

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
 Data File : VX047668.D
 Acq On : 19 Sep 2025 12:29
 Operator : JC/MD
 Sample : Q3095-24RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW178I-20250910

Quant Time: Sep 20 00:30:10 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)

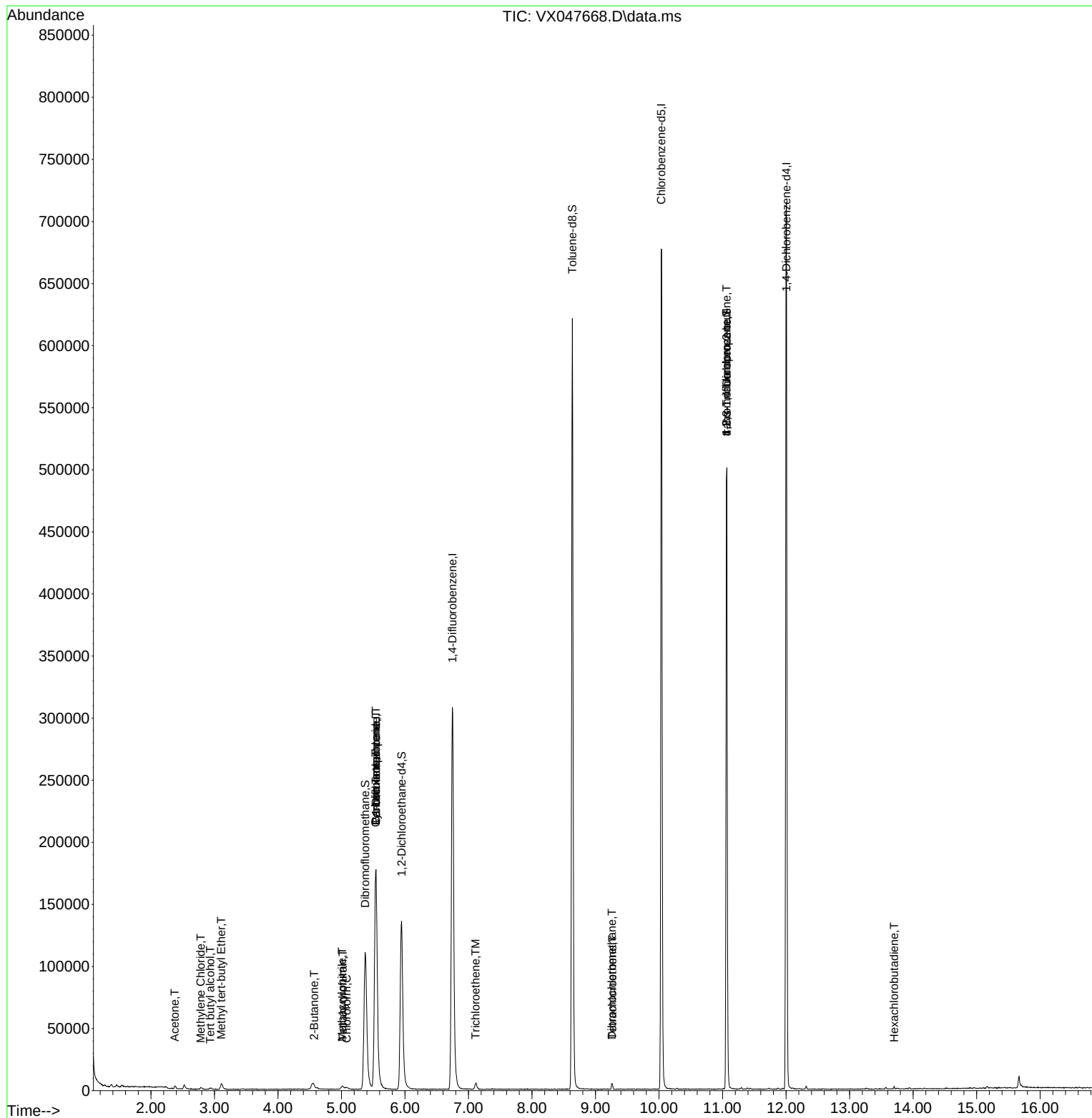
Internal Standards						
1) Pentafluorobenzene	5.544	168	181150	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	339462	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	307986	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	151965	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	147340	51.098	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	102.200%
35) Dibromofluoromethane	5.373	113	108296	47.569	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.140%
50) Toluene-d8	8.635	98	378819	48.088	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	96.180%
62) 4-Bromofluorobenzene	11.061	95	145599	48.701	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.400%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.934	59	244	0.760	ug/l #	72
16) Acetone	2.373	43	3172	2.530	ug/l #	88
19) Methyl tert-butyl Ether	3.105	73	5383	0.685	ug/l	95
20) Methylene Chloride	2.782	84	622	0.234	ug/l #	84
25) 2-Butanone	4.568	43	2436	1.558	ug/l	98
29) Tetrahydrofuran	5.019	42	2994	3.182	ug/l #	49
30) Chloroform	5.080	83	1711	0.370	ug/l	87
31) Cyclohexane	5.537	56	4169	1.094	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	15080	4.533	ug/l #	47
38) Carbon Tetrachloride	5.544	117	19479	5.389	ug/l #	17
41) Methacrylonitrile	5.007	41	1575	0.857	ug/l #	36
44) Trichloroethene	7.110	130	2187	0.895	ug/l	97
60) Dibromochloromethane	9.256	129	808	0.292	ug/l #	11
64) Tetrachloroethene	9.262	164	854	0.425	ug/l #	88
76) 1,2,3-Trichloropropane	11.061	75	76361	24.818	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	76361	63.290	ug/l #	8
94) Hexachlorobutadiene	13.701	225	338	0.304	ug/l	94

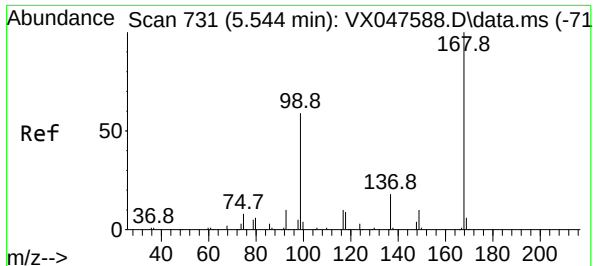
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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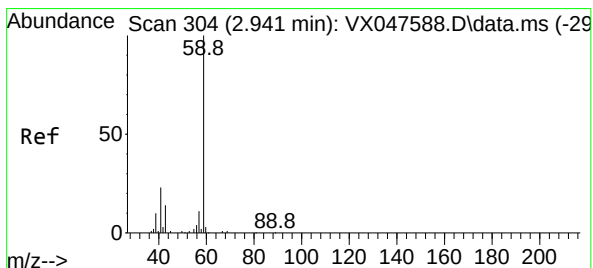
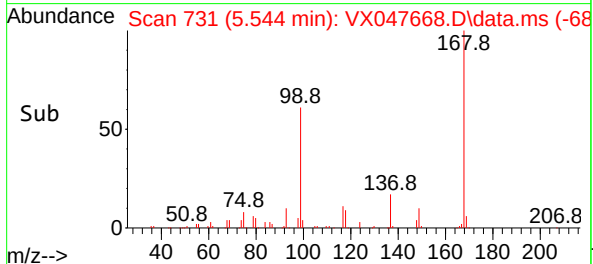
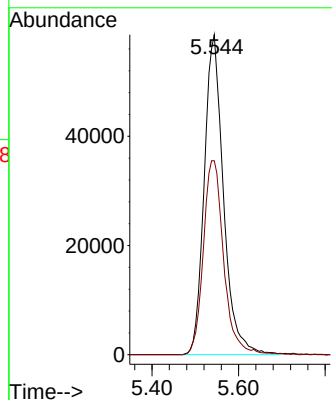
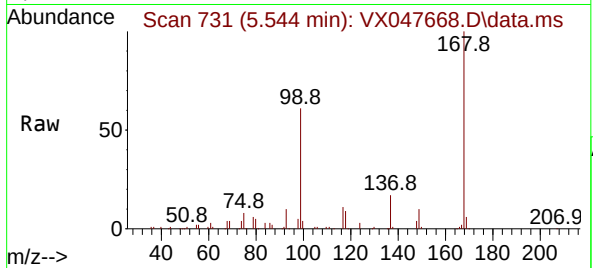




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

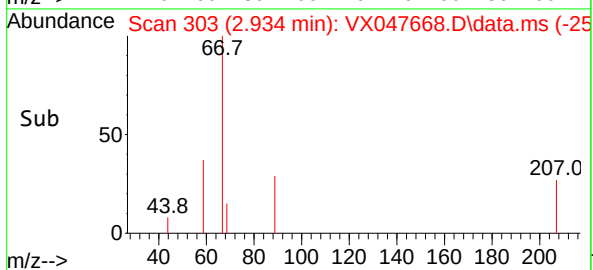
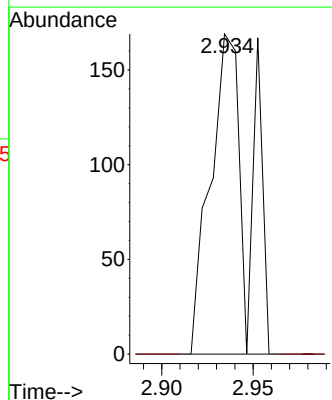
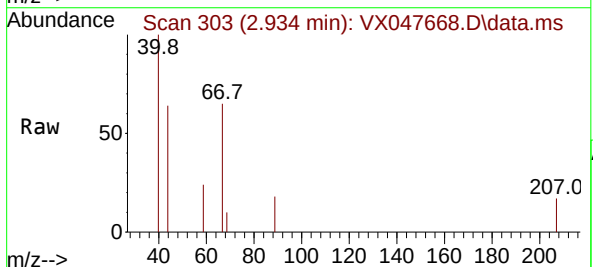
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

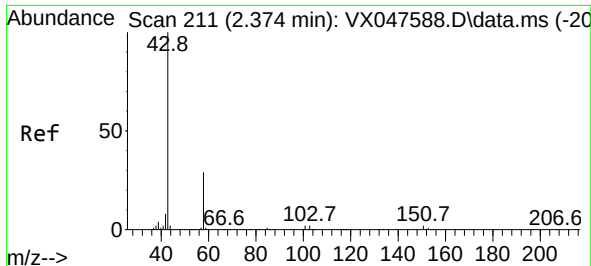
Tgt Ion:168 Resp: 181150
Ion Ratio Lower Upper
168 100
99 60.6 48.8 73.2



#11
Tert butyl alcohol
Concen: 0.760 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

Tgt Ion: 59 Resp: 244
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

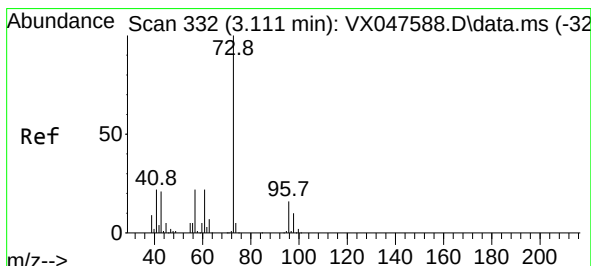
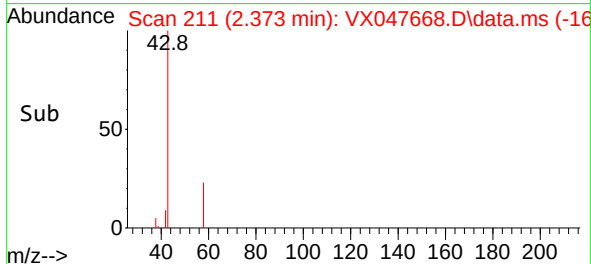
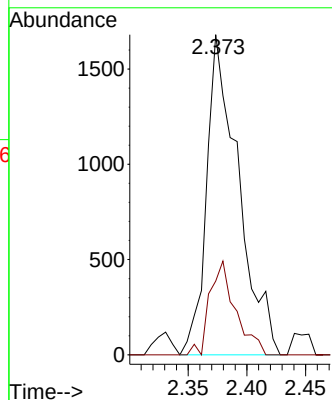
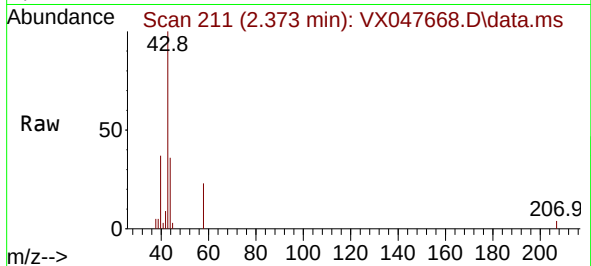




#16
Acetone
Concen: 2.530 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

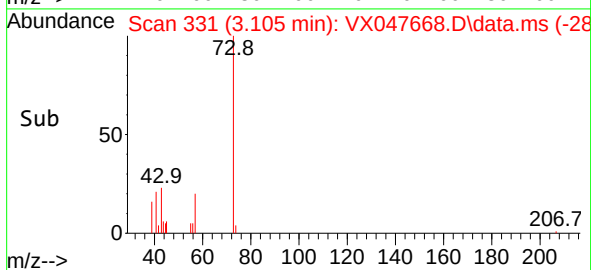
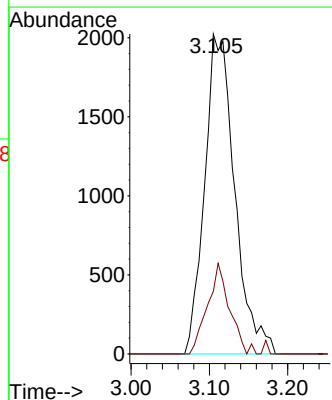
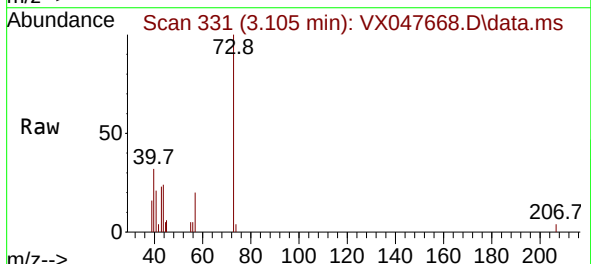
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

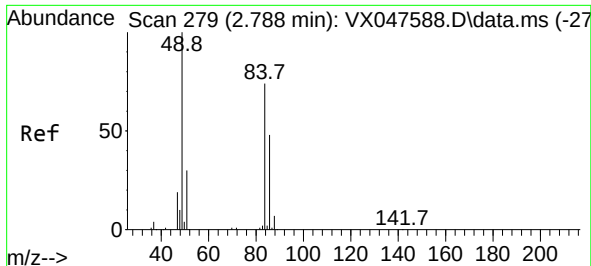
Tgt Ion: 43 Resp: 3172
Ion Ratio Lower Upper
43 100
58 23.0 23.4 35.0#



#19
Methyl tert-butyl Ether
Concen: 0.685 ug/l
RT: 3.105 min Scan# 331
Delta R.T. -0.006 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

Tgt Ion: 73 Resp: 5383
Ion Ratio Lower Upper
73 100
57 19.5 17.4 26.2

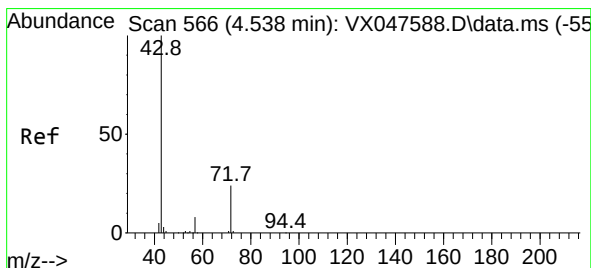
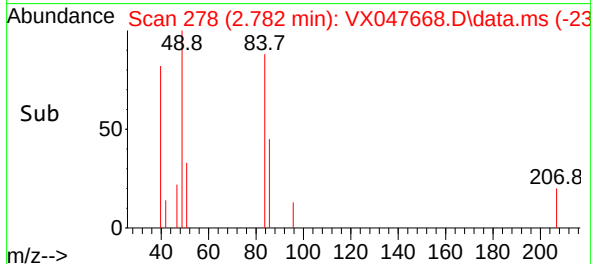
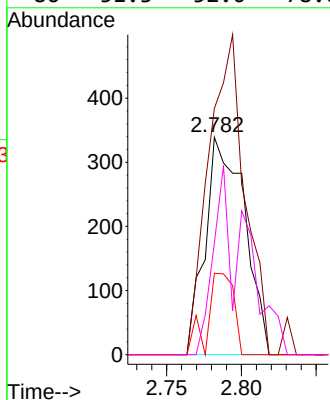
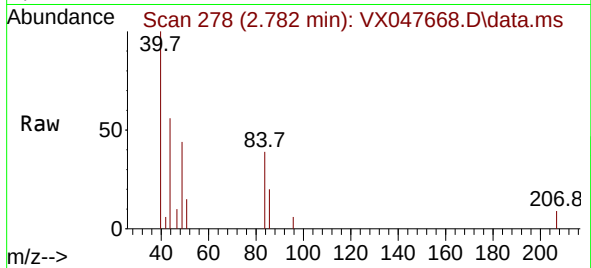




#20
Methylene Chloride
Concen: 0.234 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

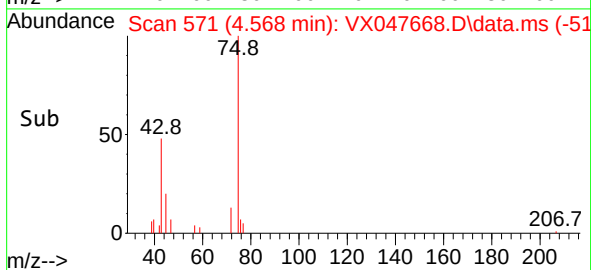
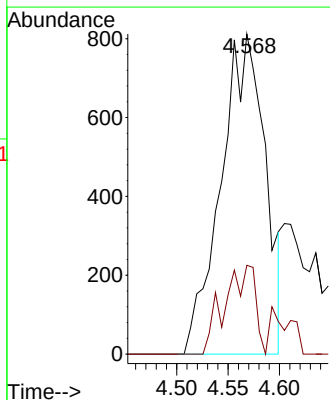
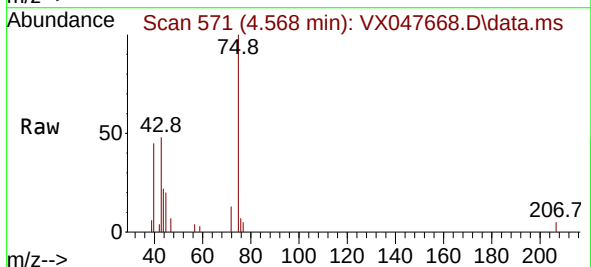
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

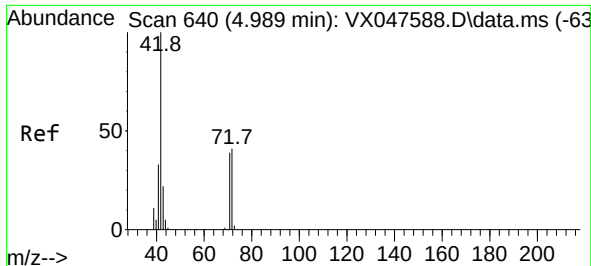
Tgt Ion: 84 Resp: 622
Ion Ratio Lower Upper
84 100
49 113.3 108.6 162.8
51 37.5 32.6 48.8
86 51.3 52.0 78.0#



#25
2-Butanone
Concen: 1.558 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.030 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

Tgt Ion: 43 Resp: 2436
Ion Ratio Lower Upper
43 100
72 25.9 20.1 30.1





#29

Tetrahydrofuran

Concen: 3.182 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.030 min

Lab File: VX047668.D

Acq: 19 Sep 2025 12:29

Instrument :

MSVOA_X

ClientSampleId :

MW178I-20250910

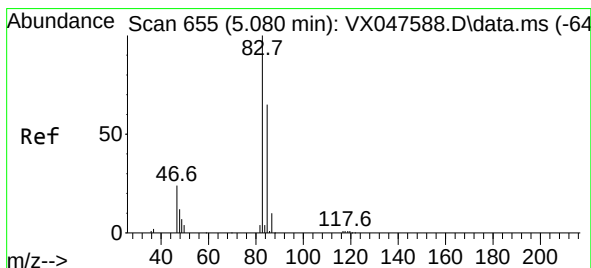
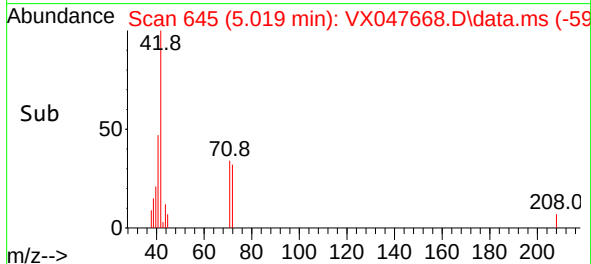
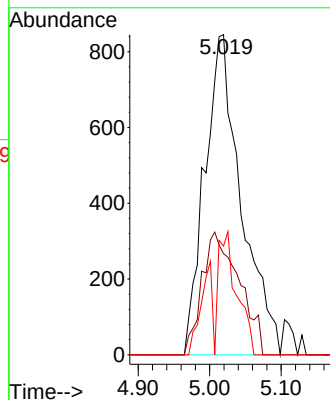
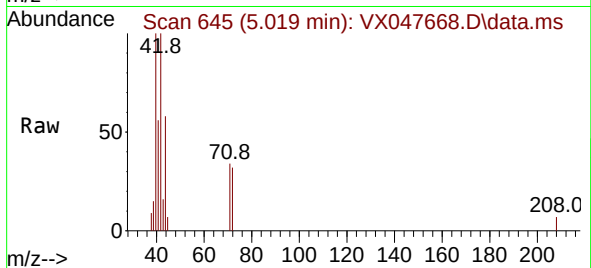
Tgt Ion: 42 Resp: 2994

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 19.4 31.9 47.9#



#30

Chloroform

Concen: 0.370 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.000 min

Lab File: VX047668.D

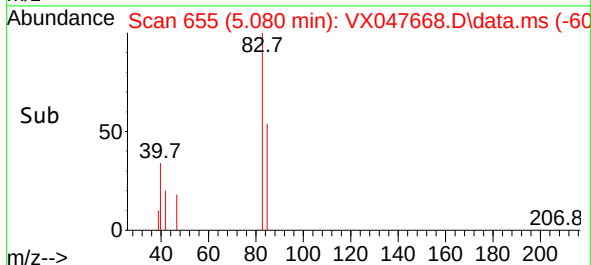
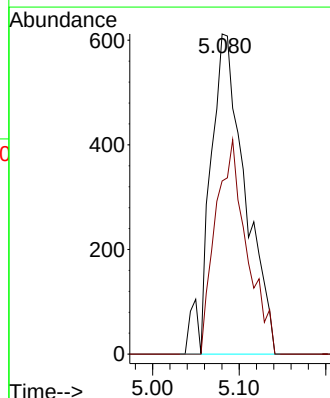
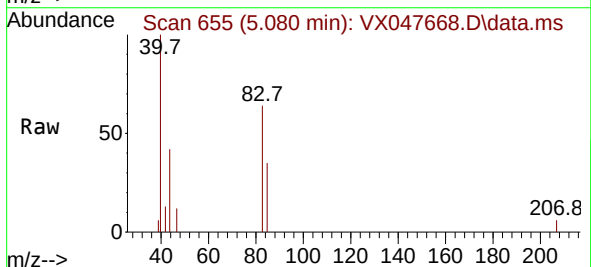
Acq: 19 Sep 2025 12:29

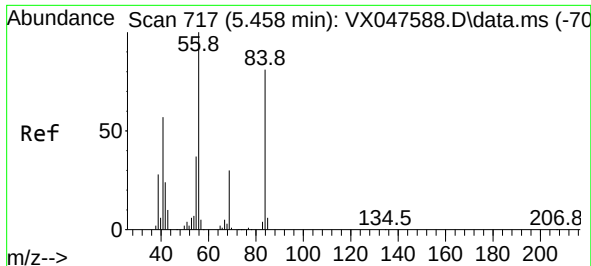
Tgt Ion: 83 Resp: 1711

Ion Ratio Lower Upper

83 100

85 54.1 51.8 77.6

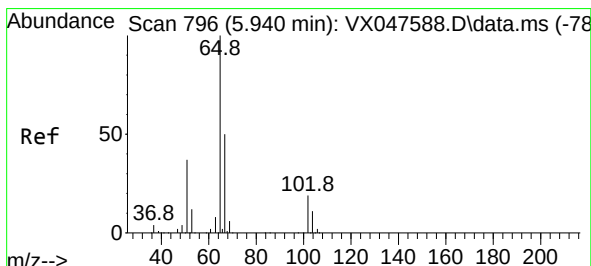
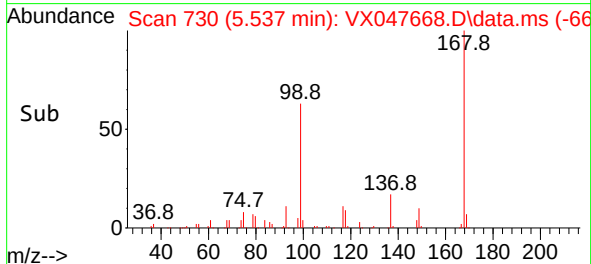
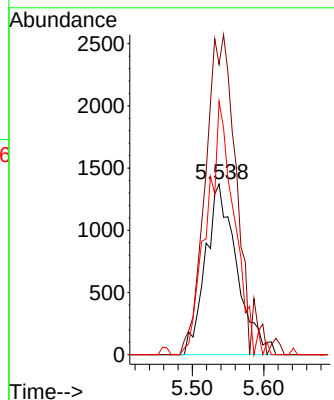
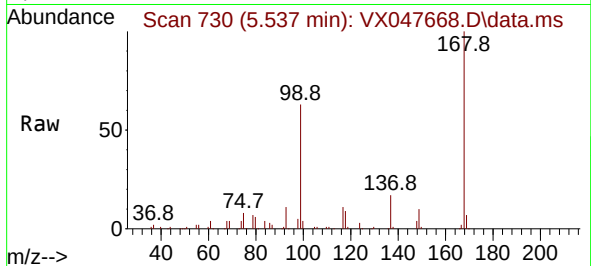




#31
Cyclohexane
Concen: 1.094 ug/l
RT: 5.537 min Scan# 717
Delta R.T. 0.079 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

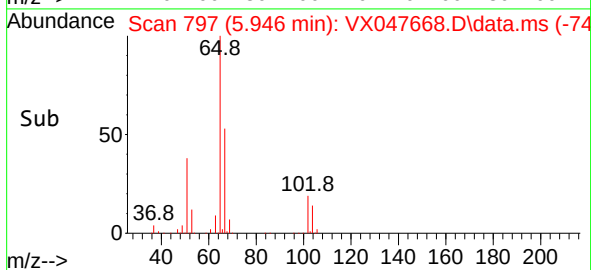
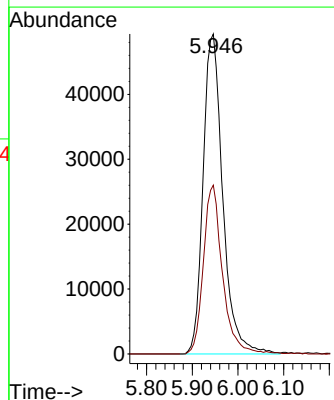
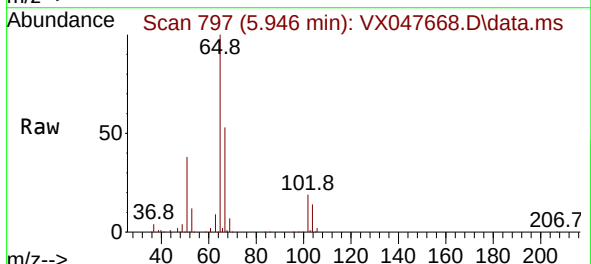
Instrument :
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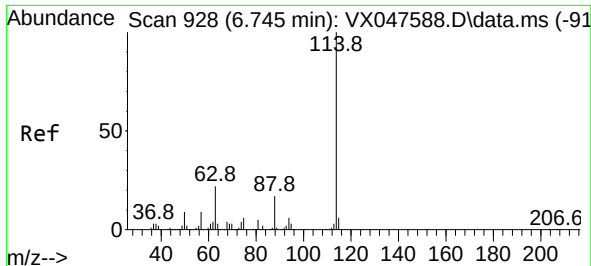
Tgt Ion: 56 Resp: 4169
Ion Ratio Lower Upper
56 100
69 170.2 23.8 35.8#
84 148.5 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 51.098 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

Tgt Ion: 65 Resp: 147340
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.0

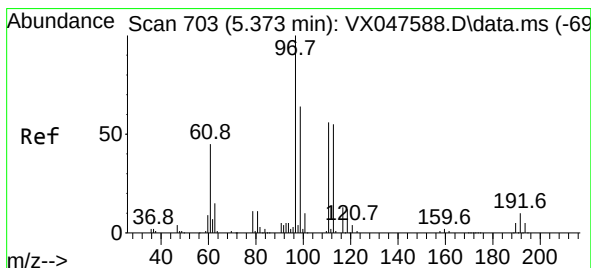
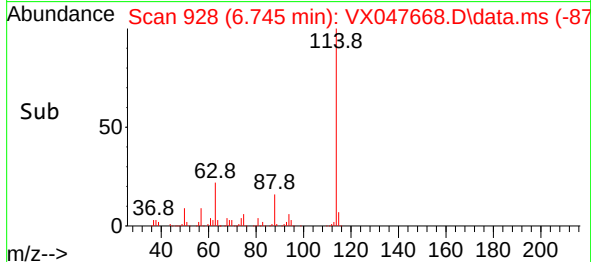
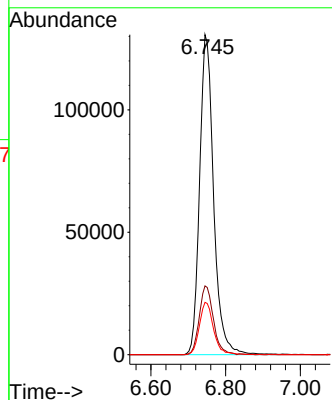
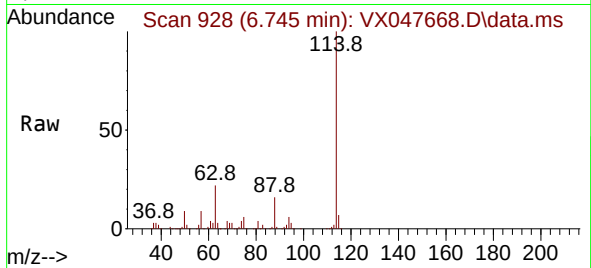




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

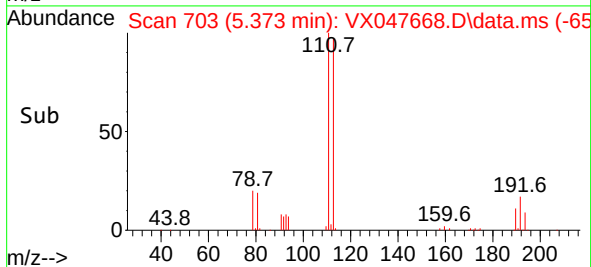
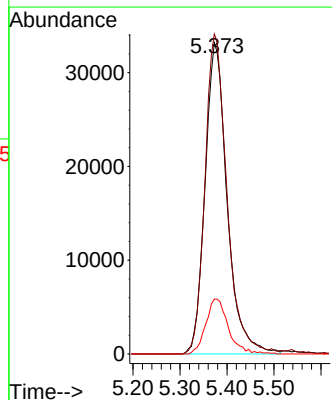
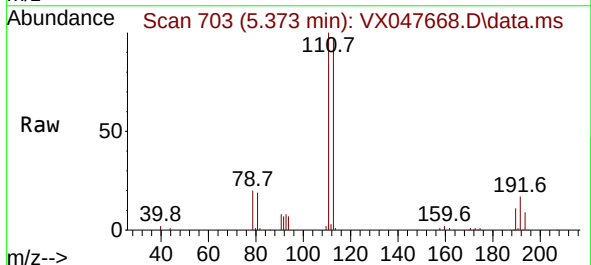
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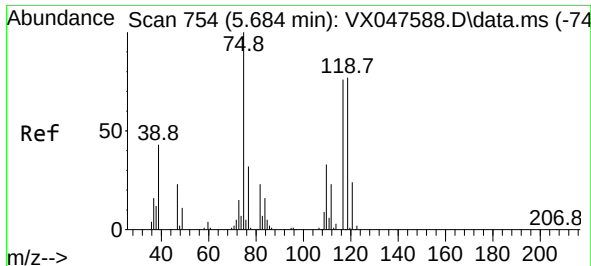
Tgt Ion:114 Resp: 339462
Ion Ratio Lower Upper
114 100
63 21.5 0.0 44.0
88 16.3 0.0 34.2



#35
Dibromofluoromethane
Concen: 47.569 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

Tgt Ion:113 Resp: 108296
Ion Ratio Lower Upper
113 100
111 102.3 80.9 121.3
192 18.1 14.2 21.4

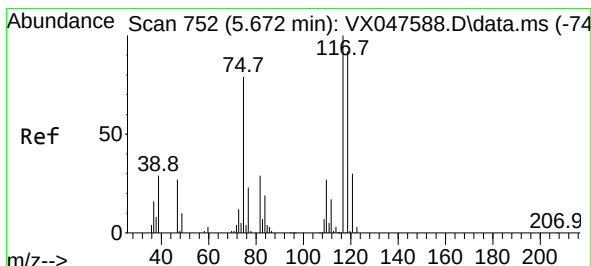
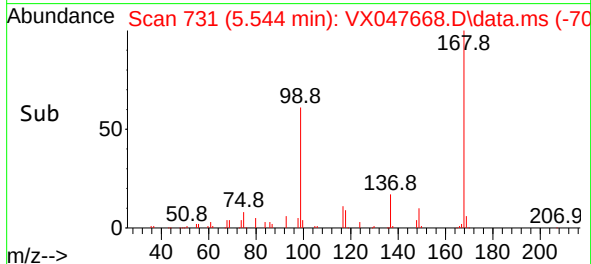
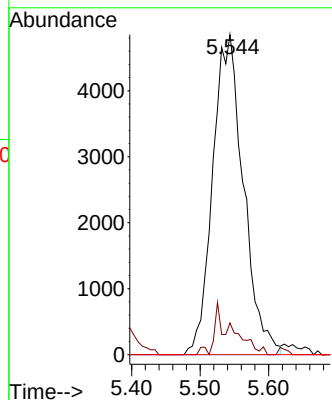
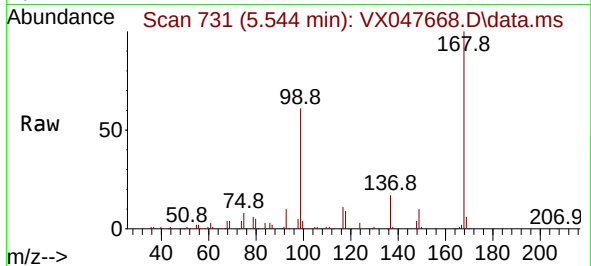




#36
1,1-Dichloropropene
Concen: 4.533 ug/l
RT: 5.544 min Scan# 711
Delta R.T. -0.140 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

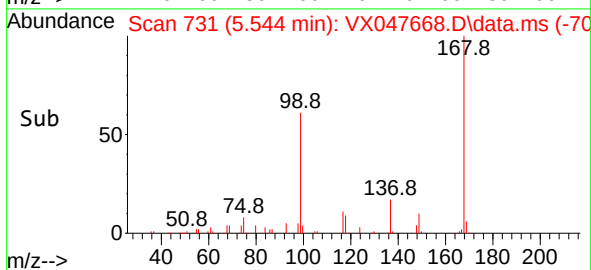
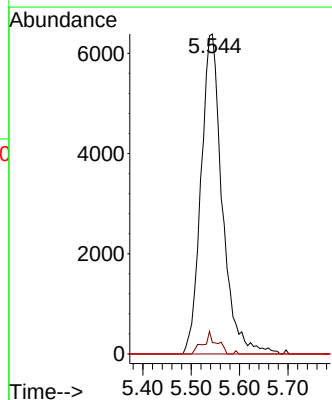
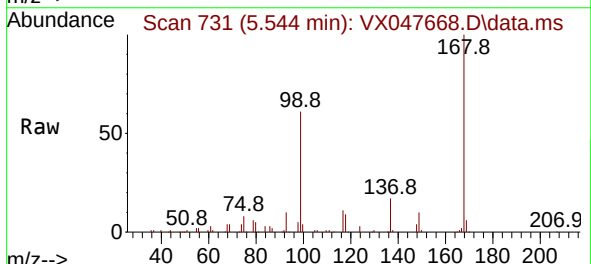
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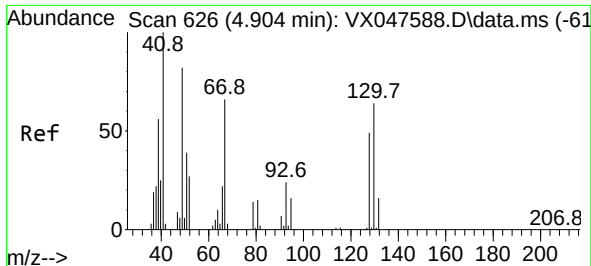
Tgt Ion: 75 Resp: 15080
Ion Ratio Lower Upper
75 100
110 4.4 16.7 50.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 5.389 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.128 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

Tgt Ion: 117 Resp: 19479
Ion Ratio Lower Upper
117 100
119 3.5 73.4 110.2#
121 0.0 23.8 35.6#

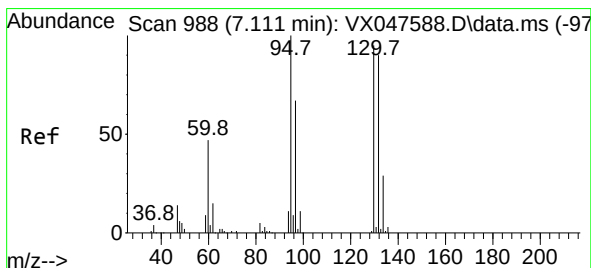
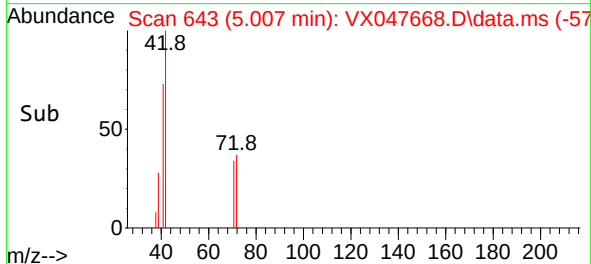
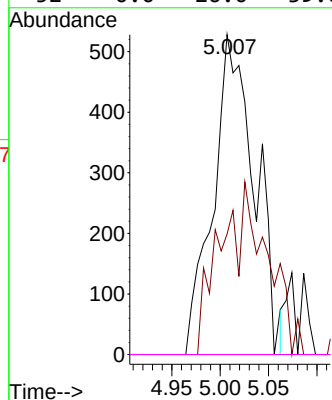
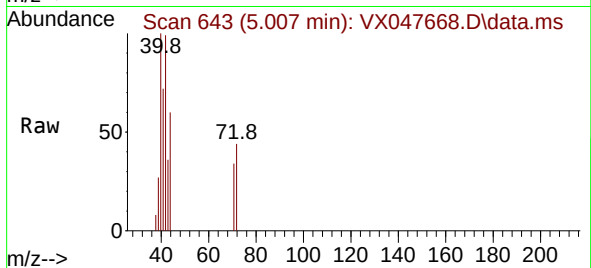




#41
Methacrylonitrile
Concen: 0.857 ug/l
RT: 5.007 min Scan# 643
Delta R.T. 0.103 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

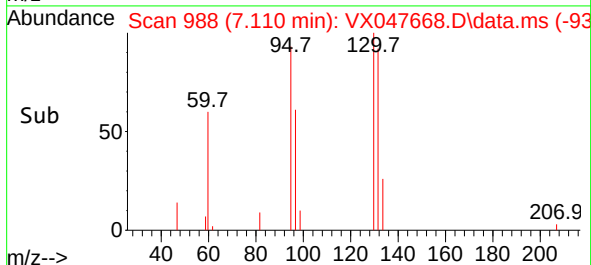
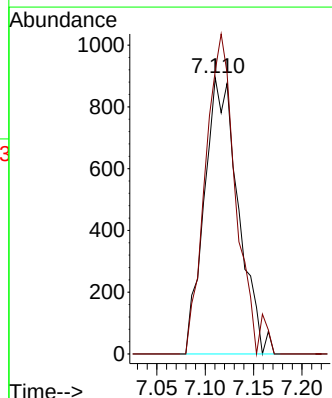
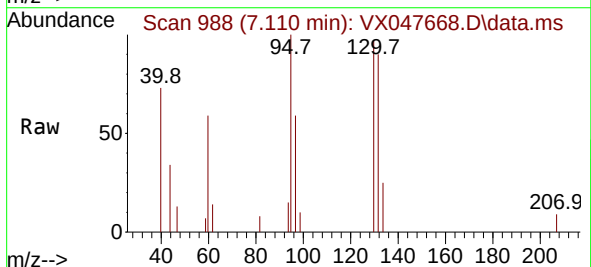
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

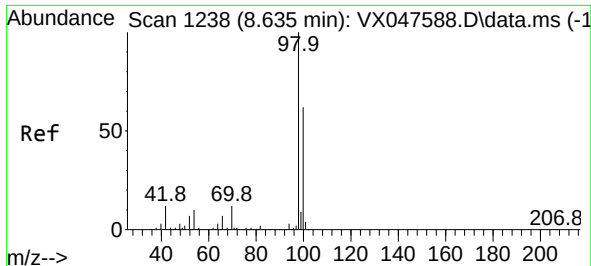
Tgt Ion:	41	Resp:	1575
Ion	Ratio	Lower	Upper
41	100		
39	27.6	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#



#44
Trichloroethene
Concen: 0.895 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

Tgt Ion:	130	Resp:	2187
Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	210.8

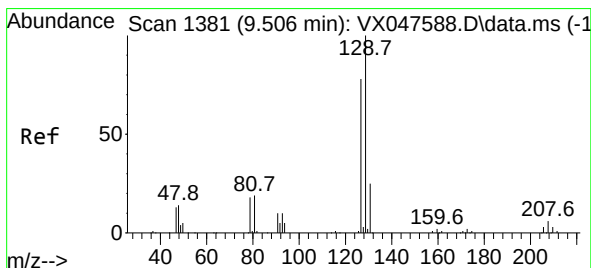
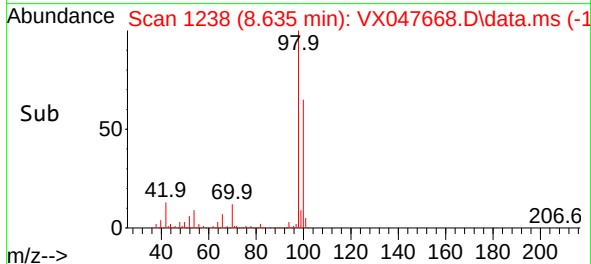
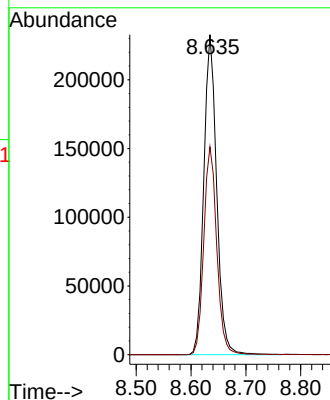
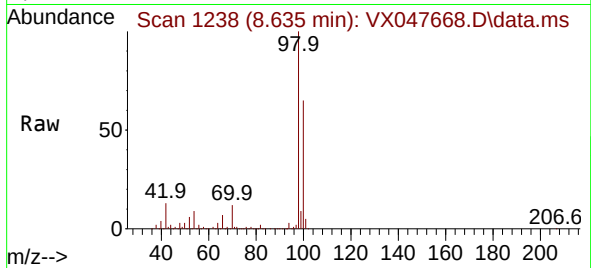




#50
Toluene-d8
Concen: 48.088 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

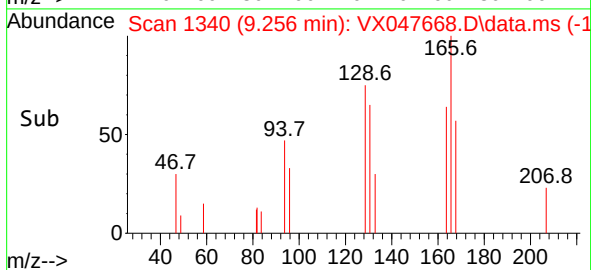
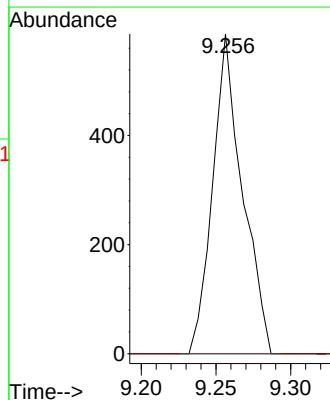
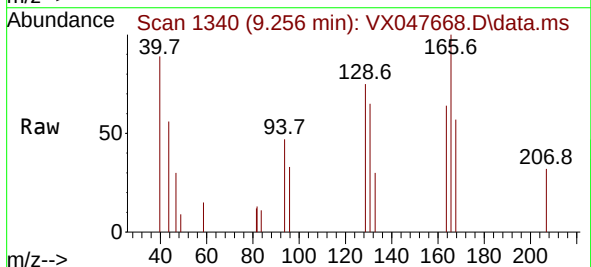
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

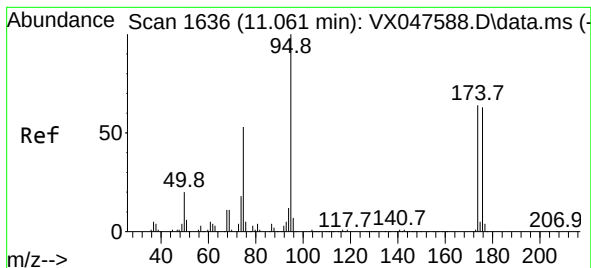
Tgt Ion: 98 Resp: 378819
Ion Ratio Lower Upper
98 100
100 65.6 53.0 79.4



#60
Dibromochloromethane
Concen: 0.292 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.250 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

Tgt Ion:129 Resp: 808
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#

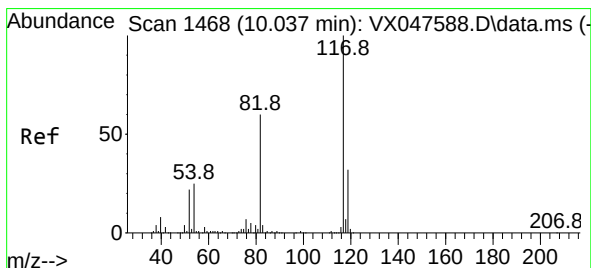
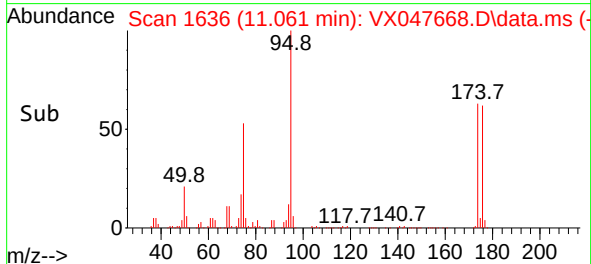
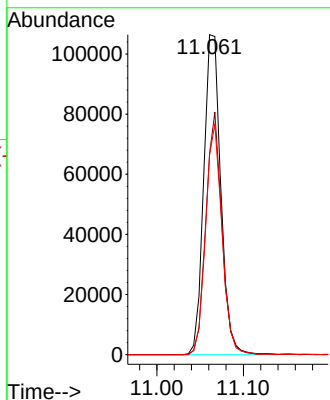
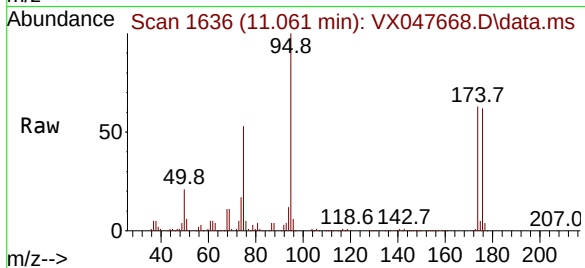




#62
4-Bromofluorobenzene
Concen: 48.701 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

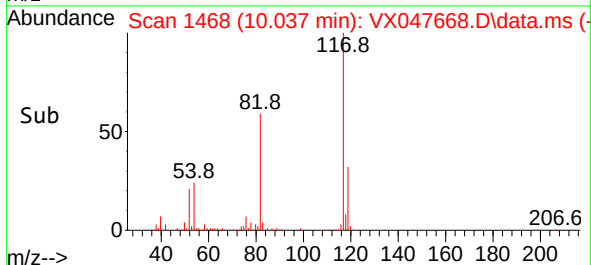
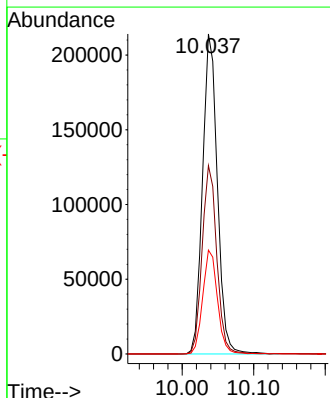
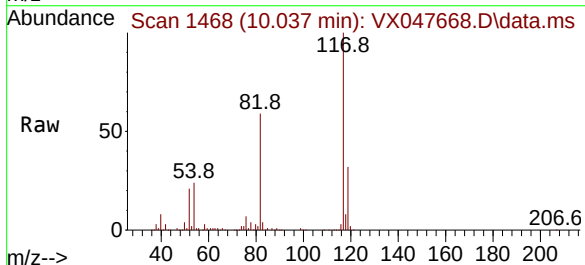
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

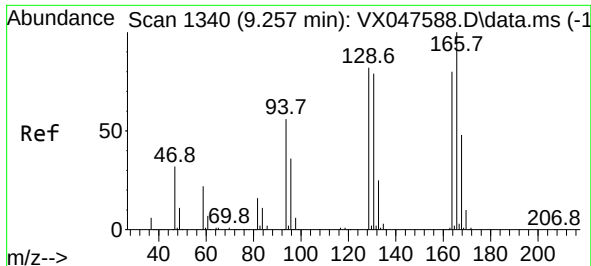
Tgt Ion: 95 Resp: 145599
Ion Ratio Lower Upper
95 100
174 71.4 0.0 141.6
176 69.2 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047668.D
Acq: 19 Sep 2025 12:29

Tgt Ion: 117 Resp: 307986
Ion Ratio Lower Upper
117 100
82 58.9 47.8 71.6
119 32.4 25.2 37.8



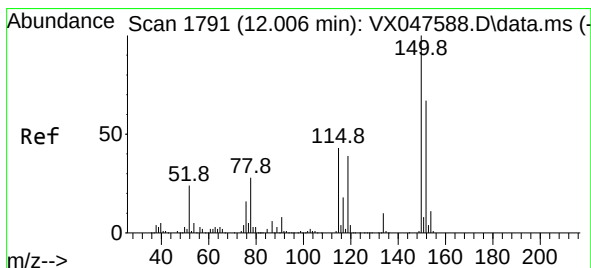
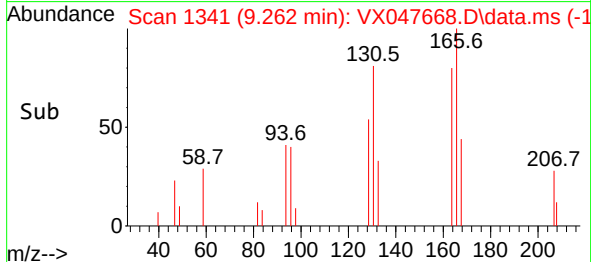
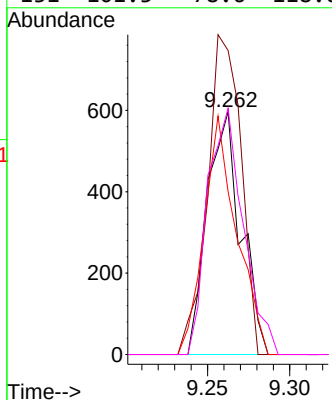
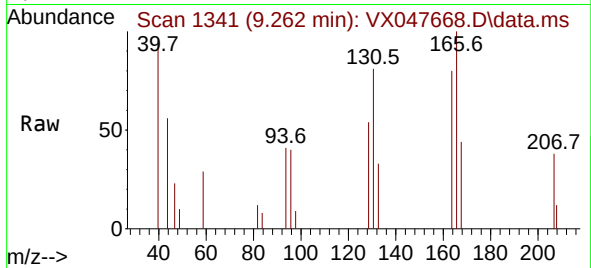


#64
 Tetrachloroethene
 Concen: 0.425 ug/l
 RT: 9.262 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX047668.D
 Acq: 19 Sep 2025 12:29

Instrument :
 MSVOA_X
 ClientSampleId :
 MW178I-20250910

Tgt Ion:164 Resp: 854

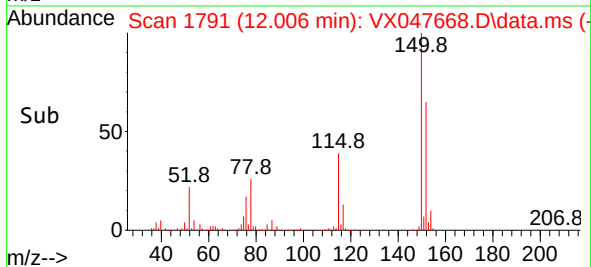
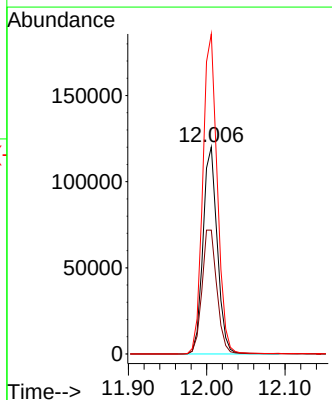
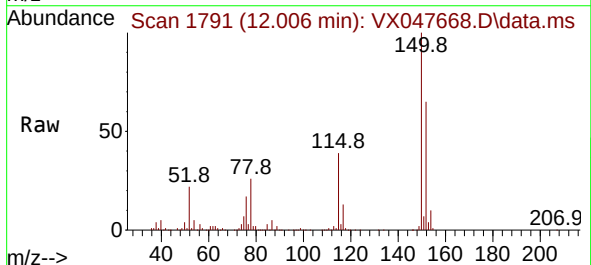
Ion	Ratio	Lower	Upper
164	100		
166	125.1	100.2	150.2
129	67.0	81.8	122.6#
131	101.3	78.6	118.0

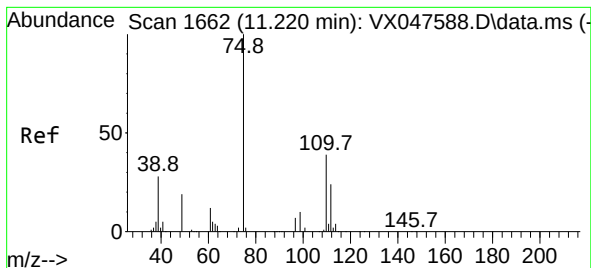


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX047668.D
 Acq: 19 Sep 2025 12:29

Tgt Ion:152 Resp: 151965

Ion	Ratio	Lower	Upper
152	100		
115	62.4	44.9	134.5
150	156.8	0.0	352.0





#76

1,2,3-Trichloropropane

Concen: 24.818 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX047668.D

Acq: 19 Sep 2025 12:29

Instrument :

MSVOA_X

ClientSampleId :

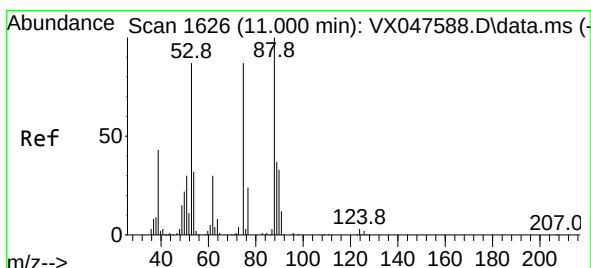
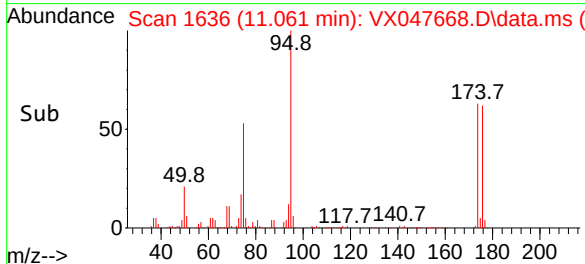
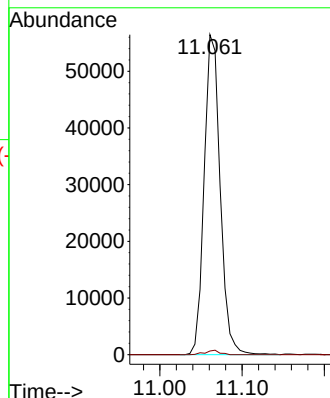
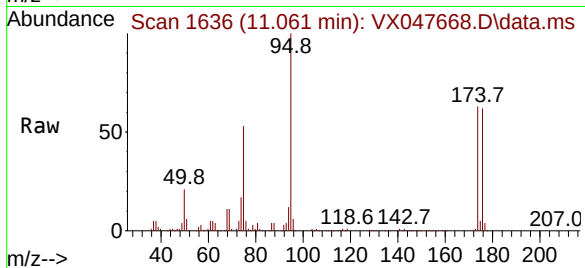
MW178I-20250910

Tgt Ion: 75 Resp: 76361

Ion Ratio Lower Upper

75 100

77 1.2 18.8 56.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.290 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.061 min

Lab File: VX047668.D

Acq: 19 Sep 2025 12:29

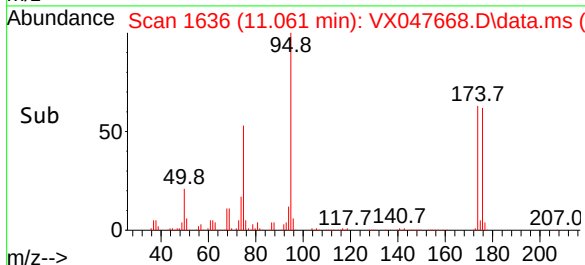
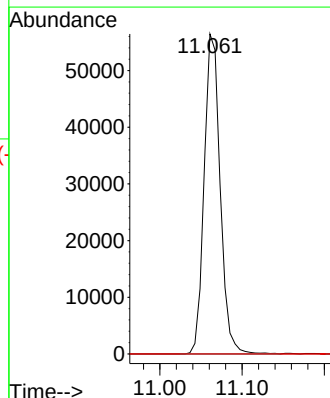
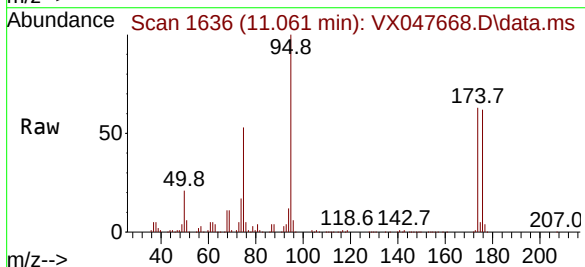
Tgt Ion: 75 Resp: 76361

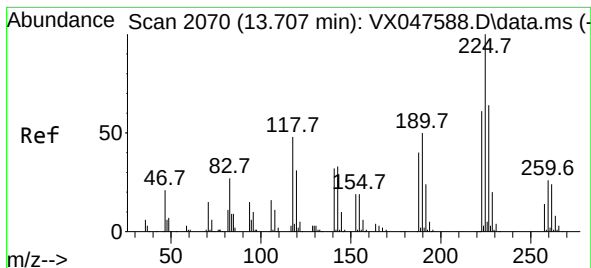
Ion Ratio Lower Upper

75 100

53 0.0 83.4 125.2#

89 0.0 36.3 54.5#





#94

Hexachlorobutadiene

Concen: 0.304 ug/l

RT: 13.701 min Scan# 20

Delta R.T. -0.006 min

Lab File: VX047668.D

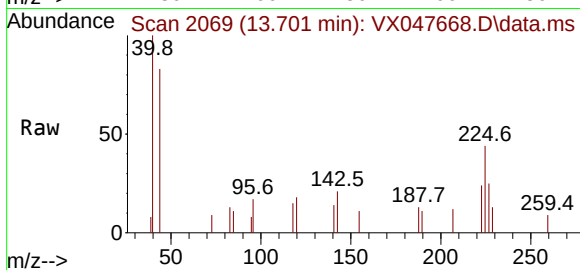
Acq: 19 Sep 2025 12:29

Instrument :

MSVOA_X

ClientSampleId :

MW178I-20250910



Tgt Ion:225 Resp: 338

Ion Ratio Lower Upper

225 100

223 55.6 31.7 95.1

227 65.7 32.0 96.0

