

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
 Data File : VX045464.D
 Acq On : 26 Mar 2025 12:56
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

Quant Time: Mar 27 01:37:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

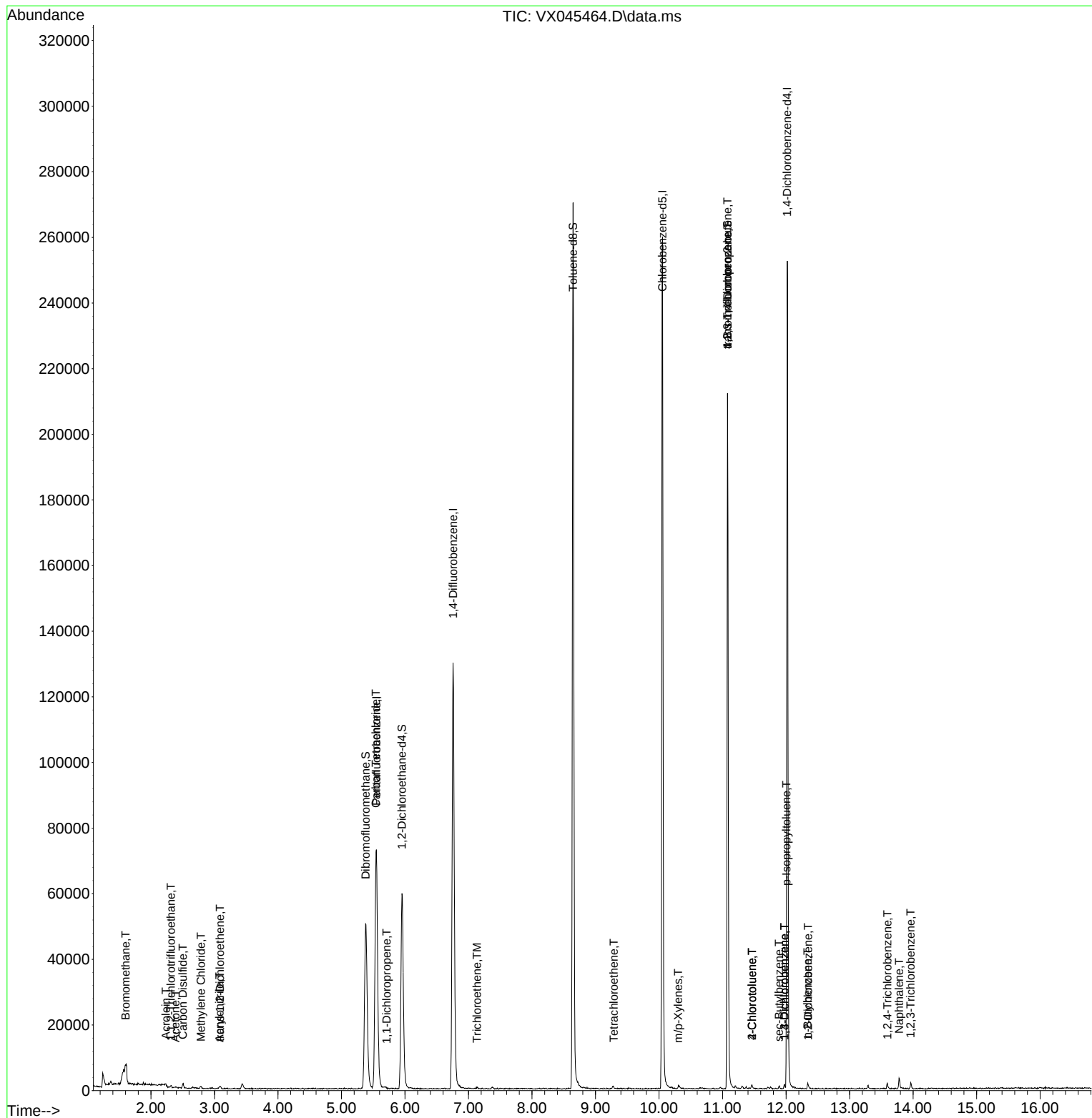
Internal Standards						
1) Pentafluorobenzene	5.549	168	63377	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.756	114	123437	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	112128	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	48112	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	58563	58.092	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 116.180%	
35) Dibromofluoromethane	5.379	113	43781	53.043	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.080%	
50) Toluene-d8	8.646	98	152557	50.983	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.960%	
62) 4-Bromofluorobenzene	11.079	95	54036	54.495	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 109.000%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	230	0.604	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.312	101	208	0.282	ug/l #	61
13) Acrolein	2.233	56	141	0.639	ug/l #	1
15) Acrylonitrile	3.080	53	216	0.422	ug/l #	63
16) Acetone	2.385	43	472	1.009	ug/l #	44
17) Carbon Disulfide	2.501	76	1744	0.841	ug/l #	77
20) Methylene Chloride	2.788	84	309	0.334	ug/l #	71
21) trans-1,2-Dichloroethene	3.086	96	248	0.322	ug/l #	77
36) 1,1-Dichloropropene	5.708	75	276	0.244	ug/l #	42
38) Carbon Tetrachloride	5.543	117	7490	6.518	ug/l #	19
44) Trichloroethene	7.134	130	182	0.217	ug/l	98
64) Tetrachloroethene	9.287	164	199	0.277	ug/l #	33
68) m/p-Xylenes	10.299	106	390	0.258	ug/l	93
76) 1,2,3-Trichloropropane	11.079	75	31375	28.018	ug/l #	36
79) 2-Chlorotoluene	11.463	91	837	0.310	ug/l	80
81) trans-1,4-Dichloro-2-b...	11.079	75	31375	95.883	ug/l #	6
82) 4-Chlorotoluene	11.463	91	837	0.284	ug/l	87
85) sec-Butylbenzene	11.890	105	807	0.216	ug/l	86
86) p-Isopropyltoluene	12.006	119	635	0.210	ug/l #	65
87) 1,3-Dichlorobenzene	11.975	146	450	0.285	ug/l	89
88) 1,4-Dichlorobenzene	11.975	146	450	0.281	ug/l	87
89) n-Butylbenzene	12.341	91	730	0.281	ug/l	91
91) 1,2-Dichlorobenzene	12.347	146	346	0.218	ug/l	83
93) 1,2,4-Trichlorobenzene	13.597	180	545	0.604	ug/l	94
95) Naphthalene	13.780	128	2750	0.793	ug/l	98
96) 1,2,3-Trichlorobenzene	13.963	180	613	0.644	ug/l	93

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

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IBLK

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QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

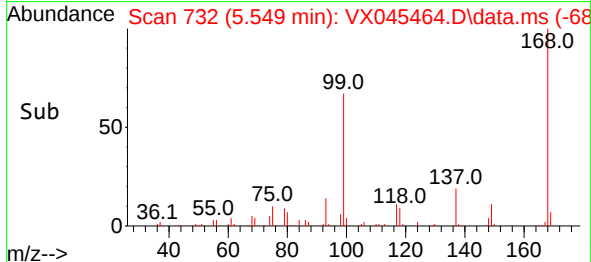
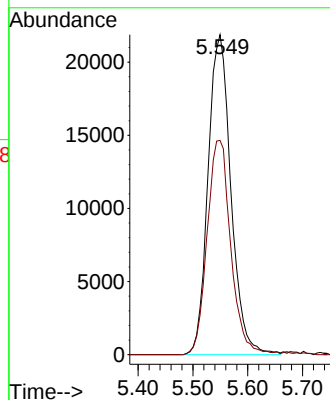
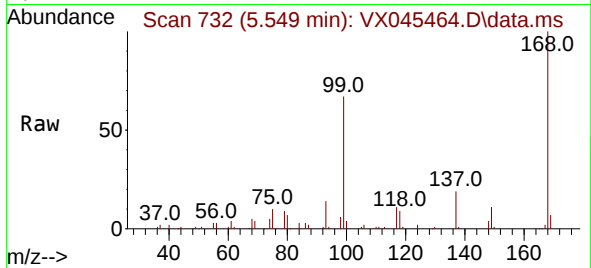




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

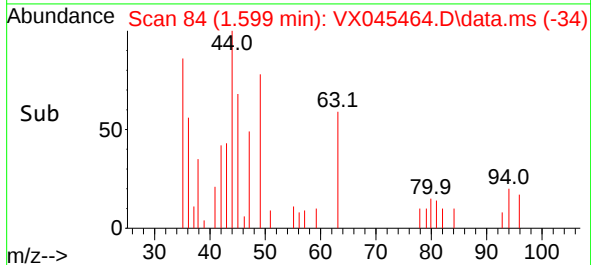
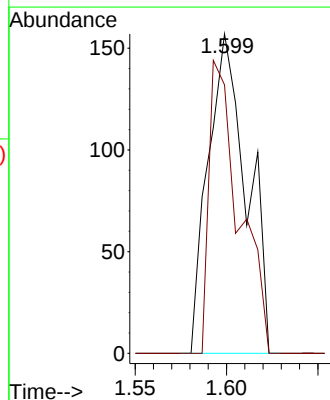
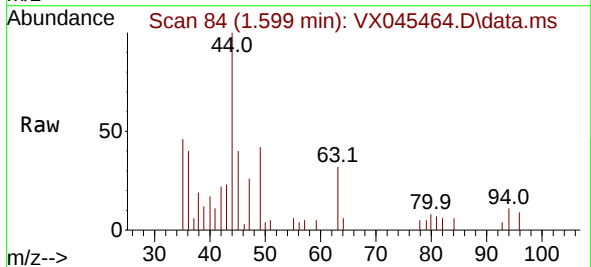
Instrument :
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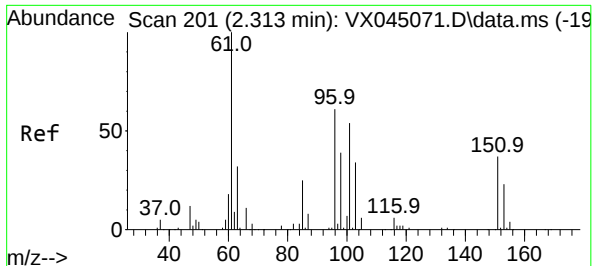
Tgt Ion:168 Resp: 63377
Ion Ratio Lower Upper
168 100
99 67.0 48.2 72.4



#5
Bromomethane
Concen: 0.604 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion: 94 Resp: 230
Ion Ratio Lower Upper
94 100
96 84.1 75.0 112.4

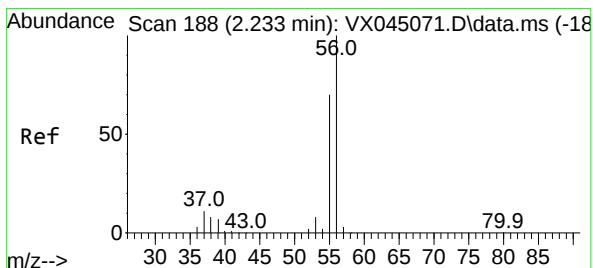
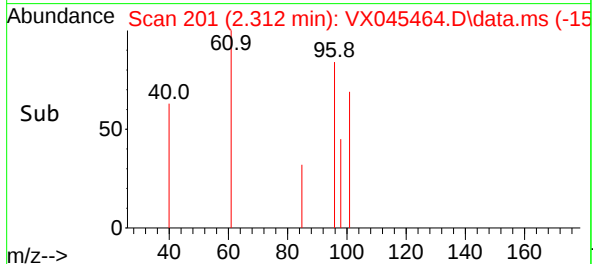
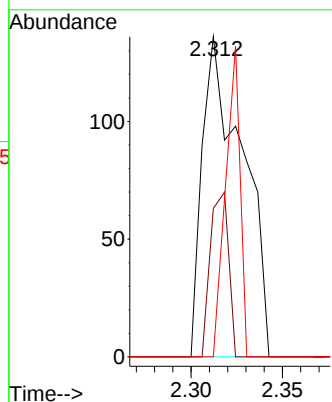
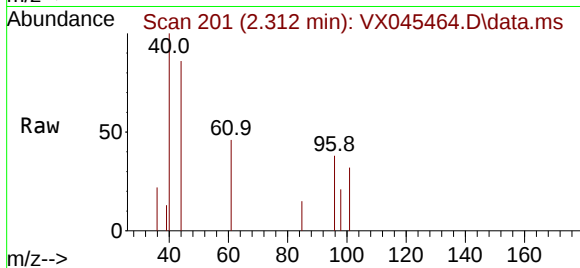




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.282 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

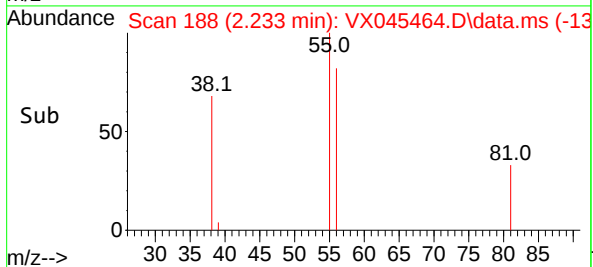
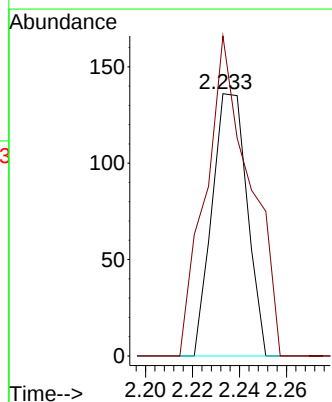
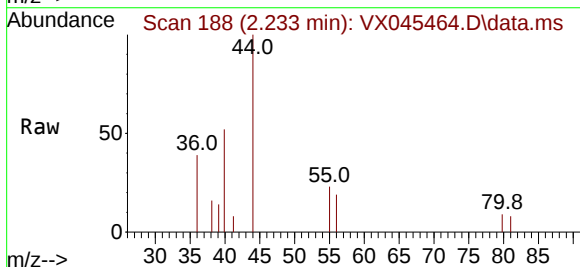
Instrument :
MSVOA_X
ClientSampleId :
IBLK

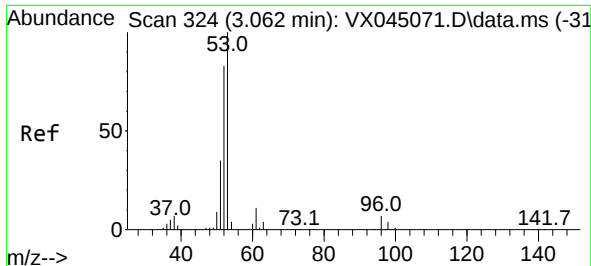
Tgt Ion:101 Resp: 208
Ion Ratio Lower Upper
101 100
85 23.6 36.2 54.4#
151 35.1 56.4 84.6#



#13
Acrolein
Concen: 0.639 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.000 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion: 56 Resp: 141
Ion Ratio Lower Upper
56 100
55 153.2 56.2 84.4#





#15

Acrylonitrile

Concen: 0.422 ug/l

RT: 3.080 min Scan# 31

Delta R.T. 0.018 min

Lab File: VX045464.D

Acq: 26 Mar 2025 12:56

Instrument :

MSVOA_X

ClientSampleId :

IBLK

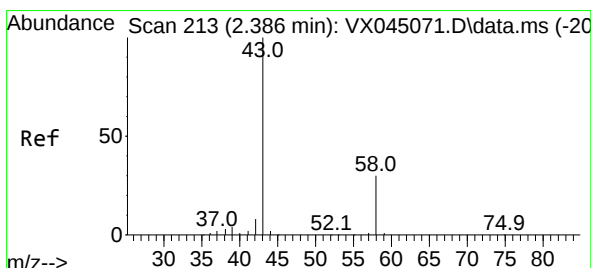
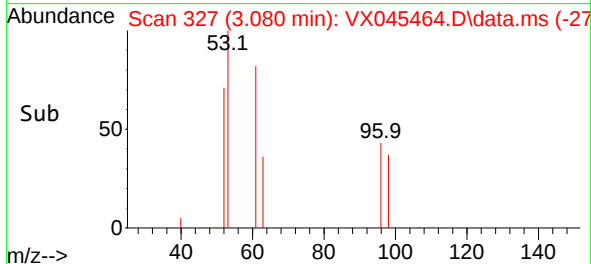
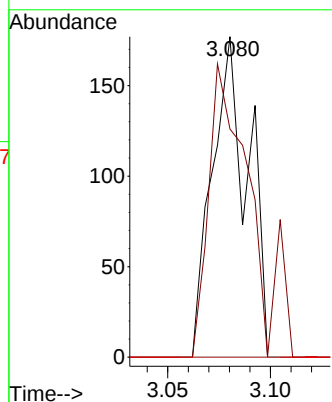
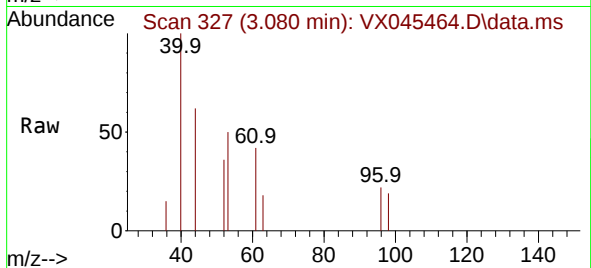
Tgt Ion: 53 Resp: 216

Ion Ratio Lower Upper

53 100

52 106.5 66.2 99.2#

51 0.0 29.0 43.4#



#16

Acetone

Concen: 1.009 ug/l

RT: 2.385 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX045464.D

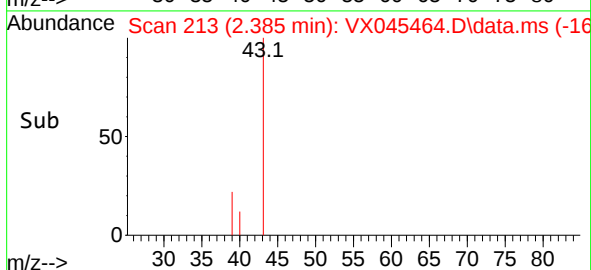
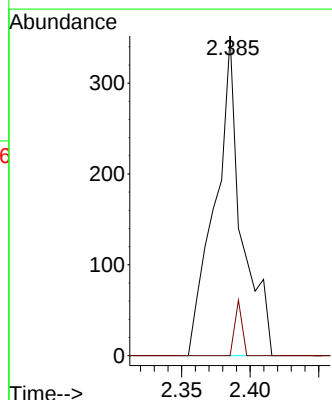
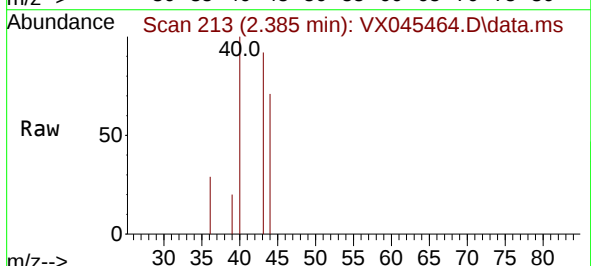
Acq: 26 Mar 2025 12:56

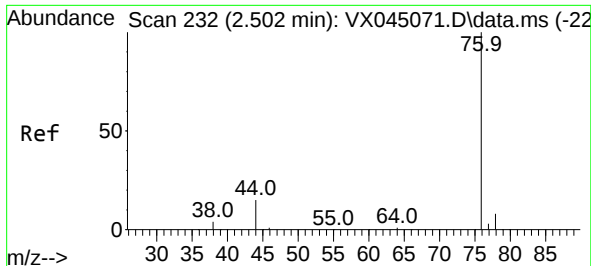
Tgt Ion: 43 Resp: 472

Ion Ratio Lower Upper

43 100

58 0.0 24.2 36.4#





#17

Carbon Disulfide

Concen: 0.841 ug/l

RT: 2.501 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX045464.D

Acq: 26 Mar 2025 12:56

Instrument :

MSVOA_X

ClientSampleId :

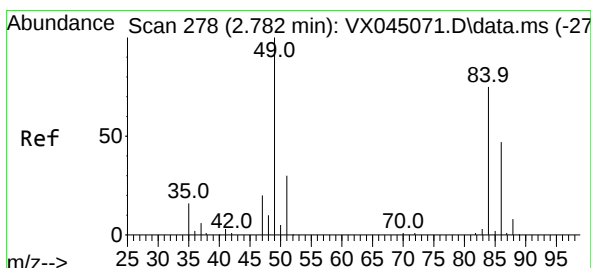
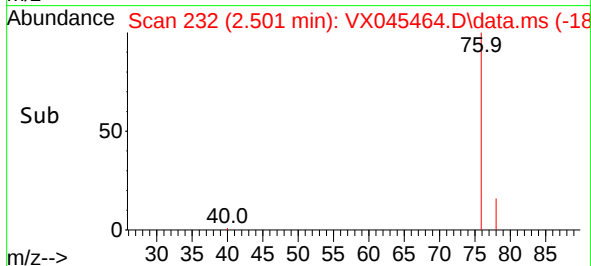
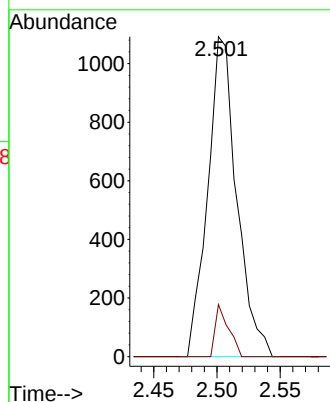
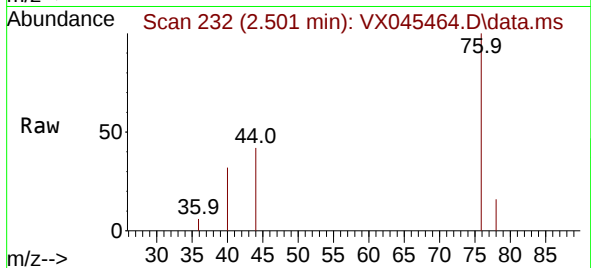
IBLK

Tgt Ion: 76 Resp: 1744

Ion Ratio Lower Upper

76 100

78 16.3 6.6 9.8#



#20

Methylene Chloride

Concen: 0.334 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX045464.D

Acq: 26 Mar 2025 12:56

Tgt Ion: 84 Resp: 309

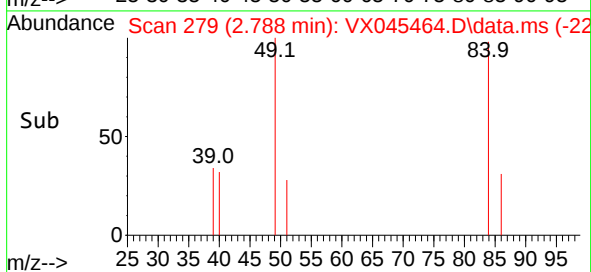
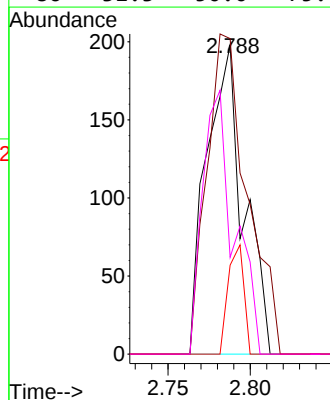
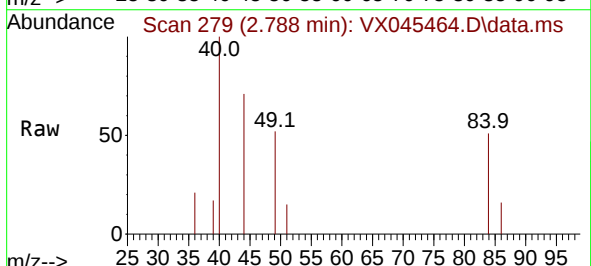
Ion Ratio Lower Upper

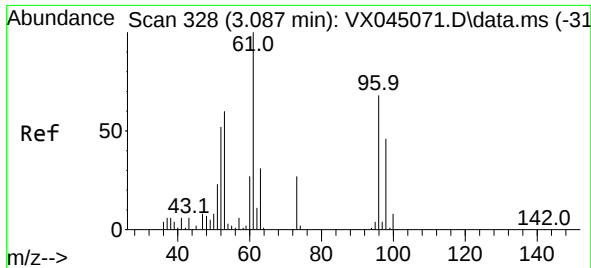
84 100

49 102.0 106.5 159.7#

51 28.8 32.1 48.1#

86 31.3 50.0 75.0#

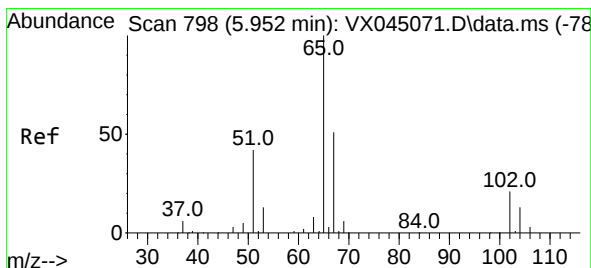
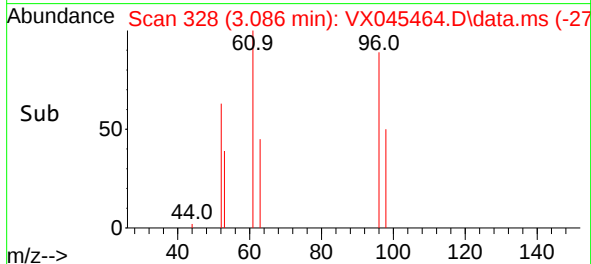
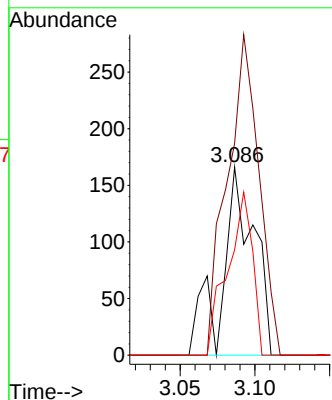
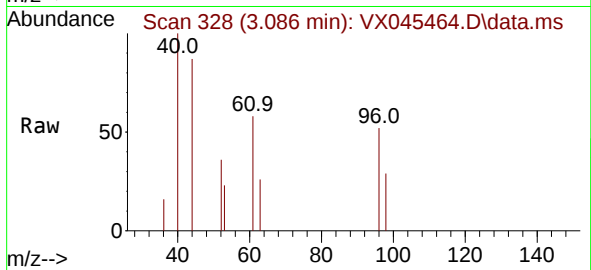




#21
trans-1,2-Dichloroethene
Concen: 0.322 ug/l
RT: 3.086 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

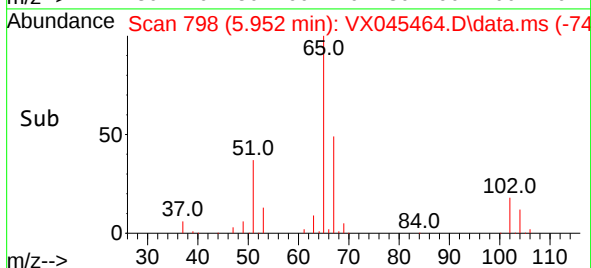
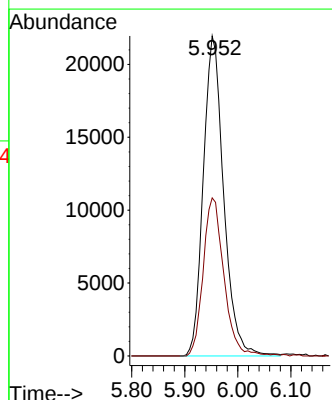
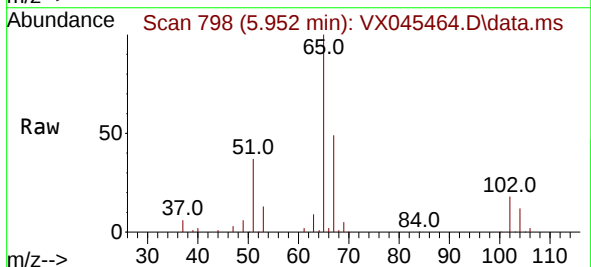
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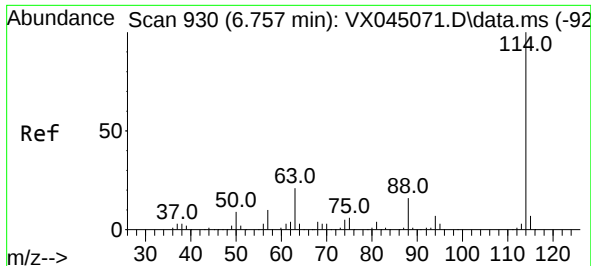
Tgt Ion: 96 Resp: 248
Ion Ratio Lower Upper
96 100
61 112.7 117.0 175.4#
98 56.0 53.4 80.2



#33
1,2-Dichloroethane-d4
Concen: 58.092 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion: 65 Resp: 58563
Ion Ratio Lower Upper
65 100
67 50.2 0.0 106.2

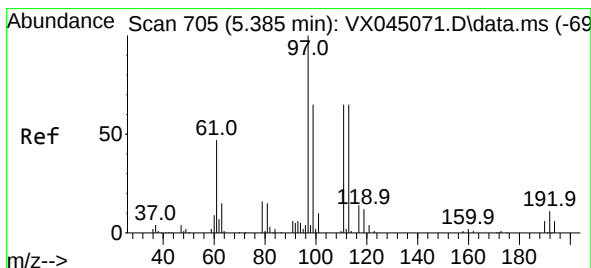
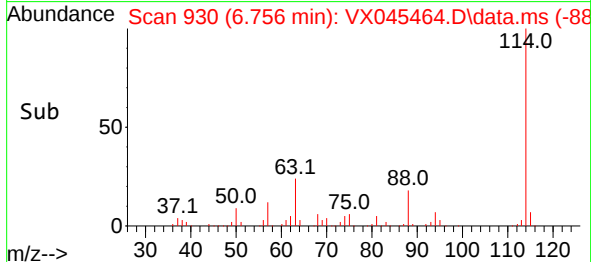
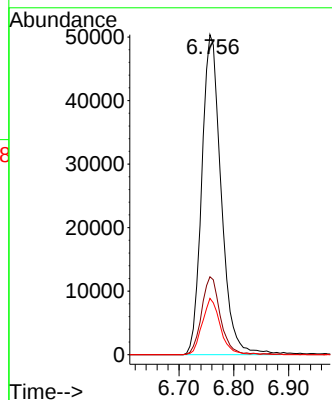
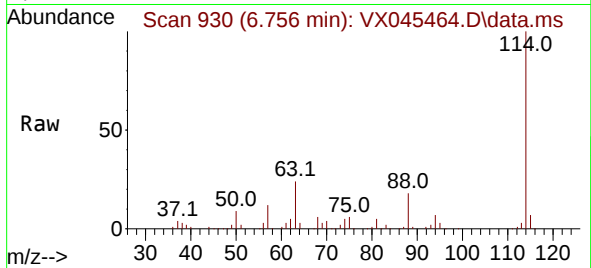




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.756 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

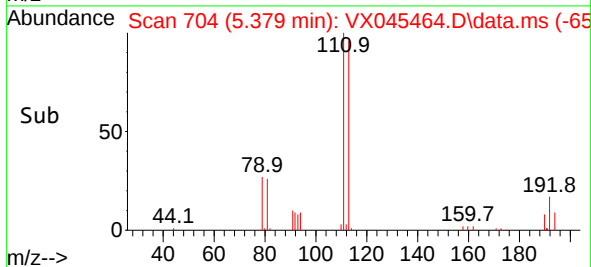
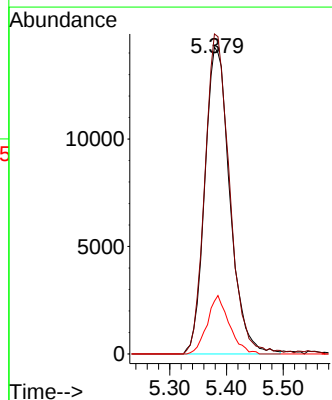
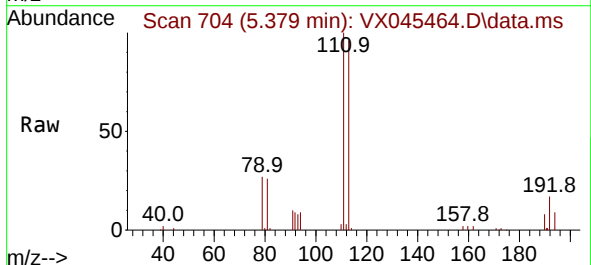
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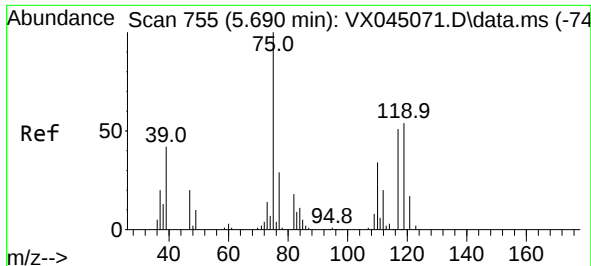
Tgt Ion:114 Resp: 123437
Ion Ratio Lower Upper
114 100
63 24.3 0.0 41.8
88 17.6 0.0 32.8



#35
Dibromofluoromethane
Concen: 53.043 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.007 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion:113 Resp: 43781
Ion Ratio Lower Upper
113 100
111 102.9 81.8 122.6
192 16.7 14.3 21.5

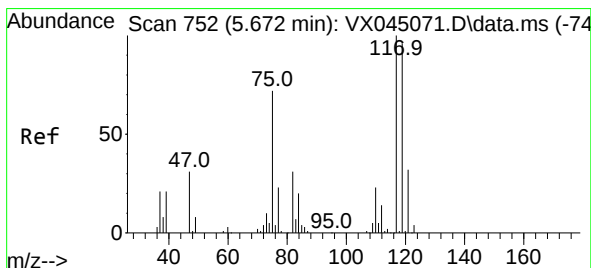
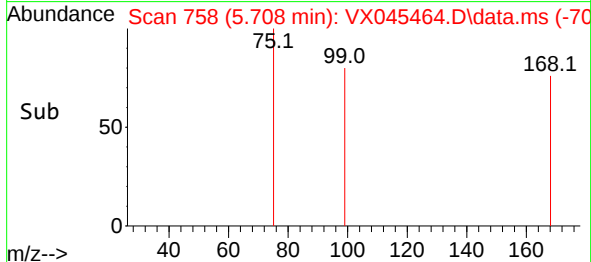
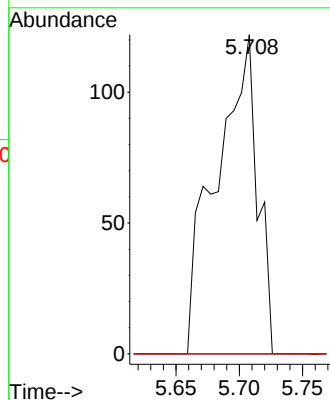
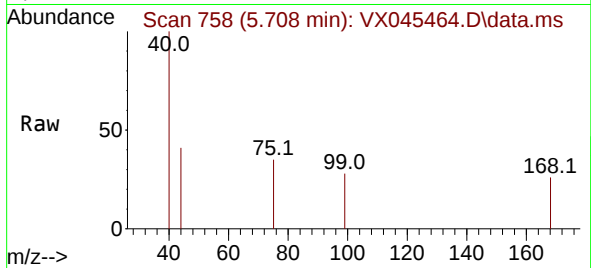




#36
1,1-Dichloropropene
Concen: 0.244 ug/l
RT: 5.708 min Scan# 711
Delta R.T. 0.018 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

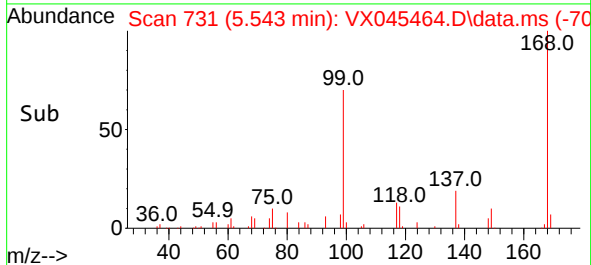
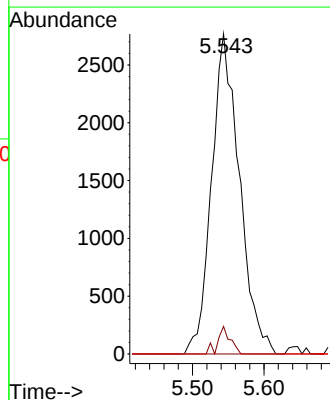
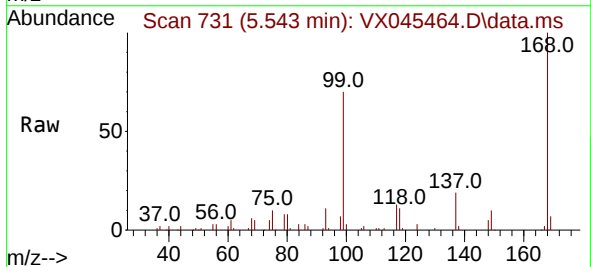
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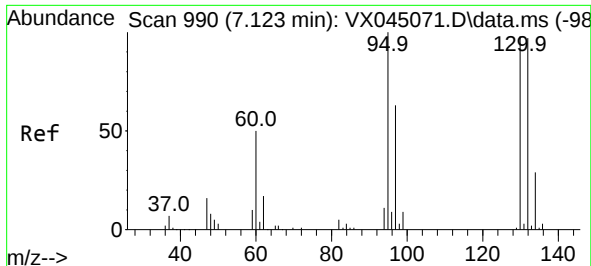
Tgt Ion: 75 Resp: 276
Ion Ratio Lower Upper
75 100
110 0.0 16.9 50.6#
77 0.0 24.5 36.7#



#38
Carbon Tetrachloride
Concen: 6.518 ug/l
RT: 5.543 min Scan# 731
Delta R.T. -0.128 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion: 117 Resp: 7490
Ion Ratio Lower Upper
117 100
119 8.6 76.7 115.1#
121 0.0 25.5 38.3#

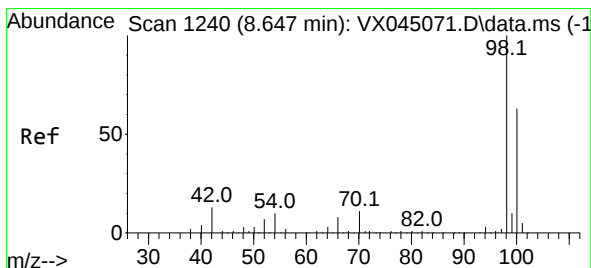
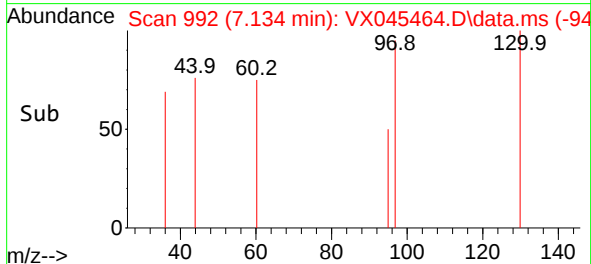
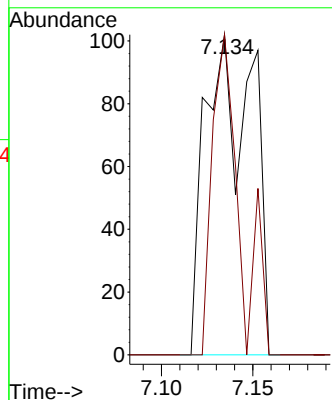
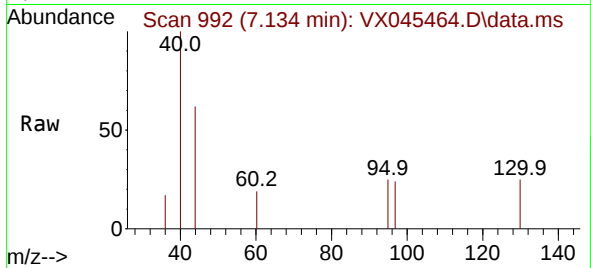




#44
Trichloroethene
Concen: 0.217 ug/l
RT: 7.134 min Scan# 990
Delta R.T. 0.012 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

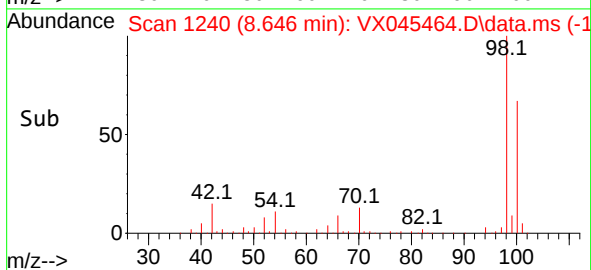
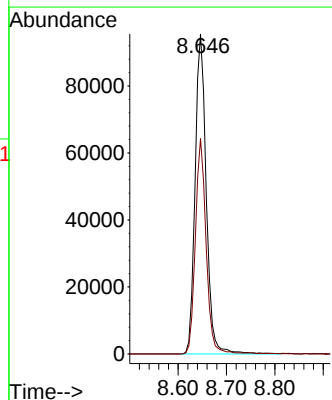
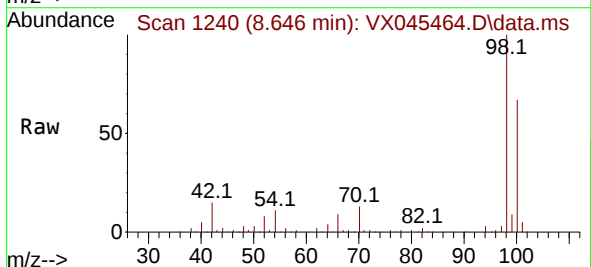
Instrument :
MSVOA_X
ClientSampleId :
IBLK

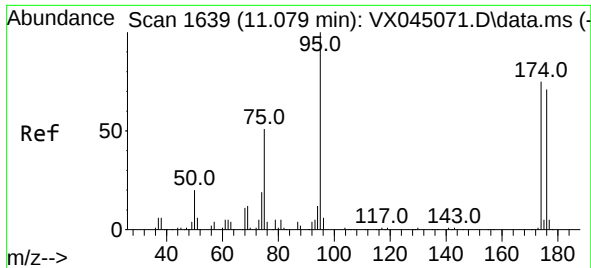
Tgt Ion:130 Resp: 182
Ion Ratio Lower Upper
130 100
95 100.0 0.0 205.0



#50
Toluene-d8
Concen: 50.983 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion: 98 Resp: 152557
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0

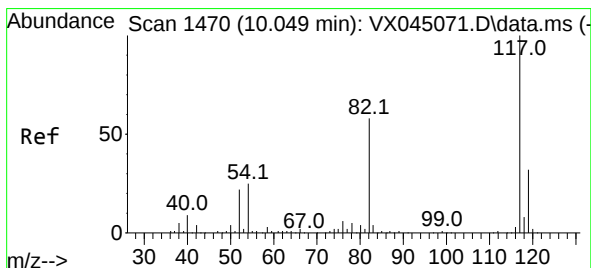
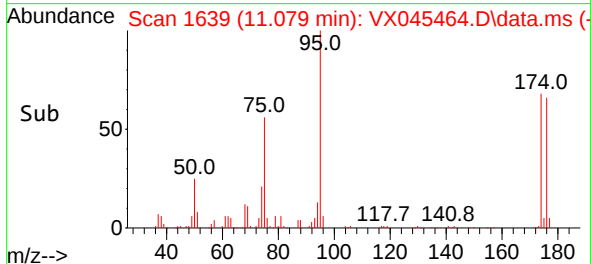
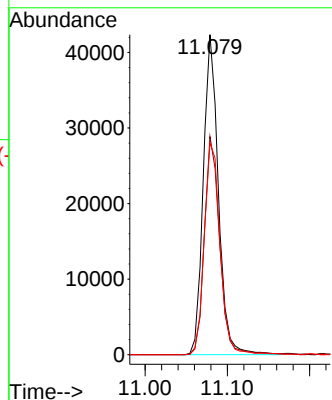
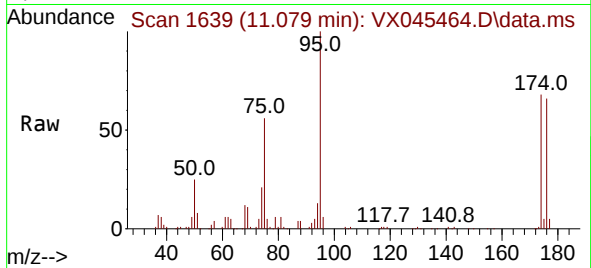




#62
4-Bromofluorobenzene
Concen: 54.495 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

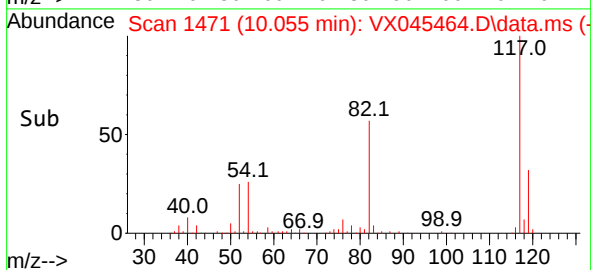
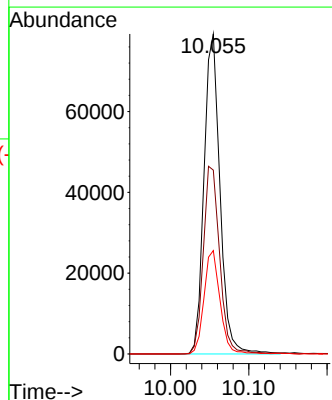
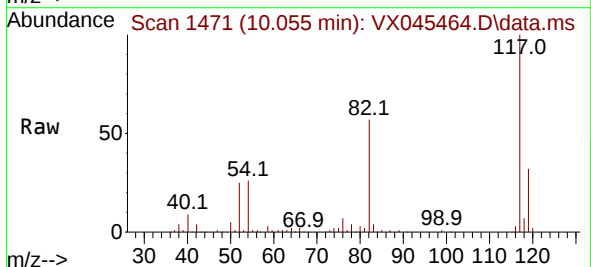
Instrument :
MSVOA_X
ClientSampleId :
IBLK

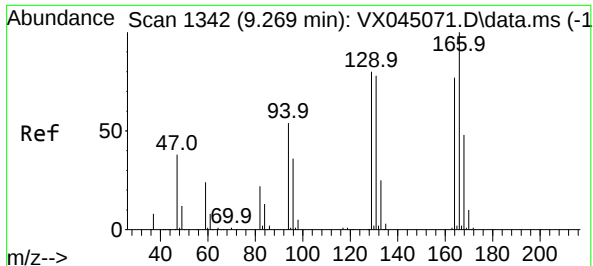
Tgt Ion: 95 Resp: 54036
Ion Ratio Lower Upper
95 100
174 69.3 0.0 148.2
176 69.4 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion: 117 Resp: 112128
Ion Ratio Lower Upper
117 100
82 57.4 46.3 69.5
119 32.3 25.7 38.5

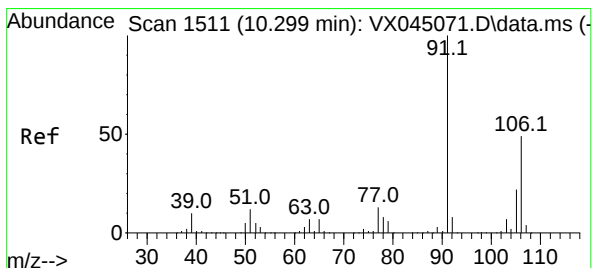
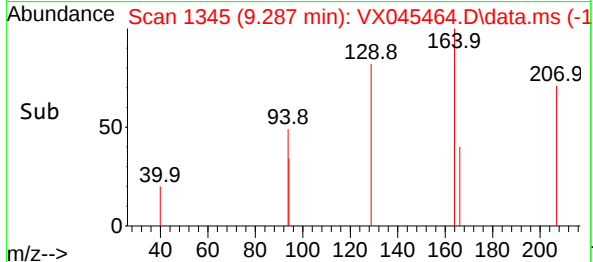
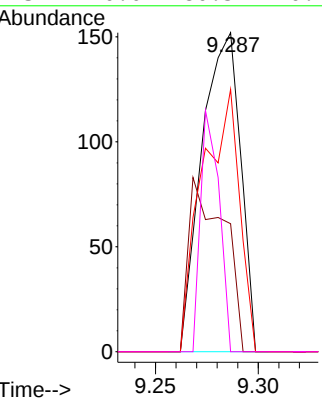
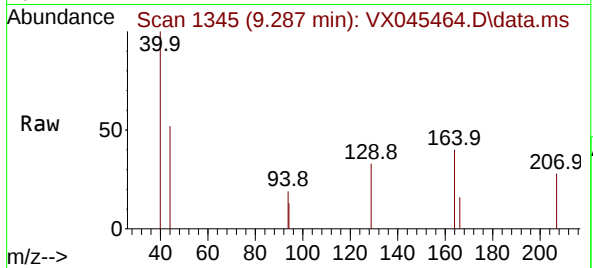




#64
Tetrachloroethene
Concen: 0.277 ug/l
RT: 9.287 min Scan# 11
Delta R.T. 0.018 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

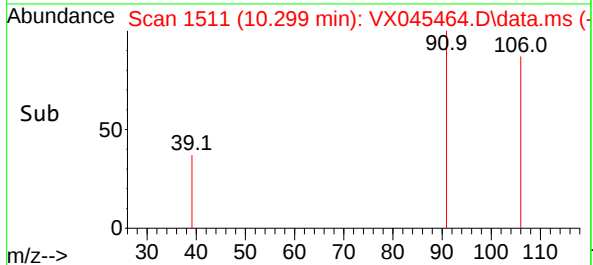
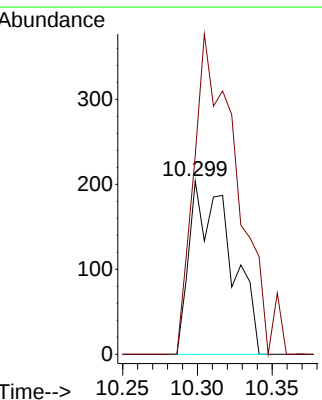
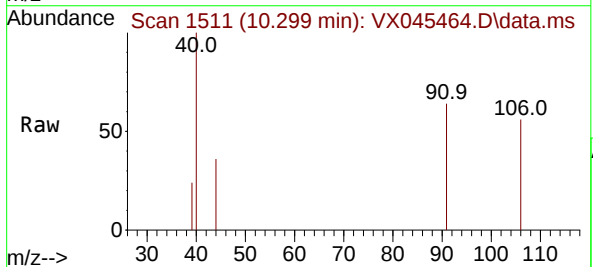
Instrument :
MSVOA_X
ClientSampleId :
IBLK

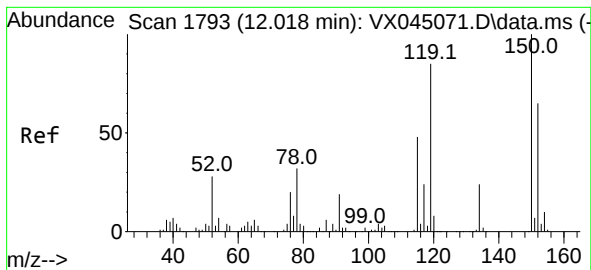
Tgt Ion:164 Resp: 199
Ion Ratio Lower Upper
164 100
166 40.1 103.6 155.4#
129 82.2 82.7 124.1#
131 0.0 80.5 120.7#



#68
m/p-Xylenes
Concen: 0.258 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion:106 Resp: 390
Ion Ratio Lower Upper
106 100
91 195.6 165.4 248.0

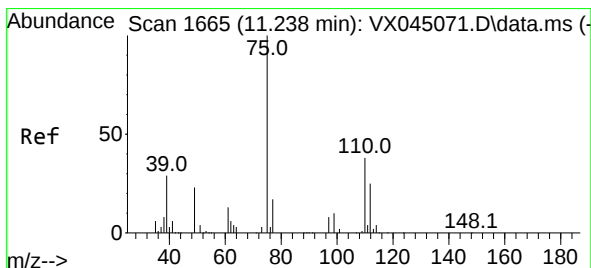
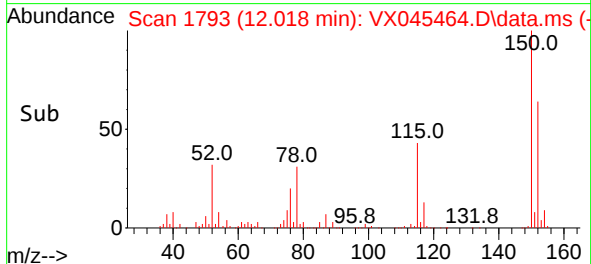
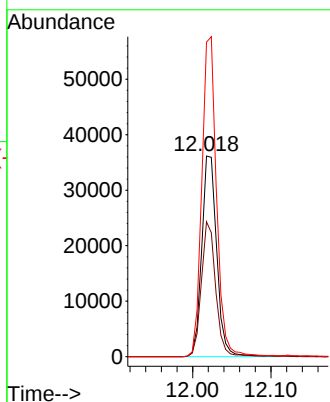
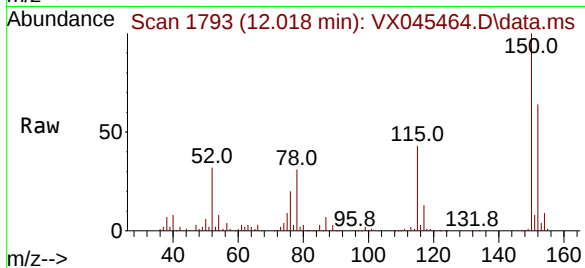




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

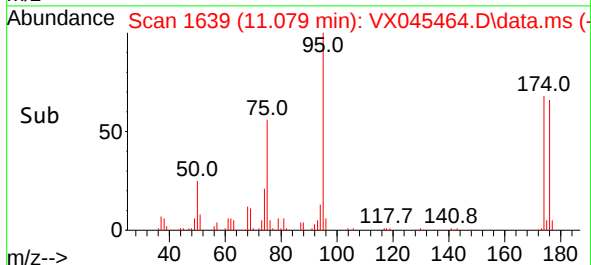
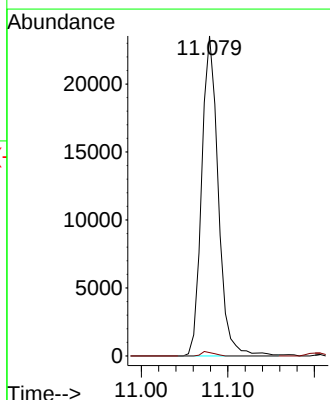
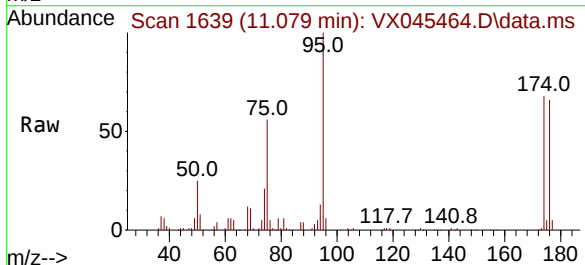
Instrument :
MSVOA_X
ClientSampleId :
IBLK

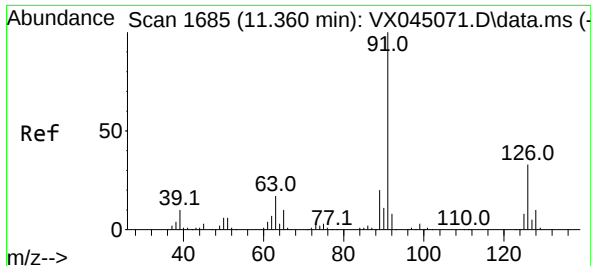
Tgt Ion:152 Resp: 48112
Ion Ratio Lower Upper
152 100
115 64.0 44.2 132.6
150 156.6 0.0 349.0



#76
1,2,3-Trichloropropane
Concen: 28.018 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion: 75 Resp: 31375
Ion Ratio Lower Upper
75 100
77 1.0 20.7 62.1#

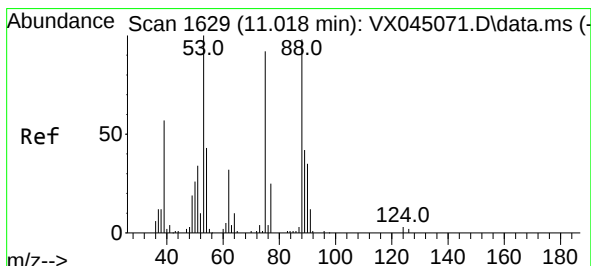
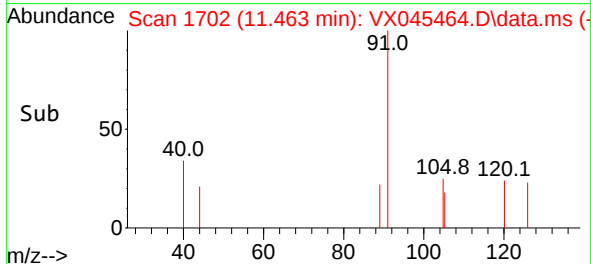
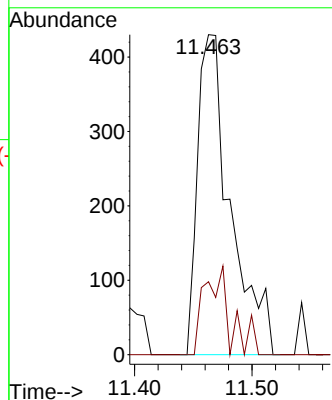
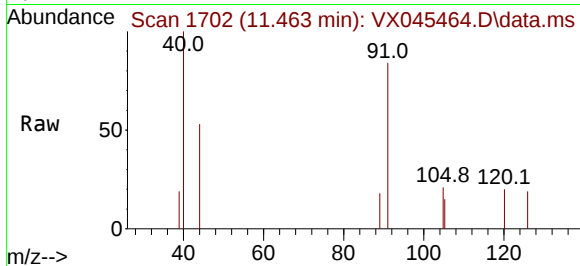




#79
2-Chlorotoluene
Concen: 0.310 ug/l
RT: 11.463 min Scan# 11
Delta R.T. 0.103 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

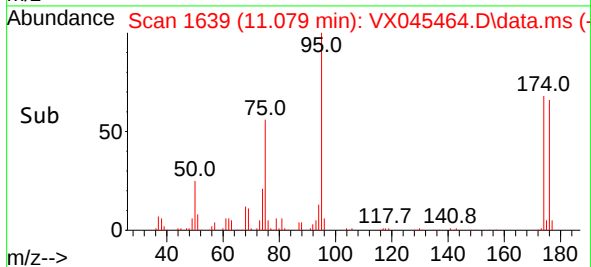
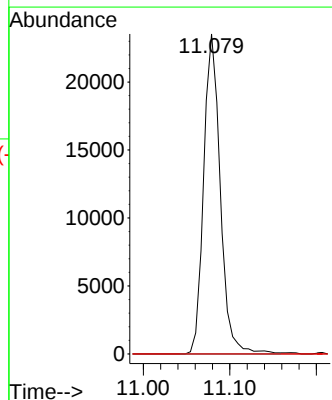
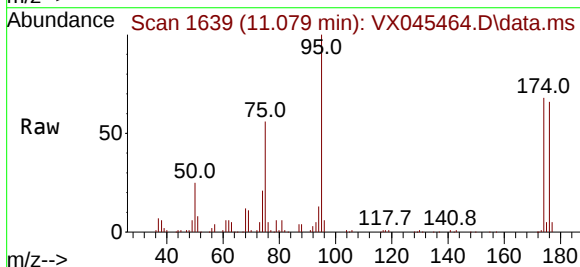
Instrument :
MSVOA_X
ClientSampleId :
IBLK

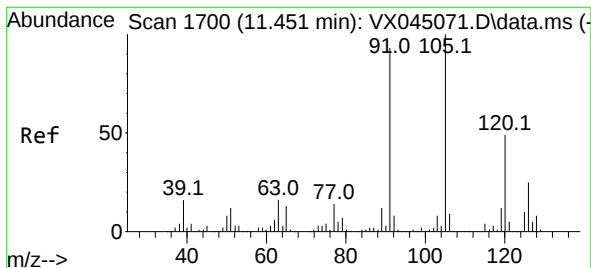
Tgt Ion: 91 Resp: 837
Ion Ratio Lower Upper
91 100
126 21.6 16.4 49.4



#81
trans-1,4-Dichloro-2-butene
Concen: 95.883 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion: 75 Resp: 31375
Ion Ratio Lower Upper
75 100
53 0.0 88.5 132.7#
89 0.0 36.2 54.4#

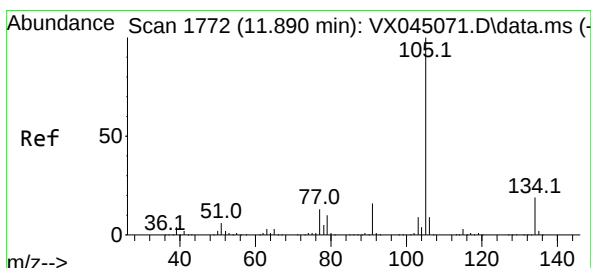
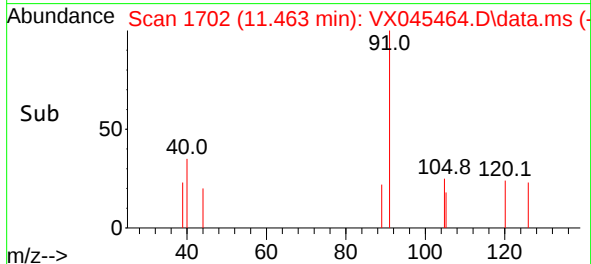
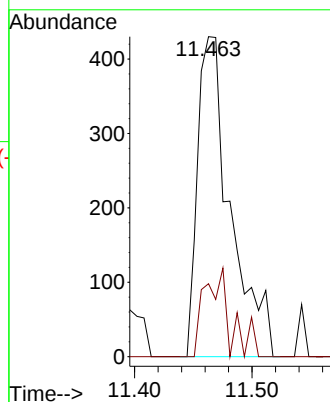
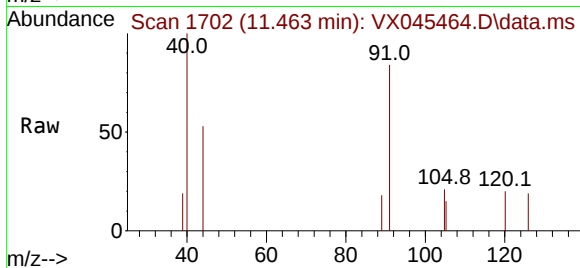




#82
4-Chlorotoluene
Concen: 0.284 ug/l
RT: 11.463 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

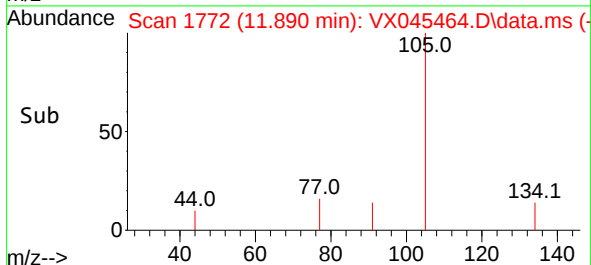
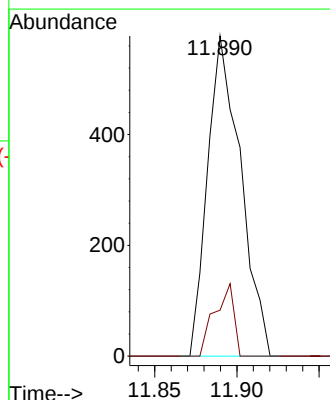
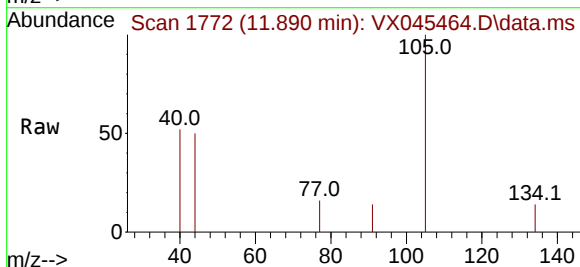
Instrument :
MSVOA_X
ClientSampleId :
IBLK

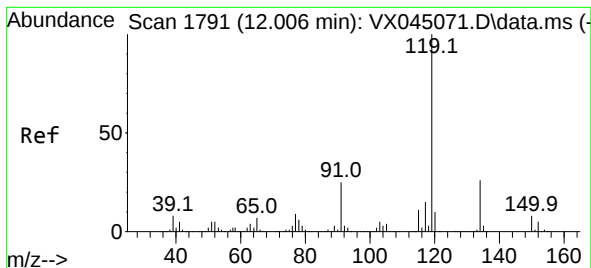
Tgt Ion: 91 Resp: 837
Ion Ratio Lower Upper
91 100
126 21.6 14.1 42.4



#85
sec-Butylbenzene
Concen: 0.216 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion: 105 Resp: 807
Ion Ratio Lower Upper
105 100
134 13.1 9.8 29.4





#86

p-Isopropyltoluene

Concen: 0.210 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX045464.D

Acq: 26 Mar 2025 12:56

Instrument :

MSVOA_X

ClientSampleId :

IBLK

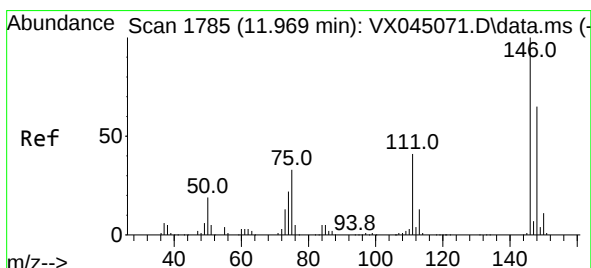
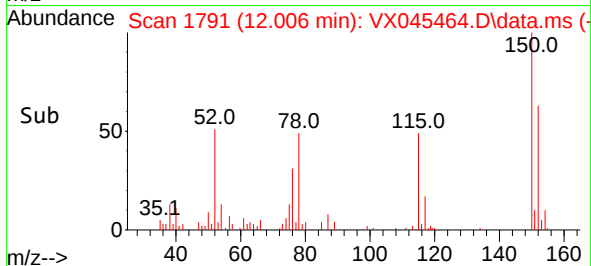
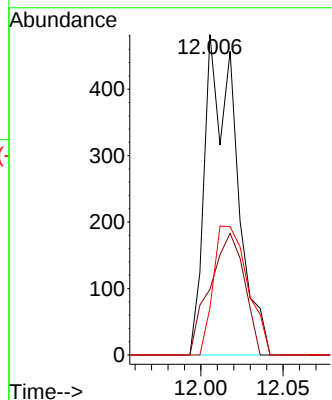
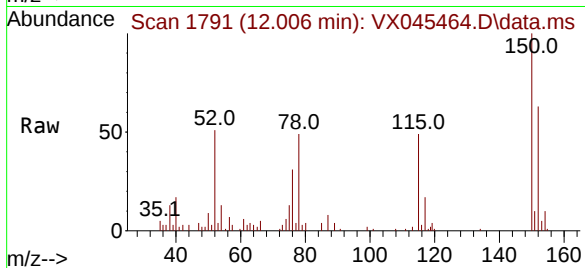
Tgt Ion:119 Resp: 635

Ion Ratio Lower Upper

119 100

134 41.7 12.9 38.6#

91 44.3 12.7 38.0#



#87

1,3-Dichlorobenzene

Concen: 0.285 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. 0.006 min

Lab File: VX045464.D

Acq: 26 Mar 2025 12:56

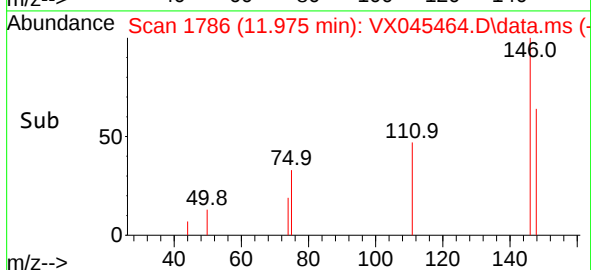
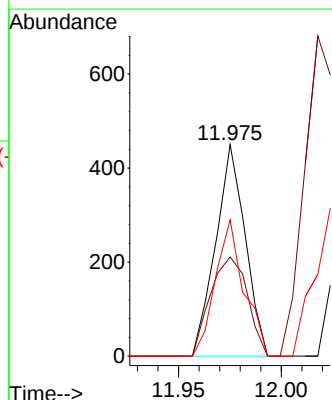
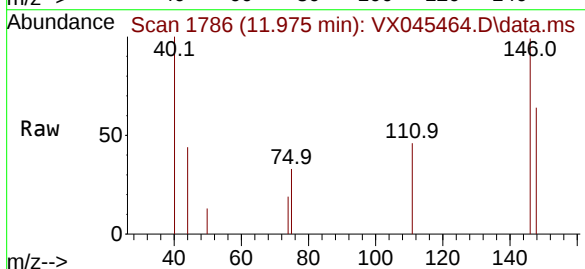
Tgt Ion:146 Resp: 450

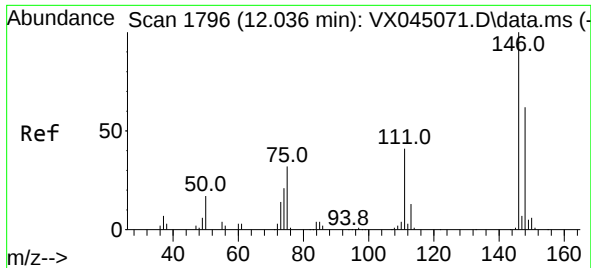
Ion Ratio Lower Upper

146 100

111 58.7 21.1 63.4

148 62.4 31.9 95.7

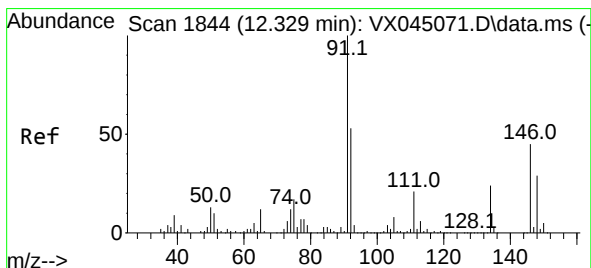
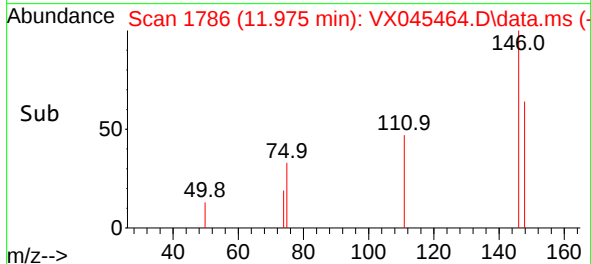
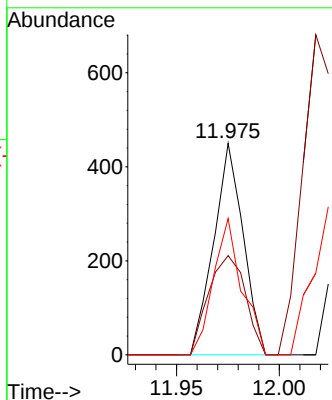
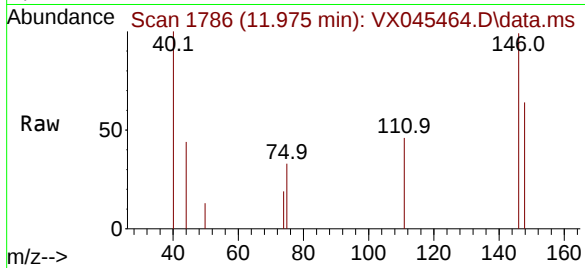




#88
1,4-Dichlorobenzene
Concen: 0.281 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. -0.061 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

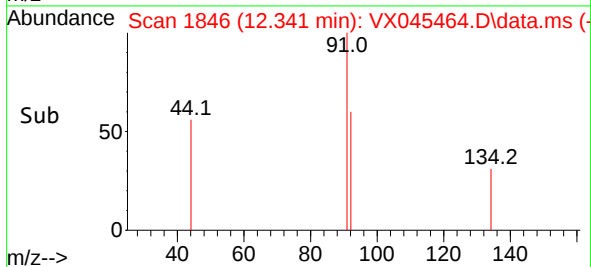
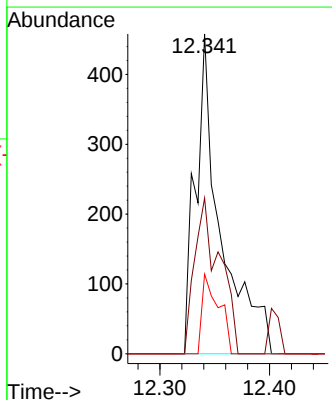
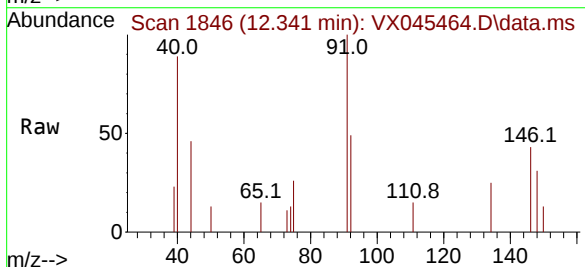
Instrument :
MSVOA_X
ClientSampleId :
IBLK

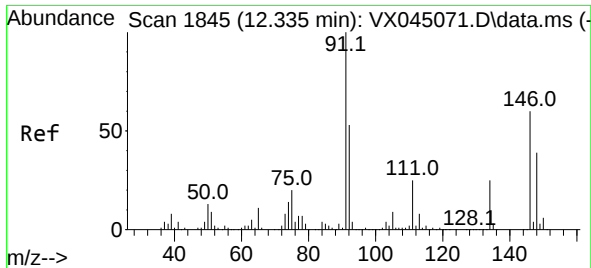
Tgt Ion:146 Resp: 450
Ion Ratio Lower Upper
146 100
111 58.7 20.2 60.5
148 62.4 31.9 95.9



#89
n-Butylbenzene
Concen: 0.281 ug/l
RT: 12.341 min Scan# 1846
Delta R.T. 0.012 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion: 91 Resp: 730
Ion Ratio Lower Upper
91 100
92 48.8 26.7 80.0
134 16.7 12.2 36.6

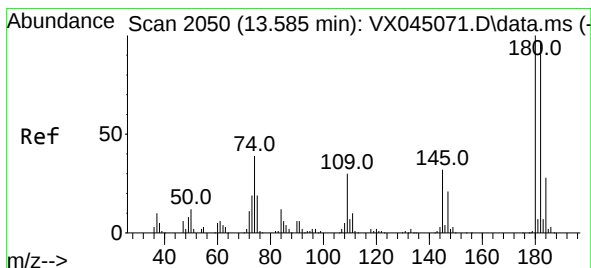
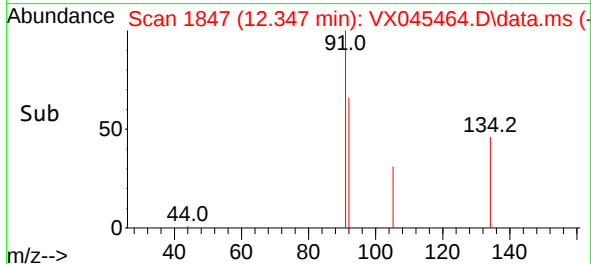
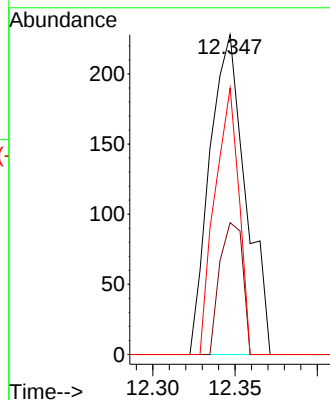
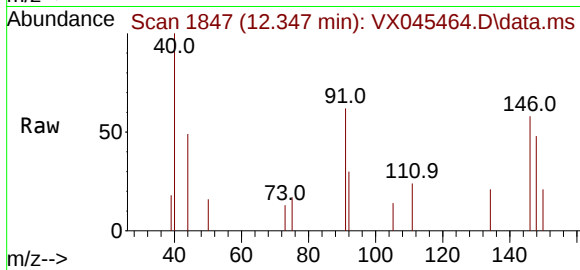




#91
1,2-Dichlorobenzene
Concen: 0.218 ug/l
RT: 12.347 min Scan# 1847
Delta R.T. 0.012 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

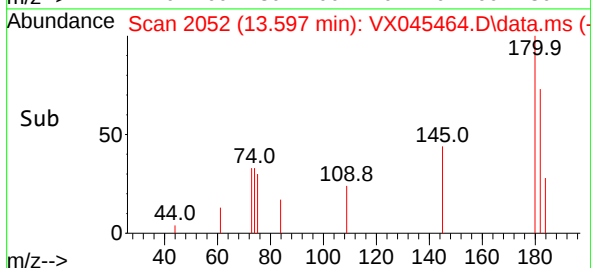
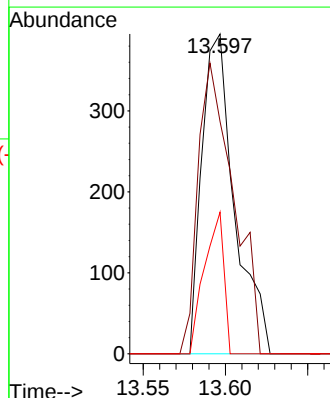
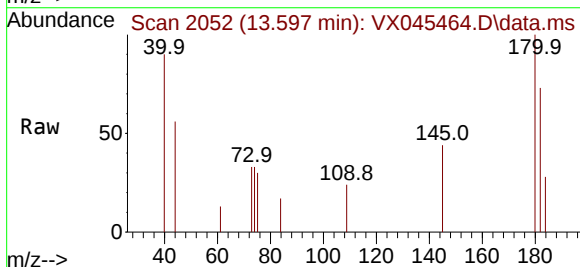
Instrument :
MSVOA_X
ClientSampleId :
IBLK

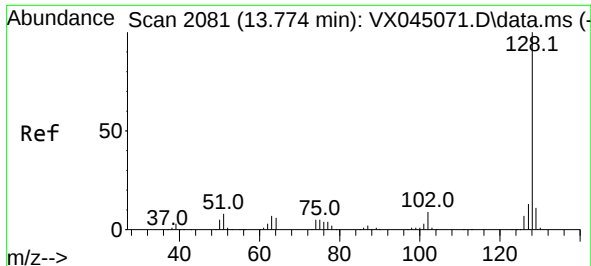
Tgt Ion:146	Resp:	346
Ion	Ratio	Lower Upper
146	100	
111	26.3	21.6 65.0
148	55.8	31.9 95.9



#93
1,2,4-Trichlorobenzene
Concen: 0.604 ug/l
RT: 13.597 min Scan# 2052
Delta R.T. 0.012 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion:180	Resp:	545
Ion	Ratio	Lower Upper
180	100	
182	99.1	47.3 141.9
145	26.4	16.3 48.9

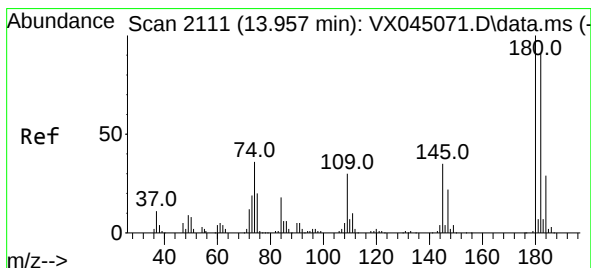
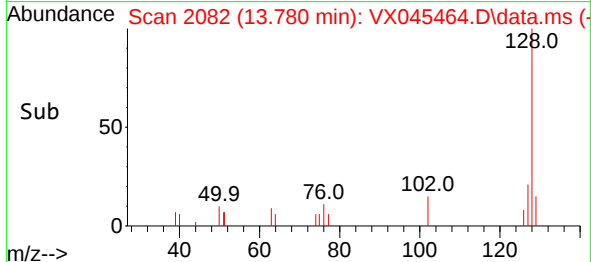
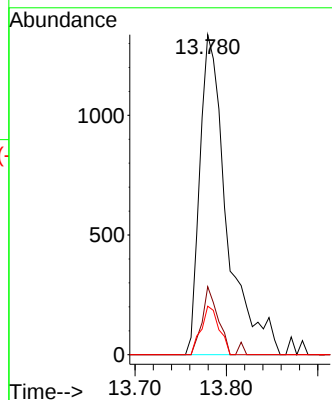
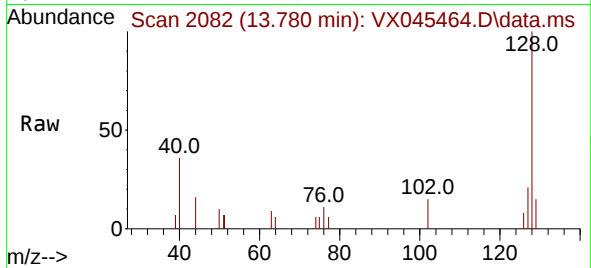




#95
Naphthalene
Concen: 0.793 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Instrument :
MSVOA_X
ClientSampleId :
IBLK

Tgt Ion:128 Resp: 2750
Ion Ratio Lower Upper
128 100
127 12.4 10.3 15.5
129 10.0 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.644 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045464.D
Acq: 26 Mar 2025 12:56

Tgt Ion:180 Resp: 613
Ion Ratio Lower Upper
180 100
182 97.4 47.5 142.6
145 23.2 17.0 50.9

