

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
 Data File : VY019977.D
 Acq On : 22 Oct 2024 13:36
 Operator : SY/MD
 Sample : P4472-02
 Misc : 4.26g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 23 01:28:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

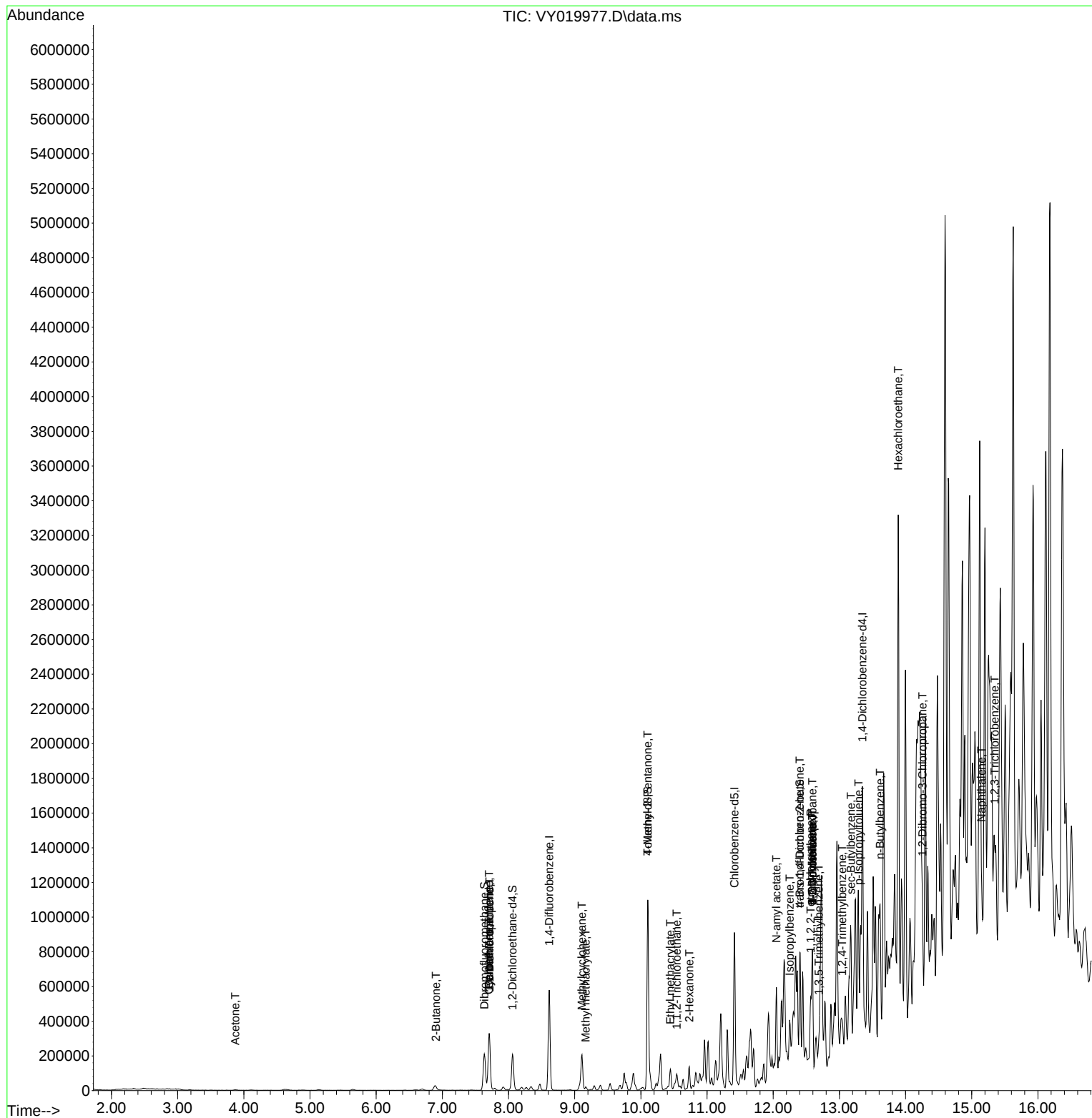
Internal Standards						
1) Pentafluorobenzene	7.707	168	213399	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	454794	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	421916	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	173993	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	156917	59.719	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 119.440%	
35) Dibromofluoromethane	7.634	113	148219	49.388	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 98.780%	
50) Toluene-d8	10.103	98	574989	51.881	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.760%	
62) 4-Bromofluorobenzene	12.402	95	193371	48.288	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 96.580%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.854	59	1285	Below Cal	#	94
16) Acetone	3.873	43	5829	8.522	ug/l	# 79
25) 2-Butanone	6.902	43	3508	3.832	ug/l	# 64
31) Cyclohexane	7.701	56	16696	3.803	ug/l	# 77
36) 1,1-Dichloropropene	7.713	75	21845	5.052	ug/l	# 48
38) Carbon Tetrachloride	7.707	117	25395	5.479	ug/l	# 17
39) Methylcyclohexane	9.109	83	76196	13.987	ug/l	# 83
48) Methyl methacrylate	9.164	41	3866	1.911	ug/l	# 48
51) 4-Methyl-2-Pentanone	10.103	43	11469	4.890	ug/l	# 89
55) 1,1,2-Trichloroethane	10.542	97	28897	12.257	ug/l	# 21
56) Ethyl methacrylate	10.445	69	11145	3.295	ug/l	# 1
59) 2-Hexanone	10.731	43	50043	29.876	ug/l	# 24
73) Isopropylbenzene	12.249	105	140358	9.591	ug/l	# 99
74) N-amyl acetate	12.048	43	106497	27.474	ug/l	# 50
75) 1,1,2,2-Tetrachloroethane	12.566	83	30386	11.685	ug/l	# 46
76) 1,2,3-Trichloropropane	12.591	75	3969	1.164	ug/l	# 100
78) n-propylbenzene	12.591	91	480430	27.168	ug/l	# 96
79) 2-Chlorotoluene	12.591	91	480430	47.388	ug/l	# 39
80) 1,3,5-Trimethylbenzene	12.688	105	53612	4.536	ug/l	# 70
81) trans-1,4-Dichloro-2-b...	12.402	75	109655	129.854	ug/l	# 16
82) 4-Chlorotoluene	12.591	91	480430	46.346	ug/l	# 39
84) 1,2,4-Trimethylbenzene	13.042	105	52341	4.467	ug/l	# 97
85) sec-Butylbenzene	13.176	105	344707	21.790	ug/l	# 90
86) p-Isopropyltoluene	13.292	119	67564	5.260	ug/l	# 91
89) n-Butylbenzene	13.615	91	409744	32.666	ug/l	# 85
90) Hexachloroethane	13.889	117	115861	46.319	ug/l	# 12
92) 1,2-Dibromo-3-Chloropr...	14.255	75	1860	4.482	ug/l	# 1
95) Naphthalene	15.145	128	71333	12.240	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.346	180	4097	1.568	ug/l	# 1

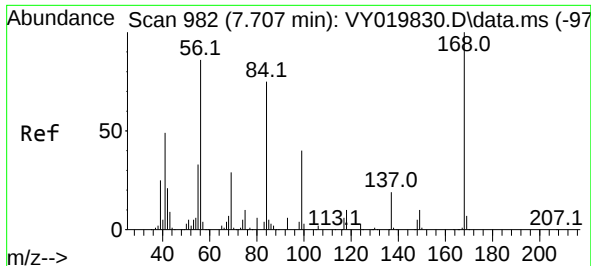
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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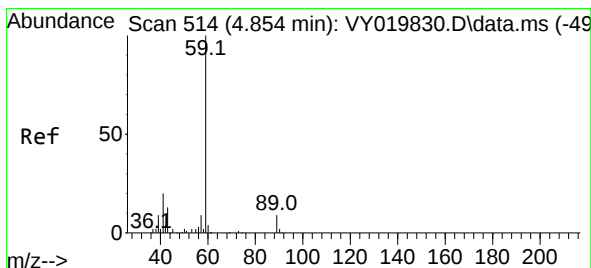
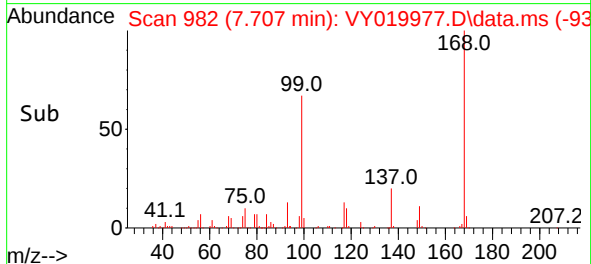
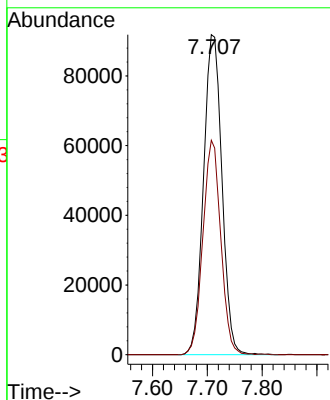
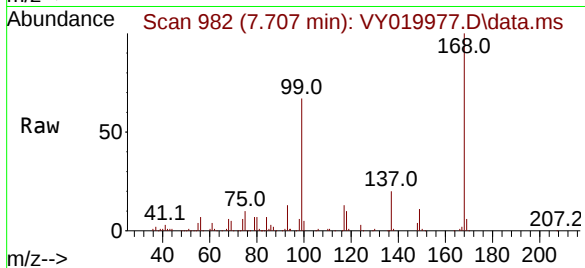




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

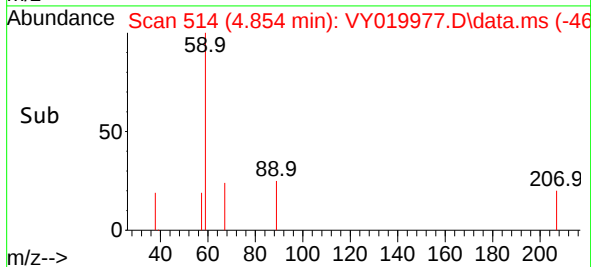
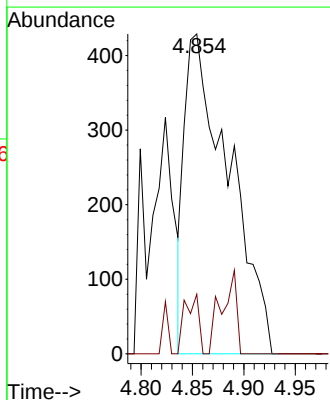
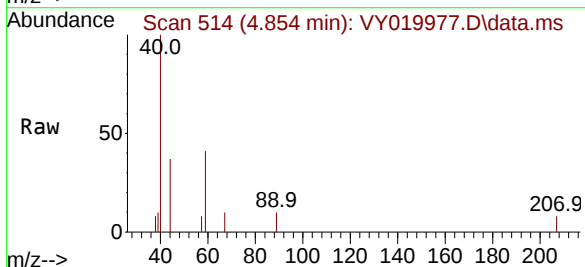
Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:168 Resp: 213399
Ion Ratio Lower Upper
168 100
99 67.0 39.1 58.7#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.854 min Scan# 514
Delta R.T. -0.006 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

Tgt Ion: 59 Resp: 1285
Ion Ratio Lower Upper
59 100
57 5.8 3.0 4.6#

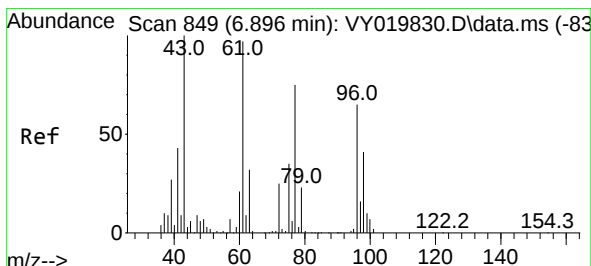
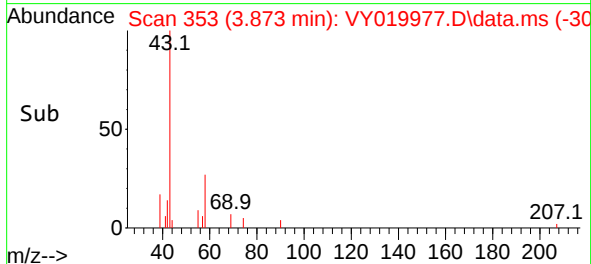
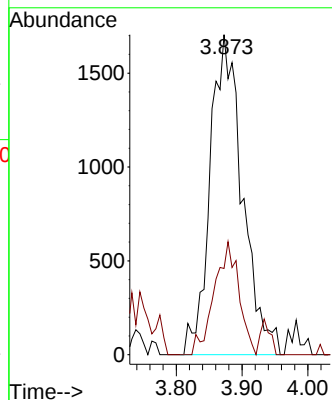
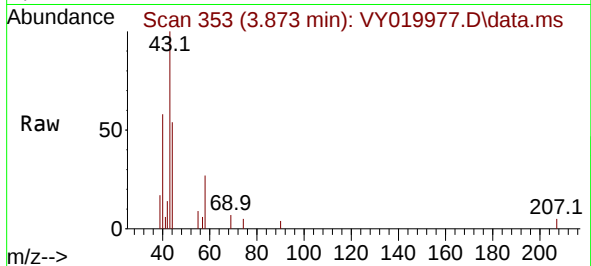




#16
Acetone
Concen: 8.522 ug/l
RT: 3.873 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

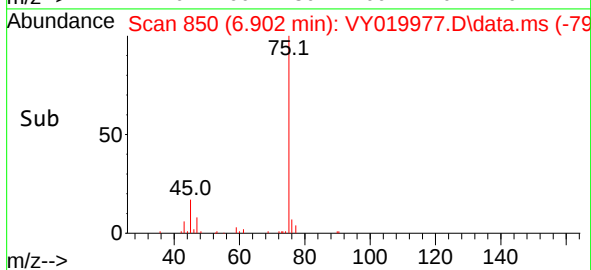
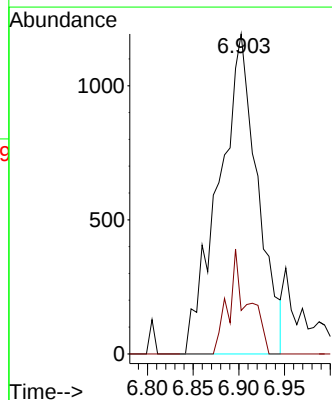
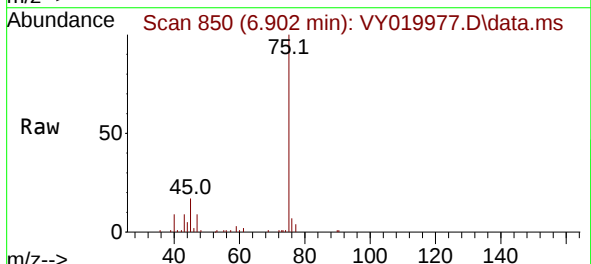
Instrument :
MSVOA_Y
ClientSampleId :

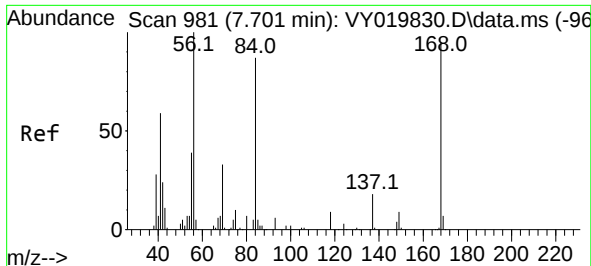
Tgt Ion: 43 Resp: 5829
Ion Ratio Lower Upper
43 100
58 27.0 31.7 47.5#



#25
2-Butanone
Concen: 3.832 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.013 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

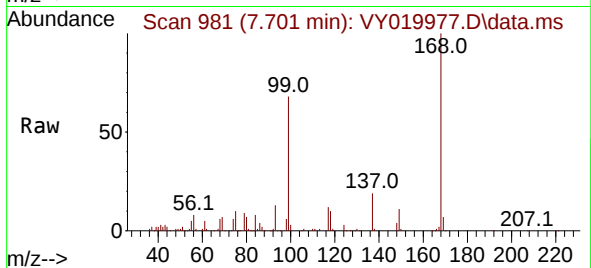
Tgt Ion: 43 Resp: 3508
Ion Ratio Lower Upper
43 100
72 13.6 27.3 40.9#



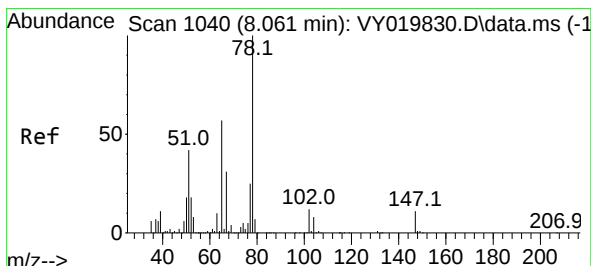
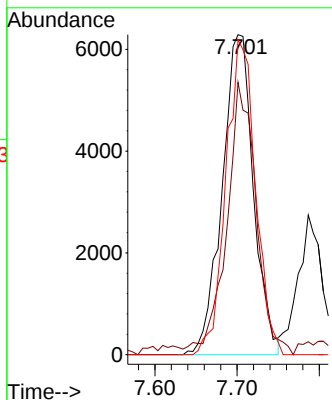
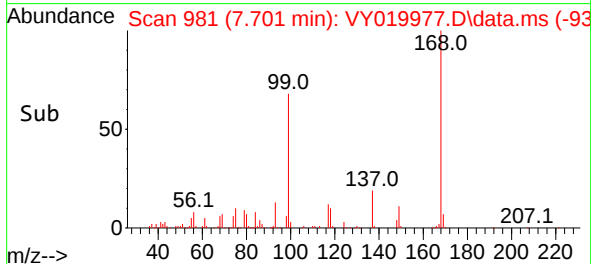


#31
Cyclohexane
Concen: 3.803 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

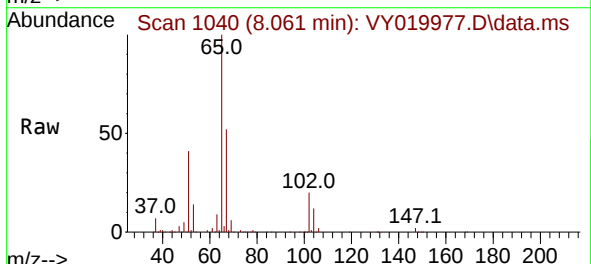
Instrument :
MSVOA_Y
ClientSampleId :



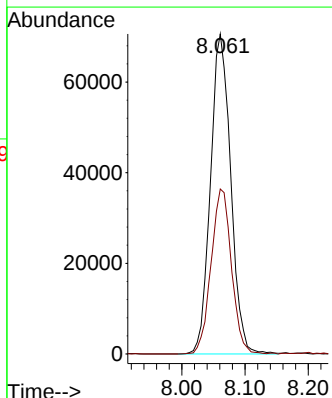
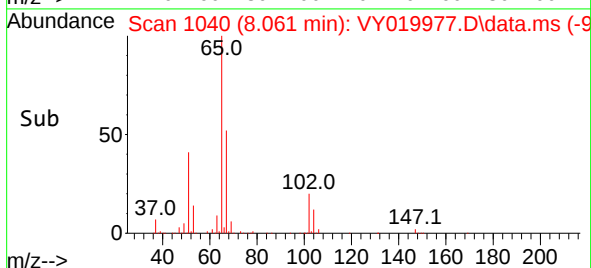
Tgt Ion: 56 Resp: 16696
Ion Ratio Lower Upper
56 100
69 82.8 28.7 43.1#
84 98.5 77.7 116.5

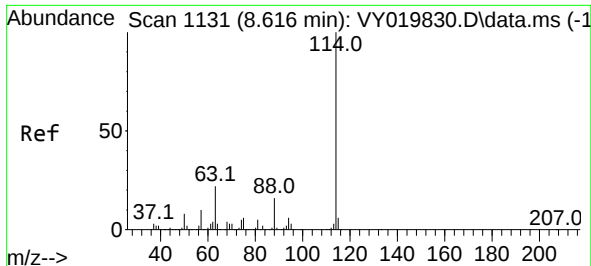


#33
1,2-Dichloroethane-d4
Concen: 59.719 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36



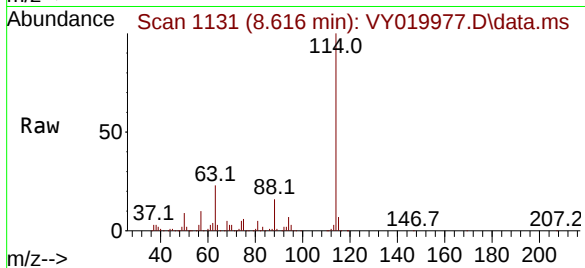
Tgt Ion: 65 Resp: 156917
Ion Ratio Lower Upper
65 100
67 51.8 0.0 109.6



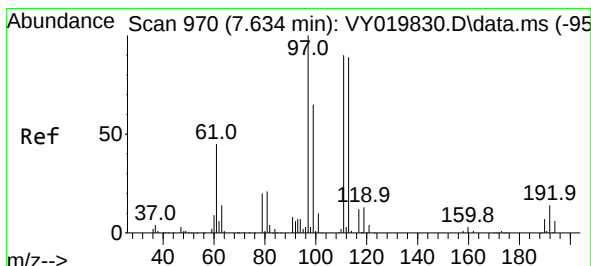
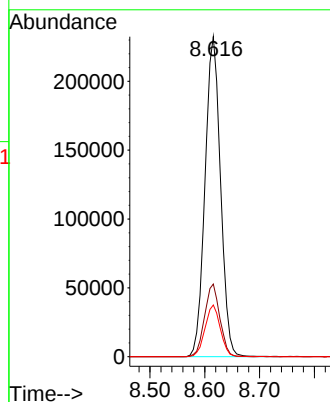
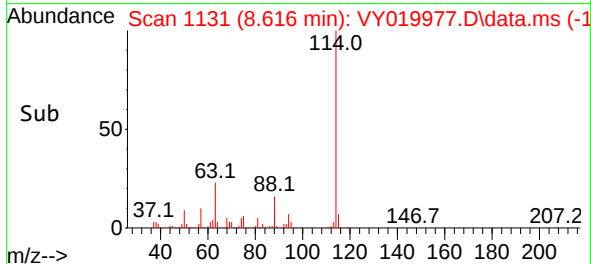


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

Instrument :
MSVOA_Y
ClientSampleId :

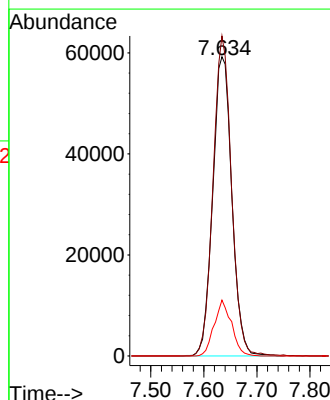
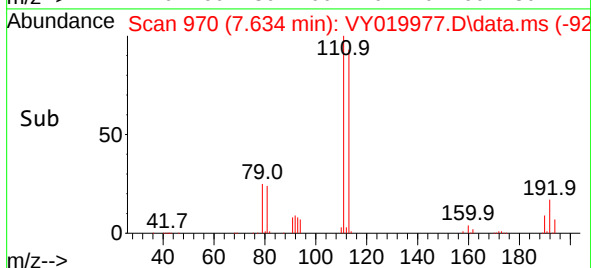
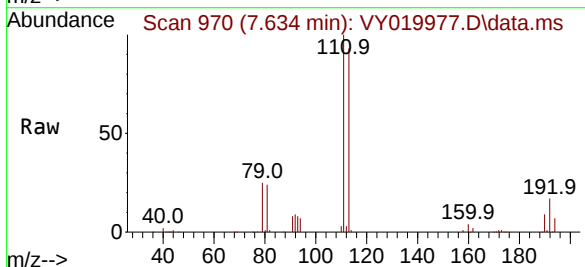


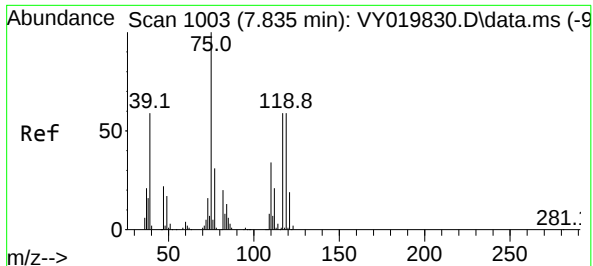
Tgt Ion:114 Resp: 454794
Ion Ratio Lower Upper
114 100
63 22.7 0.0 35.0
88 16.1 0.0 27.2



#35
Dibromofluoromethane
Concen: 49.388 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

Tgt Ion:113 Resp: 148219
Ion Ratio Lower Upper
113 100
111 103.0 82.2 123.4
192 17.0 15.9 23.9





#36

1,1-Dichloropropene

Concen: 5.052 ug/l

RT: 7.713 min Scan# 9

Delta R.T. -0.122 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

Instrument :

MSVOA_Y

ClientSampleId :

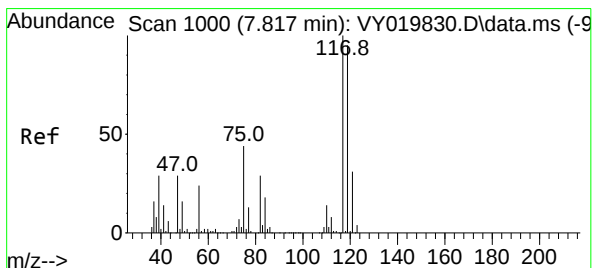
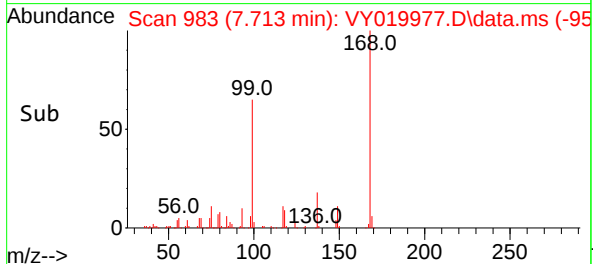
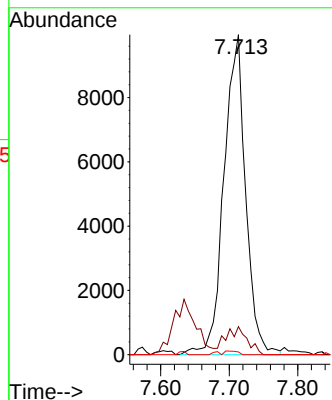
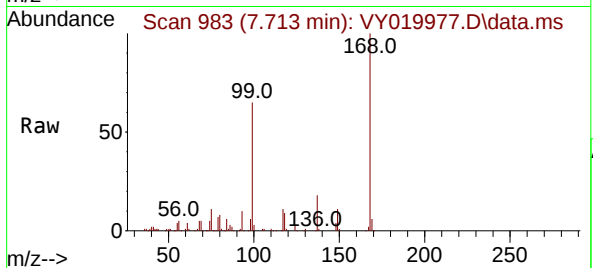
Tgt Ion: 75 Resp: 21845

Ion Ratio Lower Upper

75 100

110 8.8 19.0 57.0#

77 0.7 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 5.479 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.109 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

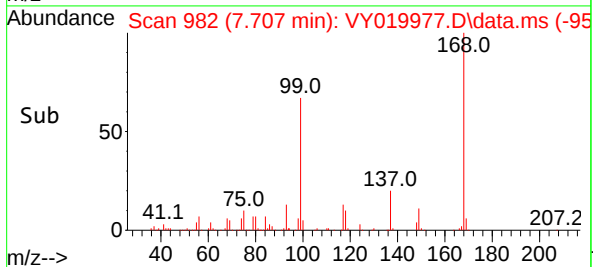
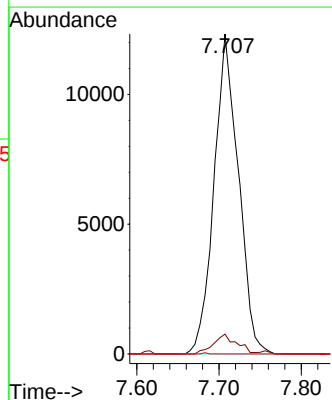
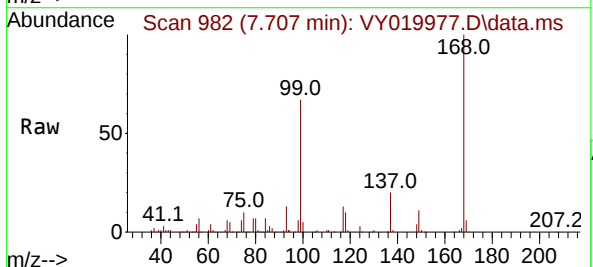
Tgt Ion: 117 Resp: 25395

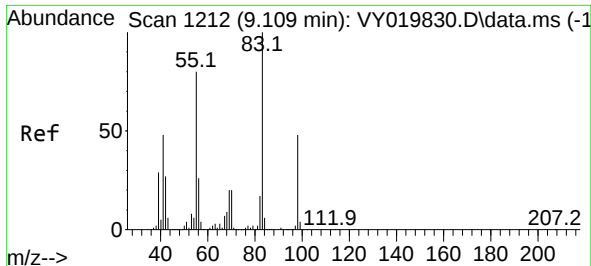
Ion Ratio Lower Upper

117 100

119 6.2 75.8 113.6#

121 0.0 24.0 36.0#





#39

Methylcyclohexane

Concen: 13.987 ug/l

RT: 9.109 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

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ClientSampleId :

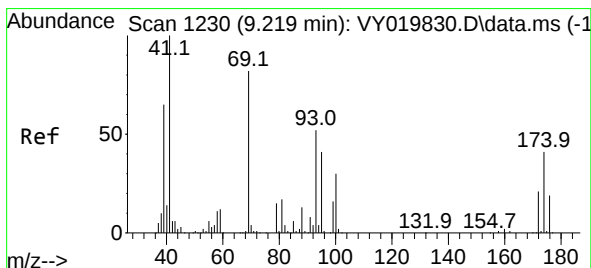
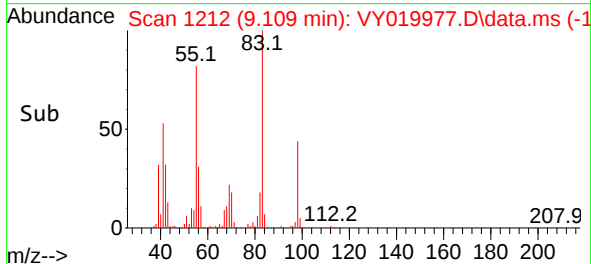
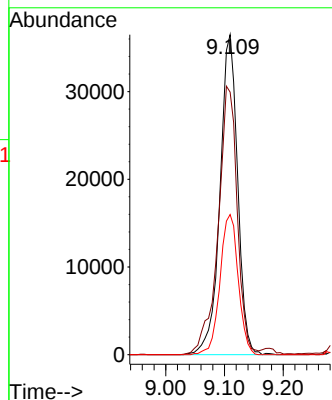
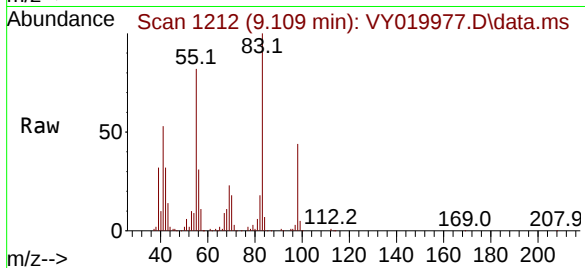
Tgt Ion: 83 Resp: 76196

Ion Ratio Lower Upper

83 100

55 82.0 51.5 77.3#

98 43.8 40.5 60.7



#48

Methyl methacrylate

Concen: 1.911 ug/l

RT: 9.164 min Scan# 1221

Delta R.T. -0.055 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

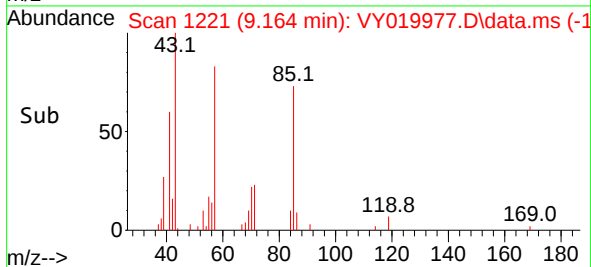
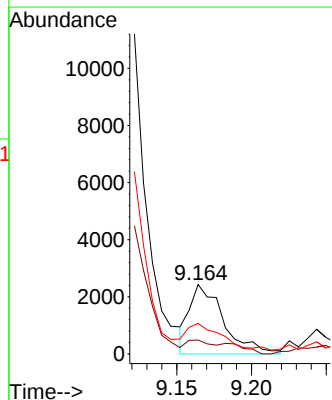
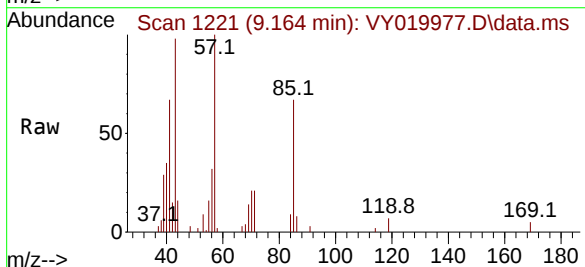
Tgt Ion: 41 Resp: 3866

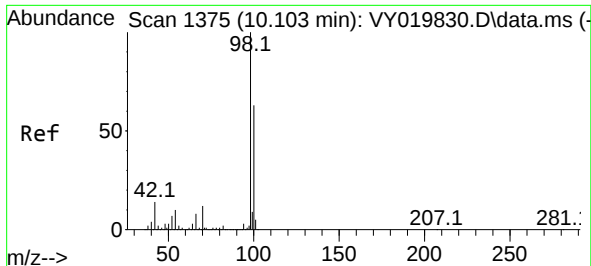
Ion Ratio Lower Upper

41 100

69 25.7 84.1 126.1#

39 52.8 43.6 65.4

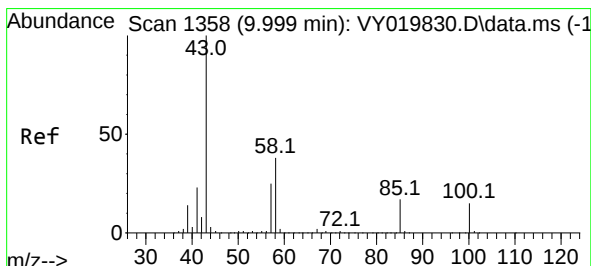
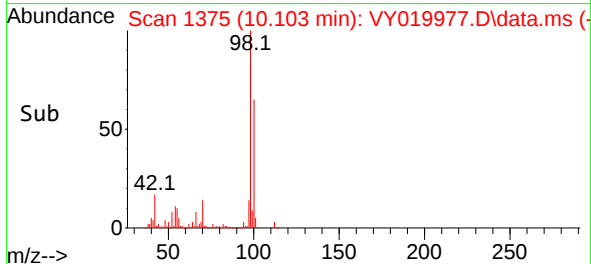
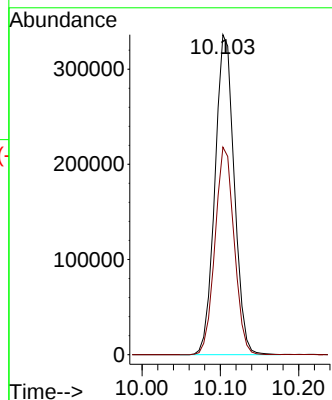
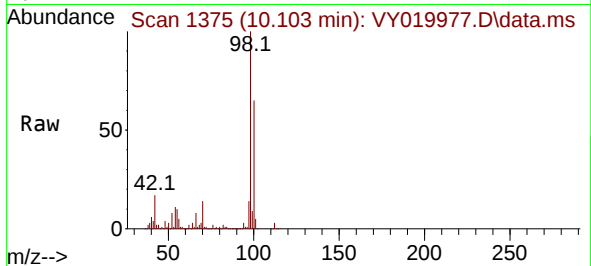




#50
Toluene-d8
Concen: 51.881 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

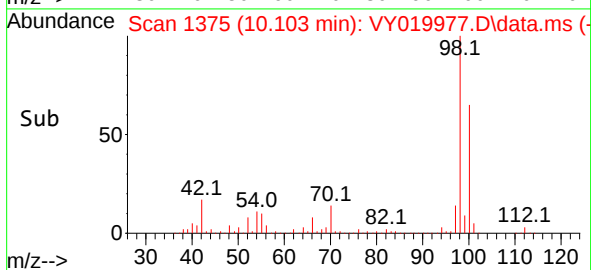
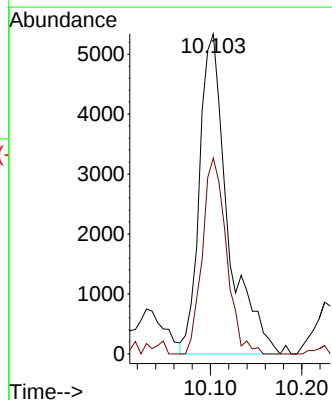
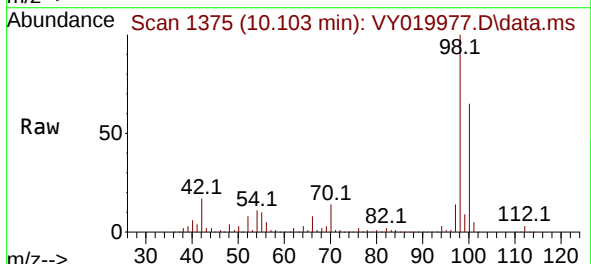
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MSVOA_Y
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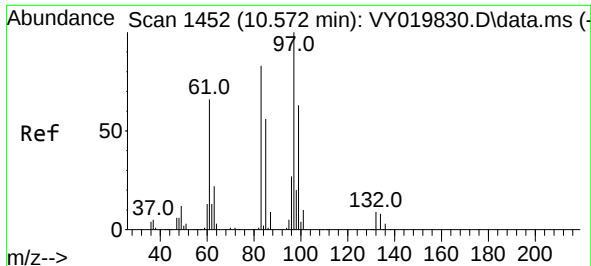
Tgt Ion: 98 Resp: 574989
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.890 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.104 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

Tgt Ion: 43 Resp: 11469
Ion Ratio Lower Upper
43 100
58 51.9 35.7 53.5

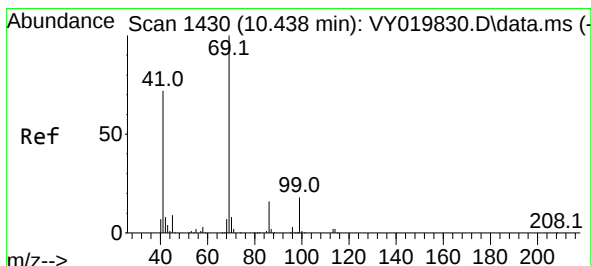
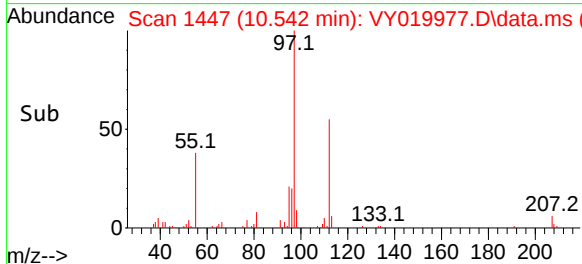
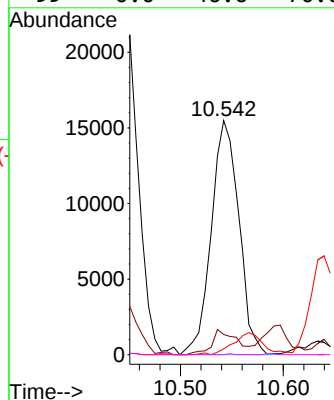
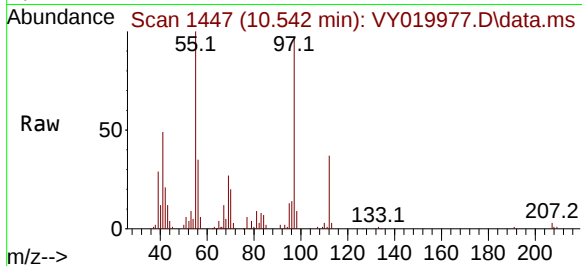




#55
1,1,2-Trichloroethane
Concen: 12.257 ug/l
RT: 10.542 min Scan# 1452
Delta R.T. -0.030 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

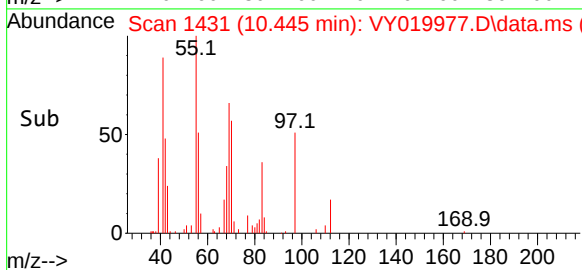
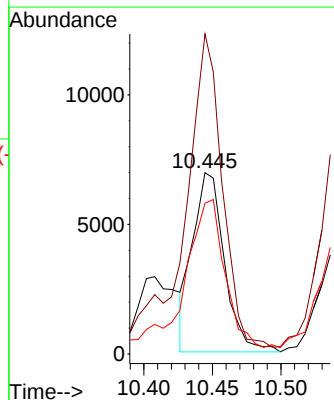
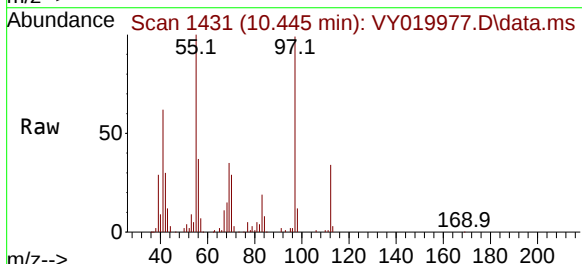
Instrument :
MSVOA_Y
ClientSampleId :

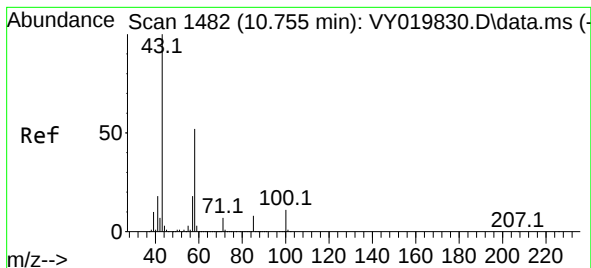
Tgt Ion: 97 Resp: 28897
Ion Ratio Lower Upper
97 100
83 8.6 67.5 101.3#
85 2.5 42.9 64.3#
99 0.0 46.6 70.0#



#56
Ethyl methacrylate
Concen: 3.295 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

Tgt Ion: 69 Resp: 11145
Ion Ratio Lower Upper
69 100
41 202.1 42.3 63.5#
39 104.8 22.9 34.3#

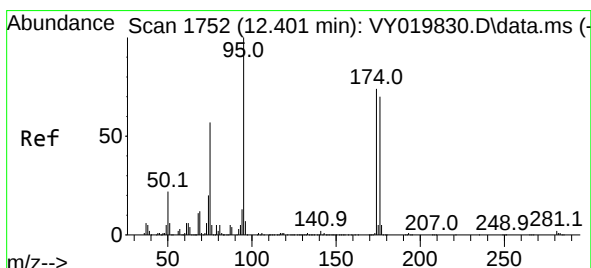
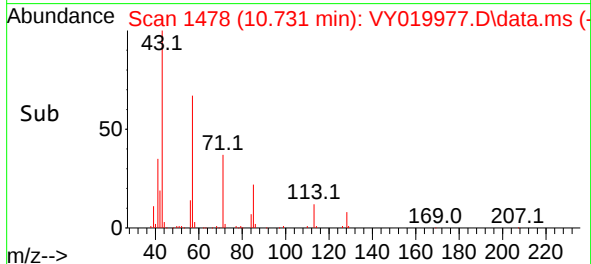
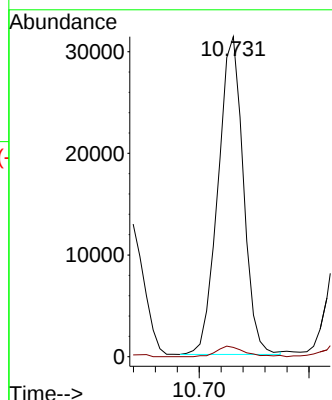
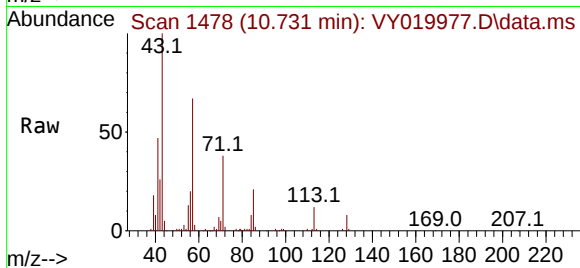




#59
2-Hexanone
Concen: 29.876 ug/l
RT: 10.731 min Scan# 1482
Delta R.T. -0.030 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

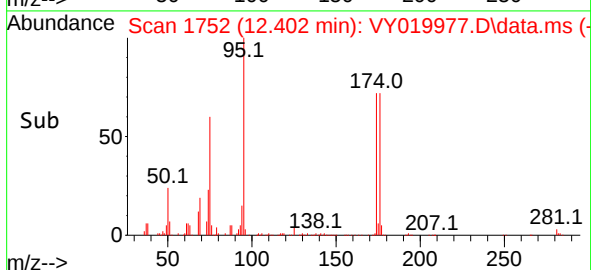
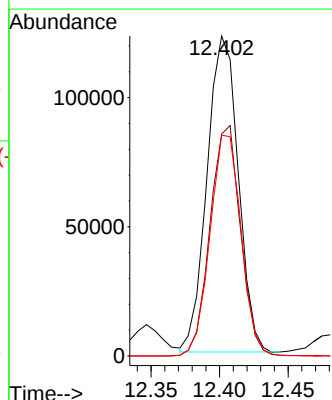
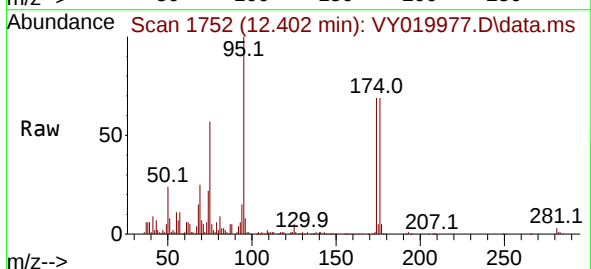
Instrument :
MSVOA_Y
ClientSampleId :

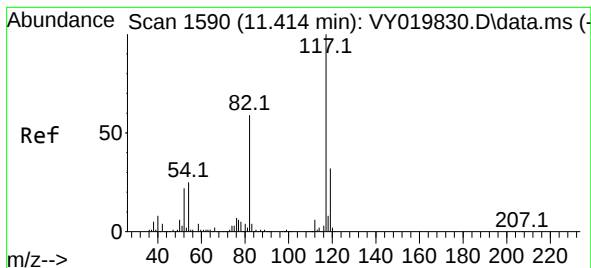
Tgt Ion: 43 Resp: 50043
Ion Ratio Lower Upper
43 100
58 3.7 31.4 94.0#



#62
4-Bromofluorobenzene
Concen: 48.288 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

Tgt Ion: 95 Resp: 193371
Ion Ratio Lower Upper
95 100
174 71.4 0.0 175.6
176 69.7 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

Instrument :

MSVOA_Y

ClientSampleId :

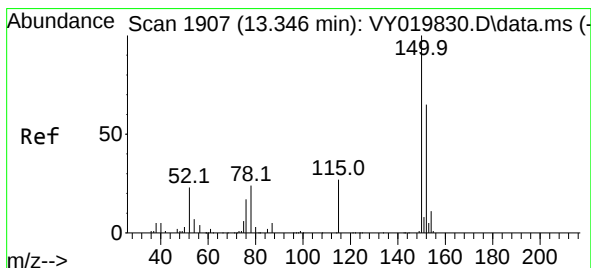
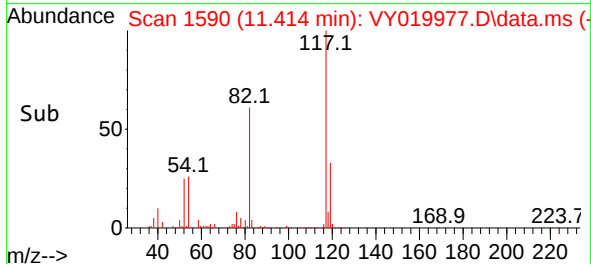
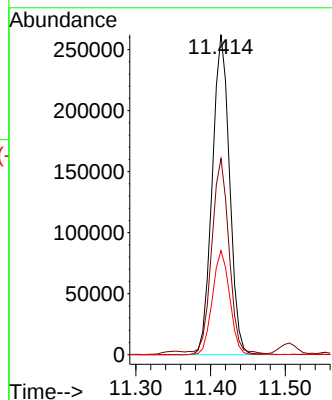
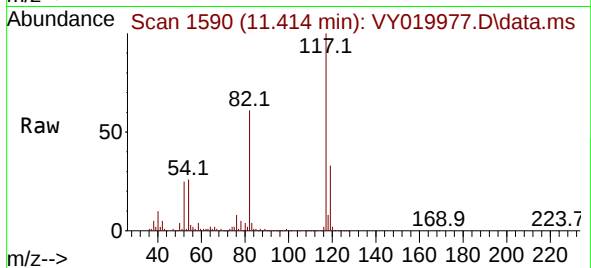
Tgt Ion:117 Resp: 421916

Ion Ratio Lower Upper

117 100

82 60.3 42.4 63.6

119 32.5 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

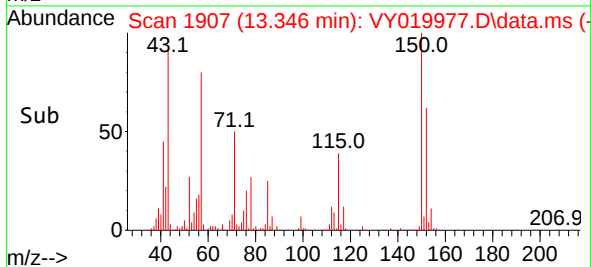
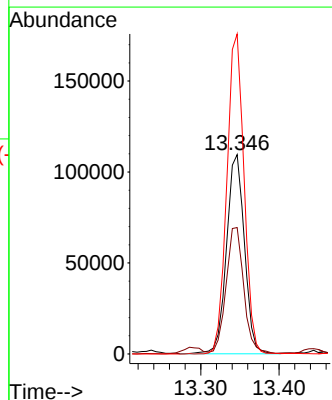
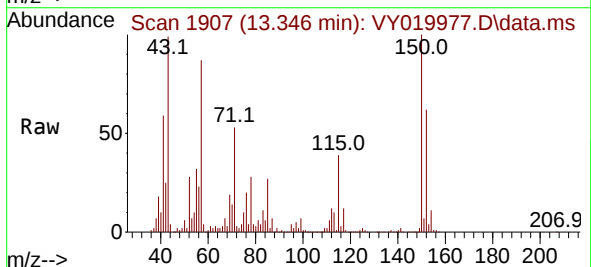
Tgt Ion:152 Resp: 173993

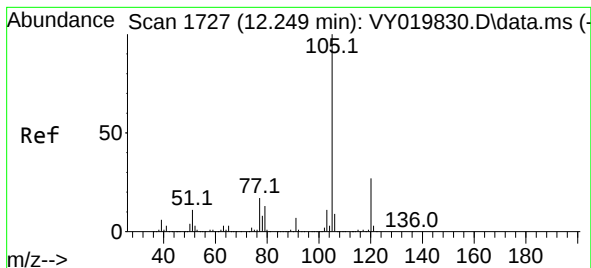
Ion Ratio Lower Upper

152 100

115 61.7 28.2 84.7

150 154.1 0.0 345.6





#73

Isopropylbenzene

Concen: 9.591 ug/l

RT: 12.249 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

Instrument :

MSVOA_Y

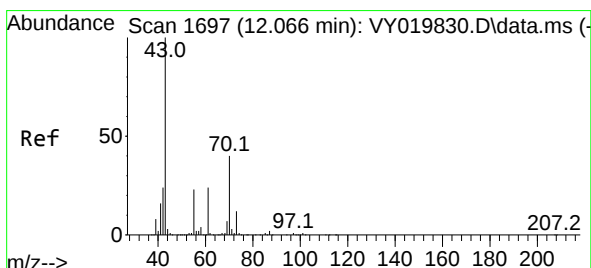
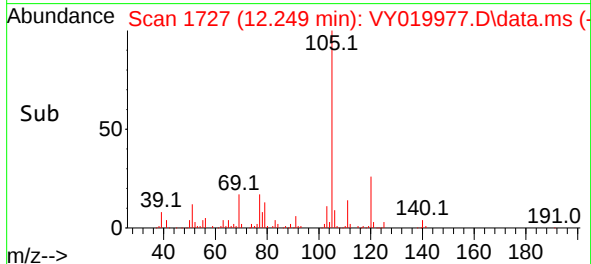
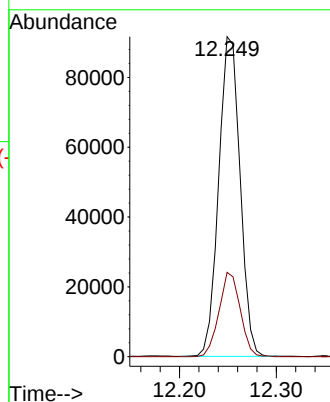
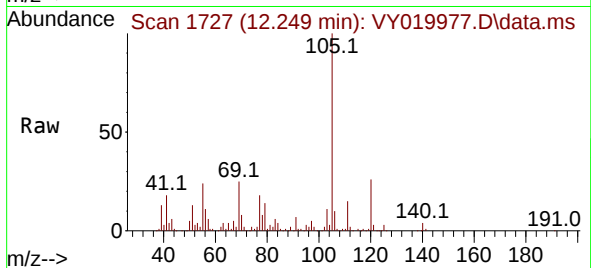
ClientSampleId :

Tgt Ion:105 Resp: 140358

Ion Ratio Lower Upper

105 100

120 26.2 13.4 40.1



#74

N-ethyl acetate

Concen: 27.474 ug/l

RT: 12.048 min Scan# 1694

Delta R.T. -0.024 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

Tgt Ion: 43 Resp: 106497

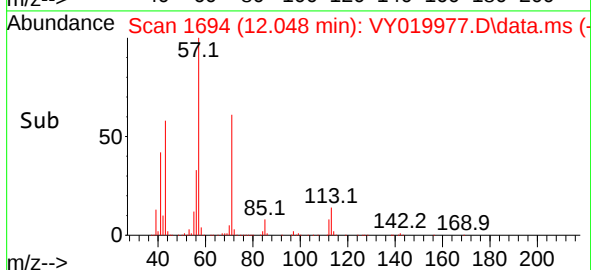
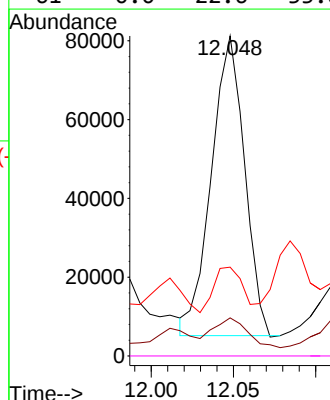
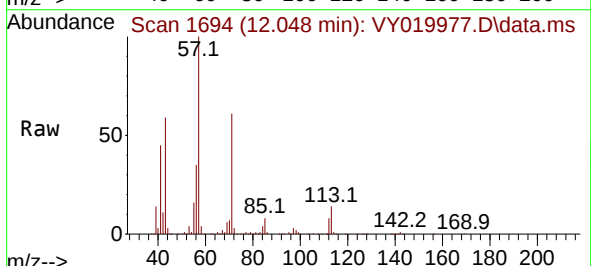
Ion Ratio Lower Upper

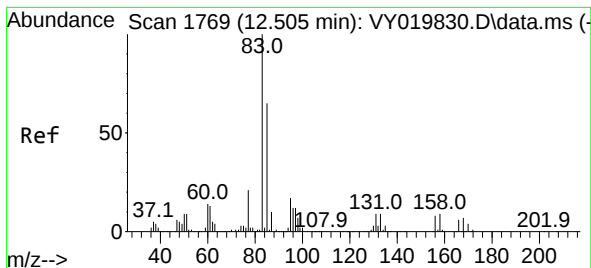
43 100

70 10.0 41.4 62.2#

55 12.8 23.3 34.9#

61 0.0 22.6 33.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 11.685 ug/l

RT: 12.566 min Scan# 1779

Delta R.T. 0.055 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

Instrument :

MSVOA_Y

ClientSampleId :

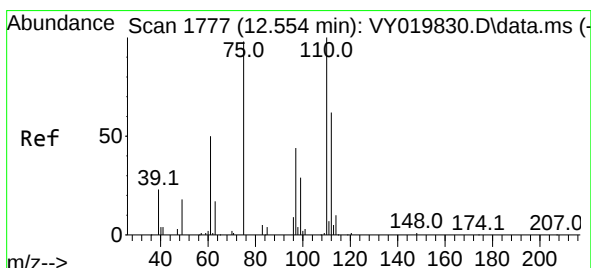
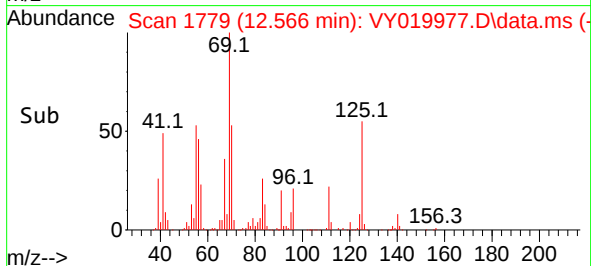
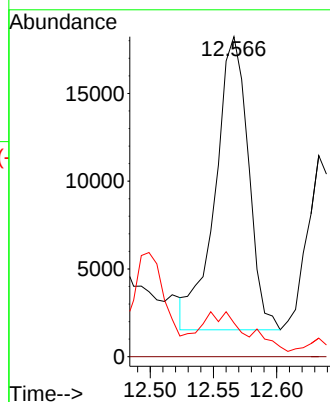
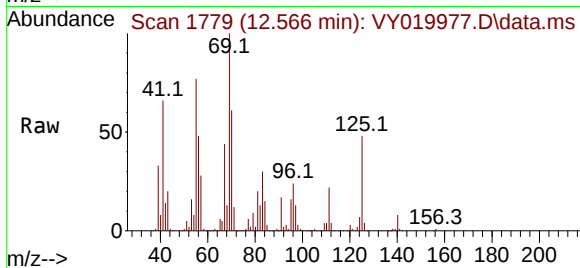
Tgt Ion: 83 Resp: 30386

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 18.3 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 1.164 ug/l

RT: 12.591 min Scan# 1783

Delta R.T. 0.031 min

Lab File: VY019977.D

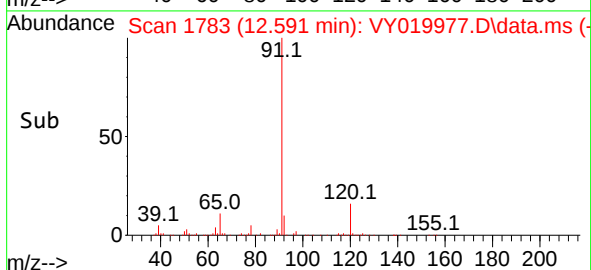
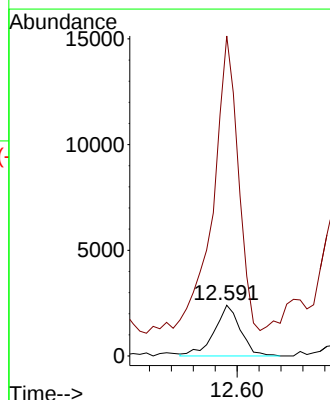
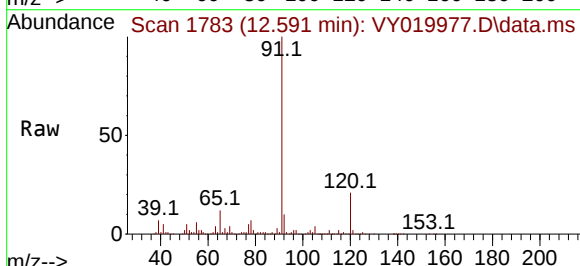
Acq: 22 Oct 2024 13:36

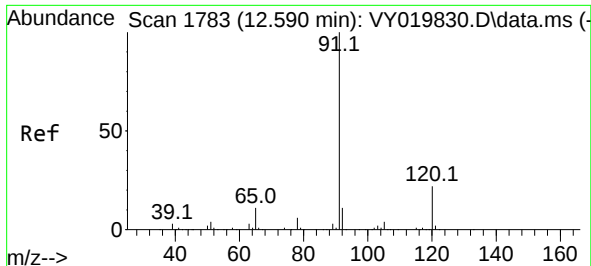
Tgt Ion: 75 Resp: 3969

Ion Ratio Lower Upper

75 100

77 581.8 0.0 0.0#

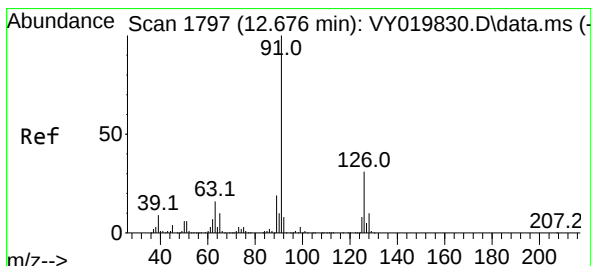
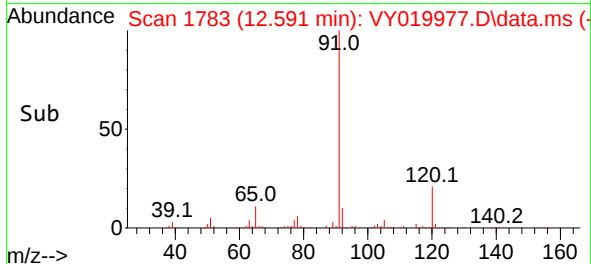
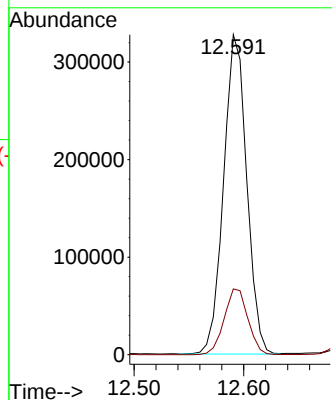
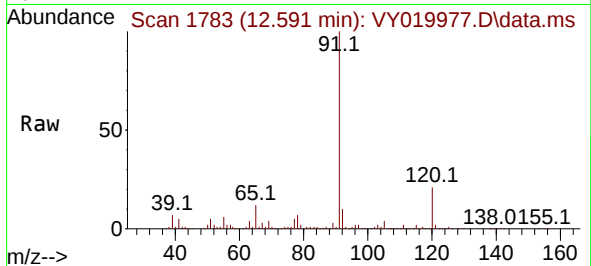




#78
n-propylbenzene
Concen: 27.168 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

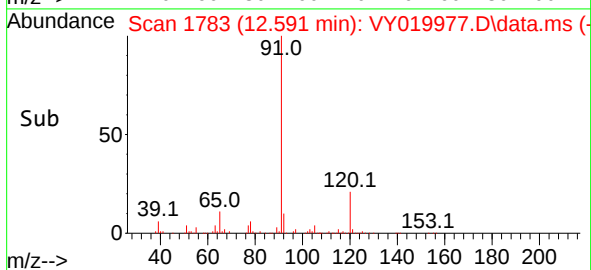
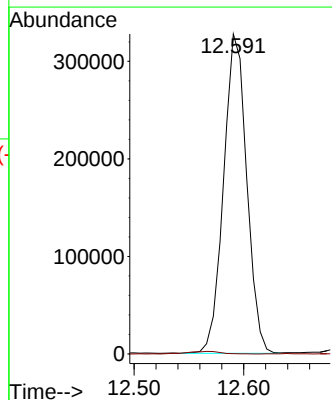
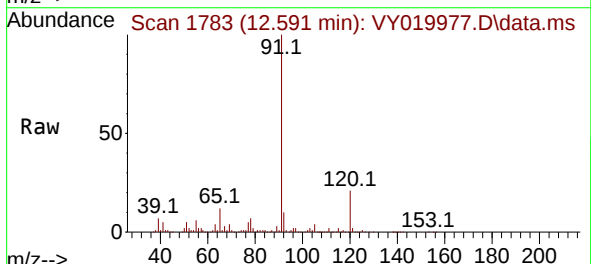
Instrument :
MSVOA_Y
ClientSampleId :

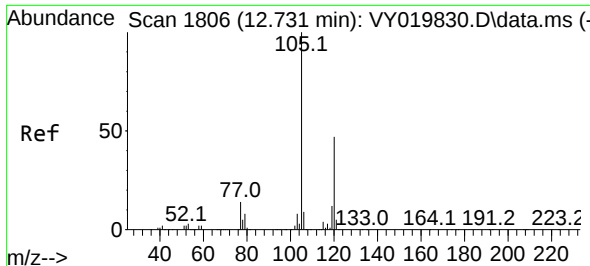
Tgt Ion: 91 Resp: 480430
Ion Ratio Lower Upper
91 100
120 21.1 11.5 34.4



#79
2-Chlorotoluene
Concen: 47.388 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.091 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

Tgt Ion: 91 Resp: 480430
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.5#

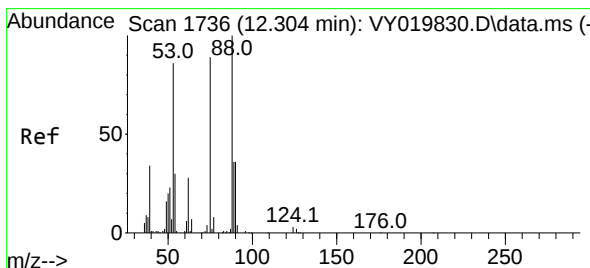
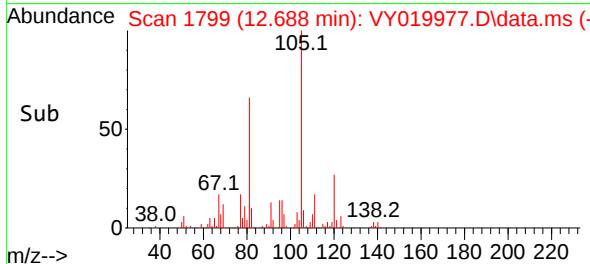
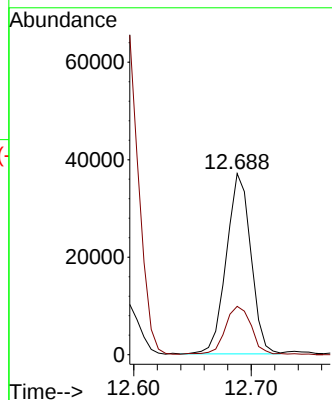
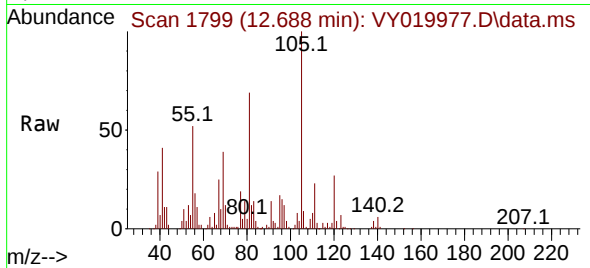




#80
1,3,5-Trimethylbenzene
Concen: 4.536 ug/l
RT: 12.688 min Scan# 1752
Delta R.T. -0.048 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

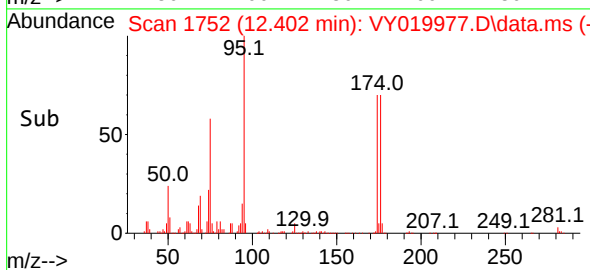
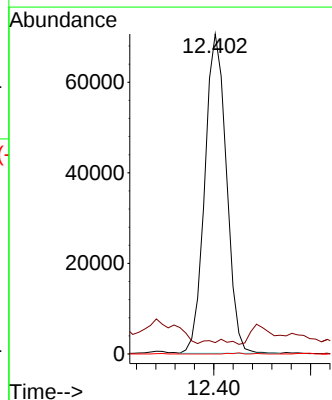
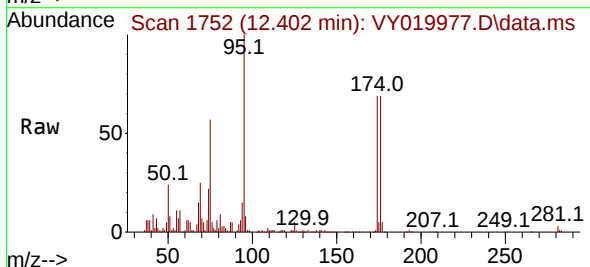
Instrument :
MSVOA_Y
ClientSampleId :

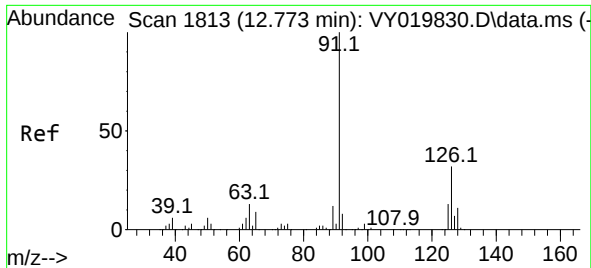
Tgt Ion:105 Resp: 53612
Ion Ratio Lower Upper
105 100
120 29.3 25.1 75.2



#81
trans-1,4-Dichloro-2-butene
Concen: 129.854 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.098 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

Tgt Ion: 75 Resp: 109655
Ion Ratio Lower Upper
75 100
53 0.5 66.8 100.2#
89 0.0 35.8 53.6#

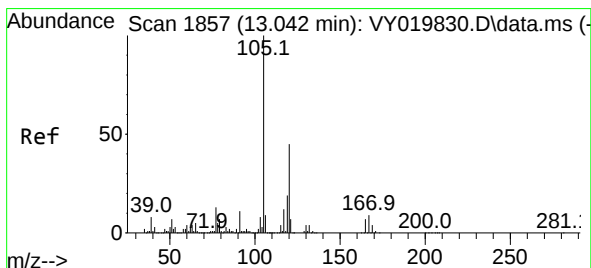
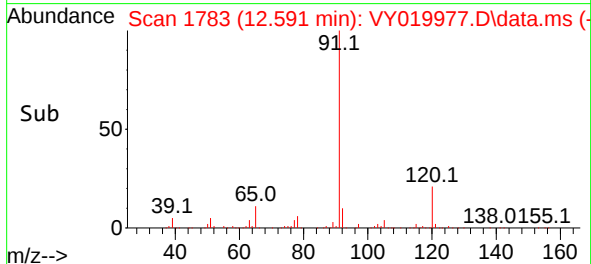
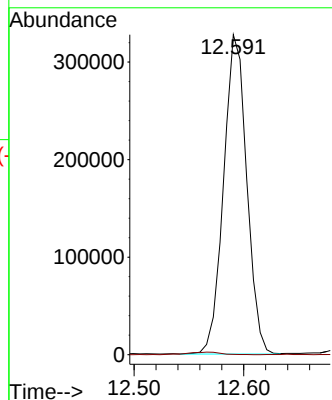
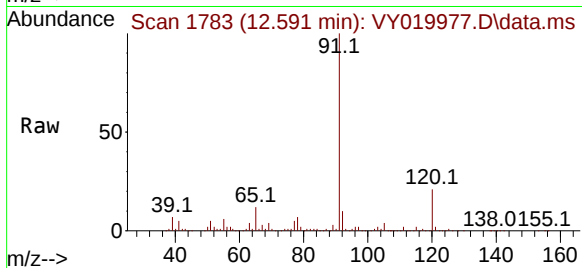




#82
4-Chlorotoluene
Concen: 46.346 ug/l
RT: 12.591 min Scan# 11
Delta R.T. -0.189 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

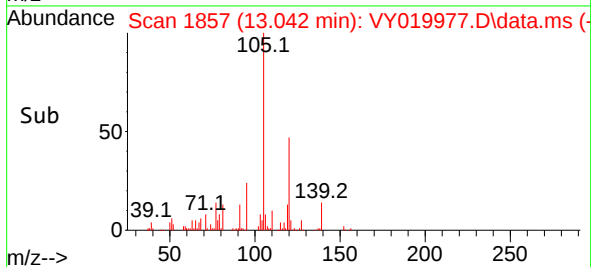
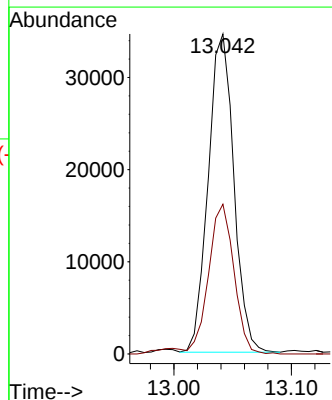
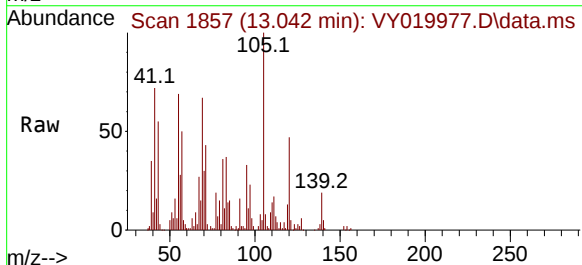
Instrument :
MSVOA_Y
ClientSampleId :

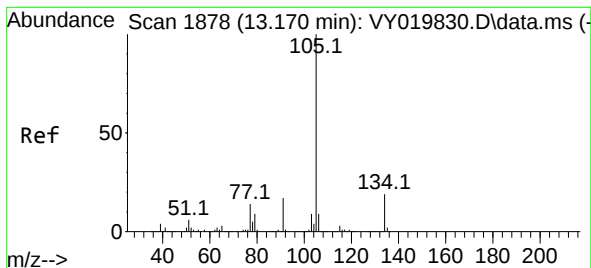
Tgt Ion: 91 Resp: 480430
Ion Ratio Lower Upper
91 100
126 0.0 17.6 52.9#



#84
1,2,4-Trimethylbenzene
Concen: 4.467 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

Tgt Ion: 105 Resp: 52341
Ion Ratio Lower Upper
105 100
120 48.4 23.2 69.6





#85

sec-Butylbenzene

Concen: 21.790 ug/l

RT: 13.176 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

Instrument :

MSVOA_Y

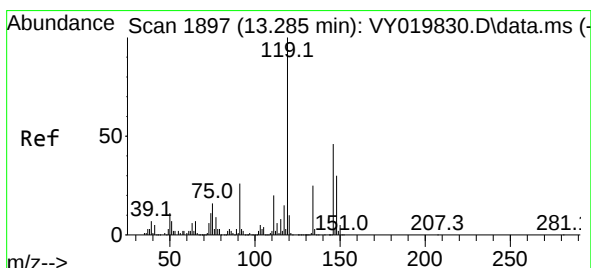
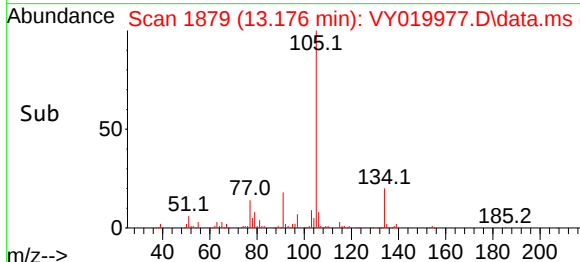
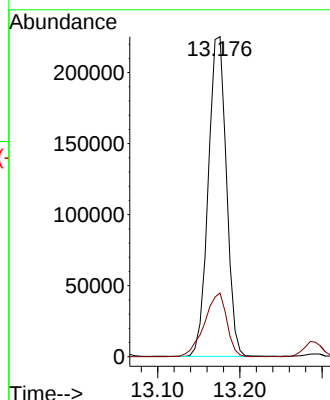
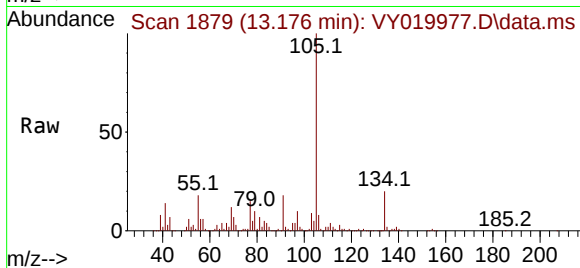
ClientSampleId :

Tgt Ion:105 Resp: 344707

Ion Ratio Lower Upper

105 100

134 24.5 10.1 30.1



#86

p-Isopropyltoluene

Concen: 5.260 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

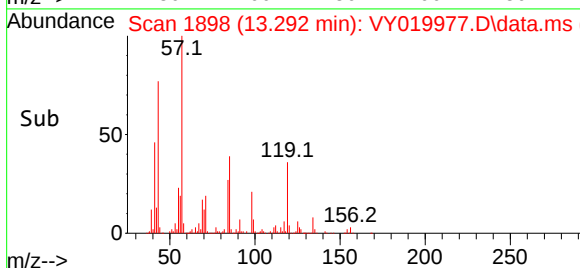
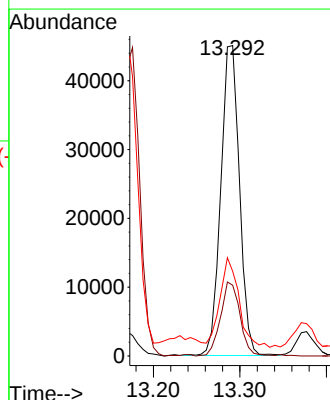
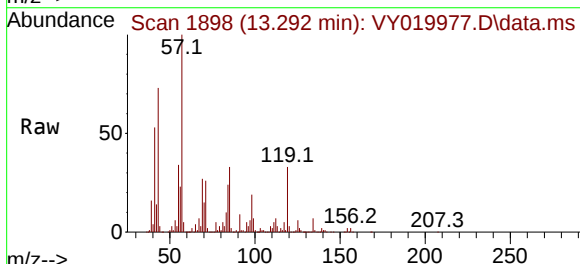
Tgt Ion:119 Resp: 67564

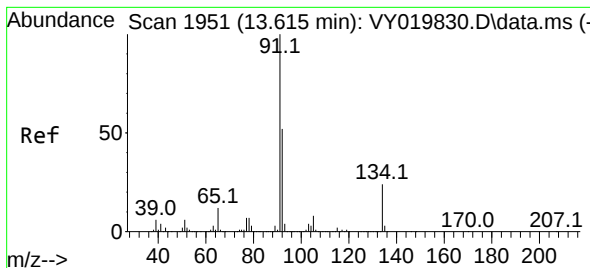
Ion Ratio Lower Upper

119 100

134 24.8 13.1 39.3

91 29.3 10.7 32.1





#89

n-Butylbenzene

Concen: 32.666 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. -0.006 min

Lab File: VY019977.D

Acq: 22 Oct 2024 13:36

Instrument :

MSVOA_Y

ClientSampleId :

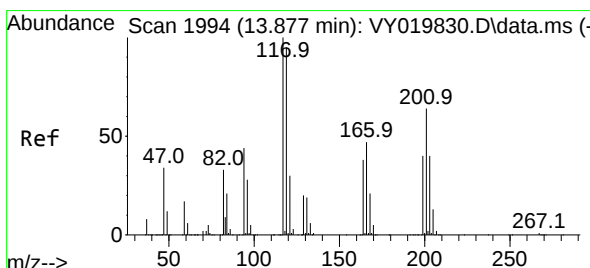
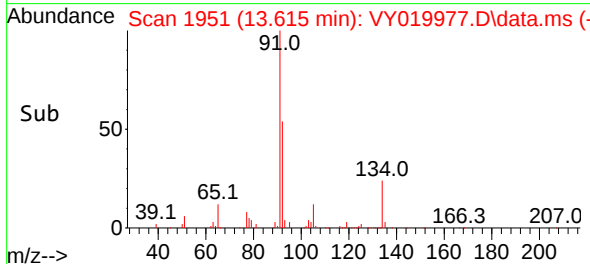
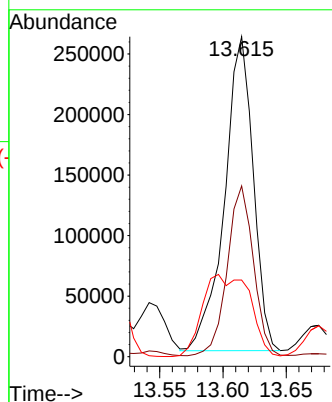
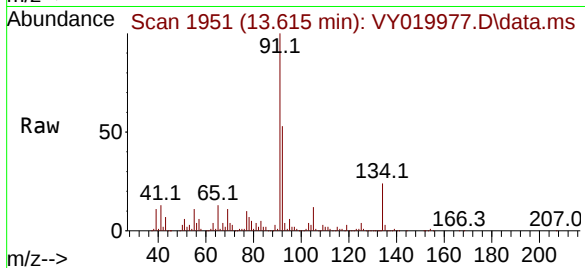
Tgt Ion: 91 Resp: 409744

Ion Ratio Lower Upper

91 100

92 49.2 26.6 79.7

134 43.1 12.9 38.7#



#90

Hexachloroethane

Concen: 46.319 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.006 min

Lab File: VY019977.D

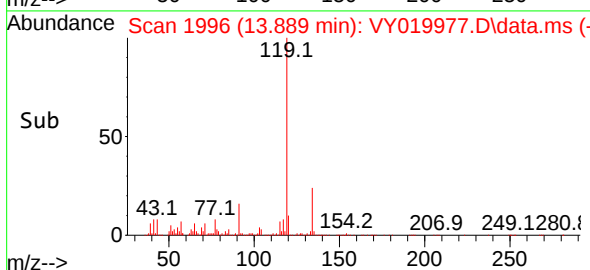
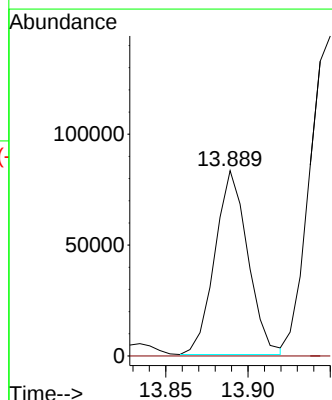
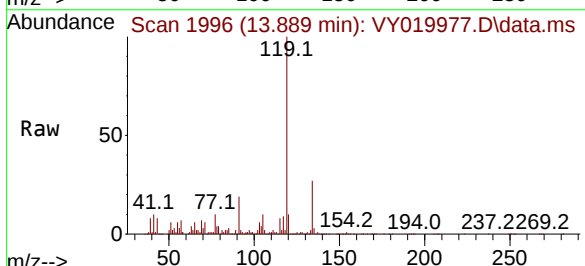
Acq: 22 Oct 2024 13:36

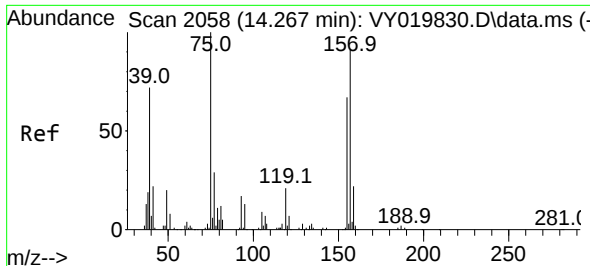
Tgt Ion: 117 Resp: 115861

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#

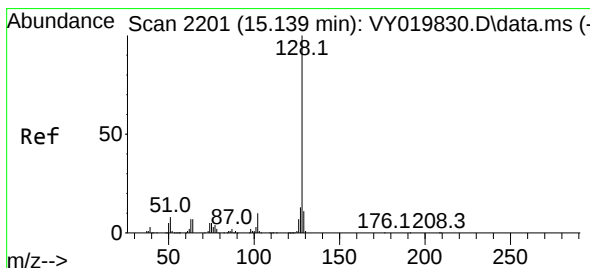
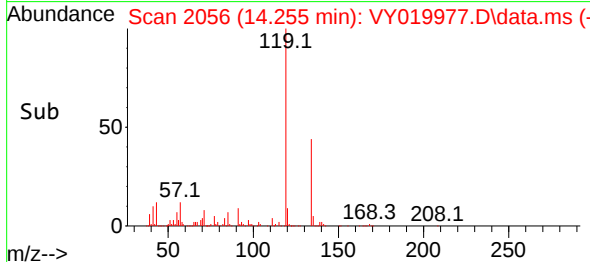
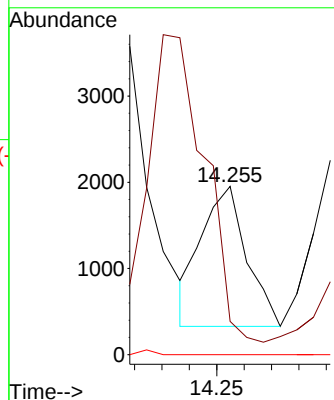
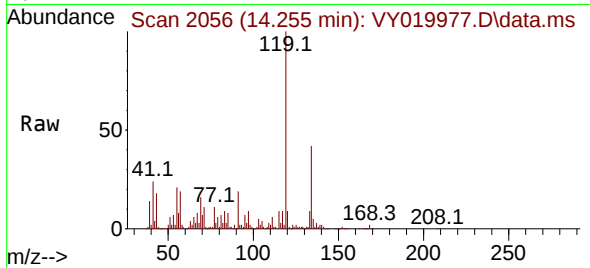




#92
1,2-Dibromo-3-Chloropropane
Concen: 4.482 ug/l
RT: 14.255 min Scan# 2058
Delta R.T. -0.018 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

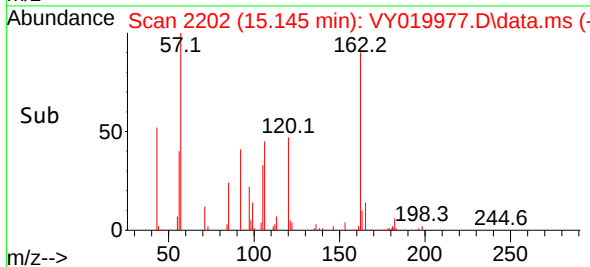
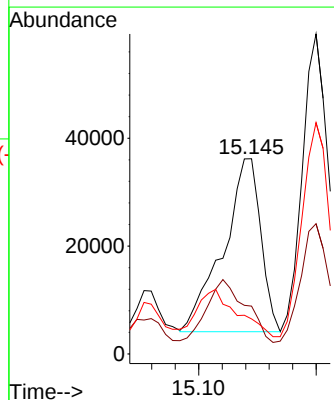
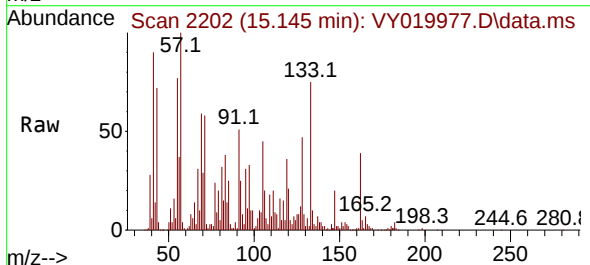
Instrument :
MSVOA_Y
ClientSampleId :

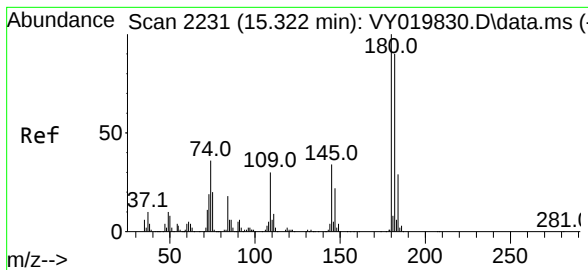
Tgt Ion: 75 Resp: 1860
Ion Ratio Lower Upper
75 100
155 0.0 48.6 145.8#
157 0.0 62.7 188.2#



#95
Naphthalene
Concen: 12.240 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. 0.000 min
Lab File: VY019977.D
Acq: 22 Oct 2024 13:36

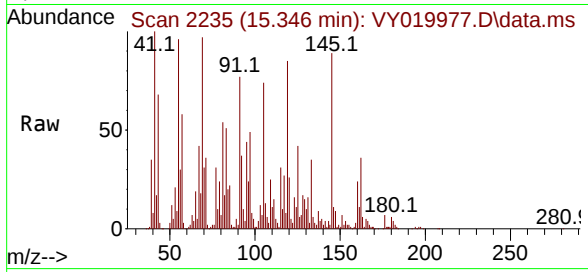
Tgt Ion:128 Resp: 71333
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.568 ug/l
 RT: 15.346 min Scan# 21
 Delta R.T. 0.019 min
 Lab File: VY019977.D
 Acq: 22 Oct 2024 13:36

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:180 Resp: 4097
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.6 142.9#
 145 4294.8 15.4 46.1#

