

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110724\
 Data File : VY020213.D
 Acq On : 07 Nov 2024 17:41
 Operator : SY/MD
 Sample : P4739-15
 Misc : 4.59g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 08 00:30:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

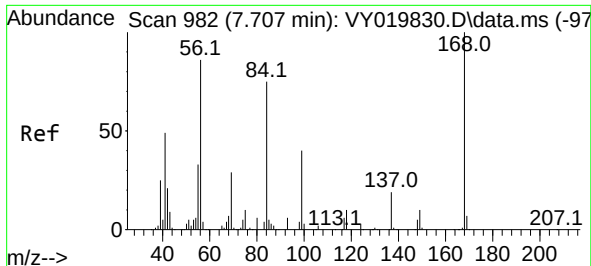
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.720	168	5895	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.616	114	9460	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	5369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	485	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	2863	38.913	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	77.820%
35) Dibromofluoromethane	7.628	113	2733	45.439	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	90.880%
50) Toluene-d8	10.109	98	10205	42.625	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	85.260%
62) 4-Bromofluorobenzene	12.408	95	1301	16.730	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	33.460%
Target Compounds						
						Qvalue
3) Chloromethane	2.068	50	172	1.903	ug/l	# 43
11) Tert butyl alcohol	4.860	59	64	12.093	ug/l	# 88
13) Acrolein	3.653	56	37	5.616	ug/l	# 15
15) Acrylonitrile	5.128	53	44	2.924	ug/l	# 52
16) Acetone	3.891	43	37	2.162	ug/l	# 36
18) Methyl Acetate	4.342	43	93	2.317	ug/l	# 46
20) Methylene Chloride	4.610	84	399	5.191	ug/l	# 41
29) Tetrahydrofuran	7.232	42	19	1.420	ug/l	# 26
36) 1,1-Dichloropropene	7.738	75	104	1.119	ug/l	# 40
38) Carbon Tetrachloride	7.713	117	706	7.556	ug/l	# 13
41) Methacrylonitrile	7.250	41	64	2.884	ug/l	# 16
45) 1,2-Dichloropropane	8.963	63	71	1.094	ug/l	# 43
48) Methyl methacrylate	9.213	41	99	2.509	ug/l	# 1
56) Ethyl methacrylate	10.317	69	63	1.005	ug/l	# 1
73) Isopropylbenzene	12.249	105	50	1.291	ug/l	# 48
74) N-amyl acetate	12.091	43	21	2.168	ug/l	# 11
75) 1,1,2,2-Tetrachloroethane	12.560	83	79	11.659	ug/l	# 52
76) 1,2,3-Trichloropropane	12.402	75	738	162.327	ug/l	# 100
78) n-propylbenzene	12.591	91	106	2.198	ug/l	# 53
79) 2-Chlorotoluene	12.670	91	59	2.204	ug/l	# 39
80) 1,3,5-Trimethylbenzene	12.658	105	202	6.494	ug/l	# 71
81) trans-1,4-Dichloro-2-b...	12.402	75	738	349.161	ug/l	# 16
84) 1,2,4-Trimethylbenzene	13.036	105	401	13.016	ug/l	# 81
85) sec-Butylbenzene	13.036	105	401	9.604	ug/l	# 56
88) 1,4-Dichlorobenzene	13.584	146	24	1.514	ug/l	# 25
90) Hexachloroethane	14.078	117	65	9.809	ug/l	# 12
91) 1,2-Dichlorobenzene	13.584	146	24	1.735	ug/l	# 25
92) 1,2-Dibromo-3-Chloropr...	14.212	75	50	48.657	ug/l	# 1
95) Naphthalene	15.157	128	68	4.894	ug/l	# 69

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

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QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

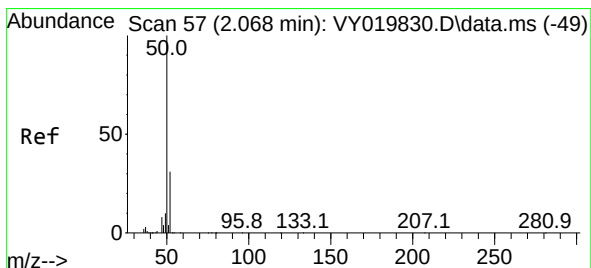
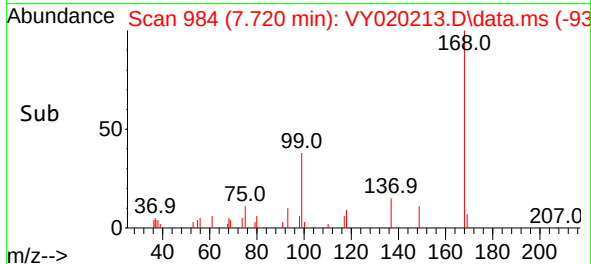
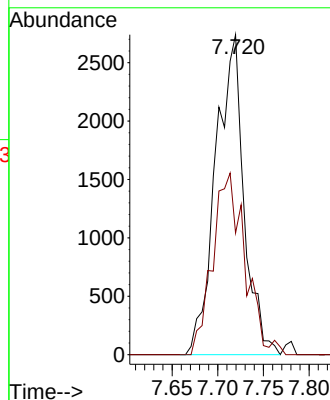
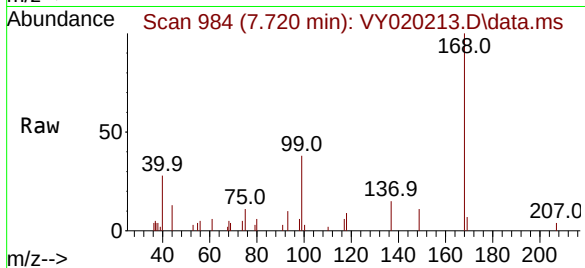




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 91
Delta R.T. 0.013 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

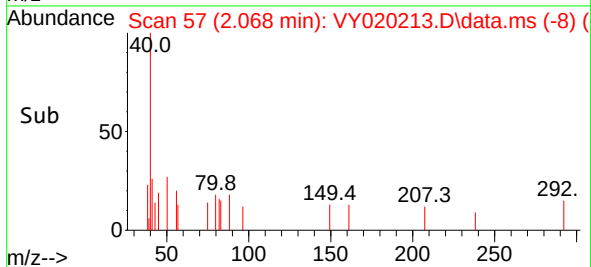
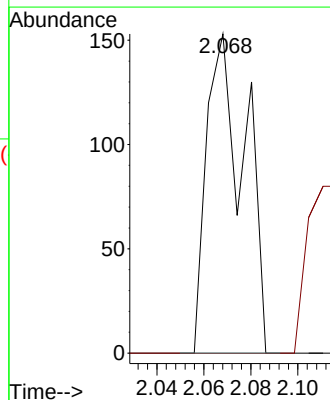
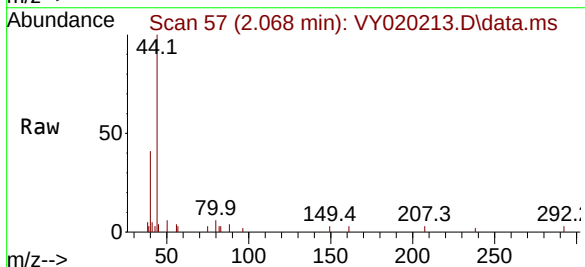
Instrument :
MSVOA_Y
ClientSampleId :

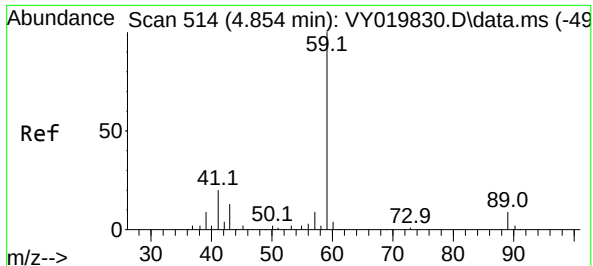
Tgt Ion:168 Resp: 5895
Ion Ratio Lower Upper
168 100
99 38.0 39.1 58.7#



#3
Chloromethane
Concen: 1.903 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Tgt Ion: 50 Resp: 172
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#

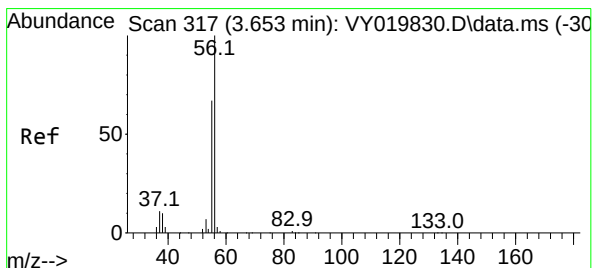
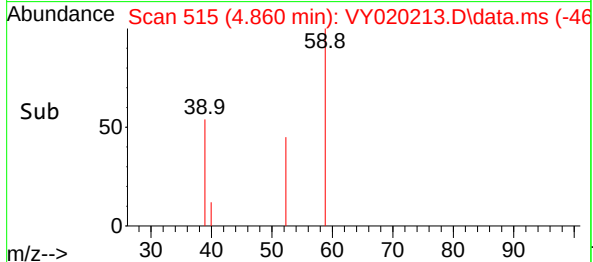
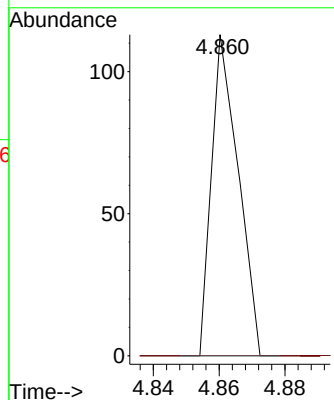
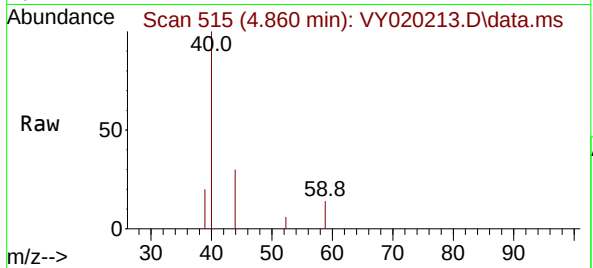




#11
Tert butyl alcohol
Concen: 12.093 ug/l
RT: 4.860 min Scan# 514
Delta R.T. 0.000 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

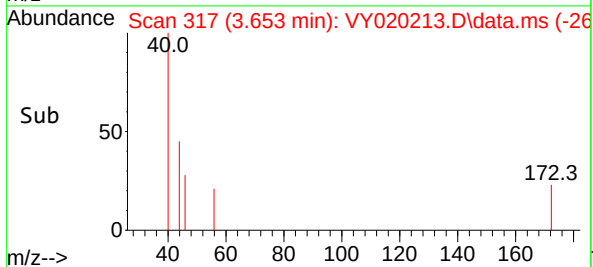
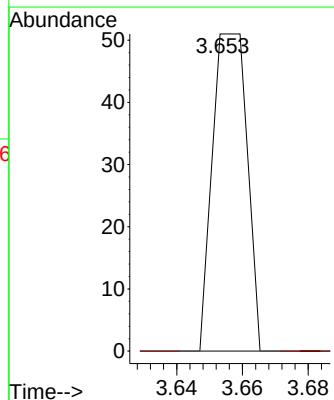
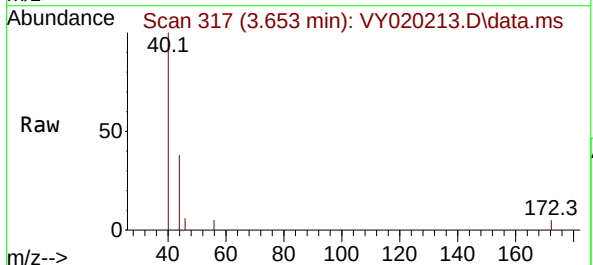
Instrument :
MSVOA_Y
ClientSampleId :

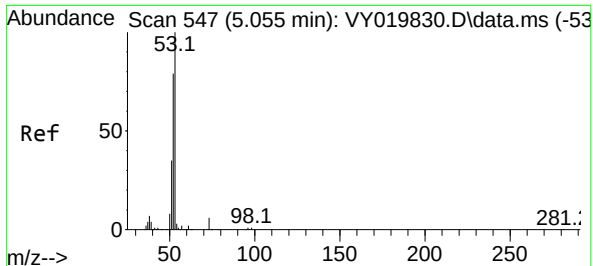
Tgt Ion: 59 Resp: 64
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#



#13
Acrolein
Concen: 5.616 ug/l
RT: 3.653 min Scan# 317
Delta R.T. 0.000 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

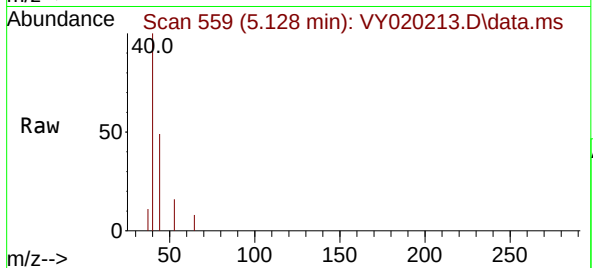
Tgt Ion: 56 Resp: 37
Ion Ratio Lower Upper
56 100
55 0.0 55.7 83.5#



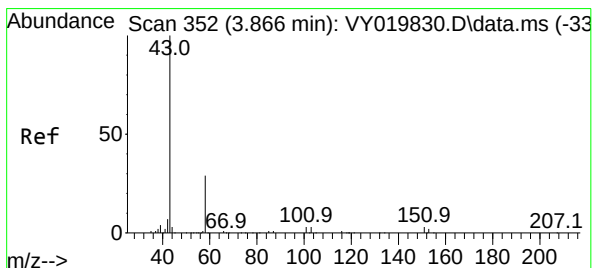
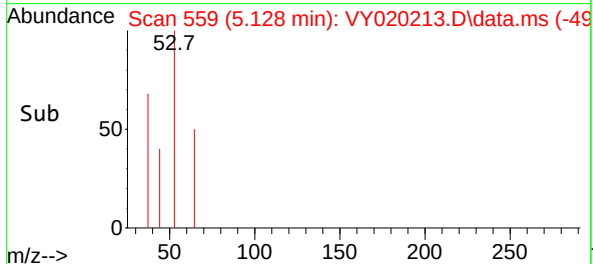
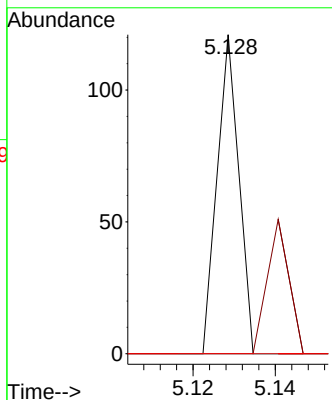


#15
Acrylonitrile
Concen: 2.924 ug/l
RT: 5.128 min Scan# 51
Delta R.T. 0.074 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Instrument :
MSVOA_Y
ClientSampleId :

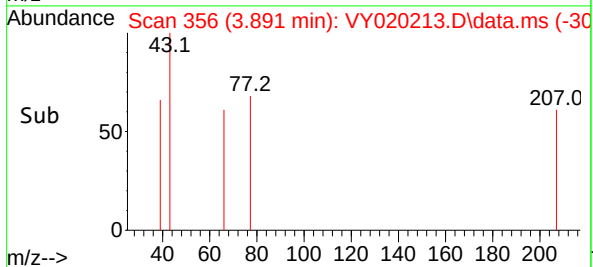
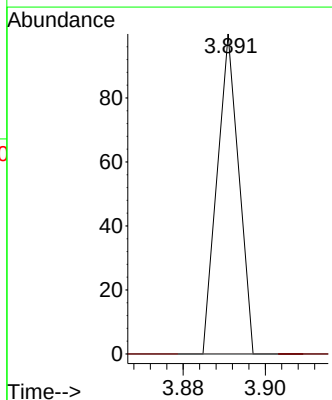
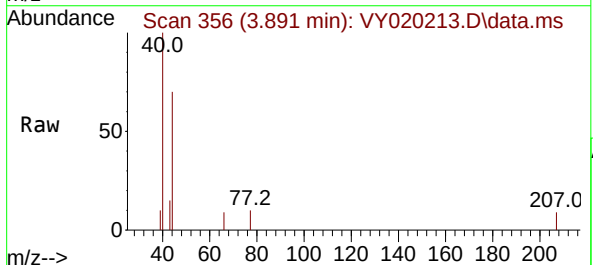


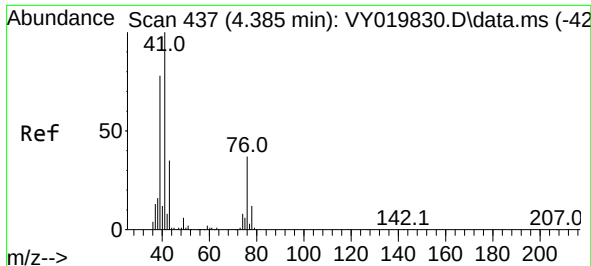
Tgt Ion: 53 Resp: 44
Ion Ratio Lower Upper
53 100
52 43.2 64.7 97.1#
51 0.0 28.4 42.6#



#16
Acetone
Concen: 2.162 ug/l
RT: 3.891 min Scan# 356
Delta R.T. 0.019 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Tgt Ion: 43 Resp: 37
Ion Ratio Lower Upper
43 100
58 0.0 31.7 47.5#

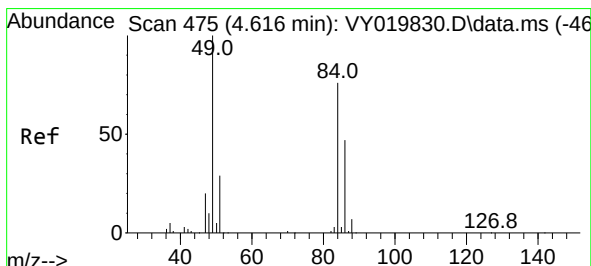
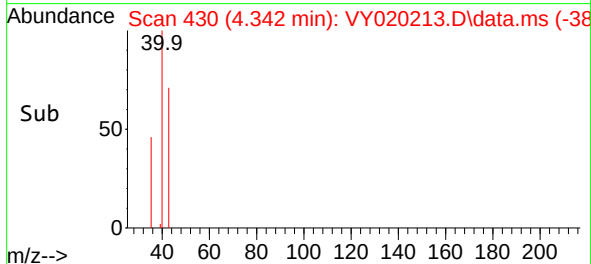
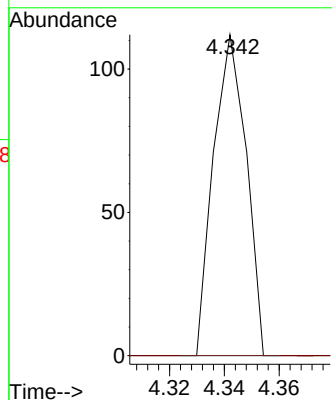
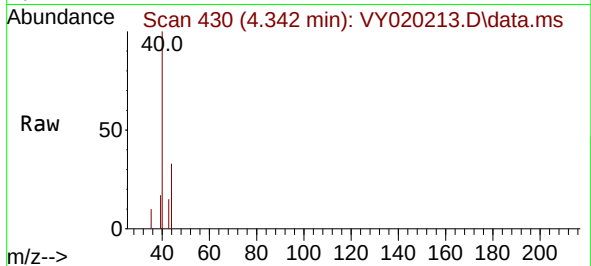




#18
Methyl Acetate
Concen: 2.317 ug/l
RT: 4.342 min Scan# 41
Delta R.T. -0.042 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

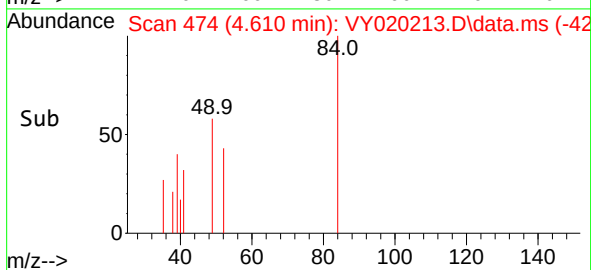
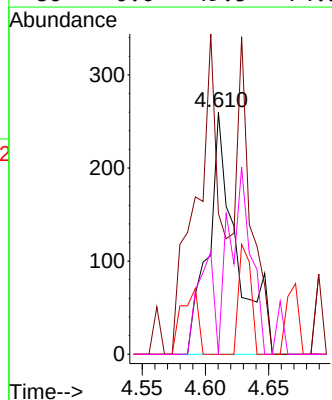
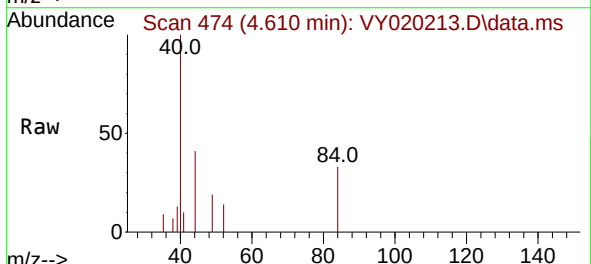
Instrument :
MSVOA_Y
ClientSampleId :

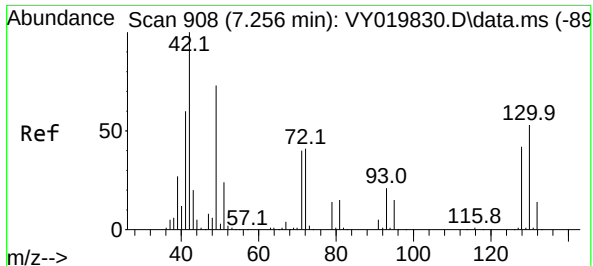
Tgt Ion: 43 Resp: 93
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#



#20
Methylene Chloride
Concen: 5.191 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Tgt Ion: 84 Resp: 399
Ion Ratio Lower Upper
84 100
49 58.1 84.4 126.6#
51 0.0 26.0 39.0#
86 0.0 49.5 74.3#





#29

Tetrahydrofuran

Concen: 1.420 ug/l

RT: 7.232 min Scan# 904

Delta R.T. -0.030 min

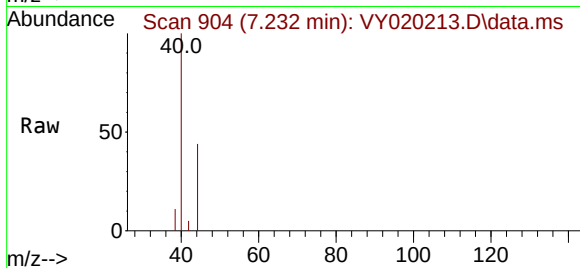
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Acq: 07 Nov 2024 17:41

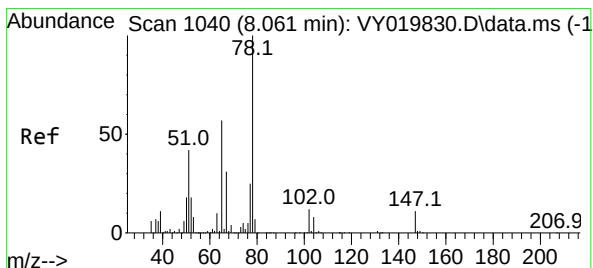
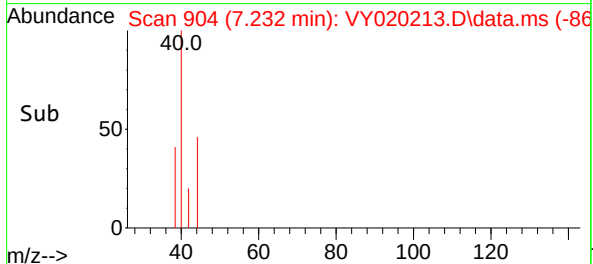
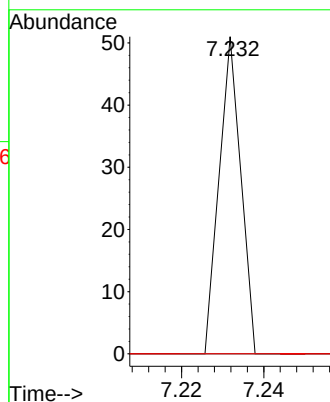
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	42	Resp:	19
Ion	Ratio	Lower	Upper
42	100		
72	0.0	43.0	64.4#
71	0.0	40.8	61.2#



#33

1,2-Dichloroethane-d4

Concen: 38.913 ug/l

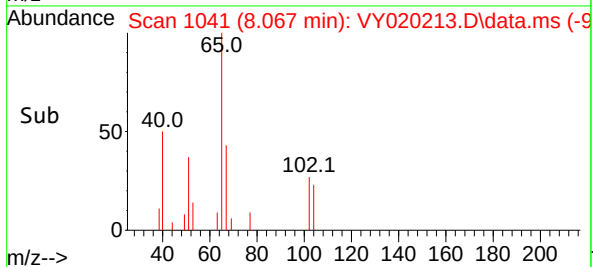
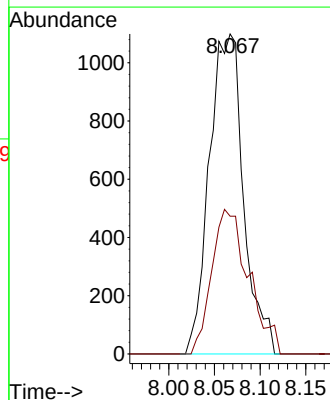
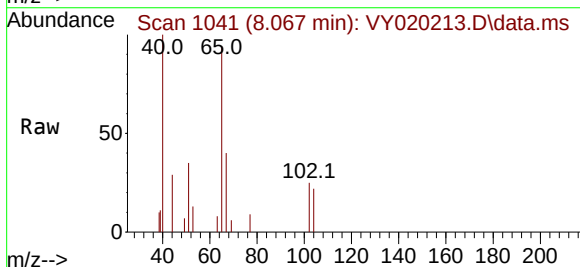
RT: 8.067 min Scan# 1041

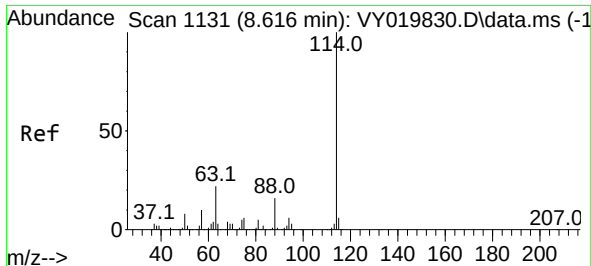
Delta R.T. 0.007 min

Lab File: VY020213.D

Acq: 07 Nov 2024 17:41

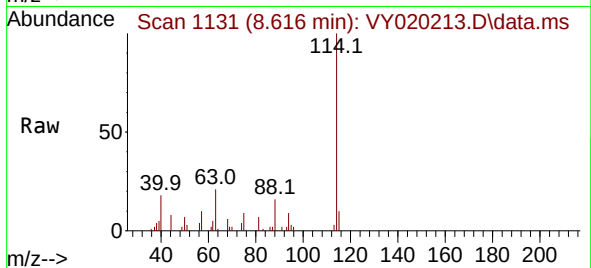
Tgt Ion:	65	Resp:	2863
Ion	Ratio	Lower	Upper
65	100		
67	48.8	0.0	109.6



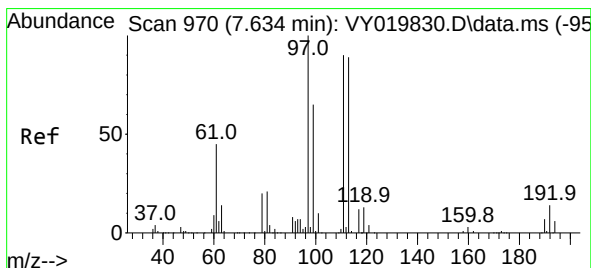
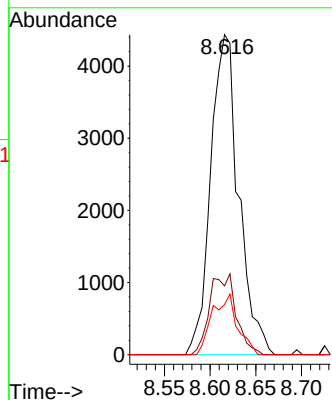
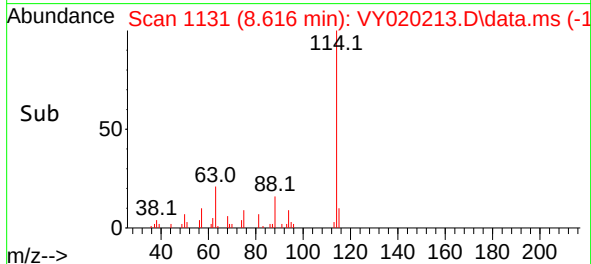


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Instrument :
MSVOA_Y
ClientSampleId :

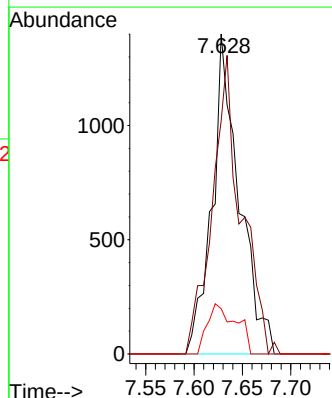
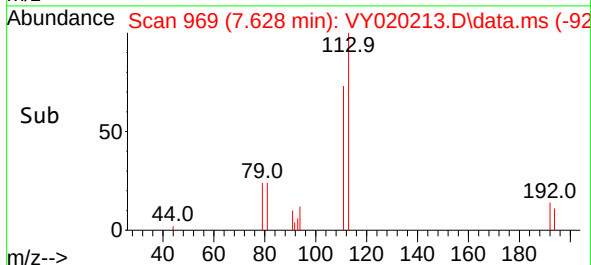
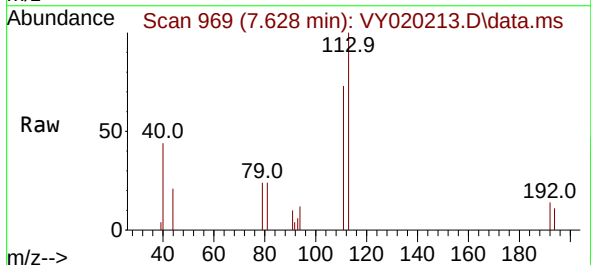


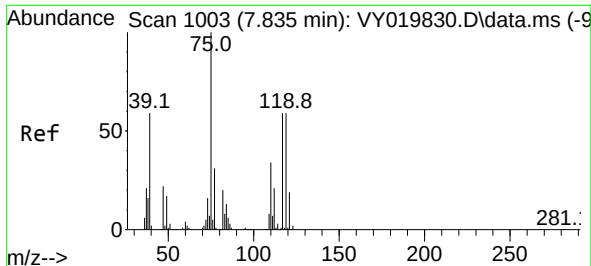
Tgt Ion:114 Resp: 9460
Ion Ratio Lower Upper
114 100
63 21.5 0.0 35.0
88 15.7 0.0 27.2



#35
Dibromofluoromethane
Concen: 45.439 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Tgt Ion:113 Resp: 2733
Ion Ratio Lower Upper
113 100
111 99.0 82.2 123.4
192 16.5 15.9 23.9





#36

1,1-Dichloropropene

Concen: 1.119 ug/l

RT: 7.738 min Scan# 91

Delta R.T. -0.097 min

Lab File: VY020213.D

Acq: 07 Nov 2024 17:41

Instrument :

MSVOA_Y

ClientSampleId :

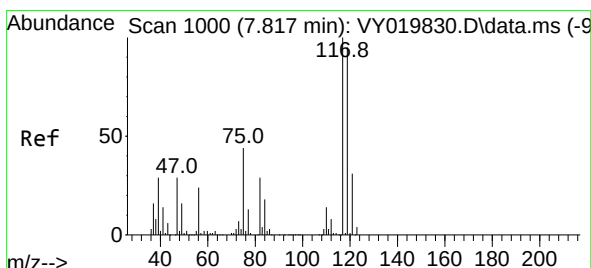
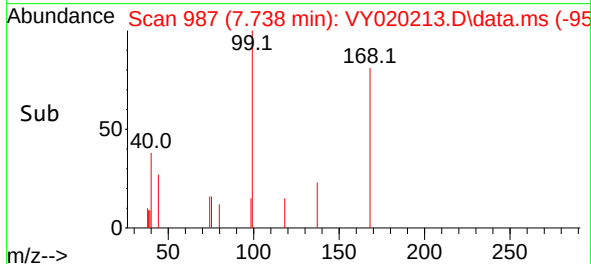
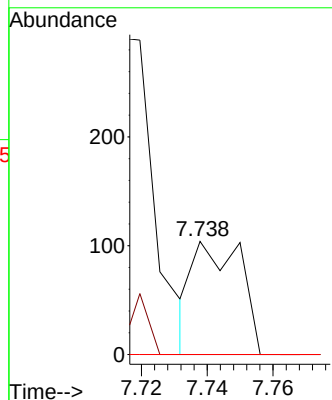
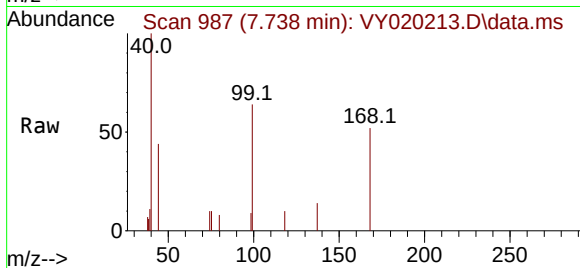
Tgt Ion: 75 Resp: 104

Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 7.556 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.103 min

Lab File: VY020213.D

Acq: 07 Nov 2024 17:41

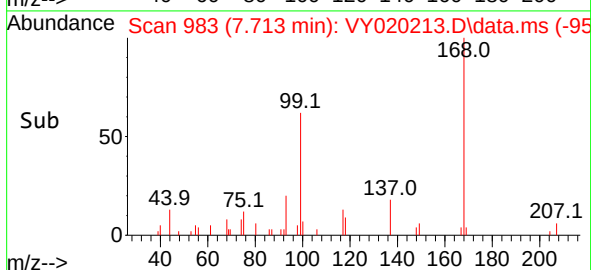
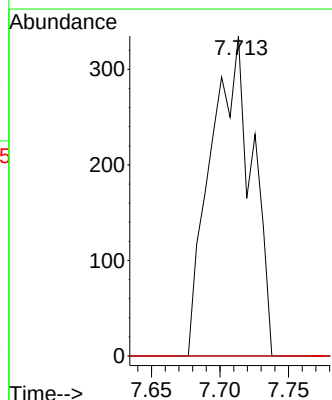
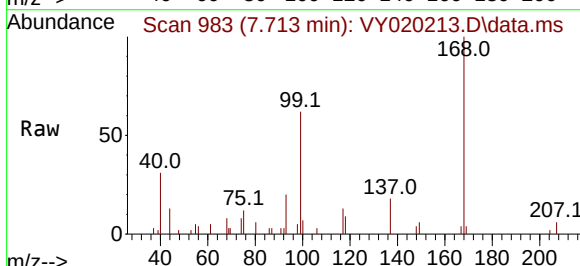
Tgt Ion: 117 Resp: 706

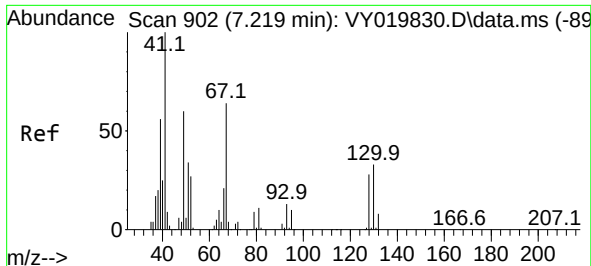
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

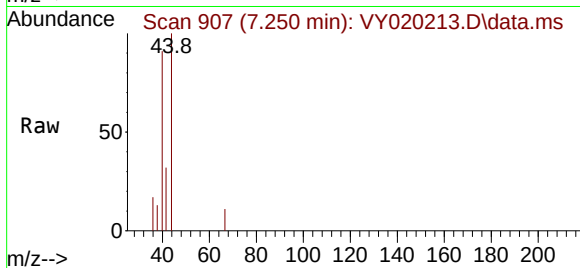
121 0.0 24.0 36.0#



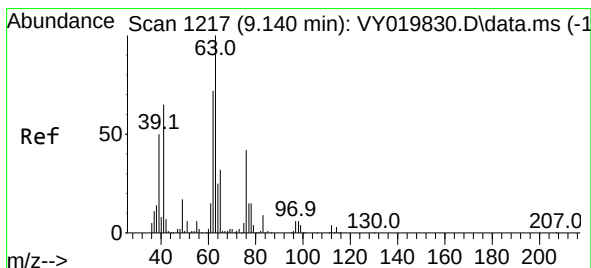
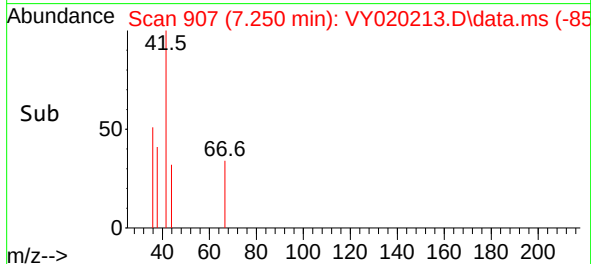
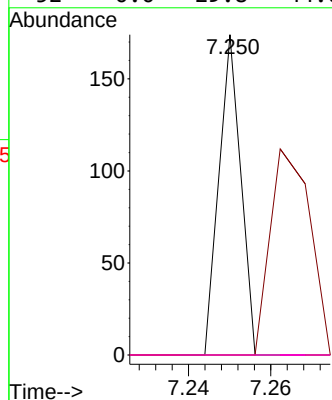


#41
Methacrylonitrile
Concen: 2.884 ug/l
RT: 7.250 min Scan# 90
Delta R.T. 0.031 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Instrument :
MSVOA_Y
ClientSampleId :

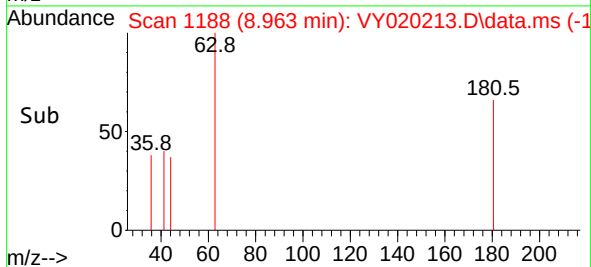
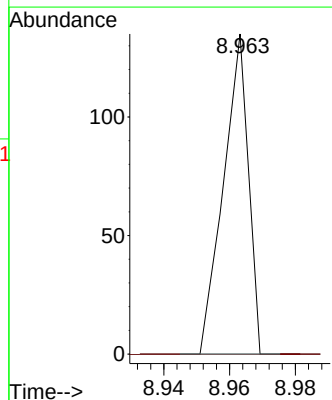
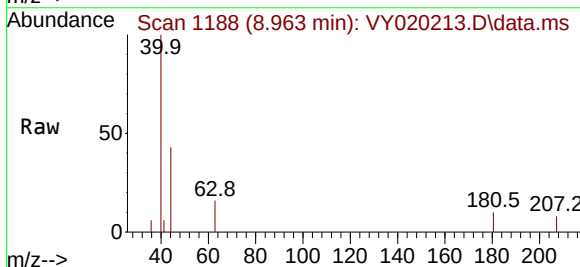


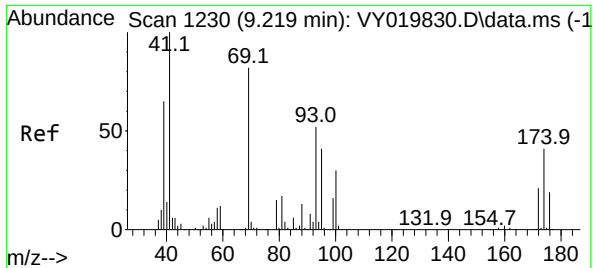
Tgt Ion: 41	Resp: 64
Ion Ratio	Lower Upper
41 100	
39 117.2	48.0 72.0#
67 0.0	75.1 112.7#
52 0.0	29.8 44.6#



#45
1,2-Dichloropropane
Concen: 1.094 ug/l
RT: 8.963 min Scan# 1188
Delta R.T. -0.176 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Tgt Ion: 63	Resp: 71		
Ion Ratio	Lower	Upper	
63 100			
65 0.0	25.4	38.2#	

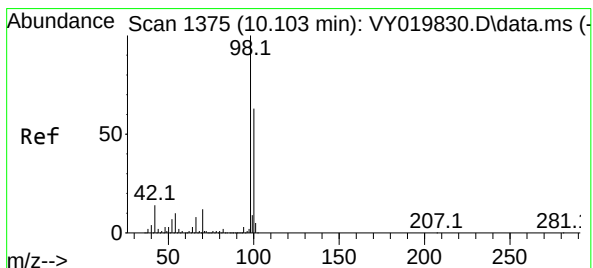
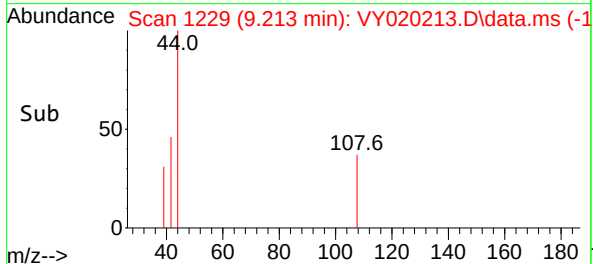
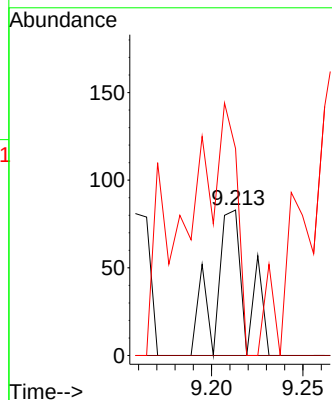
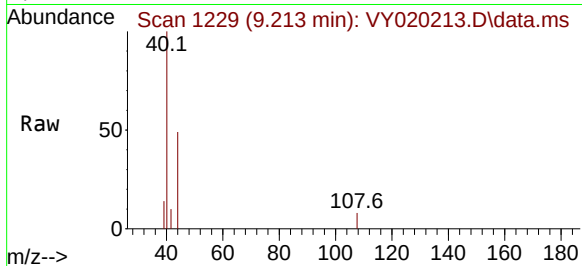




#48
Methyl methacrylate
Concen: 2.509 ug/l
RT: 9.213 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

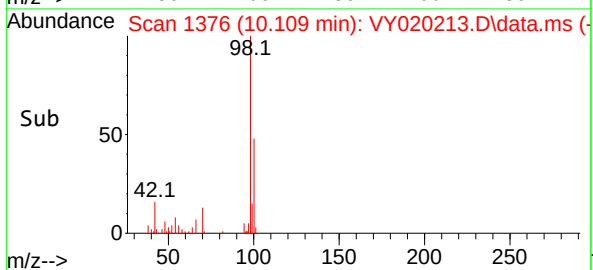
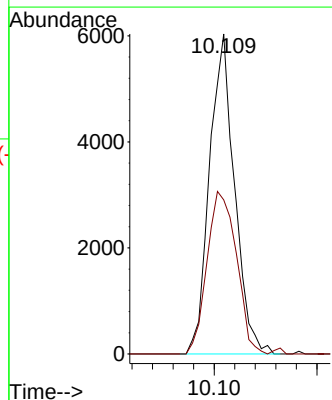
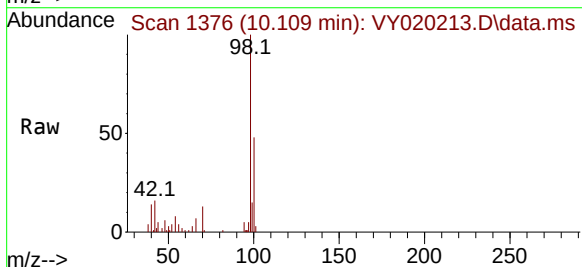
Instrument :
MSVOA_Y
ClientSampleId :

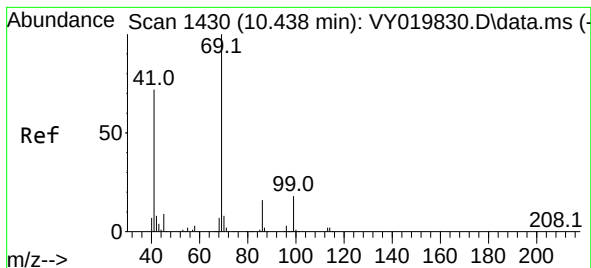
Tgt Ion: 41 Resp: 99
Ion Ratio Lower Upper
41 100
69 0.0 84.1 126.1#
39 284.8 43.6 65.4#



#50
Toluene-d8
Concen: 42.625 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

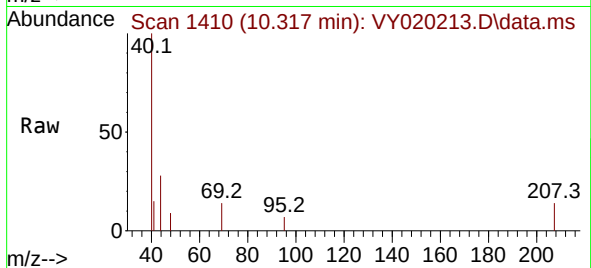
Tgt Ion: 98 Resp: 10205
Ion Ratio Lower Upper
98 100
100 59.6 52.0 78.0



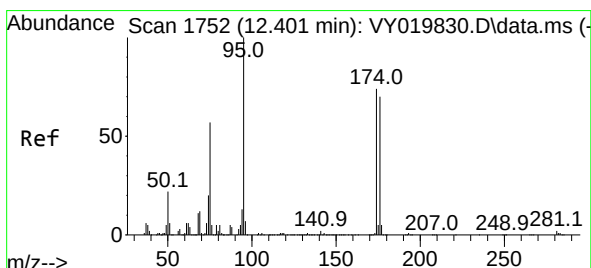
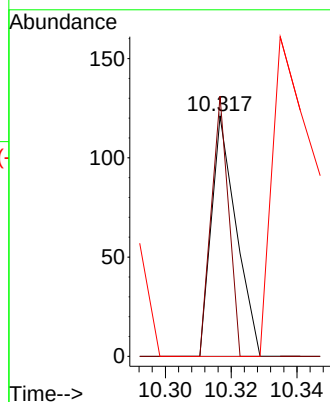
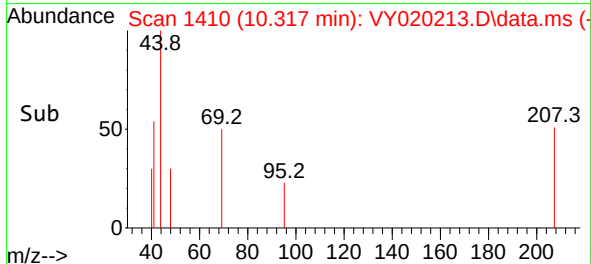


#56
Ethyl methacrylate
Concen: 1.005 ug/l
RT: 10.317 min Scan# 1430
Delta R.T. -0.122 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Instrument :
MSVOA_Y
ClientSampleId :

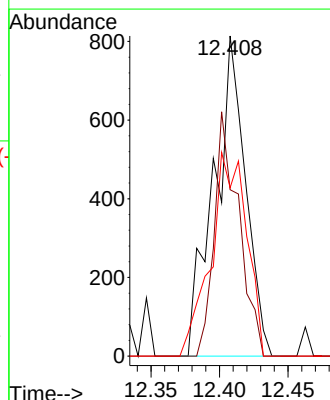
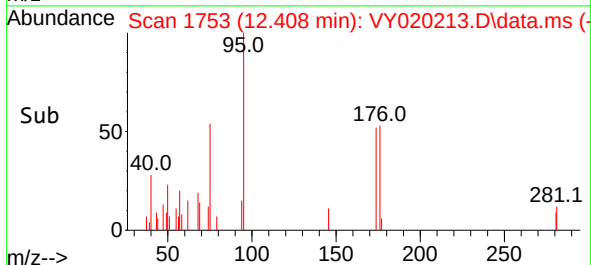
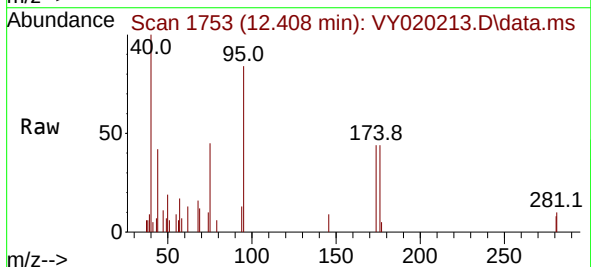


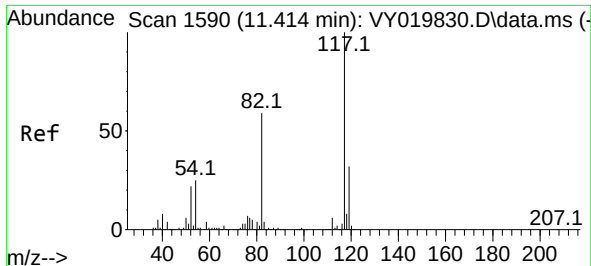
Tgt Ion: 69 Resp: 63
Ion Ratio Lower Upper
69 100
41 76.2 42.3 63.5#
39 219.0 22.9 34.3#



#62
4-Bromofluorobenzene
Concen: 16.730 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

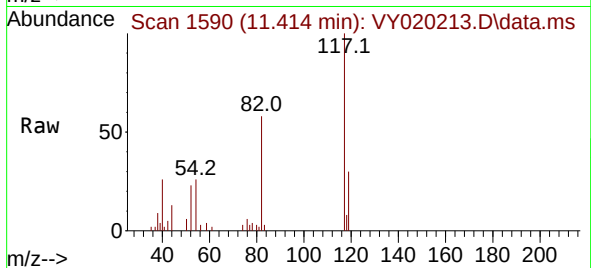
Tgt Ion: 95 Resp: 1301
Ion Ratio Lower Upper
95 100
174 58.8 0.0 175.6
176 72.3 0.0 171.4



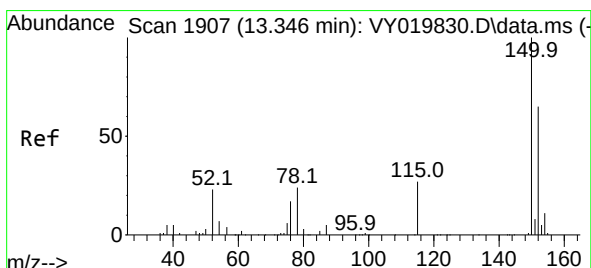
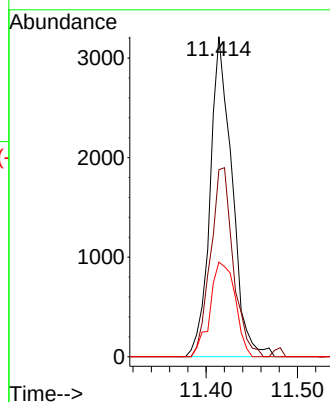
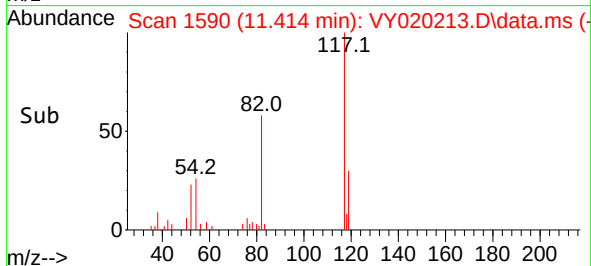


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.006 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

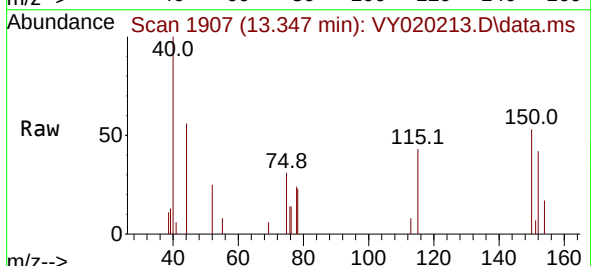
Instrument :
MSVOA_Y
ClientSampleId :



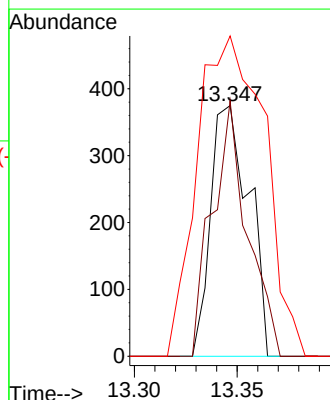
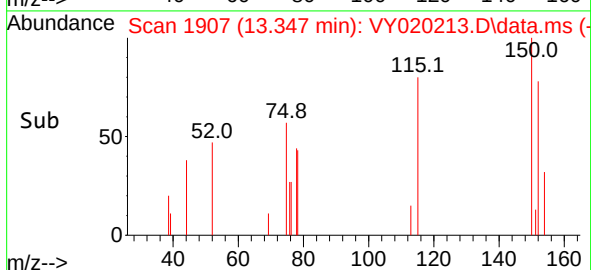
Tgt Ion:117 Resp: 5369
Ion Ratio Lower Upper
117 100
82 58.5 42.4 63.6
119 29.5 25.9 38.9

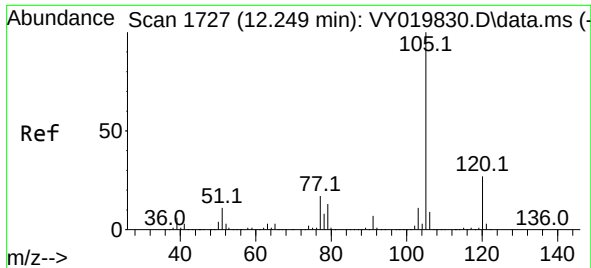


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41



Tgt Ion:152 Resp: 485
Ion Ratio Lower Upper
152 100
115 93.8 28.2 84.7#
150 225.4 0.0 345.6

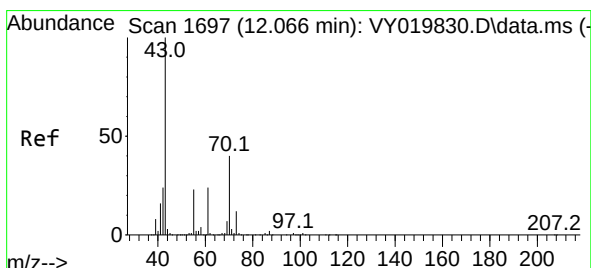
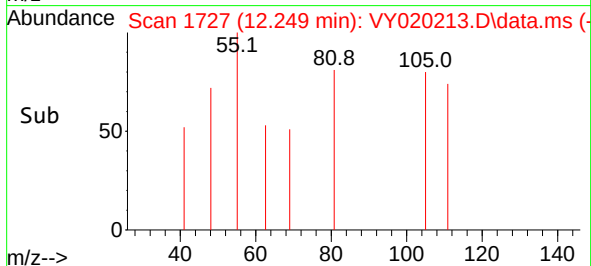
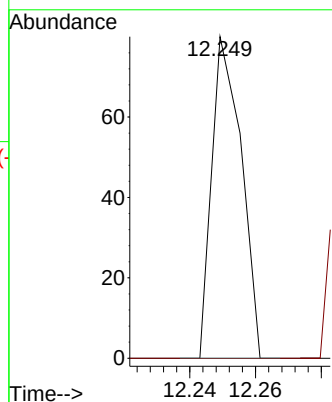
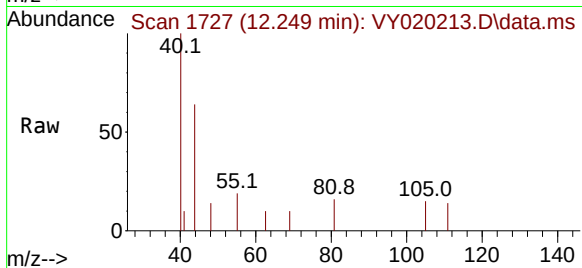




#73
Isopropylbenzene
Concen: 1.291 ug/l
RT: 12.249 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

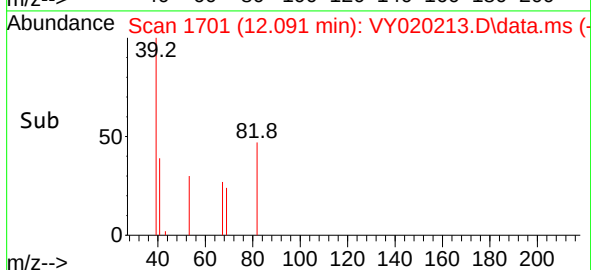
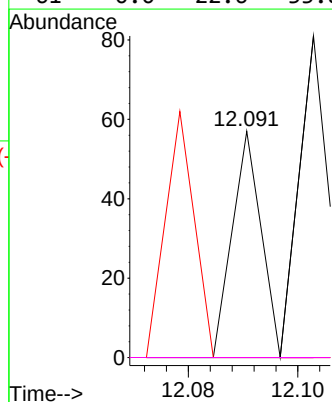
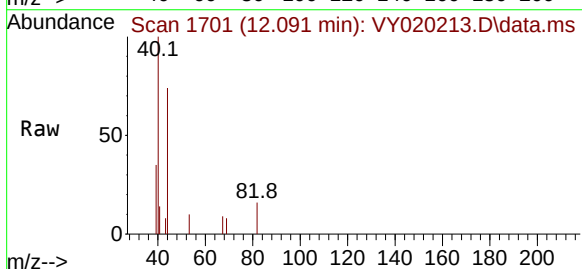
Instrument :
MSVOA_Y
ClientSampleId :

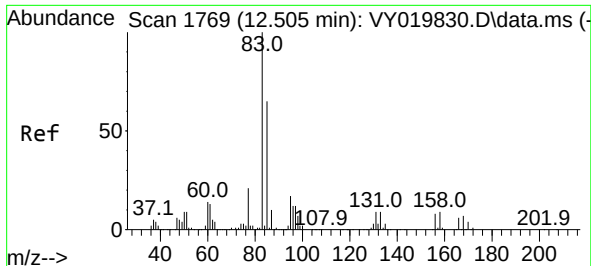
Tgt Ion:105 Resp: 50
Ion Ratio Lower Upper
105 100
120 0.0 13.4 40.1#



#74
N-ethyl acetate
Concen: 2.168 ug/l
RT: 12.091 min Scan# 1701
Delta R.T. 0.019 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Tgt Ion: 43 Resp: 21
Ion Ratio Lower Upper
43 100
70 0.0 41.4 62.2#
55 109.5 23.3 34.9#
61 0.0 22.6 33.8#

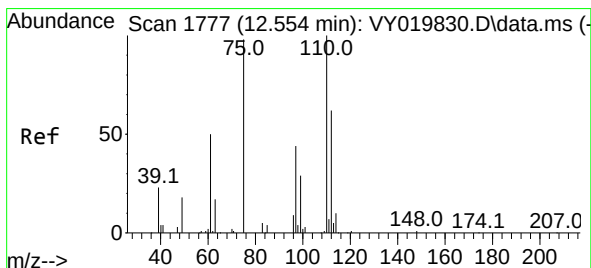
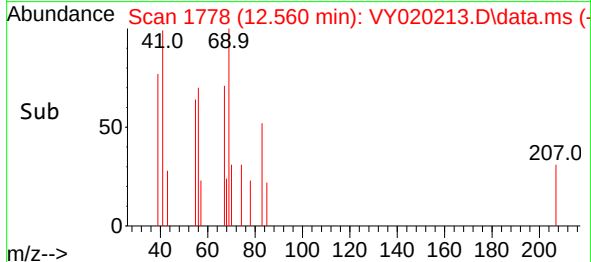
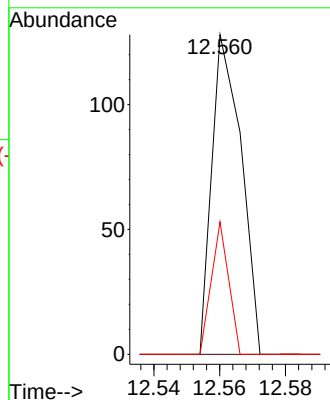
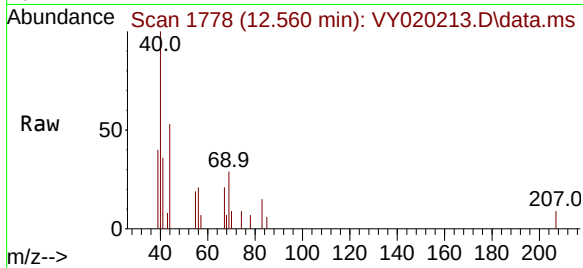




#75
1,1,2,2-Tetrachloroethane
Concen: 11.659 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.049 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

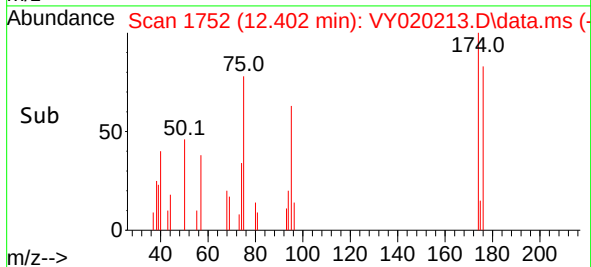
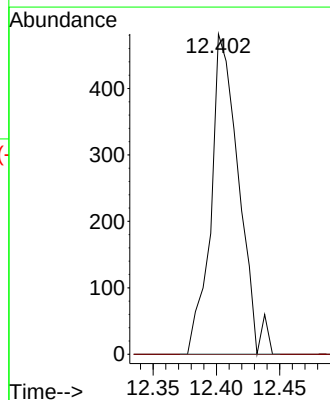
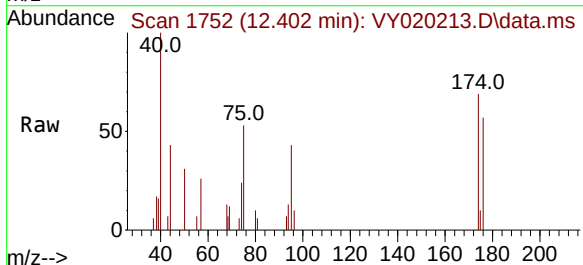
Instrument :
MSVOA_Y
ClientSampleId :

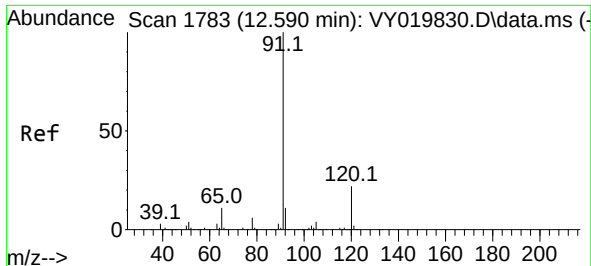
Tgt Ion: 83 Resp: 79
Ion Ratio Lower Upper
83 100
131 0.0 5.0 14.9#
85 24.1 32.0 96.0#



#76
1,2,3-Trichloropropane
Concen: 162.327 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.158 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Tgt Ion: 75 Resp: 738
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

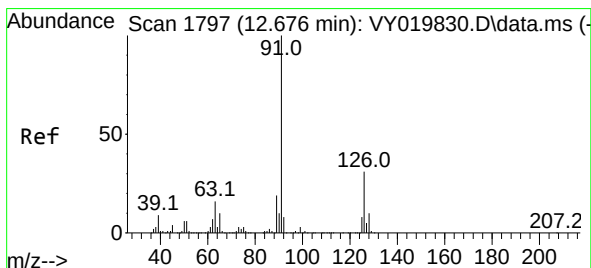
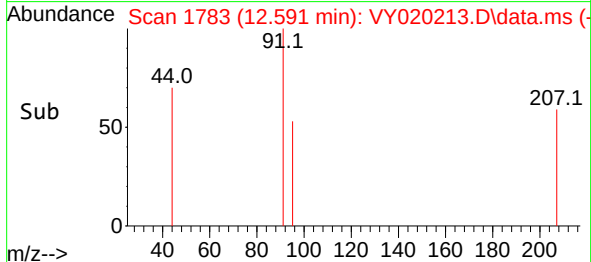
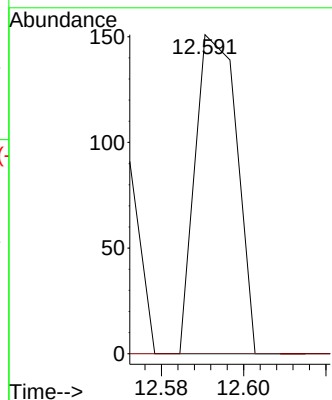
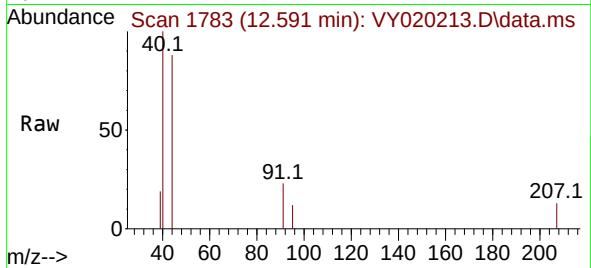




#78
n-propylbenzene
Concen: 2.198 ug/l
RT: 12.591 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

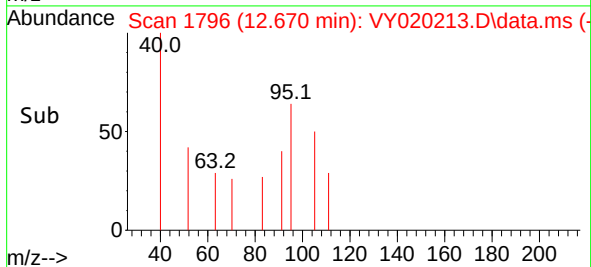
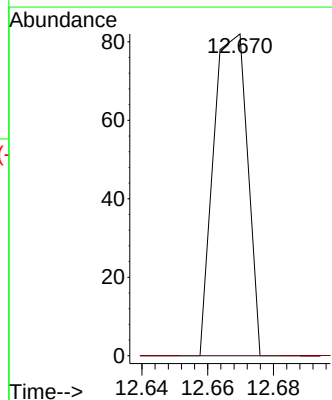
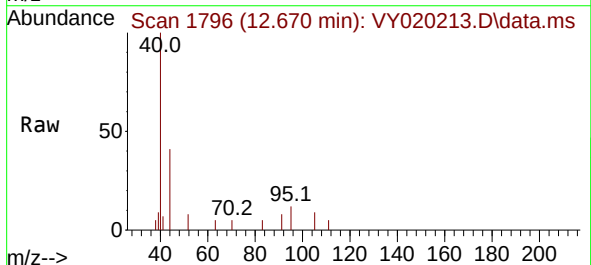
Instrument :
MSVOA_Y
ClientSampleId :

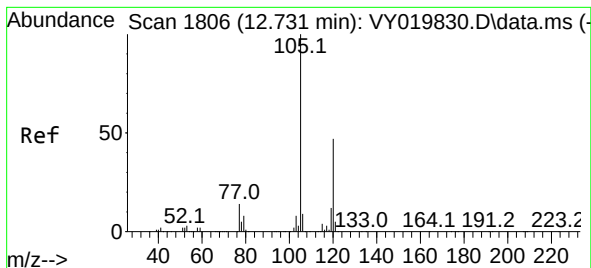
Tgt Ion: 91 Resp: 106
Ion Ratio Lower Upper
91 100
120 0.0 11.5 34.4#



#79
2-Chlorotoluene
Concen: 2.204 ug/l
RT: 12.670 min Scan# 1796
Delta R.T. -0.012 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Tgt Ion: 91 Resp: 59
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.5#





#80

1,3,5-Trimethylbenzene

Concen: 6.494 ug/l

RT: 12.658 min Scan# 11

Delta R.T. -0.079 min

Lab File: VY020213.D

Acq: 07 Nov 2024 17:41

Instrument :

MSVOA_Y

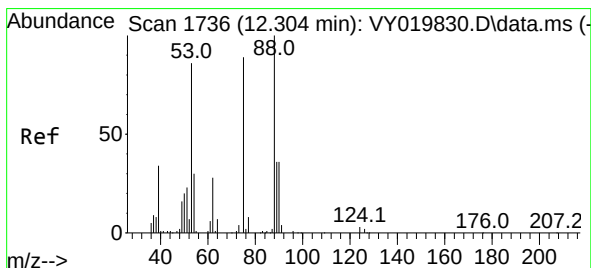
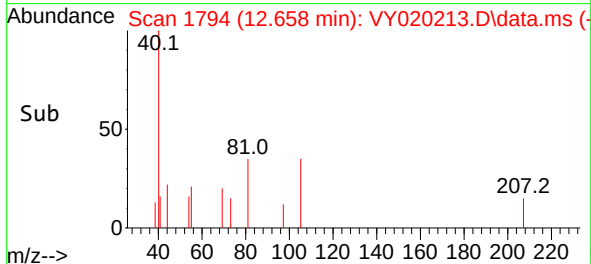
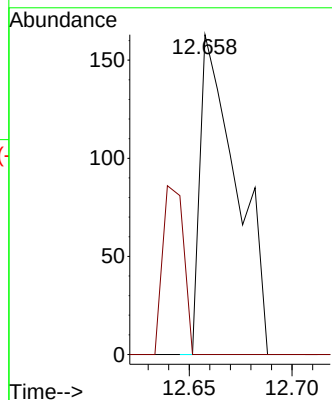
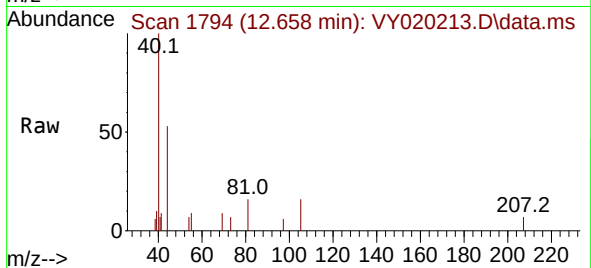
ClientSampleId :

Tgt Ion:105 Resp: 202

Ion Ratio Lower Upper

105 100

120 30.2 25.1 75.2



#81

trans-1,4-Dichloro-2-butene

Concen: 349.161 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.098 min

Lab File: VY020213.D

Acq: 07 Nov 2024 17:41

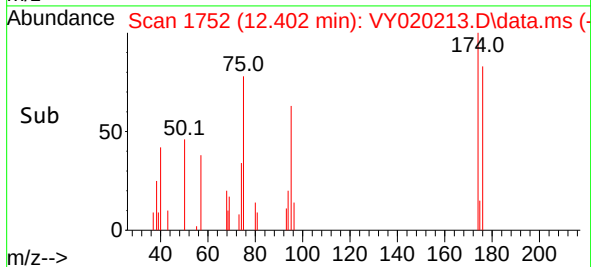
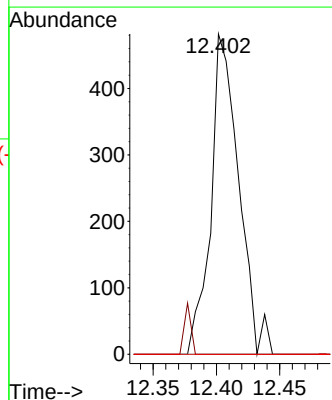
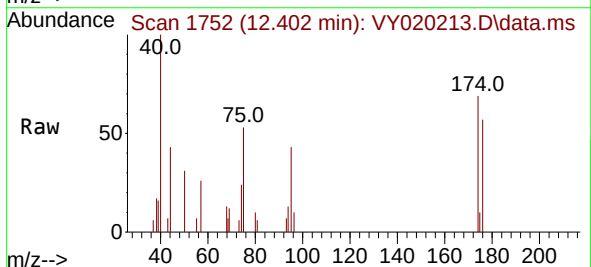
Tgt Ion: 75 Resp: 738

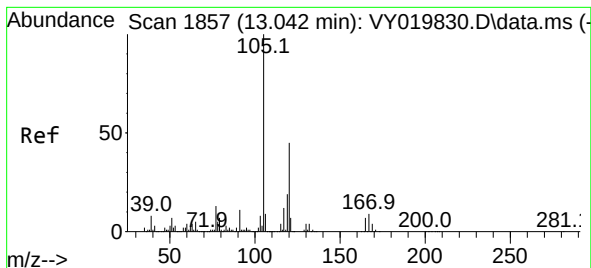
Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

89 0.0 35.8 53.6#





#84

1,2,4-Trimethylbenzene

Concen: 13.016 ug/l

RT: 13.036 min Scan# 1856

Delta R.T. -0.012 min

Lab File: VY020213.D

Acq: 07 Nov 2024 17:41

Instrument :

MSVOA_Y

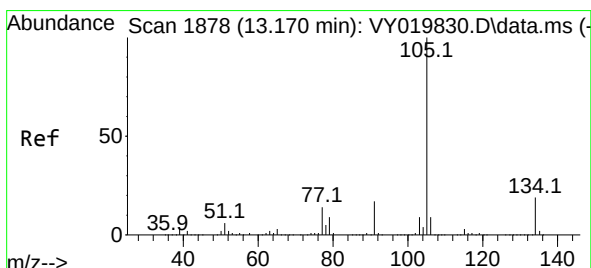
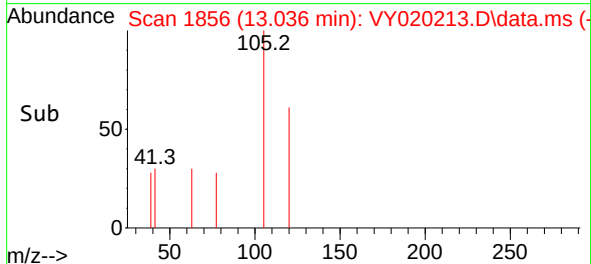
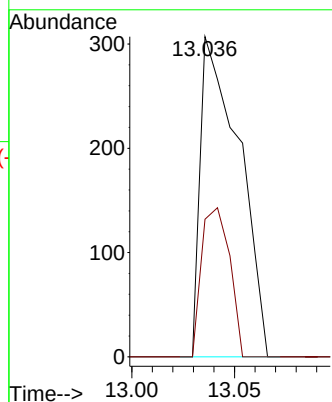
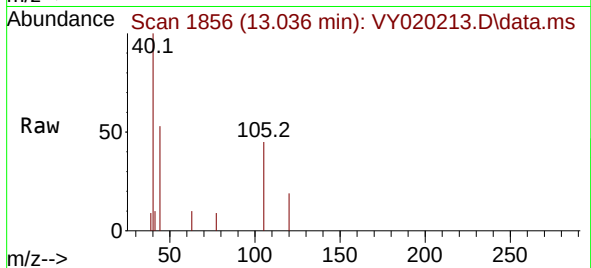
ClientSampleId :

Tgt Ion:105 Resp: 401

Ion Ratio Lower Upper

105 100

120 33.9 23.2 69.6



#85

sec-Butylbenzene

Concen: 9.604 ug/l

RT: 13.036 min Scan# 1856

Delta R.T. -0.140 min

Lab File: VY020213.D

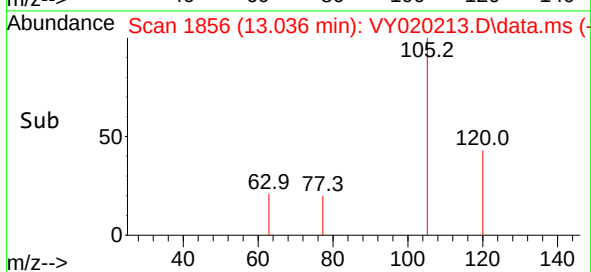
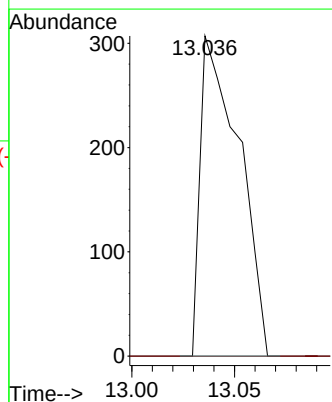
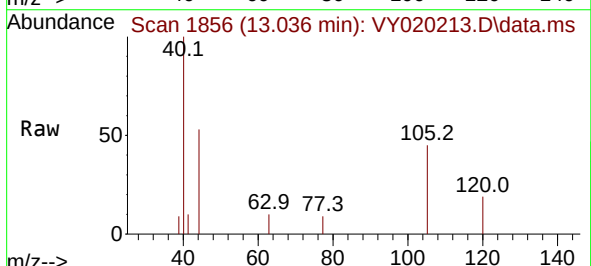
Acq: 07 Nov 2024 17:41

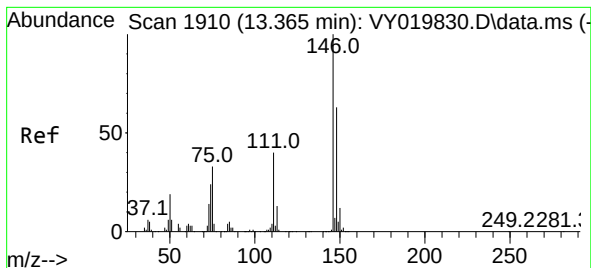
Tgt Ion:105 Resp: 401

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#





#88

1,4-Dichlorobenzene

Concen: 1.514 ug/l

RT: 13.584 min Scan# 1910

Delta R.T. 0.214 min

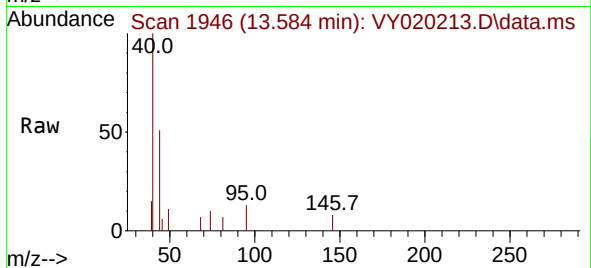
Lab File: VY020213.D

Acq: 07 Nov 2024 17:41

Instrument :

MSVOA_Y

ClientSampleId :



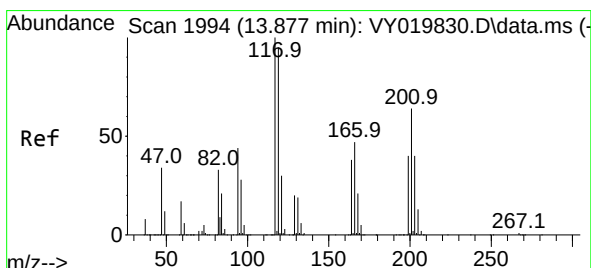
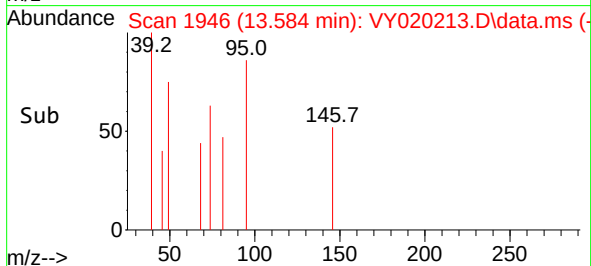
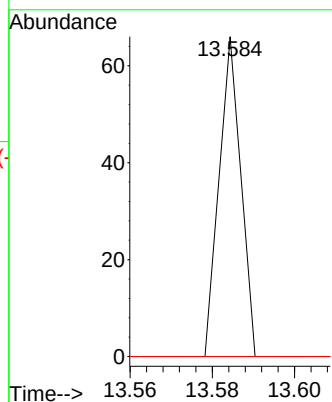
Tgt Ion:146 Resp: 24

Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.4#

148 0.0 32.4 97.2#



#90

Hexachloroethane

Concen: 9.809 ug/l

RT: 14.078 min Scan# 2027

Delta R.T. 0.195 min

Lab File: VY020213.D

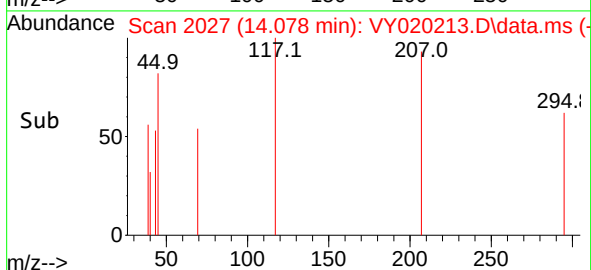
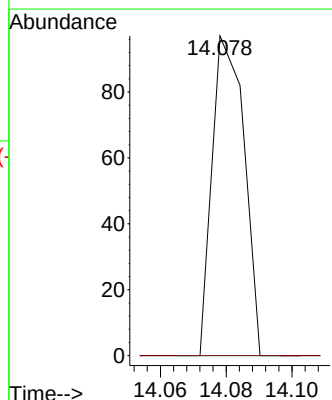
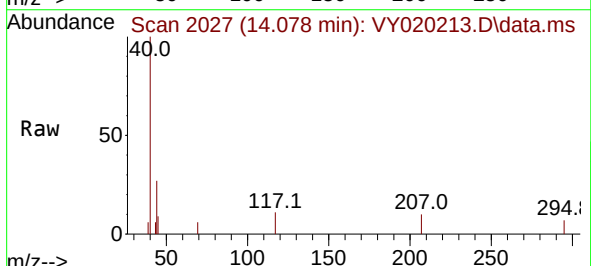
Acq: 07 Nov 2024 17:41

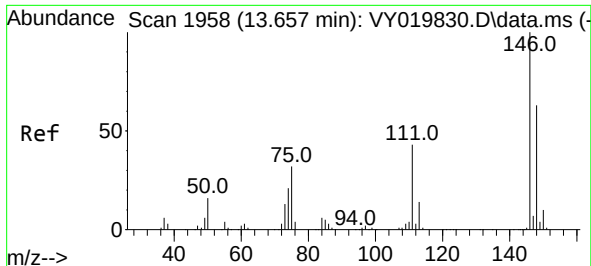
Tgt Ion:117 Resp: 65

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#





#91

1,2-Dichlorobenzene

Concen: 1.735 ug/l

RT: 13.584 min Scan# 1946

Delta R.T. -0.073 min

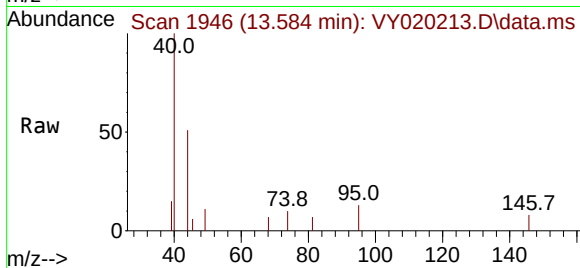
Lab File: VY020213.D

Acq: 07 Nov 2024 17:41

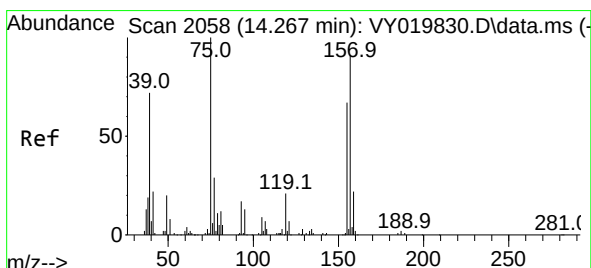
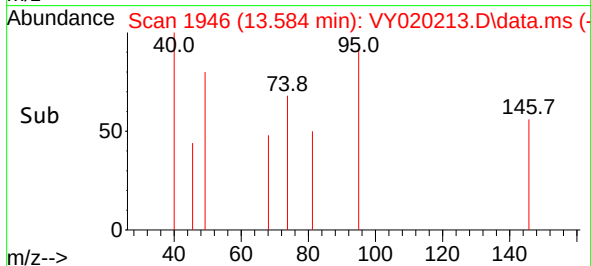
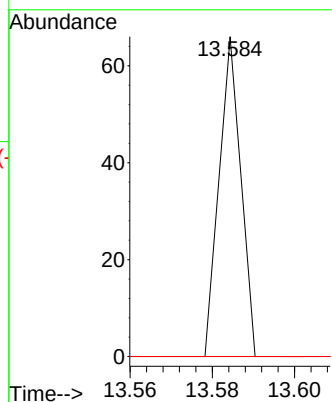
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	146	Resp:	24
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.9	59.7#
148	0.0	31.8	95.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 48.657 ug/l

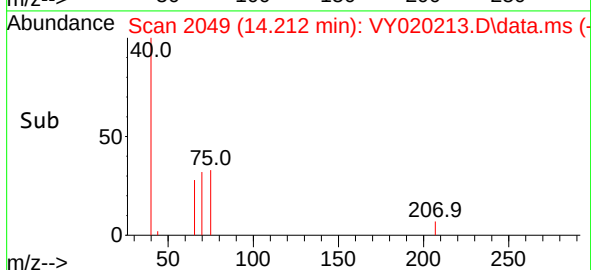
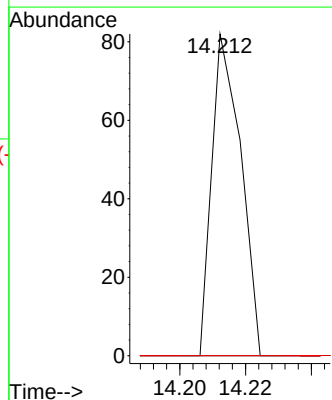
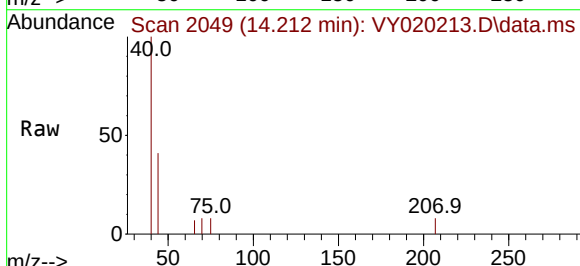
RT: 14.212 min Scan# 2049

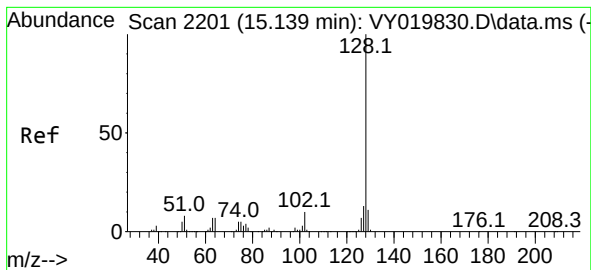
Delta R.T. -0.061 min

Lab File: VY020213.D

Acq: 07 Nov 2024 17:41

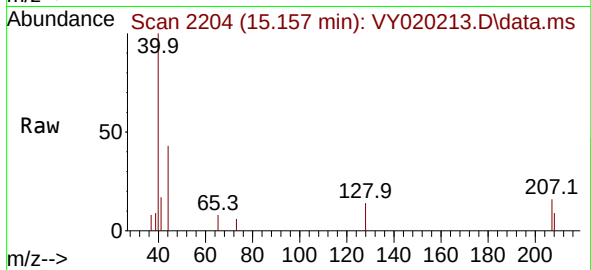
Tgt Ion:	75	Resp:	50
Ion	Ratio	Lower	Upper
75	100		
155	0.0	48.6	145.8#
157	0.0	62.7	188.2#





#95
Naphthalene
Concen: 4.894 ug/l
RT: 15.157 min Scan# 21
Delta R.T. 0.013 min
Lab File: VY020213.D
Acq: 07 Nov 2024 17:41

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128 Resp: 68
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 13.0#

