

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047616.D
 Acq On : 17 Sep 2025 14:27
 Operator : JC/MD
 Sample : Q3095-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW17811-20250909

Quant Time: Sep 22 03:07:34 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

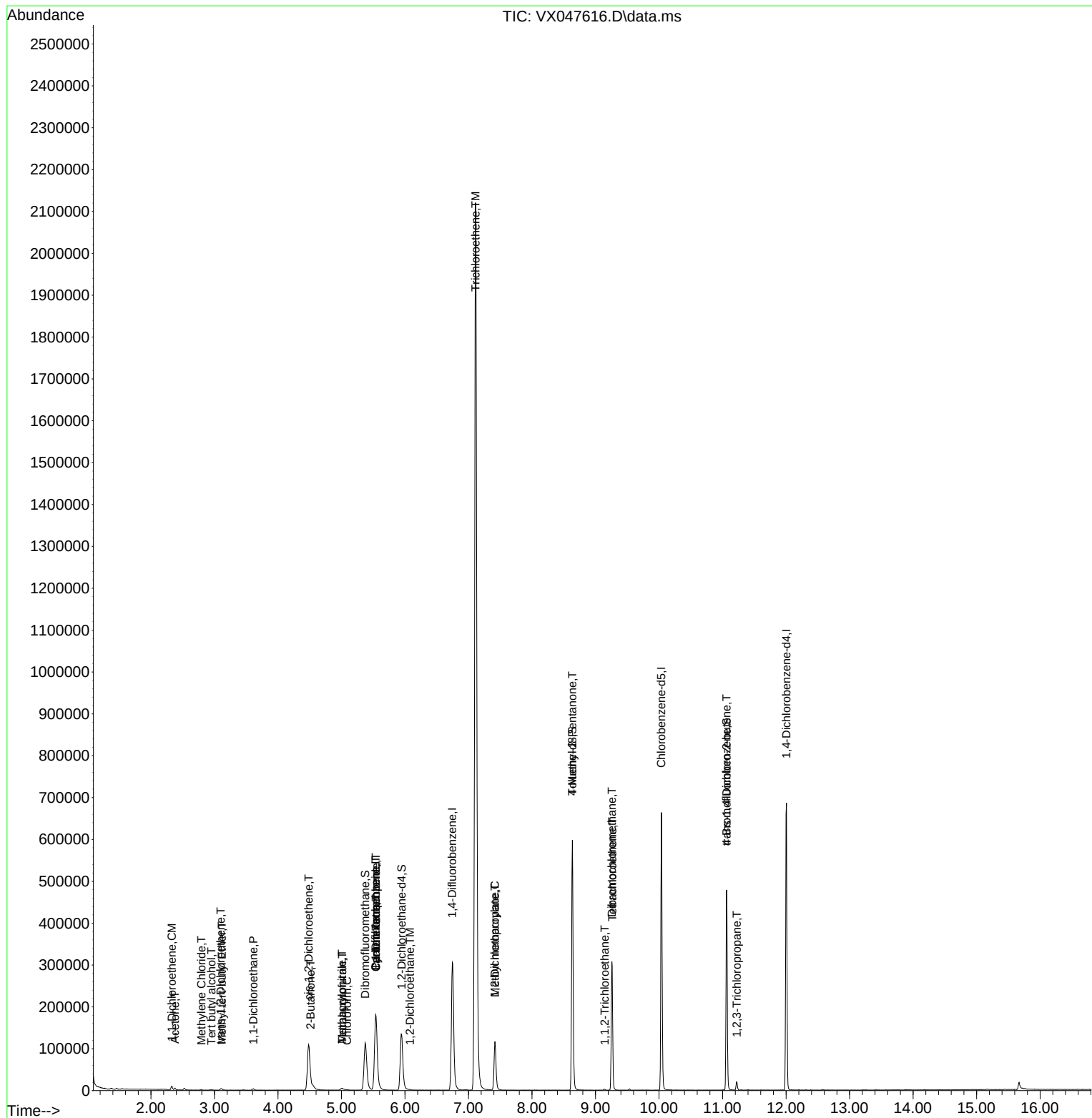
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	179708	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	333636	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	295278	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	144330	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	149765	52.356	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 104.720%	
35) Dibromofluoromethane	5.373	113	108938	48.686	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 97.380%	
50) Toluene-d8	8.635	98	361127	46.643	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 93.280%	
62) 4-Bromofluorobenzene	11.061	95	141872	48.283	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 96.560%	
Target Compounds						Qvalue
11) Tert butyl alcohol	2.953	59	454	1.425	ug/l #	72
12) 1,1-Dichloroethene	2.331	96	3509	1.643	ug/l	98
16) Acetone	2.380	43	5034	4.047	ug/l #	86
19) Methyl tert-butyl Ether	3.117	73	3025	0.388	ug/l #	88
20) Methylene Chloride	2.794	84	846	0.321	ug/l #	69
21) trans-1,2-Dichloroethene	3.099	96	921	0.401	ug/l #	79
24) 1,1-Dichloroethane	3.611	63	4188	0.923	ug/l #	92
25) 2-Butanone	4.513	43	383	0.247	ug/l #	83
27) cis-1,2-Dichloroethene	4.483	96	75933	26.973	ug/l	91
29) Tetrahydrofuran	5.013	42	5234	5.608	ug/l #	88
30) Chloroform	5.086	83	1116	0.243	ug/l	90
31) Cyclohexane	5.544	56	4052	1.072	ug/l #	1
36) 1,1-Dichloropropene	5.538	75	15171	4.640	ug/l #	50
38) Carbon Tetrachloride	5.544	117	19445	5.474	ug/l #	17
41) Methacrylonitrile	5.007	41	2934	1.623	ug/l #	42
42) 1,2-Dichloroethane	6.080	62	844	0.223	ug/l #	76
44) Trichloroethene	7.111	130	877789	365.617	ug/l	97
45) 1,2-Dichloropropane	7.415	63	49410	19.431	ug/l	96
48) Methyl methacrylate	7.415	41	27483	9.610	ug/l #	37
51) 4-Methyl-2-Pentanone	8.635	43	1749	0.549	ug/l #	1
55) 1,1,2-Trichloroethane	9.147	97	744	0.315	ug/l #	68
60) Dibromochloromethane	9.256	129	59838	22.013	ug/l #	11
64) Tetrachloroethene	9.263	164	59031	30.667	ug/l	97
76) 1,2,3-Trichloropropane	11.226	75	7457	2.552	ug/l	87
81) trans-1,4-Dichloro-2-b...	11.061	75	72576	63.335	ug/l #	8

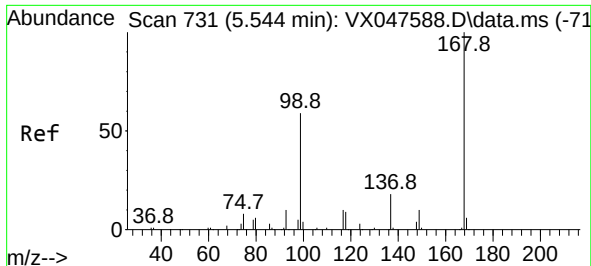
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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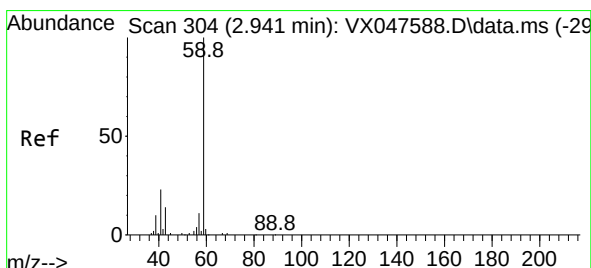
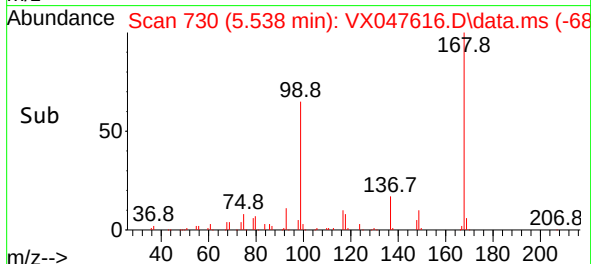
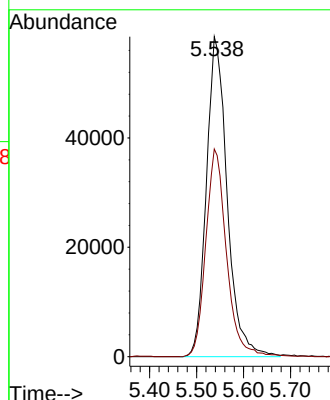
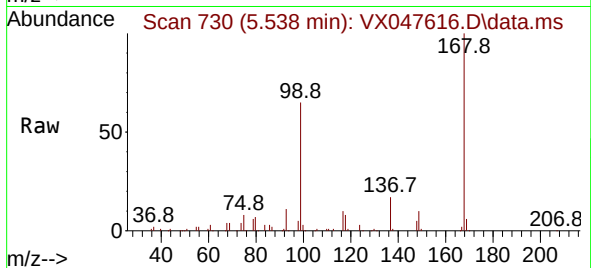




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

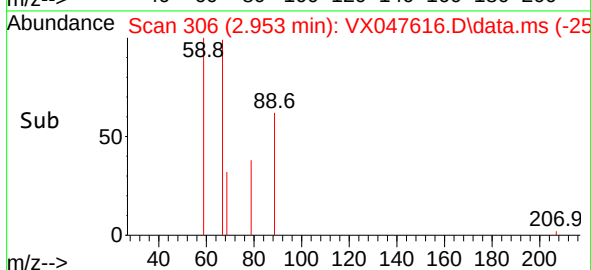
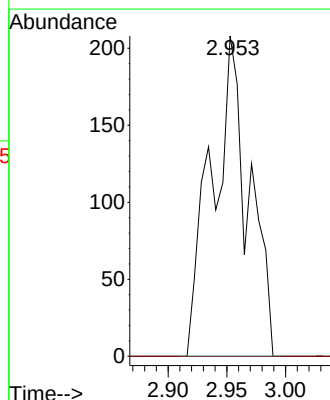
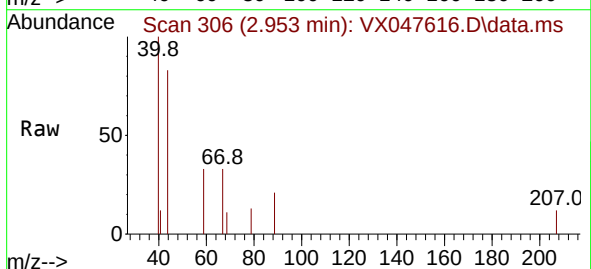
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20250909

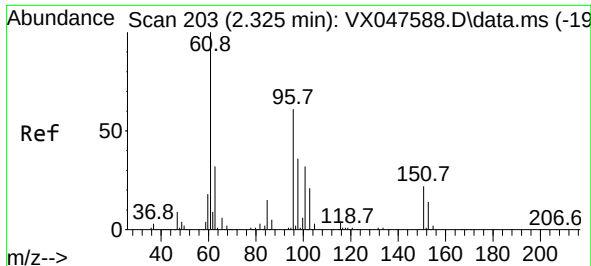
Tgt Ion:168 Resp: 179708
Ion Ratio Lower Upper
168 100
99 64.9 48.8 73.2



#11
Tert butyl alcohol
Concen: 1.425 ug/l
RT: 2.953 min Scan# 306
Delta R.T. 0.012 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion: 59 Resp: 454
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

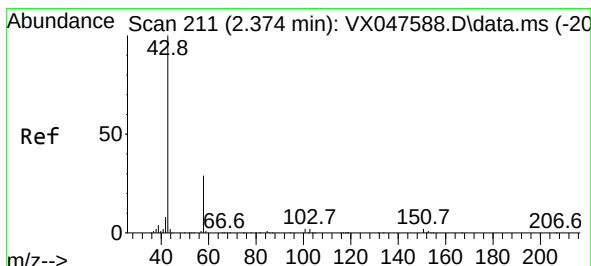
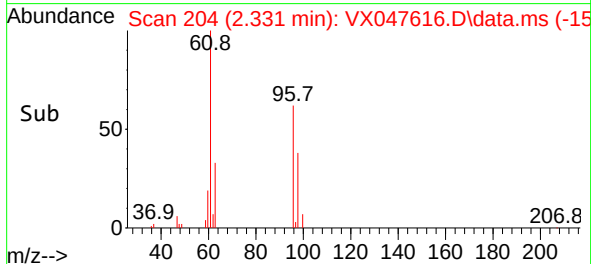
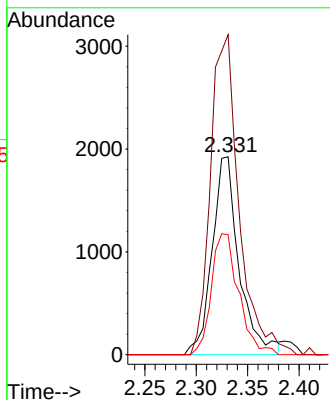
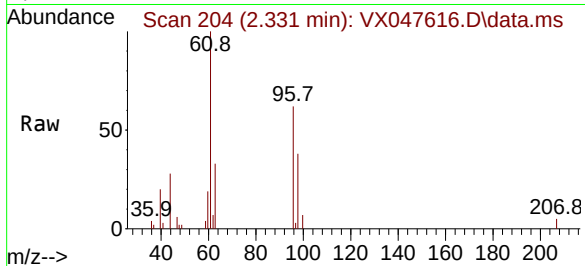




#12
1,1-Dichloroethene
Concen: 1.643 ug/l
RT: 2.331 min Scan# 203
Delta R.T. 0.006 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

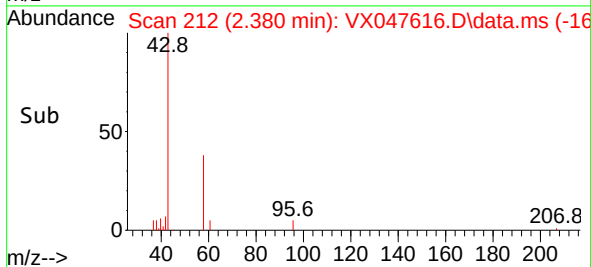
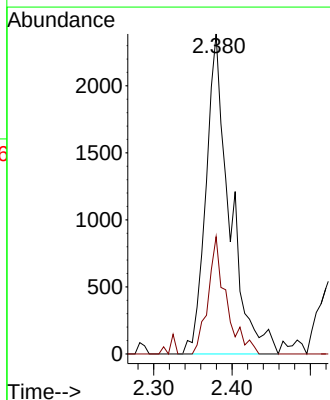
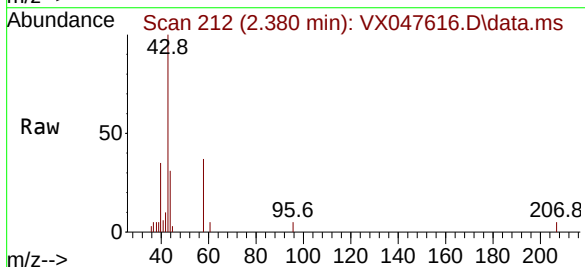
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20250909

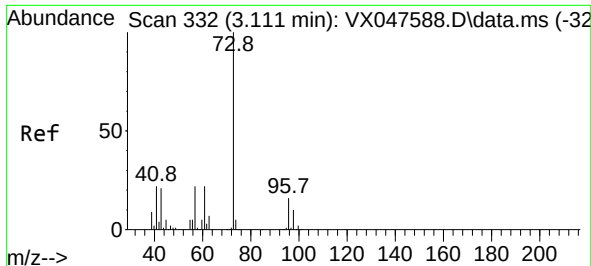
Tgt Ion: 96 Resp: 3509
Ion Ratio Lower Upper
96 100
61 161.7 131.0 196.6
98 60.7 47.7 71.5



#16
Acetone
Concen: 4.047 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion: 43 Resp: 5034
Ion Ratio Lower Upper
43 100
58 36.7 23.4 35.0#

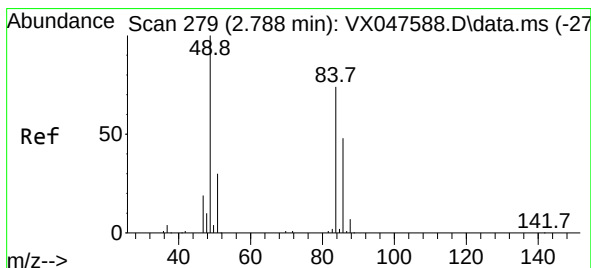
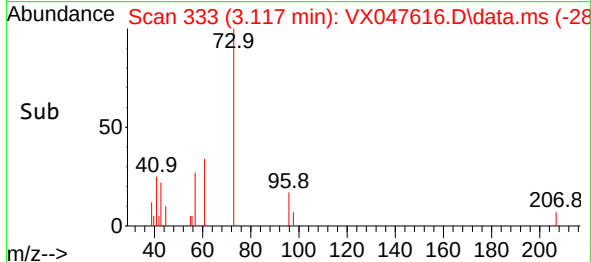
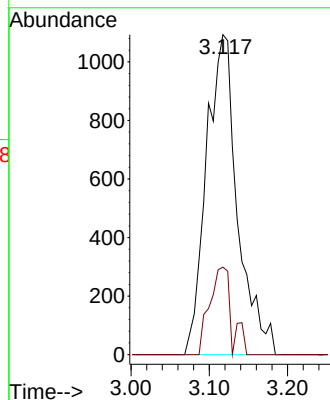
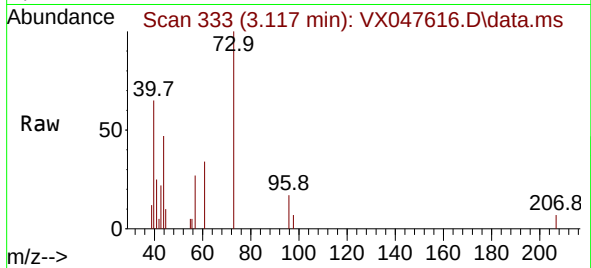




#19
Methyl tert-butyl Ether
Concen: 0.388 ug/l
RT: 3.117 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

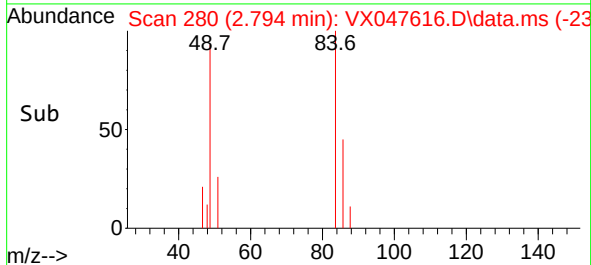
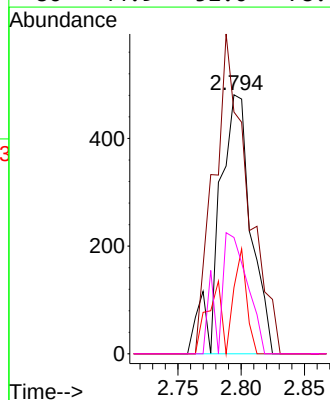
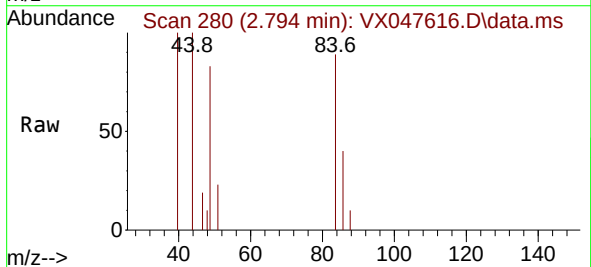
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20250909

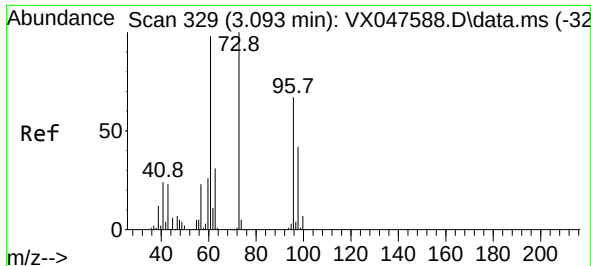
Tgt Ion: 73 Resp: 3025
Ion Ratio Lower Upper
73 100
57 27.4 17.4 26.2#



#20
Methylene Chloride
Concen: 0.321 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion: 84 Resp: 846
Ion Ratio Lower Upper
84 100
49 93.3 108.6 162.8#
51 25.6 32.6 48.8#
86 44.9 52.0 78.0#

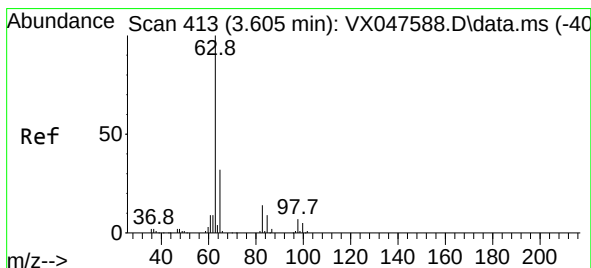
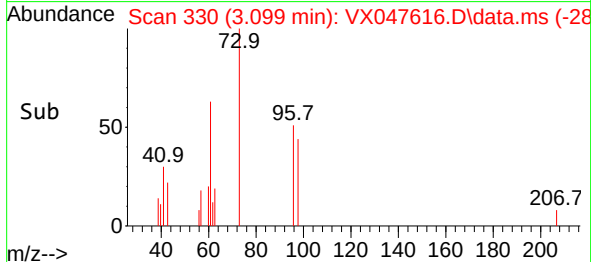
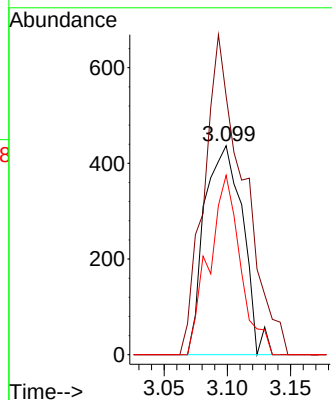
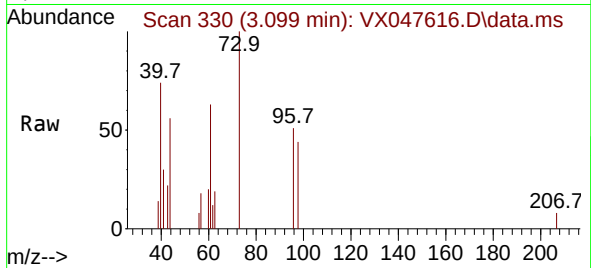




#21
trans-1,2-Dichloroethene
Concen: 0.401 ug/l
RT: 3.099 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

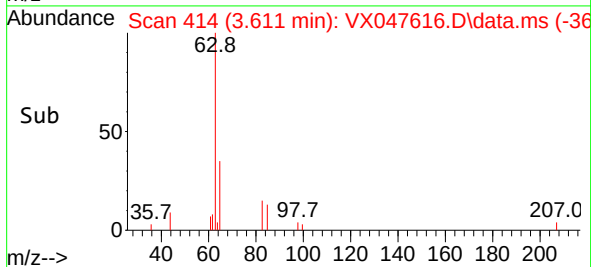
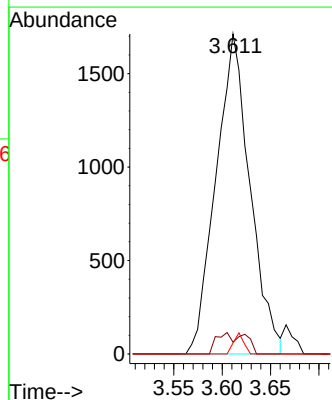
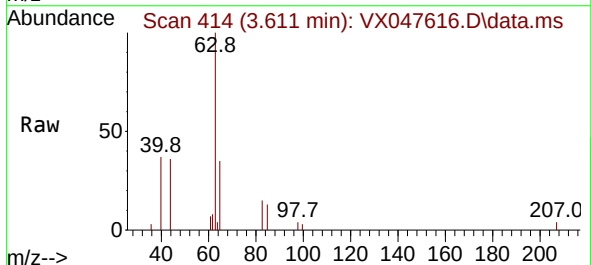
Instrument :
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ClientSampleId :
MW17811-20250909

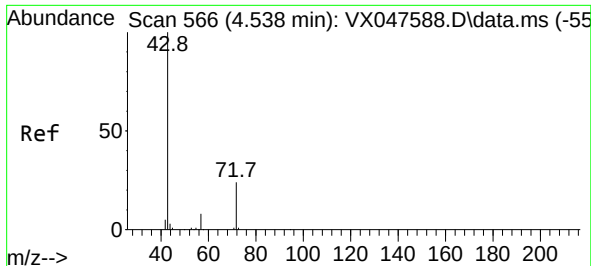
Tgt Ion: 96 Resp: 921
Ion Ratio Lower Upper
96 100
61 123.8 116.2 174.2
98 85.8 49.3 73.9#



#24
1,1-Dichloroethane
Concen: 0.923 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion: 63 Resp: 4188
Ion Ratio Lower Upper
63 100
98 3.7 3.8 11.2#
100 3.4 2.3 6.9

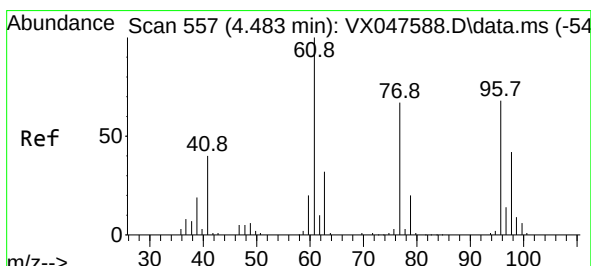
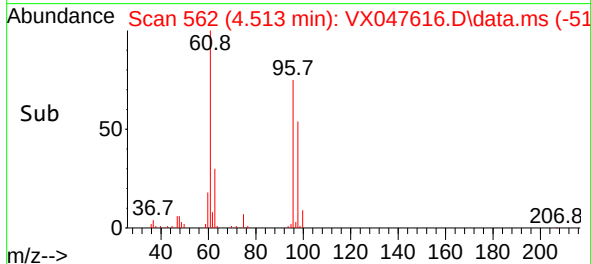
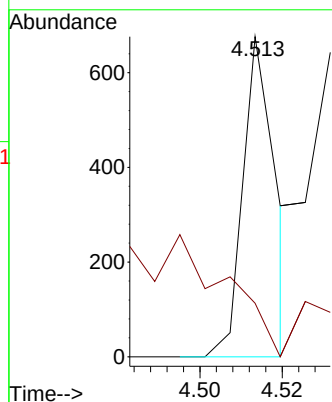
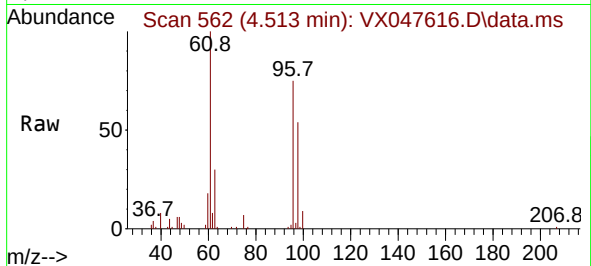




#25
2-Butanone
Concen: 0.247 ug/l
RT: 4.513 min Scan# 562
Delta R.T. -0.024 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

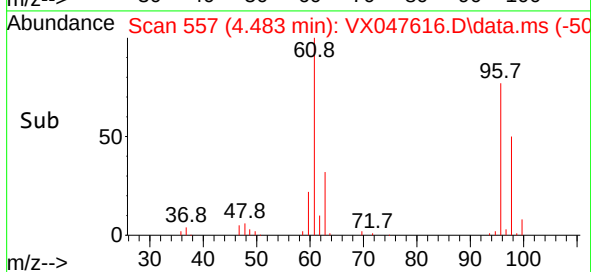
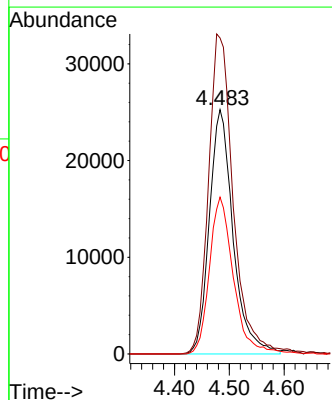
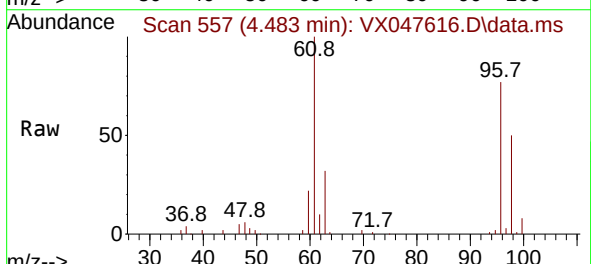
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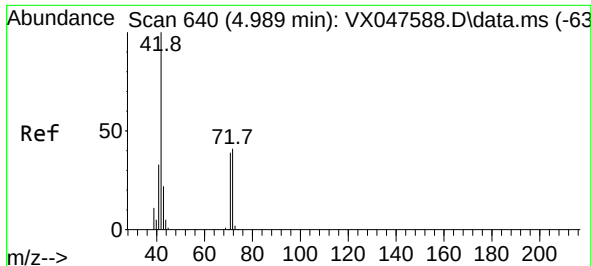
Tgt Ion: 43 Resp: 383
Ion Ratio Lower Upper
43 100
72 16.7 20.1 30.1#



#27
cis-1,2-Dichloroethene
Concen: 26.973 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion: 96 Resp: 75933
Ion Ratio Lower Upper
96 100
61 136.6 0.0 303.2
98 64.9 0.0 127.8





#29

Tetrahydrofuran

Concen: 5.608 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.024 min

Lab File: VX047616.D

Acq: 17 Sep 2025 14:27

Instrument :

MSVOA_X

ClientSampleId :

MW17811-20250909

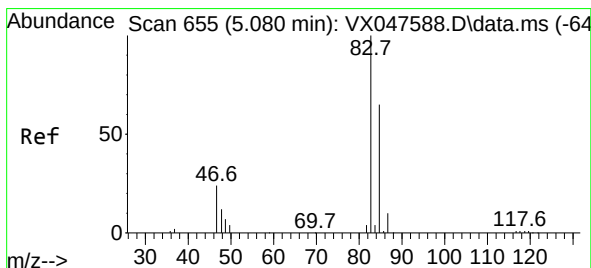
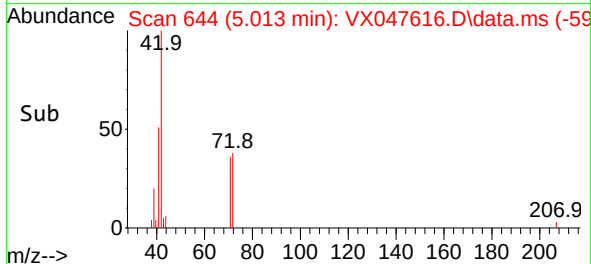
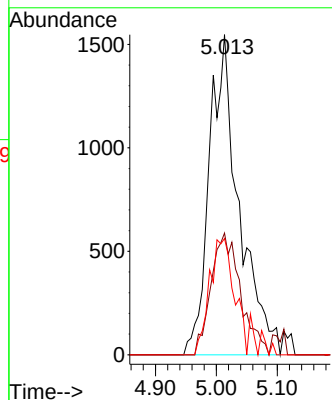
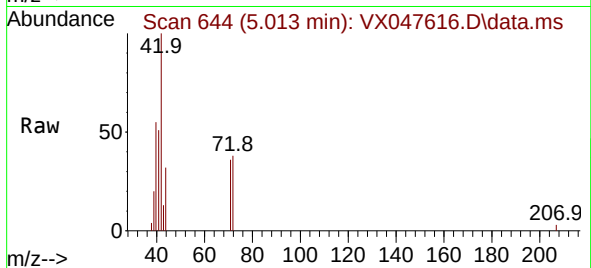
Tgt Ion: 42 Resp: 5234

Ion Ratio Lower Upper

42 100

72 37.8 34.2 51.2

71 30.1 31.9 47.9#



#30

Chloroform

Concen: 0.243 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.006 min

Lab File: VX047616.D

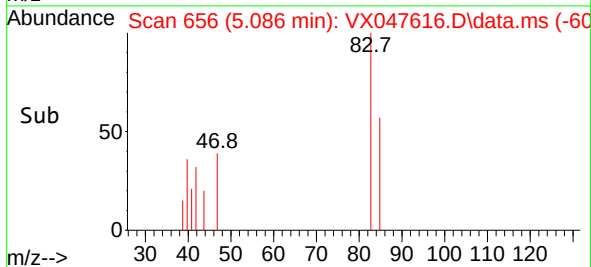
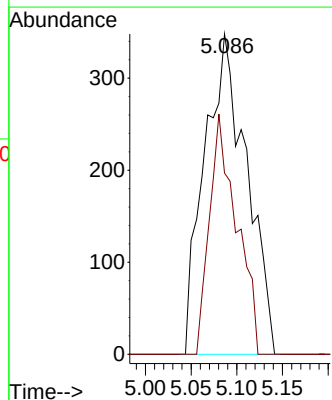
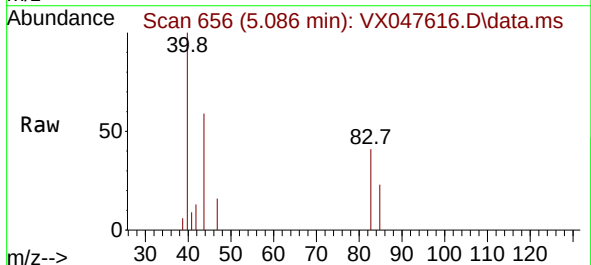
Acq: 17 Sep 2025 14:27

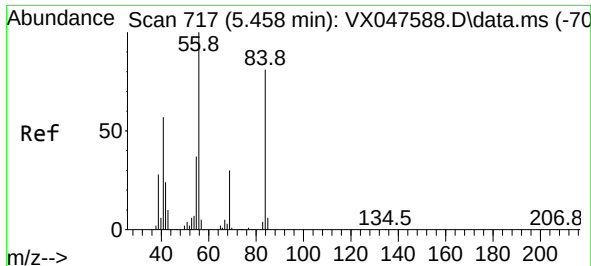
Tgt Ion: 83 Resp: 1116

Ion Ratio Lower Upper

83 100

85 56.6 51.8 77.6

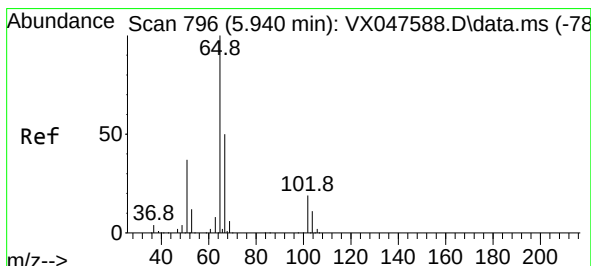
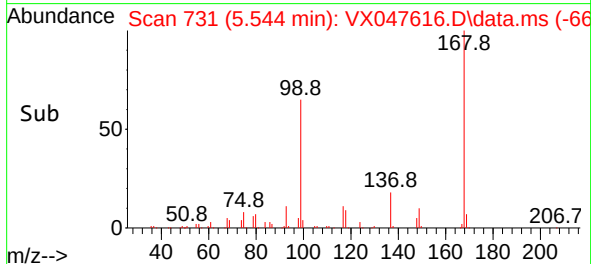
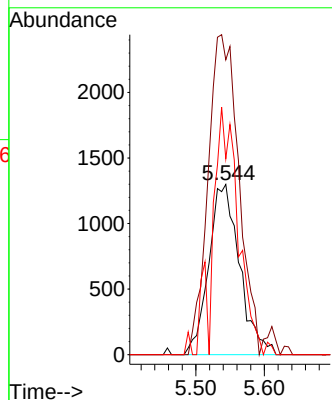
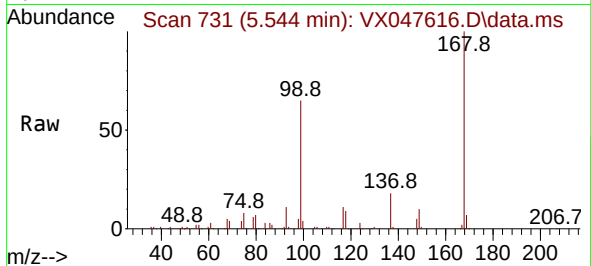




#31
Cyclohexane
Concen: 1.072 ug/l
RT: 5.544 min Scan# 717
Delta R.T. 0.085 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

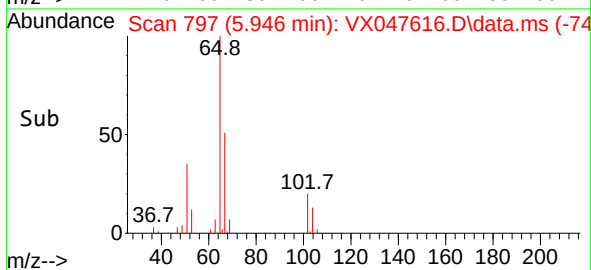
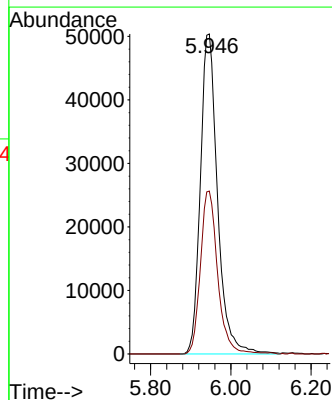
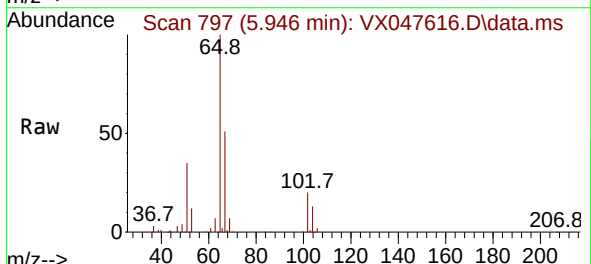
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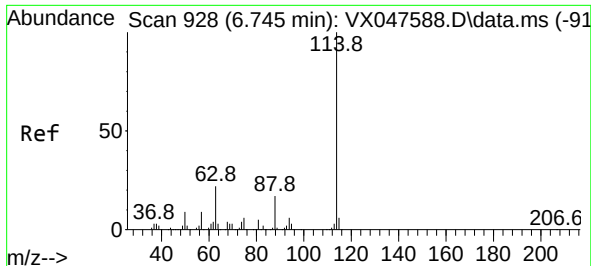
Tgt Ion	Resp	Lower	Upper
56	4052		
56	100		
69	173.2	23.8	35.8#
84	115.1	64.6	97.0#



#33
1,2-Dichloroethane-d4
Concen: 52.356 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion	Resp	Lower	Upper
65	149765		
65	100		
67	51.2	0.0	103.0

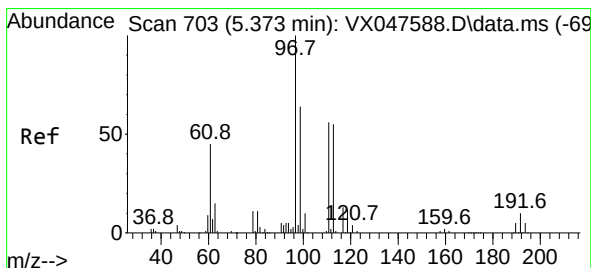
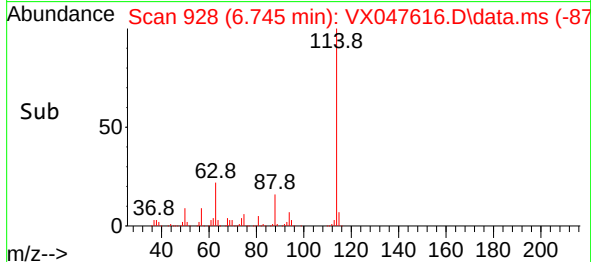
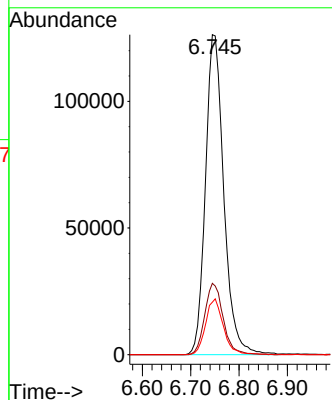
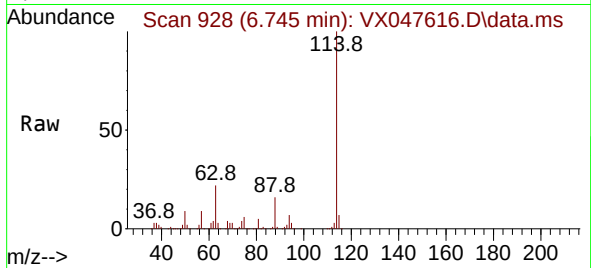




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

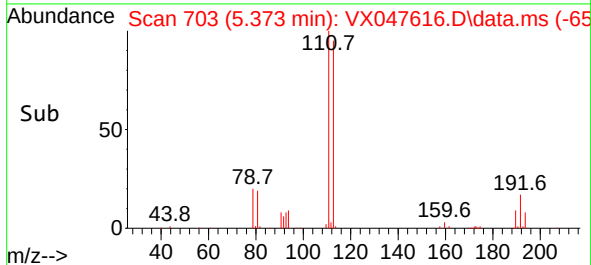
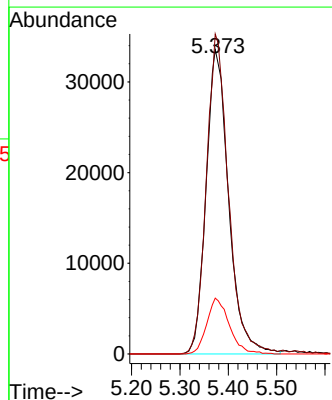
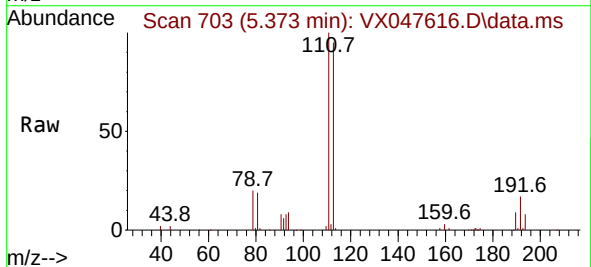
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20250909

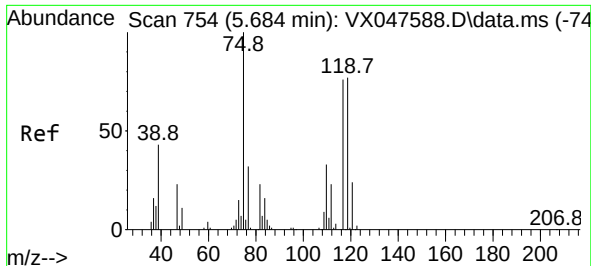
Tgt Ion:114 Resp: 333636
Ion Ratio Lower Upper
114 100
63 22.3 0.0 44.0
88 16.4 0.0 34.2



#35
Dibromofluoromethane
Concen: 48.686 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion:113 Resp: 108938
Ion Ratio Lower Upper
113 100
111 102.4 80.9 121.3
192 18.3 14.2 21.4

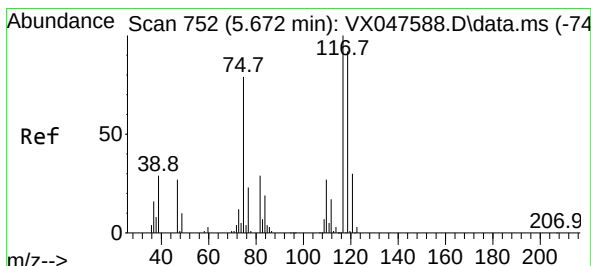
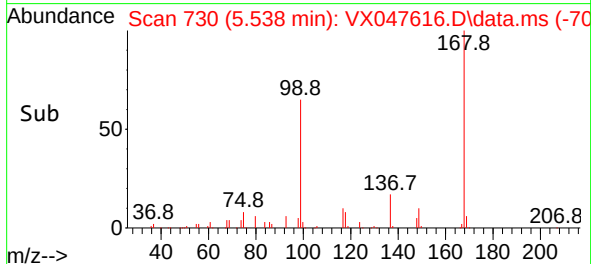
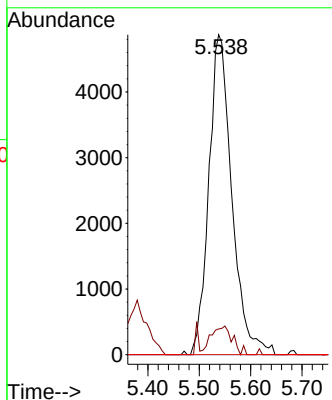
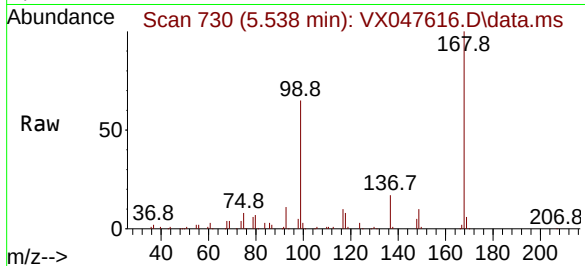




#36
1,1-Dichloropropene
Concen: 4.640 ug/l
RT: 5.538 min Scan# 711
Delta R.T. -0.146 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

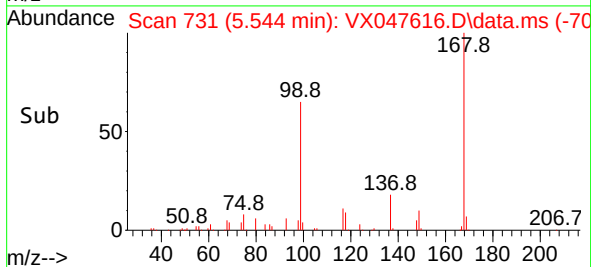
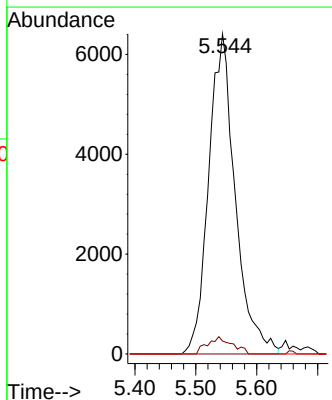
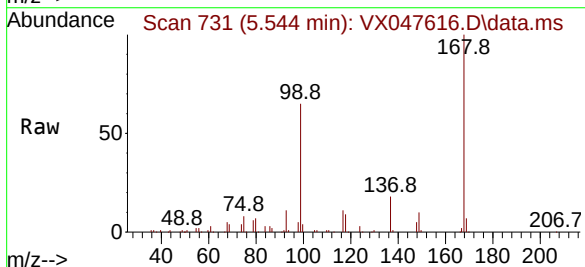
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20250909

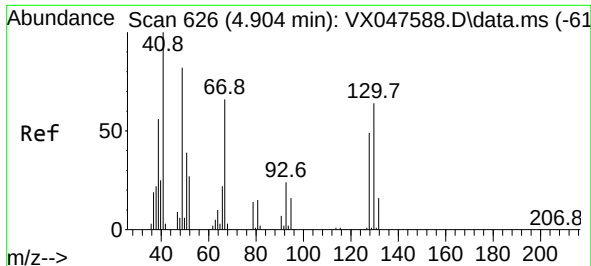
Tgt Ion: 75 Resp: 15171
Ion Ratio Lower Upper
75 100
110 7.9 16.7 50.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 5.474 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.128 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

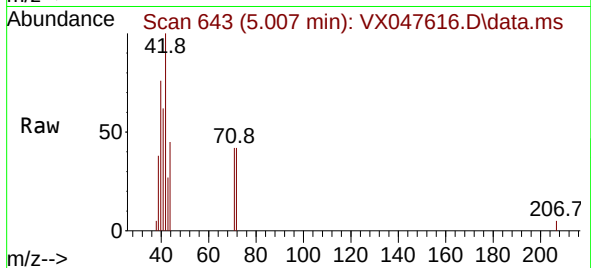
Tgt Ion: 117 Resp: 19445
Ion Ratio Lower Upper
117 100
119 4.0 73.4 110.2#
121 0.0 23.8 35.6#



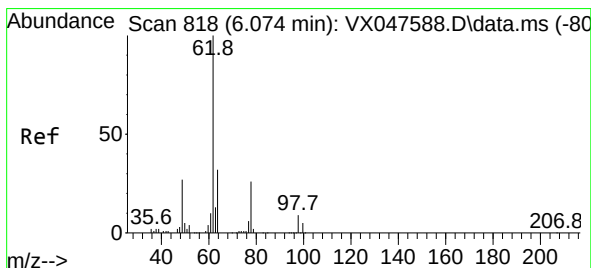
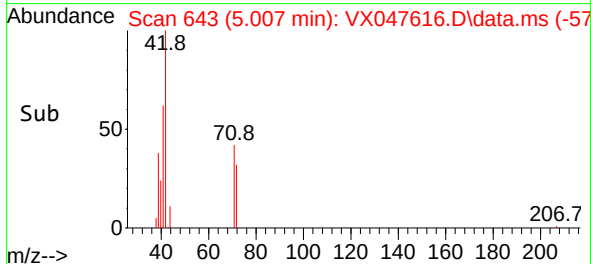
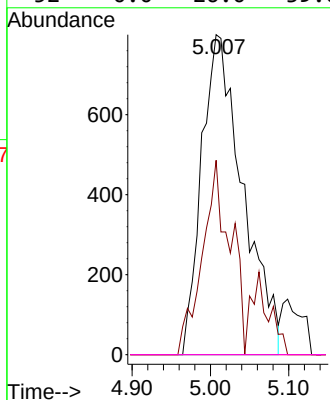


#41
Methacrylonitrile
Concen: 1.623 ug/l
RT: 5.007 min Scan# 643
Delta R.T. 0.104 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Instrument :
MSVOA_X
ClientSampleId :
MW17811-20250909

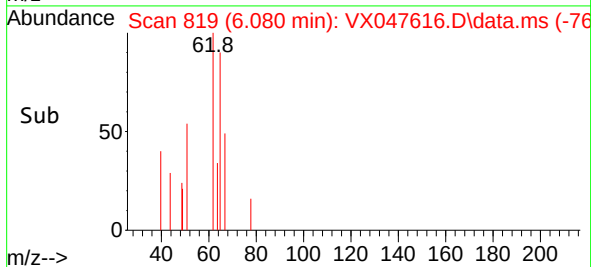
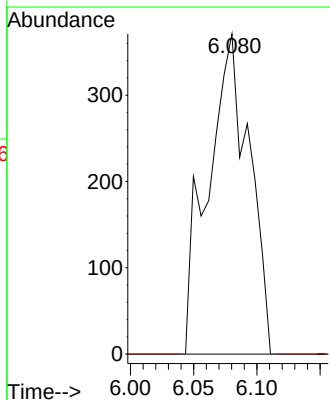
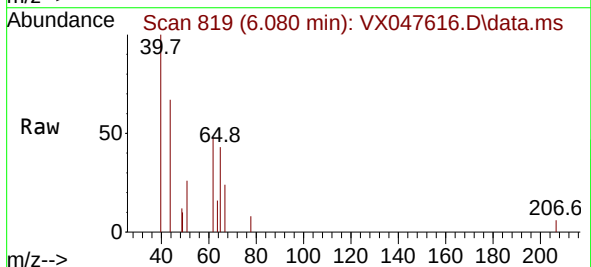


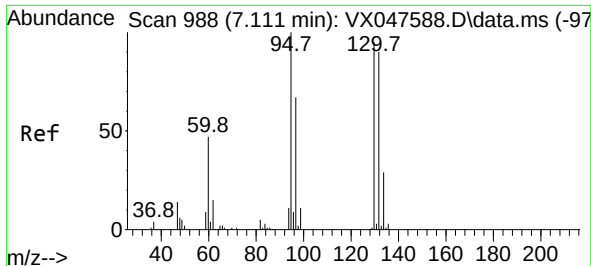
Tgt Ion:	41	Resp:	2934
Ion	Ratio	Lower	Upper
41	100		
39	41.1	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#



#42
1,2-Dichloroethane
Concen: 0.223 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.006 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion:	62	Resp:	844
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.0

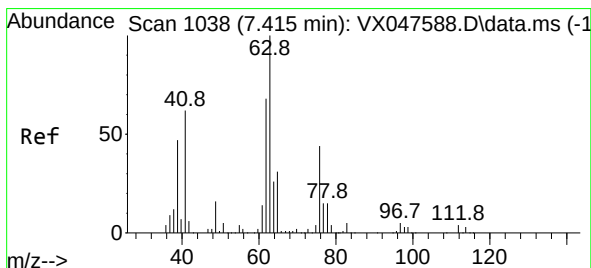
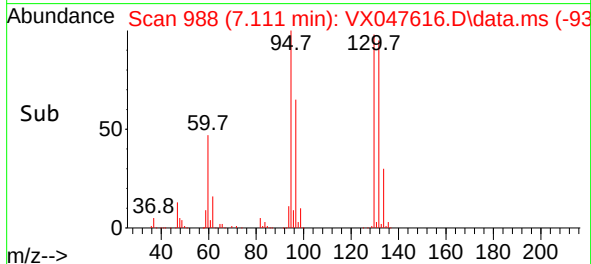
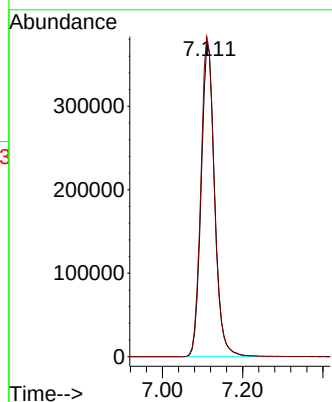
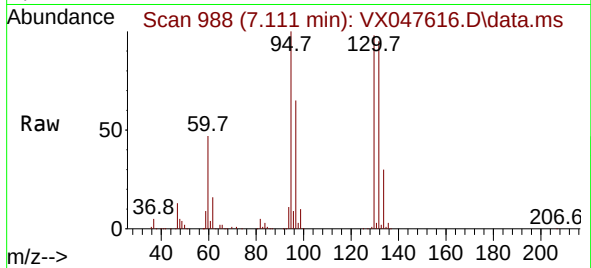




#44
Trichloroethene
Concen: 365.617 ug/l
RT: 7.111 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

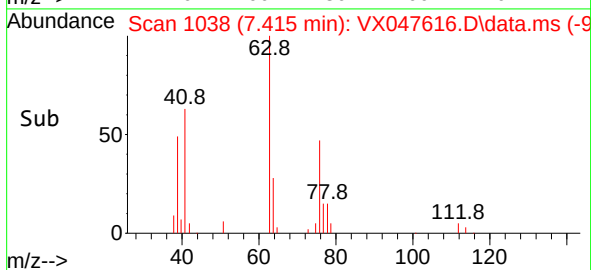
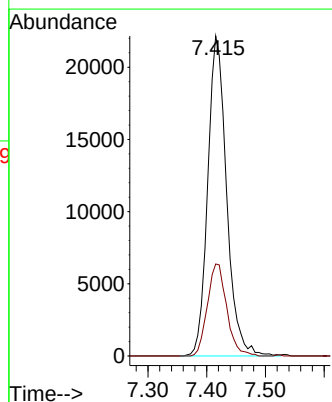
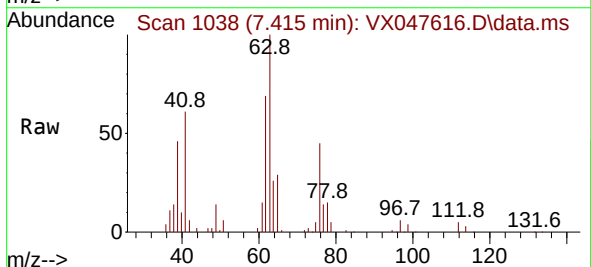
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20250909

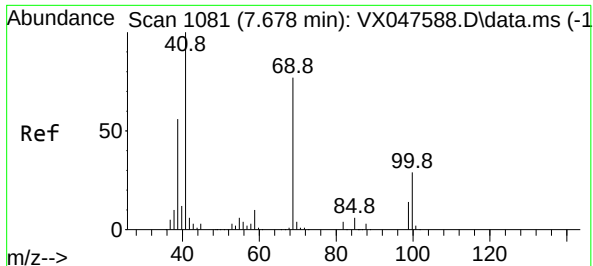
Tgt Ion:130 Resp: 877789
Ion Ratio Lower Upper
130 100
95 102.4 0.0 210.8



#45
1,2-Dichloropropane
Concen: 19.431 ug/l
RT: 7.415 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion: 63 Resp: 49410
Ion Ratio Lower Upper
63 100
65 28.8 24.7 37.1





#48

Methyl methacrylate

Concen: 9.610 ug/l

RT: 7.415 min Scan# 1081

Delta R.T. -0.262 min

Lab File: VX047616.D

Acq: 17 Sep 2025 14:27

Instrument :

MSVOA_X

ClientSampleId :

MW17811-20250909

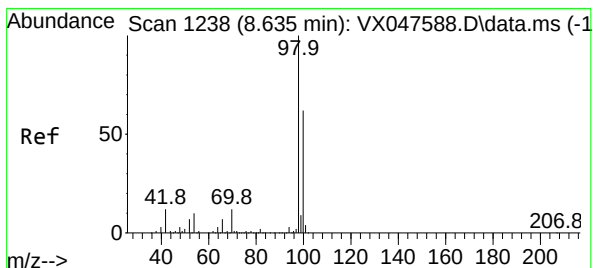
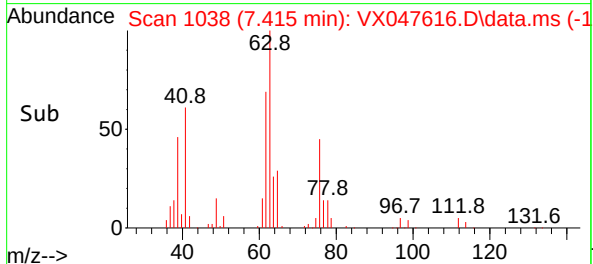
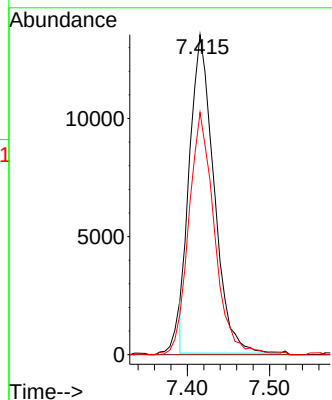
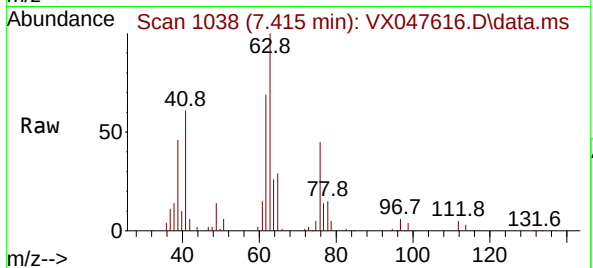
Tgt Ion: 41 Resp: 27483

Ion Ratio Lower Upper

41 100

69 0.0 61.4 92.2#

39 77.7 45.8 68.6#



#50

Toluene-d8

Concen: 46.643 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX047616.D

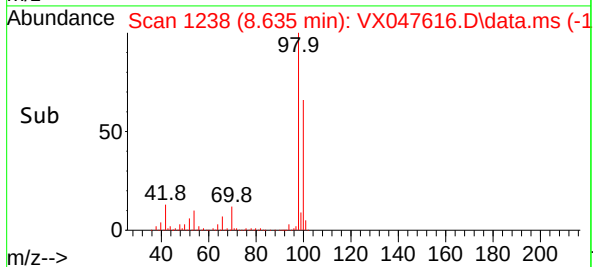
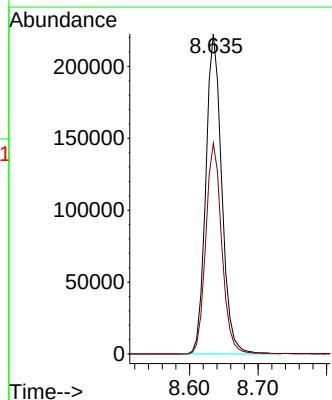
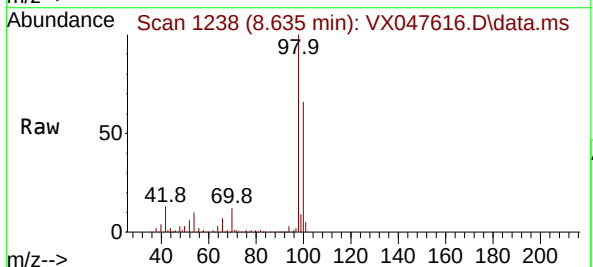
Acq: 17 Sep 2025 14:27

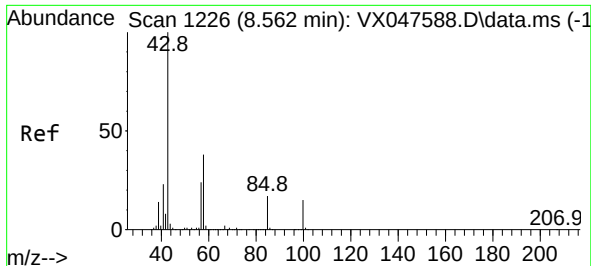
Tgt Ion: 98 Resp: 361127

Ion Ratio Lower Upper

98 100

100 66.0 53.0 79.4

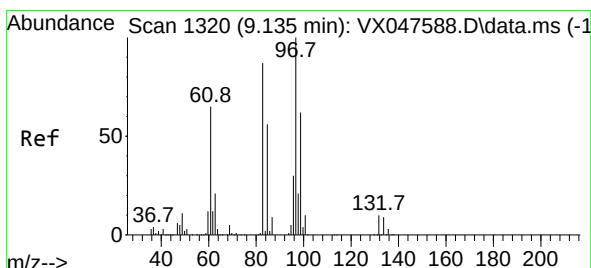
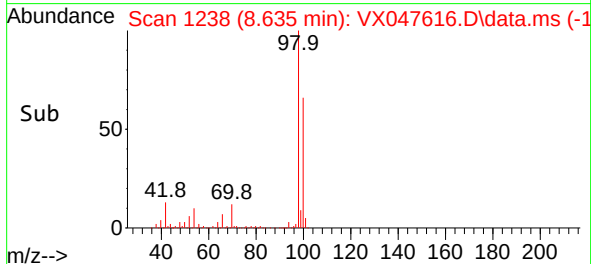
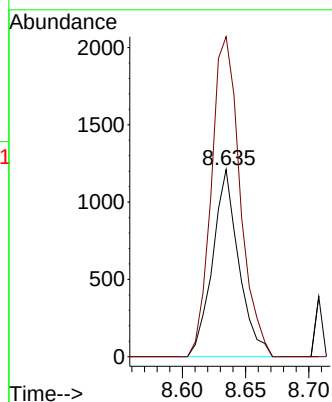
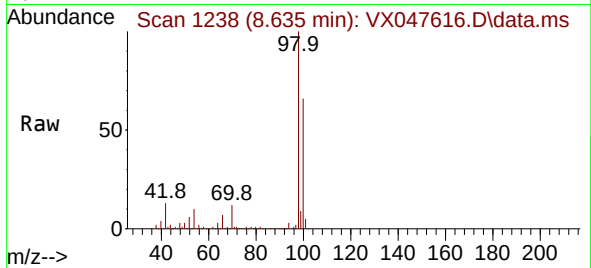




#51
4-Methyl-2-Pentanone
Concen: 0.549 ug/l
RT: 8.635 min Scan# 11
Delta R.T. 0.073 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

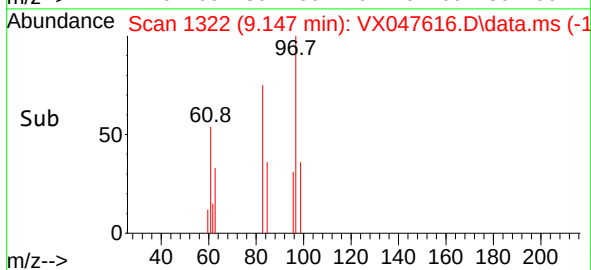
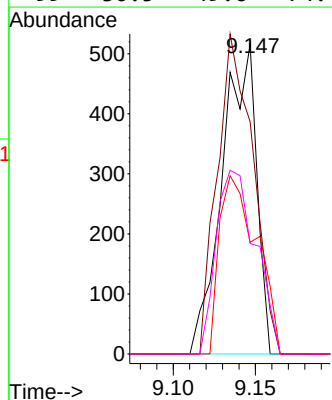
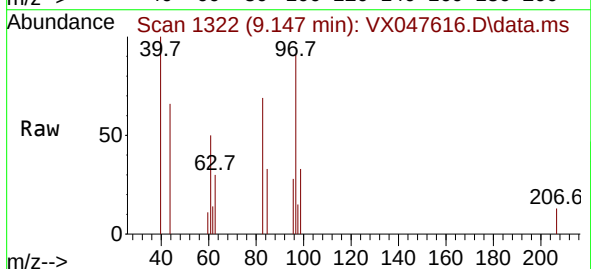
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20250909

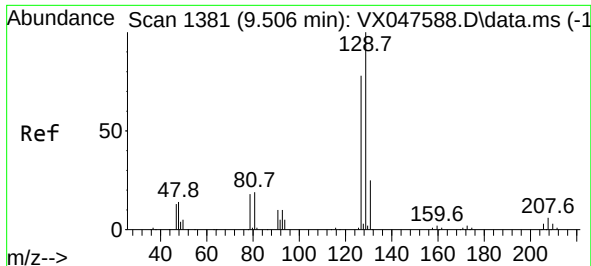
Tgt Ion: 43 Resp: 1749
Ion Ratio Lower Upper
43 100
58 186.9 30.3 45.5#



#55
1,1,2-Trichloroethane
Concen: 0.315 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. 0.012 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion: 97 Resp: 744
Ion Ratio Lower Upper
97 100
83 64.2 69.6 104.4#
85 30.8 45.0 67.6#
99 30.5 49.6 74.4#

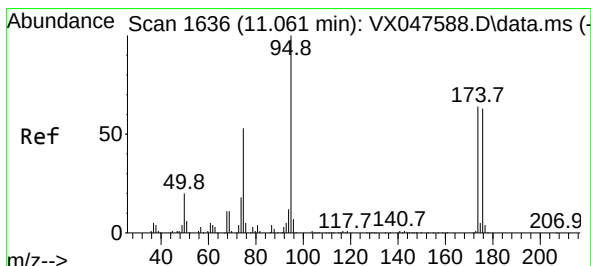
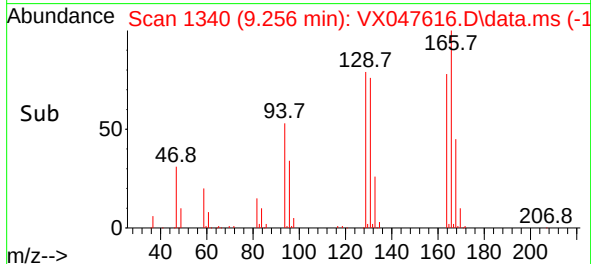
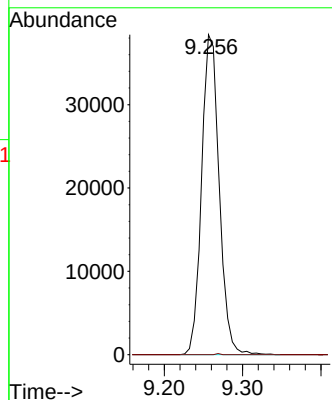
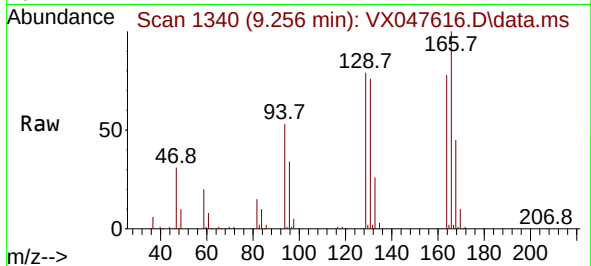




#60
Dibromochloromethane
Concen: 22.013 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

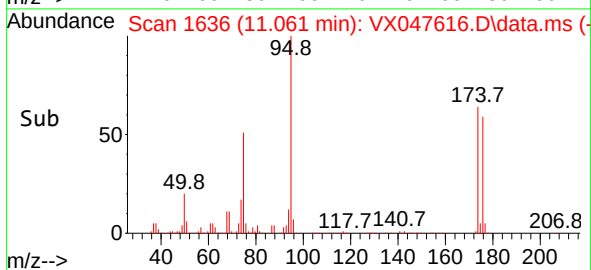
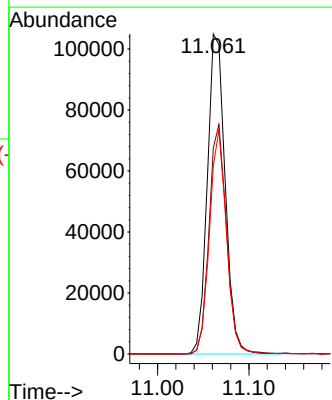
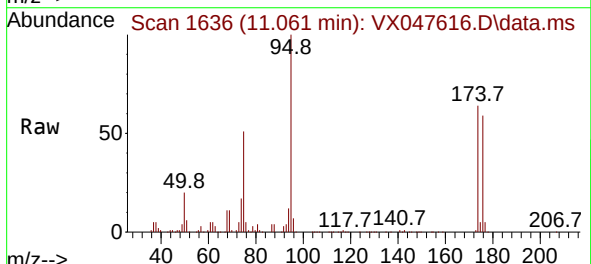
Instrument :
MSVOA_X
ClientSampleId :
MW17811-20250909

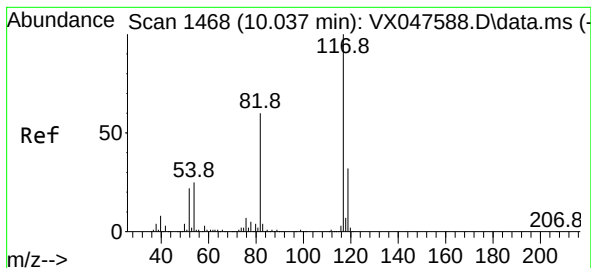
Tgt Ion:129 Resp: 59838
Ion Ratio Lower Upper
129 100
127 0.1 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 48.283 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047616.D
Acq: 17 Sep 2025 14:27

Tgt Ion: 95 Resp: 141872
Ion Ratio Lower Upper
95 100
174 70.3 0.0 141.6
176 66.6 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: VX047616.D

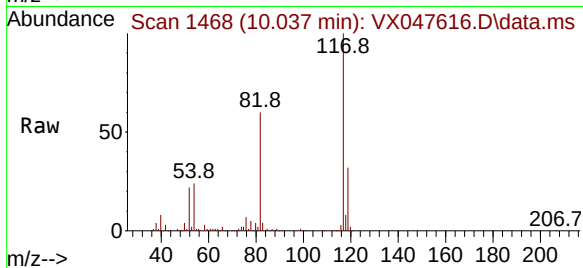
Acq: 17 Sep 2025 14:27

Instrument :

MSVOA_X

ClientSampleId :

MW17811-20250909



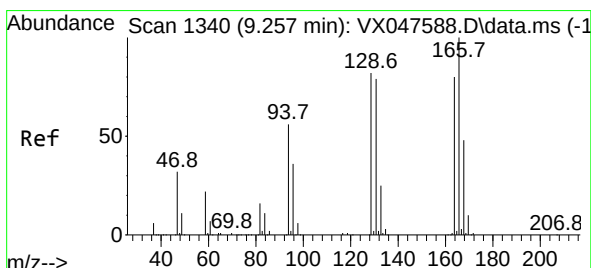
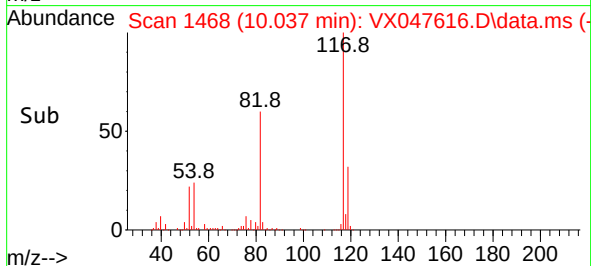
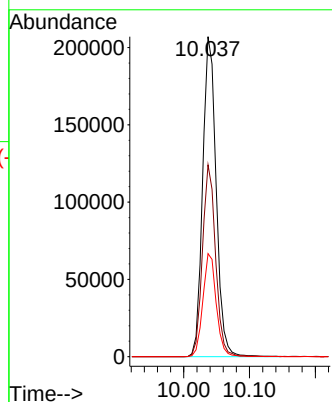
Tgt Ion:117 Resp: 295278

Ion Ratio Lower Upper

117 100

82 60.0 47.8 71.6

119 32.2 25.2 37.8



#64

Tetrachloroethene

Concen: 30.667 ug/l

RT: 9.263 min Scan# 1341

Delta R.T. 0.006 min

Lab File: VX047616.D

Acq: 17 Sep 2025 14:27

Tgt Ion:164 Resp: 59031

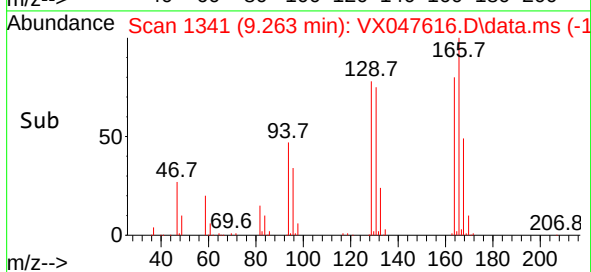
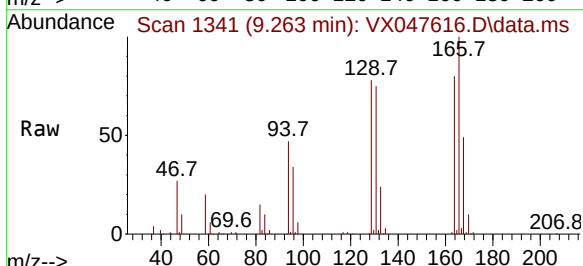
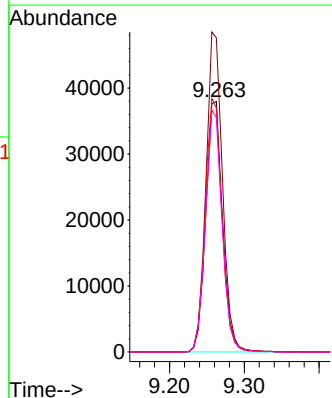
Ion Ratio Lower Upper

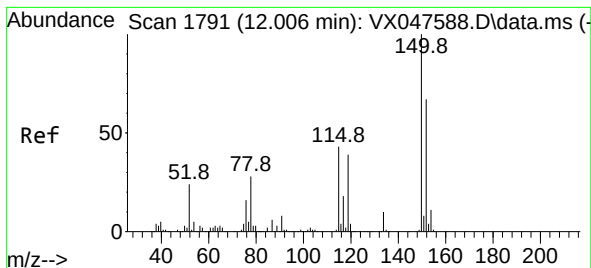
164 100

166 125.5 100.2 150.2

129 97.4 81.8 122.6

131 93.6 78.6 118.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047616.D

Acq: 17 Sep 2025 14:27

Instrument :

MSVOA_X

ClientSampleId :

MW17811-20250909

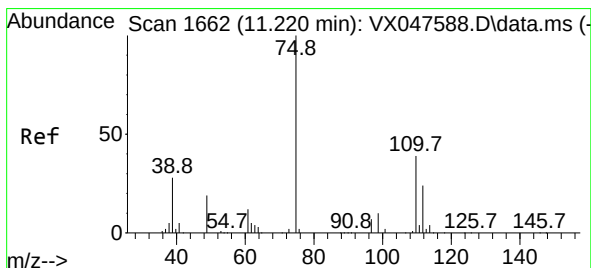
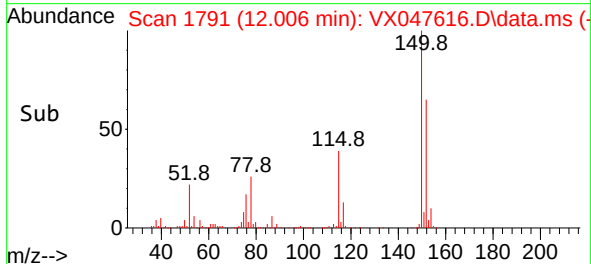
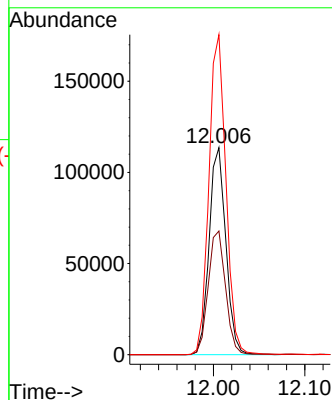
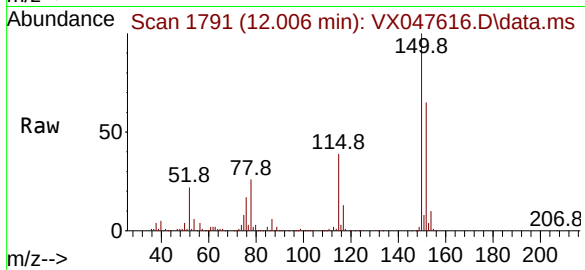
Tgt Ion:152 Resp: 144330

Ion Ratio Lower Upper

152 100

115 61.8 44.9 134.5

150 156.6 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 2.552 ug/l

RT: 11.226 min Scan# 1663

Delta R.T. 0.006 min

Lab File: VX047616.D

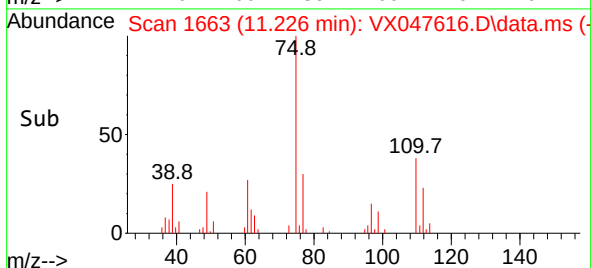
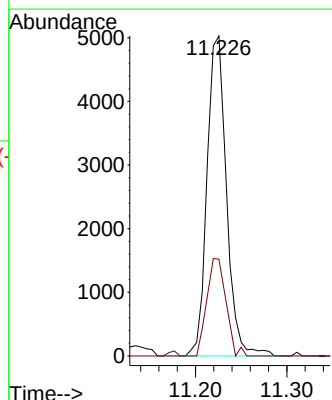
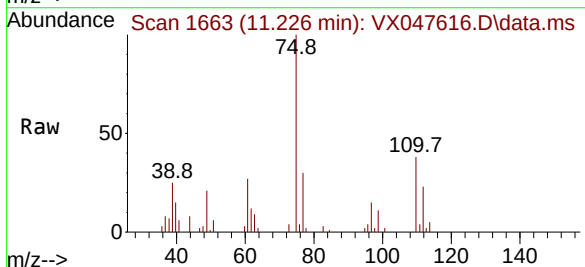
Acq: 17 Sep 2025 14:27

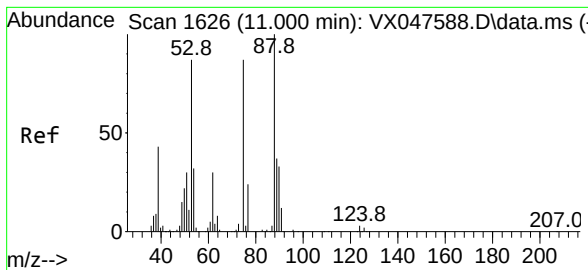
Tgt Ion: 75 Resp: 7457

Ion Ratio Lower Upper

75 100

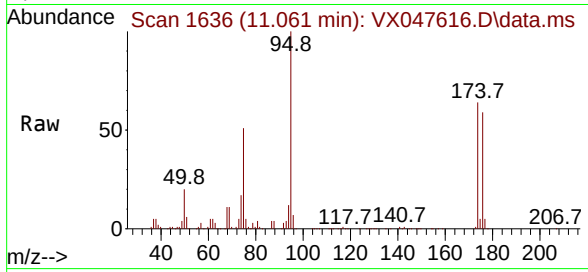
77 29.9 18.8 56.4





#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.335 ug/l
 RT: 11.061 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX047616.D
 Acq: 17 Sep 2025 14:27

Instrument :
 MSVOA_X
 ClientSampleId :
 MW17811-20250909



Tgt Ion: 75 Resp: 72576
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.4 125.2#
 89 0.0 36.3 54.5#

