

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
 Data File : VY023122.D
 Acq On : 15 Aug 2025 13:28
 Operator : SY/MD
 Sample : Q2820-24
 Misc : 5.99g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 22M-S

Quant Time: Aug 18 02:29:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

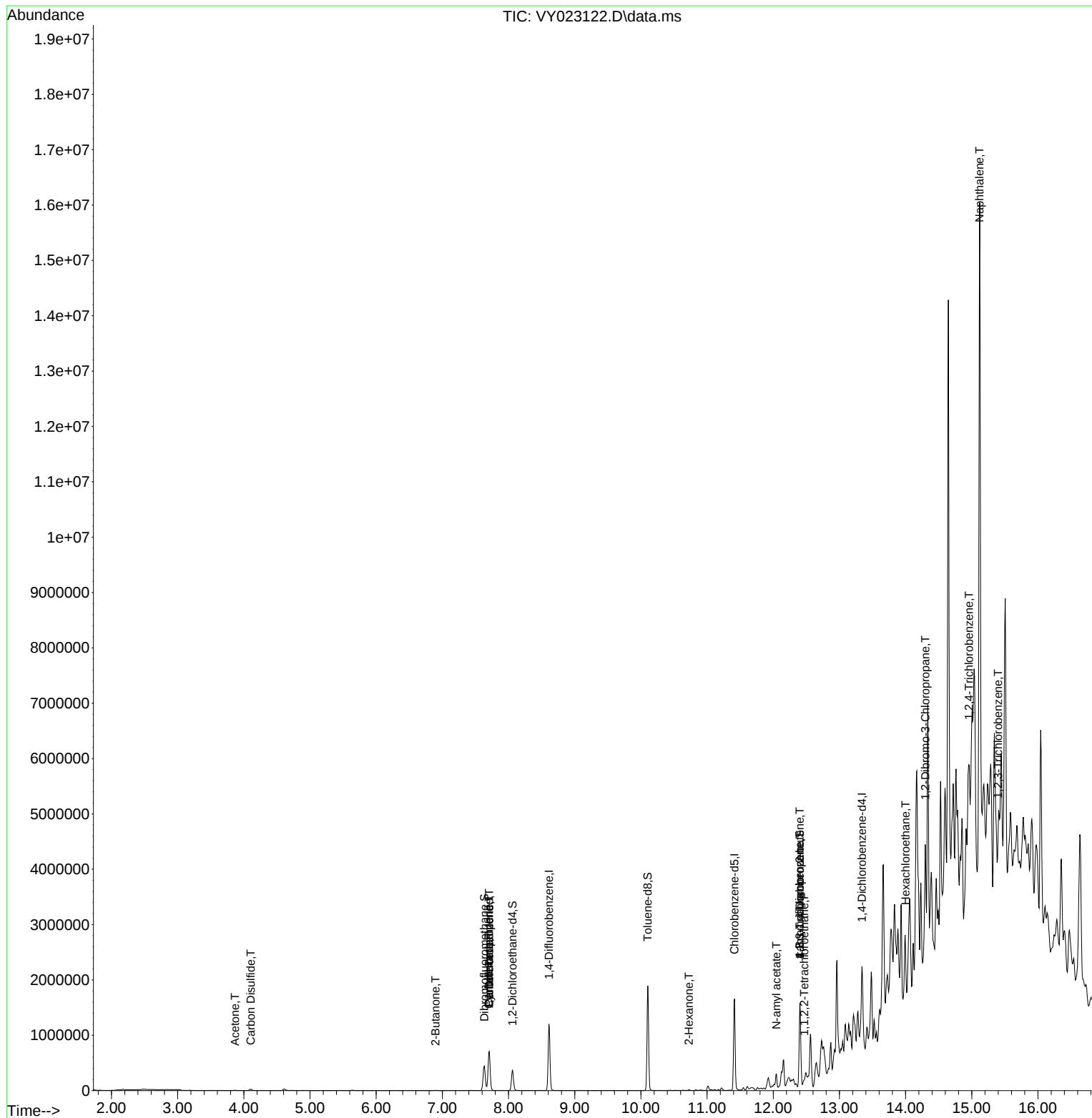
Internal Standards						
1) Pentafluorobenzene	7.707	168	540065	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1019542	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	888710	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	376737	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	286859	55.731	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	111.460%
35) Dibromofluoromethane	7.634	113	313774	51.433	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.860%
50) Toluene-d8	10.103	98	1216617	51.048	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.100%
62) 4-Bromofluorobenzene	12.401	95	370266	48.309	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	96.620%
Target Compounds						
					Qvalue	
16) Acetone	3.866	43	9484	8.505	ug/l #	87
17) Carbon Disulfide	4.104	76	46150	2.720	ug/l #	95
25) 2-Butanone	6.896	43	2759	1.819	ug/l #	69
31) Cyclohexane	7.701	56	11534	1.203	ug/l #	12
36) 1,1-Dichloropropene	7.701	75	41360	4.562	ug/l #	50
38) Carbon Tetrachloride	7.707	117	53459	5.429	ug/l #	16
59) 2-Hexanone	10.725	43	6025	2.228	ug/l #	26
74) N-amyl acetate	12.048	43	58284	10.336	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.469	83	20708	4.561	ug/l #	26
76) 1,2,3-Trichloropropane	12.401	75	197423	54.298	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	197423	131.438	ug/l #	15
90) Hexachloroethane	13.999	117	36747	7.585	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.297	75	2837	4.013	ug/l #	32
93) 1,2,4-Trichlorobenzene	14.956	180	22334	3.442	ug/l #	13
95) Naphthalene	15.114	128	31734	2.869	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.395	180	33084	5.918	ug/l	69

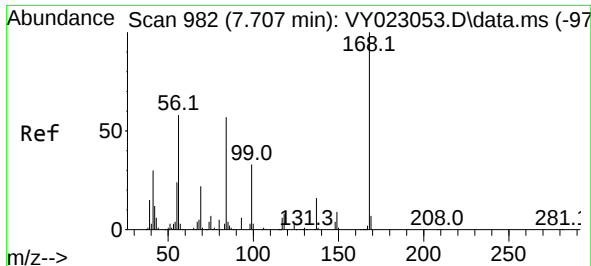
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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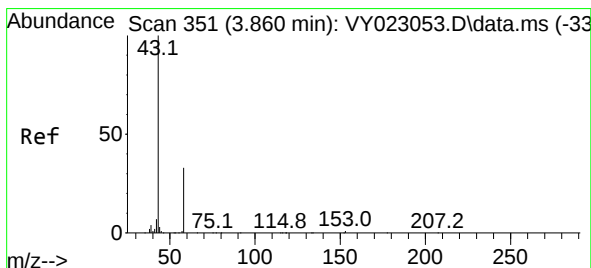
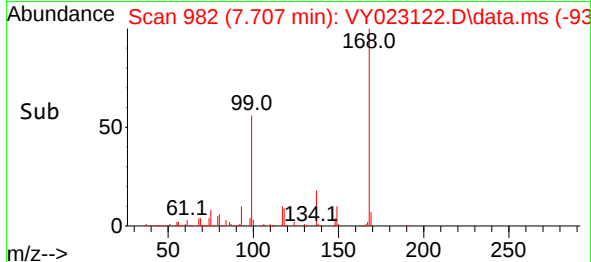
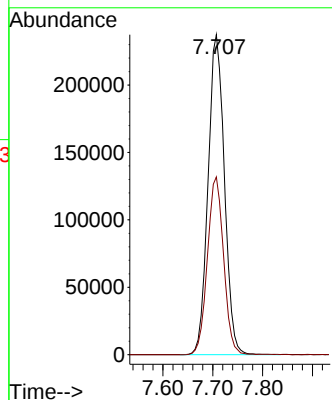
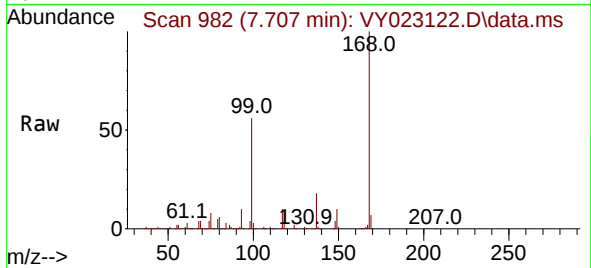




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

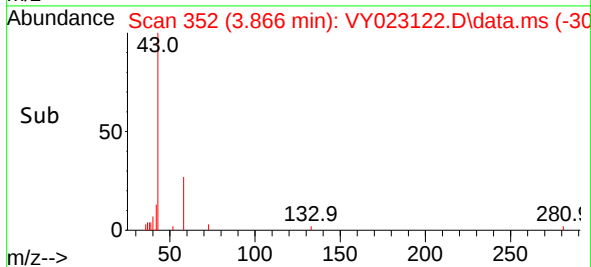
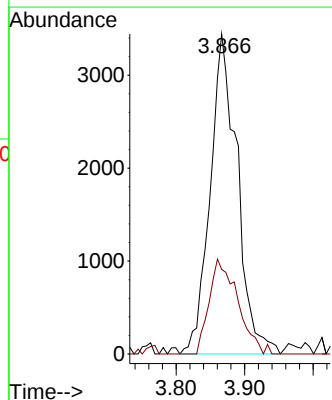
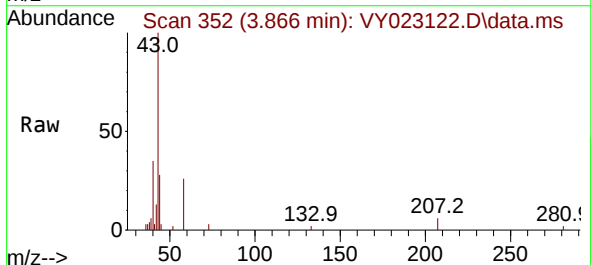
Instrument :
MSVOA_Y
ClientSampleId :
22M-S

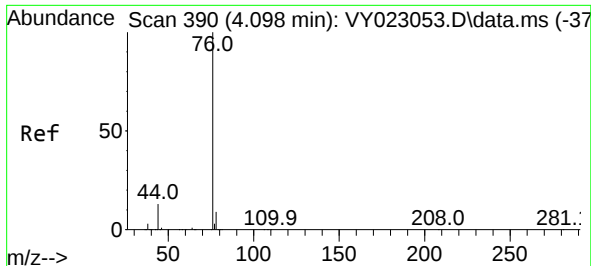
Tgt Ion:168 Resp: 540065
Ion Ratio Lower Upper
168 100
99 55.6 42.8 64.2



#16
Acetone
Concen: 8.505 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion: 43 Resp: 9484
Ion Ratio Lower Upper
43 100
58 26.5 27.1 40.7#

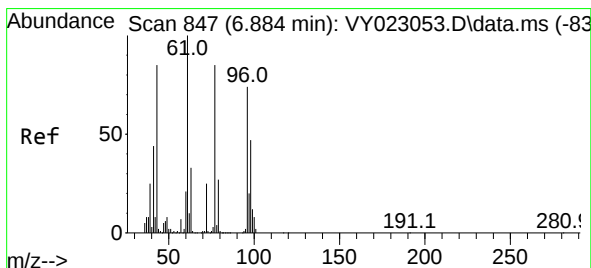
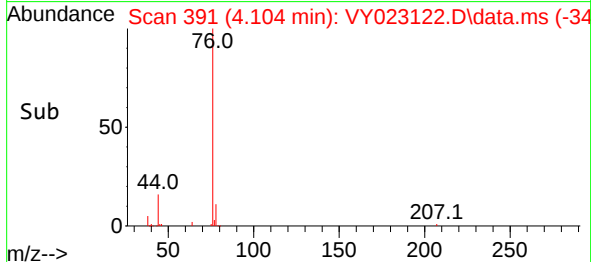
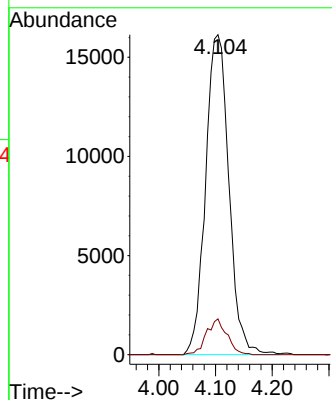
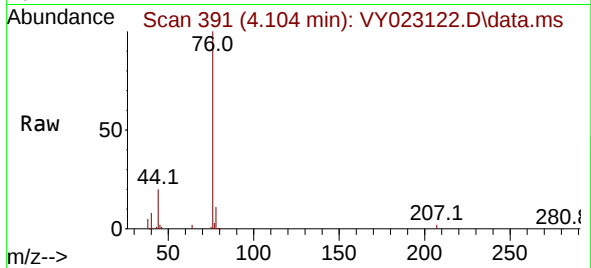




#17
Carbon Disulfide
Concen: 2.720 ug/l
RT: 4.104 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

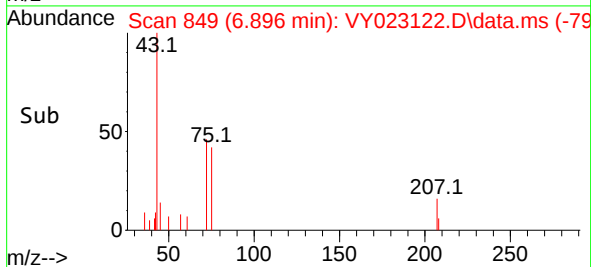
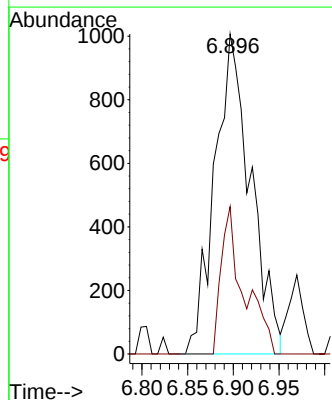
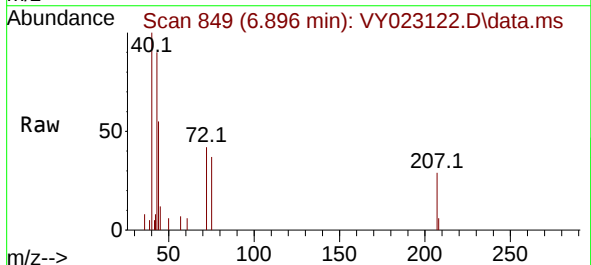
Instrument :
MSVOA_Y
ClientSampleId :
22M-S

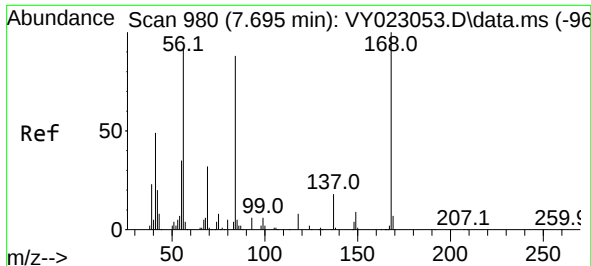
Tgt Ion: 76 Resp: 46150
Ion Ratio Lower Upper
76 100
78 11.2 7.4 11.2#



#25
2-Butanone
Concen: 1.819 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.012 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion: 43 Resp: 2759
Ion Ratio Lower Upper
43 100
72 46.1 23.5 35.3#

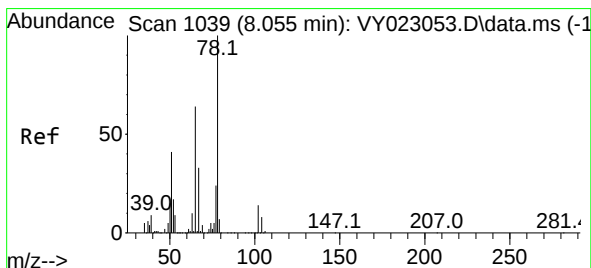
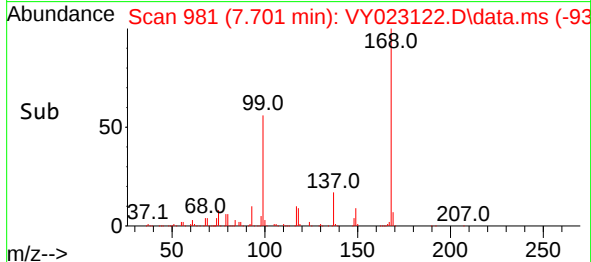
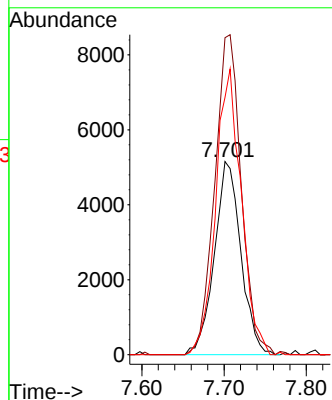
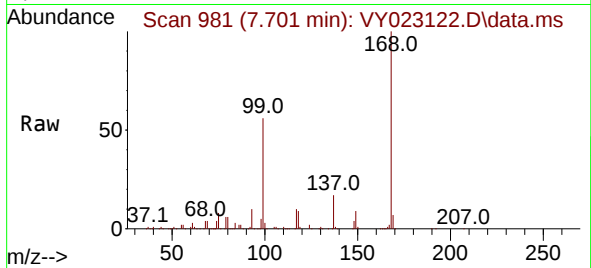




#31
Cyclohexane
Concen: 1.203 ug/l
RT: 7.701 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

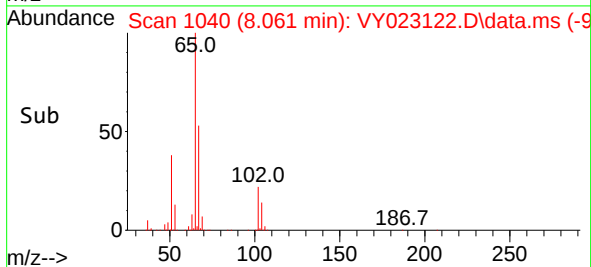
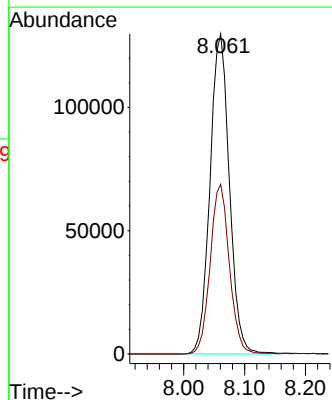
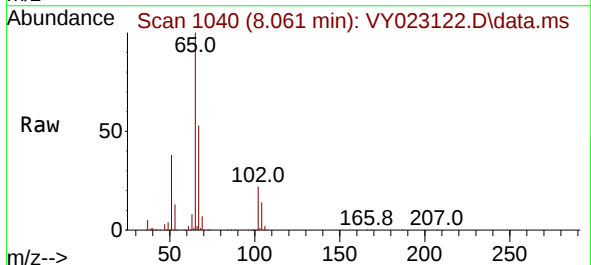
Instrument :
MSVOA_Y
ClientSampleId :
22M-S

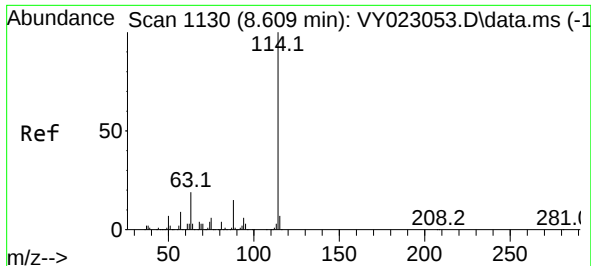
Tgt Ion: 56 Resp: 11534
Ion Ratio Lower Upper
56 100
69 164.1 28.2 42.2#
84 133.2 76.6 114.8#



#33
1,2-Dichloroethane-d4
Concen: 55.731 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion: 65 Resp: 286859
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.8

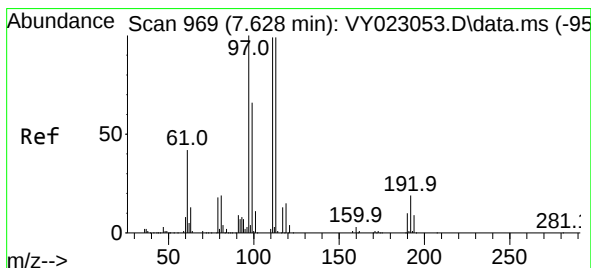
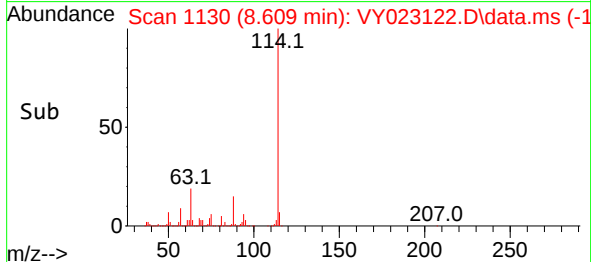
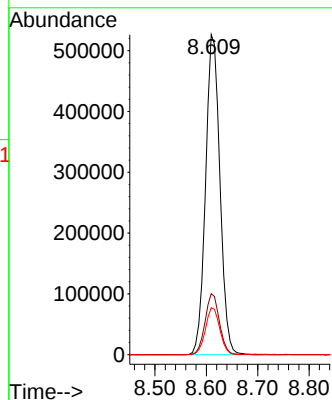
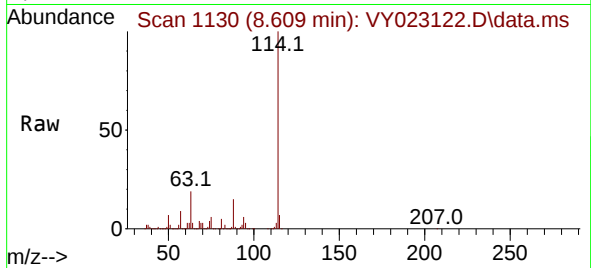




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

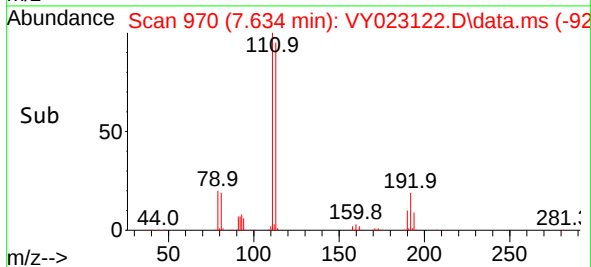
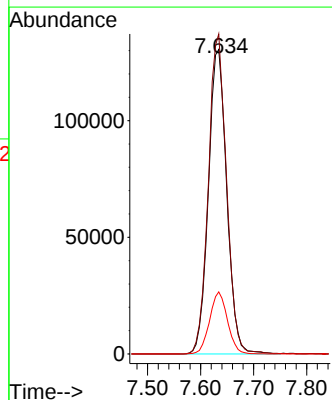
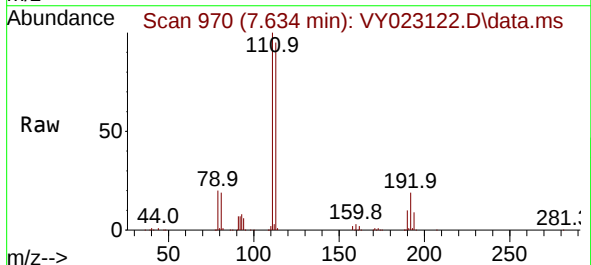
Instrument :
MSVOA_Y
ClientSampleId :
22M-S

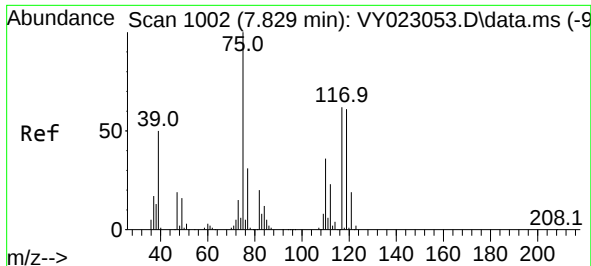
Tgt Ion:114 Resp: 1019542
Ion Ratio Lower Upper
114 100
63 19.1 0.0 38.4
88 14.6 0.0 30.0



#35
Dibromofluoromethane
Concen: 51.433 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion:113 Resp: 313774
Ion Ratio Lower Upper
113 100
111 103.9 81.1 121.7
192 19.9 16.2 24.4





#36

1,1-Dichloropropene

Concen: 4.562 ug/l

RT: 7.701 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY023122.D

Acq: 15 Aug 2025 13:28

Instrument :

MSVOA_Y

ClientSampleId :

22M-S

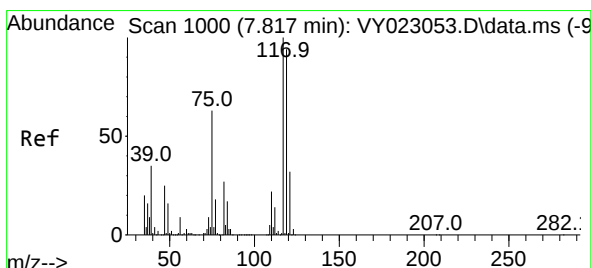
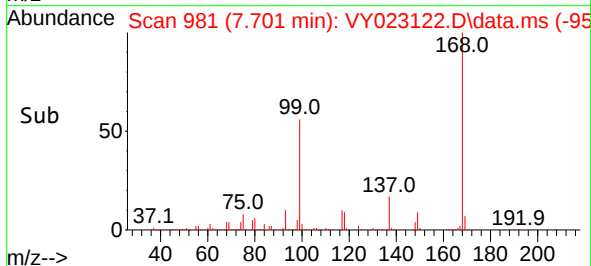
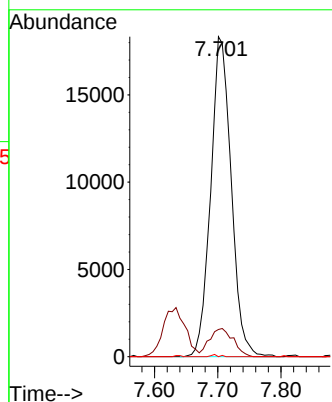
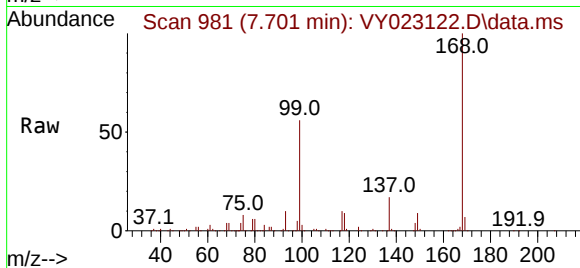
Tgt Ion: 75 Resp: 41360

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.4#

77 0.2 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.429 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023122.D

Acq: 15 Aug 2025 13:28

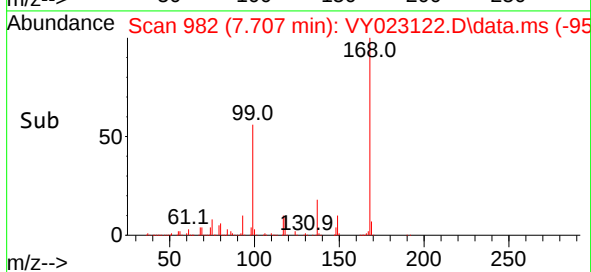
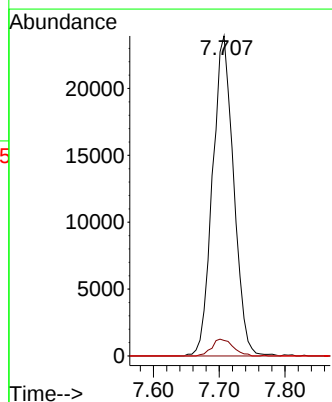
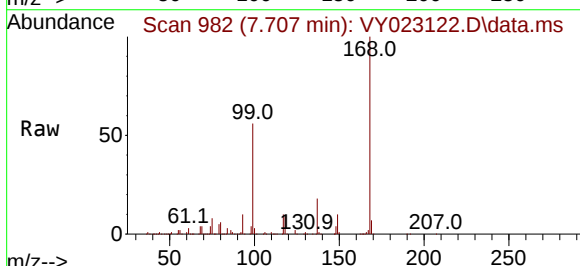
Tgt Ion: 117 Resp: 53459

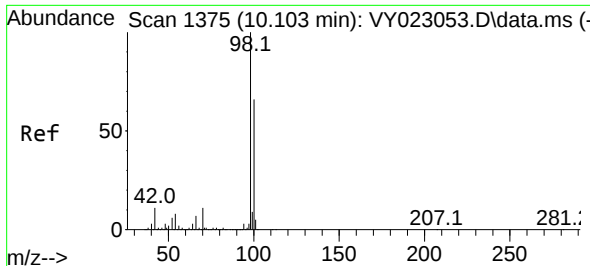
Ion Ratio Lower Upper

117 100

119 4.8 75.6 113.4#

121 0.0 25.8 38.8#

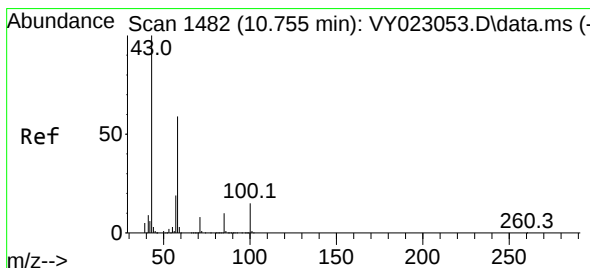
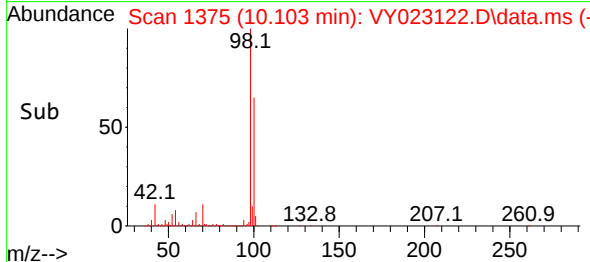
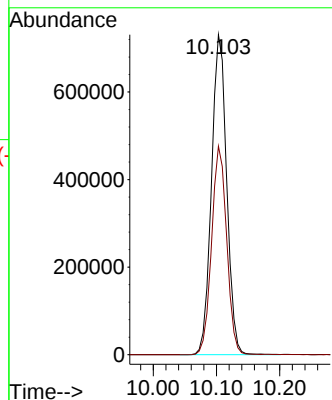
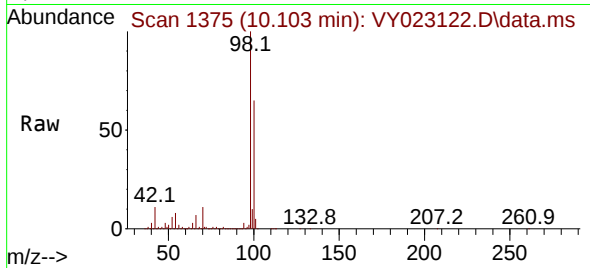




#50
Toluene-d8
Concen: 51.048 ug/l
RT: 10.103 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

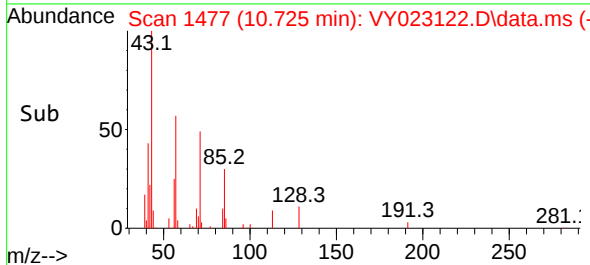
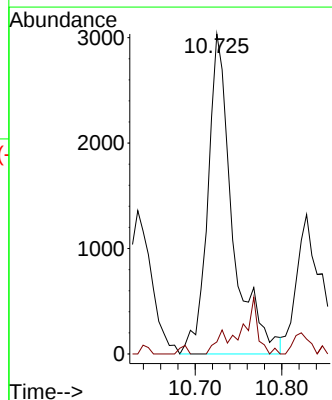
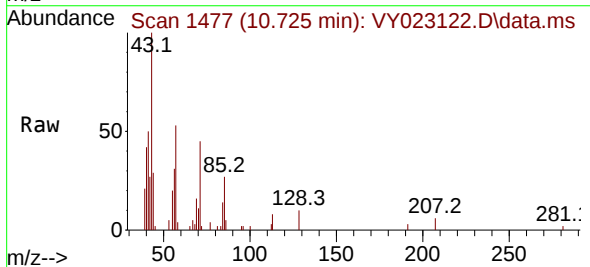
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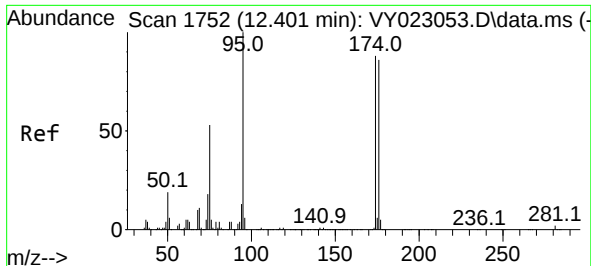
Tgt Ion: 98 Resp: 1216617
Ion Ratio Lower Upper
98 100
100 64.8 52.3 78.5



#59
2-Hexanone
Concen: 2.228 ug/l
RT: 10.725 min Scan# 1477
Delta R.T. -0.030 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion: 43 Resp: 6025
Ion Ratio Lower Upper
43 100
58 3.2 29.5 88.5#

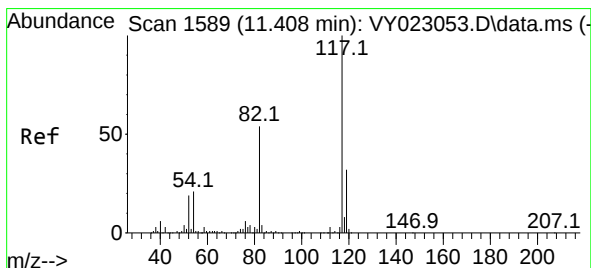
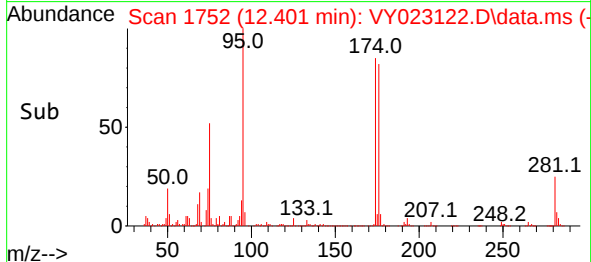
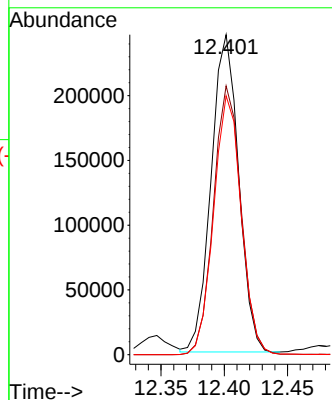
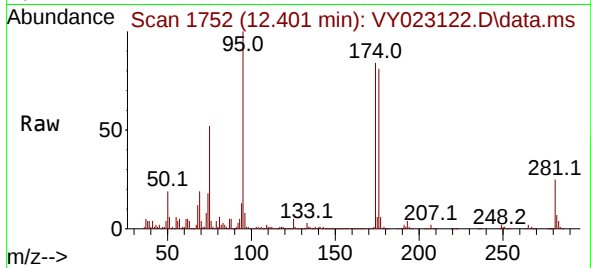




#62
4-Bromofluorobenzene
Concen: 48.309 ug/l
RT: 12.401 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

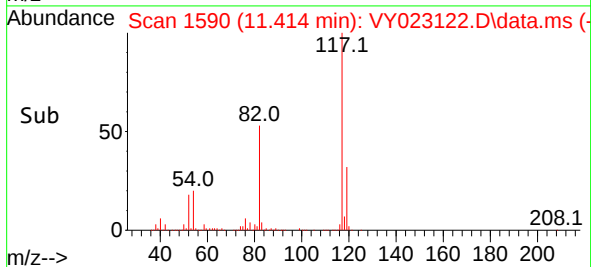
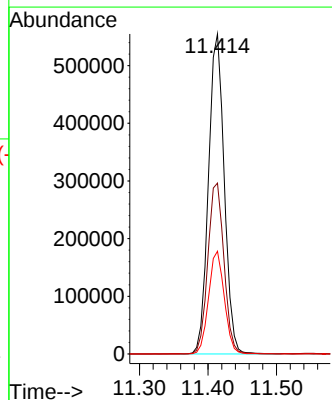
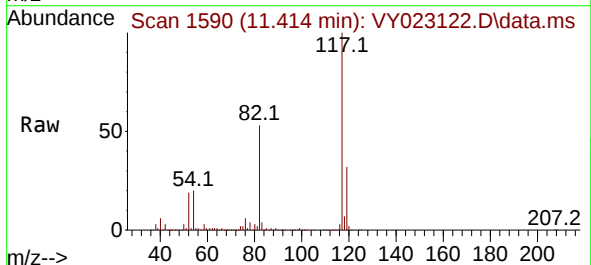
Instrument :
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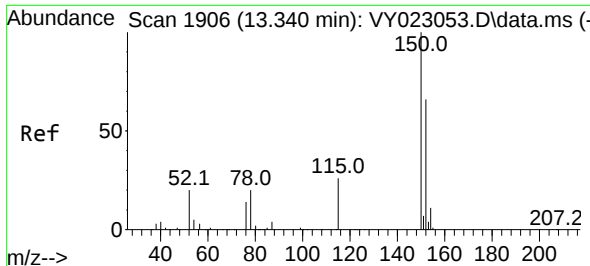
Tgt Ion: 95 Resp: 370266
Ion Ratio Lower Upper
95 100
174 85.0 0.0 171.6
176 82.0 0.0 167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion: 117 Resp: 888710
Ion Ratio Lower Upper
117 100
82 53.3 43.4 65.0
119 32.1 25.6 38.4

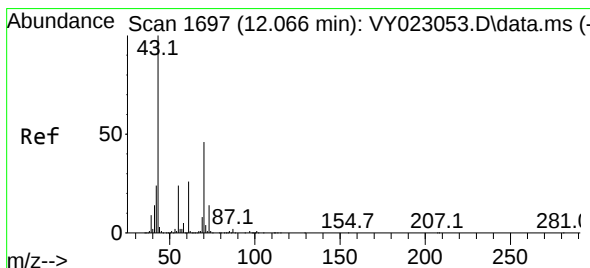
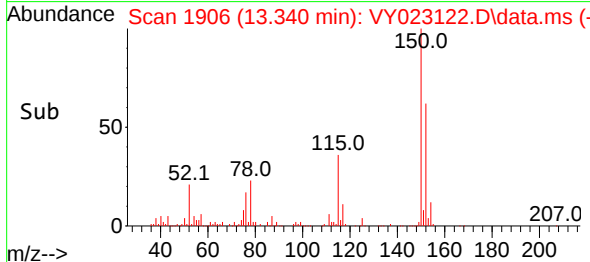
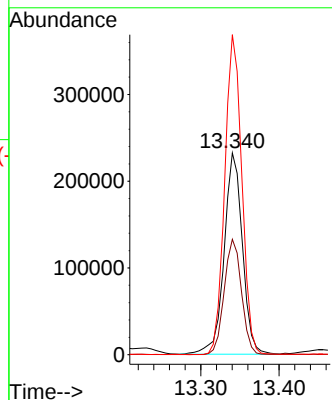
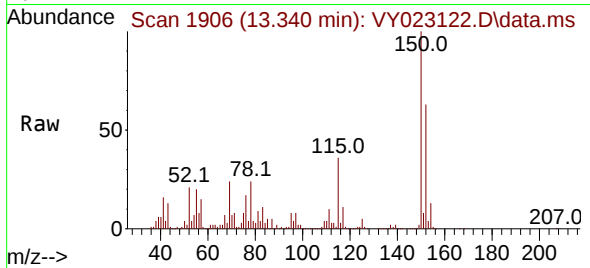




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

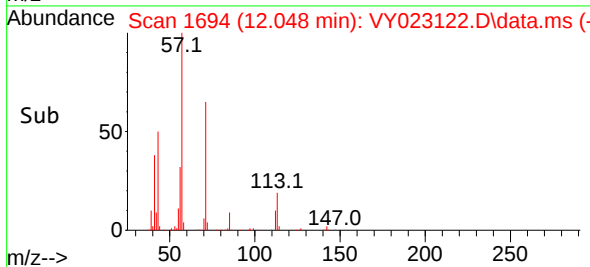
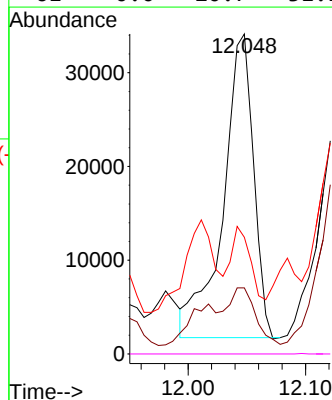
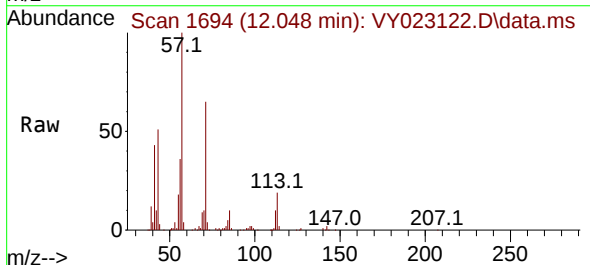
Instrument :
MSVOA_Y
ClientSampleId :
22M-S

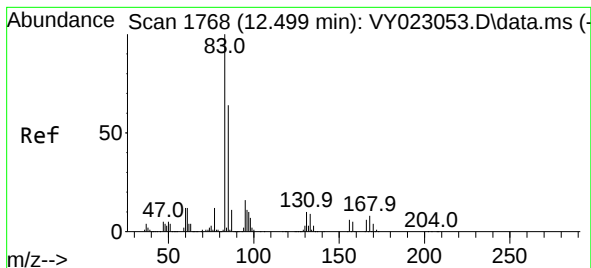
Tgt Ion:152 Resp: 376737
Ion Ratio Lower Upper
152 100
115 54.1 28.2 84.6
150 148.6 0.0 348.0



#74
N-ethyl acetate
Concen: 10.336 ug/l
RT: 12.048 min Scan# 1694
Delta R.T. -0.018 min
Lab File: VY023122.D
Acq: 15 Aug 2025 13:28

Tgt Ion: 43 Resp: 58284
Ion Ratio Lower Upper
43 100
70 15.3 37.5 56.3#
55 22.6 20.7 31.1
61 0.0 20.7 31.1#





#75

1,1,2,2-Tetrachloroethane

Concen: 4.561 ug/l

RT: 12.469 min Scan# 11

Delta R.T. -0.030 min

Lab File: VY023122.D

Acq: 15 Aug 2025 13:28

Instrument :

MSVOA_Y

ClientSampleId :

22M-S

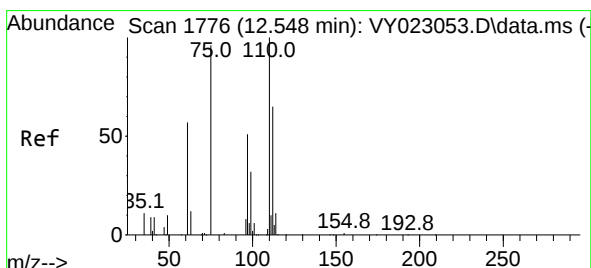
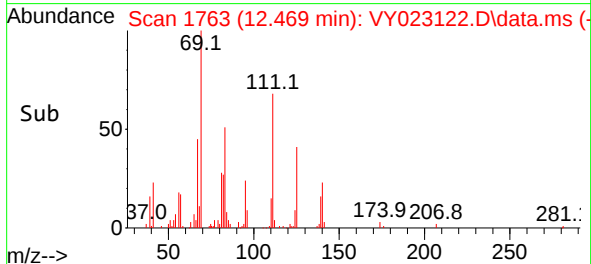
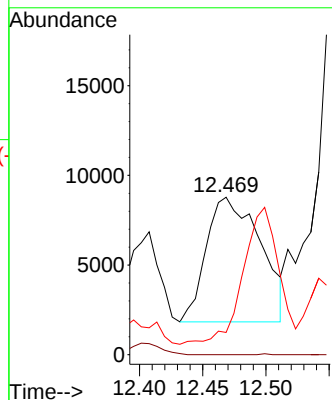
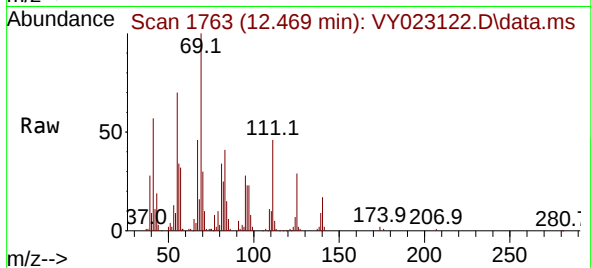
Tgt Ion: 83 Resp: 20708

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 0.0 31.8 95.3#



#76

1,2,3-Trichloropropane

Concen: 54.298 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.146 min

Lab File: VY023122.D

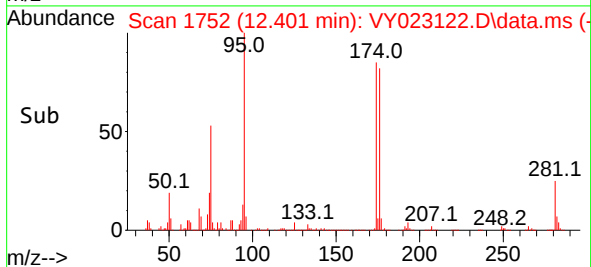
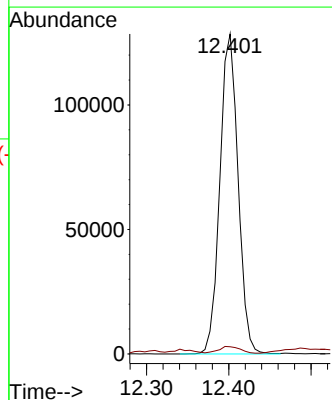
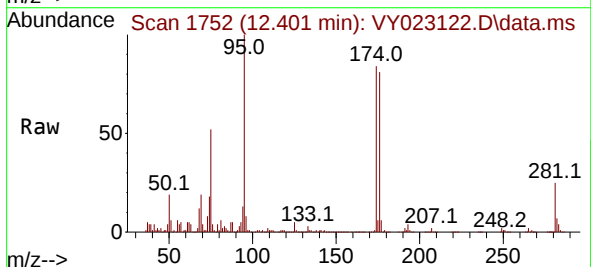
Acq: 15 Aug 2025 13:28

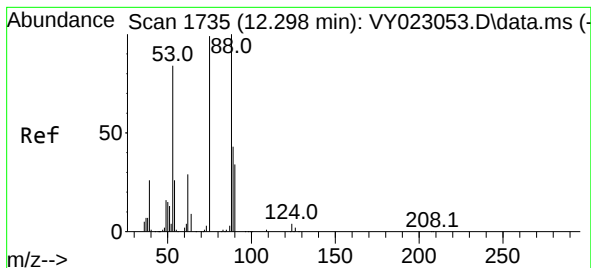
Tgt Ion: 75 Resp: 197423

Ion Ratio Lower Upper

75 100

77 2.5 0.0 0.0#

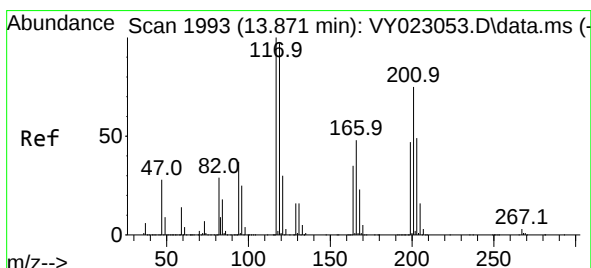
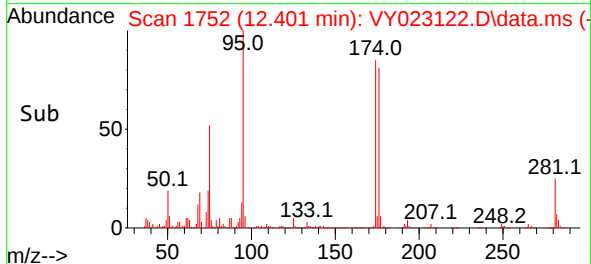
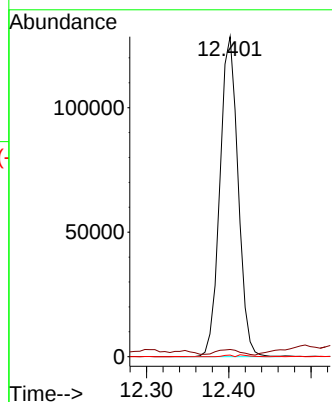
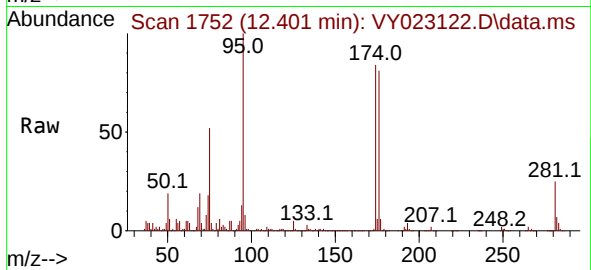




#81
 trans-1,4-Dichloro-2-butene
 Concen: 131.438 ug/l
 RT: 12.401 min Scan# 1
 Delta R.T. 0.104 min
 Lab File: VY023122.D
 Acq: 15 Aug 2025 13:28

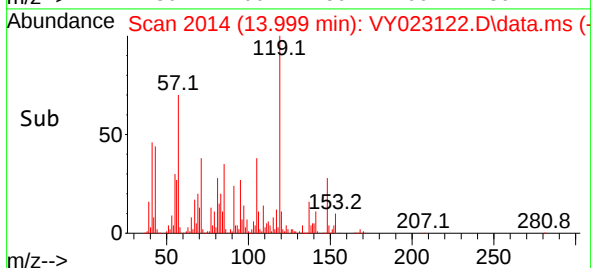
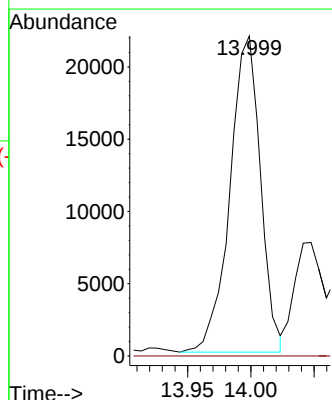
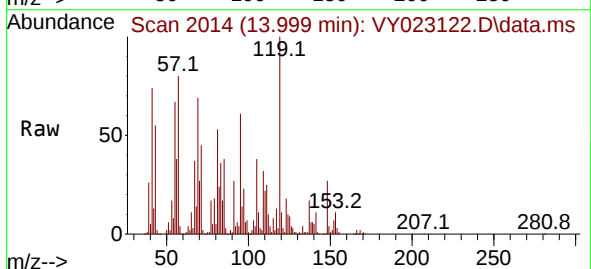
Instrument :
 MSVOA_Y
 ClientSampleId :
 22M-S

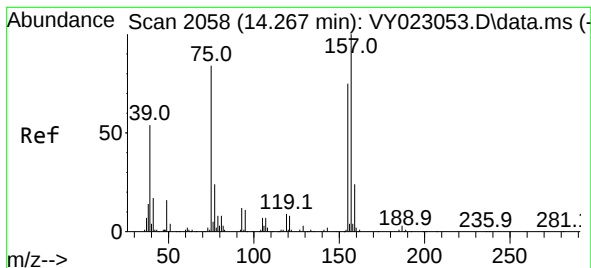
Tgt Ion: 75 Resp: 197423
 Ion Ratio Lower Upper
 75 100
 53 2.2 70.8 106.2#
 89 0.2 38.1 57.1#



#90
 Hexachloroethane
 Concen: 7.585 ug/l
 RT: 13.999 min Scan# 2014
 Delta R.T. 0.128 min
 Lab File: VY023122.D
 Acq: 15 Aug 2025 13:28

Tgt Ion: 117 Resp: 36747
 Ion Ratio Lower Upper
 117 100
 201 0.0 38.4 115.1#

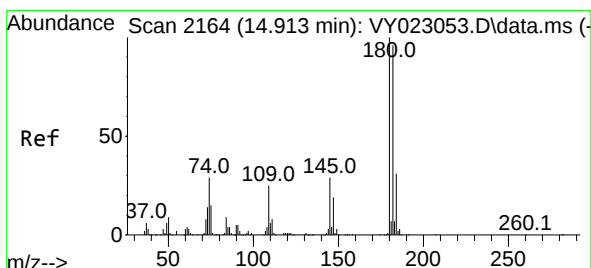
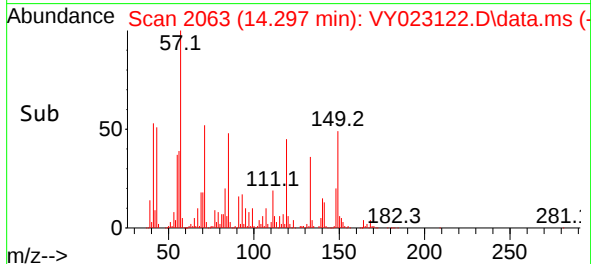
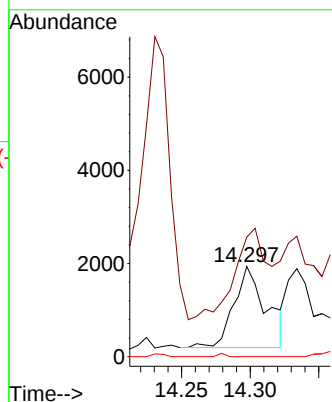
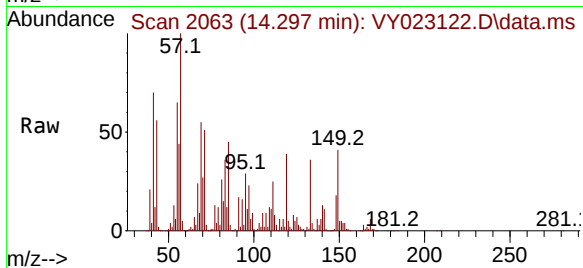




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.013 ug/l
 RT: 14.297 min Scan# 2058
 Delta R.T. 0.031 min
 Lab File: VY023122.D
 Acq: 15 Aug 2025 13:28

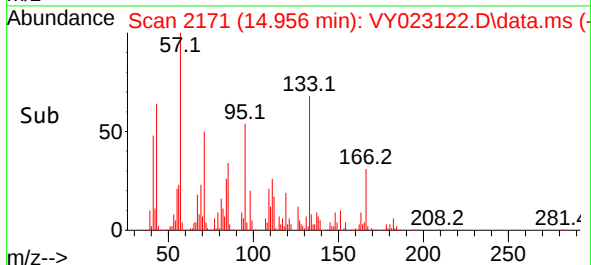
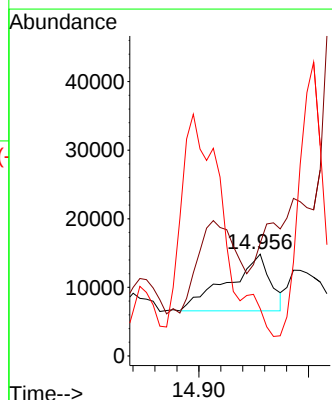
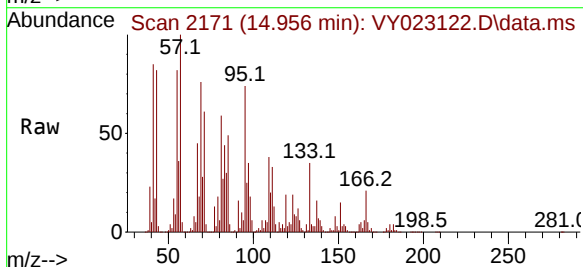
Instrument :
 MSVOA_Y
 ClientSampleId :
 22M-S

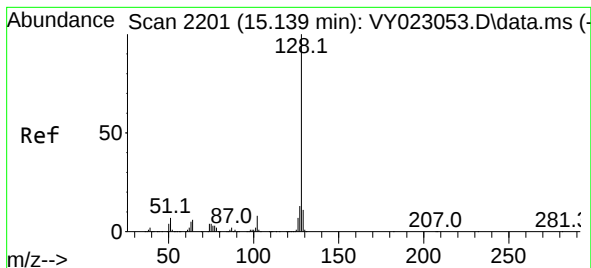
Tgt Ion: 75 Resp: 2837
 Ion Ratio Lower Upper
 75 100
 155 104.8 43.9 131.6
 157 0.0 57.2 171.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.442 ug/l
 RT: 14.956 min Scan# 2171
 Delta R.T. 0.043 min
 Lab File: VY023122.D
 Acq: 15 Aug 2025 13:28

Tgt Ion: 180 Resp: 22334
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.8 140.4#
 145 0.0 14.4 43.4#





#95

Naphthalene

Concen: 2.869 ug/l

RT: 15.114 min Scan# 2197

Delta R.T. -0.024 min

Lab File: VY023122.D

Acq: 15 Aug 2025 13:28

Instrument :

MSVOA_Y

ClientSampleId :

22M-S

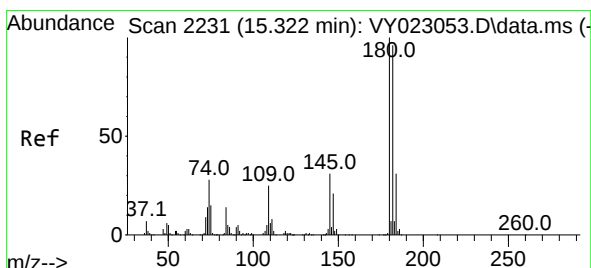
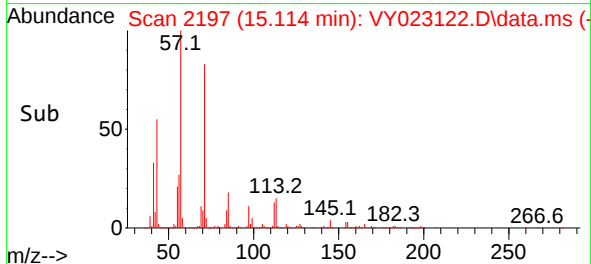
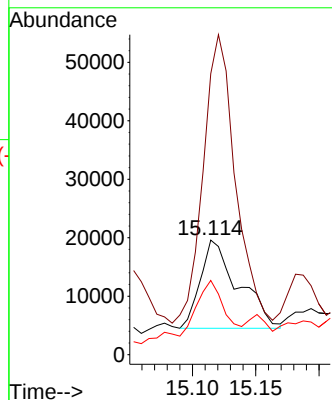
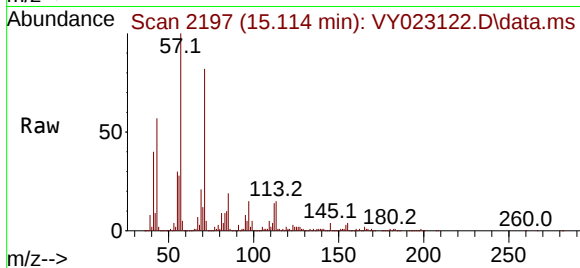
Tgt Ion:128 Resp: 31734

Ion Ratio Lower Upper

128 100

127 273.8 10.4 15.6#

129 63.4 9.0 13.4#



#96

1,2,3-Trichlorobenzene

Concen: 5.918 ug/l

RT: 15.395 min Scan# 2243

Delta R.T. 0.073 min

Lab File: VY023122.D

Acq: 15 Aug 2025 13:28

Tgt Ion:180 Resp: 33084

Ion Ratio Lower Upper

180 100

182 59.6 47.9 143.7

145 24.6 15.9 47.7

