

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047358.D
 Acq On : 15 Aug 2025 13:39
 Operator : JC/MD
 Sample : VX0815WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

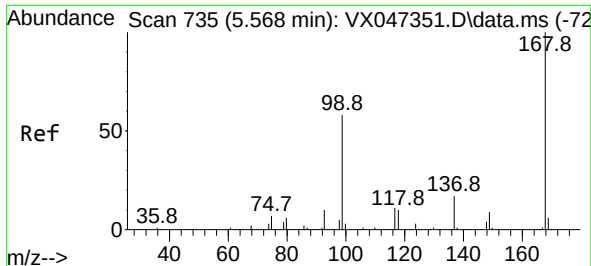
Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 18 04:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

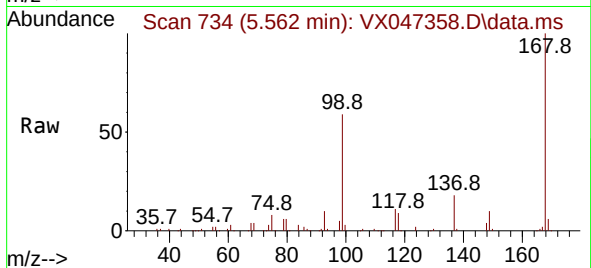
Internal Standards						
1) Pentafluorobenzene	5.562	168	213035	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	413649	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	396719	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	194794	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	170884	57.315	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.620%			
35) Dibromofluoromethane	5.391	113	145936	54.360	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.720%			
50) Toluene-d8	8.647	98	494208	51.504	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.000%			
62) 4-Bromofluorobenzene	11.079	95	202494	57.186	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 114.380%			
Target Compounds					Qvalue	
5) Bromomethane	1.648	94	1100	0.888	ug/l #	71
10) Methyl Iodide	2.483	142	5439	1.206	ug/l #	79
11) Tert butyl alcohol	2.959	59	320	1.234	ug/l #	72
13) Acrolein	2.251	56	297	0.542	ug/l #	78
15) Acrylonitrile	3.099	53	775	0.618	ug/l #	75
16) Acetone	2.398	43	1922	1.715	ug/l	93
17) Carbon Disulfide	2.532	76	5818	0.719	ug/l #	93
18) Methyl Acetate	2.703	43	686	0.236	ug/l #	53
20) Methylene Chloride	2.806	84	972	0.328	ug/l #	70
21) trans-1,2-Dichloroethene	3.111	96	599	0.210	ug/l #	72
36) 1,1-Dichloropropene	5.562	75	16579	3.912	ug/l #	51
38) Carbon Tetrachloride	5.556	117	22766	4.916	ug/l #	16
49) 1,4-Dioxane	7.702	88	351	11.006	ug/l #	70
58) 2-Chloroethyl Vinyl ether	8.299	63	49	8.378	ug/l #	46
76) 1,2,3-Trichloropropane	11.079	75	105425	29.508	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	105425	115.955	ug/l #	7
85) sec-Butylbenzene	11.890	105	3583	0.231	ug/l	97
86) p-Isopropyltoluene	12.012	119	3387	0.258	ug/l #	75
87) 1,3-Dichlorobenzene	11.975	146	1593	0.224	ug/l	93
88) 1,4-Dichlorobenzene	11.975	146	1593	0.218	ug/l	94
89) n-Butylbenzene	12.335	91	5063	0.415	ug/l	92
90) Hexachloroethane	12.536	117	483	0.210	ug/l	93
93) 1,2,4-Trichlorobenzene	13.591	180	2714	0.600	ug/l	98
94) Hexachlorobutadiene	13.719	225	5282	3.279	ug/l	100
95) Naphthalene	13.780	128	6724	0.520	ug/l #	94
96) 1,2,3-Trichlorobenzene	13.963	180	3155	0.740	ug/l	85

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

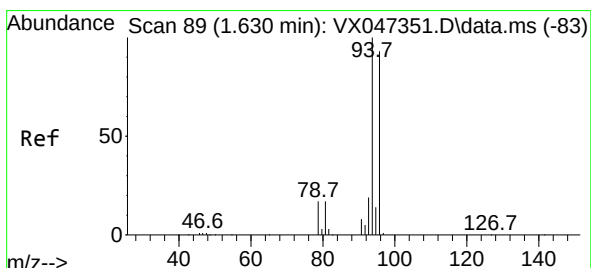
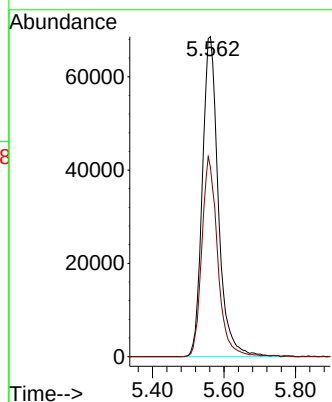
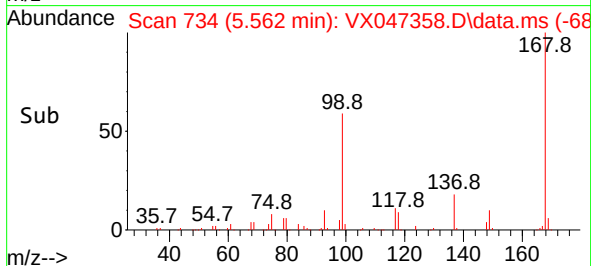


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :

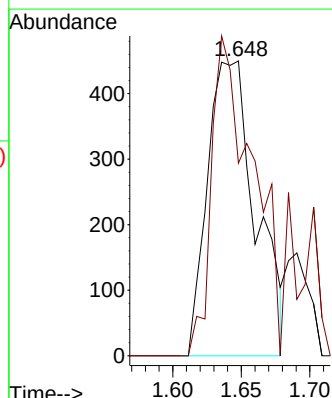
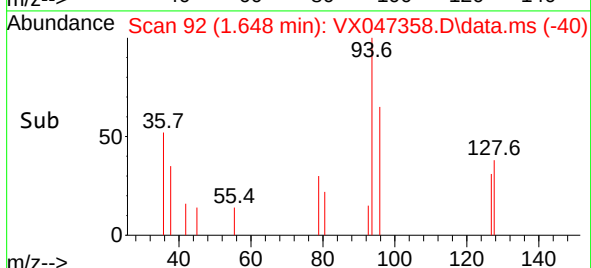
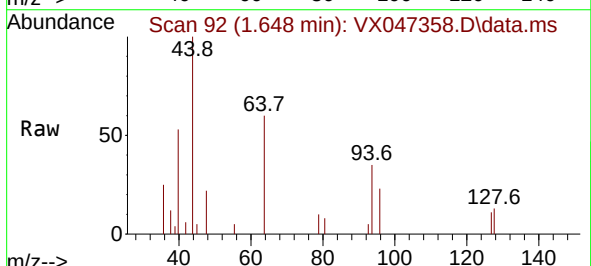


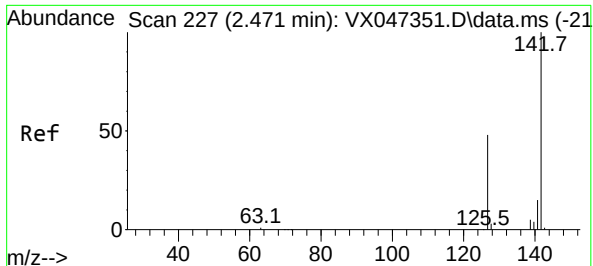
Tgt Ion:168 Resp: 213035
Ion Ratio Lower Upper
168 100
99 59.2 47.9 71.9



#5
Bromomethane
Concen: 0.888 ug/l
RT: 1.648 min Scan# 92
Delta R.T. 0.018 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

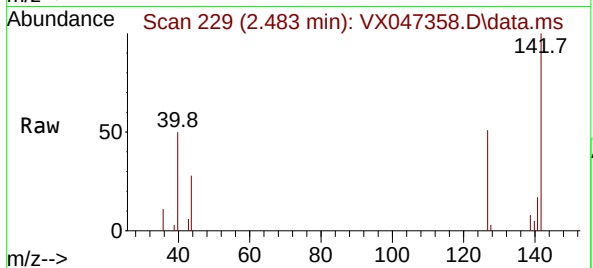
Tgt Ion: 94 Resp: 1100
Ion Ratio Lower Upper
94 100
96 65.3 74.7 112.1#



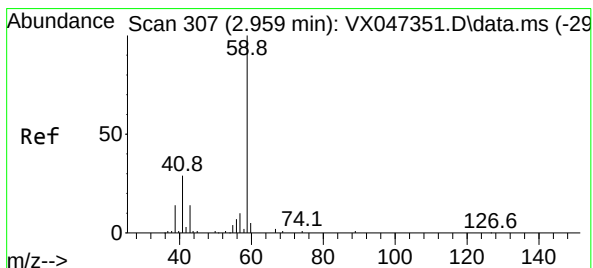
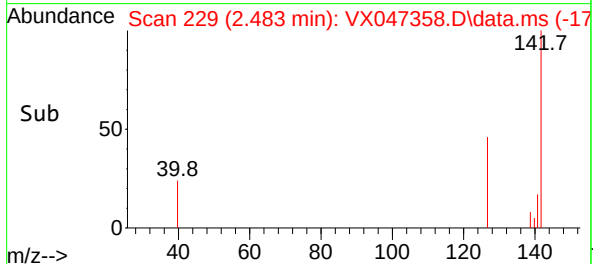
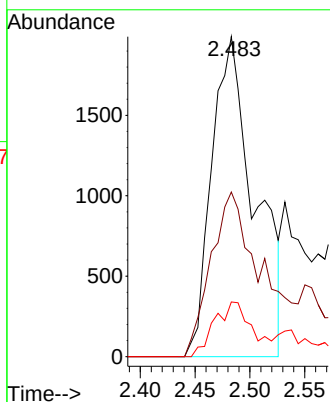


#10
Methyl Iodide
Concen: 1.206 ug/l
RT: 2.483 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :

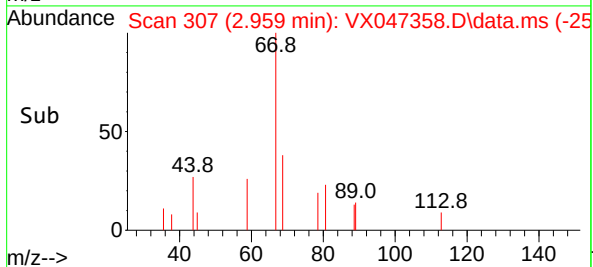
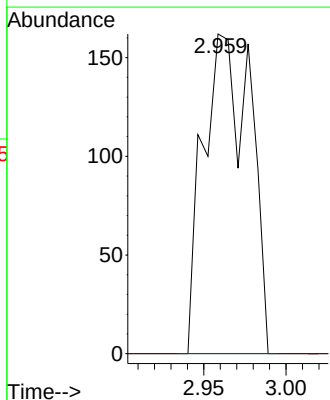
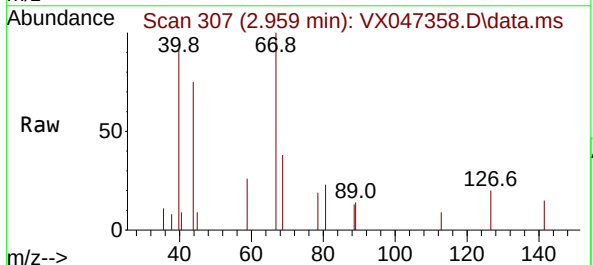


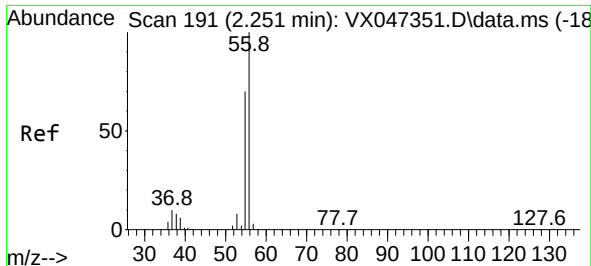
Tgt Ion:142 Resp: 5439
Ion Ratio Lower Upper
142 100
127 62.1 36.1 54.1#
141 15.0 11.1 16.7



#11
Tert butyl alcohol
Concen: 1.234 ug/l
RT: 2.959 min Scan# 307
Delta R.T. -0.000 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Tgt Ion: 59 Resp: 320
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

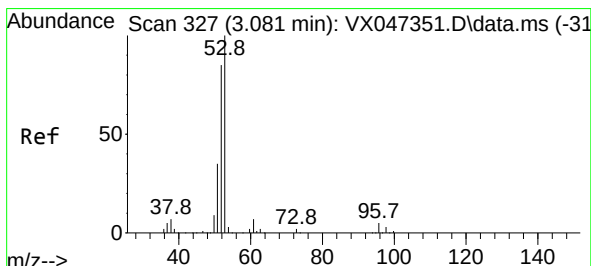
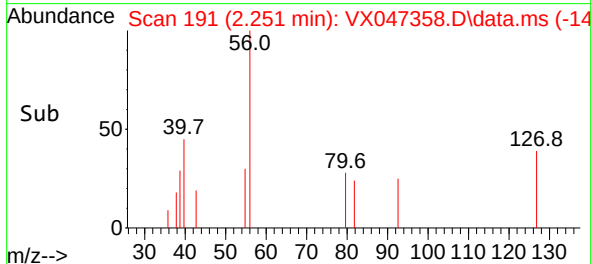
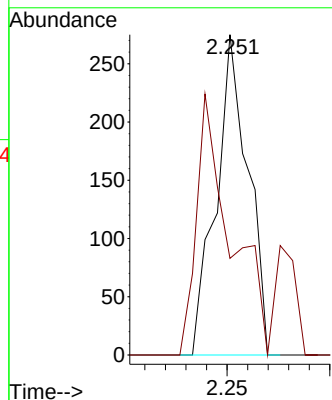
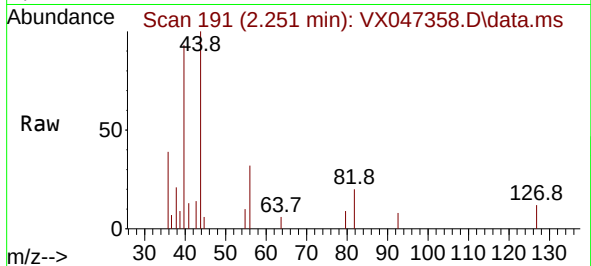




#13
Acrolein
Concen: 0.542 ug/l
RT: 2.251 min Scan# 191
Delta R.T. -0.000 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

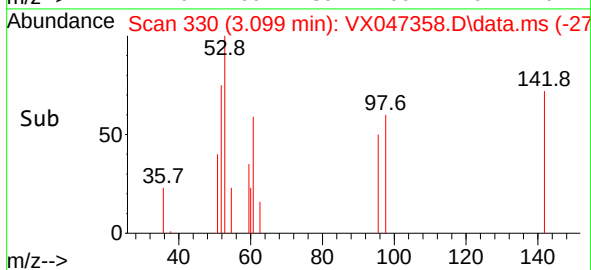
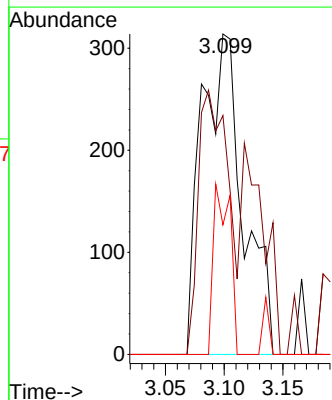
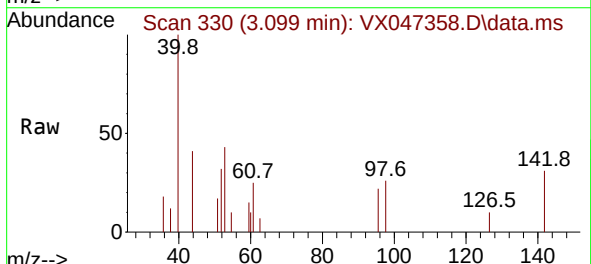
Instrument :
MSVOA_X
ClientSampleId :

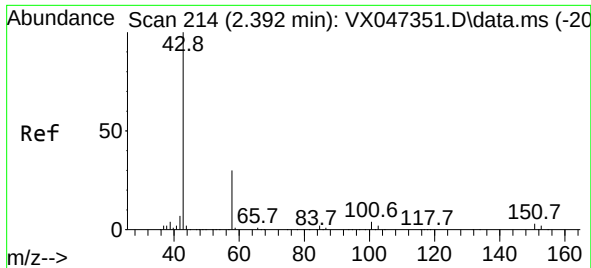
Tgt Ion: 56 Resp: 297
Ion Ratio Lower Upper
56 100
55 87.2 55.5 83.3#



#15
Acrylonitrile
Concen: 0.618 ug/l
RT: 3.099 min Scan# 330
Delta R.T. 0.018 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Tgt Ion: 53 Resp: 775
Ion Ratio Lower Upper
53 100
52 59.1 65.8 98.6#
51 21.3 28.2 42.2#

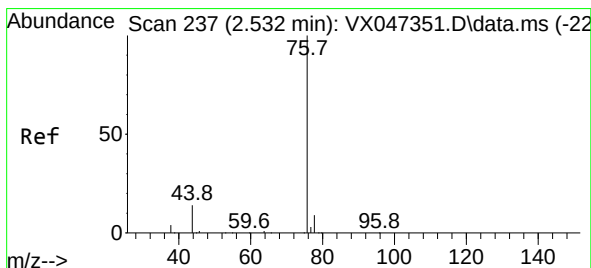
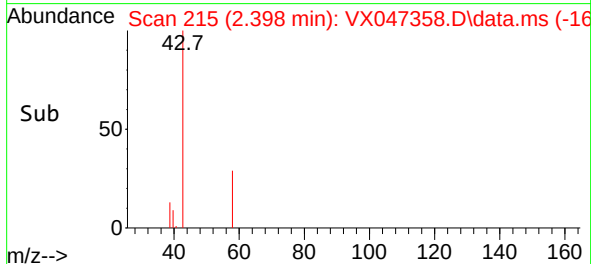
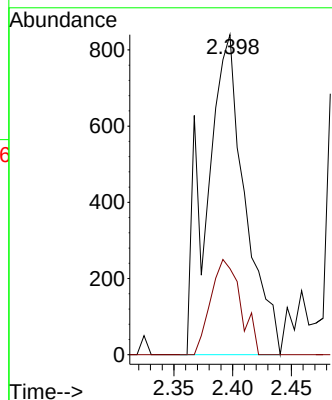
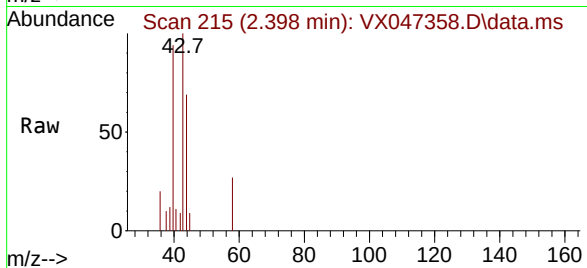




#16
Acetone
Concen: 1.715 ug/l
RT: 2.398 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

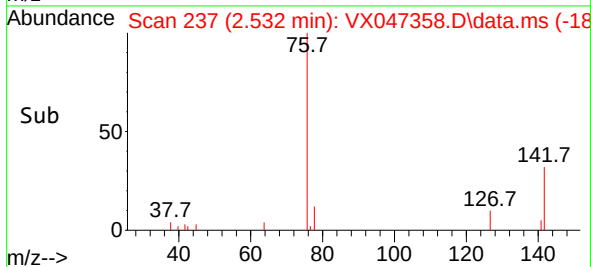
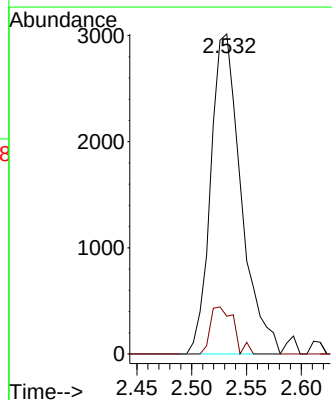
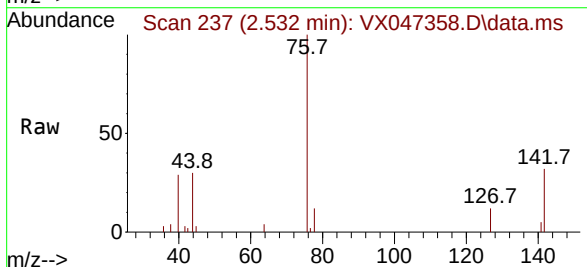
Instrument :
MSVOA_X
ClientSampleId :

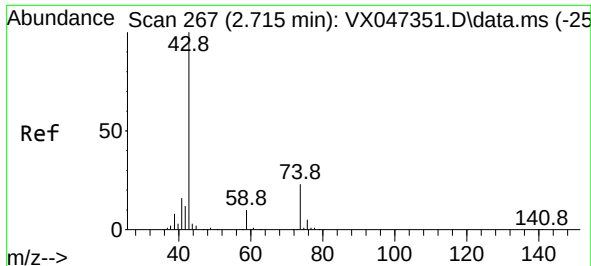
Tgt Ion: 43 Resp: 1922
Ion Ratio Lower Upper
43 100
58 26.9 24.8 37.2



#17
Carbon Disulfide
Concen: 0.719 ug/l
RT: 2.532 min Scan# 237
Delta R.T. -0.000 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Tgt Ion: 76 Resp: 5818
Ion Ratio Lower Upper
76 100
78 11.6 7.2 10.8#

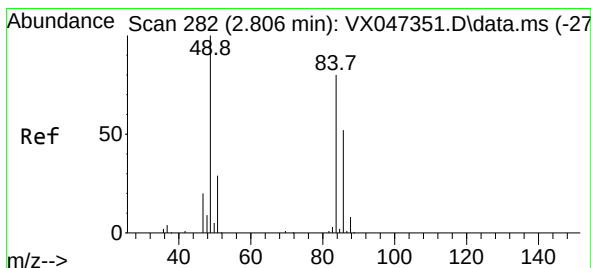
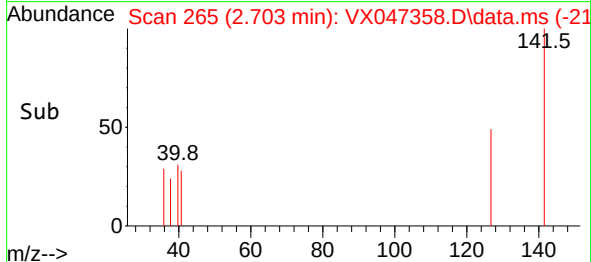
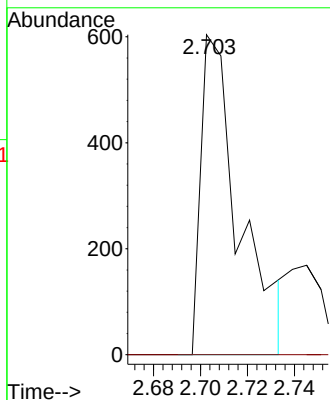
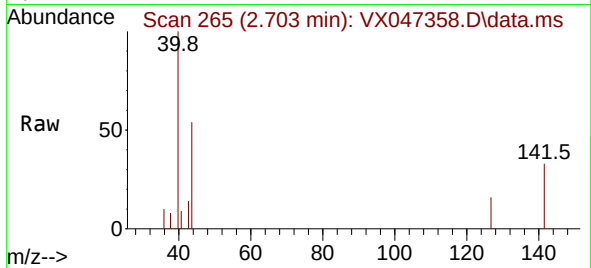




#18
Methyl Acetate
Concen: 0.236 ug/l
RT: 2.703 min Scan# 20
Delta R.T. -0.012 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

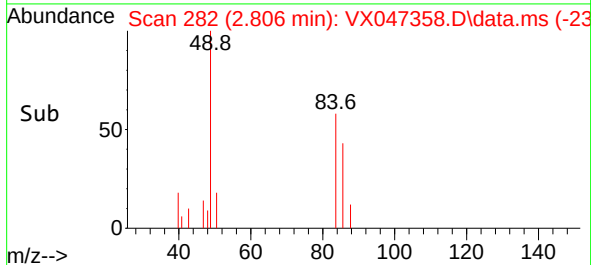
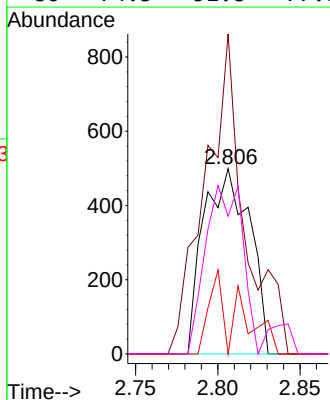
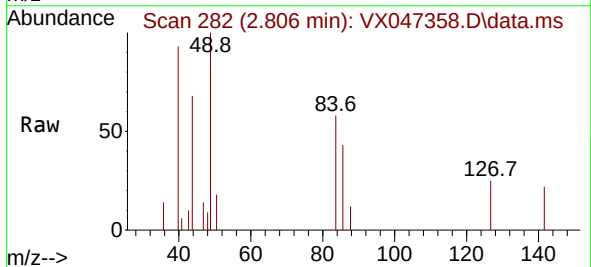
Instrument :
MSVOA_X
ClientSampleId :

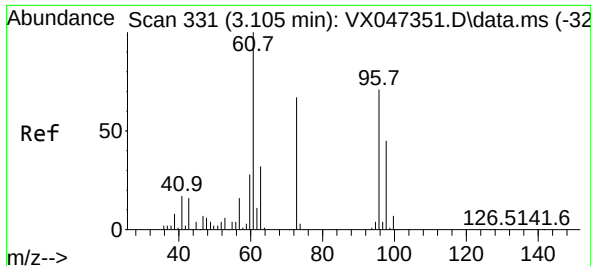
Tgt Ion: 43 Resp: 686
Ion Ratio Lower Upper
43 100
74 0.0 18.4 27.6#



#20
Methylene Chloride
Concen: 0.328 ug/l
RT: 2.806 min Scan# 282
Delta R.T. -0.000 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

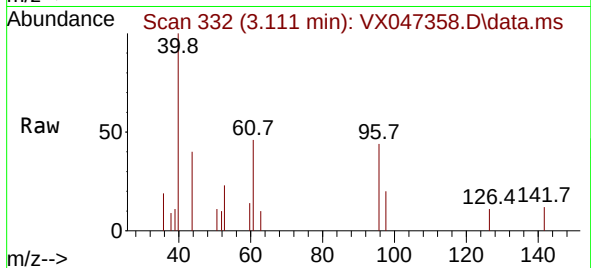
Tgt Ion: 84 Resp: 972
Ion Ratio Lower Upper
84 100
49 158.1 100.1 150.1#
51 0.0 29.5 44.3#
86 74.3 51.8 77.8



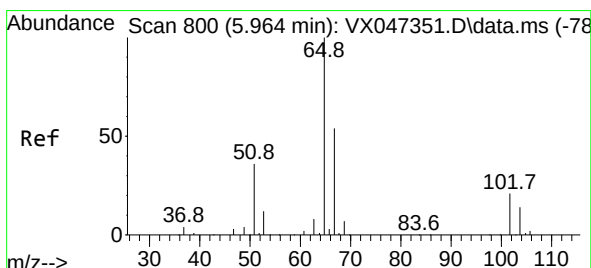
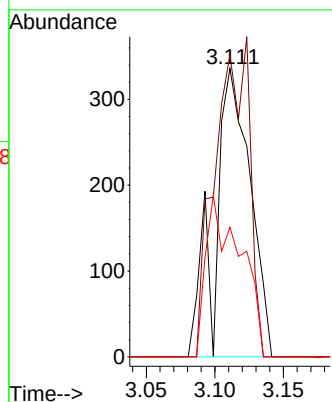
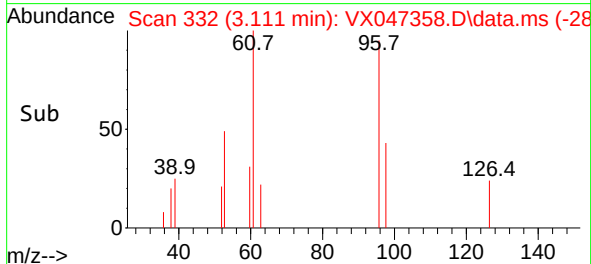


#21
trans-1,2-Dichloroethene
Concen: 0.210 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :

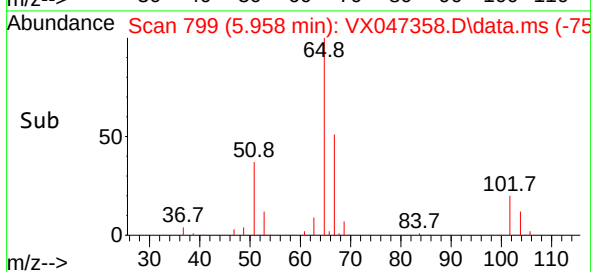
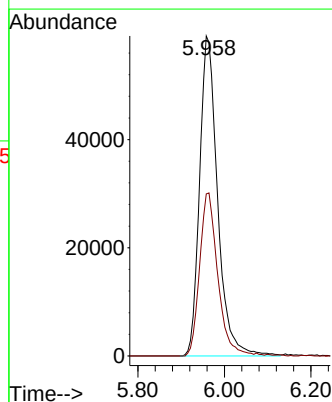
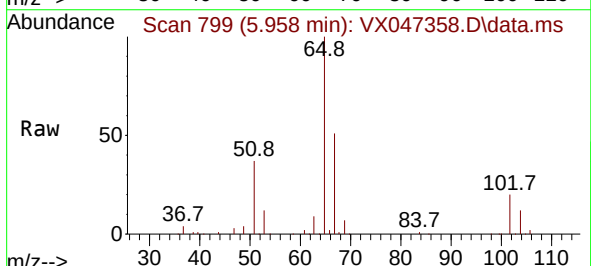


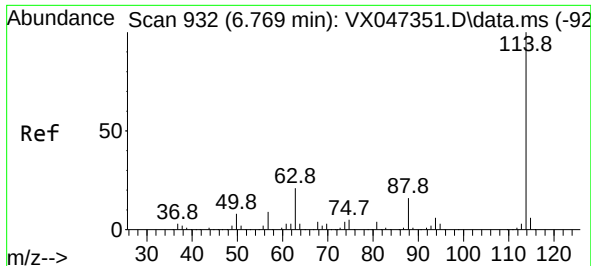
Tgt Ion: 96 Resp: 599
Ion Ratio Lower Upper
96 100
61 104.8 112.6 169.0#
98 44.9 50.9 76.3#



#33
1,2-Dichloroethane-d4
Concen: 57.315 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

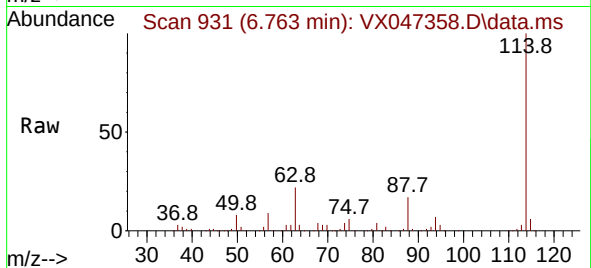
Tgt Ion: 65 Resp: 170884
Ion Ratio Lower Upper
65 100
67 51.4 0.0 106.0



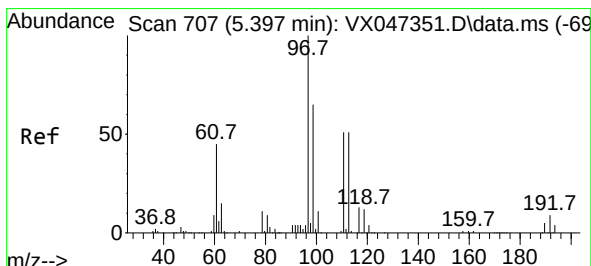
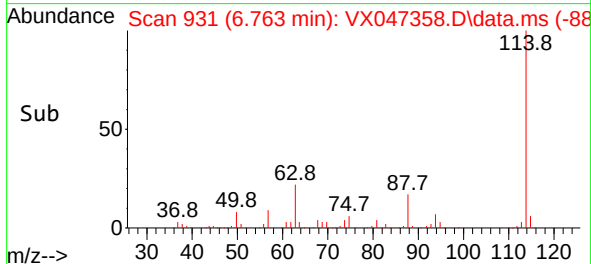
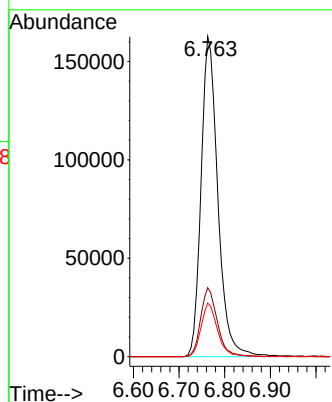


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :

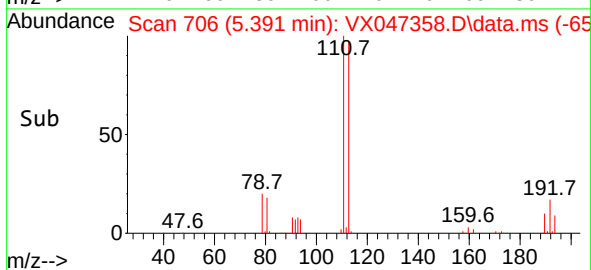
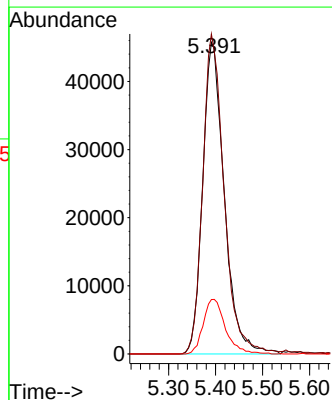
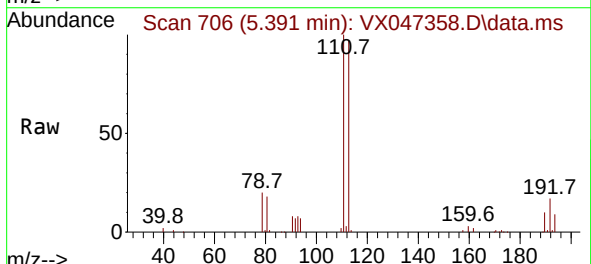


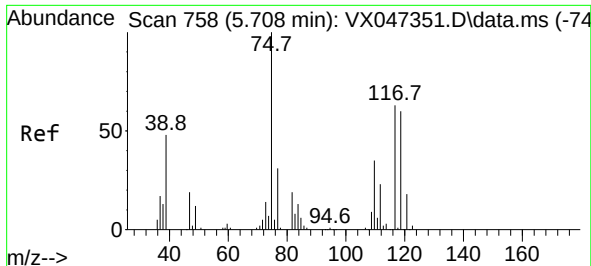
Tgt Ion:114 Resp: 413649
Ion Ratio Lower Upper
114 100
63 24.6 0.0 42.4
88 16.8 0.0 33.0



#35
Dibromofluoromethane
Concen: 54.360 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Tgt Ion:113 Resp: 145936
Ion Ratio Lower Upper
113 100
111 101.4 81.4 122.2
192 18.0 14.1 21.1





#36

1,1-Dichloropropene

Concen: 3.912 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.146 min

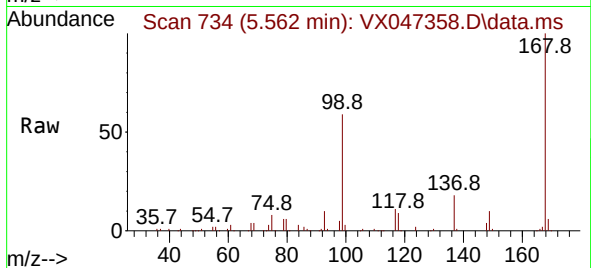
Lab File: VX047358.D

Acq: 15 Aug 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :



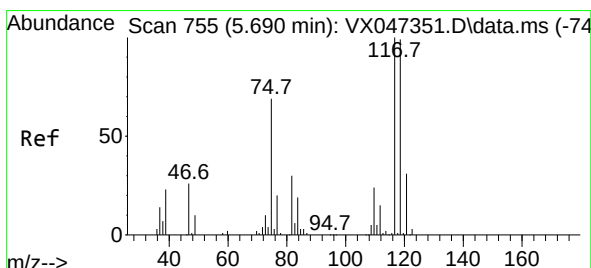
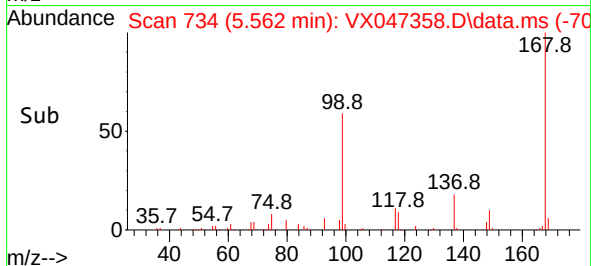
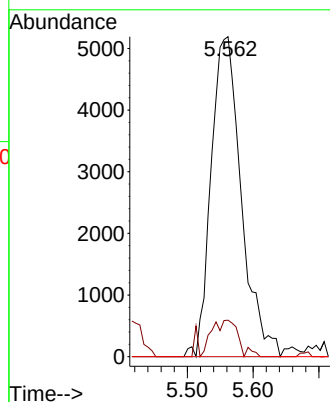
Tgt Ion: 75 Resp: 16579

Ion Ratio Lower Upper

75 100

110 10.2 17.4 52.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.916 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.134 min

Lab File: VX047358.D

Acq: 15 Aug 2025 13:39

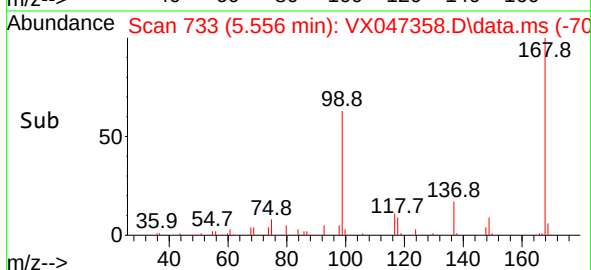
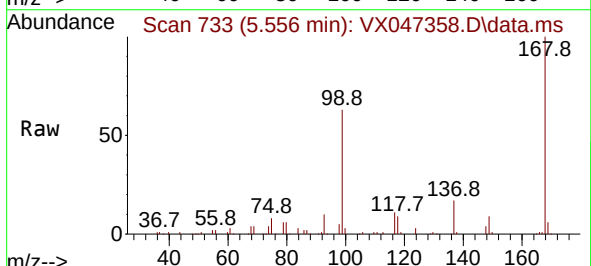
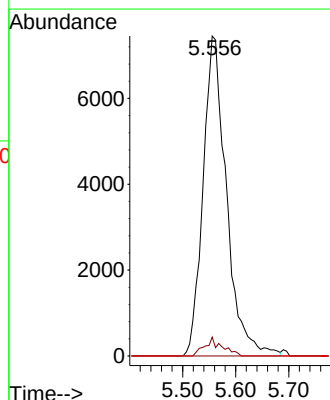
Tgt Ion: 117 Resp: 22766

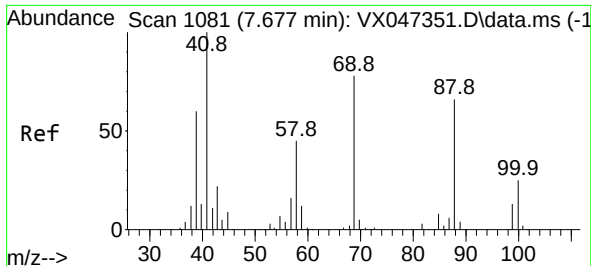
Ion Ratio Lower Upper

117 100

119 5.9 78.5 117.7#

121 0.0 24.7 37.1#





#49

1,4-Dioxane

Concen: 11.006 ug/l

RT: 7.702 min Scan# 1

Delta R.T. 0.024 min

Lab File: VX047358.D

Acq: 15 Aug 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

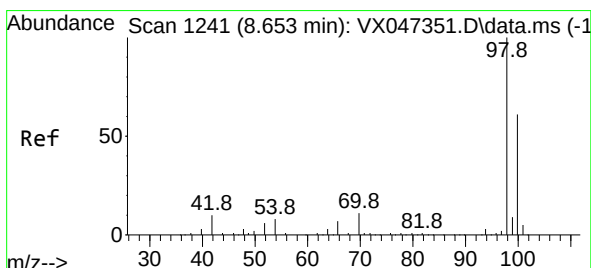
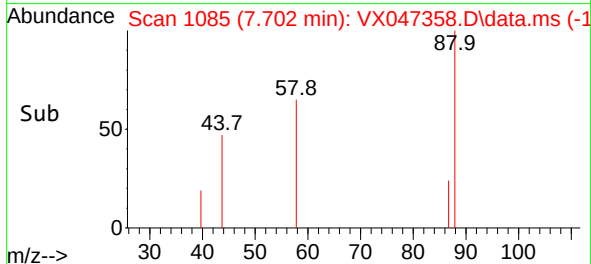
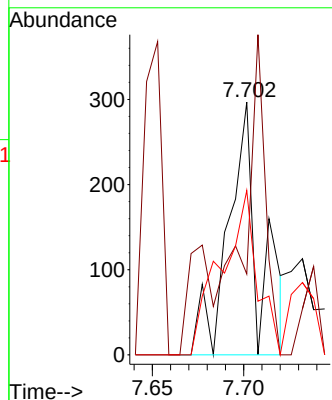
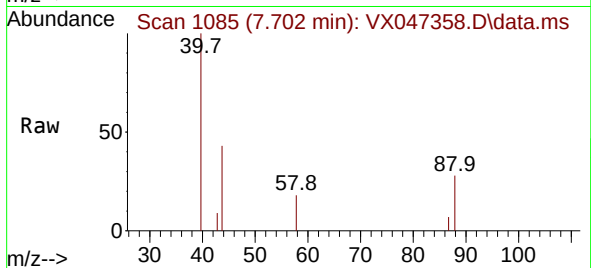
Tgt Ion: 88 Resp: 351

Ion Ratio Lower Upper

88 100

43 85.2 32.4 48.6#

58 75.8 56.9 85.3



#50

Toluene-d8

Concen: 51.504 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX047358.D

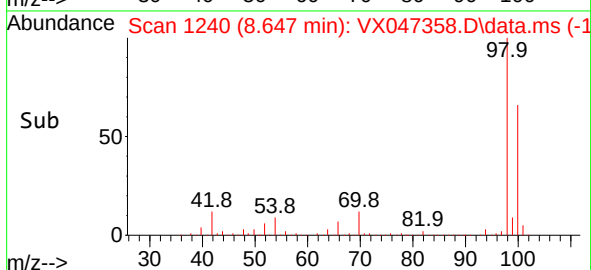
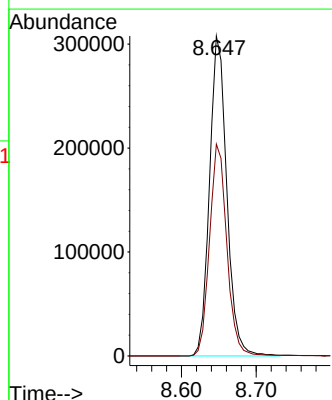
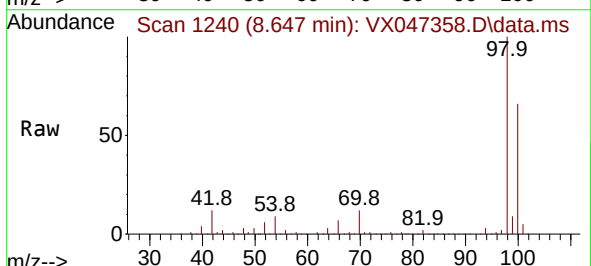
Acq: 15 Aug 2025 13:39

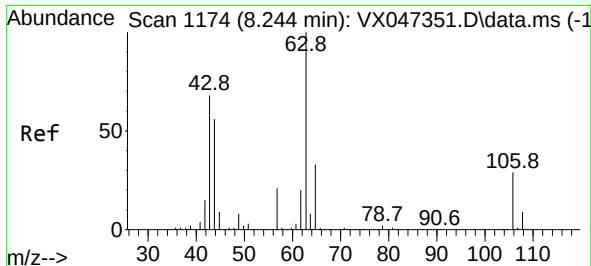
Tgt Ion: 98 Resp: 494208

Ion Ratio Lower Upper

98 100

100 66.7 53.9 80.9

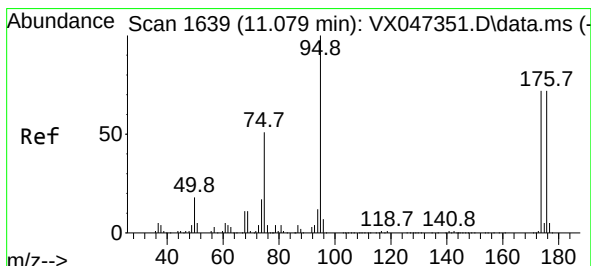
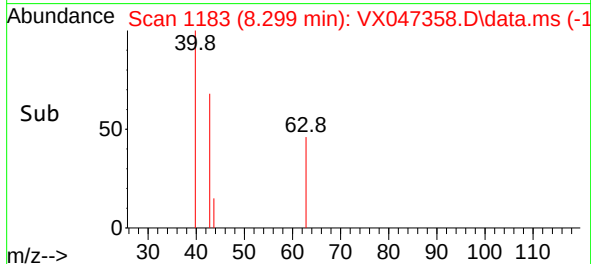
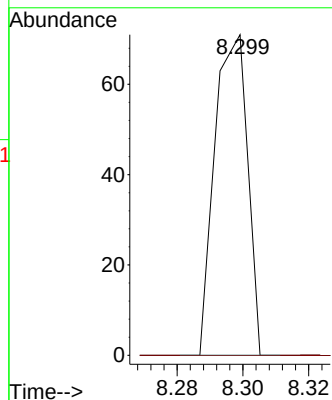
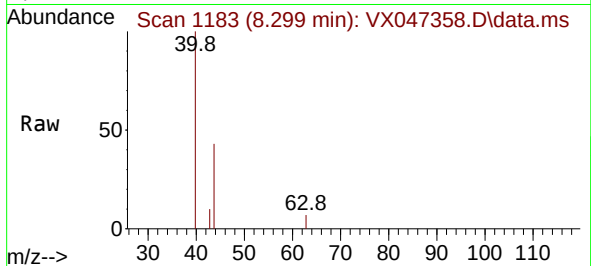




#58
2-Chloroethyl Vinyl ether
Concen: 8.378 ug/l
RT: 8.299 min Scan# 1183
Delta R.T. 0.055 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

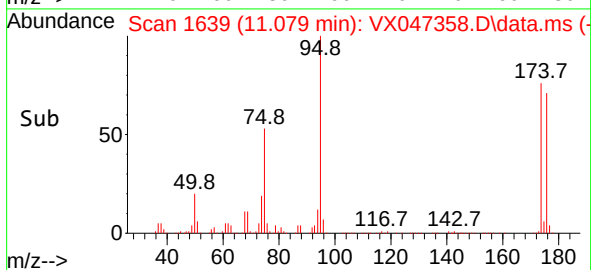
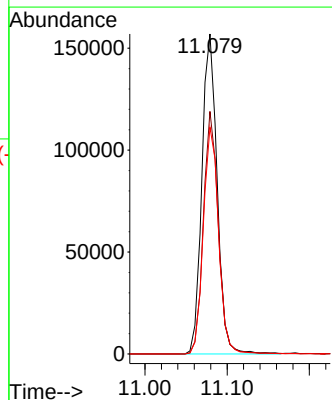
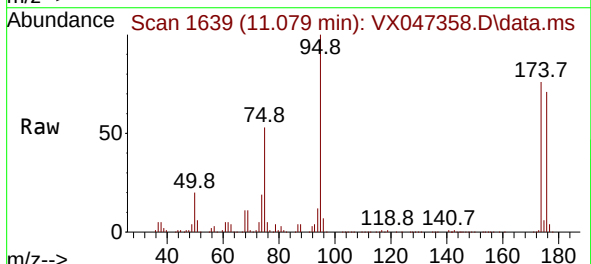
Instrument :
MSVOA_X
ClientSampleId :

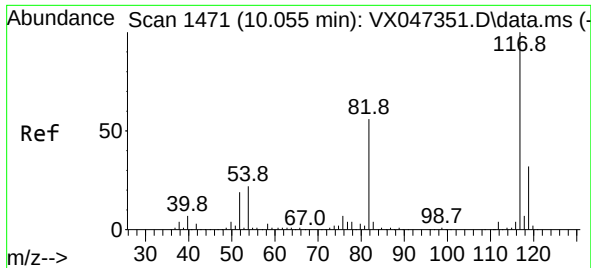
Tgt Ion: 63 Resp: 49
Ion Ratio Lower Upper
63 100
106 0.0 22.8 34.2#



#62
4-Bromofluorobenzene
Concen: 57.186 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

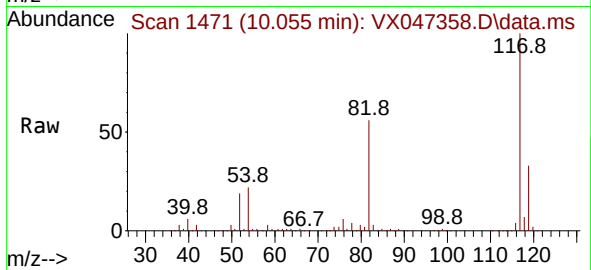
Tgt Ion: 95 Resp: 202494
Ion Ratio Lower Upper
95 100
174 74.2 0.0 148.0
176 71.1 0.0 145.4



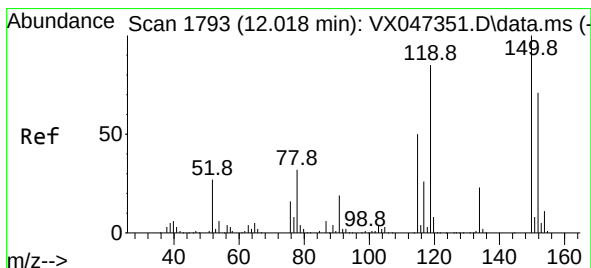
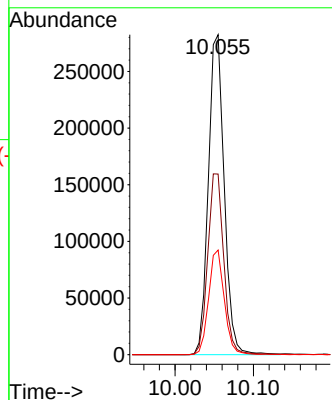
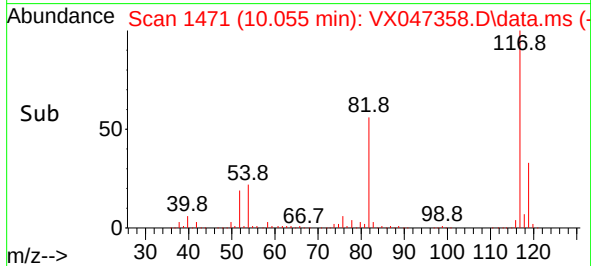


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

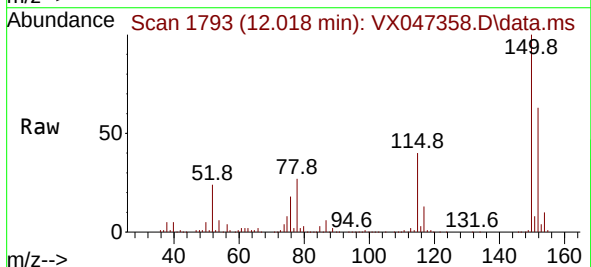
Instrument :
MSVOA_X
ClientSampleId :



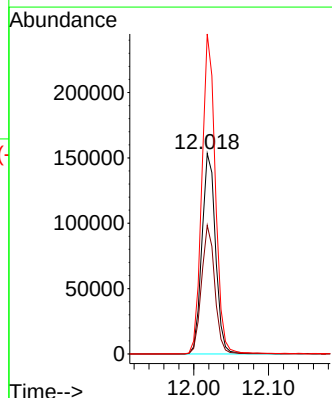
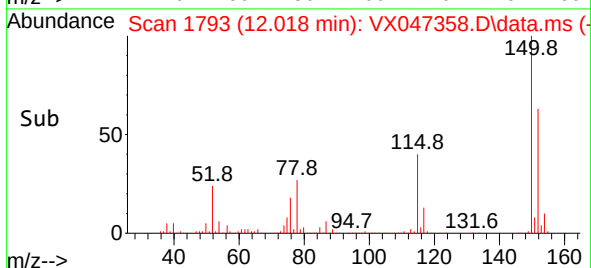
Tgt Ion:117 Resp: 396719
Ion Ratio Lower Upper
117 100
82 56.4 45.0 67.4
119 32.7 25.8 38.8

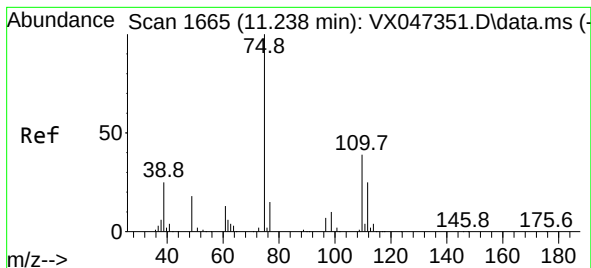


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39



Tgt Ion:152 Resp: 194794
Ion Ratio Lower Upper
152 100
115 62.6 44.6 133.8
150 157.1 0.0 349.8





#76

1,2,3-Trichloropropane

Concen: 29.508 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX047358.D

Acq: 15 Aug 2025 13:39

Instrument :

MSVOA_X

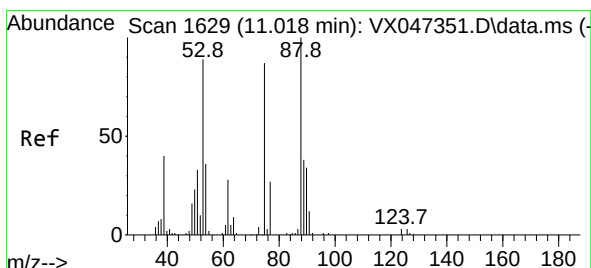
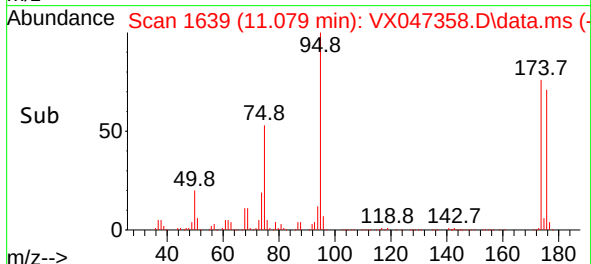
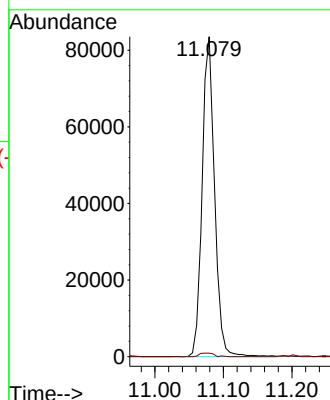
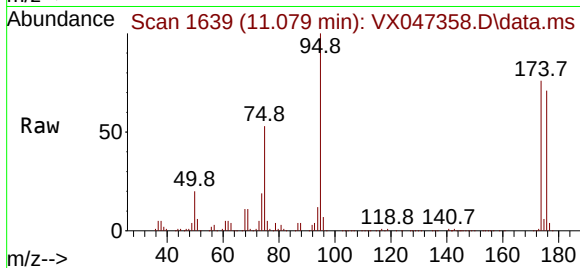
ClientSampleId :

Tgt Ion: 75 Resp: 105425

Ion Ratio Lower Upper

75 100

77 1.3 19.4 58.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 115.955 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX047358.D

Acq: 15 Aug 2025 13:39

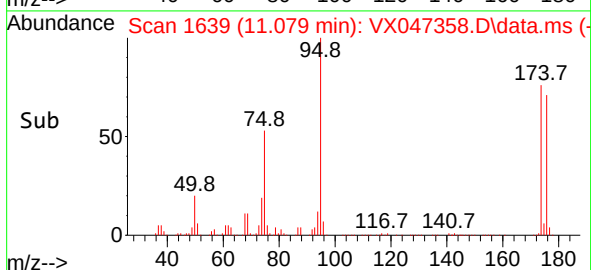
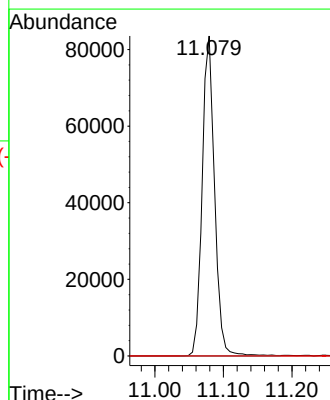
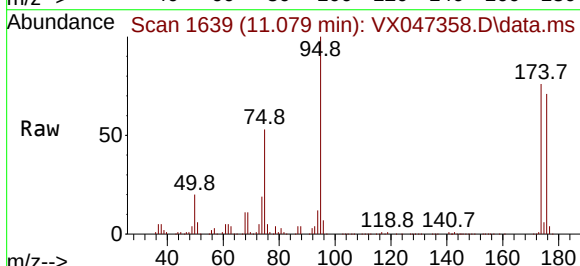
Tgt Ion: 75 Resp: 105425

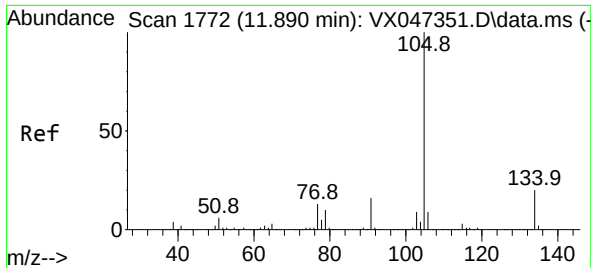
Ion Ratio Lower Upper

75 100

53 0.0 85.2 127.8#

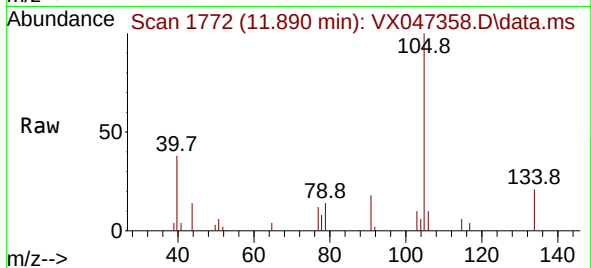
89 0.0 36.7 55.1#



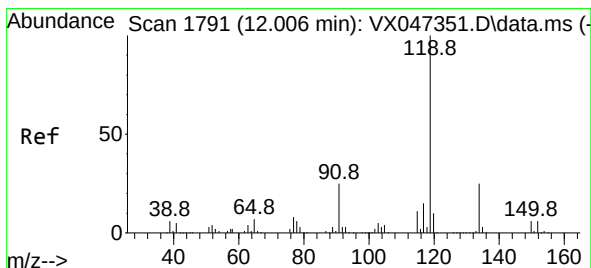
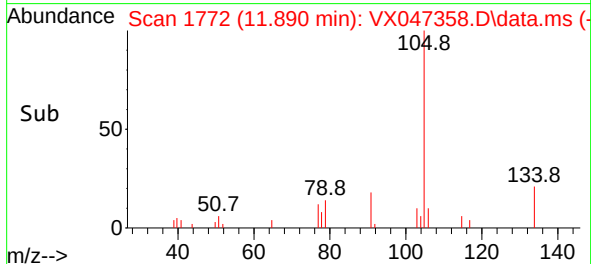
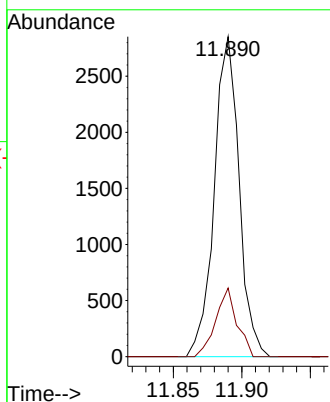


#85
 sec-Butylbenzene
 Concen: 0.231 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. -0.000 min
 Lab File: VX047358.D
 Acq: 15 Aug 2025 13:39

Instrument :
 MSVOA_X
 ClientSampleId :

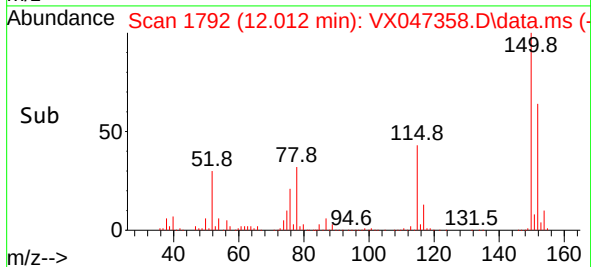
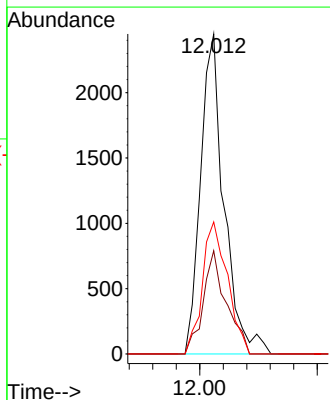
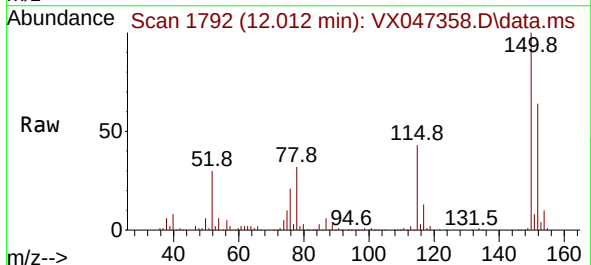


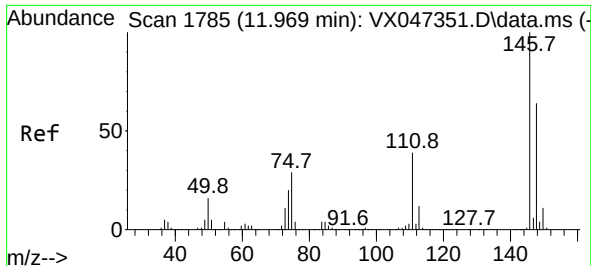
Tgt Ion:105 Resp: 3583
 Ion Ratio Lower Upper
 105 100
 134 18.3 9.8 29.5



#86
 p-Isopropyltoluene
 Concen: 0.258 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.006 min
 Lab File: VX047358.D
 Acq: 15 Aug 2025 13:39

Tgt Ion:119 Resp: 3387
 Ion Ratio Lower Upper
 119 100
 134 31.9 12.8 38.4
 91 44.3 12.4 37.4#

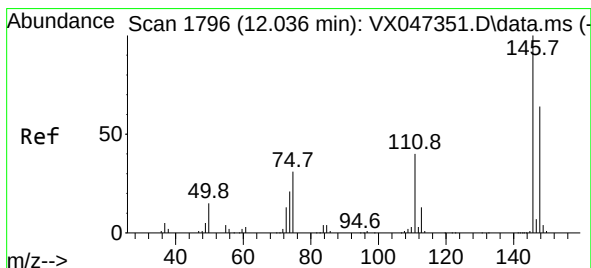
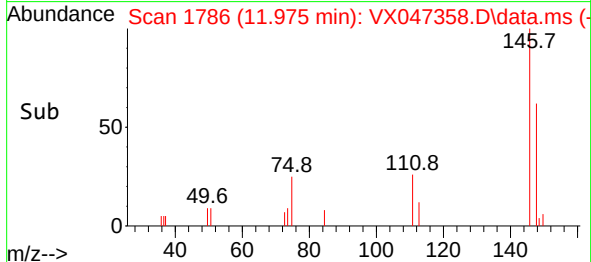
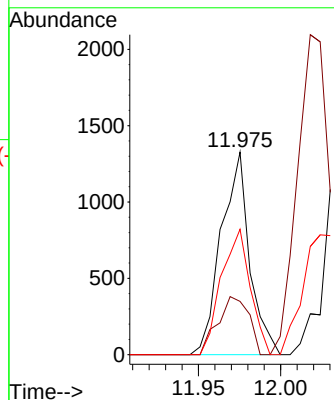
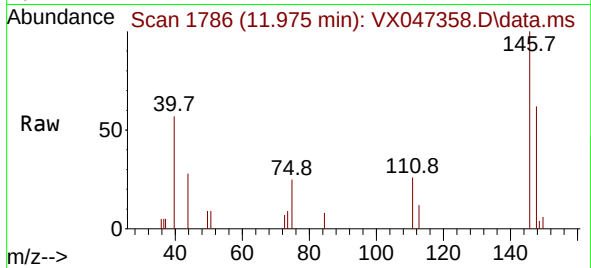




#87
1,3-Dichlorobenzene
Concen: 0.224 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. 0.006 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

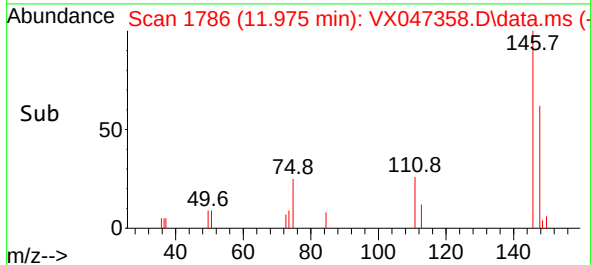
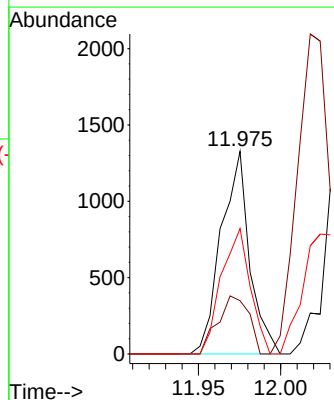
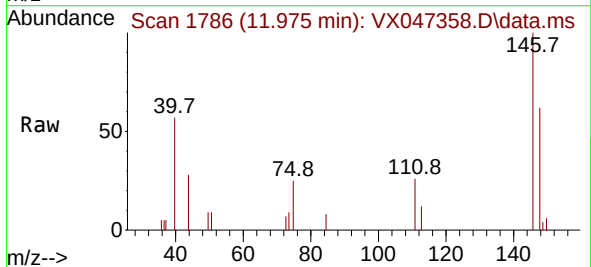
Instrument :
MSVOA_X
ClientSampleId :

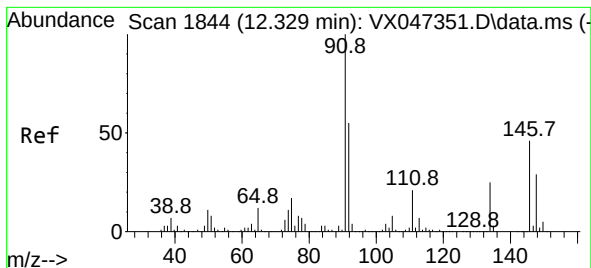
Tgt Ion:146 Resp: 1593
Ion Ratio Lower Upper
146 100
111 31.3 20.6 61.8
148 63.1 31.9 95.5



#88
1,4-Dichlorobenzene
Concen: 0.218 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. -0.061 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Tgt Ion:146 Resp: 1593
Ion Ratio Lower Upper
146 100
111 31.3 20.4 61.2
148 63.1 31.7 95.1





#89

n-Butylbenzene

Concen: 0.415 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX047358.D

Acq: 15 Aug 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

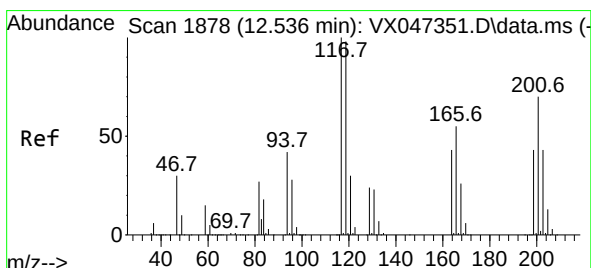
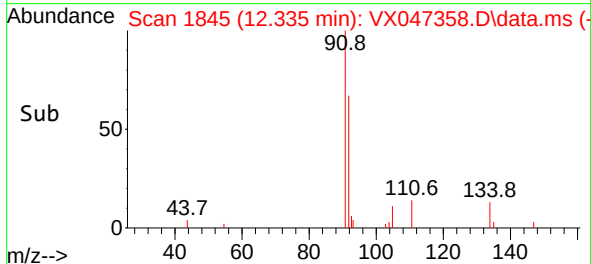
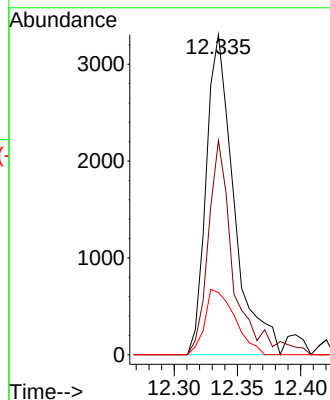
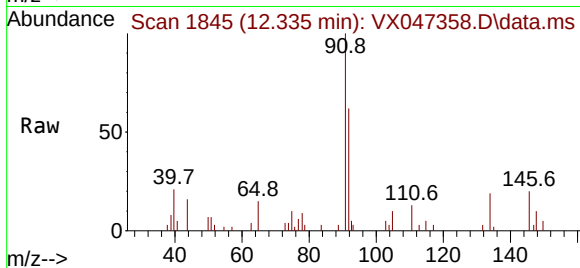
Tgt Ion: 91 Resp: 5063

Ion Ratio Lower Upper

91 100

92 60.9 27.2 81.5

134 22.0 12.6 37.8



#90

Hexachloroethane

Concen: 0.210 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX047358.D

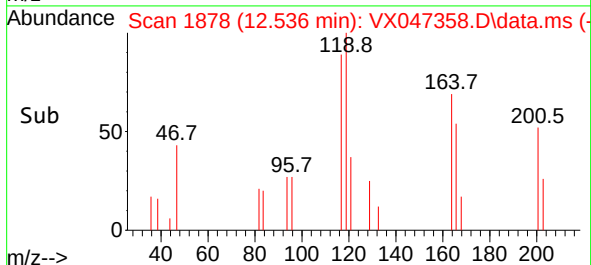
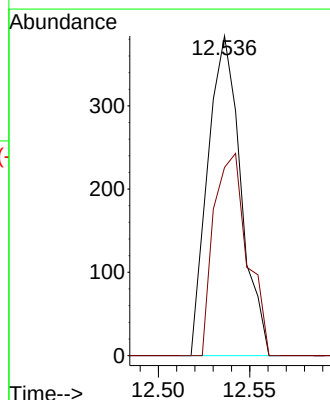
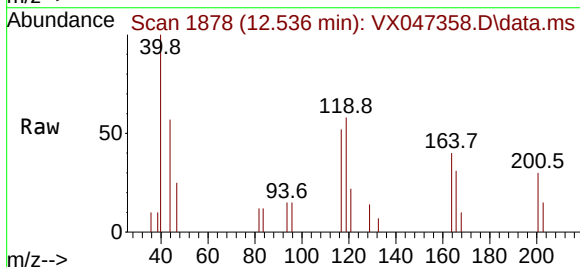
Acq: 15 Aug 2025 13:39

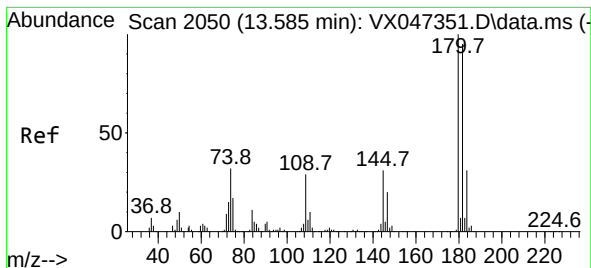
Tgt Ion: 117 Resp: 483

Ion Ratio Lower Upper

117 100

201 64.2 35.1 105.3





#93

1,2,4-Trichlorobenzene

Concen: 0.600 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX047358.D

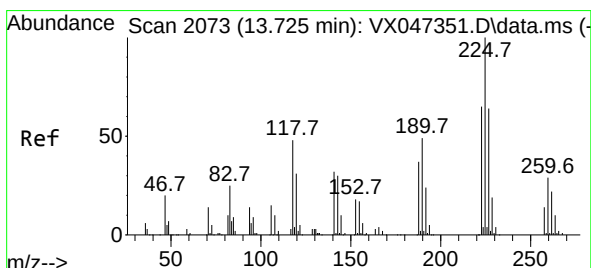
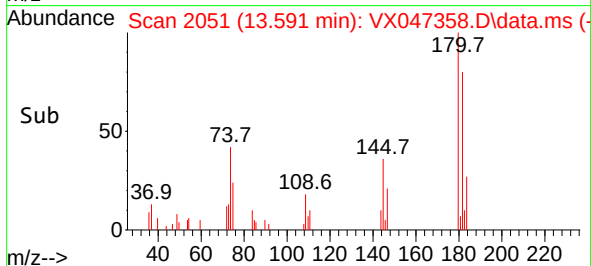
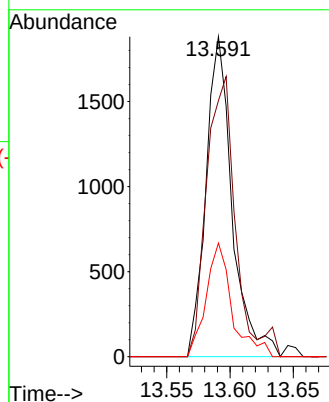
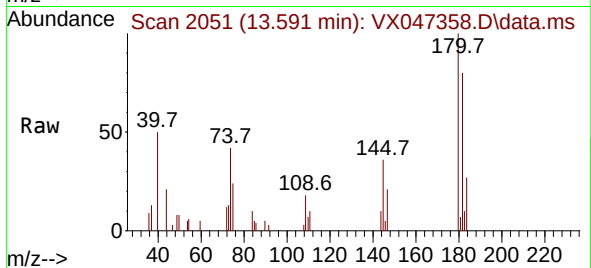
Acq: 15 Aug 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:180	Resp:	2714
Ion Ratio	Lower	Upper
180	100	
182	96.8	48.1 144.4
145	35.2	16.2 48.5



#94

Hexachlorobutadiene

Concen: 3.279 ug/l

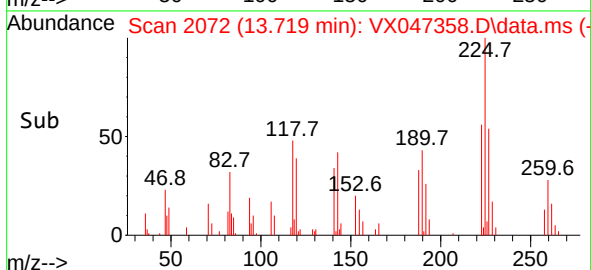
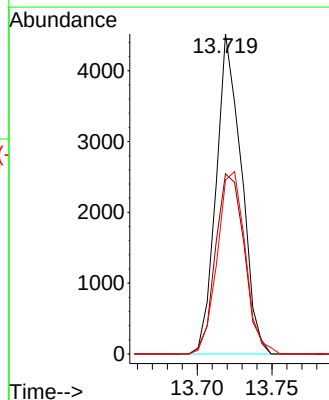
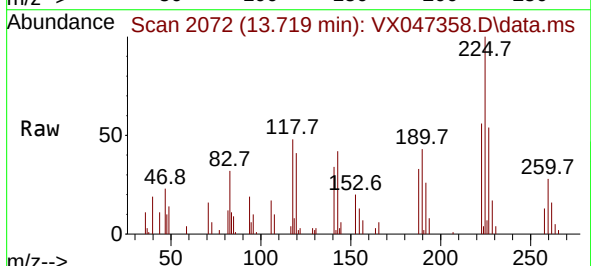
RT: 13.719 min Scan# 2072

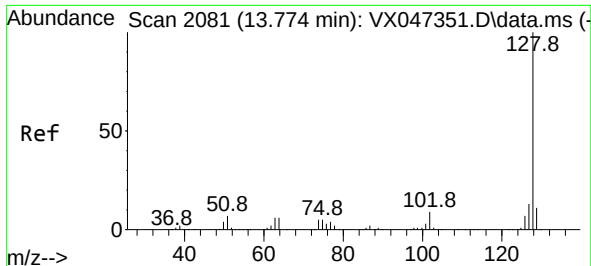
Delta R.T. -0.006 min

Lab File: VX047358.D

Acq: 15 Aug 2025 13:39

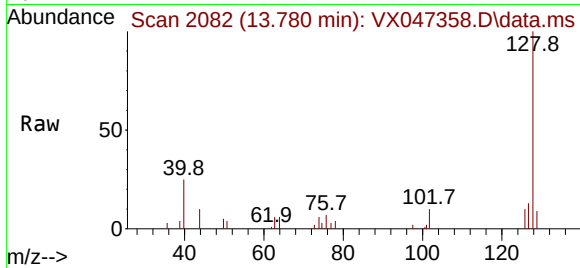
Tgt Ion:225	Resp:	5282
Ion Ratio	Lower	Upper
225	100	
223	64.3	32.2 96.6
227	63.5	31.6 95.0



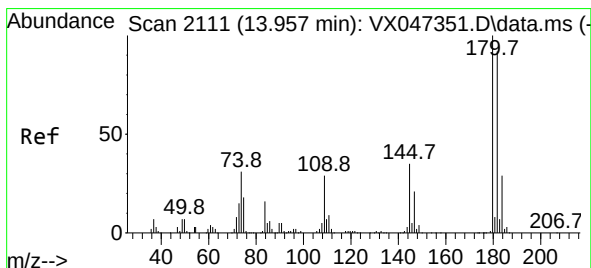
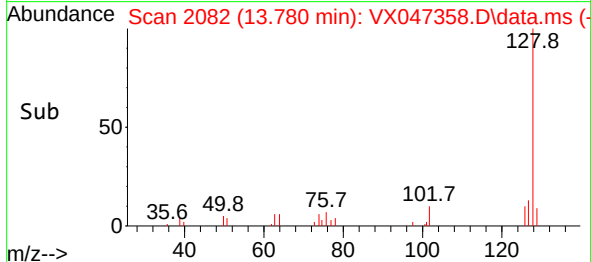
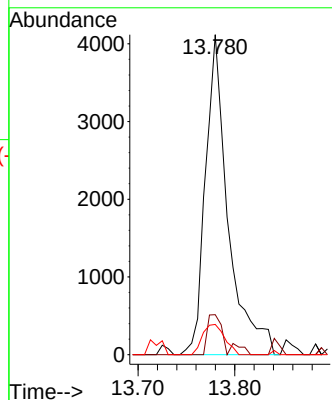


#95
Naphthalene
Concen: 0.520 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:128 Resp: 6724
Ion Ratio Lower Upper
128 100
127 9.5 10.1 15.1#
129 9.2 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.740 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX047358.D
Acq: 15 Aug 2025 13:39

Tgt Ion:180 Resp: 3155
Ion Ratio Lower Upper
180 100
182 80.5 48.0 144.2
145 27.7 17.4 52.2

