

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121625\
 Data File : VY023991.D
 Acq On : 16 Dec 2025 15:39
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

Quant Time: Dec 17 04:14:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121625S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 17 04:12:33 2025
 Response via : Initial Calibration

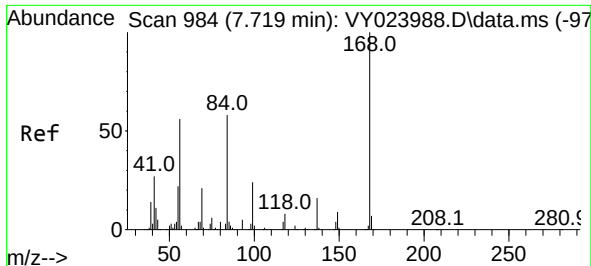
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.719	168	692039	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1145187	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	992449	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	406845	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	329550	63.007	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 126.020%	
35) Dibromofluoromethane	7.640	113	363955	53.106	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.220%	
50) Toluene-d8	10.109	98	1295787	52.399	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 104.800%	
62) 4-Bromofluorobenzene	12.407	95	391054	48.247	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 96.500%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.617	94	6272	1.076	ug/l	93
10) Methyl Iodide	4.025	142	3881	6.001	ug/l	94
13) Acrolein	3.671	56	703	1.369	ug/l #	59
16) Acetone	3.885	43	15627	5.209	ug/l	98
20) Methylene Chloride	4.628	84	34551	4.807	ug/l	98
31) Cyclohexane	7.713	56	11857	1.295	ug/l #	1
36) 1,1-Dichloropropene	7.713	75	42836	4.560	ug/l #	48
38) Carbon Tetrachloride	7.719	117	61698	5.244	ug/l #	16
49) 1,4-Dioxane	9.237	88	48	1.136	ug/l #	1
56) Ethyl methacrylate	10.457	69	742	5.317	ug/l #	66
58) 2-Chloroethyl Vinyl ether	9.731	63	551	4.999	ug/l	89
74) N-amyl acetate	12.078	43	2202	2.865	ug/l	95
76) 1,2,3-Trichloropropane	12.407	75	188832	54.967	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	188832	134.157	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.273	75	816	1.319	ug/l	84
93) 1,2,4-Trichlorobenzene	14.925	180	13124	1.973	ug/l	98
94) Hexachlorobutadiene	15.029	225	5709	1.226	ug/l	97
95) Naphthalene	15.145	128	25256	4.117	ug/l	98
96) 1,2,3-Trichlorobenzene	15.328	180	13354	2.393	ug/l	97

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

Quant Time: Dec 17 04:14:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121625S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 17 04:12:33 2025
Response via : Initial Calibration

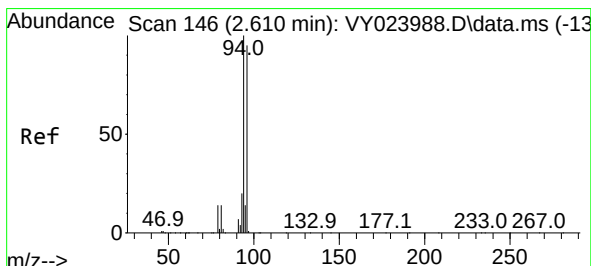
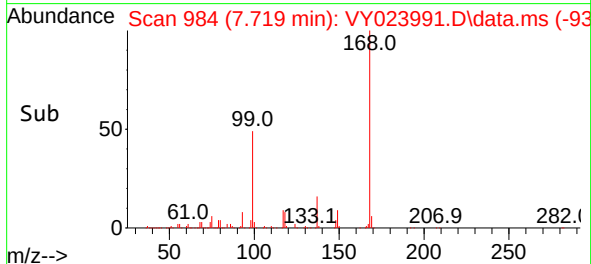
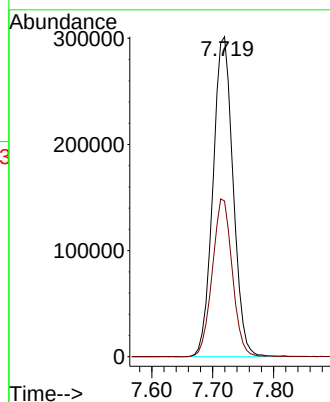
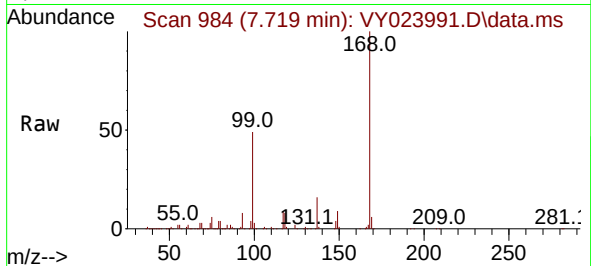




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

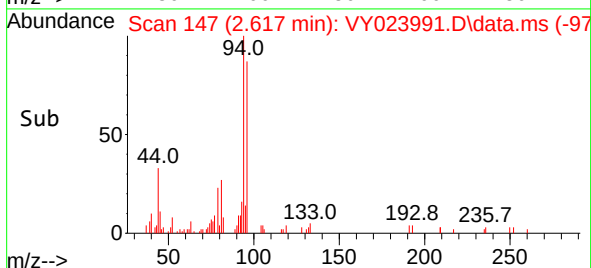
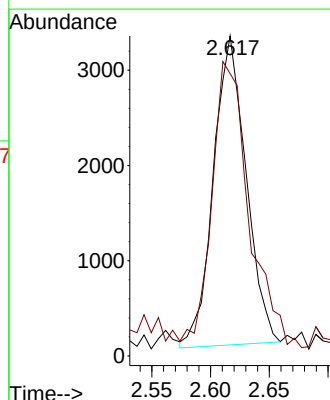
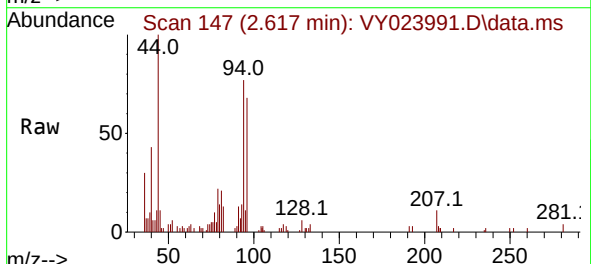
Instrument :
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VIBLK

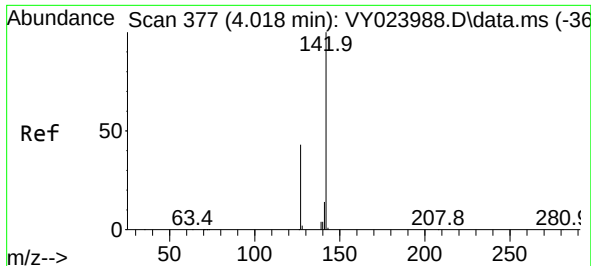
Tgt Ion:168 Resp: 692039
Ion Ratio Lower Upper
168 100
99 48.6 38.3 57.5



#5
Bromomethane
Concen: 1.076 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.006 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

Tgt Ion: 94 Resp: 6272
Ion Ratio Lower Upper
94 100
96 87.5 75.6 113.4

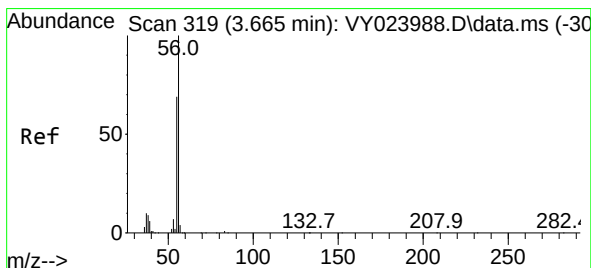
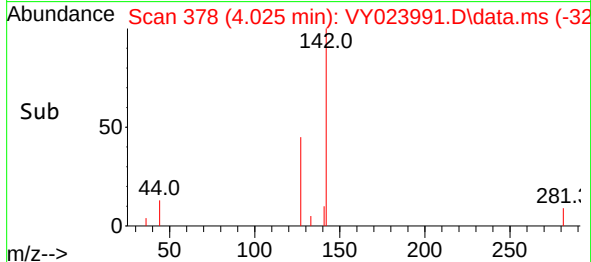
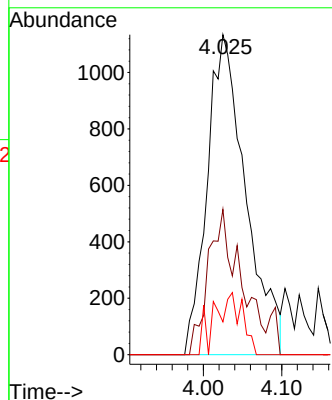
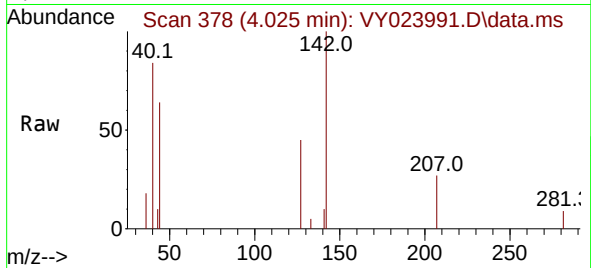




#10
Methyl Iodide
Concen: 6.001 ug/l
RT: 4.025 min Scan# 31
Delta R.T. 0.007 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

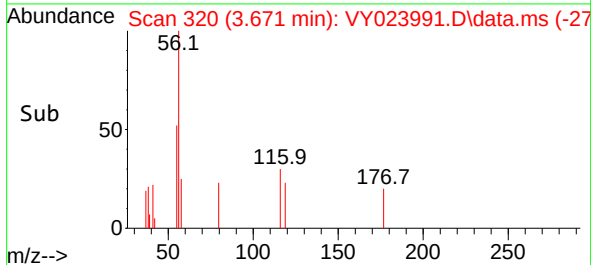
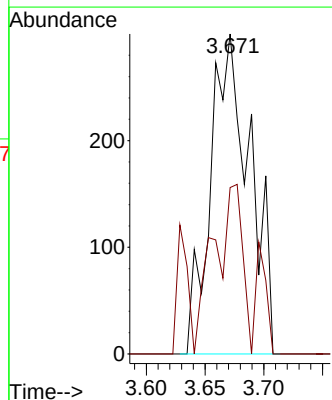
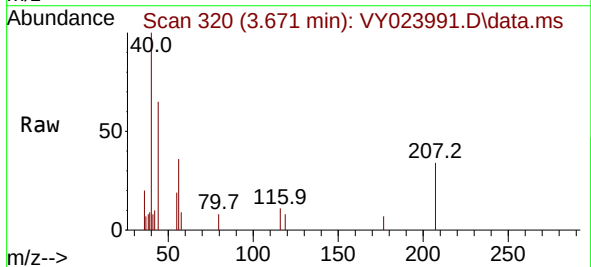
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MSVOA_Y
ClientSampleId :
VIBLK

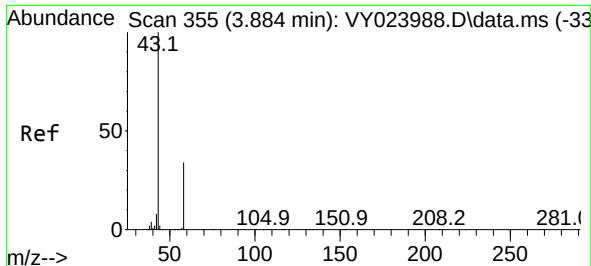
Tgt Ion:142 Resp: 3881
Ion Ratio Lower Upper
142 100
127 38.1 34.3 51.5
141 14.0 11.7 17.5



#13
Acrolein
Concen: 1.369 ug/l
RT: 3.671 min Scan# 320
Delta R.T. 0.006 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

Tgt Ion: 56 Resp: 703
Ion Ratio Lower Upper
56 100
55 38.7 58.1 87.1#





#16

Acetone

Concen: 5.209 ug/l

RT: 3.885 min Scan# 355

Delta R.T. 0.001 min

Lab File: VY023991.D

Acq: 16 Dec 2025 15:39

Instrument :

MSVOA_Y

ClientSampleId :

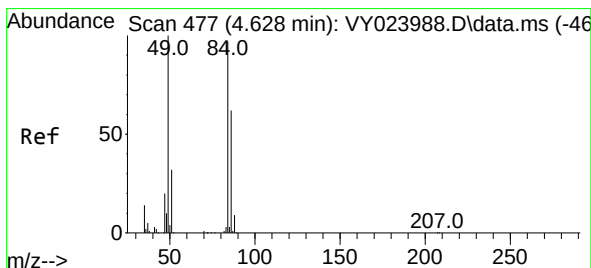
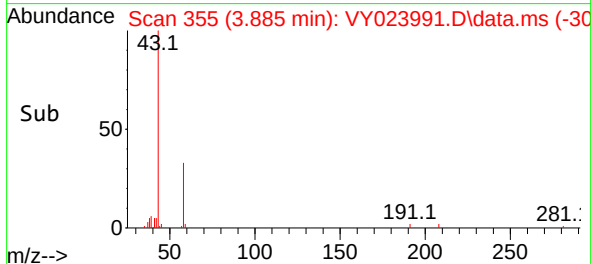
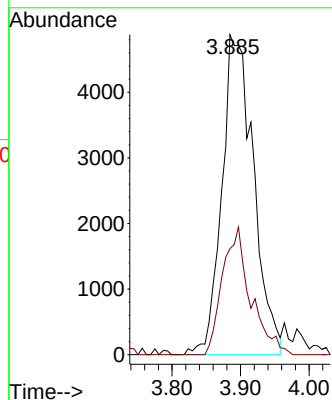
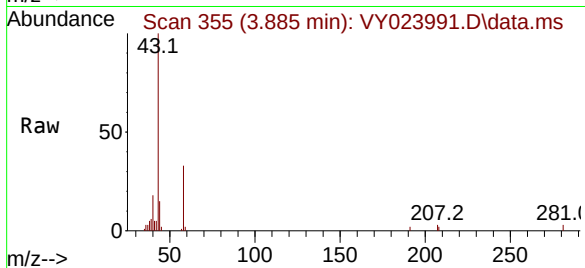
VIBLK

Tgt Ion: 43 Resp: 15627

Ion Ratio Lower Upper

43 100

58 33.2 27.7 41.5



#20

Methylene Chloride

Concen: 4.807 ug/l

RT: 4.628 min Scan# 477

Delta R.T. 0.000 min

Lab File: VY023991.D

Acq: 16 Dec 2025 15:39

Tgt Ion: 84 Resp: 34551

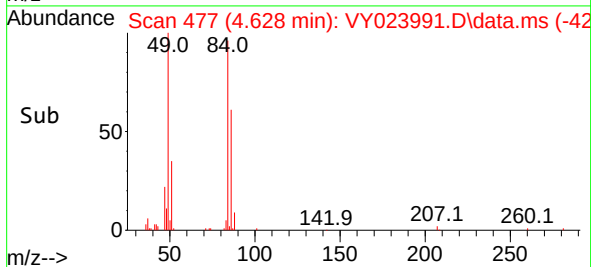
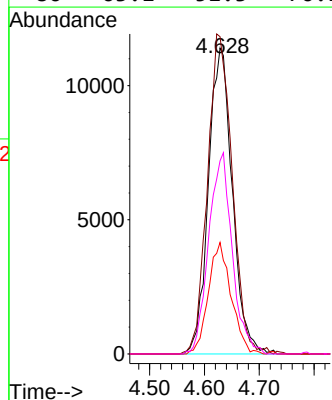
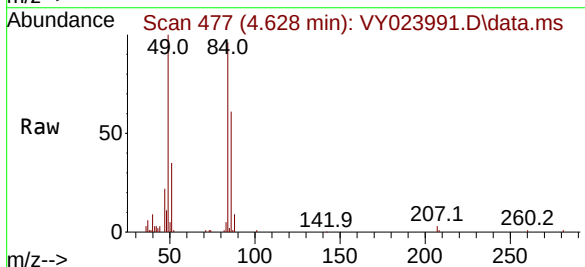
Ion Ratio Lower Upper

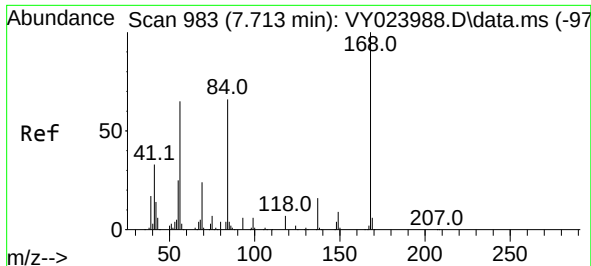
84 100

49 103.7 82.6 124.0

51 36.4 26.4 39.6

86 63.1 51.3 76.9

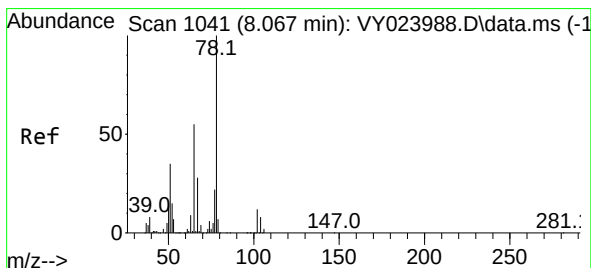
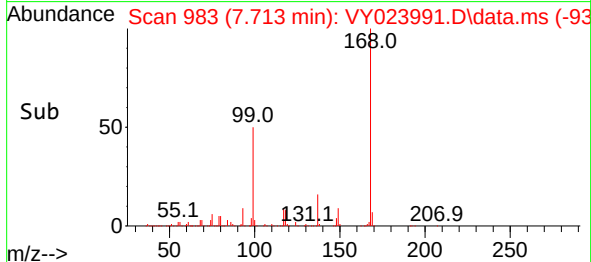
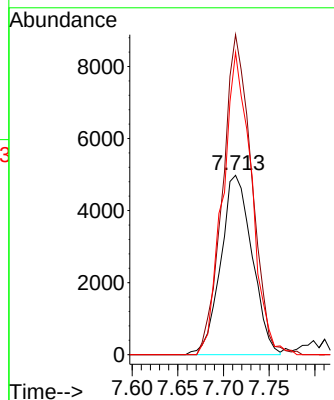
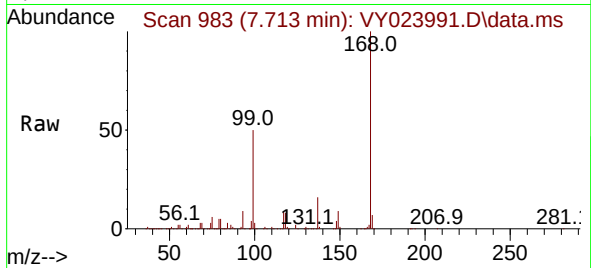




#31
Cyclohexane
Concen: 1.295 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

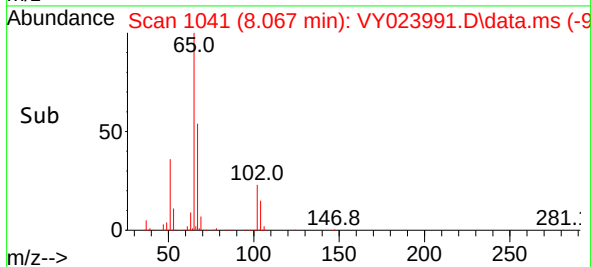
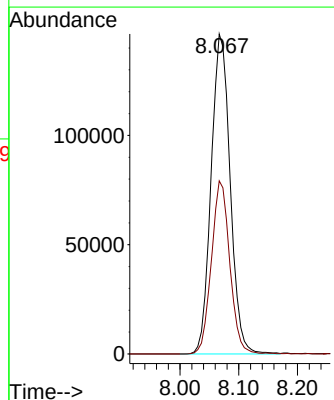
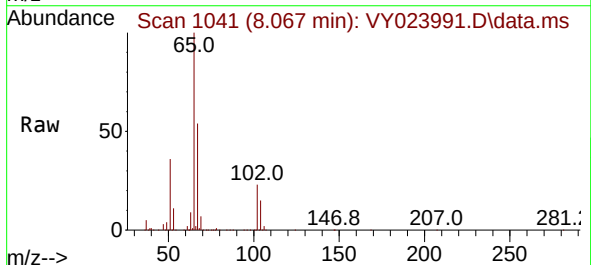
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

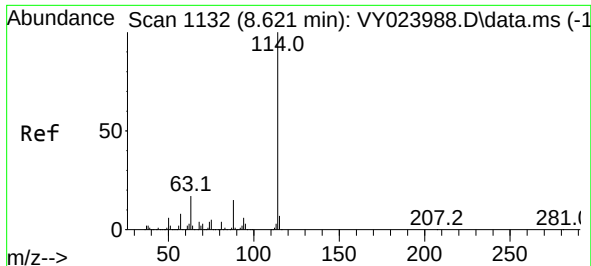
Tgt Ion: 56 Resp: 11857
Ion Ratio Lower Upper
56 100
69 178.4 30.0 45.0#
84 168.5 81.0 121.4#



#33
1,2-Dichloroethane-d4
Concen: 63.007 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

Tgt Ion: 65 Resp: 329550
Ion Ratio Lower Upper
65 100
67 52.2 0.0 105.6

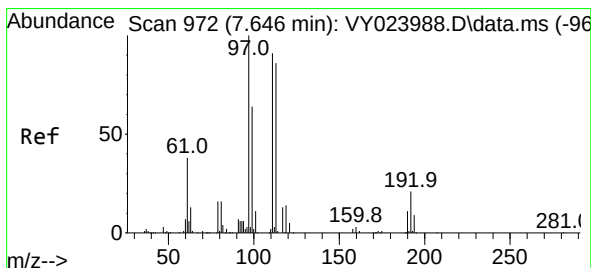
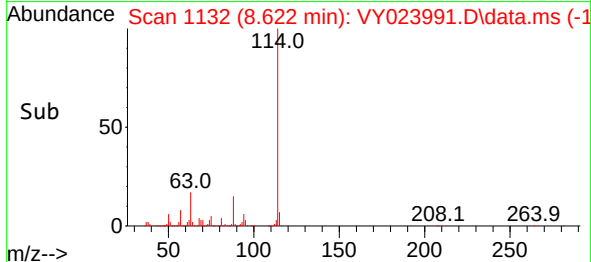
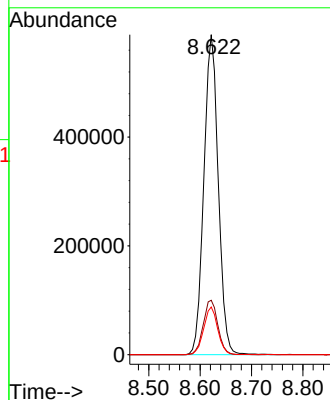
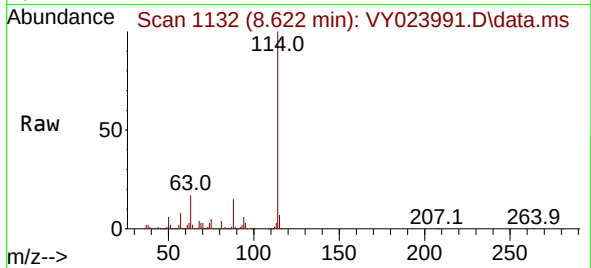




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

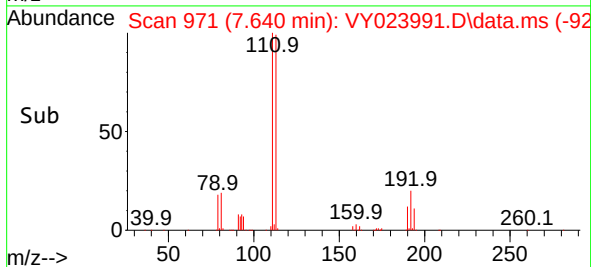
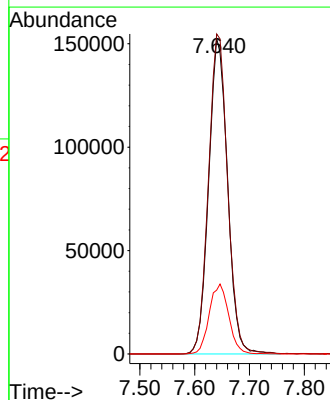
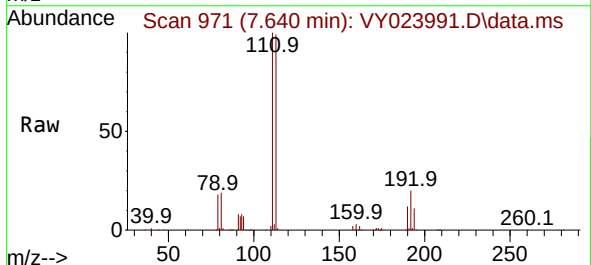
Instrument :
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ClientSampleId :
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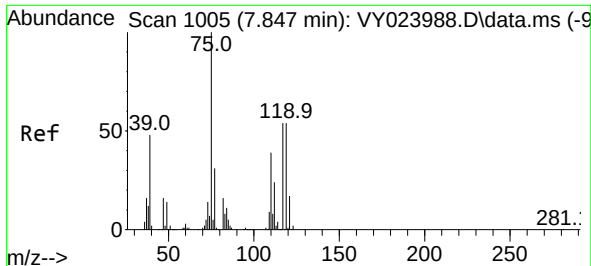
Tgt Ion:114 Resp: 1145187
Ion Ratio Lower Upper
114 100
63 17.0 0.0 34.6
88 14.9 0.0 29.2



#35
Dibromofluoromethane
Concen: 53.106 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.006 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

Tgt Ion:113 Resp: 363955
Ion Ratio Lower Upper
113 100
111 102.9 82.1 123.1
192 22.9 18.2 27.4

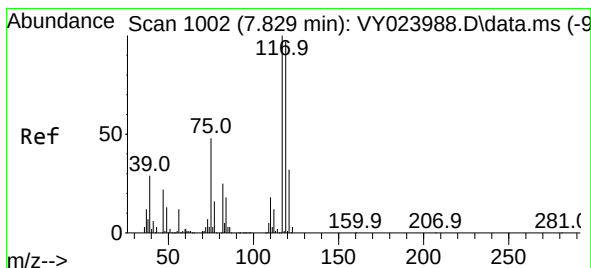
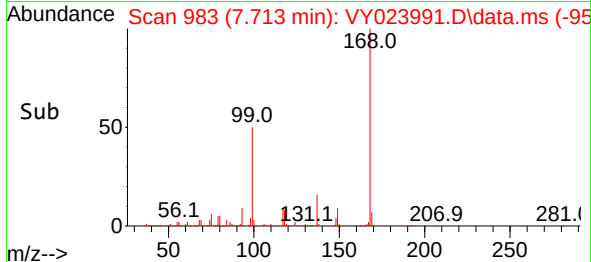
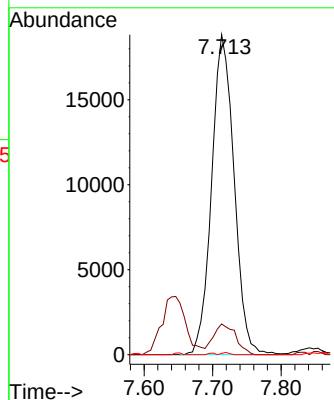
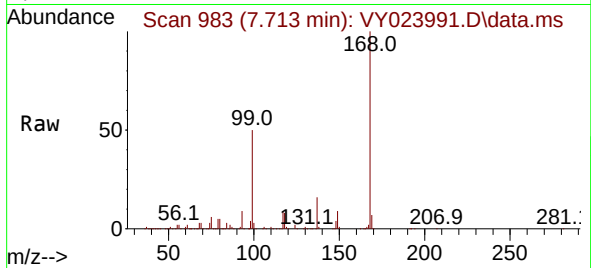




#36
1,1-Dichloropropene
Concen: 4.560 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

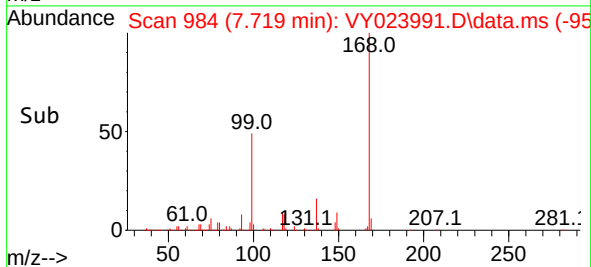
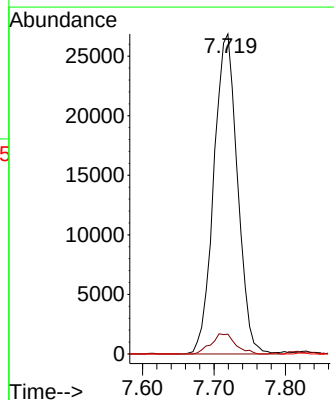
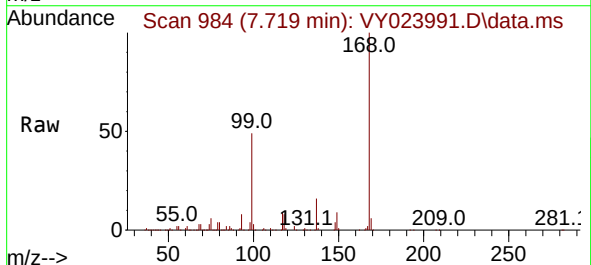
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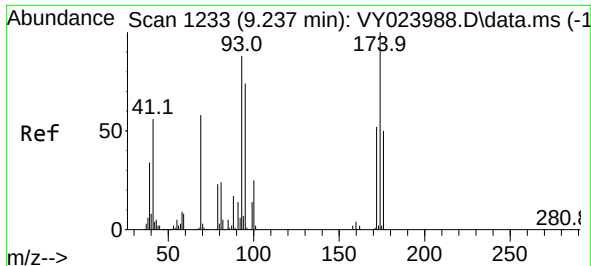
Tgt Ion: 75 Resp: 42836
Ion Ratio Lower Upper
75 100
110 9.5 19.6 58.8#
77 0.2 25.4 38.0#



#38
Carbon Tetrachloride
Concen: 5.244 ug/l
RT: 7.719 min Scan# 984
Delta R.T. -0.109 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

Tgt Ion: 117 Resp: 61698
Ion Ratio Lower Upper
117 100
119 6.2 77.7 116.5#
121 0.0 25.3 37.9#

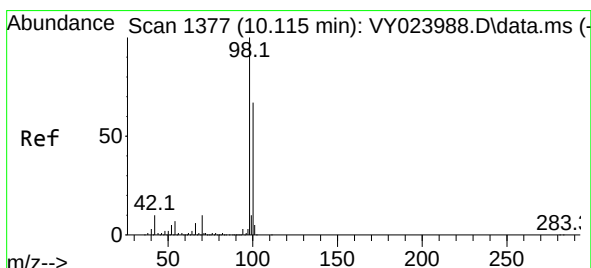
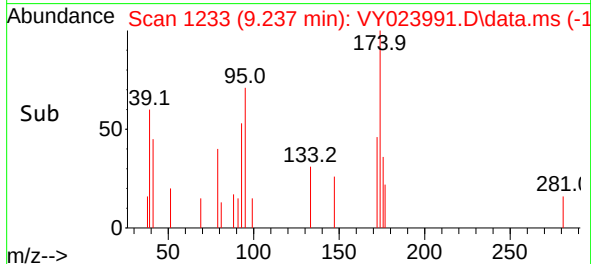
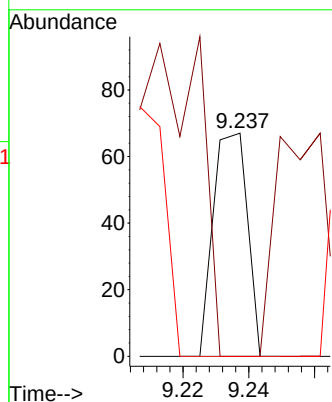
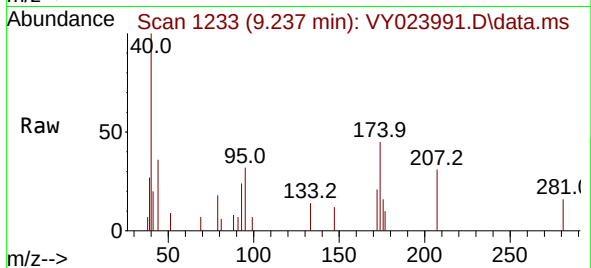




#49
1,4-Dioxane
Concen: 1.136 ug/l
RT: 9.237 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

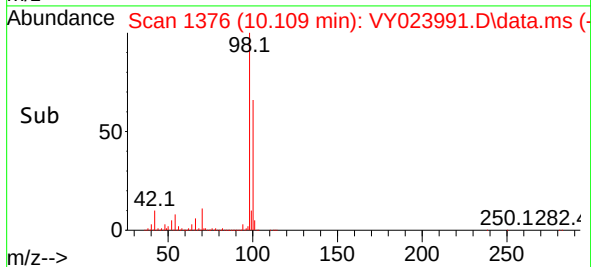
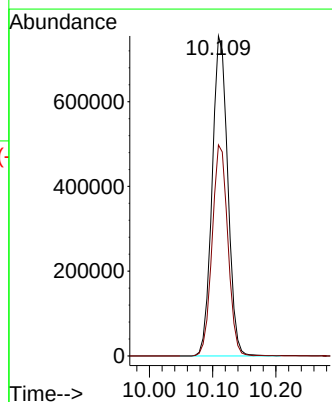
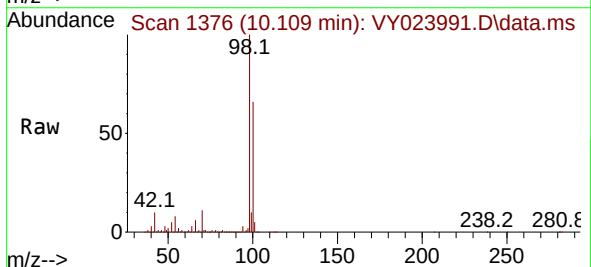
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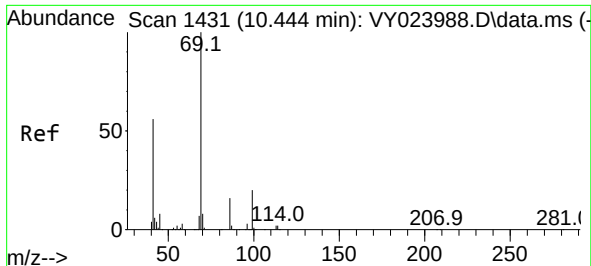
Tgt Ion: 88 Resp: 48
Ion Ratio Lower Upper
88 100
43 297.9 21.0 31.4#
58 0.0 48.9 73.3#



#50
Toluene-d8
Concen: 52.399 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

Tgt Ion: 98 Resp: 1295787
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.6

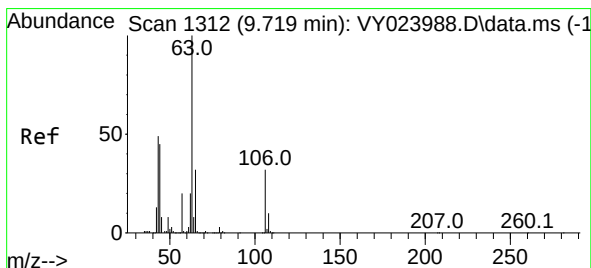
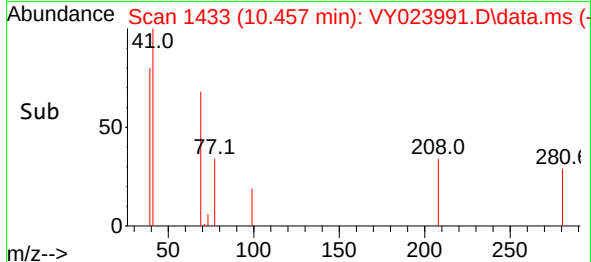
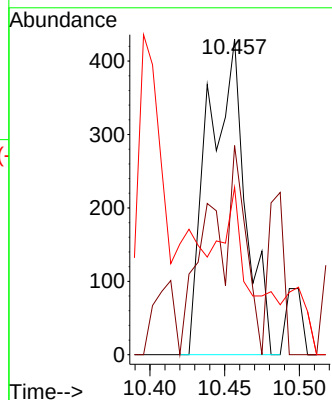
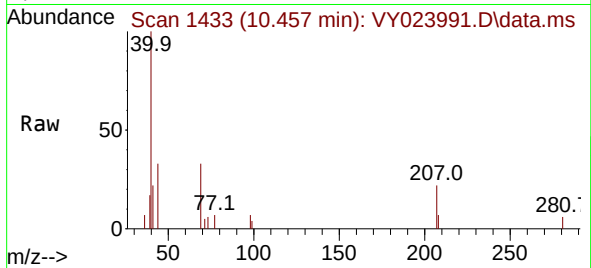




#56
Ethyl methacrylate
Concen: 5.317 ug/l
RT: 10.457 min Scan# 1433
Delta R.T. 0.013 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

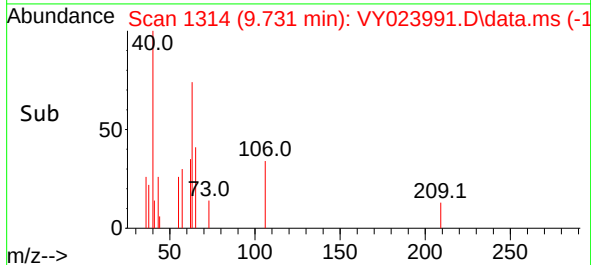
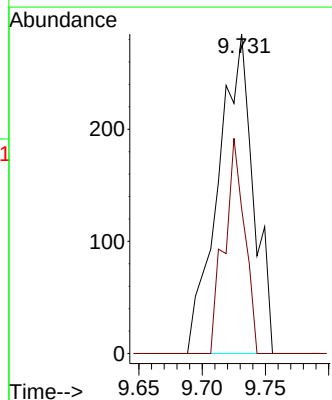
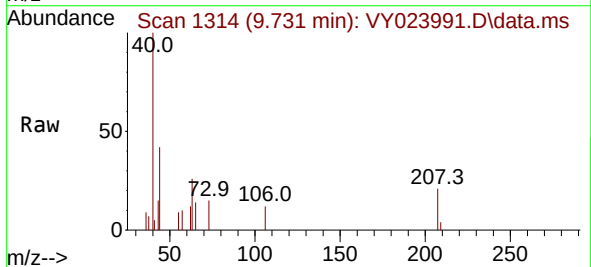
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

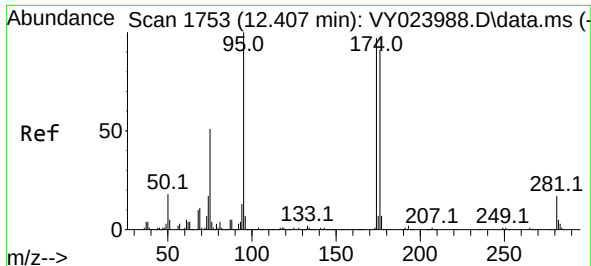
Tgt Ion: 69 Resp: 742
Ion Ratio Lower Upper
69 100
41 27.6 46.2 69.4#
39 22.0 28.1 42.1#



#58
2-Chloroethyl Vinyl ether
Concen: 4.999 ug/l
RT: 9.731 min Scan# 1314
Delta R.T. 0.012 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

Tgt Ion: 63 Resp: 551
Ion Ratio Lower Upper
63 100
106 38.7 25.8 38.8

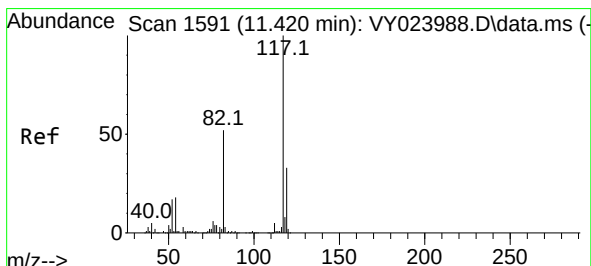
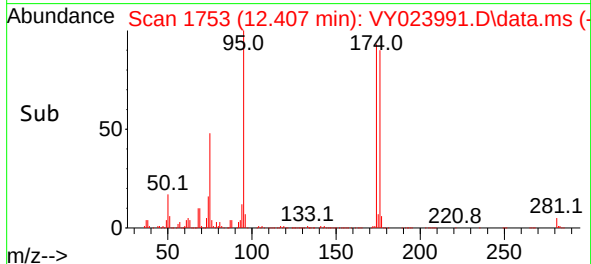
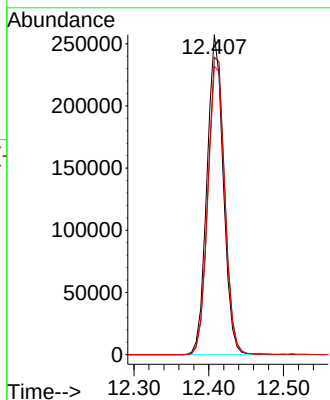
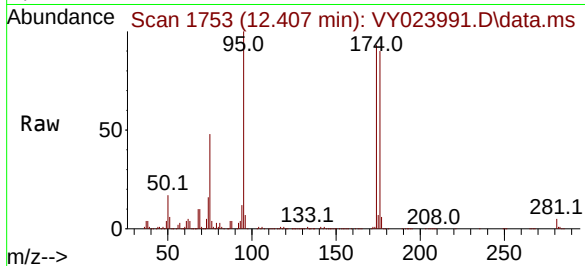




#62
4-Bromofluorobenzene
Concen: 48.247 ug/l
RT: 12.407 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

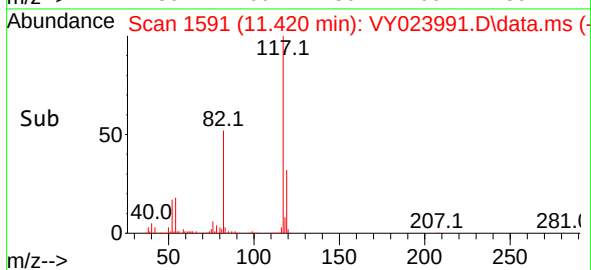
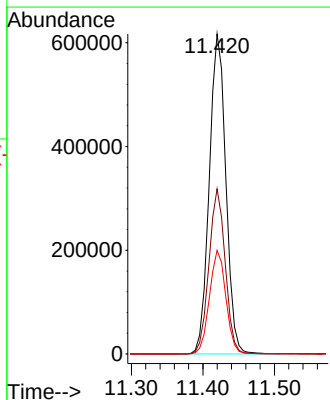
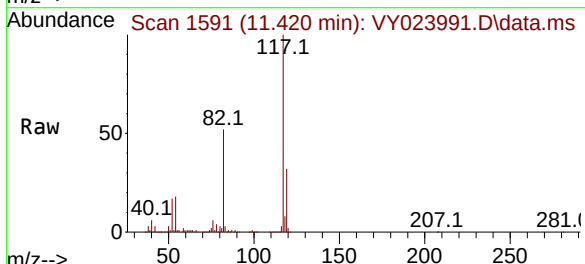
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

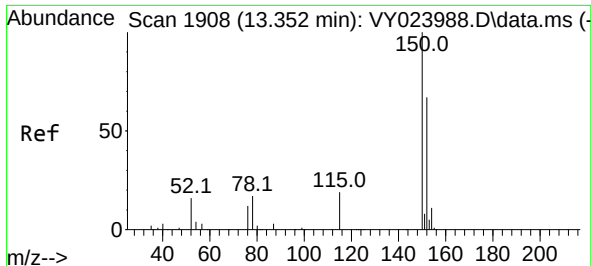
Tgt Ion: 95 Resp: 391054
Ion Ratio Lower Upper
95 100
174 97.4 0.0 196.6
176 93.8 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

Tgt Ion: 117 Resp: 992449
Ion Ratio Lower Upper
117 100
82 51.6 41.6 62.4
119 32.4 26.2 39.2

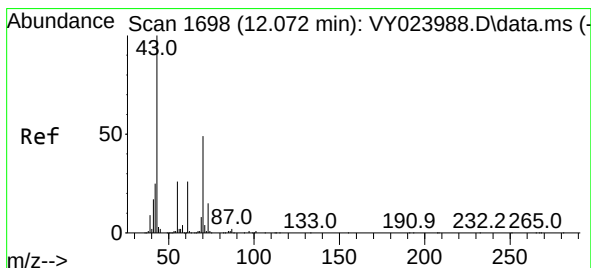
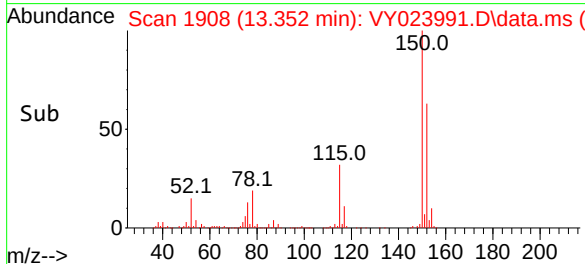
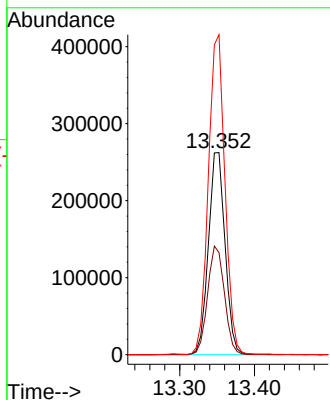
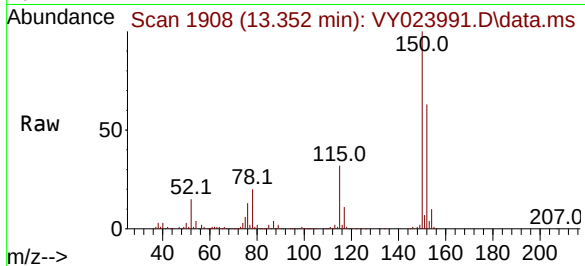




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

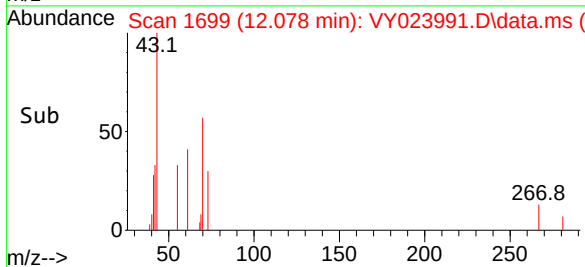
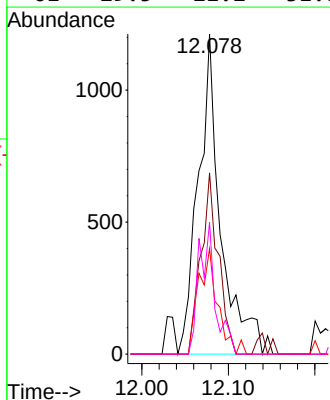
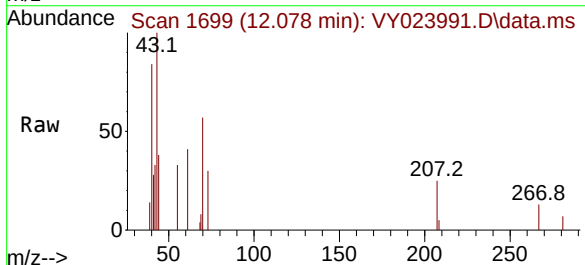
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

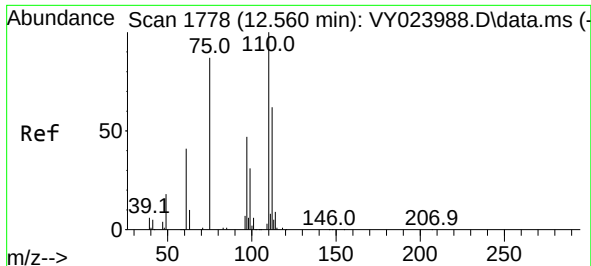
Tgt Ion:152 Resp: 406845
Ion Ratio Lower Upper
152 100
115 54.2 27.2 81.5
150 156.7 0.0 349.6



#74
N-ethyl acetate
Concen: 2.865 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

Tgt Ion: 43 Resp: 2202
Ion Ratio Lower Upper
43 100
70 43.5 39.3 58.9
55 27.8 22.5 33.7
61 29.5 21.2 31.8

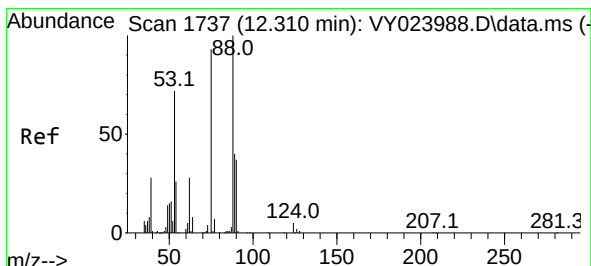
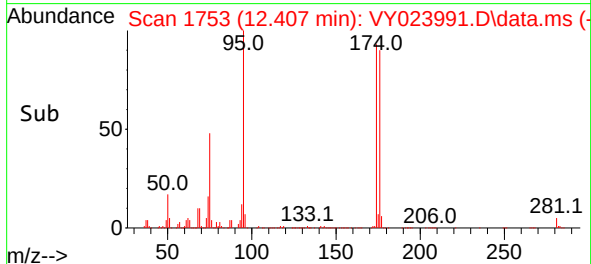
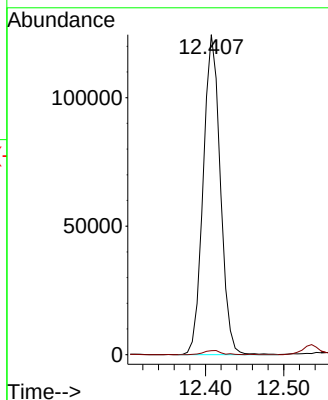
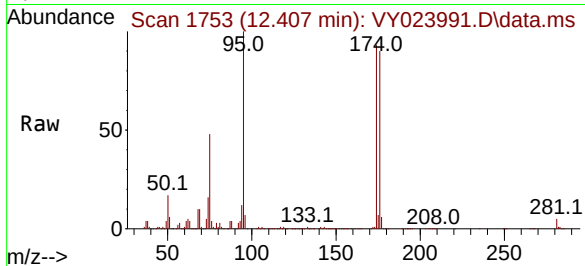




#76
1,2,3-Trichloropropane
Concen: 54.967 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

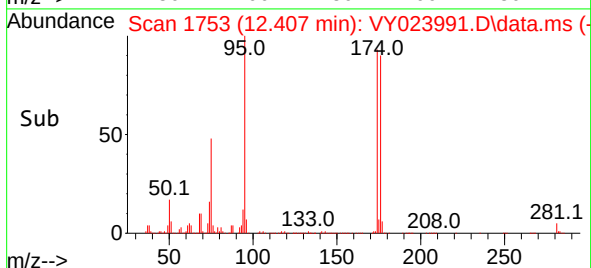
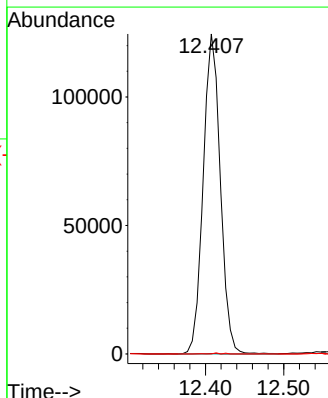
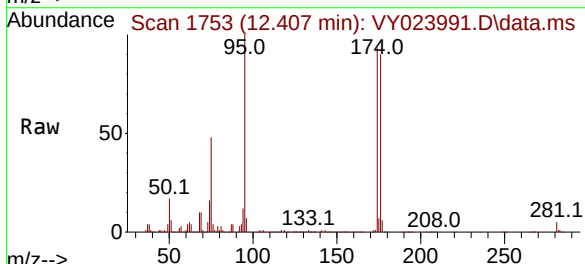
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

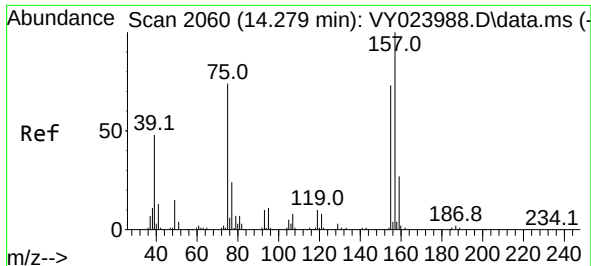
Tgt Ion: 75 Resp: 188832
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 134.157 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.098 min
Lab File: VY023991.D
Acq: 16 Dec 2025 15:39

Tgt Ion: 75 Resp: 188832
Ion Ratio Lower Upper
75 100
53 0.1 69.9 104.9#
89 0.1 38.6 57.8#

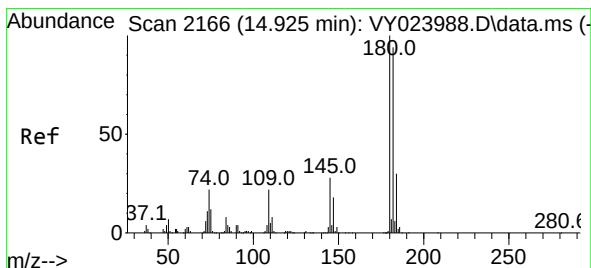
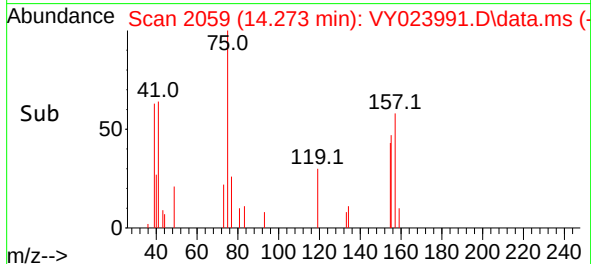
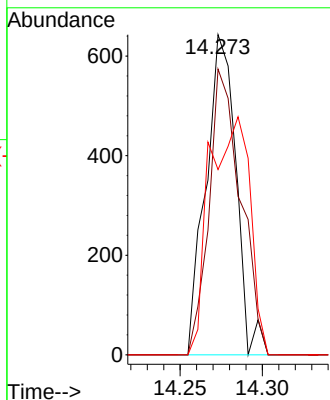
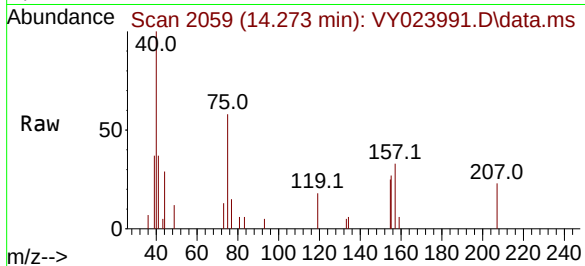




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.319 ug/l
 RT: 14.273 min Scan# 2059
 Delta R.T. -0.006 min
 Lab File: VY023991.D
 Acq: 16 Dec 2025 15:39

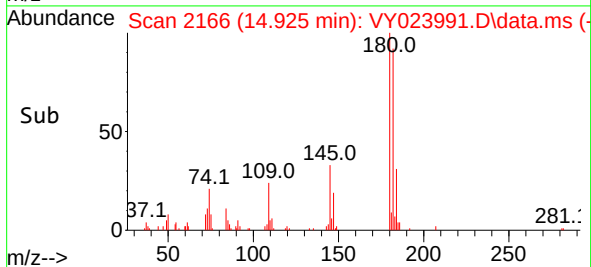
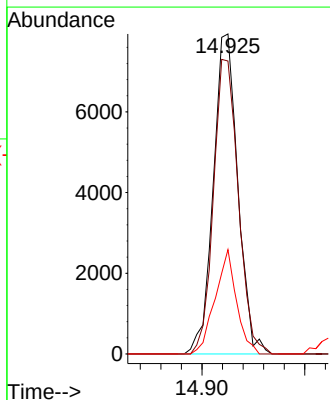
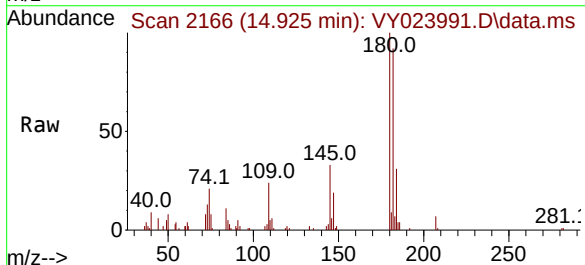
Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

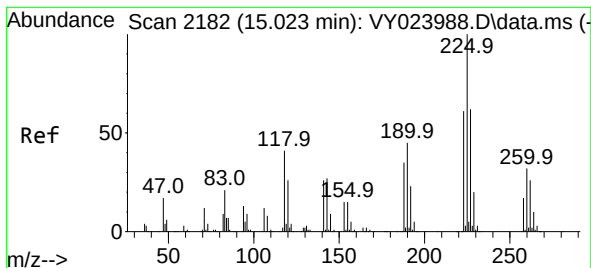
Tgt Ion: 75 Resp: 816
 Ion Ratio Lower Upper
 75 100
 155 94.0 49.3 147.8
 157 100.2 64.3 192.9



#93
 1,2,4-Trichlorobenzene
 Concen: 1.973 ug/l
 RT: 14.925 min Scan# 2166
 Delta R.T. 0.000 min
 Lab File: VY023991.D
 Acq: 16 Dec 2025 15:39

Tgt Ion: 180 Resp: 13124
 Ion Ratio Lower Upper
 180 100
 182 93.0 47.9 143.6
 145 28.5 14.4 43.4





#94

Hexachlorobutadiene

Concen: 1.226 ug/l

RT: 15.029 min Scan# 2182

Delta R.T. 0.006 min

Lab File: VY023991.D

Acq: 16 Dec 2025 15:39

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

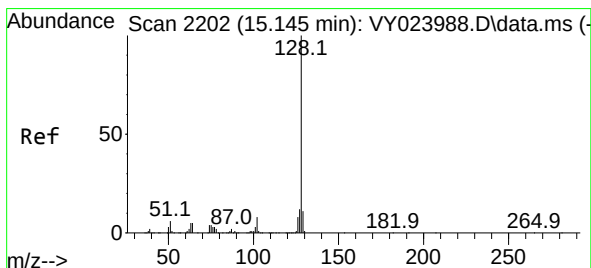
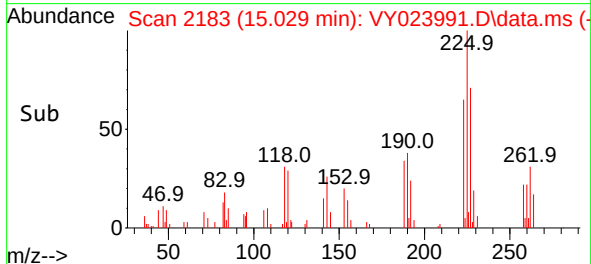
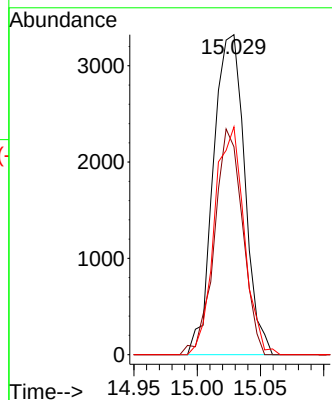
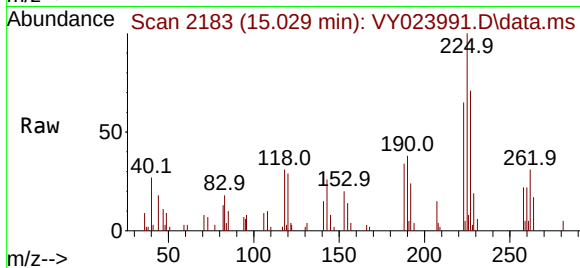
Tgt Ion:225 Resp: 5709

Ion Ratio Lower Upper

225 100

223 63.6 30.9 92.5

227 67.4 32.1 96.3



#95

Naphthalene

Concen: 4.117 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. -0.000 min

Lab File: VY023991.D

Acq: 16 Dec 2025 15:39

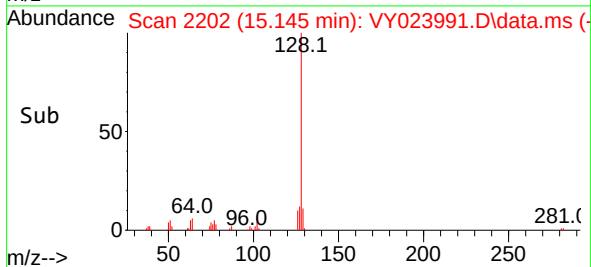
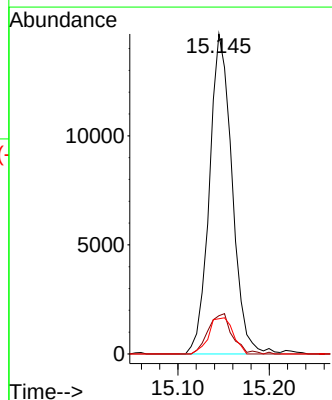
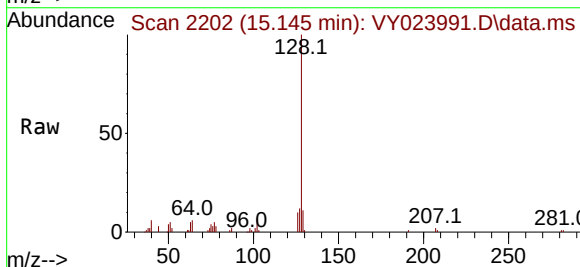
Tgt Ion:128 Resp: 25256

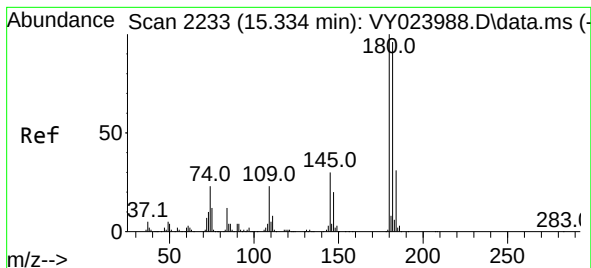
Ion Ratio Lower Upper

128 100

127 13.4 10.3 15.5

129 12.1 8.6 13.0





#96

1,2,3-Trichlorobenzene

Concen: 2.393 ug/l

RT: 15.328 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY023991.D

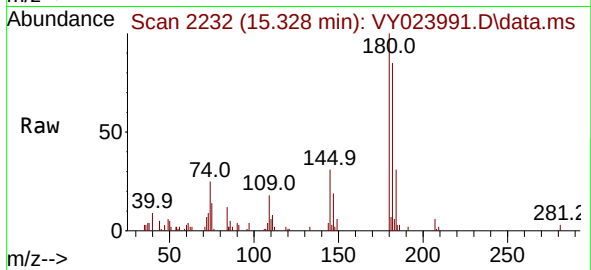
Acq: 16 Dec 2025 15:39

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK



Tgt Ion:180 Resp: 13354

Ion Ratio Lower Upper

180 100

182 92.0 47.7 143.1

145 32.3 15.6 46.7

