

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020625\
 Data File : VY021118.D
 Acq On : 06 Feb 2025 17:55
 Operator : SY/MD
 Sample : Q1285-01
 Misc : 4.33g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

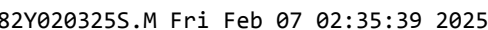
Quant Time: Feb 07 02:35:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

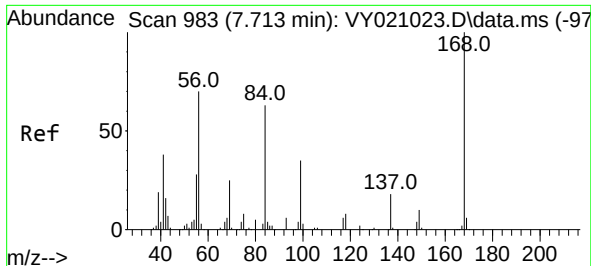
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.713	168	203379	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	374801	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	353089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	142006	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	122132	58.611	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 117.220%			
35) Dibromofluoromethane	7.640	113	124481	51.824	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.640%			
50) Toluene-d8	10.109	98	450943	49.313	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.620%			
62) 4-Bromofluorobenzene	12.408	95	157611	52.758	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 105.520%			
Target Compounds					Qvalue	
16) Acetone	3.866	43	5684	17.491	ug/l	92
17) Carbon Disulfide	4.116	76	10378	1.707	ug/l #	94
25) 2-Butanone	6.902	43	1768	3.311	ug/l #	74
29) Tetrahydrofuran	7.268	42	401	1.110	ug/l #	42
31) Cyclohexane	7.707	56	4806	1.352	ug/l #	14
36) 1,1-Dichloropropene	7.713	75	16230	4.562	ug/l #	51
38) Carbon Tetrachloride	7.713	117	21170	5.093	ug/l #	17
59) 2-Hexanone	10.725	43	1273	1.268	ug/l #	23
67) Ethyl Benzene	11.524	91	47521	3.417	ug/l	97
68) m/p-Xylenes	11.633	106	252970	48.627	ug/l	98
69) o-Xylene	11.956	106	256703	52.927	ug/l	97
70) Styrene	11.956	104	15235	1.885	ug/l #	1
73) Isopropylbenzene	12.261	105	133213	12.009	ug/l	100
74) N-amyl acetate	12.054	43	5655	2.332	ug/l #	56
76) 1,2,3-Trichloropropane	12.664	75	18032	13.998	ug/l #	100
78) n-propylbenzene	12.597	91	15557	1.177	ug/l #	54
79) 2-Chlorotoluene	12.694	91	126518	16.717	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.743	105	526567	58.549	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.408	75	88056	139.482	ug/l #	12
82) 4-Chlorotoluene	12.737	91	58654	7.607	ug/l #	41
83) tert-Butylbenzene	13.048	119	173307	21.200	ug/l #	54
84) 1,2,4-Trimethylbenzene	13.048	105	1466896	166.813	ug/l	99
85) sec-Butylbenzene	13.048	105	1466896	124.658	ug/l #	57
86) p-Isopropyltoluene	13.298	119	98764	10.104	ug/l #	77
89) n-Butylbenzene	13.554	91	1379740	154.724	ug/l #	43
90) Hexachloroethane	13.895	117	79890	39.177	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.261	75	3633	13.178	ug/l #	1
95) Naphthalene	15.151	128	14484602	3791.436	ug/l #	93

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

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Response via : Initial Calibration

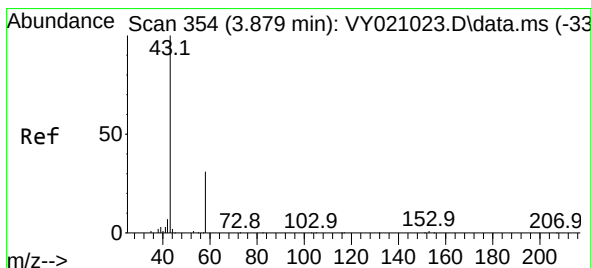
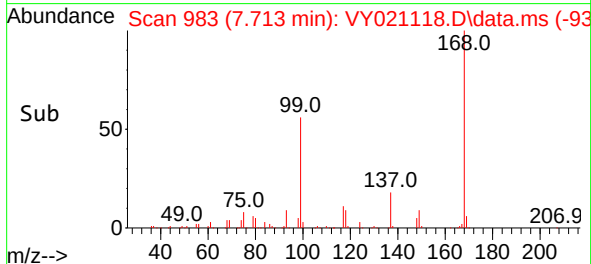
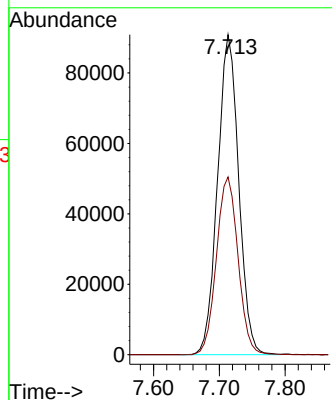
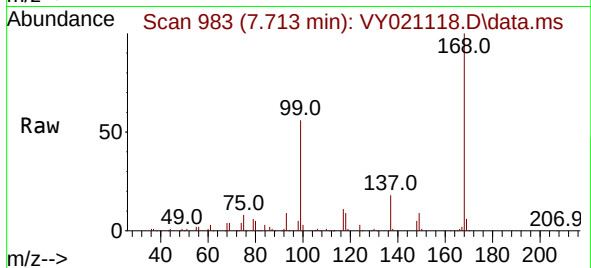




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

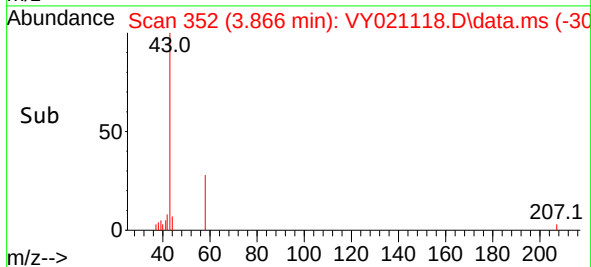
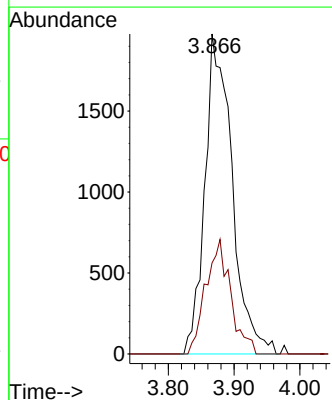
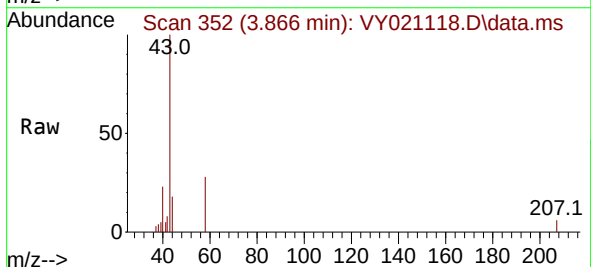
Instrument :
MSVOA_Y
ClientSampleId :

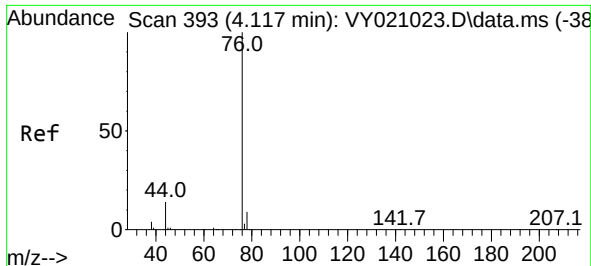
Tgt Ion:168 Resp: 203379
Ion Ratio Lower Upper
168 100
99 55.5 44.2 66.4



#16
Acetone
Concen: 17.491 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

Tgt Ion: 43 Resp: 5684
Ion Ratio Lower Upper
43 100
58 28.4 26.6 39.8

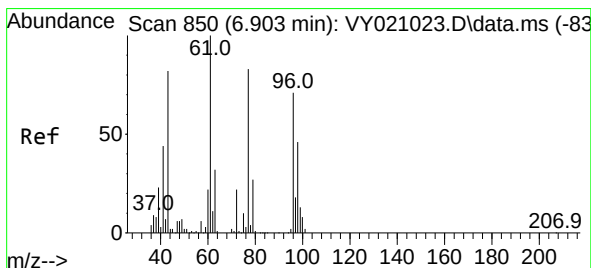
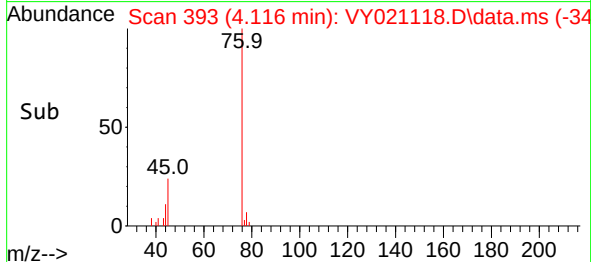
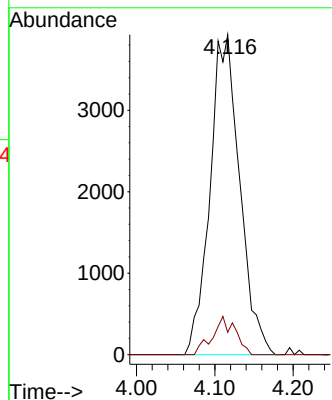
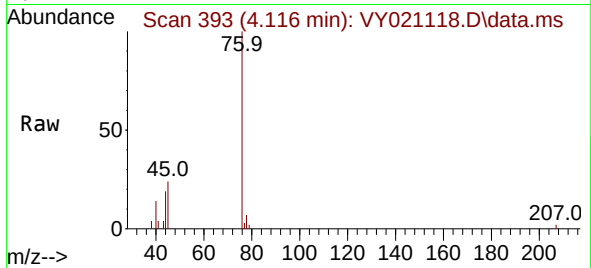




#17
Carbon Disulfide
Concen: 1.707 ug/l
RT: 4.116 min Scan# 393
Delta R.T. -0.000 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

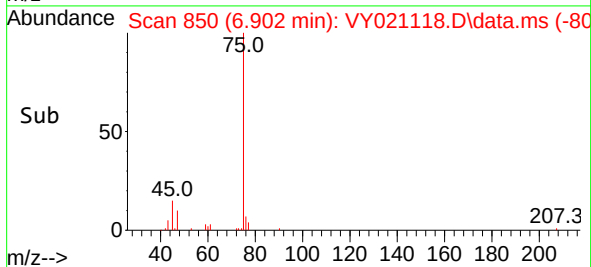
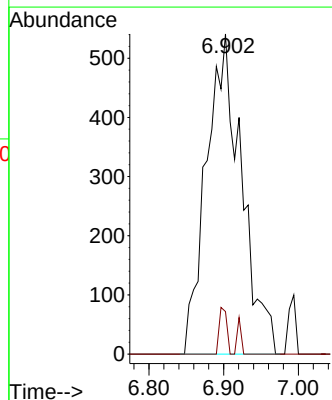
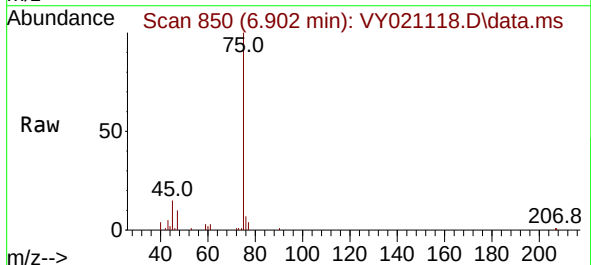
Instrument :
MSVOA_Y
ClientSampleId :

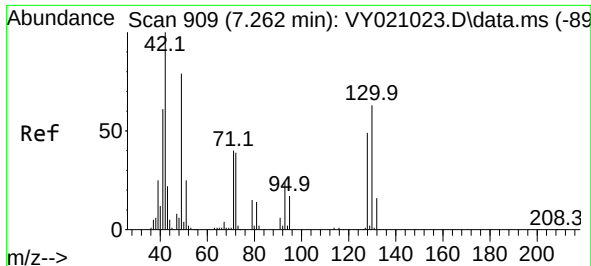
Tgt Ion: 76 Resp: 10378
Ion Ratio Lower Upper
76 100
78 7.0 7.4 11.0#



#25
2-Butanone
Concen: 3.311 ug/l
RT: 6.902 min Scan# 850
Delta R.T. -0.000 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

Tgt Ion: 43 Resp: 1768
Ion Ratio Lower Upper
43 100
72 13.3 21.4 32.2#





#29

Tetrahydrofuran

Concen: 1.110 ug/l

RT: 7.268 min Scan# 910

Delta R.T. 0.006 min

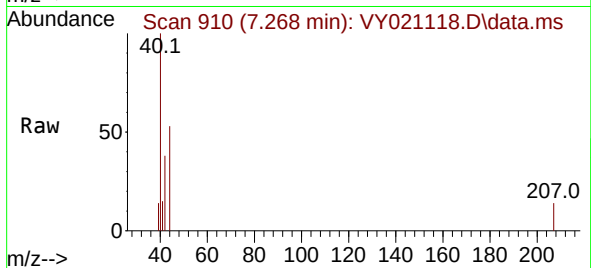
Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

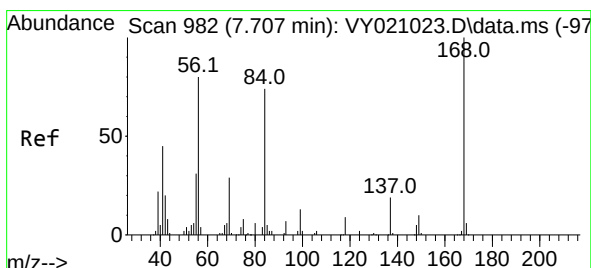
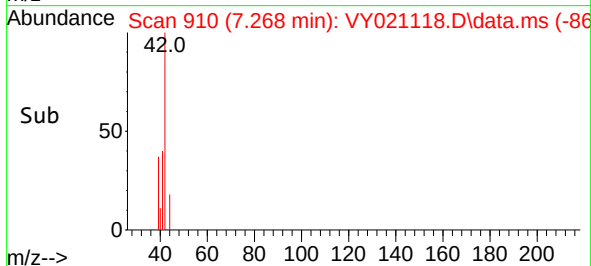
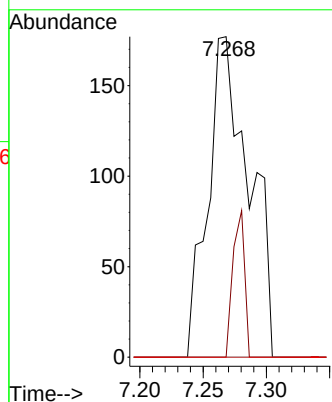
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 42	Resp: 401
Ion Ratio	Lower Upper
42	100
72	13.0 36.6 54.8#
71	0.0 33.8 50.6#



#31

Cyclohexane

Concen: 1.352 ug/l

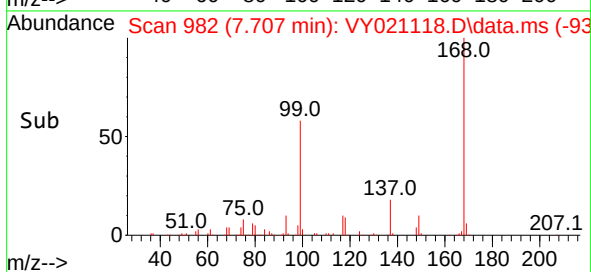
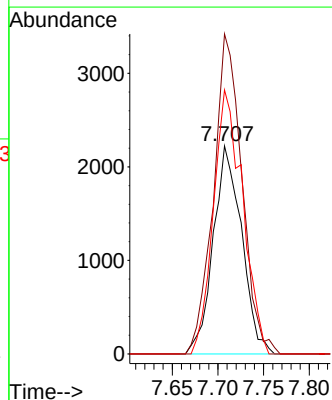
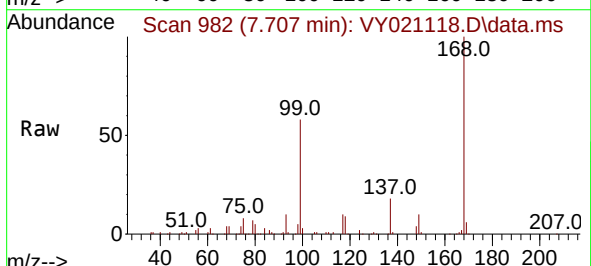
RT: 7.707 min Scan# 982

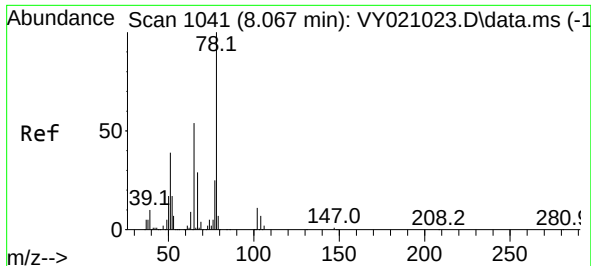
Delta R.T. -0.000 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

Tgt Ion: 56	Resp: 4806
Ion Ratio	Lower Upper
56	100
69	153.8 27.0 40.6#
84	126.9 71.8 107.6#





#33

1,2-Dichloroethane-d4

Concen: 58.611 ug/l

RT: 8.067 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

Instrument :

MSVOA_Y

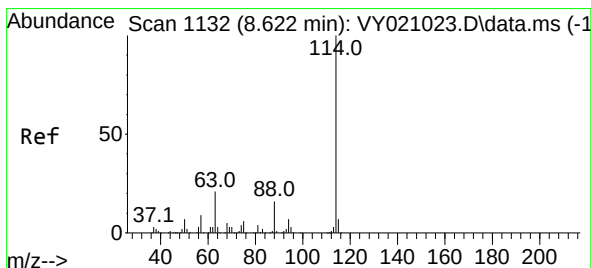
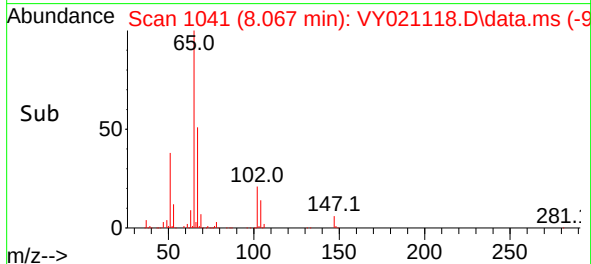
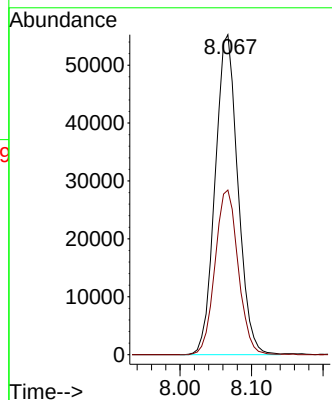
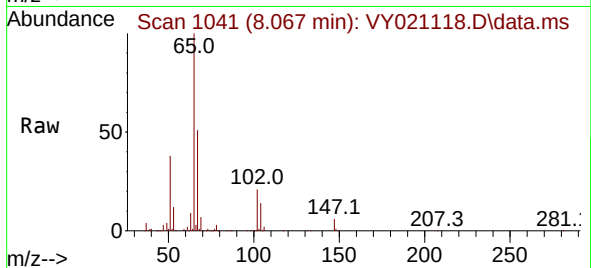
ClientSampleId :

Tgt Ion: 65 Resp: 122132

Ion Ratio Lower Upper

65 100

67 52.4 0.0 109.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

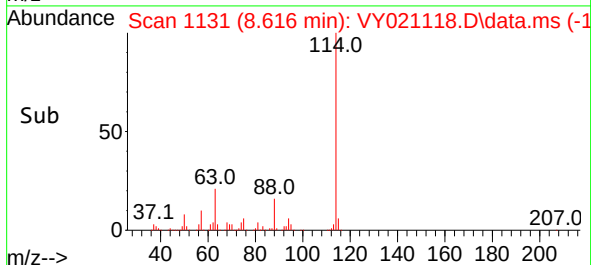
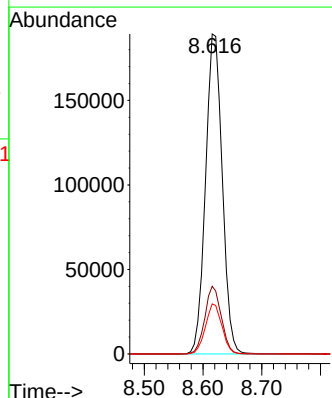
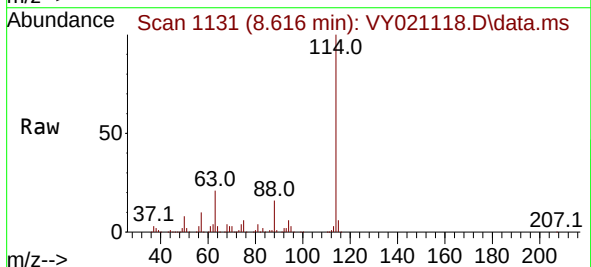
Tgt Ion:114 Resp: 374801

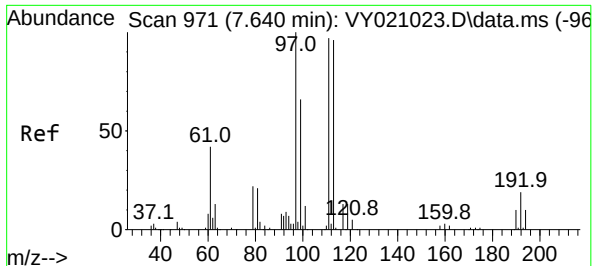
Ion Ratio Lower Upper

114 100

63 21.2 0.0 37.4

88 15.7 0.0 29.0





#35

Dibromofluoromethane

Concen: 51.824 ug/l

RT: 7.640 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

Instrument :

MSVOA_Y

ClientSampleId :

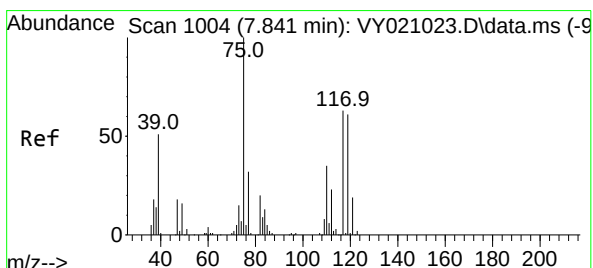
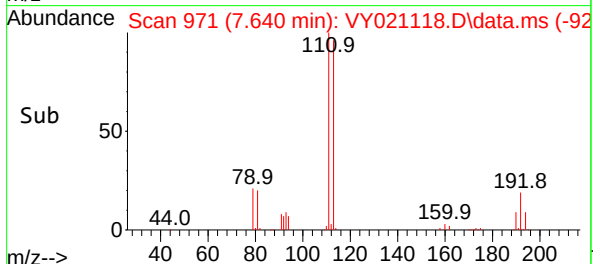
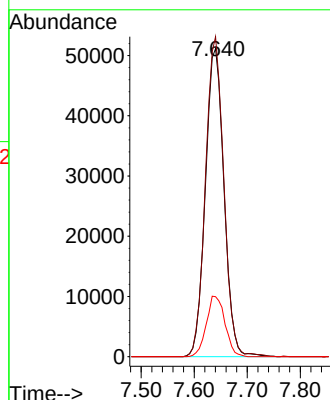
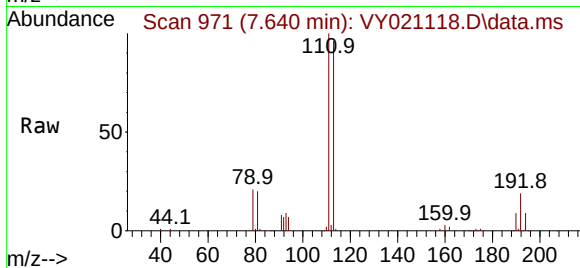
Tgt Ion:113 Resp: 124481

Ion Ratio Lower Upper

113 100

111 102.4 83.8 125.6

192 19.8 14.5 21.7



#36

1,1-Dichloropropene

Concen: 4.562 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.128 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

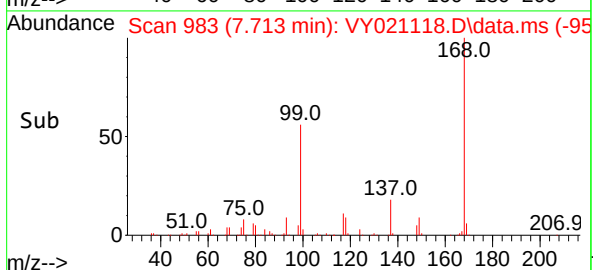
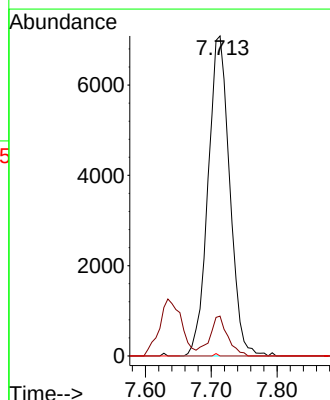
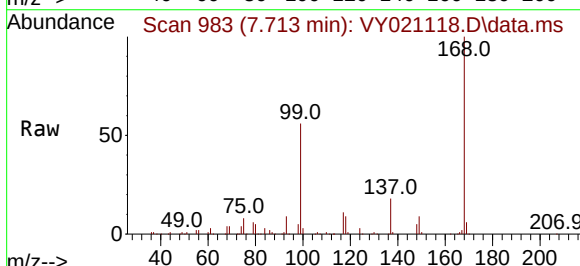
Tgt Ion: 75 Resp: 16230

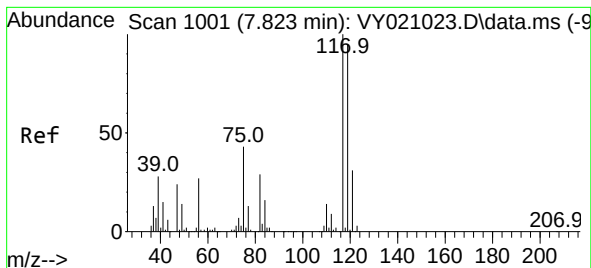
Ion Ratio Lower Upper

75 100

110 10.3 17.4 52.3#

77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.093 ug/l

RT: 7.713 min Scan# 91

Delta R.T. -0.110 min

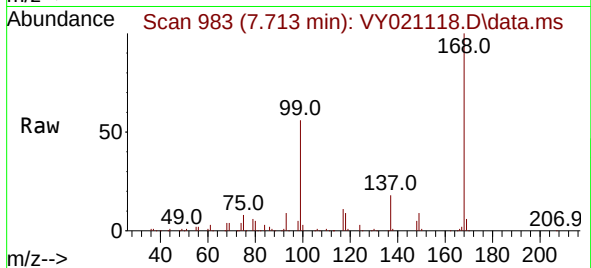
Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

Instrument :

MSVOA_Y

ClientSampleId :



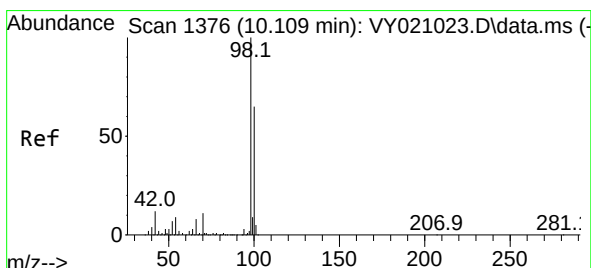
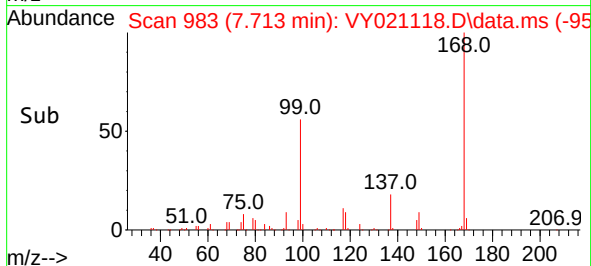
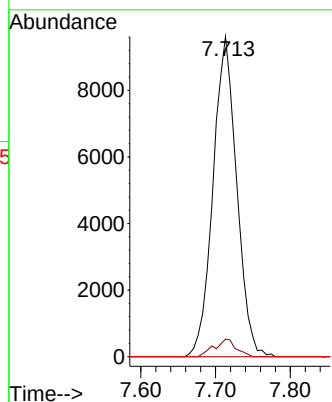
Tgt Ion:117 Resp: 21170

Ion Ratio Lower Upper

117 100

119 5.5 76.0 114.0#

121 0.0 24.2 36.2#



#50

Toluene-d8

Concen: 49.313 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021118.D

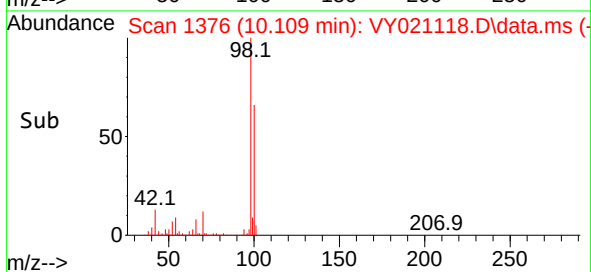
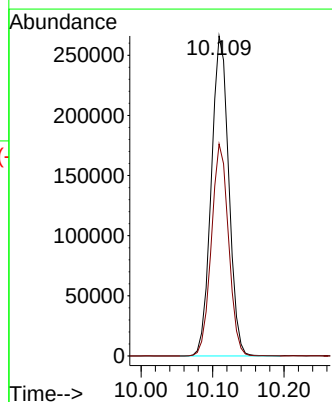
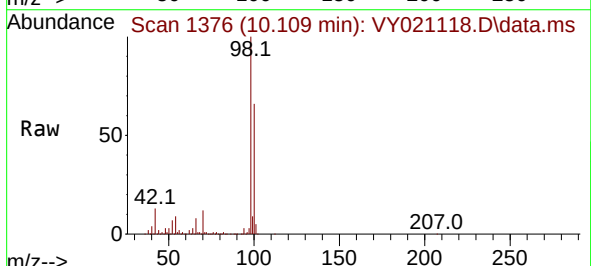
Acq: 06 Feb 2025 17:55

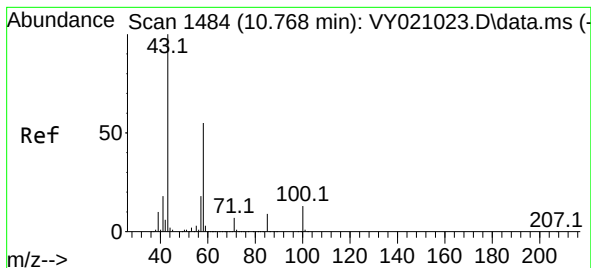
Tgt Ion: 98 Resp: 450943

Ion Ratio Lower Upper

98 100

100 65.2 52.3 78.5

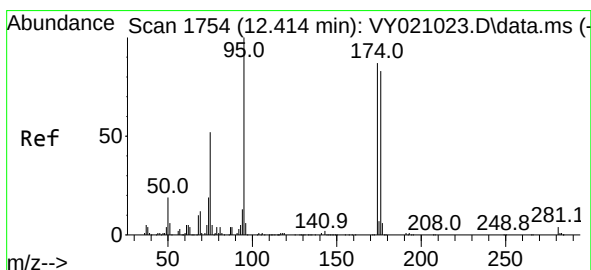
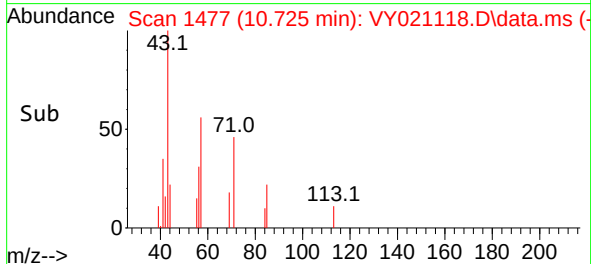
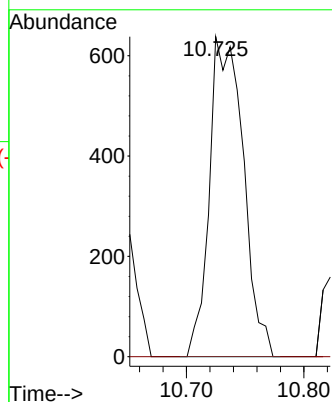
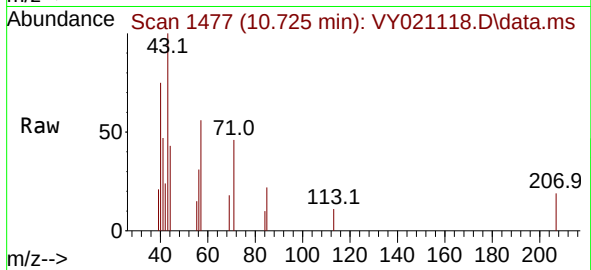




#59
2-Hexanone
Concen: 1.268 ug/l
RT: 10.725 min Scan# 1484
Delta R.T. -0.043 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

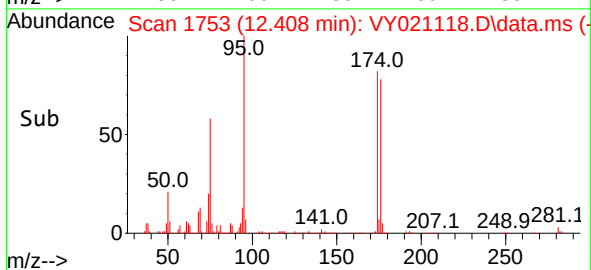
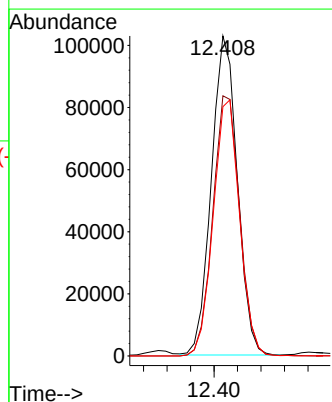
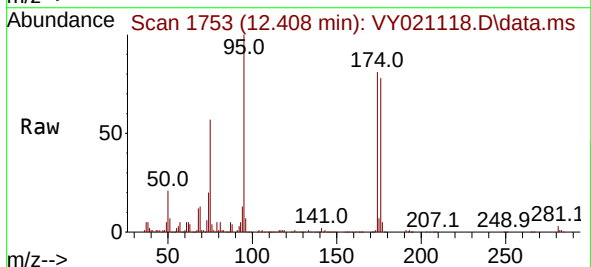
Instrument :
MSVOA_Y
ClientSampleId :

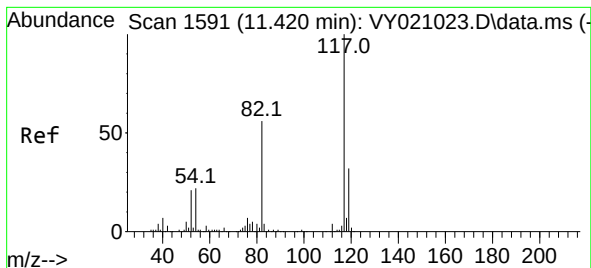
Tgt Ion: 43 Resp: 1273
Ion Ratio Lower Upper
43 100
58 0.0 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 52.758 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

Tgt Ion: 95 Resp: 157611
Ion Ratio Lower Upper
95 100
174 84.5 0.0 160.0
176 81.5 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. -0.000 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

Instrument :

MSVOA_Y

ClientSampleId :

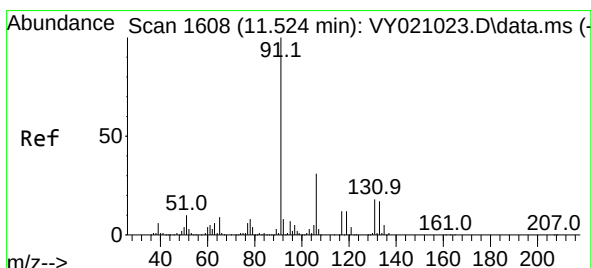
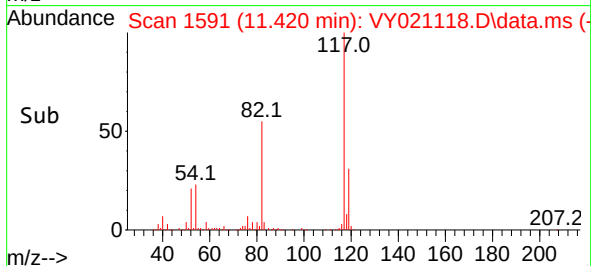
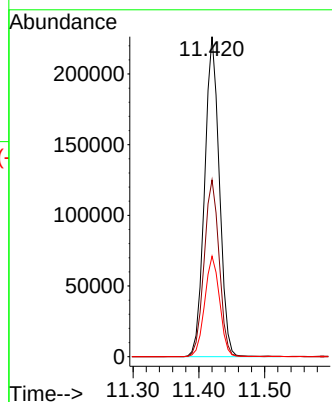
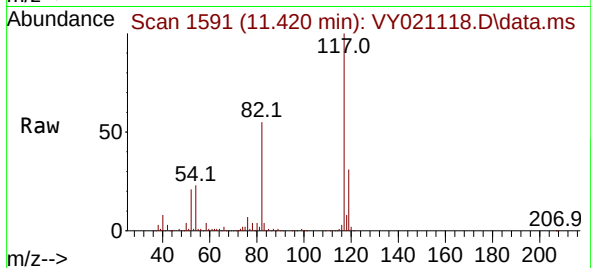
Tgt Ion:117 Resp: 353089

Ion Ratio Lower Upper

117 100

82 55.2 43.8 65.8

119 31.4 26.5 39.7



#67

Ethyl Benzene

Concen: 3.417 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. -0.000 min

Lab File: VY021118.D

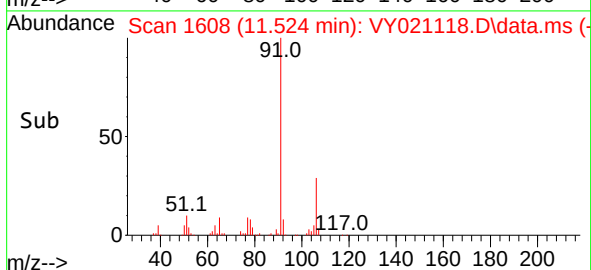
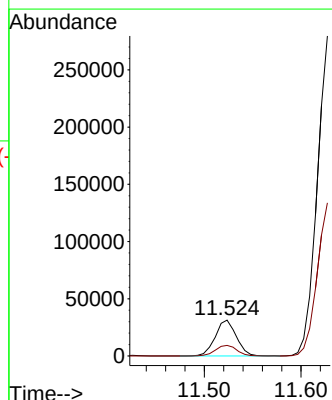
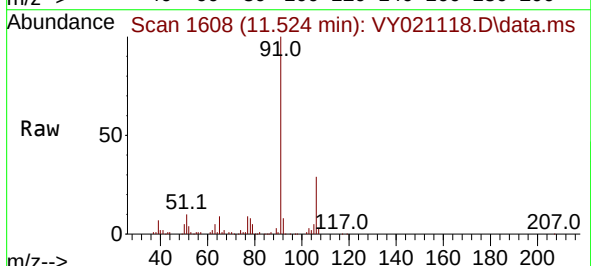
Acq: 06 Feb 2025 17:55

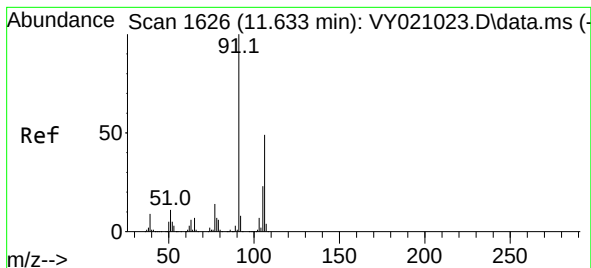
Tgt Ion: 91 Resp: 47521

Ion Ratio Lower Upper

91 100

106 29.5 25.0 37.4

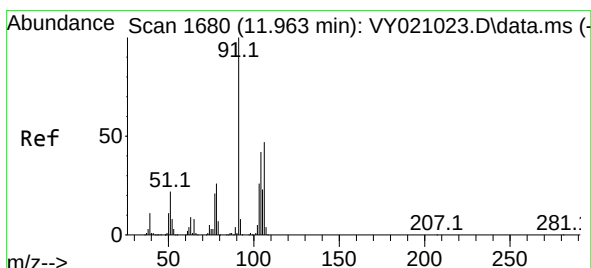
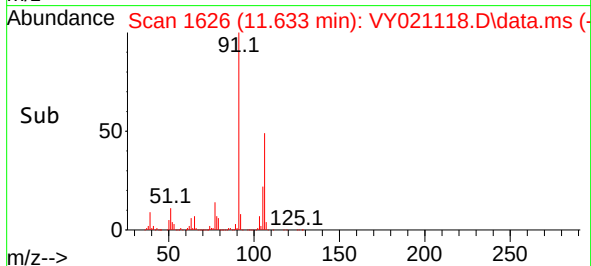
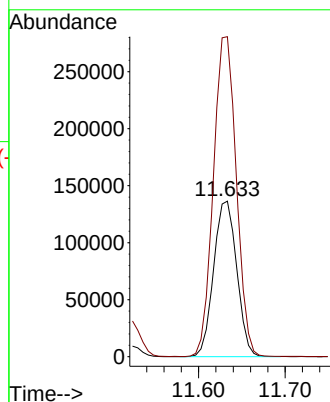
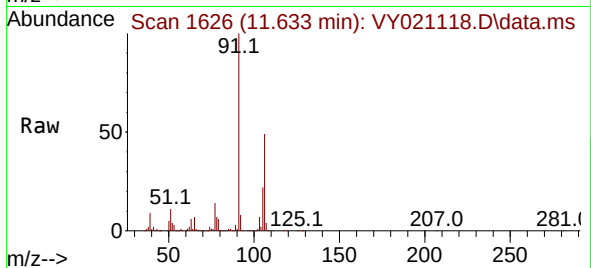




#68
m/p-Xylenes
Concen: 48.627 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

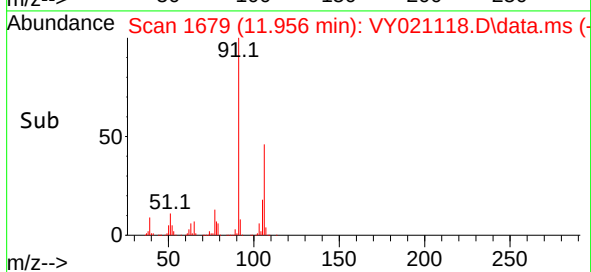
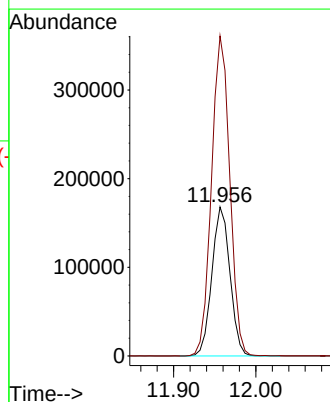
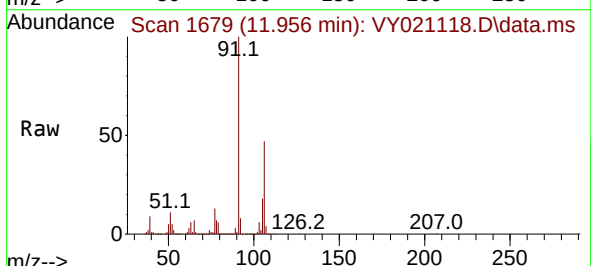
Instrument :
MSVOA_Y
ClientSampleId :

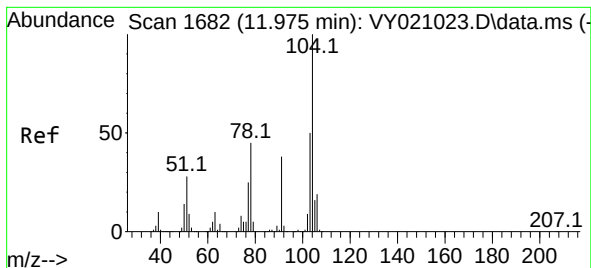
Tgt Ion:106 Resp: 252970
Ion Ratio Lower Upper
106 100
91 204.3 160.7 241.1



#69
o-Xylene
Concen: 52.927 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. -0.006 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

Tgt Ion:106 Resp: 256703
Ion Ratio Lower Upper
106 100
91 217.4 106.5 319.5





#70

Styrene

Concen: 1.885 ug/l

RT: 11.956 min Scan# 1

Delta R.T. -0.019 min

Lab File: VY021118.D

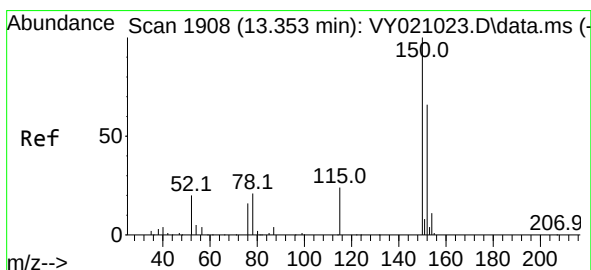
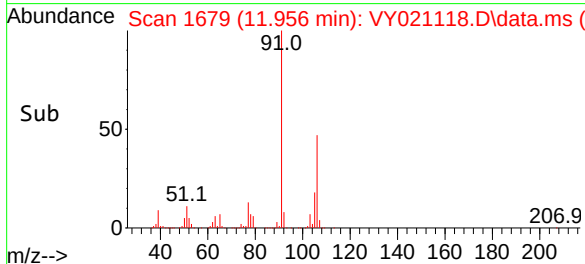
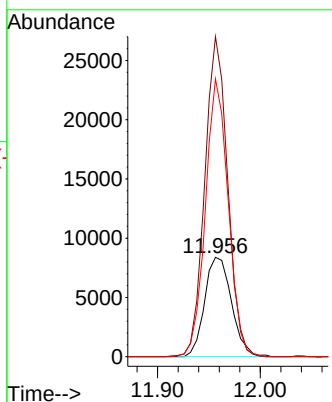
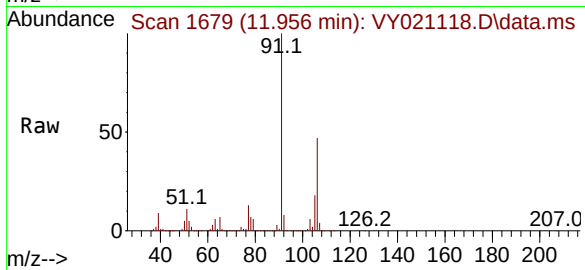
Acq: 06 Feb 2025 17:55

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:104	Resp:	15235
Ion Ratio	Lower	Upper
104	100	
78	273.9	39.2 58.8#
103	237.7	43.8 65.6#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

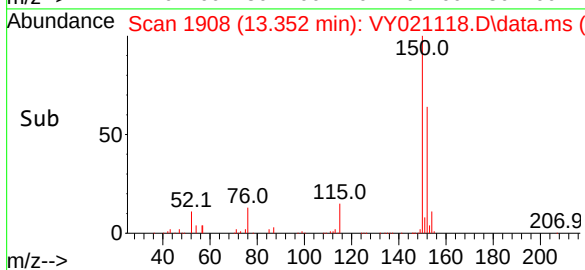
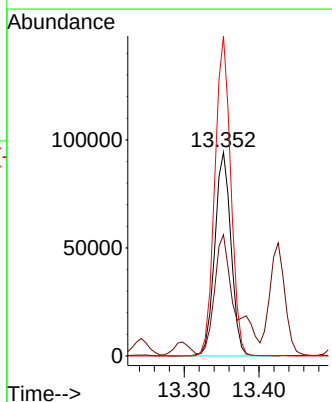
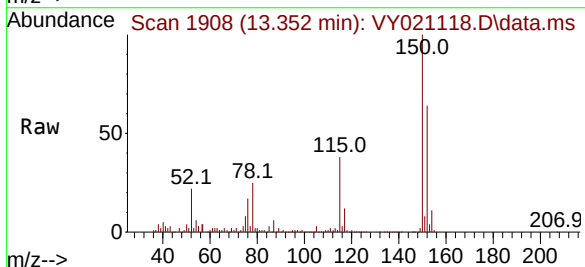
RT: 13.352 min Scan# 1908

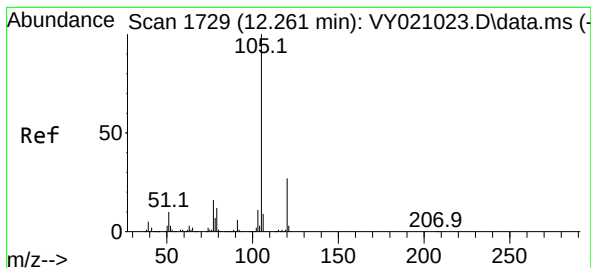
Delta R.T. -0.000 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

Tgt Ion:152	Resp:	142006
Ion Ratio	Lower	Upper
152	100	
115	74.2	30.0 90.0
150	155.0	0.0 344.6





#73

Isopropylbenzene

Concen: 12.009 ug/l

RT: 12.261 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

Instrument :

MSVOA_Y

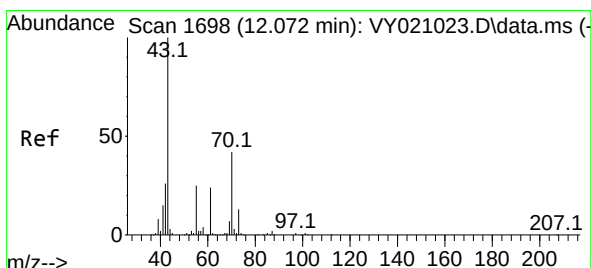
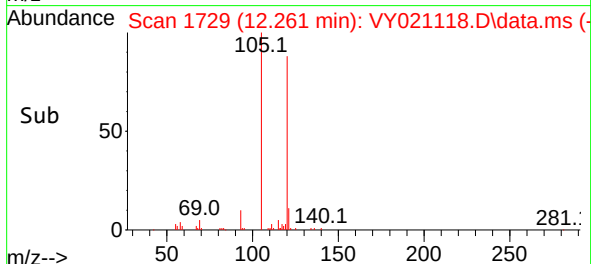
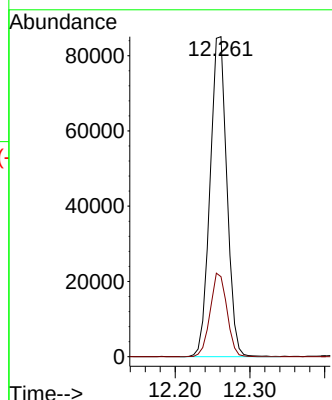
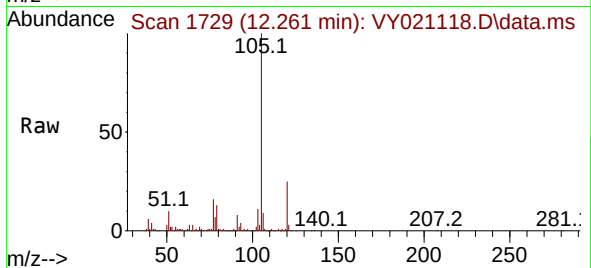
ClientSampleId :

Tgt Ion:105 Resp: 133213

Ion Ratio Lower Upper

105 100

120 26.0 13.0 39.0



#74

N-ethyl acetate

Concen: 2.332 ug/l

RT: 12.054 min Scan# 1695

Delta R.T. -0.019 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

Tgt Ion: 43 Resp: 5655

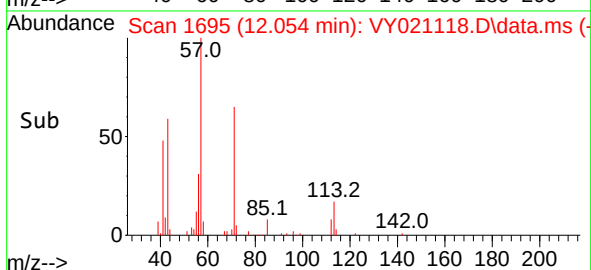
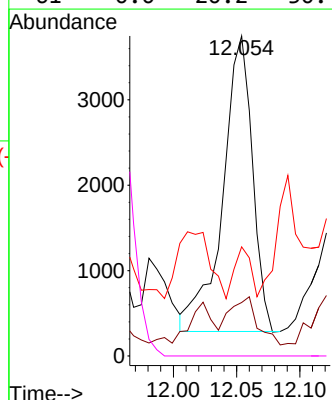
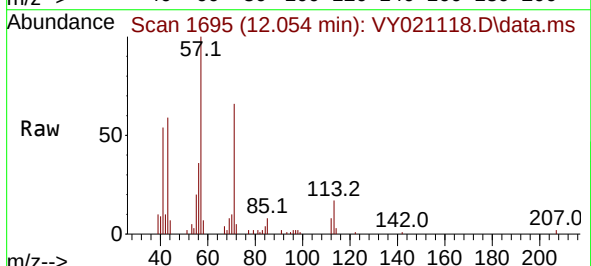
Ion Ratio Lower Upper

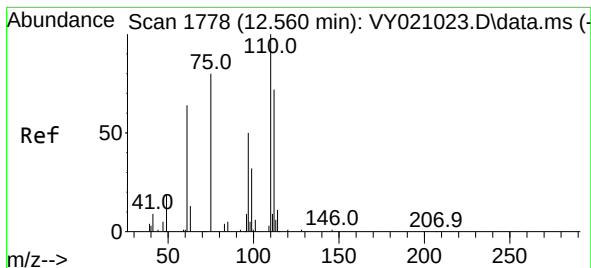
43 100

70 15.2 36.6 55.0#

55 9.4 22.2 33.4#

61 0.0 20.2 30.4#





#76

1,2,3-Trichloropropane

Concen: 13.998 ug/l

RT: 12.664 min Scan# 1778

Delta R.T. 0.103 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

Instrument :

MSVOA_Y

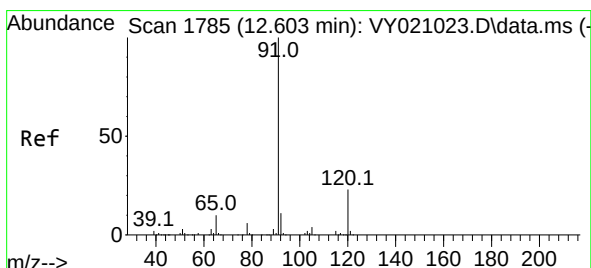
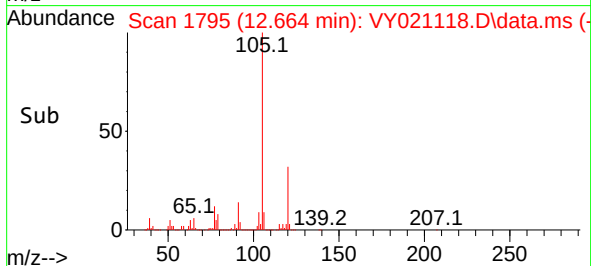
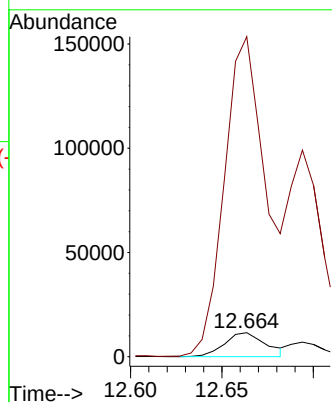
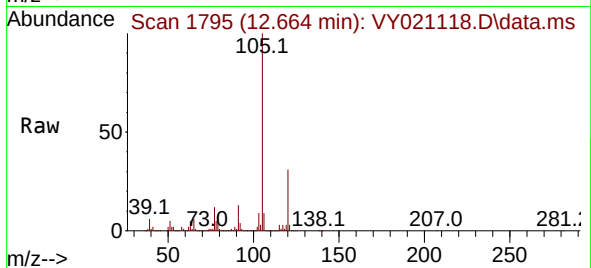
ClientSampleId :

Tgt Ion: 75 Resp: 18032

Ion Ratio Lower Upper

75 100

77 1345.3 0.0 0.0#



#78

n-propylbenzene

Concen: 1.177 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. -0.006 min

Lab File: VY021118.D

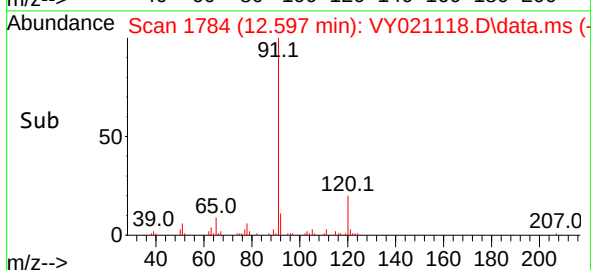
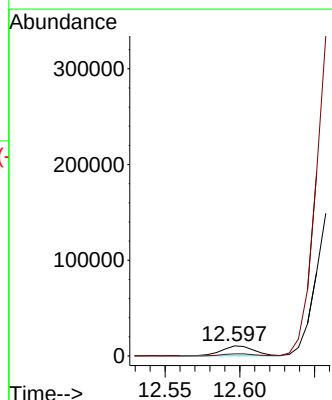
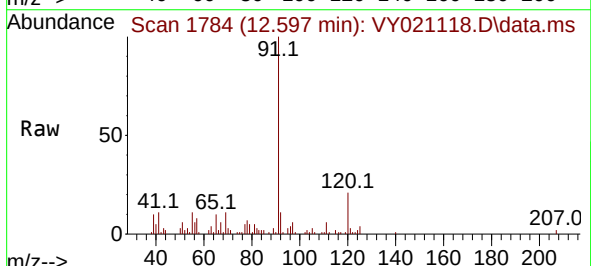
Acq: 06 Feb 2025 17:55

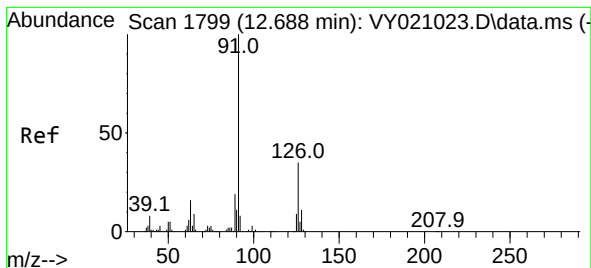
Tgt Ion: 91 Resp: 15557

Ion Ratio Lower Upper

91 100

120 0.0 11.0 33.0#

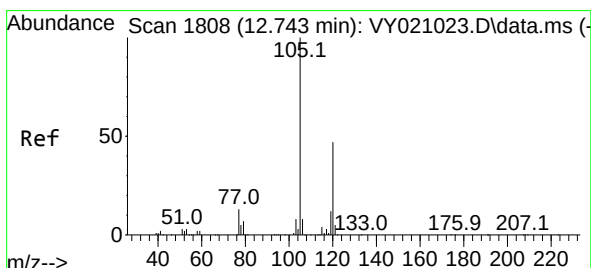
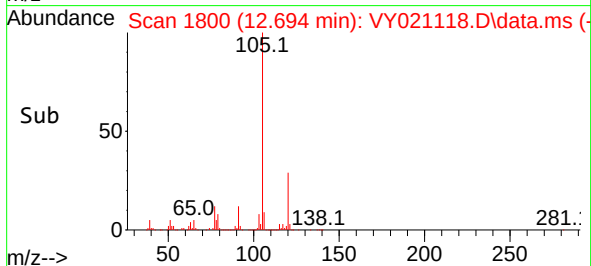
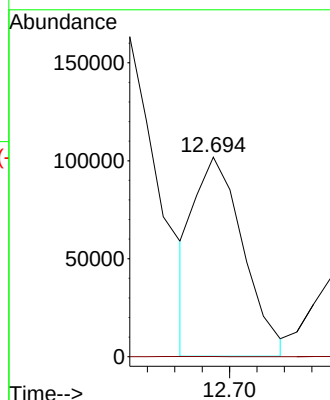
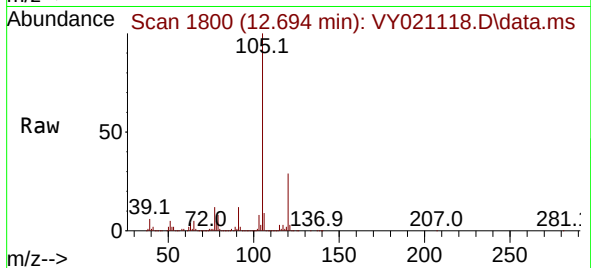




#79
2-Chlorotoluene
Concen: 16.717 ug/l
RT: 12.694 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

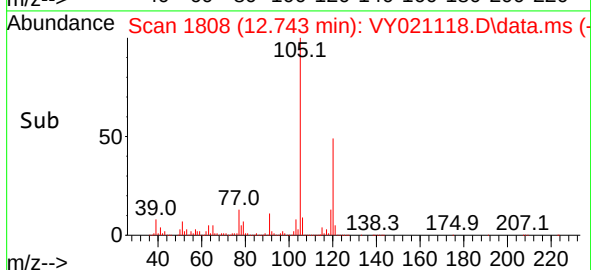
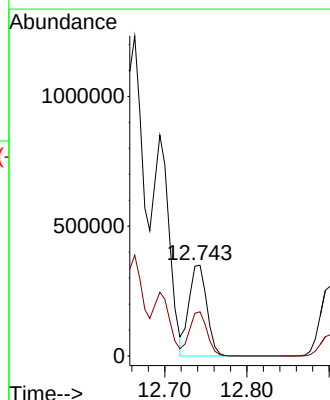
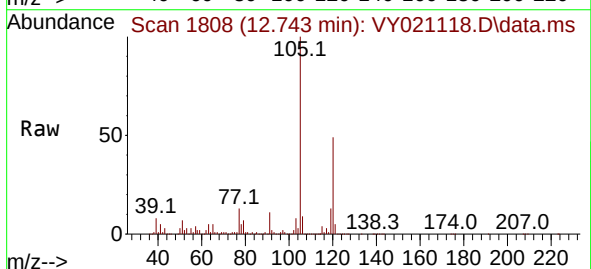
Instrument :
MSVOA_Y
ClientSampleId :

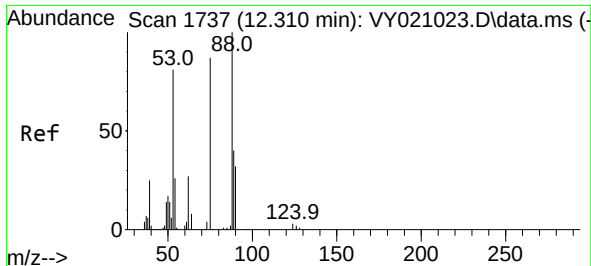
Tgt Ion: 91 Resp: 126518
Ion Ratio Lower Upper
91 100
126 0.1 17.0 51.0#



#80
1,3,5-Trimethylbenzene
Concen: 58.549 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

Tgt Ion: 105 Resp: 526567
Ion Ratio Lower Upper
105 100
120 47.9 24.3 72.8

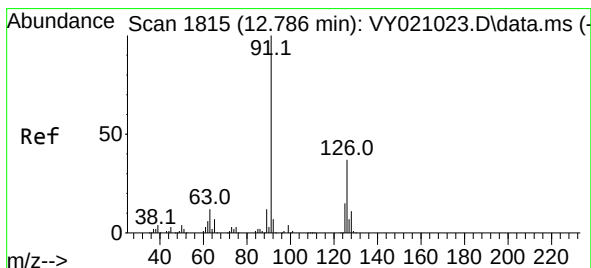
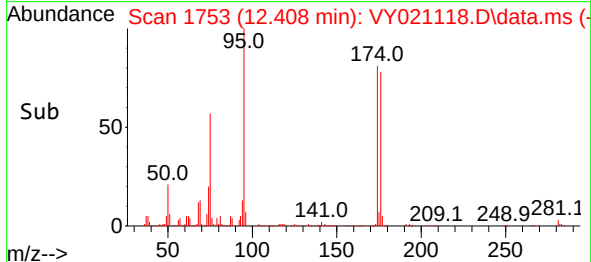
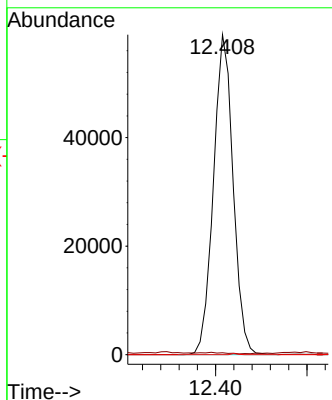
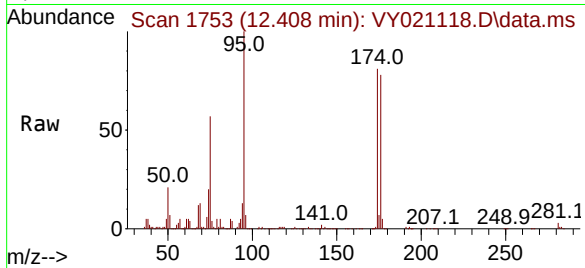




#81
trans-1,4-Dichloro-2-butene
Concen: 139.482 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

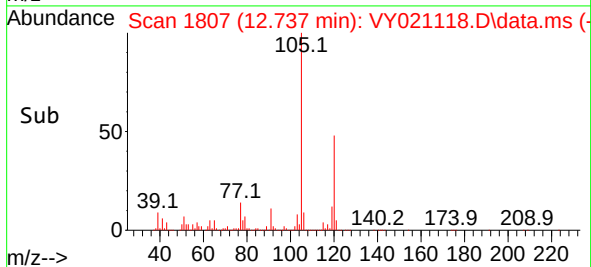
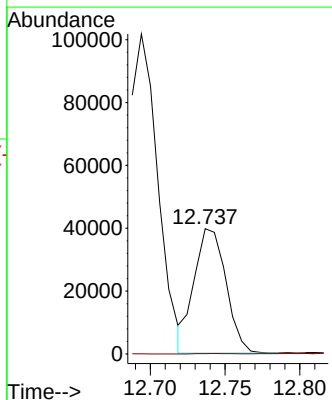
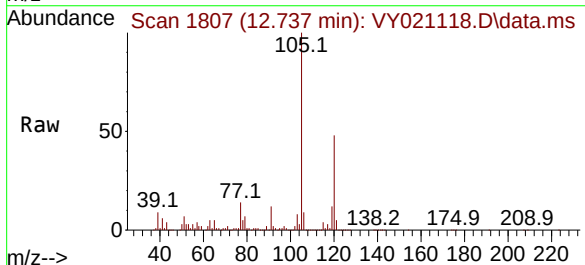
Instrument :
MSVOA_Y
ClientSampleId :

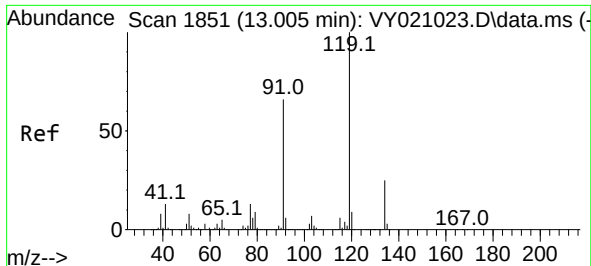
Tgt Ion: 75 Resp: 88056
Ion Ratio Lower Upper
75 100
53 0.0 74.0 111.0#
89 0.1 36.5 54.7#



#82
4-Chlorotoluene
Concen: 7.607 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.049 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

Tgt Ion: 91 Resp: 58654
Ion Ratio Lower Upper
91 100
126 0.4 17.1 51.2#

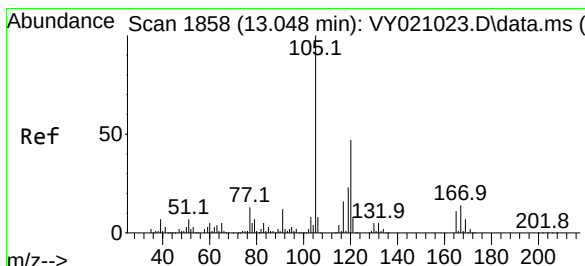
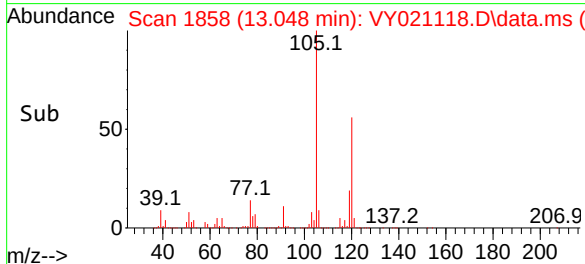
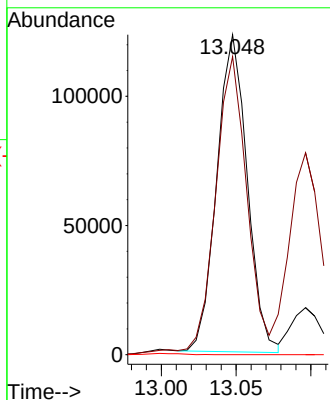
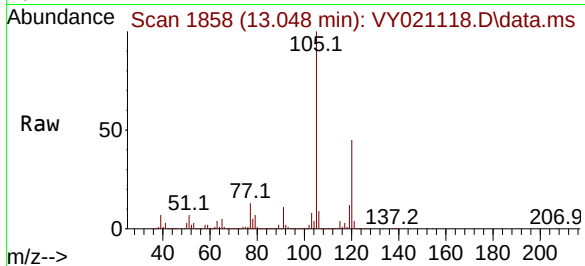




#83
 tert-Butylbenzene
 Concen: 21.200 ug/l
 RT: 13.048 min Scan# 1858
 Delta R.T. 0.042 min
 Lab File: VY021118.D
 Acq: 06 Feb 2025 17:55

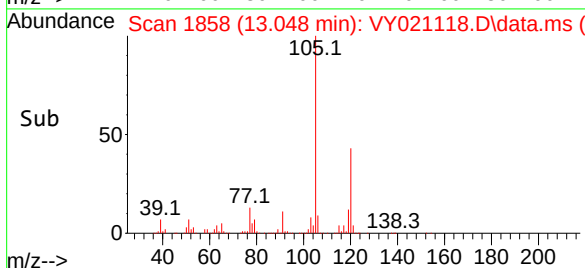
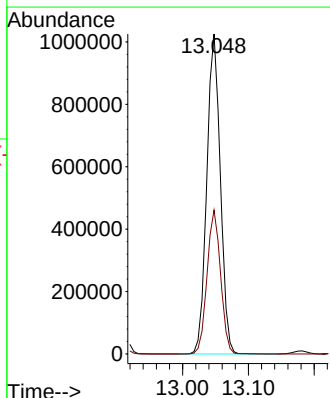
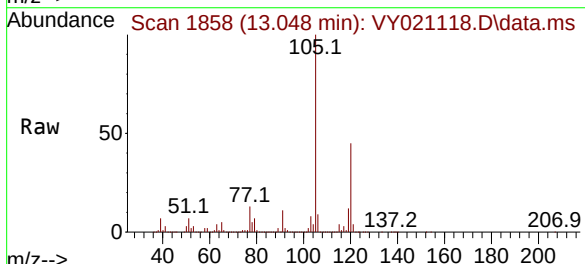
Instrument :
 MSVOA_Y
 ClientSampleId :

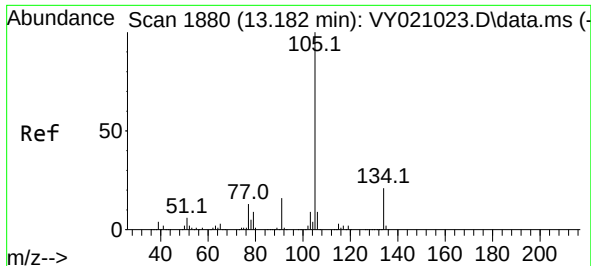
Tgt Ion:119 Resp: 173307
 Ion Ratio Lower Upper
 119 100
 91 96.7 31.5 94.5#
 134 0.0 13.1 39.3#



#84
 1,2,4-Trimethylbenzene
 Concen: 166.813 ug/l
 RT: 13.048 min Scan# 1858
 Delta R.T. -0.000 min
 Lab File: VY021118.D
 Acq: 06 Feb 2025 17:55

Tgt Ion:105 Resp: 1466896
 Ion Ratio Lower Upper
 105 100
 120 45.0 22.1 66.3

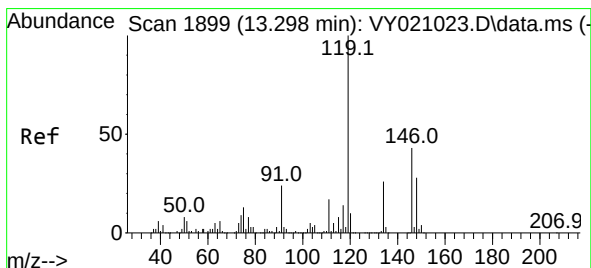
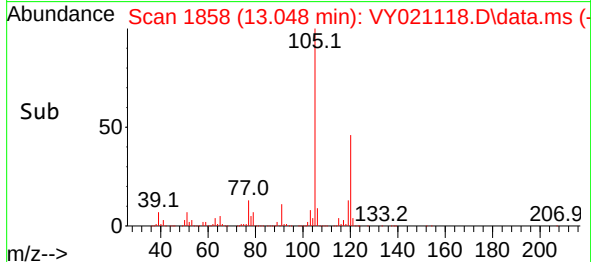
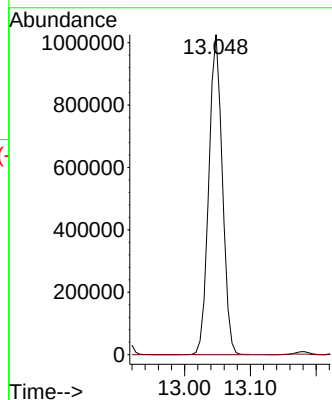
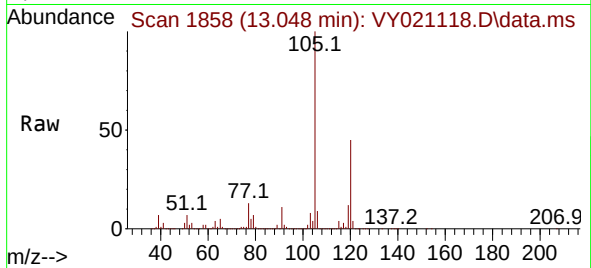




#85
sec-Butylbenzene
Concen: 124.658 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.134 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

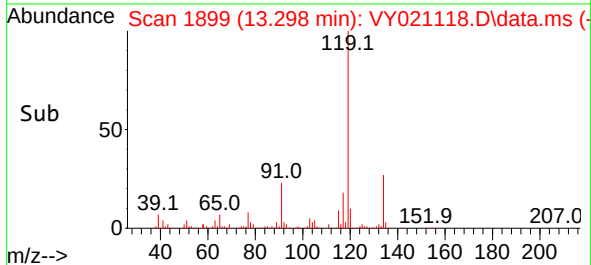
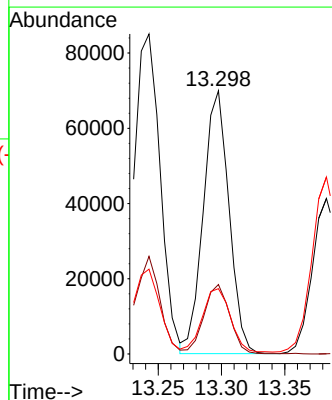
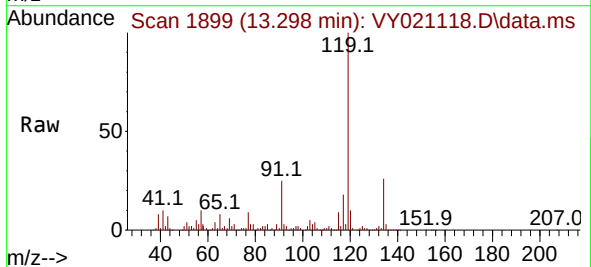
Instrument :
MSVOA_Y
ClientSampleId :

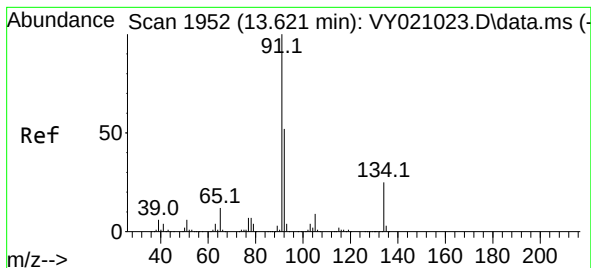
Tgt Ion:105 Resp: 1466896
Ion Ratio Lower Upper
105 100
134 0.0 9.7 28.9#



#86
p-Isopropyltoluene
Concen: 10.104 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

Tgt Ion:119 Resp: 98764
Ion Ratio Lower Upper
119 100
134 26.3 13.1 39.1
91 0.0 11.7 35.0#





#89

n-Butylbenzene

Concen: 154.724 ug/l

RT: 13.554 min Scan# 1941

Delta R.T. -0.067 min

Lab File: VY021118.D

Acq: 06 Feb 2025 17:55

Instrument :

MSVOA_Y

ClientSampleId :

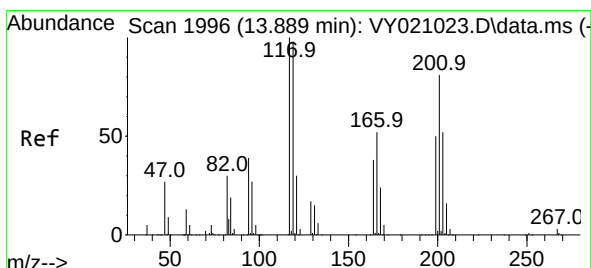
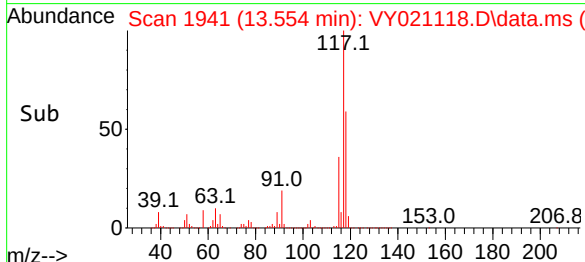
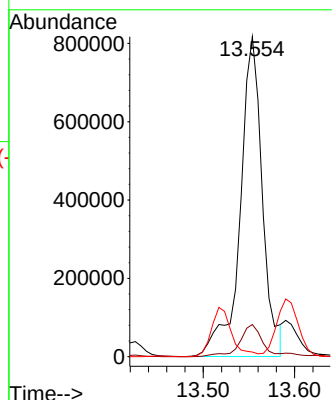
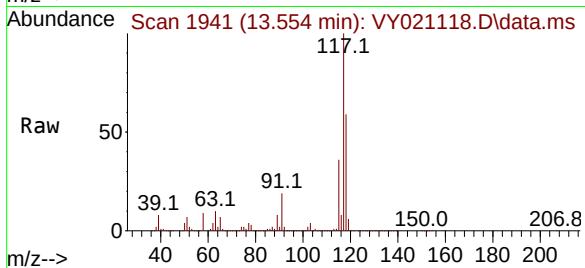
Tgt Ion: 91 Resp: 1379740

Ion Ratio Lower Upper

91 100

92 10.0 26.4 79.2#

134 0.0 12.3 36.8#



#90

Hexachloroethane

Concen: 39.177 ug/l

RT: 13.895 min Scan# 1997

Delta R.T. 0.006 min

Lab File: VY021118.D

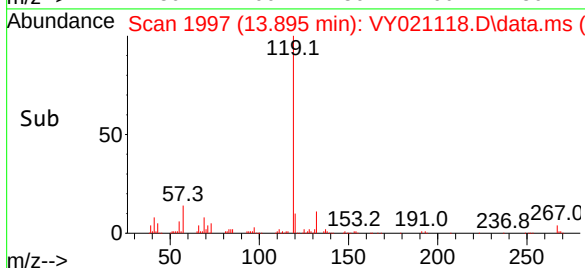
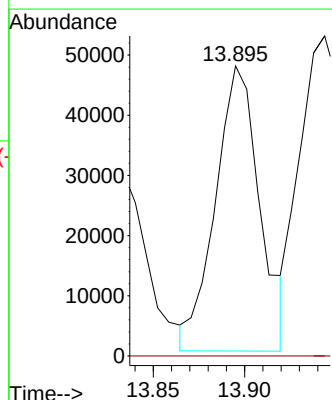
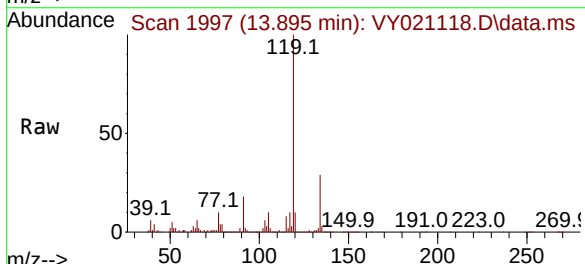
Acq: 06 Feb 2025 17:55

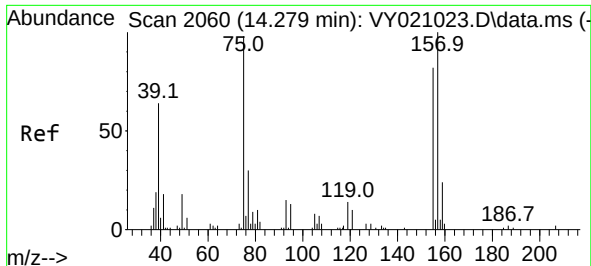
Tgt Ion: 117 Resp: 79890

Ion Ratio Lower Upper

117 100

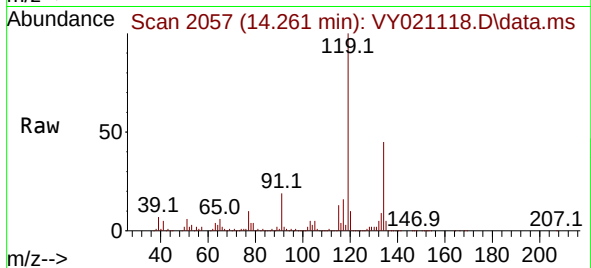
201 0.0 33.4 100.1#



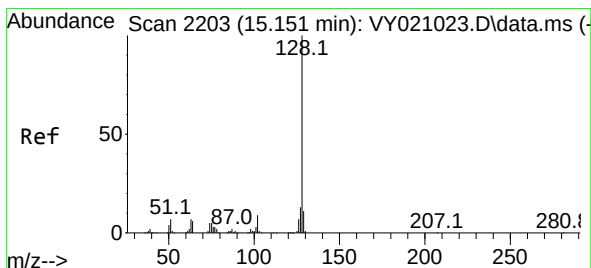
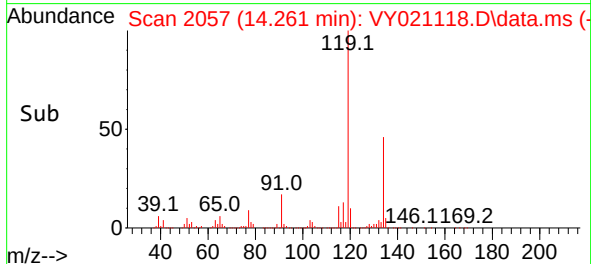
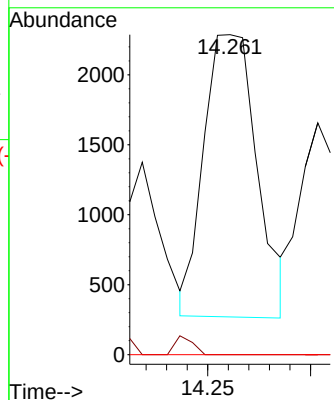


#92
1,2-Dibromo-3-Chloropropane
Concen: 13.178 ug/l
RT: 14.261 min Scan# 2060
Delta R.T. -0.019 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 75 Resp: 3633
Ion Ratio Lower Upper
75 100
155 0.0 42.1 126.3#
157 0.0 55.8 167.4#



#95
Naphthalene
Concen: 3791.436 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. -0.000 min
Lab File: VY021118.D
Acq: 06 Feb 2025 17:55

Tgt Ion: 128 Resp: 14484602
Ion Ratio Lower Upper
128 100
127 15.5 10.2 15.4#
129 13.5 8.6 12.8#

