

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
 Data File : VY022361.D
 Acq On : 21 May 2025 12:47
 Operator : SY/MD
 Sample : Q2097-03
 Misc : 5.69g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR200044

Quant Time: May 22 00:08:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

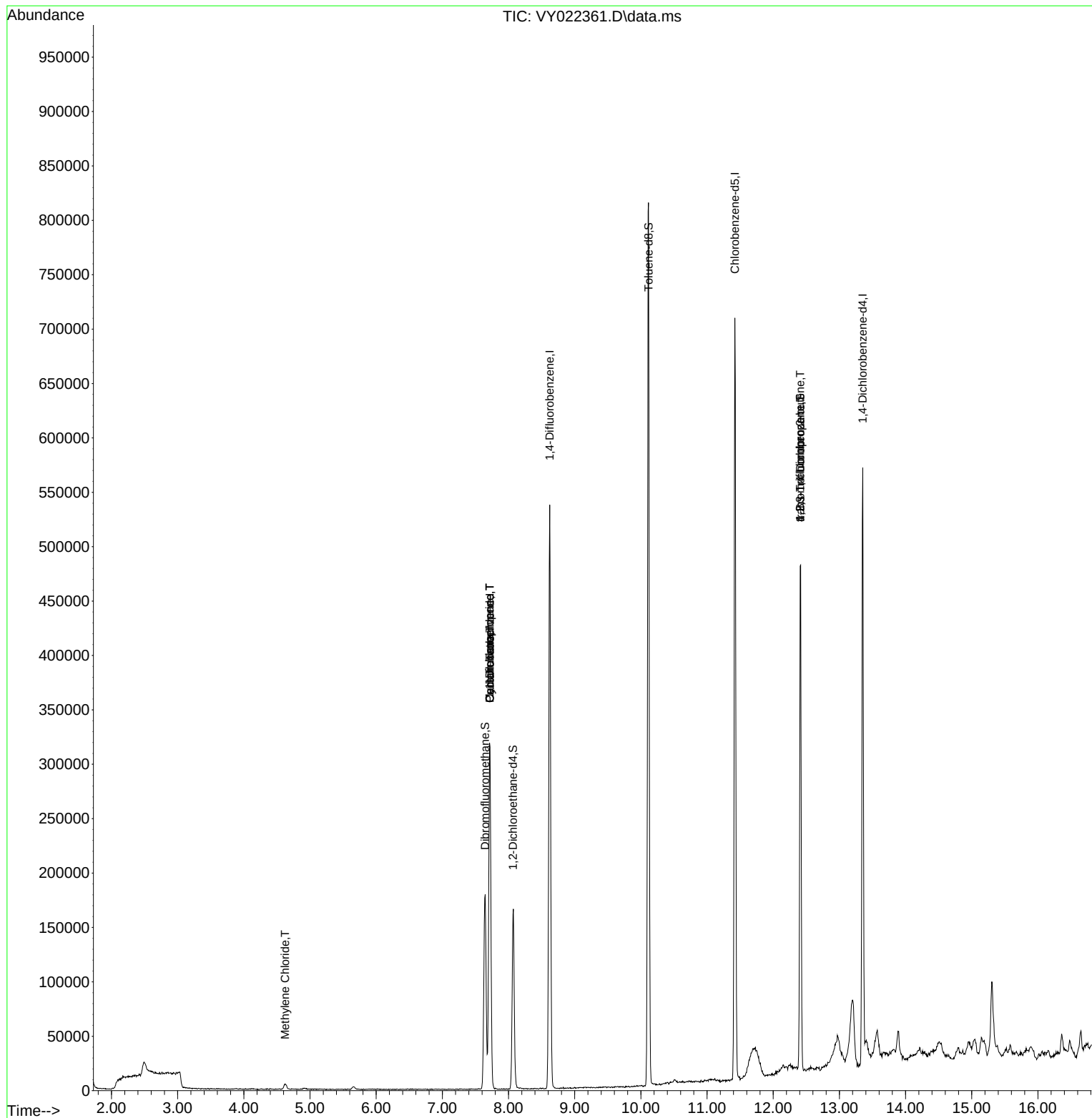
Internal Standards						
1) Pentafluorobenzene	7.719	168	242475	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	433527	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	346345	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	126868	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	121175	45.726	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	91.460%		
35) Dibromofluoromethane	7.646	113	127298	49.196	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.400%		
50) Toluene-d8	10.115	98	518850	48.960	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.920%		
62) 4-Bromofluorobenzene	12.408	95	131271	39.080	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	78.160%		
Target Compounds						
					Qvalue	
20) Methylene Chloride	4.622	84	3215	1.001	ug/l #	82
31) Cyclohexane	7.719	56	6565	1.225	ug/l #	37
36) 1,1-Dichloropropene	7.713	75	21087	4.948	ug/l #	50
38) Carbon Tetrachloride	7.719	117	25514	5.783	ug/l #	16
76) 1,2,3-Trichloropropane	12.408	75	76951	59.870	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	76951	121.281	ug/l #	12

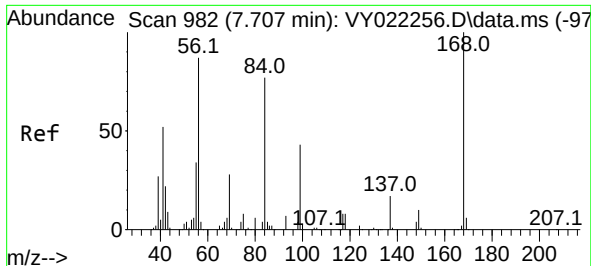
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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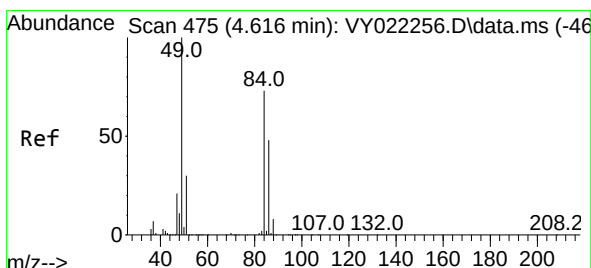
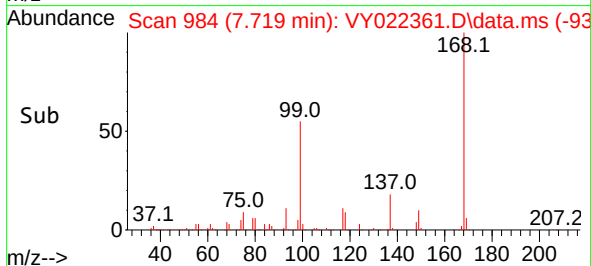
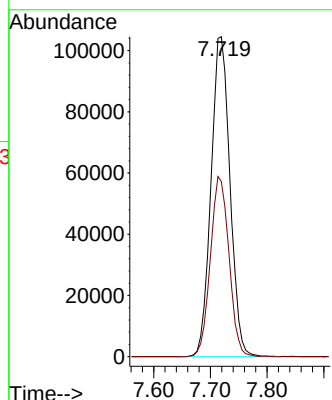
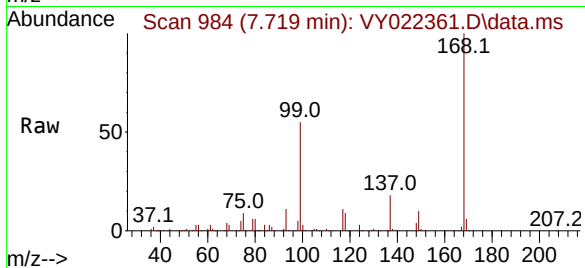




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 984
Delta R.T. 0.012 min
Lab File: VY022361.D
Acq: 21 May 2025 12:47

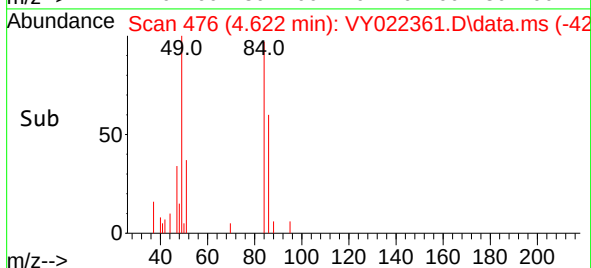
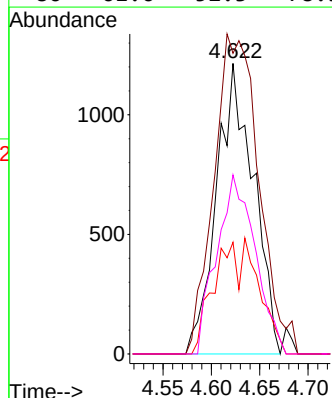
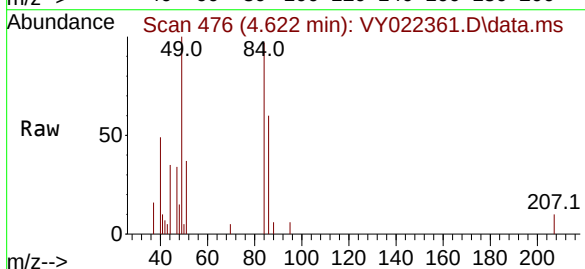
Instrument :
MSVOA_Y
ClientSampleId :
RBR200044

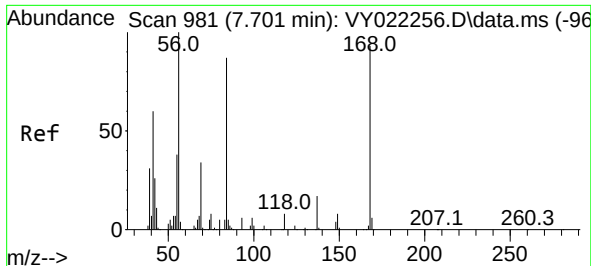
Tgt Ion:168 Resp: 242475
Ion Ratio Lower Upper
168 100
99 54.8 44.2 66.4



#20
Methylene Chloride
Concen: 1.001 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY022361.D
Acq: 21 May 2025 12:47

Tgt Ion: 84 Resp: 3215
Ion Ratio Lower Upper
84 100
49 103.5 109.6 164.4#
51 38.4 32.4 48.6
86 61.6 52.3 78.5

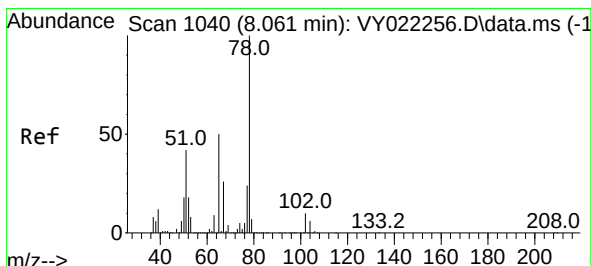
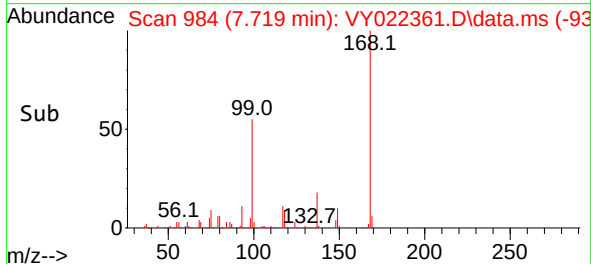
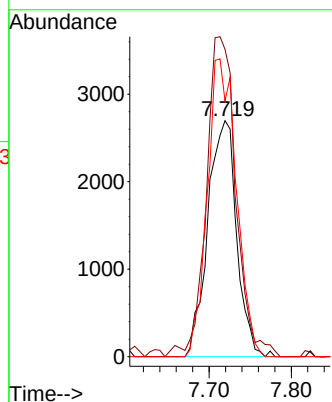
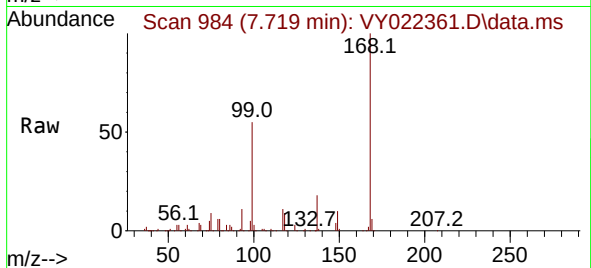




#31
Cyclohexane
Concen: 1.225 ug/l
RT: 7.719 min Scan# 981
Delta R.T. 0.018 min
Lab File: VY022361.D
Acq: 21 May 2025 12:47

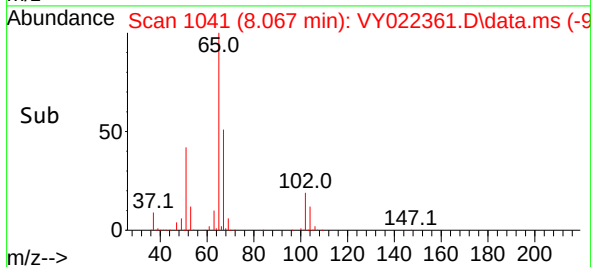
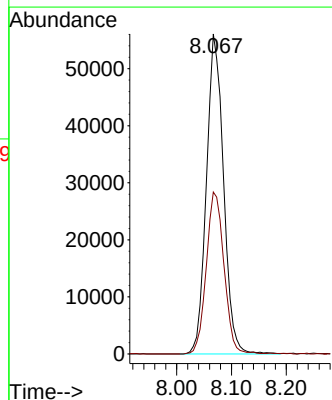
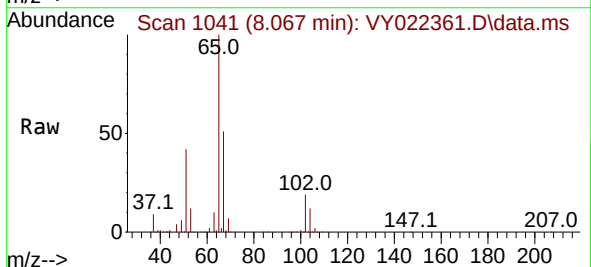
Instrument :
MSVOA_Y
ClientSampleId :
RBR200044

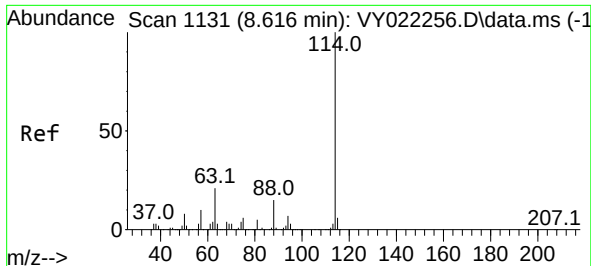
Tgt Ion: 56 Resp: 6565
Ion Ratio Lower Upper
56 100
69 130.2 27.4 41.2#
84 108.4 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 45.726 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022361.D
Acq: 21 May 2025 12:47

Tgt Ion: 65 Resp: 121175
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY022361.D

Acq: 21 May 2025 12:47

Instrument :

MSVOA_Y

ClientSampleId :

RBR200044

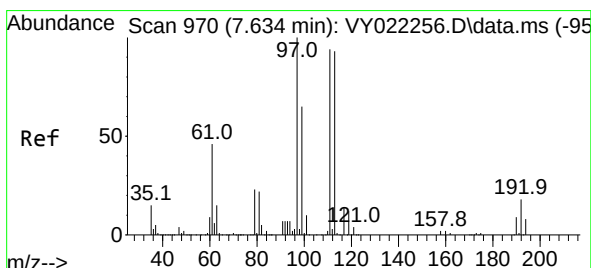
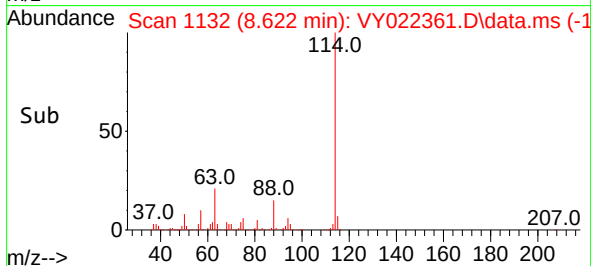
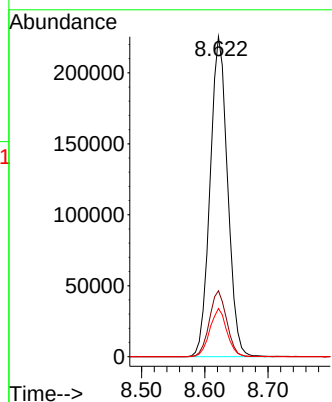
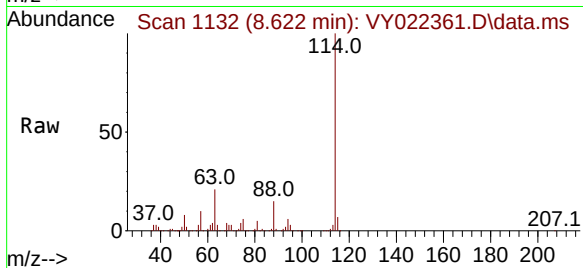
Tgt Ion:114 Resp: 433527

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.0

88 15.1 0.0 29.4



#35

Dibromofluoromethane

Concen: 49.196 ug/l

RT: 7.646 min Scan# 972

Delta R.T. 0.012 min

Lab File: VY022361.D

Acq: 21 May 2025 12:47

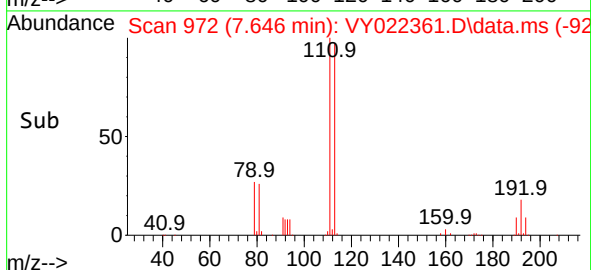
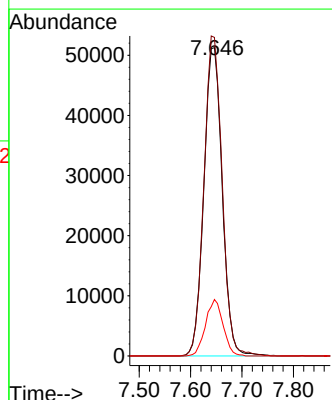
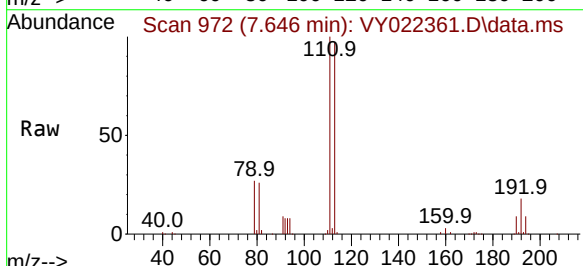
Tgt Ion:113 Resp: 127298

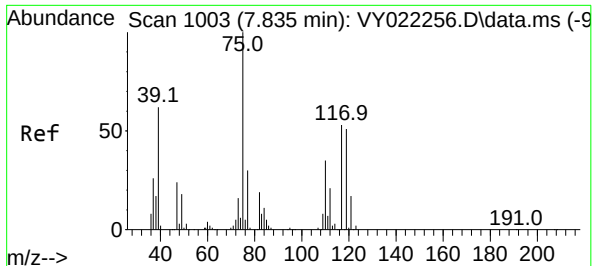
Ion Ratio Lower Upper

113 100

111 102.5 82.6 123.8

192 17.5 15.2 22.8

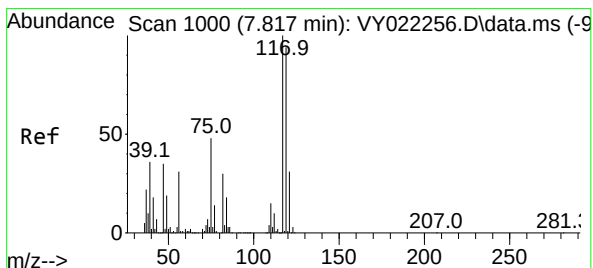
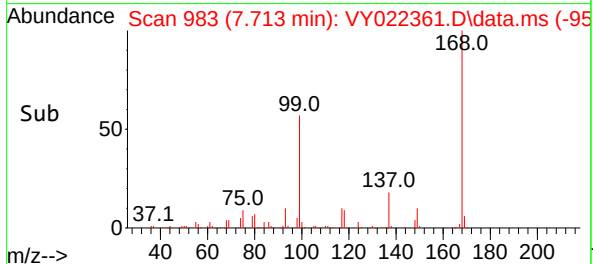
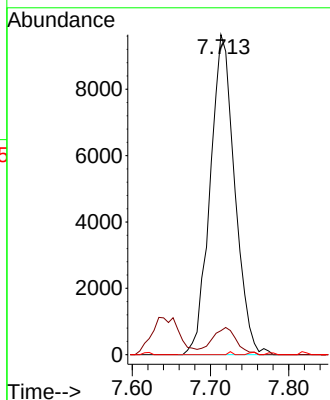
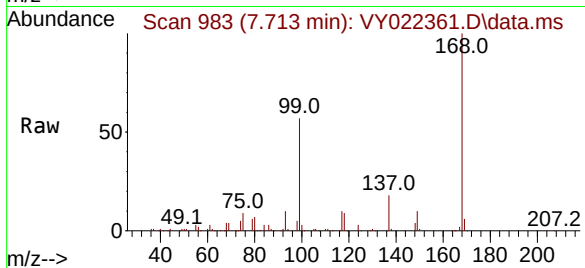




#36
1,1-Dichloropropene
Concen: 4.948 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY022361.D
Acq: 21 May 2025 12:47

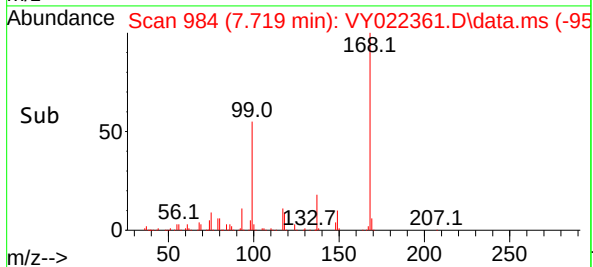
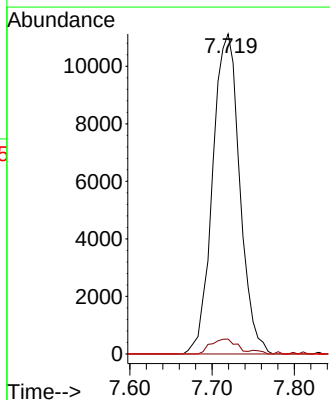
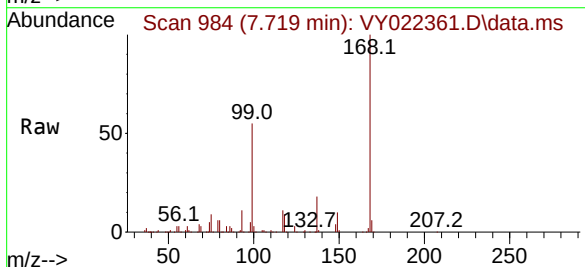
Instrument :
MSVOA_Y
ClientSampleId :
RBR200044

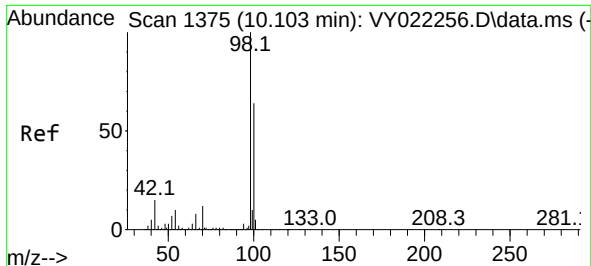
Tgt Ion: 75 Resp: 21087
Ion Ratio Lower Upper
75 100
110 8.5 16.6 49.8#
77 0.2 24.6 37.0#



#38
Carbon Tetrachloride
Concen: 5.783 ug/l
RT: 7.719 min Scan# 984
Delta R.T. -0.098 min
Lab File: VY022361.D
Acq: 21 May 2025 12:47

Tgt Ion: 117 Resp: 25514
Ion Ratio Lower Upper
117 100
119 4.6 75.3 112.9#
121 0.0 24.7 37.1#

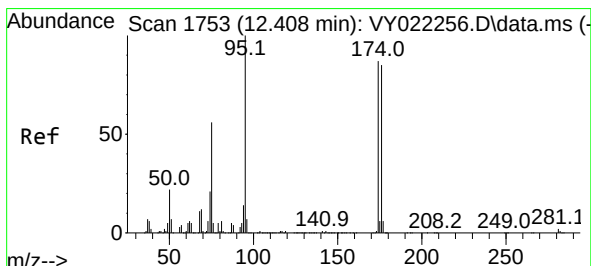
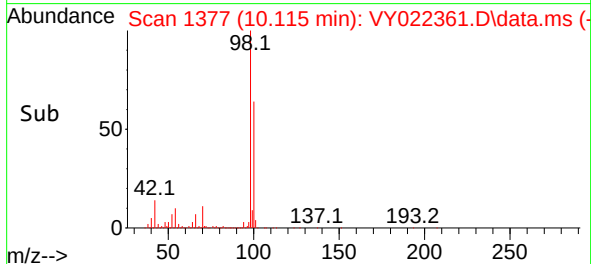
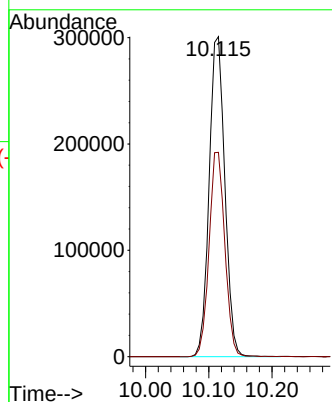
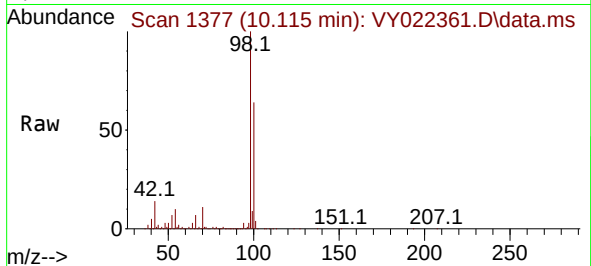




#50
Toluene-d8
Concen: 48.960 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022361.D
Acq: 21 May 2025 12:47

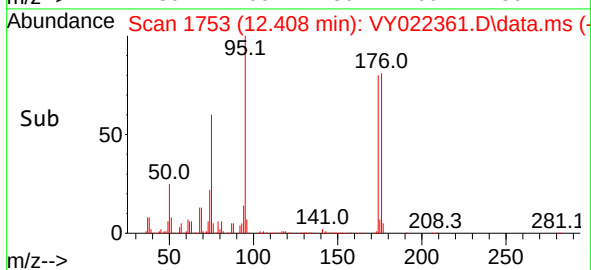
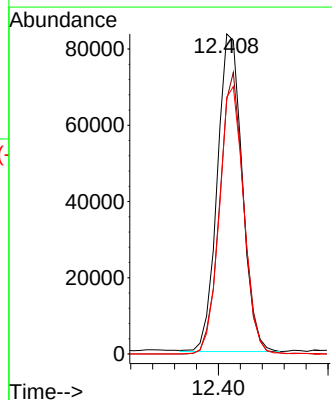
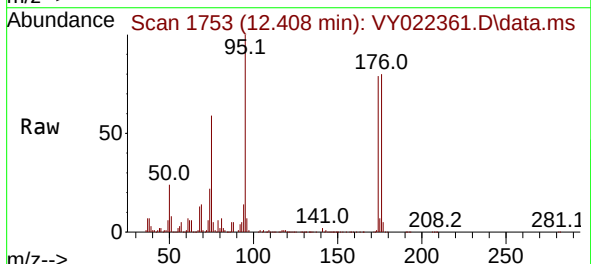
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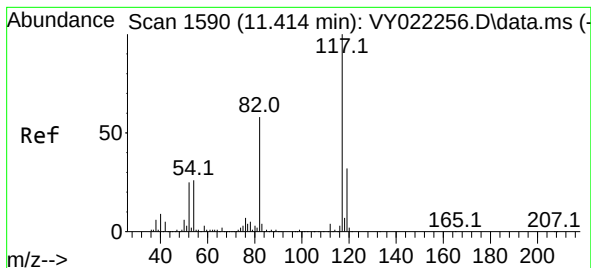
Tgt Ion: 98 Resp: 518850
Ion Ratio Lower Upper
98 100
100 64.2 51.8 77.8



#62
4-Bromofluorobenzene
Concen: 39.080 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022361.D
Acq: 21 May 2025 12:47

Tgt Ion: 95 Resp: 131271
Ion Ratio Lower Upper
95 100
174 84.9 0.0 166.8
176 82.7 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 117

Delta R.T. 0.006 min

Lab File: VY022361.D

Acq: 21 May 2025 12:47

Instrument :

MSVOA_Y

ClientSampleId :

RBR200044

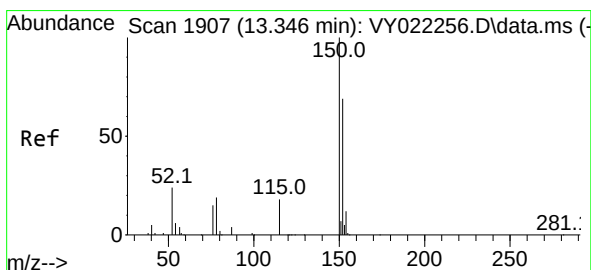
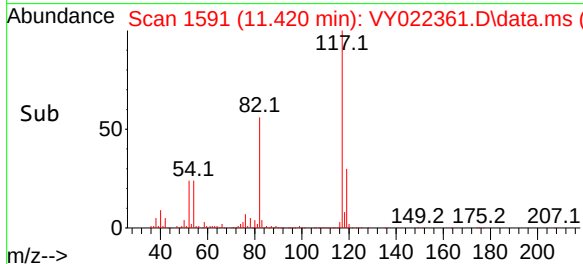
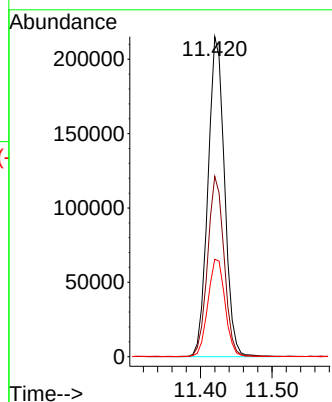
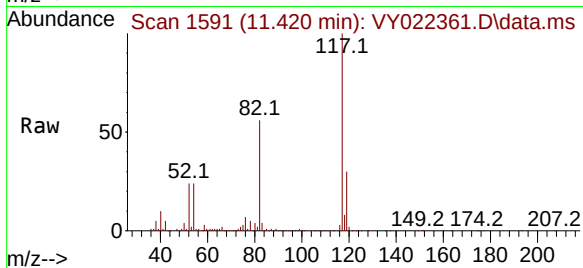
Tgt Ion:117 Resp: 346345

Ion Ratio Lower Upper

117 100

82 56.3 46.6 70.0

119 30.4 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY022361.D

Acq: 21 May 2025 12:47

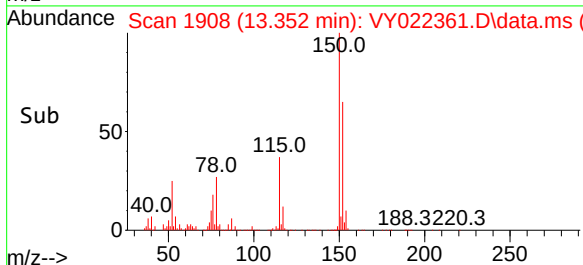
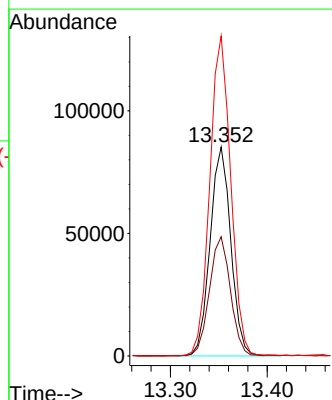
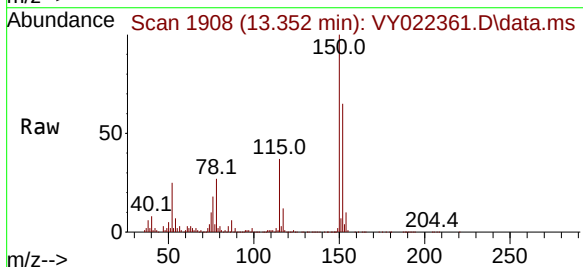
Tgt Ion:152 Resp: 126868

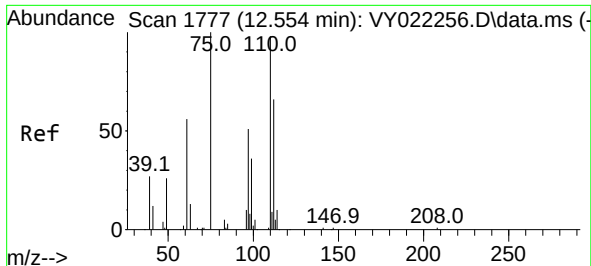
Ion Ratio Lower Upper

152 100

115 57.7 29.4 88.2

150 154.7 0.0 353.8

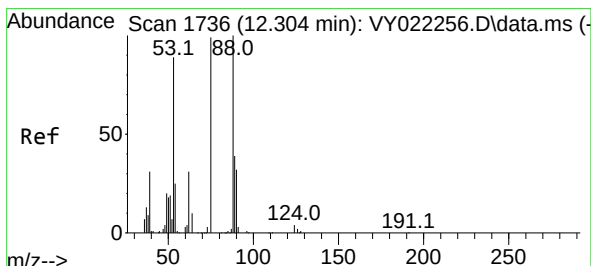
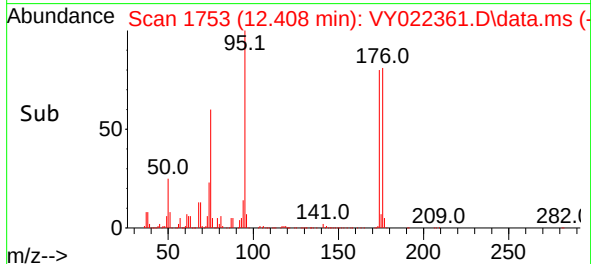
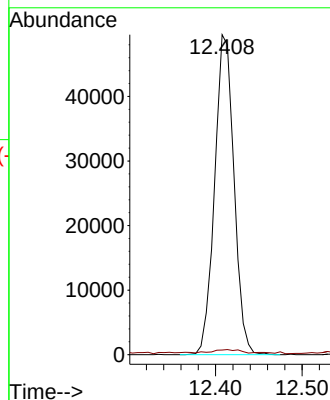
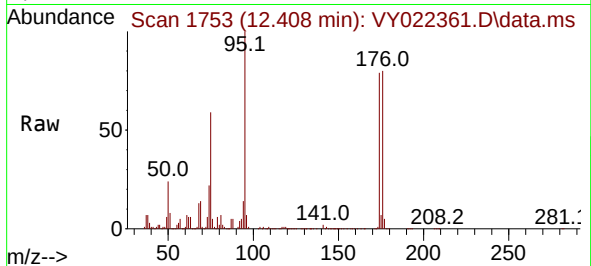




#76
1,2,3-Trichloropropane
Concen: 59.870 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY022361.D
Acq: 21 May 2025 12:47

Instrument :
MSVOA_Y
ClientSampleId :
RBR200044

Tgt Ion: 75 Resp: 76951
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 121.281 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY022361.D
Acq: 21 May 2025 12:47

Tgt Ion: 75 Resp: 76951
Ion Ratio Lower Upper
75 100
53 0.3 75.8 113.8#
89 0.0 36.2 54.2#

