

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100322\
 Data File : VY010770.D
 Acq On : 03 Oct 2022 16:50
 Operator : KP/MD
 Sample : N4862-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VNJ-203

Quant Time: Oct 04 07:31:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100322S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 04 07:26:22 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.789	168	177223	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	318265	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	251603	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	90601	50.000	ug/l	# 0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	107330	59.748	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 119.500%	
35) Dibromofluoromethane	7.716	113	101858	48.213	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 96.420%	
50) Toluene-d8	10.179	98	335155	46.388	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 92.780%	
62) 4-Bromofluorobenzene	12.477	95	101651	34.901	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 69.800%	

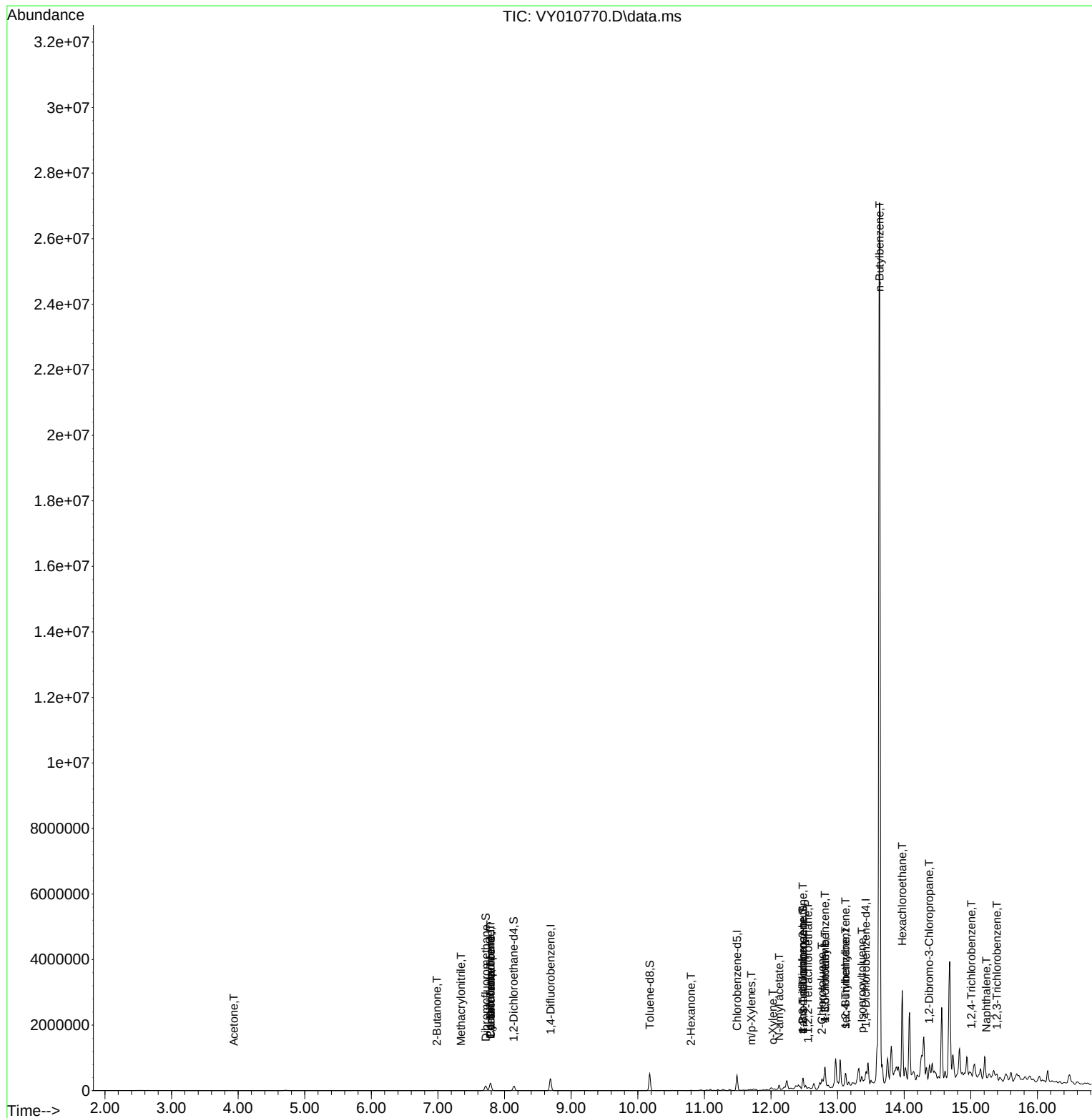
Target Compounds				Qvalue		
11) Tert butyl alcohol	4.942	59	1389	Below Cal	#	77
13) Acrolein	3.735	56	21	Below Cal	#	14
16) Acetone	3.936	43	1109	2.431	ug/l	93
20) Methylene Chloride	4.710	84	9783	Below Cal	#	77
25) 2-Butanone	6.984	43	1066	1.625	ug/l	# 85
31) Cyclohexane	7.789	56	3875	1.205	ug/l	# 1
36) 1,1-Dichloropropene	7.789	75	13420	4.400	ug/l	# 51
38) Carbon Tetrachloride	7.789	117	17395	5.476	ug/l	# 16
41) Methacrylonitrile	7.344	41	29	2.613	ug/l	# 1
59) 2-Hexanone	10.801	43	4192	4.084	ug/l	# 31
68) m/p-Xylenes	11.703	106	6110	1.665	ug/l	97
69) o-Xylene	12.026	106	5814	1.695	ug/l	97
74) N-amyl acetate	12.124	43	28241	18.449	ug/l	# 74
75) 1,1,2,2-Tetrachloroethane	12.557	83	1352	1.086	ug/l	# 34
76) 1,2,3-Trichloropropane	12.477	75	51120	55.716	ug/l	# 100
79) 2-Chlorotoluene	12.764	91	18628	4.105	ug/l	# 45
80) 1,3,5-Trimethylbenzene	12.813	105	225837	40.088	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	51120	116.386	ug/l	# 9
82) 4-Chlorotoluene	12.813	91	26007	5.480	ug/l	# 48
84) 1,2,4-Trimethylbenzene	13.117	105	189904	34.287	ug/l	97
85) sec-Butylbenzene	13.117	105	189904	26.268	ug/l	# 56
86) p-Isopropyltoluene	13.367	119	50309	8.294	ug/l	# 76
89) n-Butylbenzene	13.630	91	2571210	460.663	ug/l	# 43
90) Hexachloroethane	13.971	117	120808	104.129	ug/l	# 6
92) 1,2-Dibromo-3-Chloropr...	14.373	75	1389	6.941	ug/l	# 6
93) 1,2,4-Trichlorobenzene	15.007	180	2222	1.401	ug/l	# 1
95) Naphthalene	15.233	128	4335	1.434	ug/l	# 61
96) 1,2,3-Trichlorobenzene	15.391	180	2982	2.206	ug/l	# 1

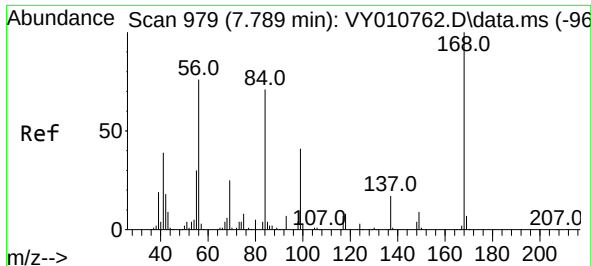
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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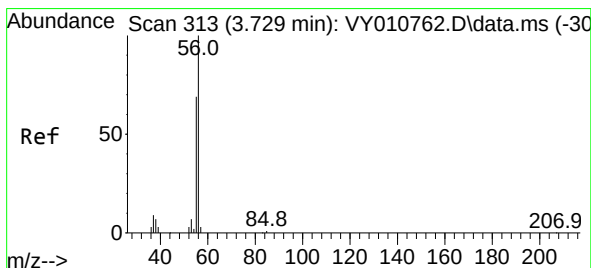
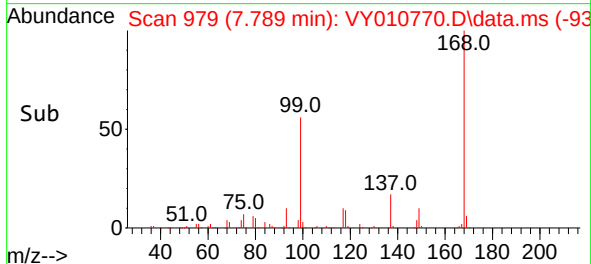
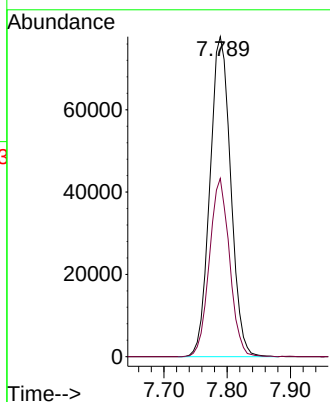
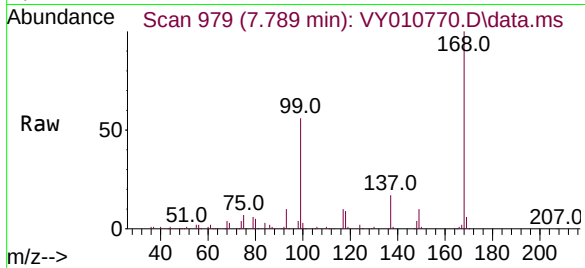




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

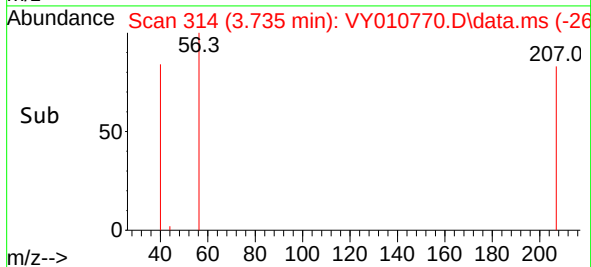
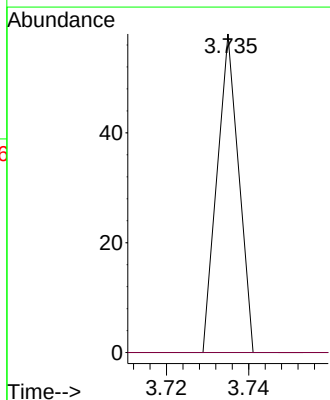
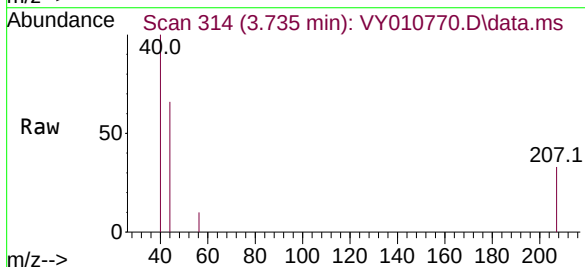
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-203

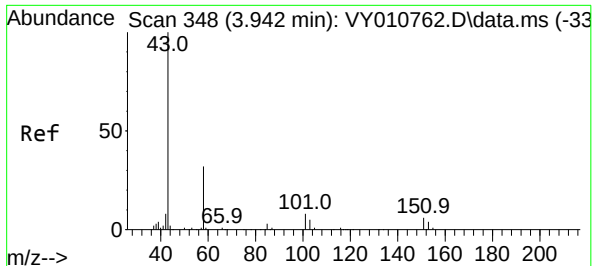
Tgt Ion:168 Resp: 177223
Ion Ratio Lower Upper
168 100
99 55.7 46.9 70.3



#13
Acrolein
Concen: Below Cal
RT: 3.735 min Scan# 314
Delta R.T. 0.006 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

Tgt Ion: 56 Resp: 21
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#

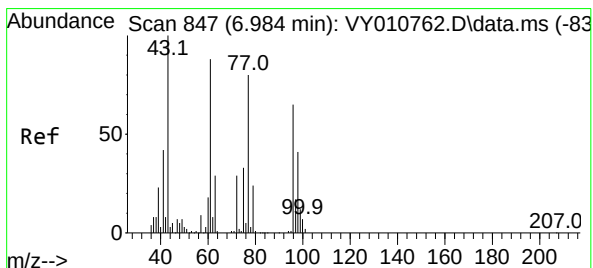
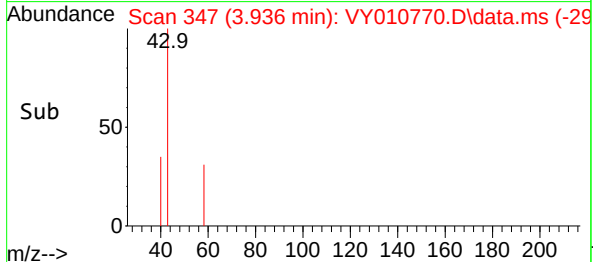
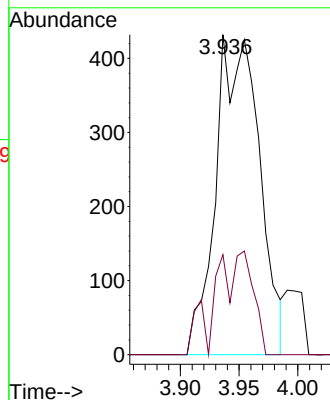
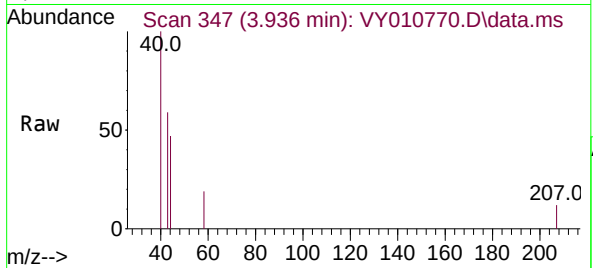




#16
Acetone
Concen: 2.431 ug/l
RT: 3.936 min Scan# 348
Delta R.T. -0.006 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

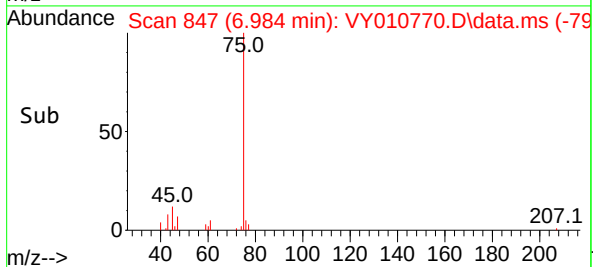
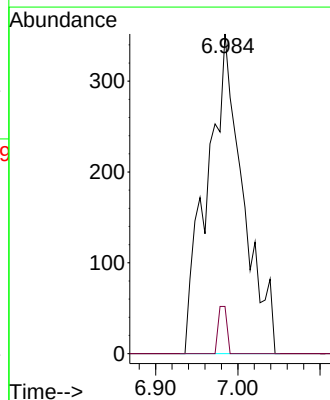
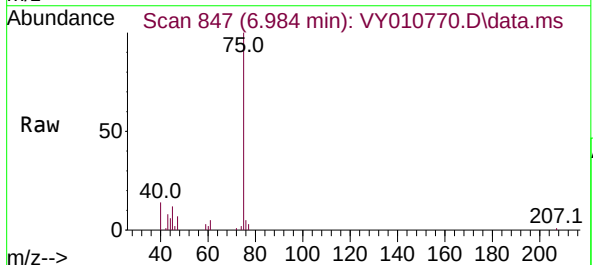
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-203

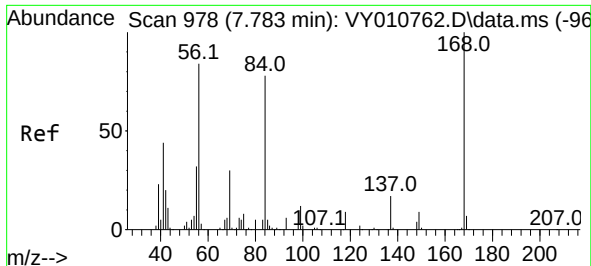
Tgt Ion: 43 Resp: 1109
Ion Ratio Lower Upper
43 100
58 31.3 22.0 33.0



#25
2-Butanone
Concen: 1.625 ug/l
RT: 6.984 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

Tgt Ion: 43 Resp: 1066
Ion Ratio Lower Upper
43 100
72 14.8 17.7 26.5#

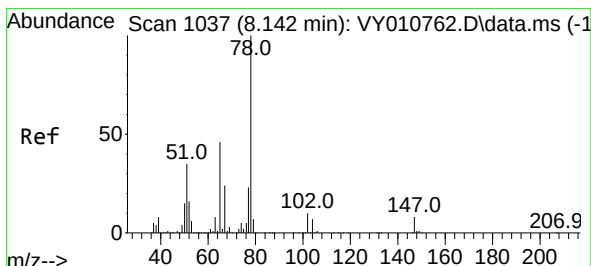
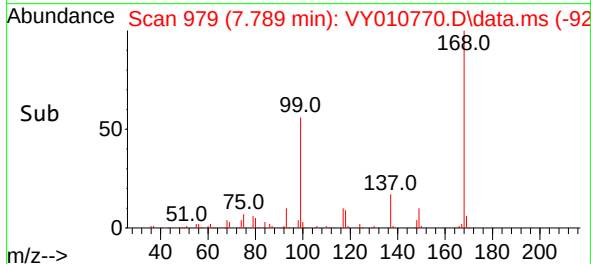
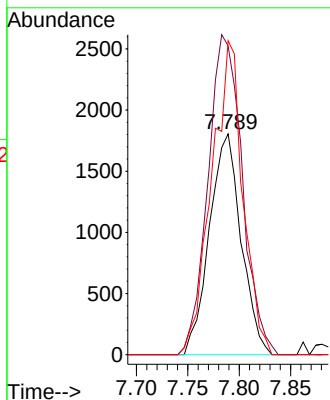
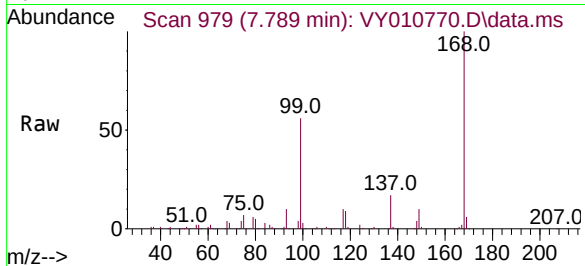




#31
Cyclohexane
Concen: 1.205 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

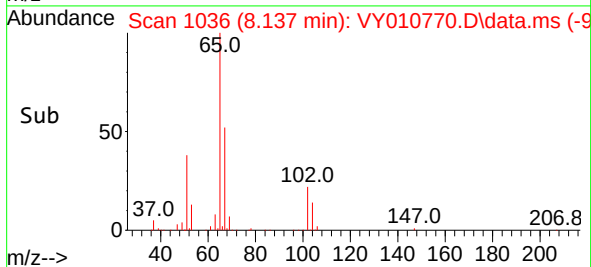
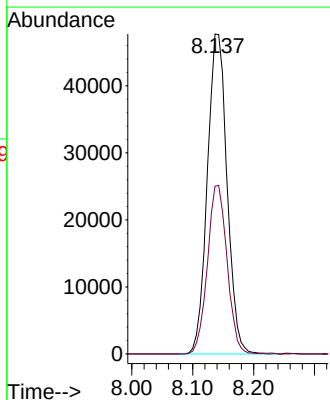
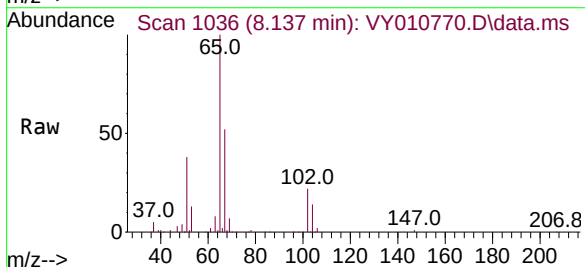
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-203

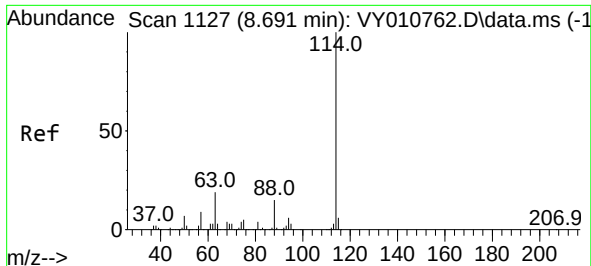
Tgt Ion: 56 Resp: 3875
Ion Ratio Lower Upper
56 100
69 139.8 26.7 40.1#
84 142.1 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 59.748 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. -0.005 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

Tgt Ion: 65 Resp: 107330
Ion Ratio Lower Upper
65 100
67 52.5 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

VNJ-203

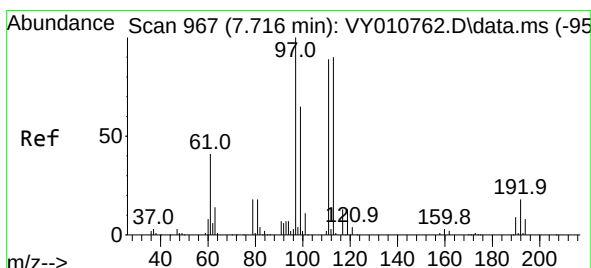
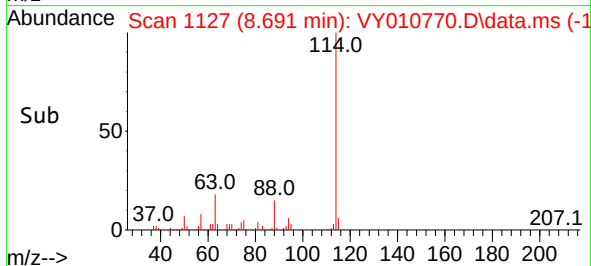
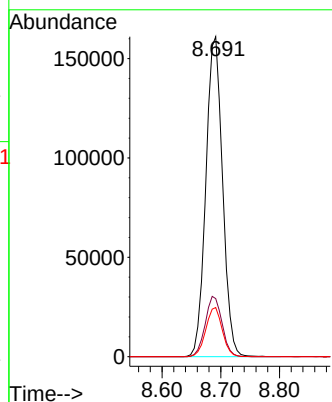
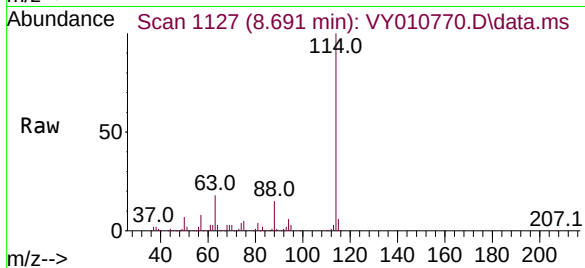
Tgt Ion:114 Resp: 318265

Ion Ratio Lower Upper

114 100

63 18.1 0.0 43.2

88 15.4 0.0 31.8



#35

Dibromofluoromethane

Concen: 48.213 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

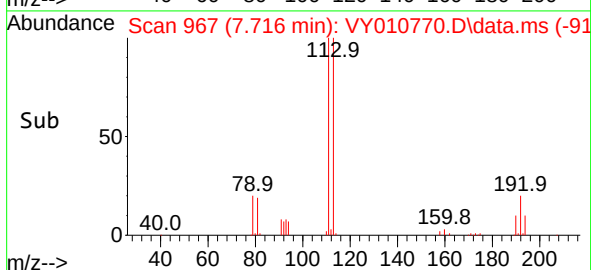
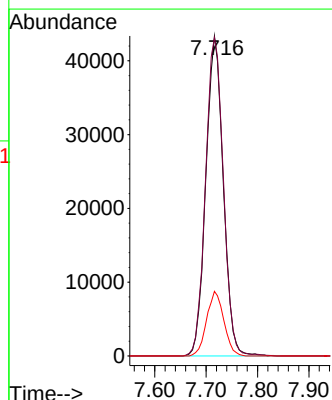
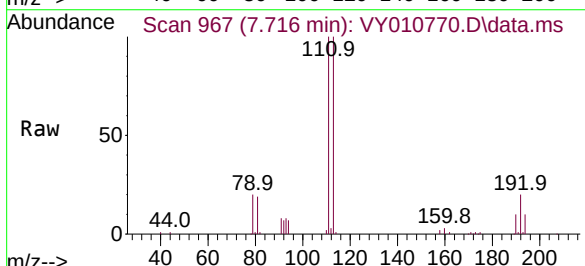
Tgt Ion:113 Resp: 101858

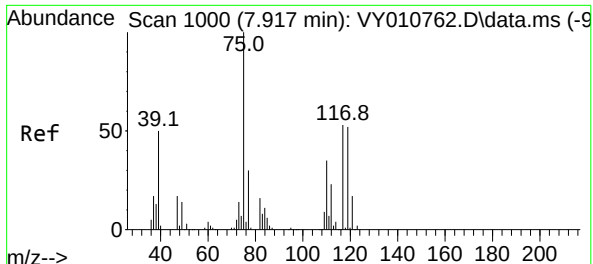
Ion Ratio Lower Upper

113 100

111 102.3 82.6 124.0

192 20.0 17.6 26.4





#36

1,1-Dichloropropene

Concen: 4.400 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

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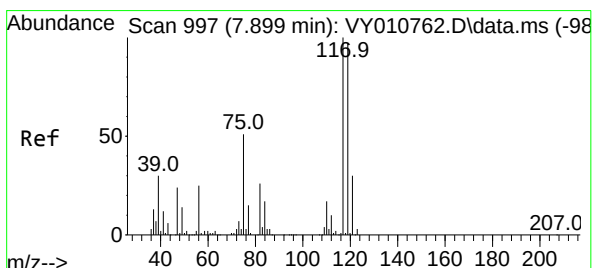
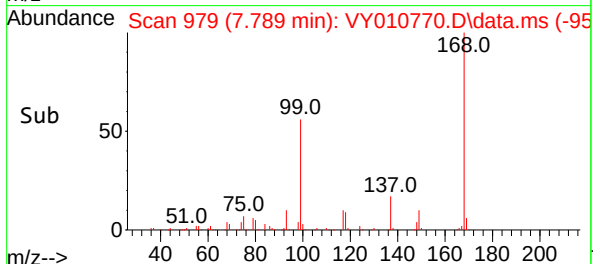
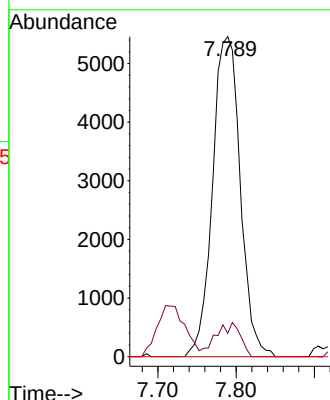
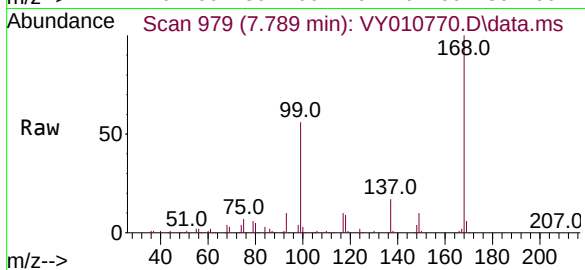
Tgt Ion: 75 Resp: 13420

Ion Ratio Lower Upper

75 100

110 9.4 17.1 51.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.476 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

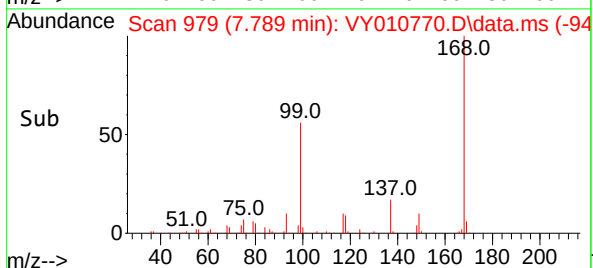
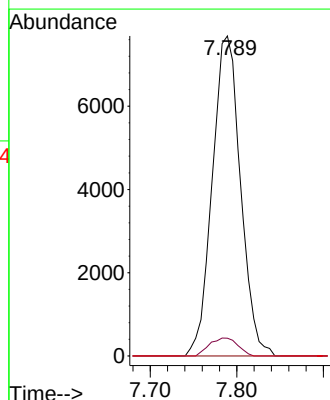
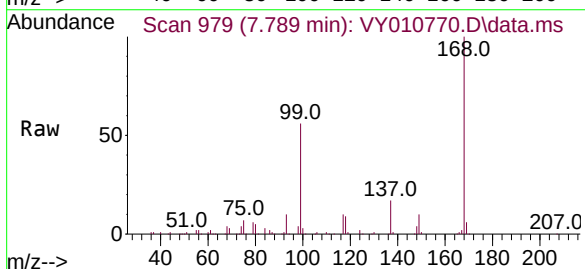
Tgt Ion: 117 Resp: 17395

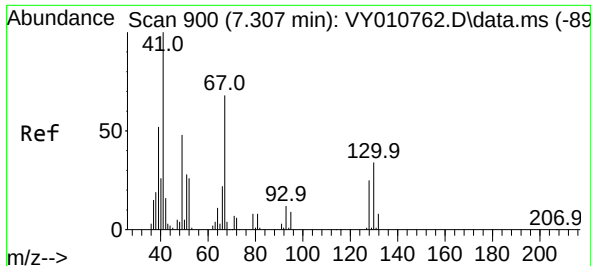
Ion Ratio Lower Upper

117 100

119 5.5 77.9 116.9#

121 0.0 24.8 37.2#

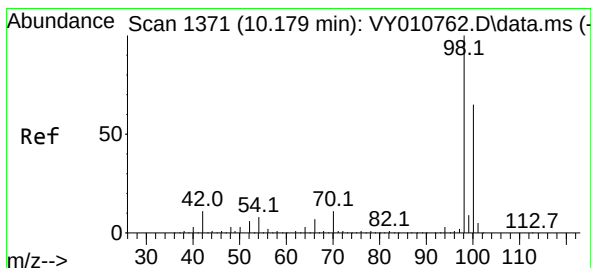
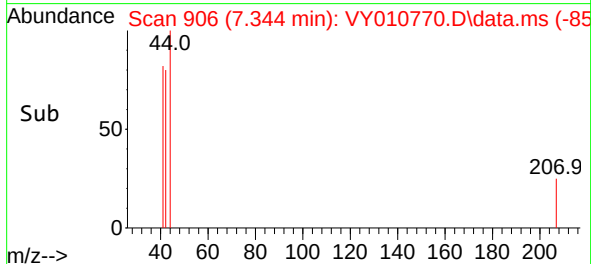
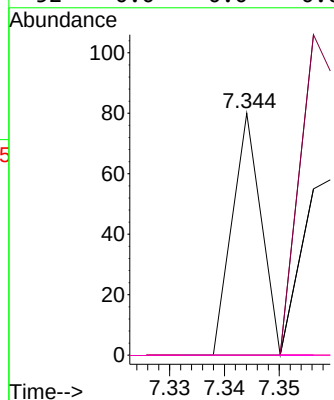
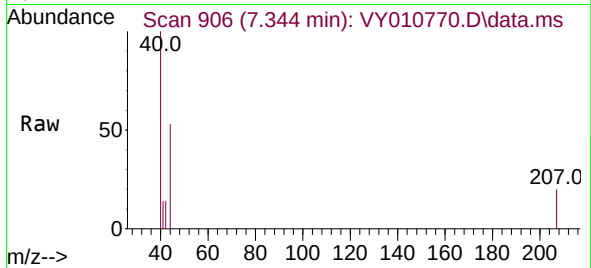




#41
Methacrylonitrile
Concen: 2.613 ug/l
RT: 7.344 min Scan# 906
Delta R.T. 0.037 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

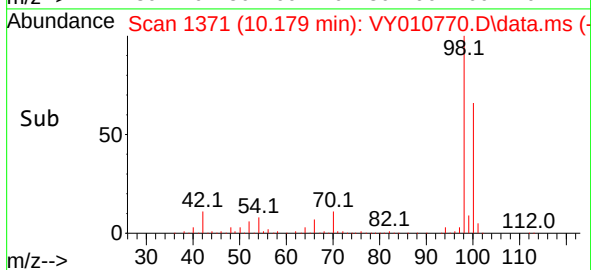
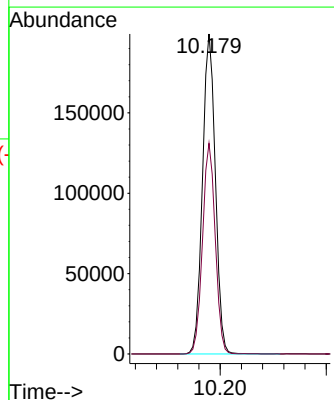
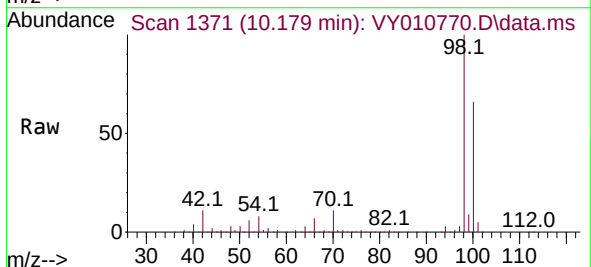
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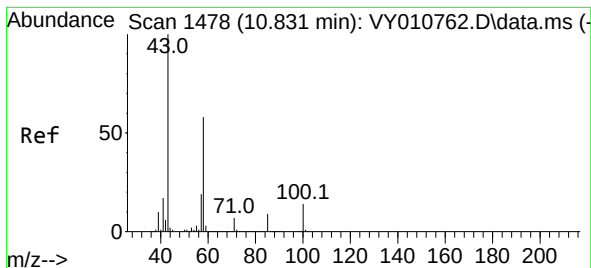
Tgt Ion: 41	Resp: 29
Ion Ratio	Lower Upper
41 100	
39 0.0	92.9 139.3#
67 0.0	0.0 0.0
52 0.0	0.0 0.0



#50
Toluene-d8
Concen: 46.388 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

Tgt Ion: 98	Resp: 335155
Ion Ratio	Lower Upper
98 100	
100 65.0	50.2 75.2

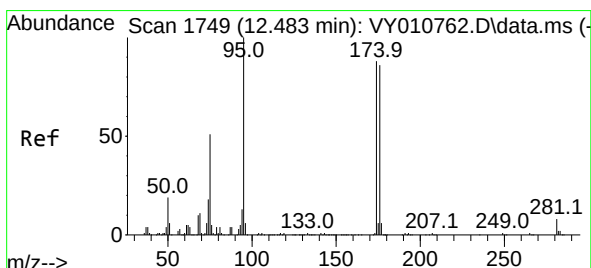
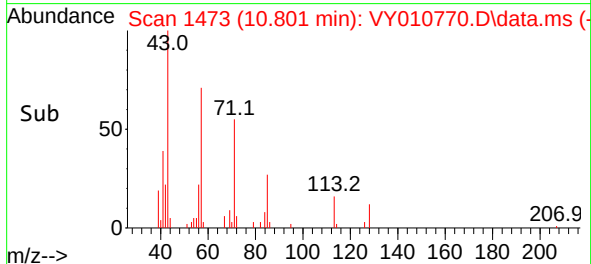
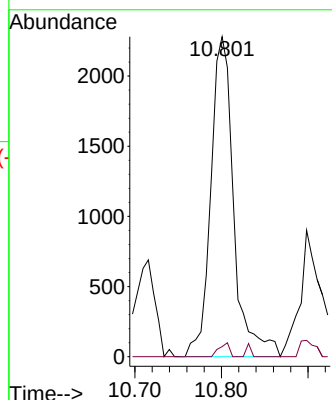
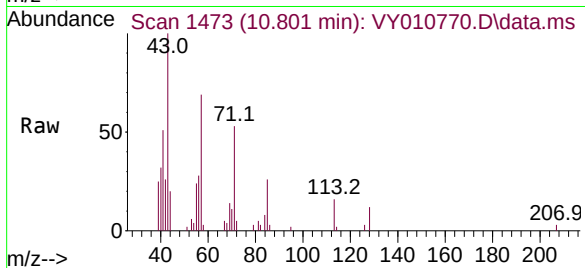




#59
2-Hexanone
Concen: 4.084 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.030 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

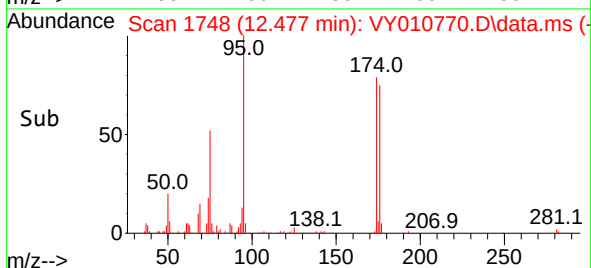
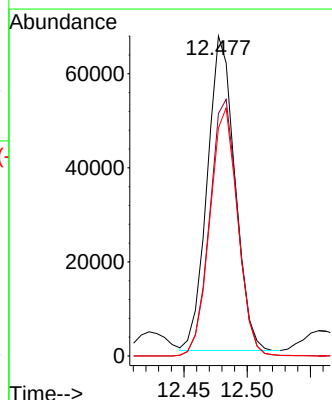
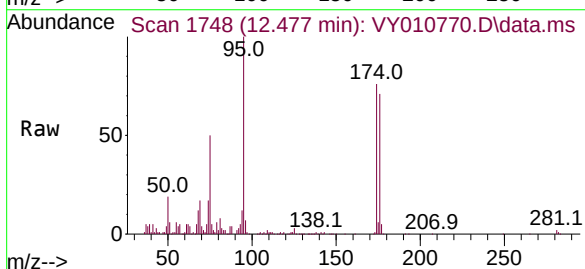
Instrument :
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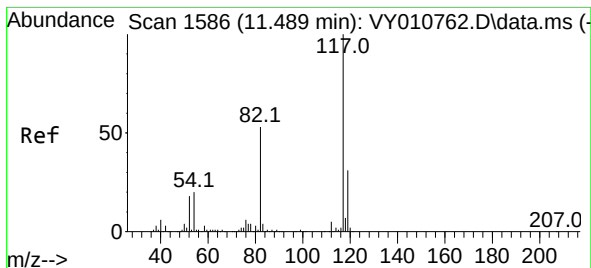
Tgt Ion: 43 Resp: 4192
Ion Ratio Lower Upper
43 100
58 2.0 24.4 73.4#



#62
4-Bromofluorobenzene
Concen: 34.901 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

Tgt Ion: 95 Resp: 101651
Ion Ratio Lower Upper
95 100
174 82.7 0.0 177.0
176 79.5 0.0 175.8

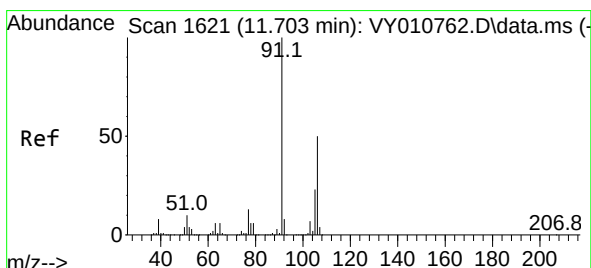
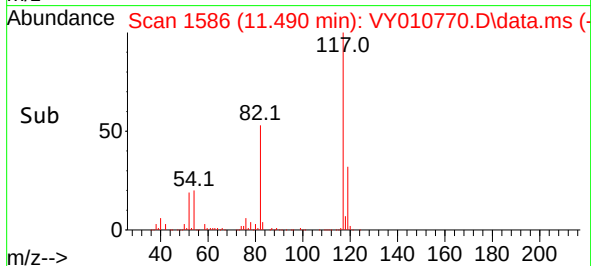
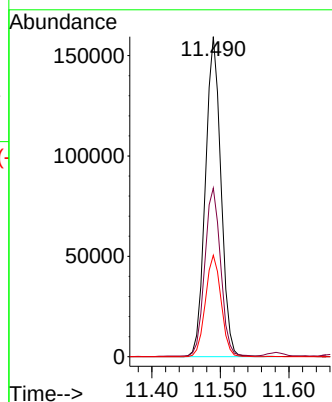
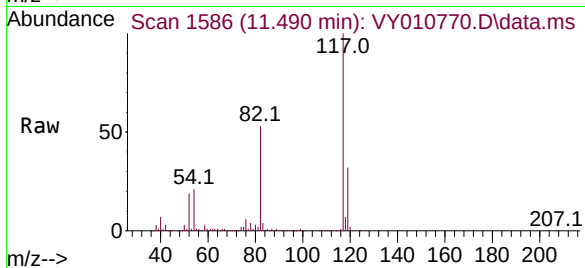




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 117
Delta R.T. 0.001 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

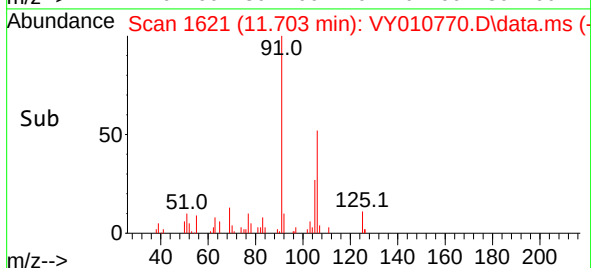
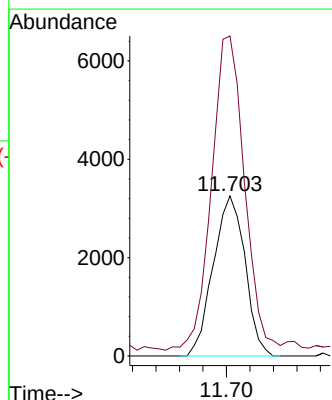
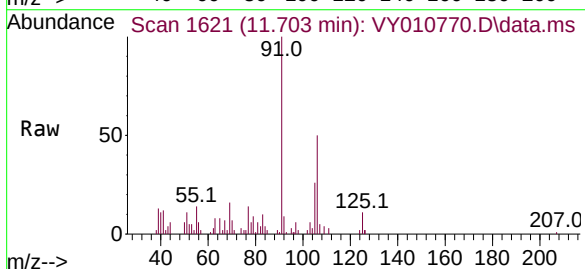
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-203

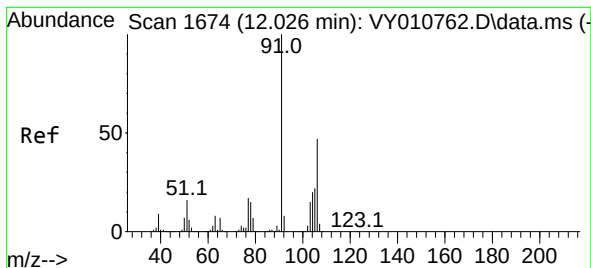
Tgt Ion:117 Resp: 251603
Ion Ratio Lower Upper
117 100
82 52.5 43.0 64.4
119 31.7 25.4 38.0



#68
m/p-Xylenes
Concen: 1.665 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.000 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

Tgt Ion:106 Resp: 6110
Ion Ratio Lower Upper
106 100
91 203.1 166.6 249.8





#69

o-Xylene

Concen: 1.695 ug/l

RT: 12.026 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

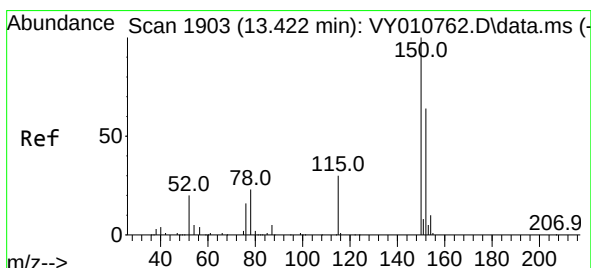
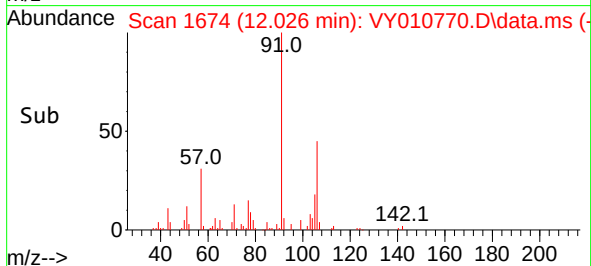
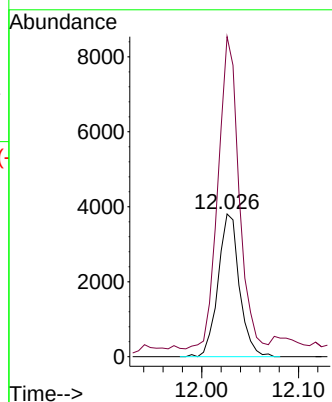
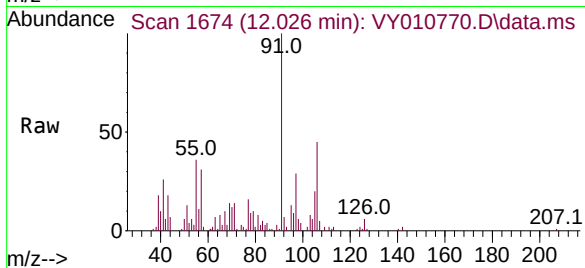
VNJ-203

Tgt Ion:106 Resp: 5814

Ion Ratio Lower Upper

106 100

91 215.5 110.3 331.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

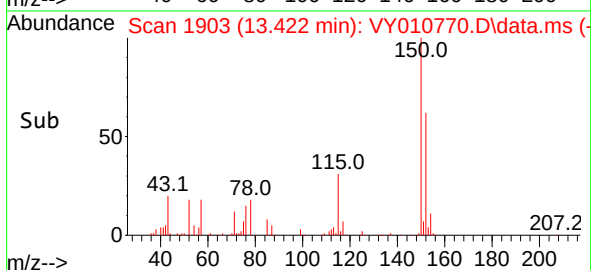
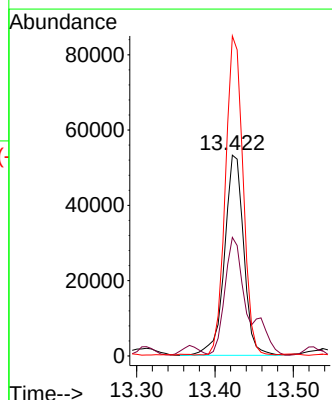
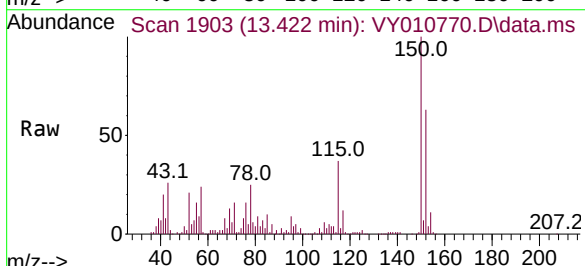
Tgt Ion:152 Resp: 90601

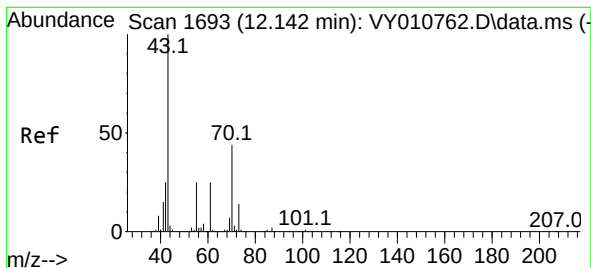
Ion Ratio Lower Upper

152 100

115 0.0 28.2 84.7#

150 145.7 0.0 347.6





#74

N-amy1 acetate

Concen: 18.449 ug/l

RT: 12.124 min Scan# 1

Delta R.T. -0.018 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

VNJ-203

Tgt Ion: 43 Resp: 28241

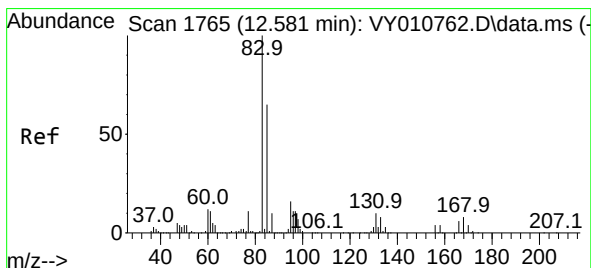
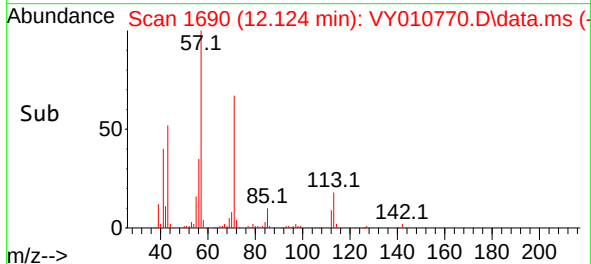
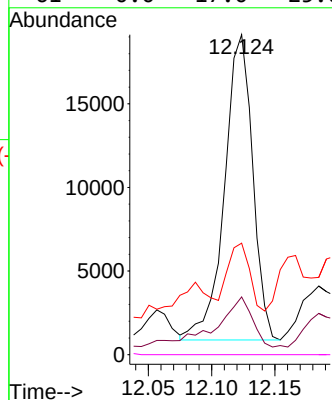
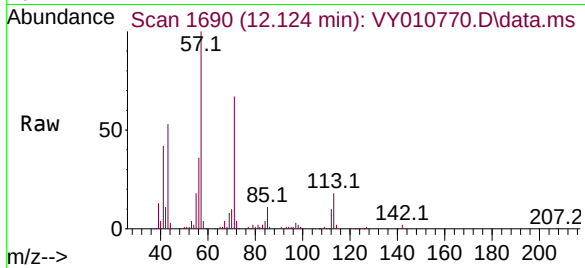
Ion Ratio Lower Upper

43 100

70 21.9 28.7 43.1#

55 16.8 17.3 25.9#

61 0.0 17.0 25.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.086 ug/l

RT: 12.557 min Scan# 1761

Delta R.T. -0.024 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

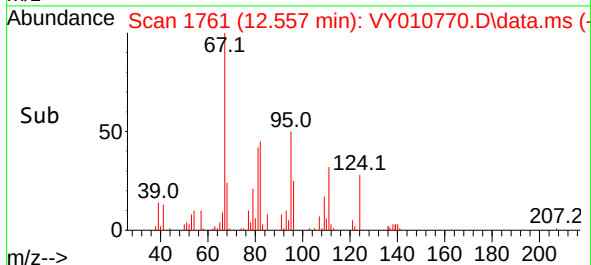
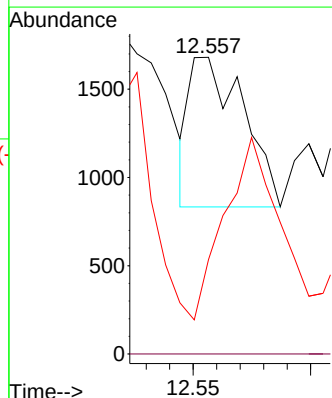
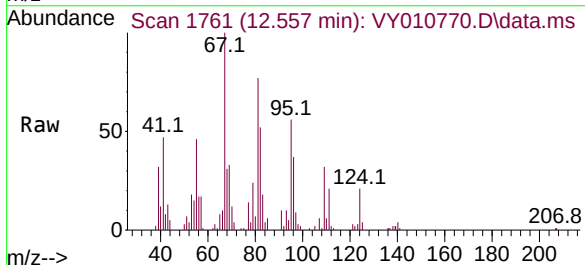
Tgt Ion: 83 Resp: 1352

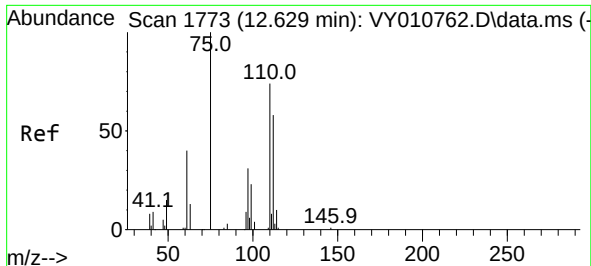
Ion Ratio Lower Upper

83 100

131 0.0 5.6 16.8#

85 121.4 32.3 96.8#

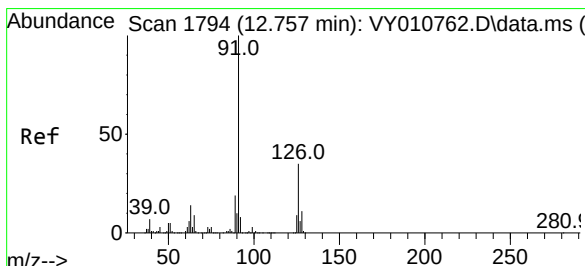
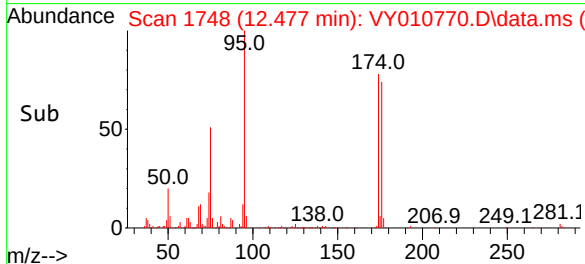
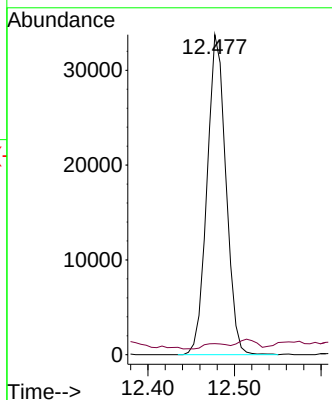
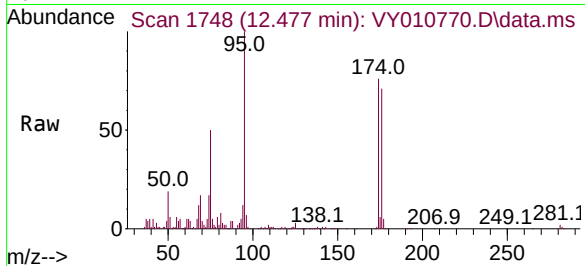




#76
1,2,3-Trichloropropane
Concen: 55.716 ug/l
RT: 12.477 min Scan# 1773
Delta R.T. -0.152 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

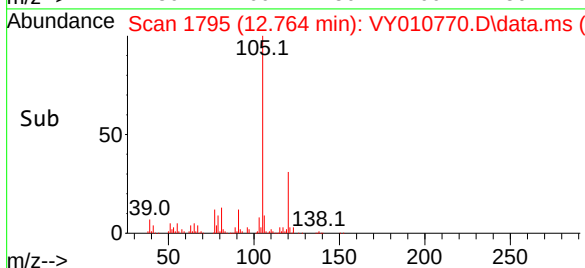
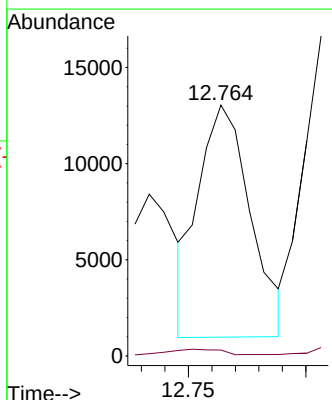
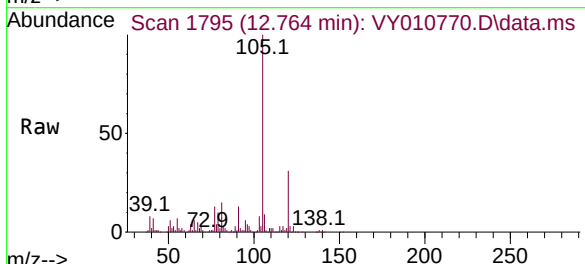
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-203

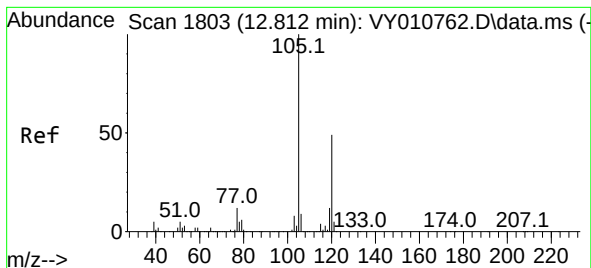
Tgt Ion: 75 Resp: 51120
Ion Ratio Lower Upper
75 100
77 2.1 0.0 0.0#



#79
2-Chlorotoluene
Concen: 4.105 ug/l
RT: 12.764 min Scan# 1795
Delta R.T. 0.007 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

Tgt Ion: 91 Resp: 18628
Ion Ratio Lower Upper
91 100
126 2.4 16.9 50.6#





#80

1,3,5-Trimethylbenzene

Concen: 40.088 ug/l

RT: 12.813 min Scan# 1

Delta R.T. 0.001 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

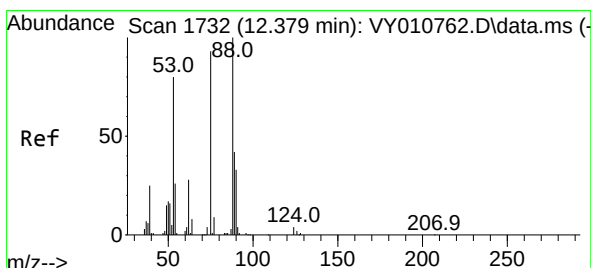
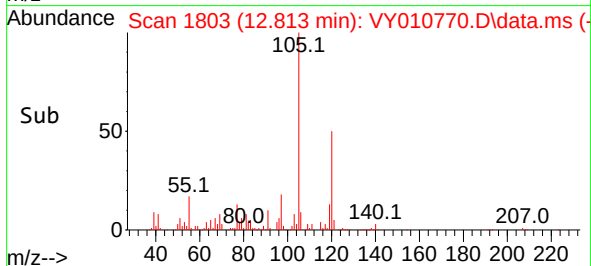
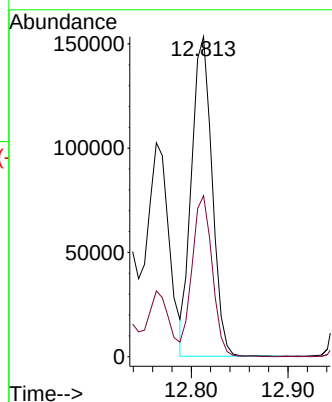
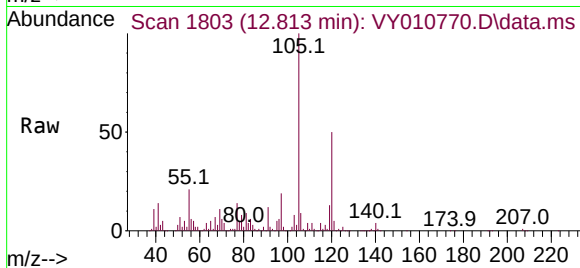
VNJ-203

Tgt Ion:105 Resp: 225837

Ion Ratio Lower Upper

105 100

120 49.6 24.4 73.4



#81

trans-1,4-Dichloro-2-butene

Concen: 116.386 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.098 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

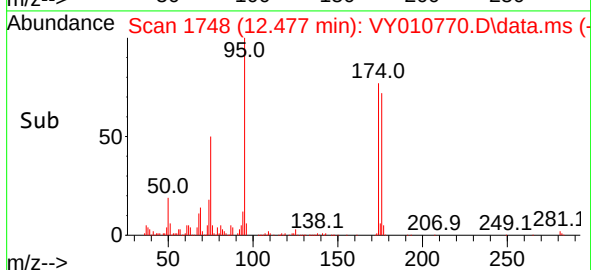
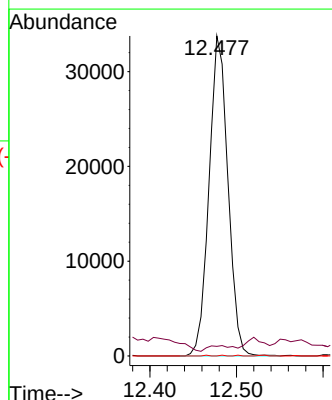
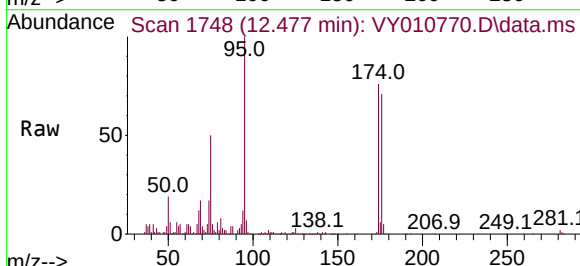
Tgt Ion: 75 Resp: 51120

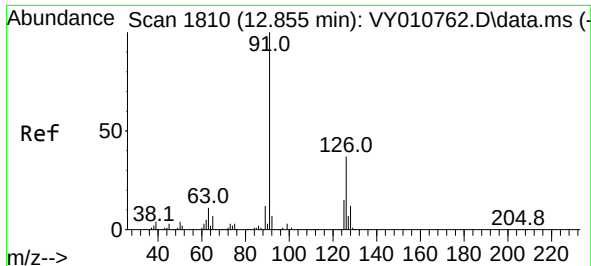
Ion Ratio Lower Upper

75 100

53 2.4 85.3 127.9#

89 0.1 37.0 55.4#

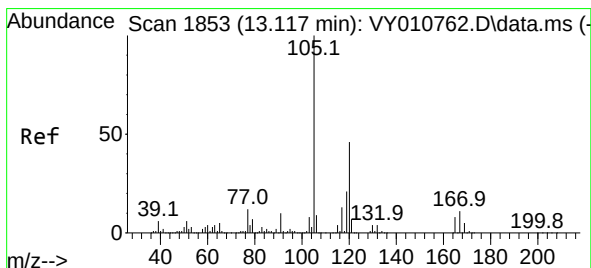
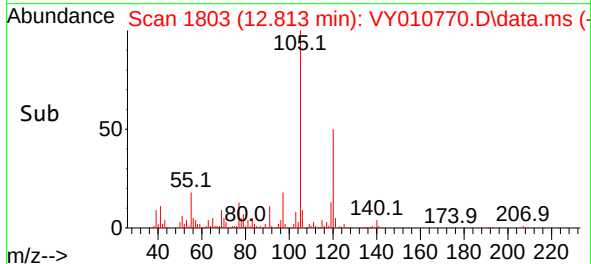
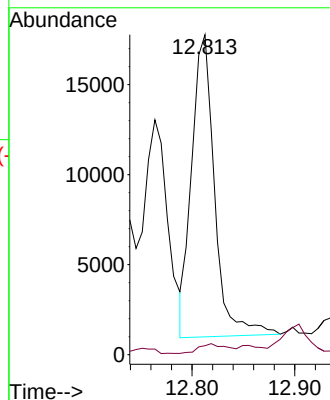
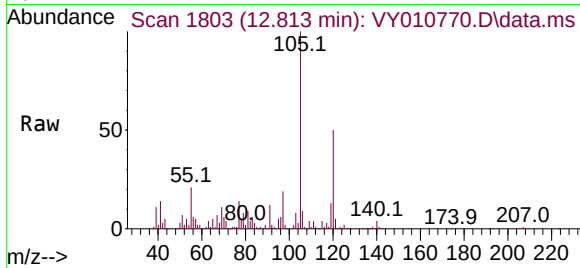




#82
4-Chlorotoluene
Concen: 5.480 ug/l
RT: 12.813 min Scan# 1810
Delta R.T. -0.042 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

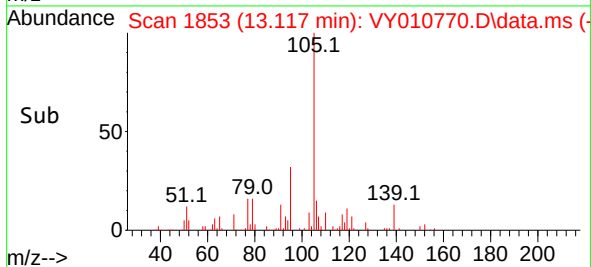
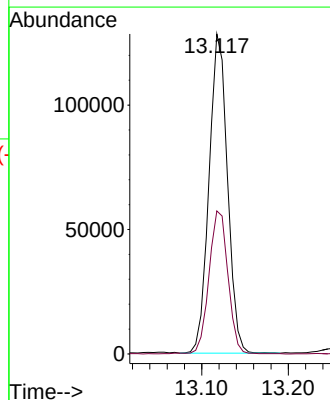
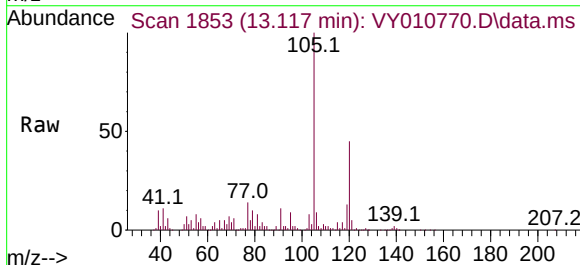
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-203

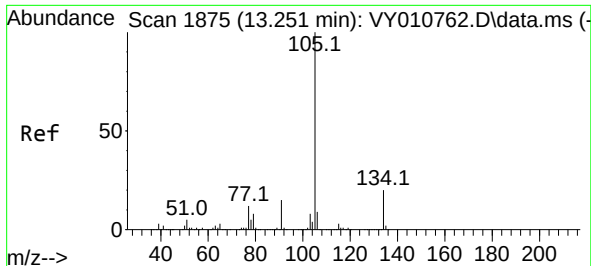
Tgt Ion: 91 Resp: 26007
Ion Ratio Lower Upper
91 100
126 4.4 17.0 51.0#



#84
1,2,4-Trimethylbenzene
Concen: 34.287 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY010770.D
Acq: 03 Oct 2022 16:50

Tgt Ion: 105 Resp: 189904
Ion Ratio Lower Upper
105 100
120 46.3 22.3 66.9

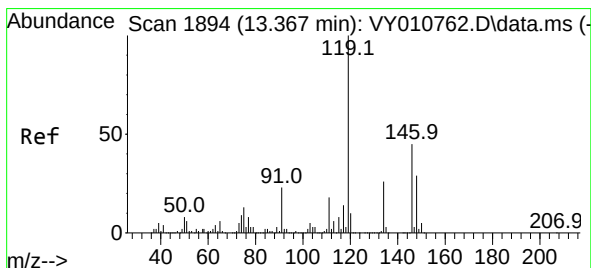
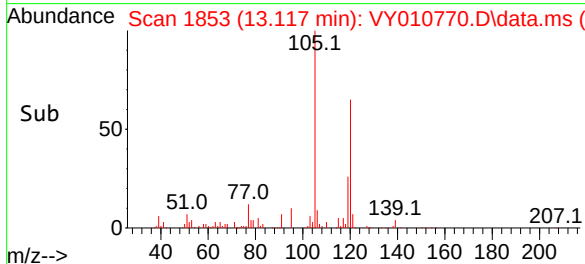
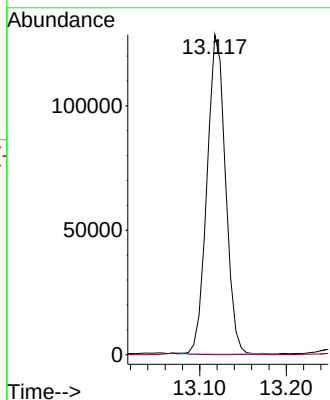
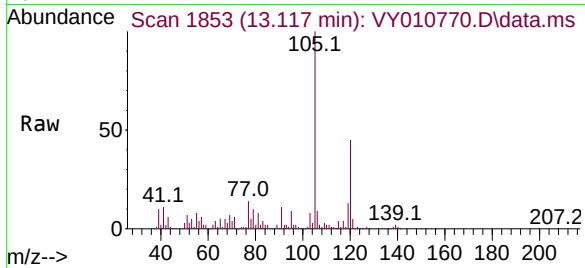




#85
 sec-Butylbenzene
 Concen: 26.268 ug/l
 RT: 13.117 min Scan# 1853
 Delta R.T. -0.134 min
 Lab File: VY010770.D
 Acq: 03 Oct 2022 16:50

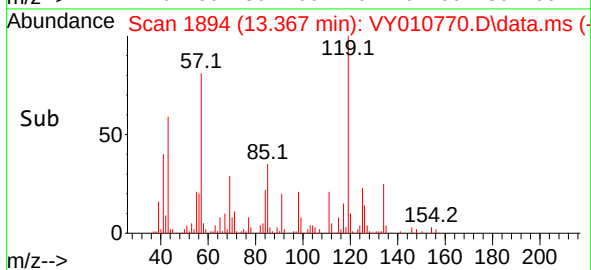
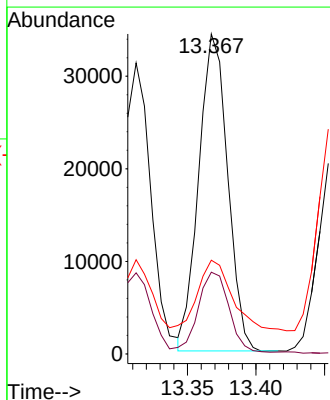
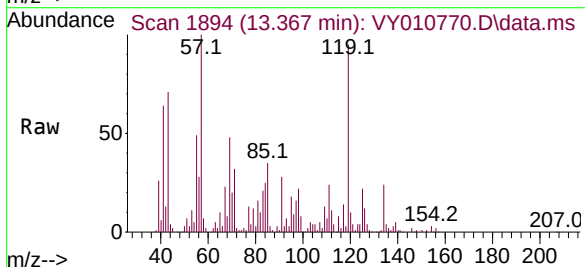
Instrument :
 MSVOA_Y
 ClientSampleId :
 VNJ-203

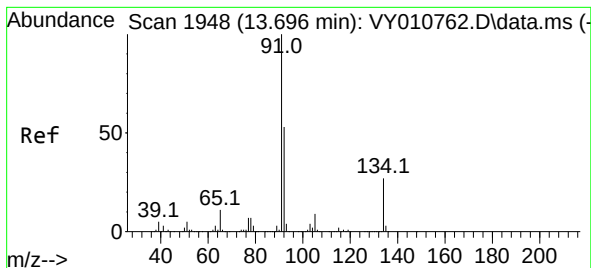
Tgt Ion:105 Resp: 189904
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.4#



#86
 p-Isopropyltoluene
 Concen: 8.294 ug/l
 RT: 13.367 min Scan# 1894
 Delta R.T. 0.000 min
 Lab File: VY010770.D
 Acq: 03 Oct 2022 16:50

Tgt Ion:119 Resp: 50309
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.2 39.5
 91 0.0 12.4 37.2#





#89

n-Butylbenzene

Concen: 460.663 ug/l

RT: 13.630 min Scan# 1948

Delta R.T. -0.066 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

VNJ-203

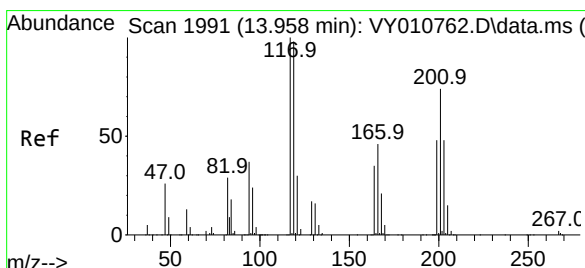
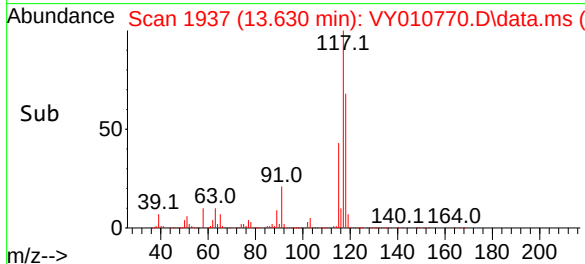
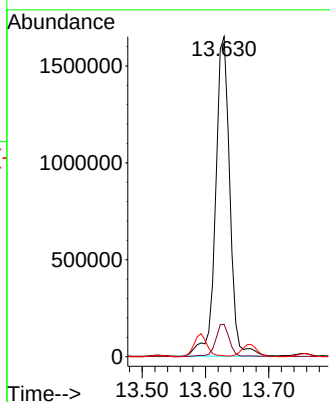
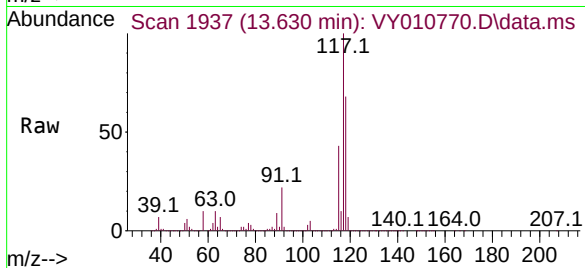
Tgt Ion: 91 Resp: 2571210

Ion Ratio Lower Upper

91 100

92 10.1 26.3 78.9#

134 0.0 13.0 38.9#



#90

Hexachloroethane

Concen: 104.129 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.013 min

Lab File: VY010770.D

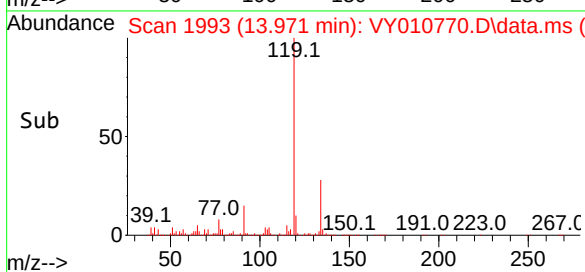
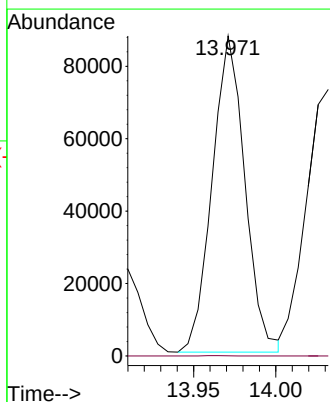
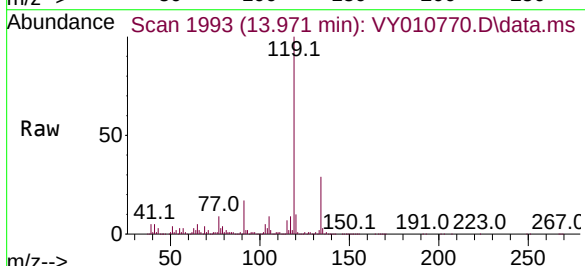
Acq: 03 Oct 2022 16:50

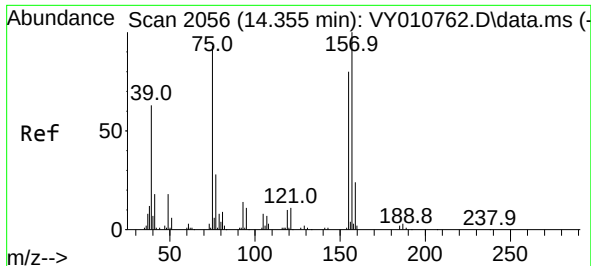
Tgt Ion: 117 Resp: 120808

Ion Ratio Lower Upper

117 100

201 0.1 43.0 128.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 6.941 ug/l

RT: 14.373 min Scan# 2059

Delta R.T. 0.018 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

VNJ-203

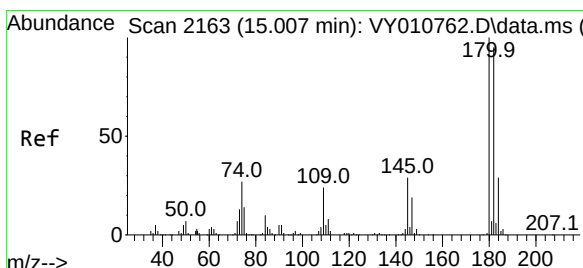
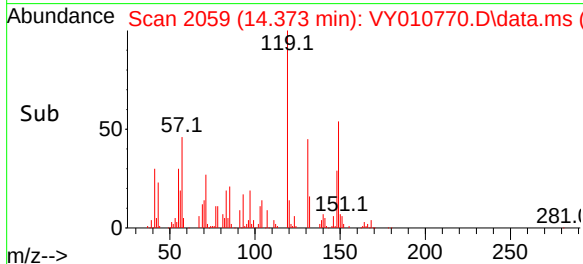
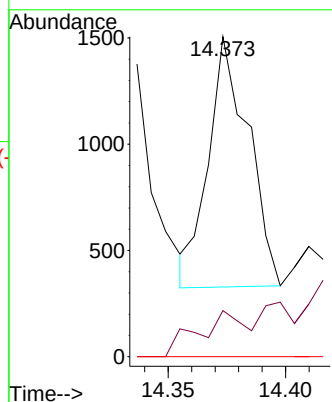
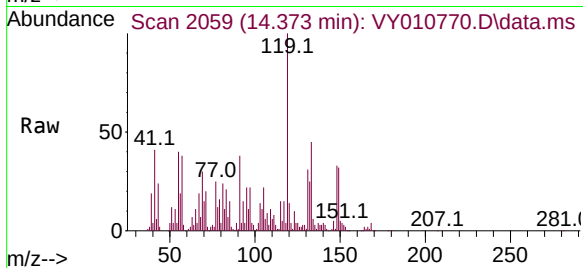
Tgt Ion: 75 Resp: 1389

Ion Ratio Lower Upper

75 100

155 0.0 38.0 113.9#

157 0.0 47.8 143.3#



#93

1,2,4-Trichlorobenzene

Concen: 1.401 ug/l

RT: 15.007 min Scan# 2163

Delta R.T. 0.000 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

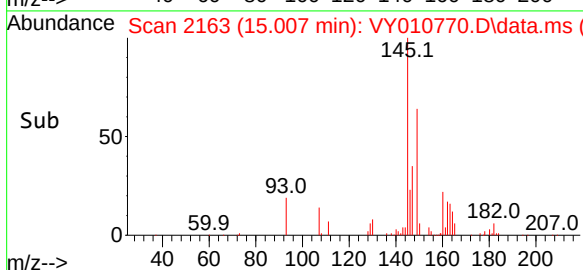
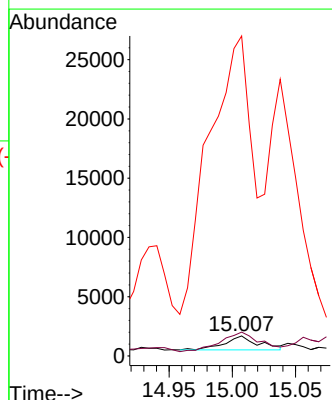
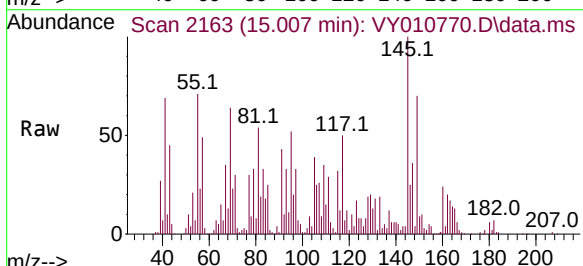
Tgt Ion:180 Resp: 2222

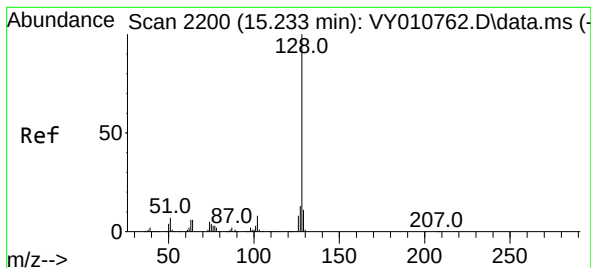
Ion Ratio Lower Upper

180 100

182 161.3 47.3 141.9#

145 2859.5 14.6 43.8#





#95

Naphthalene

Concen: 1.434 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

VNJ-203

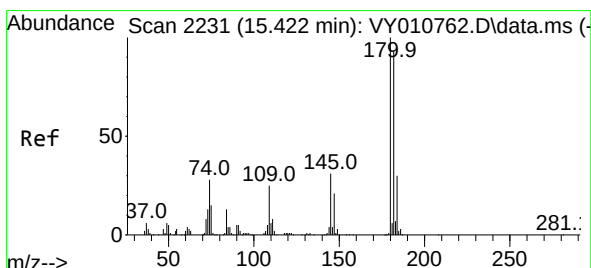
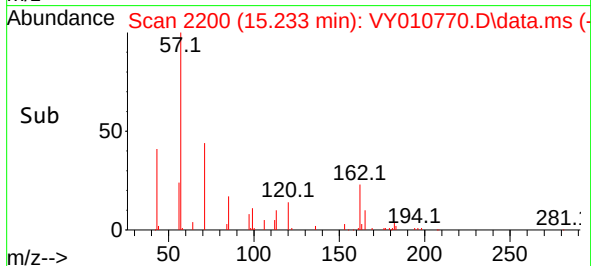
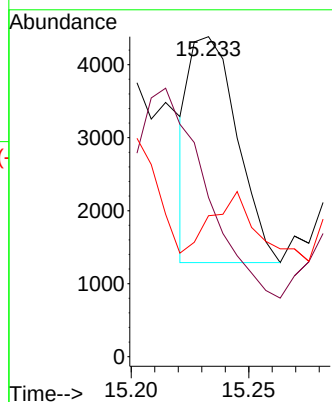
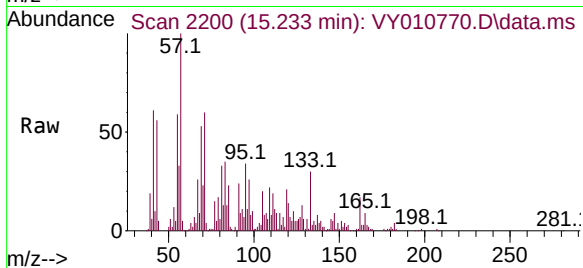
Tgt Ion:128 Resp: 4335

Ion Ratio Lower Upper

128 100

127 0.0 11.0 16.4#

129 27.9 8.4 12.6#



#96

1,2,3-Trichlorobenzene

Concen: 2.206 ug/l

RT: 15.391 min Scan# 2226

Delta R.T. -0.031 min

Lab File: VY010770.D

Acq: 03 Oct 2022 16:50

Tgt Ion:180 Resp: 2982

Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.9#

145 658.6 15.3 45.9#

