

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
 Data File : VY022544.D
 Acq On : 04 Jun 2025 12:39
 Operator : SY/MD
 Sample : Q2168-03RE
 Misc : 5.44g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 A3RE

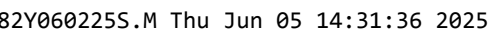
Quant Time: Jun 05 04:13:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	15310	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	23690	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	13874	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	2305	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	6074	35.472	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	70.940%
35) Dibromofluoromethane	7.634	113	4696	33.211	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	66.420%
50) Toluene-d8	10.103	98	24545	42.960	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	85.920%
62) 4-Bromofluorobenzene	12.408	95	4064	23.873	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	47.740%
Target Compounds						
						Qvalue
40) Benzene	8.079	78	9310	13.735	ug/l	98
52) Toluene	10.170	92	12274	28.814	ug/l	95
67) Ethyl Benzene	11.511	91	3358	5.897	ug/l	96
68) m/p-Xylenes	11.621	106	6142	28.452	ug/l	98
69) o-Xylene	11.950	106	2567	12.683	ug/l	93
80) 1,3,5-Trimethylbenzene	12.731	105	1191	8.016	ug/l	79
84) 1,2,4-Trimethylbenzene	13.048	105	2773	18.661	ug/l	94
95) Naphthalene	15.145	128	1391	19.347	ug/l	# 85

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

Quant Time: Jun 05 04:13:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
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QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

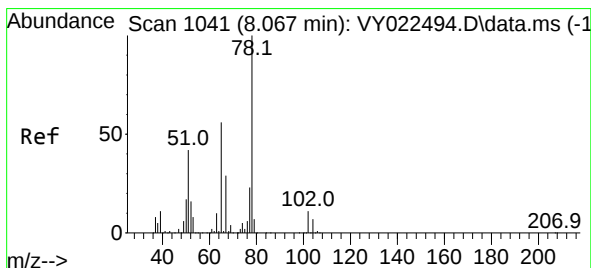
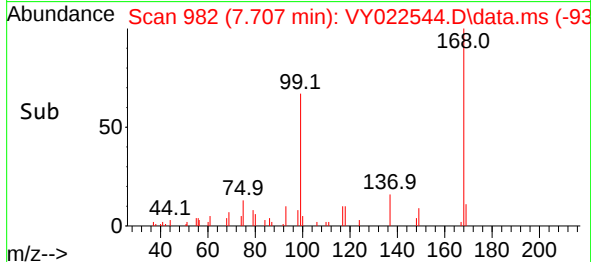
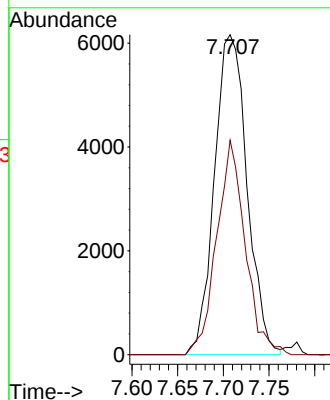
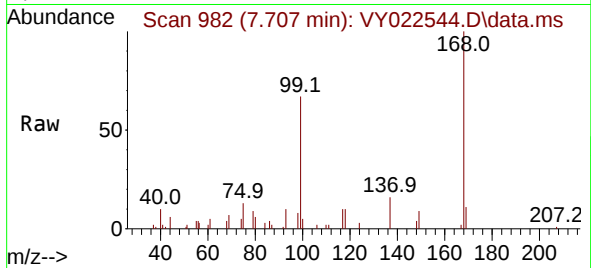




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022544.D
Acq: 04 Jun 2025 12:39

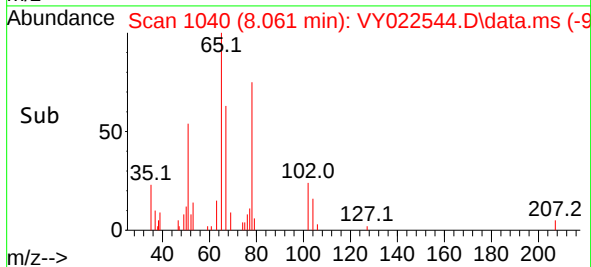
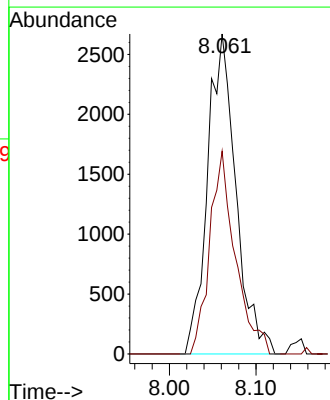
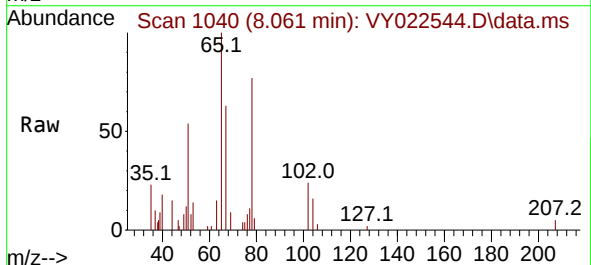
Instrument :
MSVOA_Y
ClientSampleId :
A3RE

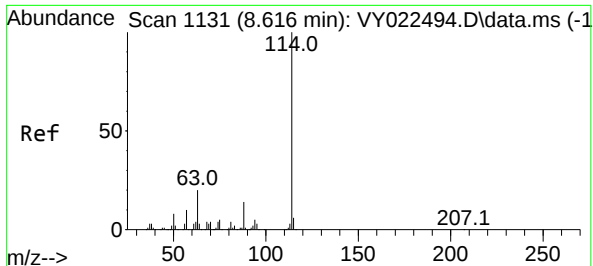
Tgt Ion:168 Resp: 15310
Ion Ratio Lower Upper
168 100
99 67.0 44.3 66.5#



#33
1,2-Dichloroethane-d4
Concen: 35.472 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022544.D
Acq: 04 Jun 2025 12:39

Tgt Ion: 65 Resp: 6074
Ion Ratio Lower Upper
65 100
67 57.1 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022544.D

Acq: 04 Jun 2025 12:39

Instrument :

MSVOA_Y

ClientSampleId :

A3RE

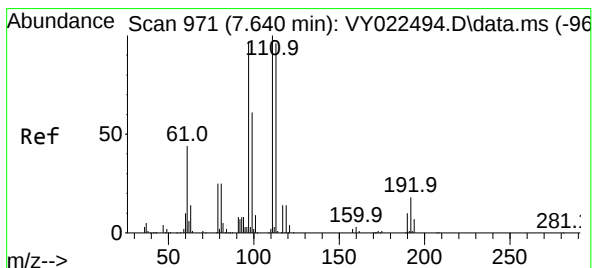
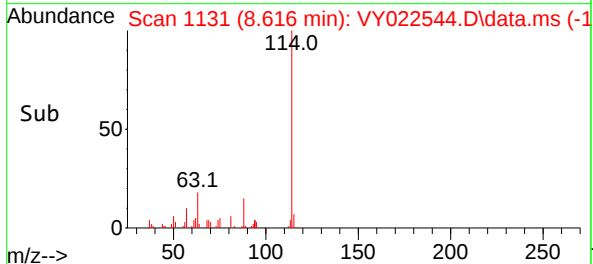
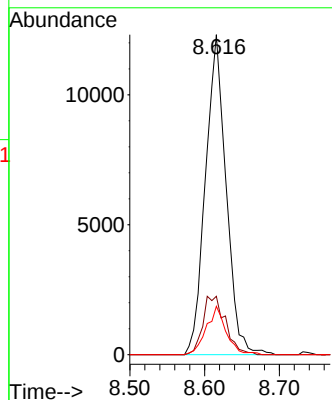
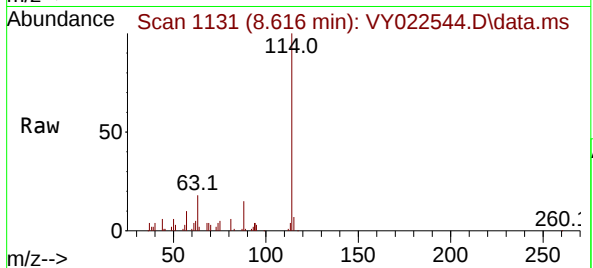
Tgt Ion:114 Resp: 23690

Ion Ratio Lower Upper

114 100

63 18.3 0.0 40.8

88 15.1 0.0 27.8



#35

Dibromofluoromethane

Concen: 33.211 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022544.D

Acq: 04 Jun 2025 12:39

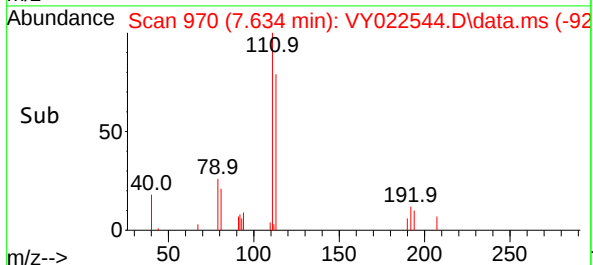
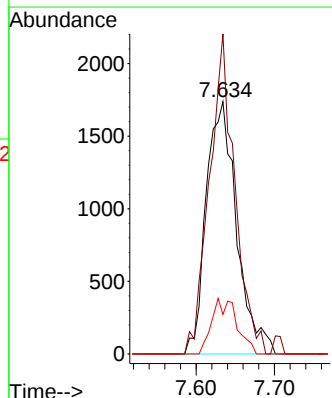
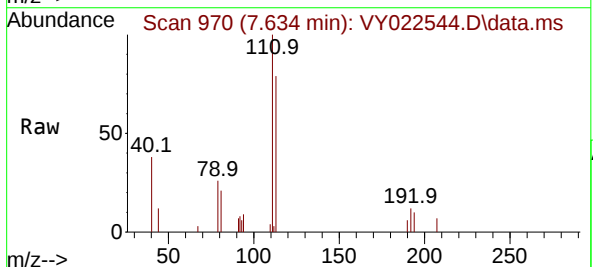
Tgt Ion:113 Resp: 4696

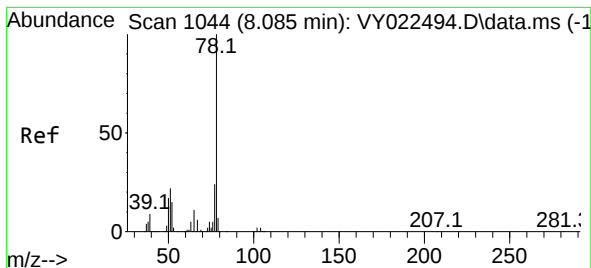
Ion Ratio Lower Upper

113 100

111 106.0 81.1 121.7

192 18.1 14.2 21.2





#40

Benzene

Concen: 13.735 ug/l

RT: 8.079 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022544.D

Acq: 04 Jun 2025 12:39

Instrument :

MSVOA_Y

ClientSampleId :

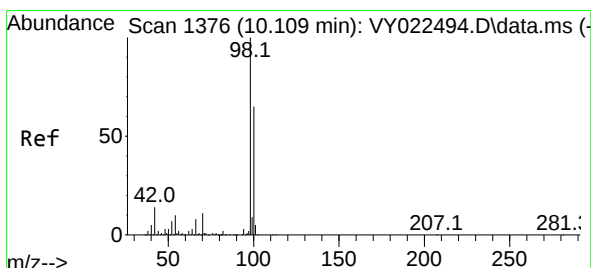
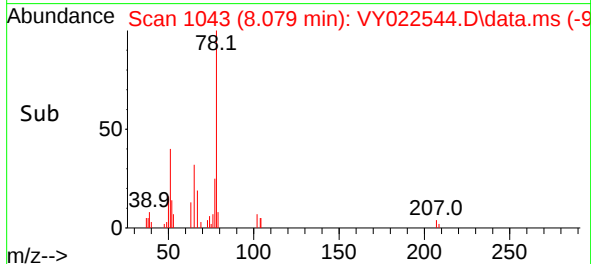
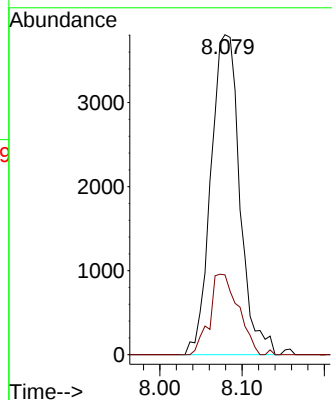
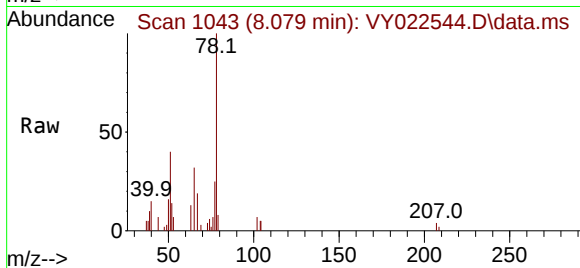
A3RE

Tgt Ion: 78 Resp: 9310

Ion Ratio Lower Upper

78 100

77 24.9 19.3 28.9



#50

Toluene-d8

Concen: 42.960 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022544.D

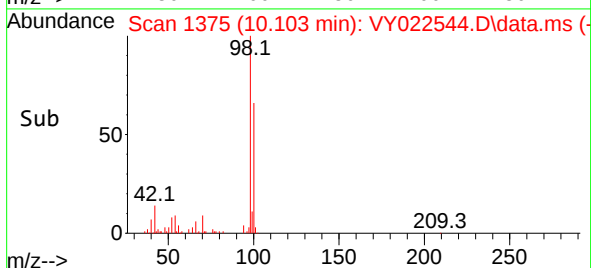
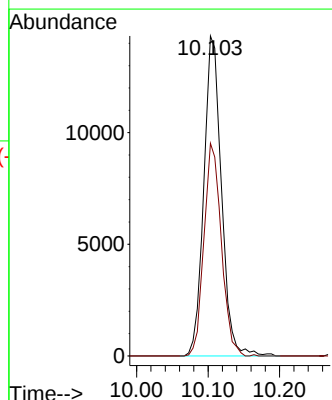
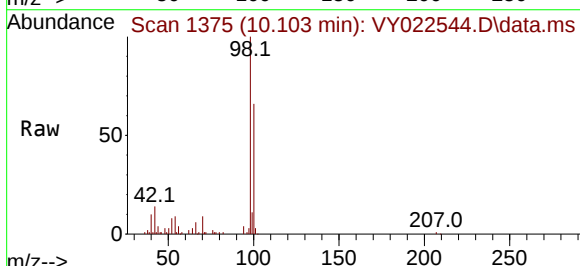
Acq: 04 Jun 2025 12:39

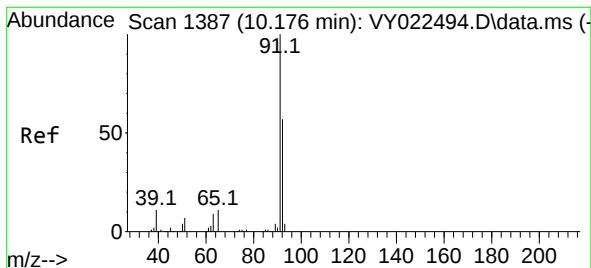
Tgt Ion: 98 Resp: 24545

Ion Ratio Lower Upper

98 100

100 65.4 51.4 77.0





#52

Toluene

Concen: 28.814 ug/l

RT: 10.170 min Scan# 1386

Delta R.T. -0.006 min

Lab File: VY022544.D

Acq: 04 Jun 2025 12:39

Instrument :

MSVOA_Y

ClientSampleId :

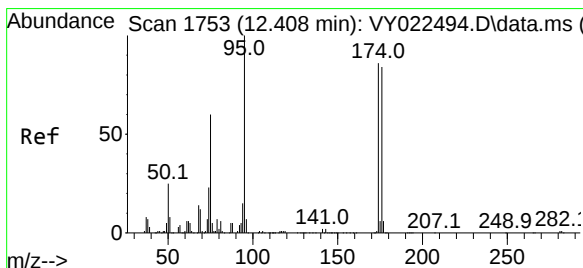
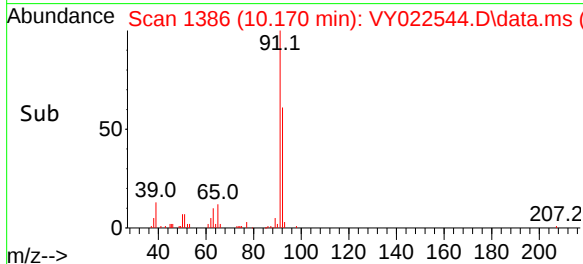
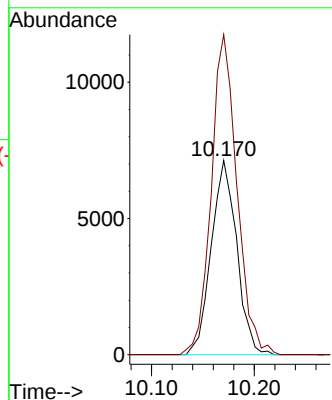
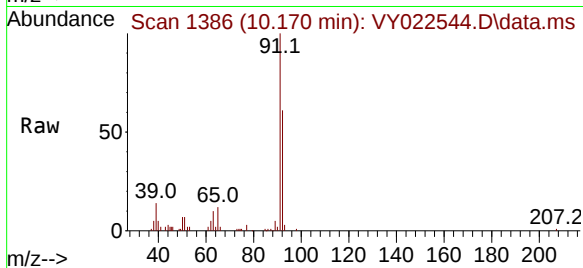
A3RE

Tgt Ion: 92 Resp: 12274

Ion Ratio Lower Upper

92 100

91 166.1 139.0 208.4



#62

4-Bromofluorobenzene

Concen: 23.873 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY022544.D

Acq: 04 Jun 2025 12:39

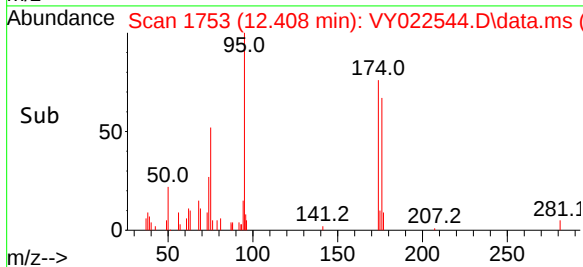
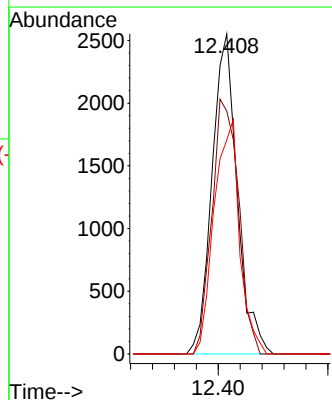
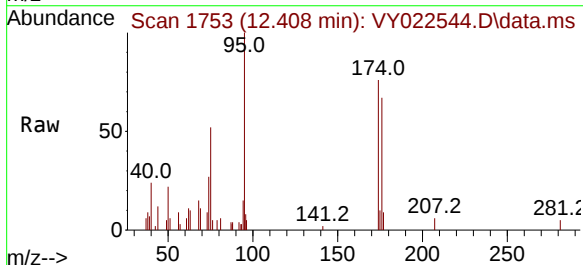
Tgt Ion: 95 Resp: 4064

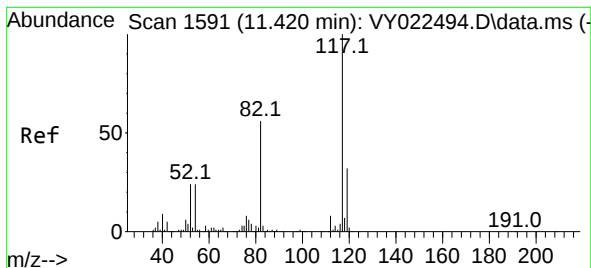
Ion Ratio Lower Upper

95 100

174 84.4 0.0 170.0

176 74.1 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022544.D

Acq: 04 Jun 2025 12:39

Instrument :

MSVOA_Y

ClientSampleId :

A3RE

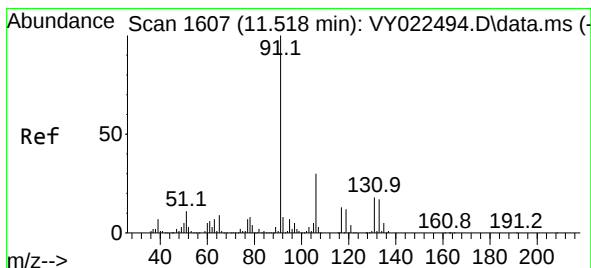
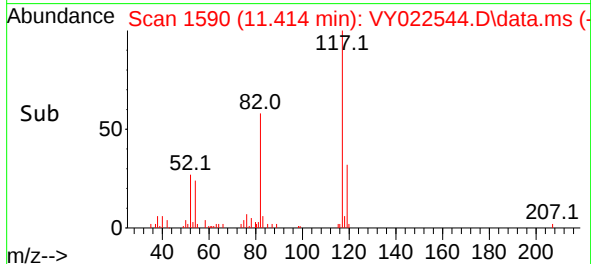
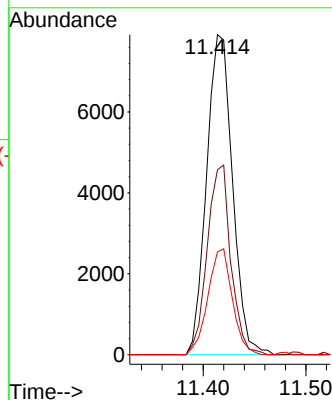
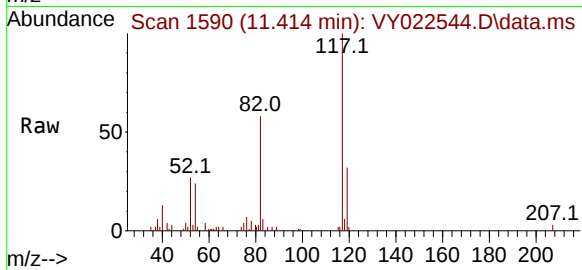
Tgt Ion:117 Resp: 13874

Ion Ratio Lower Upper

117 100

82 57.8 44.6 66.8

119 32.1 25.4 38.0



#67

Ethyl Benzene

Concen: 5.897 ug/l

RT: 11.511 min Scan# 1606

Delta R.T. -0.006 min

Lab File: VY022544.D

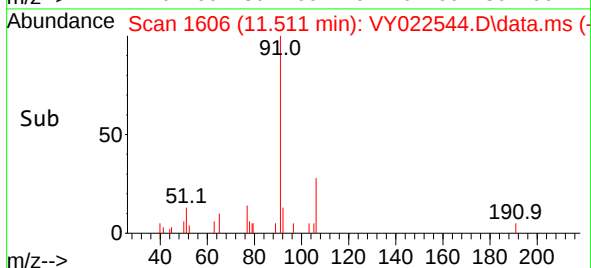
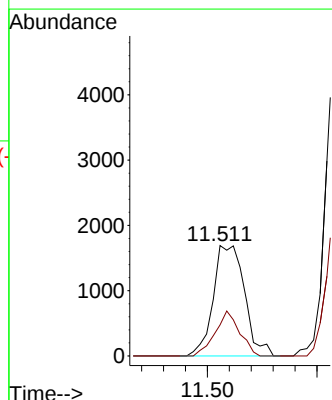
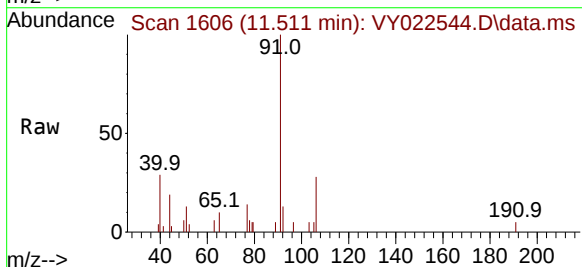
Acq: 04 Jun 2025 12:39

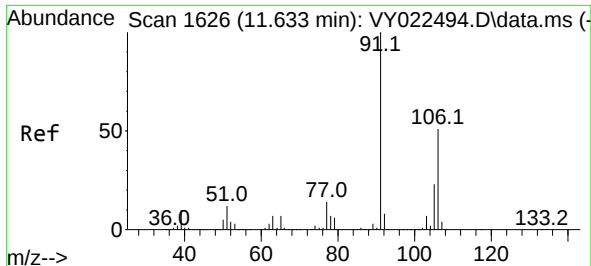
Tgt Ion: 91 Resp: 3358

Ion Ratio Lower Upper

91 100

106 28.1 24.2 36.4

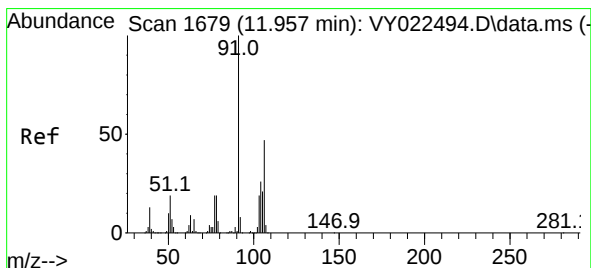
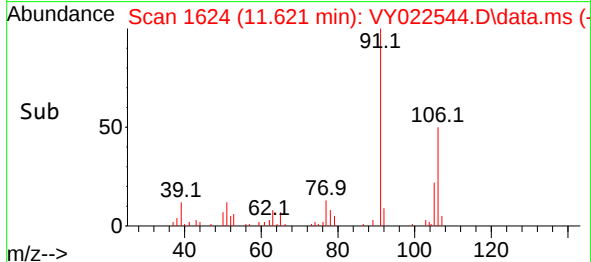
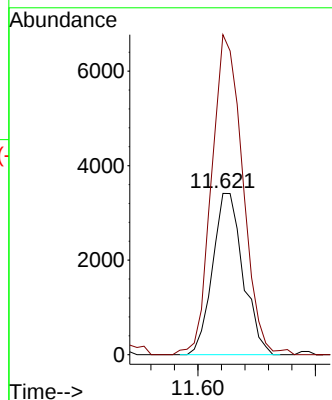
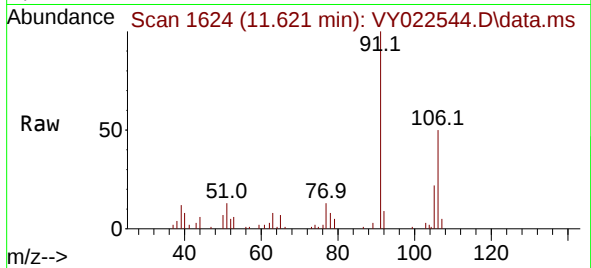




#68
m/p-Xylenes
Concen: 28.452 ug/l
RT: 11.621 min Scan# 11624
Delta R.T. -0.012 min
Lab File: VY022544.D
Acq: 04 Jun 2025 12:39

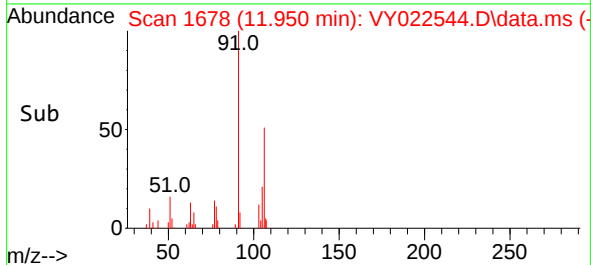
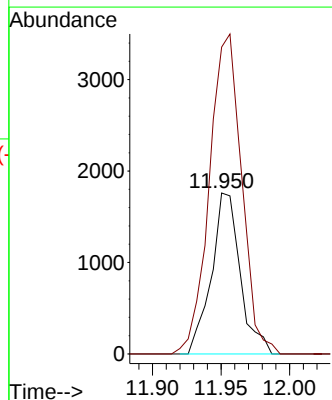
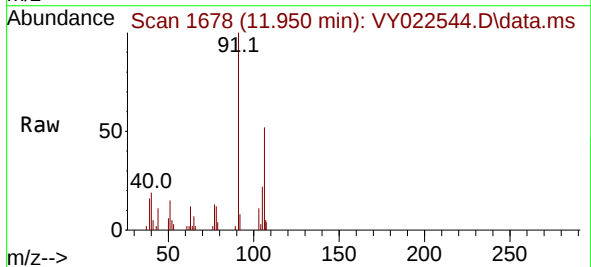
Instrument :
MSVOA_Y
ClientSampleId :
A3RE

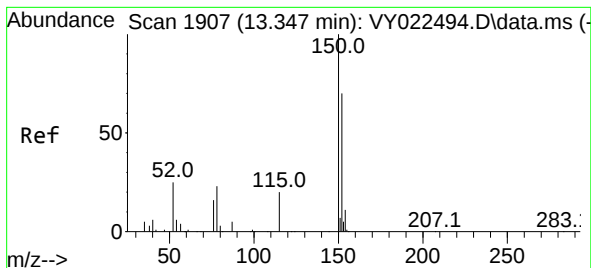
Tgt Ion:106 Resp: 6142
Ion Ratio Lower Upper
106 100
91 202.5 159.4 239.0



#69
o-Xylene
Concen: 12.683 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY022544.D
Acq: 04 Jun 2025 12:39

Tgt Ion:106 Resp: 2567
Ion Ratio Lower Upper
106 100
91 223.3 105.8 317.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022544.D

Acq: 04 Jun 2025 12:39

Instrument :

MSVOA_Y

ClientSampleId :

A3RE

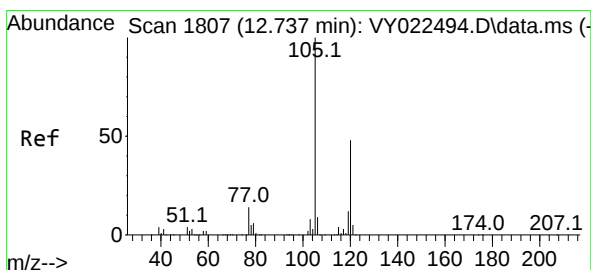
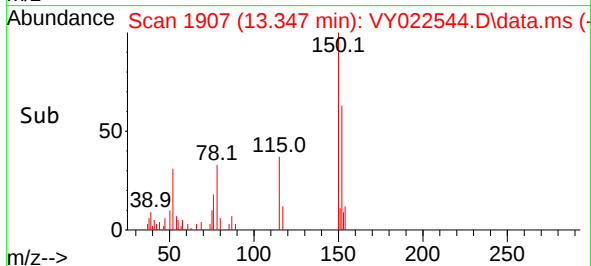
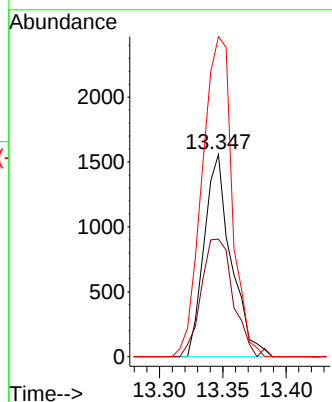
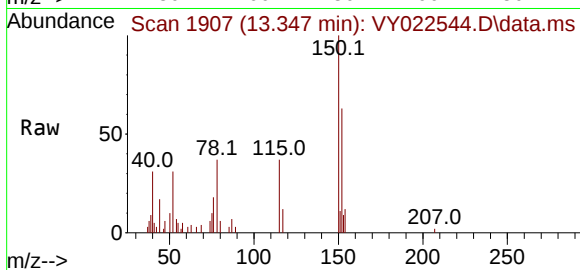
Tgt Ion:152 Resp: 2305

Ion Ratio Lower Upper

152 100

115 69.4 28.9 86.7

150 176.7 0.0 349.6



#80

1,3,5-Trimethylbenzene

Concen: 8.016 ug/l

RT: 12.731 min Scan# 1806

Delta R.T. -0.006 min

Lab File: VY022544.D

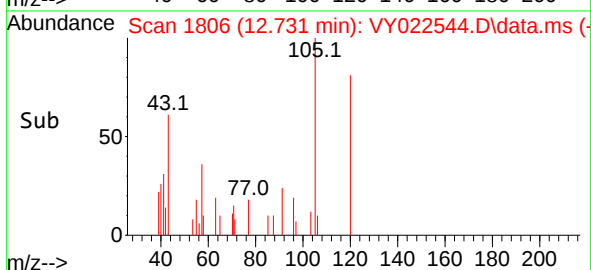
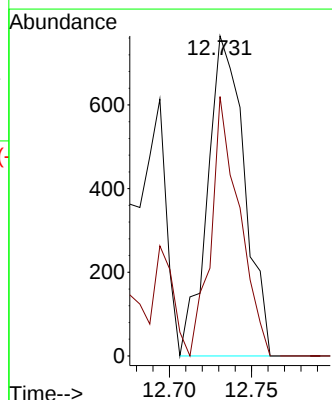
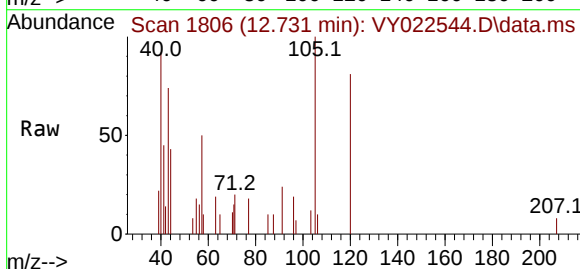
Acq: 04 Jun 2025 12:39

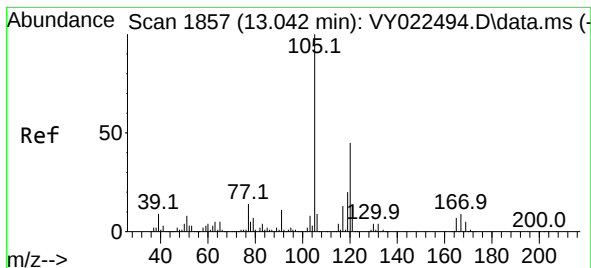
Tgt Ion:105 Resp: 1191

Ion Ratio Lower Upper

105 100

120 62.4 24.1 72.4





#84

1,2,4-Trimethylbenzene

Concen: 18.661 ug/l

RT: 13.048 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022544.D

Acq: 04 Jun 2025 12:39

Instrument :

MSVOA_Y

ClientSampleId :

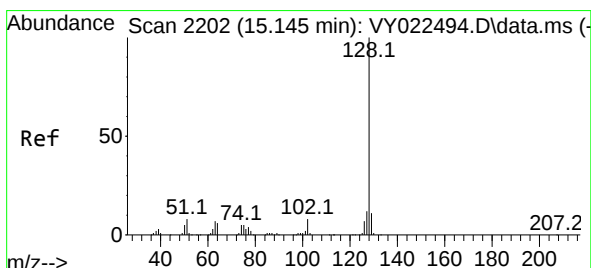
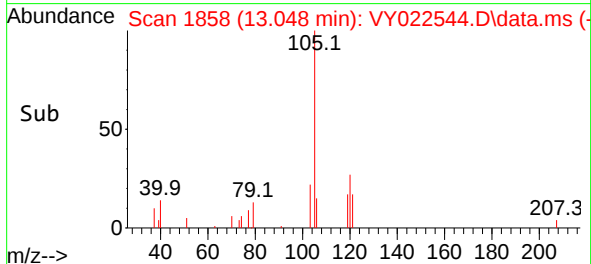
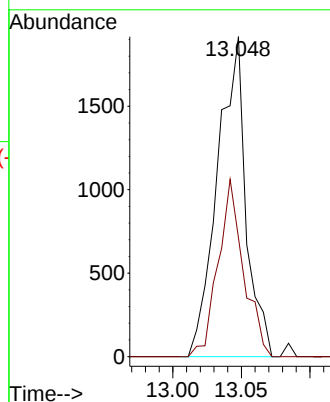
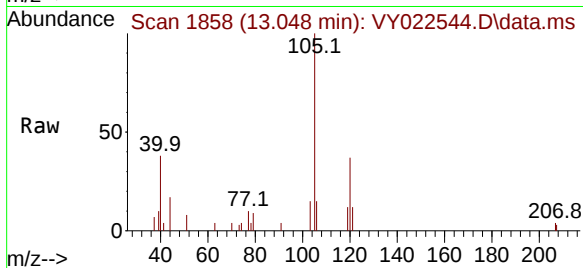
A3RE

Tgt Ion:105 Resp: 2773

Ion Ratio Lower Upper

105 100

120 49.4 22.7 68.1



#95

Naphthalene

Concen: 19.347 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. -0.000 min

Lab File: VY022544.D

Acq: 04 Jun 2025 12:39

Tgt Ion:128 Resp: 1391

Ion Ratio Lower Upper

128 100

127 12.1 10.4 15.6

129 0.0 8.9 13.3#

