

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
 Data File : VX047314.D
 Acq On : 13 Aug 2025 12:13
 Operator : JC/MD
 Sample : Q2814-12RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

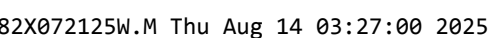
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-BP-SRE

Quant Time: Aug 14 03:26:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	179477	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	320322	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	302132	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	155373	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	133264	59.607	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 119.220%#		
35) Dibromofluoromethane	5.403	113	113615	57.446	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 114.900%		
50) Toluene-d8	8.653	98	309343	48.297	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 96.600%		
62) 4-Bromofluorobenzene	11.079	95	152202	55.142	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 110.280%		
Target Compounds						Qvalue
5) Bromomethane	1.642	94	678	0.492	ug/l #	77
6) Chloroethane	1.715	64	407	0.244	ug/l #	43
10) Methyl Iodide	2.477	142	4604	1.984	ug/l #	79
11) Tert butyl alcohol	2.959	59	2510	Below Cal	#	72
13) Acrolein	2.270	56	284	0.590	ug/l #	36
15) Acrylonitrile	3.111	53	284	0.266	ug/l #	84
16) Acetone	2.398	43	7030	7.849	ug/l #	84
17) Carbon Disulfide	2.532	76	2708	0.415	ug/l #	76
25) 2-Butanone	4.568	43	388	0.298	ug/l #	52
36) 1,1-Dichloropropene	5.568	75	14792	4.388	ug/l #	50
38) Carbon Tetrachloride	5.562	117	18417	5.118	ug/l #	18
49) 1,4-Dioxane	7.702	88	89	2.966	ug/l #	1
52) Toluene	8.726	92	1668	0.278	ug/l	81
76) 1,2,3-Trichloropropane	11.079	75	78097	27.156	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	78097	69.964	ug/l #	8
85) sec-Butylbenzene	11.890	105	2589	0.204	ug/l	95
86) p-Isopropyltoluene	12.012	119	2747	0.261	ug/l #	83
87) 1,3-Dichlorobenzene	11.969	146	1158	0.207	ug/l	95
88) 1,4-Dichlorobenzene	11.969	146	1158	0.205	ug/l	95
89) n-Butylbenzene	12.335	91	3362	0.340	ug/l	94
93) 1,2,4-Trichlorobenzene	13.591	180	1888	0.535	ug/l	91
94) Hexachlorobutadiene	13.725	225	2453	2.045	ug/l	91
95) Naphthalene	13.780	128	4096	0.396	ug/l	99
96) 1,2,3-Trichlorobenzene	13.969	180	1680	0.494	ug/l	93

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

Quant Time: Aug 14 03:26:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

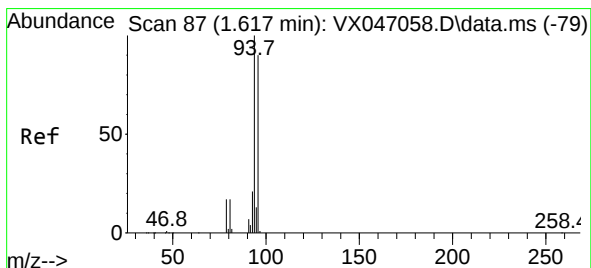
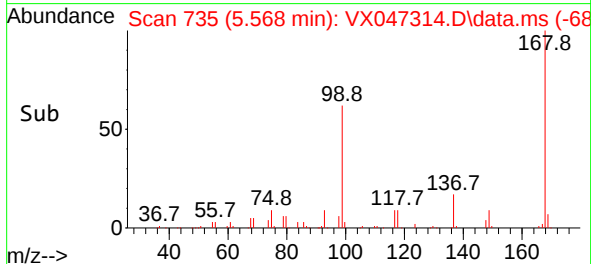
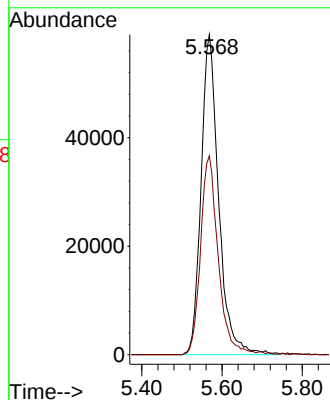
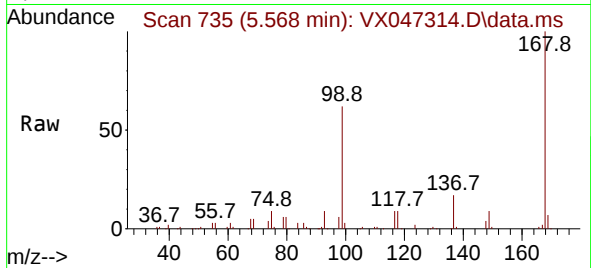




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

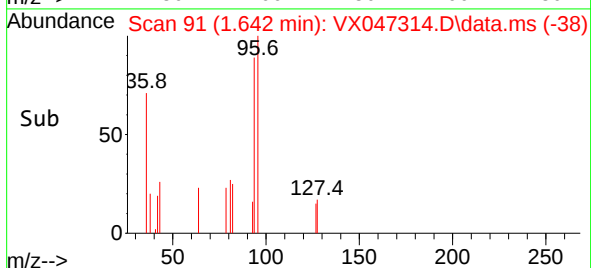
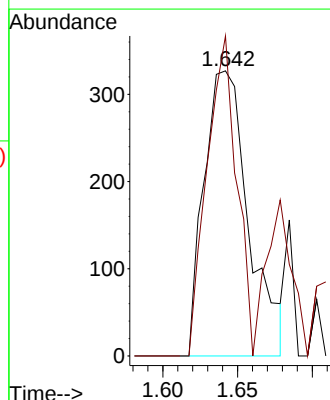
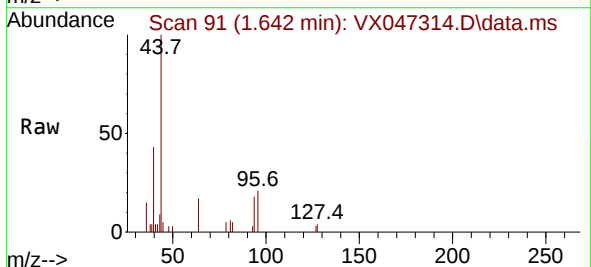
Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

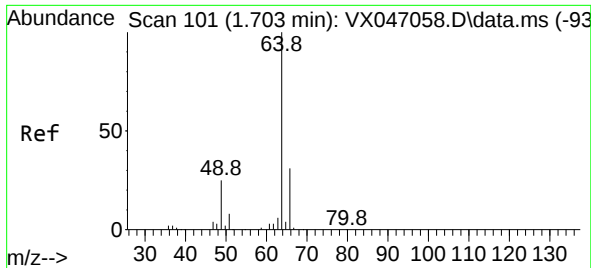
Tgt Ion:168 Resp: 179477
Ion Ratio Lower Upper
168 100
99 62.1 48.0 72.0



#5
Bromomethane
Concen: 0.492 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.025 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Tgt Ion: 94 Resp: 678
Ion Ratio Lower Upper
94 100
96 112.2 72.3 108.5#

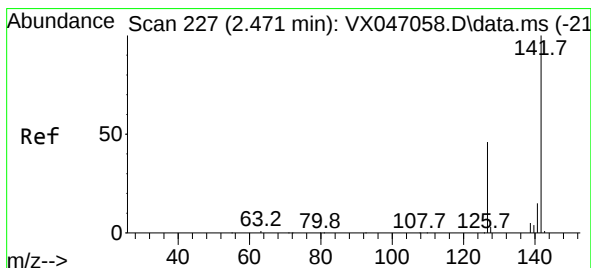
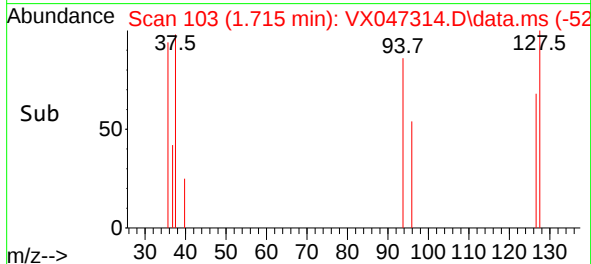
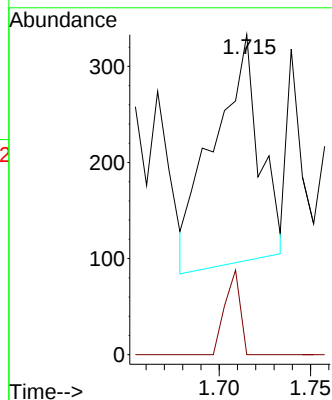
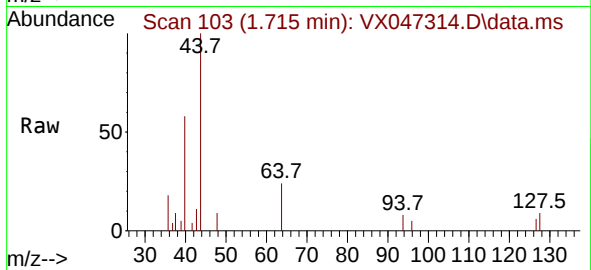




#6
Chloroethane
Concen: 0.244 ug/l
RT: 1.715 min Scan# 101
Delta R.T. 0.013 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

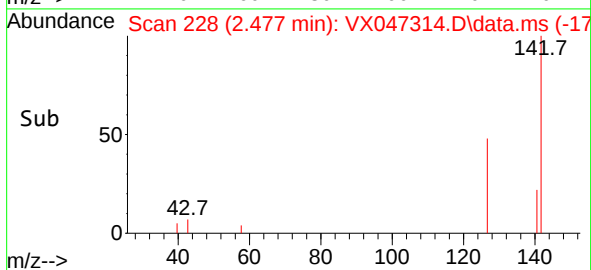
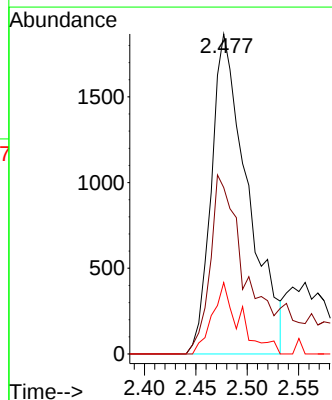
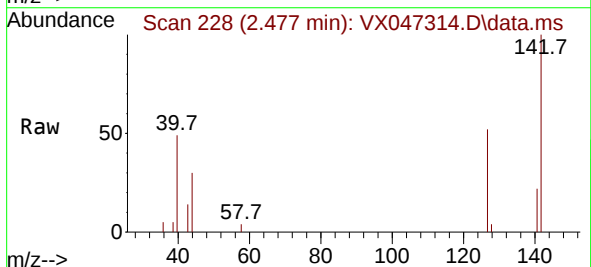
Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

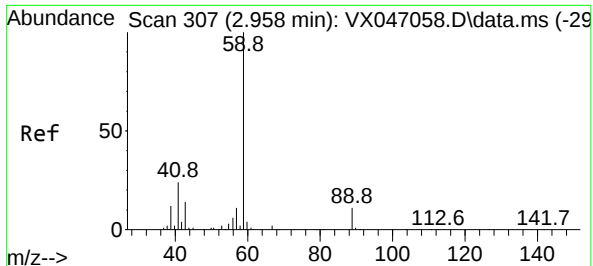
Tgt Ion: 64 Resp: 407
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#



#10
Methyl Iodide
Concen: 1.984 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.006 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Tgt Ion:142 Resp: 4604
Ion Ratio Lower Upper
142 100
127 62.0 36.6 54.8#
141 17.0 10.9 16.3#

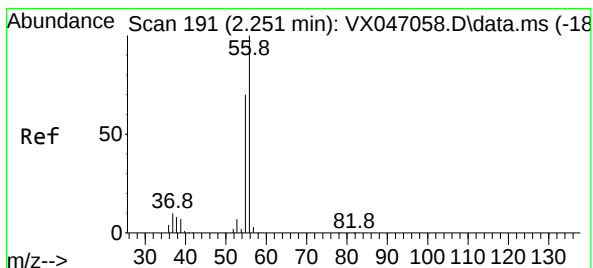
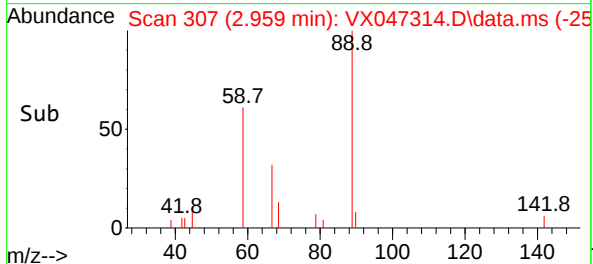
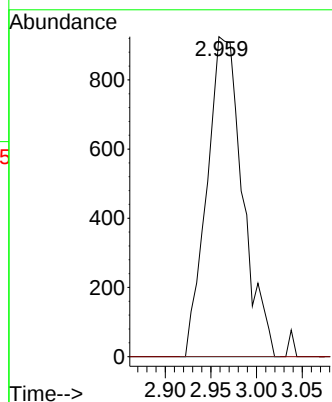
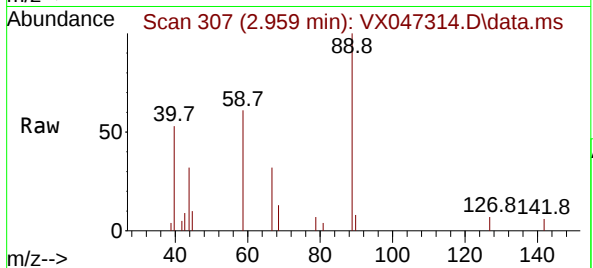




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.959 min Scan# 307
Delta R.T. 0.001 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

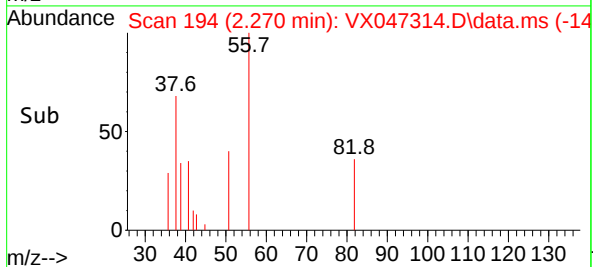
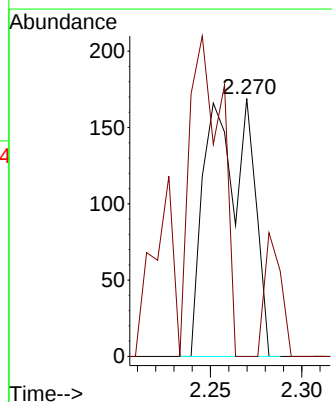
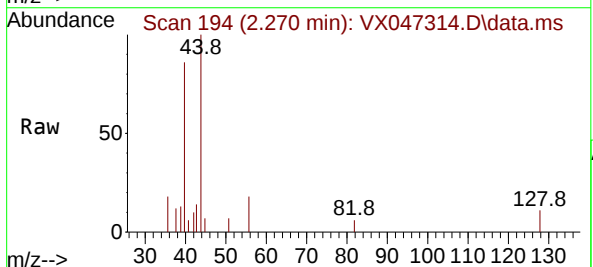
Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

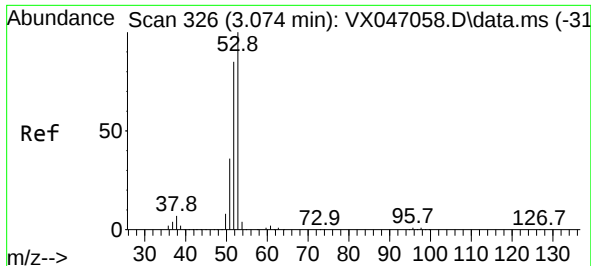
Tgt Ion: 59 Resp: 2510
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 0.590 ug/l
RT: 2.270 min Scan# 194
Delta R.T. 0.019 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Tgt Ion: 56 Resp: 284
Ion Ratio Lower Upper
56 100
55 17.6 55.7 83.5#

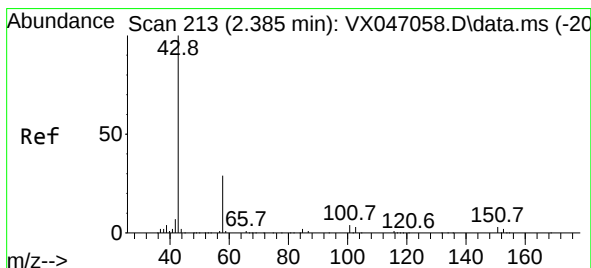
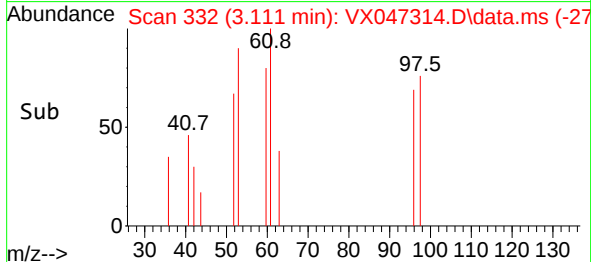
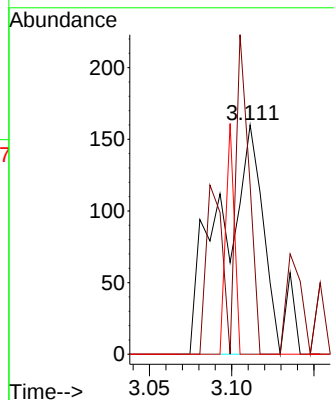
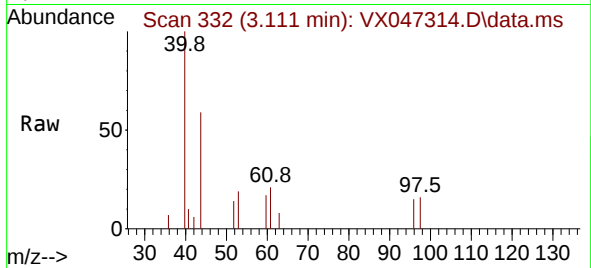




#15
Acrylonitrile
Concen: 0.266 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.037 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

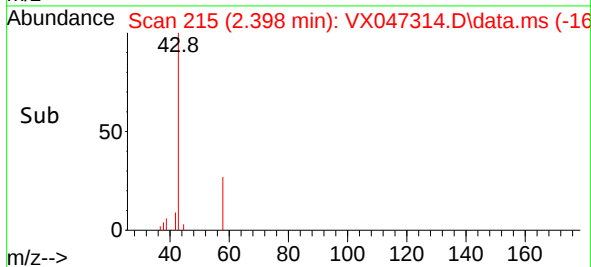
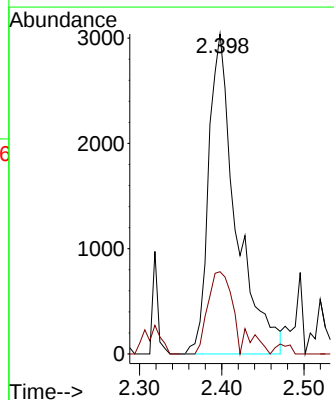
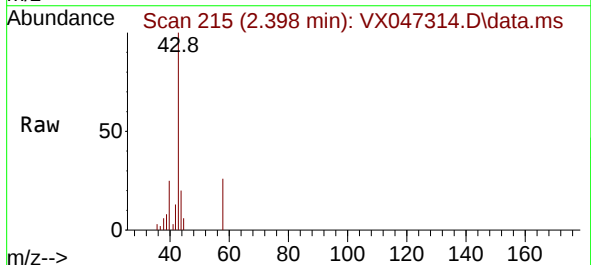
Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

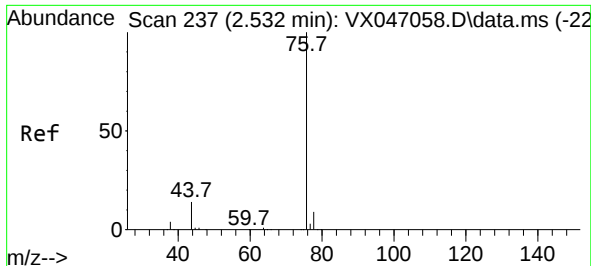
Tgt Ion: 53 Resp: 284
Ion Ratio Lower Upper
53 100
52 71.8 65.7 98.5
51 20.8 28.8 43.2#



#16
Acetone
Concen: 7.849 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.013 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Tgt Ion: 43 Resp: 7030
Ion Ratio Lower Upper
43 100
58 21.4 24.0 36.0#





#17

Carbon Disulfide

Concen: 0.415 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047314.D

Acq: 13 Aug 2025 12:13

Instrument :

MSVOA_X

ClientSampleId :

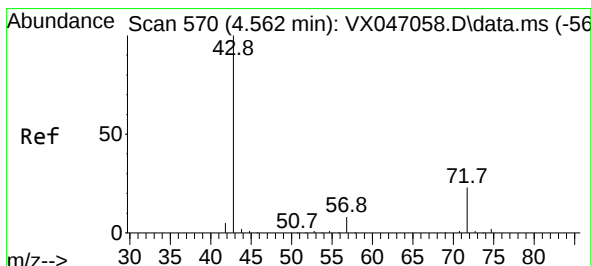
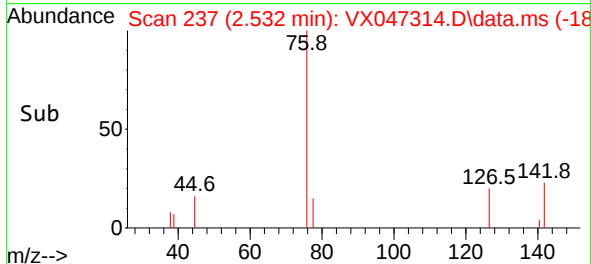
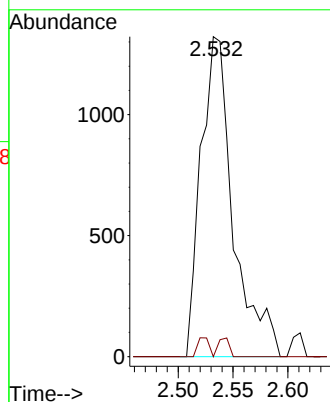
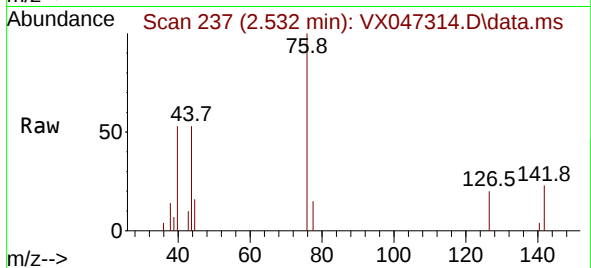
TW-BP-SRE

Tgt Ion: 76 Resp: 2708

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



#25

2-Butanone

Concen: 0.298 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.006 min

Lab File: VX047314.D

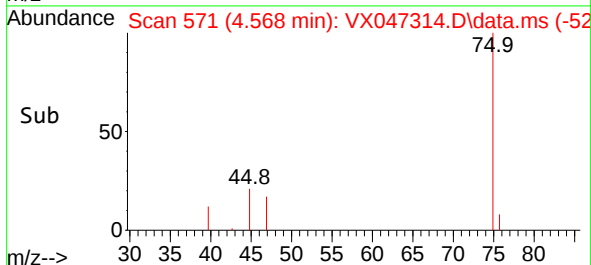
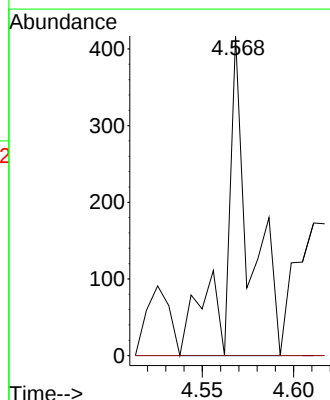
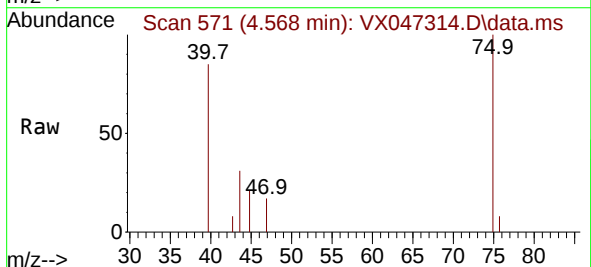
Acq: 13 Aug 2025 12:13

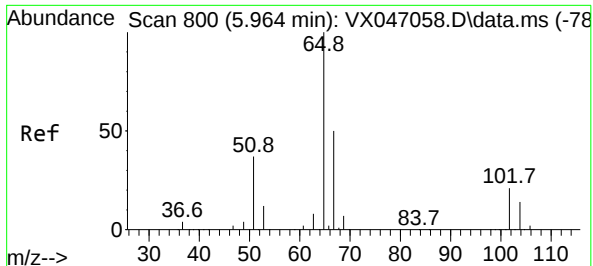
Tgt Ion: 43 Resp: 388

Ion Ratio Lower Upper

43 100

72 0.0 18.8 28.2#

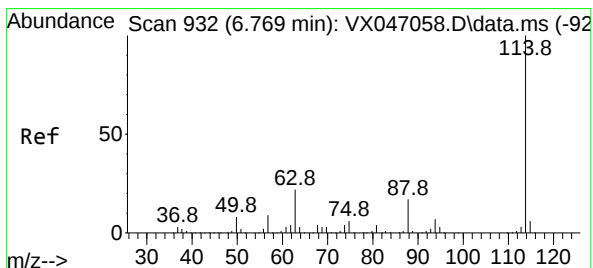
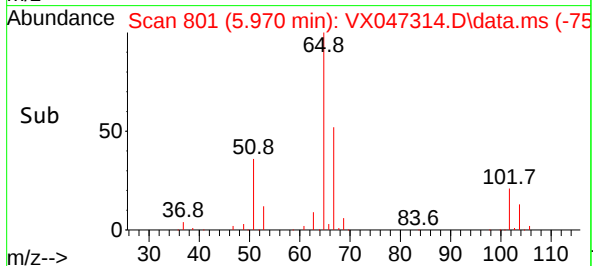
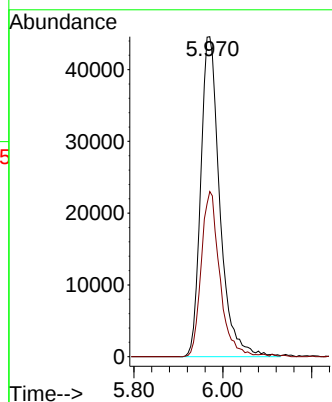
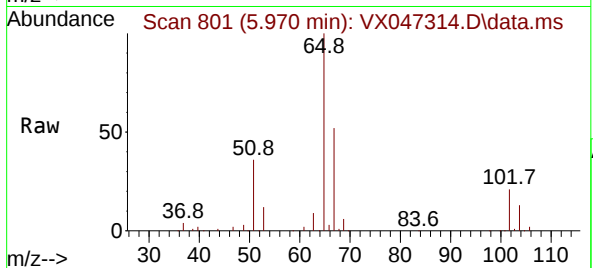




#33
1,2-Dichloroethane-d4
Concen: 59.607 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

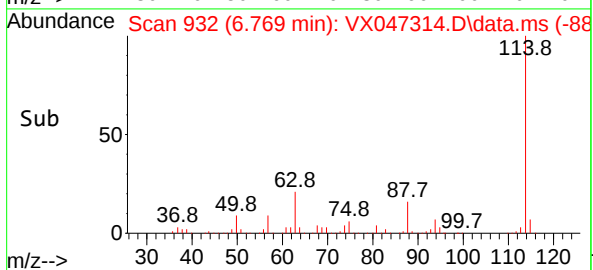
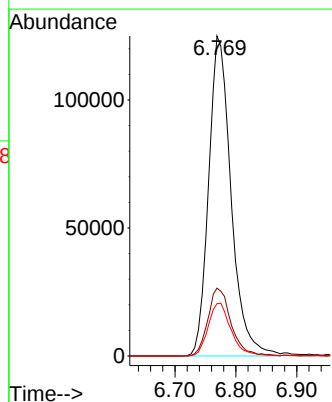
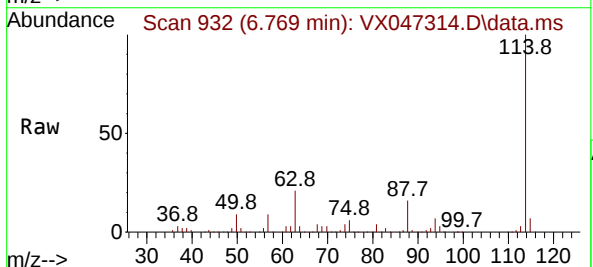
Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

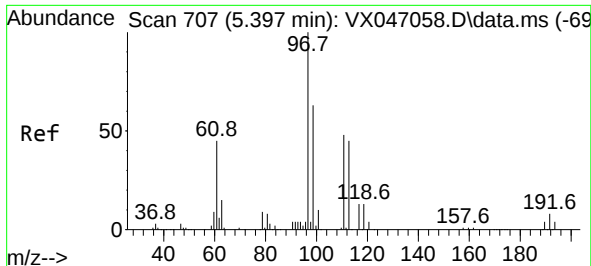
Tgt Ion: 65 Resp: 133264
Ion Ratio Lower Upper
65 100
67 50.2 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Tgt Ion: 114 Resp: 320322
Ion Ratio Lower Upper
114 100
63 21.2 0.0 43.2
88 16.3 0.0 33.8

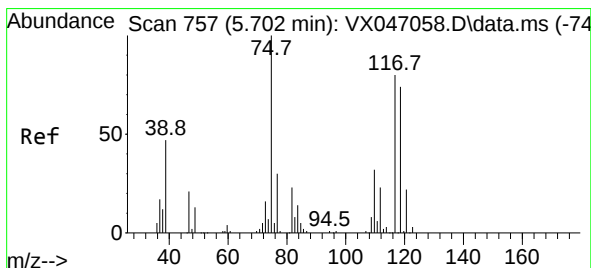
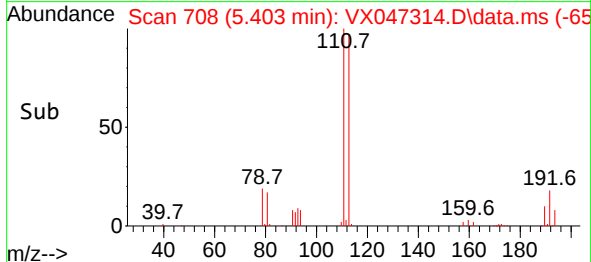
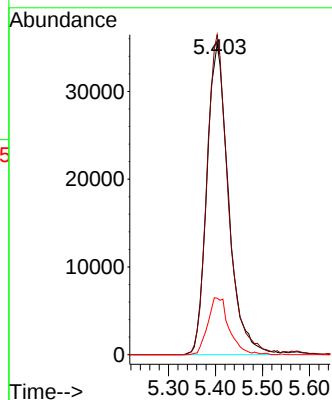
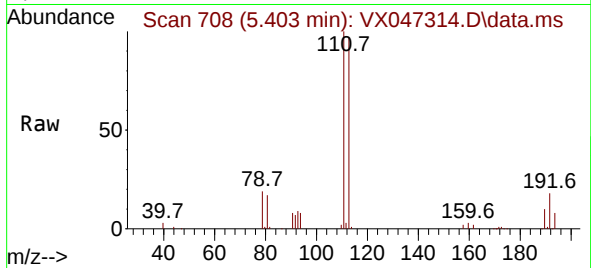




#35
Dibromofluoromethane
Concen: 57.446 ug/l
RT: 5.403 min Scan# 707
Delta R.T. 0.006 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

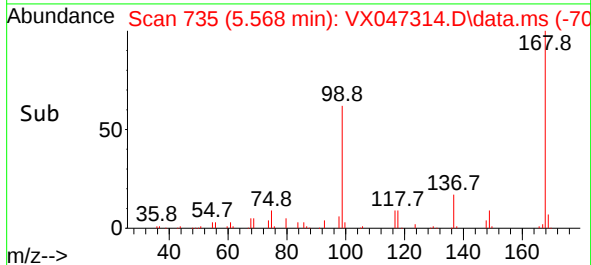
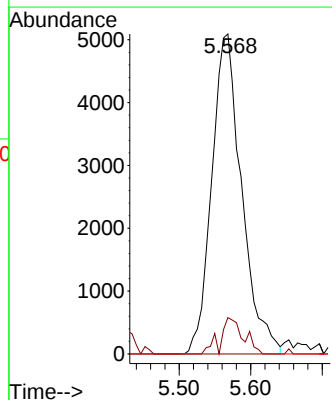
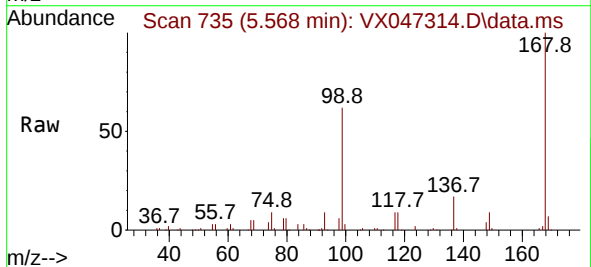
Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

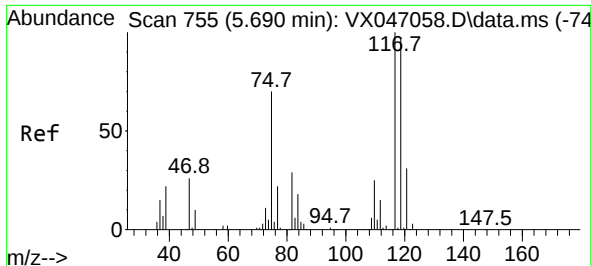
Tgt Ion:113 Resp: 113615
Ion Ratio Lower Upper
113 100
111 100.7 82.6 124.0
192 18.1 14.9 22.3



#36
1,1-Dichloropropene
Concen: 4.388 ug/l
RT: 5.568 min Scan# 735
Delta R.T. -0.134 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

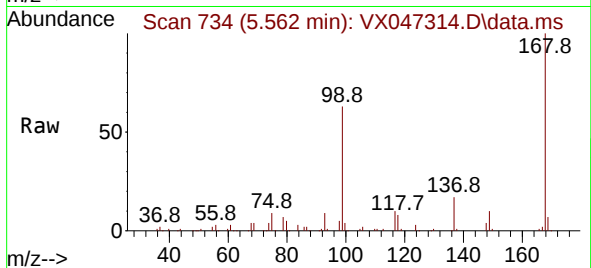
Tgt Ion: 75 Resp: 14792
Ion Ratio Lower Upper
75 100
110 8.7 17.2 51.5#
77 0.0 25.1 37.7#



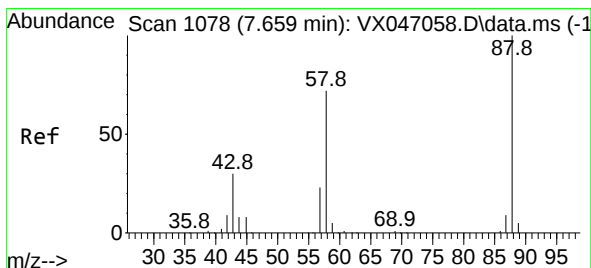
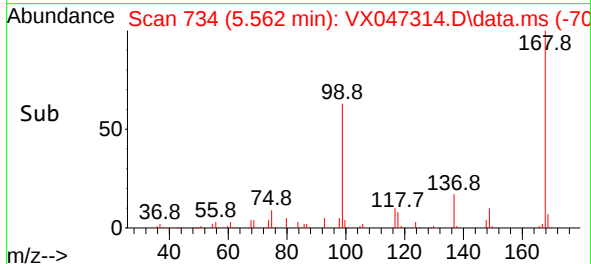
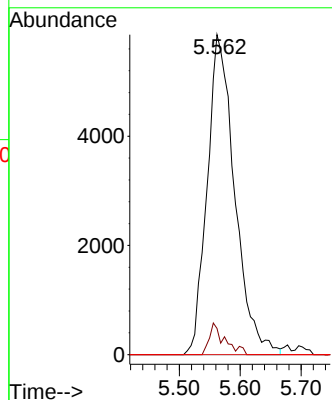


#38
Carbon Tetrachloride
Concen: 5.118 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

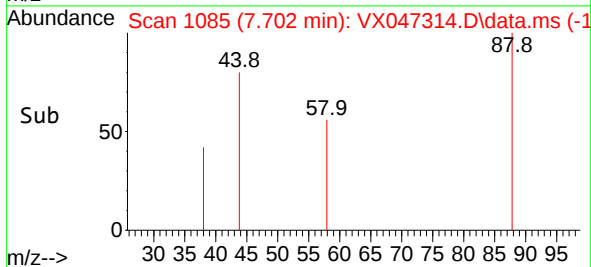
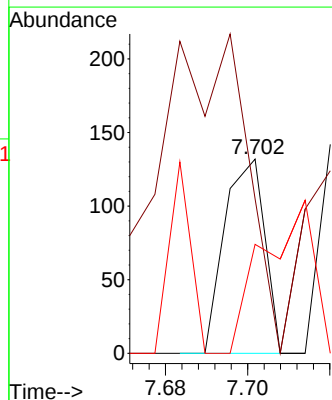
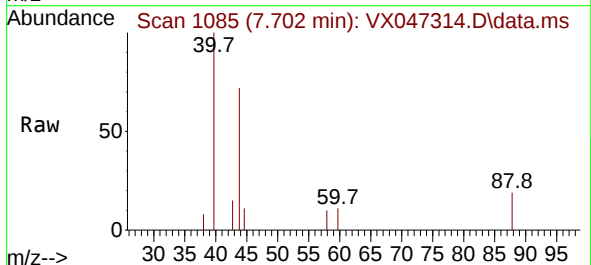


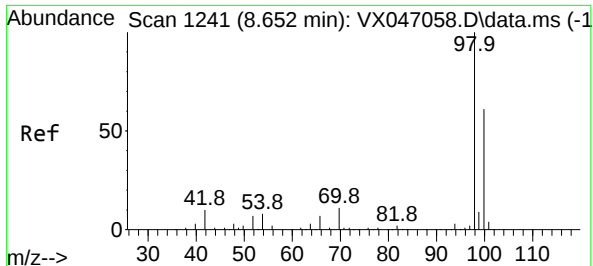
Tgt Ion:117 Resp: 18417
Ion Ratio Lower Upper
117 100
119 8.2 76.6 115.0#
121 0.0 24.4 36.6#



#49
1,4-Dioxane
Concen: 2.966 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.043 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Tgt Ion: 88 Resp: 89
Ion Ratio Lower Upper
88 100
43 330.3 33.6 50.4#
58 53.9 58.8 88.2#

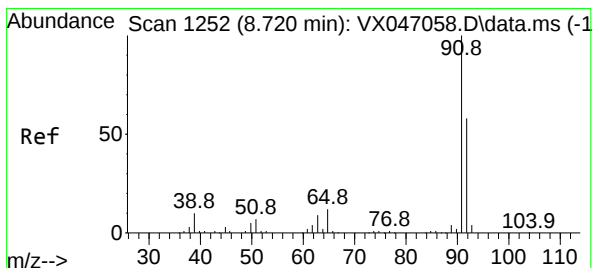
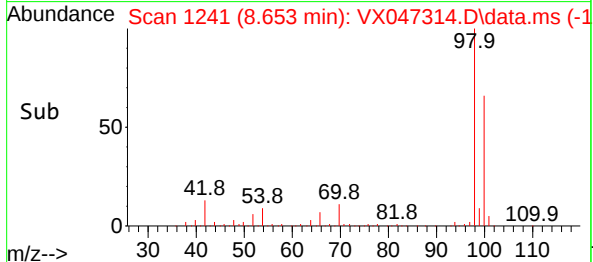
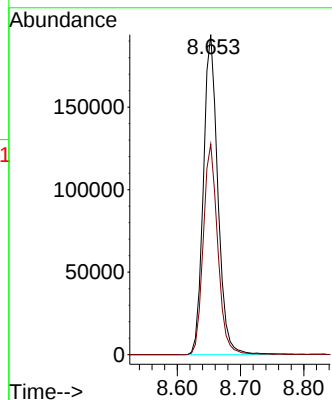
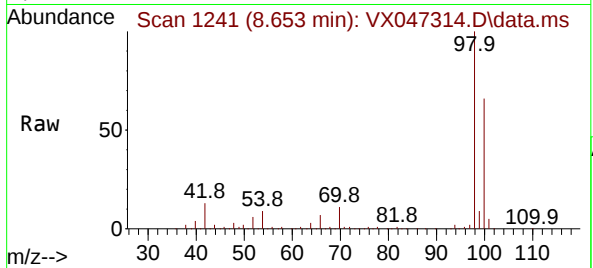




#50
Toluene-d8
Concen: 48.297 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

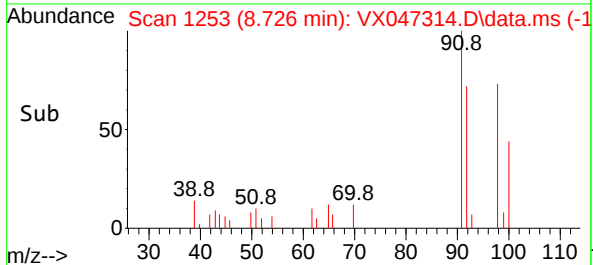
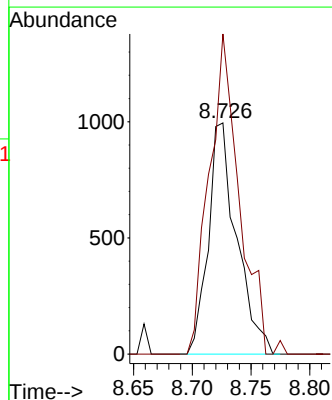
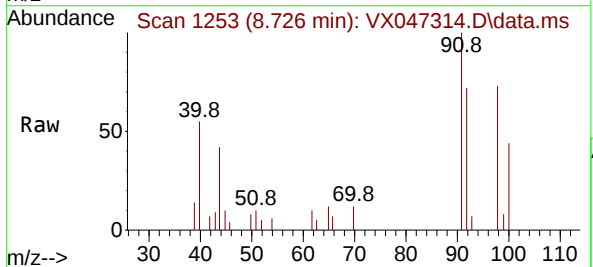
Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

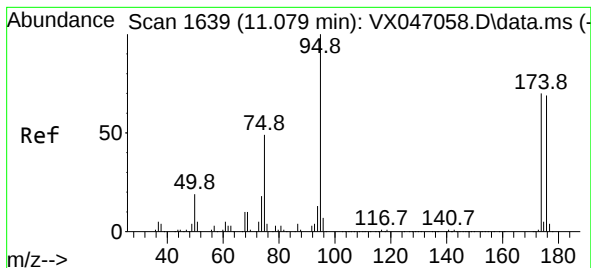
Tgt Ion: 98 Resp: 309343
Ion Ratio Lower Upper
98 100
100 65.9 53.3 79.9



#52
Toluene
Concen: 0.278 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Tgt Ion: 92 Resp: 1668
Ion Ratio Lower Upper
92 100
91 146.2 137.9 206.9

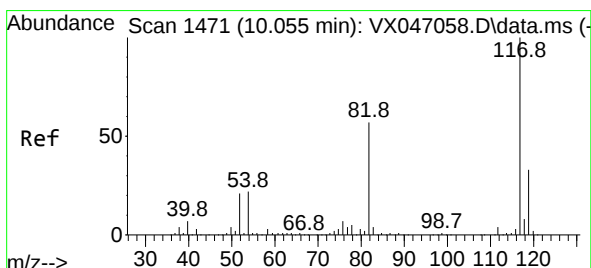
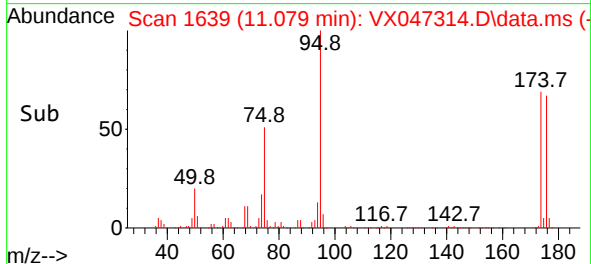
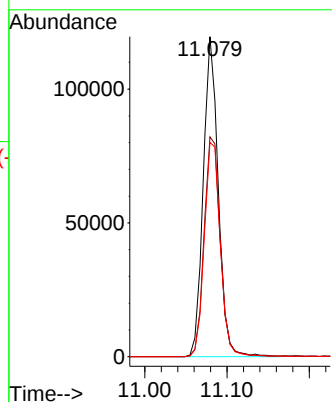
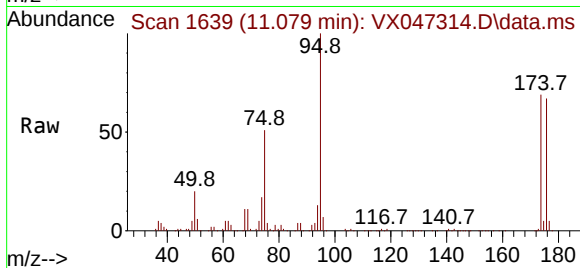




#62
4-Bromofluorobenzene
Concen: 55.142 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

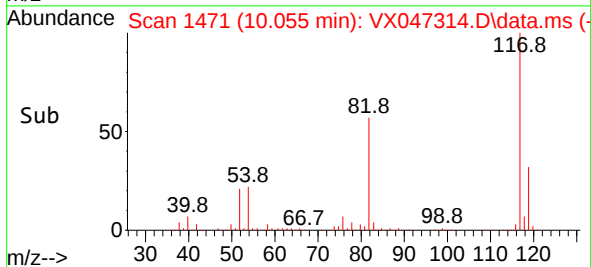
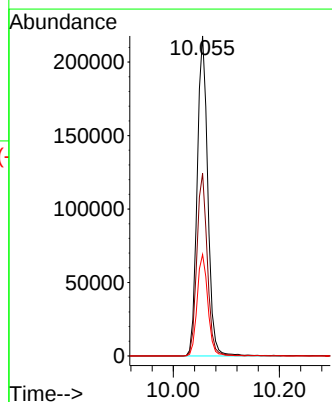
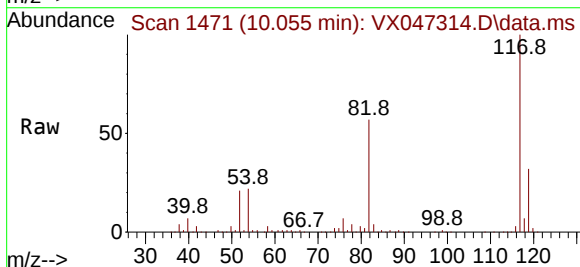
Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

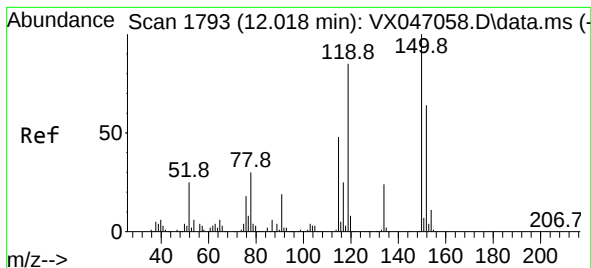
Tgt Ion: 95 Resp: 152202
Ion Ratio Lower Upper
95 100
174 73.7 0.0 144.6
176 71.4 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Tgt Ion: 117 Resp: 302132
Ion Ratio Lower Upper
117 100
82 57.0 45.4 68.2
119 31.7 26.1 39.1

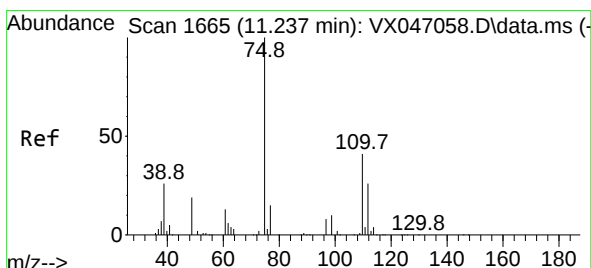
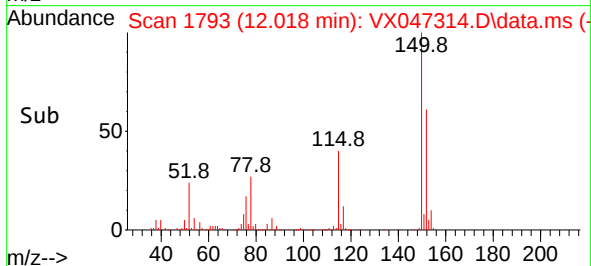
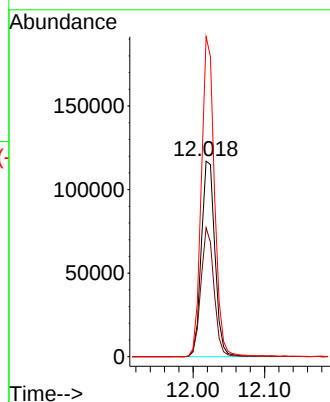
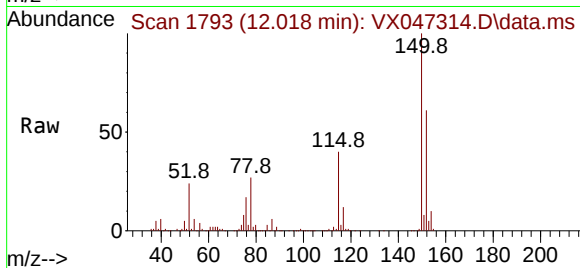




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

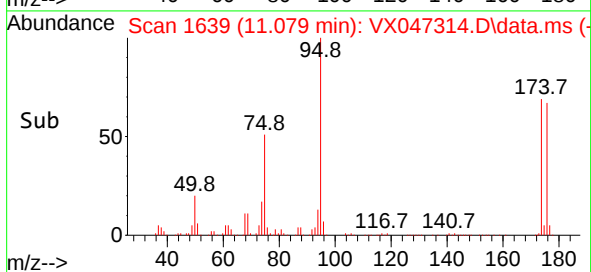
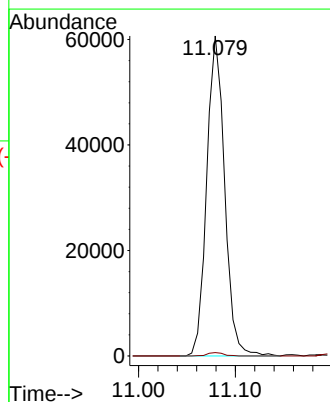
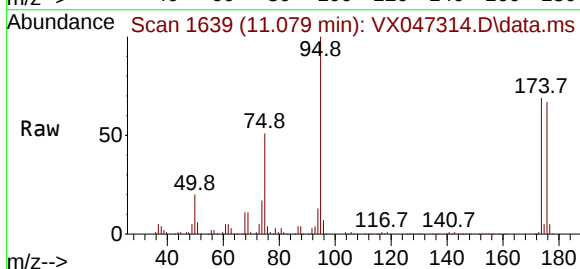
Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

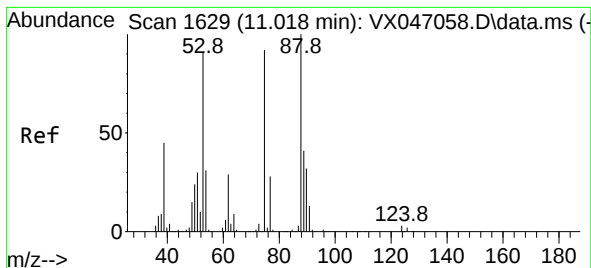
Tgt Ion:152 Resp: 155373
Ion Ratio Lower Upper
152 100
115 63.1 45.6 136.7
150 157.6 0.0 354.6



#76
1,2,3-Trichloropropane
Concen: 27.156 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Tgt Ion: 75 Resp: 78097
Ion Ratio Lower Upper
75 100
77 1.0 21.6 65.0#

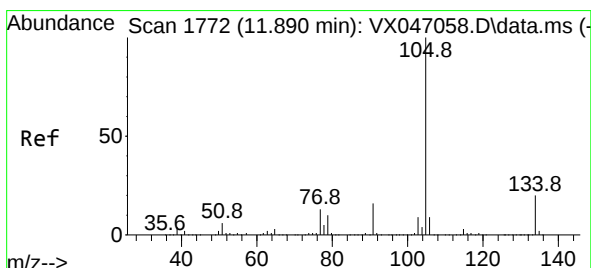
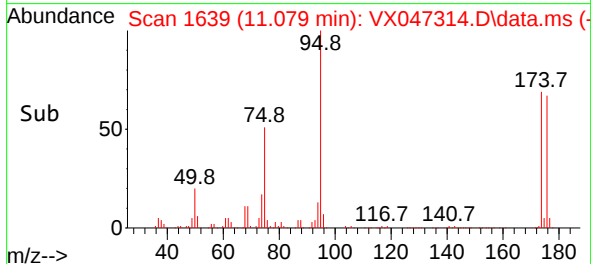
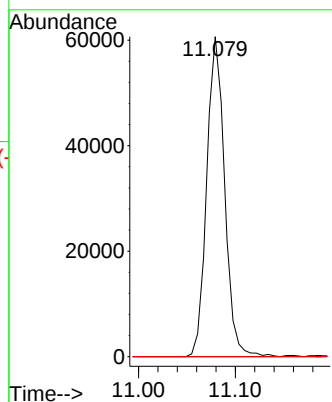
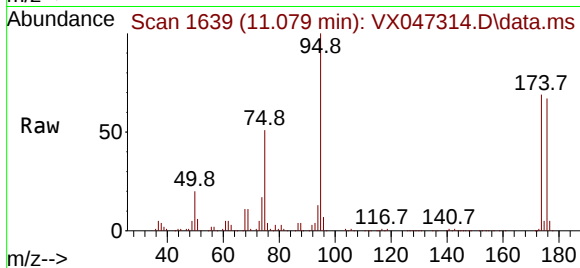




#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.964 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.061 min
 Lab File: VX047314.D
 Acq: 13 Aug 2025 12:13

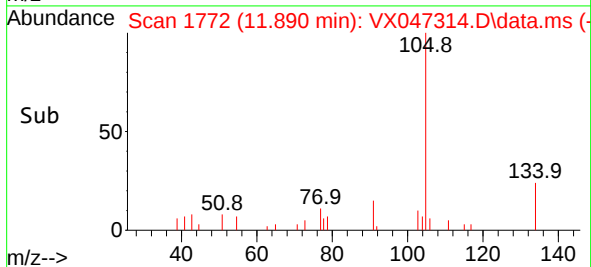
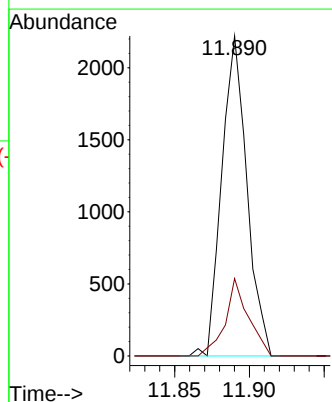
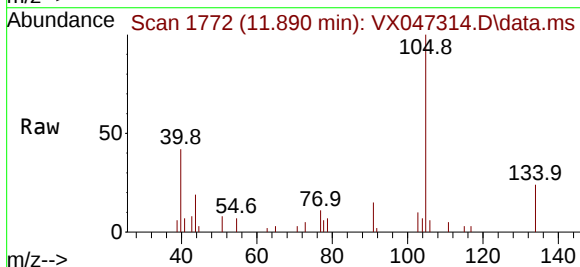
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-BP-SRE

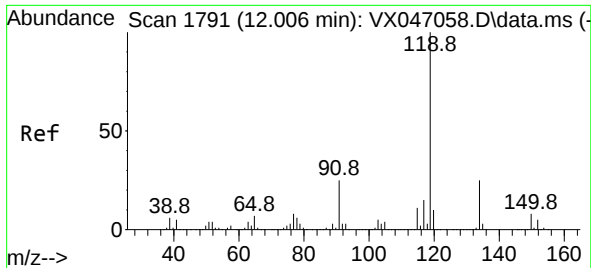
Tgt Ion: 75 Resp: 78097
 Ion Ratio Lower Upper
 75 100
 53 0.0 84.2 126.4#
 89 0.0 36.0 54.0#



#85
 sec-Butylbenzene
 Concen: 0.204 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX047314.D
 Acq: 13 Aug 2025 12:13

Tgt Ion:105 Resp: 2589
 Ion Ratio Lower Upper
 105 100
 134 22.2 9.9 29.7

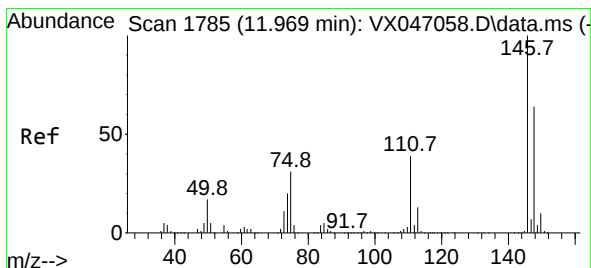
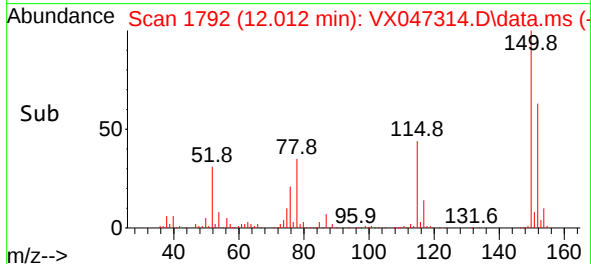
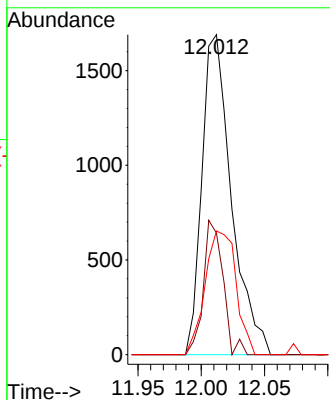
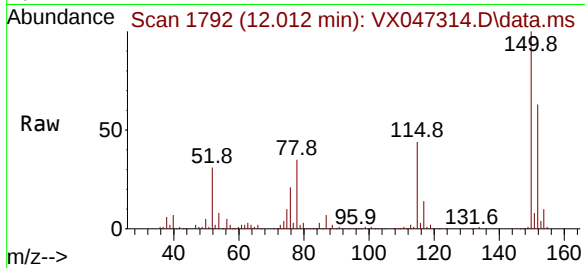




#86
p-Isopropyltoluene
Concen: 0.261 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

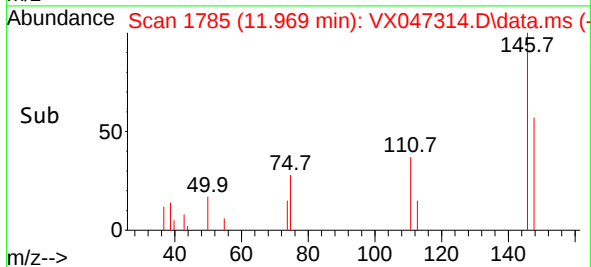
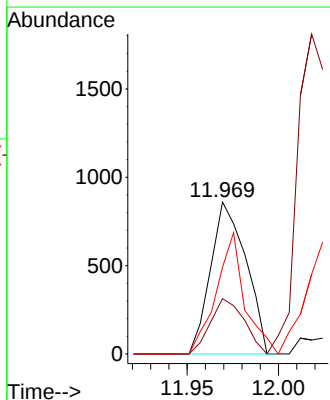
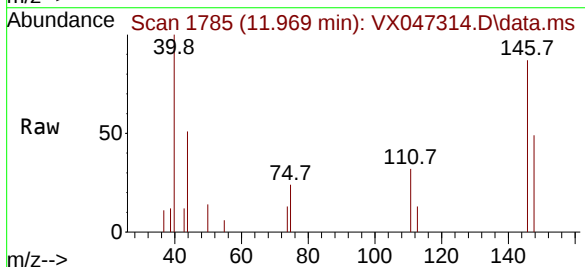
Instrument :
MSVOA_X
ClientSampleId :
TW-BP-SRE

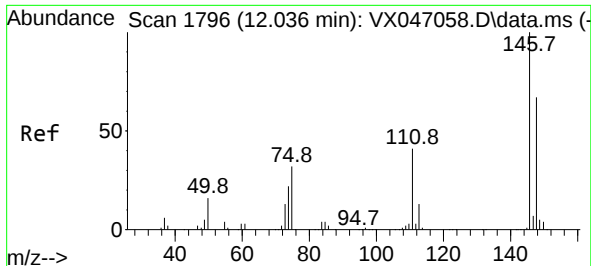
Tgt Ion:119 Resp: 2747
Ion Ratio Lower Upper
119 100
134 27.7 12.8 38.4
91 40.4 12.4 37.4#



#87
1,3-Dichlorobenzene
Concen: 0.207 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX047314.D
Acq: 13 Aug 2025 12:13

Tgt Ion:146 Resp: 1158
Ion Ratio Lower Upper
146 100
111 34.8 21.0 63.0
148 64.5 32.0 96.0





#88

1,4-Dichlorobenzene

Concen: 0.205 ug/l

RT: 11.969 min Scan# 11

Delta R.T. -0.067 min

Lab File: VX047314.D

Acq: 13 Aug 2025 12:13

Instrument :

MSVOA_X

ClientSampleId :

TW-BP-SRE

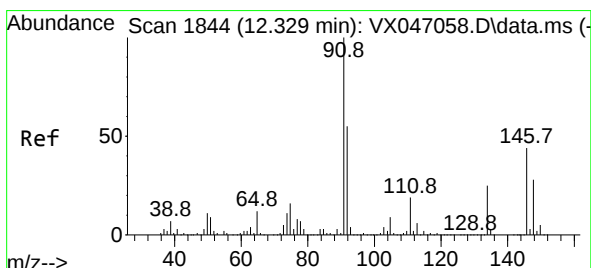
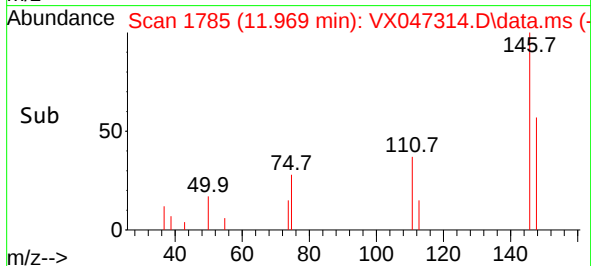
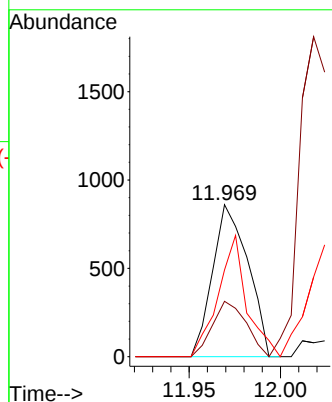
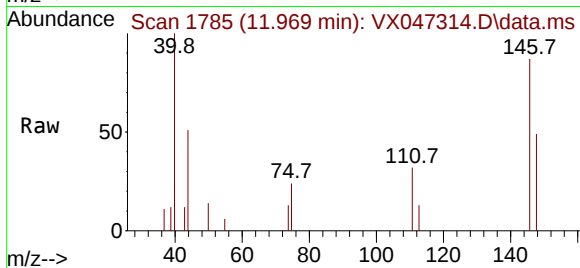
Tgt Ion:146 Resp: 1158

Ion Ratio Lower Upper

146 100

111 34.8 20.6 61.9

148 64.5 33.0 98.9



#89

n-Butylbenzene

Concen: 0.340 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX047314.D

Acq: 13 Aug 2025 12:13

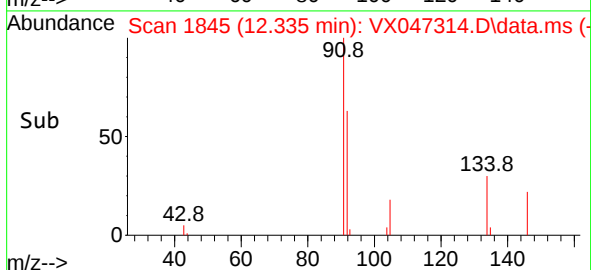
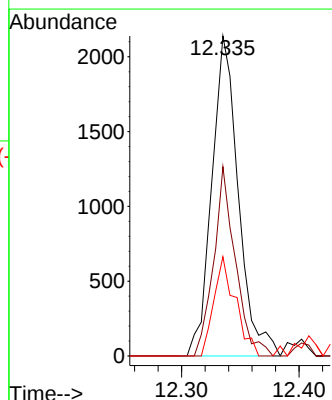
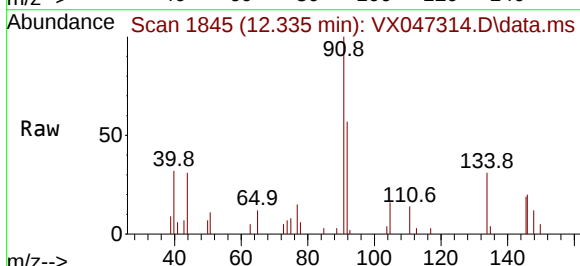
Tgt Ion: 91 Resp: 3362

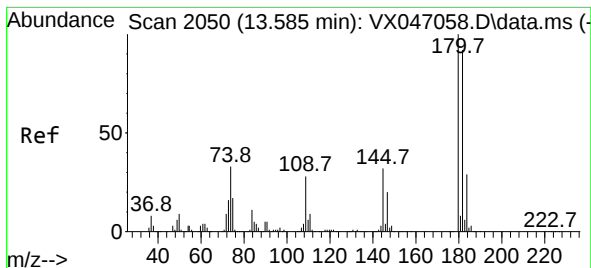
Ion Ratio Lower Upper

91 100

92 48.5 27.5 82.5

134 25.2 12.8 38.3





#93

1,2,4-Trichlorobenzene

Concen: 0.535 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX047314.D

Acq: 13 Aug 2025 12:13

Instrument :

MSVOA_X

ClientSampleId :

TW-BP-SRE

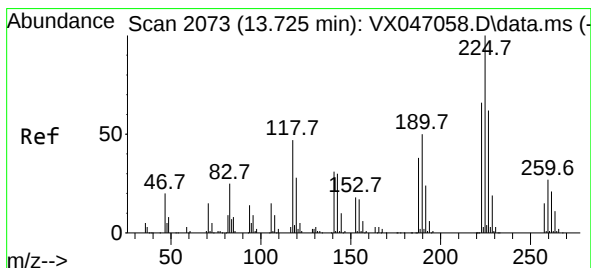
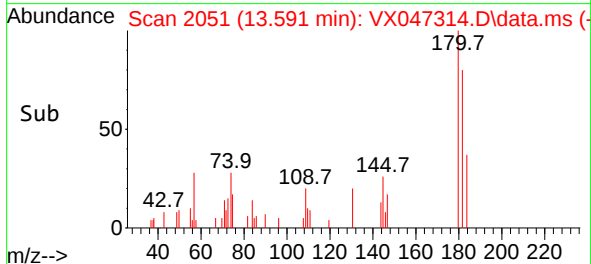
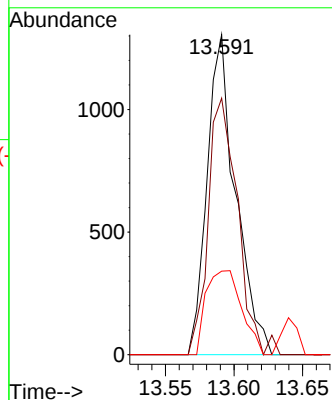
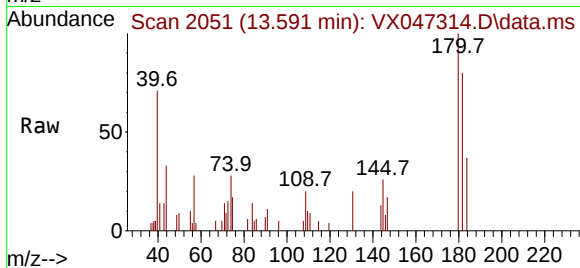
Tgt Ion:180 Resp: 1888

Ion Ratio Lower Upper

180 100

182 82.9 47.3 141.8

145 32.8 16.4 49.1



#94

Hexachlorobutadiene

Concen: 2.045 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX047314.D

Acq: 13 Aug 2025 12:13

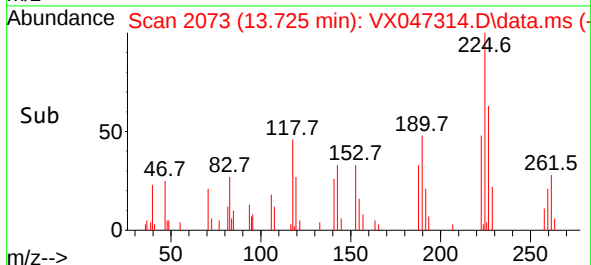
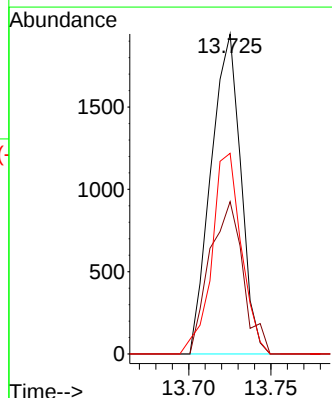
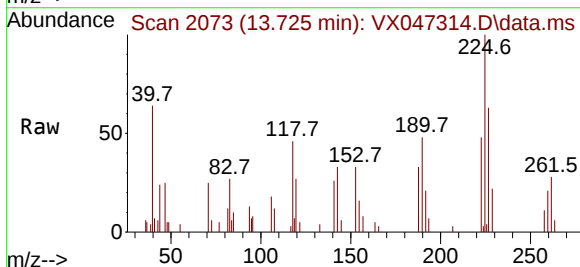
Tgt Ion:225 Resp: 2453

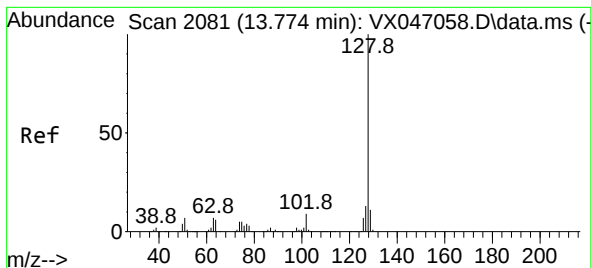
Ion Ratio Lower Upper

225 100

223 53.4 31.6 95.0

227 62.2 32.9 98.6





#95

Naphthalene

Concen: 0.396 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX047314.D

Acq: 13 Aug 2025 12:13

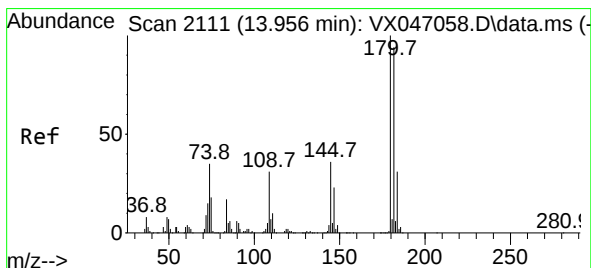
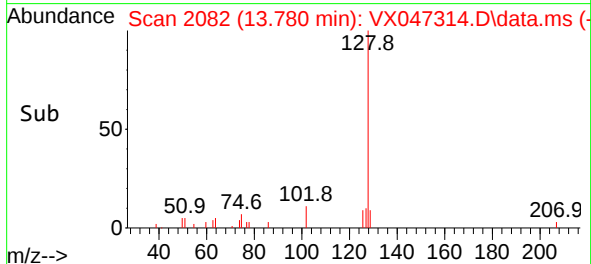
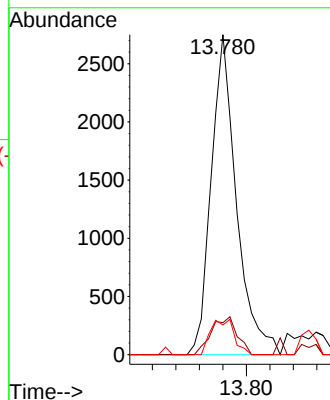
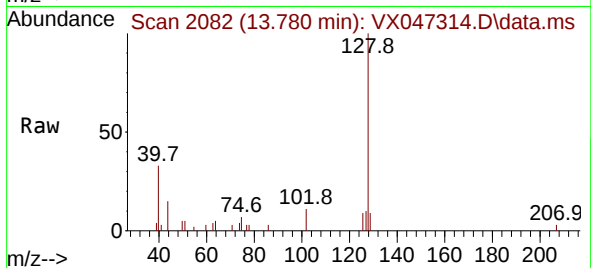
Instrument :

MSVOA_X

ClientSampleId :

TW-BP-SRE

Tgt Ion:	128	Resp:	4096
Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.1	15.1
129	10.4	8.6	13.0



#96

1,2,3-Trichlorobenzene

Concen: 0.494 ug/l

RT: 13.969 min Scan# 2113

Delta R.T. 0.013 min

Lab File: VX047314.D

Acq: 13 Aug 2025 12:13

Tgt Ion:	180	Resp:	1680
Ion	Ratio	Lower	Upper
180	100		
182	100.8	46.9	140.6
145	37.1	17.3	52.0

