

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100125\
 Data File : VX047929.D
 Acq On : 01 Oct 2025 11:20
 Operator : JC/MD
 Sample : Q3193-06DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RW4-20250922DL

Quant Time: Oct 03 01:17:11 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)

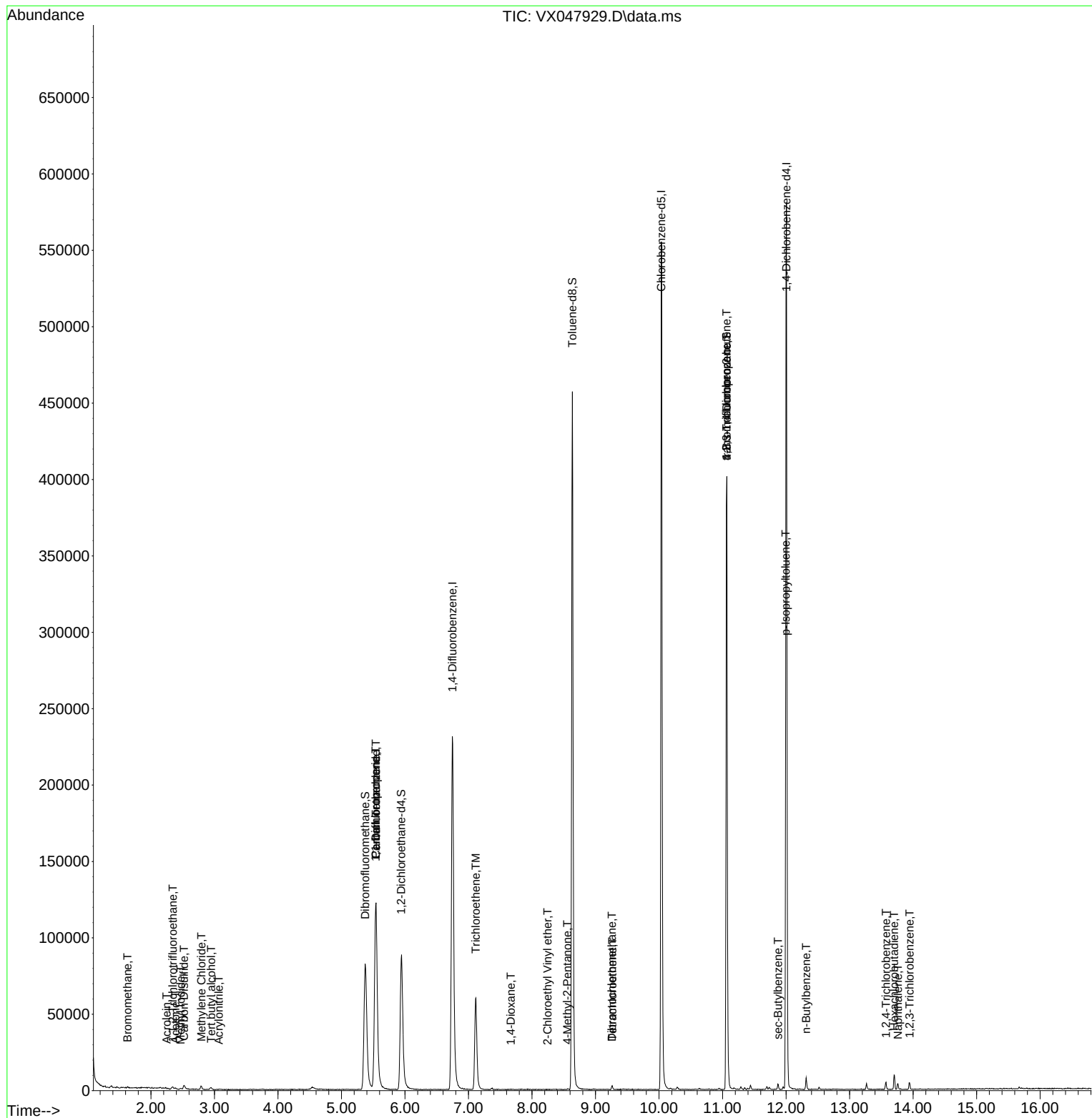
Internal Standards						
1) Pentafluorobenzene	5.544	168	124052	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	250181	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	254599	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	121354	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	96884	49.065	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	98.140%
35) Dibromofluoromethane	5.373	113	81226	48.411	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.820%
50) Toluene-d8	8.635	98	281463	48.480	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	96.960%
62) 4-Bromofluorobenzene	11.061	95	116365	52.812	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	105.620%
Target Compounds						
					Qvalue	
5) Bromomethane	1.630	94	293	0.280	ug/l	81
9) 1,1,2-Trichlorotrifluo...	2.343	101	740	0.516	ug/l #	89
10) Methyl Iodide	2.465	142	1136	0.508	ug/l #	86
11) Tert butyl alcohol	2.947	59	705	3.206	ug/l #	72
13) Acrolein	2.245	56	44	0.217	ug/l #	71
15) Acrylonitrile	3.068	53	195	0.239	ug/l #	29
16) Acetone	2.386	43	994	1.158	ug/l #	86
17) Carbon Disulfide	2.520	76	1188	0.294	ug/l #	87
20) Methylene Chloride	2.794	84	938	0.516	ug/l #	82
36) 1,1-Dichloropropene	5.538	75	10273	4.190	ug/l #	46
38) Carbon Tetrachloride	5.544	117	13224	4.964	ug/l #	19
44) Trichloroethene	7.117	130	25236	14.018	ug/l	99
49) 1,4-Dioxane	7.665	88	55	2.538	ug/l #	21
51) 4-Methyl-2-Pentanone	8.555	43	529	0.222	ug/l #	62
58) 2-Chloroethyl Vinyl ether	8.244	63	25	7.911	ug/l #	47
60) Dibromochloromethane	9.256	129	416	0.204	ug/l #	11
64) Tetrachloroethene	9.262	164	413	0.249	ug/l #	70
76) 1,2,3-Trichloropropane	11.061	75	59880	24.371	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	59880	62.149	ug/l #	8
85) sec-Butylbenzene	11.872	105	1956	0.212	ug/l	99
86) p-Isopropyltoluene	11.994	119	1917	0.246	ug/l	88
89) n-Butylbenzene	12.317	91	2842	0.394	ug/l	94
93) 1,2,4-Trichlorobenzene	13.573	180	1309	0.501	ug/l	93
94) Hexachlorobutadiene	13.701	225	1486	1.674	ug/l	91
95) Naphthalene	13.762	128	2686	0.338	ug/l #	88
96) 1,2,3-Trichlorobenzene	13.945	180	1271	0.523	ug/l	96

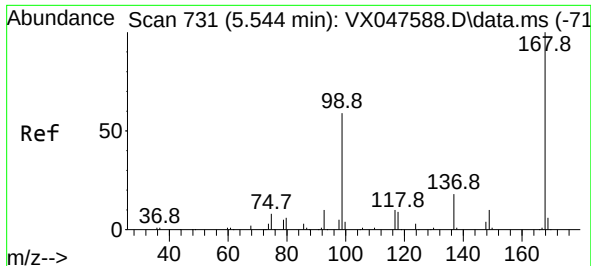
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100125\
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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

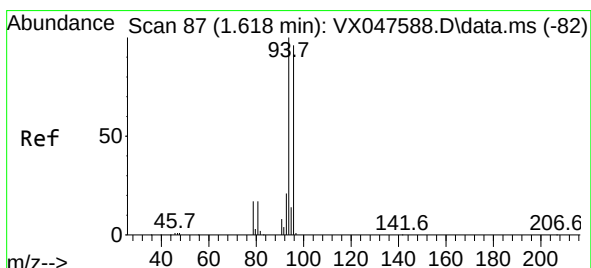
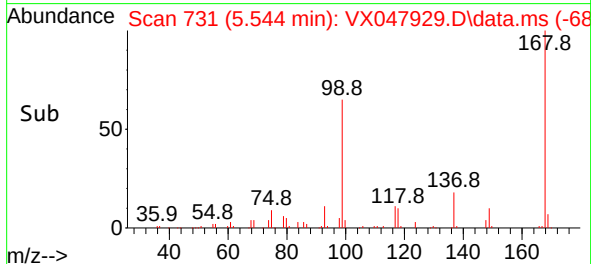
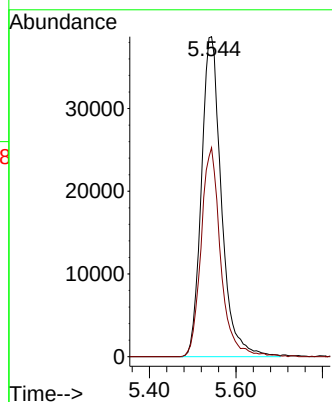
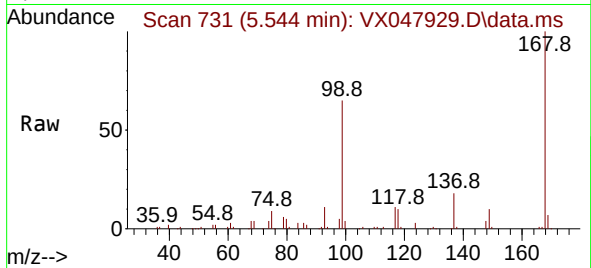




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

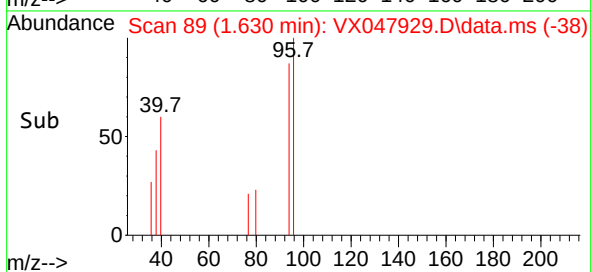
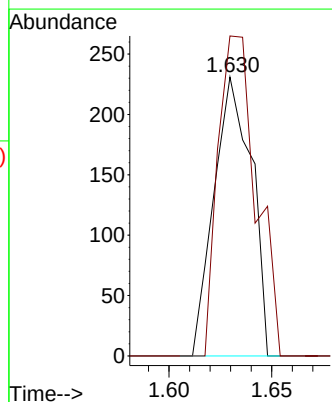
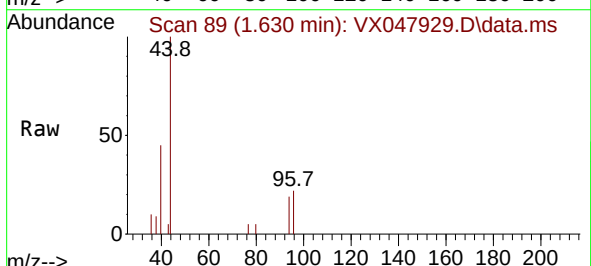
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922DL

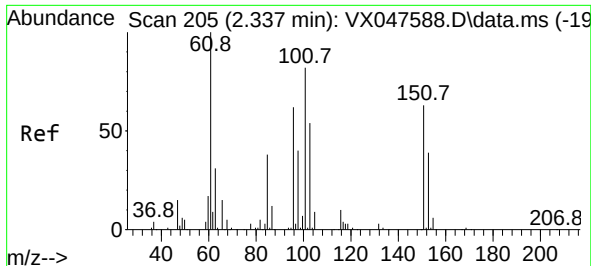
Tgt Ion:168 Resp: 124052
Ion Ratio Lower Upper
168 100
99 65.3 48.8 73.2



#5
Bromomethane
Concen: 0.280 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

Tgt Ion: 94 Resp: 293
Ion Ratio Lower Upper
94 100
96 114.7 76.6 115.0

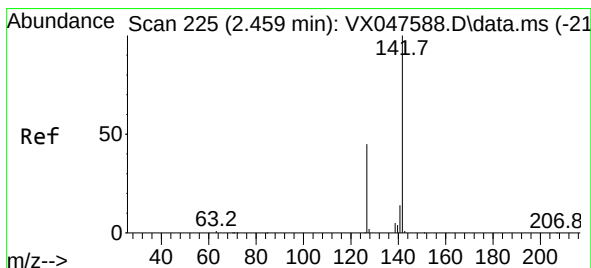
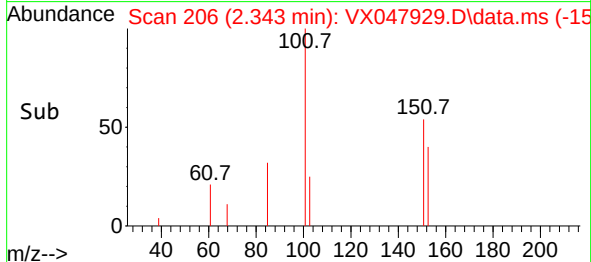
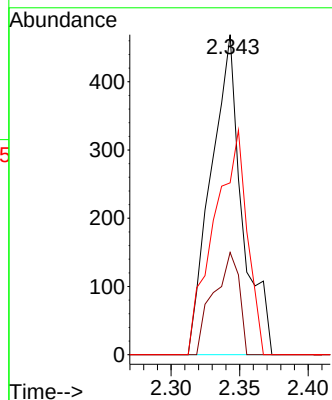
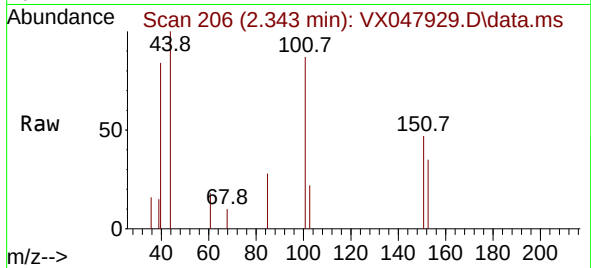




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.516 ug/l
RT: 2.343 min Scan# 205
Delta R.T. 0.006 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

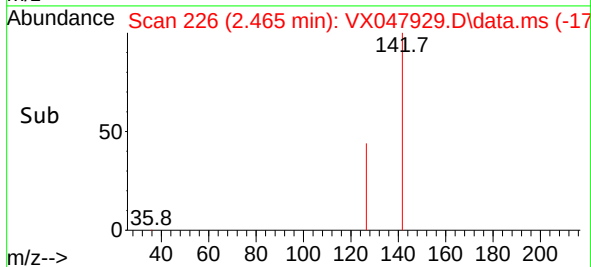
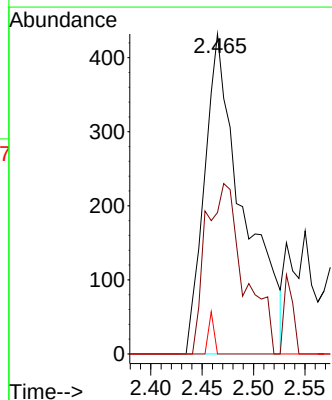
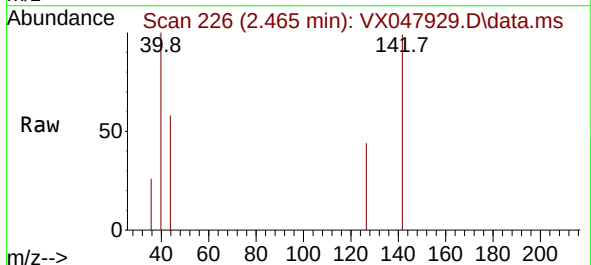
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922DL

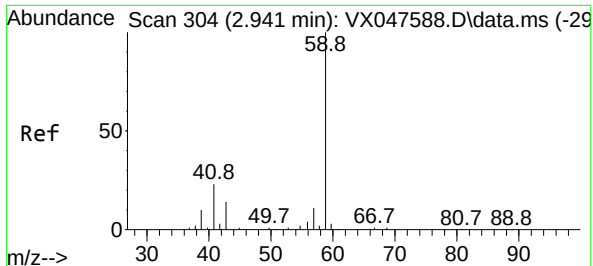
Tgt Ion:101 Resp: 740
Ion Ratio Lower Upper
101 100
85 26.4 35.5 53.3#
151 74.7 59.4 89.0



#10
Methyl Iodide
Concen: 0.508 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

Tgt Ion:142 Resp: 1136
Ion Ratio Lower Upper
142 100
127 52.6 37.2 55.8
141 1.8 11.4 17.0#





#11

Tert butyl alcohol

Concen: 3.206 ug/l

RT: 2.947 min Scan# 304

Delta R.T. 0.006 min

Lab File: VX047929.D

Acq: 01 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

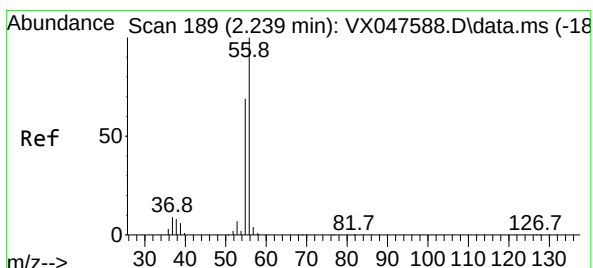
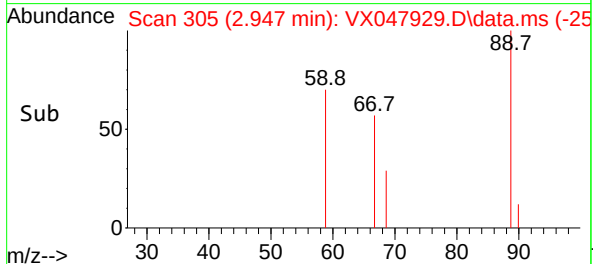
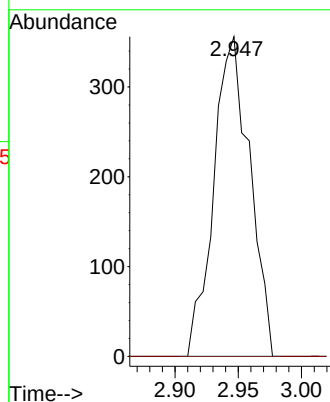
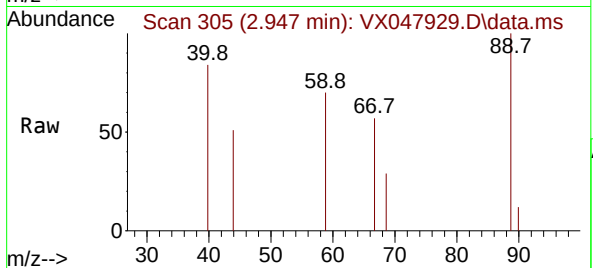
RW4-20250922DL

Tgt Ion: 59 Resp: 705

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.217 ug/l

RT: 2.245 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX047929.D

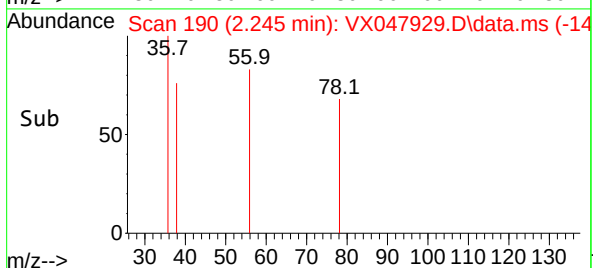
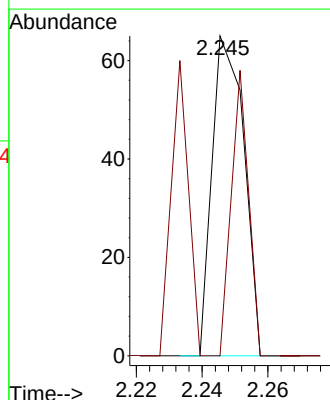
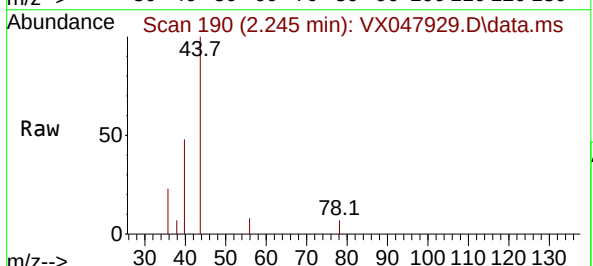
Acq: 01 Oct 2025 11:20

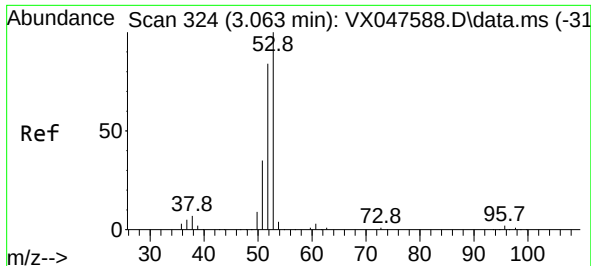
Tgt Ion: 56 Resp: 44

Ion Ratio Lower Upper

56 100

55 47.7 57.2 85.8#

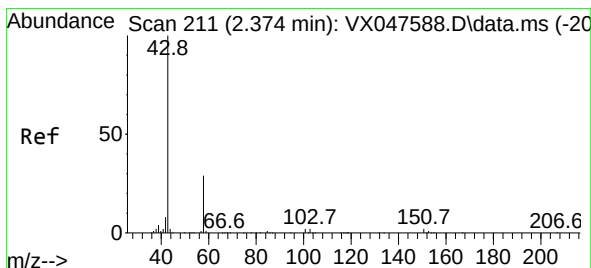
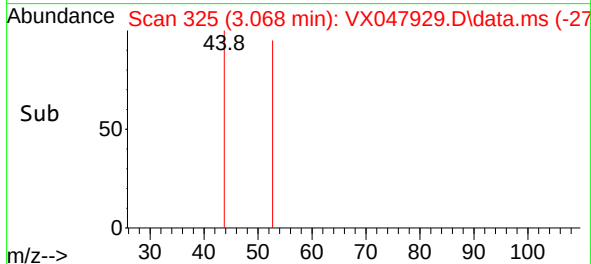
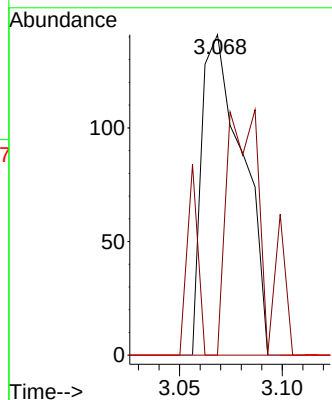
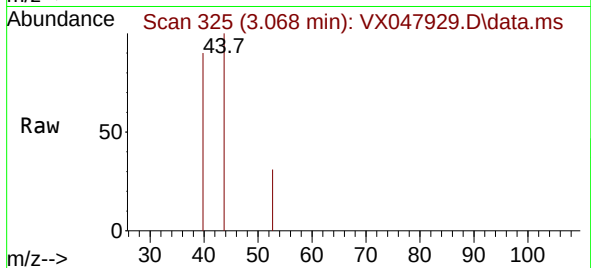




#15
Acrylonitrile
Concen: 0.239 ug/l
RT: 3.068 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

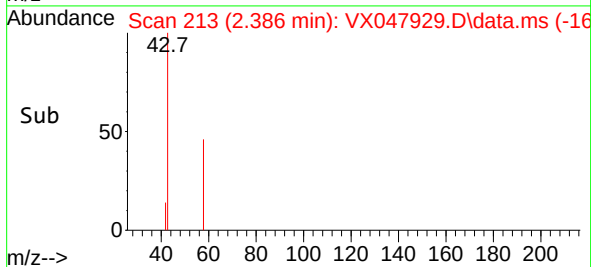
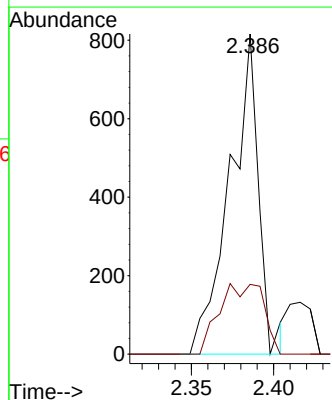
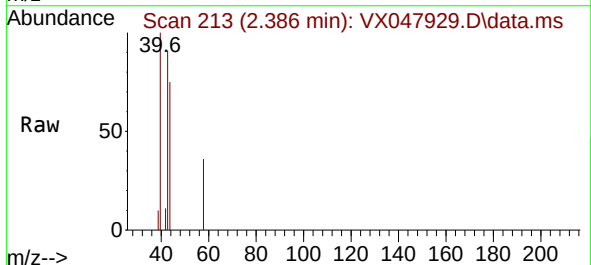
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922DL

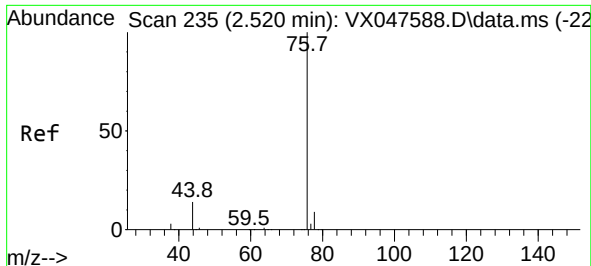
Tgt Ion: 53 Resp: 195
Ion Ratio Lower Upper
53 100
52 15.9 66.4 99.6#
51 0.0 29.5 44.3#



#16
Acetone
Concen: 1.158 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.012 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

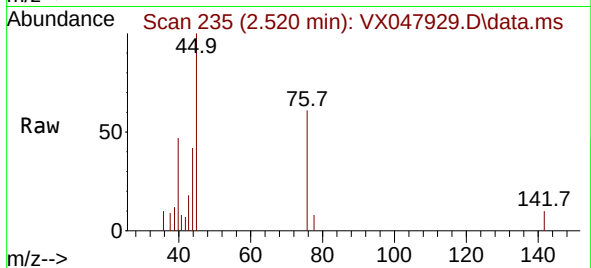
Tgt Ion: 43 Resp: 994
Ion Ratio Lower Upper
43 100
58 21.8 23.4 35.0#



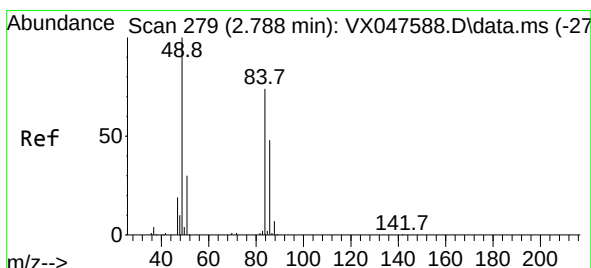
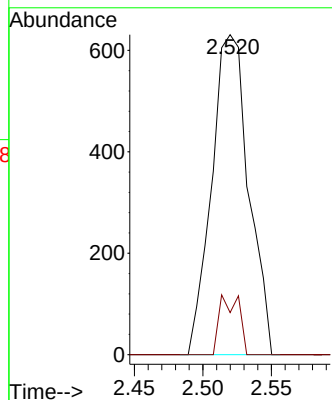
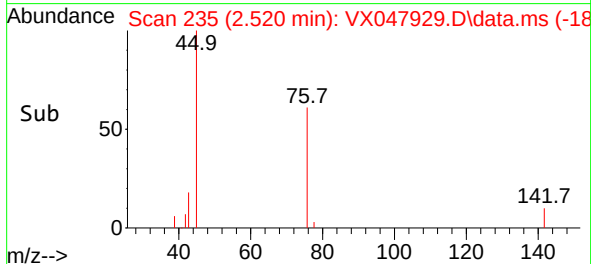


#17
Carbon Disulfide
Concen: 0.294 ug/l
RT: 2.520 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

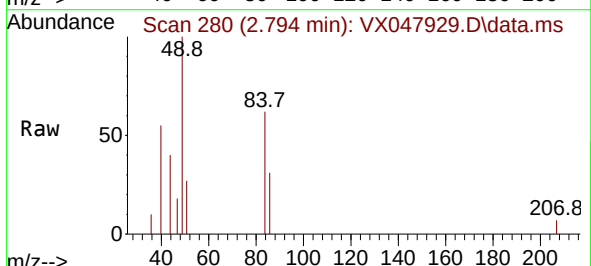
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922DL



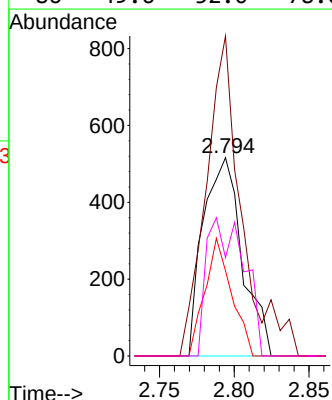
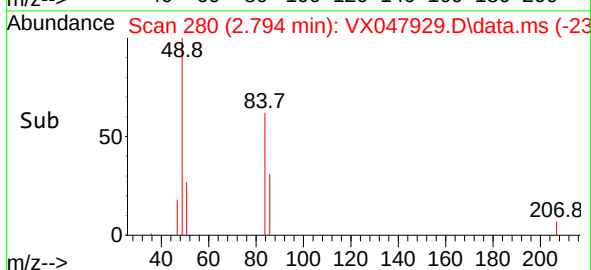
Tgt Ion: 76 Resp: 1188
Ion Ratio Lower Upper
76 100
78 13.2 6.8 10.2#

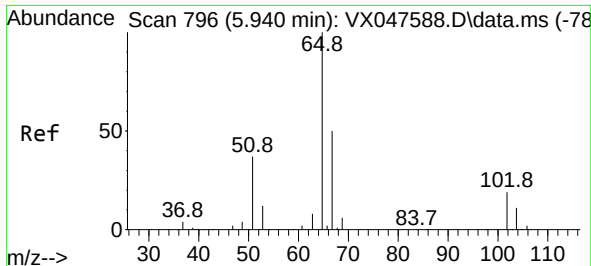


#20
Methylene Chloride
Concen: 0.516 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20



Tgt Ion: 84 Resp: 938
Ion Ratio Lower Upper
84 100
49 161.4 108.6 162.8
51 43.0 32.6 48.8
86 49.6 52.0 78.0#





#33

1,2-Dichloroethane-d4

Concen: 49.065 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX047929.D

Acq: 01 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

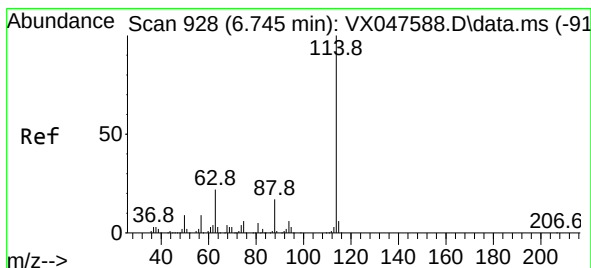
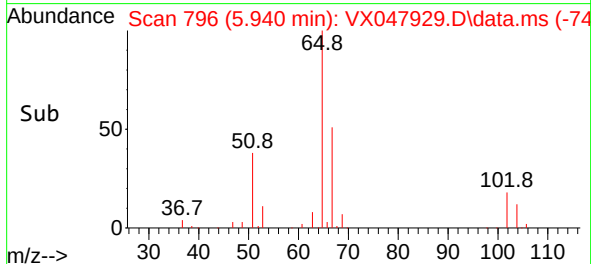
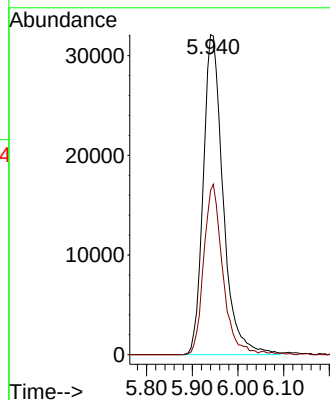
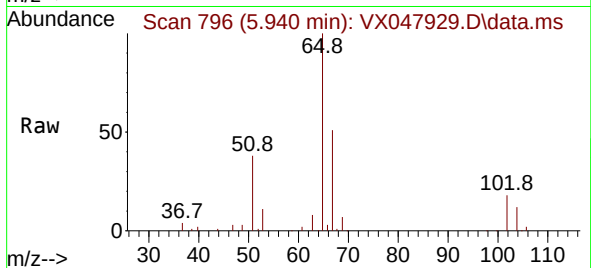
RW4-20250922DL

Tgt Ion: 65 Resp: 96884

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: VX047929.D

Acq: 01 Oct 2025 11:20

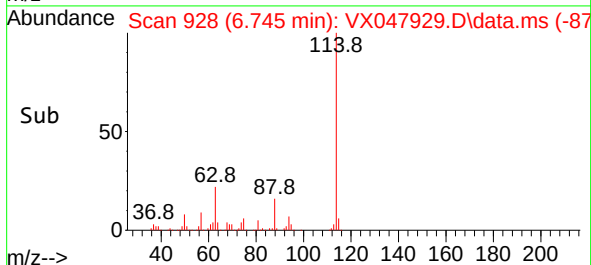
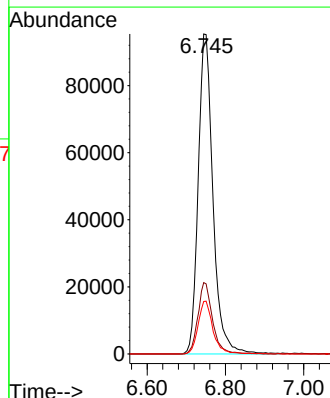
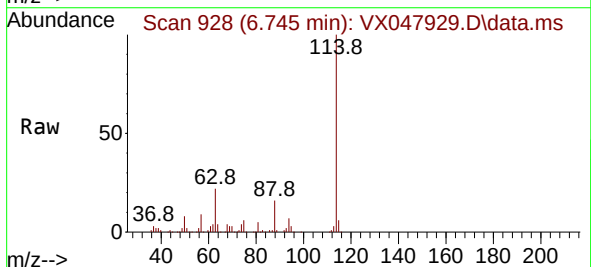
Tgt Ion: 114 Resp: 250181

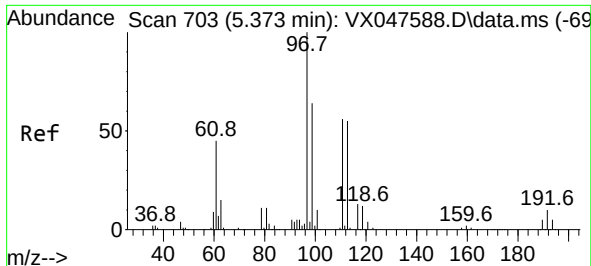
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 16.4 0.0 34.2

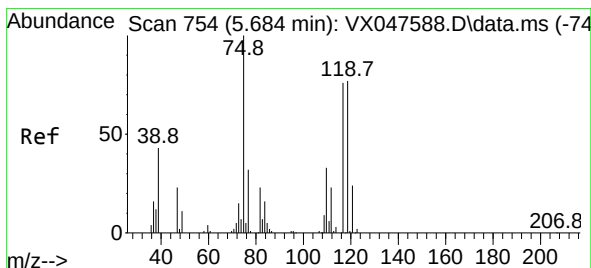
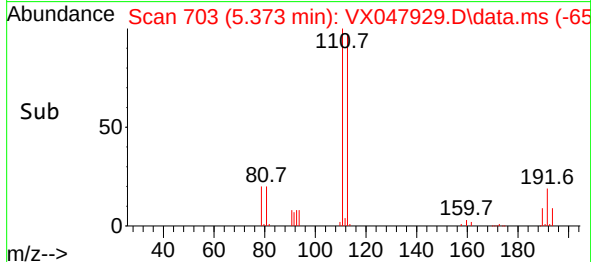
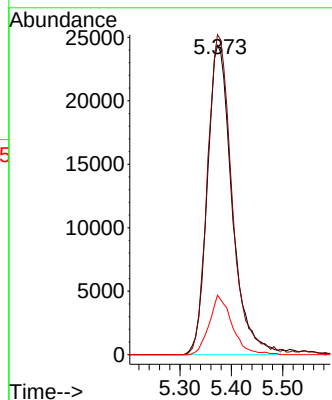
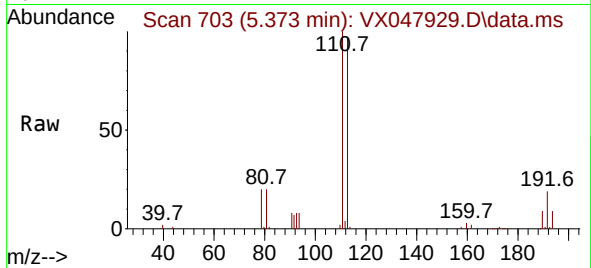




#35
Dibromofluoromethane
Concen: 48.411 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

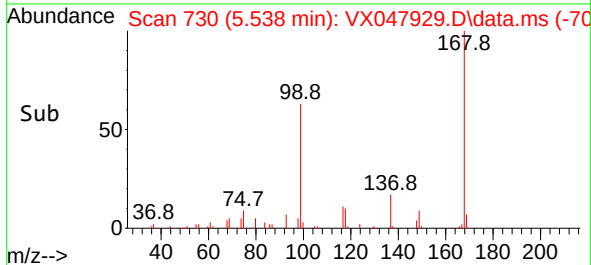
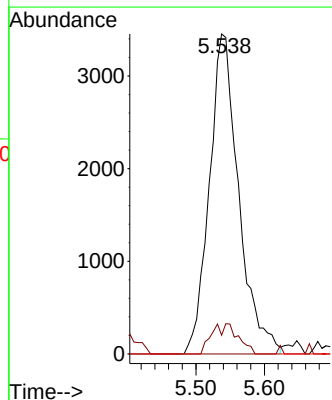
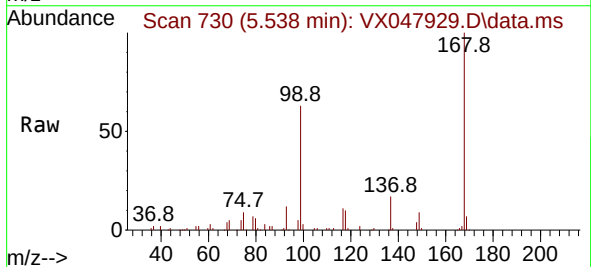
Instrument :
MSVOA_X
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RW4-20250922DL

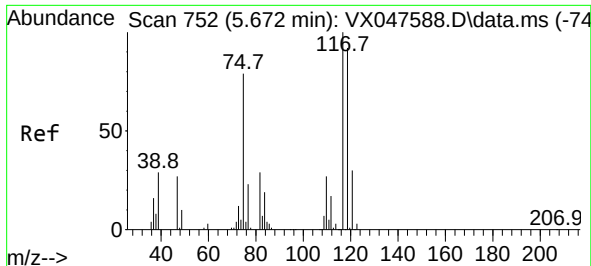
Tgt Ion:113 Resp: 81226
Ion Ratio Lower Upper
113 100
111 103.0 80.9 121.3
192 17.9 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.190 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.146 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

Tgt Ion: 75 Resp: 10273
Ion Ratio Lower Upper
75 100
110 3.8 16.7 50.1#
77 0.0 24.3 36.5#

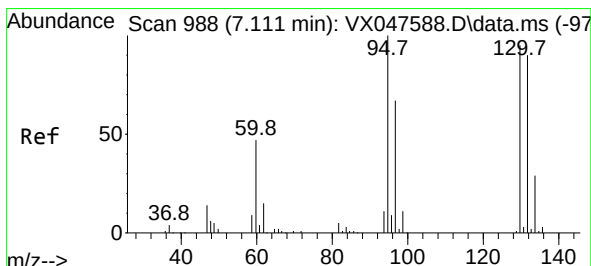
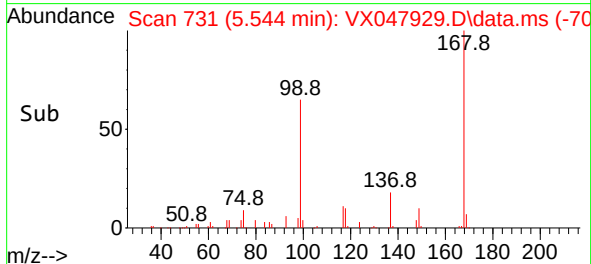
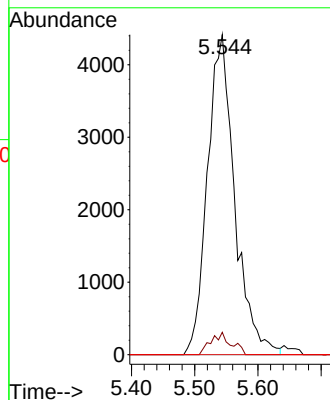
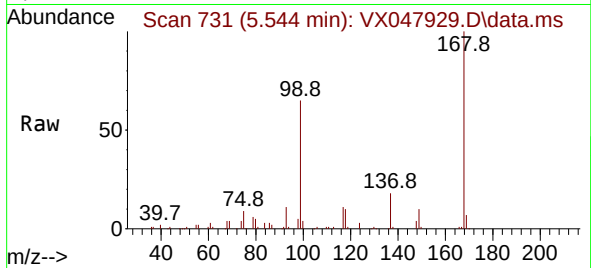




#38
Carbon Tetrachloride
Concen: 4.964 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

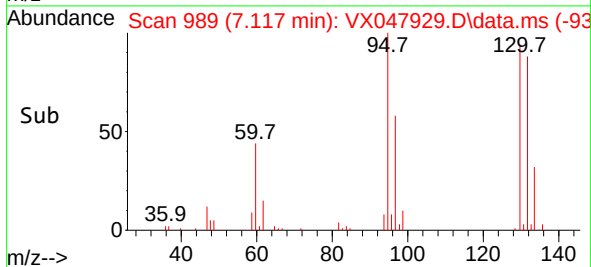
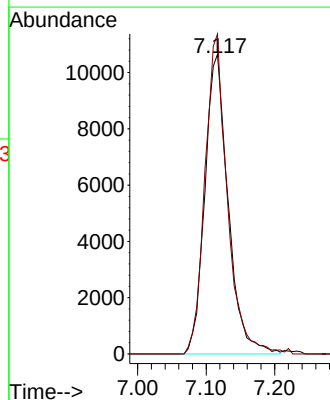
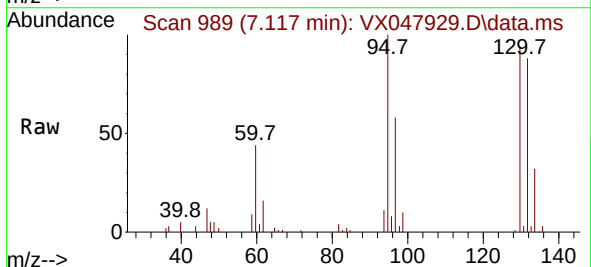
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922DL

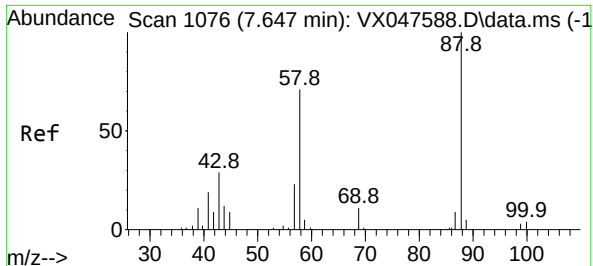
Tgt Ion:117 Resp: 13224
Ion Ratio Lower Upper
117 100
119 7.0 73.4 110.2#
121 0.0 23.8 35.6#



#44
Trichloroethene
Concen: 14.018 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

Tgt Ion:130 Resp: 25236
Ion Ratio Lower Upper
130 100
95 106.8 0.0 210.8





#49

1,4-Dioxane

Concen: 2.538 ug/l

RT: 7.665 min Scan# 1076

Delta R.T. 0.018 min

Lab File: VX047929.D

Acq: 01 Oct 2025 11:20

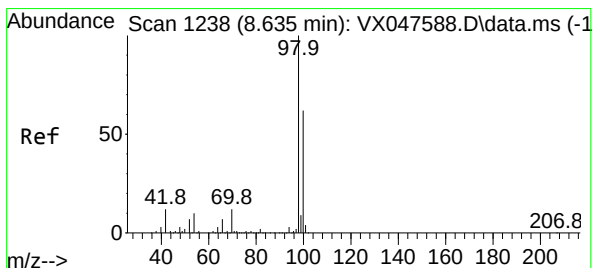
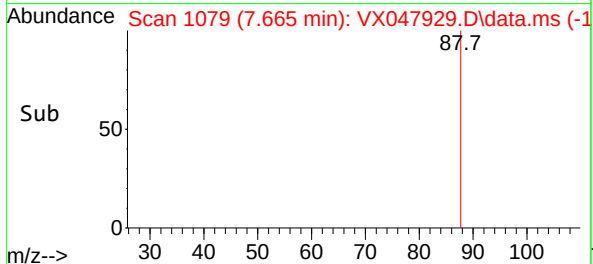
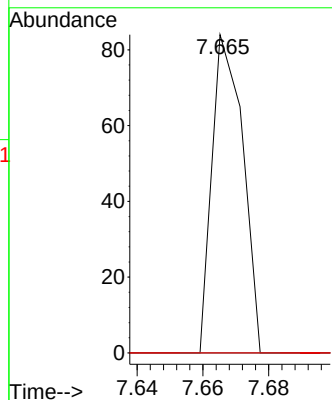
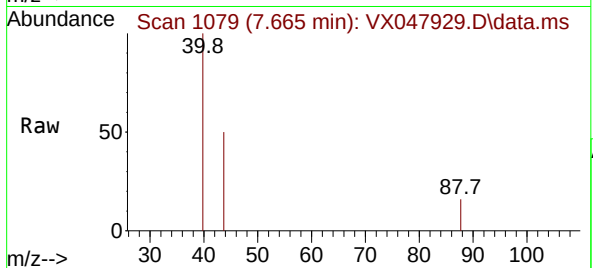
Instrument :

MSVOA_X

ClientSampleId :

RW4-20250922DL

Tgt Ion:	88	Resp:	55
Ion	Ratio	Lower	Upper
88	100		
43	0.0	30.2	45.2#
58	0.0	59.5	89.3#



#50

Toluene-d8

Concen: 48.480 ug/l

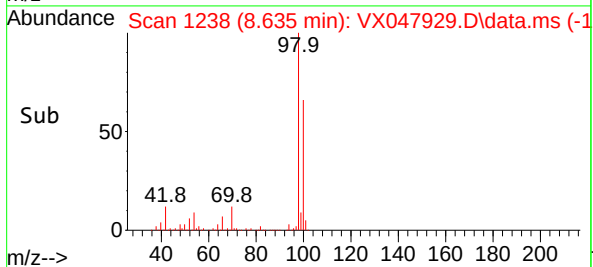
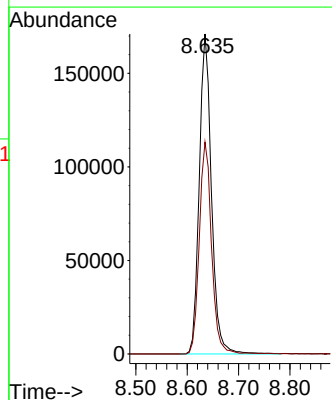
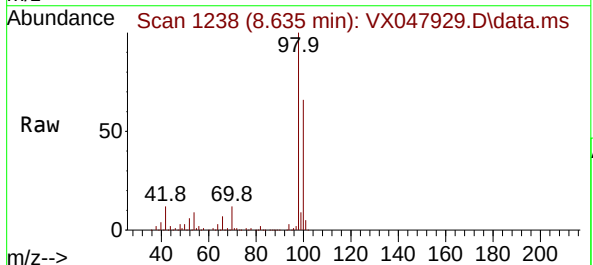
RT: 8.635 min Scan# 1238

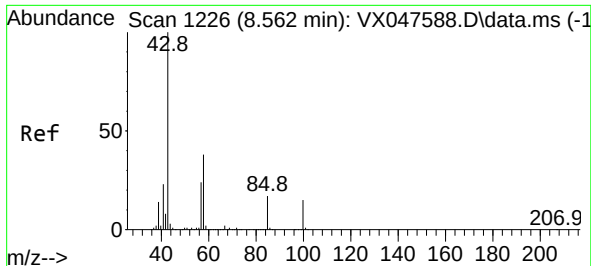
Delta R.T. -0.000 min

Lab File: VX047929.D

Acq: 01 Oct 2025 11:20

Tgt Ion:	98	Resp:	281463
Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.0	79.4

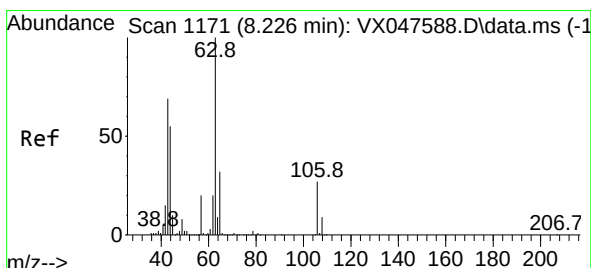
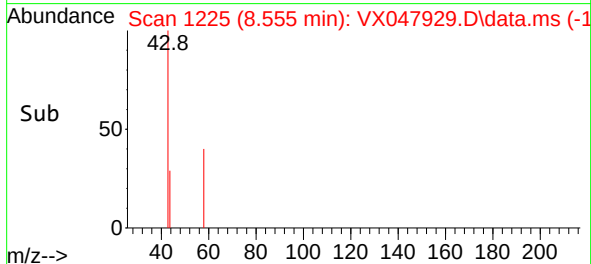
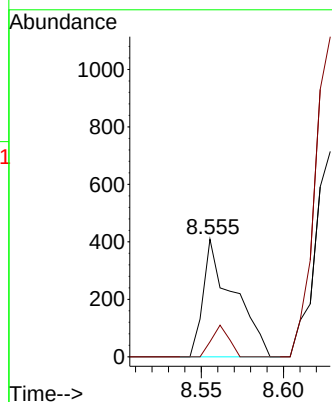
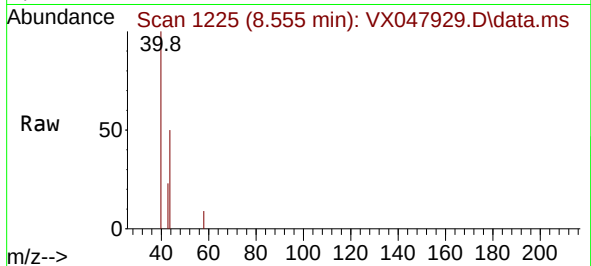




#51
4-Methyl-2-Pentanone
Concen: 0.222 ug/l
RT: 8.555 min Scan# 1174
Delta R.T. -0.006 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

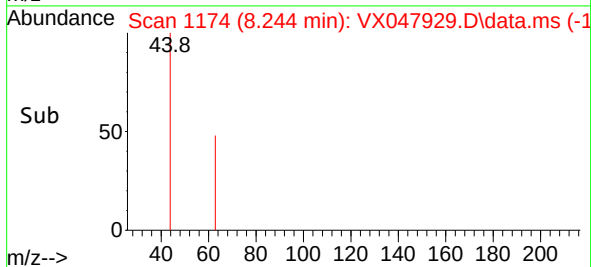
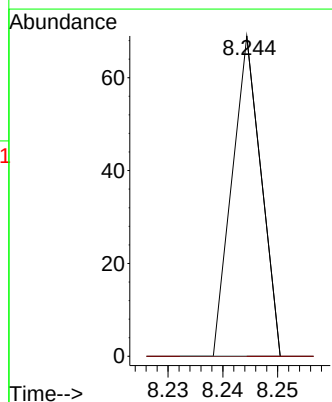
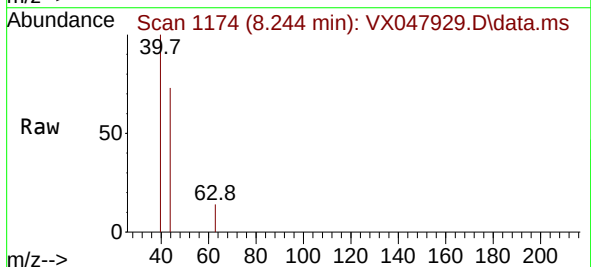
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922DL

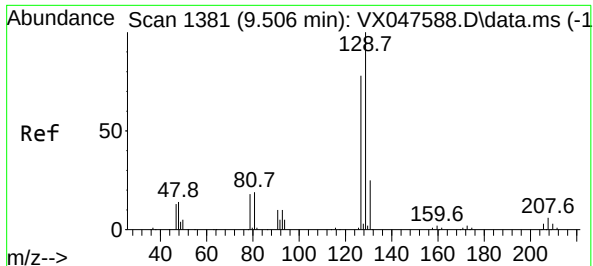
Tgt Ion: 43 Resp: 529
Ion Ratio Lower Upper
43 100
58 15.1 30.3 45.5#



#58
2-Chloroethyl Vinyl ether
Concen: 7.911 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.018 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

Tgt Ion: 63 Resp: 25
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#

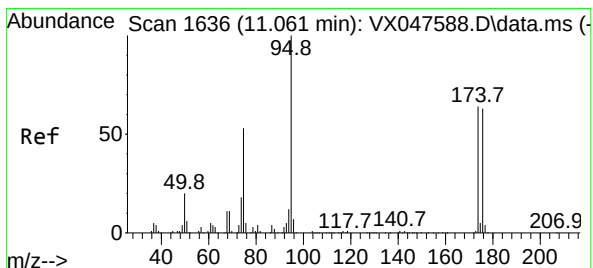
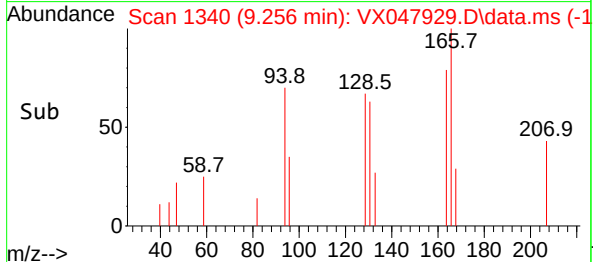
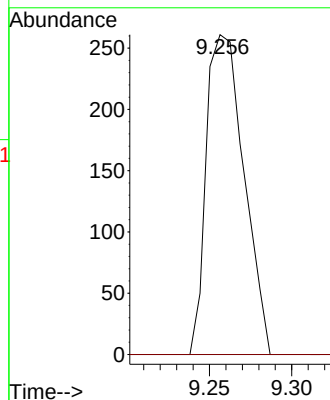
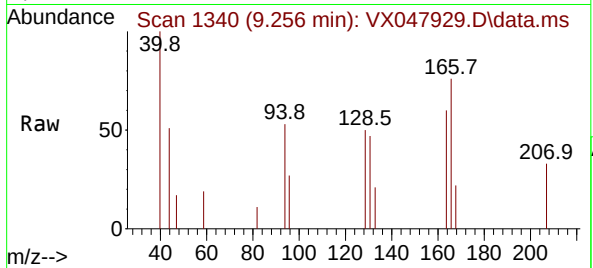




#60
Dibromochloromethane
Concen: 0.204 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

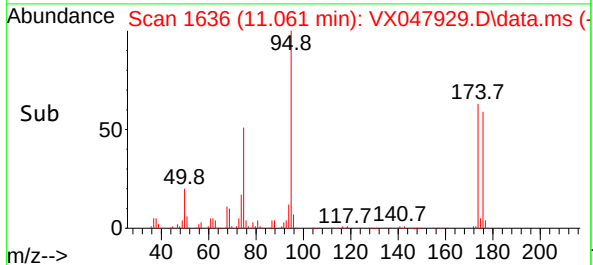
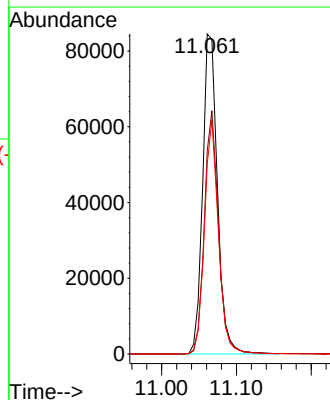
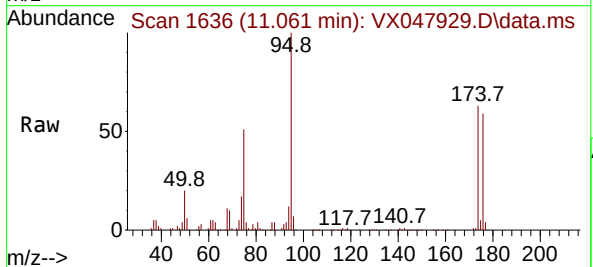
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922DL

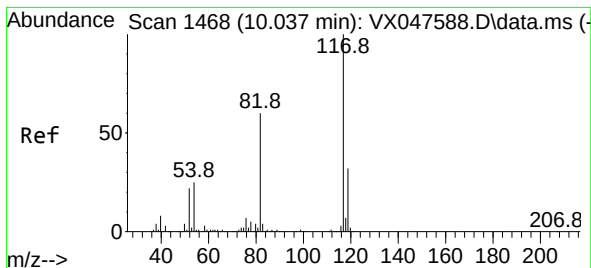
Tgt Ion:129 Resp: 416
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 52.812 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

Tgt Ion: 95 Resp: 116365
Ion Ratio Lower Upper
95 100
174 73.0 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: VX047929.D

Acq: 01 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

RW4-20250922DL

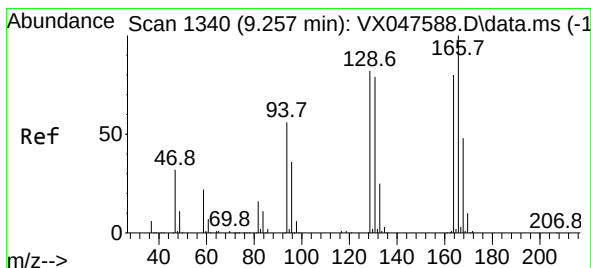
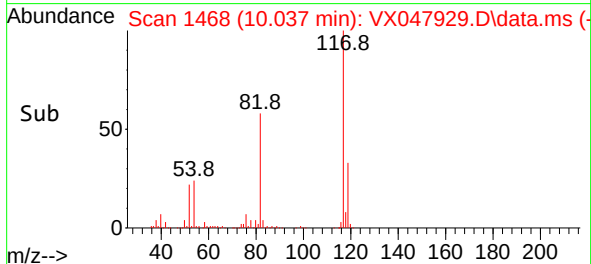
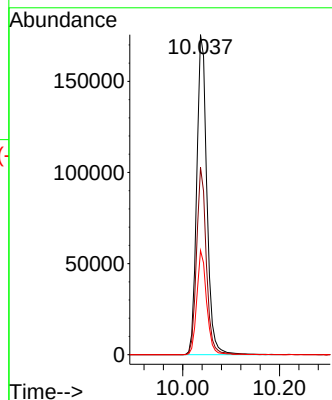
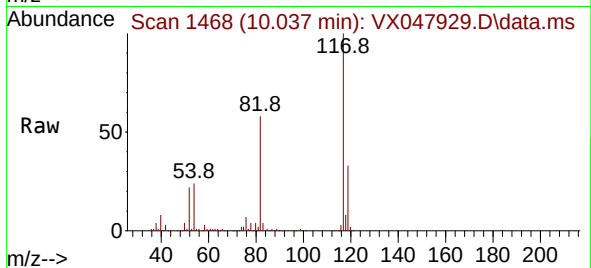
Tgt Ion:117 Resp: 254599

Ion Ratio Lower Upper

117 100

82 58.5 47.8 71.6

119 32.6 25.2 37.8



#64

Tetrachloroethene

Concen: 0.249 ug/l

RT: 9.262 min Scan# 1341

Delta R.T. 0.006 min

Lab File: VX047929.D

Acq: 01 Oct 2025 11:20

Tgt Ion:164 Resp: 413

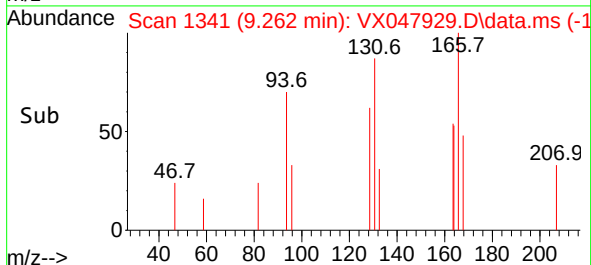
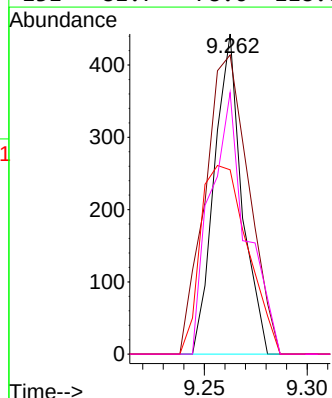
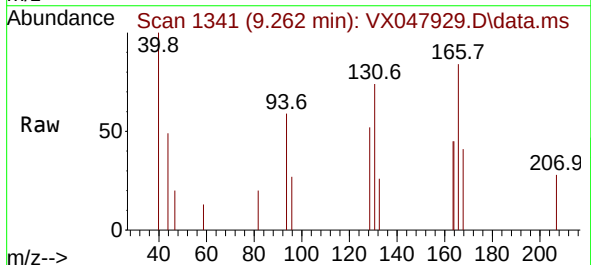
Ion Ratio Lower Upper

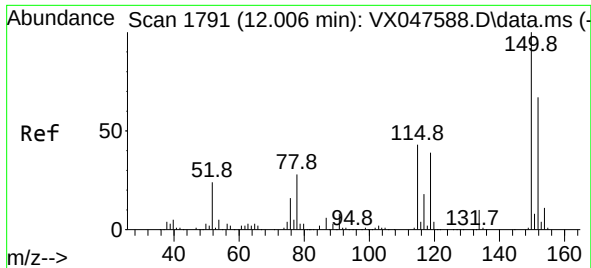
164 100

166 93.5 100.2 150.2#

129 57.6 81.8 122.6#

131 81.7 78.6 118.0

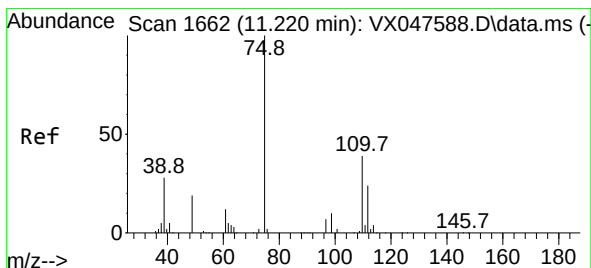
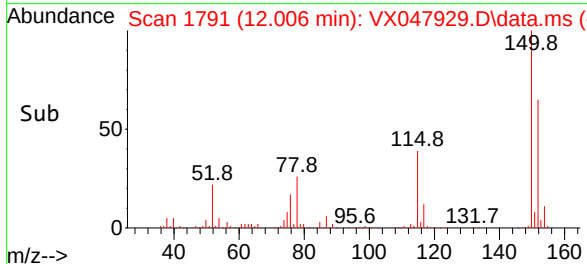
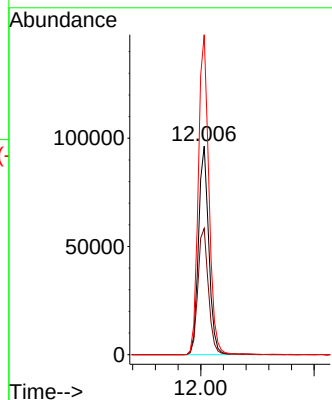
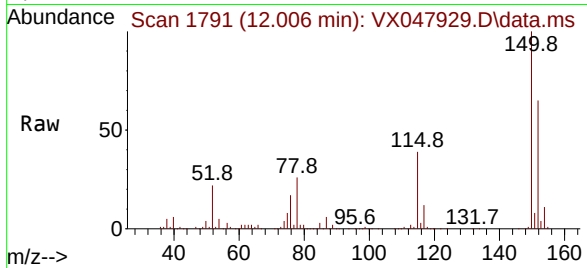




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VX047929.D
 Acq: 01 Oct 2025 11:20

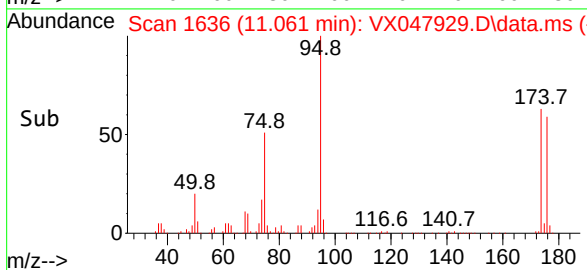
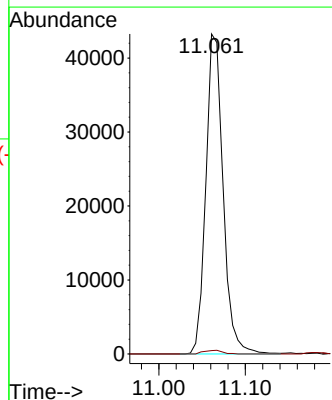
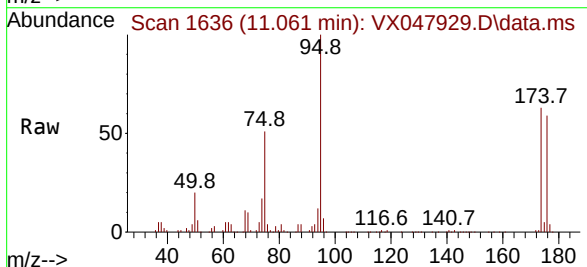
Instrument :
 MSVOA_X
 ClientSampleId :
 RW4-20250922DL

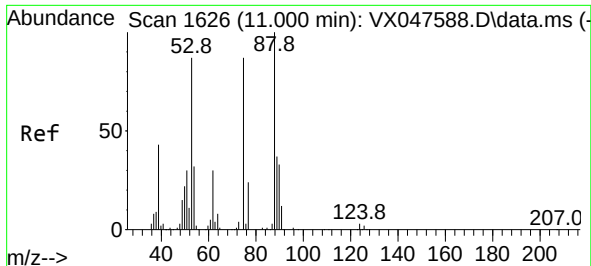
Tgt Ion:152 Resp: 121354
 Ion Ratio Lower Upper
 152 100
 115 62.3 44.9 134.5
 150 156.9 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 24.371 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX047929.D
 Acq: 01 Oct 2025 11:20

Tgt Ion: 75 Resp: 59880
 Ion Ratio Lower Upper
 75 100
 77 1.2 18.8 56.4#

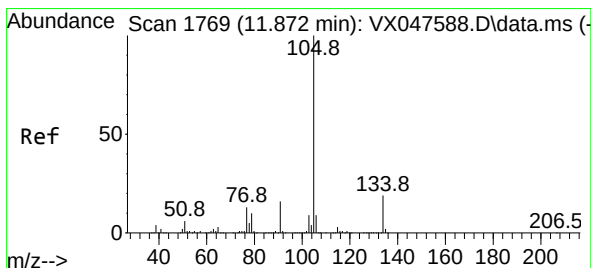
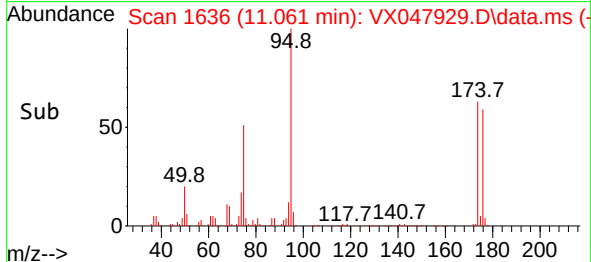
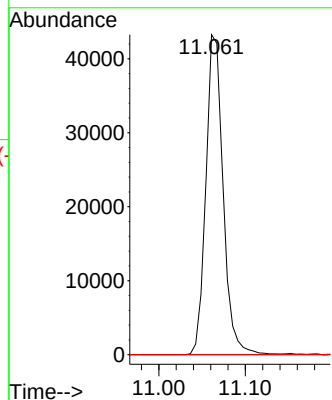
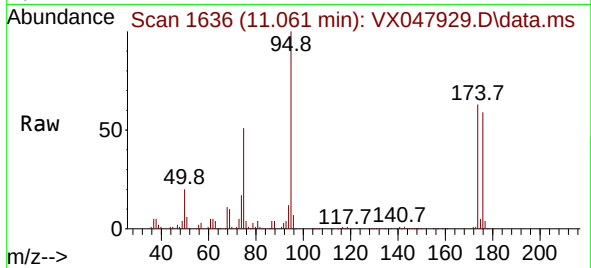




#81
trans-1,4-Dichloro-2-butene
Concen: 62.149 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

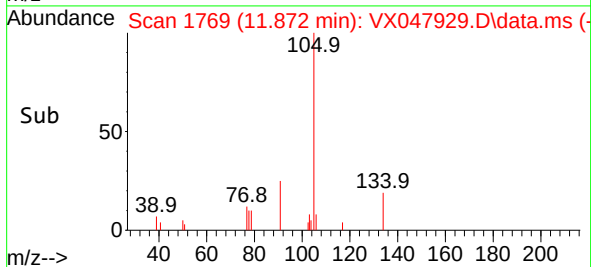
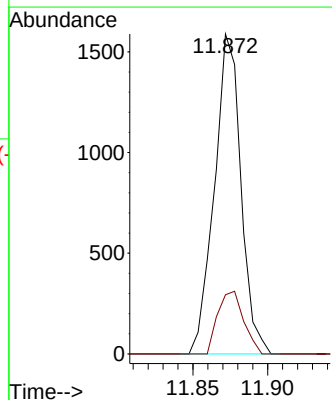
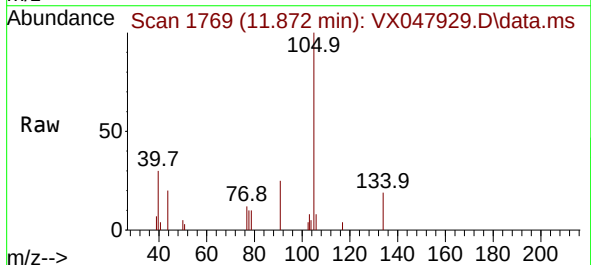
Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922DL

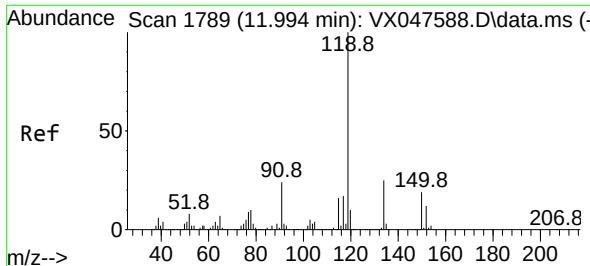
Tgt Ion: 75 Resp: 59880
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#85
sec-Butylbenzene
Concen: 0.212 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

Tgt Ion: 105 Resp: 1956
Ion Ratio Lower Upper
105 100
134 19.1 9.8 29.5

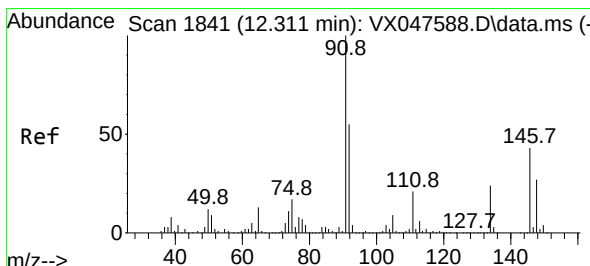
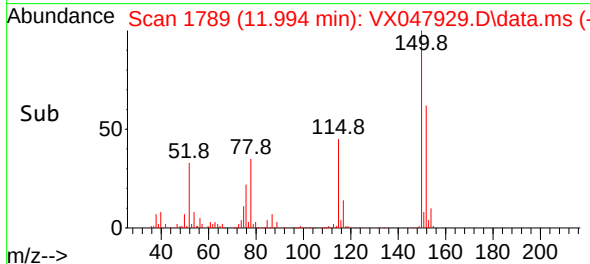
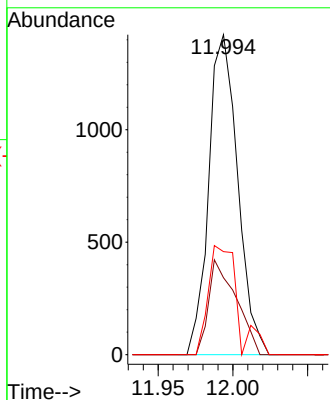
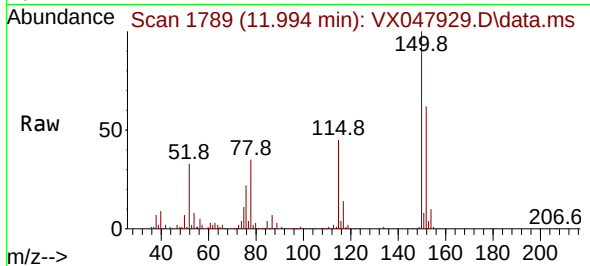




#86
 p-Isopropyltoluene
 Concen: 0.246 ug/l
 RT: 11.994 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX047929.D
 Acq: 01 Oct 2025 11:20

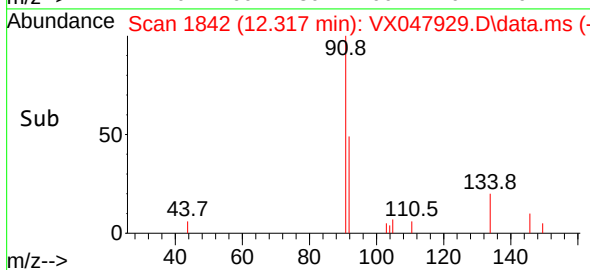
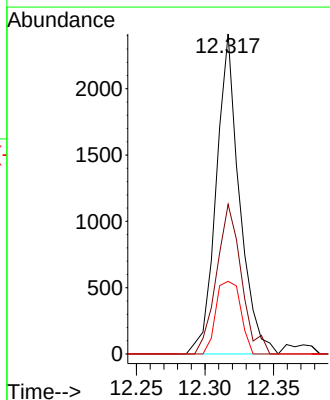
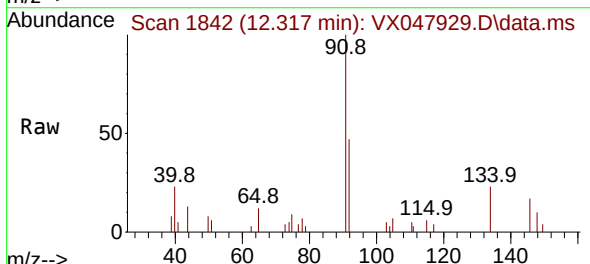
Instrument :
 MSVOA_X
 ClientSampleId :
 RW4-20250922DL

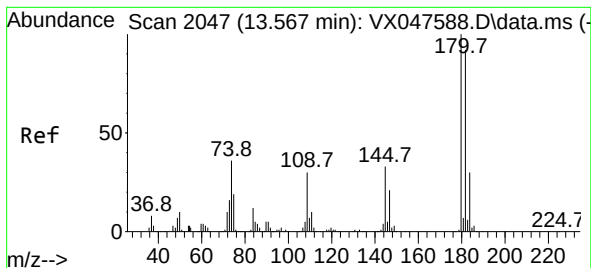
Tgt Ion:	119	Resp:	1917
Ion	Ratio	Lower	Upper
119	100		
134	28.2	12.6	37.8
91	34.2	12.6	37.6



#89
 n-Butylbenzene
 Concen: 0.394 ug/l
 RT: 12.317 min Scan# 1842
 Delta R.T. 0.006 min
 Lab File: VX047929.D
 Acq: 01 Oct 2025 11:20

Tgt Ion:	91	Resp:	2842
Ion	Ratio	Lower	Upper
91	100		
92	49.8	27.6	82.7
134	24.1	12.6	37.8





#93

1,2,4-Trichlorobenzene

Concen: 0.501 ug/l

RT: 13.573 min Scan# 2047

Delta R.T. 0.006 min

Lab File: VX047929.D

Acq: 01 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

RW4-20250922DL

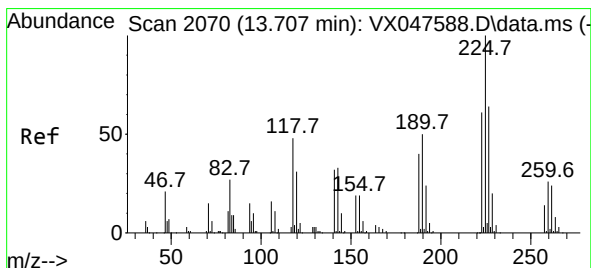
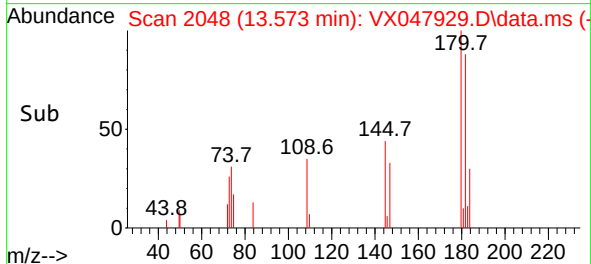
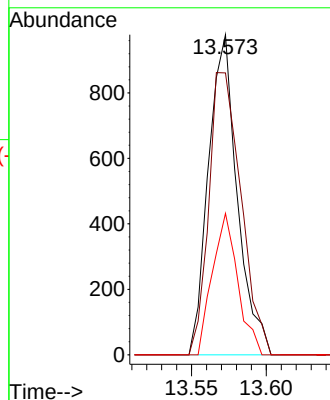
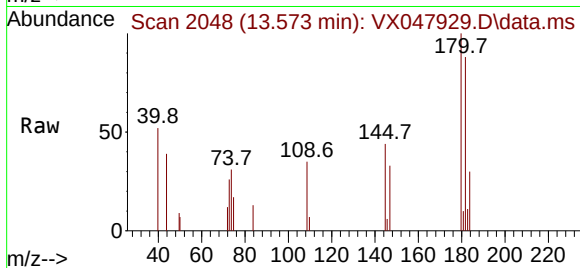
Tgt Ion:180 Resp: 1309

Ion Ratio Lower Upper

180 100

182 98.7 46.6 139.8

145 39.0 16.4 49.1



#94

Hexachlorobutadiene

Concen: 1.674 ug/l

RT: 13.701 min Scan# 2069

Delta R.T. -0.006 min

Lab File: VX047929.D

Acq: 01 Oct 2025 11:20

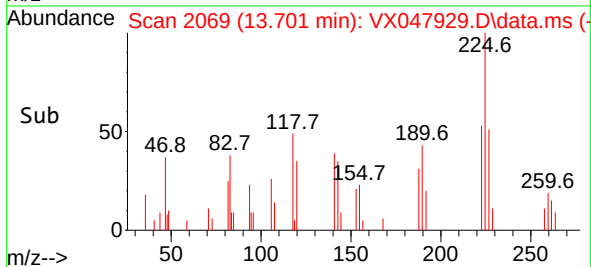
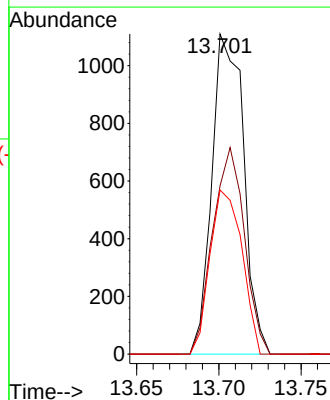
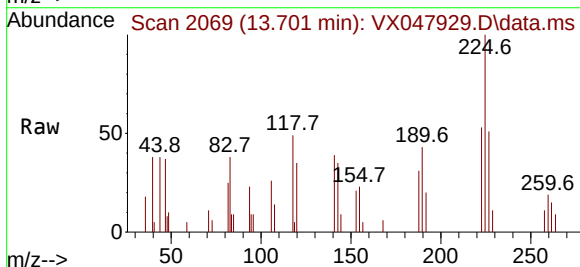
Tgt Ion:225 Resp: 1486

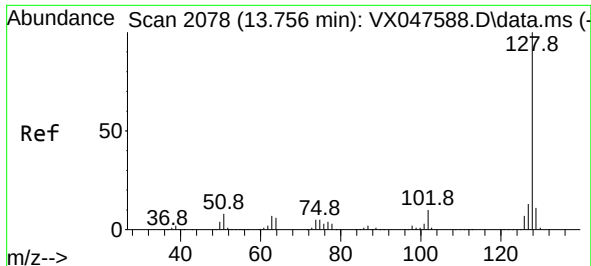
Ion Ratio Lower Upper

225 100

223 64.5 31.7 95.1

227 51.9 32.0 96.0

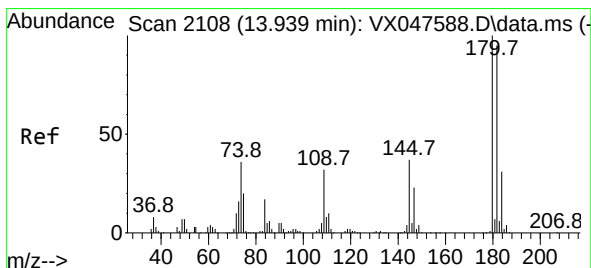
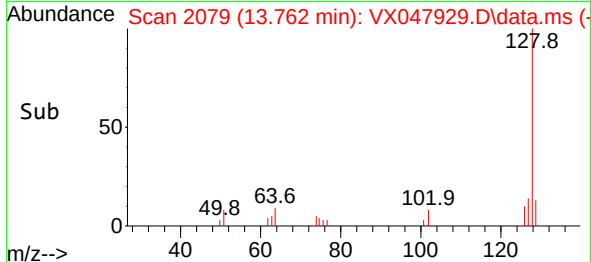
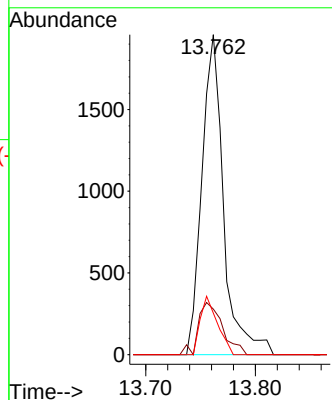
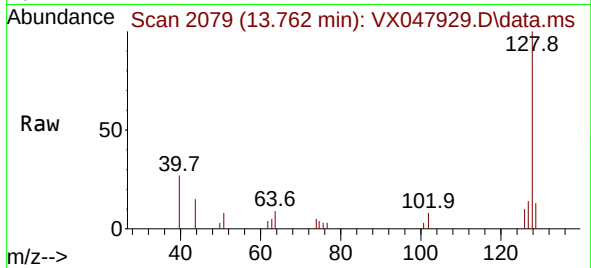




#95
Naphthalene
Concen: 0.338 ug/l
RT: 13.762 min Scan# 2078
Delta R.T. 0.006 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
RW4-20250922DL

Tgt Ion:128 Resp: 2686
Ion Ratio Lower Upper
128 100
127 18.2 10.2 15.2#
129 14.4 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.523 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047929.D
Acq: 01 Oct 2025 11:20

Tgt Ion:180 Resp: 1271
Ion Ratio Lower Upper
180 100
182 98.7 47.6 142.8
145 33.2 17.9 53.7

