

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX093025\
 Data File : VX047910.D
 Acq On : 30 Sep 2025 14:58
 Operator : JC/MD
 Sample : Q3193-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RW4-20250922

Quant Time: Oct 01 01:11:44 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)

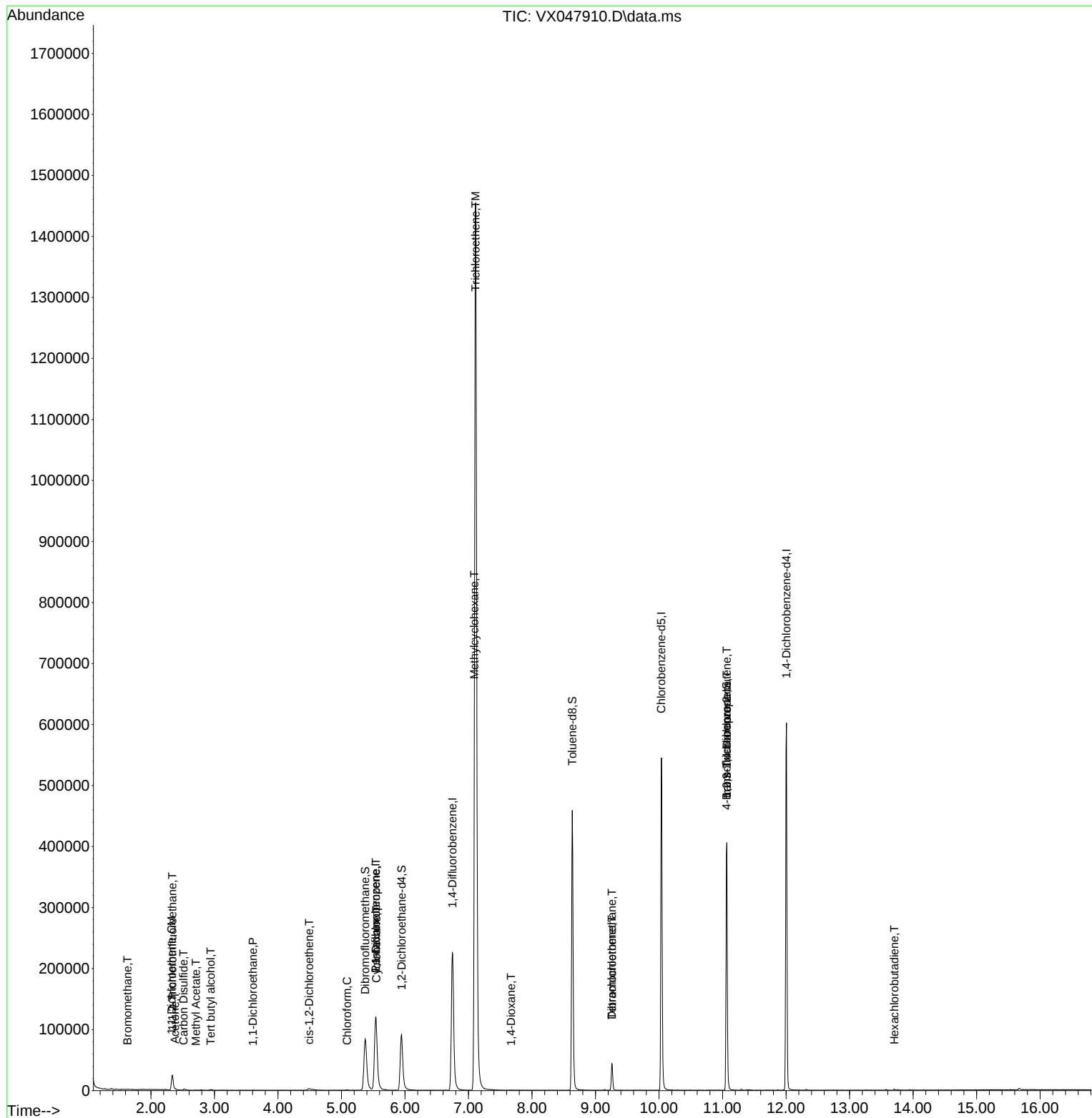
Internal Standards						
1) Pentafluorobenzene	5.538	168	119753	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	250577	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	253514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	125109	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	99109	51.994	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 103.980%	
35) Dibromofluoromethane	5.373	113	82661	49.188	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.380%	
50) Toluene-d8	8.635	98	280068	48.164	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 96.320%	
62) 4-Bromofluorobenzene	11.061	95	118987	53.917	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 107.840%	
Target Compounds						
5) Bromomethane	1.630	94	235	0.232	ug/l #	65
9) 1,1,2-Trichlorotrifluo...	2.337	101	10662	7.698	ug/l	98
11) Tert butyl alcohol	2.941	59	222	1.046	ug/l #	72
12) 1,1-Dichloroethene	2.325	96	1148	0.807	ug/l	96
16) Acetone	2.380	43	1867	2.253	ug/l #	79
17) Carbon Disulfide	2.514	76	805	0.207	ug/l #	76
18) Methyl Acetate	2.709	43	424	0.230	ug/l #	54
24) 1,1-Dichloroethane	3.605	63	641	0.212	ug/l #	81
27) cis-1,2-Dichloroethene	4.489	96	1671	0.891	ug/l	98
30) Chloroform	5.087	83	760	0.249	ug/l	86
31) Cyclohexane	5.550	56	2624	1.042	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	10156	4.136	ug/l #	50
39) Methylcyclohexane	7.092	83	3685	1.322	ug/l #	1
44) Trichloroethene	7.111	130	611255	338.992	ug/l	95
49) 1,4-Dioxane	7.671	88	376	17.321	ug/l #	77
60) Dibromochloromethane	9.256	129	8537	4.182	ug/l #	11
64) Tetrachloroethene	9.256	164	8627	5.220	ug/l	95
76) 1,2,3-Trichloropropane	11.067	75	61730	24.370	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.067	75	61730	62.146	ug/l #	8
94) Hexachlorobutadiene	13.707	225	326	0.356	ug/l	95

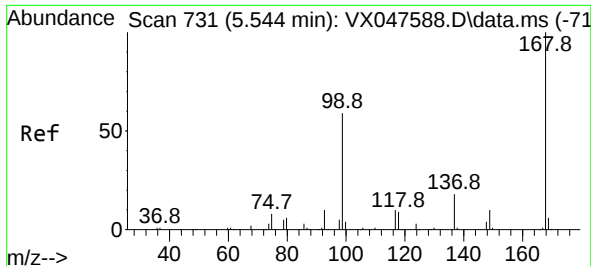
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX093025\
Data File : VX047910.D
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Instrument :
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ClientSampleId :
RW4-20250922

Quant Time: Oct 01 01:11:44 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

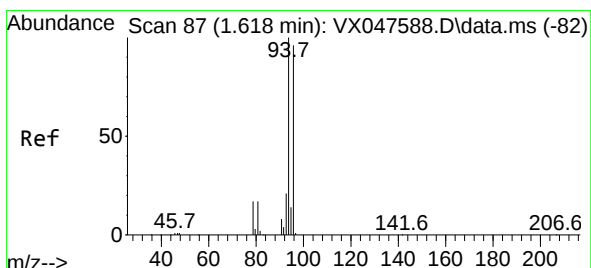
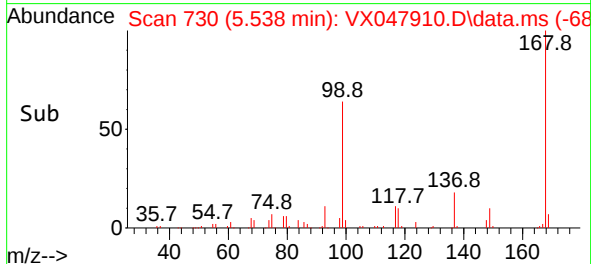
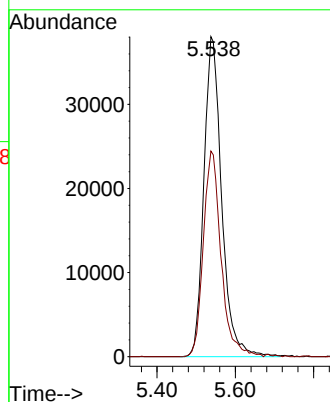
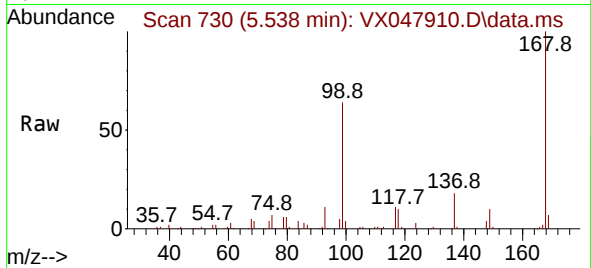




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

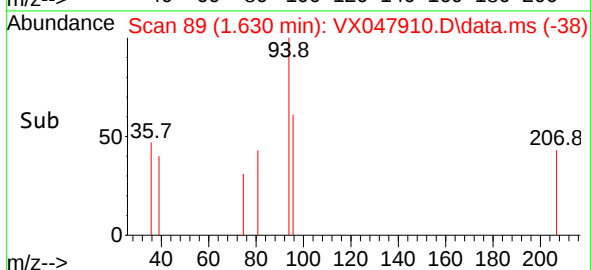
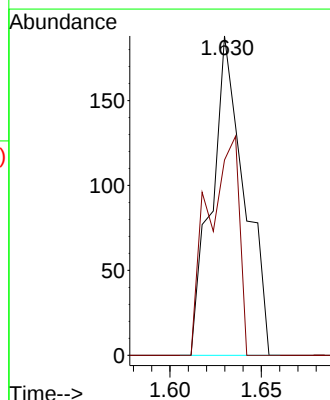
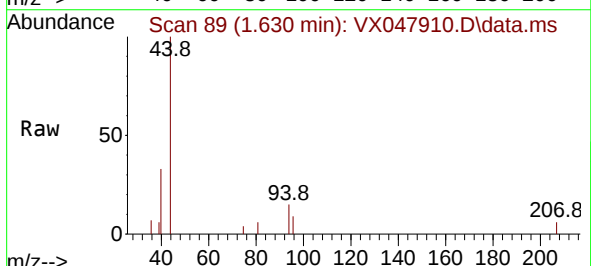
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922

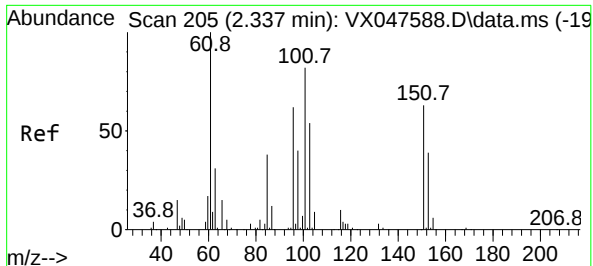
Tgt Ion:168 Resp: 119753
Ion Ratio Lower Upper
168 100
99 64.3 48.8 73.2



#5
Bromomethane
Concen: 0.232 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

Tgt Ion: 94 Resp: 235
Ion Ratio Lower Upper
94 100
96 61.2 76.6 115.0#

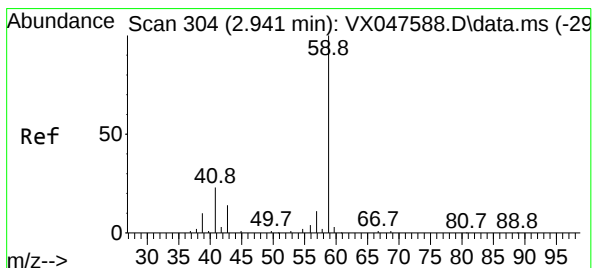
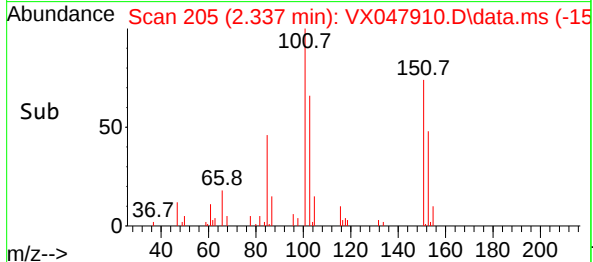
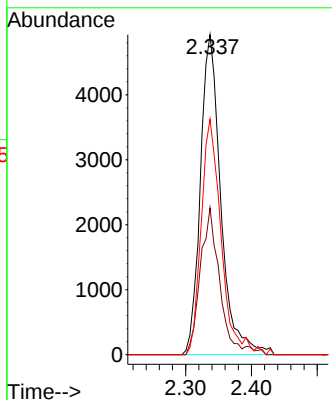
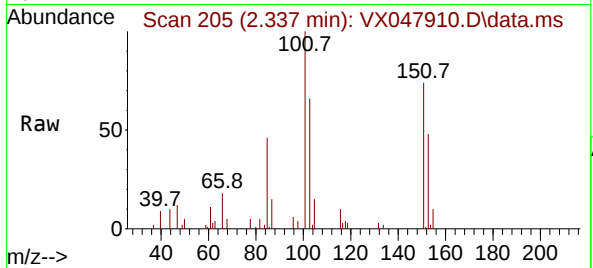




#9
1,1,2-Trichlorotrifluoroethane
Concen: 7.698 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

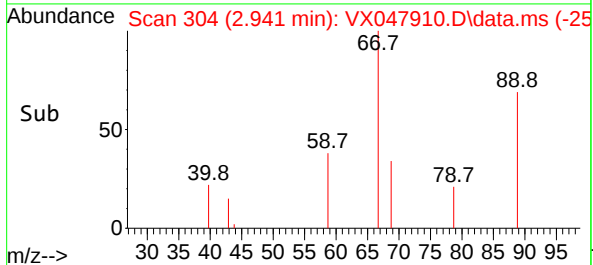
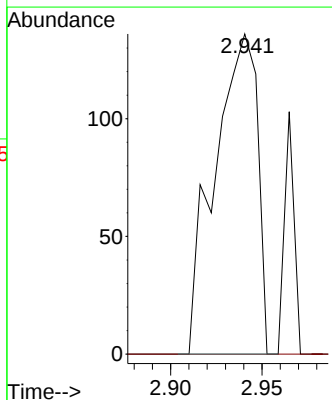
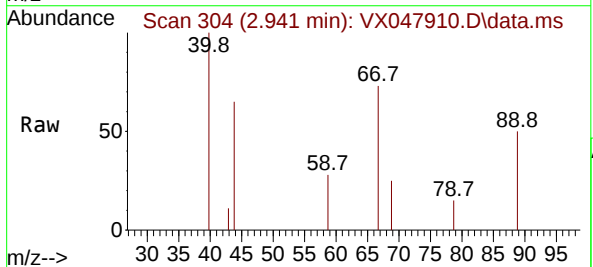
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922

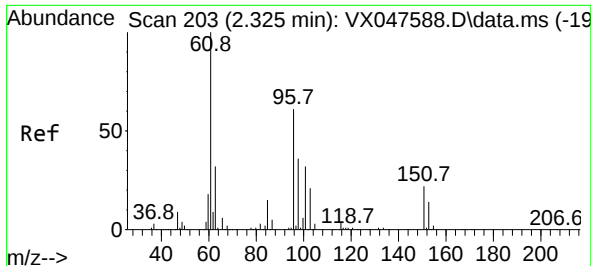
Tgt Ion:	101	Resp:	10662
Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.5	53.3
151	71.8	59.4	89.0



#11
Tert butyl alcohol
Concen: 1.046 ug/l
RT: 2.941 min Scan# 304
Delta R.T. -0.000 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

Tgt Ion:	59	Resp:	222
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5

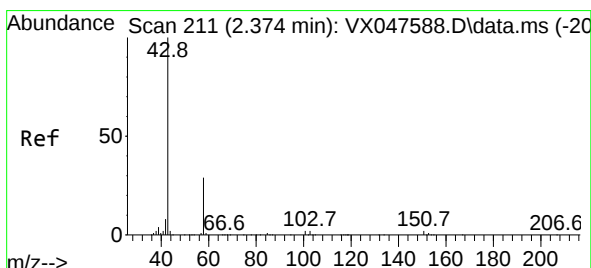
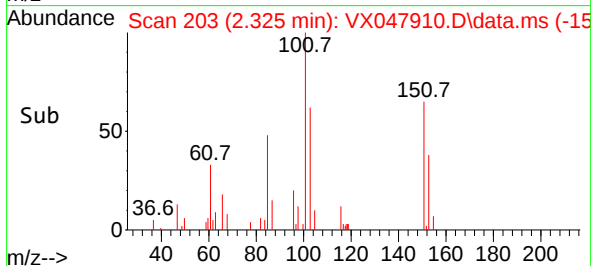
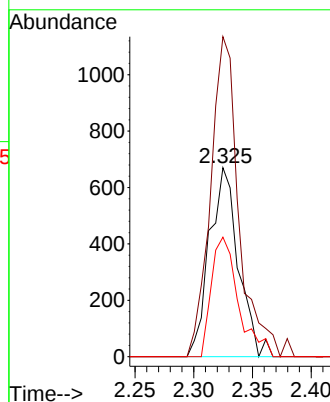
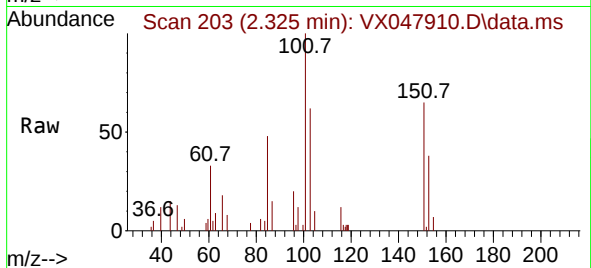




#12
1,1-Dichloroethene
Concen: 0.807 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

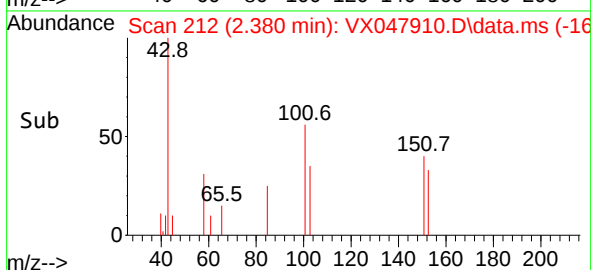
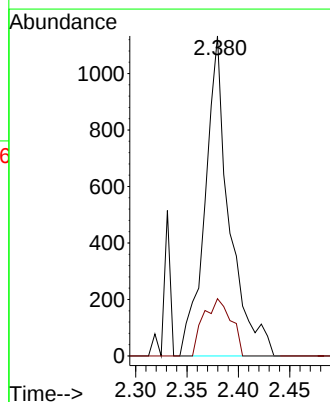
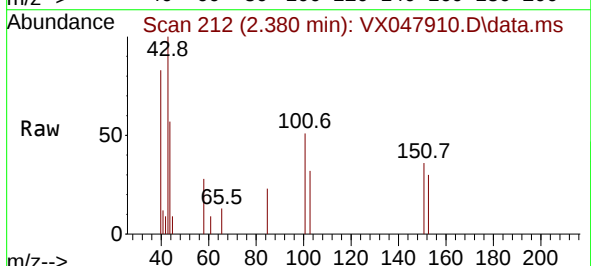
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922

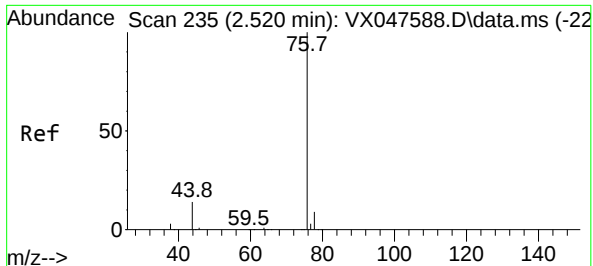
Tgt Ion: 96 Resp: 1148
Ion Ratio Lower Upper
96 100
61 169.4 131.0 196.6
98 63.3 47.7 71.5



#16
Acetone
Concen: 2.253 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

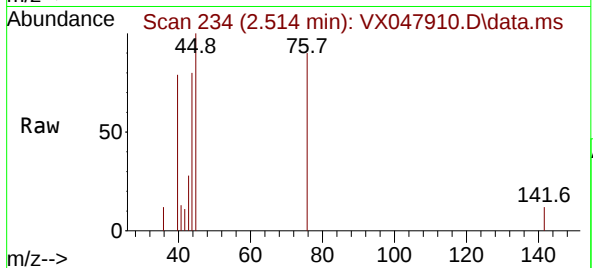
Tgt Ion: 43 Resp: 1867
Ion Ratio Lower Upper
43 100
58 17.9 23.4 35.0#



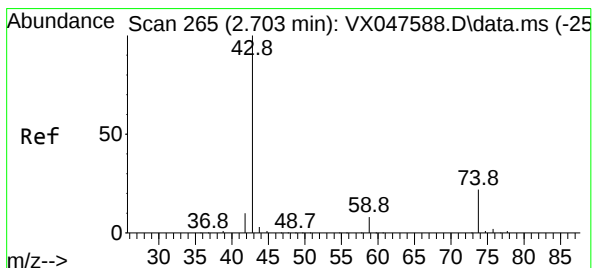
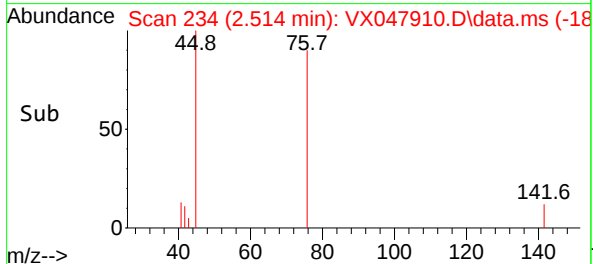
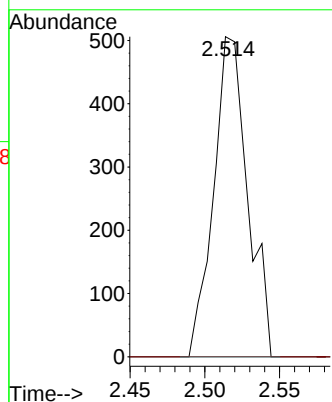


#17
Carbon Disulfide
Concen: 0.207 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922

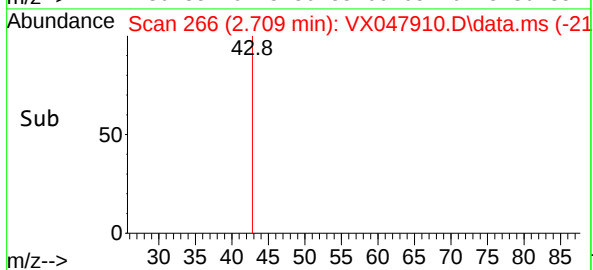
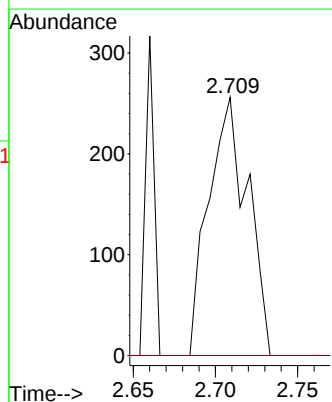
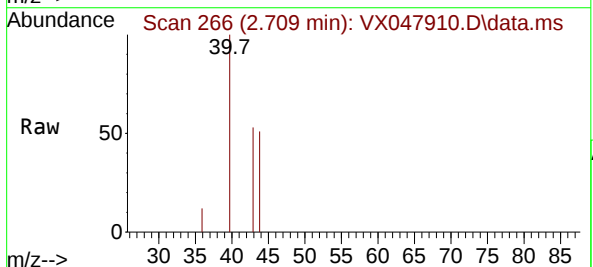


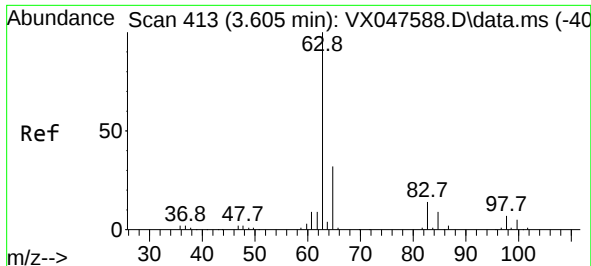
Tgt Ion: 76 Resp: 805
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#



#18
Methyl Acetate
Concen: 0.230 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

Tgt Ion: 43 Resp: 424
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#

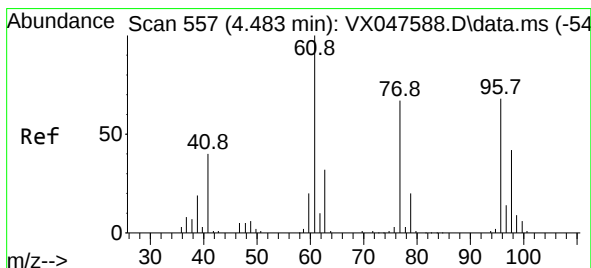
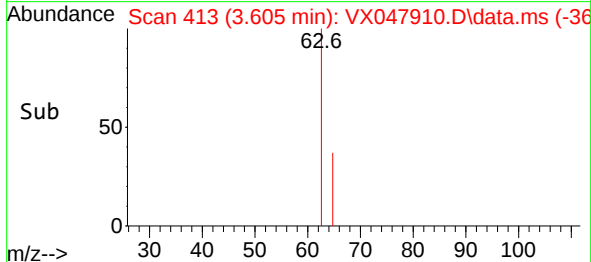
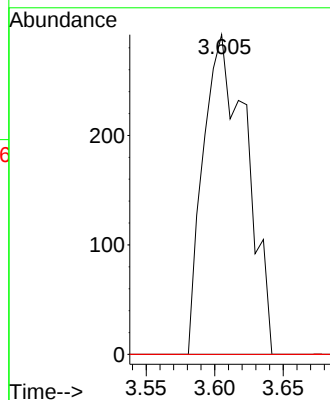
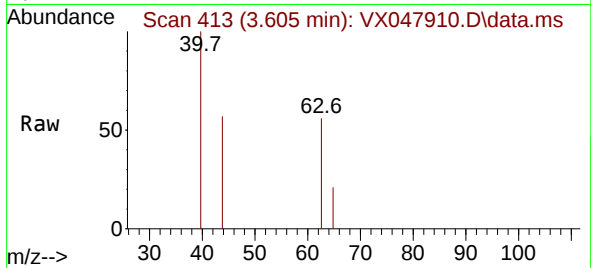




#24
 1,1-Dichloroethane
 Concen: 0.212 ug/l
 RT: 3.605 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VX047910.D
 Acq: 30 Sep 2025 14:58

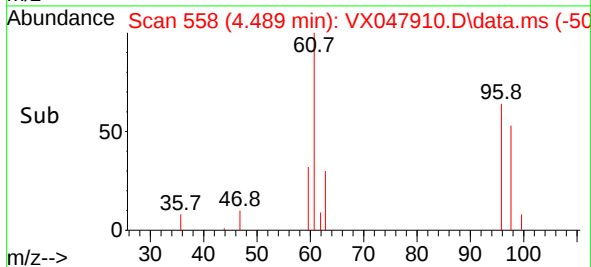
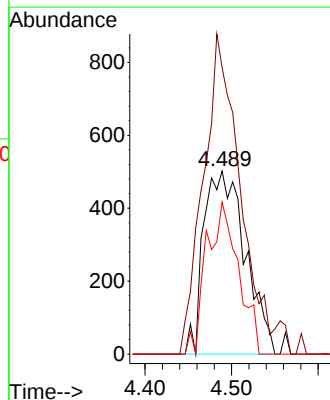
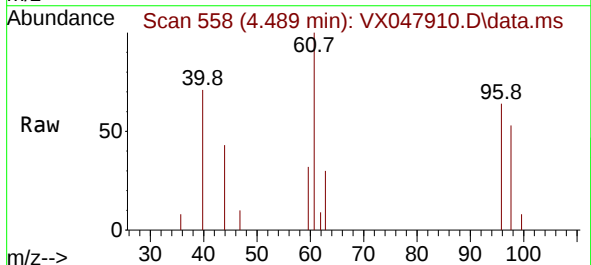
Instrument :
 MSVOA_X
 ClientSampleId :
 RW4-20250922

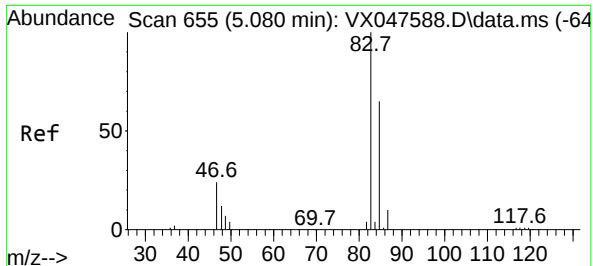
Tgt Ion: 63 Resp: 641
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.8 11.2#
 100 0.0 2.3 6.9#



#27
 cis-1,2-Dichloroethene
 Concen: 0.891 ug/l
 RT: 4.489 min Scan# 558
 Delta R.T. 0.006 min
 Lab File: VX047910.D
 Acq: 30 Sep 2025 14:58

Tgt Ion: 96 Resp: 1671
 Ion Ratio Lower Upper
 96 100
 61 154.4 0.0 303.2
 98 63.6 0.0 127.8





#30

Chloroform

Concen: 0.249 ug/l

RT: 5.087 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX047910.D

Acq: 30 Sep 2025 14:58

Instrument :

MSVOA_X

ClientSampleId :

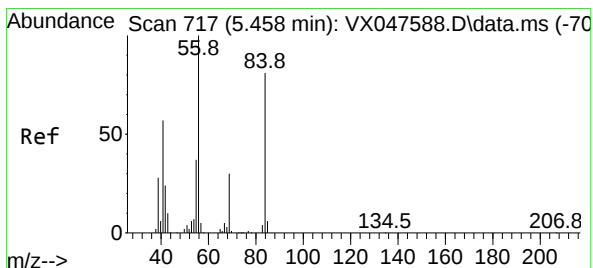
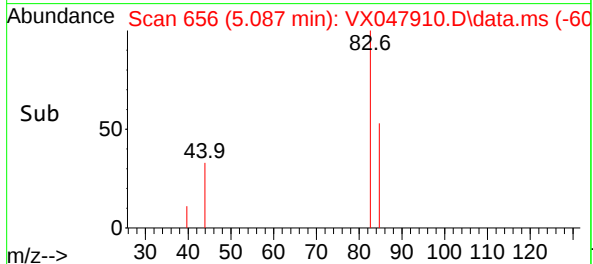
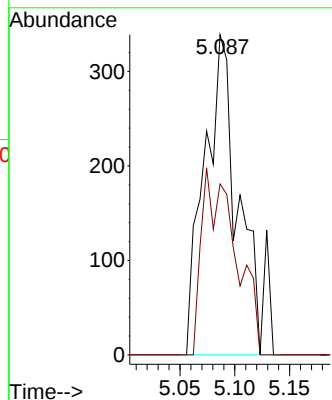
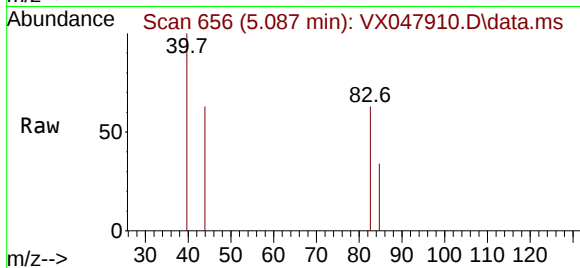
RW4-20250922

Tgt Ion: 83 Resp: 760

Ion Ratio Lower Upper

83 100

85 53.4 51.8 77.6



#31

Cyclohexane

Concen: 1.042 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.091 min

Lab File: VX047910.D

Acq: 30 Sep 2025 14:58

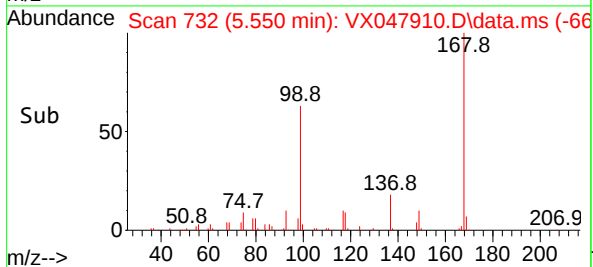
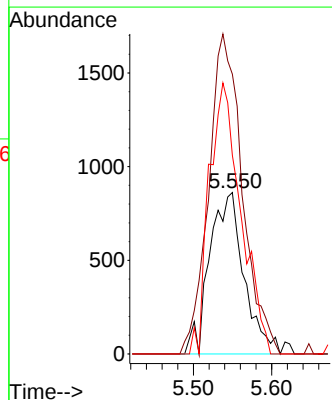
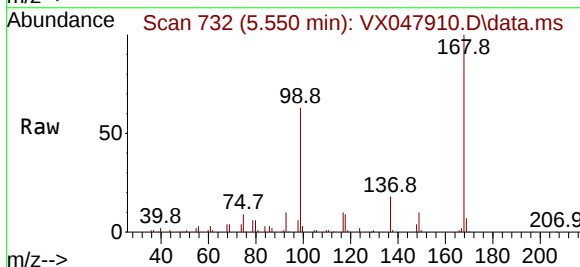
Tgt Ion: 56 Resp: 2624

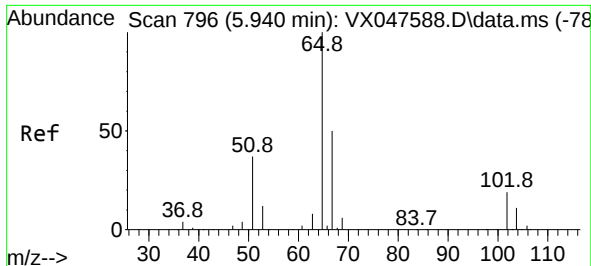
Ion Ratio Lower Upper

56 100

69 173.3 23.8 35.8#

84 123.1 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 51.994 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047910.D

Acq: 30 Sep 2025 14:58

Instrument :

MSVOA_X

ClientSampleId :

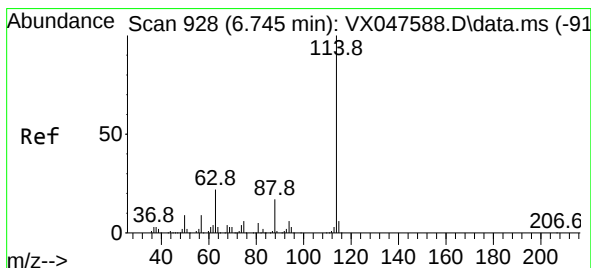
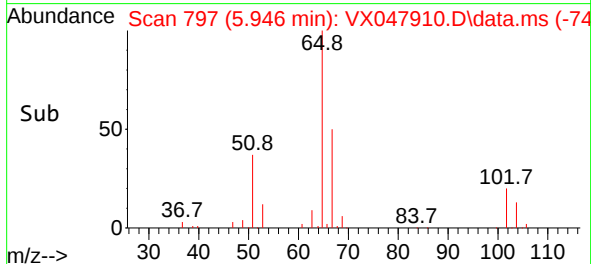
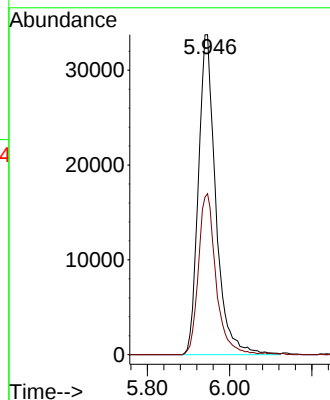
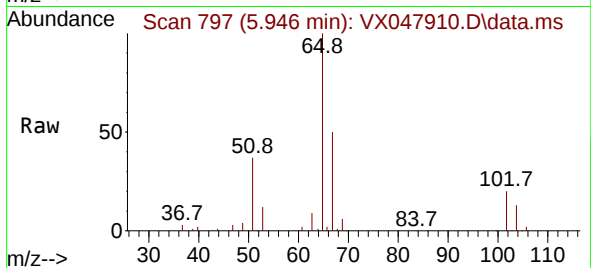
RW4-20250922

Tgt Ion: 65 Resp: 99109

Ion Ratio Lower Upper

65 100

67 50.7 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047910.D

Acq: 30 Sep 2025 14:58

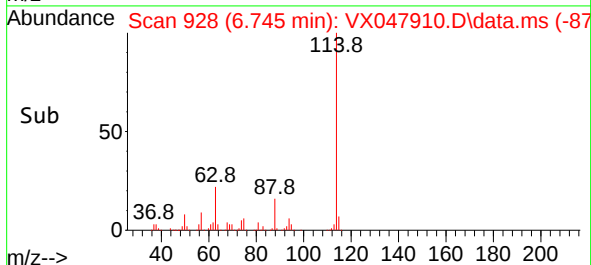
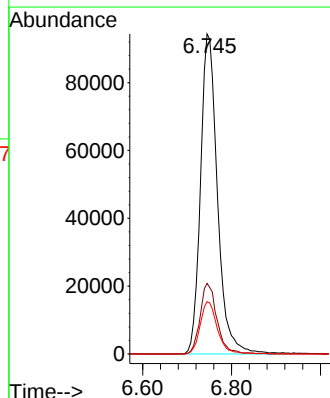
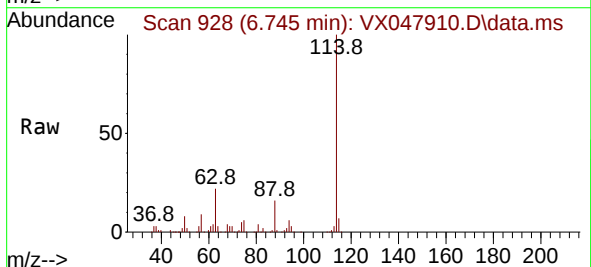
Tgt Ion: 114 Resp: 250577

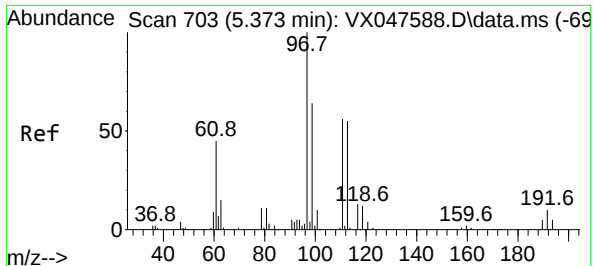
Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.0

88 16.3 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.188 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047910.D

Acq: 30 Sep 2025 14:58

Instrument :

MSVOA_X

ClientSampleId :

RW4-20250922

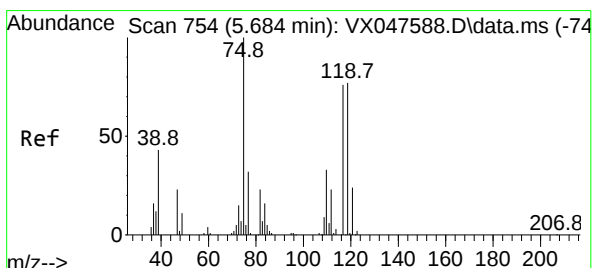
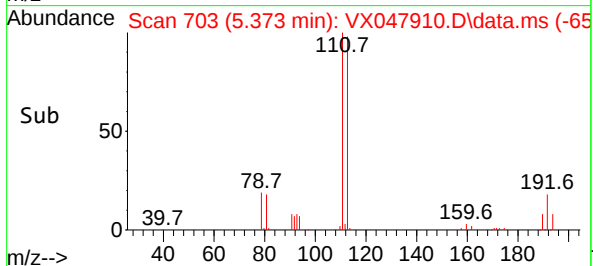
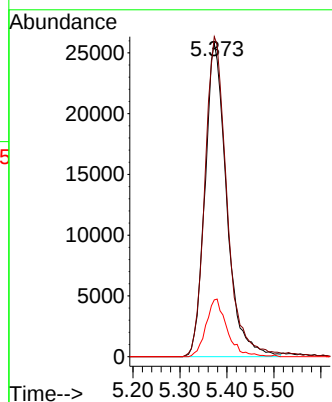
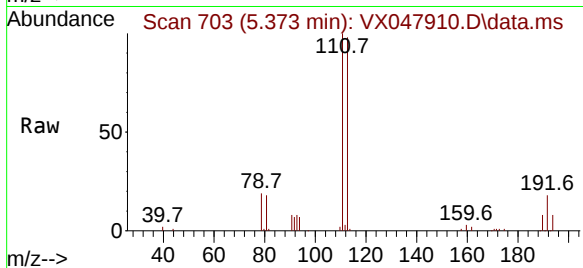
Tgt Ion:113 Resp: 82661

Ion Ratio Lower Upper

113 100

111 103.8 80.9 121.3

192 17.8 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.136 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX047910.D

Acq: 30 Sep 2025 14:58

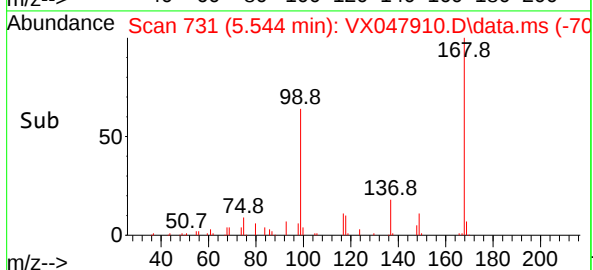
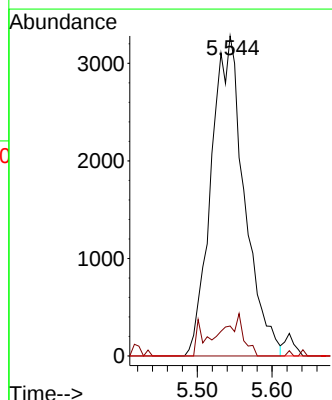
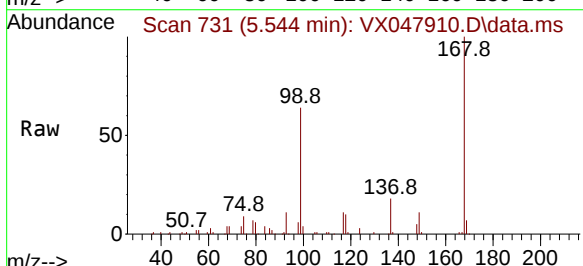
Tgt Ion: 75 Resp: 10156

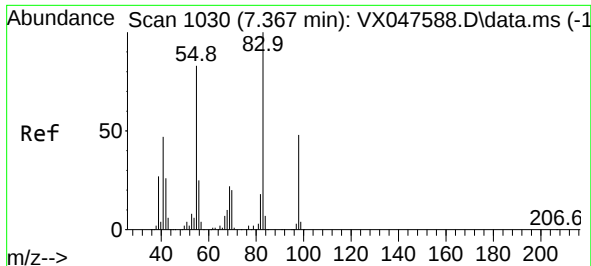
Ion Ratio Lower Upper

75 100

110 7.6 16.7 50.1#

77 0.0 24.3 36.5#

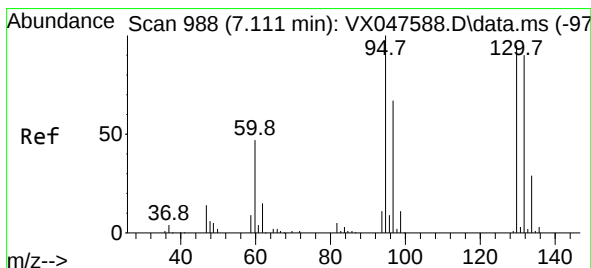
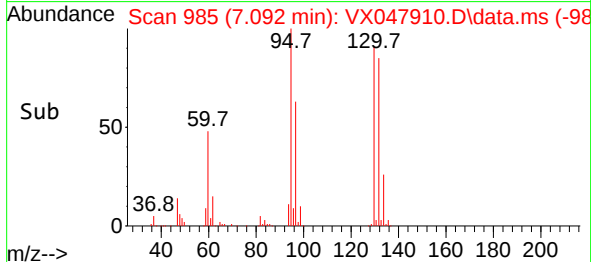
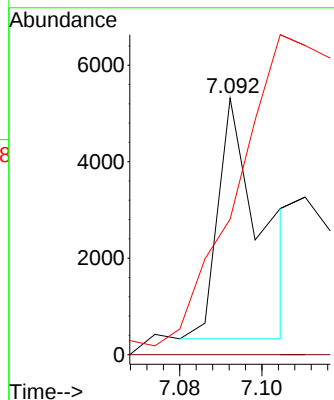
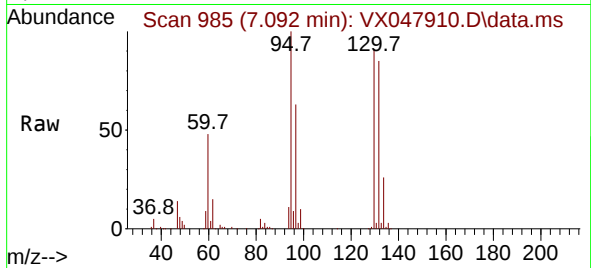




#39
Methylcyclohexane
Concen: 1.322 ug/l
RT: 7.092 min Scan# 985
Delta R.T. -0.274 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

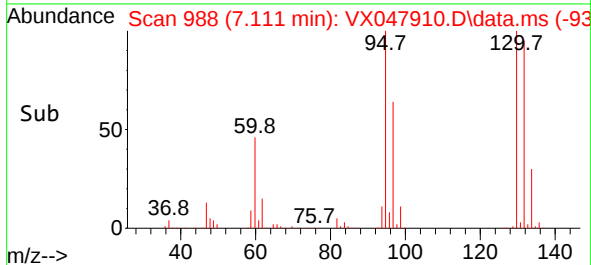
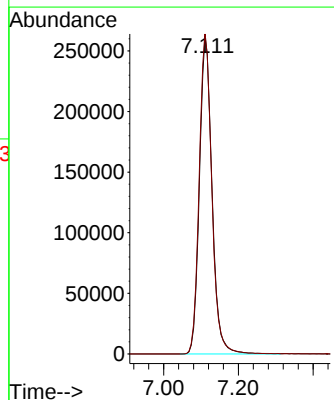
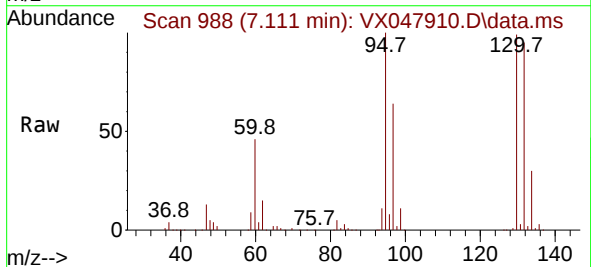
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922

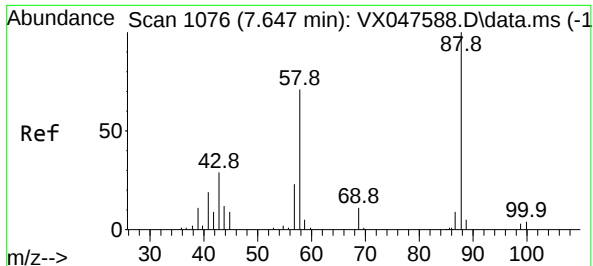
Tgt Ion: 83 Resp: 3685
Ion Ratio Lower Upper
83 100
55 0.0 66.4 99.6#
98 272.4 38.1 57.1#



#44
Trichloroethene
Concen: 338.992 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

Tgt Ion:130 Resp: 611255
Ion Ratio Lower Upper
130 100
95 100.5 0.0 210.8





#49

1,4-Dioxane

Concen: 17.321 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. 0.024 min

Lab File: VX047910.D

Acq: 30 Sep 2025 14:58

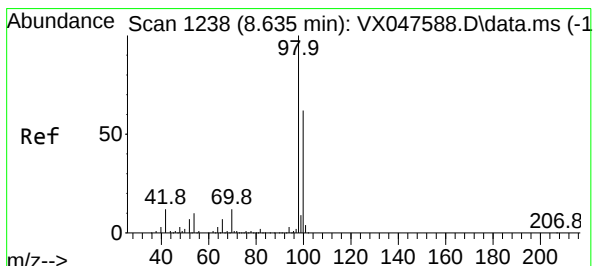
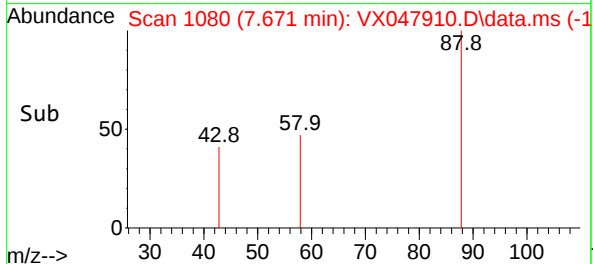
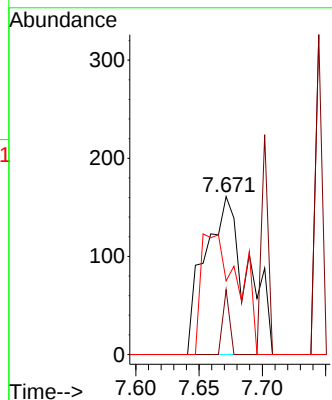
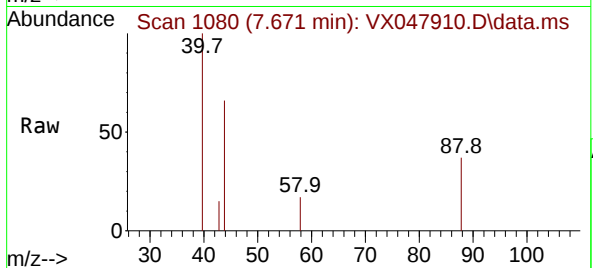
Instrument :

MSVOA_X

ClientSampleId :

RW4-20250922

Tgt Ion:	88	Resp:	376
Ion	Ratio	Lower	Upper
88	100		
43	6.4	30.2	45.2#
58	67.0	59.5	89.3



#50

Toluene-d8

Concen: 48.164 ug/l

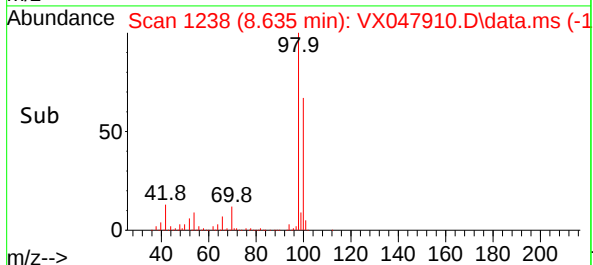
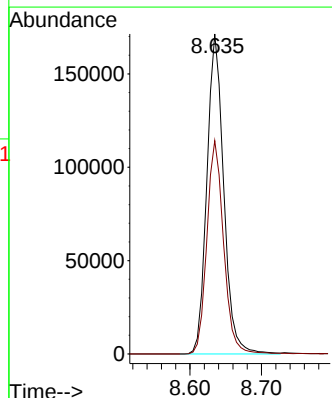
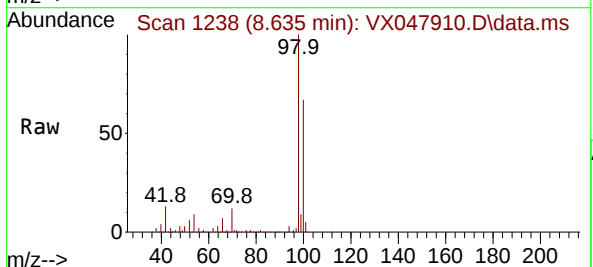
RT: 8.635 min Scan# 1238

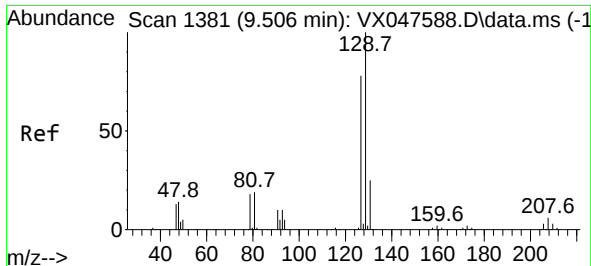
Delta R.T. -0.000 min

Lab File: VX047910.D

Acq: 30 Sep 2025 14:58

Tgt Ion:	98	Resp:	280068
Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.0	79.4

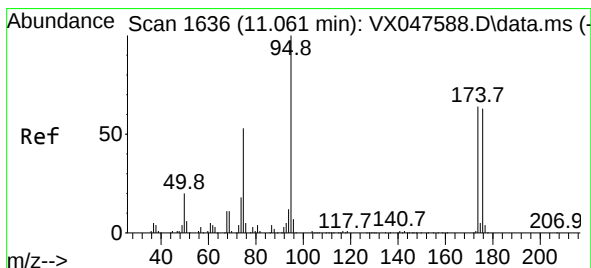
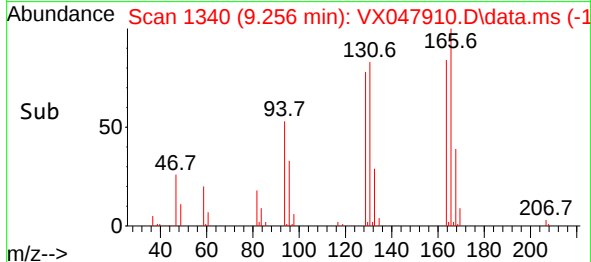
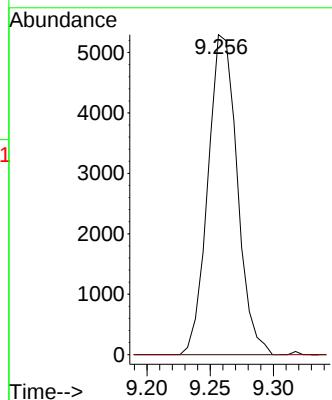
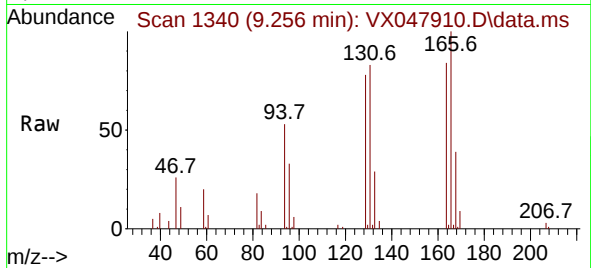




#60
Dibromochloromethane
Concen: 4.182 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

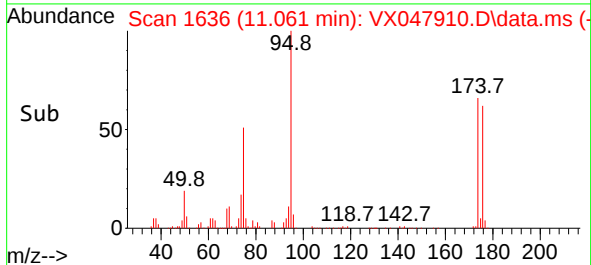
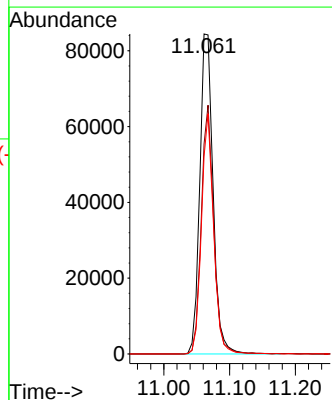
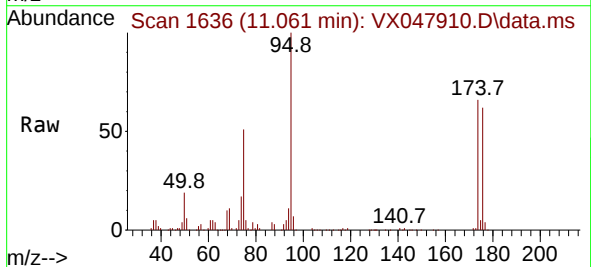
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922

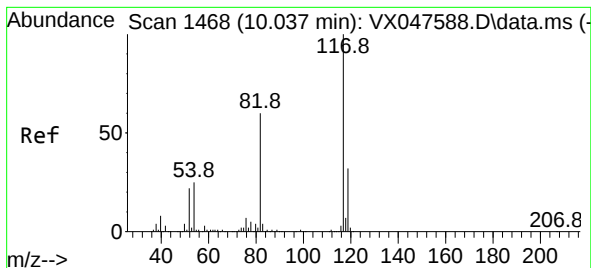
Tgt Ion:129 Resp: 8537
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 53.917 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

Tgt Ion: 95 Resp: 118987
Ion Ratio Lower Upper
95 100
174 72.7 0.0 141.6
176 68.7 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: VX047910.D

Acq: 30 Sep 2025 14:58

Instrument :

MSVOA_X

ClientSampleId :

RW4-20250922

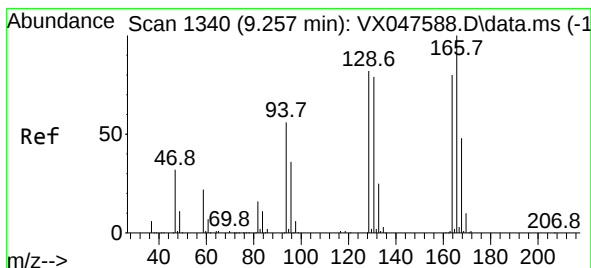
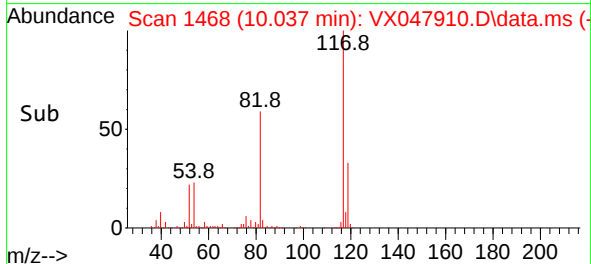
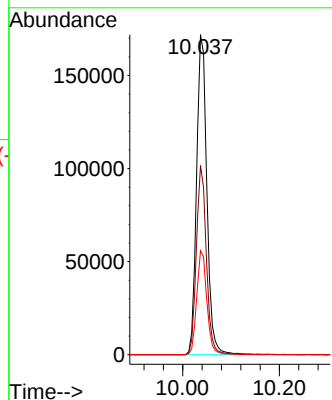
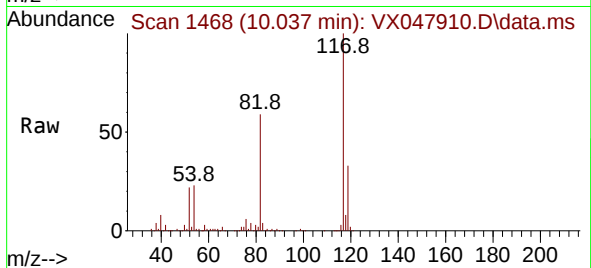
Tgt Ion:117 Resp: 253514

Ion Ratio Lower Upper

117 100

82 59.1 47.8 71.6

119 32.5 25.2 37.8



#64

Tetrachloroethene

Concen: 5.220 ug/l

RT: 9.256 min Scan# 1340

Delta R.T. -0.000 min

Lab File: VX047910.D

Acq: 30 Sep 2025 14:58

Tgt Ion:164 Resp: 8627

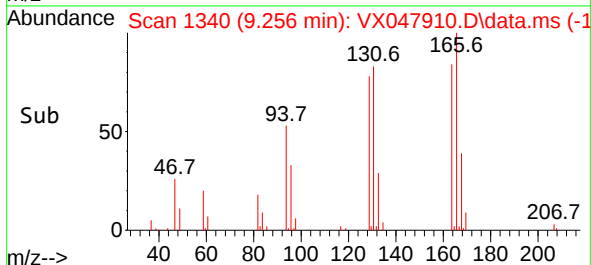
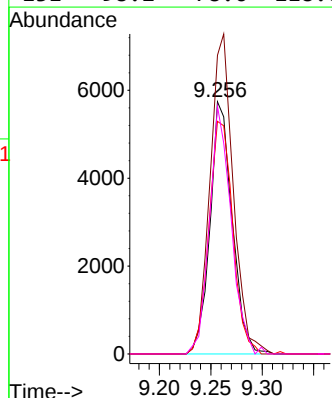
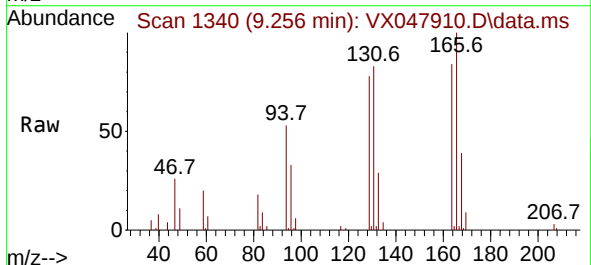
Ion Ratio Lower Upper

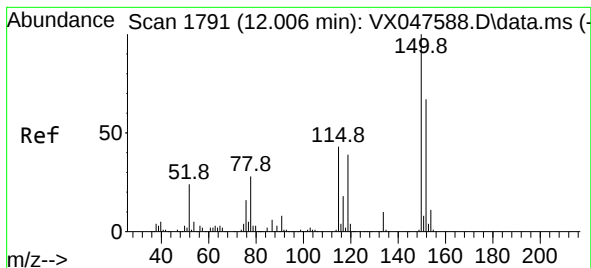
164 100

166 118.4 100.2 150.2

129 92.2 81.8 122.6

131 98.2 78.6 118.0

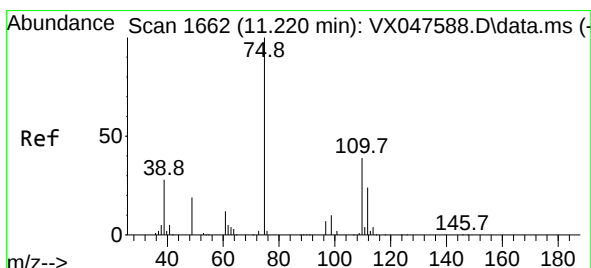
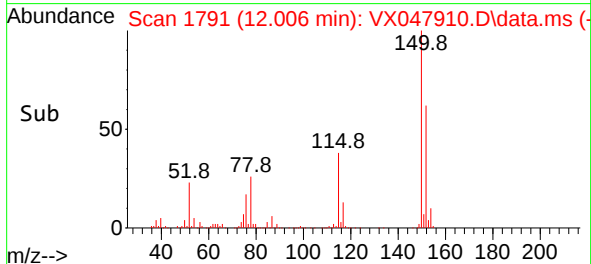
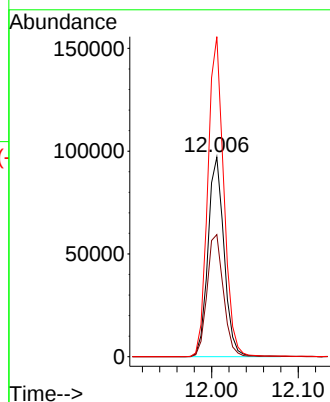
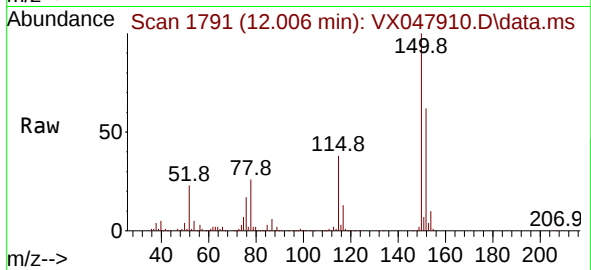




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX047910.D
 Acq: 30 Sep 2025 14:58

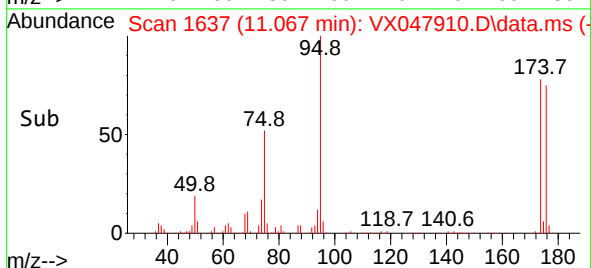
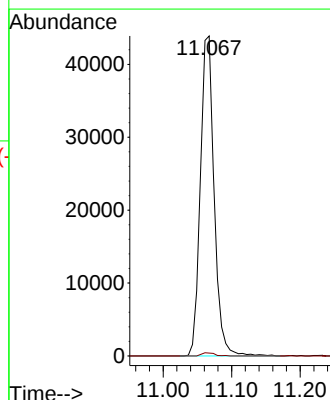
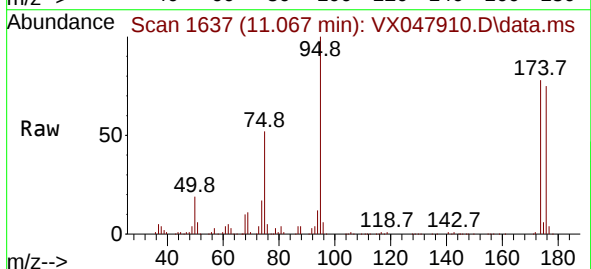
Instrument :
 MSVOA_X
 ClientSampleId :
 RW4-20250922

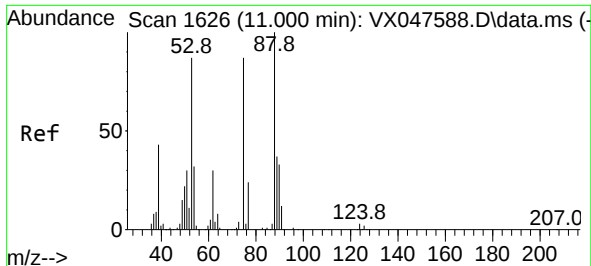
Tgt Ion:152 Resp: 125109
 Ion Ratio Lower Upper
 152 100
 115 62.6 44.9 134.5
 150 159.0 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 24.370 ug/l
 RT: 11.067 min Scan# 1637
 Delta R.T. -0.152 min
 Lab File: VX047910.D
 Acq: 30 Sep 2025 14:58

Tgt Ion: 75 Resp: 61730
 Ion Ratio Lower Upper
 75 100
 77 0.9 18.8 56.4#

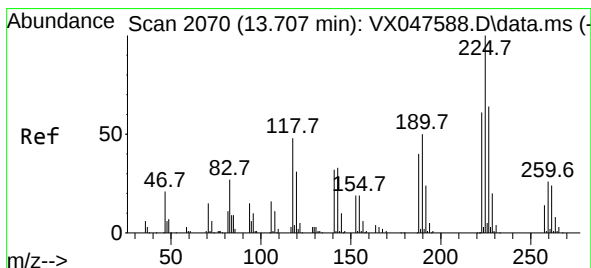
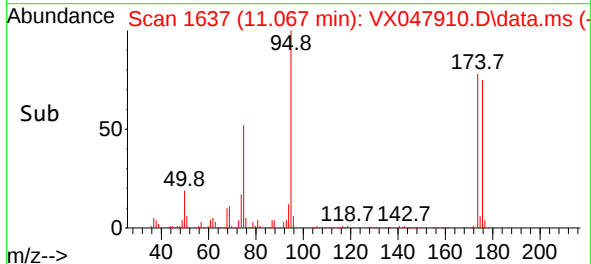
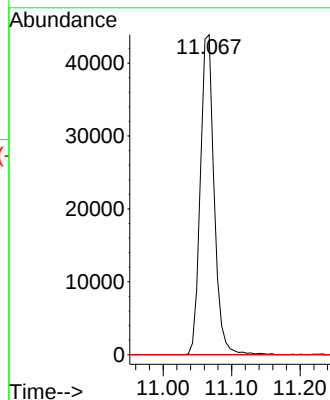
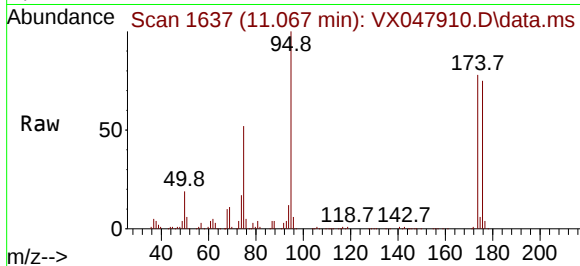




#81
trans-1,4-Dichloro-2-butene
Concen: 62.146 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.067 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922

Tgt Ion: 75 Resp: 61730
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#94
Hexachlorobutadiene
Concen: 0.356 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047910.D
Acq: 30 Sep 2025 14:58

Tgt Ion: 225 Resp: 326
Ion Ratio Lower Upper
225 100
223 62.0 31.7 95.1
227 58.0 32.0 96.0

