

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY010625\
 Data File : VY020786.D
 Acq On : 06 Jan 2025 16:22
 Operator : SY/MD
 Sample : Q1010-02
 Misc : 4.99g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 07 02:04:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y010625S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 01:31:46 2025
 Response via : Initial Calibration

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

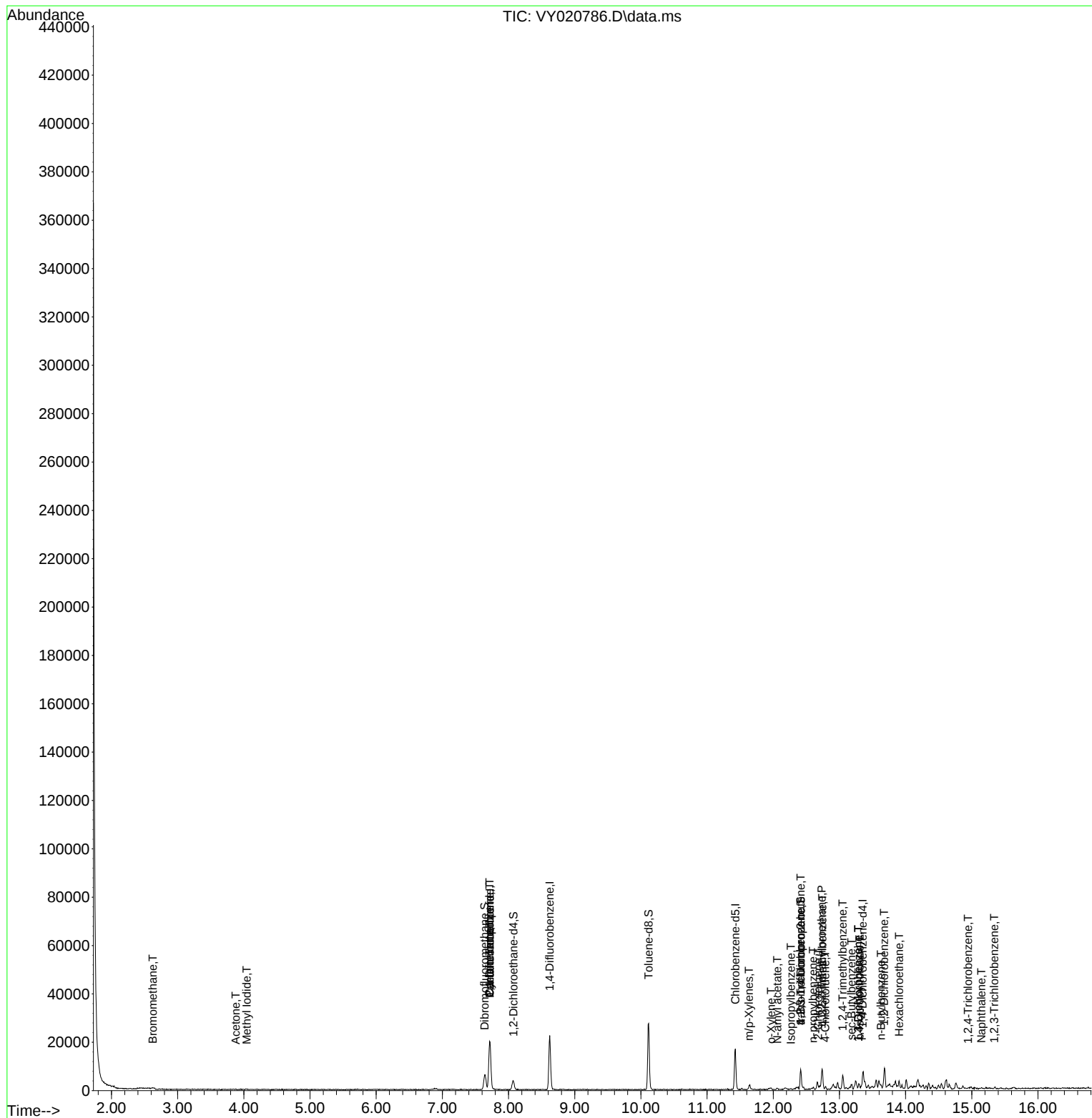
Internal Standards						
1) Pentafluorobenzene	7.720	168	16952	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	19637	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	10192	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	1741	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	3400	23.597	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	47.200%#		
35) Dibromofluoromethane	7.640	113	4889	39.740	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	79.480%		
50) Toluene-d8	10.115	98	19740	46.029	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	92.060%		
62) 4-Bromofluorobenzene	12.414	95	2709	17.105	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	34.220%		
Target Compounds						Qvalue
5) Bromomethane	2.623	94	106	2.044	ug/l #	67
10) Methyl Iodide	4.043	142	232	1.434	ug/l #	35
16) Acetone	3.879	43	42	2.050	ug/l #	41
31) Cyclohexane	7.713	56	225	1.073	ug/l #	70
36) 1,1-Dichloropropene	7.713	75	1121	7.144	ug/l #	50
38) Carbon Tetrachloride	7.713	117	1645	7.531	ug/l #	12
68) m/p-Xylenes	11.634	106	444	2.956	ug/l	95
69) o-Xylene	11.969	106	268	1.882	ug/l	100
73) Isopropylbenzene	12.268	105	518	3.750	ug/l #	65
74) N-amyl acetate	12.060	43	110	4.869	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.731	83	361	17.245	ug/l #	1
76) 1,2,3-Trichloropropane	12.414	75	1440	94.529	ug/l #	100
78) n-propylbenzene	12.603	91	1018	6.494	ug/l	94
79) 2-Chlorotoluene	12.676	91	568	6.292	ug/l #	47
80) 1,3,5-Trimethylbenzene	12.743	105	1316	11.757	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.414	75	1440	199.318	ug/l #	14
82) 4-Chlorotoluene	12.786	91	103	1.106	ug/l #	40
84) 1,2,4-Trimethylbenzene	13.048	105	3267	29.889	ug/l	91
85) sec-Butylbenzene	13.182	105	1081	7.392	ug/l	88
86) p-Isopropyltoluene	13.304	119	634	5.082	ug/l	89
87) 1,3-Dichlorobenzene	13.286	146	64	1.034	ug/l	88
88) 1,4-Dichlorobenzene	13.286	146	64	1.051	ug/l	89
89) n-Butylbenzene	13.627	91	773	7.143	ug/l #	81
90) Hexachloroethane	13.901	117	170	6.787	ug/l #	6
91) 1,2-Dichlorobenzene	13.676	146	86	1.590	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.944	180	131	4.208	ug/l #	21
95) Naphthalene	15.145	128	389	7.591	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.340	180	150	5.751	ug/l #	42

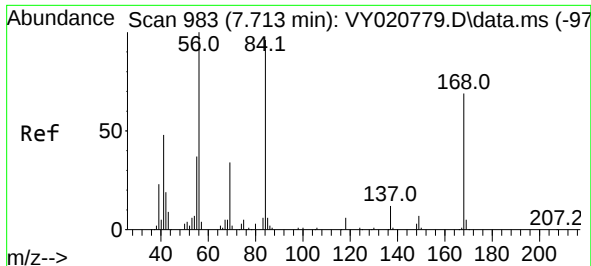
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jan 07 01:31:46 2025
Response via : Initial Calibration

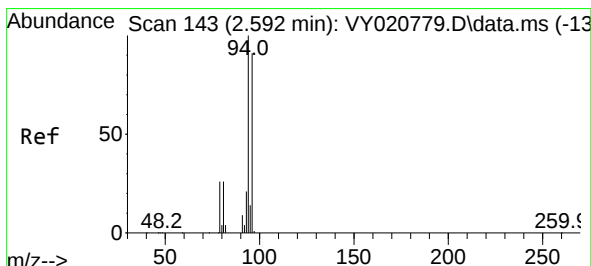
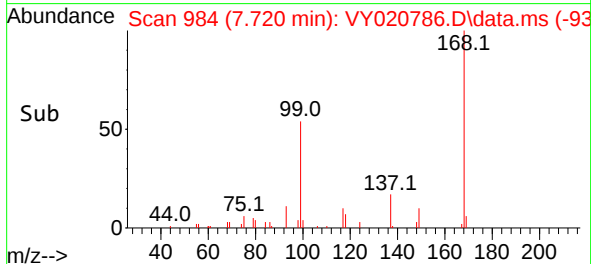
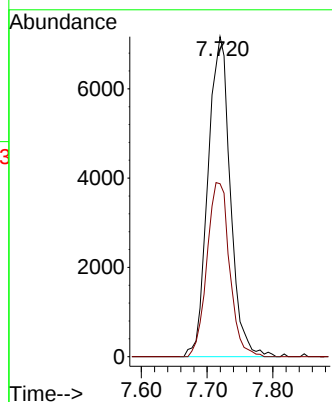
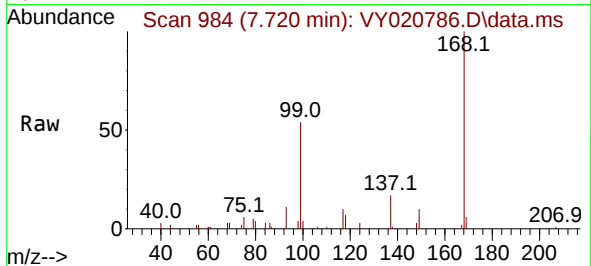




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 91
Delta R.T. 0.007 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

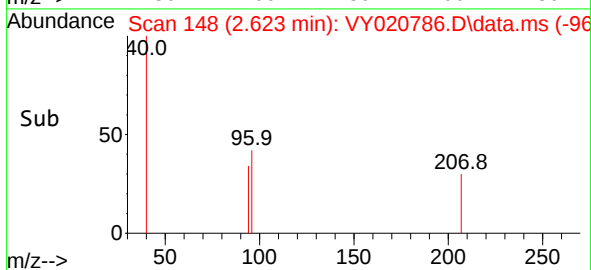
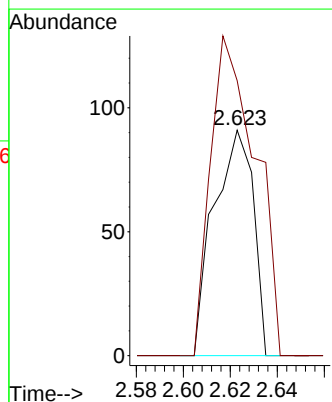
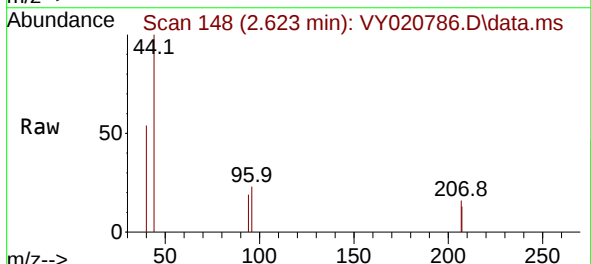
Instrument :
MSVOA_Y
ClientSampleId :

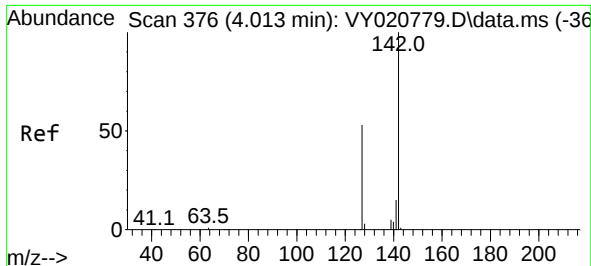
Tgt Ion:168 Resp: 16952
Ion Ratio Lower Upper
168 100
99 54.1 44.3 66.5



#5
Bromomethane
Concen: 2.044 ug/l
RT: 2.623 min Scan# 148
Delta R.T. 0.018 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

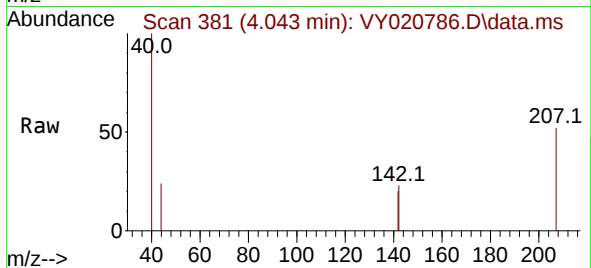
Tgt Ion: 94 Resp: 106
Ion Ratio Lower Upper
94 100
96 122.0 72.6 109.0#



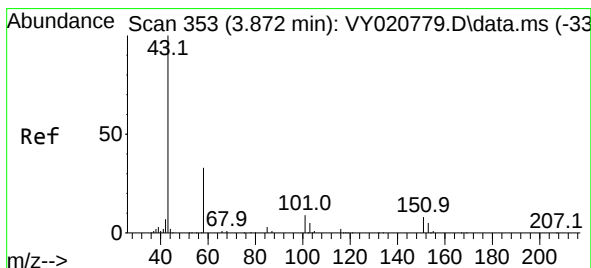
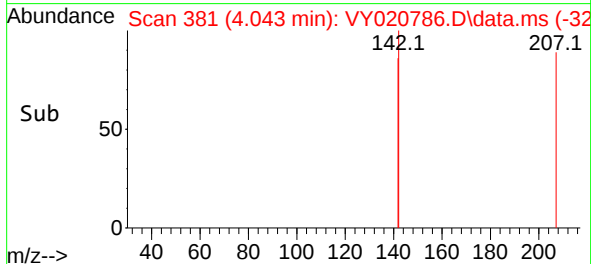
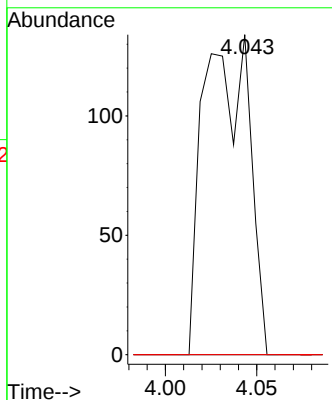


#10
Methyl Iodide
Concen: 1.434 ug/l
RT: 4.043 min Scan# 31
Delta R.T. 0.031 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

Instrument :
MSVOA_Y
ClientSampleId :

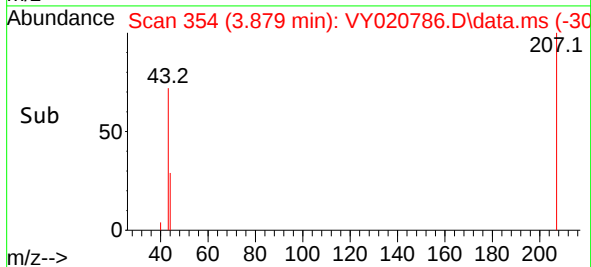
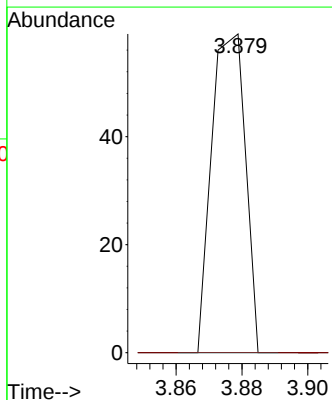
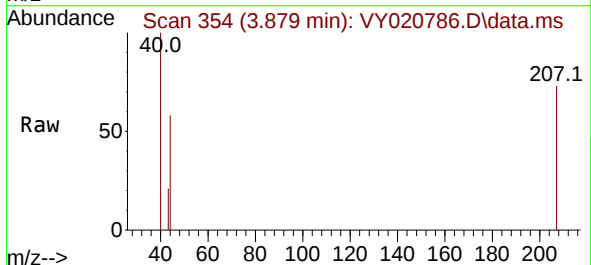


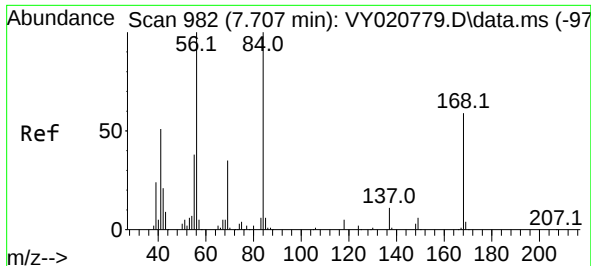
Tgt Ion:142 Resp: 232
Ion Ratio Lower Upper
142 100
127 0.0 41.0 61.6#
141 0.0 11.6 17.4#



#16
Acetone
Concen: 2.050 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

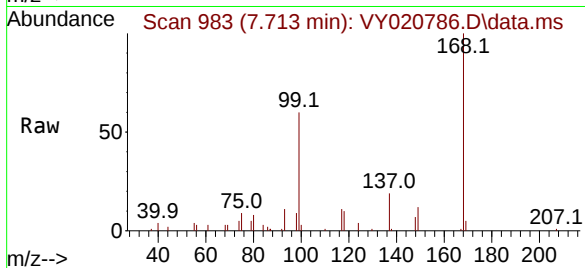
Tgt Ion: 43 Resp: 42
Ion Ratio Lower Upper
43 100
58 0.0 26.7 40.1#



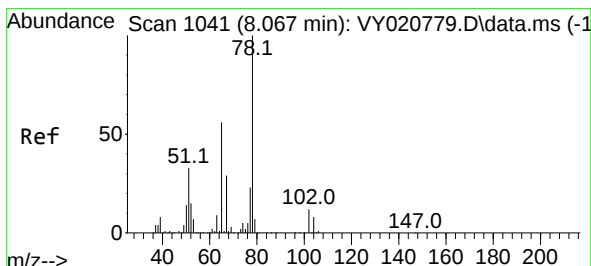
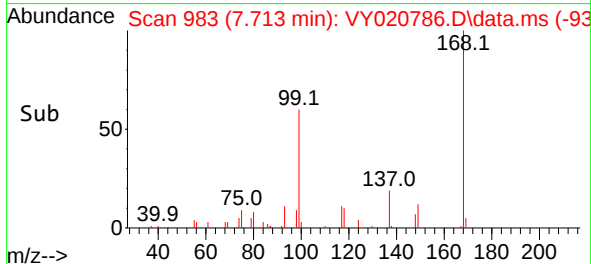
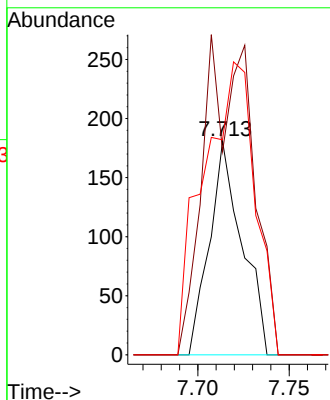


#31
Cyclohexane
Concen: 1.073 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

Instrument :
MSVOA_Y
ClientSampleId :

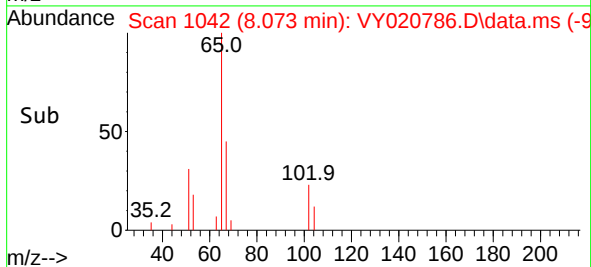
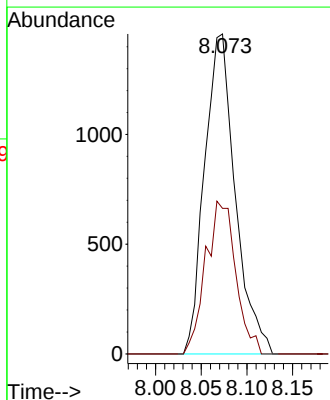
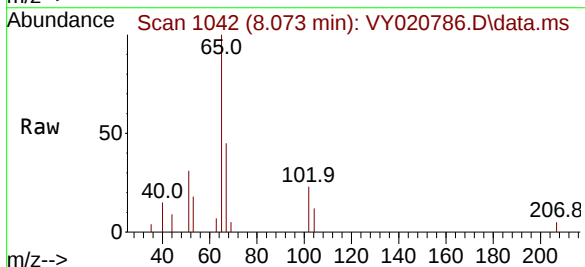


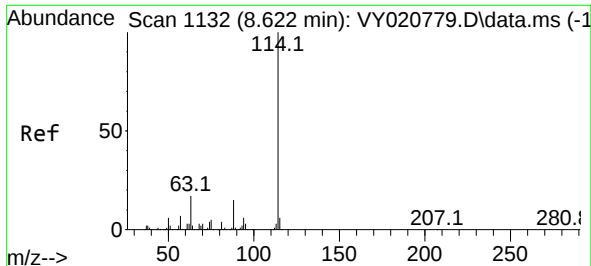
Tgt Ion: 56 Resp: 225
Ion Ratio Lower Upper
56 100
69 95.0 30.5 45.7#
84 100.6 76.6 115.0



#33
1,2-Dichloroethane-d4
Concen: 23.597 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.006 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

Tgt Ion: 65 Resp: 3400
Ion Ratio Lower Upper
65 100
67 46.8 0.0 102.8

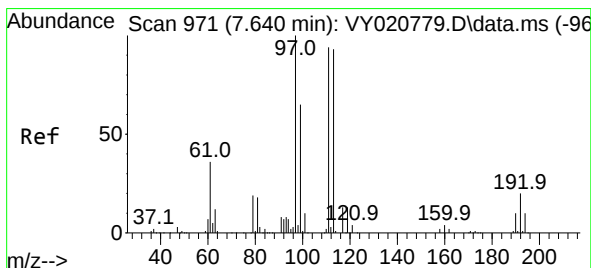
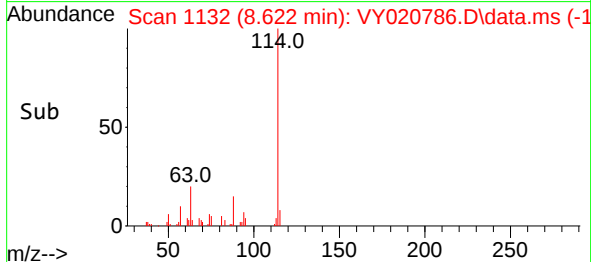
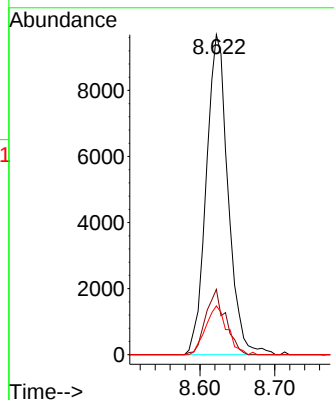
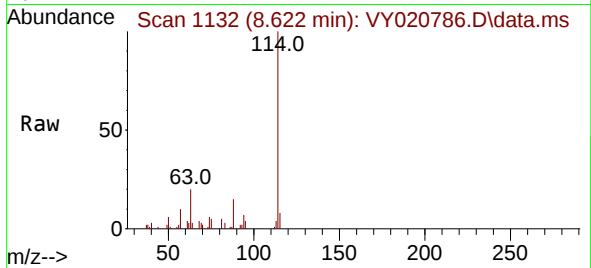




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

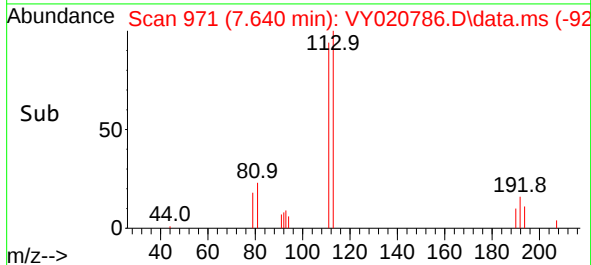
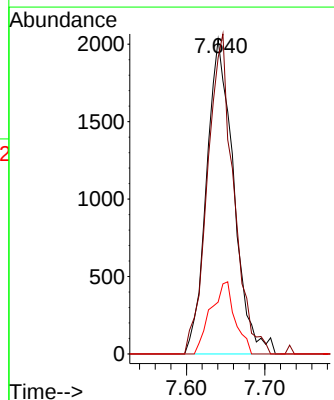
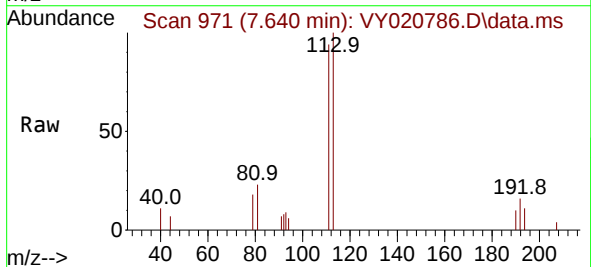
Instrument :
MSVOA_Y
ClientSampleId :

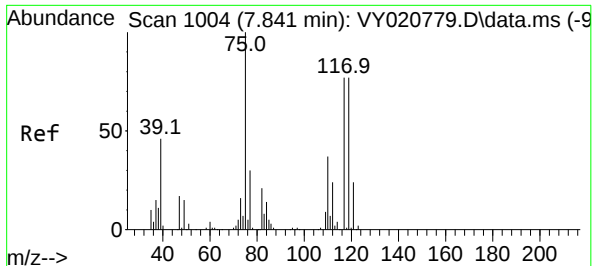
Tgt Ion:114 Resp: 19637
Ion Ratio Lower Upper
114 100
63 20.4 0.0 38.4
88 15.2 0.0 31.2



#35
Dibromofluoromethane
Concen: 39.740 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.000 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

Tgt Ion:113 Resp: 4889
Ion Ratio Lower Upper
113 100
111 97.8 81.7 122.5
192 20.5 16.7 25.1

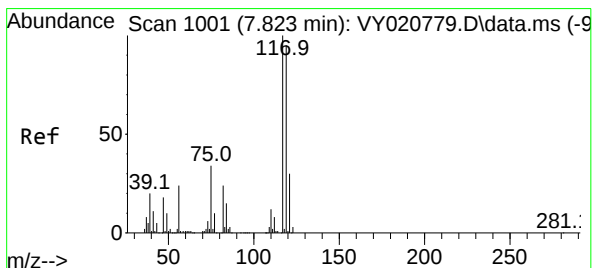
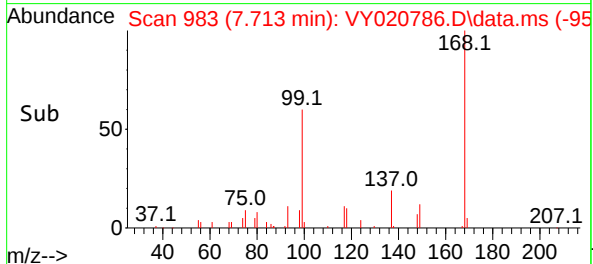
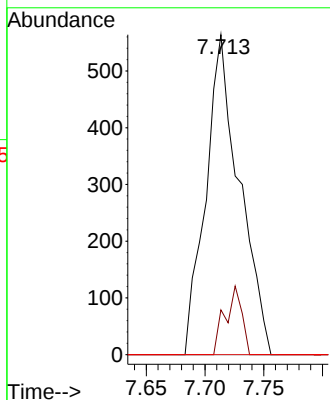
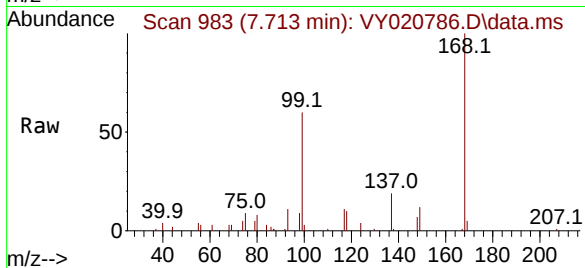




#36
 1,1-Dichloropropene
 Concen: 7.144 ug/l
 RT: 7.713 min Scan# 983
 Delta R.T. -0.128 min
 Lab File: VY020786.D
 Acq: 06 Jan 2025 16:22

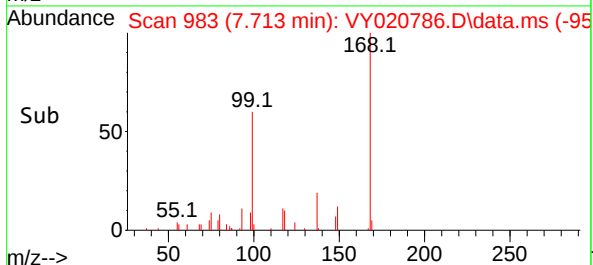
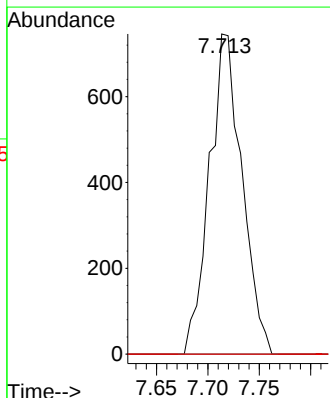
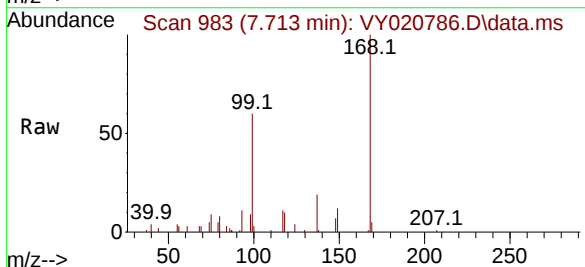
Instrument :
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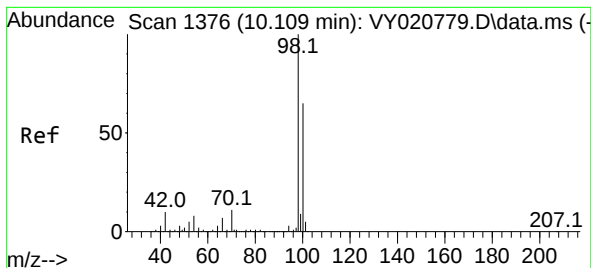
Tgt Ion: 75 Resp: 1121
 Ion Ratio Lower Upper
 75 100
 110 10.7 18.5 55.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 7.531 ug/l
 RT: 7.713 min Scan# 983
 Delta R.T. -0.110 min
 Lab File: VY020786.D
 Acq: 06 Jan 2025 16:22

Tgt Ion: 117 Resp: 1645
 Ion Ratio Lower Upper
 117 100
 119 0.0 76.5 114.7#
 121 0.0 24.3 36.5#

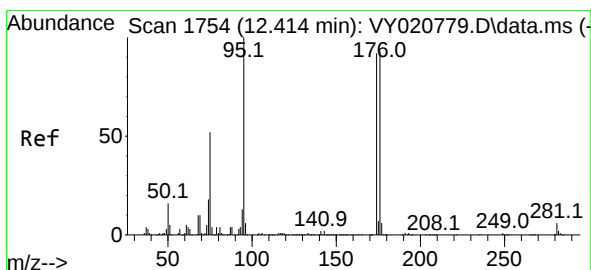
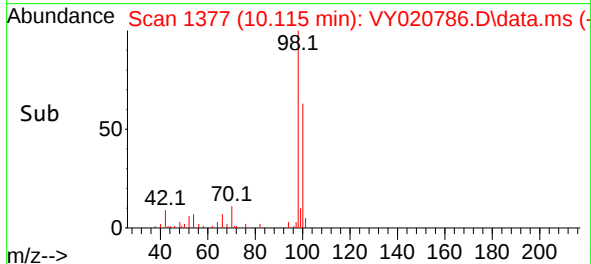
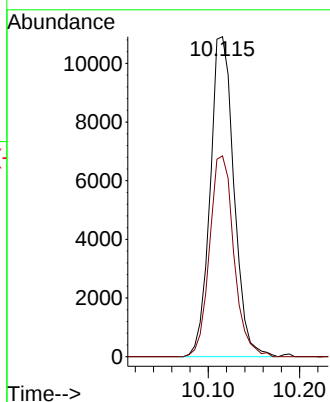
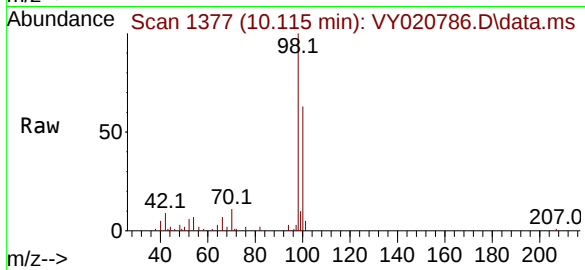




#50
Toluene-d8
Concen: 46.029 ug/l
RT: 10.115 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

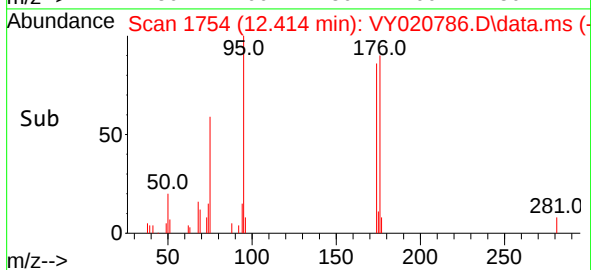
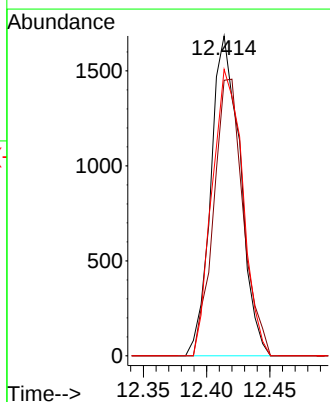
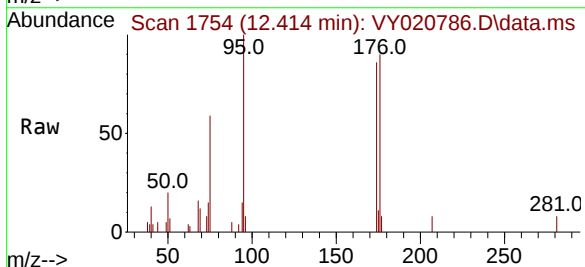
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ClientSampleId :

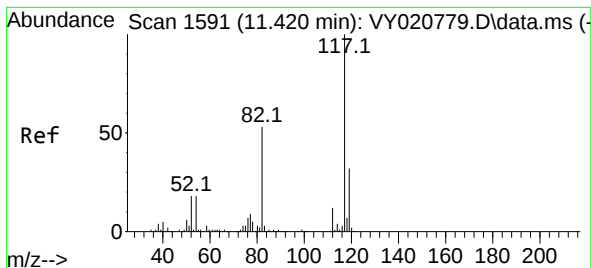
Tgt Ion: 98 Resp: 19740
Ion Ratio Lower Upper
98 100
100 64.0 52.5 78.7



#62
4-Bromofluorobenzene
Concen: 17.105 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

Tgt Ion: 95 Resp: 2709
Ion Ratio Lower Upper
95 100
174 87.3 0.0 178.0
176 93.5 0.0 172.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.426 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY020786.D

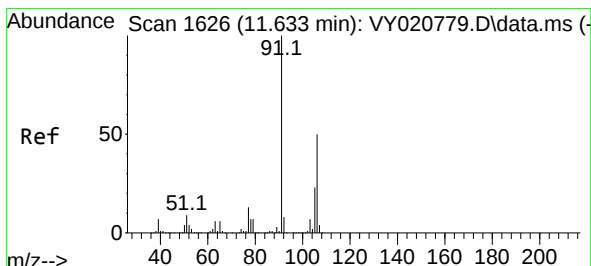
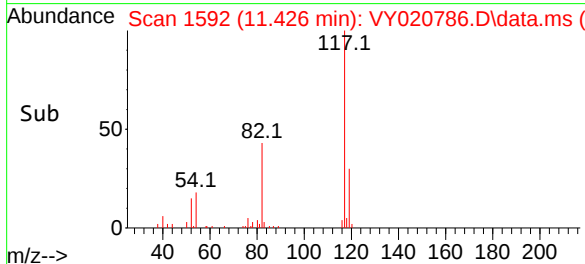
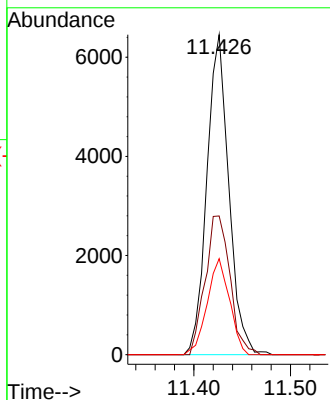
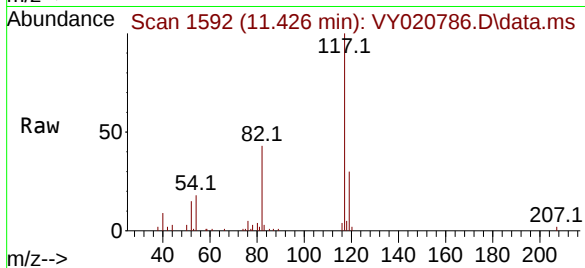
Acq: 06 Jan 2025 16:22

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:117	Resp:	10192
Ion	Ratio	Lower Upper
117	100	
82	43.4	41.8 62.6
119	30.0	25.8 38.8



#68

m/p-Xylenes

Concen: 2.956 ug/l

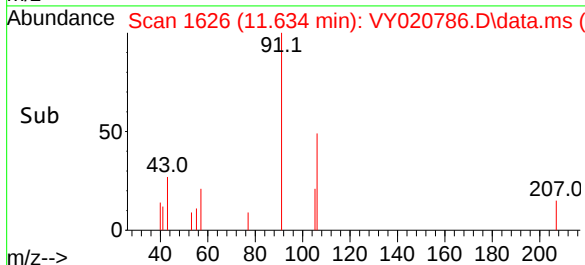
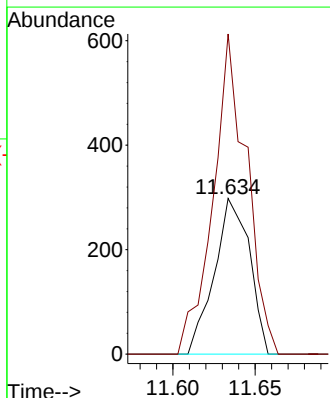
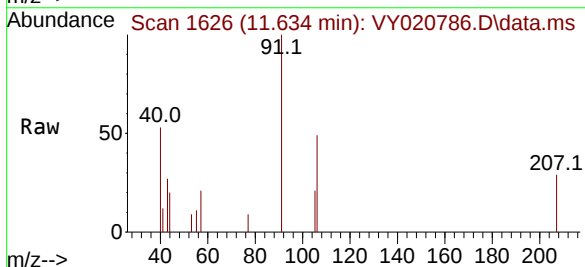
RT: 11.634 min Scan# 1626

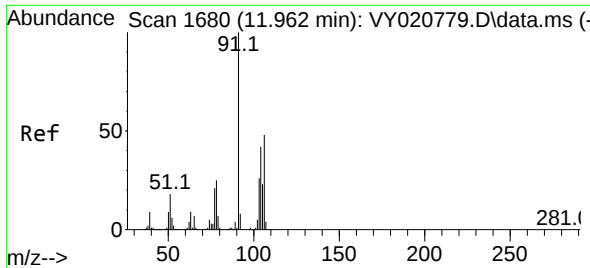
Delta R.T. 0.000 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

Tgt Ion:106	Resp:	444
Ion	Ratio	Lower Upper
106	100	
91	195.9	162.6 243.8

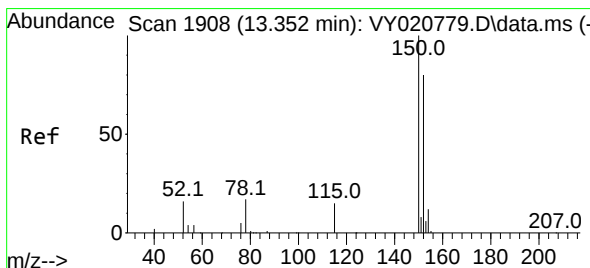
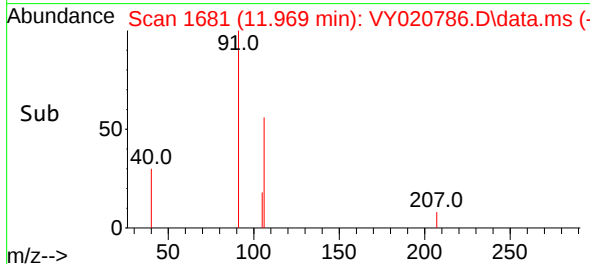
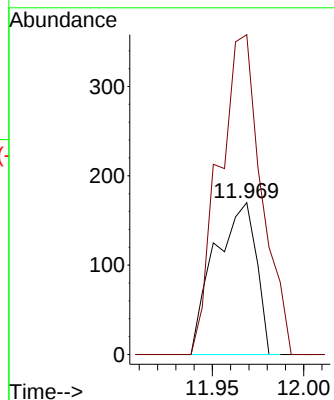
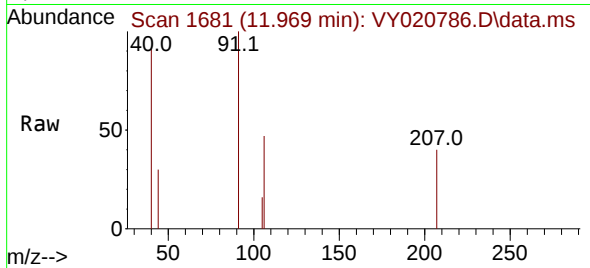




#69
o-Xylene
Concen: 1.882 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

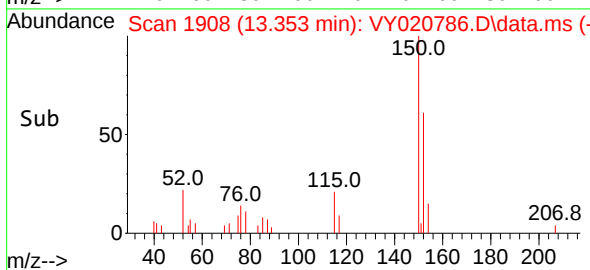
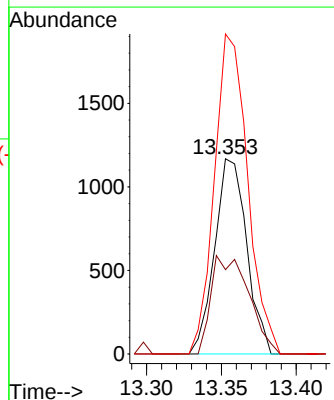
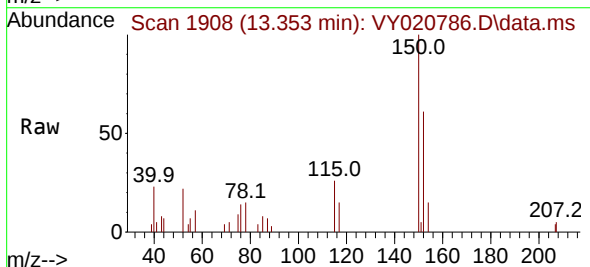
Instrument :
MSVOA_Y
ClientSampleId :

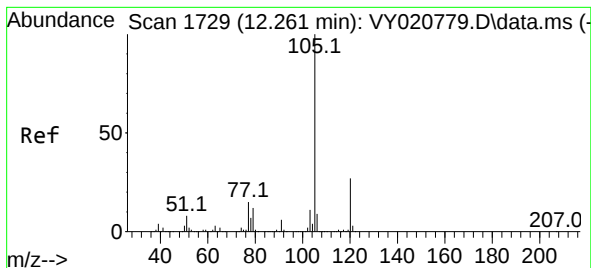
Tgt Ion:106 Resp: 268
Ion Ratio Lower Upper
106 100
91 217.2 108.2 324.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

Tgt Ion:152 Resp: 1741
Ion Ratio Lower Upper
152 100
115 59.1 29.0 87.0
150 170.0 0.0 347.4





#73

Isopropylbenzene

Concen: 3.750 ug/l

RT: 12.268 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

Instrument :

MSVOA_Y

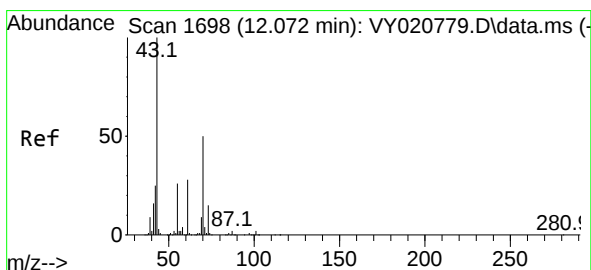
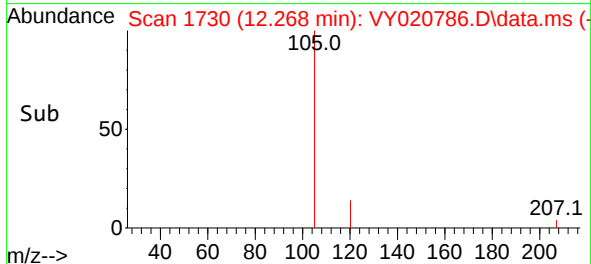
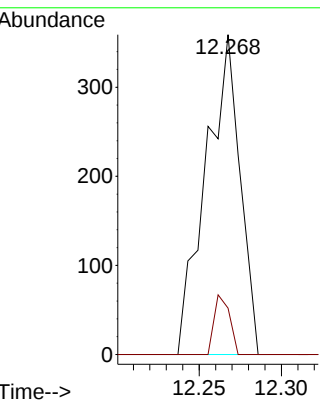
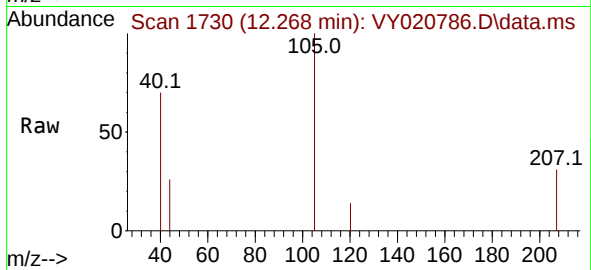
ClientSampleId :

Tgt Ion:105 Resp: 518

Ion Ratio Lower Upper

105 100

120 8.5 13.3 39.9#



#74

N-ethyl acetate

Concen: 4.869 ug/l

RT: 12.060 min Scan# 1696

Delta R.T. -0.012 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

Tgt Ion: 43 Resp: 110

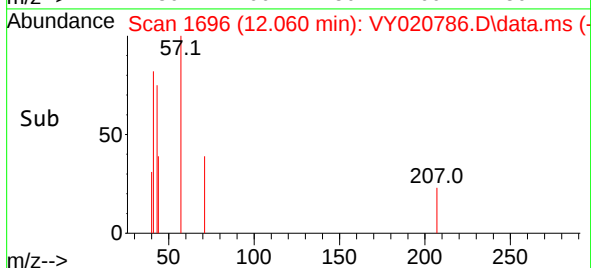
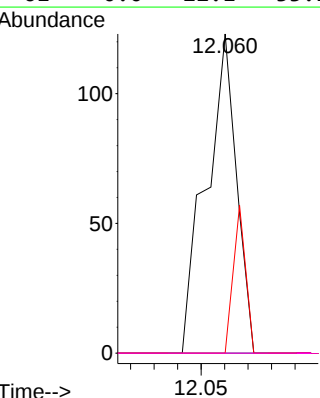
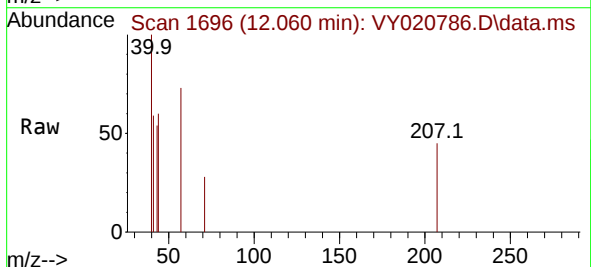
Ion Ratio Lower Upper

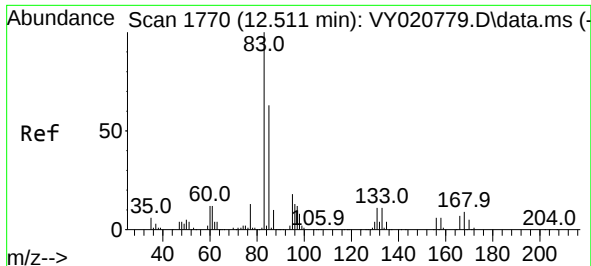
43 100

70 0.0 40.2 60.4#

55 19.1 21.2 31.8#

61 0.0 22.1 33.1#

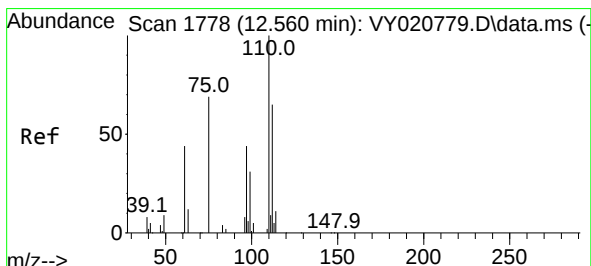
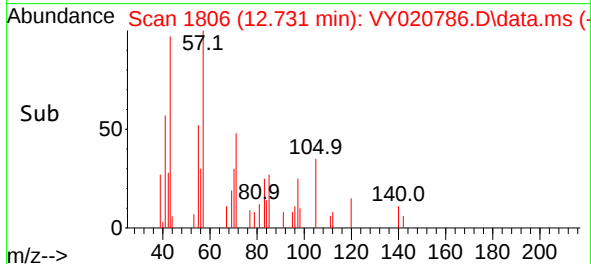
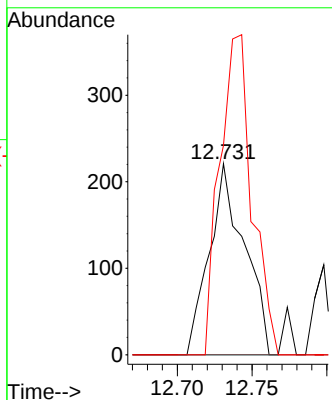
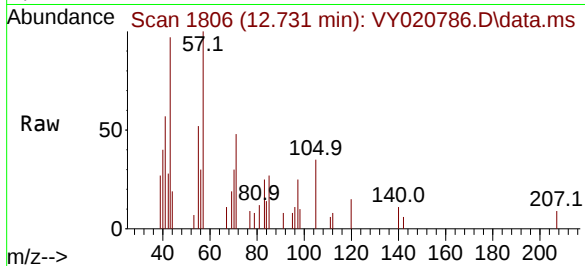




#75
 1,1,2,2-Tetrachloroethane
 Concen: 17.245 ug/l
 RT: 12.731 min Scan# 1754
 Delta R.T. 0.220 min
 Lab File: VY020786.D
 Acq: 06 Jan 2025 16:22

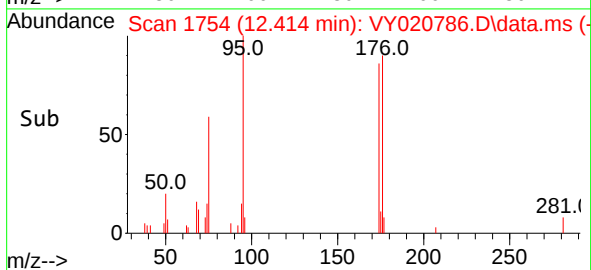
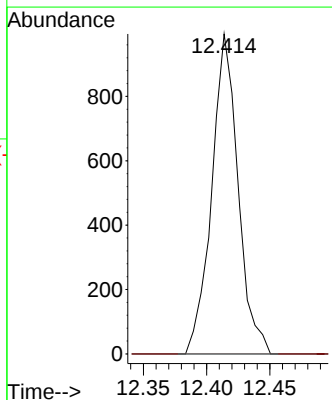
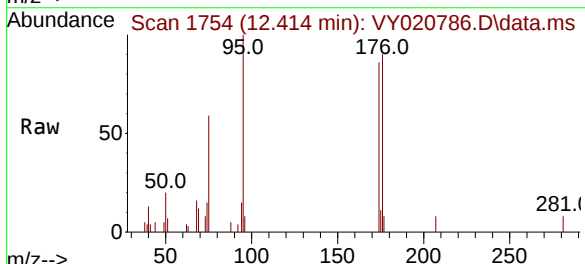
Instrument :
 MSVOA_Y
 ClientSampleId :

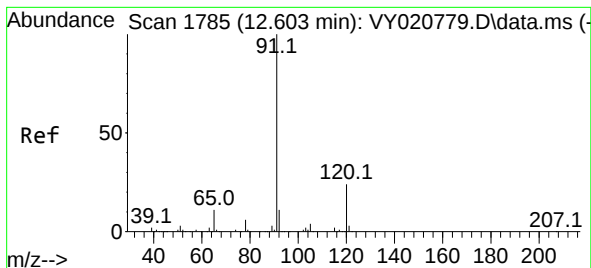
Tgt Ion: 83 Resp: 361
 Ion Ratio Lower Upper
 83 100
 131 0.0 6.0 18.0#
 85 153.7 32.0 96.2#



#76
 1,2,3-Trichloropropane
 Concen: 94.529 ug/l
 RT: 12.414 min Scan# 1754
 Delta R.T. -0.146 min
 Lab File: VY020786.D
 Acq: 06 Jan 2025 16:22

Tgt Ion: 75 Resp: 1440
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0





#78

n-propylbenzene

Concen: 6.494 ug/l

RT: 12.603 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

Instrument :

MSVOA_Y

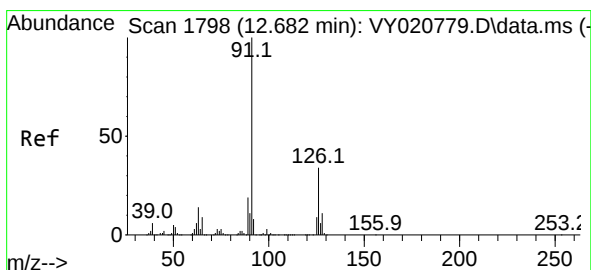
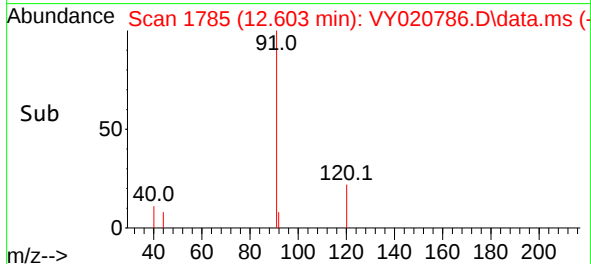
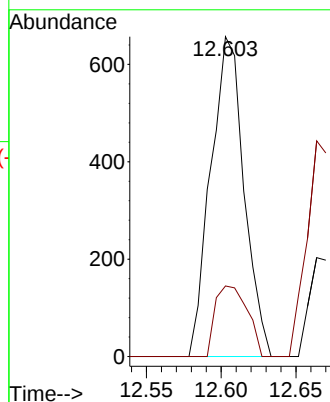
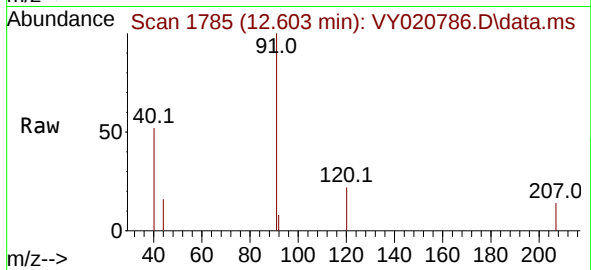
ClientSampleId :

Tgt Ion: 91 Resp: 1018

Ion Ratio Lower Upper

91 100

120 21.2 12.0 36.1



#79

2-Chlorotoluene

Concen: 6.292 ug/l

RT: 12.676 min Scan# 1797

Delta R.T. -0.006 min

Lab File: VY020786.D

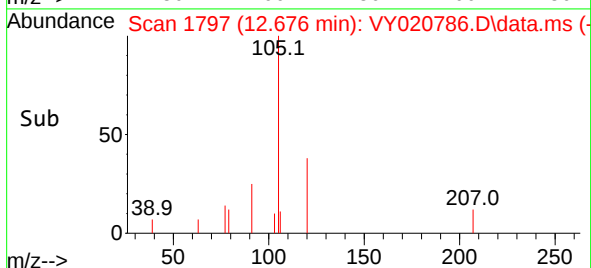
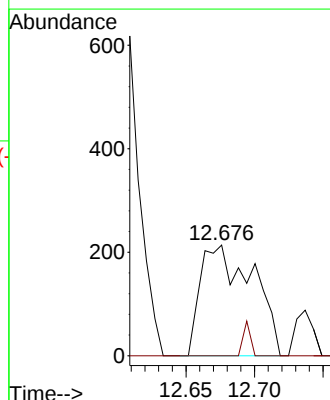
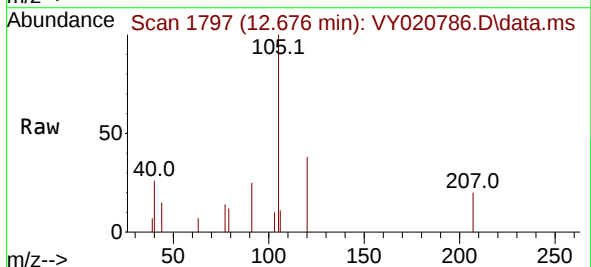
Acq: 06 Jan 2025 16:22

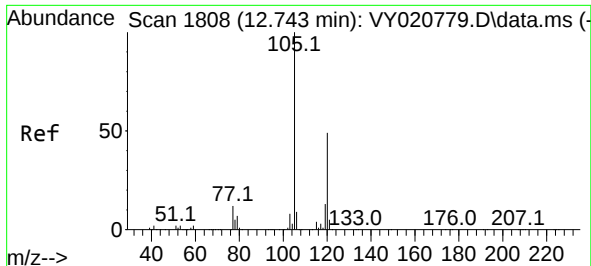
Tgt Ion: 91 Resp: 568

Ion Ratio Lower Upper

91 100

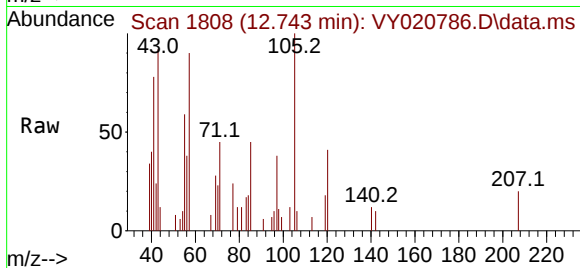
126 4.4 17.5 52.6#



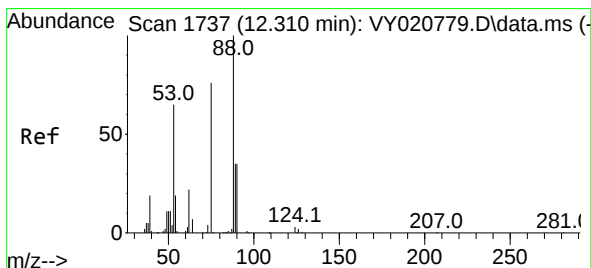
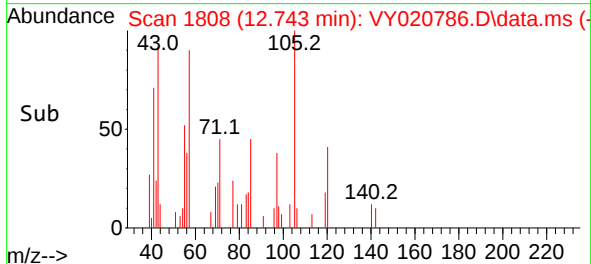
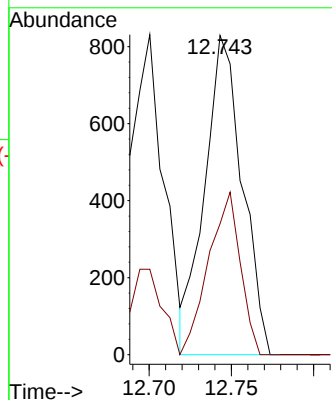


#80
 1,3,5-Trimethylbenzene
 Concen: 11.757 ug/l
 RT: 12.743 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VY020786.D
 Acq: 06 Jan 2025 16:22

Instrument :
 MSVOA_Y
 ClientSampleId :

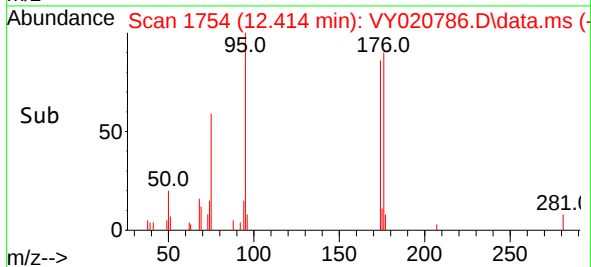
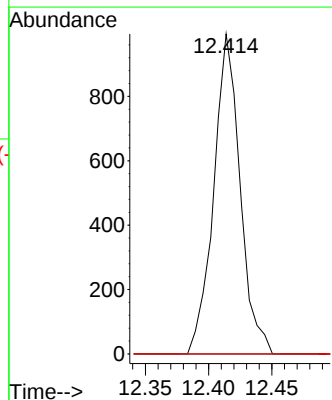
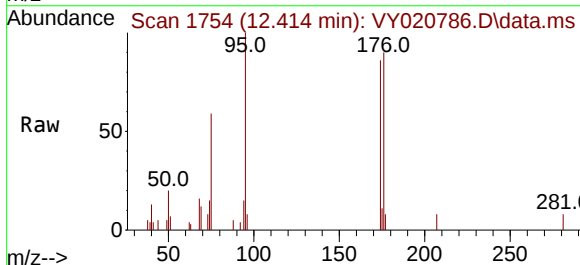


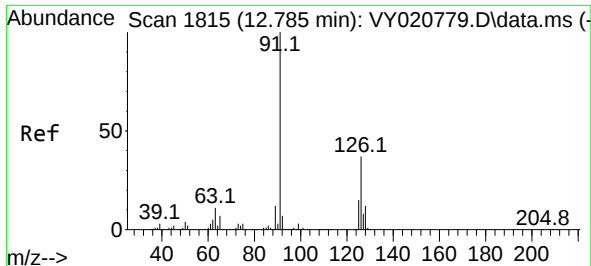
Tgt Ion:105 Resp: 1316
 Ion Ratio Lower Upper
 105 100
 120 43.1 24.5 73.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 199.318 ug/l
 RT: 12.414 min Scan# 1754
 Delta R.T. 0.104 min
 Lab File: VY020786.D
 Acq: 06 Jan 2025 16:22

Tgt Ion: 75 Resp: 1440
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.4 104.0#
 89 0.0 39.6 59.4#

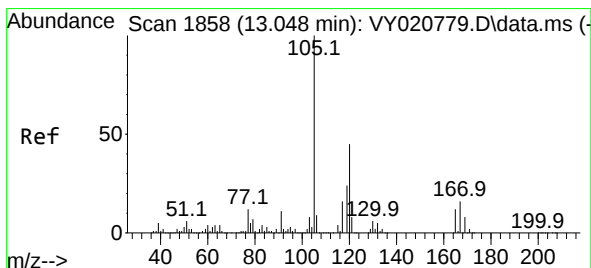
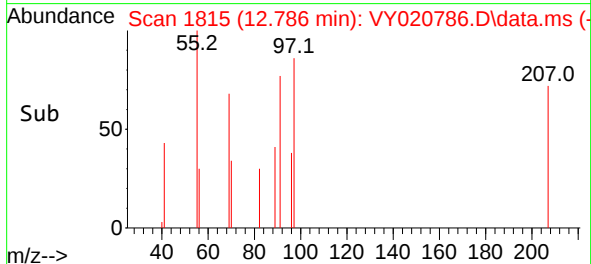
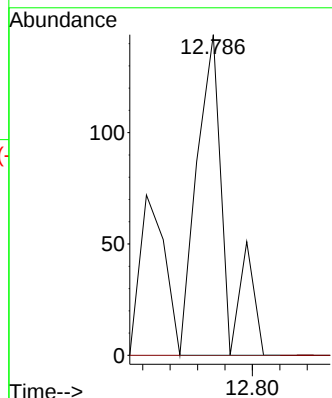
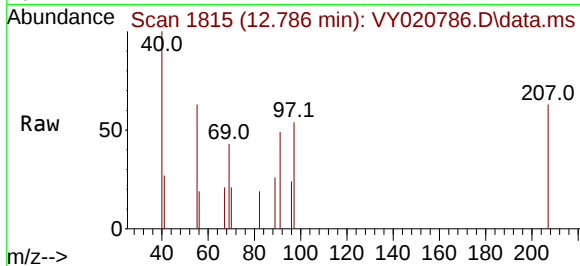




#82
4-Chlorotoluene
Concen: 1.106 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.006 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

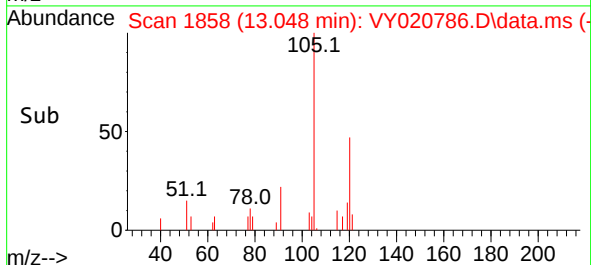
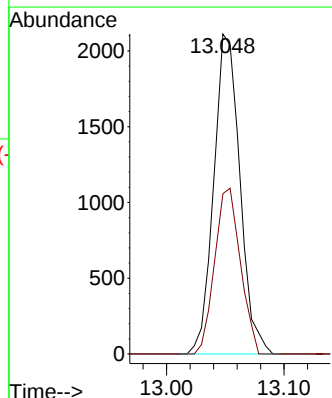
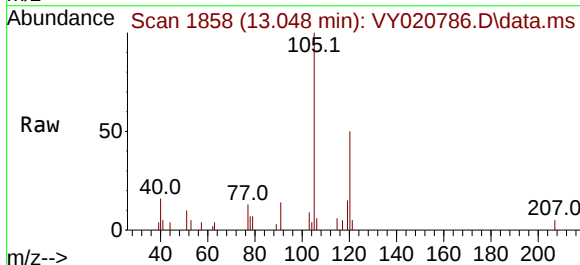
Instrument :
MSVOA_Y
ClientSampleId :

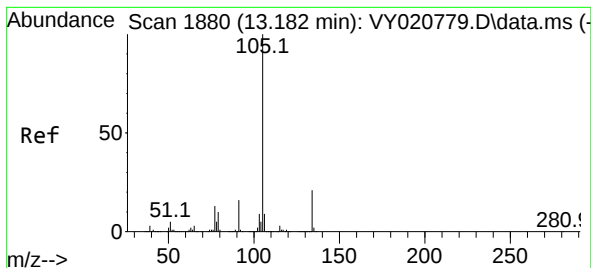
Tgt Ion: 91 Resp: 103
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.7#



#84
1,2,4-Trimethylbenzene
Concen: 29.889 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.000 min
Lab File: VY020786.D
Acq: 06 Jan 2025 16:22

Tgt Ion: 105 Resp: 3267
Ion Ratio Lower Upper
105 100
120 50.9 22.4 67.2





#85

sec-Butylbenzene

Concen: 7.392 ug/l

RT: 13.182 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

Instrument :

MSVOA_Y

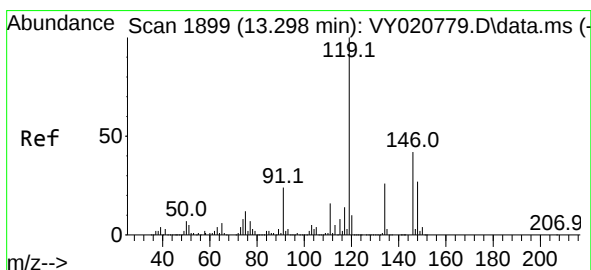
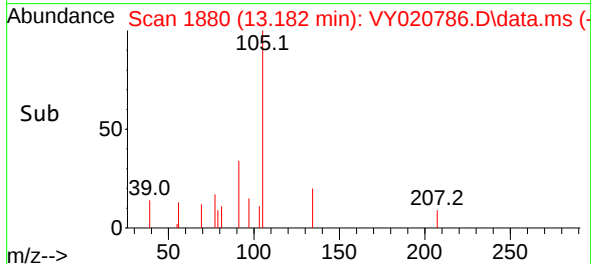
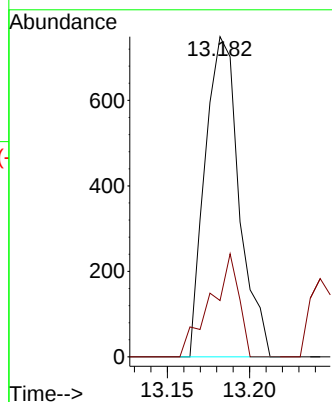
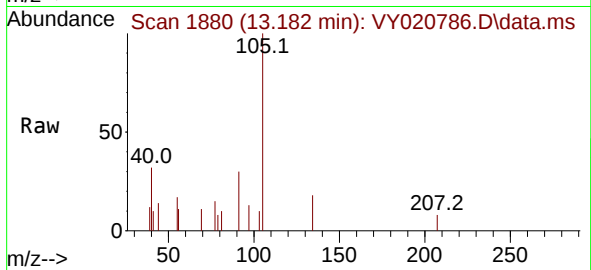
ClientSampleId :

Tgt Ion:105 Resp: 1081

Ion Ratio Lower Upper

105 100

134 26.7 10.5 31.5



#86

p-Isopropyltoluene

Concen: 5.082 ug/l

RT: 13.304 min Scan# 1900

Delta R.T. 0.006 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

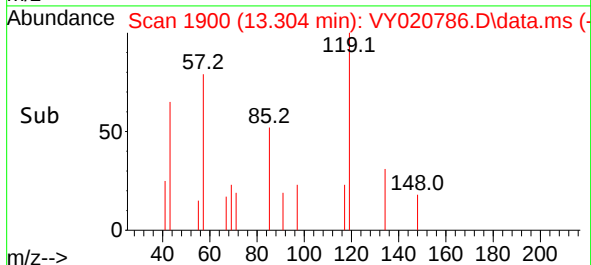
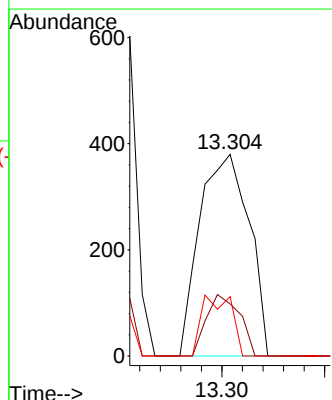
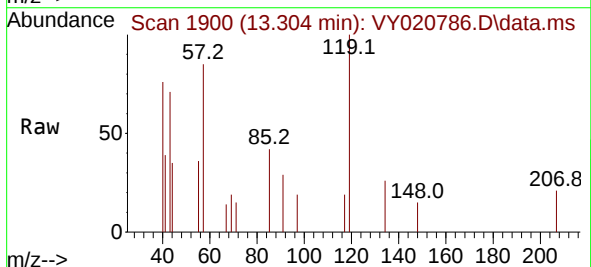
Tgt Ion:119 Resp: 634

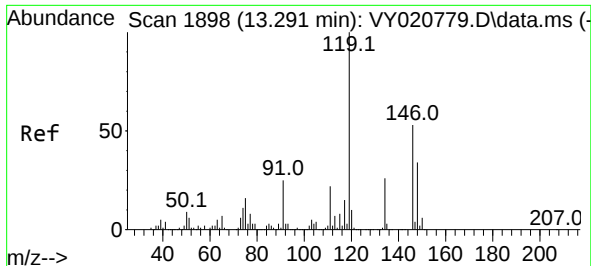
Ion Ratio Lower Upper

119 100

134 20.5 13.0 38.9

91 18.1 11.8 35.3





#87

1,3-Dichlorobenzene

Concen: 1.034 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. -0.006 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

Instrument :

MSVOA_Y

ClientSampleId :

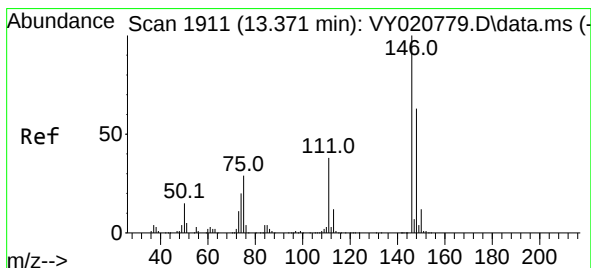
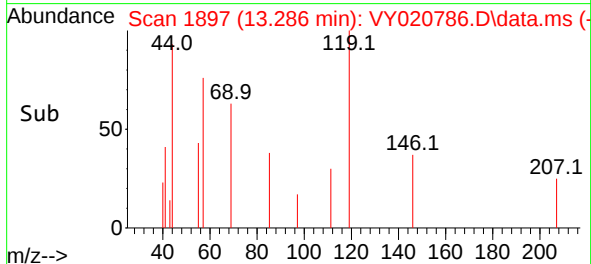
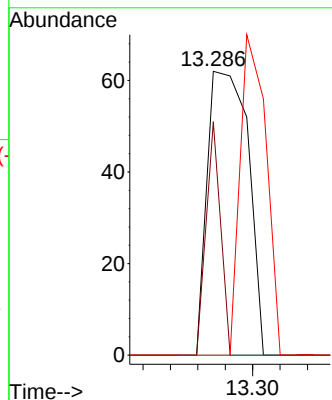
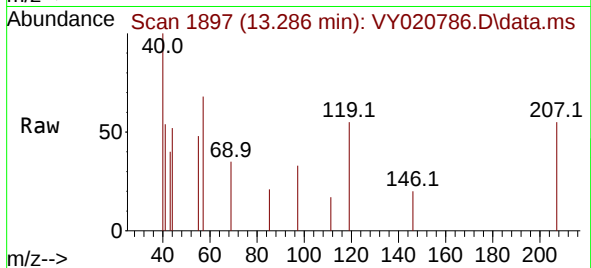
Tgt Ion:146 Resp: 64

Ion Ratio Lower Upper

146 100

111 29.7 19.5 58.5

148 71.9 31.8 95.4



#88

1,4-Dichlorobenzene

Concen: 1.051 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. -0.085 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

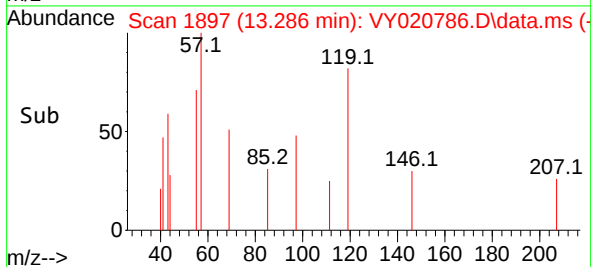
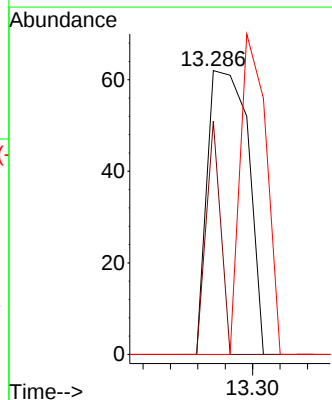
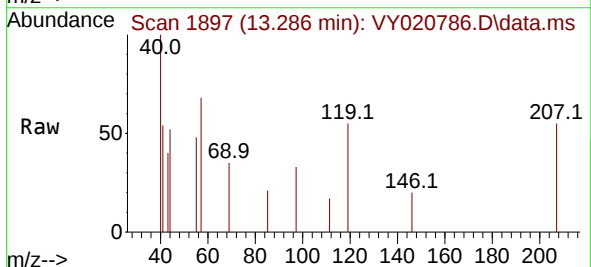
Tgt Ion:146 Resp: 64

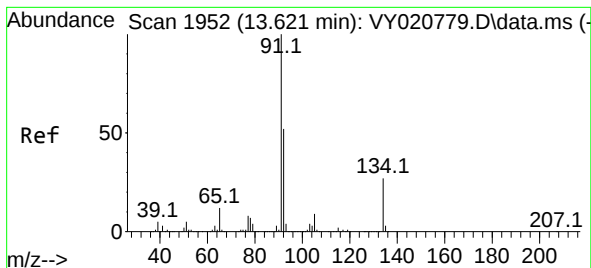
Ion Ratio Lower Upper

146 100

111 29.7 19.1 57.3

148 71.9 32.1 96.5





#89

n-Butylbenzene

Concen: 7.143 ug/l

RT: 13.627 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VY020786.D

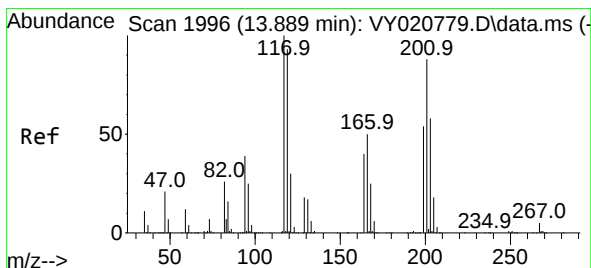
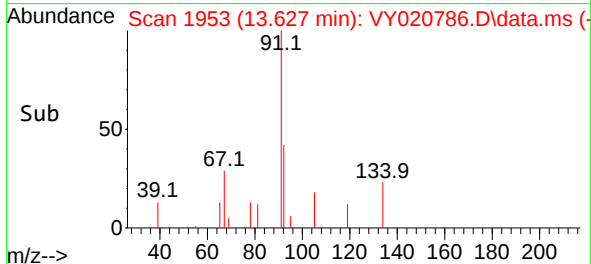
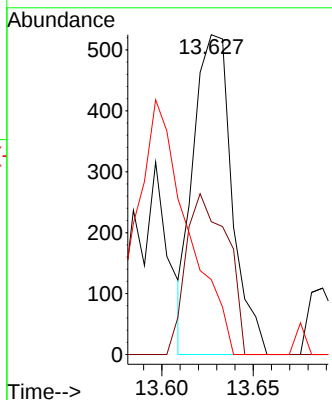
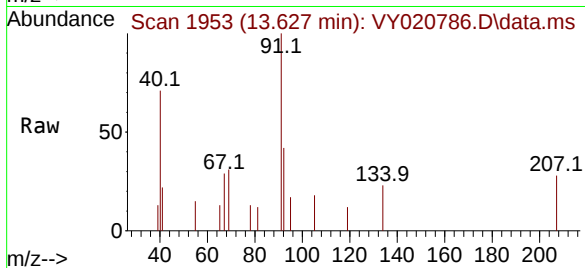
Acq: 06 Jan 2025 16:22

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 91	Resp:	773
Ion	Ratio	Lower Upper
91	100	
92	53.8	26.5 79.4
134	0.0	13.8 41.4#



#90

Hexachloroethane

Concen: 6.787 ug/l

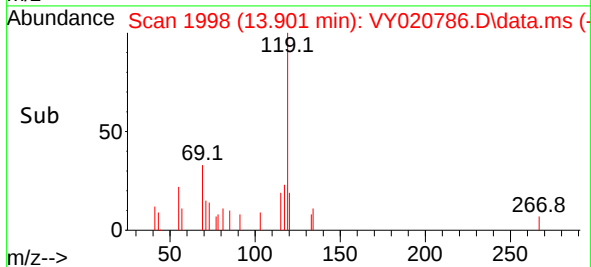
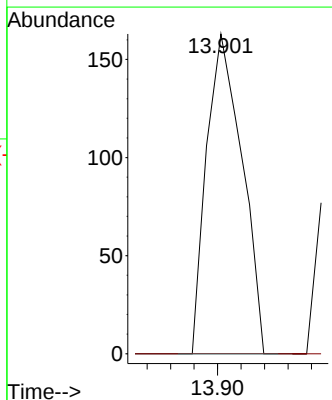
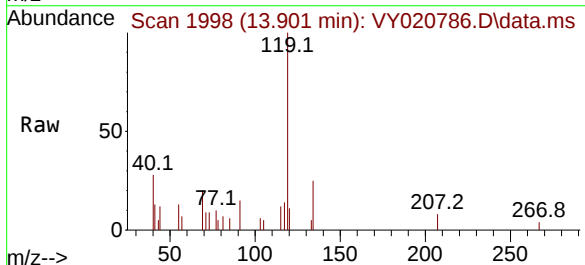
RT: 13.901 min Scan# 1998

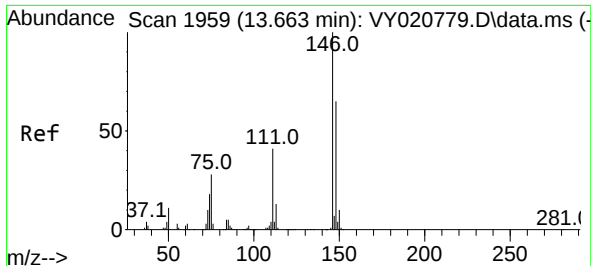
Delta R.T. 0.018 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

Tgt Ion: 117	Resp:	170
Ion	Ratio	Lower Upper
117	100	
201	0.0	42.9 128.7#





#91

1,2-Dichlorobenzene

Concen: 1.590 ug/l

RT: 13.676 min Scan# 1959

Delta R.T. 0.012 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

Instrument :

MSVOA_Y

ClientSampleId :

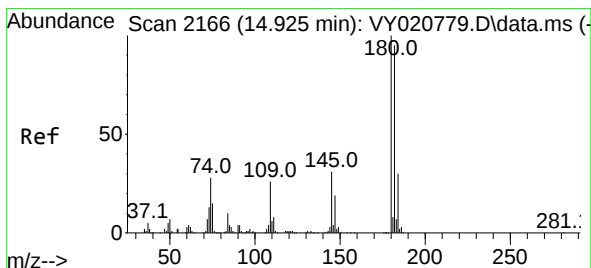
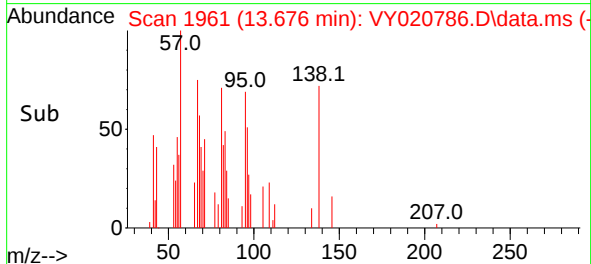
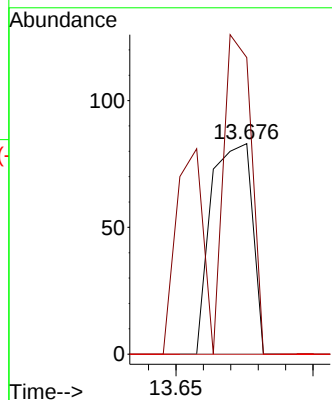
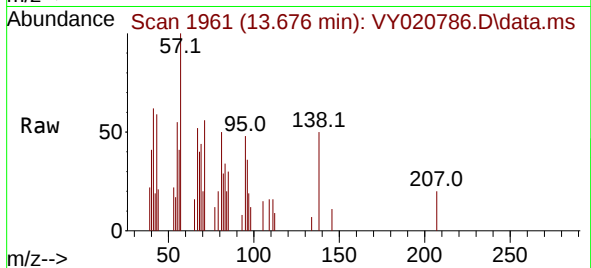
Tgt Ion:146 Resp: 86

Ion Ratio Lower Upper

146 100

111 103.5 20.0 60.0#

148 0.0 32.0 96.2#



#93

1,2,4-Trichlorobenzene

Concen: 4.208 ug/l

RT: 14.944 min Scan# 2169

Delta R.T. 0.018 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

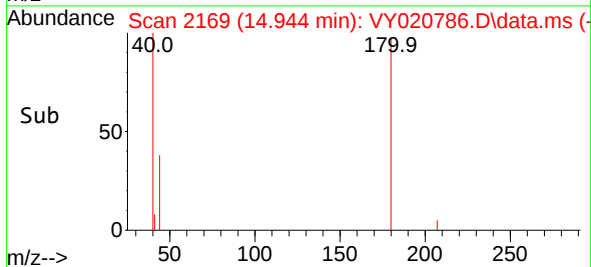
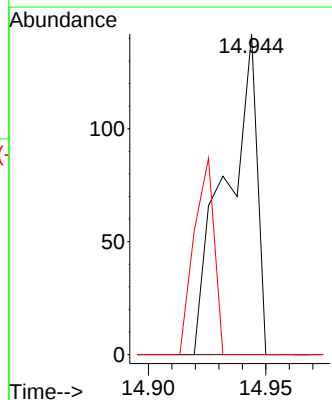
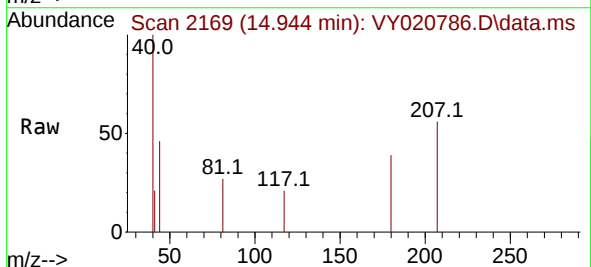
Tgt Ion:180 Resp: 131

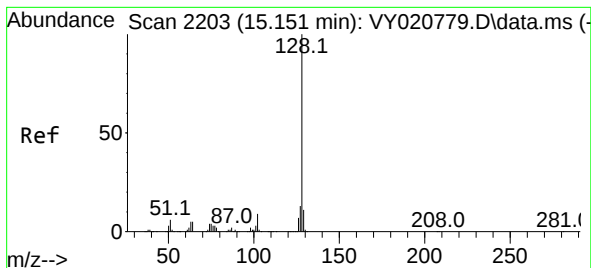
Ion Ratio Lower Upper

180 100

182 0.0 47.6 142.9#

145 39.7 15.0 45.1





#95

Naphthalene

Concen: 7.591 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. -0.006 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

Instrument :

MSVOA_Y

ClientSampleId :

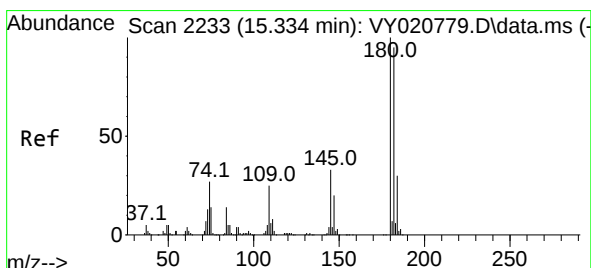
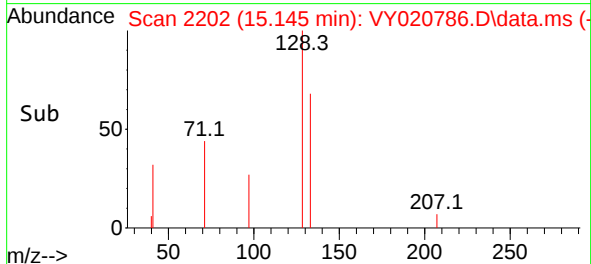
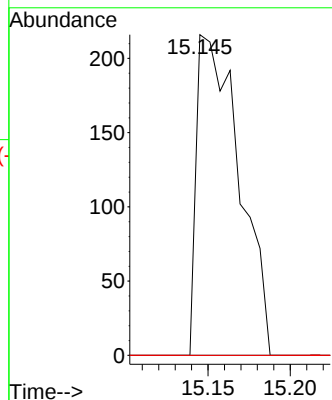
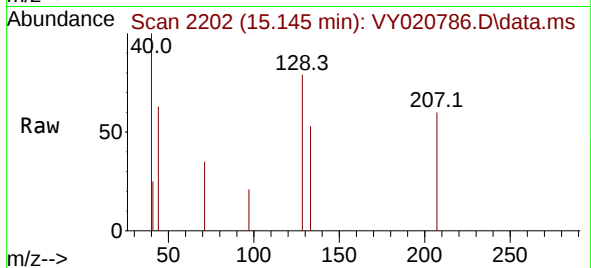
Tgt Ion:128 Resp: 389

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: 5.751 ug/l

RT: 15.340 min Scan# 2234

Delta R.T. 0.006 min

Lab File: VY020786.D

Acq: 06 Jan 2025 16:22

Tgt Ion:180 Resp: 150

Ion Ratio Lower Upper

180 100

182 39.3 48.1 144.3#

145 0.0 16.1 48.2#

