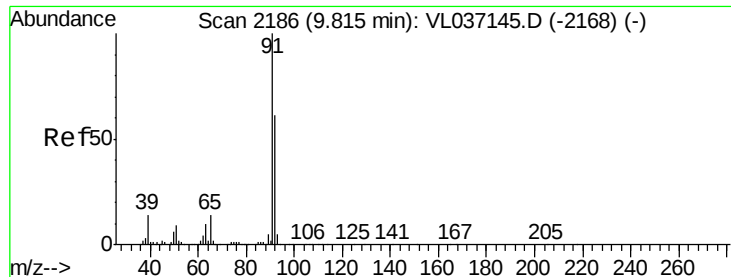
Tot Ion: 43 Resp: 224775
Ion Ratio Lower Upper
43 100
58 53.9 40.1 60.1
98 1.2 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.437 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

Tgt Ion: 164 Resp: 57992
Ion Ratio Lower Upper
164 100
166 133.9 102.6 154.0
129 87.9 87.4 131.2
131 90.9 81.4 122.2





#53

Toluene

Concen: 1.293 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

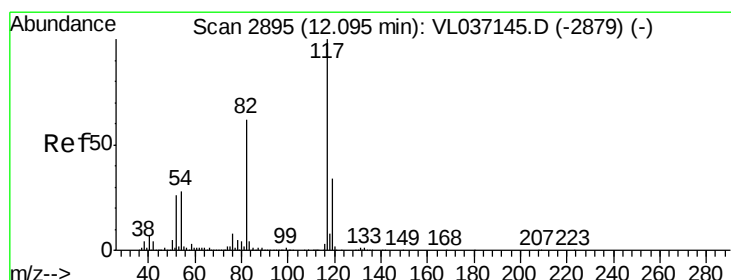
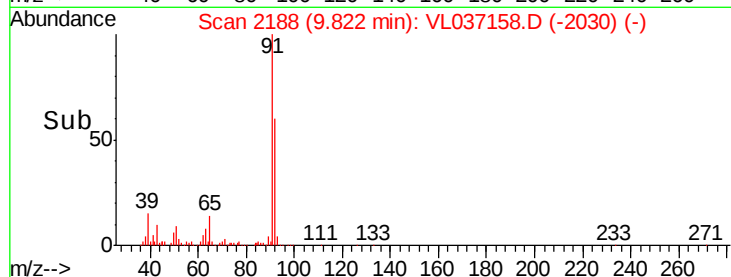
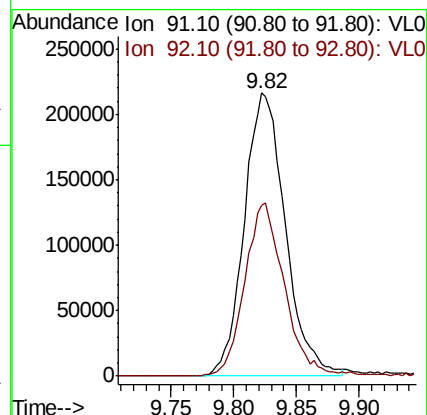
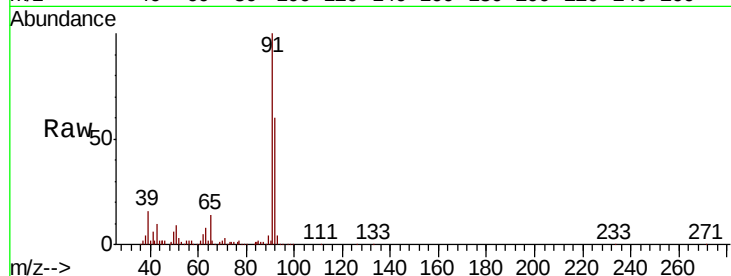
ClientSampleId :

Tot Ion: 91 Resp: 492648

Ion Ratio Lower Upper

91 100

92 59.3 48.6 73.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

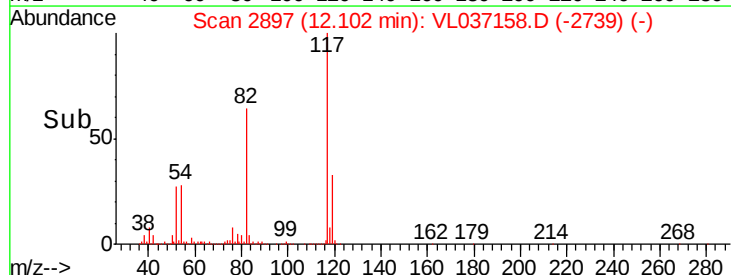
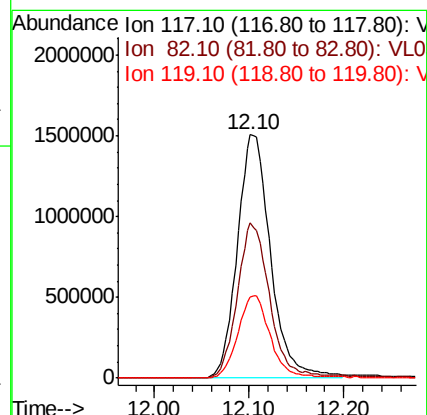
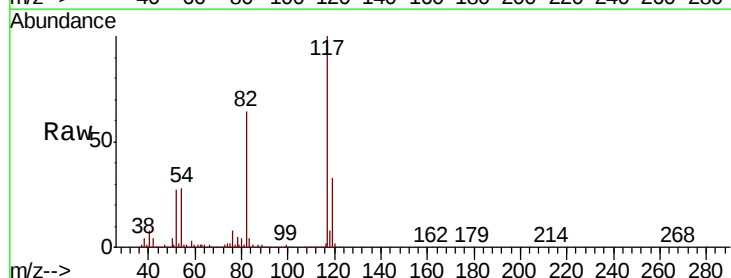
Tgt Ion: 117 Resp: 3687772

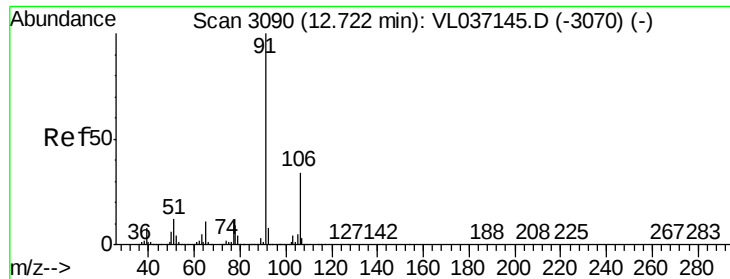
Ion Ratio Lower Upper

117 100

82 63.8 50.6 76.0

119 33.8 27.1 40.7





#58

Ethyl Benzene

Concen: 0.656 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

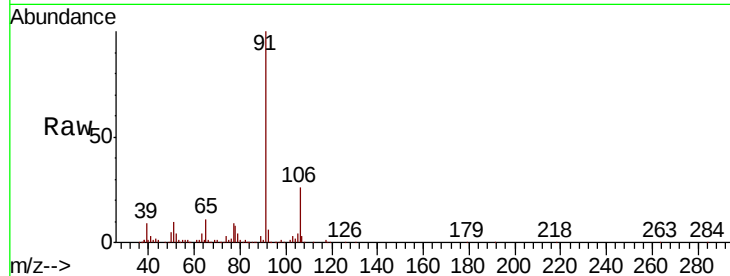
ClientSampleId :

Tot Ion: 91 Resp: 327480

Ion Ratio Lower Upper

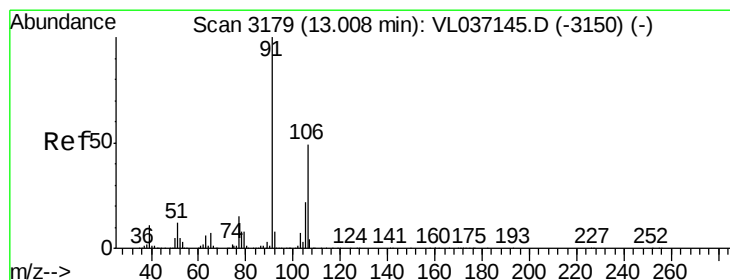
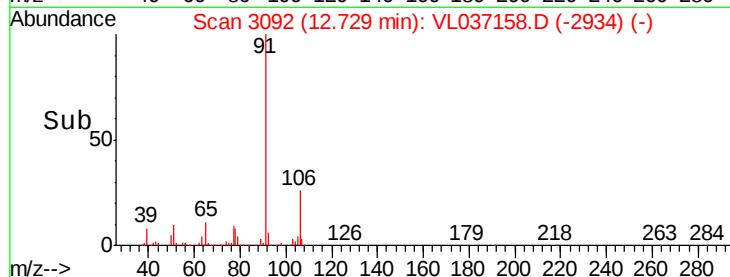
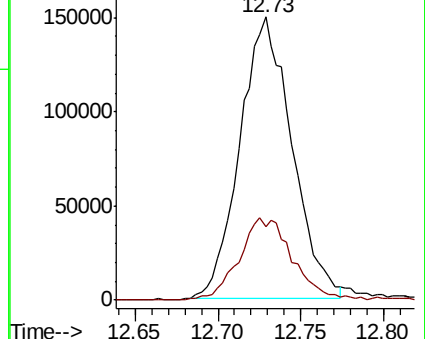
91 100

106 25.5 26.8 40.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 1.115 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. -0.02 min

Lab File: VL037158.D

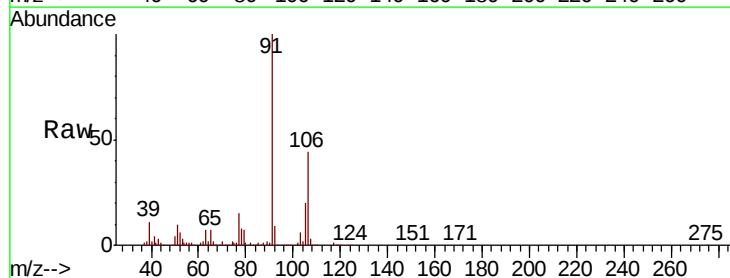
Acq: 15 Jun 2021 15:48

Tgt Ion: 91 Resp: 473522

Ion Ratio Lower Upper

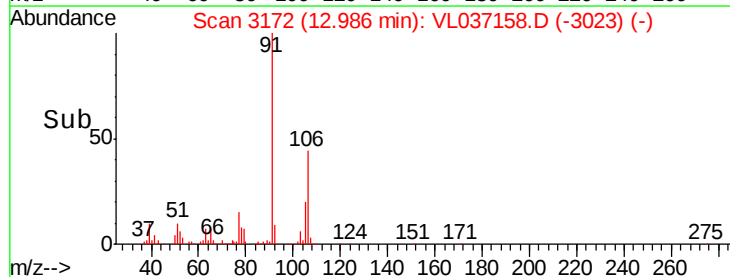
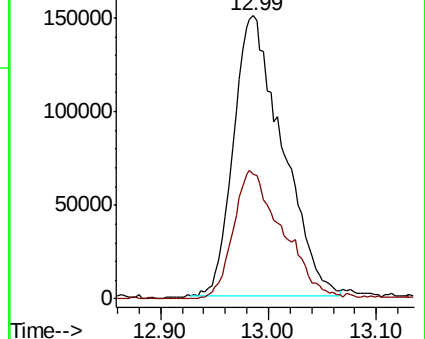
91 100

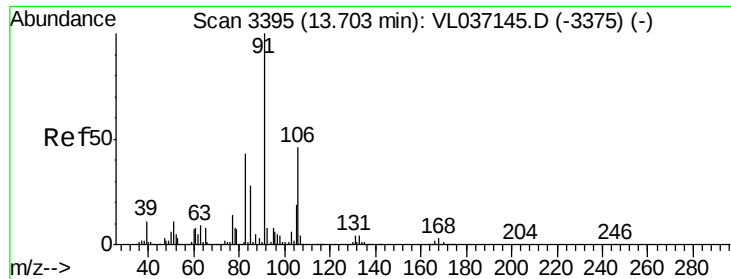
106 47.4 36.9 55.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

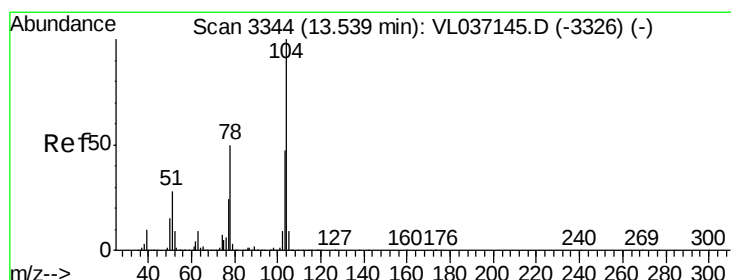
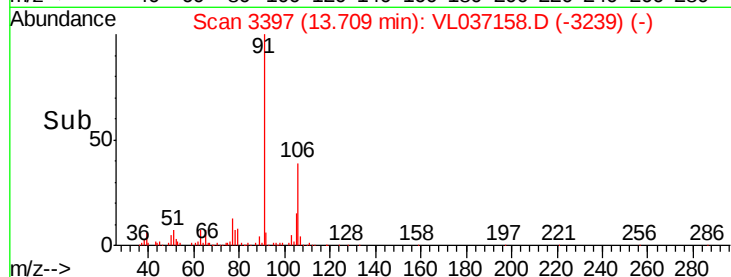
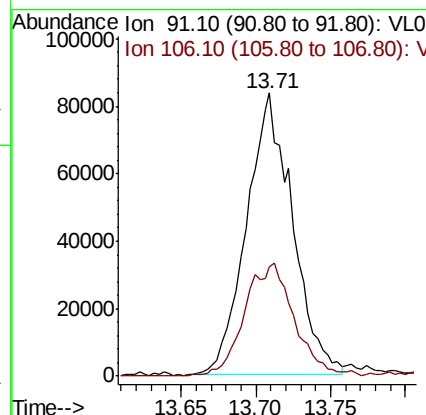
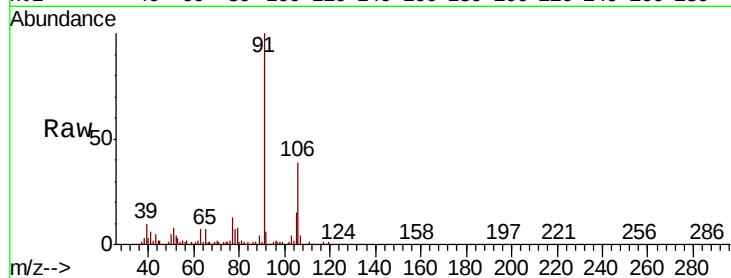




#60
o-Xylene
Concen: 0.435 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

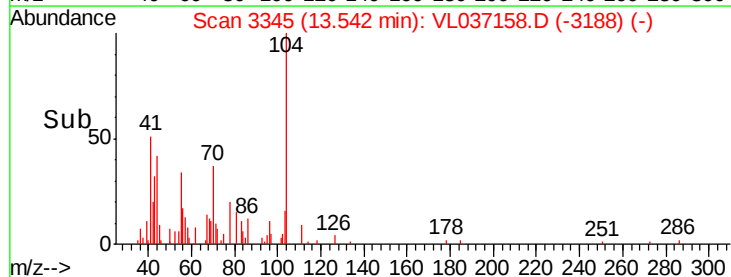
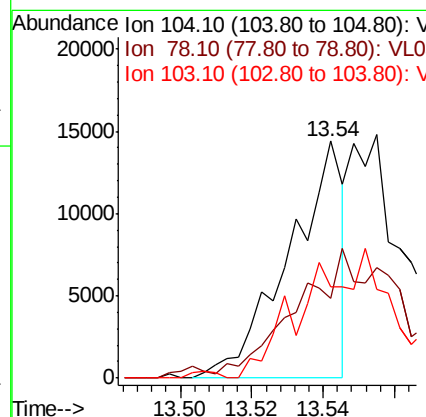
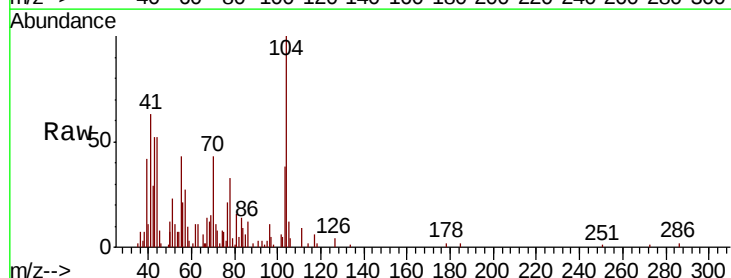
Instrument :
MSVOA_L
ClientSampleId :

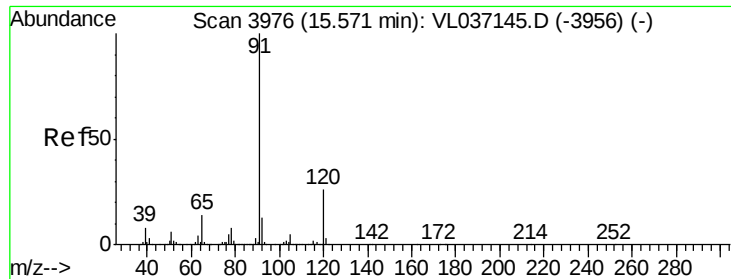
Tot Ion: 91 Resp: 177365
Ion Ratio Lower Upper
91 100
106 43.7 23.1 69.3



#61
Styrene
Concen: 0.071 ppbv
RT: 13.54 min Scan# 3345
Delta R.T. 0.00 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

Tgt Ion: 104 Resp: 15195
Ion Ratio Lower Upper
104 100
78 119.1 40.9 61.3#
103 0.0 38.6 58.0#





#64

n-propylbenzene

Concen: 0.048 ppbv

RT: 15.58 min Scan# 3979

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

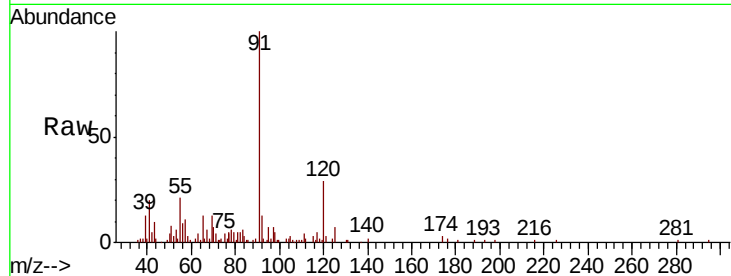
ClientSampleId :

Tot Ion:120 Resp: 7063

Ion Ratio Lower Upper

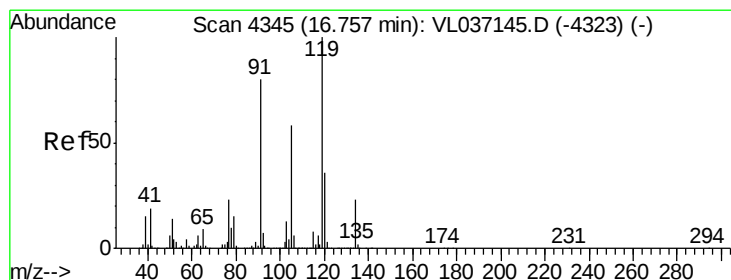
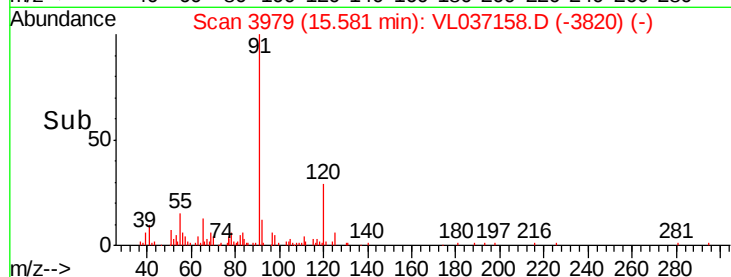
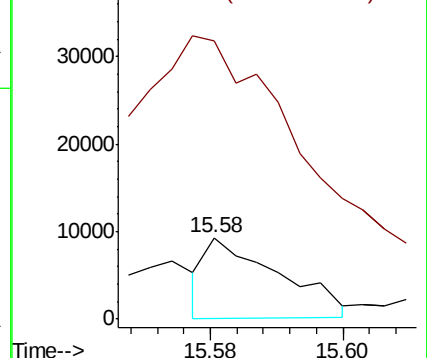
120 100

91 1144.7 342.2 513.4#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.037 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

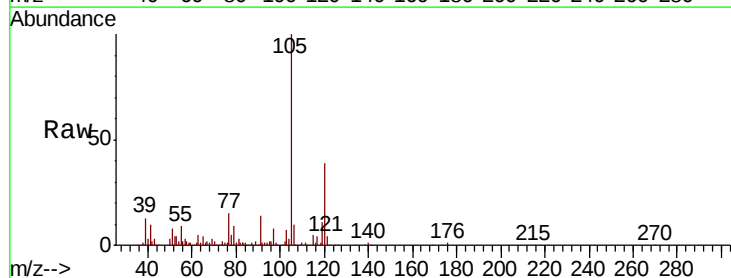
Tgt Ion:119 Resp: 19218

Ion Ratio Lower Upper

119 100

91 309.4 62.8 94.2#

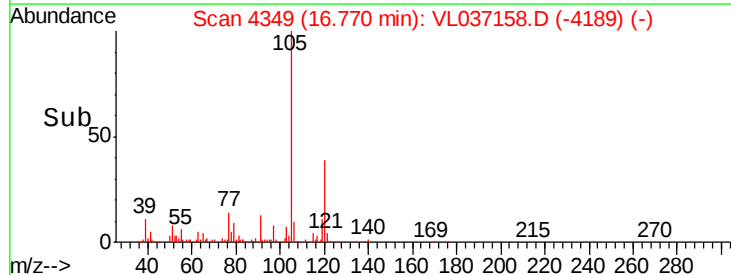
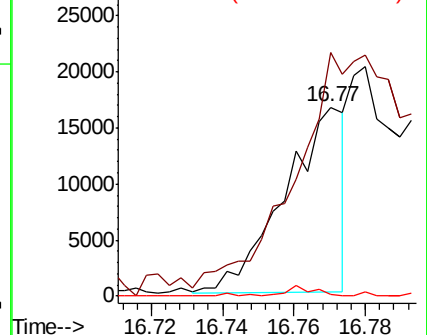
134 3.3 16.5 24.7#

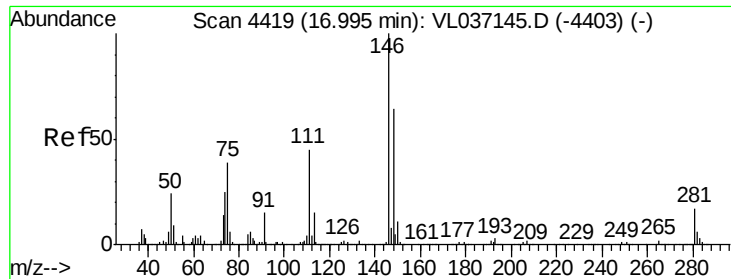


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

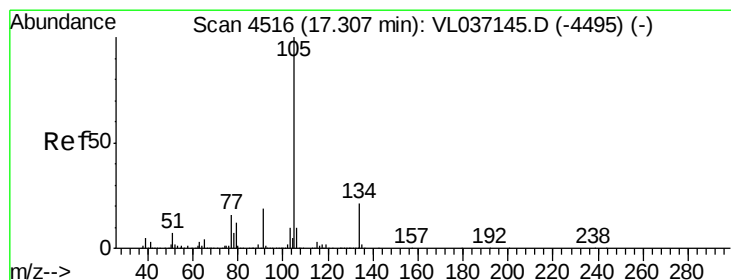
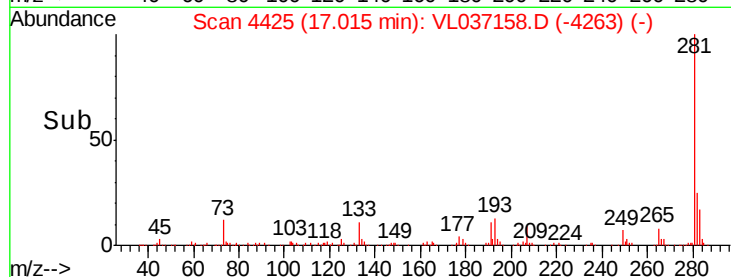
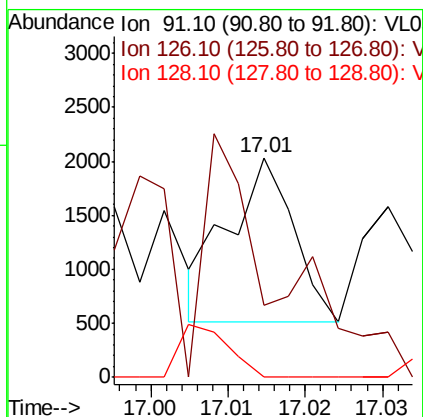
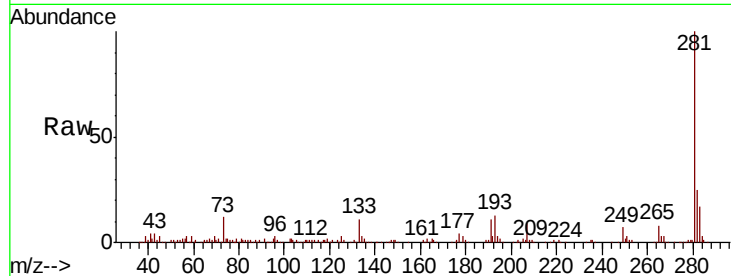




#66
Benzyl Chloride
Concen: 0.039 ppbv
RT: 17.01 min Scan# 4425
Delta R.T. 0.02 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

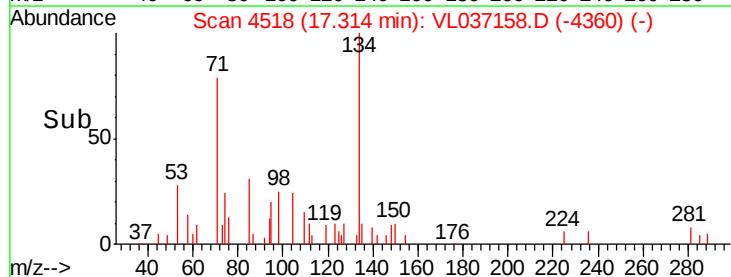
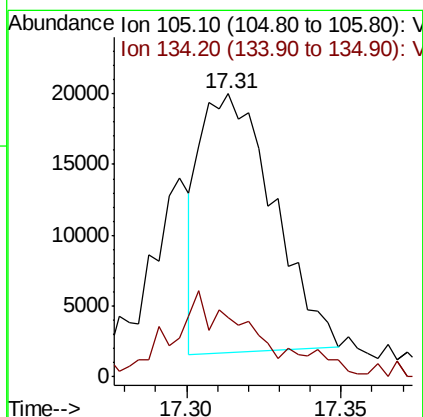
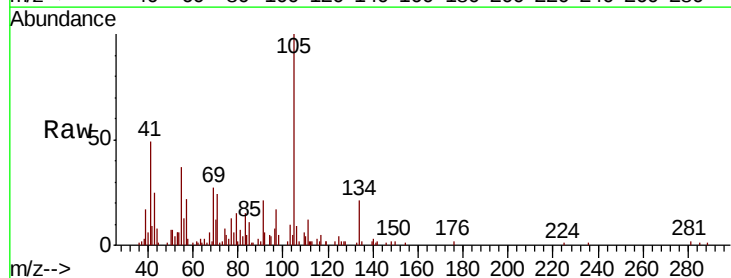
Instrument :
MSVOA_L
ClientSampleId :

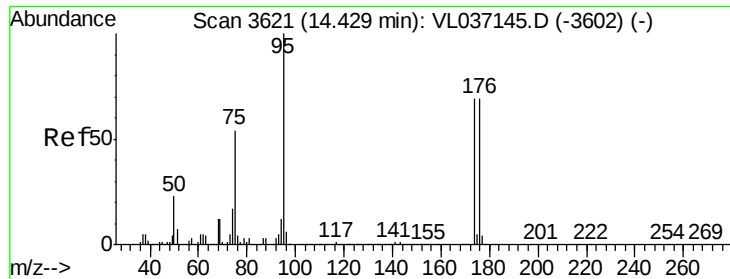
Tot Ion: 91 Resp: 886
Ion Ratio Lower Upper
91 100
126 0.0 16.4 24.6#
128 49.1 5.7 8.5#



#67
sec-Butylbenzene
Concen: 0.043 ppbv
RT: 17.31 min Scan# 4518
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

Tgt Ion: 105 Resp: 30137
Ion Ratio Lower Upper
105 100
134 0.0 16.0 24.0#

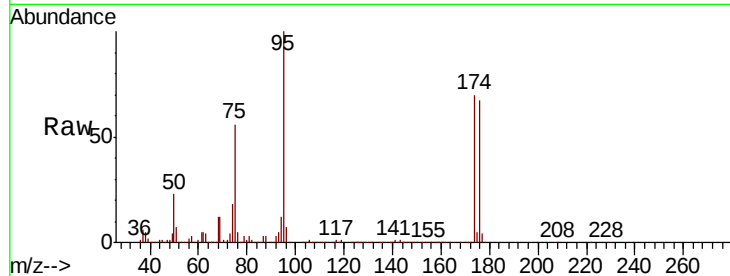




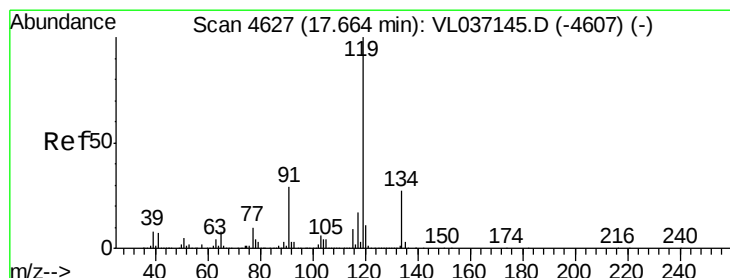
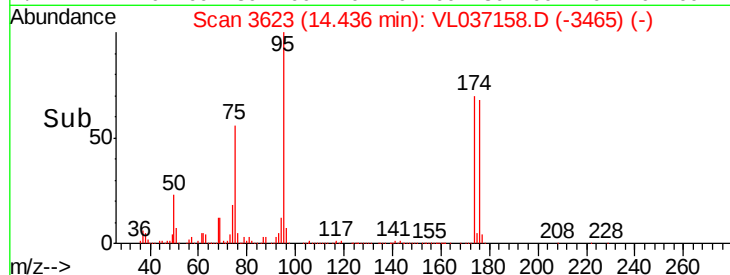
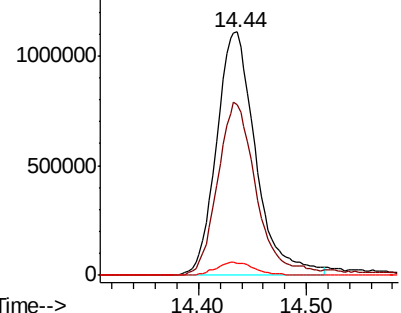
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.325 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. 0.01 min
 Lab File: VL037158.D
 Acq: 15 Jun 2021 15:48

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 95 Resp: 2804485
 Ion Ratio Lower Upper
 95 100
 174 73.3 57.6 86.4
 175 5.6 4.4 6.6

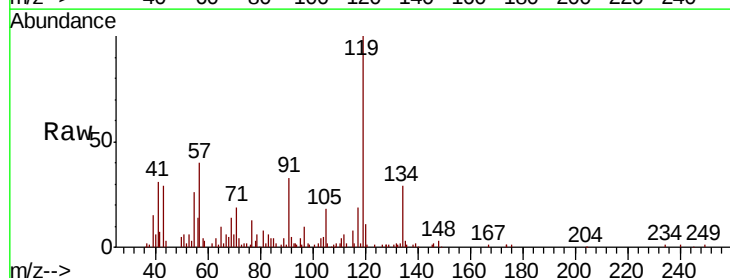


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

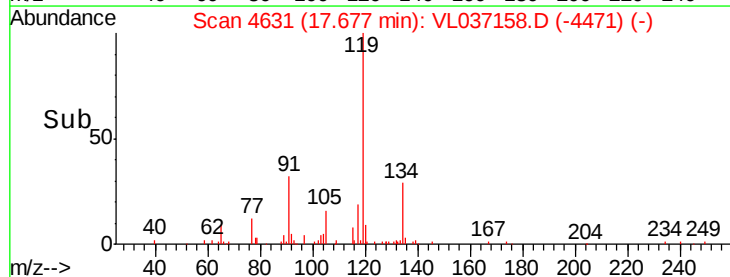
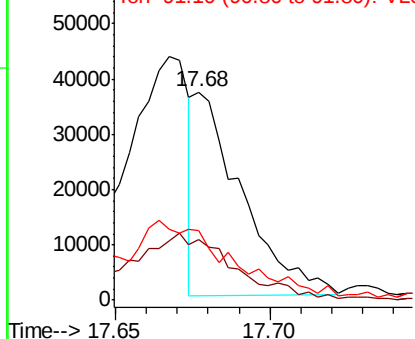


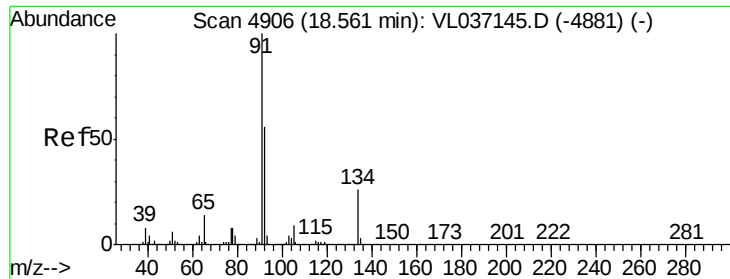
#69
 p-Isopropyltoluene
 Concen: 0.066 ppbv
 RT: 17.68 min Scan# 4631
 Delta R.T. 0.01 min
 Lab File: VL037158.D
 Acq: 15 Jun 2021 15:48

Tgt Ion: 119 Resp: 38841
 Ion Ratio Lower Upper
 119 100
 134 0.0 21.2 31.8#
 91 0.0 22.9 34.3#



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): VL0

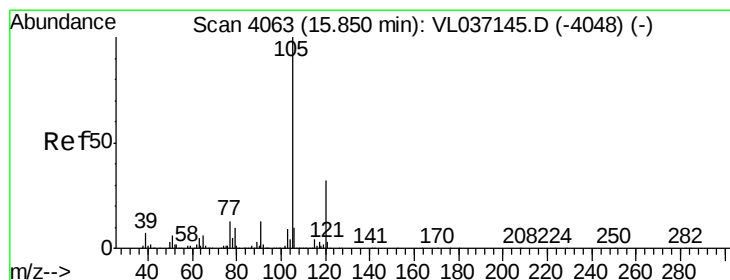
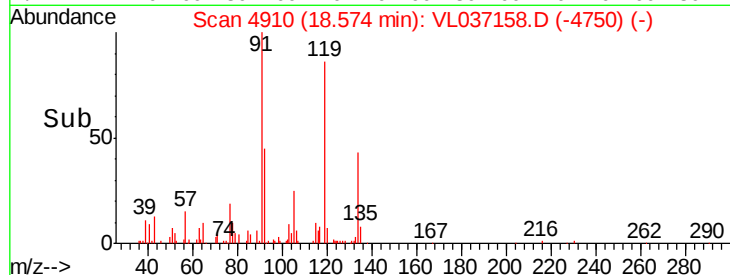
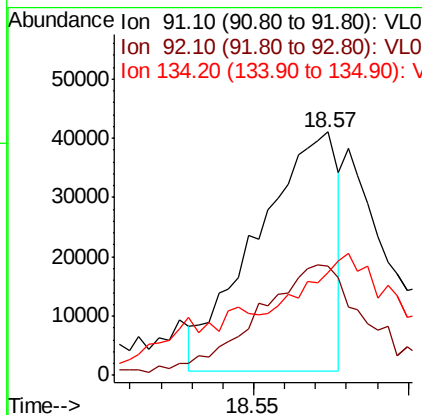
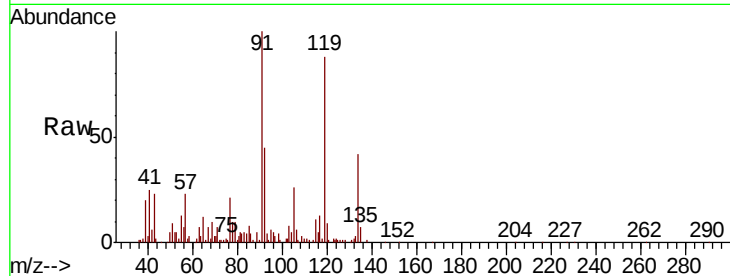




#70
n-Butylbenzene
Concen: 0.137 ppbv
RT: 18.57 min Scan# 4910
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

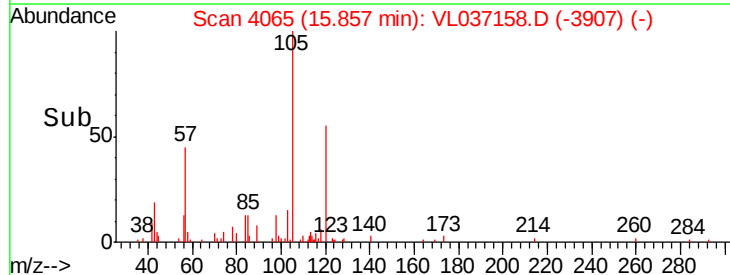
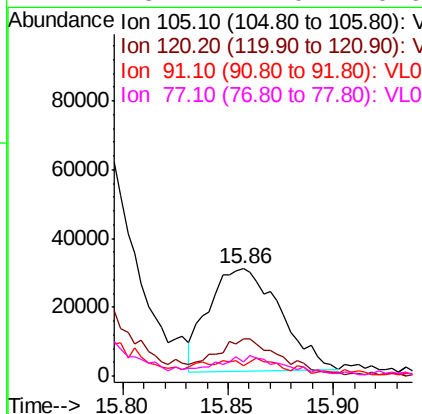
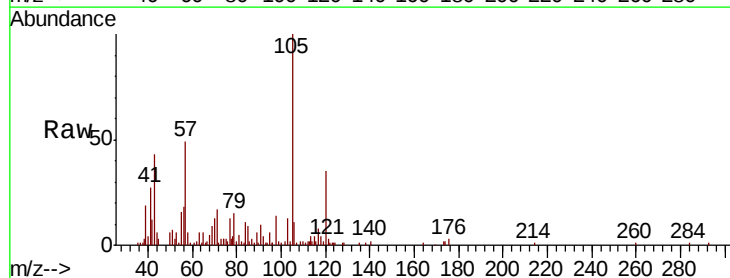
Instrument :
MSVOA_L
ClientSampleId :

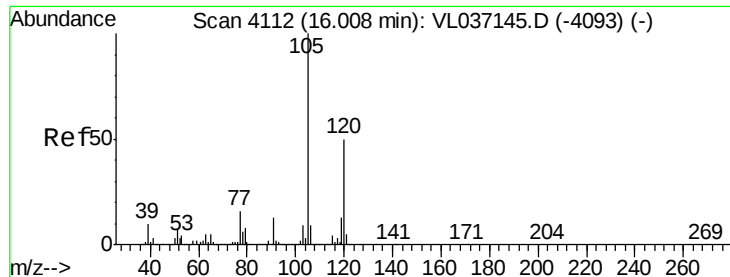
Tot Ion: 91 Resp: 73139
Ion Ratio Lower Upper
91 100
92 69.5 44.0 66.0#
134 0.0 20.4 30.6#



#72
4-Ethyltoluene
Concen: 0.149 ppbv
RT: 15.86 min Scan# 4065
Delta R.T. 0.01 min
Lab File: VL037158.D
Acq: 15 Jun 2021 15:48

Tgt Ion: 105 Resp: 70375
Ion Ratio Lower Upper
105 100
120 35.8 25.1 37.7
91 18.3 10.3 15.5#
77 15.7 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 0.150 ppbv

RT: 16.01 min Scan# 4113

Delta R.T. 0.00 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

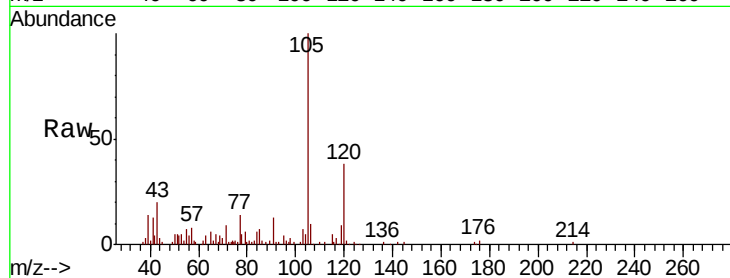
ClientSampleId :

Tot Ion:105 Resp: 67573

Ion Ratio Lower Upper

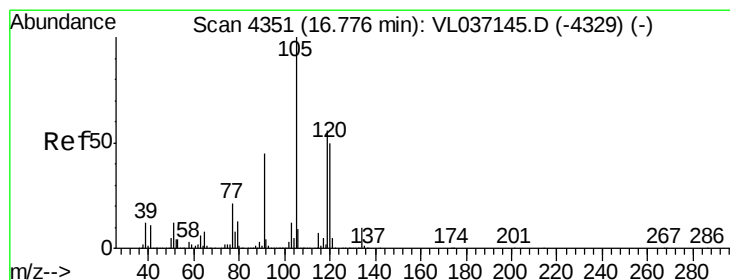
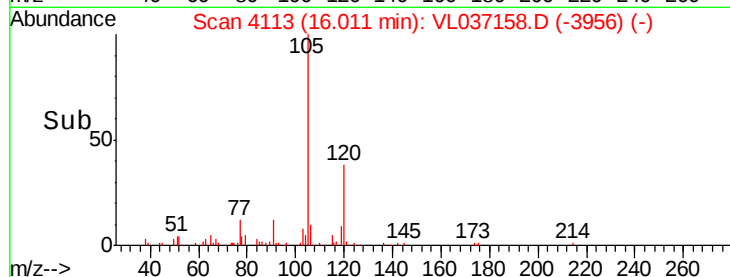
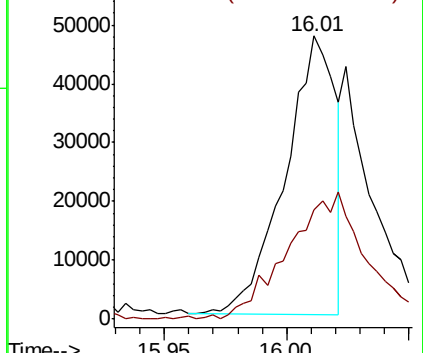
105 100

120 38.0 39.7 59.5#



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: 0.931 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Tgt Ion:105 Resp: 425497

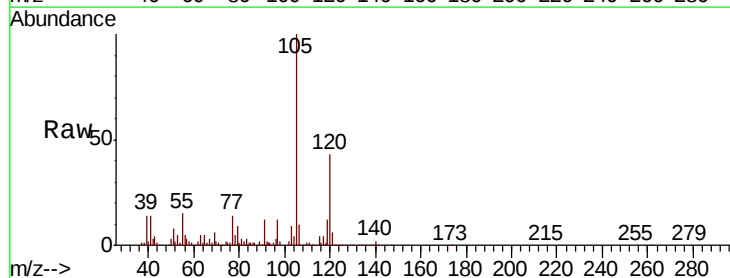
Ion Ratio Lower Upper

105 100

120 42.9 39.7 59.5

91 11.6 35.8 53.8#

77 13.9 16.7 25.1#

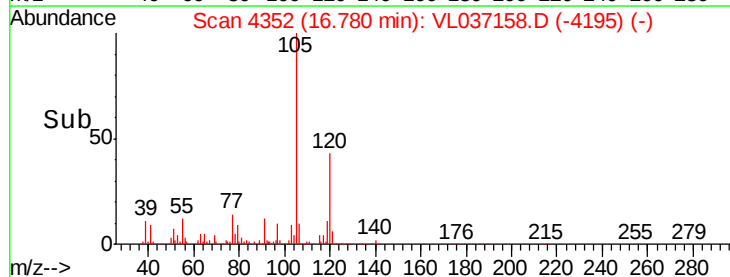
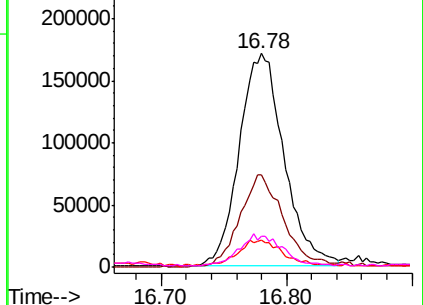


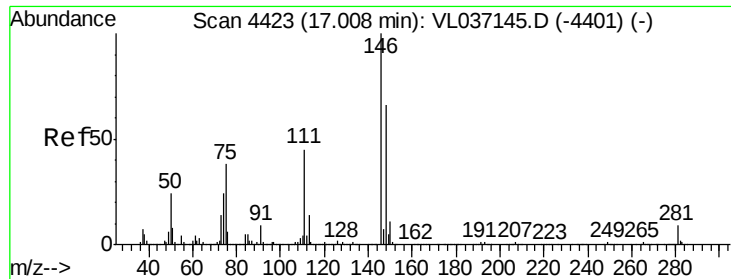
Abundance Ion 105.10 (104.80 to 105.80): V

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

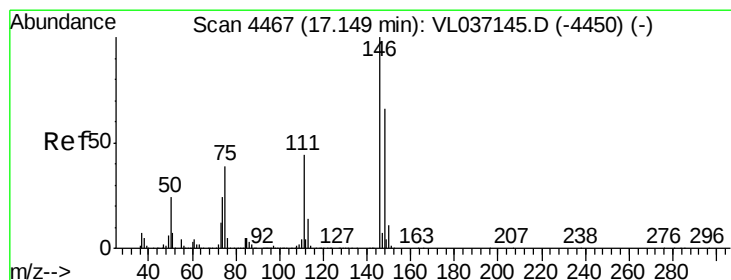
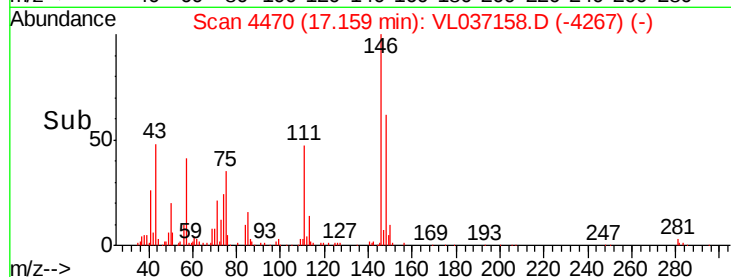
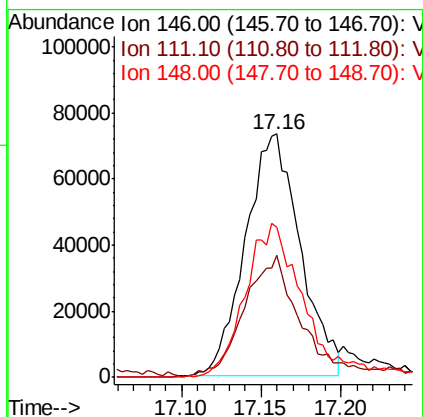
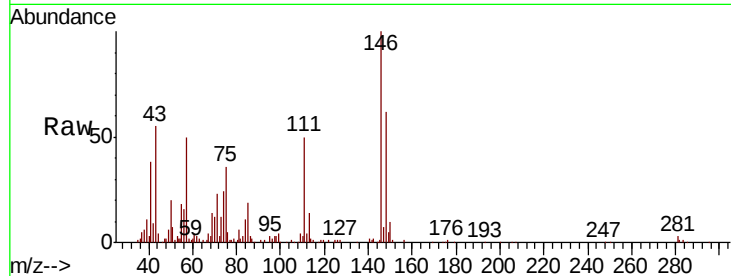




#75
 1,3-Dichlorobenzene
 Concen: 0.615 ppbv
 RT: 17.16 min Scan# 4470
 Delta R.T. 0.15 min
 Lab File: VL037158.D
 Acq: 15 Jun 2021 15:48

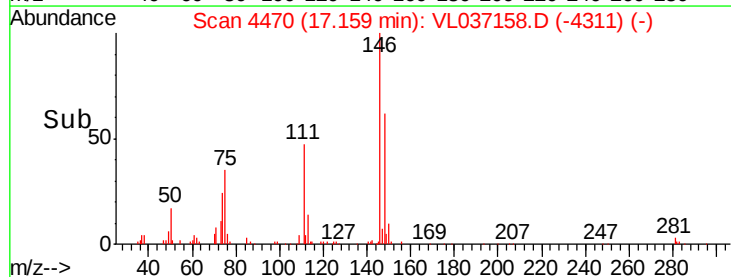
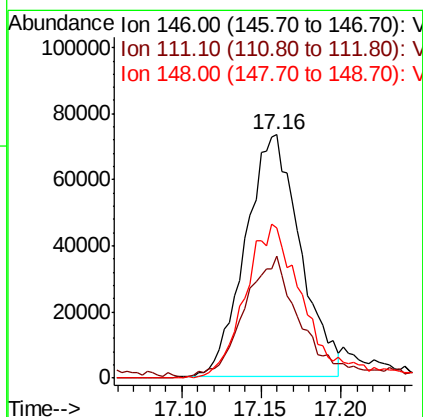
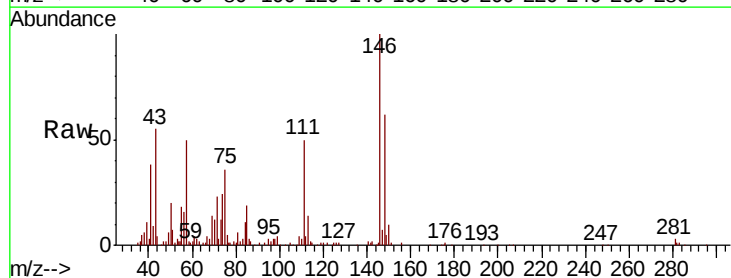
Instrument :
 MSVOA_L
 ClientSampleId :

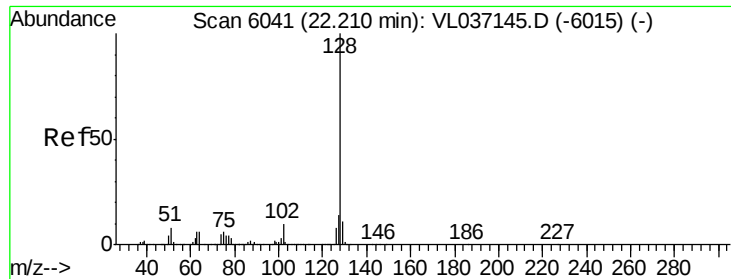
Tot Ion	Ratio	Lower	Upper
146	100		
111	52.9	22.4	67.2
148	69.8	32.3	96.9



#76
 1,4-Dichlorobenzene
 Concen: 0.619 ppbv
 RT: 17.16 min Scan# 4470
 Delta R.T. 0.01 min
 Lab File: VL037158.D
 Acq: 15 Jun 2021 15:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.7	21.9	65.5
148	70.0	32.4	97.0





#79

Naphthalene

Concen: 1.128 ppbv

RT: 22.22 min Scan# 6044

Delta R.T. 0.01 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

Instrument :

MSVOA_L

ClientSampleId :

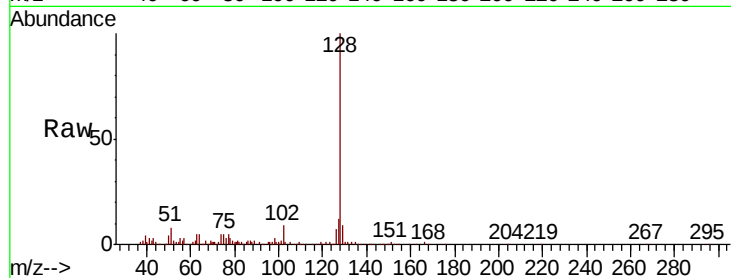
Tot Ion:128 Resp: 310151

Ion Ratio Lower Upper

128 100

127 11.9 10.9 16.3

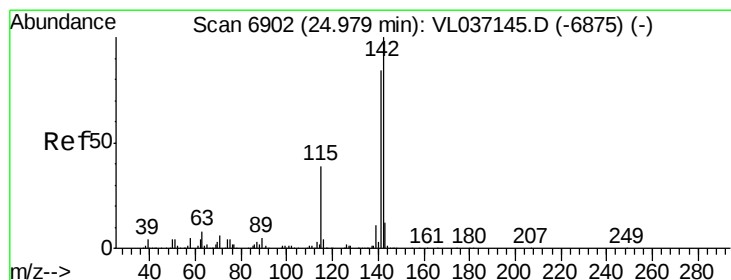
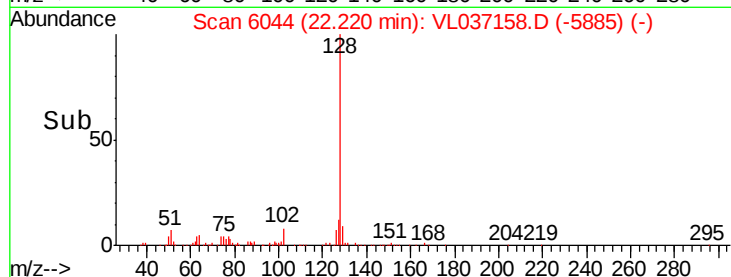
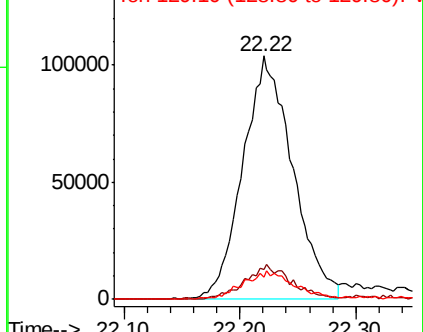
129 9.2 9.0 13.4



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: 0.098 ppbv

RT: 24.98 min Scan# 6901

Delta R.T. -0.00 min

Lab File: VL037158.D

Acq: 15 Jun 2021 15:48

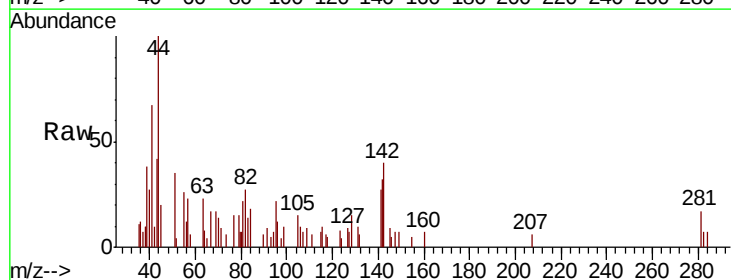
Tgt Ion:142 Resp: 6554

Ion Ratio Lower Upper

142 100

141 67.7 66.7 100.1

115 64.0 32.2 48.2#



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

