

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100925\
 Data File : VX048086.D
 Acq On : 09 Oct 2025 15:01
 Operator : JC/MD
 Sample : Q3311-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 C-MW-3

Quant Time: Oct 10 01:25:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

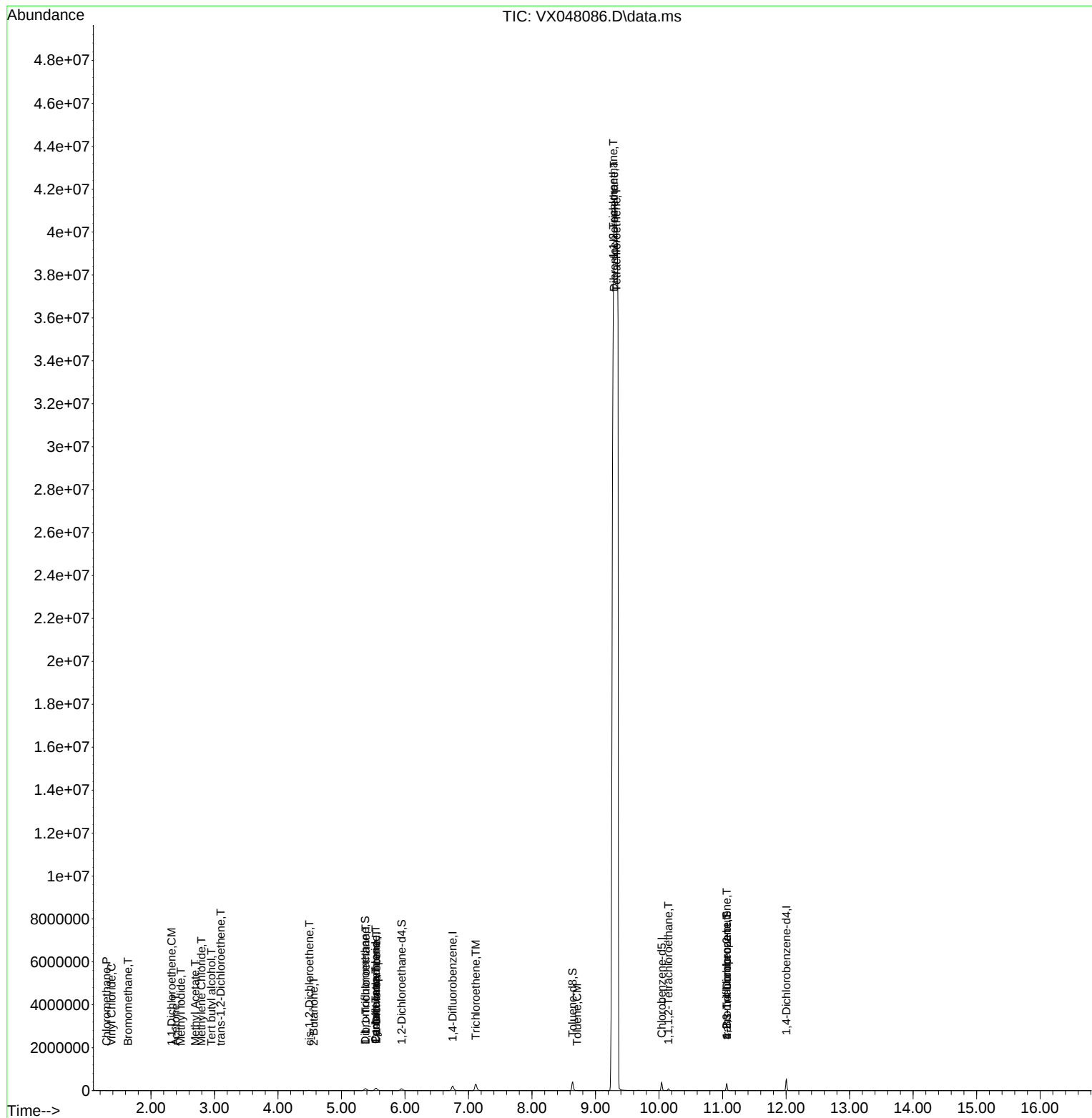
Internal Standards						
1) Pentafluorobenzene	5.543	168	112301	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.750	114	232634	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.043	117	167533	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	104628	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	99618	55.729	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 111.460%	
35) Dibromofluoromethane	5.373	113	79043	50.663	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.320%	
50) Toluene-d8	8.640	98	263771	48.860	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 97.720%	
62) 4-Bromofluorobenzene	11.067	95	90699	44.269	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 88.540%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.300	50	436	0.285	ug/l	95
4) Vinyl Chloride	1.379	62	5633	3.765	ug/l	99
5) Bromomethane	1.636	94	496	0.523	ug/l #	76
10) Methyl Iodide	2.471	142	756	0.373	ug/l #	89
11) Tert butyl alcohol	2.952	59	443	2.225	ug/l #	72
12) 1,1-Dichloroethene	2.324	96	1188	0.890	ug/l #	76
16) Acetone	2.385	43	2109	2.713	ug/l #	84
18) Methyl Acetate	2.696	43	647	0.374	ug/l #	84
20) Methylene Chloride	2.794	84	447	0.272	ug/l #	52
21) trans-1,2-Dichloroethene	3.099	96	288	0.200	ug/l #	63
25) 2-Butanone	4.562	43	5414	5.584	ug/l #	82
27) cis-1,2-Dichloroethene	4.495	96	10874	6.181	ug/l	89
31) Cyclohexane	5.537	56	2565	1.086	ug/l #	10
32) 1,1,1-Trichloroethane	5.379	97	15212	6.258	ug/l	98
36) 1,1-Dichloropropene	5.549	75	9692	4.251	ug/l #	51
38) Carbon Tetrachloride	5.537	117	11997	4.843	ug/l #	17
44) Trichloroethene	7.116	130	132167	78.951	ug/l	94
52) Toluene	8.707	92	2320	0.544	ug/l	93
55) 1,1,2-Trichloroethane	9.281	97	285400	173.500	ug/l #	14
60) Dibromochloromethane	9.293	129	30179712	15922.913	ug/l #	11
64) Tetrachloroethene	9.329	164	31541329	28880.321	ug/l	88
66) 1,1,1,2-Tetrachloroethane	10.146	131	19582	14.910	ug/l	98
76) 1,2,3-Trichloropropane	11.067	75	47602	22.471	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.067	75	47602	57.304	ug/l #	8

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

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Instrument :
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ClientSampleId :
C-MW-3

Quant Time: Oct 10 01:25:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

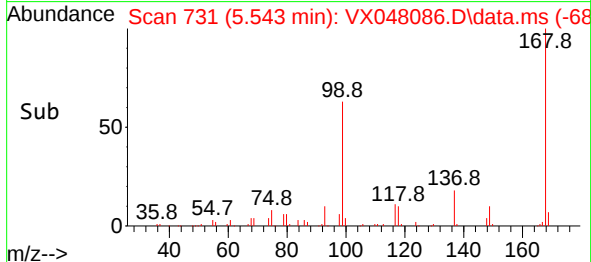
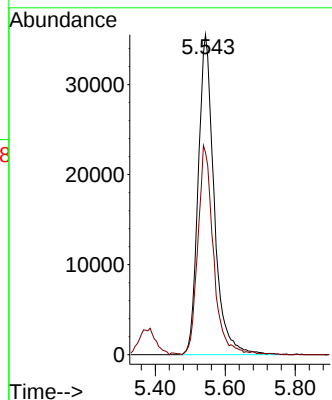
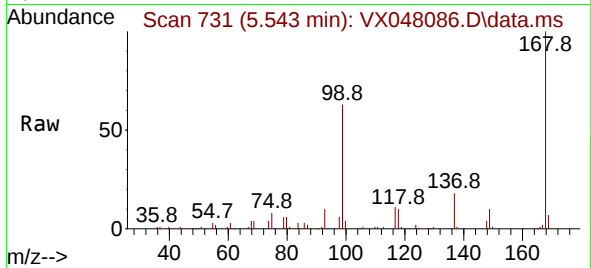




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

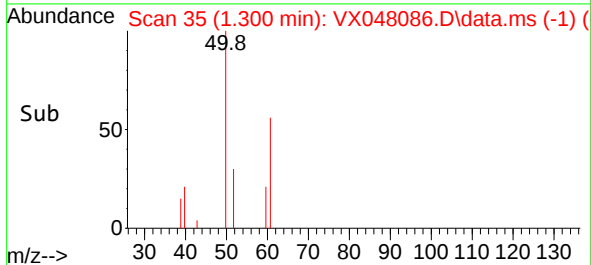
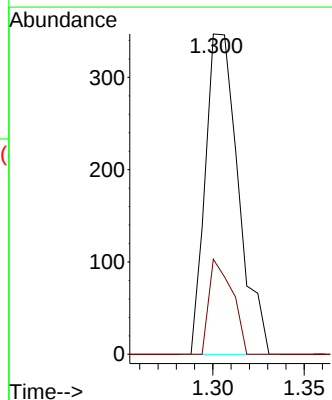
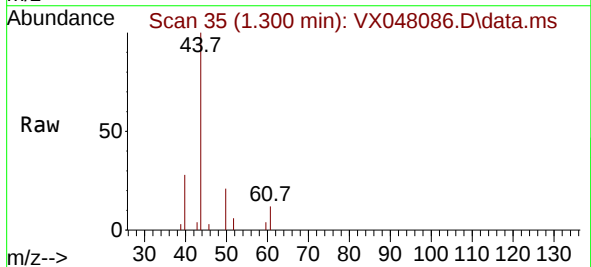
Instrument :
MSVOA_X
ClientSampleId :
C-MW-3

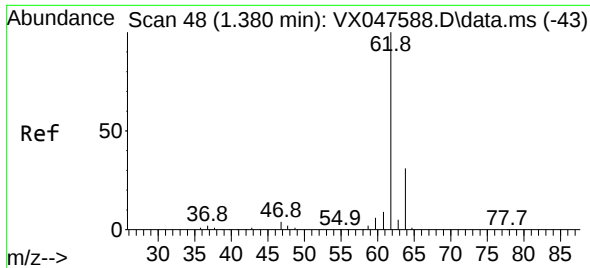
Tgt Ion:168 Resp: 112301
Ion Ratio Lower Upper
168 100
99 63.0 48.8 73.2



#3
Chloromethane
Concen: 0.285 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Tgt Ion: 50 Resp: 436
Ion Ratio Lower Upper
50 100
52 29.7 26.1 39.1

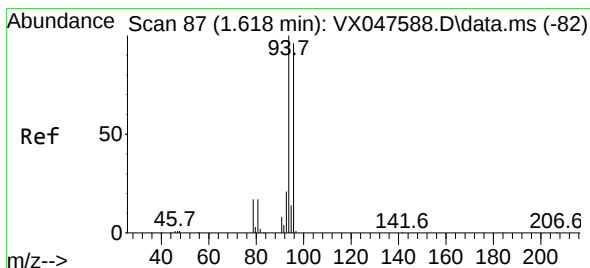
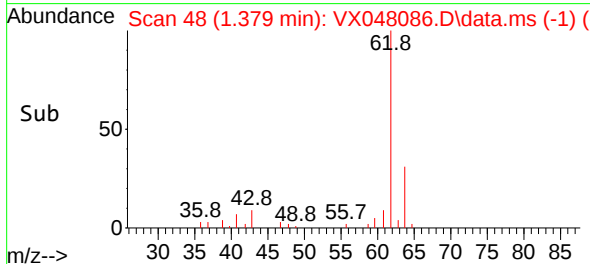
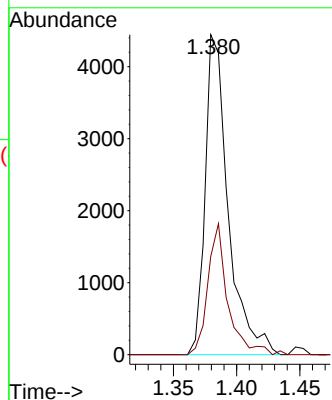
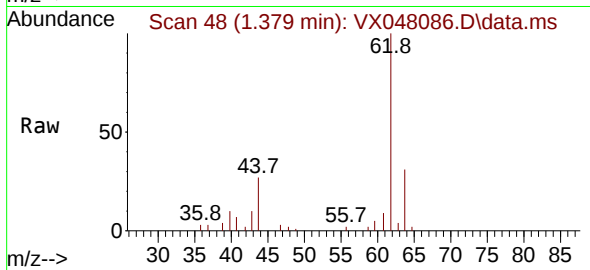




#4
 Vinyl Chloride
 Concen: 3.765 ug/l
 RT: 1.379 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VX048086.D
 Acq: 09 Oct 2025 15:01

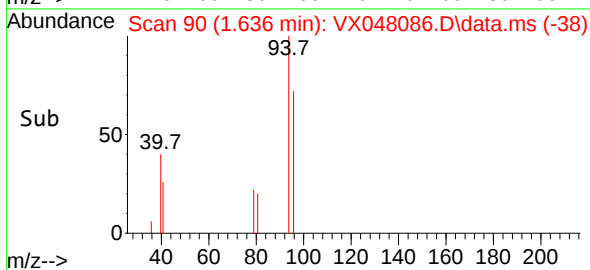
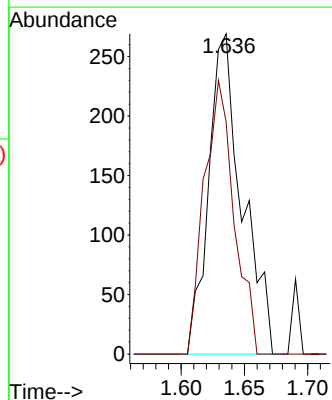
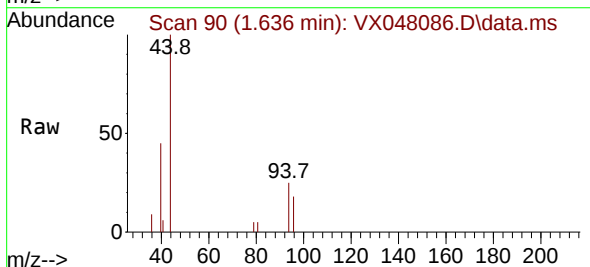
Instrument :
 MSVOA_X
 ClientSampleId :
 C-MW-3

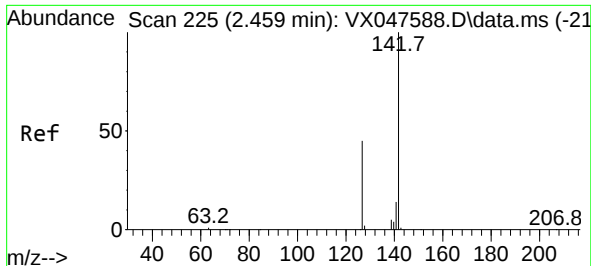
Tgt Ion: 62 Resp: 5633
 Ion Ratio Lower Upper
 62 100
 64 30.7 24.9 37.3



#5
 Bromomethane
 Concen: 0.523 ug/l
 RT: 1.636 min Scan# 90
 Delta R.T. 0.018 min
 Lab File: VX048086.D
 Acq: 09 Oct 2025 15:01

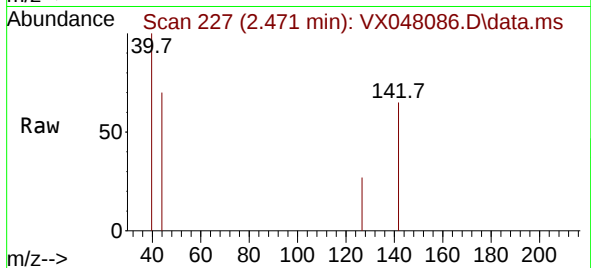
Tgt Ion: 94 Resp: 496
 Ion Ratio Lower Upper
 94 100
 96 72.5 76.6 115.0#



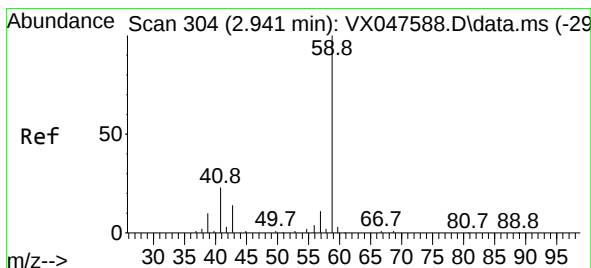
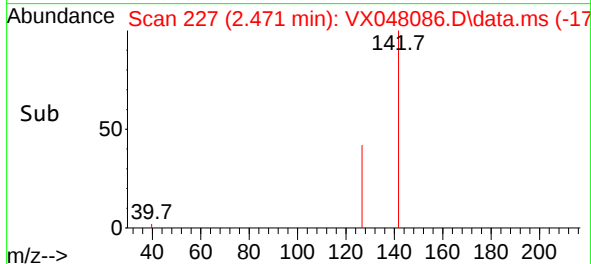
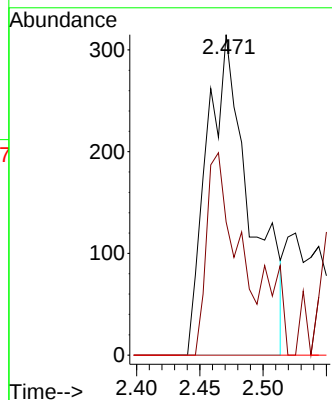


#10
Methyl Iodide
Concen: 0.373 ug/l
RT: 2.471 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Instrument :
MSVOA_X
ClientSampleId :
C-MW-3

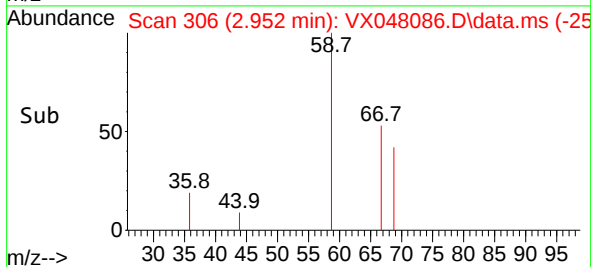
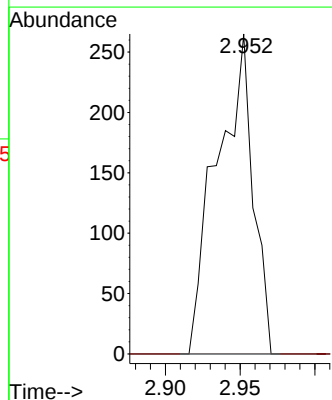
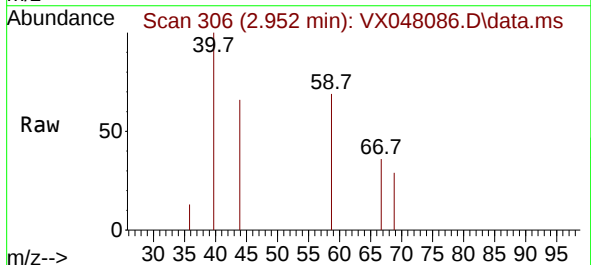


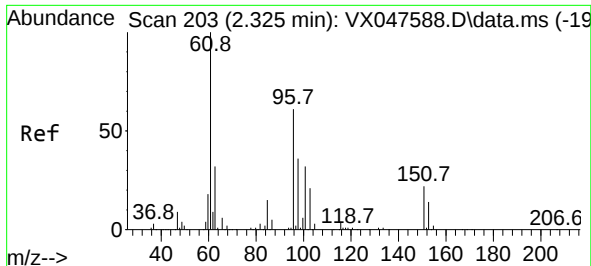
Tgt Ion:142 Resp: 756
Ion Ratio Lower Upper
142 100
127 43.9 37.2 55.8
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.225 ug/l
RT: 2.952 min Scan# 306
Delta R.T. 0.012 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Tgt Ion: 59 Resp: 443
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

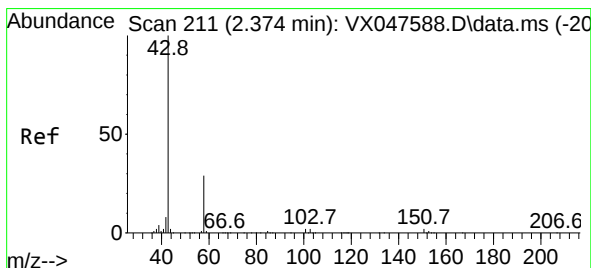
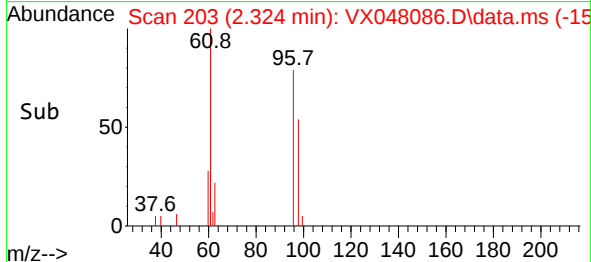
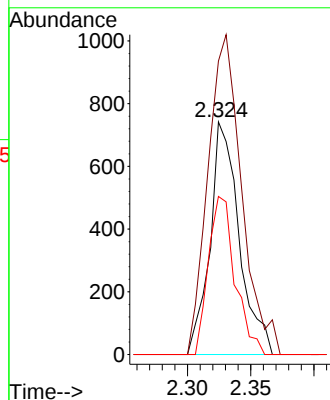
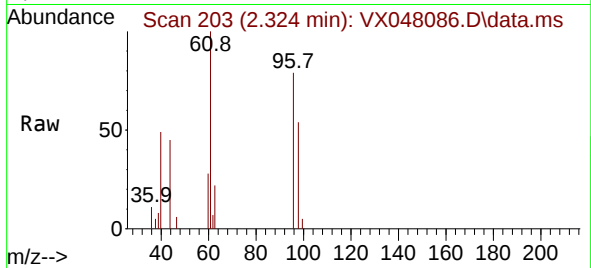




#12
1,1-Dichloroethene
Concen: 0.890 ug/l
RT: 2.324 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

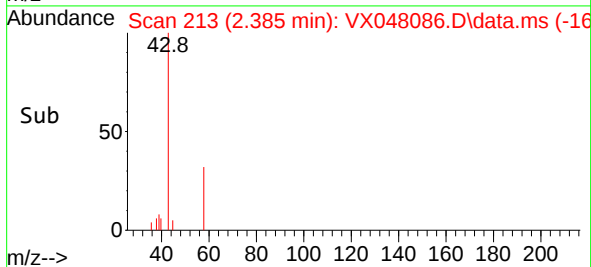
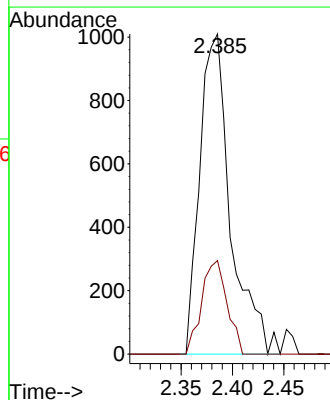
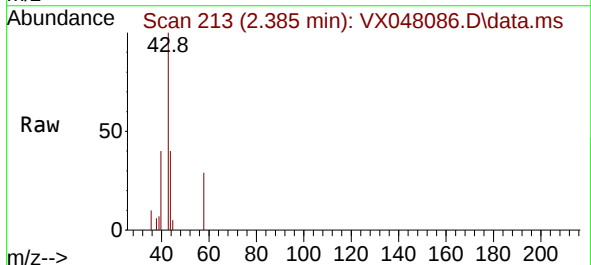
Instrument :
MSVOA_X
ClientSampleId :
C-MW-3

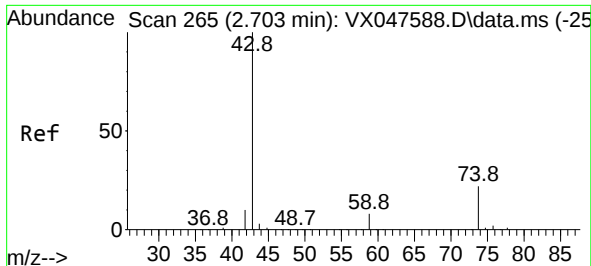
Tgt Ion: 96 Resp: 1188
Ion Ratio Lower Upper
96 100
61 126.1 131.0 196.6#
98 67.9 47.7 71.5



#16
Acetone
Concen: 2.713 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.012 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Tgt Ion: 43 Resp: 2109
Ion Ratio Lower Upper
43 100
58 20.9 23.4 35.0#





#18

Methyl Acetate

Concen: 0.374 ug/l

RT: 2.696 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX048086.D

Acq: 09 Oct 2025 15:01

Instrument :

MSVOA_X

ClientSampleId :

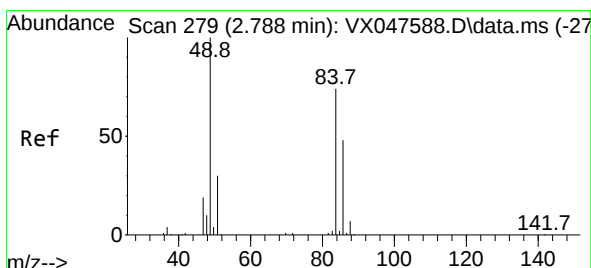
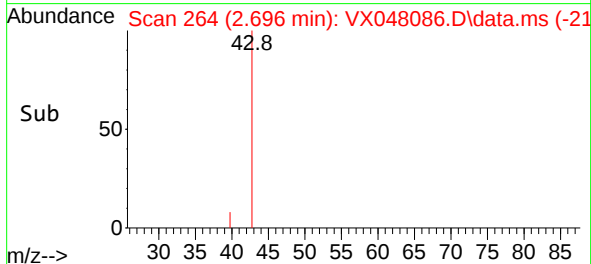
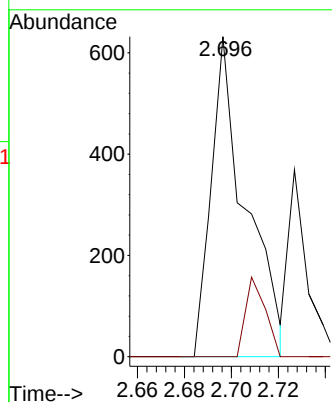
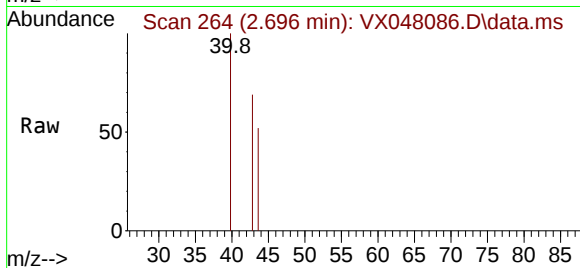
C-MW-3

Tgt Ion: 43 Resp: 647

Ion Ratio Lower Upper

43 100

74 14.1 17.4 26.2#



#20

Methylene Chloride

Concen: 0.272 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX048086.D

Acq: 09 Oct 2025 15:01

Tgt Ion: 84 Resp: 447

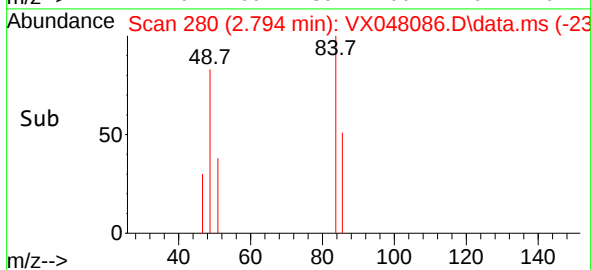
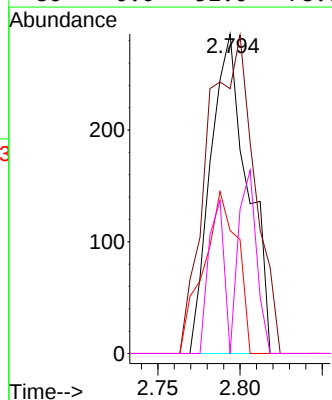
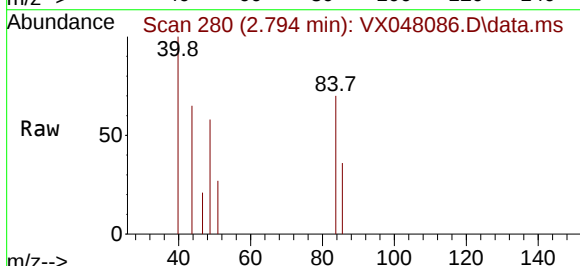
Ion Ratio Lower Upper

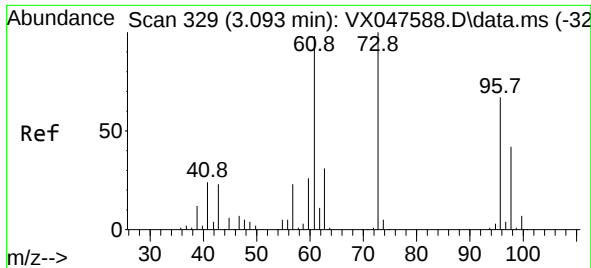
84 100

49 82.9 108.6 162.8#

51 38.5 32.6 48.8

86 0.0 52.0 78.0#

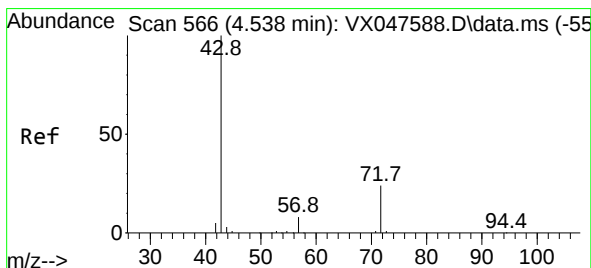
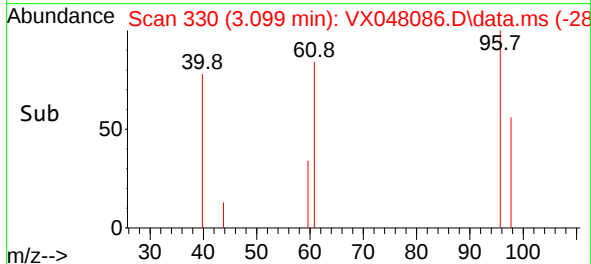
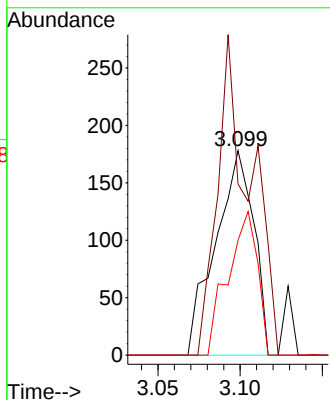
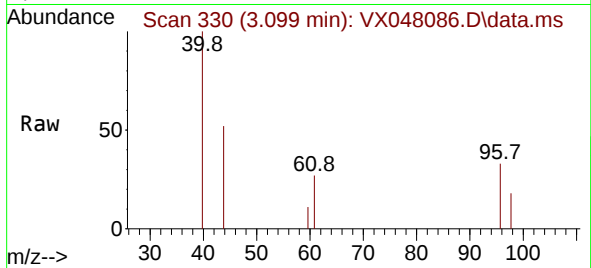




#21
trans-1,2-Dichloroethene
Concen: 0.200 ug/l
RT: 3.099 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

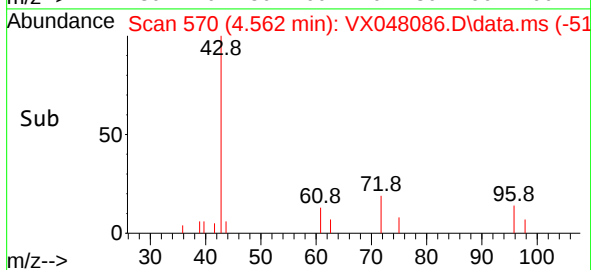
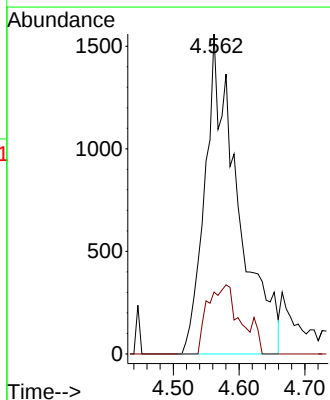
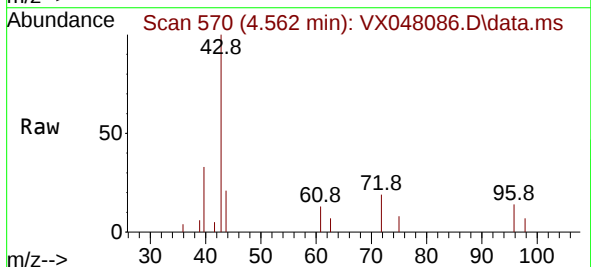
Instrument :
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ClientSampleId :
C-MW-3

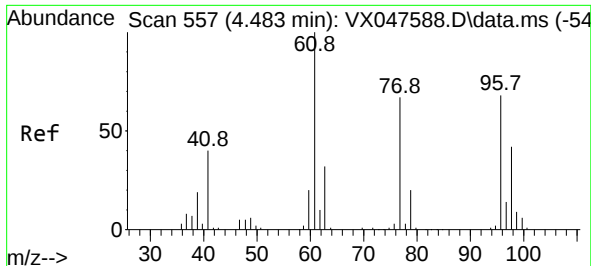
Tgt Ion: 96 Resp: 288
Ion Ratio Lower Upper
96 100
61 83.7 116.2 174.2#
98 56.2 49.3 73.9



#25
2-Butanone
Concen: 5.584 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.024 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Tgt Ion: 43 Resp: 5414
Ion Ratio Lower Upper
43 100
72 16.0 20.1 30.1#





#27

cis-1,2-Dichloroethene

Concen: 6.181 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX048086.D

Acq: 09 Oct 2025 15:01

Instrument :

MSVOA_X

ClientSampleId :

C-MW-3

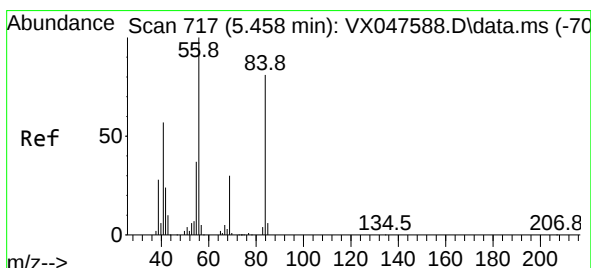
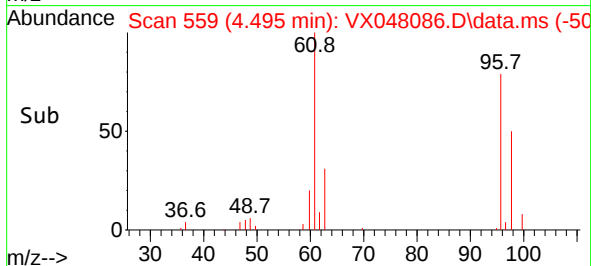
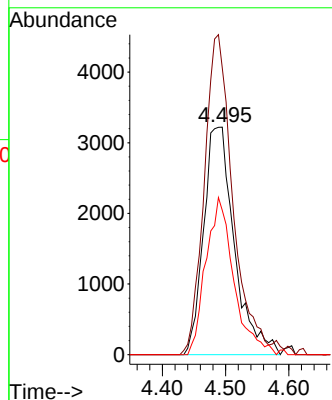
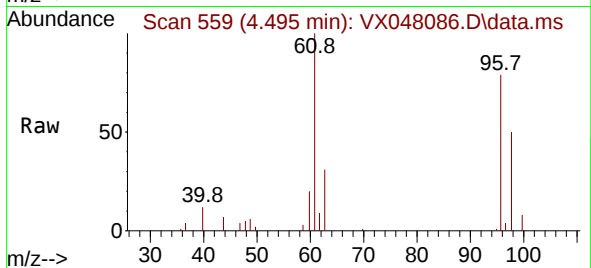
Tgt Ion: 96 Resp: 10874

Ion Ratio Lower Upper

96 100

61 132.7 0.0 303.2

98 62.7 0.0 127.8



#31

Cyclohexane

Concen: 1.086 ug/l

RT: 5.537 min Scan# 730

Delta R.T. 0.079 min

Lab File: VX048086.D

Acq: 09 Oct 2025 15:01

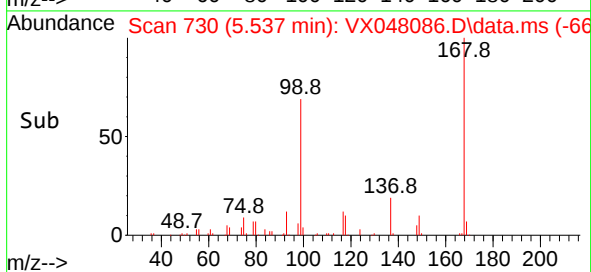
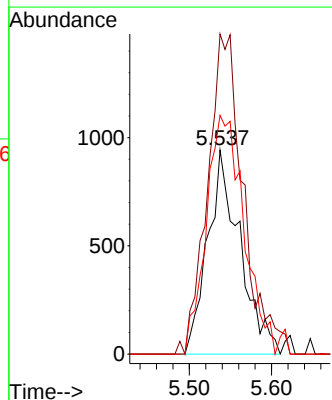
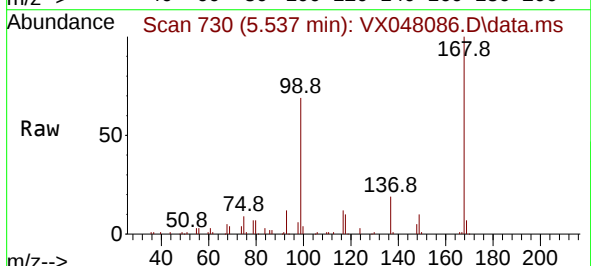
Tgt Ion: 56 Resp: 2565

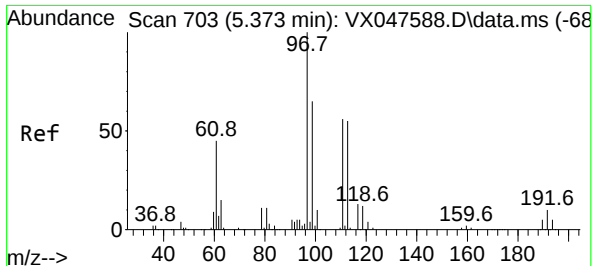
Ion Ratio Lower Upper

56 100

69 150.7 23.8 35.8#

84 117.1 64.6 97.0#

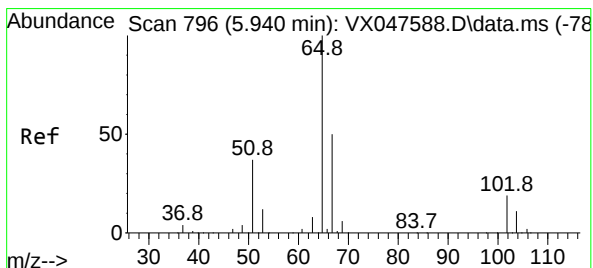
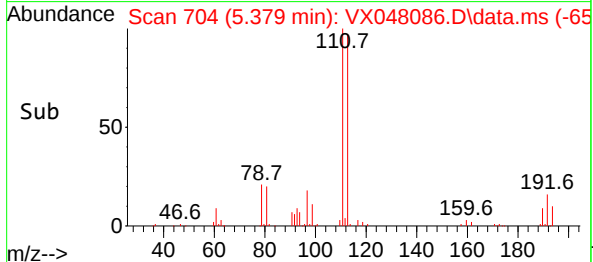
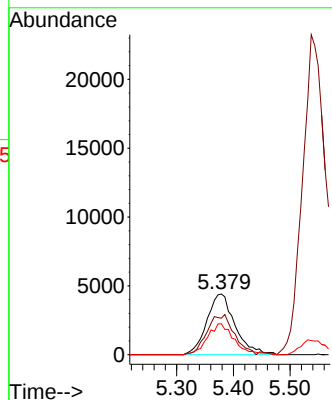
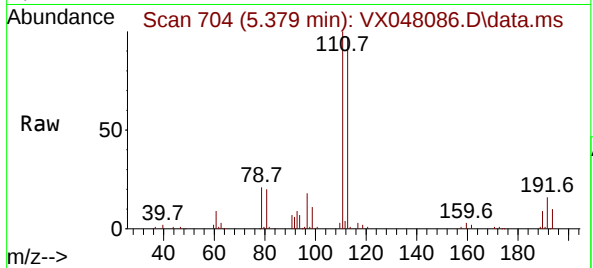




#32
 1,1,1-Trichloroethane
 Concen: 6.258 ug/l
 RT: 5.379 min Scan# 703
 Delta R.T. 0.006 min
 Lab File: VX048086.D
 Acq: 09 Oct 2025 15:01

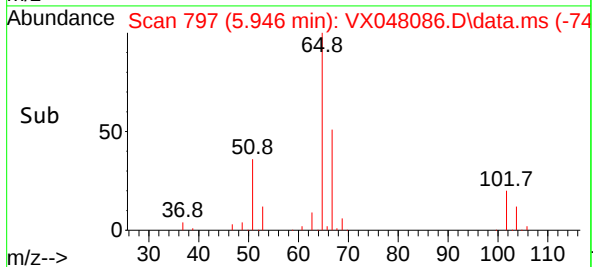
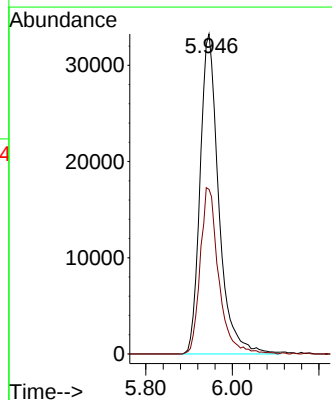
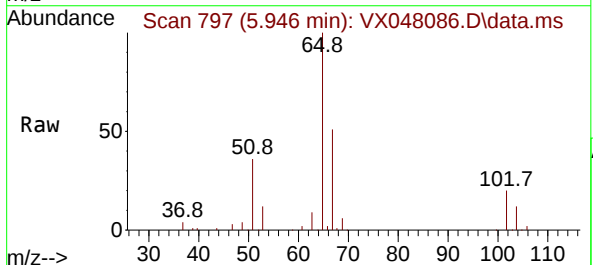
Instrument :
 MSVOA_X
 ClientSampleId :
 C-MW-3

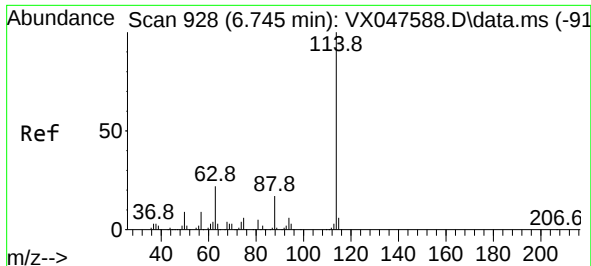
Tgt Ion: 97 Resp: 15212
 Ion Ratio Lower Upper
 97 100
 99 63.4 50.6 76.0
 61 47.9 35.8 53.8



#33
 1,2-Dichloroethane-d4
 Concen: 55.729 ug/l
 RT: 5.946 min Scan# 797
 Delta R.T. 0.006 min
 Lab File: VX048086.D
 Acq: 09 Oct 2025 15:01

Tgt Ion: 65 Resp: 99618
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.0

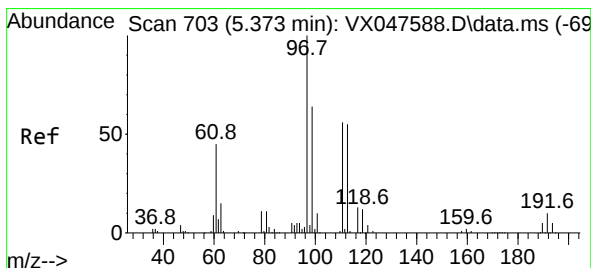
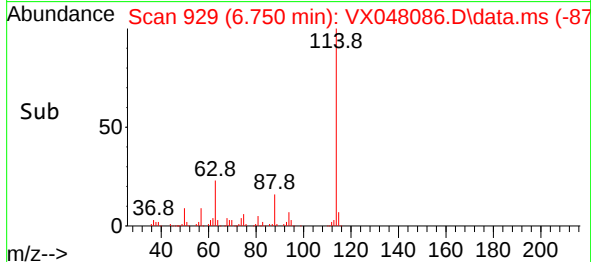
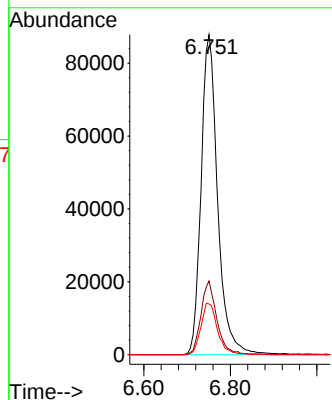
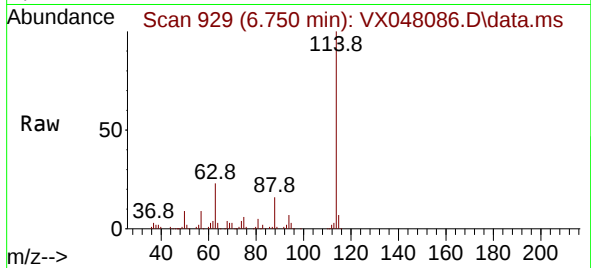




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.750 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

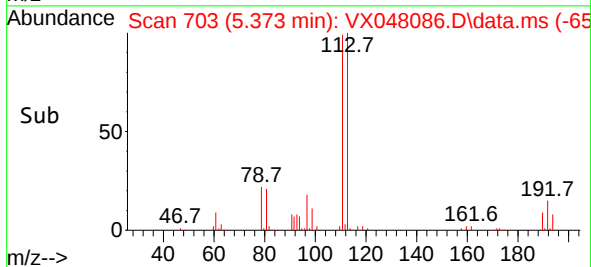
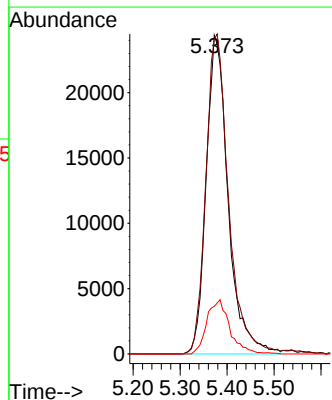
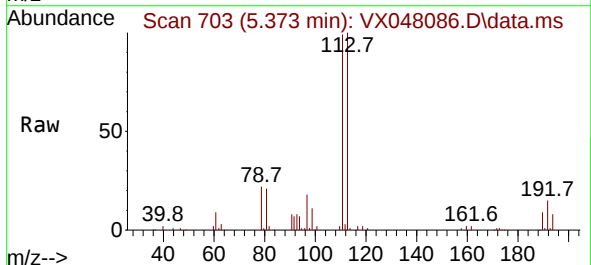
Instrument :
MSVOA_X
ClientSampleId :
C-MW-3

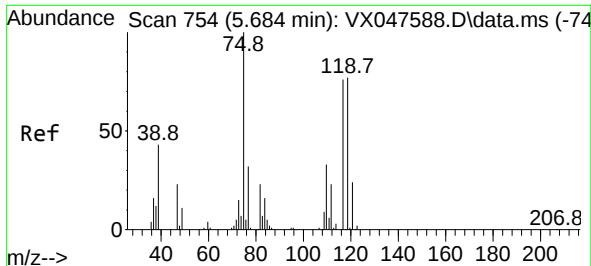
Tgt Ion:114 Resp: 232634
Ion Ratio Lower Upper
114 100
63 23.1 0.0 44.0
88 15.9 0.0 34.2



#35
Dibromofluoromethane
Concen: 50.663 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Tgt Ion:113 Resp: 79043
Ion Ratio Lower Upper
113 100
111 103.9 80.9 121.3
192 17.8 14.2 21.4

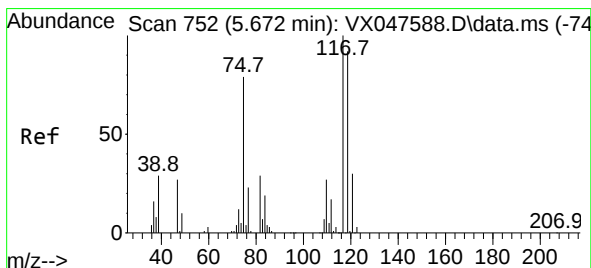
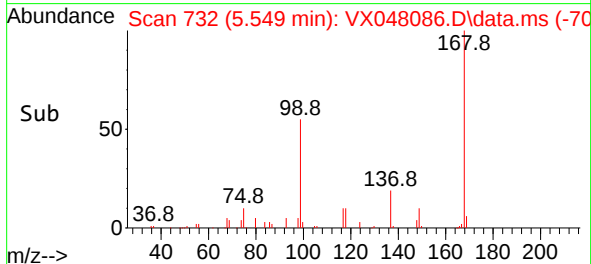
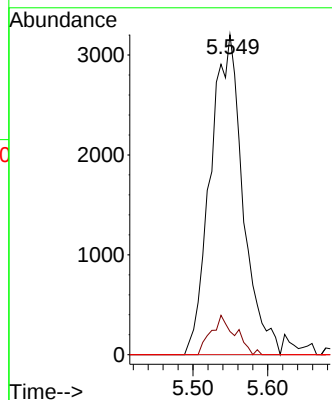
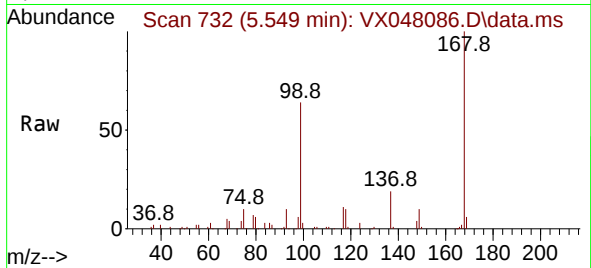




#36
1,1-Dichloropropene
Concen: 4.251 ug/l
RT: 5.549 min Scan# 71
Delta R.T. -0.135 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

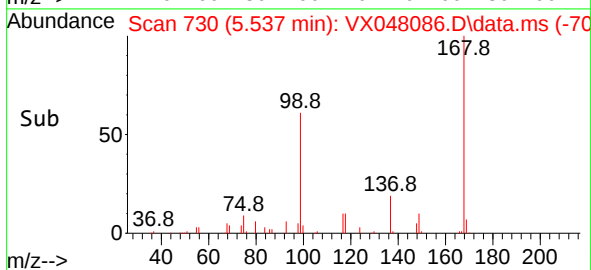
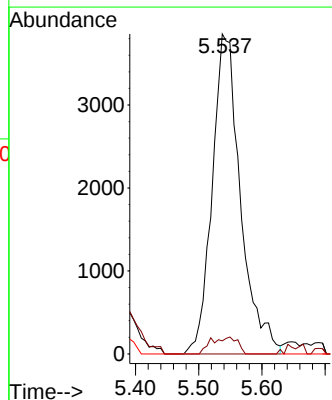
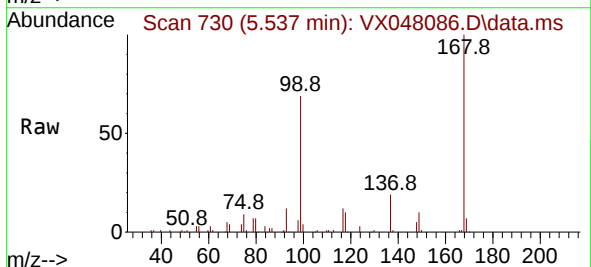
Instrument :
MSVOA_X
ClientSampleId :
C-MW-3

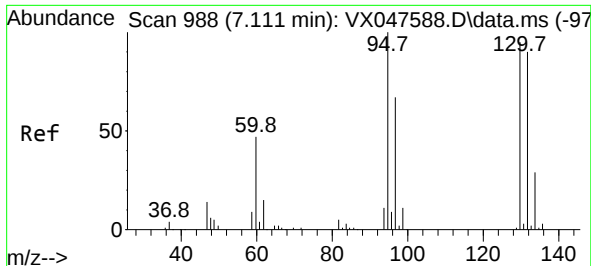
Tgt Ion: 75 Resp: 9692
Ion Ratio Lower Upper
75 100
110 9.2 16.7 50.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 4.843 ug/l
RT: 5.537 min Scan# 730
Delta R.T. -0.135 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Tgt Ion: 117 Resp: 11997
Ion Ratio Lower Upper
117 100
119 4.1 73.4 110.2#
121 0.0 23.8 35.6#

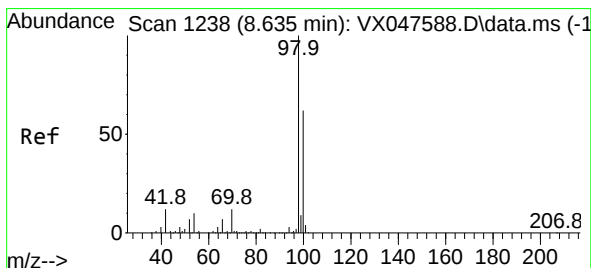
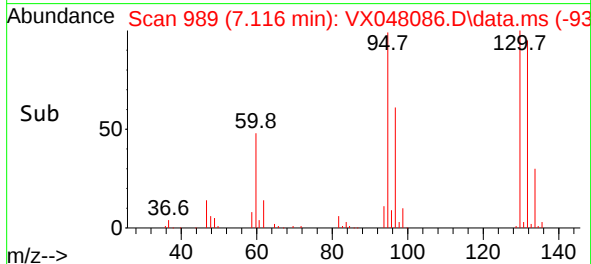
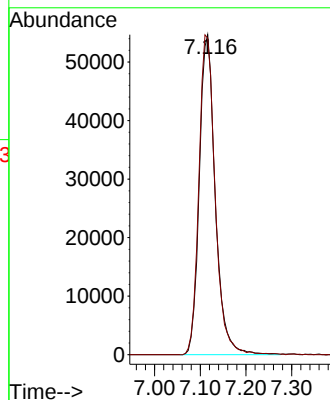
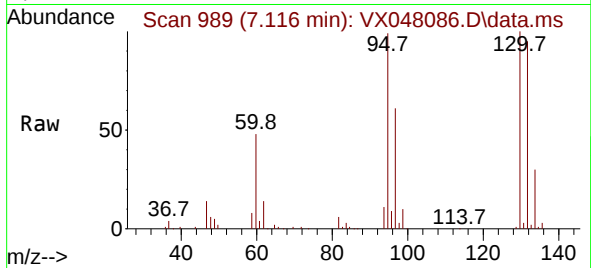




#44
Trichloroethene
Concen: 78.951 ug/l
RT: 7.116 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

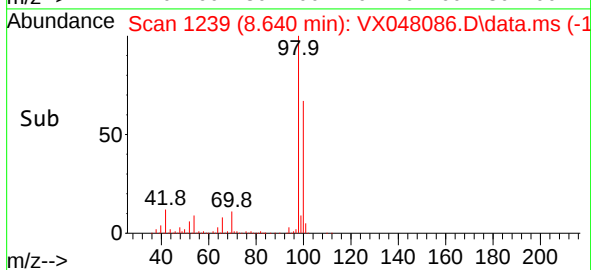
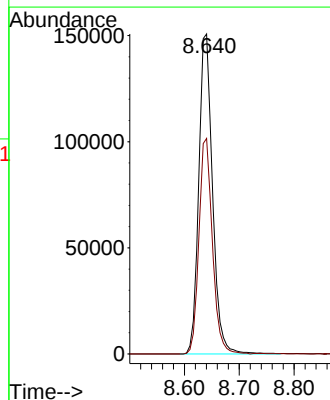
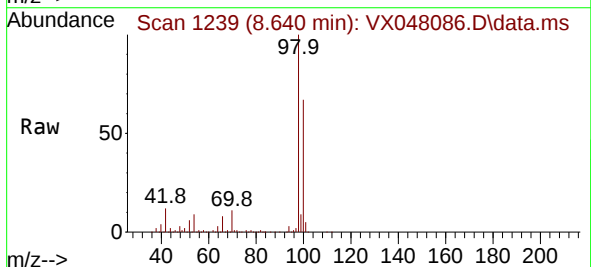
Instrument :
MSVOA_X
ClientSampleId :
C-MW-3

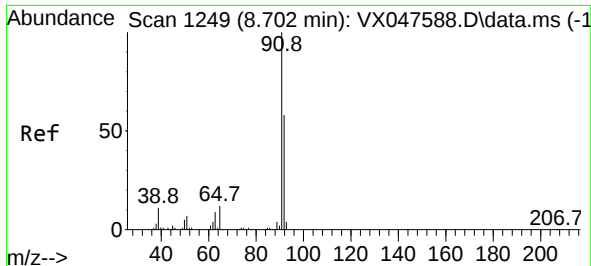
Tgt Ion:130 Resp: 132167
Ion Ratio Lower Upper
130 100
95 98.9 0.0 210.8



#50
Toluene-d8
Concen: 48.860 ug/l
RT: 8.640 min Scan# 1239
Delta R.T. 0.006 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Tgt Ion: 98 Resp: 263771
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.4

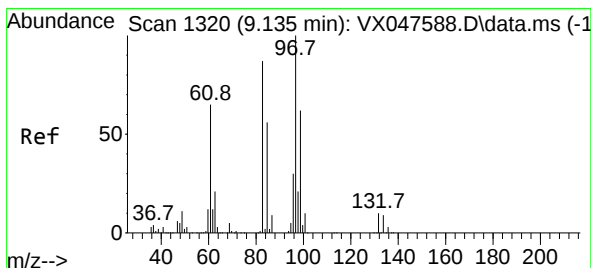
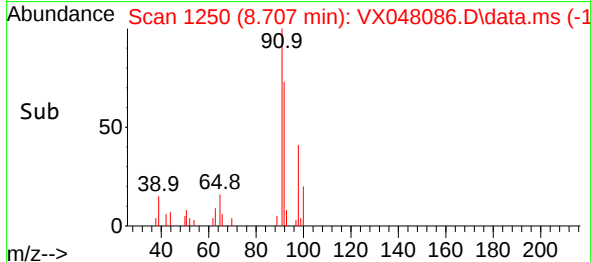
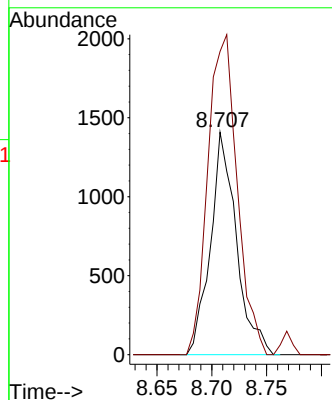
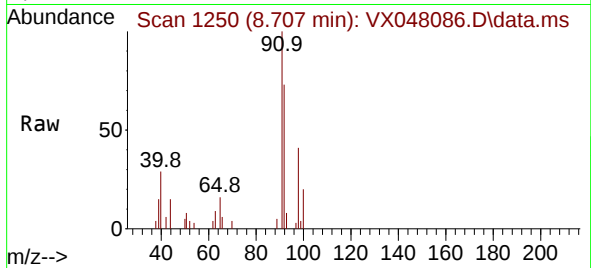




#52
Toluene
Concen: 0.544 ug/l
RT: 8.707 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

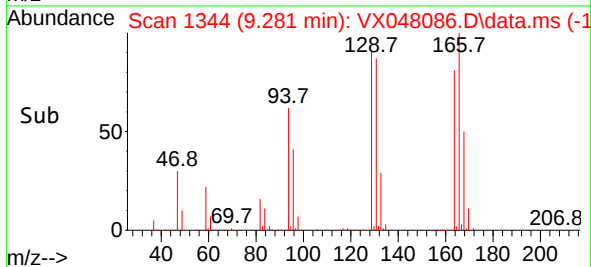
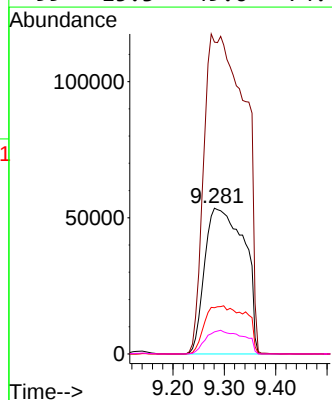
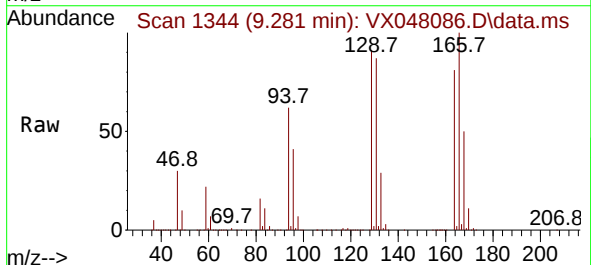
Instrument :
MSVOA_X
ClientSampleId :
C-MW-3

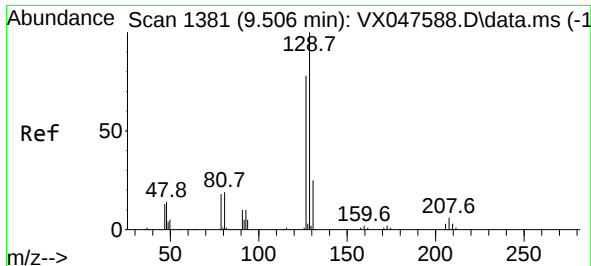
Tgt Ion: 92 Resp: 2320
Ion Ratio Lower Upper
92 100
91 162.4 137.1 205.7



#55
1,1,2-Trichloroethane
Concen: 173.500 ug/l
RT: 9.281 min Scan# 1344
Delta R.T. 0.146 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Tgt Ion: 97 Resp: 285400
Ion Ratio Lower Upper
97 100
83 214.1 69.6 104.4#
85 31.8 45.0 67.6#
99 15.3 49.6 74.4#

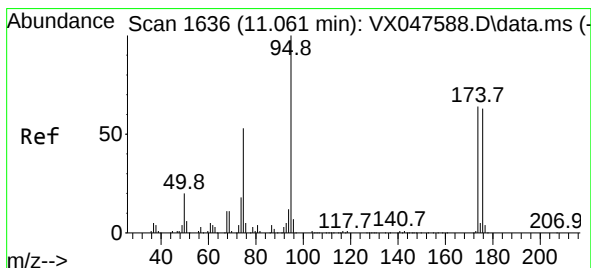
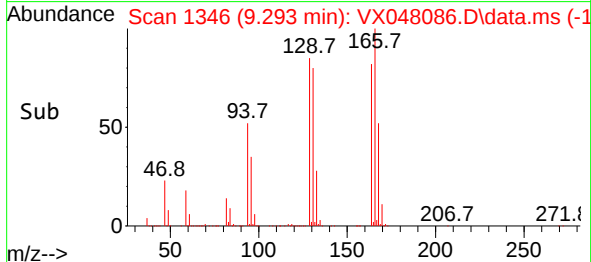
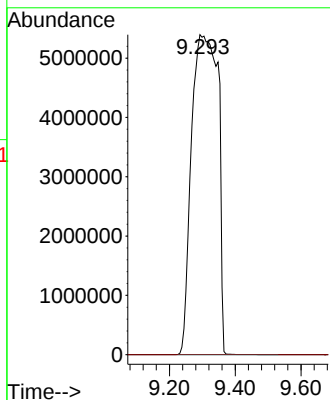
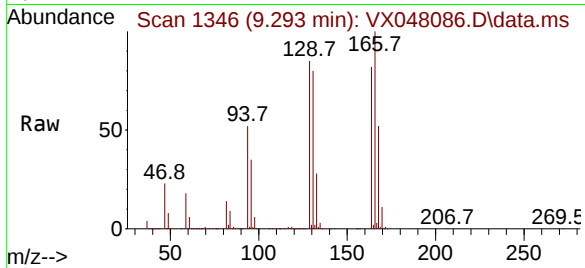




#60
Dibromochloromethane
Concen: 15922.913 ug/l
RT: 9.293 min Scan# 11
Delta R.T. -0.214 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

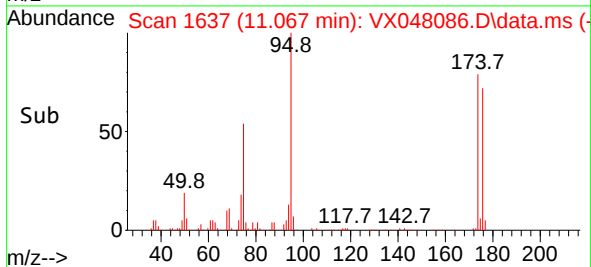
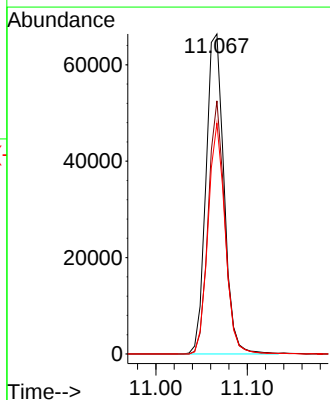
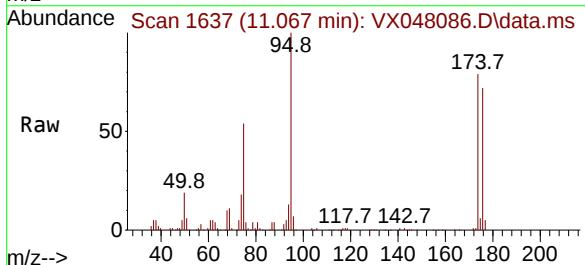
Instrument :
MSVOA_X
ClientSampleId :
C-MW-3

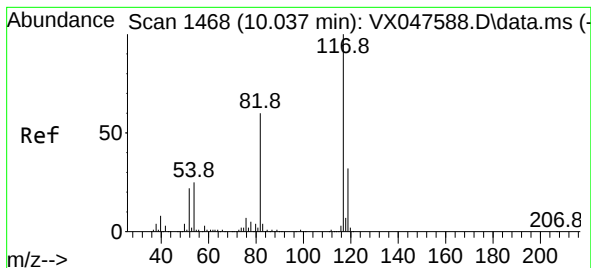
Tgt Ion:129 Resp:30179712
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 44.269 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Tgt Ion: 95 Resp: 90699
Ion Ratio Lower Upper
95 100
174 72.9 0.0 141.6
176 68.3 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.043 min Scan# 1469

Delta R.T. 0.006 min

Lab File: VX048086.D

Acq: 09 Oct 2025 15:01

Instrument :

MSVOA_X

ClientSampleId :

C-MW-3

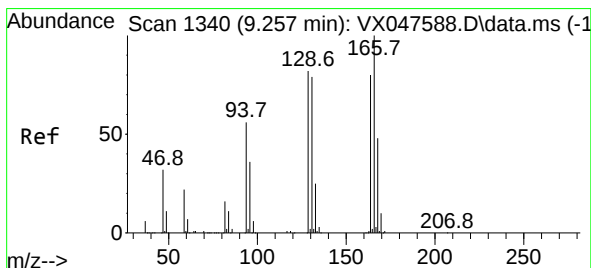
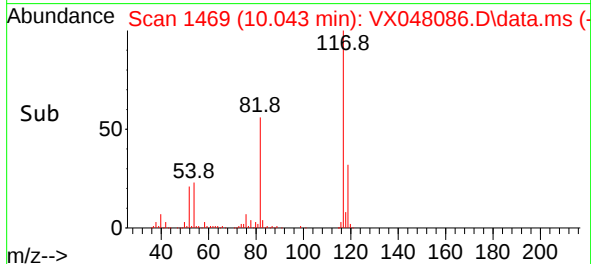
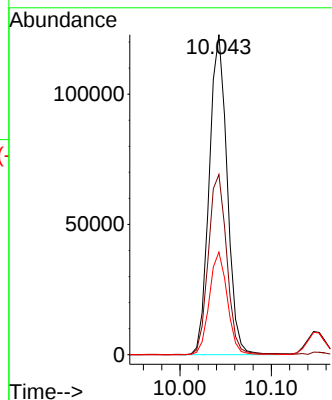
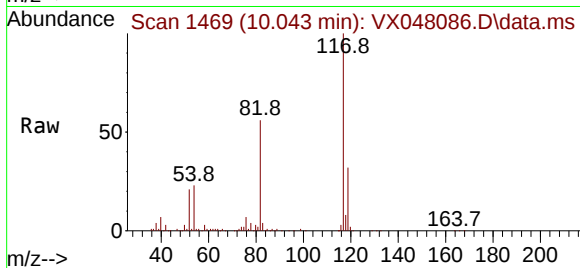
Tgt Ion:117 Resp: 167533

Ion Ratio Lower Upper

117 100

82 56.2 47.8 71.6

119 32.0 25.2 37.8



#64

Tetrachloroethene

Concen: 28880.321 ug/l

RT: 9.329 min Scan# 1352

Delta R.T. 0.073 min

Lab File: VX048086.D

Acq: 09 Oct 2025 15:01

Tgt Ion:164 Resp:31541329

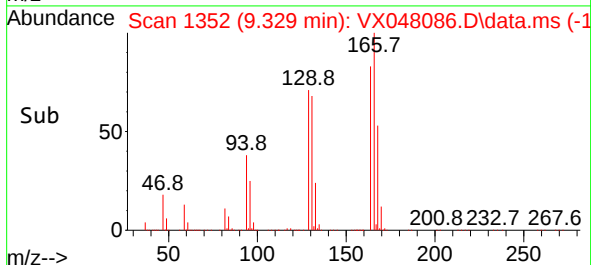
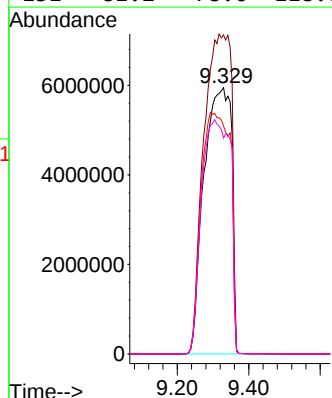
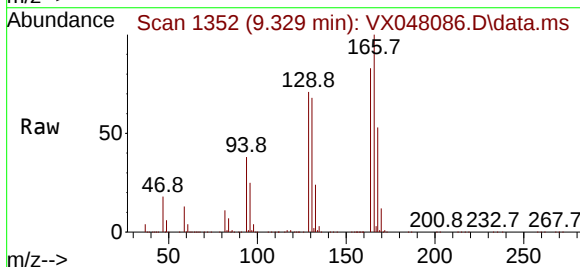
Ion Ratio Lower Upper

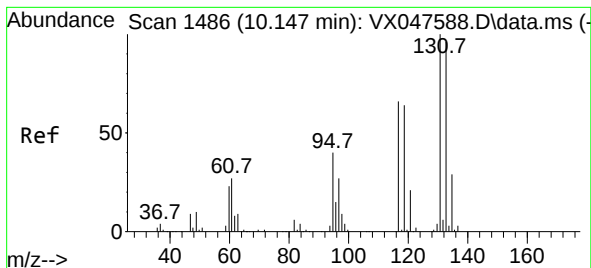
164 100

166 119.8 100.2 150.2

129 85.6 81.8 122.6

131 81.2 78.6 118.0

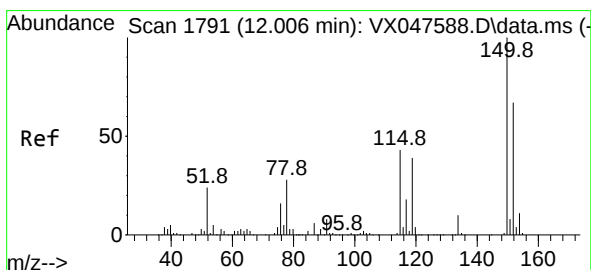
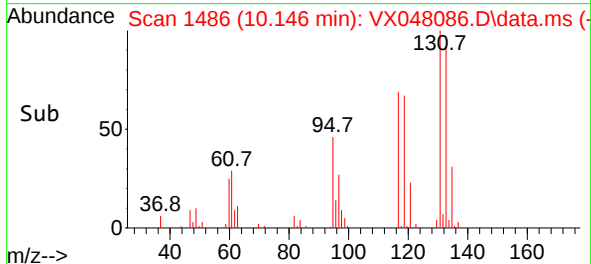
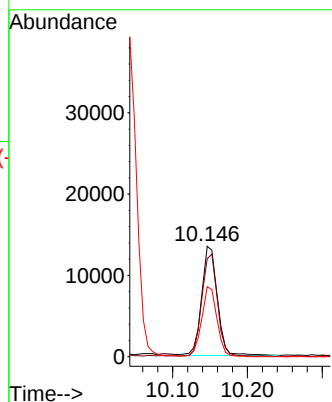
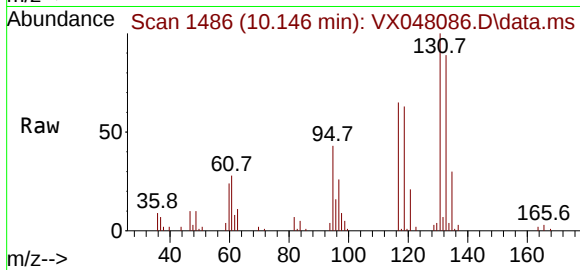




#66
 1,1,1,2-Tetrachloroethane
 Concen: 14.910 ug/l
 RT: 10.146 min Scan# 1486
 Delta R.T. -0.000 min
 Lab File: VX048086.D
 Acq: 09 Oct 2025 15:01

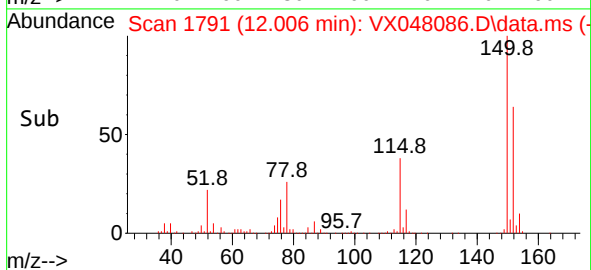
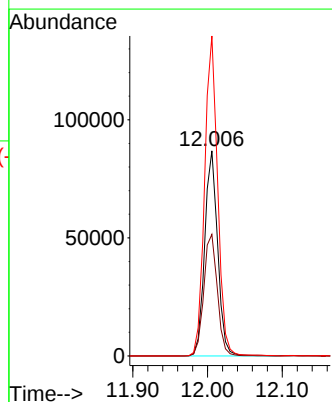
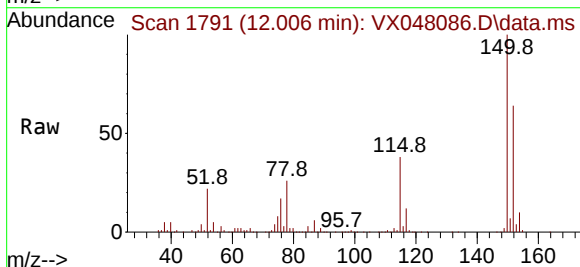
Instrument :
 MSVOA_X
 ClientSampleId :
 C-MW-3

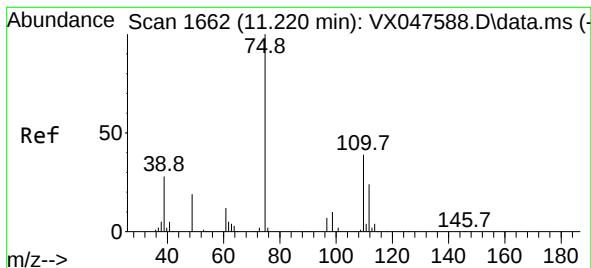
Tgt Ion:131 Resp: 19582
 Ion Ratio Lower Upper
 131 100
 133 92.2 47.3 142.0
 119 62.7 32.0 96.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX048086.D
 Acq: 09 Oct 2025 15:01

Tgt Ion:152 Resp: 104628
 Ion Ratio Lower Upper
 152 100
 115 62.1 44.9 134.5
 150 156.5 0.0 352.0

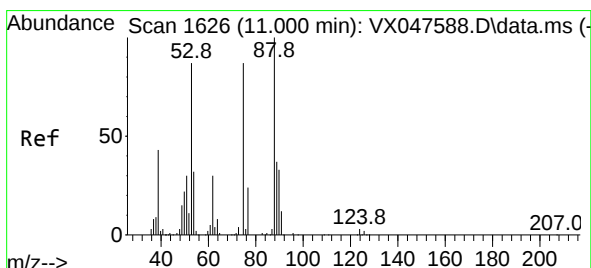
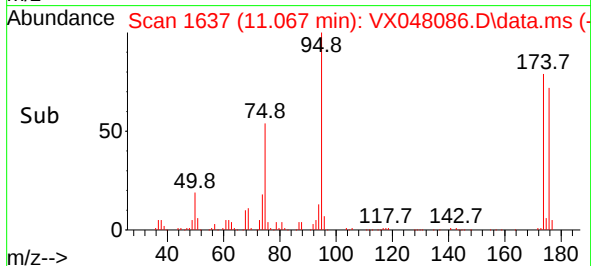
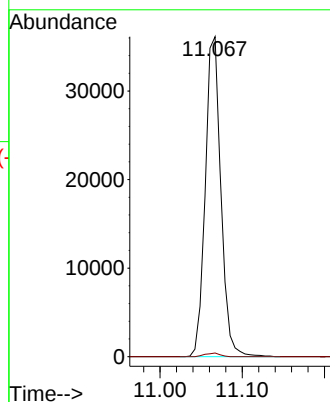
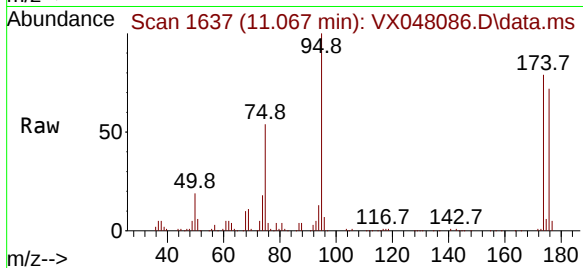




#76
1,2,3-Trichloropropane
Concen: 22.471 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. -0.153 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Instrument :
MSVOA_X
ClientSampleId :
C-MW-3

Tgt Ion: 75 Resp: 47602
Ion Ratio Lower Upper
75 100
77 1.1 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.304 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.067 min
Lab File: VX048086.D
Acq: 09 Oct 2025 15:01

Tgt Ion: 75 Resp: 47602
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#

