

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
 Data File : VY022782.D
 Acq On : 23 Jun 2025 15:54
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

Quant Time: Jun 24 03:10:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 03:08:29 2025
 Response via : Initial Calibration

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

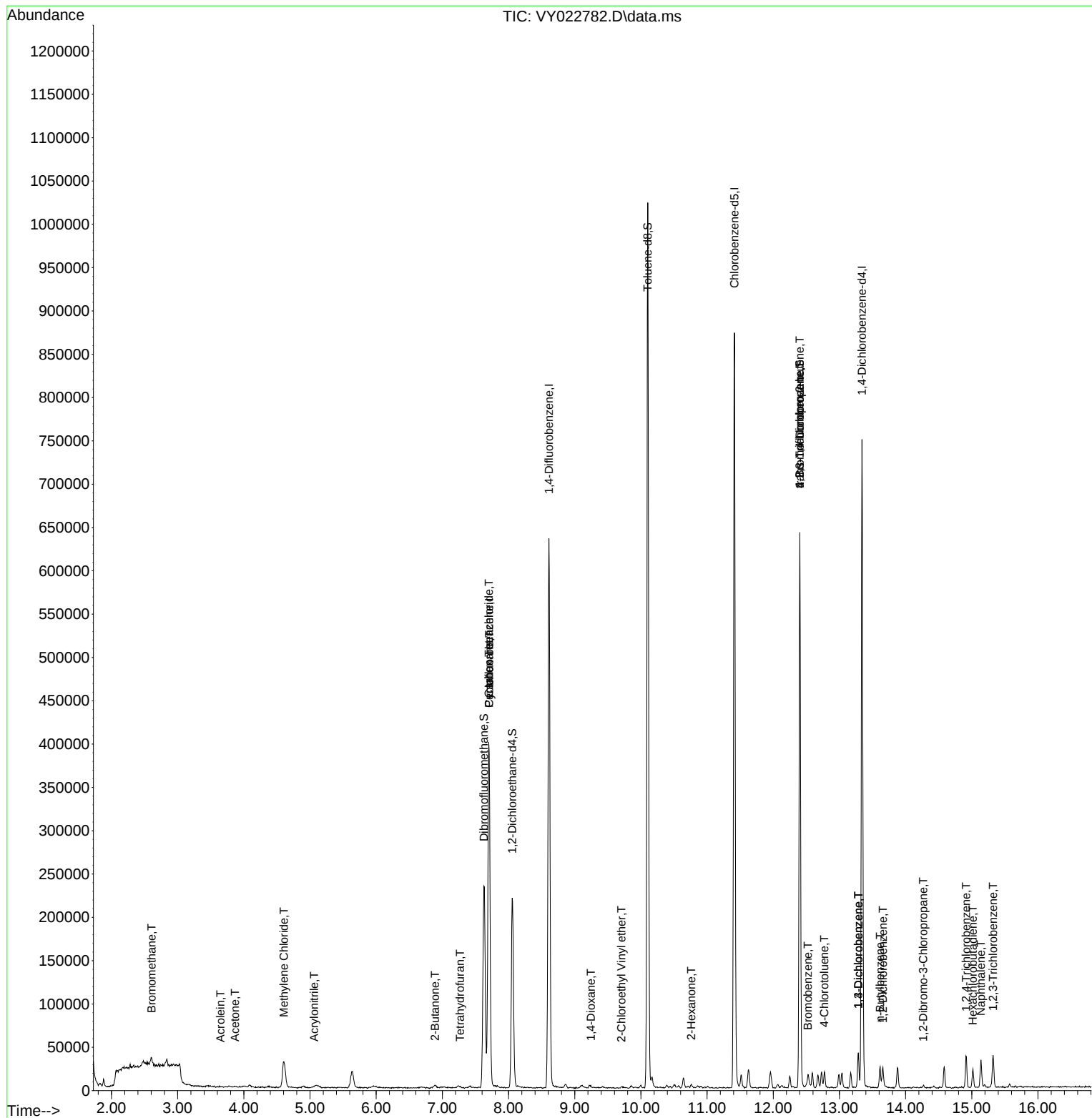
Internal Standards						
1) Pentafluorobenzene	7.707	168	303233	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	538905	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	454273	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	179903	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	176346	52.106	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.220%	
35) Dibromofluoromethane	7.628	113	172737	52.706	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.420%	
50) Toluene-d8	10.103	98	651224	50.075	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.140%	
62) 4-Bromofluorobenzene	12.401	95	185488	44.368	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 88.740%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.604	94	6359	1.308	ug/l #	76
13) Acrolein	3.647	56	423	1.386	ug/l #	39
15) Acrylonitrile	5.061	53	2261	3.203	ug/l #	26
16) Acetone	3.866	43	1548	2.420	ug/l #	83
20) Methylene Chloride	4.604	84	22846	5.655	ug/l #	92
25) 2-Butanone	6.890	43	991	1.064	ug/l	100
29) Tetrahydrofuran	7.268	42	838	1.425	ug/l #	71
31) Cyclohexane	7.707	56	8193	1.409	ug/l #	34
38) Carbon Tetrachloride	7.701	117	30206	5.763	ug/l #	16
49) 1,4-Dioxane	9.243	88	217	9.051	ug/l #	46
58) 2-Chloroethyl Vinyl ether	9.707	63	815	16.066	ug/l #	82
59) 2-Hexanone	10.762	43	2443	1.587	ug/l	96
76) 1,2,3-Trichloropropane	12.401	75	104220	56.744	ug/l #	100
77) Bromobenzene	12.523	156	3498	1.160	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.401	75	104220	143.359	ug/l #	10
82) 4-Chlorotoluene	12.773	91	10225	1.073	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	8524	1.407	ug/l	94
88) 1,4-Dichlorobenzene	13.285	146	8524	1.417	ug/l	95
89) n-Butylbenzene	13.615	91	12092	1.084	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	7919	1.484	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.267	75	605	1.664	ug/l	80
93) 1,2,4-Trichlorobenzene	14.913	180	10273	3.409	ug/l	98
94) Hexachlorobutadiene	15.017	225	3175	1.863	ug/l	91
95) Naphthalene	15.139	128	24170	4.435	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	11008	4.227	ug/l	96

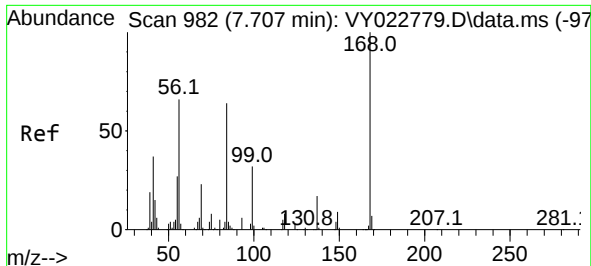
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062325\
Data File : VY022782.D
Acq On : 23 Jun 2025 15:54
Operator : SY/MD
Sample : VIBLK
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

Quant Time: Jun 24 03:10:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 03:08:29 2025
Response via : Initial Calibration

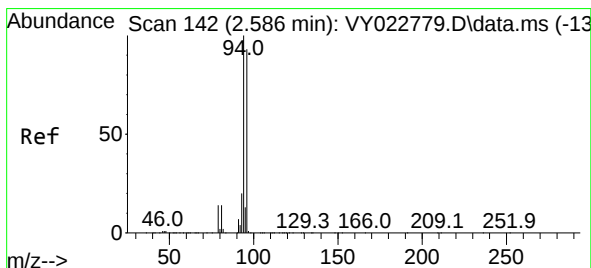
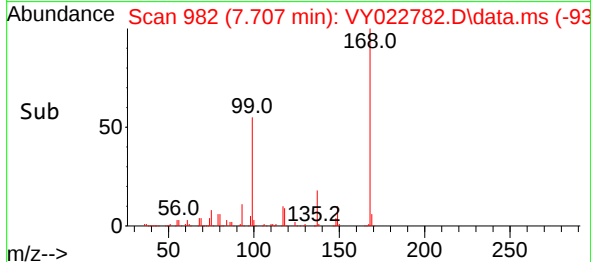
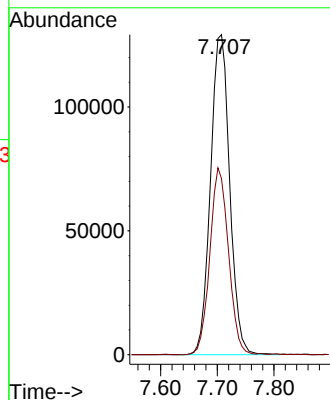
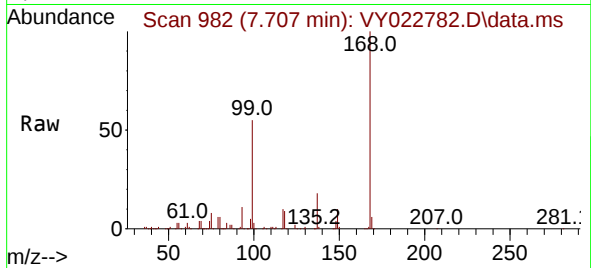




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

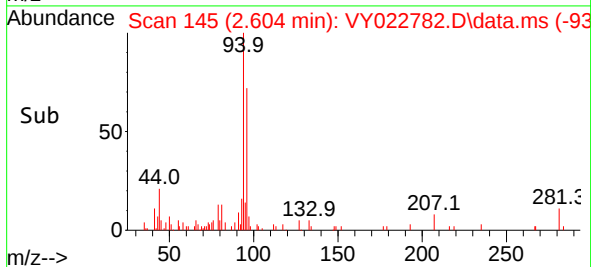
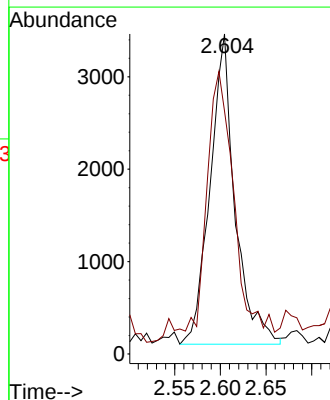
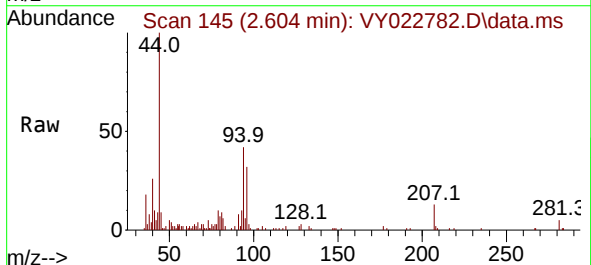
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

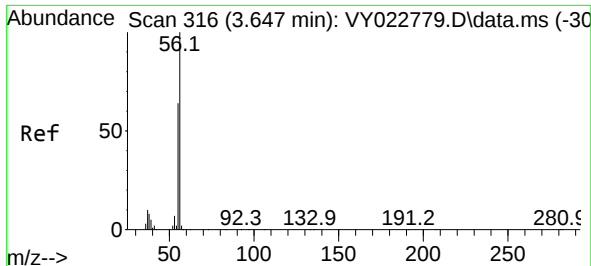
Tgt Ion:168 Resp: 303233
Ion Ratio Lower Upper
168 100
99 55.1 44.6 66.8



#5
Bromomethane
Concen: 1.308 ug/l
RT: 2.604 min Scan# 145
Delta R.T. 0.018 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion: 94 Resp: 6359
Ion Ratio Lower Upper
94 100
96 70.3 74.3 111.5#

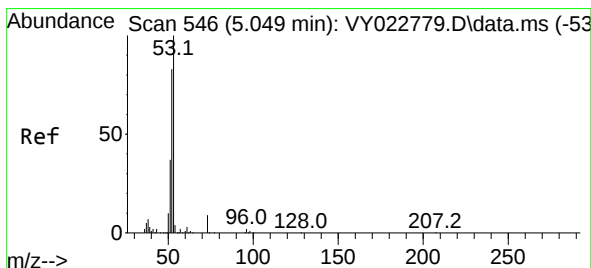
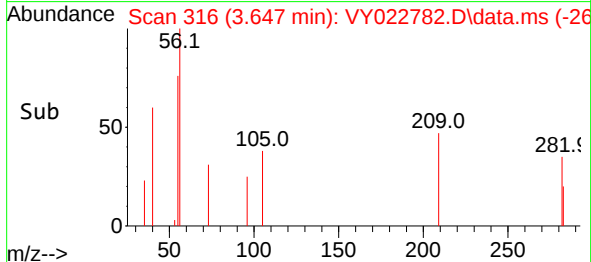
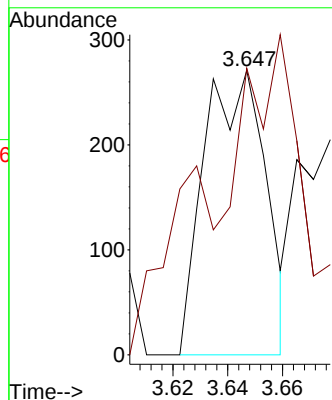
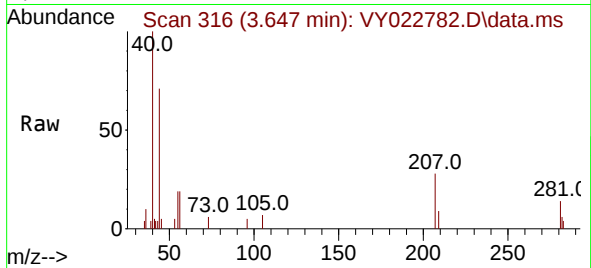




#13
Acrolein
Concen: 1.386 ug/l
RT: 3.647 min Scan# 316
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

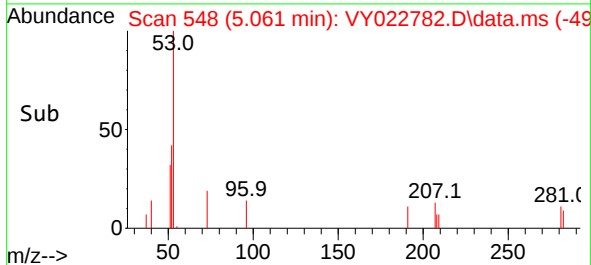
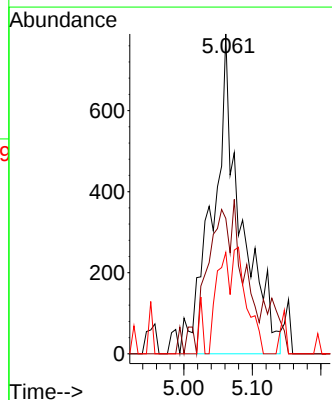
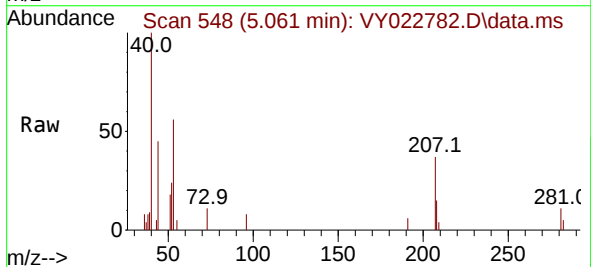
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

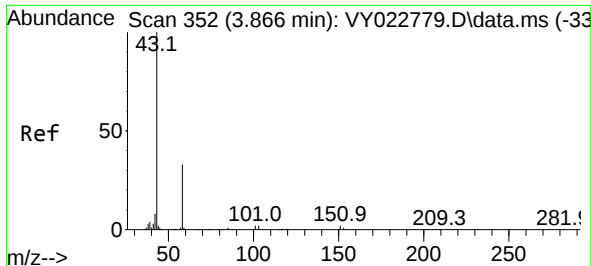
Tgt Ion: 56 Resp: 423
Ion Ratio Lower Upper
56 100
55 118.9 55.4 83.2#



#15
Acrylonitrile
Concen: 3.203 ug/l
RT: 5.061 min Scan# 548
Delta R.T. 0.012 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion: 53 Resp: 2261
Ion Ratio Lower Upper
53 100
52 0.0 65.0 97.4#
51 15.1 30.1 45.1#

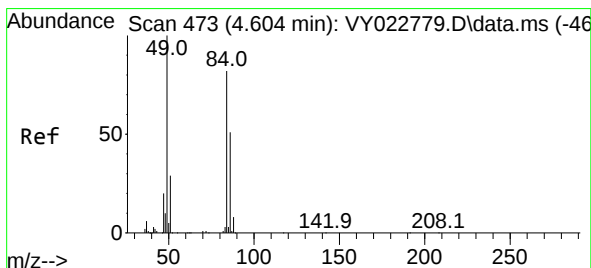
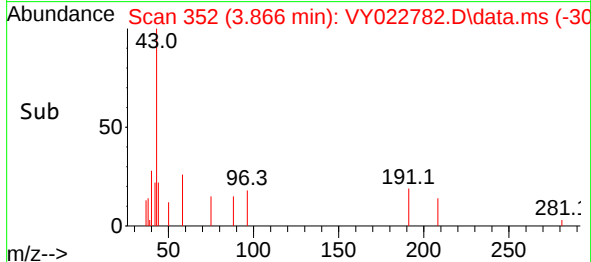
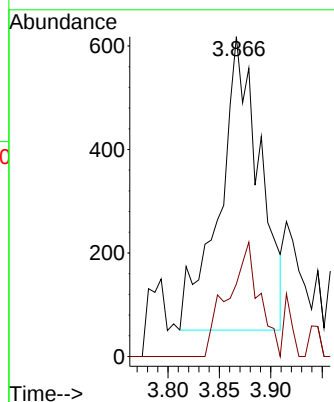
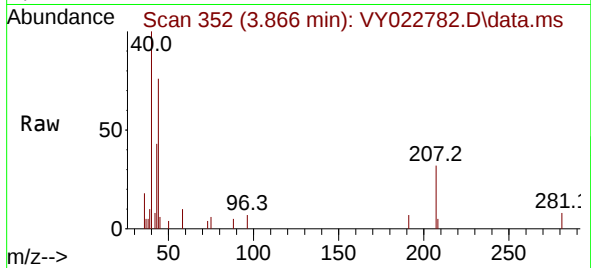




#16
Acetone
Concen: 2.420 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

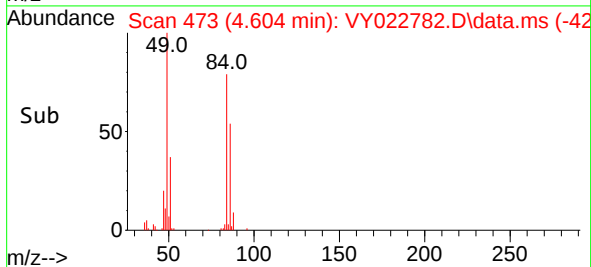
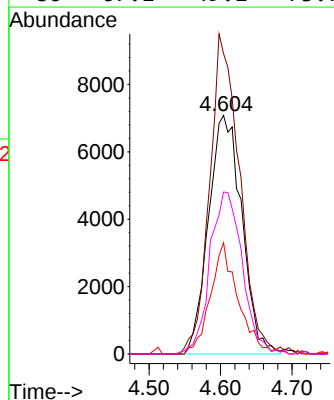
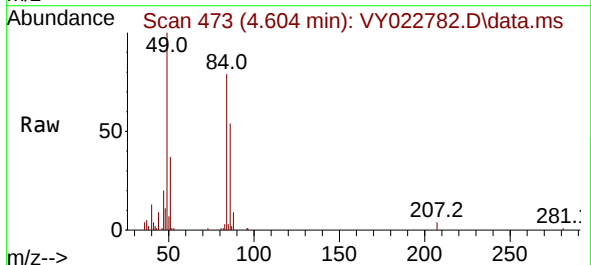
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

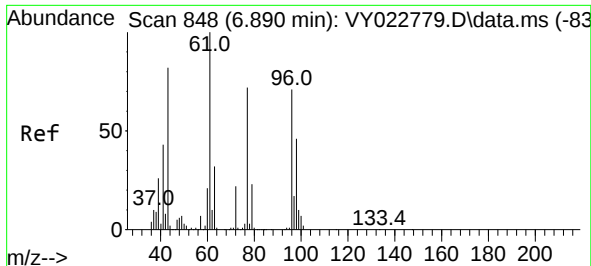
Tgt Ion: 43 Resp: 1548
Ion Ratio Lower Upper
43 100
58 24.7 27.7 41.5#



#20
Methylene Chloride
Concen: 5.655 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion: 84 Resp: 22846
Ion Ratio Lower Upper
84 100
49 125.9 97.2 145.8
51 46.6 27.8 41.8#
86 67.1 49.1 73.7

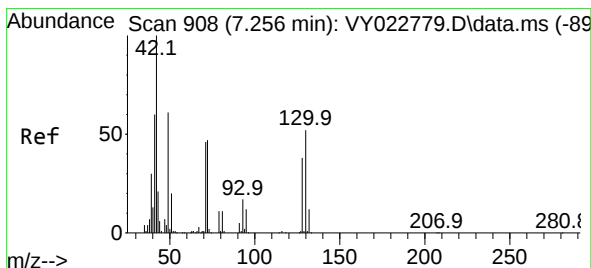
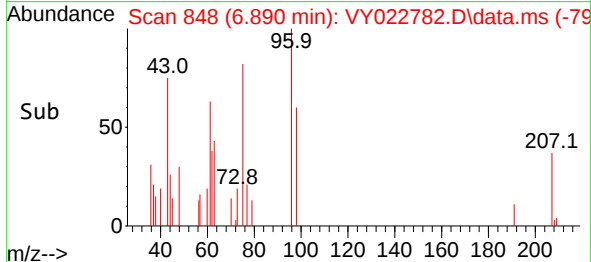
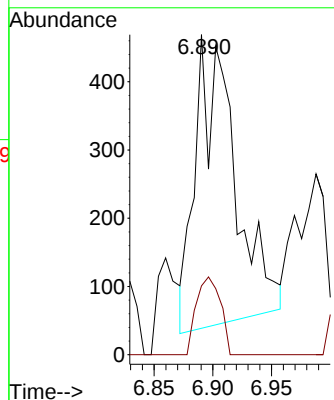
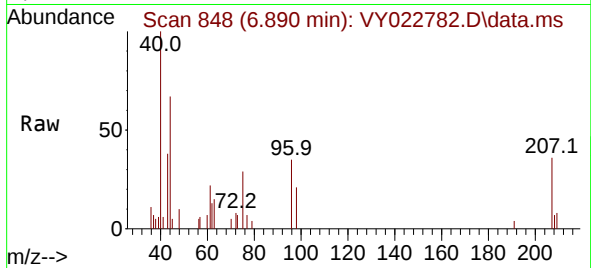




#25
2-Butanone
Concen: 1.064 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

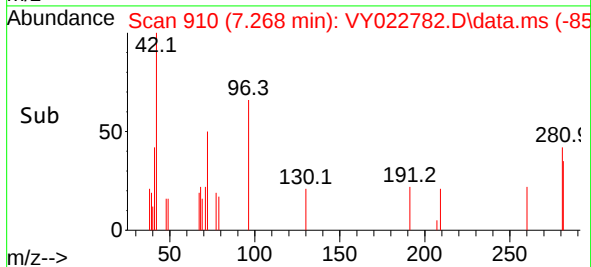
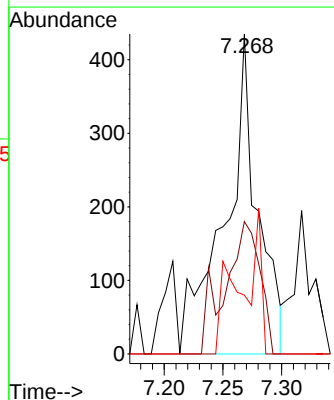
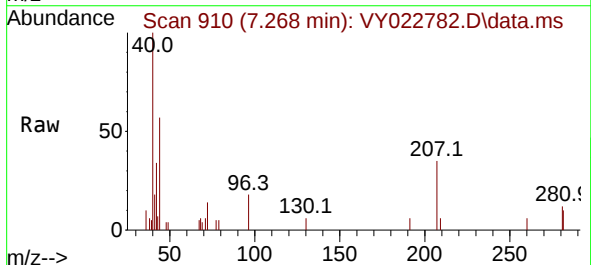
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

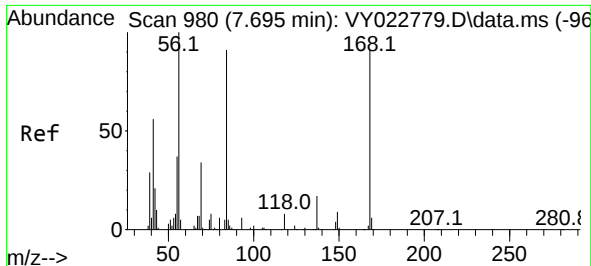
Tgt Ion: 43 Resp: 991
Ion Ratio Lower Upper
43 100
72 27.4 21.9 32.9



#29
Tetrahydrofuran
Concen: 1.425 ug/l
RT: 7.268 min Scan# 910
Delta R.T. 0.012 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion: 42 Resp: 838
Ion Ratio Lower Upper
42 100
72 44.5 37.4 56.2
71 8.6 35.4 53.2#

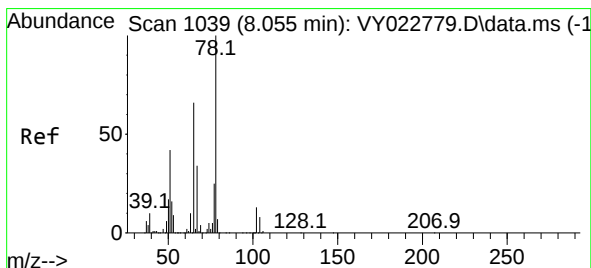
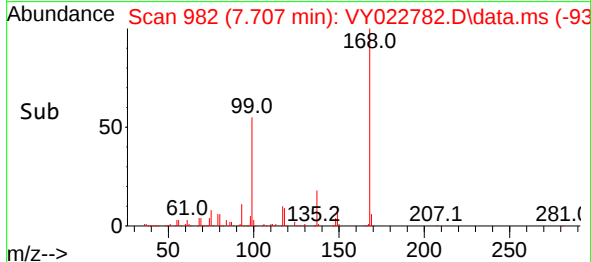
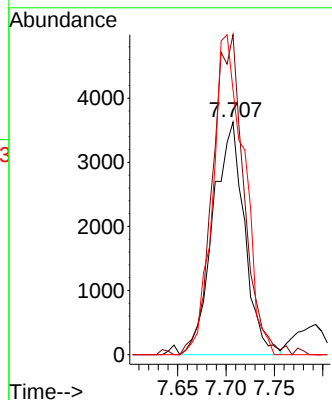
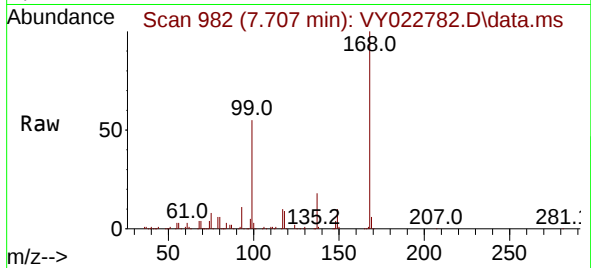




#31
Cyclohexane
Concen: 1.409 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.012 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

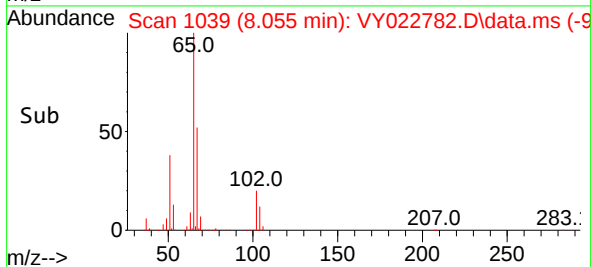
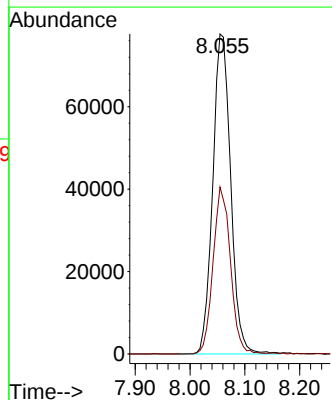
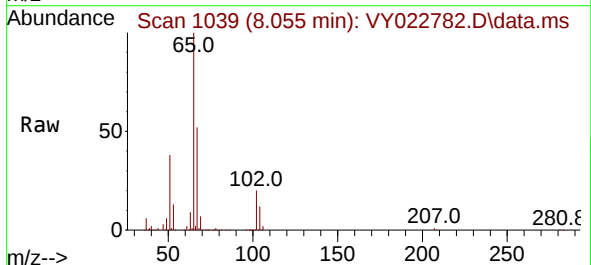
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

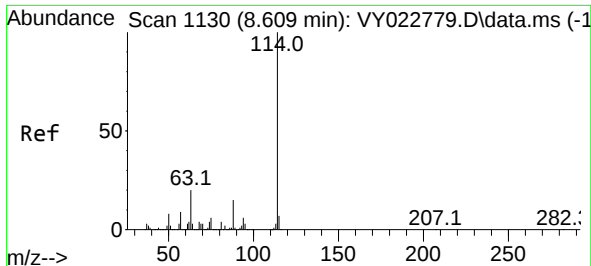
Tgt Ion: 56 Resp: 8193
Ion Ratio Lower Upper
56 100
69 137.7 27.4 41.0#
84 114.0 73.1 109.7#



#33
1,2-Dichloroethane-d4
Concen: 52.106 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion: 65 Resp: 176346
Ion Ratio Lower Upper
65 100
67 50.5 0.0 104.6

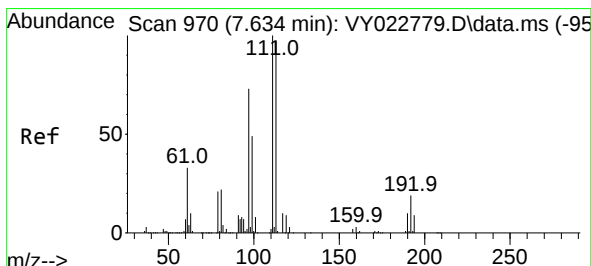
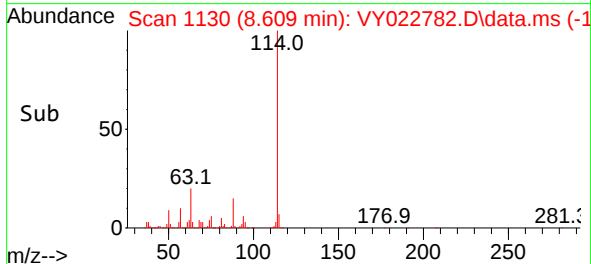
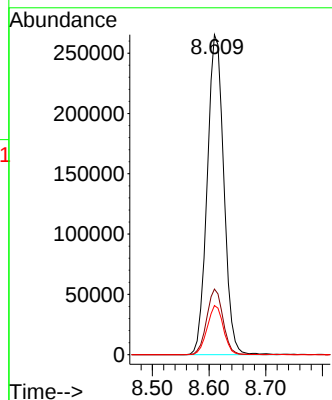
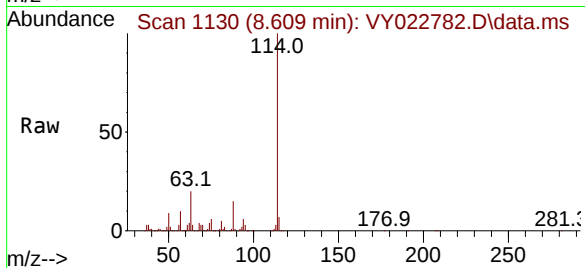




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

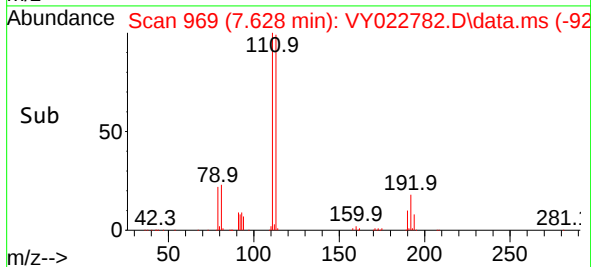
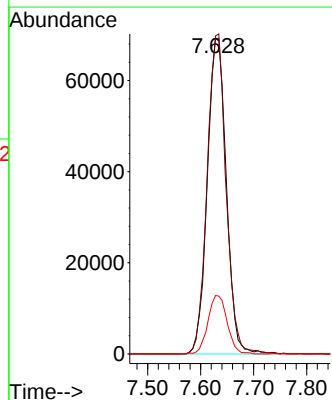
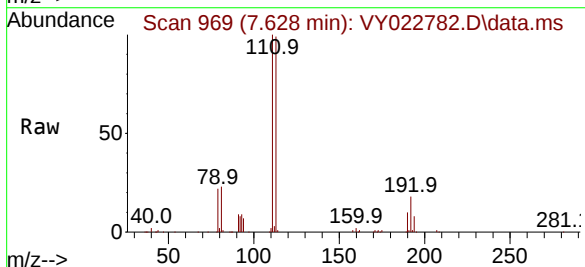
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

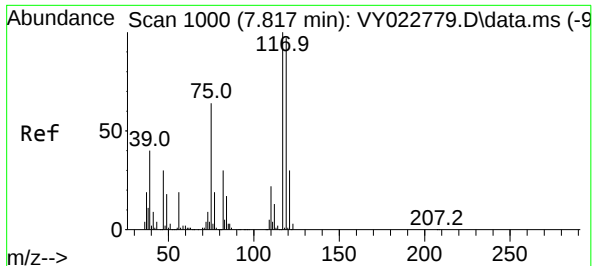
Tgt Ion:114 Resp: 538905
Ion Ratio Lower Upper
114 100
63 20.5 0.0 39.8
88 15.4 0.0 30.4



#35
Dibromofluoromethane
Concen: 52.706 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion:113 Resp: 172737
Ion Ratio Lower Upper
113 100
111 100.9 82.8 124.2
192 18.7 15.6 23.4

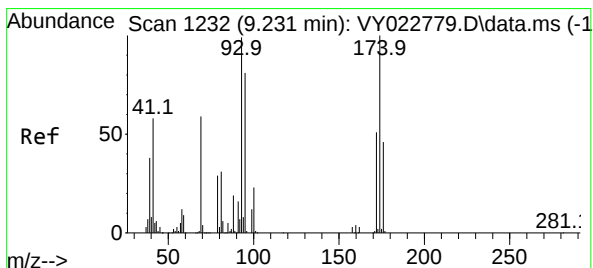
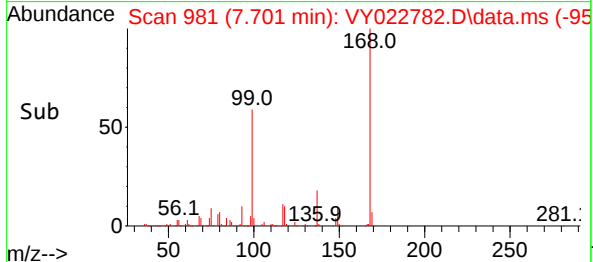
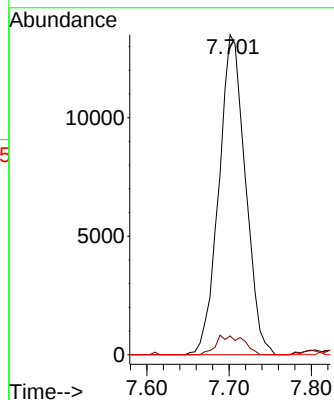
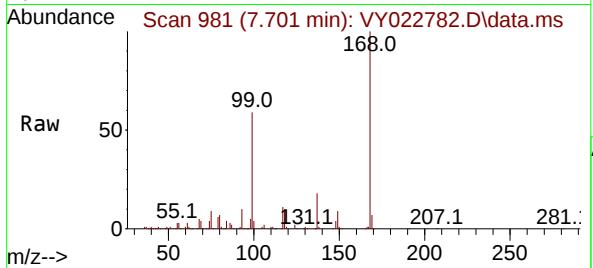




#38
Carbon Tetrachloride
Concen: 5.763 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

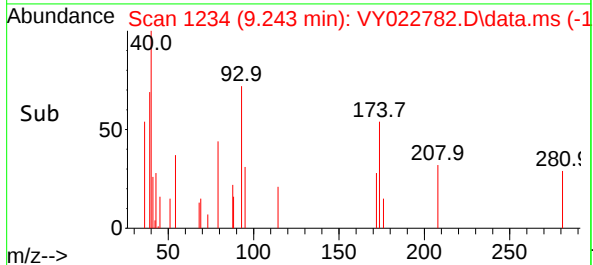
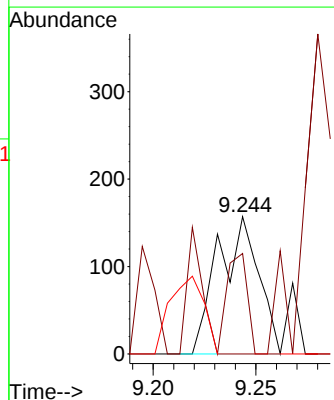
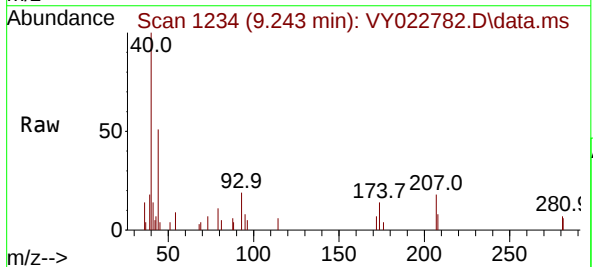
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

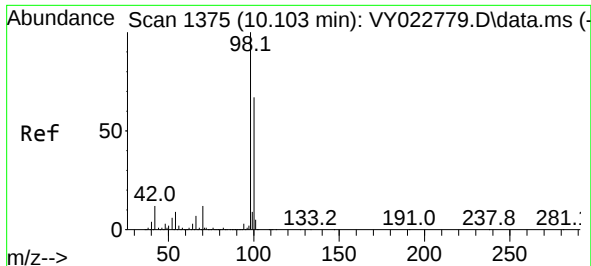
Tgt Ion:117 Resp: 30206
Ion Ratio Lower Upper
117 100
119 5.8 77.5 116.3#
121 0.0 24.1 36.1#



#49
1,4-Dioxane
Concen: 9.051 ug/l
RT: 9.243 min Scan# 1234
Delta R.T. 0.012 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion: 88 Resp: 217
Ion Ratio Lower Upper
88 100
43 36.9 27.6 41.4
58 0.0 50.6 75.8#

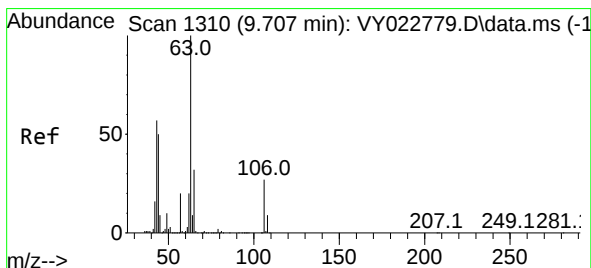
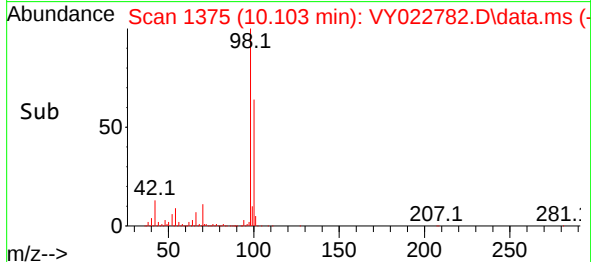
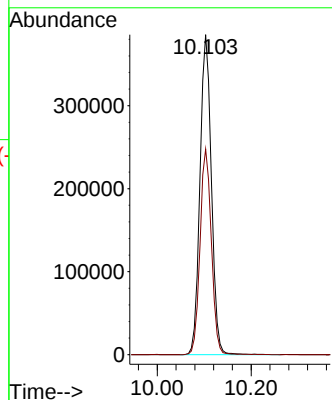
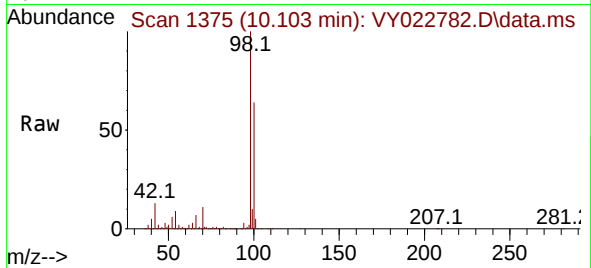




#50
Toluene-d8
Concen: 50.075 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

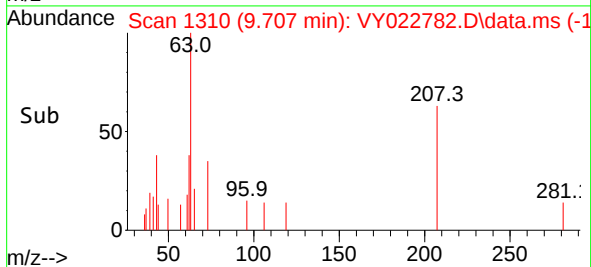
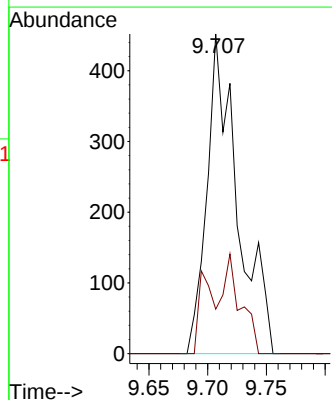
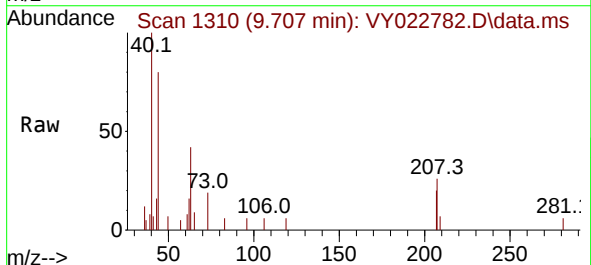
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

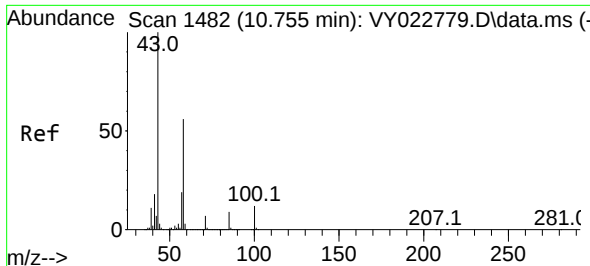
Tgt Ion: 98 Resp: 651224
Ion Ratio Lower Upper
98 100
100 63.8 52.2 78.4



#58
2-Chloroethyl Vinyl ether
Concen: 16.066 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion: 63 Resp: 815
Ion Ratio Lower Upper
63 100
106 18.3 22.3 33.5#

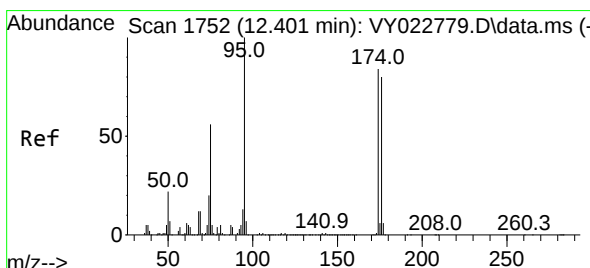
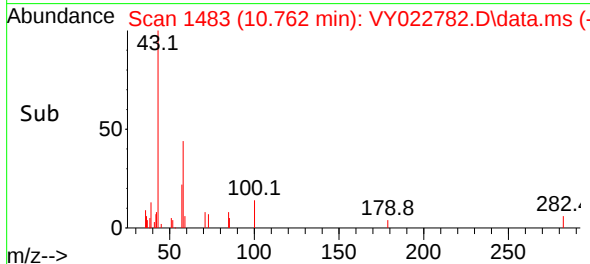
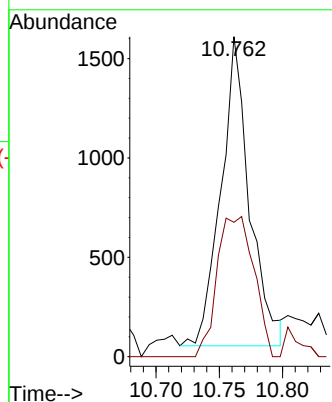
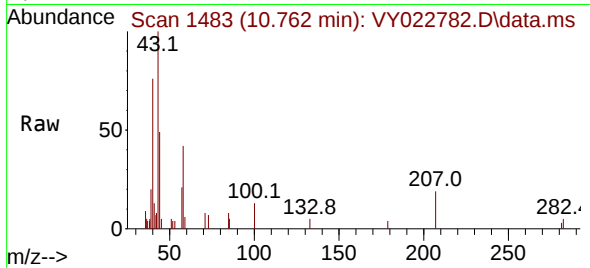




#59
2-Hexanone
Concen: 1.587 ug/l
RT: 10.762 min Scan# 1483
Delta R.T. 0.006 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

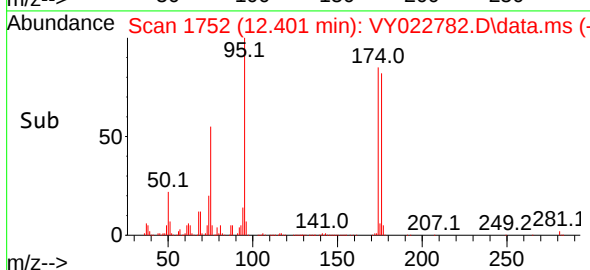
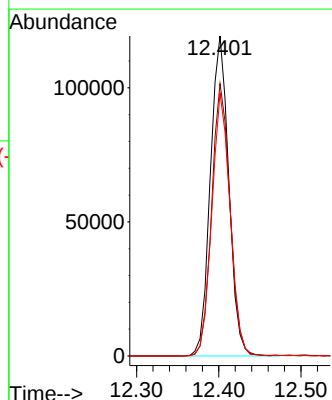
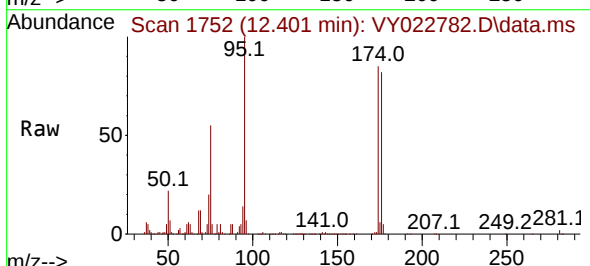
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

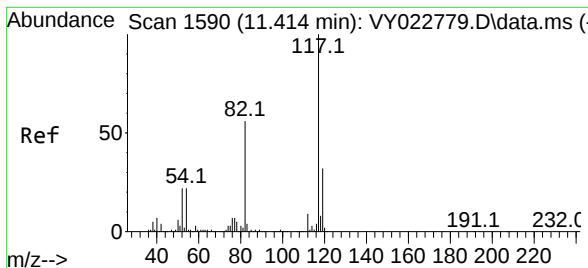
Tgt Ion: 43 Resp: 2443
Ion Ratio Lower Upper
43 100
58 58.5 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 44.368 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion: 95 Resp: 185488
Ion Ratio Lower Upper
95 100
174 84.8 0.0 168.2
176 81.6 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY022782.D

Acq: 23 Jun 2025 15:54

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

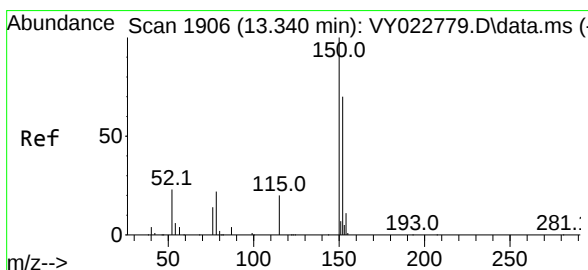
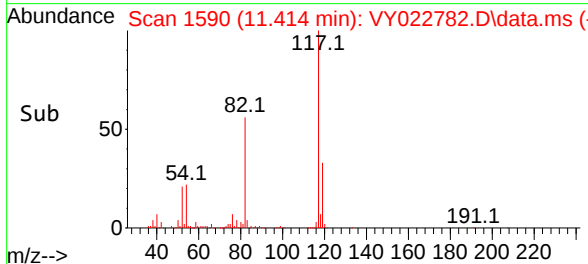
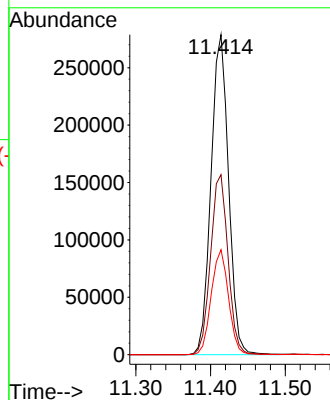
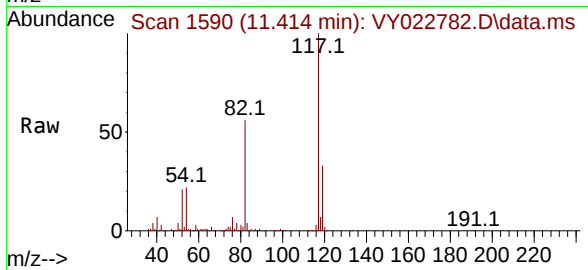
Tgt Ion:117 Resp: 454273

Ion Ratio Lower Upper

117 100

82 56.2 45.1 67.7

119 32.8 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY022782.D

Acq: 23 Jun 2025 15:54

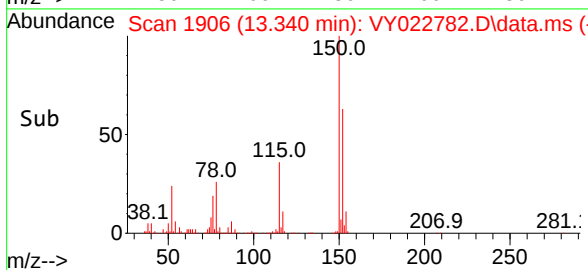
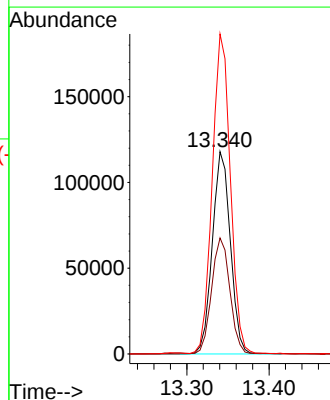
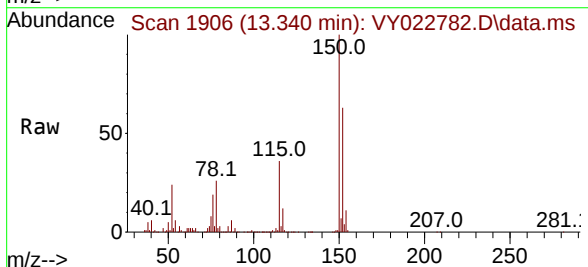
Tgt Ion:152 Resp: 179903

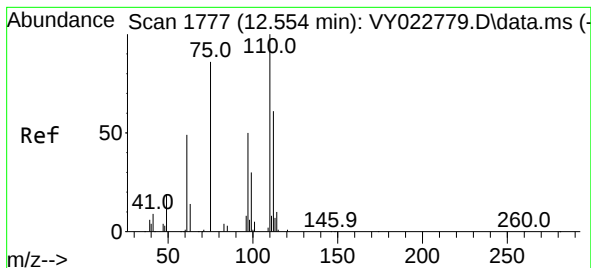
Ion Ratio Lower Upper

152 100

115 57.9 28.1 84.3

150 157.9 0.0 346.4

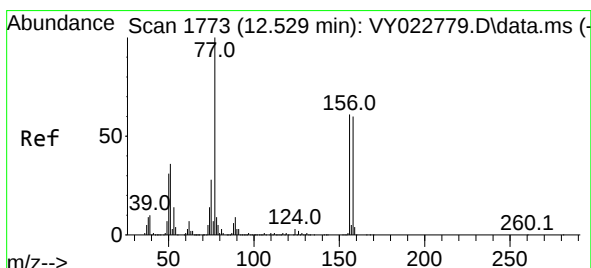
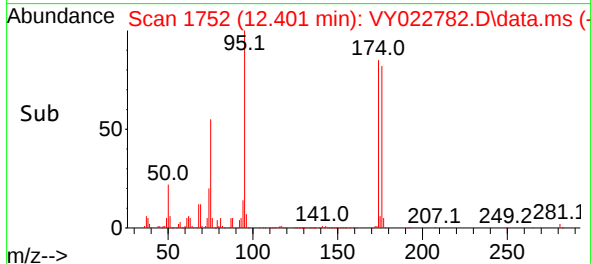
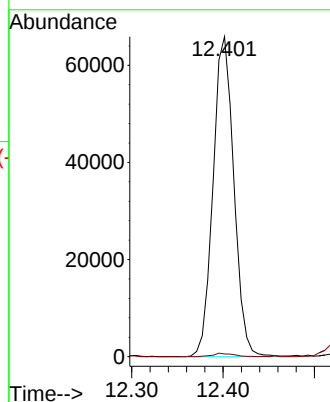
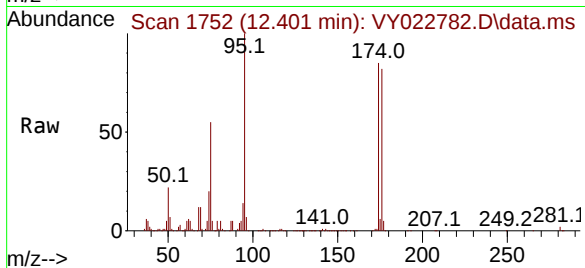




#76
1,2,3-Trichloropropane
Concen: 56.744 ug/l
RT: 12.401 min Scan# 1772
Delta R.T. -0.152 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

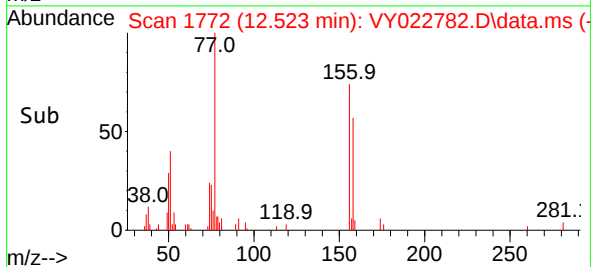
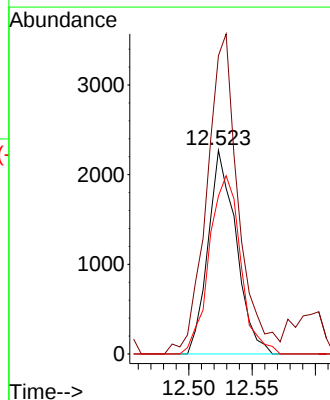
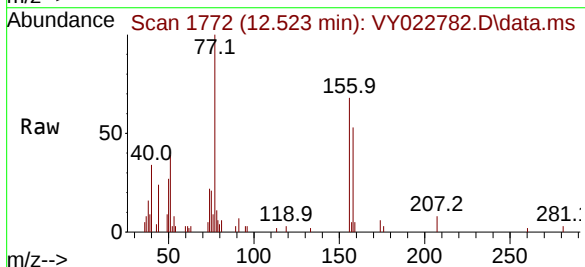
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

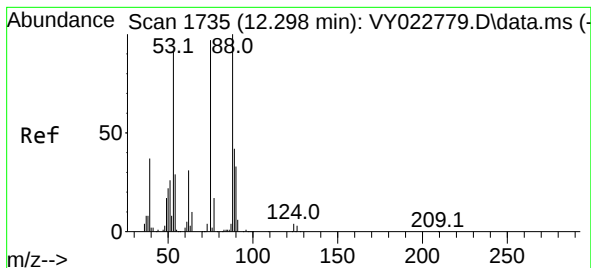
Tgt Ion: 75 Resp: 104220
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#77
Bromobenzene
Concen: 1.160 ug/l
RT: 12.523 min Scan# 1772
Delta R.T. -0.006 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion: 156 Resp: 3498
Ion Ratio Lower Upper
156 100
77 177.4 93.4 280.2
158 97.9 48.4 145.3

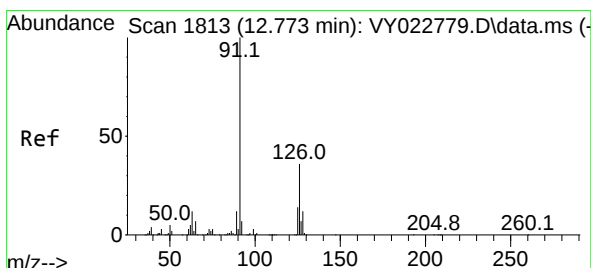
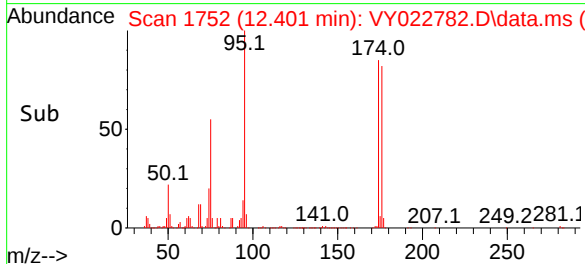
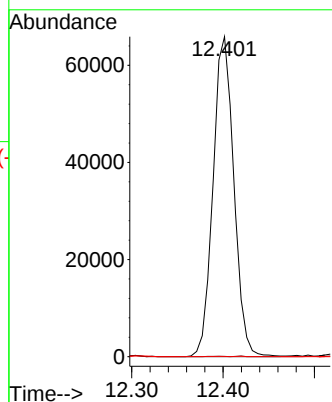
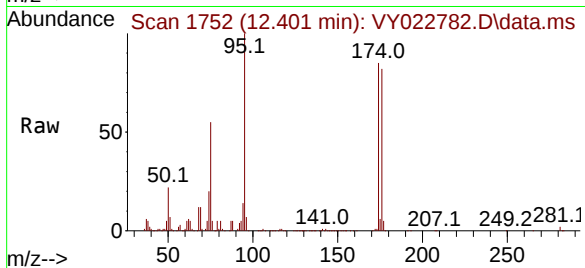




#81
trans-1,4-Dichloro-2-butene
Concen: 143.359 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

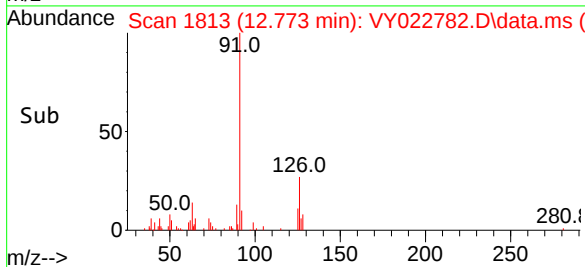
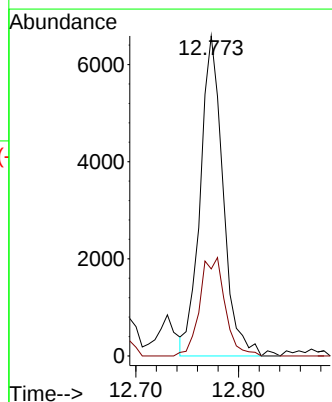
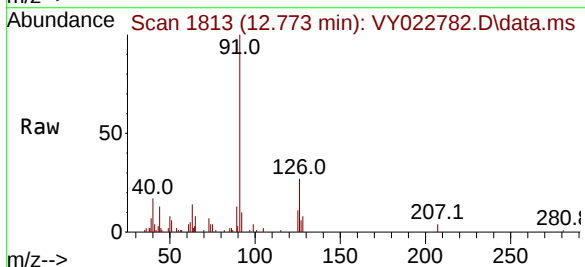
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

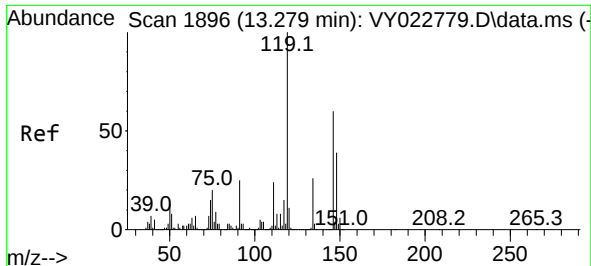
Tgt Ion: 75 Resp: 104220
Ion Ratio Lower Upper
75 100
53 0.1 79.7 119.5#
89 0.0 36.8 55.2#



#82
4-Chlorotoluene
Concen: 1.073 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion: 91 Resp: 10225
Ion Ratio Lower Upper
91 100
126 33.8 16.9 50.7

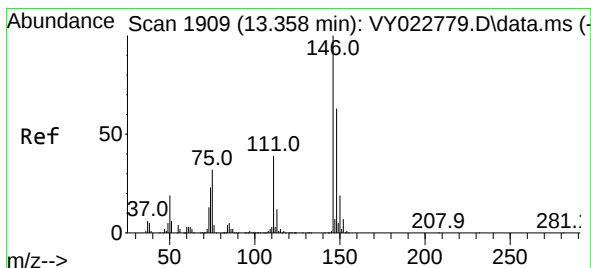
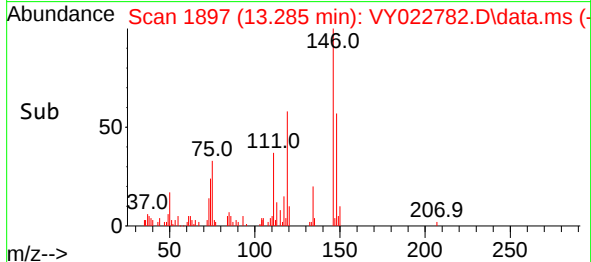
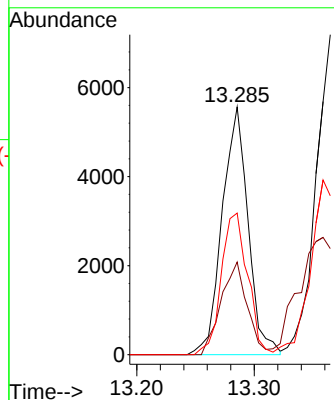
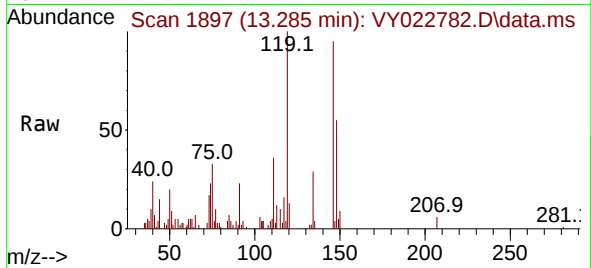




#87
1,3-Dichlorobenzene
Concen: 1.407 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.006 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

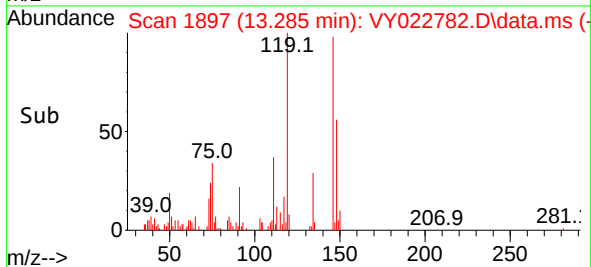
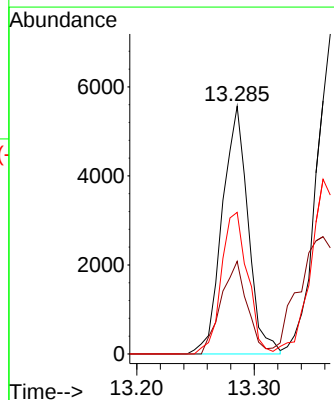
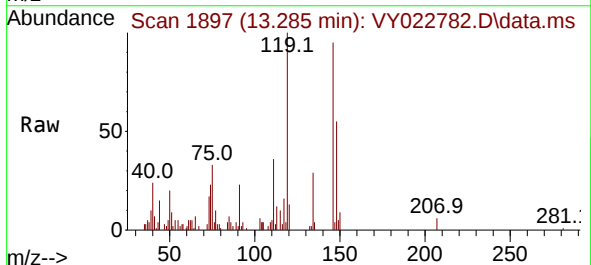
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

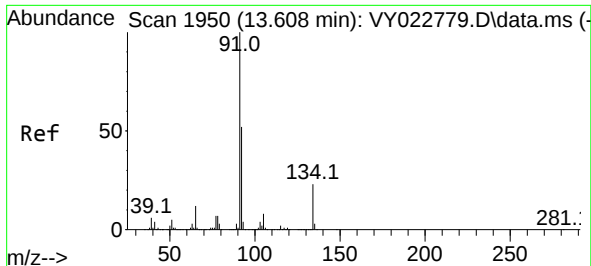
Tgt Ion:146 Resp: 8524
Ion Ratio Lower Upper
146 100
111 37.7 19.8 59.4
148 58.2 31.9 95.9



#88
1,4-Dichlorobenzene
Concen: 1.417 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.073 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

Tgt Ion:146 Resp: 8524
Ion Ratio Lower Upper
146 100
111 37.7 19.3 57.9
148 58.2 31.7 95.1





#89

n-Butylbenzene

Concen: 1.084 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.006 min

Lab File: VY022782.D

Acq: 23 Jun 2025 15:54

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

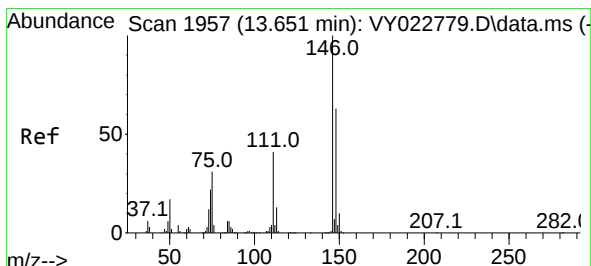
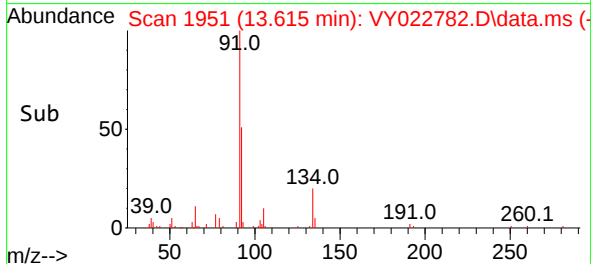
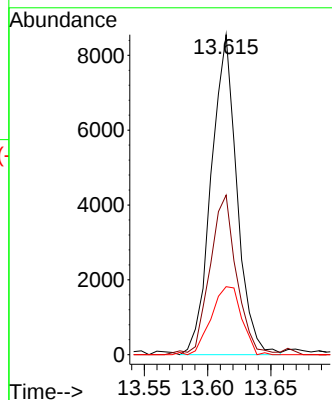
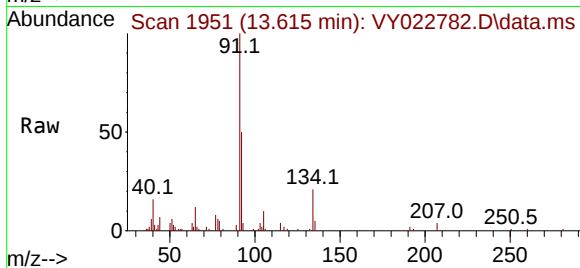
Tgt Ion: 91 Resp: 12092

Ion Ratio Lower Upper

91 100

92 51.6 26.4 79.0

134 25.1 12.2 36.6



#91

1,2-Dichlorobenzene

Concen: 1.484 ug/l

RT: 13.657 min Scan# 1958

Delta R.T. 0.006 min

Lab File: VY022782.D

Acq: 23 Jun 2025 15:54

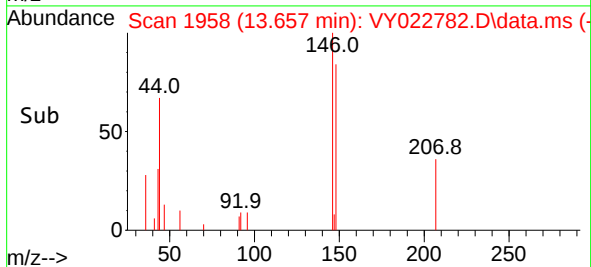
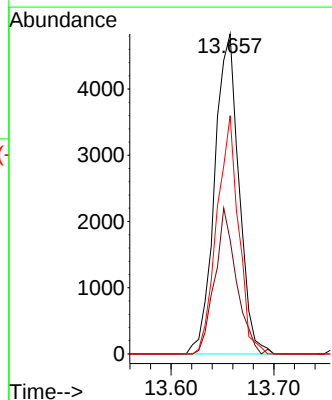
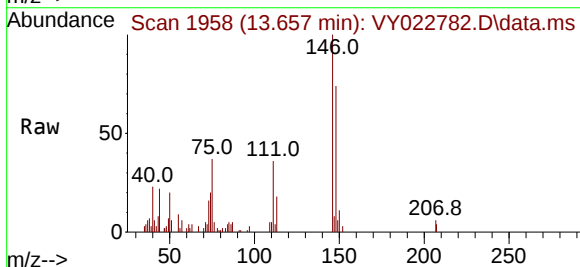
Tgt Ion:146 Resp: 7919

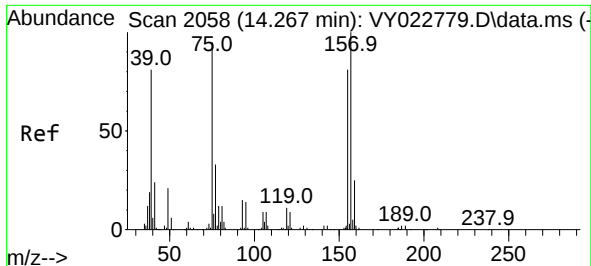
Ion Ratio Lower Upper

146 100

111 40.7 20.5 61.6

148 66.6 31.6 95.0

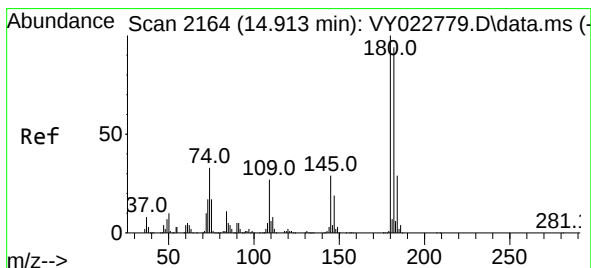
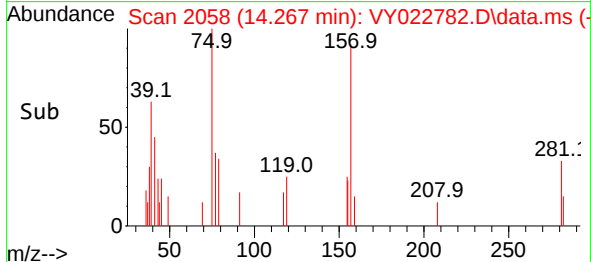
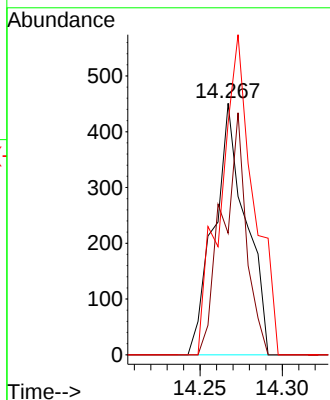
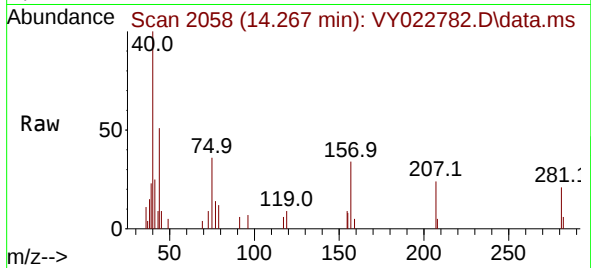




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.664 ug/l
 RT: 14.267 min Scan# 2058
 Delta R.T. 0.000 min
 Lab File: VY022782.D
 Acq: 23 Jun 2025 15:54

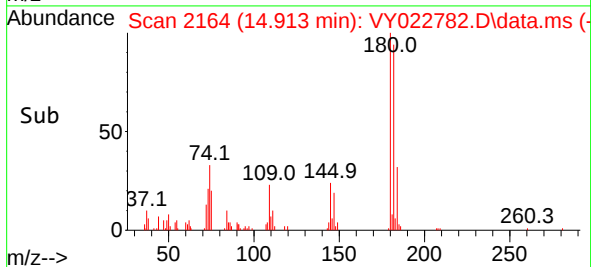
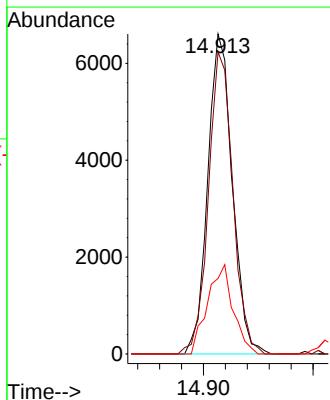
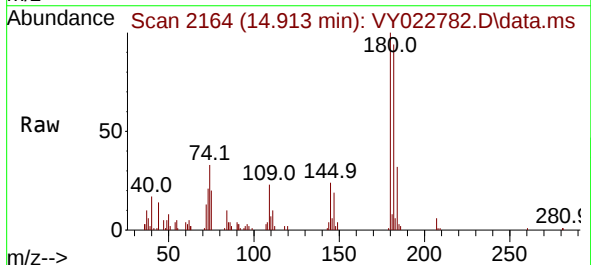
Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

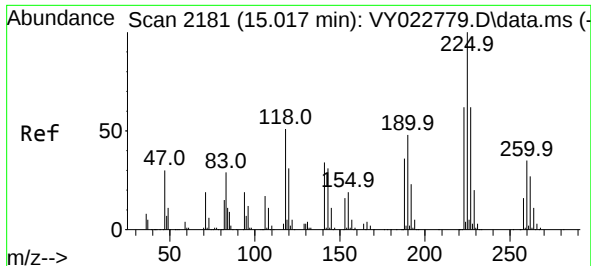
Tgt Ion: 75 Resp: 605
 Ion Ratio Lower Upper
 75 100
 155 72.6 41.6 124.9
 157 131.7 52.6 157.8



#93
 1,2,4-Trichlorobenzene
 Concen: 3.409 ug/l
 RT: 14.913 min Scan# 2164
 Delta R.T. 0.000 min
 Lab File: VY022782.D
 Acq: 23 Jun 2025 15:54

Tgt Ion: 180 Resp: 10273
 Ion Ratio Lower Upper
 180 100
 182 93.9 47.8 143.4
 145 29.1 15.0 45.0

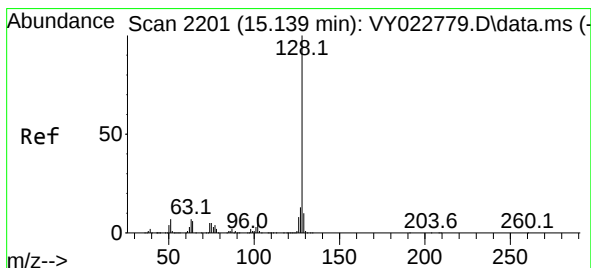
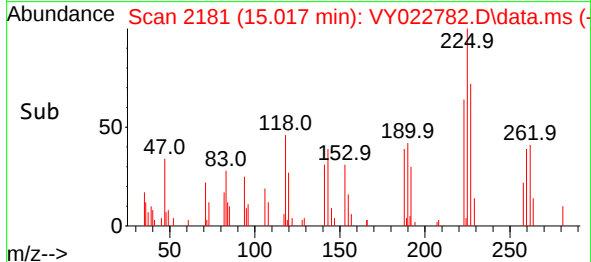
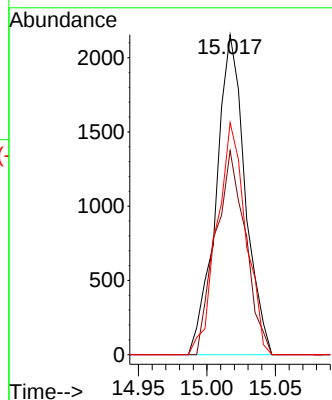
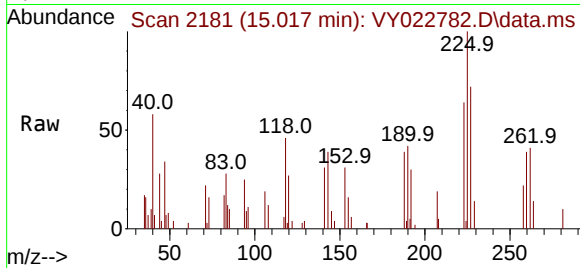




#94
Hexachlorobutadiene
Concen: 1.863 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

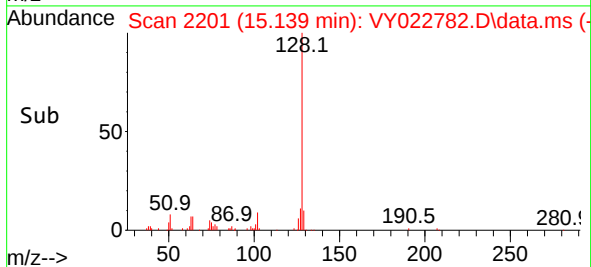
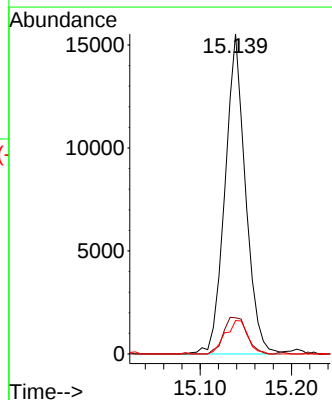
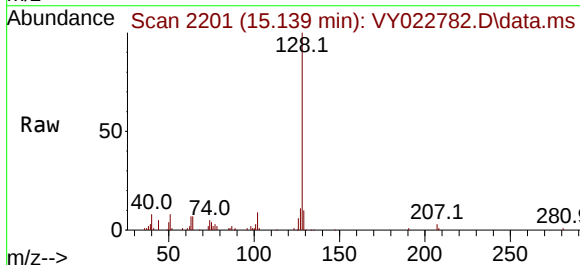
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

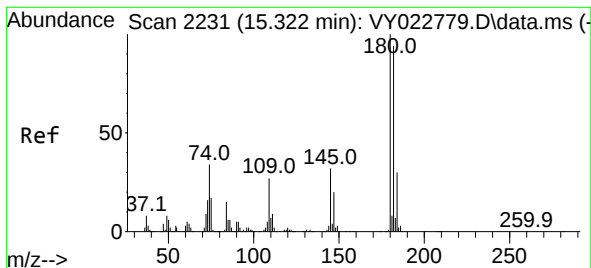
Tgt Ion:225 Resp: 3175
Ion Ratio Lower Upper
225 100
223 65.9 30.9 92.5
227 72.2 31.6 94.8



#95
Naphthalene
Concen: 4.435 ug/l
RT: 15.139 min Scan# 2201
Delta R.T. 0.000 min
Lab File: VY022782.D
Acq: 23 Jun 2025 15:54

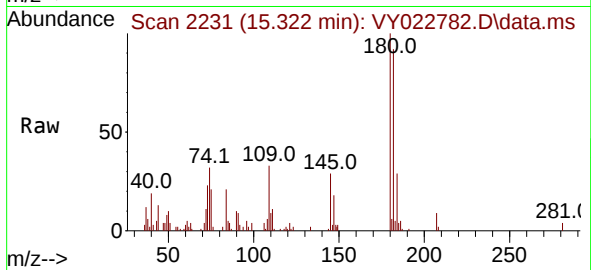
Tgt Ion:128 Resp: 24170
Ion Ratio Lower Upper
128 100
127 13.1 10.3 15.5
129 11.4 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 4.227 ug/l
 RT: 15.322 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY022782.D
 Acq: 23 Jun 2025 15:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK



Tgt Ion:	180	Resp:	11008
Ion	Ratio	Lower	Upper
180	100		
182	89.0	46.7	140.1
145	30.7	15.8	47.4

