

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022882.D
 Acq On : 30 Jun 2025 16:02
 Operator : SY/MD
 Sample : Q2449-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR200032

Quant Time: Jul 01 03:39:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

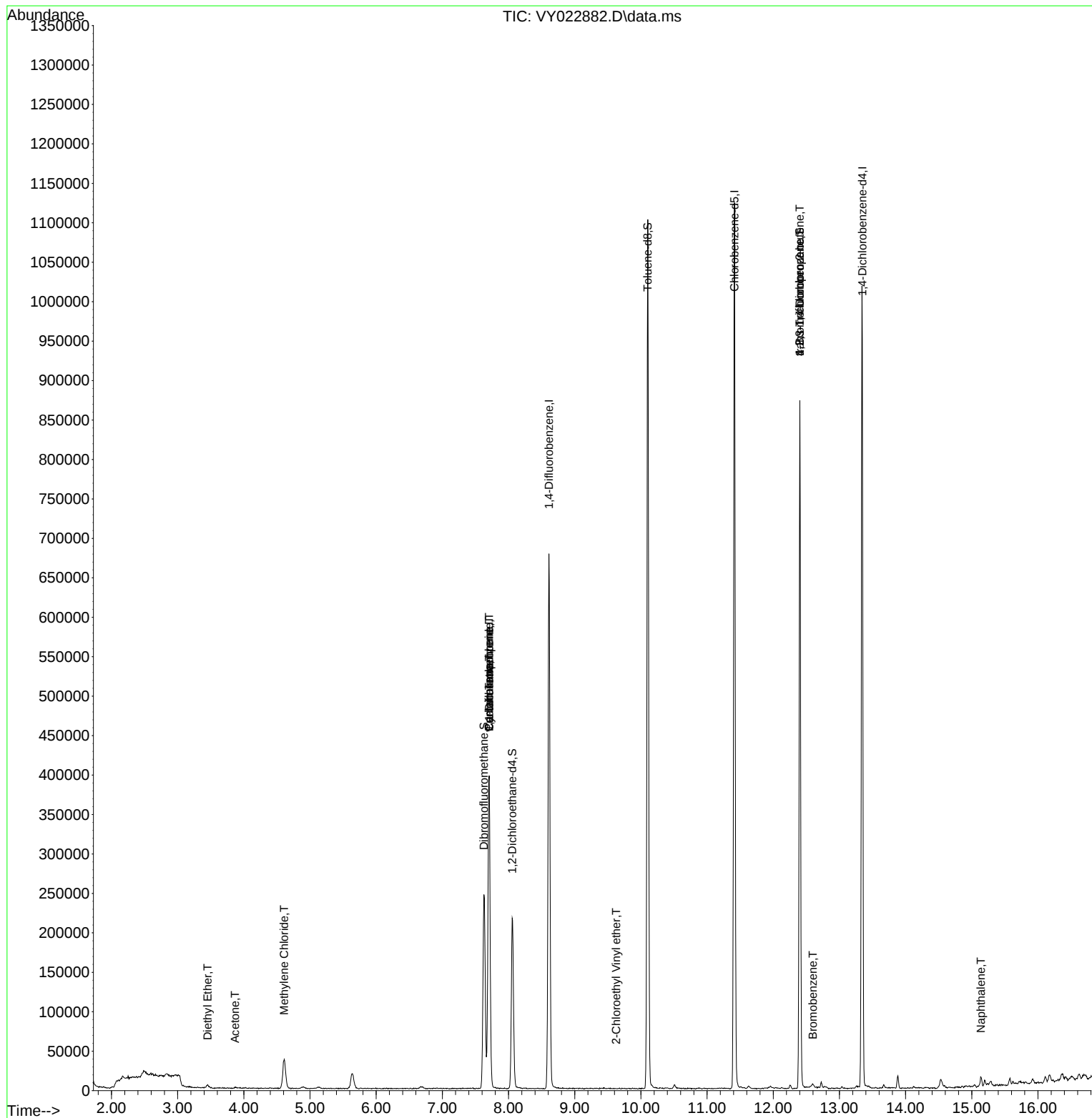
Internal Standards						
1) Pentafluorobenzene	7.707	168	298735	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	565547	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	561474	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	246923	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	174934	52.467	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.940%	
35) Dibromofluoromethane	7.628	113	176723	51.382	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.760%	
50) Toluene-d8	10.103	98	691265	50.650	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.300%	
62) 4-Bromofluorobenzene	12.402	95	249495	56.866	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 113.740%	
Target Compounds						
						Qvalue
8) Diethyl Ether	3.452	74	1942	1.165	ug/l	92
16) Acetone	3.867	43	1204	1.911	ug/l	94
20) Methylene Chloride	4.610	84	26858	6.749	ug/l	96
31) Cyclohexane	7.707	56	8162	1.425	ug/l #	25
36) 1,1-Dichloropropene	7.707	75	26178	5.021	ug/l #	50
38) Carbon Tetrachloride	7.707	117	31385	5.706	ug/l #	18
58) 2-Chloroethyl Vinyl ether	9.628	63	31	15.670	ug/l #	15
76) 1,2,3-Trichloropropane	12.402	75	139267	55.246	ug/l #	100
77) Bromobenzene	12.597	156	5260	1.271	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.402	75	139267	139.572	ug/l #	11
95) Naphthalene	15.139	128	9975	1.334	ug/l	98

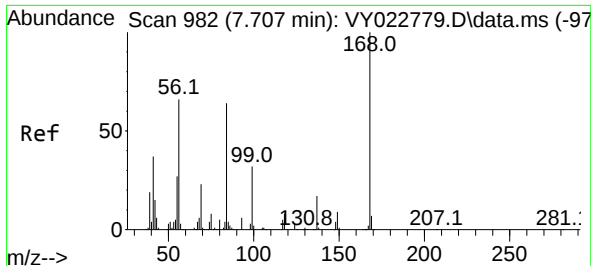
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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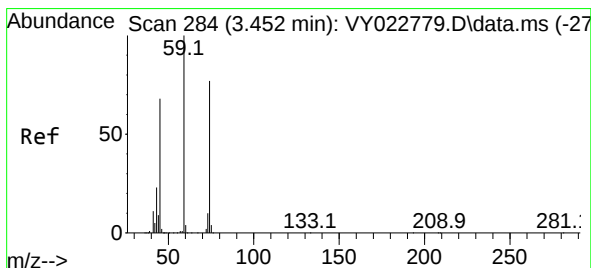
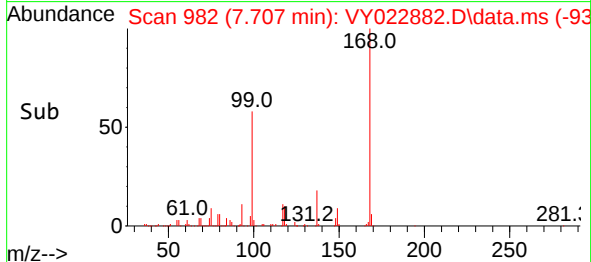
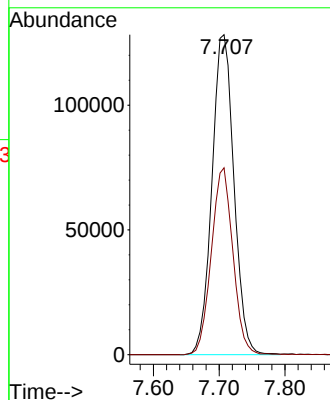
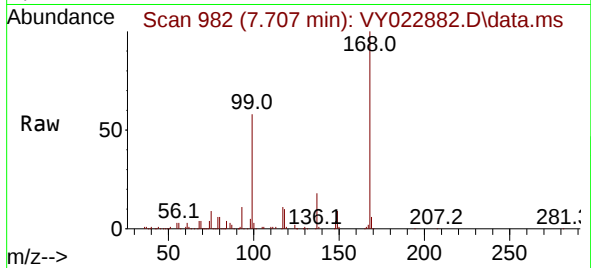




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022882.D
Acq: 30 Jun 2025 16:02

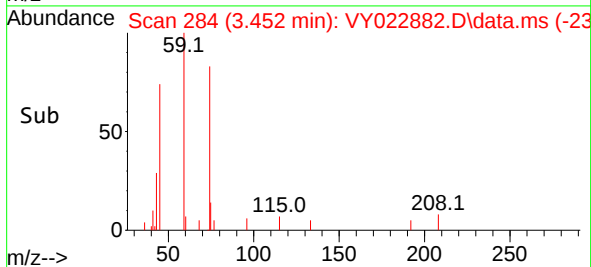
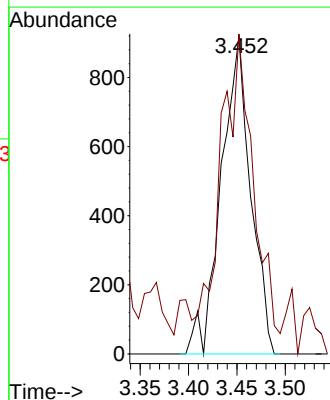
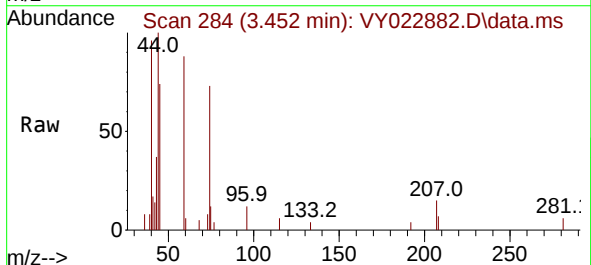
Instrument :
MSVOA_Y
ClientSampleId :
RBR200032

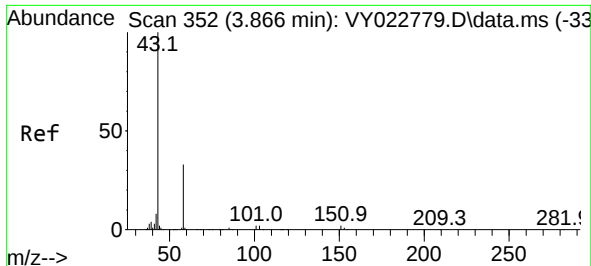
Tgt Ion:168 Resp: 298735
Ion Ratio Lower Upper
168 100
99 58.4 44.3 66.5



#8
Diethyl Ether
Concen: 1.165 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.012 min
Lab File: VY022882.D
Acq: 30 Jun 2025 16:02

Tgt Ion: 74 Resp: 1942
Ion Ratio Lower Upper
74 100
45 99.4 45.9 137.6

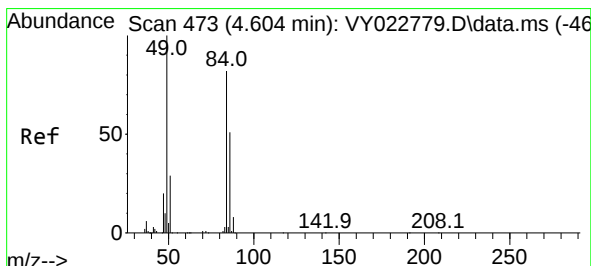
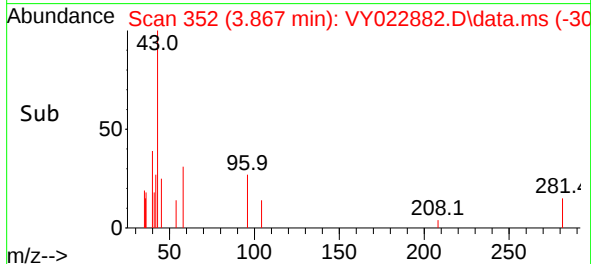
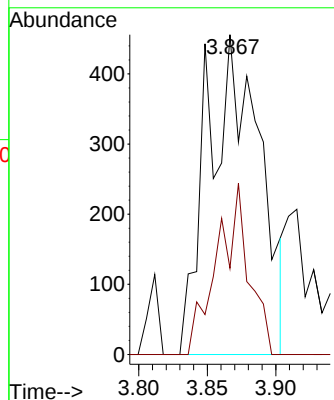
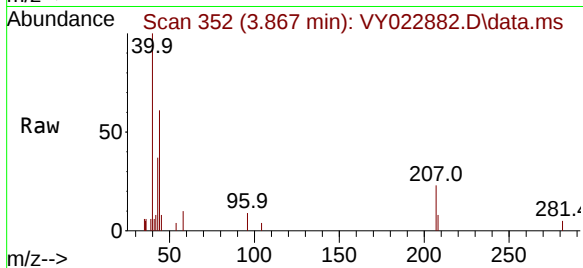




#16
Acetone
Concen: 1.911 ug/l
RT: 3.867 min Scan# 316
Delta R.T. -0.012 min
Lab File: VY022882.D
Acq: 30 Jun 2025 16:02

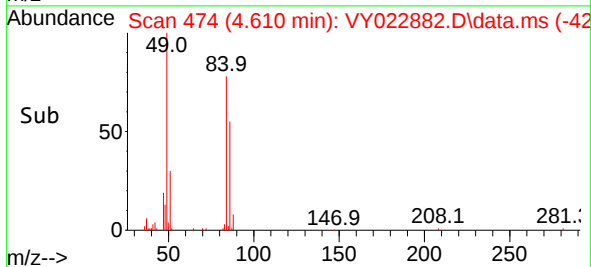
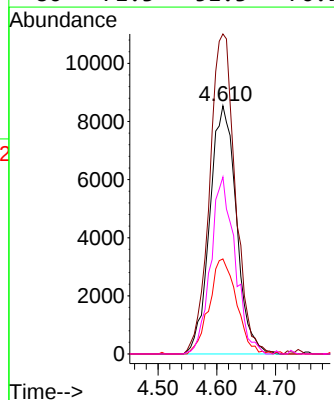
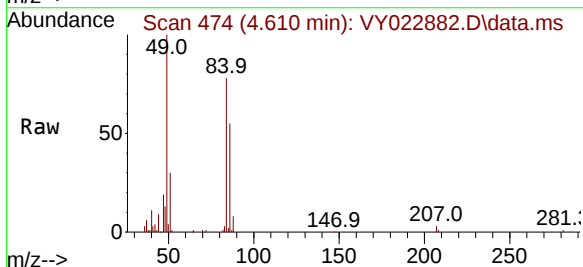
Instrument :
MSVOA_Y
ClientSampleId :
RBR200032

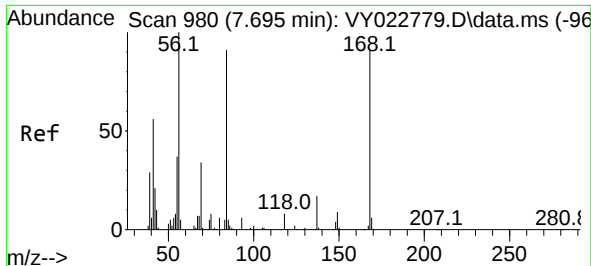
Tgt Ion: 43 Resp: 1204
Ion Ratio Lower Upper
43 100
58 27.0 24.0 36.0



#20
Methylene Chloride
Concen: 6.749 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY022882.D
Acq: 30 Jun 2025 16:02

Tgt Ion: 84 Resp: 26858
Ion Ratio Lower Upper
84 100
49 128.9 101.9 152.9
51 38.3 29.8 44.8
86 71.3 51.3 76.9

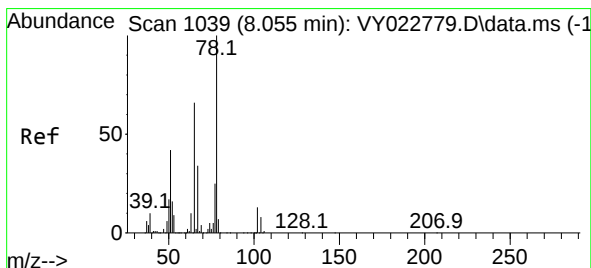
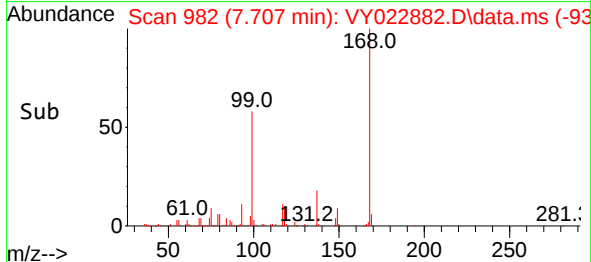
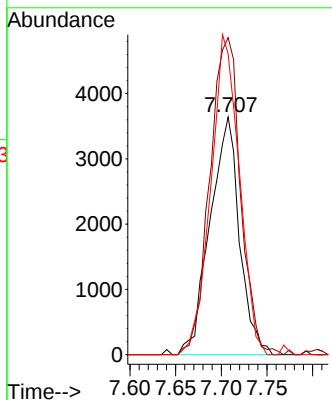
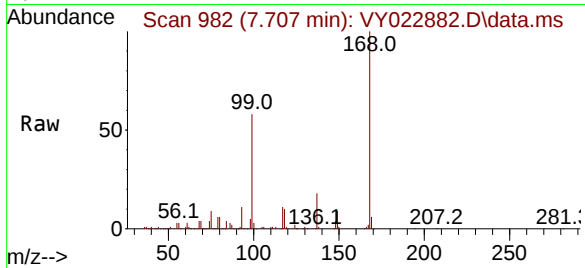




#31
Cyclohexane
Concen: 1.425 ug/l
RT: 7.707 min Scan# 980
Delta R.T. 0.000 min
Lab File: VY022882.D
Acq: 30 Jun 2025 16:02

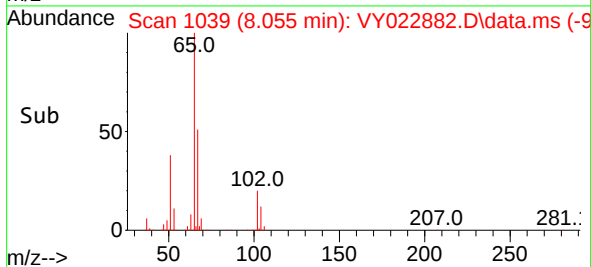
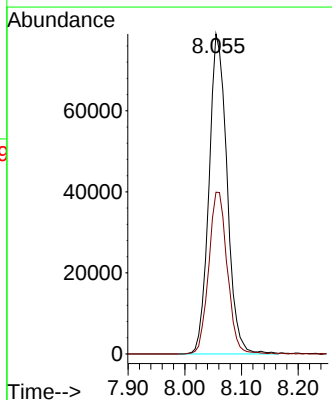
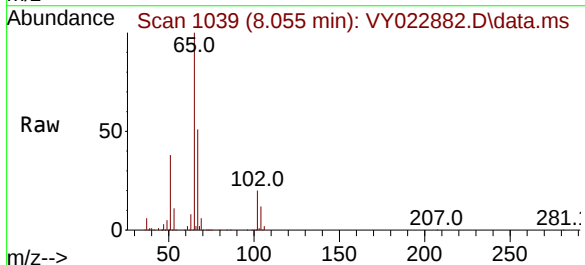
Instrument :
MSVOA_Y
ClientSampleId :
RBR200032

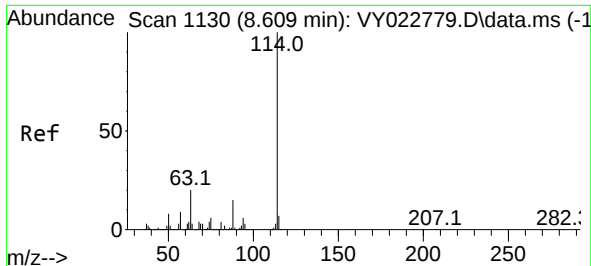
Tgt Ion: 56 Resp: 8162
Ion Ratio Lower Upper
56 100
69 133.5 27.0 40.6#
84 126.5 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 52.467 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.012 min
Lab File: VY022882.D
Acq: 30 Jun 2025 16:02

Tgt Ion: 65 Resp: 174934
Ion Ratio Lower Upper
65 100
67 51.9 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022882.D

Acq: 30 Jun 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

RBR200032

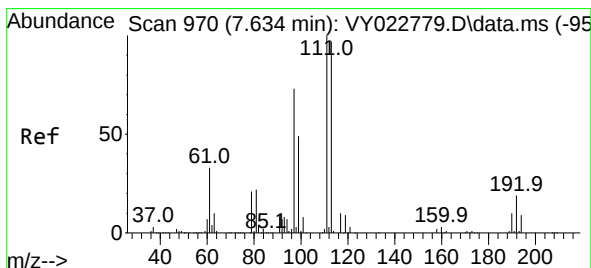
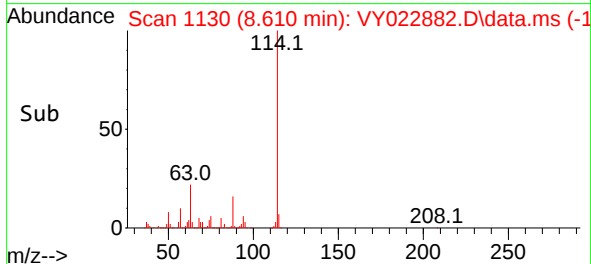
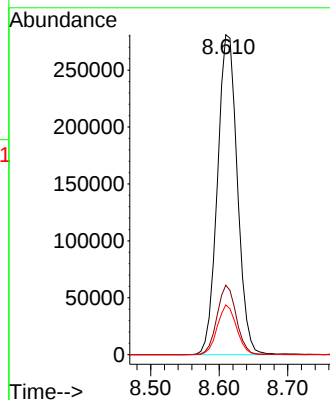
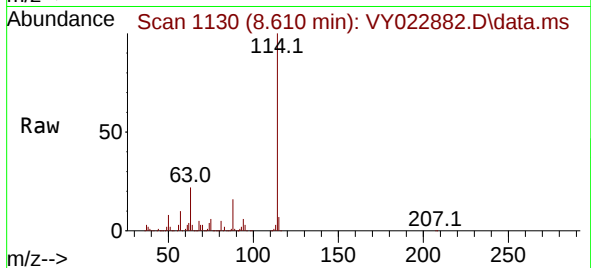
Tgt Ion:114 Resp: 565547

Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.8

88 15.5 0.0 27.8



#35

Dibromofluoromethane

Concen: 51.382 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.012 min

Lab File: VY022882.D

Acq: 30 Jun 2025 16:02

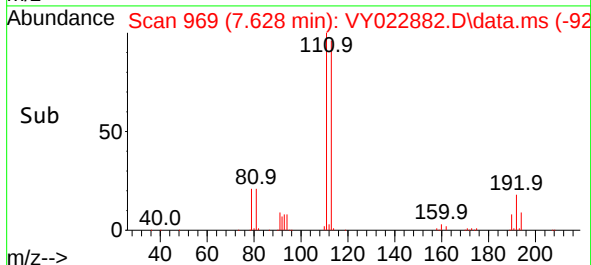
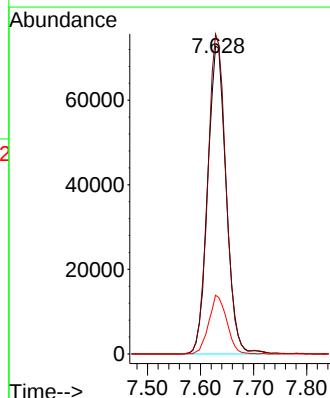
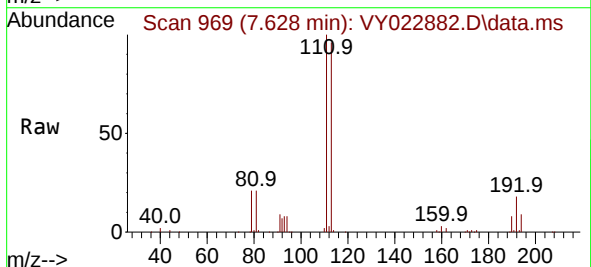
Tgt Ion:113 Resp: 176723

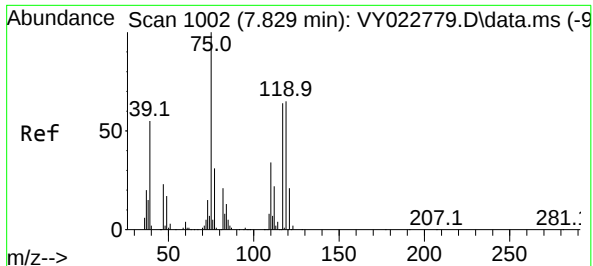
Ion Ratio Lower Upper

113 100

111 101.8 81.1 121.7

192 18.5 14.2 21.2





#36

1,1-Dichloropropene

Concen: 5.021 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY022882.D

Acq: 30 Jun 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

RBR200032

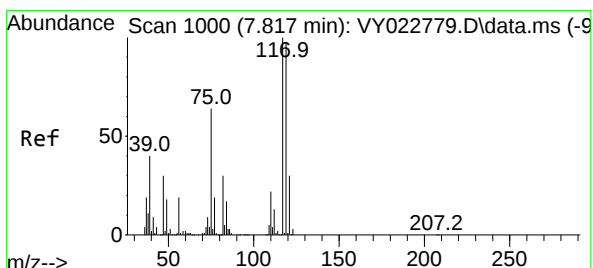
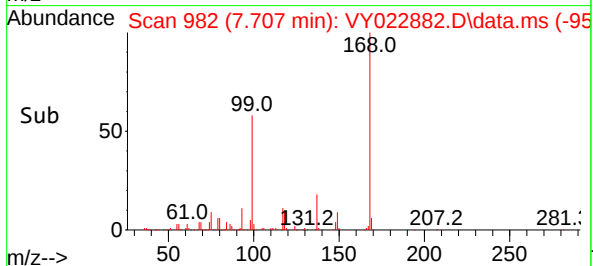
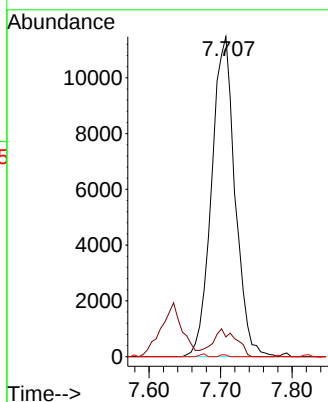
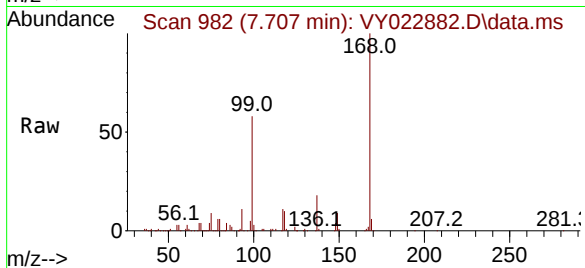
Tgt Ion: 75 Resp: 26178

Ion Ratio Lower Upper

75 100

110 8.7 16.9 50.7#

77 0.2 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 5.706 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY022882.D

Acq: 30 Jun 2025 16:02

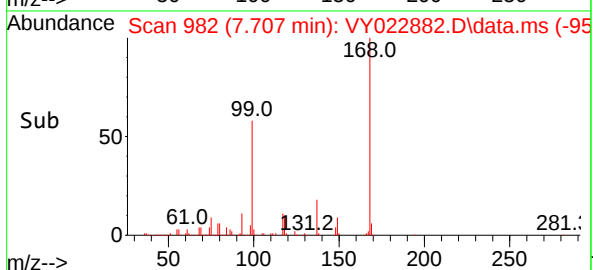
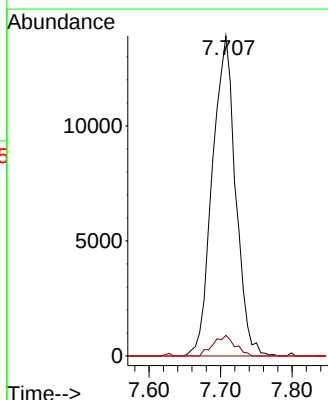
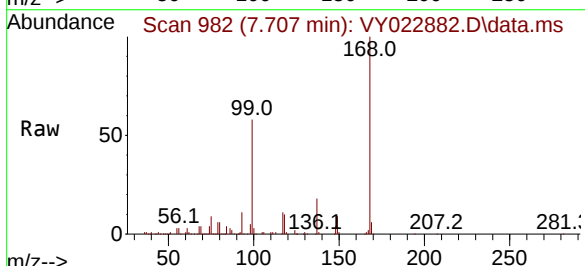
Tgt Ion: 117 Resp: 31385

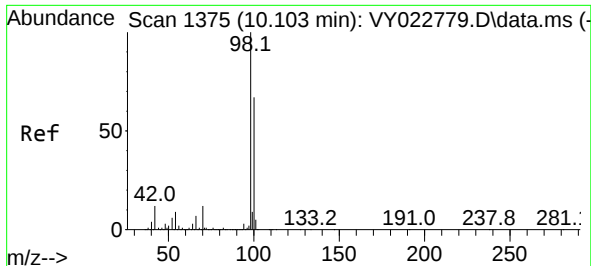
Ion Ratio Lower Upper

117 100

119 6.5 75.0 112.6#

121 0.0 25.0 37.4#

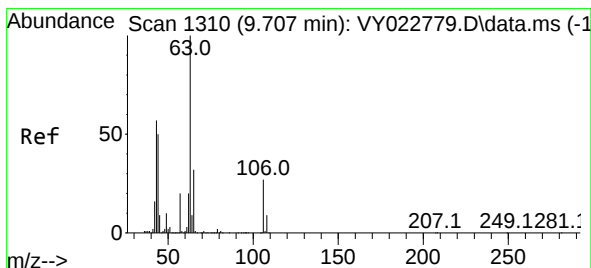
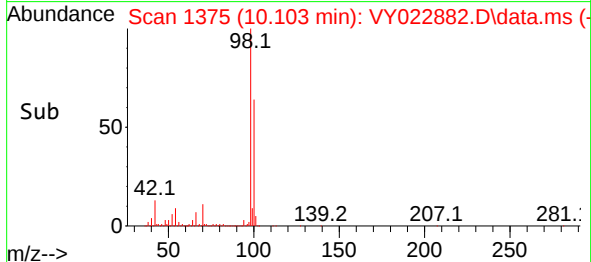
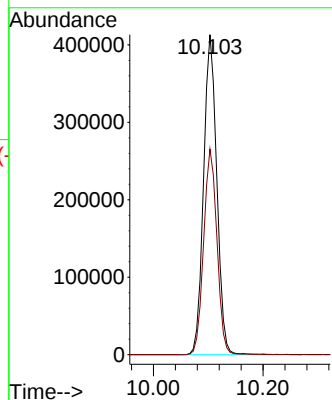
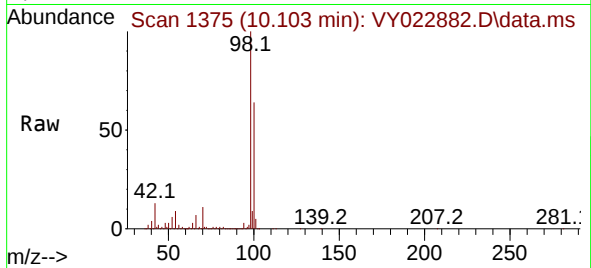




#50
Toluene-d8
Concen: 50.650 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022882.D
Acq: 30 Jun 2025 16:02

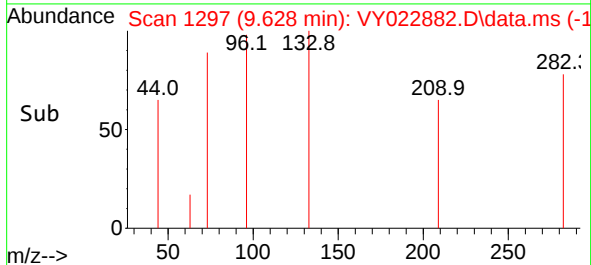
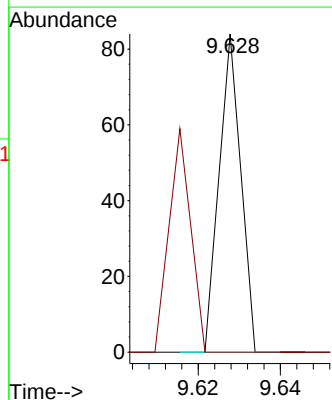
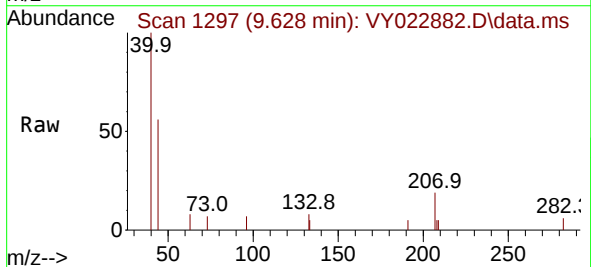
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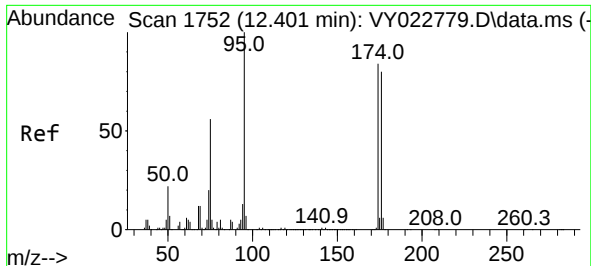
Tgt Ion: 98 Resp: 691265
Ion Ratio Lower Upper
98 100
100 64.7 51.4 77.0



#58
2-Chloroethyl Vinyl ether
Concen: 15.670 ug/l
RT: 9.628 min Scan# 1297
Delta R.T. -0.085 min
Lab File: VY022882.D
Acq: 30 Jun 2025 16:02

Tgt Ion: 63 Resp: 31
Ion Ratio Lower Upper
63 100
106 71.0 21.6 32.4#





#62

4-Bromofluorobenzene

Concen: 56.866 ug/l

RT: 12.402 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY022882.D

Acq: 30 Jun 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

RBR200032

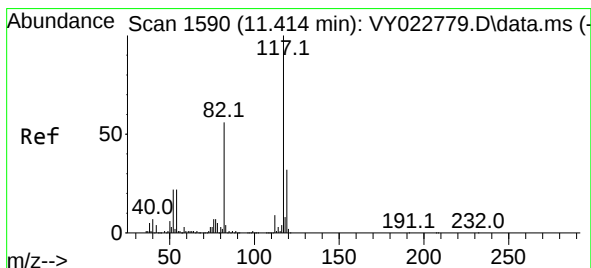
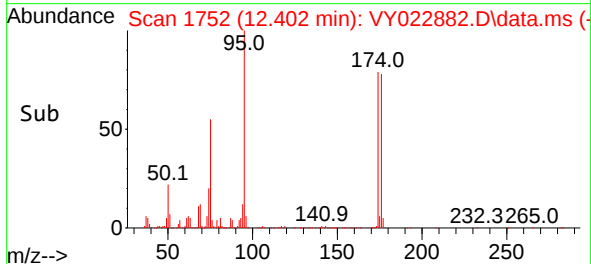
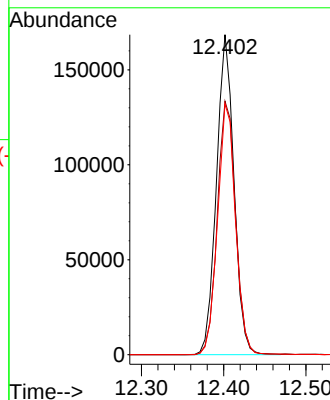
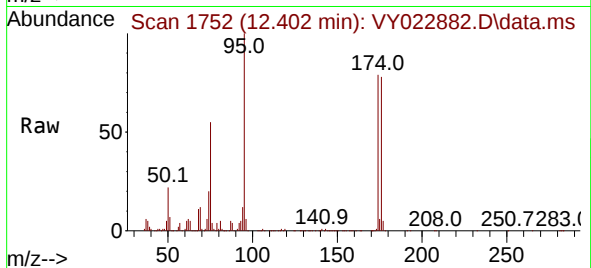
Tgt Ion: 95 Resp: 249495

Ion Ratio Lower Upper

95 100

174 83.1 0.0 170.0

176 80.4 0.0 166.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY022882.D

Acq: 30 Jun 2025 16:02

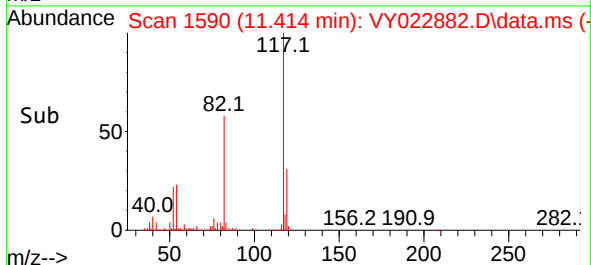
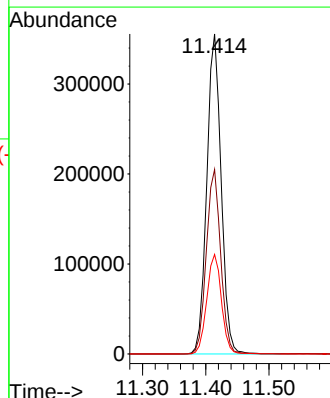
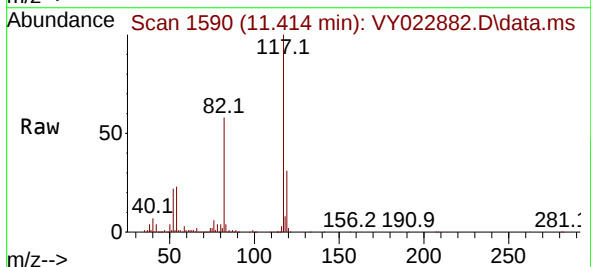
Tgt Ion: 117 Resp: 561474

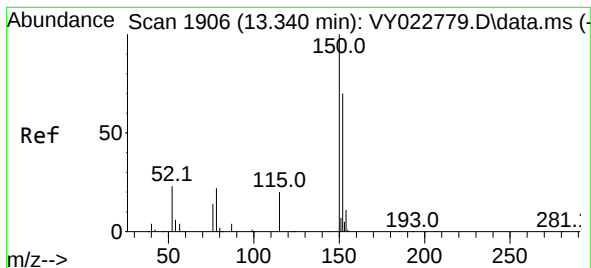
Ion Ratio Lower Upper

117 100

82 57.7 44.6 66.8

119 31.1 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY022882.D

Acq: 30 Jun 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

RBR200032

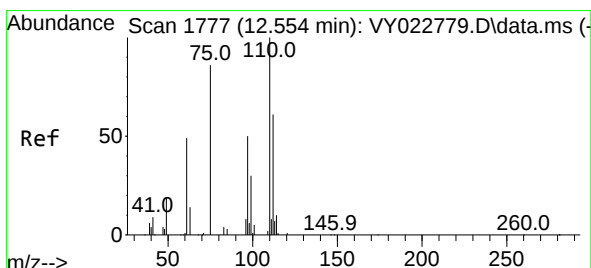
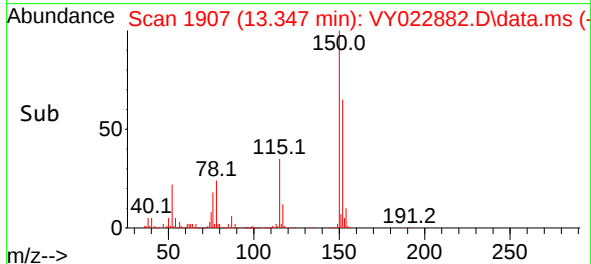
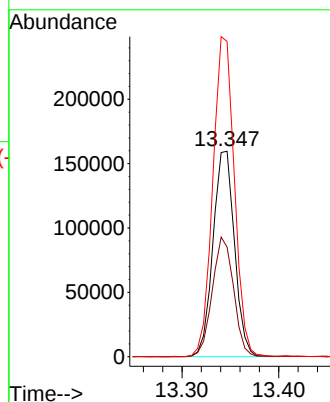
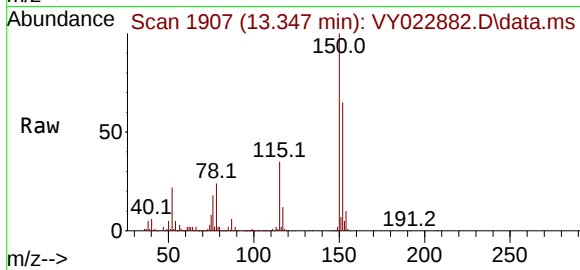
Tgt Ion:152 Resp: 246923

Ion Ratio Lower Upper

152 100

115 57.6 28.9 86.7

150 155.7 0.0 349.6



#76

1,2,3-Trichloropropane

Concen: 55.246 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY022882.D

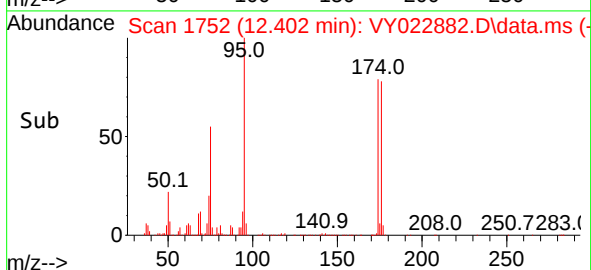
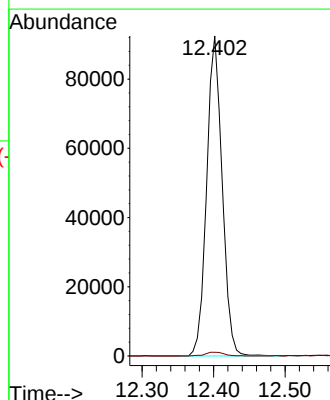
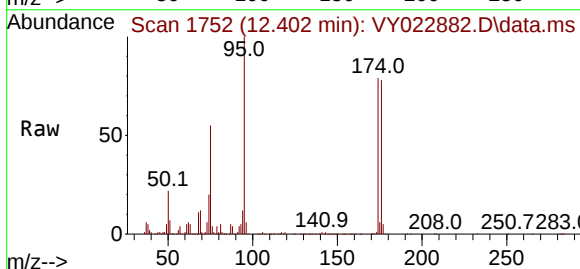
Acq: 30 Jun 2025 16:02

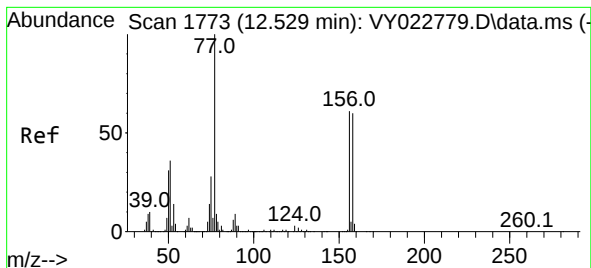
Tgt Ion: 75 Resp: 139267

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#77

Bromobenzene

Concen: 1.271 ug/l

RT: 12.597 min Scan# 1752

Delta R.T. 0.061 min

Lab File: VY022882.D

Acq: 30 Jun 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

RBR200032

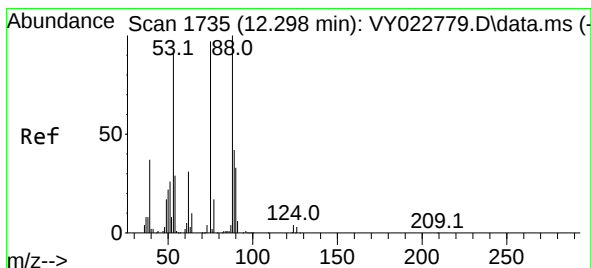
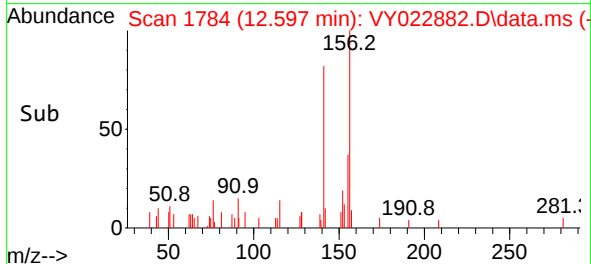
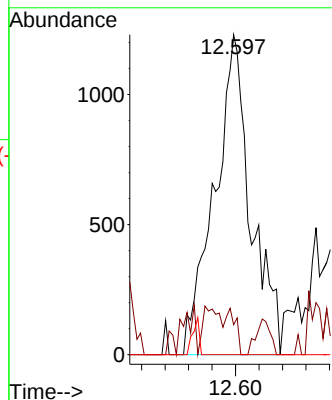
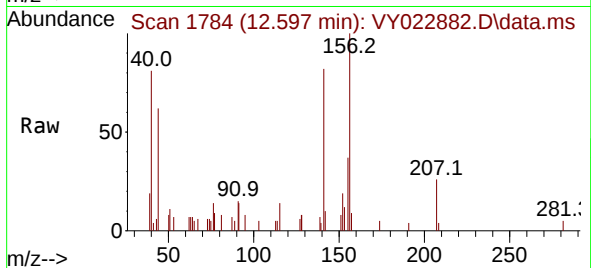
Tgt Ion:156 Resp: 5260

Ion Ratio Lower Upper

156 100

77 0.0 94.0 282.1#

158 0.0 48.2 144.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 139.572 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.098 min

Lab File: VY022882.D

Acq: 30 Jun 2025 16:02

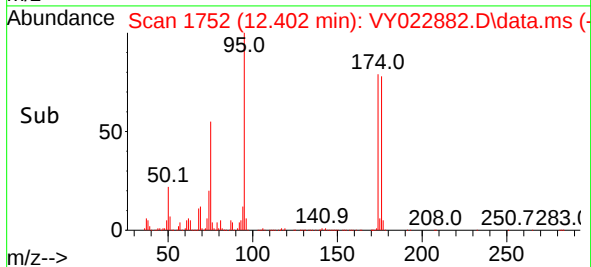
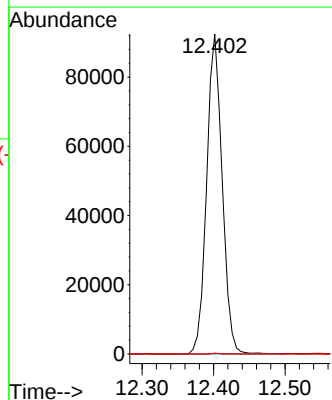
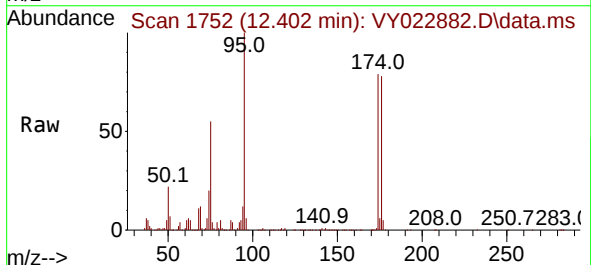
Tgt Ion: 75 Resp: 139267

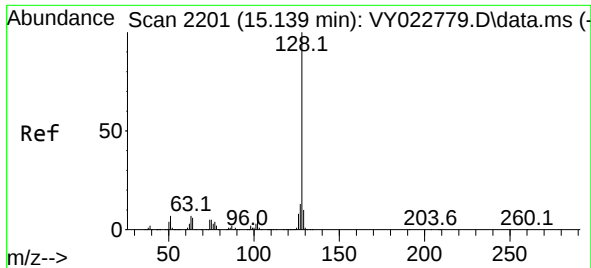
Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.1 35.7 53.5#





#95

Naphthalene

Concen: 1.334 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY022882.D

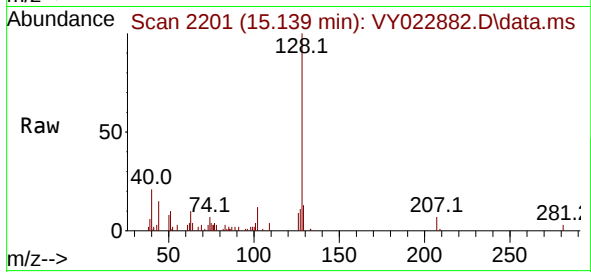
Acq: 30 Jun 2025 16:02

Instrument :

MSVOA_Y

ClientSampleId :

RBR200032



Tgt Ion:128 Resp: 9975

Ion Ratio Lower Upper

128 100

127 13.8 10.4 15.6

129 11.9 8.9 13.3

