

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY013125\
 Data File : VY021016.D
 Acq On : 31 Jan 2025 17:40
 Operator : SY/MD
 Sample : Q1244-01RE
 Misc : 4.99g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 31 22:27:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y013025S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 31 16:50:06 2025
 Response via : Initial Calibration

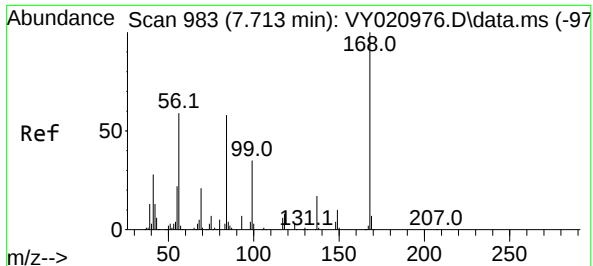
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	227831	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	407285	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	389612	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	177554	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	116156	59.881	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 119.760%	
35) Dibromofluoromethane	7.634	113	130033	53.107	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.220%	
50) Toluene-d8	10.109	98	489278	51.197	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.400%	
62) 4-Bromofluorobenzene	12.407	95	174853	54.526	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 109.060%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.872	59	204	1.440	ug/l #	73
16) Acetone	3.866	43	2220	8.397	ug/l	100
25) 2-Butanone	6.884	43	532	1.186	ug/l #	44
31) Cyclohexane	7.707	56	3494	1.024	ug/l #	16
36) 1,1-Dichloropropene	7.713	75	14576	4.173	ug/l #	51
38) Carbon Tetrachloride	7.707	117	22324	5.164	ug/l #	17
68) m/p-Xylenes	11.627	106	25982	4.758	ug/l	96
69) o-Xylene	11.956	106	16057	3.163	ug/l	100
73) Isopropylbenzene	12.255	105	12637	1.013	ug/l	96
74) N-amyl acetate	12.054	43	8656	3.812	ug/l #	61
76) 1,2,3-Trichloropropane	12.407	75	88066	62.655	ug/l #	100
78) n-propylbenzene	12.596	91	38884	2.661	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	99585	9.748	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.407	75	88066	130.061	ug/l #	15
82) 4-Chlorotoluene	12.737	91	11012	1.292	ug/l #	53
83) tert-Butylbenzene	13.041	119	52166	5.506	ug/l #	67
84) 1,2,4-Trimethylbenzene	13.041	105	413300	41.414	ug/l	99
85) sec-Butylbenzene	13.176	105	46688	3.480	ug/l	88
86) p-Isopropyltoluene	13.291	119	39671	3.519	ug/l	98
89) n-Butylbenzene	13.621	91	43018	4.260	ug/l #	72
90) Hexachloroethane	13.895	117	17735	7.776	ug/l #	7
92) 1,2-Dibromo-3-Chloropr...	14.255	75	1711	5.521	ug/l #	1
95) Naphthalene	15.151	128	27880	8.760	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.303	180	1862	5.067	ug/l #	1

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y013025S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 31 16:50:06 2025
Response via : Initial Calibration

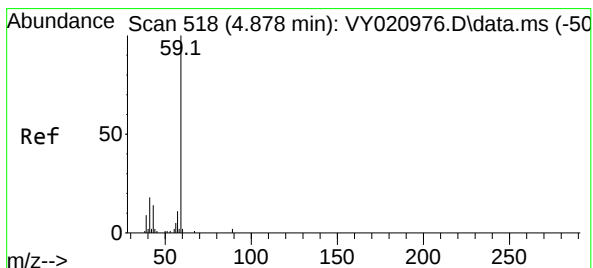
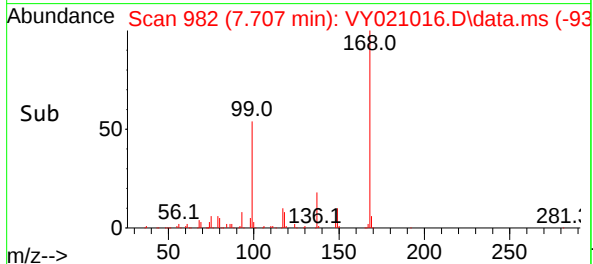
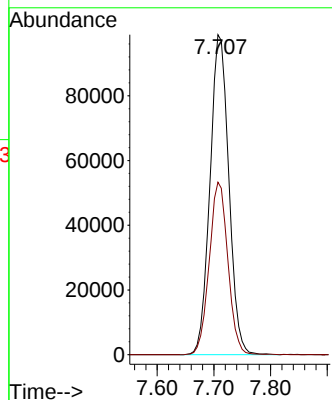
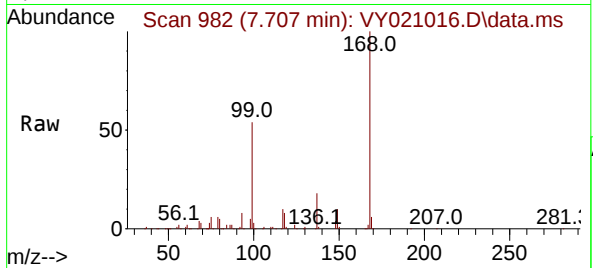




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

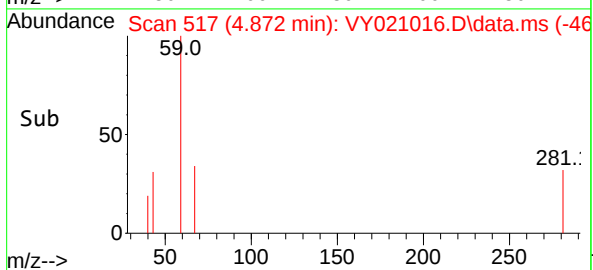
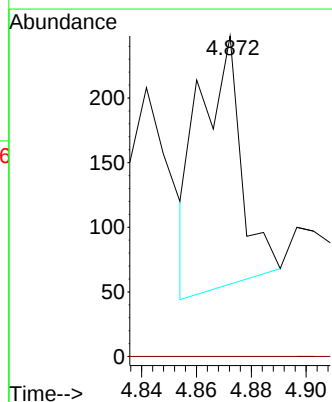
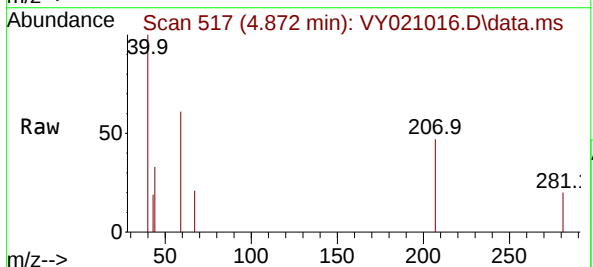
Instrument :
MSVOA_Y
ClientSampleId :

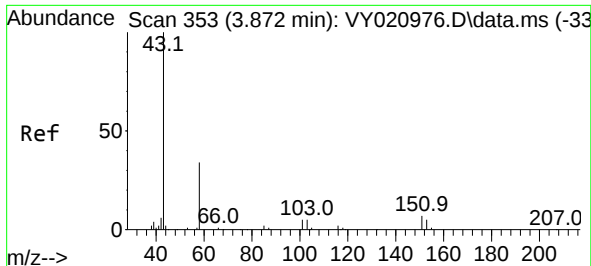
Tgt Ion:168 Resp: 227831
Ion Ratio Lower Upper
168 100
99 53.9 42.2 63.2



#11
Tert butyl alcohol
Concen: 1.440 ug/l
RT: 4.872 min Scan# 517
Delta R.T. -0.006 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

Tgt Ion: 59 Resp: 204
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

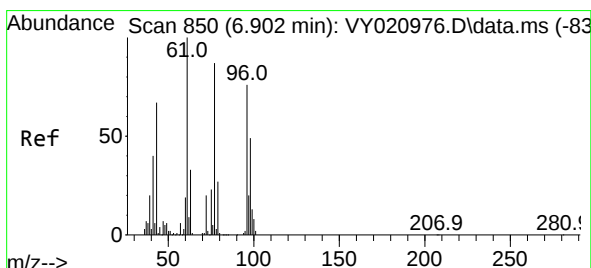
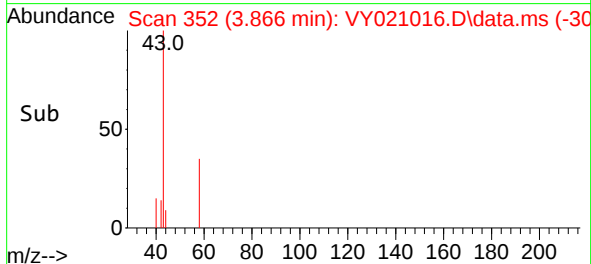
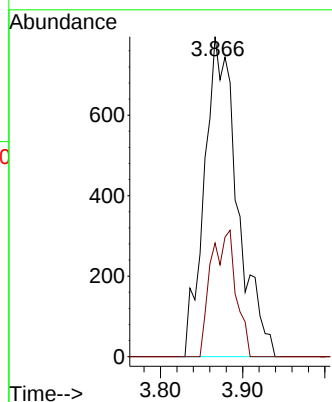
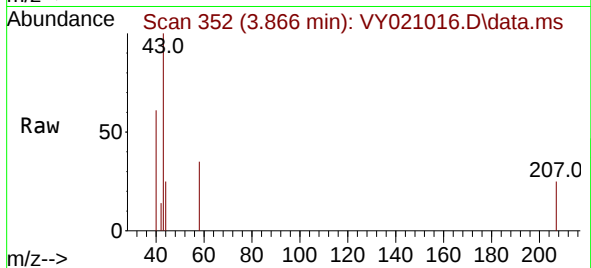




#16
Acetone
Concen: 8.397 ug/l
RT: 3.866 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

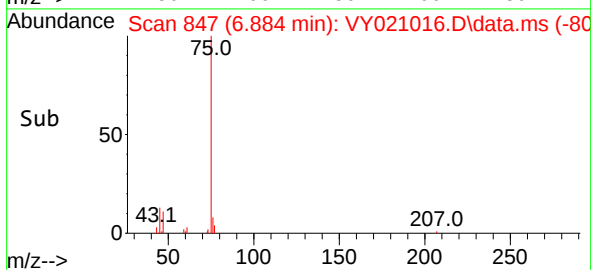
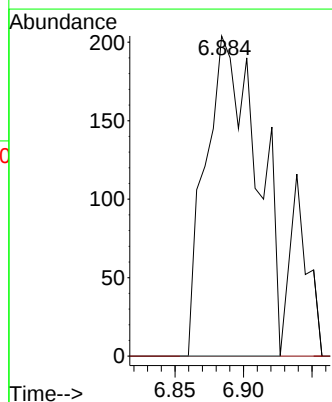
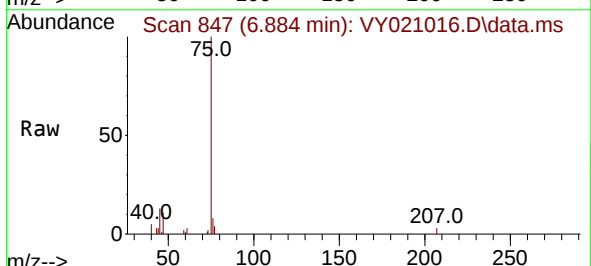
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MSVOA_Y
ClientSampleId :

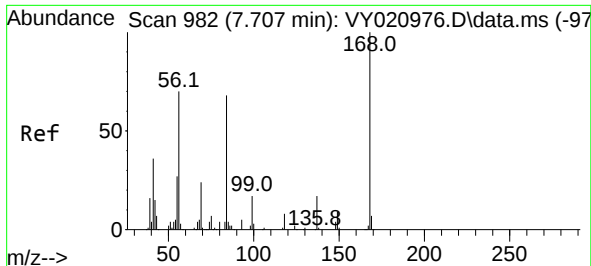
Tgt Ion: 43 Resp: 2220
Ion Ratio Lower Upper
43 100
58 35.5 28.4 42.6



#25
2-Butanone
Concen: 1.186 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.018 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

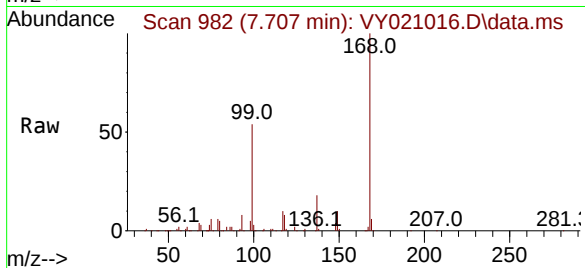
Tgt Ion: 43 Resp: 532
Ion Ratio Lower Upper
43 100
72 0.0 24.3 36.5#



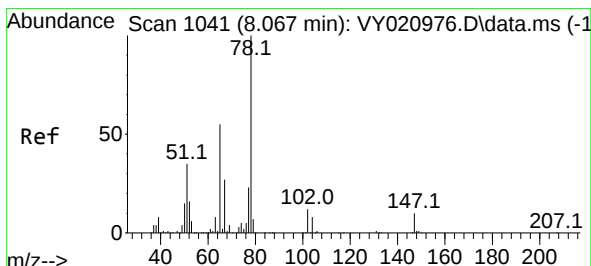
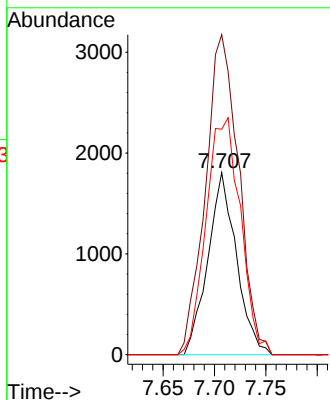
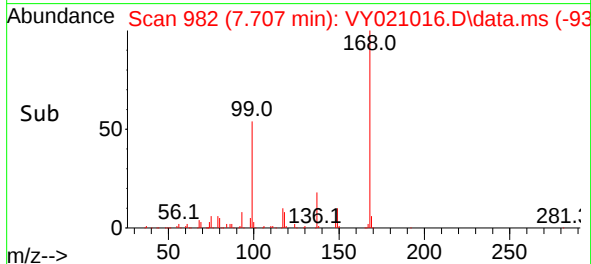


#31
Cyclohexane
Concen: 1.024 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

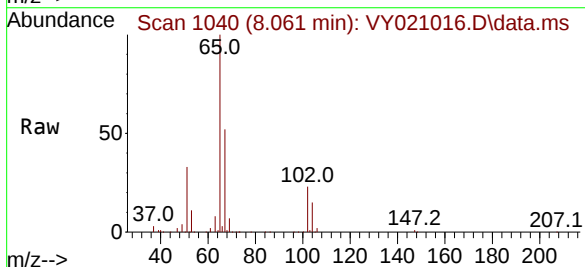
Instrument :
MSVOA_Y
ClientSampleId :



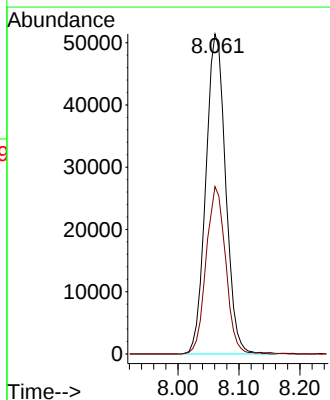
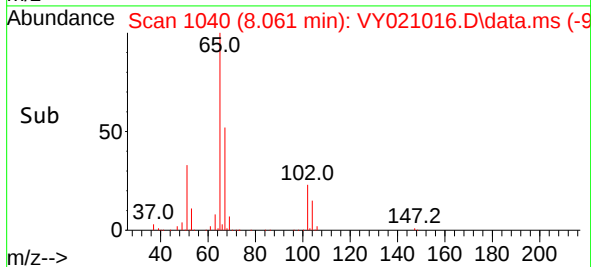
Tgt Ion: 56 Resp: 3494
Ion Ratio Lower Upper
56 100
69 175.7 27.7 41.5#
84 123.8 77.5 116.3#

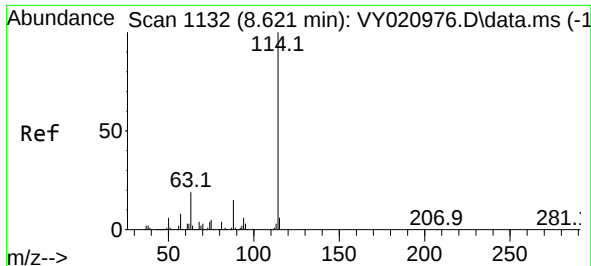


#33
1,2-Dichloroethane-d4
Concen: 59.881 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40



Tgt Ion: 65 Resp: 116156
Ion Ratio Lower Upper
65 100
67 51.4 0.0 104.4

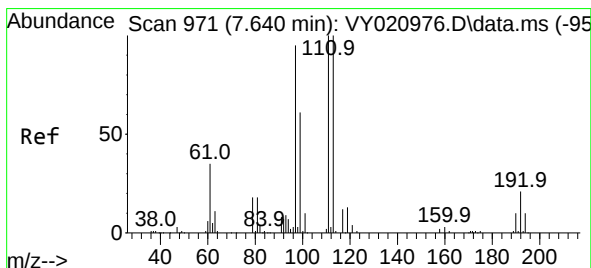
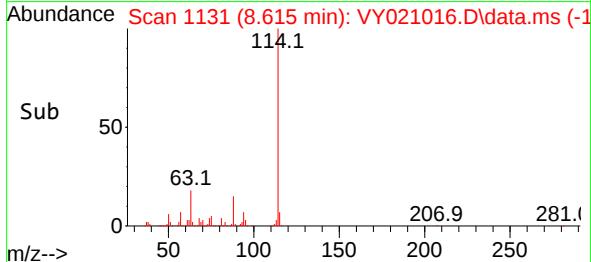
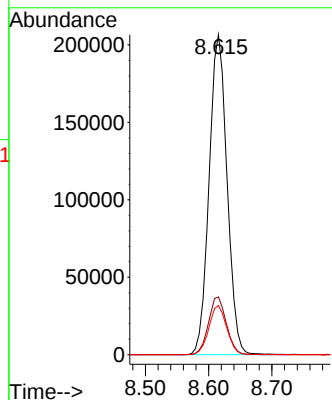
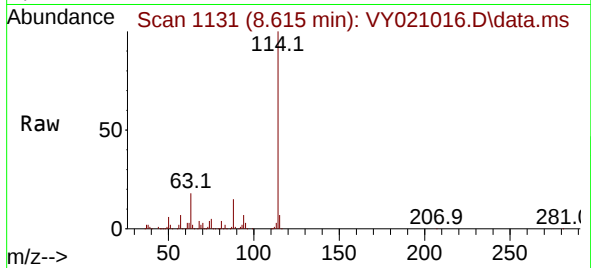




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

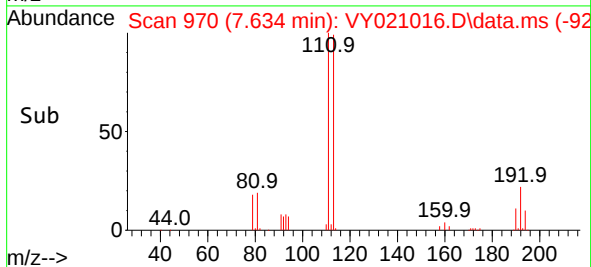
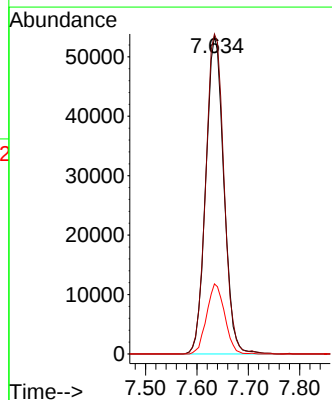
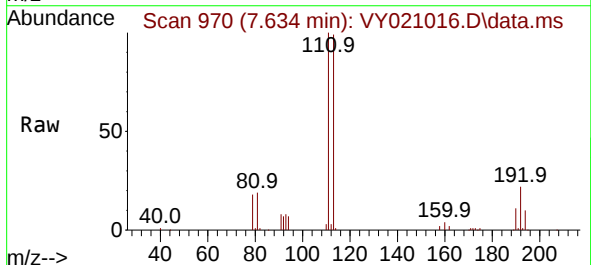
Instrument :
MSVOA_Y
ClientSampleId :

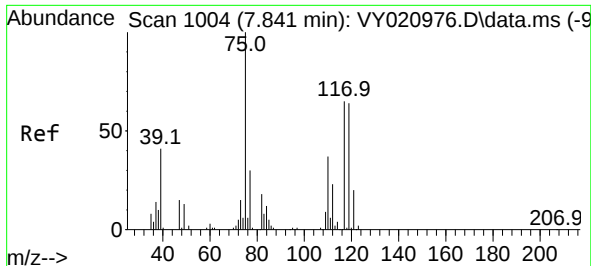
Tgt Ion:114 Resp: 407285
Ion Ratio Lower Upper
114 100
63 18.1 0.0 37.2
88 15.3 0.0 29.6



#35
Dibromofluoromethane
Concen: 53.107 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

Tgt Ion:113 Resp: 130033
Ion Ratio Lower Upper
113 100
111 102.1 82.6 123.8
192 22.0 16.8 25.2

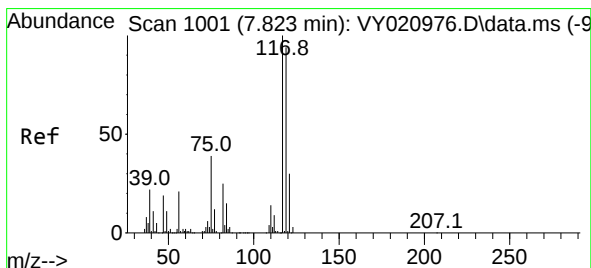
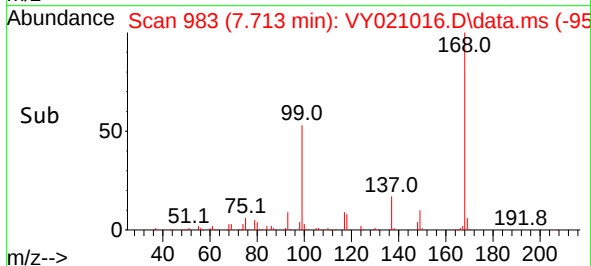
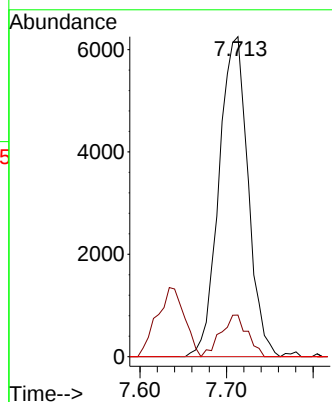
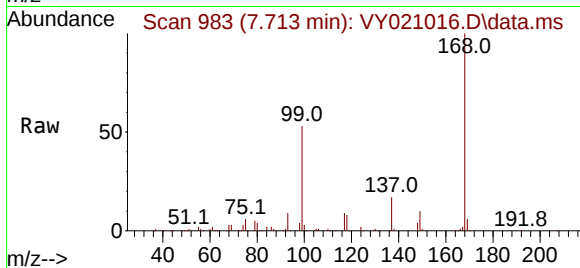




#36
1,1-Dichloropropene
Concen: 4.173 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

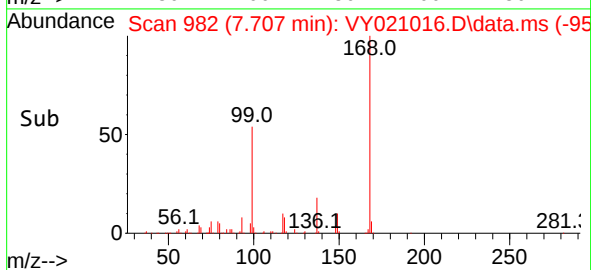
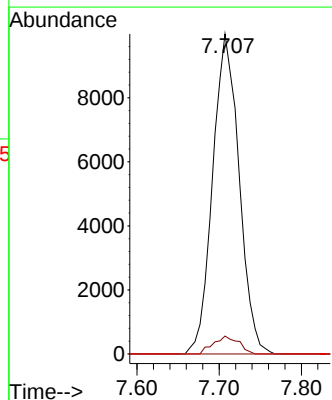
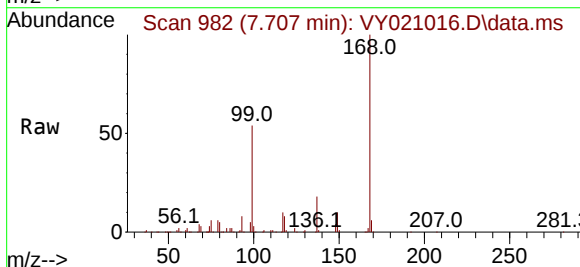
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ClientSampleId :

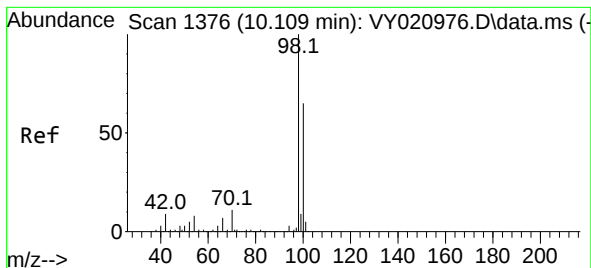
Tgt Ion: 75 Resp: 14576
Ion Ratio Lower Upper
75 100
110 11.9 18.4 55.2#
77 0.0 24.9 37.3#



#38
Carbon Tetrachloride
Concen: 5.164 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.116 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

Tgt Ion: 117 Resp: 22324
Ion Ratio Lower Upper
117 100
119 5.6 75.0 112.6#
121 0.0 24.2 36.2#

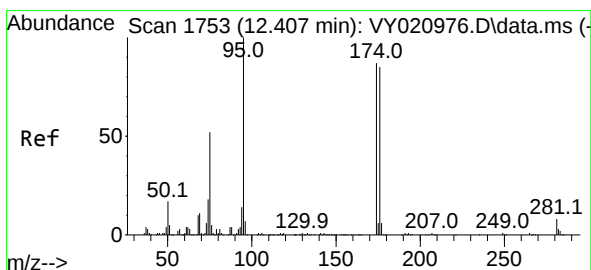
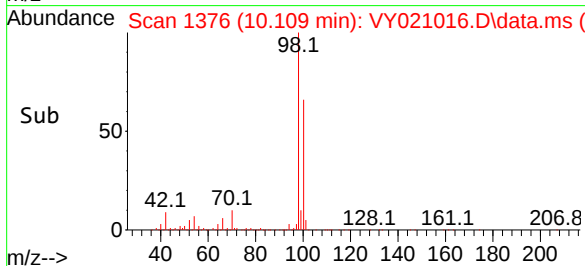
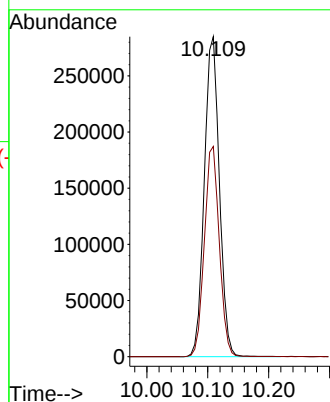
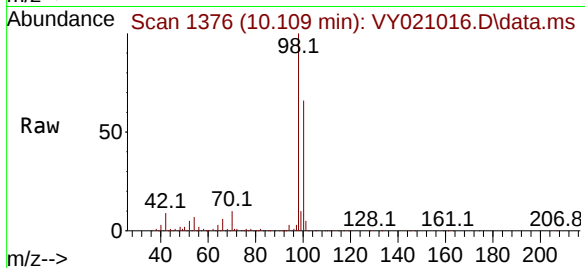




#50
Toluene-d8
Concen: 51.197 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

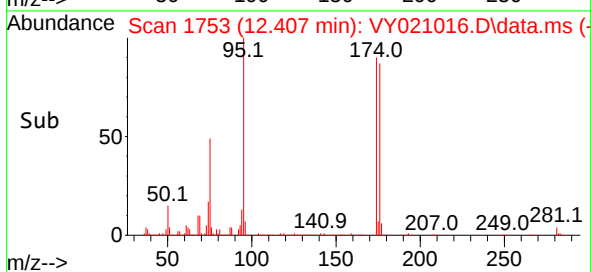
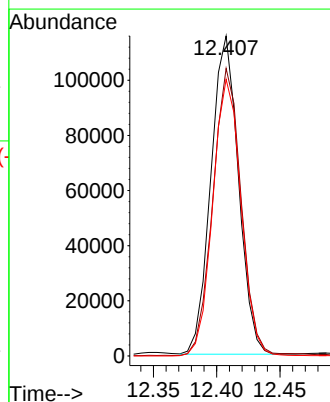
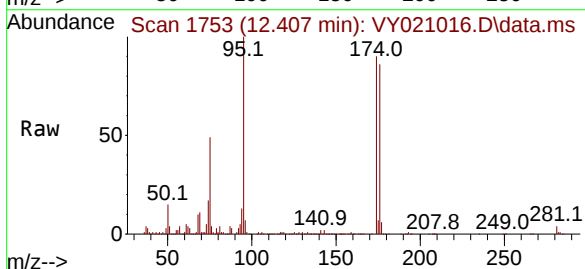
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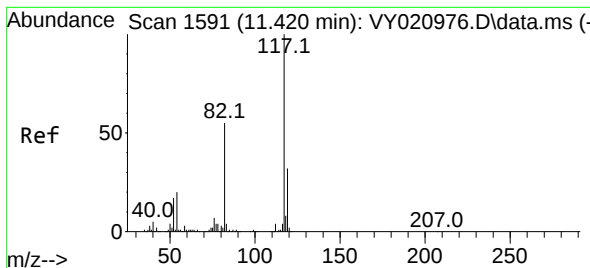
Tgt Ion: 98 Resp: 489278
Ion Ratio Lower Upper
98 100
100 65.2 52.6 79.0



#62
4-Bromofluorobenzene
Concen: 54.526 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

Tgt Ion: 95 Resp: 174853
Ion Ratio Lower Upper
95 100
174 93.4 0.0 181.2
176 89.1 0.0 175.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

Instrument :

MSVOA_Y

ClientSampleId :

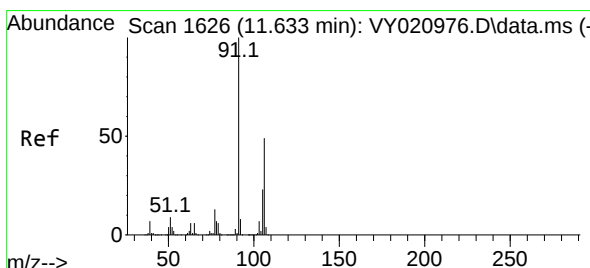
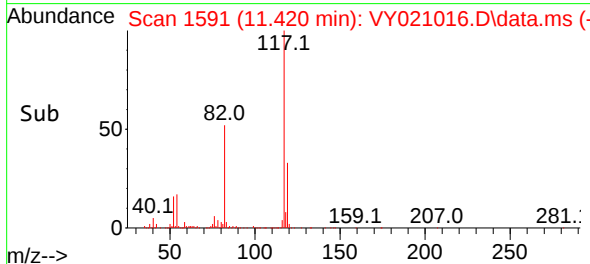
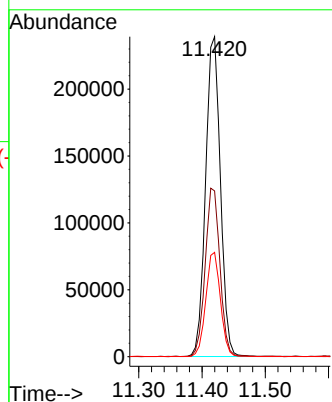
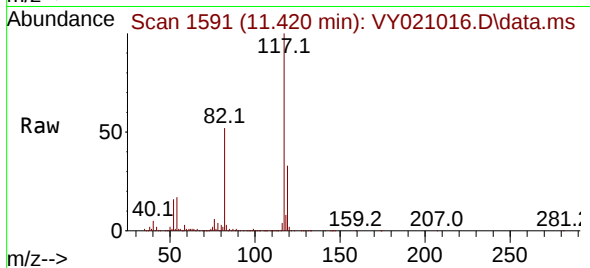
Tgt Ion:117 Resp: 389612

Ion Ratio Lower Upper

117 100

82 51.8 44.2 66.2

119 32.6 25.9 38.9



#68

m/p-Xylenes

Concen: 4.758 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.006 min

Lab File: VY021016.D

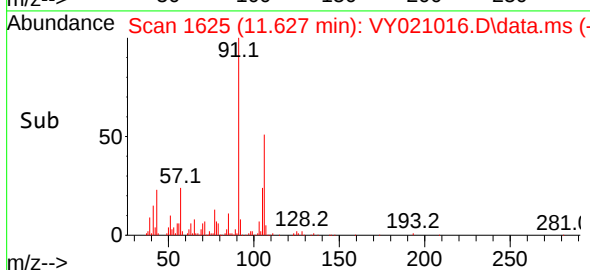
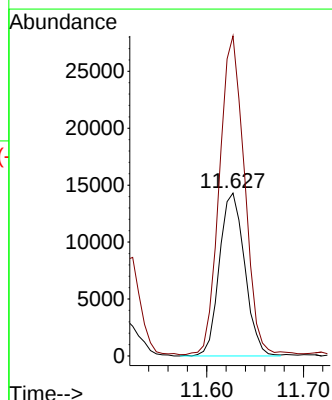
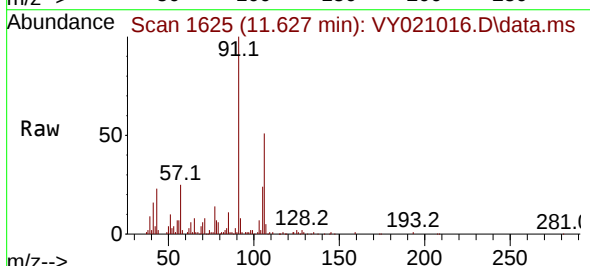
Acq: 31 Jan 2025 17:40

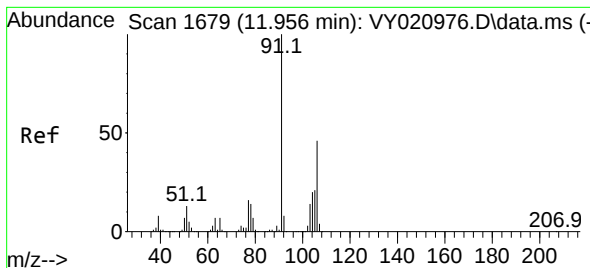
Tgt Ion:106 Resp: 25982

Ion Ratio Lower Upper

106 100

91 193.5 160.0 240.0





#69

o-Xylene

Concen: 3.163 ug/l

RT: 11.956 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

Instrument :

MSVOA_Y

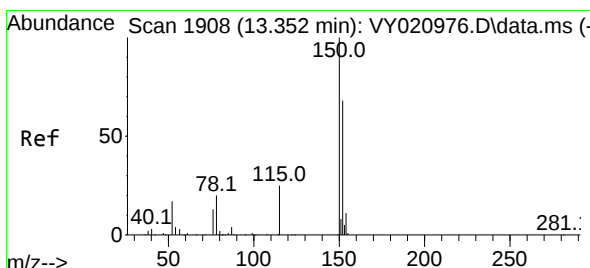
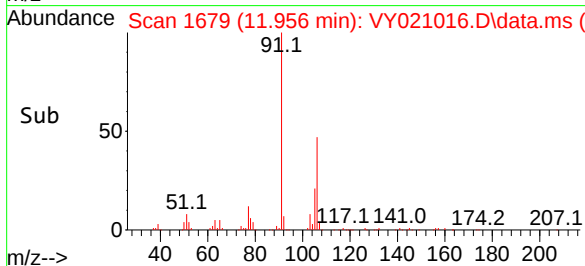
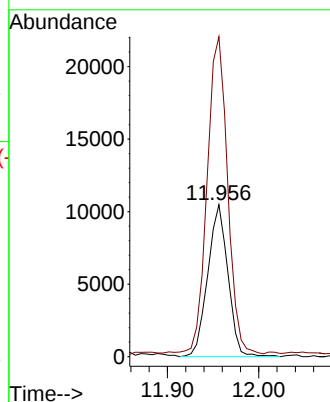
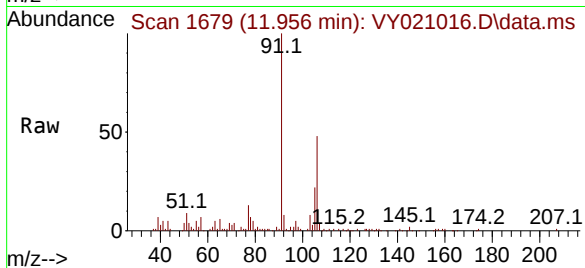
ClientSampleId :

Tgt Ion:106 Resp: 16057

Ion Ratio Lower Upper

106 100

91 211.3 105.8 317.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

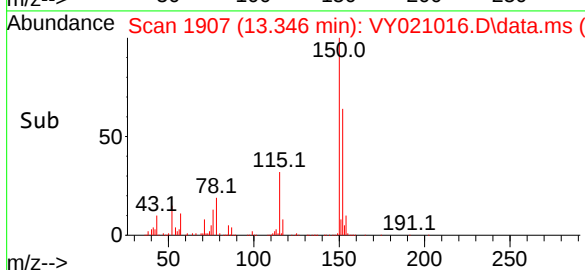
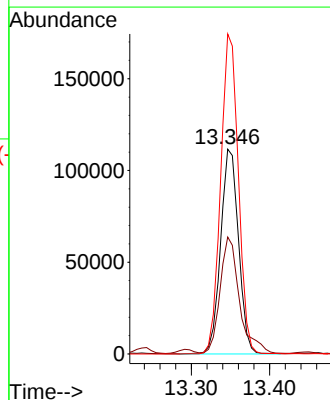
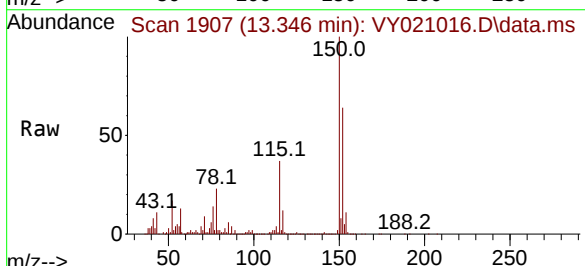
Tgt Ion:152 Resp: 177554

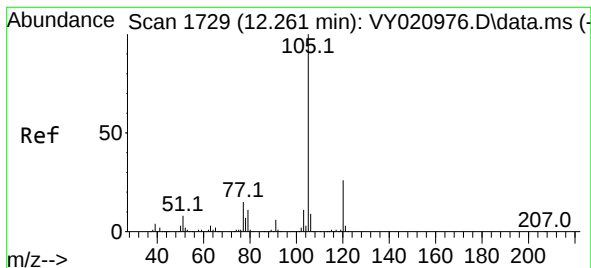
Ion Ratio Lower Upper

152 100

115 61.3 28.4 85.2

150 154.4 0.0 342.8





#73

Isopropylbenzene

Concen: 1.013 ug/l

RT: 12.255 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

Instrument :

MSVOA_Y

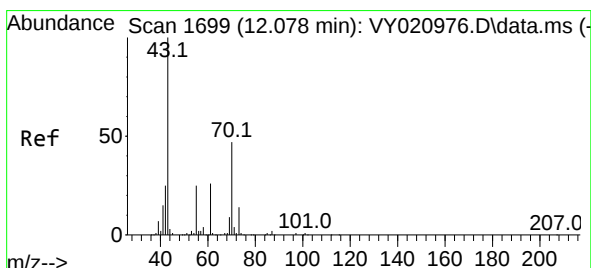
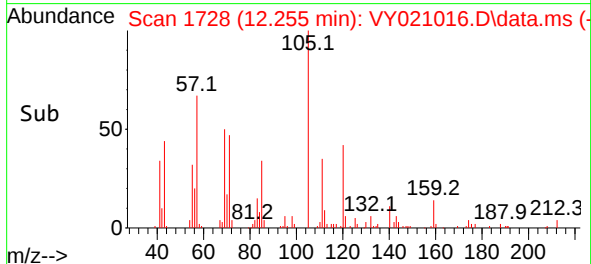
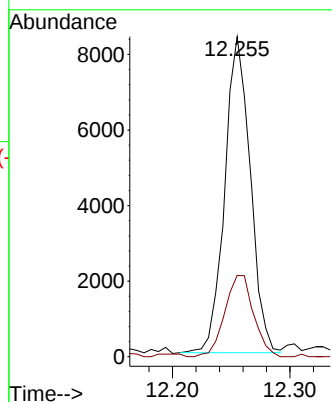
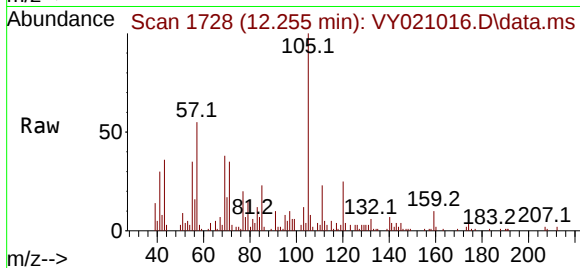
ClientSampleId :

Tgt Ion:105 Resp: 12637

Ion Ratio Lower Upper

105 100

120 28.9 13.4 40.2



#74

N-ethyl acetate

Concen: 3.812 ug/l

RT: 12.054 min Scan# 1695

Delta R.T. -0.024 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

Tgt Ion: 43 Resp: 8656

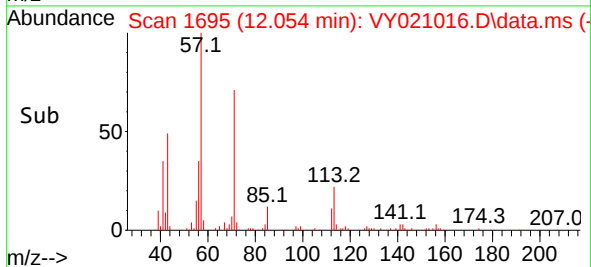
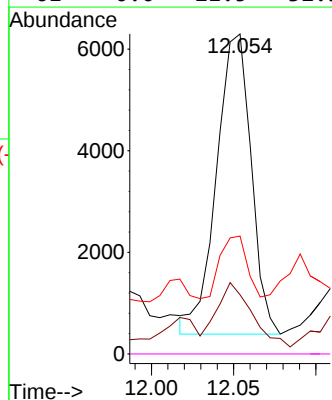
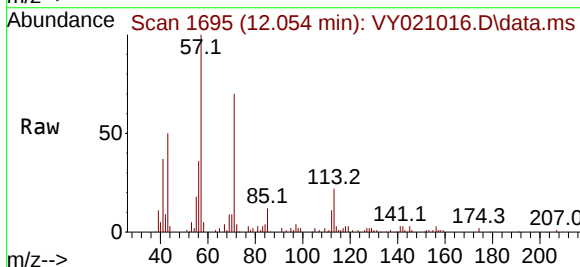
Ion Ratio Lower Upper

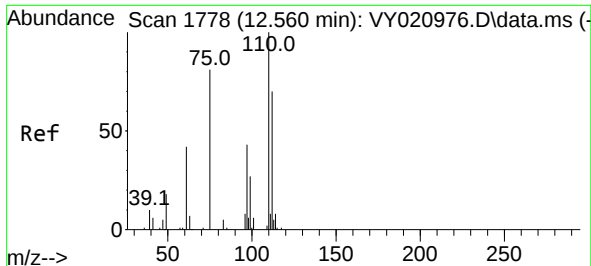
43 100

70 21.5 39.3 58.9#

55 16.0 22.3 33.5#

61 0.0 21.5 32.3#

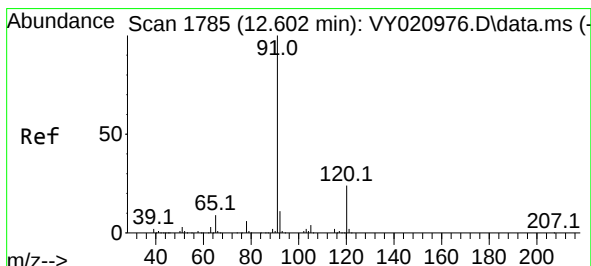
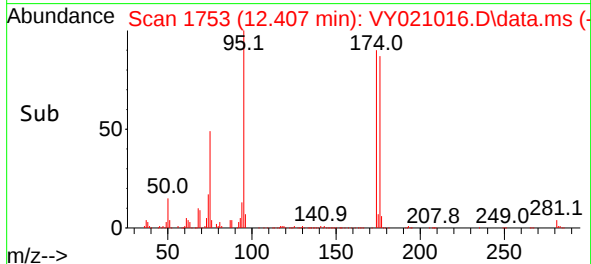
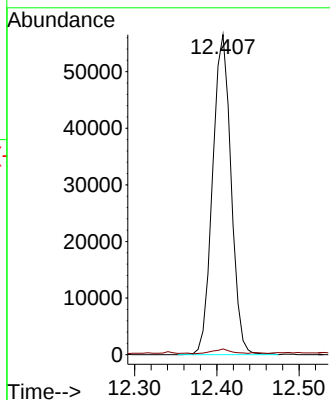
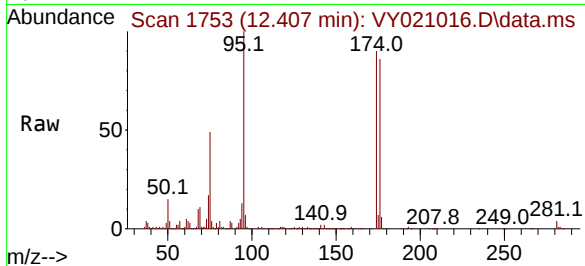




#76
1,2,3-Trichloropropane
Concen: 62.655 ug/l
RT: 12.407 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

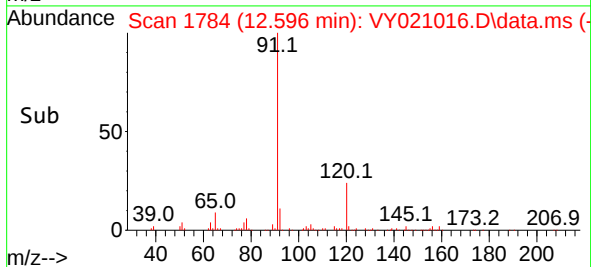
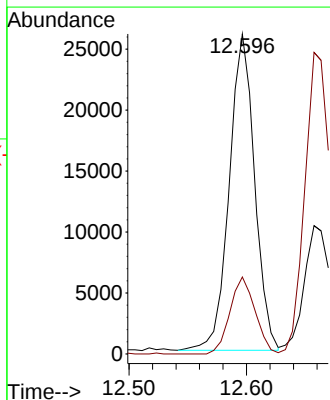
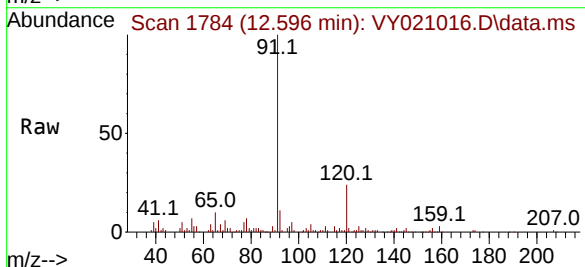
Instrument :
MSVOA_Y
ClientSampleId :

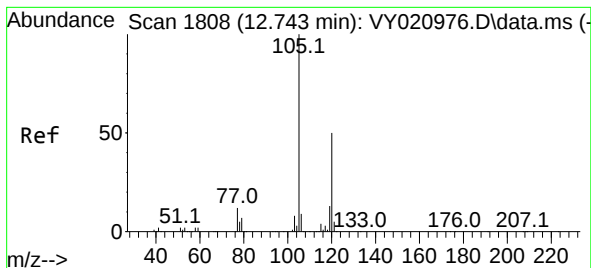
Tgt Ion: 75 Resp: 88066
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#78
n-propylbenzene
Concen: 2.661 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

Tgt Ion: 91 Resp: 38884
Ion Ratio Lower Upper
91 100
120 24.1 11.8 35.4





#80

1,3,5-Trimethylbenzene

Concen: 9.748 ug/l

RT: 12.737 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

Instrument :

MSVOA_Y

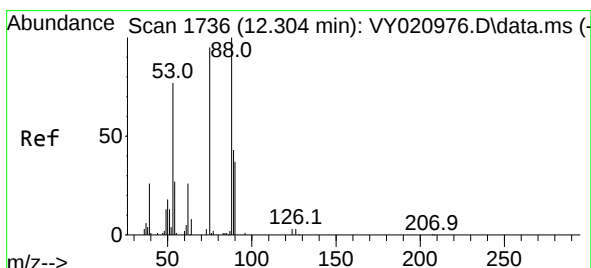
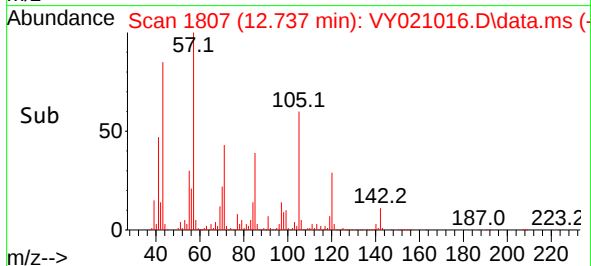
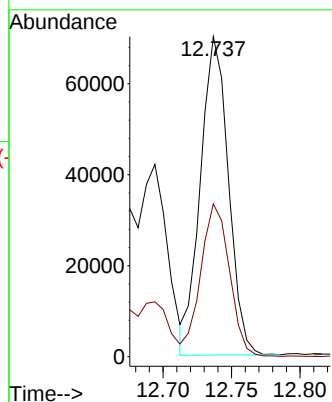
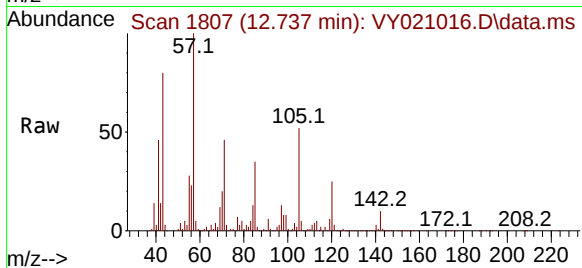
ClientSampleId :

Tgt Ion:105 Resp: 99585

Ion Ratio Lower Upper

105 100

120 49.3 24.3 72.9



#81

trans-1,4-Dichloro-2-butene

Concen: 130.061 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

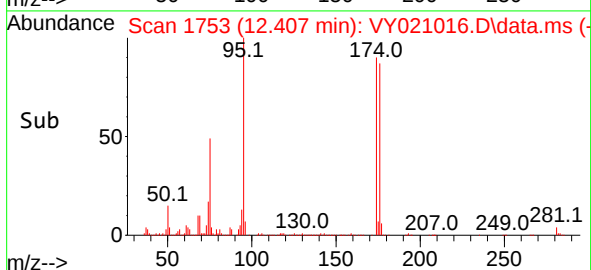
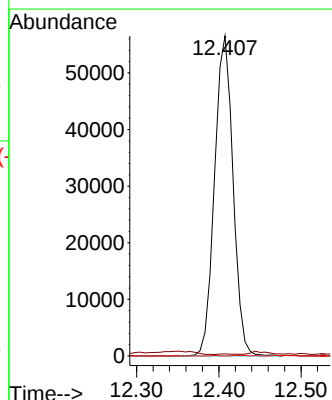
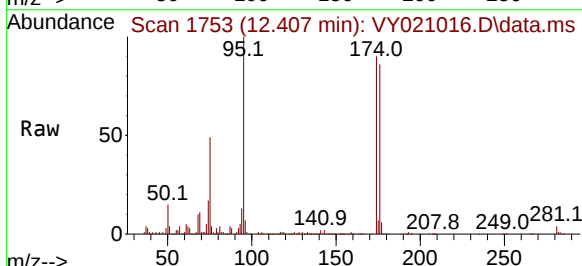
Tgt Ion: 75 Resp: 88066

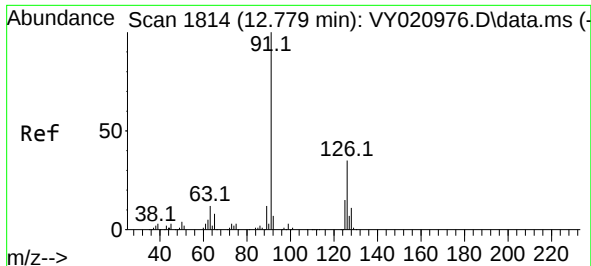
Ion Ratio Lower Upper

75 100

53 0.1 68.6 103.0#

89 0.1 38.1 57.1#

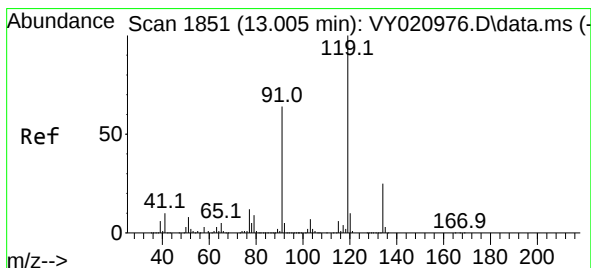
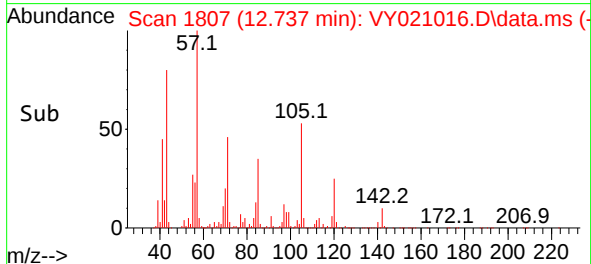
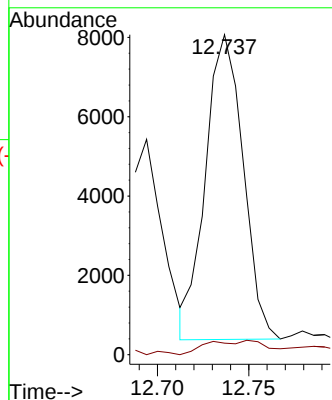
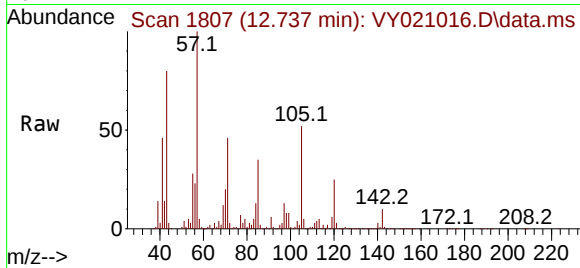




#82
4-Chlorotoluene
Concen: 1.292 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.042 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

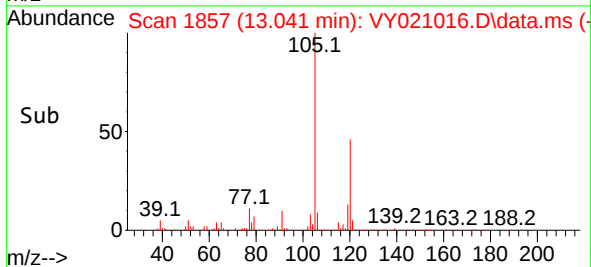
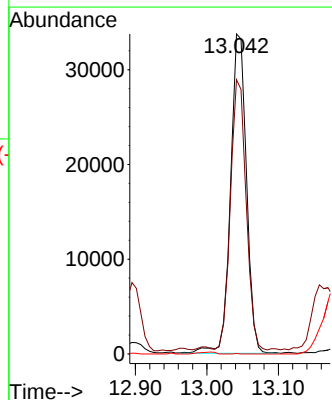
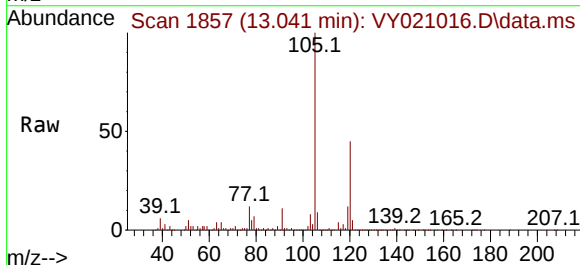
Instrument :
MSVOA_Y
ClientSampleId :

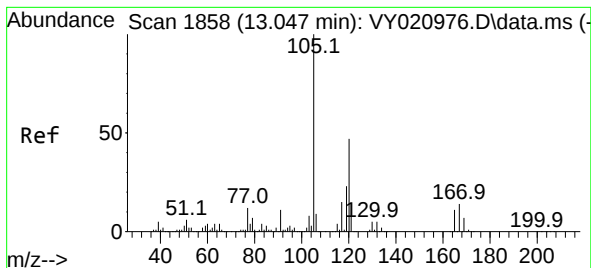
Tgt Ion: 91 Resp: 11012
Ion Ratio Lower Upper
91 100
126 7.4 17.3 52.0#



#83
tert-Butylbenzene
Concen: 5.506 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.037 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

Tgt Ion: 119 Resp: 52166
Ion Ratio Lower Upper
119 100
91 82.8 31.4 94.0
134 0.0 13.1 39.1#





#84

1,2,4-Trimethylbenzene

Concen: 41.414 ug/l

RT: 13.041 min Scan# 1857

Delta R.T. -0.006 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

Instrument :

MSVOA_Y

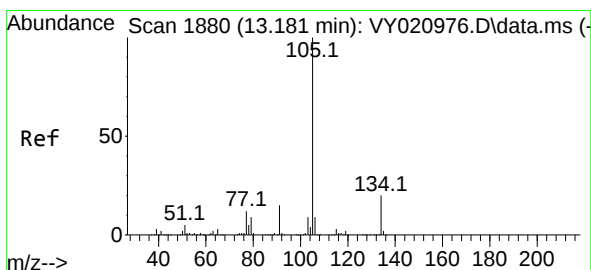
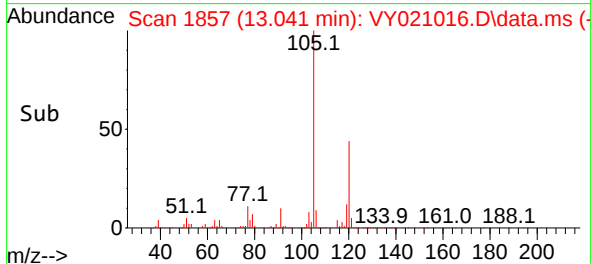
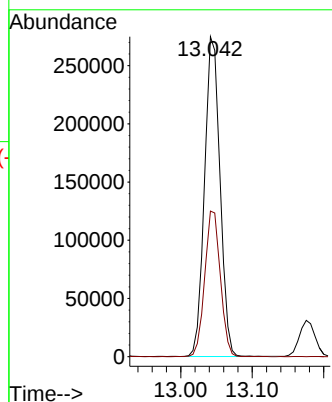
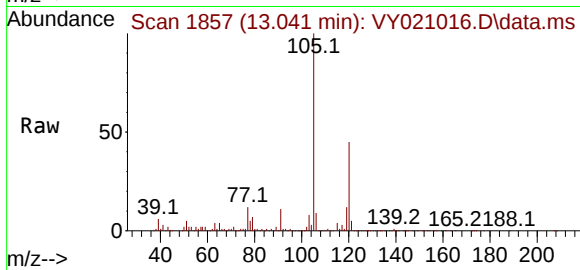
ClientSampleId :

Tgt Ion:105 Resp: 413300

Ion Ratio Lower Upper

105 100

120 46.0 22.7 68.0



#85

sec-Butylbenzene

Concen: 3.480 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. -0.006 min

Lab File: VY021016.D

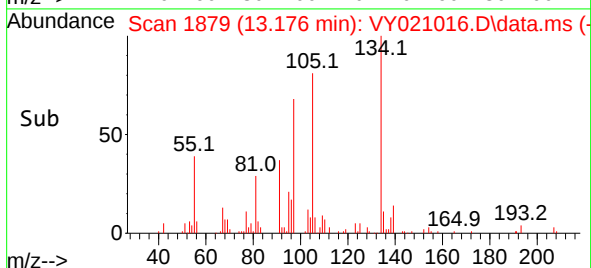
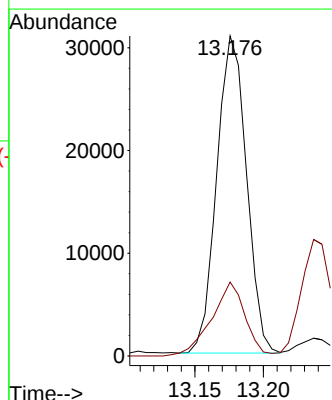
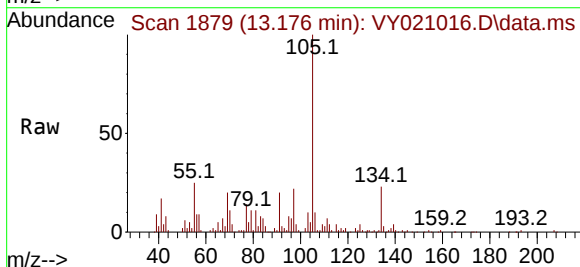
Acq: 31 Jan 2025 17:40

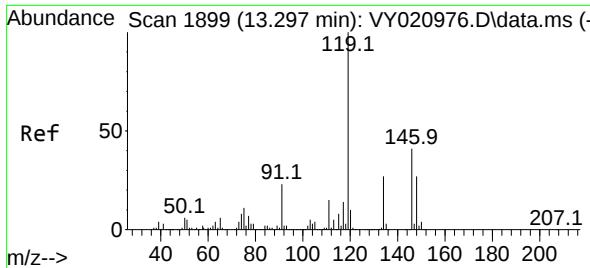
Tgt Ion:105 Resp: 46688

Ion Ratio Lower Upper

105 100

134 26.2 10.3 30.8

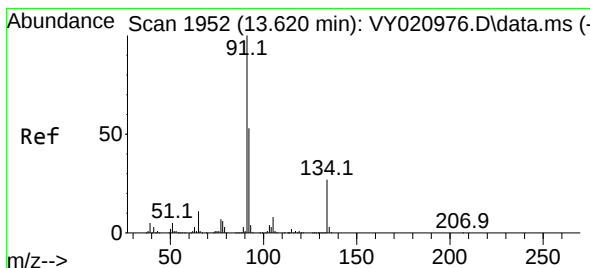
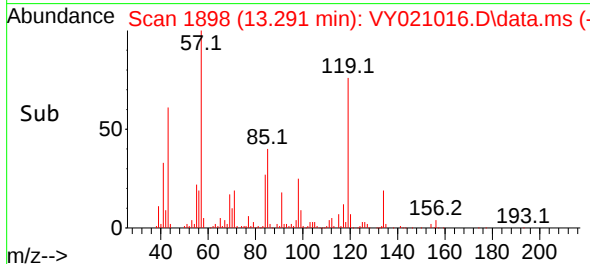
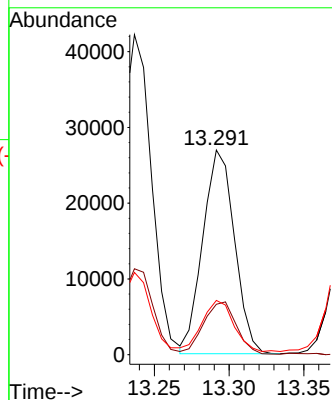
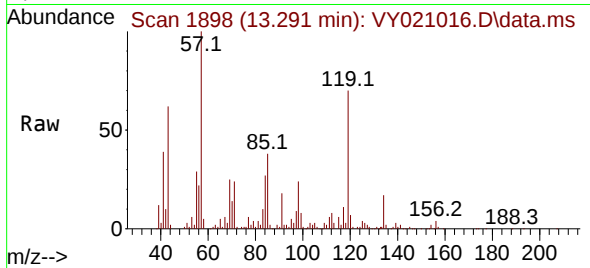




#86
p-Isopropyltoluene
Concen: 3.519 ug/l
RT: 13.291 min Scan# 119
Delta R.T. -0.006 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

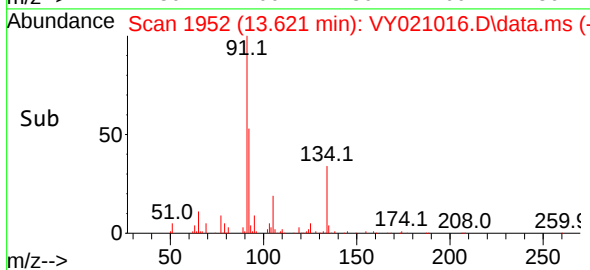
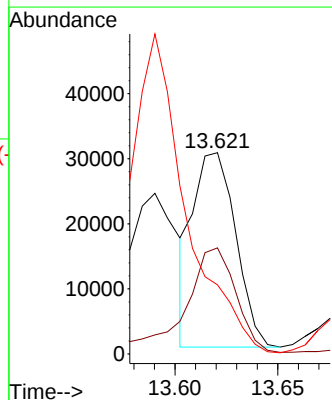
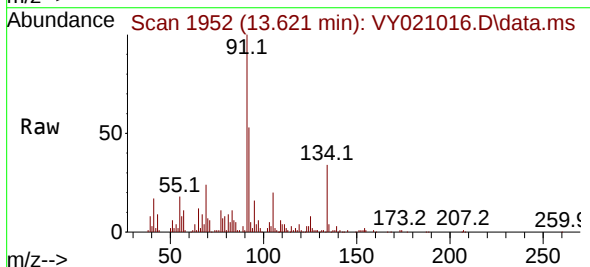
Instrument :
MSVOA_Y
ClientSampleId :

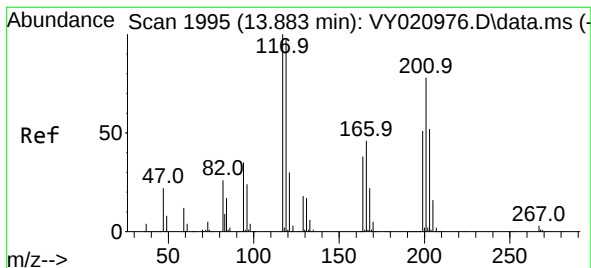
Tgt Ion:119 Resp: 39671
Ion Ratio Lower Upper
119 100
134 26.6 13.1 39.3
91 24.9 11.5 34.5



#89
n-Butylbenzene
Concen: 4.260 ug/l
RT: 13.621 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VY021016.D
Acq: 31 Jan 2025 17:40

Tgt Ion: 91 Resp: 43018
Ion Ratio Lower Upper
91 100
92 63.8 26.7 80.1
134 0.0 13.7 41.1#





#90

Hexachloroethane

Concen: 7.776 ug/l

RT: 13.895 min Scan# 1995

Delta R.T. 0.012 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

Instrument :

MSVOA_Y

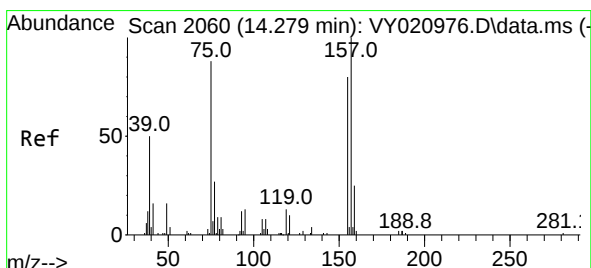
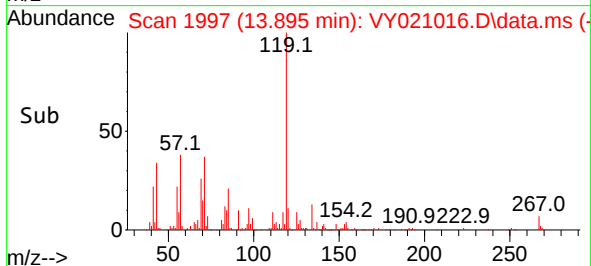
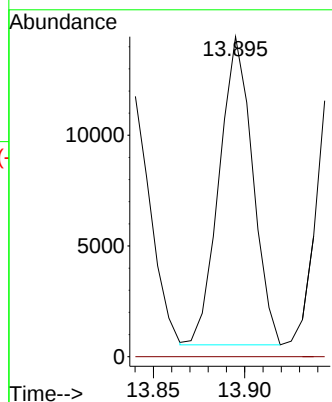
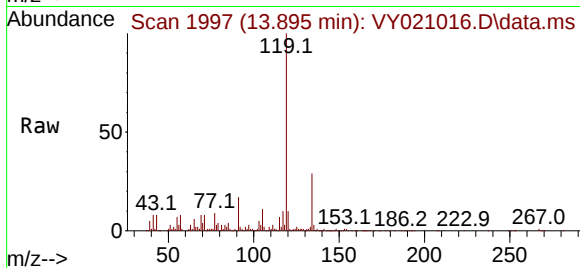
ClientSampleId :

Tgt Ion:117 Resp: 17735

Ion Ratio Lower Upper

117 100

201 0.0 42.5 127.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.521 ug/l

RT: 14.255 min Scan# 2056

Delta R.T. -0.024 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

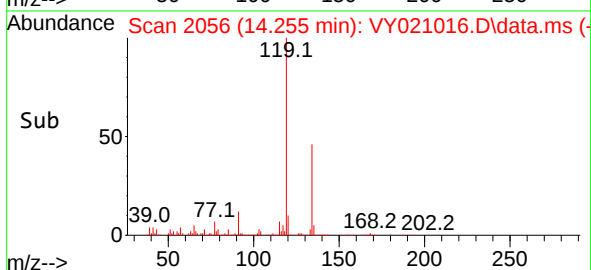
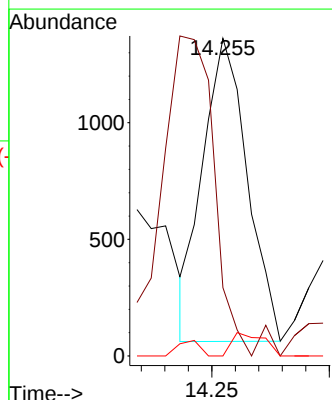
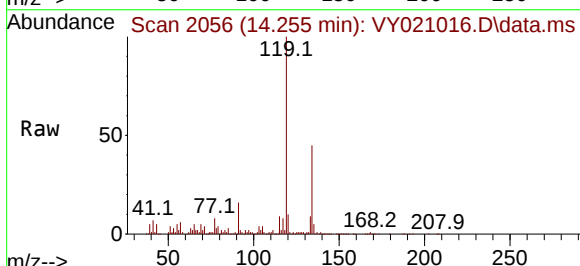
Tgt Ion: 75 Resp: 1711

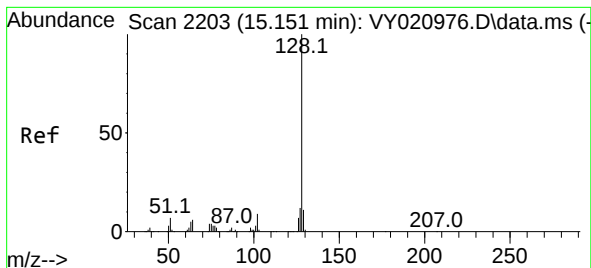
Ion Ratio Lower Upper

75 100

155 0.0 45.9 137.6#

157 5.5 59.3 177.9#





#95

Naphthalene

Concen: 8.760 ug/l

RT: 15.151 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

Instrument :

MSVOA_Y

ClientSampleId :

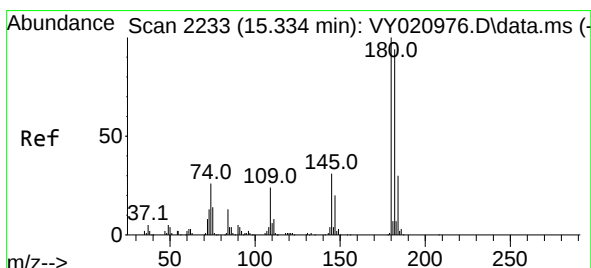
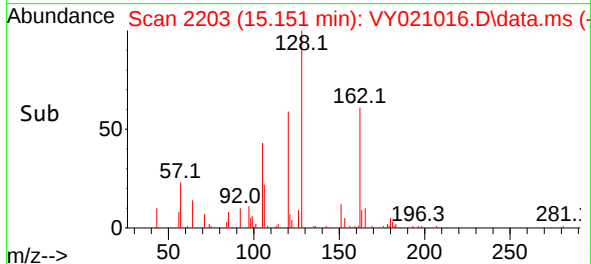
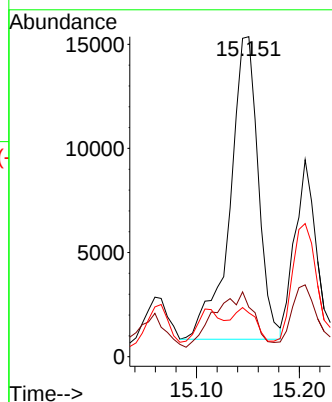
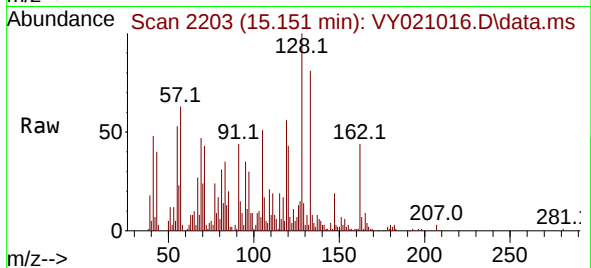
Tgt Ion:128 Resp: 27880

Ion Ratio Lower Upper

128 100

127 25.2 10.2 15.4#

129 9.1 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 5.067 ug/l

RT: 15.303 min Scan# 2228

Delta R.T. -0.031 min

Lab File: VY021016.D

Acq: 31 Jan 2025 17:40

Tgt Ion:180 Resp: 1862

Ion Ratio Lower Upper

180 100

182 27.0 47.7 143.1#

145 804.2 15.6 46.7#

