

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062025\
 Data File : VY022768.D
 Acq On : 20 Jun 2025 17:05
 Operator : SY/MD
 Sample : Q2380-05
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR-200059

Quant Time: Jun 21 02:42:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 10 15:26:14 2025
 Response via : Initial Calibration

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

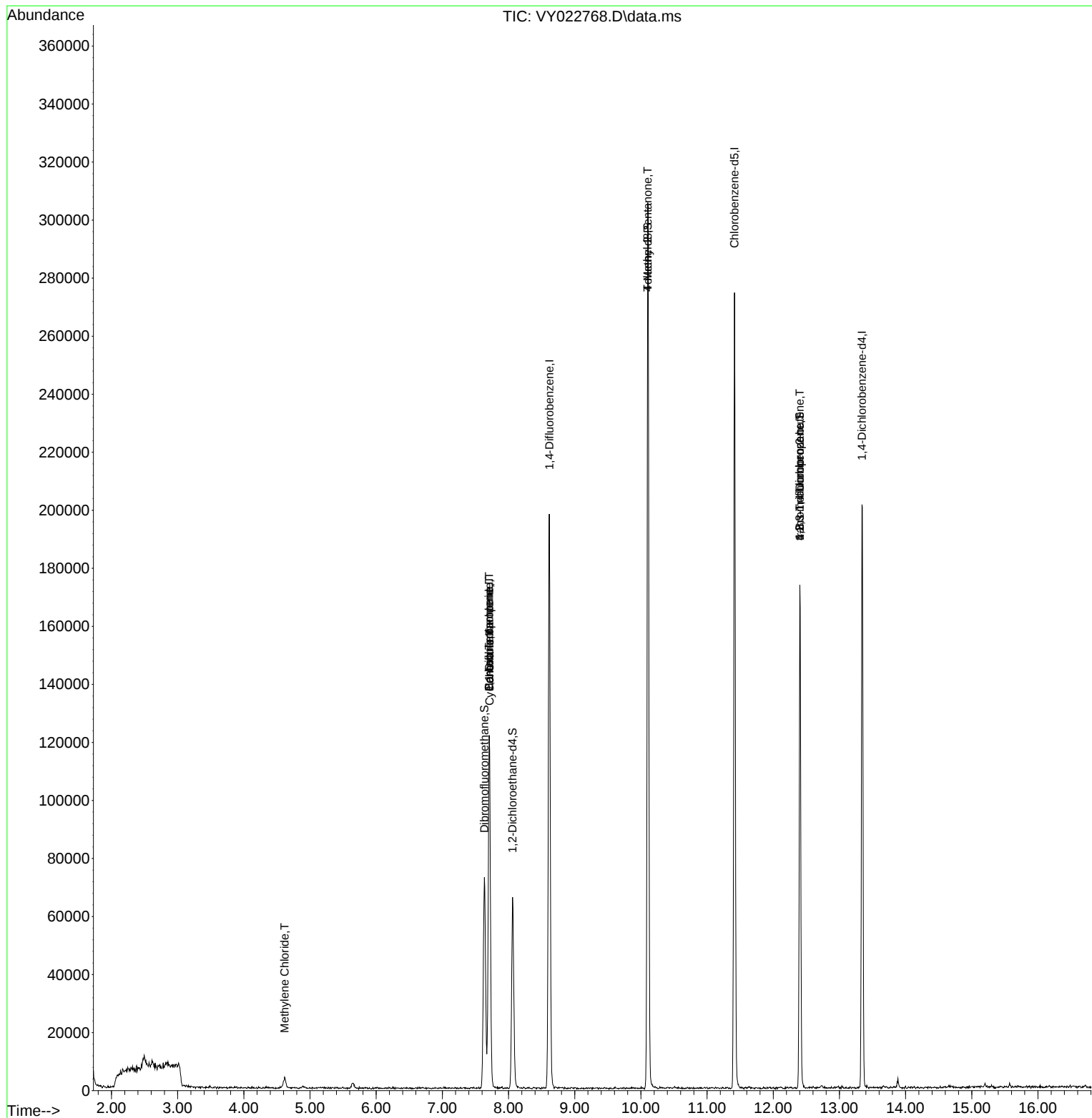
Internal Standards						
1) Pentafluorobenzene	7.707	168	90916	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	164808	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	134332	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.341	152	47524	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	48843	48.034	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.060%		
35) Dibromofluoromethane	7.634	113	49997	50.825	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	101.660%		
50) Toluene-d8	10.103	98	197182	49.608	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	99.220%		
62) 4-Bromofluorobenzene	12.402	95	47911	40.456	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	80.920%		
Target Compounds						
					Qvalue	
20) Methylene Chloride	4.616	84	2310	1.969	ug/l #	80
31) Cyclohexane	7.713	56	2645	1.354	ug/l #	53
36) 1,1-Dichloropropene	7.707	75	8199	5.135	ug/l #	48
38) Carbon Tetrachloride	7.707	117	9744	5.949	ug/l #	16
51) 4-Methyl-2-Pentanone	10.103	43	1031	1.345	ug/l #	1
76) 1,2,3-Trichloropropane	12.402	75	29014	53.365	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	29014	128.873	ug/l #	10

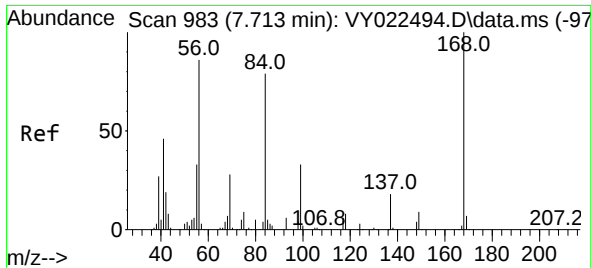
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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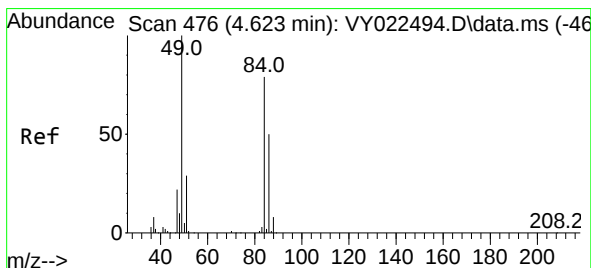
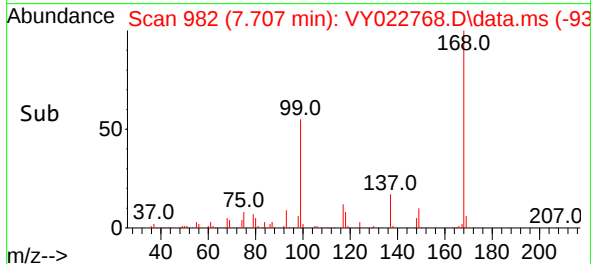
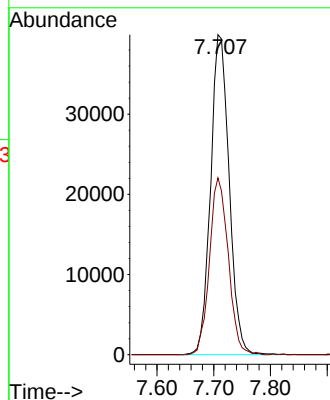
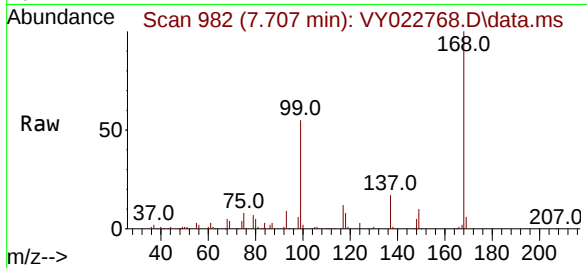




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022768.D
Acq: 20 Jun 2025 17:05

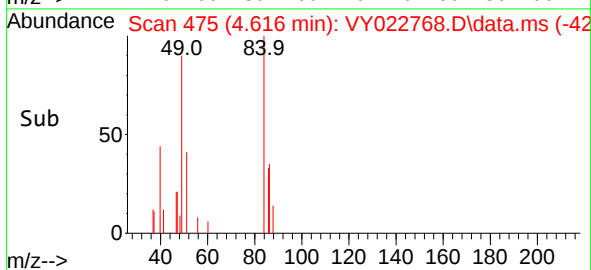
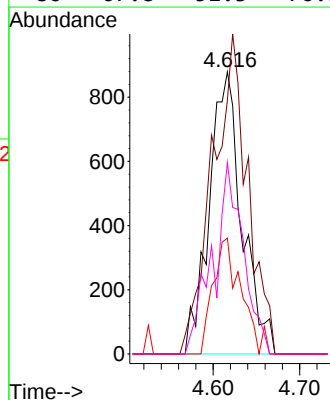
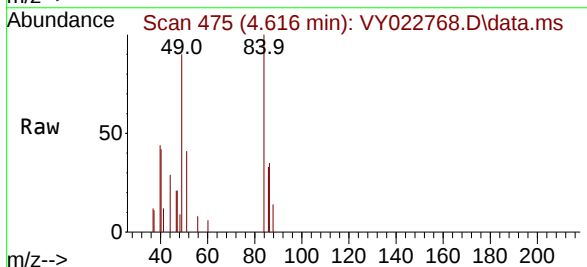
Instrument :
MSVOA_Y
ClientSampleId :
RBR-200059

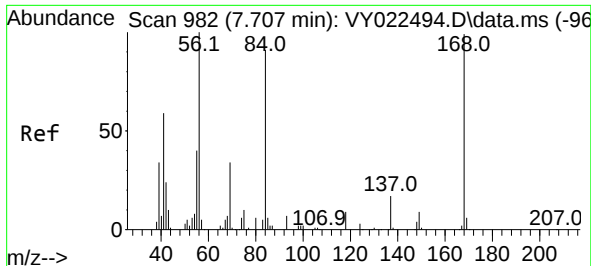
Tgt Ion:168 Resp: 90916
Ion Ratio Lower Upper
168 100
99 55.3 44.3 66.5



#20
Methylene Chloride
Concen: 1.969 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022768.D
Acq: 20 Jun 2025 17:05

Tgt Ion: 84 Resp: 2310
Ion Ratio Lower Upper
84 100
49 90.0 101.9 152.9#
51 41.1 29.8 44.8
86 67.8 51.3 76.9

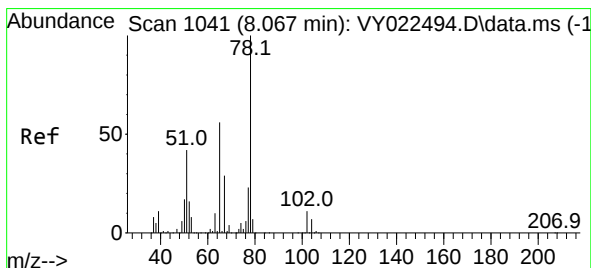
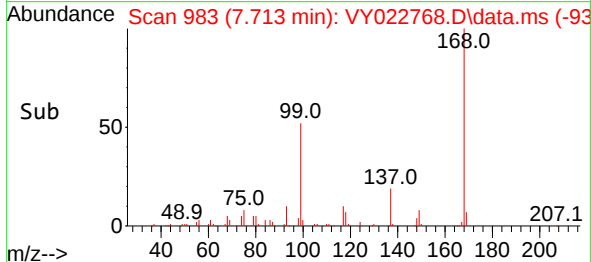
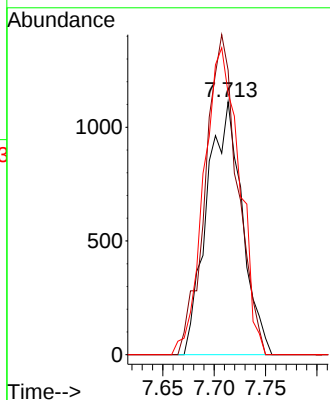
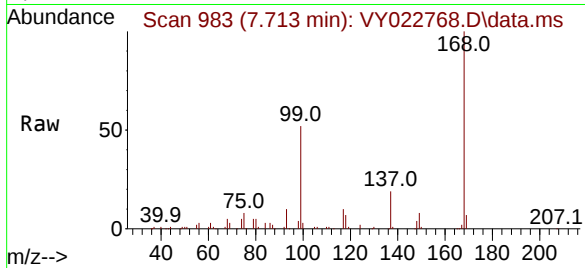




#31
Cyclohexane
Concen: 1.354 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022768.D
Acq: 20 Jun 2025 17:05

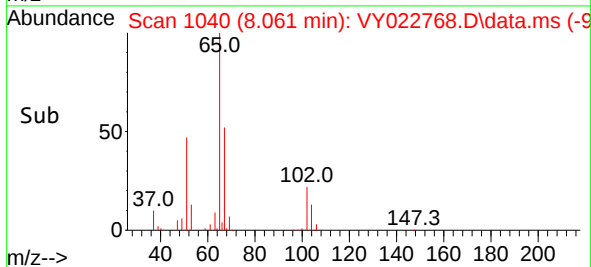
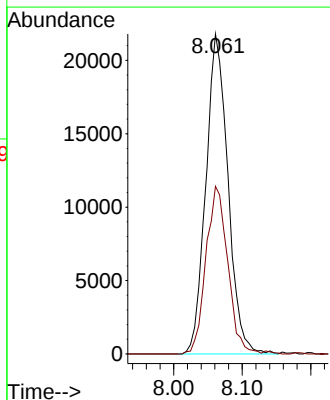
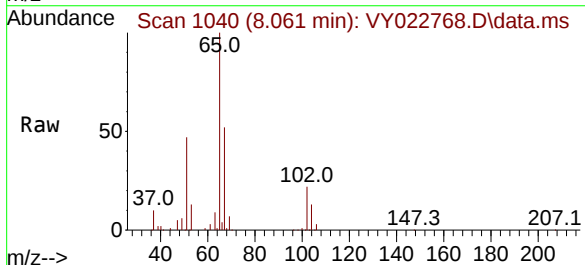
Instrument :
MSVOA_Y
ClientSampleId :
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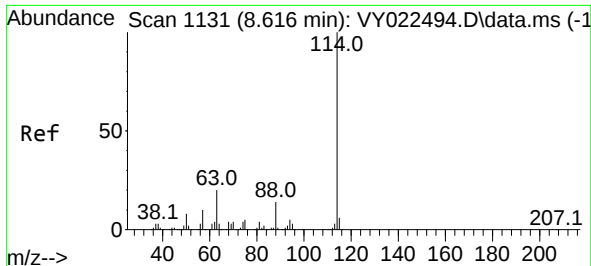
Tgt Ion: 56 Resp: 2645
Ion Ratio Lower Upper
56 100
69 112.5 27.0 40.6#
84 103.3 72.6 109.0



#33
1,2-Dichloroethane-d4
Concen: 48.034 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022768.D
Acq: 20 Jun 2025 17:05

Tgt Ion: 65 Resp: 48843
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.4

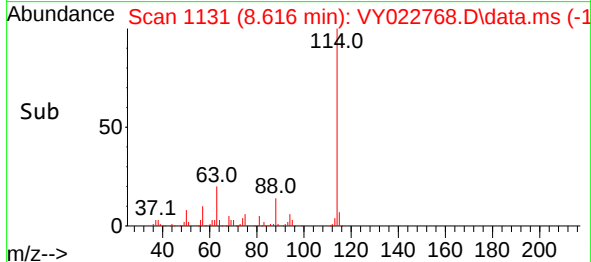
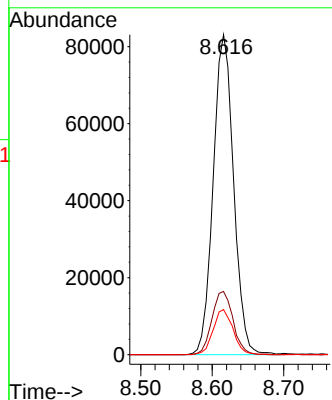
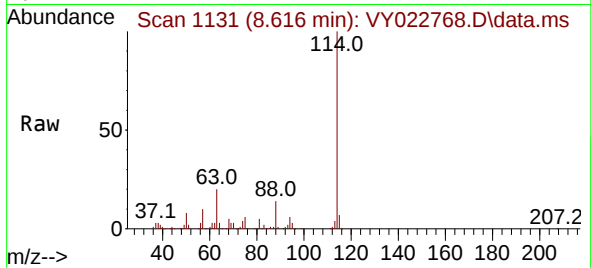




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022768.D
Acq: 20 Jun 2025 17:05

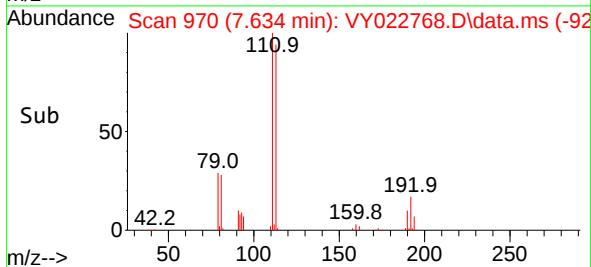
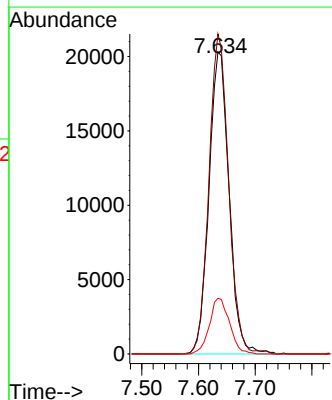
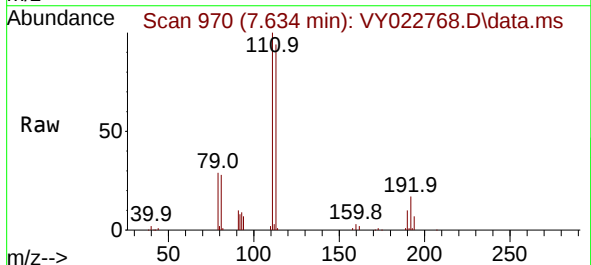
Instrument :
MSVOA_Y
ClientSampleId :
RBR-200059

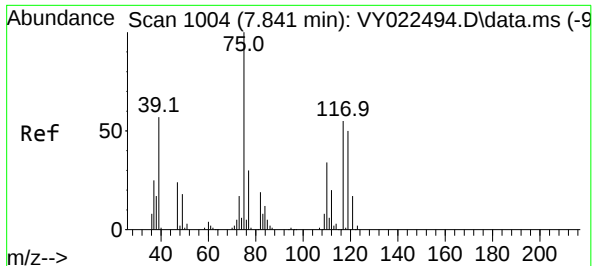
Tgt Ion:114 Resp: 164808
Ion Ratio Lower Upper
114 100
63 19.8 0.0 40.8
88 14.1 0.0 27.8



#35
Dibromofluoromethane
Concen: 50.825 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022768.D
Acq: 20 Jun 2025 17:05

Tgt Ion:113 Resp: 49997
Ion Ratio Lower Upper
113 100
111 103.8 81.1 121.7
192 18.4 14.2 21.2

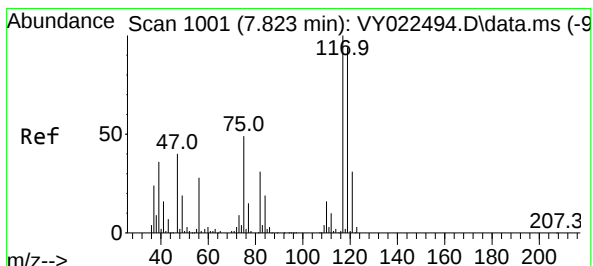
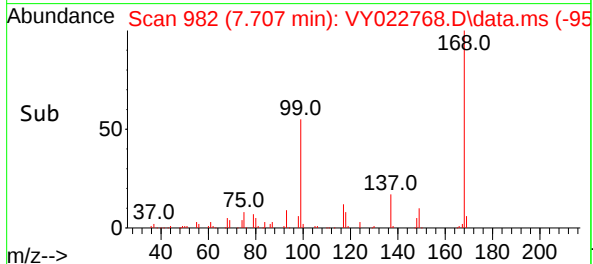
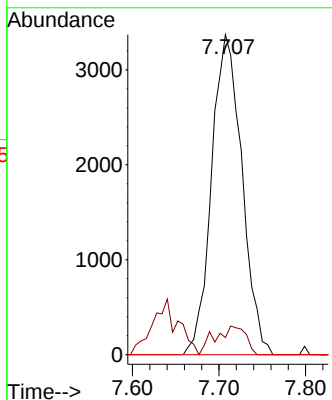
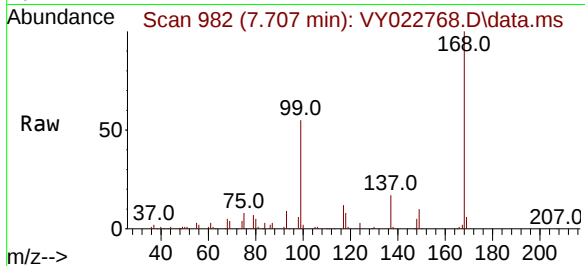




#36
 1,1-Dichloropropene
 Concen: 5.135 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.134 min
 Lab File: VY022768.D
 Acq: 20 Jun 2025 17:05

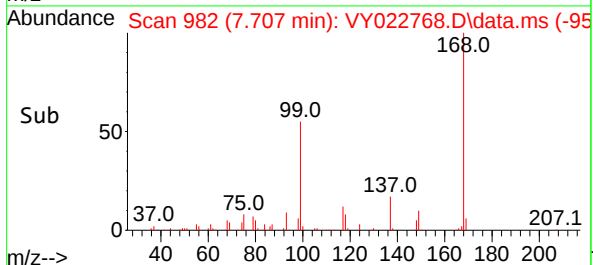
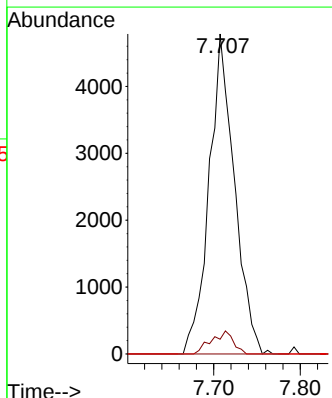
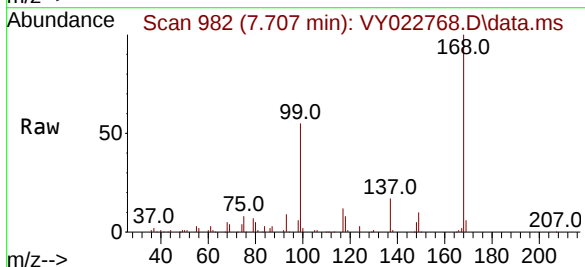
Instrument :
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 ClientSampleId :
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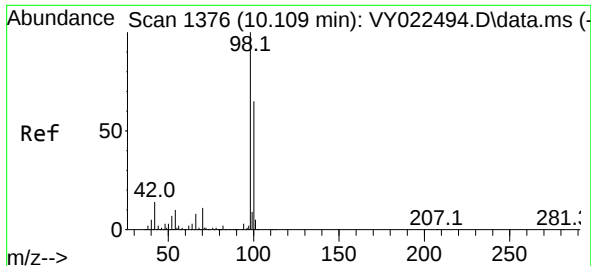
Tgt Ion: 75 Resp: 8199
 Ion Ratio Lower Upper
 75 100
 110 6.9 16.9 50.7#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 5.949 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.116 min
 Lab File: VY022768.D
 Acq: 20 Jun 2025 17:05

Tgt Ion: 117 Resp: 9744
 Ion Ratio Lower Upper
 117 100
 119 4.6 75.0 112.6#
 121 0.0 25.0 37.4#

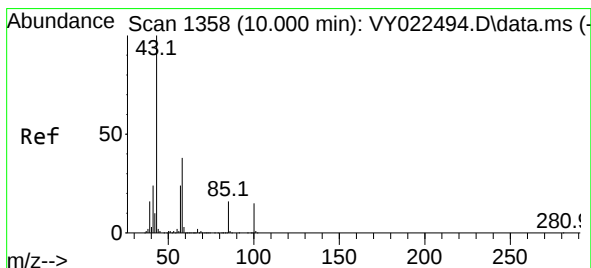
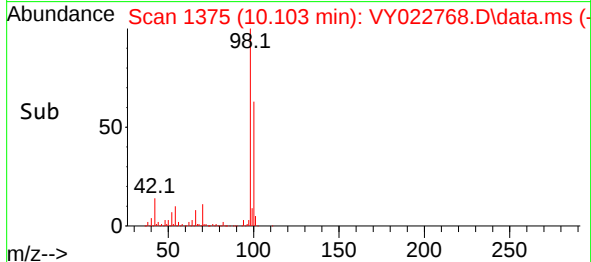
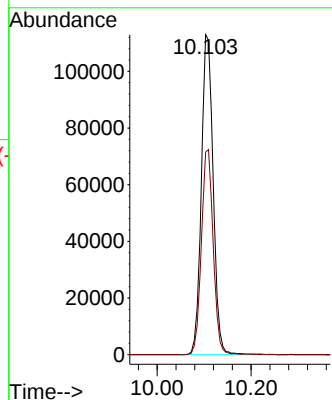
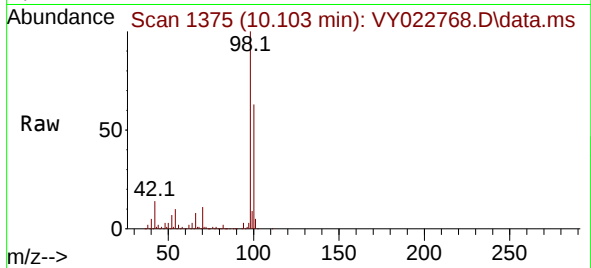




#50
Toluene-d8
Concen: 49.608 ug/l
RT: 10.103 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY022768.D
Acq: 20 Jun 2025 17:05

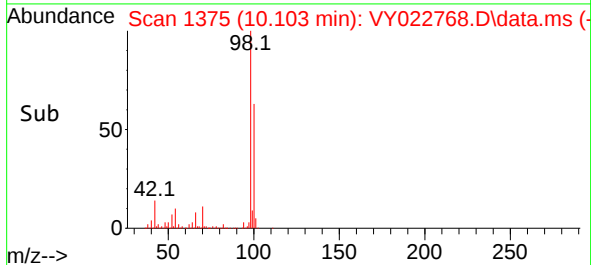
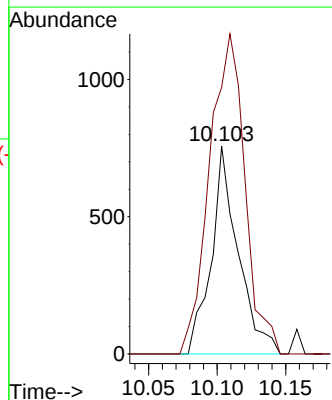
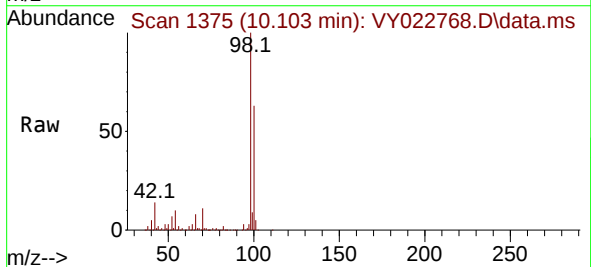
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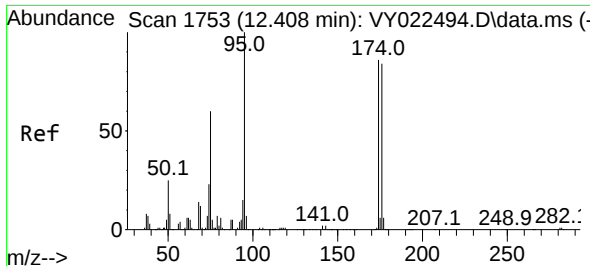
Tgt Ion: 98 Resp: 197182
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.345 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.104 min
Lab File: VY022768.D
Acq: 20 Jun 2025 17:05

Tgt Ion: 43 Resp: 1031
Ion Ratio Lower Upper
43 100
58 203.3 30.4 45.6#

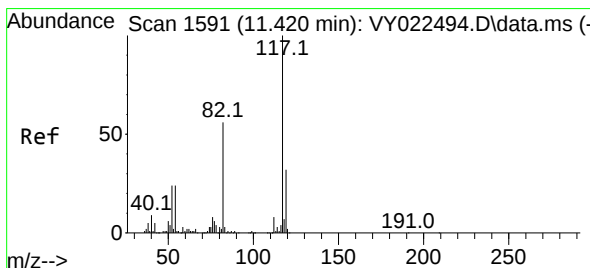
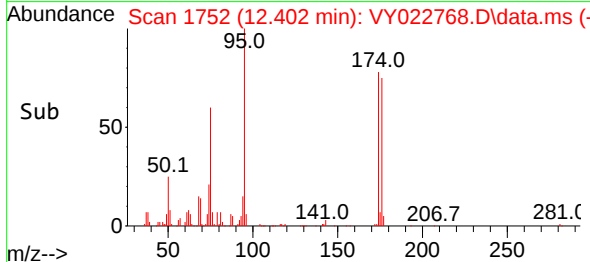
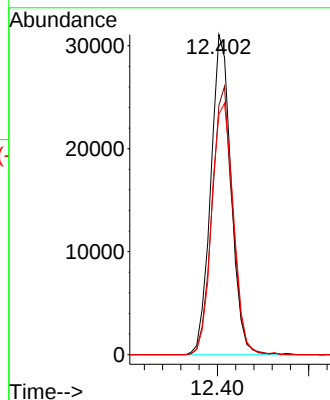
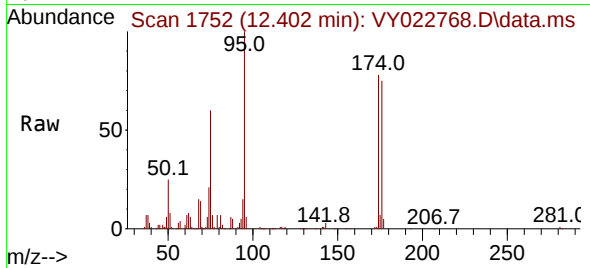




#62
4-Bromofluorobenzene
Concen: 40.456 ug/l
RT: 12.402 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022768.D
Acq: 20 Jun 2025 17:05

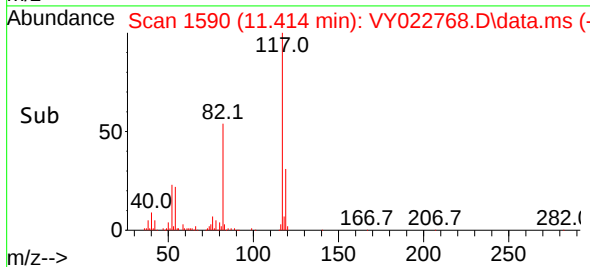
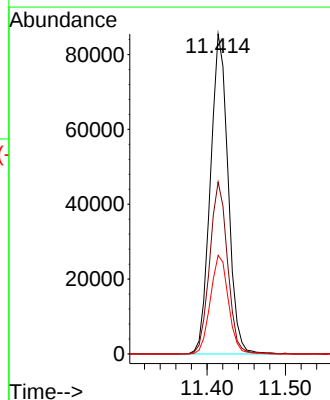
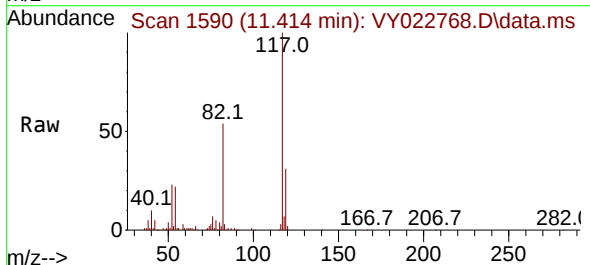
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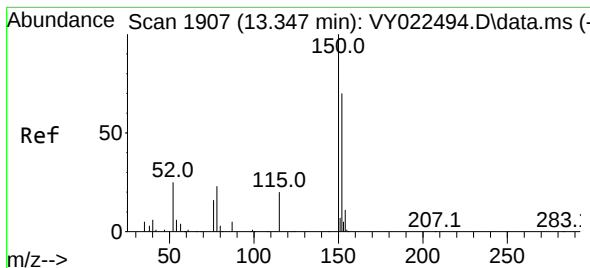
Tgt Ion: 95 Resp: 47911
Ion Ratio Lower Upper
95 100
174 84.6 0.0 170.0
176 84.5 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022768.D
Acq: 20 Jun 2025 17:05

Tgt Ion: 117 Resp: 134332
Ion Ratio Lower Upper
117 100
82 53.8 44.6 66.8
119 30.8 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.341 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY022768.D

Acq: 20 Jun 2025 17:05

Instrument :

MSVOA_Y

ClientSampleId :

RBR-200059

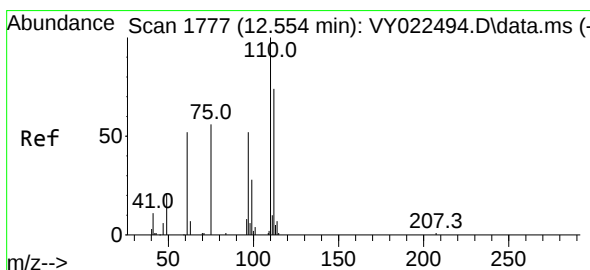
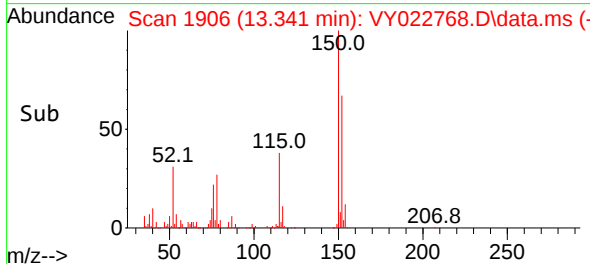
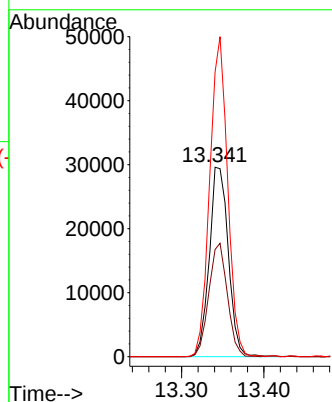
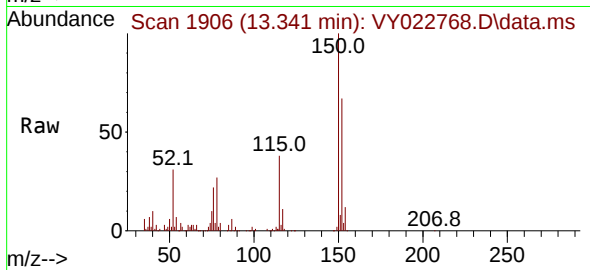
Tgt Ion:152 Resp: 47524

Ion Ratio Lower Upper

152 100

115 58.4 28.9 86.7

150 158.6 0.0 349.6



#76

1,2,3-Trichloropropane

Concen: 53.365 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY022768.D

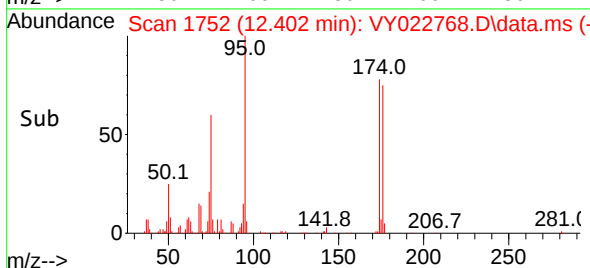
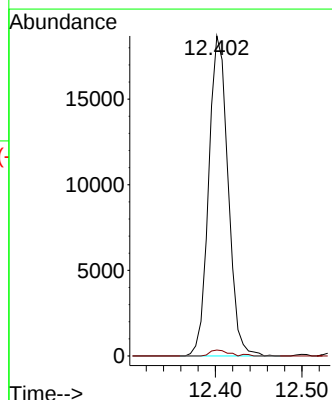
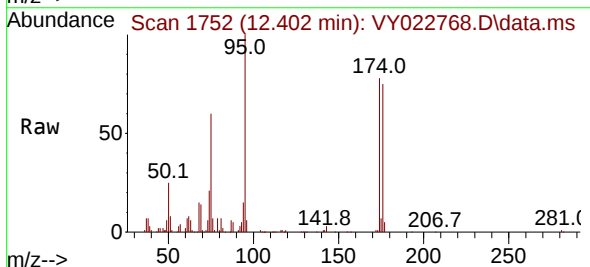
Acq: 20 Jun 2025 17:05

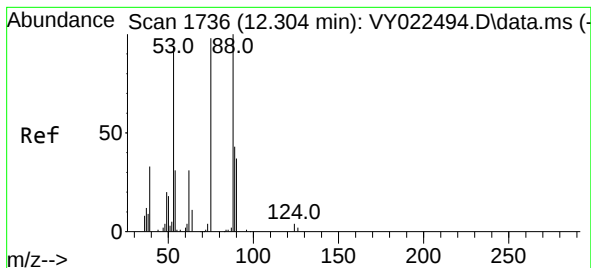
Tgt Ion: 75 Resp: 29014

Ion Ratio Lower Upper

75 100

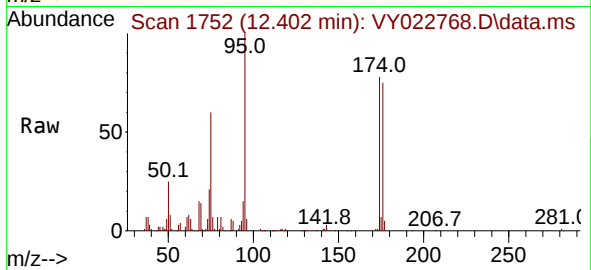
77 1.9 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 128.873 ug/l
 RT: 12.402 min Scan# 11
 Delta R.T. 0.098 min
 Lab File: VY022768.D
 Acq: 20 Jun 2025 17:05

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR-200059



Tgt Ion: 75 Resp: 29014
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 35.7 53.5#

