

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051923\
 Data File : VY013820.D
 Acq On : 19 May 2023 14:49
 Operator : KP/MD
 Sample : 02852-03
 Misc : 6.61g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 CB-32-G3-SO-18-051823

Quant Time: May 22 04:20:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051723S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 18 06:54:18 2023
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

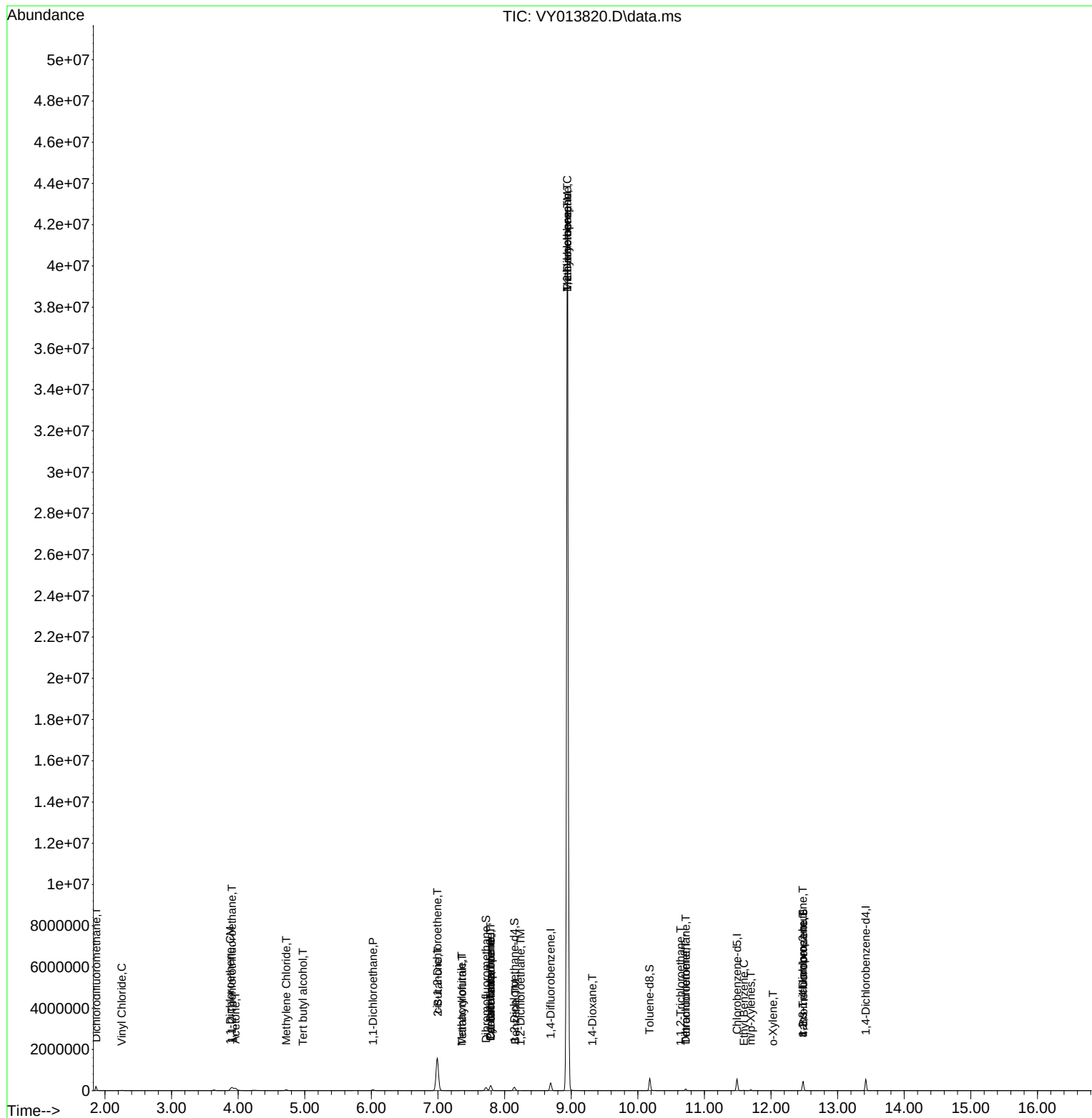
Internal Standards						
1) Pentafluorobenzene	7.789	168	189987	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	306890	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	290805	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	135231	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	130474	59.118	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 118.240%	
35) Dibromofluoromethane	7.722	113	102234	51.949	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.900%	
50) Toluene-d8	10.179	98	369703	49.553	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.100%	
62) 4-Bromofluorobenzene	12.483	95	121684	49.103	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 98.200%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.869	85	24257	17.783	ug/l	99
4) Vinyl Chloride	2.253	62	10483	5.077	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.905	101	93180	52.975	ug/l	98
11) Tert butyl alcohol	4.972	59	548	3.065	ug/l #	73
12) 1,1-Dichloroethene	3.881	96	9405	5.899	ug/l	87
16) Acetone	3.960	43	232779	349.588	ug/l	99
20) Methylene Chloride	4.722	84	27412	8.570	ug/l	94
24) 1,1-Dichloroethane	6.027	63	53522	14.656	ug/l	99
25) 2-Butanone	6.996	43	3063	3.539	ug/l #	1
27) cis-1,2-Dichloroethene	6.990	96	953209	450.610	ug/l	89
29) Tetrahydrofuran	7.362	42	6829	13.185	ug/l	97
31) Cyclohexane	7.789	56	4290	1.356	ug/l #	24
36) 1,1-Dichloropropene	7.789	75	14863	5.466	ug/l #	51
38) Carbon Tetrachloride	7.789	117	18691	6.516	ug/l #	16
39) Methylcyclohexane	8.941	83	183665	59.428	ug/l #	1
40) Benzene	8.161	78	16558	2.095	ug/l	95
41) Methacrylonitrile	7.356	41	4046	4.353	ug/l #	39
42) 1,2-Dichloroethane	8.240	62	5446	2.133	ug/l	100
44) Trichloroethene	8.941	130	12092939	5854.380	ug/l	90
45) 1,2-Dichloropropane	8.941	63	42223	19.446	ug/l #	1
49) 1,4-Dioxane	9.319	88	196	13.132	ug/l #	74
55) 1,1,2-Trichloroethane	10.642	97	2680	1.620	ug/l #	82
60) Dibromochloromethane	10.721	129	13006	6.490	ug/l #	11
64) Tetrachloroethene	10.721	164	16753	9.081	ug/l	98
67) Ethyl Benzene	11.593	91	12156	1.243	ug/l	93
68) m/p-Xylenes	11.697	106	11916	3.253	ug/l	91
69) o-Xylene	12.032	106	3659	1.050	ug/l	98
76) 1,2,3-Trichloropropane	12.477	75	69446	42.432	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	69446	94.469	ug/l #	12

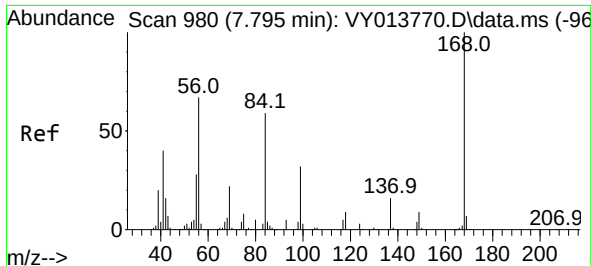
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

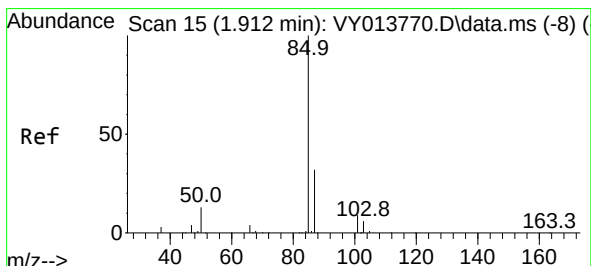
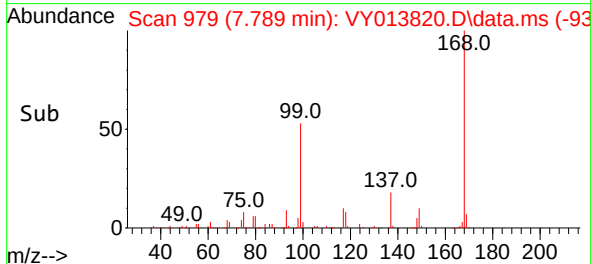
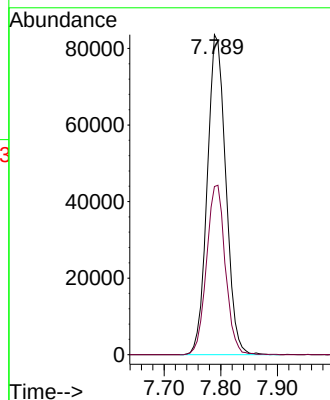
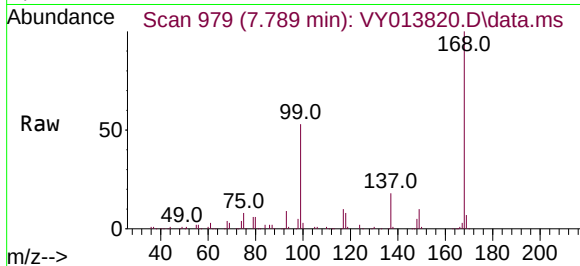




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

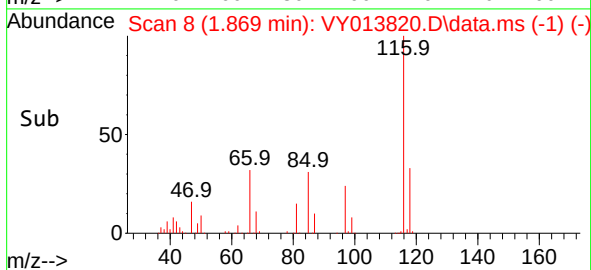
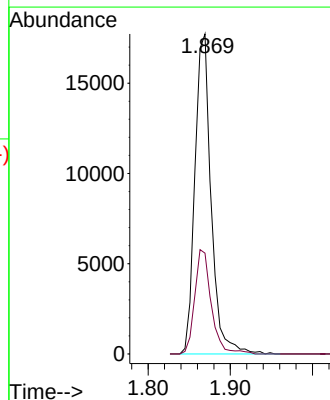
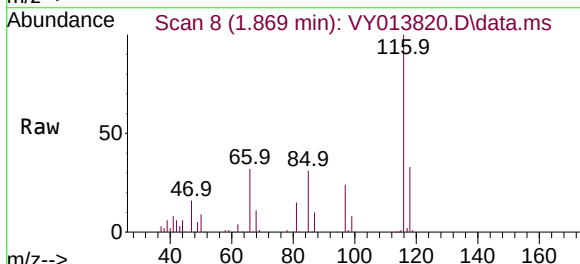
Instrument :
MSVOA_Y
ClientSampleId :
CB-32-G3-SO-18-051823

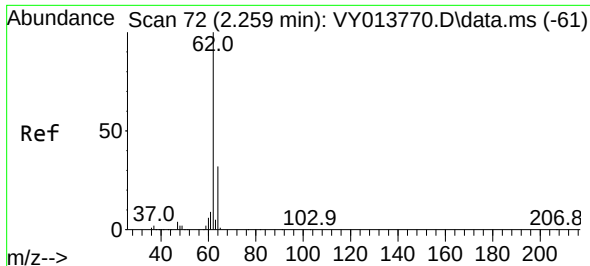
Tgt Ion:168 Resp: 189987
Ion Ratio Lower Upper
168 100
99 52.5 44.0 66.0



#2
Dichlorodifluoromethane
Concen: 17.783 ug/l
RT: 1.869 min Scan# 8
Delta R.T. -0.043 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

Tgt Ion: 85 Resp: 24257
Ion Ratio Lower Upper
85 100
87 31.5 16.1 48.2

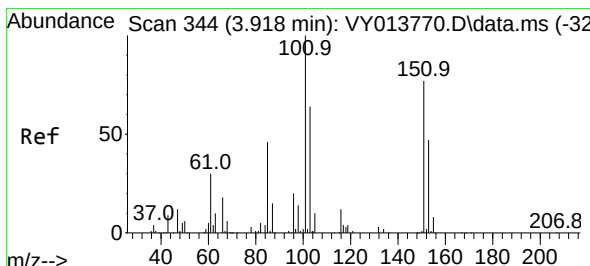
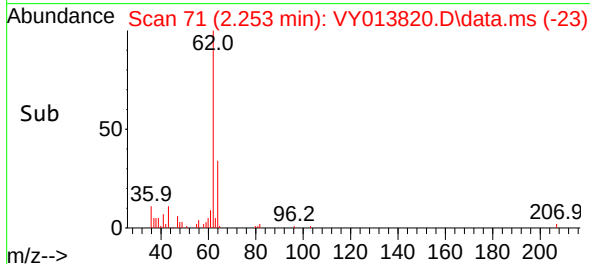
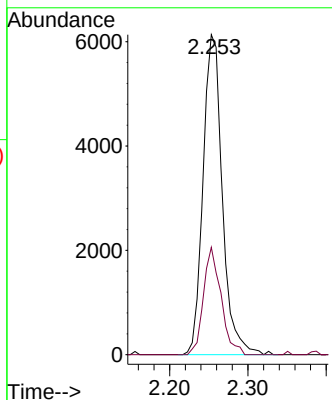
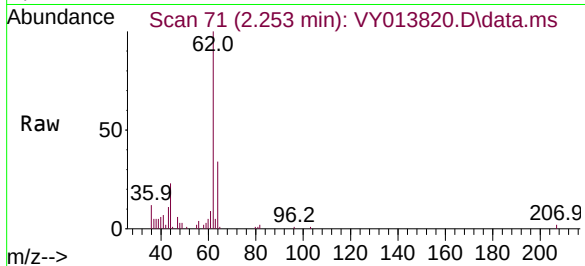




#4
 Vinyl Chloride
 Concen: 5.077 ug/l
 RT: 2.253 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VY013820.D
 Acq: 19 May 2023 14:49

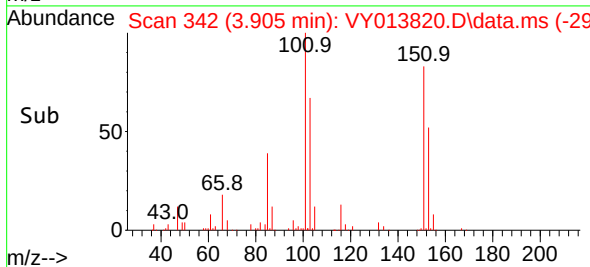
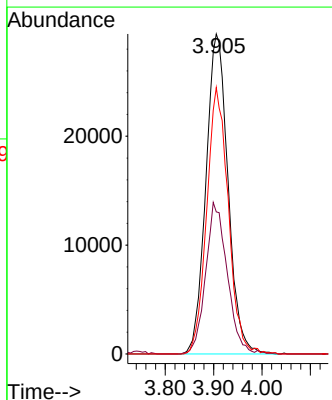
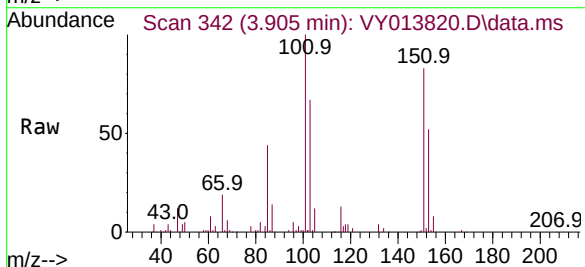
Instrument :
 MSVOA_Y
 ClientSampleId :
 CB-32-G3-SO-18-051823

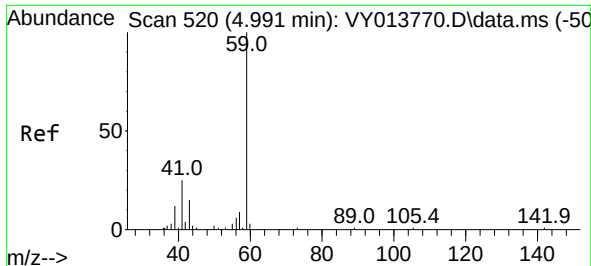
Tgt Ion: 62 Resp: 10483
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.8 38.6



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 52.975 ug/l
 RT: 3.905 min Scan# 342
 Delta R.T. -0.012 min
 Lab File: VY013820.D
 Acq: 19 May 2023 14:49

Tgt Ion: 101 Resp: 93180
 Ion Ratio Lower Upper
 101 100
 85 46.0 37.8 56.8
 151 81.4 64.2 96.2

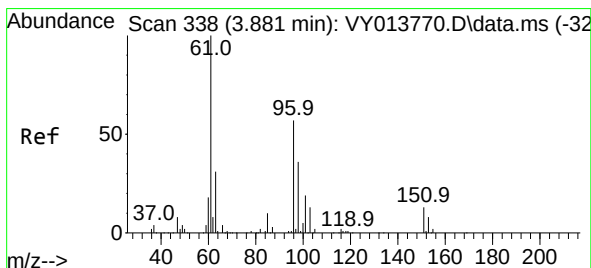
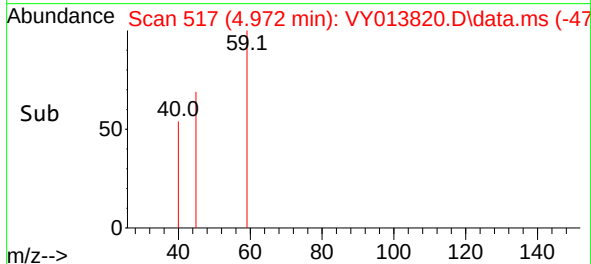
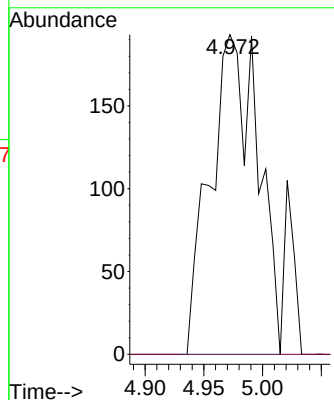
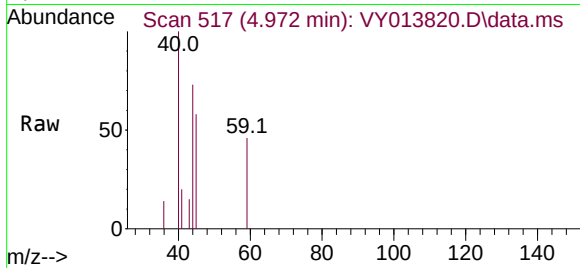




#11
Tert butyl alcohol
Concen: 3.065 ug/l
RT: 4.972 min Scan# 517
Delta R.T. -0.018 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

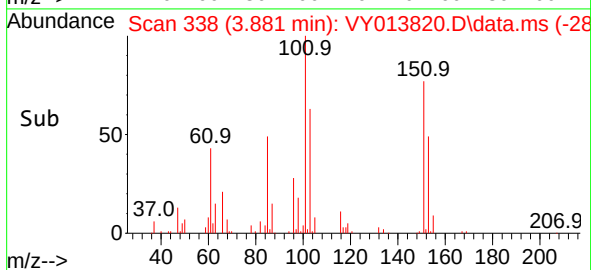
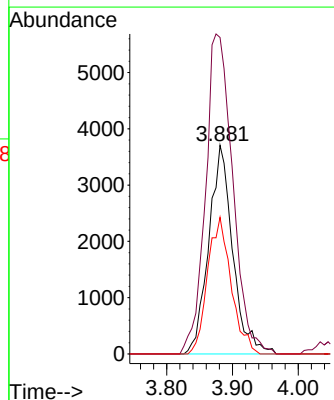
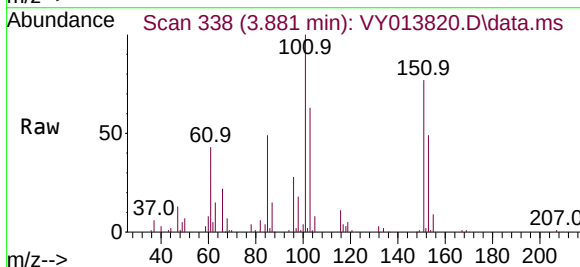
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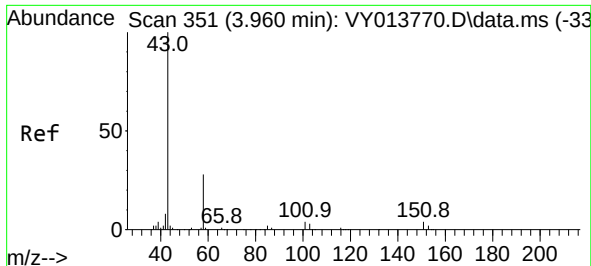
Tgt Ion: 59 Resp: 548
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#12
1,1-Dichloroethene
Concen: 5.899 ug/l
RT: 3.881 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

Tgt Ion: 96 Resp: 9405
Ion Ratio Lower Upper
96 100
61 151.8 139.8 209.6
98 65.5 49.7 74.5

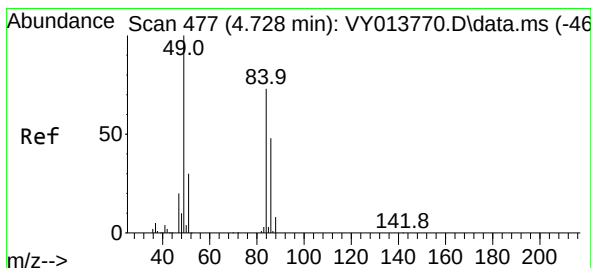
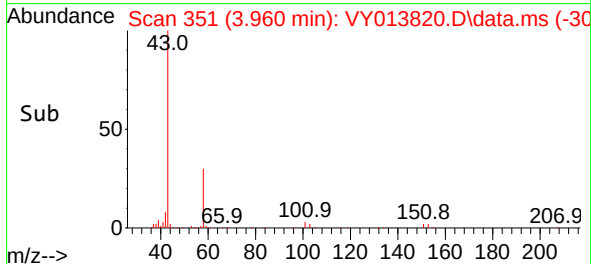
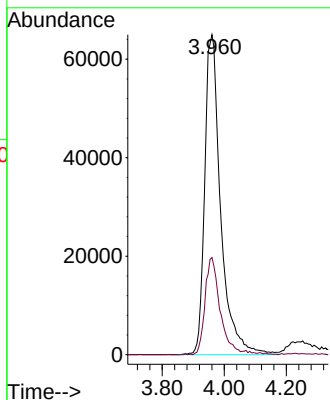
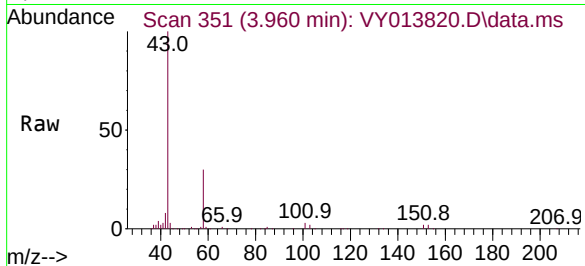




#16
Acetone
Concen: 349.588 ug/l
RT: 3.960 min Scan# 31
Delta R.T. -0.000 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

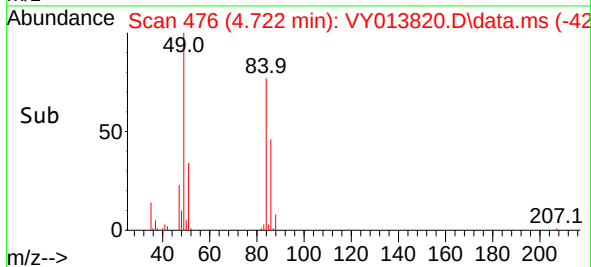
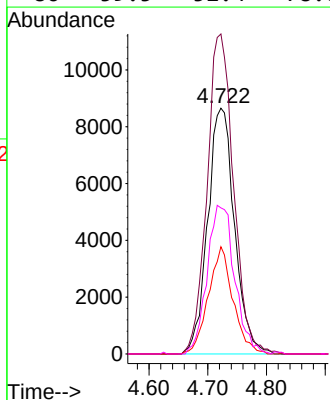
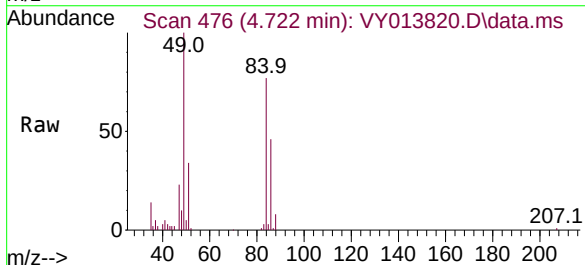
Instrument :
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ClientSampleId :
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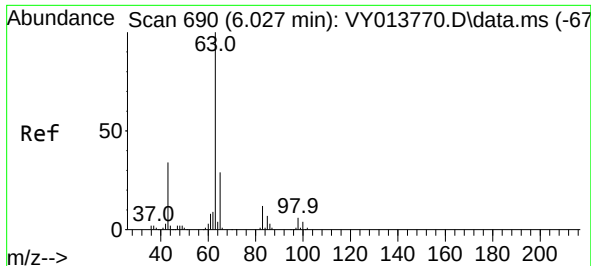
Tgt Ion: 43 Resp: 232779
Ion Ratio Lower Upper
43 100
58 30.4 23.7 35.5



#20
Methylene Chloride
Concen: 8.570 ug/l
RT: 4.722 min Scan# 476
Delta R.T. -0.006 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

Tgt Ion: 84 Resp: 27412
Ion Ratio Lower Upper
84 100
49 130.2 109.4 164.0
51 43.7 32.8 49.2
86 59.5 52.4 78.6

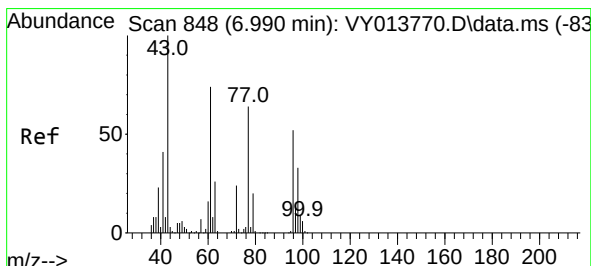
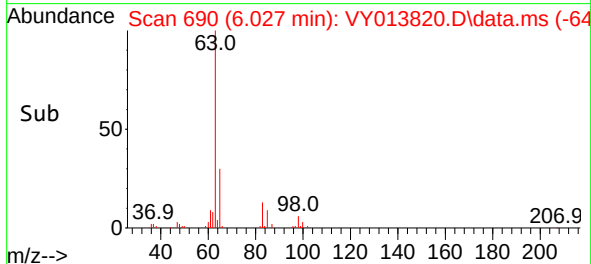
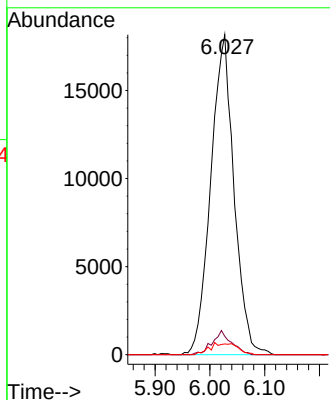
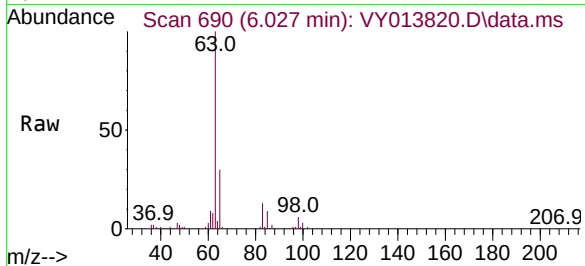




#24
1,1-Dichloroethane
Concen: 14.656 ug/l
RT: 6.027 min Scan# 690
Delta R.T. 0.000 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

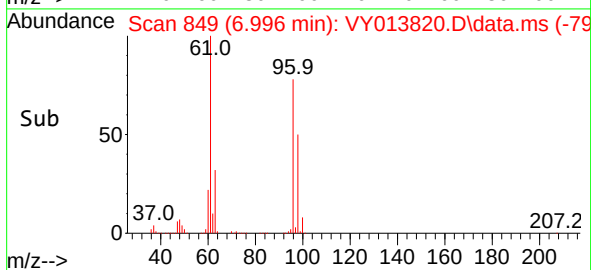
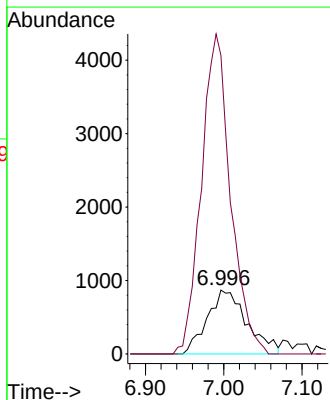
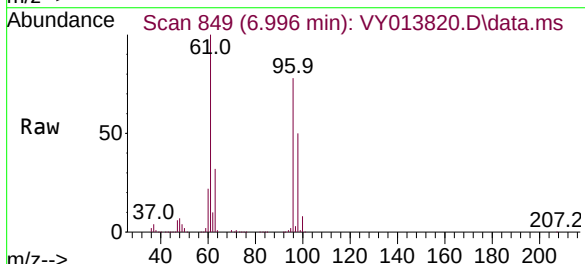
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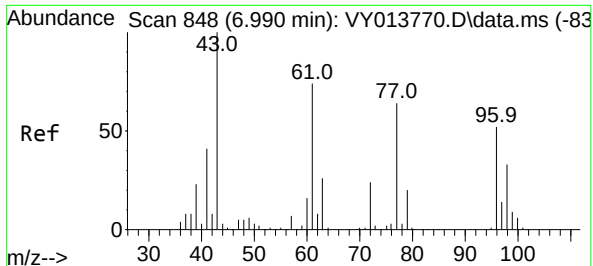
Tgt Ion: 63	Resp: 53522
Ion Ratio	Lower Upper
63 100	
98 5.8	3.0 9.0
100 3.4	2.0 6.0



#25
2-Butanone
Concen: 3.539 ug/l
RT: 6.996 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

Tgt Ion: 43	Resp: 3063
Ion Ratio	Lower Upper
43 100	
72 467.2	19.0 28.6#





#27

cis-1,2-Dichloroethene

Concen: 450.610 ug/l

RT: 6.990 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

Instrument :

MSVOA_Y

ClientSampleId :

CB-32-G3-SO-18-051823

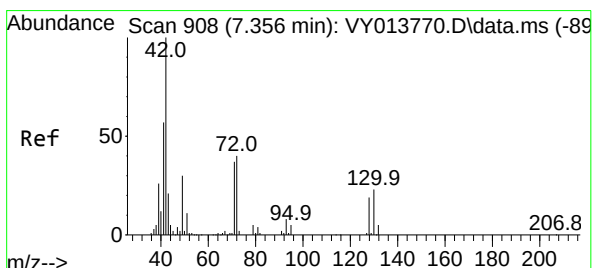
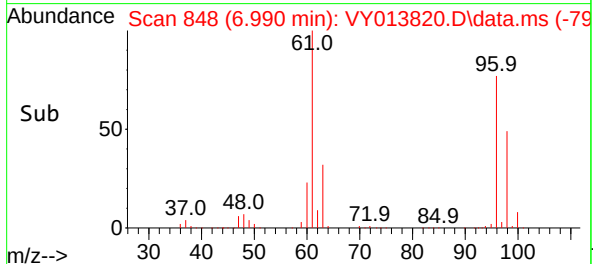
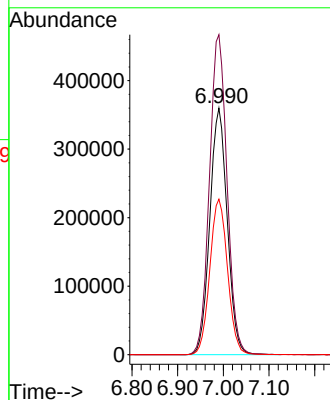
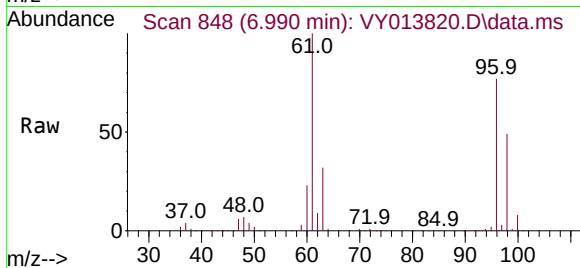
Tgt Ion: 96 Resp: 953209

Ion Ratio Lower Upper

96 100

61 131.0 0.0 300.6

98 64.2 0.0 127.8



#29

Tetrahydrofuran

Concen: 13.185 ug/l

RT: 7.362 min Scan# 909

Delta R.T. 0.006 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

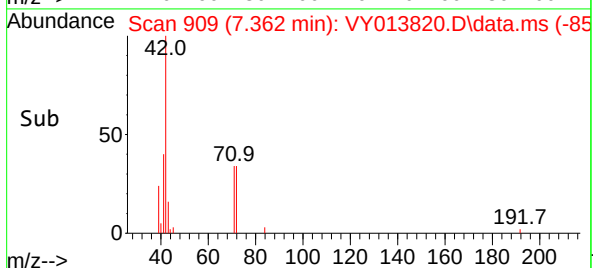
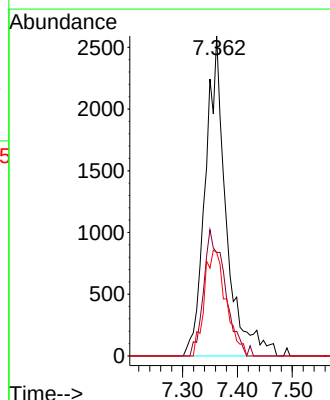
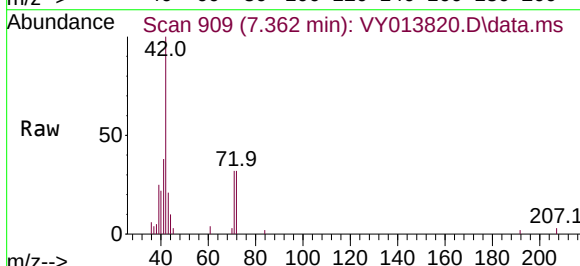
Tgt Ion: 42 Resp: 6829

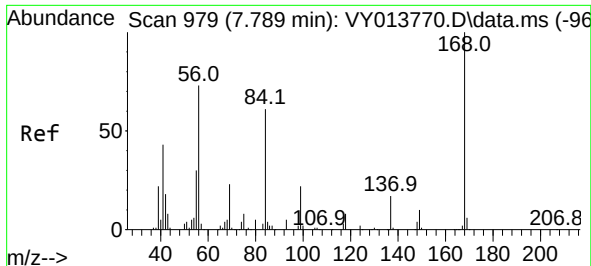
Ion Ratio Lower Upper

42 100

72 40.1 30.7 46.1

71 34.3 29.0 43.6

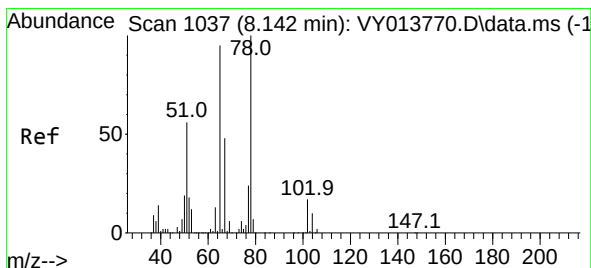
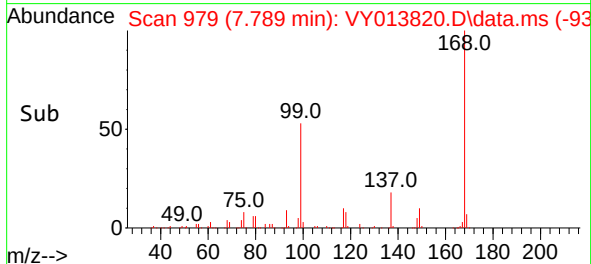
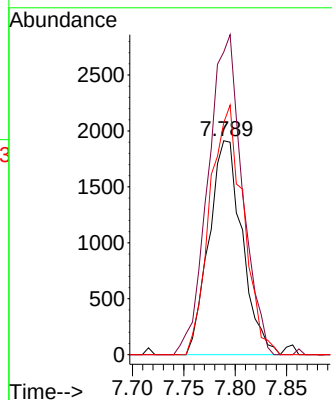
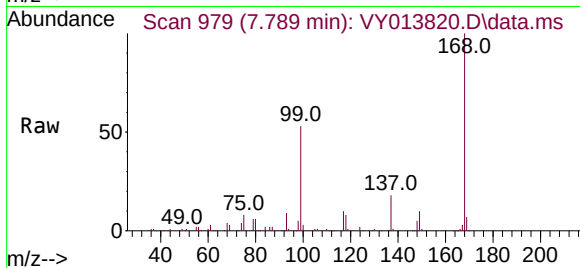




#31
Cyclohexane
Concen: 1.356 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

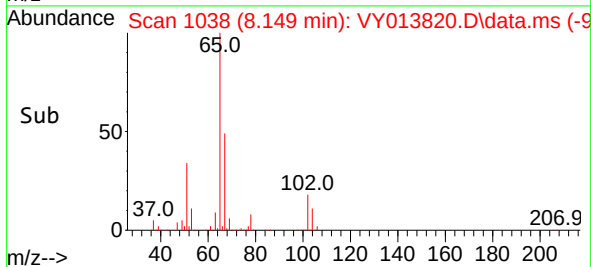
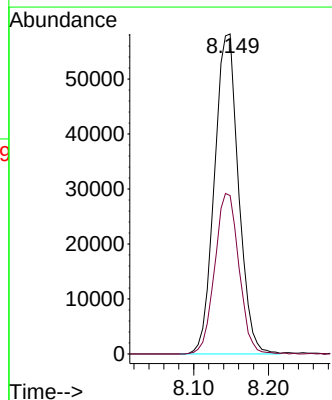
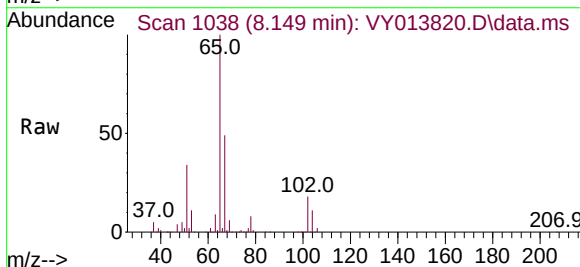
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ClientSampleId :
CB-32-G3-SO-18-051823

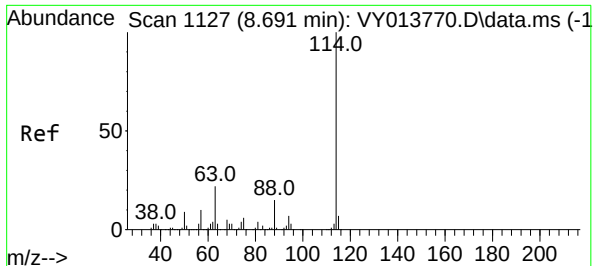
Tgt Ion: 56 Resp: 4290
Ion Ratio Lower Upper
56 100
69 141.5 25.8 38.6#
84 108.4 65.8 98.6#



#33
1,2-Dichloroethane-d4
Concen: 59.118 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. 0.006 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

Tgt Ion: 65 Resp: 130474
Ion Ratio Lower Upper
65 100
67 50.4 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

Instrument :

MSVOA_Y

ClientSampleId :

CB-32-G3-SO-18-051823

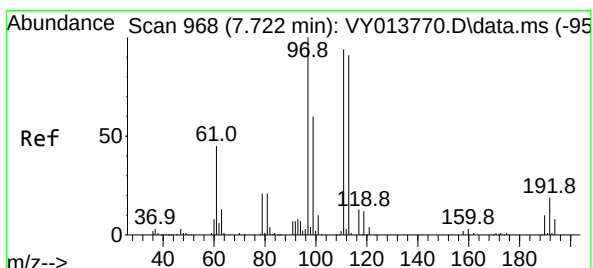
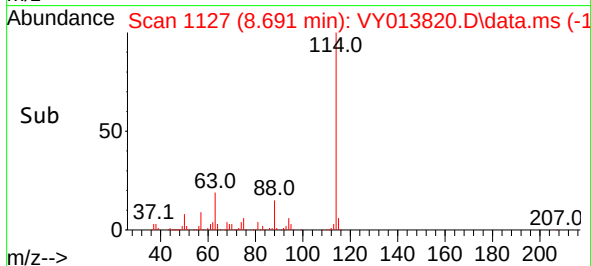
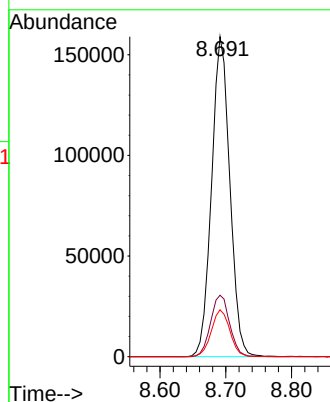
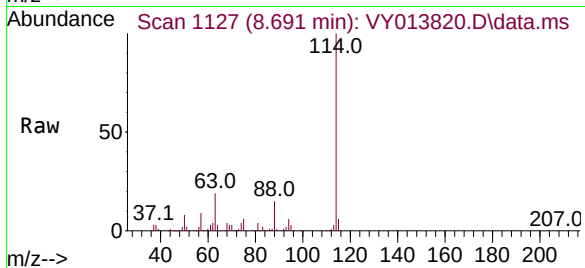
Tgt Ion:114 Resp: 306890

Ion Ratio Lower Upper

114 100

63 19.2 0.0 43.8

88 14.7 0.0 30.8



#35

Dibromofluoromethane

Concen: 51.949 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.000 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

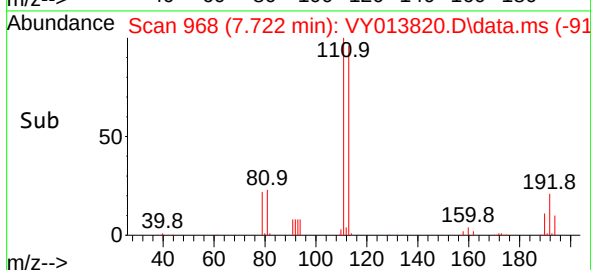
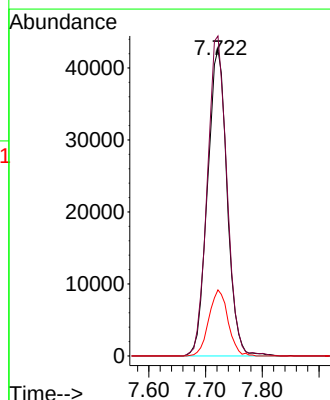
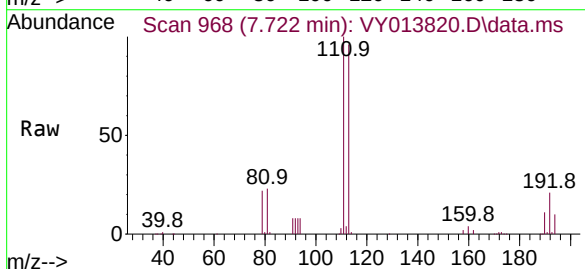
Tgt Ion:113 Resp: 102234

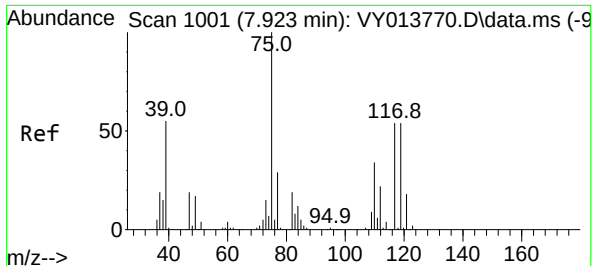
Ion Ratio Lower Upper

113 100

111 104.2 82.3 123.5

192 21.1 16.0 24.0





#36

1,1-Dichloropropene

Concen: 5.466 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

Instrument :

MSVOA_Y

ClientSampleId :

CB-32-G3-SO-18-051823

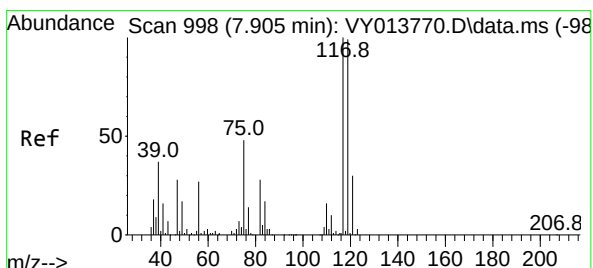
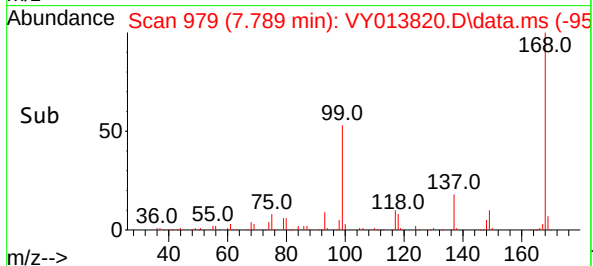
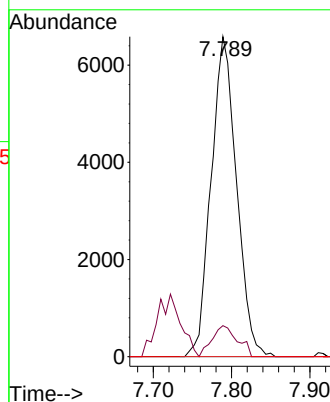
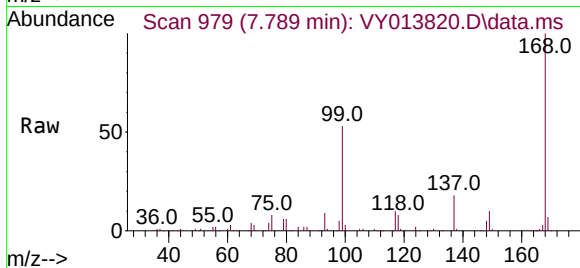
Tgt Ion: 75 Resp: 14863

Ion Ratio Lower Upper

75 100

110 9.7 17.3 51.7#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 6.516 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.116 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

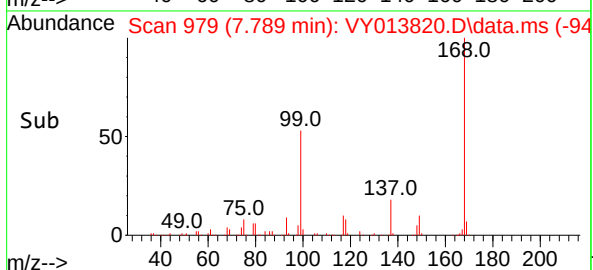
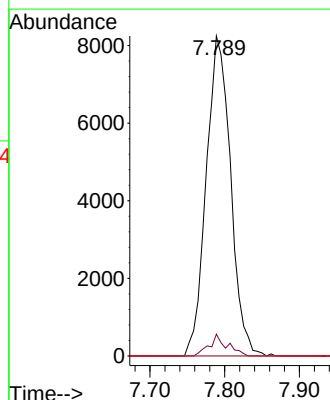
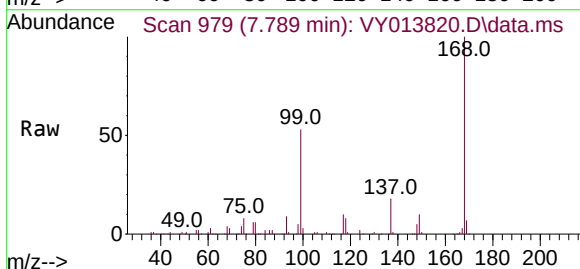
Tgt Ion: 117 Resp: 18691

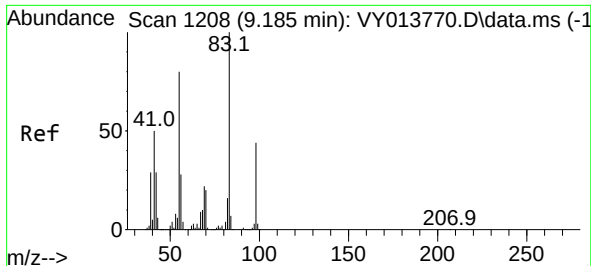
Ion Ratio Lower Upper

117 100

119 6.8 79.0 118.6#

121 0.0 24.1 36.1#





#39

Methylcyclohexane

Concen: 59.428 ug/l

RT: 8.941 min Scan# 1168

Delta R.T. -0.244 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

Instrument :

MSVOA_Y

ClientSampleId :

CB-32-G3-SO-18-051823

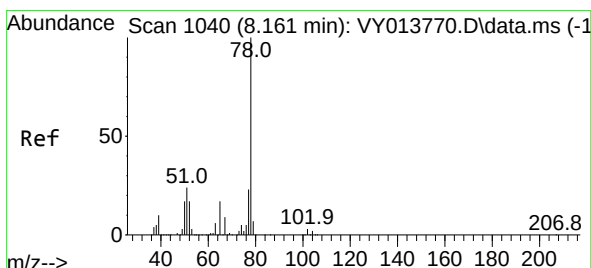
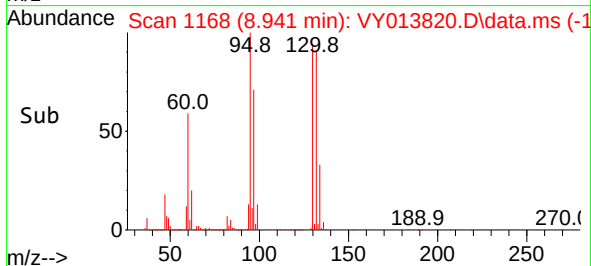
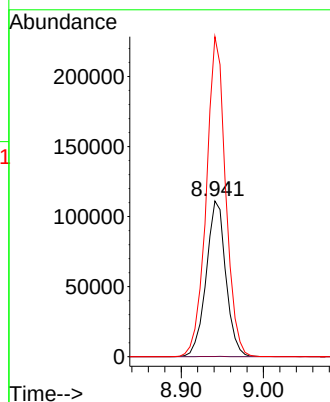
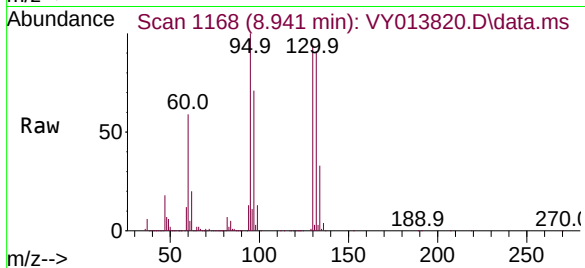
Tgt Ion: 83 Resp: 183665

Ion Ratio Lower Upper

83 100

55 0.1 63.7 95.5#

98 205.6 35.0 52.6#



#40

Benzene

Concen: 2.095 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY013820.D

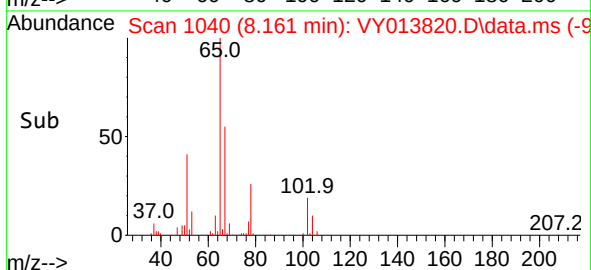
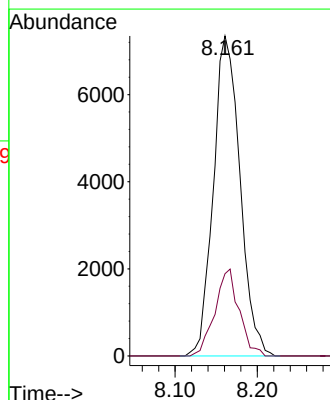
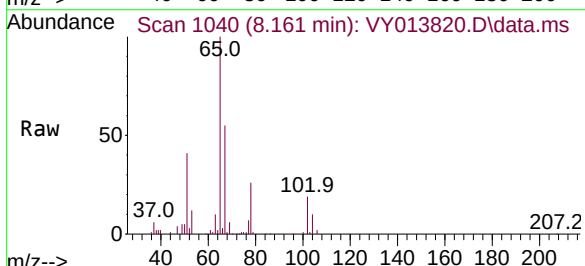
Acq: 19 May 2023 14:49

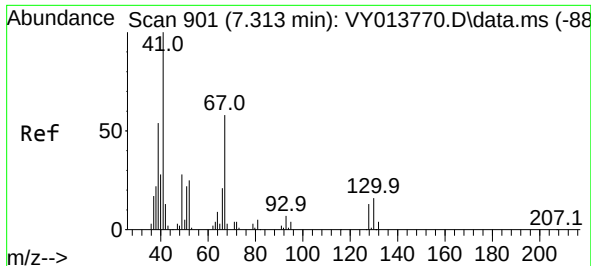
Tgt Ion: 78 Resp: 16558

Ion Ratio Lower Upper

78 100

77 25.7 18.6 27.8

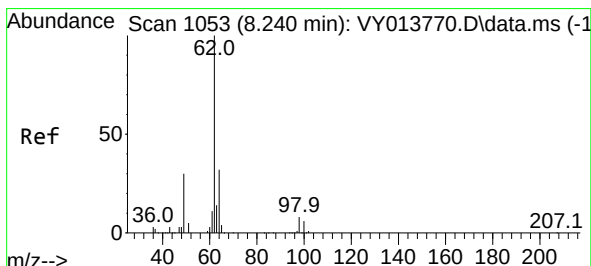
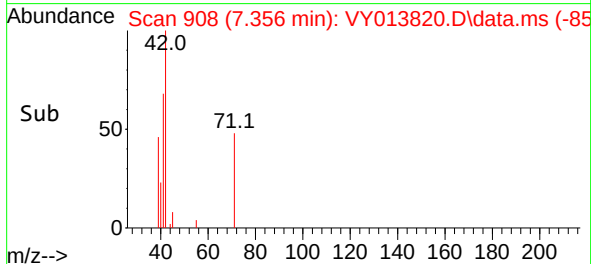
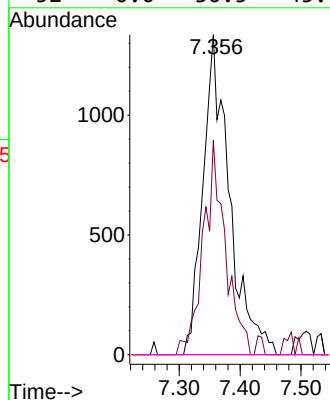
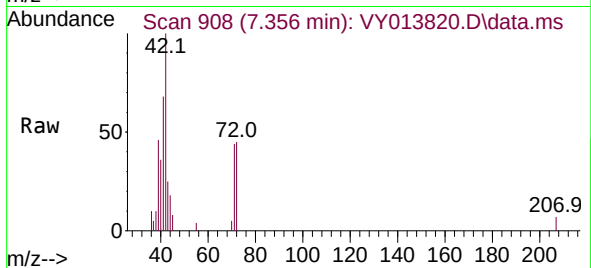




#41
Methacrylonitrile
Concen: 4.353 ug/l
RT: 7.356 min Scan# 901
Delta R.T. 0.043 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

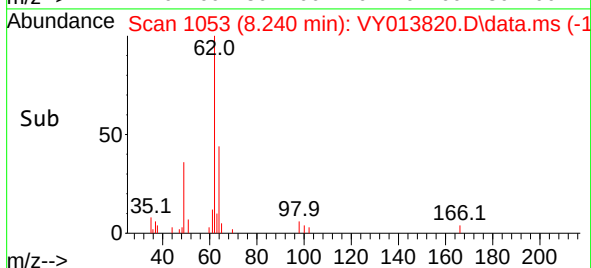
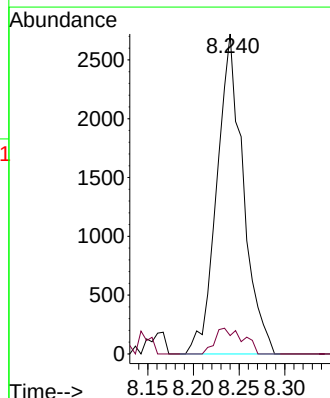
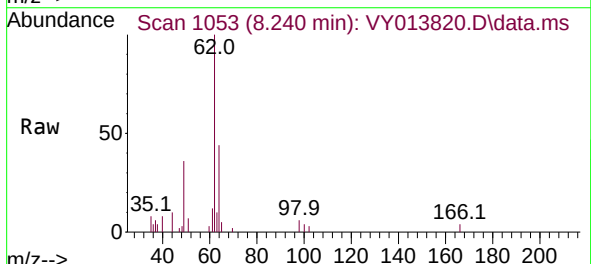
Instrument :
MSVOA_Y
ClientSampleId :
CB-32-G3-SO-18-051823

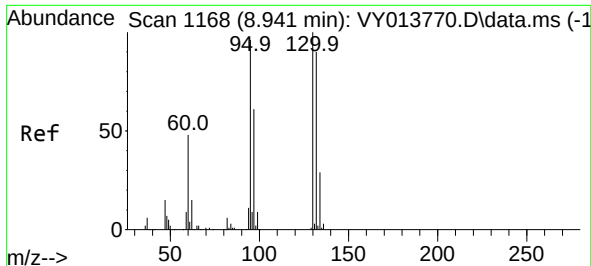
Tgt Ion:	41	Resp:	4046
Ion	Ratio	Lower	Upper
41	100		
39	55.6	59.5	89.3#
67	0.0	69.1	103.7#
52	0.0	30.5	45.7#



#42
1,2-Dichloroethane
Concen: 2.133 ug/l
RT: 8.240 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

Tgt Ion:	62	Resp:	5446
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	16.8





#44

Trichloroethene

Concen: 5854.380 ug/l

RT: 8.941 min Scan# 1168

Delta R.T. 0.000 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

Instrument :

MSVOA_Y

ClientSampleId :

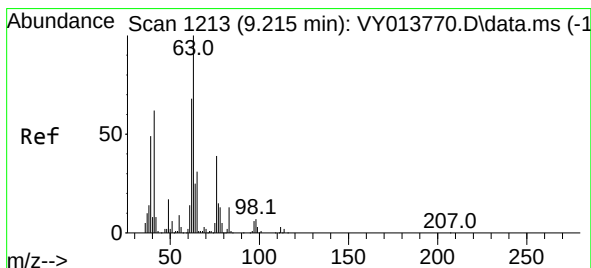
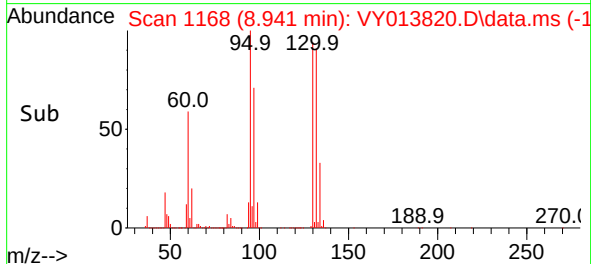
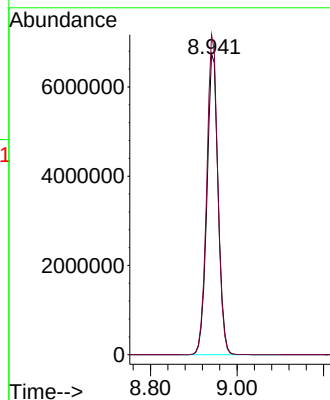
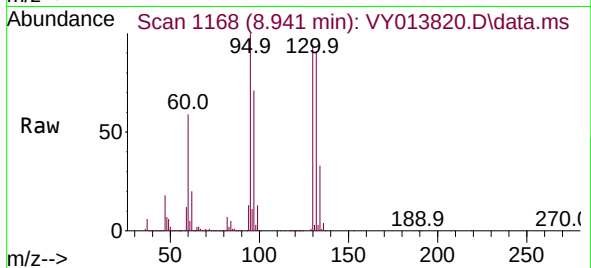
CB-32-G3-SO-18-051823

Tgt Ion:130 Resp:12092939

Ion Ratio Lower Upper

130 100

95 106.4 0.0 193.0



#45

1,2-Dichloropropane

Concen: 19.446 ug/l

RT: 8.941 min Scan# 1168

Delta R.T. -0.274 min

Lab File: VY013820.D

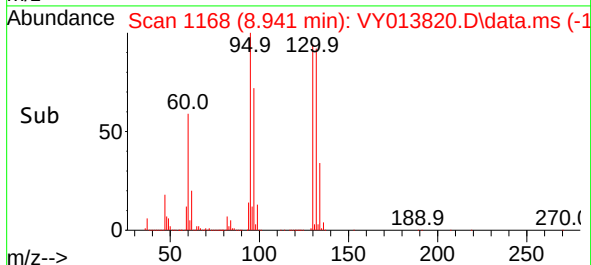
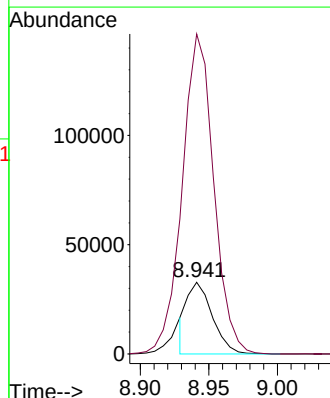
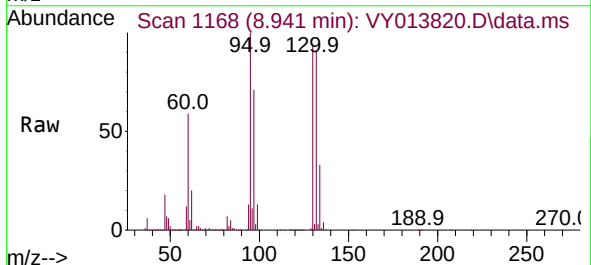
Acq: 19 May 2023 14:49

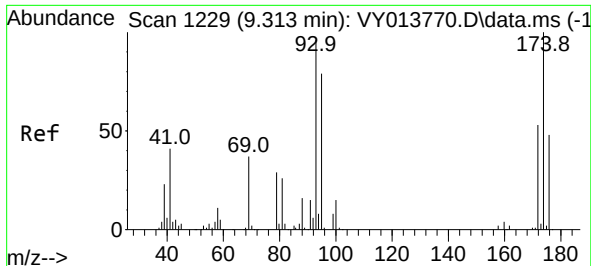
Tgt Ion: 63 Resp: 42223

Ion Ratio Lower Upper

63 100

65 446.5 24.9 37.3#





#49

1,4-Dioxane

Concen: 13.132 ug/l

RT: 9.319 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

Instrument :

MSVOA_Y

ClientSampleId :

CB-32-G3-SO-18-051823

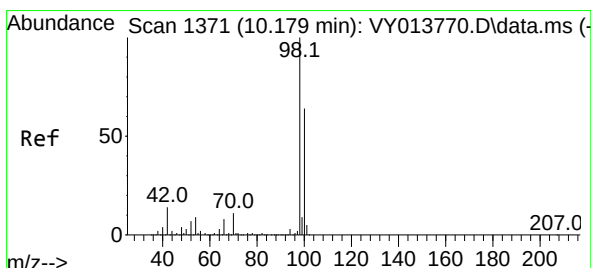
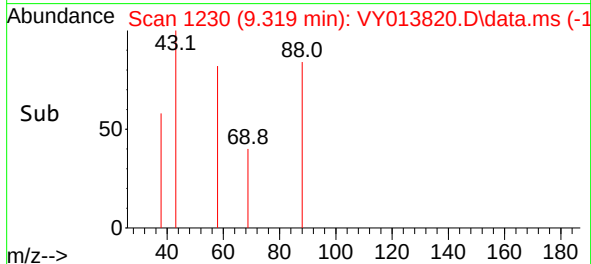
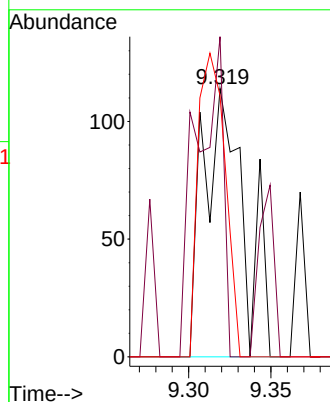
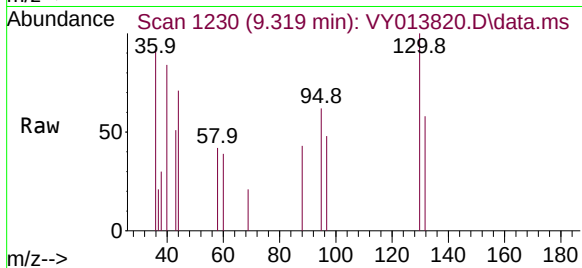
Tgt Ion: 88 Resp: 196

Ion Ratio Lower Upper

88 100

43 77.6 26.1 39.1#

58 75.0 62.2 93.2



#50

Toluene-d8

Concen: 49.553 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.000 min

Lab File: VY013820.D

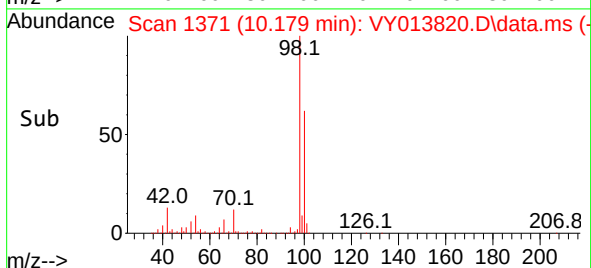
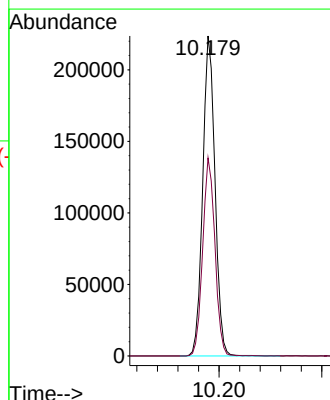
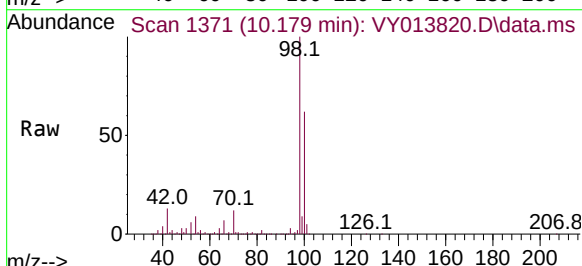
Acq: 19 May 2023 14:49

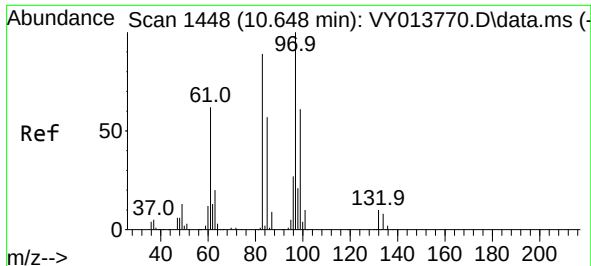
Tgt Ion: 98 Resp: 369703

Ion Ratio Lower Upper

98 100

100 61.9 51.0 76.6

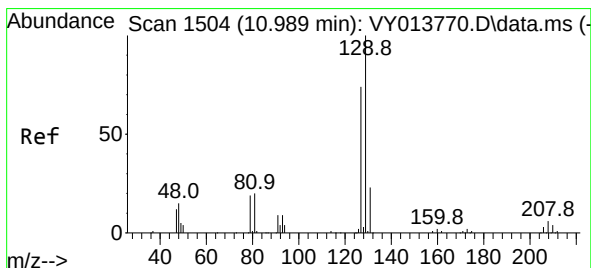
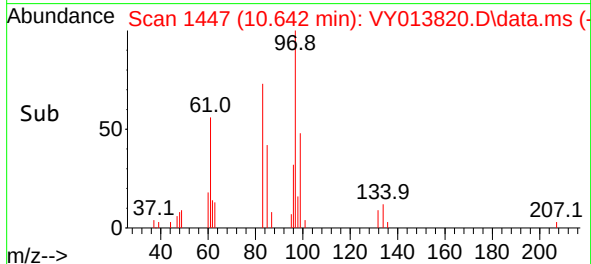
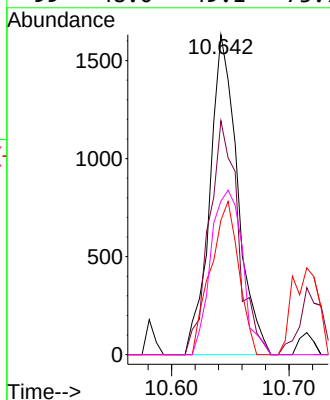
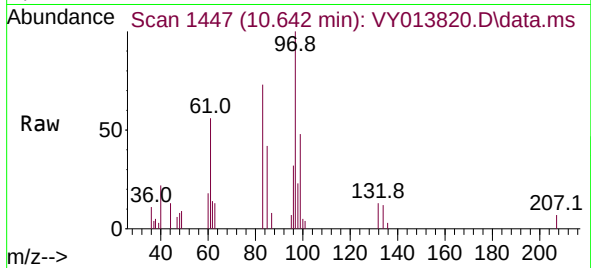




#55
1,1,2-Trichloroethane
Concen: 1.620 ug/l
RT: 10.642 min Scan# 1448
Delta R.T. -0.006 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

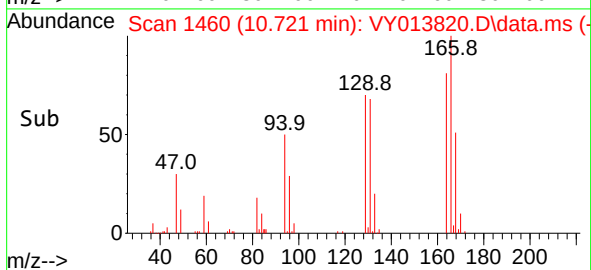
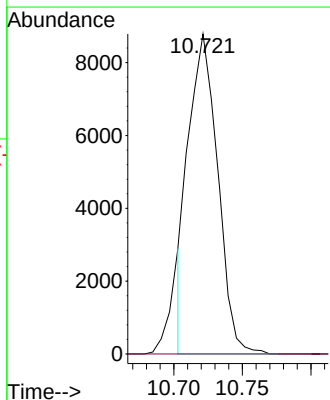
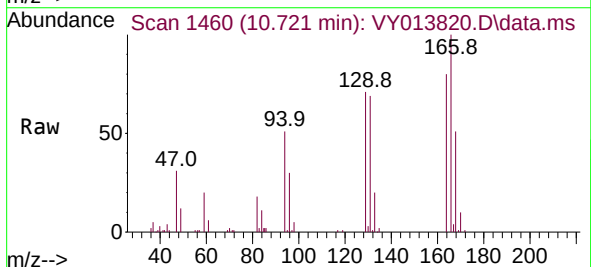
Instrument :
MSVOA_Y
ClientSampleId :
CB-32-G3-SO-18-051823

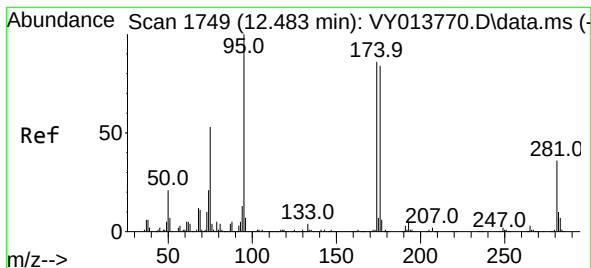
Tgt Ion: 97	Resp: 2680
Ion Ratio	Lower Upper
97 100	
83 73.1	71.1 106.7
85 42.0	45.7 68.5#
99 48.0	49.1 73.7#



#60
Dibromochloromethane
Concen: 6.490 ug/l
RT: 10.721 min Scan# 1460
Delta R.T. -0.268 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

Tgt Ion:129	Resp:	13006	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.6	115.7#





#62

4-Bromofluorobenzene

Concen: 49.103 ug/l

RT: 12.483 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

Instrument :

MSVOA_Y

ClientSampleId :

CB-32-G3-SO-18-051823

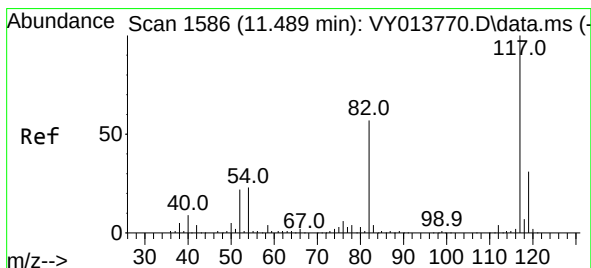
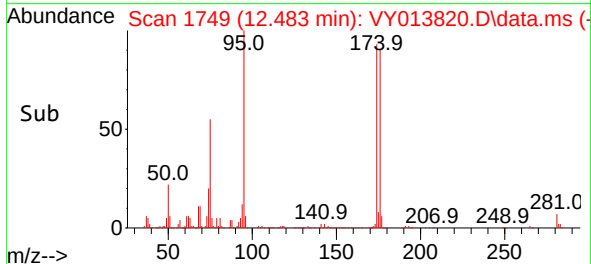
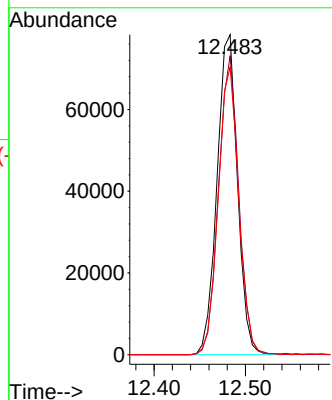
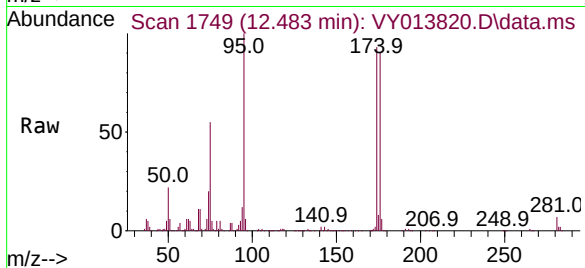
Tgt Ion: 95 Resp: 121684

Ion Ratio Lower Upper

95 100

174 92.6 0.0 168.8

176 90.0 0.0 165.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

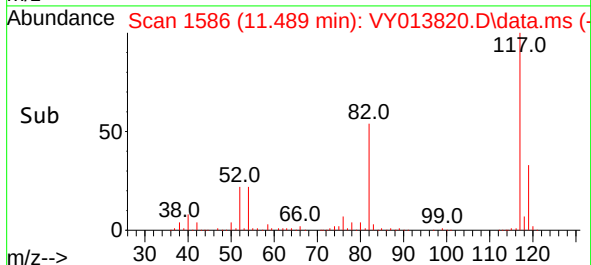
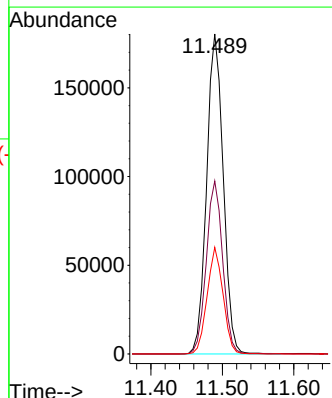
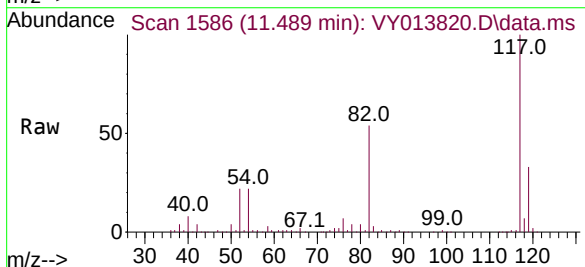
Tgt Ion: 117 Resp: 290805

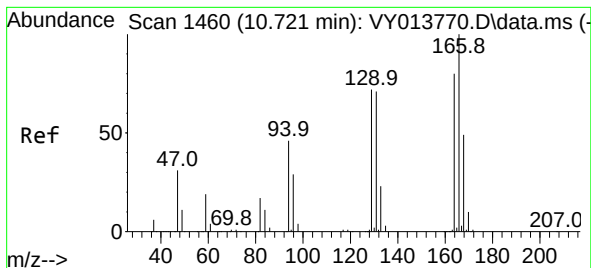
Ion Ratio Lower Upper

117 100

82 54.1 45.5 68.3

119 33.3 24.8 37.2





#64

Tetrachloroethene

Concen: 9.081 ug/l

RT: 10.721 min Scan# 1460

Delta R.T. 0.000 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

Instrument :

MSVOA_Y

ClientSampleId :

CB-32-G3-SO-18-051823

Tgt Ion:164 Resp: 16753

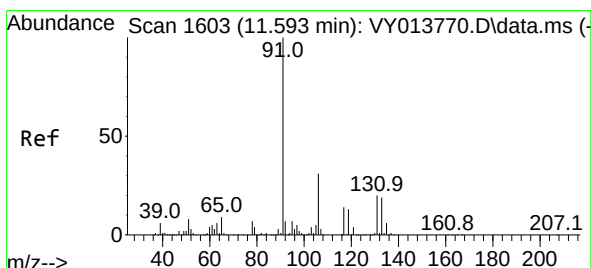
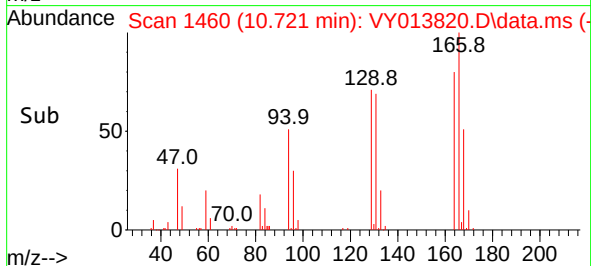
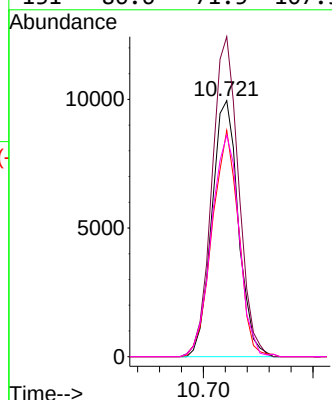
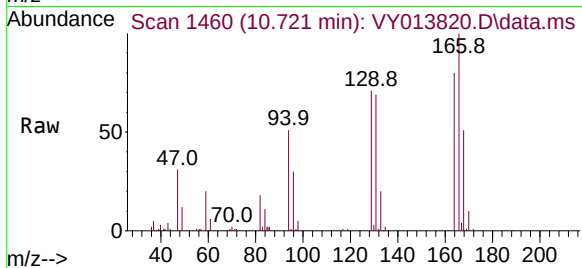
Ion Ratio Lower Upper

164 100

166 125.0 100.5 150.7

129 88.3 72.5 108.7

131 86.6 71.5 107.3



#67

Ethyl Benzene

Concen: 1.243 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.000 min

Lab File: VY013820.D

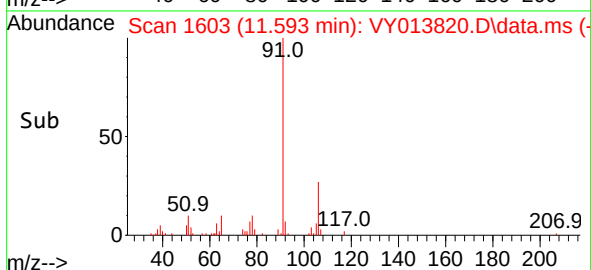
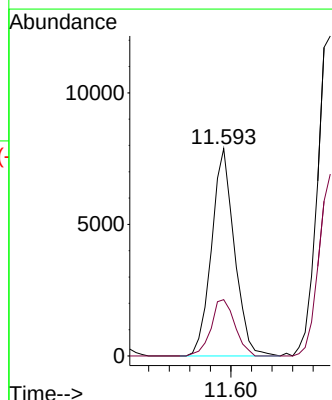
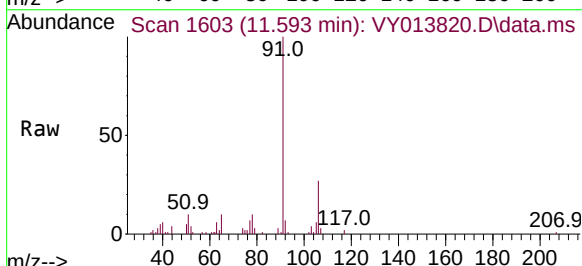
Acq: 19 May 2023 14:49

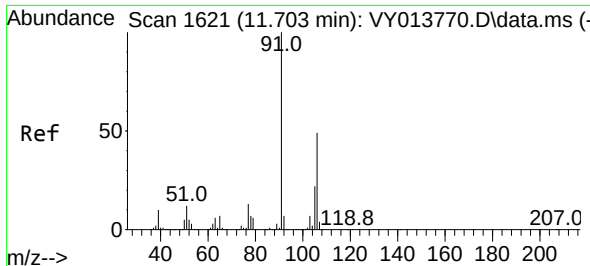
Tgt Ion: 91 Resp: 12156

Ion Ratio Lower Upper

91 100

106 27.2 25.0 37.6

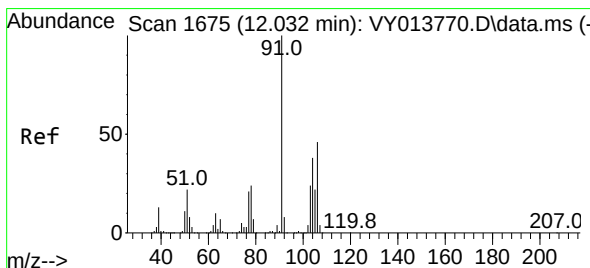
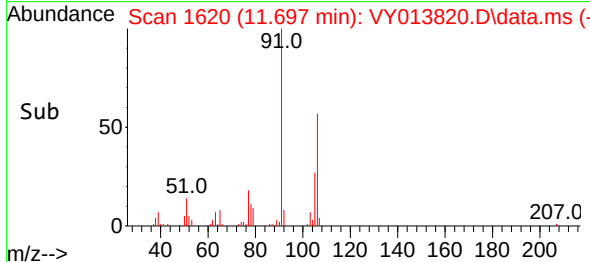
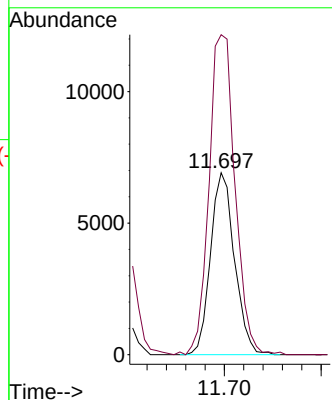
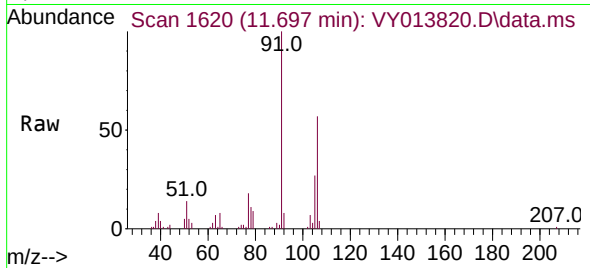




#68
m/p-Xylenes
Concen: 3.253 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

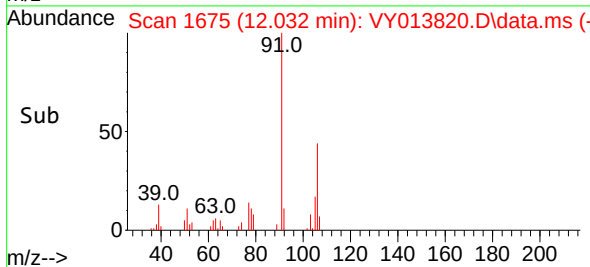
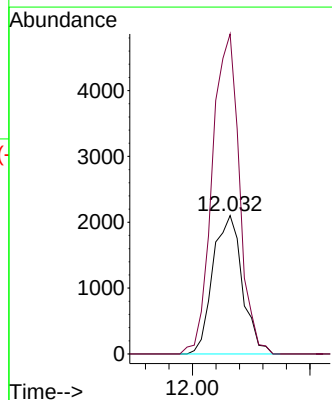
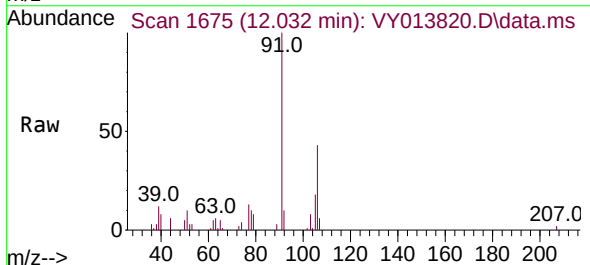
Instrument :
MSVOA_Y
ClientSampleId :
CB-32-G3-SO-18-051823

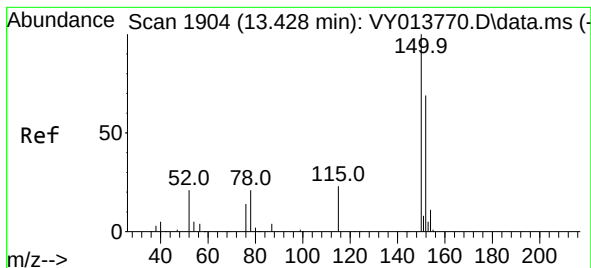
Tgt Ion:106 Resp: 11916
Ion Ratio Lower Upper
106 100
91 190.8 164.0 246.0



#69
o-Xylene
Concen: 1.050 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VY013820.D
Acq: 19 May 2023 14:49

Tgt Ion:106 Resp: 3659
Ion Ratio Lower Upper
106 100
91 213.1 108.4 325.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1904

Delta R.T. -0.006 min

Lab File: VY013820.D

Acq: 19 May 2023 14:49

Instrument :

MSVOA_Y

ClientSampleId :

CB-32-G3-SO-18-051823

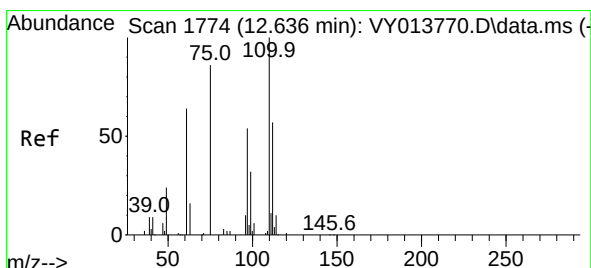
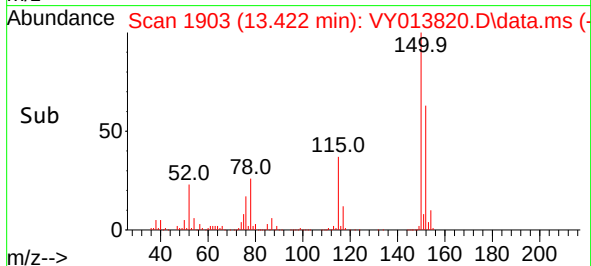
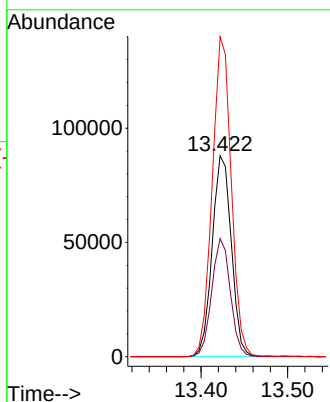
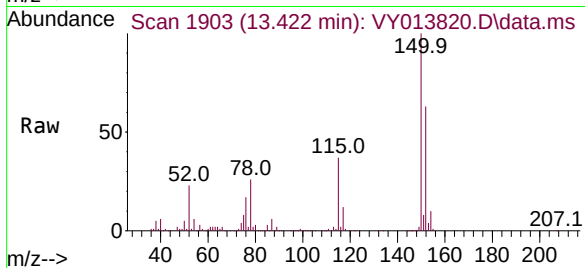
Tgt Ion:152 Resp: 135231

Ion Ratio Lower Upper

152 100

115 57.2 28.5 85.5

150 157.7 0.0 347.0



#76

1,2,3-Trichloropropane

Concen: 42.432 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.159 min

Lab File: VY013820.D

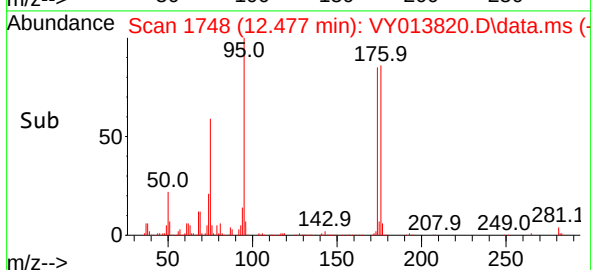
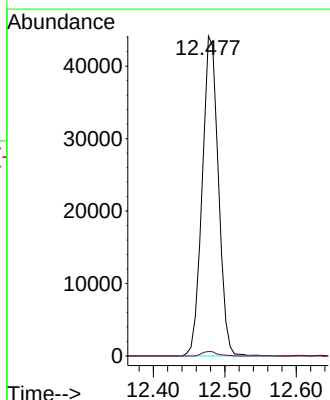
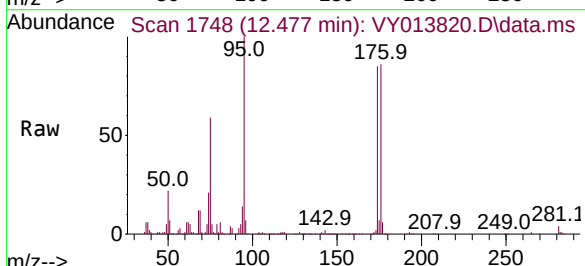
Acq: 19 May 2023 14:49

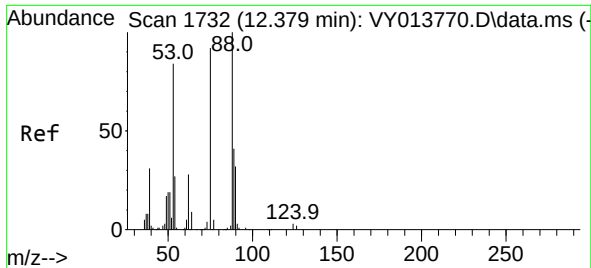
Tgt Ion: 75 Resp: 69446

Ion Ratio Lower Upper

75 100

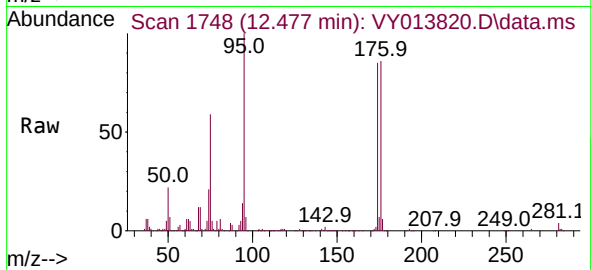
77 1.3 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 94.469 ug/l
 RT: 12.477 min Scan# 11
 Delta R.T. 0.098 min
 Lab File: VY013820.D
 Acq: 19 May 2023 14:49

Instrument :
 MSVOA_Y
 ClientSampleId :
 CB-32-G3-SO-18-051823



Tgt Ion: 75 Resp: 69446
 Ion Ratio Lower Upper
 75 100
 53 0.1 75.3 112.9#
 89 0.0 35.4 53.2#

