

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090822\
 Data File : VY010391.D
 Acq On : 08 Sep 2022 13:28
 Operator : KP/MD
 Sample : N4490-04
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-14-A-SP-GR

Quant Time: Sep 08 16:24:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090222S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 02 16:41:46 2022
 Response via : Initial Calibration

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

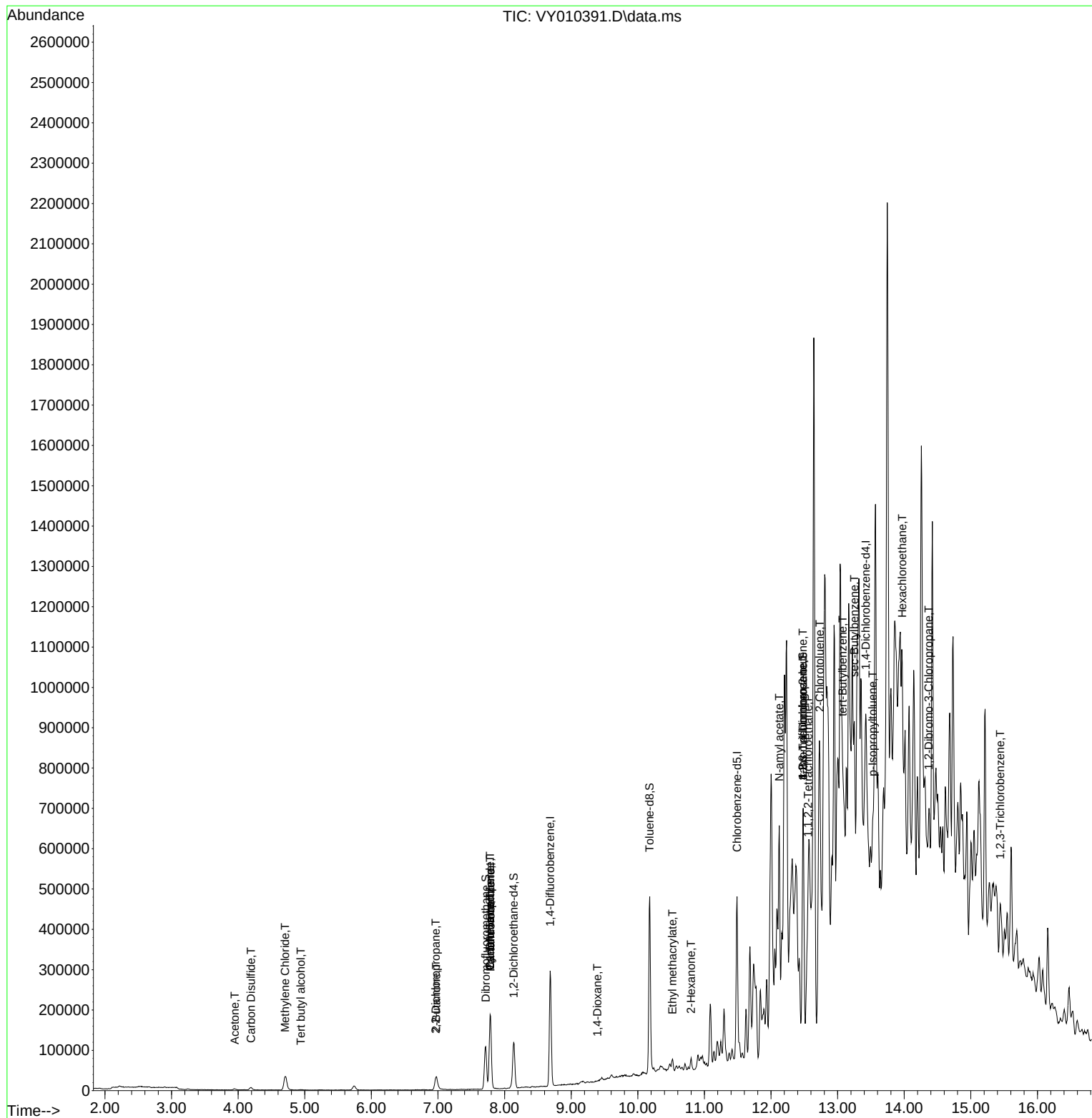
Internal Standards						
1) Pentafluorobenzene	7.789	168	150240	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	250261	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	220292	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	109221	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	88224	57.268	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 114.540%	
35) Dibromofluoromethane	7.716	113	76106	45.681	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 91.360%	
50) Toluene-d8	10.179	98	284172	50.946	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 101.900%	
62) 4-Bromofluorobenzene	12.477	95	115236	51.815	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 103.640%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.650	94	891	Below Cal	#	50
11) Tert butyl alcohol	4.942	59	785	4.259	ug/l #	90
16) Acetone	3.948	43	4669	12.124	ug/l	93
17) Carbon Disulfide	4.192	76	10519	2.309	ug/l	95
20) Methylene Chloride	4.704	84	27067	14.564	ug/l #	85
25) 2-Butanone	6.972	43	2504	3.962	ug/l	93
26) 2,2-Dichloropropane	6.966	77	2997	1.068	ug/l #	55
31) Cyclohexane	7.783	56	3329	1.108	ug/l #	3
36) 1,1-Dichloropropene	7.783	75	10924	4.469	ug/l #	53
38) Carbon Tetrachloride	7.783	117	14347	5.695	ug/l #	16
49) 1,4-Dioxane	9.392	88	20	1.484	ug/l #	1
56) Ethyl methacrylate	10.520	69	3297	1.605	ug/l #	33
58) 2-Chloroethyl Vinyl ether	9.770	63	94	Below Cal	#	1
59) 2-Hexanone	10.801	43	10483	10.968	ug/l #	37
74) N-amyl acetate	12.124	43	114048	47.440	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.556	83	34791	20.775	ug/l #	26
76) 1,2,3-Trichloropropane	12.477	75	48390	37.229	ug/l #	100
79) 2-Chlorotoluene	12.733	91	8246	1.395	ug/l #	41
81) trans-1,4-Dichloro-2-b...	12.477	75	48390	77.665	ug/l #	18
83) tert-Butylbenzene	13.075	119	10396	1.639	ug/l #	55
85) sec-Butylbenzene	13.251	105	10935	1.166	ug/l #	71
86) p-Isopropyltoluene	13.526	119	45735	5.903	ug/l	89
90) Hexachloroethane	13.971	117	4573	3.075	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.367	75	524	1.776	ug/l #	25
96) 1,2,3-Trichlorobenzene	15.440	180	3081	1.713	ug/l #	13

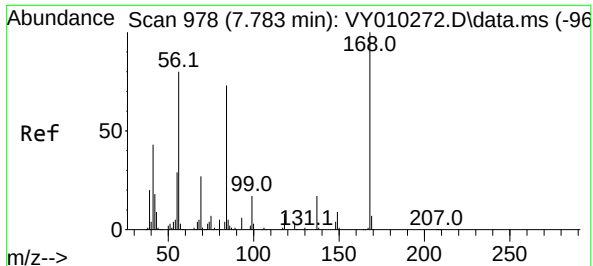
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

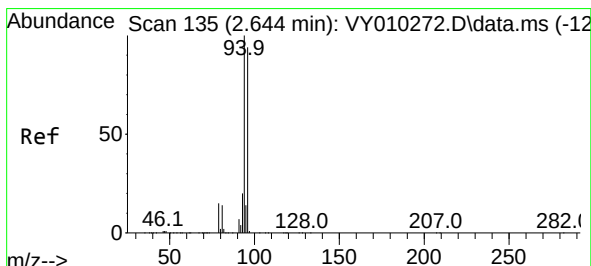
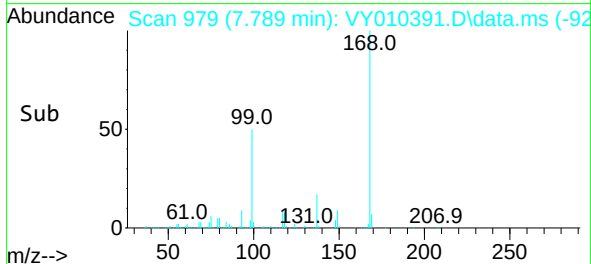
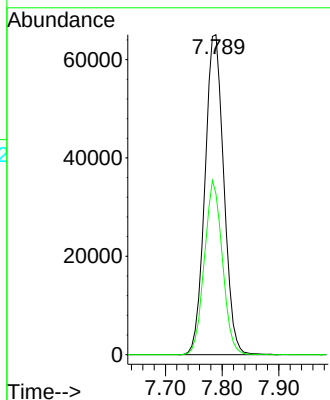
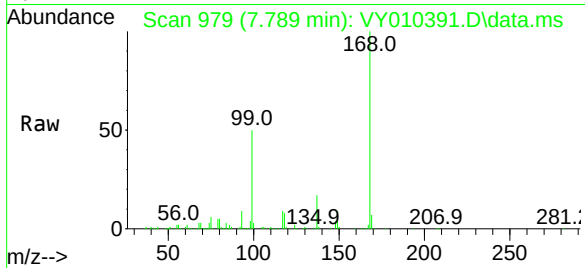




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY010391.D
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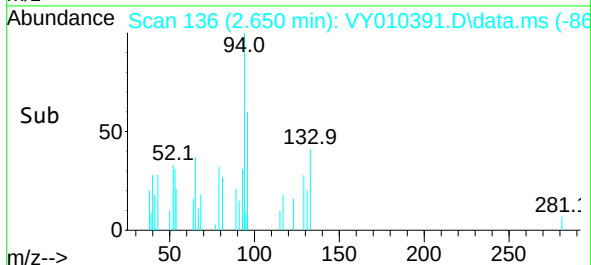
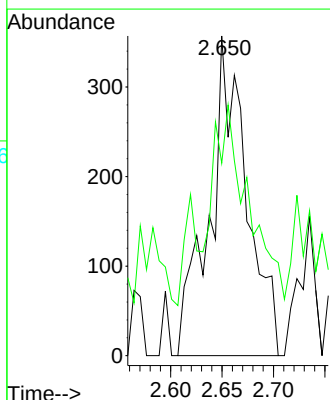
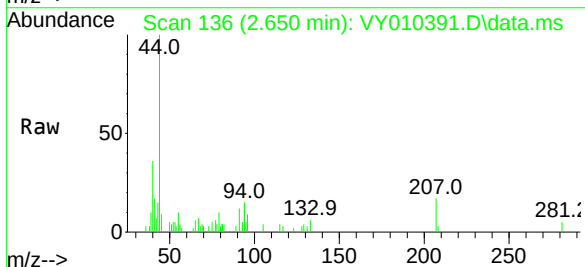
Instrument :
MSVOA_Y
ClientSampleId :
WC-14-A-SP-GR

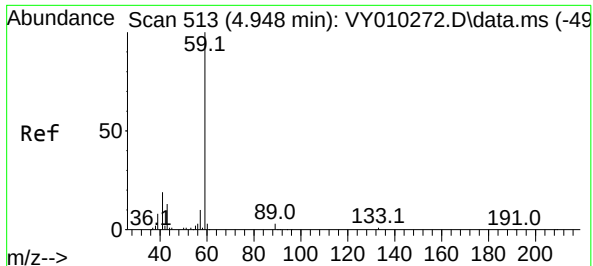
Tgt Ion:168 Resp: 150240
Ion Ratio Lower Upper
168 100
99 50.3 46.9 70.3



#5
Bromomethane
Concen: Below Cal
RT: 2.650 min Scan# 136
Delta R.T. 0.006 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion: 94 Resp: 891
Ion Ratio Lower Upper
94 100
96 44.5 73.5 110.3#





#11

Tert butyl alcohol

Concen: 4.259 ug/l

RT: 4.942 min Scan# 513

Delta R.T. -0.006 min

Lab File: VY010391.D

Acq: 08 Sep 2022 13:28

Instrument :

MSVOA_Y

ClientSampleId :

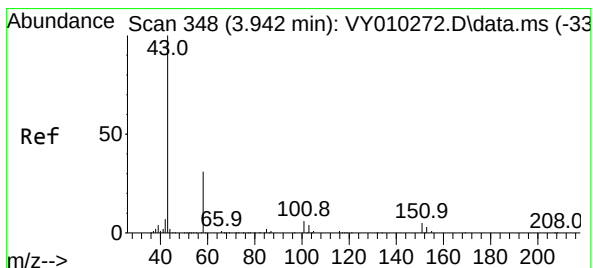
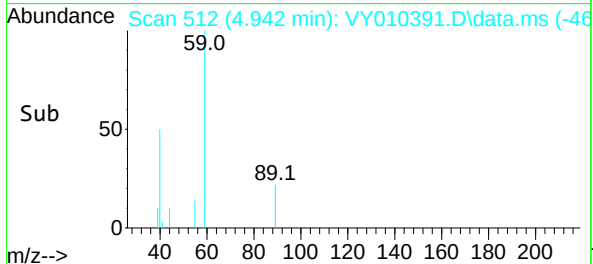
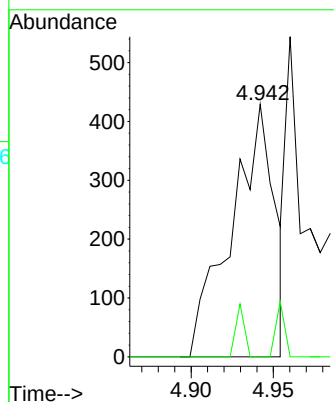
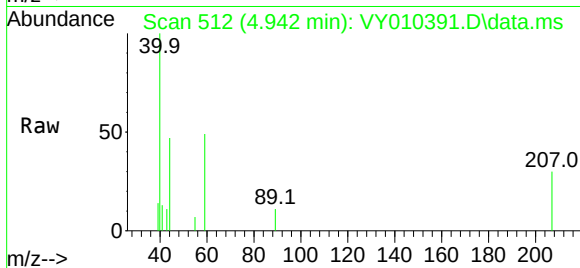
WC-14-A-SP-GR

Tgt Ion: 59 Resp: 785

Ion Ratio Lower Upper

59 100

57 4.3 6.4 9.6#



#16

Acetone

Concen: 12.124 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.006 min

Lab File: VY010391.D

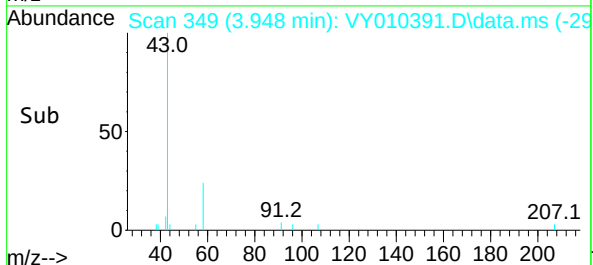
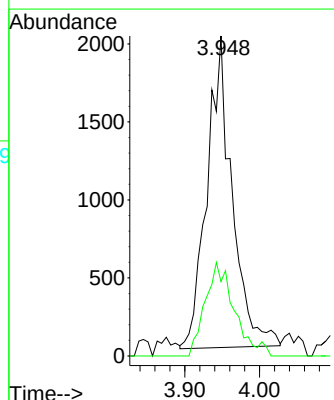
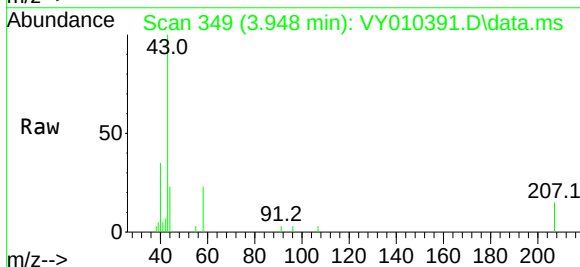
Acq: 08 Sep 2022 13:28

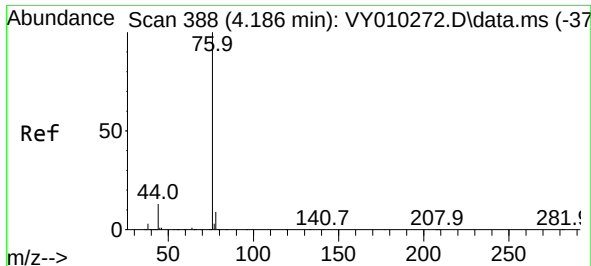
Tgt Ion: 43 Resp: 4669

Ion Ratio Lower Upper

43 100

58 24.0 22.0 33.0

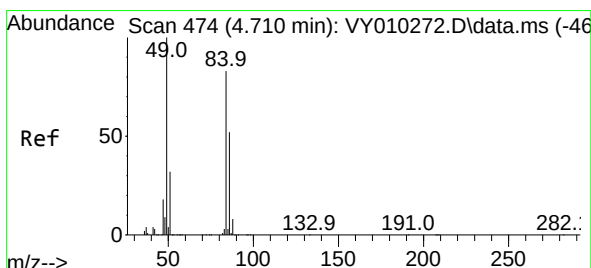
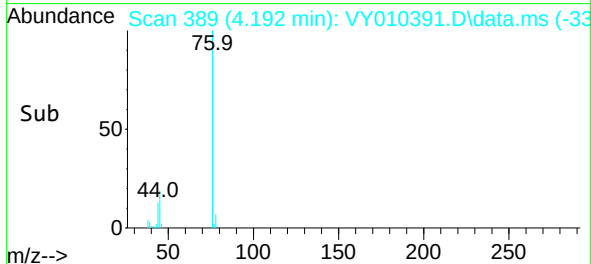
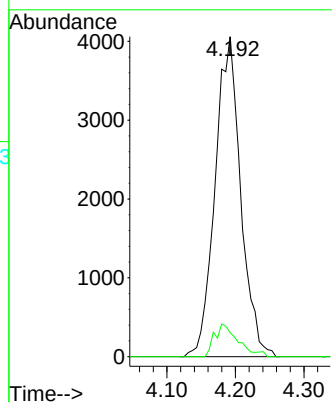
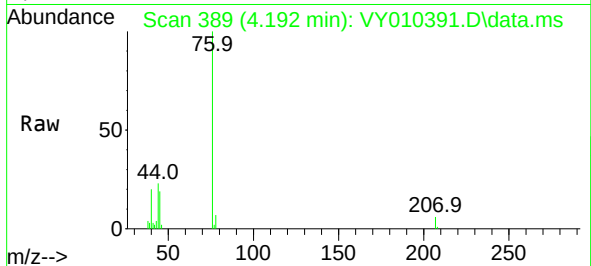




#17
Carbon Disulfide
Concen: 2.309 ug/l
RT: 4.192 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

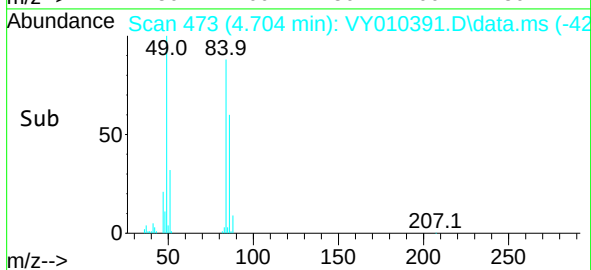
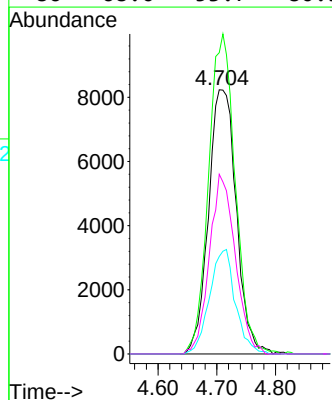
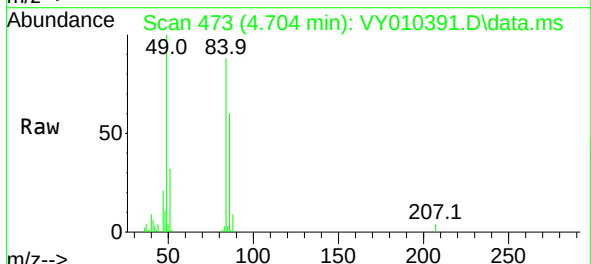
Instrument :
MSVOA_Y
ClientSampleId :
WC-14-A-SP-GR

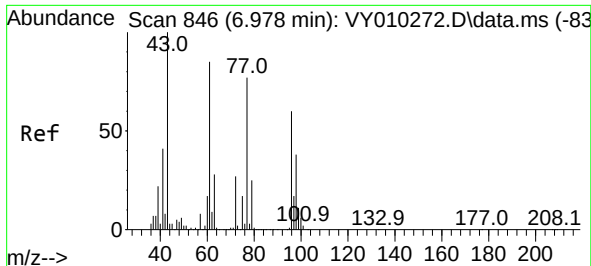
Tgt Ion: 76 Resp: 10519
Ion Ratio Lower Upper
76 100
78 7.5 7.4 11.0



#20
Methylene Chloride
Concen: 14.564 ug/l
RT: 4.704 min Scan# 473
Delta R.T. -0.006 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion: 84 Resp: 27067
Ion Ratio Lower Upper
84 100
49 114.0 114.4 171.6#
51 36.9 35.3 52.9
86 68.0 53.7 80.5

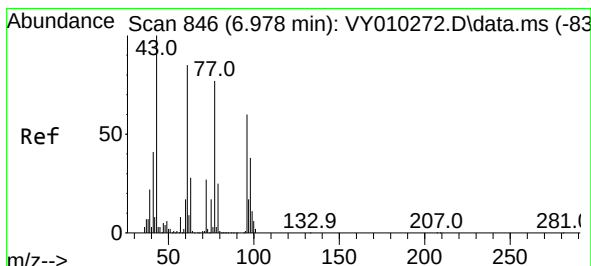
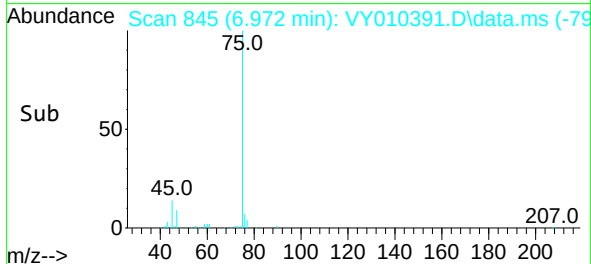
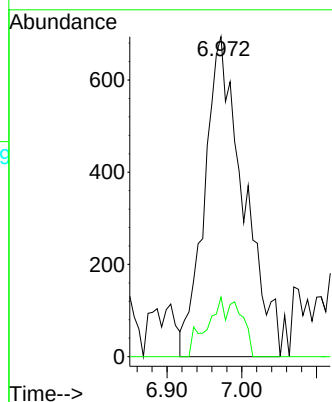
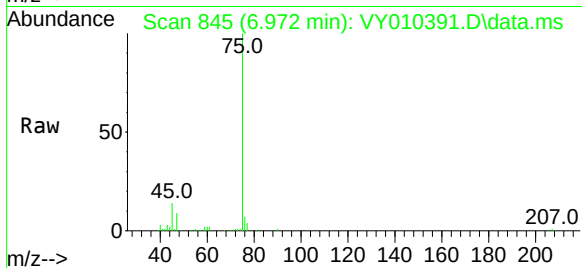




#25
2-Butanone
Concen: 3.962 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.006 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

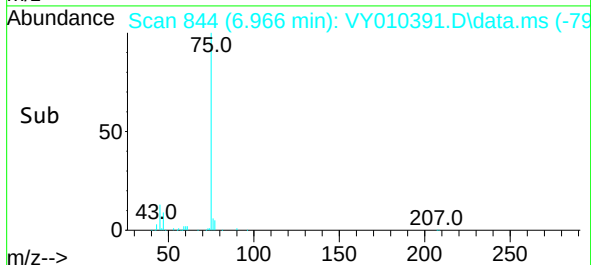
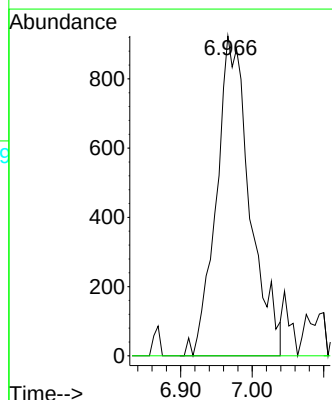
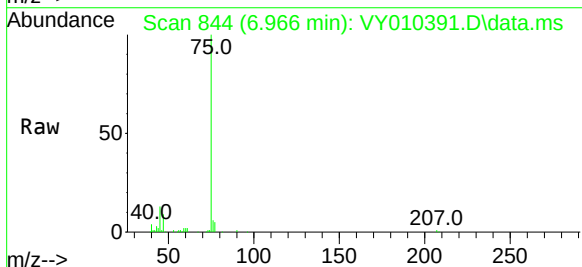
Instrument :
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ClientSampleId :
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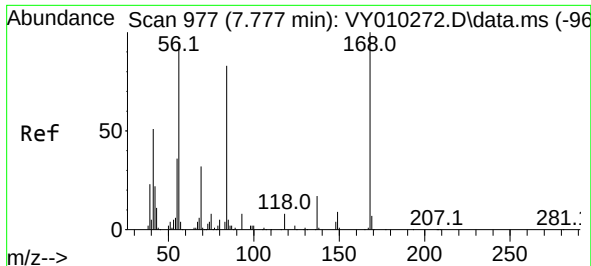
Tgt Ion: 43 Resp: 2504
Ion Ratio Lower Upper
43 100
72 18.6 17.7 26.5



#26
2,2-Dichloropropane
Concen: 1.068 ug/l
RT: 6.966 min Scan# 844
Delta R.T. -0.012 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion: 77 Resp: 2997
Ion Ratio Lower Upper
77 100
97 0.0 10.4 31.4#

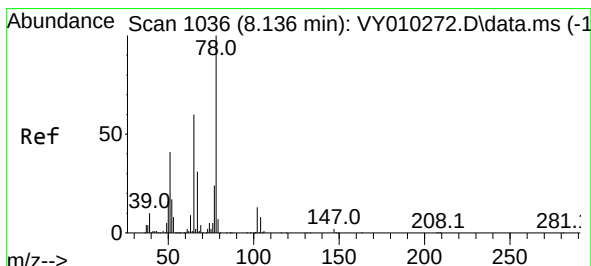
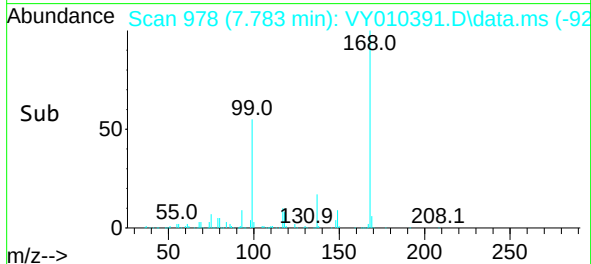
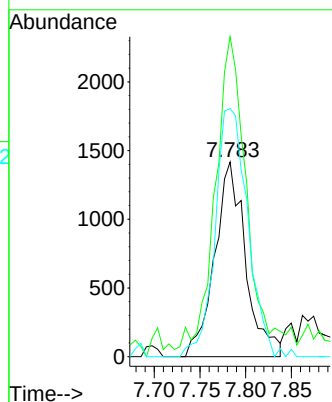
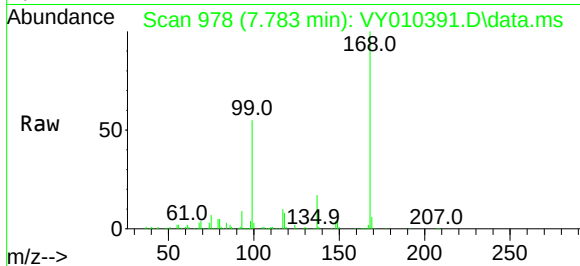




#31
Cyclohexane
Concen: 1.108 ug/l
RT: 7.783 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

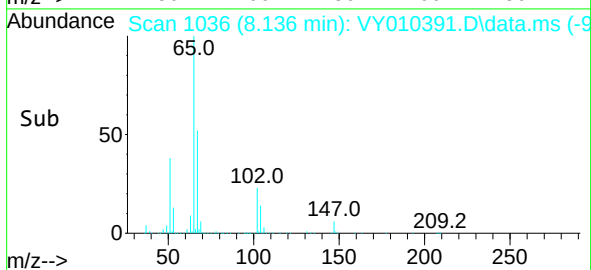
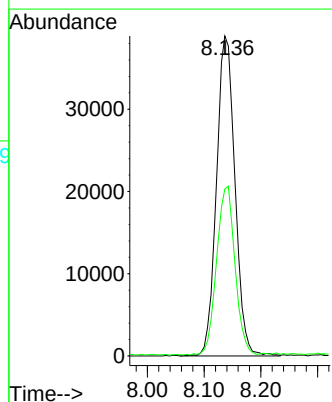
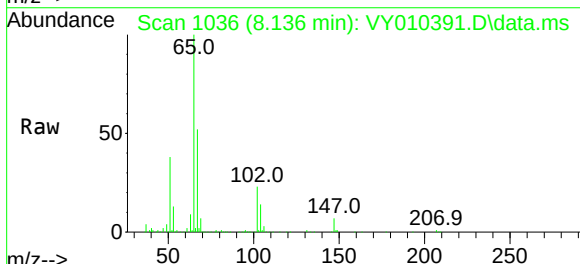
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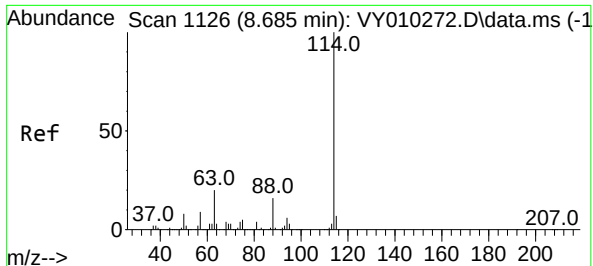
Tgt Ion: 56 Resp: 3329
Ion Ratio Lower Upper
56 100
69 159.3 26.7 40.1#
84 127.5 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 57.268 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion: 65 Resp: 88224
Ion Ratio Lower Upper
65 100
67 52.5 0.0 99.4

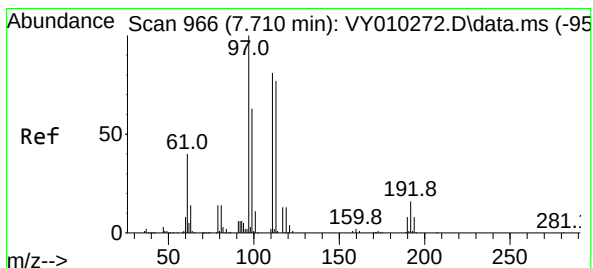
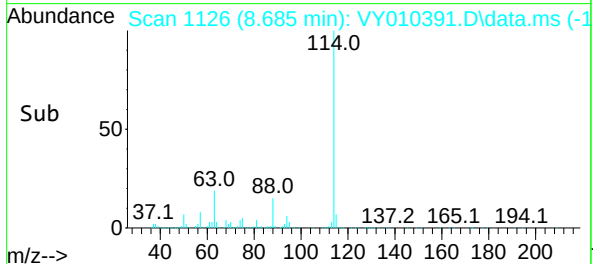
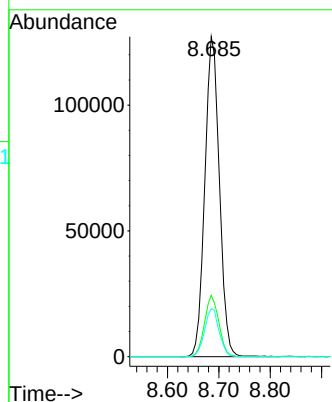
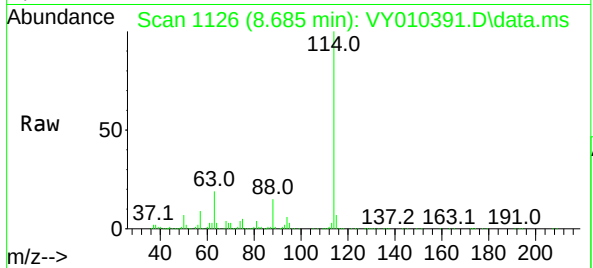




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

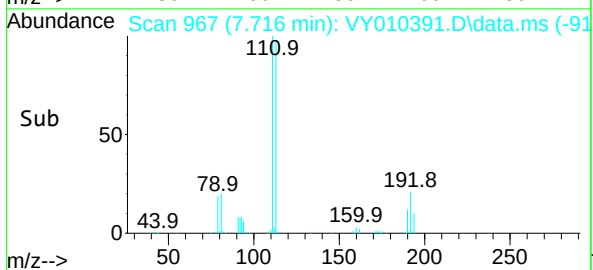
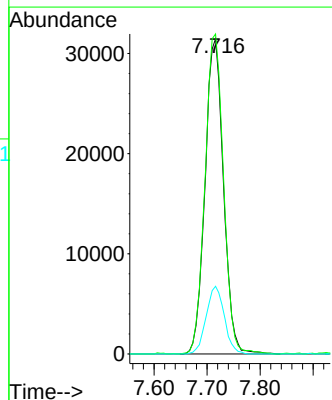
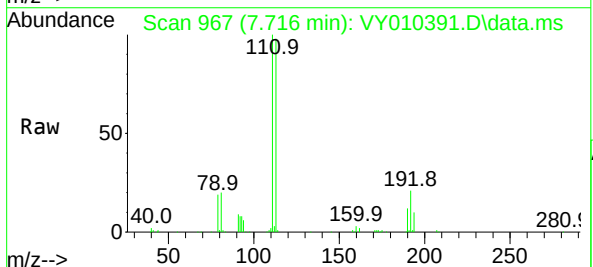
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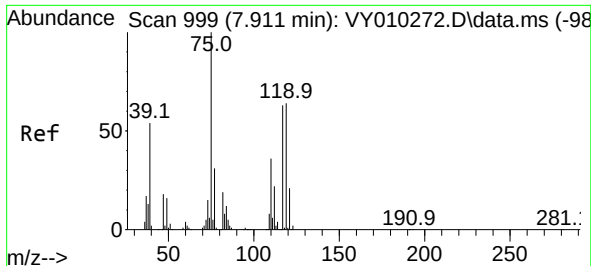
Tgt Ion:114 Resp: 250261
Ion Ratio Lower Upper
114 100
63 19.2 0.0 43.2
88 15.0 0.0 31.8



#35
Dibromofluoromethane
Concen: 45.681 ug/l
RT: 7.716 min Scan# 967
Delta R.T. 0.006 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion:113 Resp: 76106
Ion Ratio Lower Upper
113 100
111 102.2 82.6 124.0
192 21.1 17.6 26.4

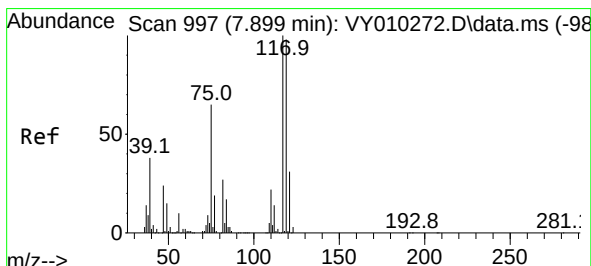
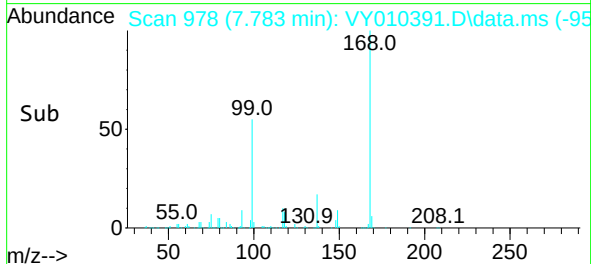
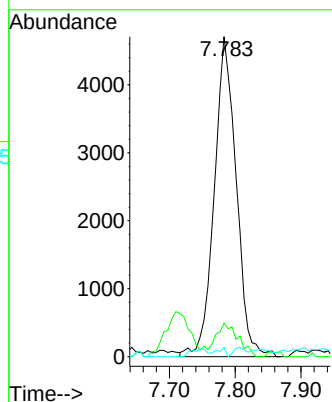
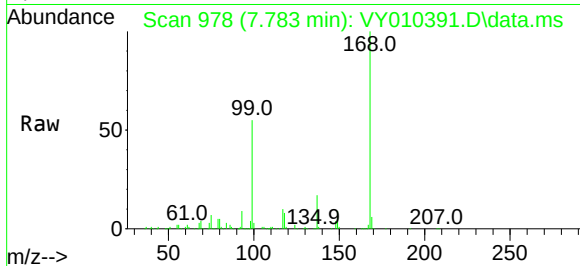




#36
1,1-Dichloropropene
Concen: 4.469 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

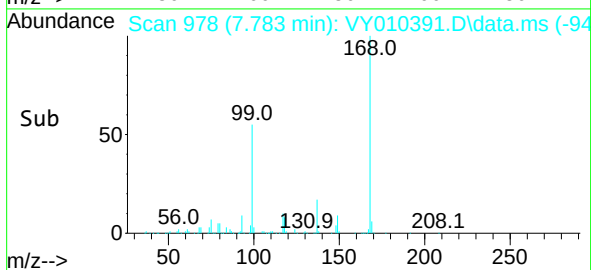
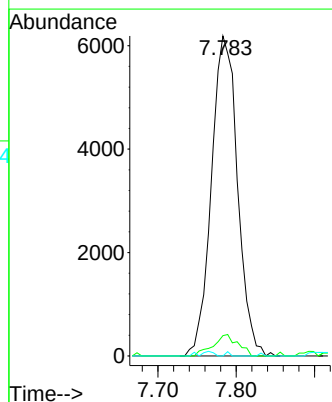
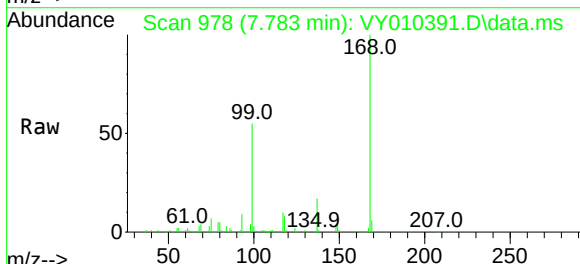
Instrument :
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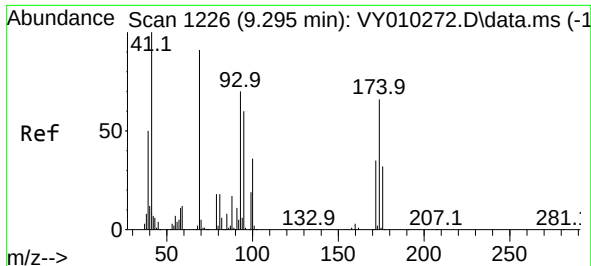
Tgt Ion: 75 Resp: 10924
Ion Ratio Lower Upper
75 100
110 10.5 17.1 51.2#
77 1.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.695 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.116 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion: 117 Resp: 14347
Ion Ratio Lower Upper
117 100
119 6.3 77.9 116.9#
121 0.0 24.8 37.2#





#49

1,4-Dioxane

Concen: 1.484 ug/l

RT: 9.392 min Scan# 11

Delta R.T. 0.097 min

Lab File: VY010391.D

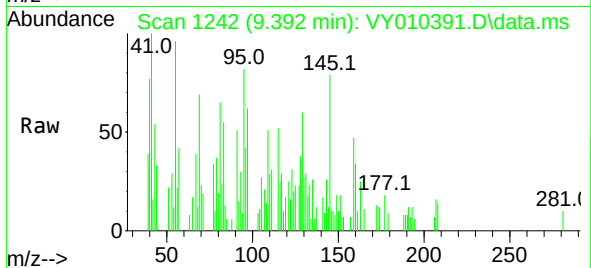
Acq: 08 Sep 2022 13:28

Instrument :

MSVOA_Y

ClientSampleId :

WC-14-A-SP-GR



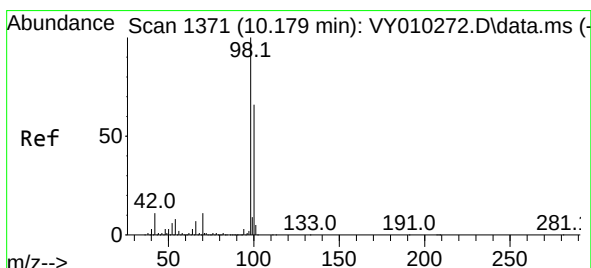
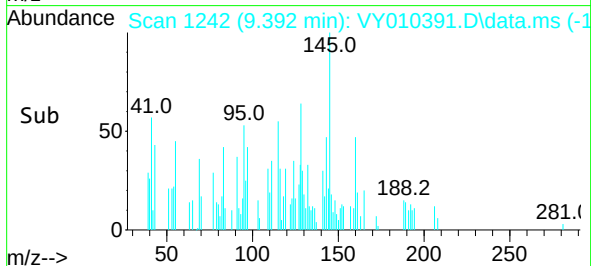
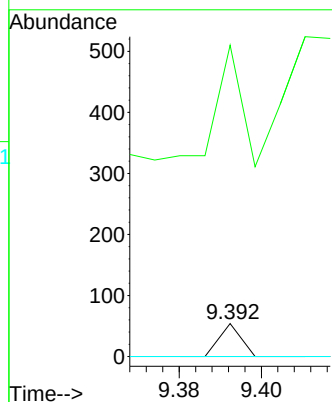
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 430.0 32.8 49.2#

58 0.0 59.8 89.6#



#50

Toluene-d8

Concen: 50.946 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY010391.D

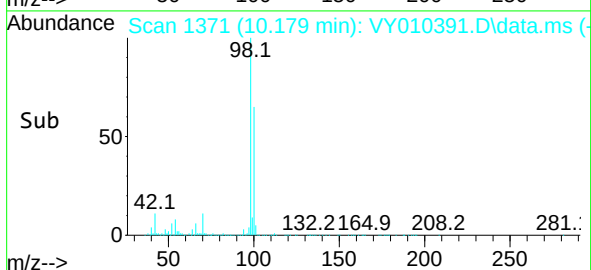
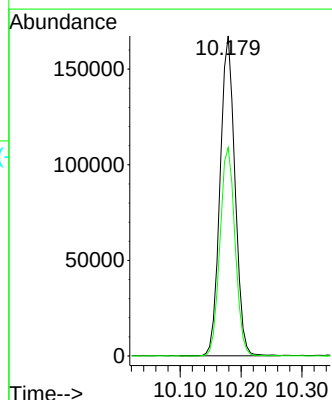
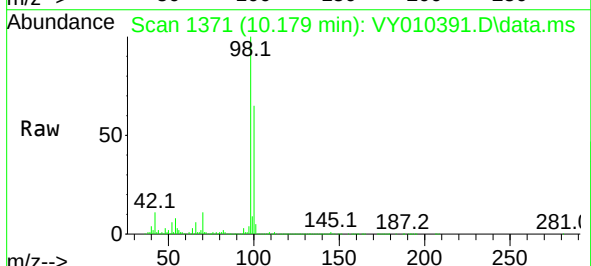
Acq: 08 Sep 2022 13:28

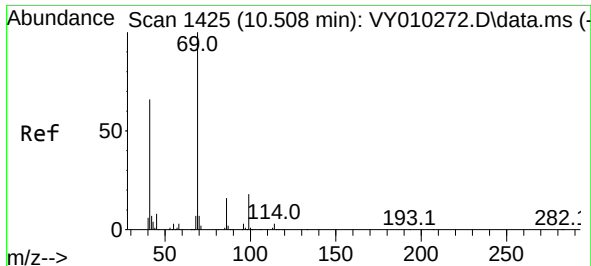
Tgt Ion: 98 Resp: 284172

Ion Ratio Lower Upper

98 100

100 66.1 50.2 75.2

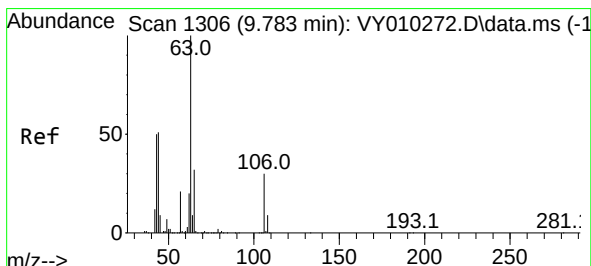
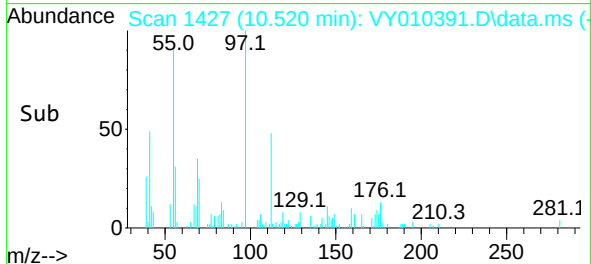
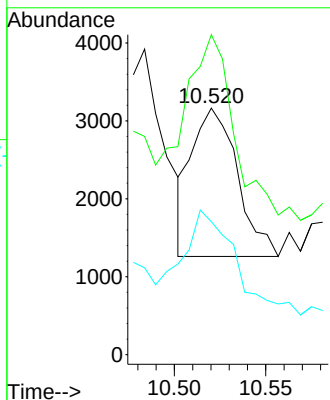
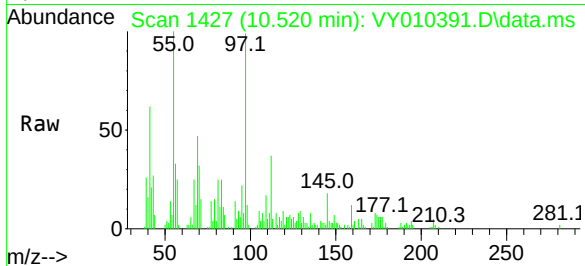




#56
 Ethyl methacrylate
 Concen: 1.605 ug/l
 RT: 10.520 min Scan# 1427
 Delta R.T. 0.012 min
 Lab File: VY010391.D
 Acq: 08 Sep 2022 13:28

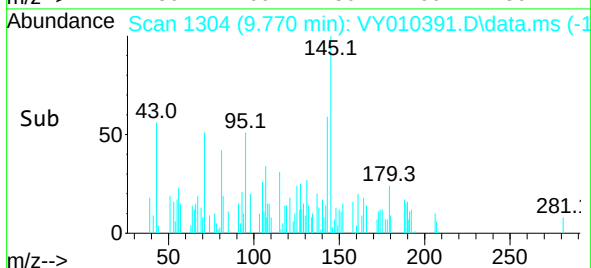
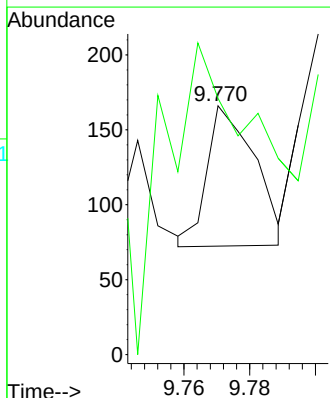
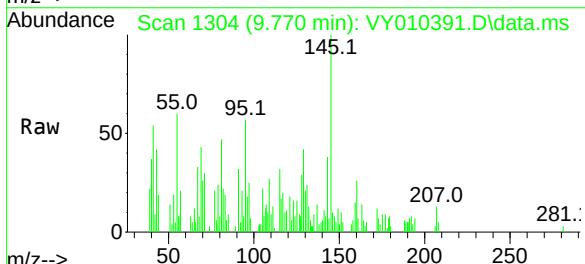
Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-14-A-SP-GR

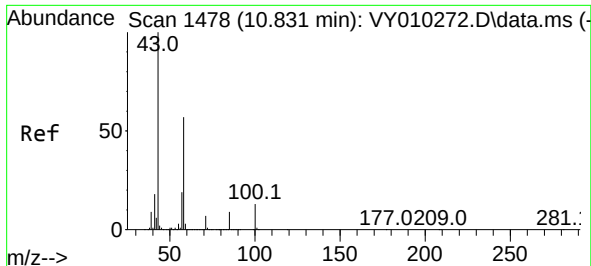
Tgt Ion: 69 Resp: 3297
 Ion Ratio Lower Upper
 69 100
 41 141.2 63.4 95.0#
 39 83.9 35.8 53.8#



#58
 2-Chloroethyl Vinyl ether
 Concen: Below Cal
 RT: 9.770 min Scan# 1304
 Delta R.T. -0.013 min
 Lab File: VY010391.D
 Acq: 08 Sep 2022 13:28

Tgt Ion: 63 Resp: 94
 Ion Ratio Lower Upper
 63 100
 106 477.7 21.5 32.3#

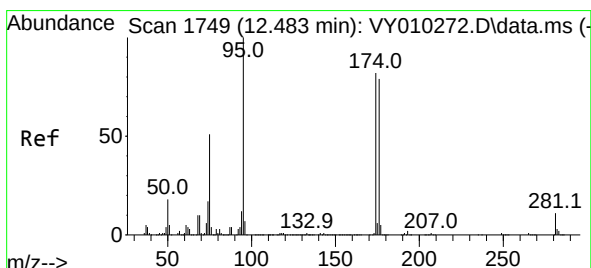
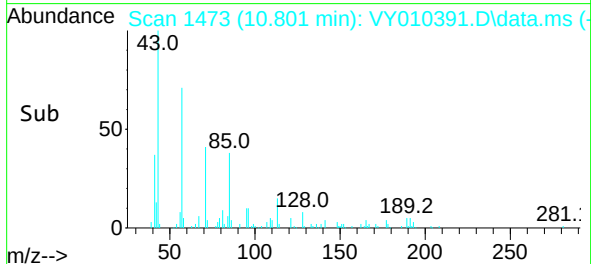
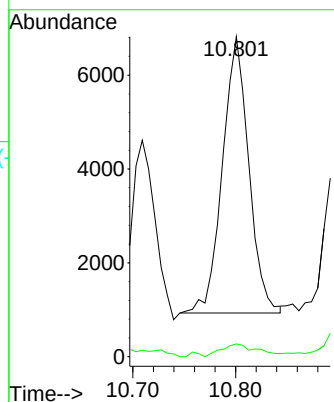
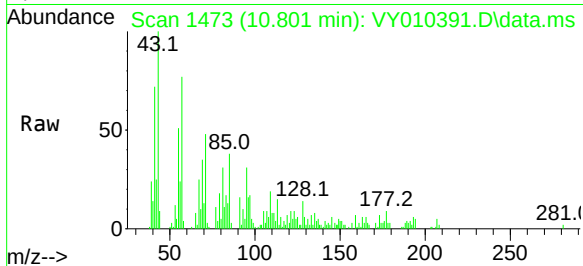




#59
2-Hexanone
Concen: 10.968 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.030 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

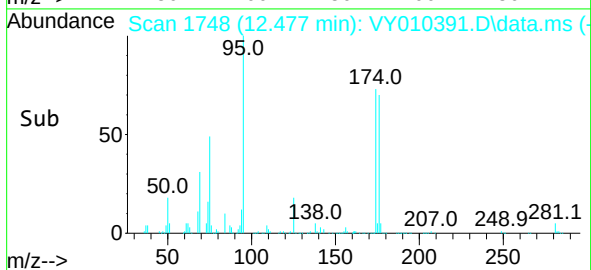
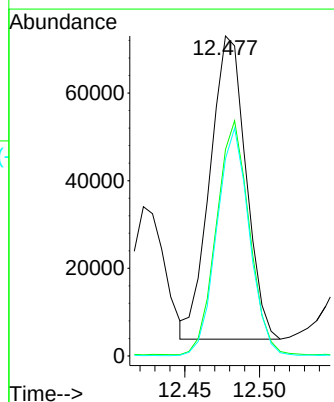
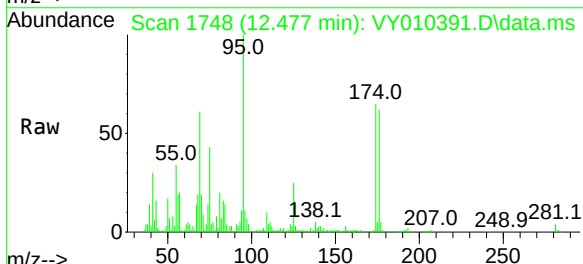
Instrument :
MSVOA_Y
ClientSampleId :
WC-14-A-SP-GR

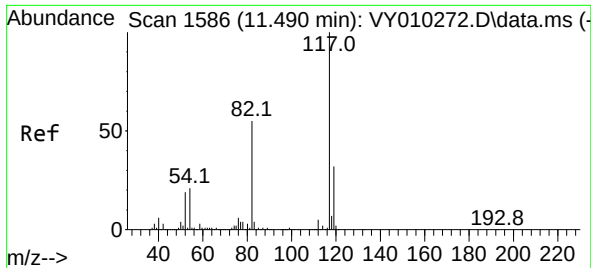
Tgt Ion: 43 Resp: 10483
Ion Ratio Lower Upper
43 100
58 6.3 24.4 73.4#



#62
4-Bromofluorobenzene
Concen: 51.815 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion: 95 Resp: 115236
Ion Ratio Lower Upper
95 100
174 71.0 0.0 177.0
176 68.4 0.0 175.8

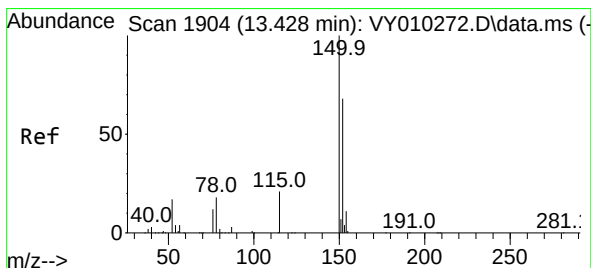
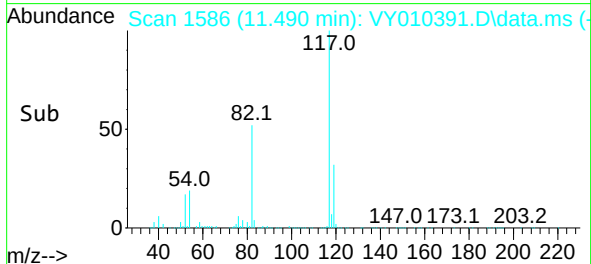
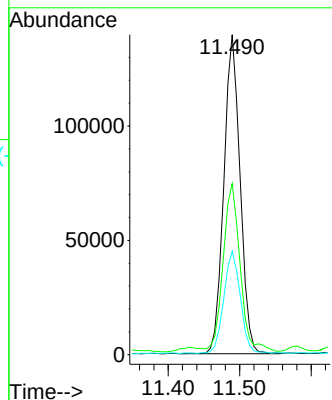
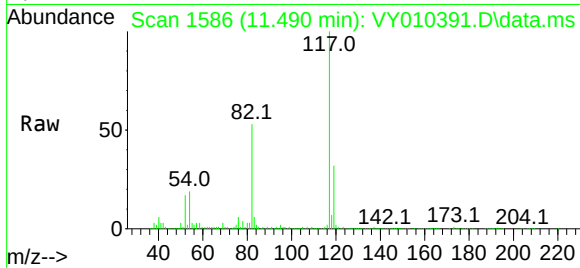




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

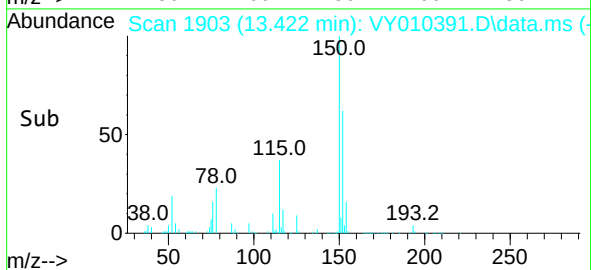
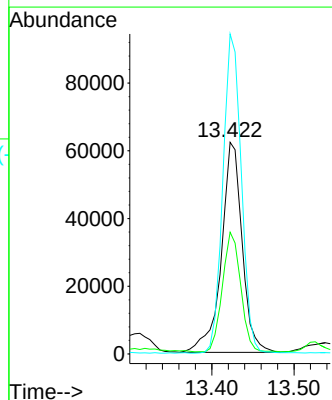
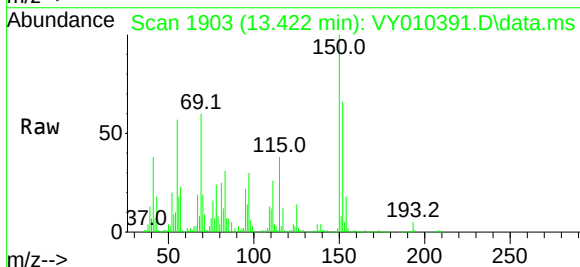
Instrument :
MSVOA_Y
ClientSampleId :
WC-14-A-SP-GR

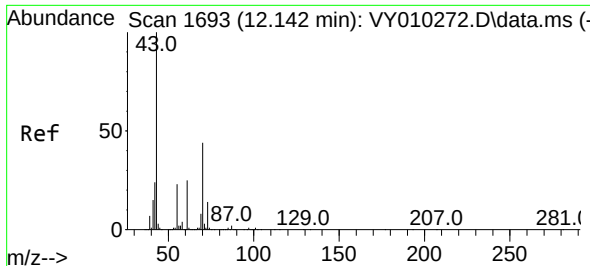
Tgt Ion:117 Resp: 220292
Ion Ratio Lower Upper
117 100
82 52.6 43.0 64.4
119 32.0 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion:152 Resp: 109221
Ion Ratio Lower Upper
152 100
115 50.1 28.2 84.7
150 134.5 0.0 347.6

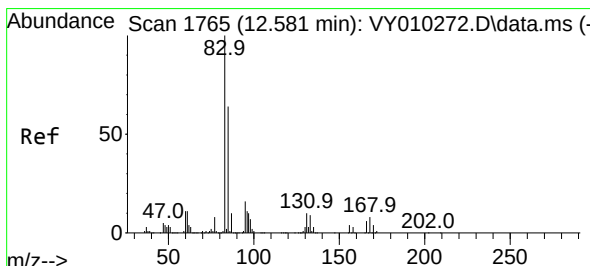
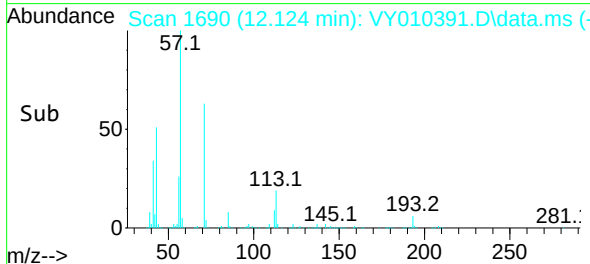
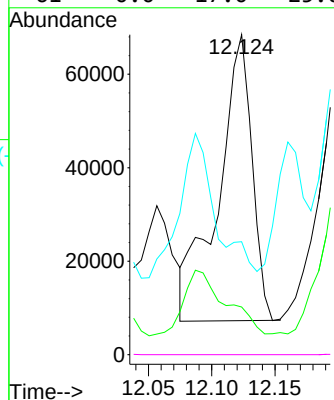
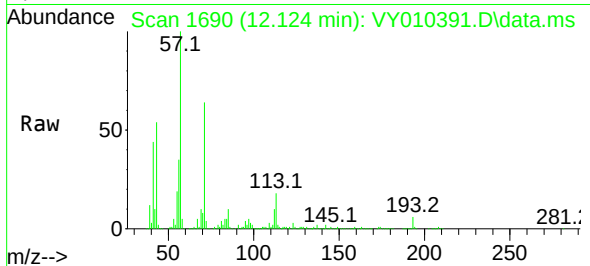




#74
N-amy1 acetate
Concen: 47.440 ug/l
RT: 12.124 min Scan# 1690
Delta R.T. -0.018 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

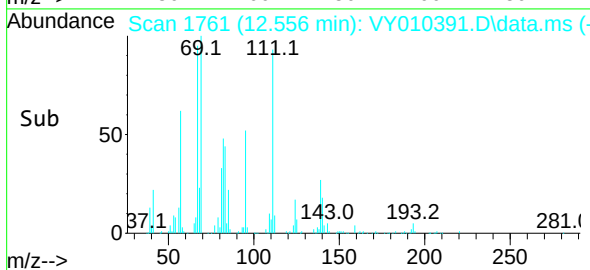
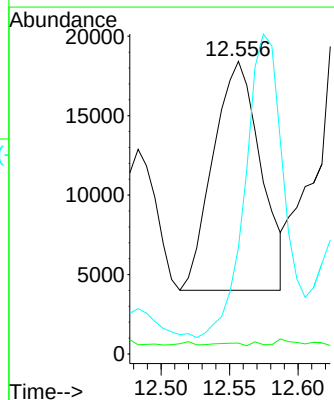
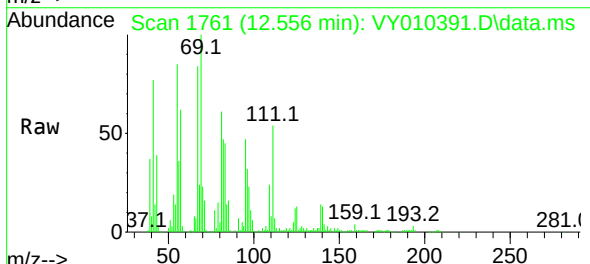
Instrument :
MSVOA_Y
ClientSampleId :
WC-14-A-SP-GR

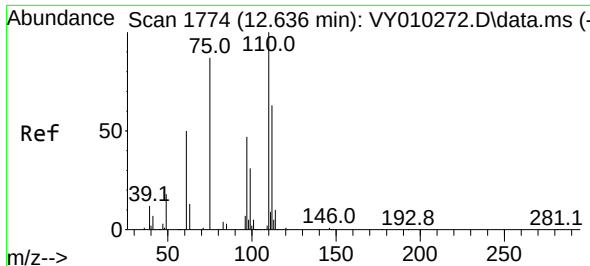
Tgt Ion: 43 Resp: 114048
Ion Ratio Lower Upper
43 100
70 0.0 28.7 43.1#
55 0.0 17.3 25.9#
61 0.0 17.0 25.6#



#75
1,1,2,2-Tetrachloroethane
Concen: 20.775 ug/l
RT: 12.556 min Scan# 1761
Delta R.T. -0.025 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion: 83 Resp: 34791
Ion Ratio Lower Upper
83 100
131 0.6 5.6 16.8#
85 0.0 32.3 96.8#

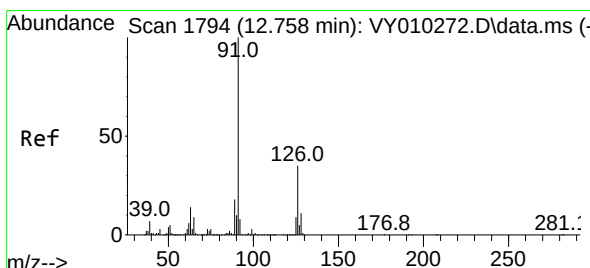
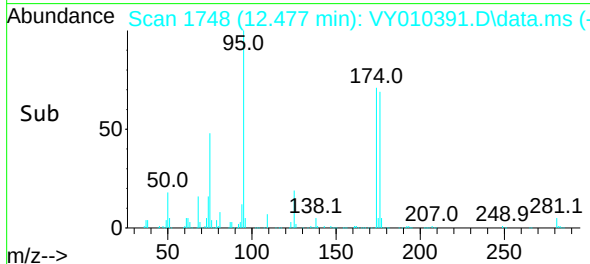
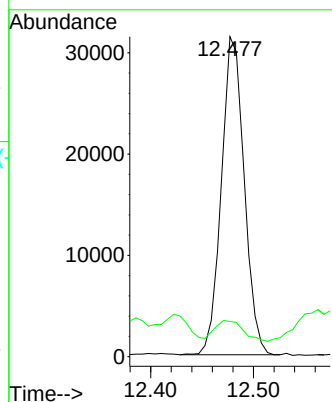
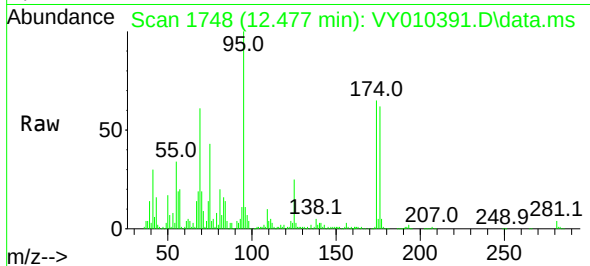




#76
1,2,3-Trichloropropane
Concen: 37.229 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.159 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

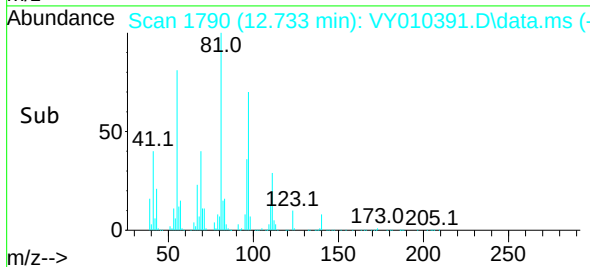
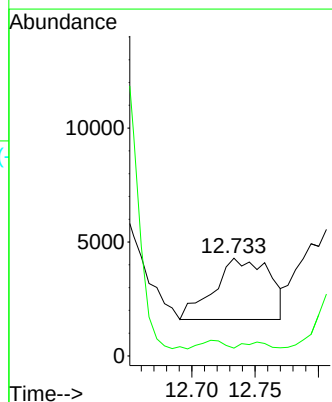
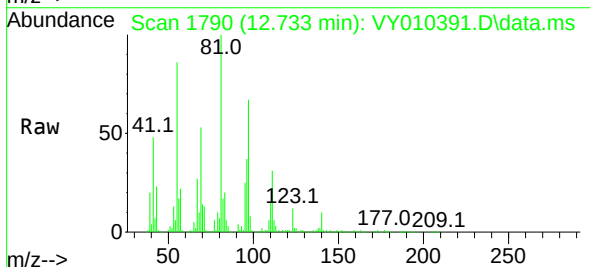
Instrument :
MSVOA_Y
ClientSampleId :
WC-14-A-SP-GR

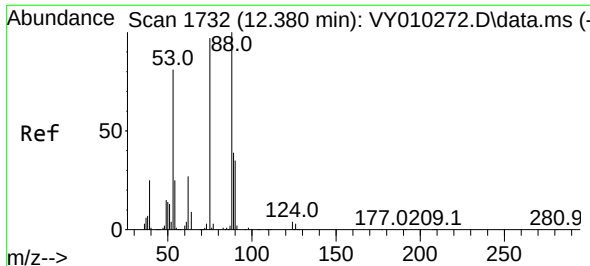
Tgt Ion: 75 Resp: 48390
Ion Ratio Lower Upper
75 100
77 8.0 0.0 0.0#



#79
2-Chlorotoluene
Concen: 1.395 ug/l
RT: 12.733 min Scan# 1790
Delta R.T. -0.025 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion: 91 Resp: 8246
Ion Ratio Lower Upper
91 100
126 0.0 16.9 50.6#

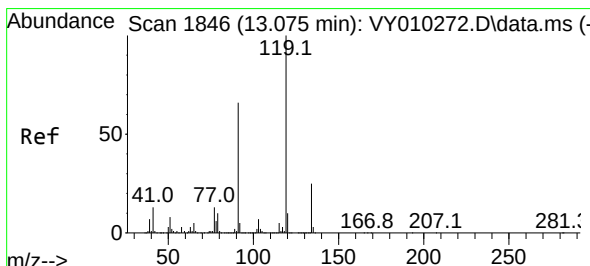
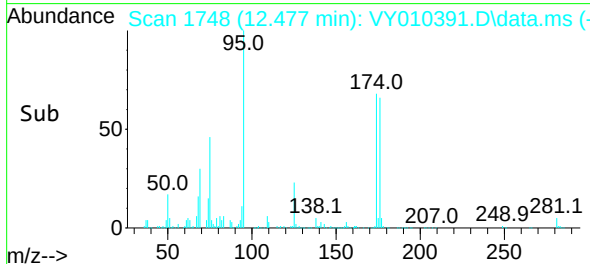
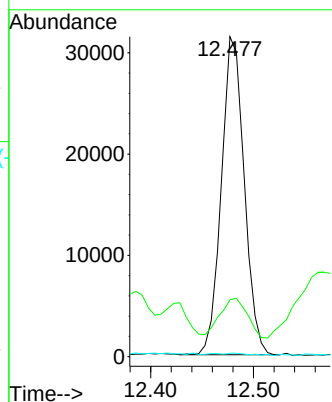
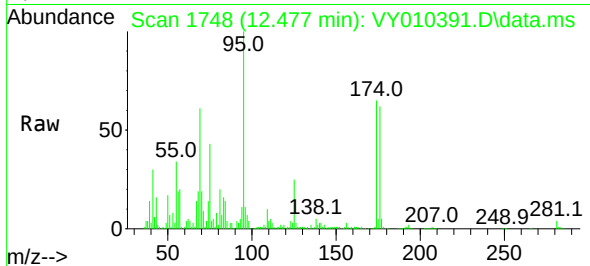




#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.665 ug/l
 RT: 12.477 min Scan# 11
 Delta R.T. 0.097 min
 Lab File: VY010391.D
 Acq: 08 Sep 2022 13:28

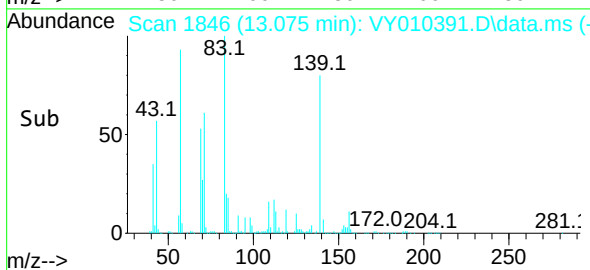
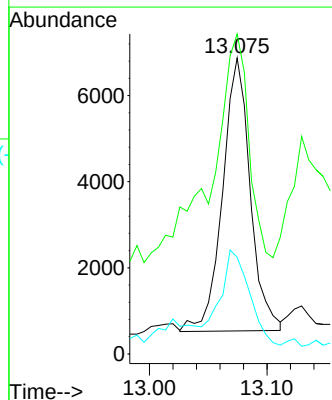
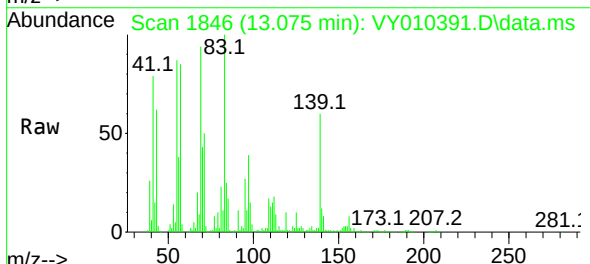
Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-14-A-SP-GR

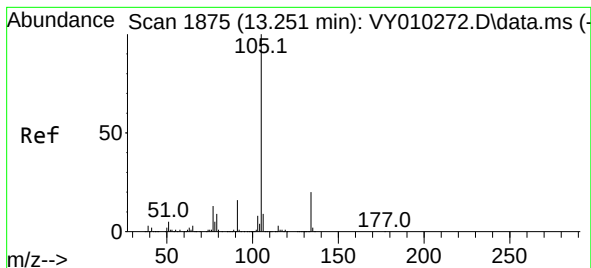
Tgt Ion: 75 Resp: 48390
 Ion Ratio Lower Upper
 75 100
 53 14.9 85.3 127.9#
 89 0.7 37.0 55.4#



#83
 tert-Butylbenzene
 Concen: 1.639 ug/l
 RT: 13.075 min Scan# 1846
 Delta R.T. -0.000 min
 Lab File: VY010391.D
 Acq: 08 Sep 2022 13:28

Tgt Ion: 119 Resp: 10396
 Ion Ratio Lower Upper
 119 100
 91 112.9 34.8 104.4#
 134 38.3 13.3 39.9





#85

sec-Butylbenzene

Concen: 1.166 ug/l

RT: 13.251 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY010391.D

Acq: 08 Sep 2022 13:28

Instrument :

MSVOA_Y

ClientSampleId :

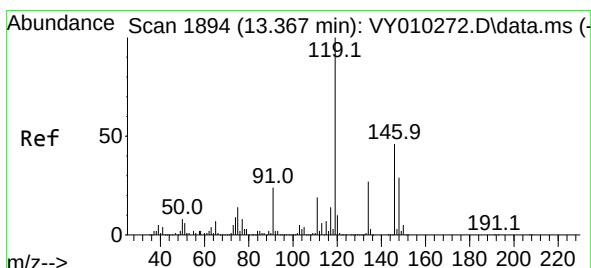
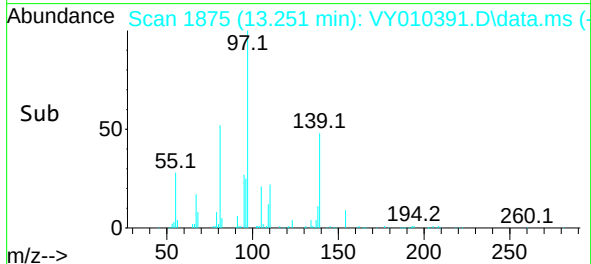
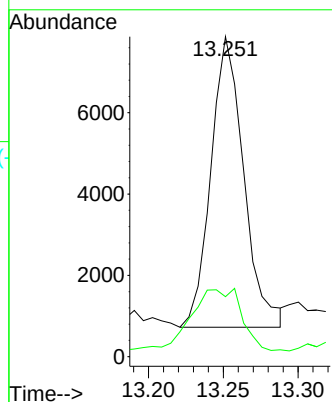
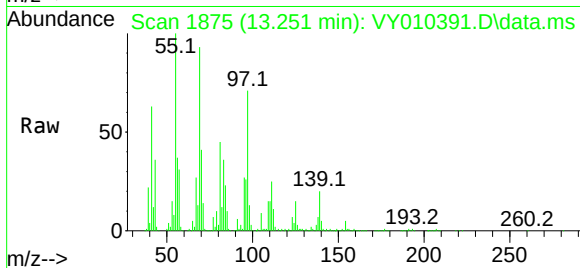
WC-14-A-SP-GR

Tgt Ion:105 Resp: 10935

Ion Ratio Lower Upper

105 100

134 33.9 10.2 30.4#



#86

p-Isopropyltoluene

Concen: 5.903 ug/l

RT: 13.526 min Scan# 1920

Delta R.T. 0.159 min

Lab File: VY010391.D

Acq: 08 Sep 2022 13:28

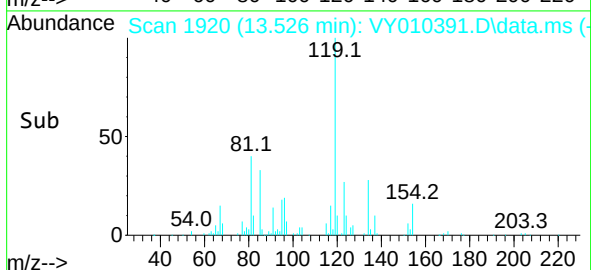
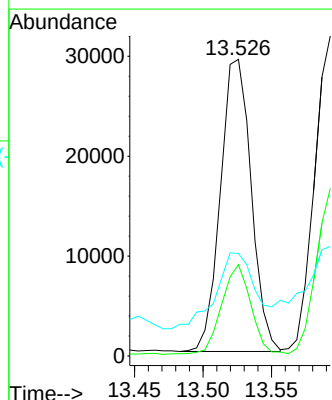
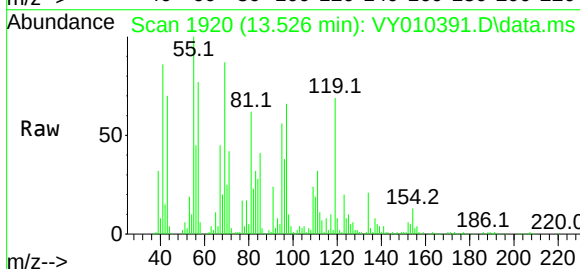
Tgt Ion:119 Resp: 45735

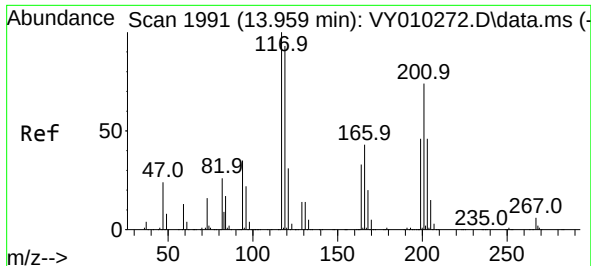
Ion Ratio Lower Upper

119 100

134 28.5 13.2 39.5

91 33.6 12.4 37.2

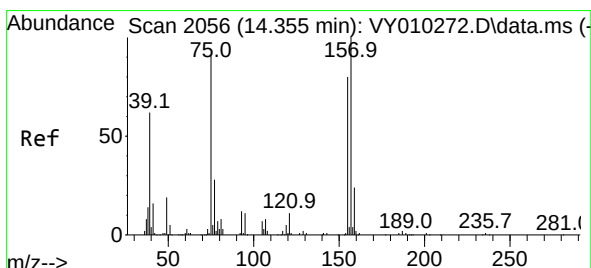
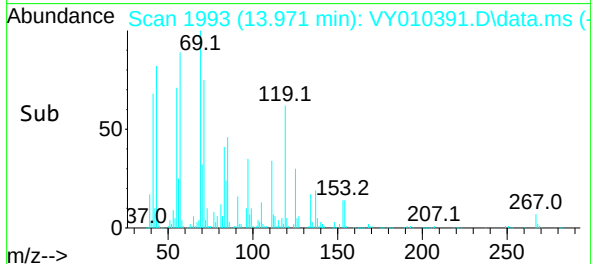
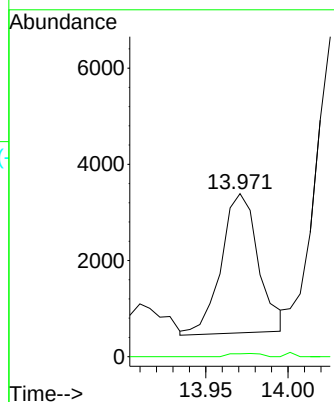
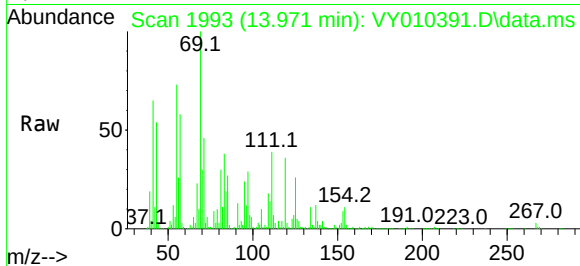




#90
Hexachloroethane
Concen: 3.075 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

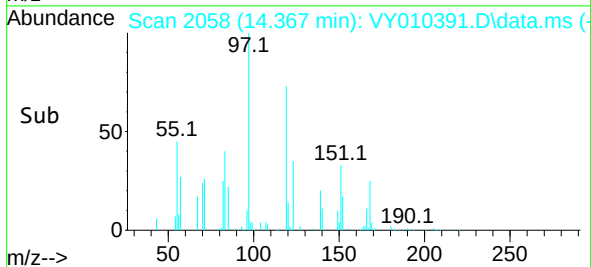
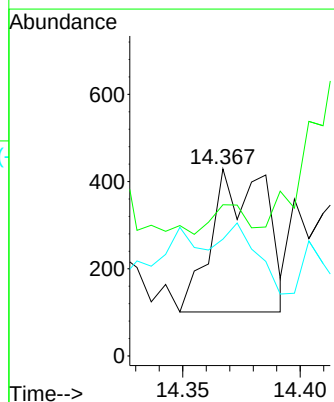
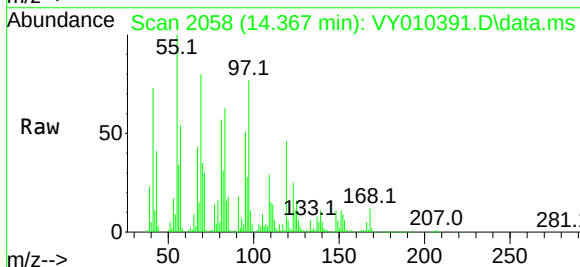
Instrument :
MSVOA_Y
ClientSampleId :
WC-14-A-SP-GR

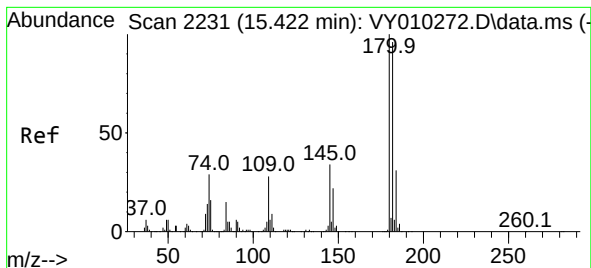
Tgt Ion:117 Resp: 4573
Ion Ratio Lower Upper
117 100
201 1.9 43.0 128.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.776 ug/l
RT: 14.367 min Scan# 2058
Delta R.T. 0.012 min
Lab File: VY010391.D
Acq: 08 Sep 2022 13:28

Tgt Ion: 75 Resp: 524
Ion Ratio Lower Upper
75 100
155 0.0 38.0 113.9#
157 32.6 47.8 143.3#





#96

1,2,3-Trichlorobenzene

Concen: 1.713 ug/l

RT: 15.440 min Scan# 21

Delta R.T. 0.018 min

Lab File: VY010391.D

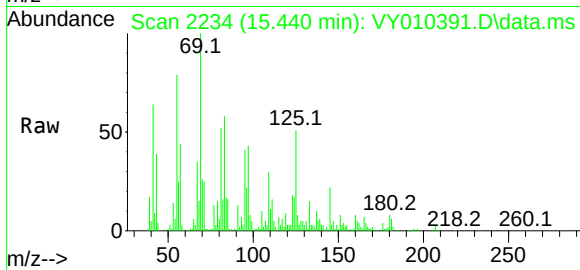
Acq: 08 Sep 2022 13:28

Instrument :

MSVOA_Y

ClientSampleId :

WC-14-A-SP-GR



Tgt Ion:180 Resp: 3081

Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.9#

145 0.0 15.3 45.9#

