

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041825\
 Data File : VY021921.D
 Acq On : 18 Apr 2025 11:26
 Operator : SY/MD
 Sample : Q1818-03
 Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT-3873

Quant Time: Apr 19 01:10:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

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

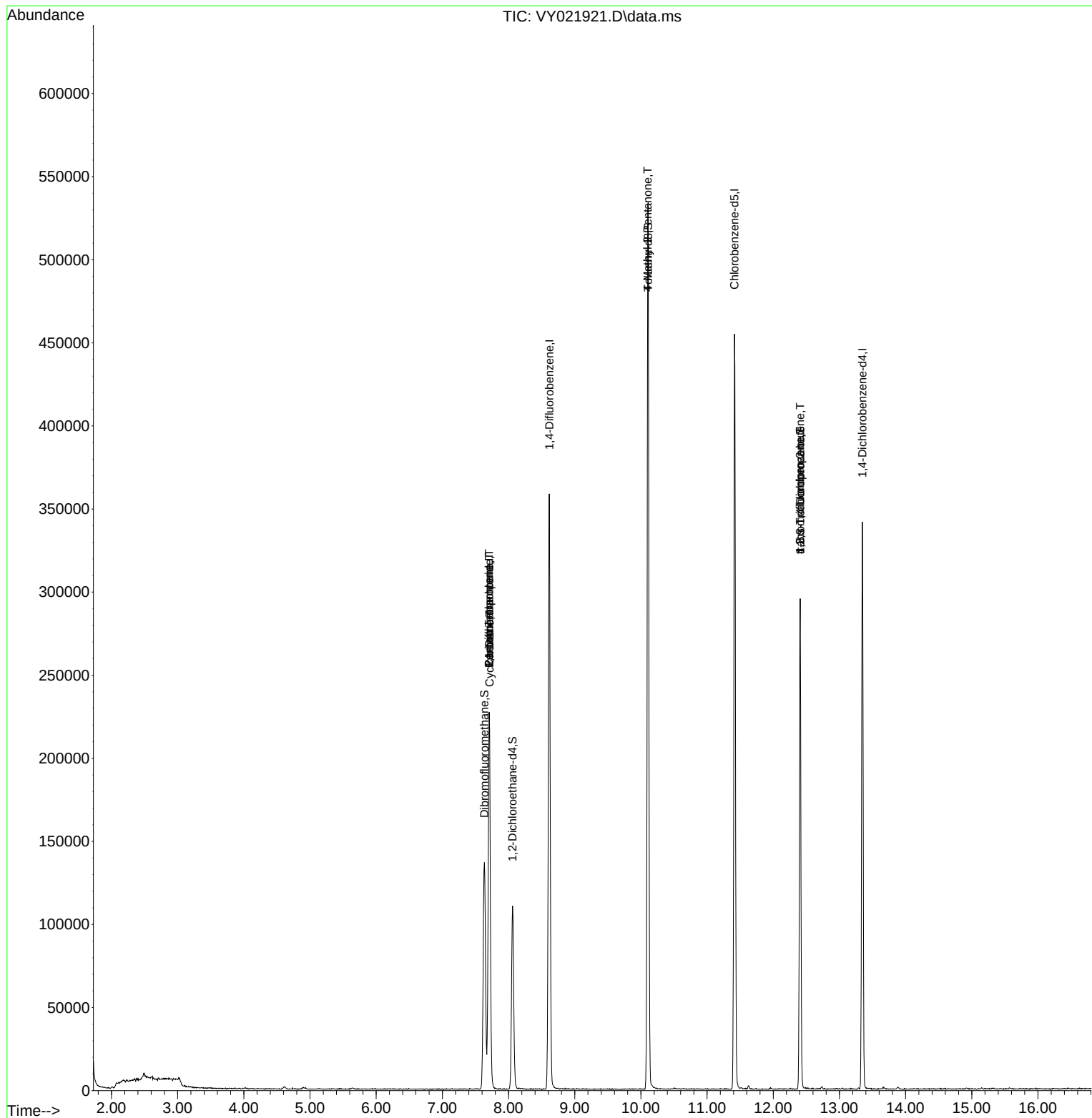
Internal Standards						
1) Pentafluorobenzene	7.707	168	170675	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	295979	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	241465	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	86441	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	87357	47.240	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.480%
35) Dibromofluoromethane	7.634	113	99156	51.645	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.280%
50) Toluene-d8	10.109	98	349298	47.822	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	95.640%
62) 4-Bromofluorobenzene	12.407	95	89983	36.421	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	72.840%
Target Compounds						
20) Methylene Chloride	4.616	84	791	Below Cal	#	88
31) Cyclohexane	7.713	56	3939	1.207	ug/l #	6
36) 1,1-Dichloropropene	7.707	75	13760	4.705	ug/l #	50
38) Carbon Tetrachloride	7.707	117	16989	5.072	ug/l #	17
51) 4-Methyl-2-Pentanone	10.103	43	1814	1.333	ug/l #	1
76) 1,2,3-Trichloropropane	12.407	75	47776	55.758	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	47776	128.475	ug/l #	12

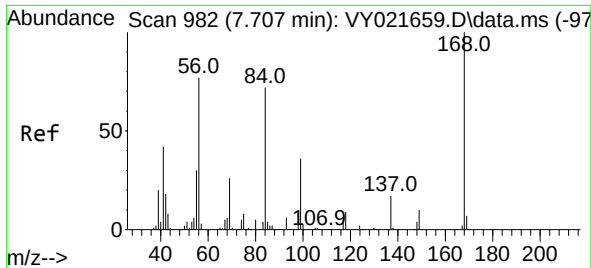
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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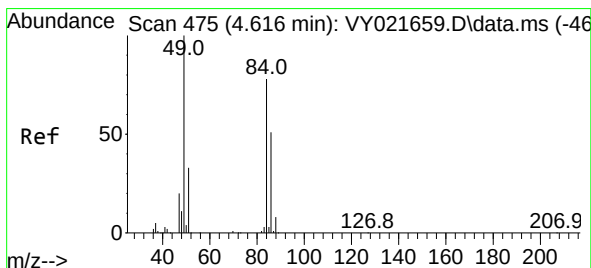
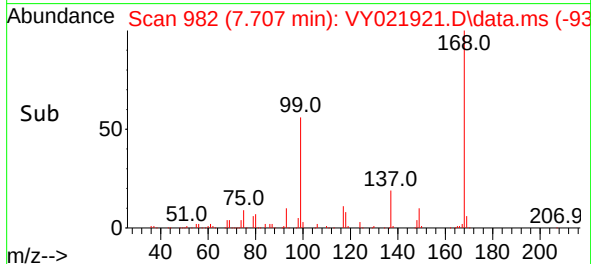
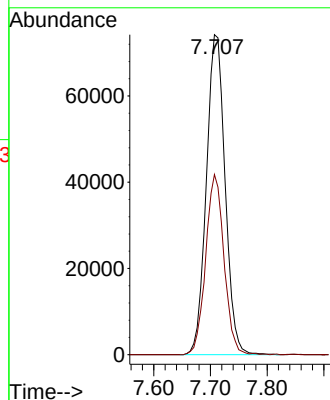
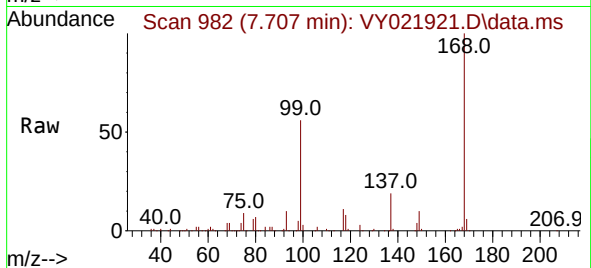




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021921.D
Acq: 18 Apr 2025 11:26

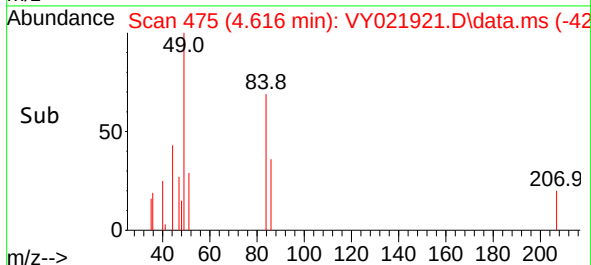
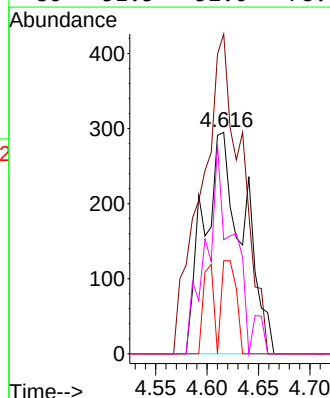
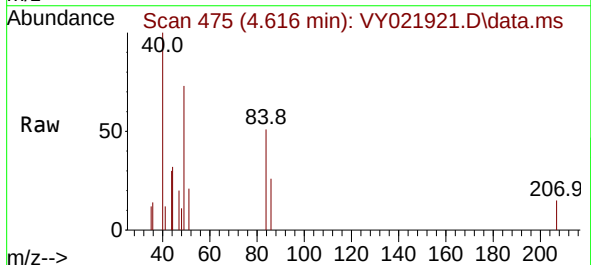
Instrument :
MSVOA_Y
ClientSampleId :
RT-3873

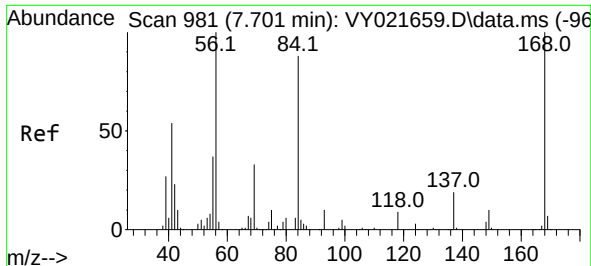
Tgt Ion:168 Resp: 170675
Ion Ratio Lower Upper
168 100
99 56.3 46.7 70.1



#20
Methylene Chloride
Concen: Below Cal
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021921.D
Acq: 18 Apr 2025 11:26

Tgt Ion: 84 Resp: 791
Ion Ratio Lower Upper
84 100
49 144.4 102.8 154.2
51 42.0 33.5 50.3
86 51.5 52.0 78.0#

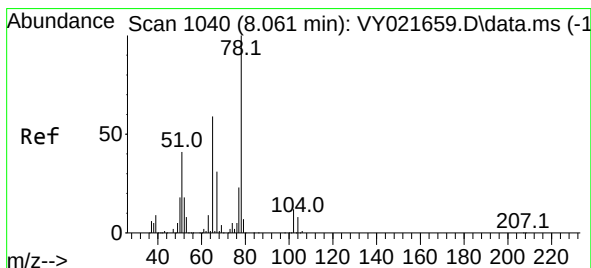
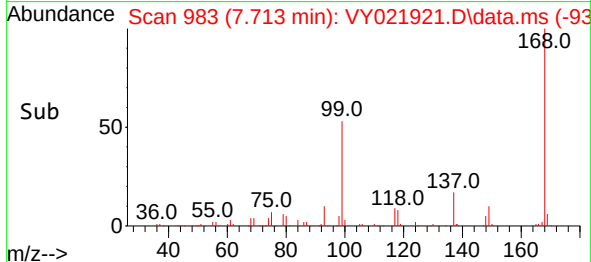
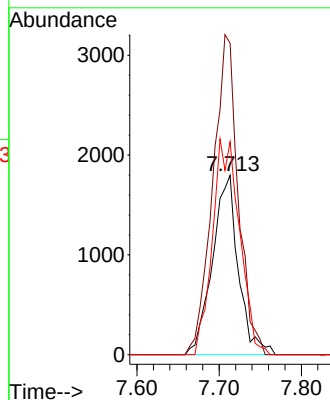
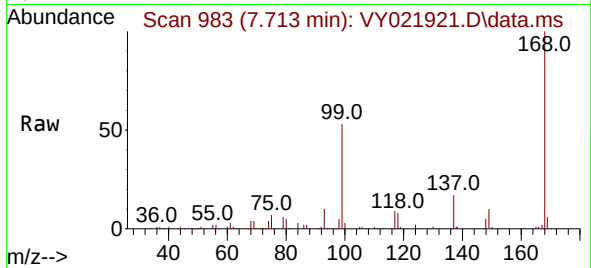




#31
Cyclohexane
Concen: 1.207 ug/l
RT: 7.713 min Scan# 981
Delta R.T. 0.012 min
Lab File: VY021921.D
Acq: 18 Apr 2025 11:26

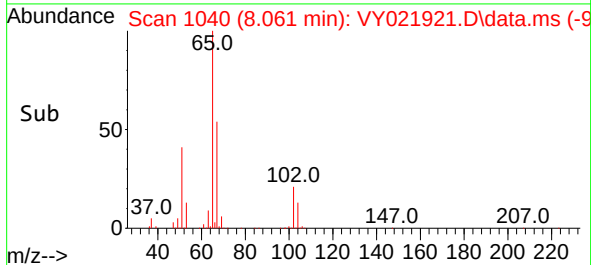
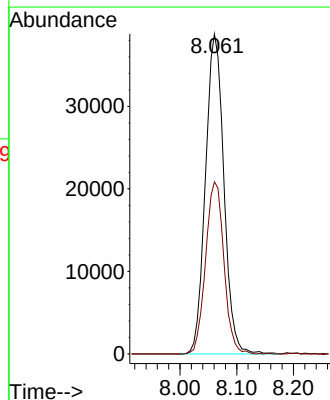
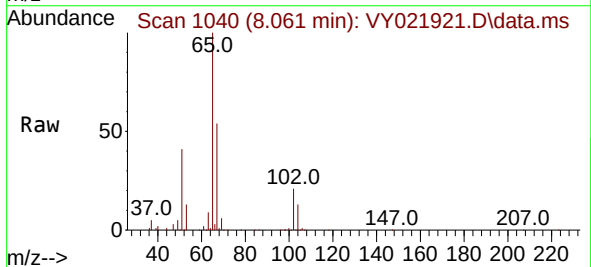
Instrument :
MSVOA_Y
ClientSampleId :
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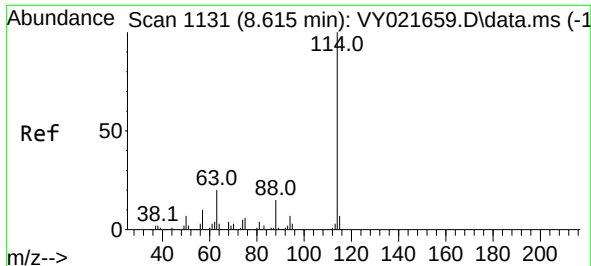
Tgt Ion: 56 Resp: 3939
Ion Ratio Lower Upper
56 100
69 173.6 26.6 40.0#
84 118.7 69.0 103.4#



#33
1,2-Dichloroethane-d4
Concen: 47.240 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021921.D
Acq: 18 Apr 2025 11:26

Tgt Ion: 65 Resp: 87357
Ion Ratio Lower Upper
65 100
67 53.4 0.0 104.6

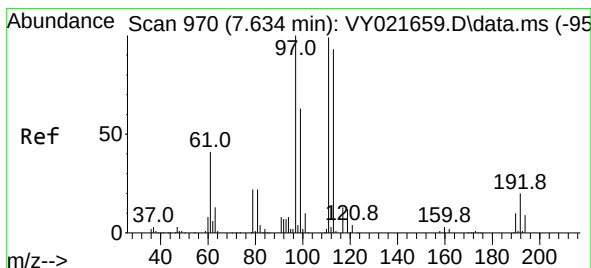
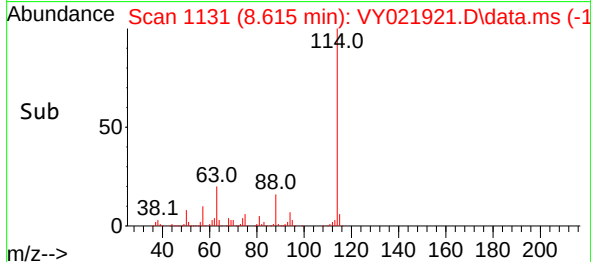
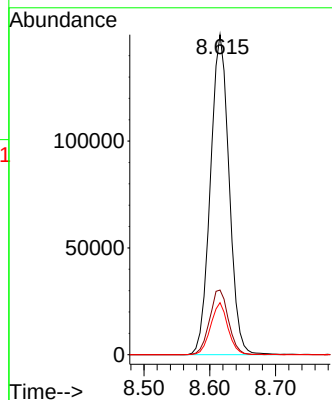
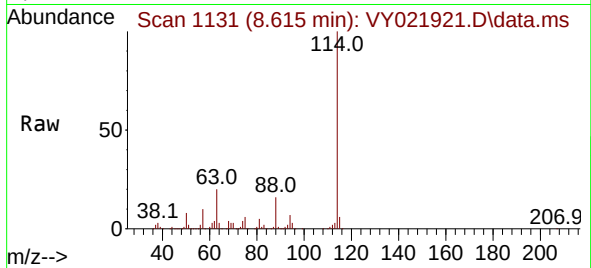




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021921.D
Acq: 18 Apr 2025 11:26

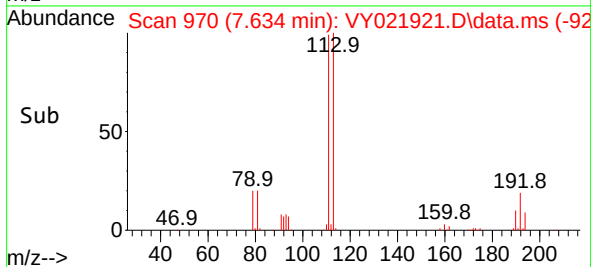
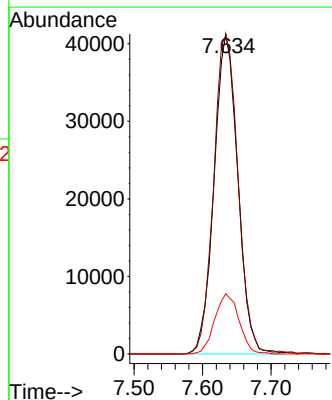
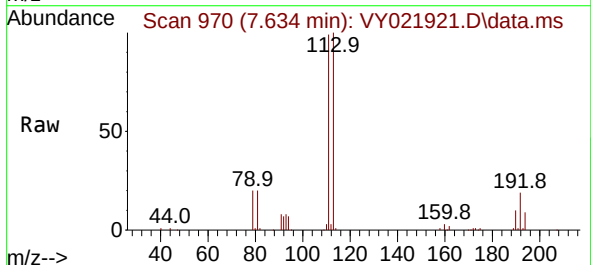
Instrument :
MSVOA_Y
ClientSampleId :
RT-3873

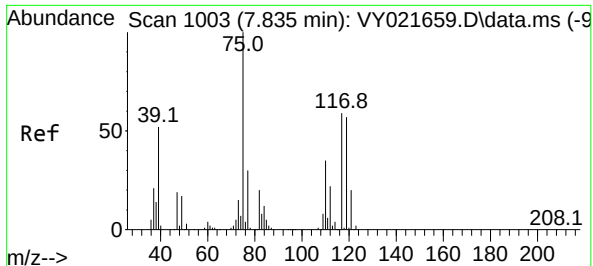
Tgt Ion:114 Resp: 295979
Ion Ratio Lower Upper
114 100
63 20.2 0.0 40.2
88 16.3 0.0 29.8



#35
Dibromofluoromethane
Concen: 51.645 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021921.D
Acq: 18 Apr 2025 11:26

Tgt Ion:113 Resp: 99156
Ion Ratio Lower Upper
113 100
111 102.5 82.6 123.8
192 19.2 16.2 24.4

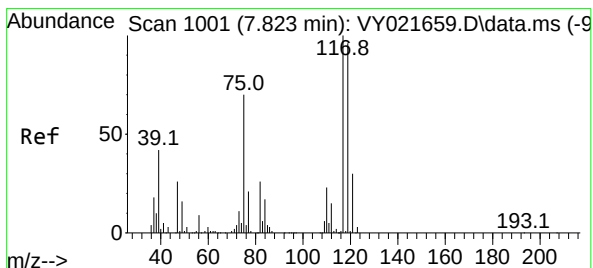
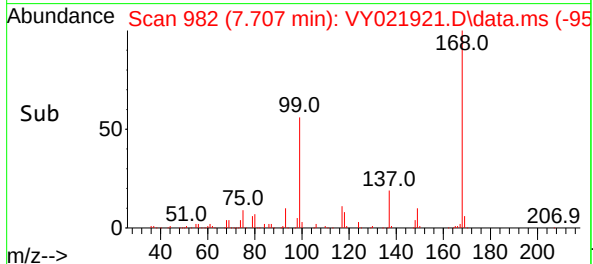
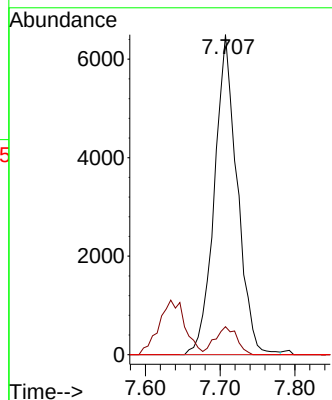
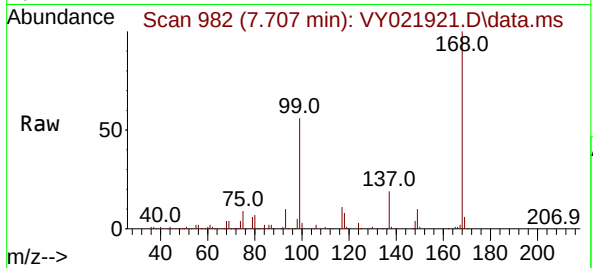




#36
1,1-Dichloropropene
Concen: 4.705 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY021921.D
Acq: 18 Apr 2025 11:26

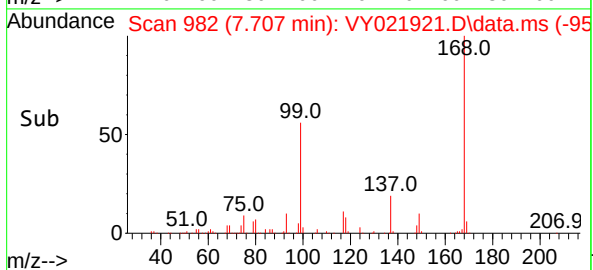
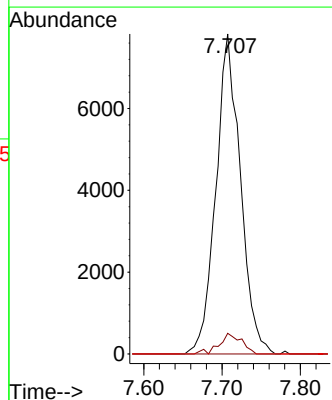
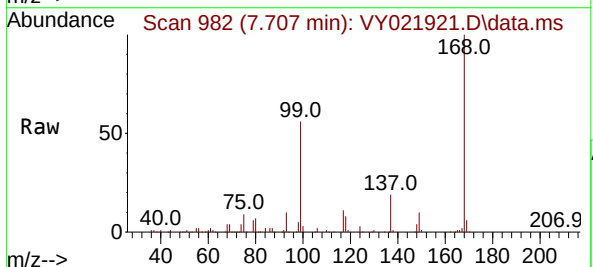
Instrument :
MSVOA_Y
ClientSampleId :
RT-3873

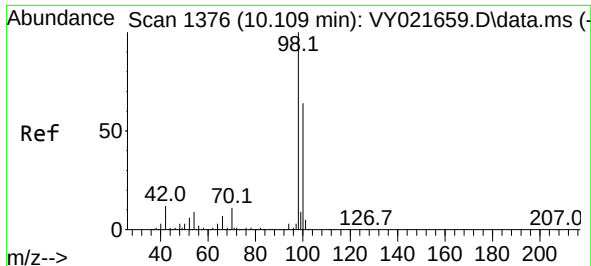
Tgt Ion: 75 Resp: 13760
Ion Ratio Lower Upper
75 100
110 8.4 17.0 50.9#
77 0.0 24.8 37.2#



#38
Carbon Tetrachloride
Concen: 5.072 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.116 min
Lab File: VY021921.D
Acq: 18 Apr 2025 11:26

Tgt Ion: 117 Resp: 16989
Ion Ratio Lower Upper
117 100
119 6.4 76.2 114.4#
121 0.0 24.2 36.4#

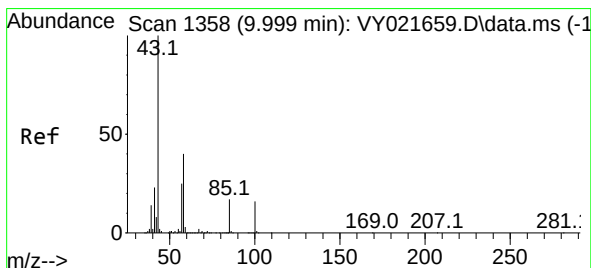
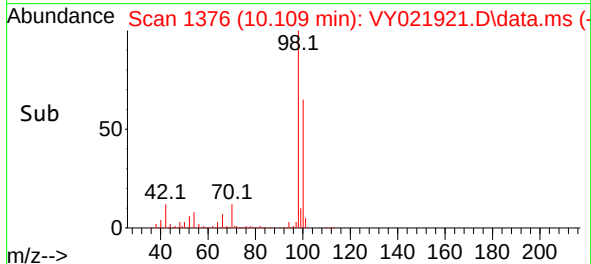
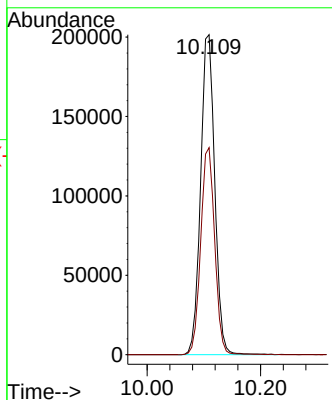
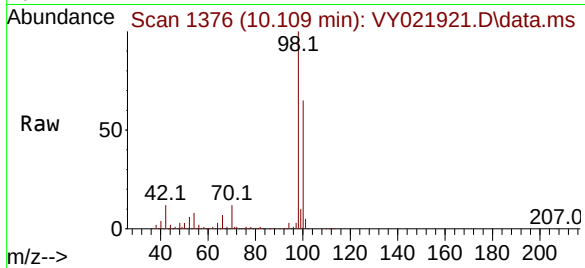




#50
Toluene-d8
Concen: 47.822 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021921.D
Acq: 18 Apr 2025 11:26

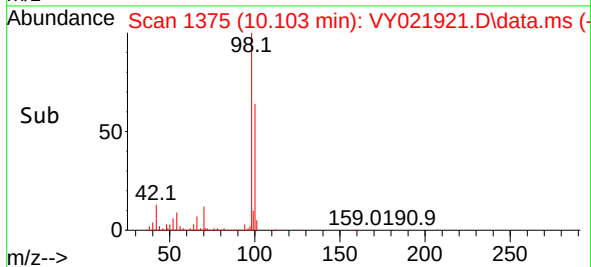
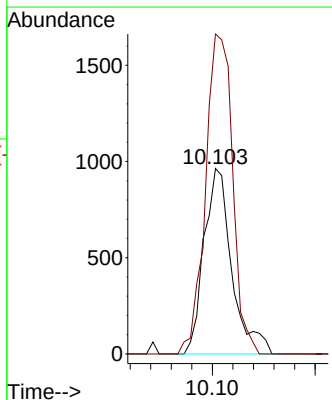
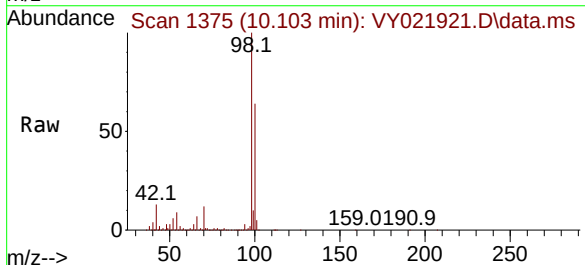
Instrument :
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ClientSampleId :
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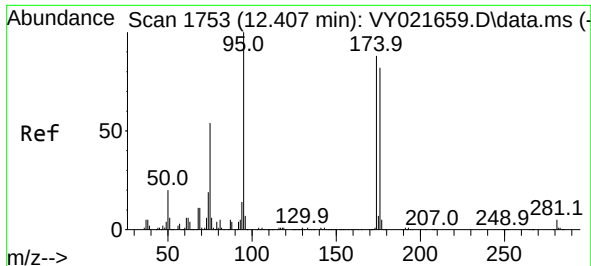
Tgt Ion: 98 Resp: 349298
Ion Ratio Lower Upper
98 100
100 64.0 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.333 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.104 min
Lab File: VY021921.D
Acq: 18 Apr 2025 11:26

Tgt Ion: 43 Resp: 1814
Ion Ratio Lower Upper
43 100
58 167.6 31.5 47.3#





#62

4-Bromofluorobenzene

Concen: 36.421 ug/l

RT: 12.407 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021921.D

Acq: 18 Apr 2025 11:26

Instrument :

MSVOA_Y

ClientSampleId :

RT-3873

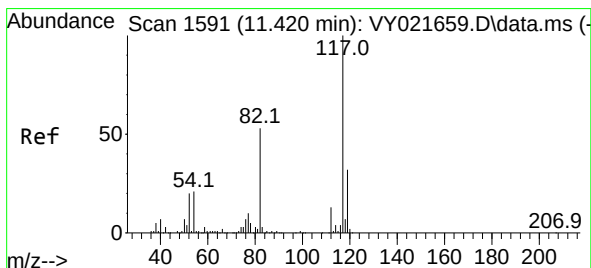
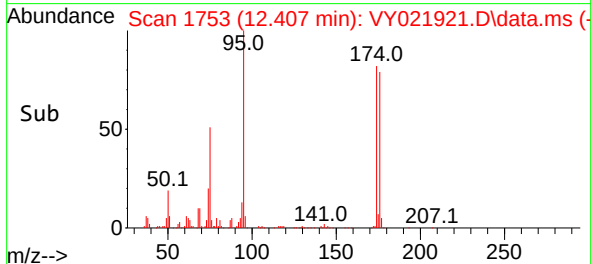
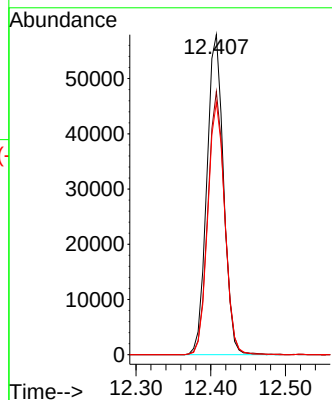
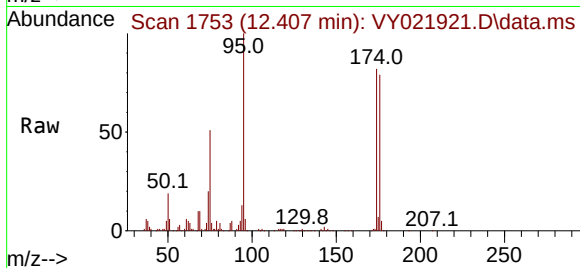
Tgt Ion: 95 Resp: 89983

Ion Ratio Lower Upper

95 100

174 82.8 0.0 170.8

176 80.2 0.0 162.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY021921.D

Acq: 18 Apr 2025 11:26

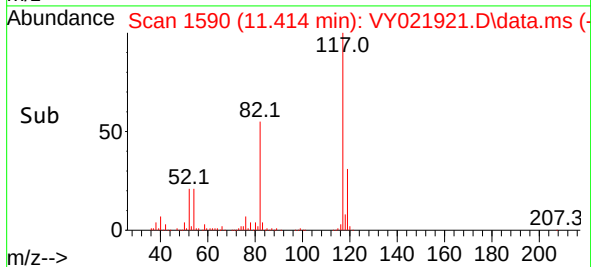
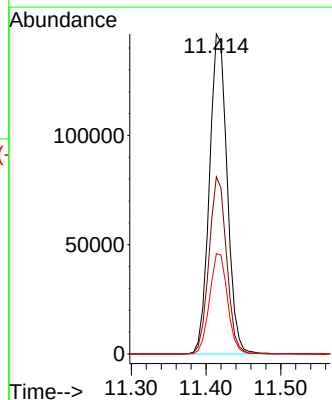
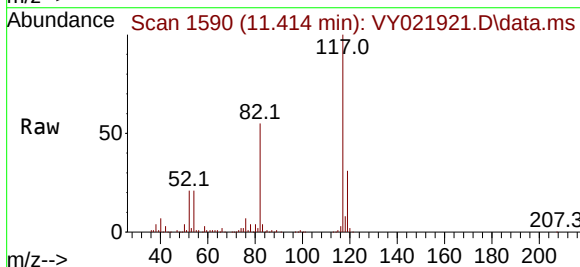
Tgt Ion: 117 Resp: 241465

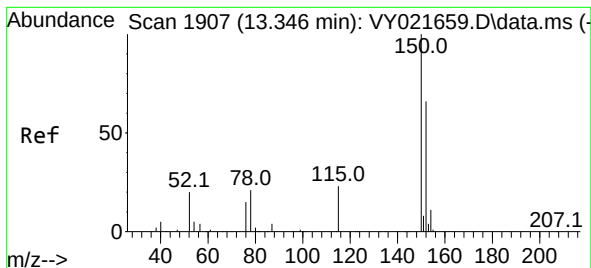
Ion Ratio Lower Upper

117 100

82 55.4 42.8 64.2

119 31.4 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021921.D

Acq: 18 Apr 2025 11:26

Instrument :

MSVOA_Y

ClientSampleId :

RT-3873

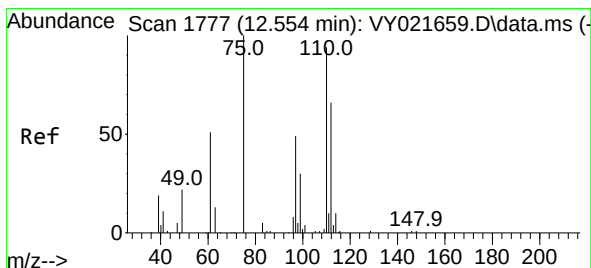
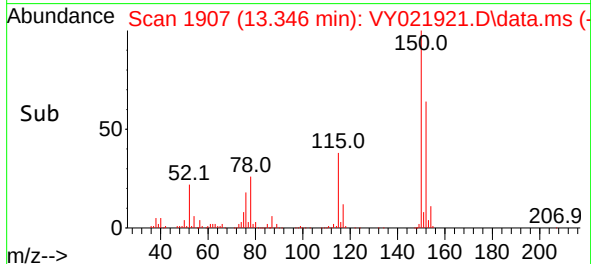
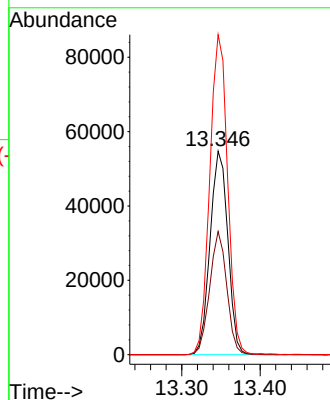
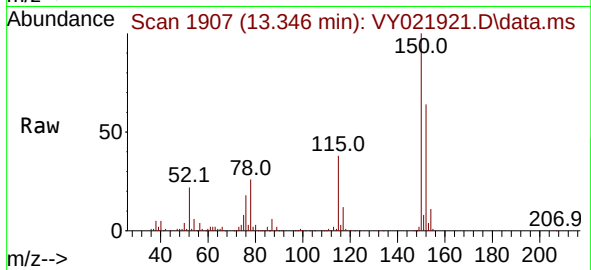
Tgt Ion:152 Resp: 86441

Ion Ratio Lower Upper

152 100

115 58.1 28.8 86.5

150 157.3 0.0 348.4



#76

1,2,3-Trichloropropane

Concen: 55.758 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY021921.D

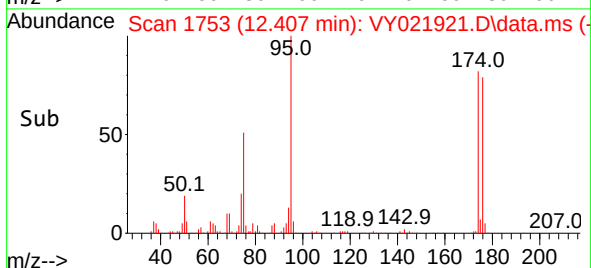
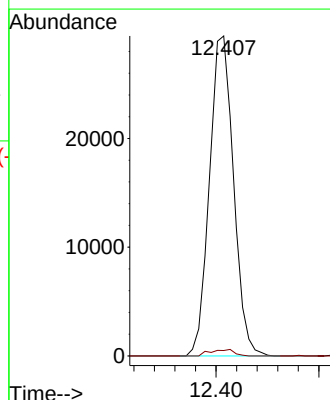
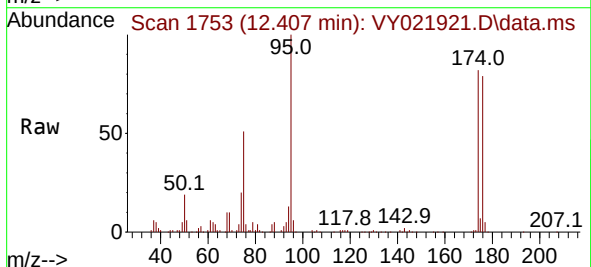
Acq: 18 Apr 2025 11:26

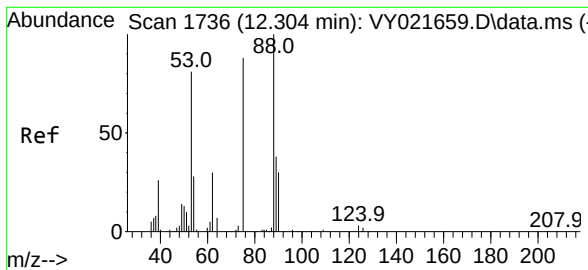
Tgt Ion: 75 Resp: 47776

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 128.475 ug/l
 RT: 12.407 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY021921.D
 Acq: 18 Apr 2025 11:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT-3873

Tgt Ion: 75 Resp: 47776
 Ion Ratio Lower Upper
 75 100
 53 0.3 76.1 114.1#
 89 0.0 36.2 54.4#

