

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
 Data File : VX047323.D
 Acq On : 13 Aug 2025 15:29
 Operator : JC/MD
 Sample : Q2837-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-13

Quant Time: Aug 14 03:30:19 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)

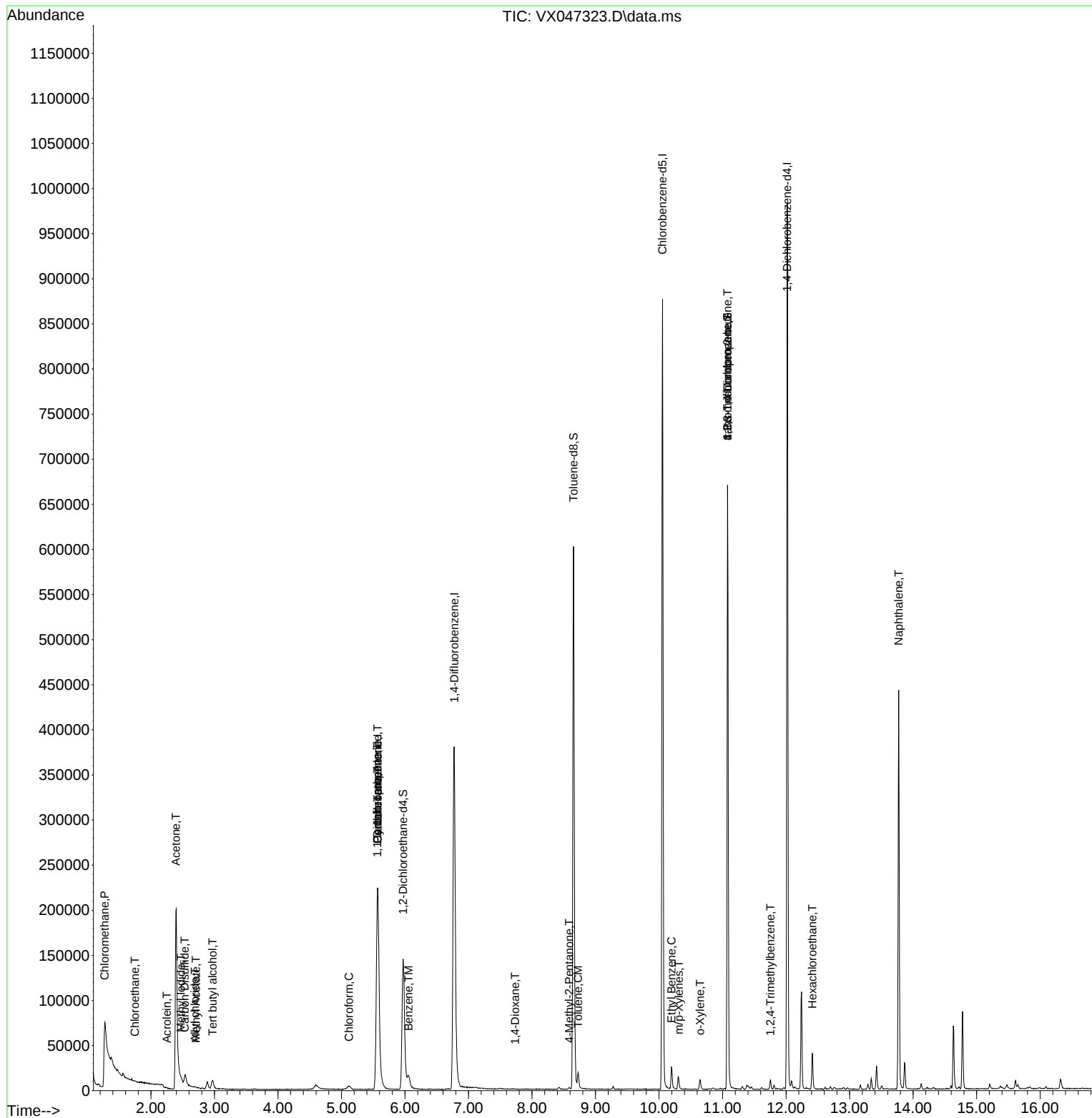
Internal Standards						
1) Pentafluorobenzene	5.568	168	227321	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	419762	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	382728	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	196082	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	154699	54.631	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.260%			
35) Dibromofluoromethane	5.416	113	137	0.053	ug/l	0.02
Spiked Amount 50.000	Range 75 - 124		Recovery = 0.100%#			
50) Toluene-d8	8.653	98	357451	42.588	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 85.180%#			
62) 4-Bromofluorobenzene	11.079	95	176799	48.879	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.760%			
Target Compounds					Qvalue	
3) Chloromethane	1.270	50	4112	1.377	ug/l #	43
6) Chloroethane	1.746	64	999	0.474	ug/l #	43
10) Methyl Iodide	2.471	142	2464	0.838	ug/l #	87
11) Tert butyl alcohol	2.971	59	10313	21.764	ug/l #	83
13) Acrolein	2.252	56	156	0.256	ug/l #	36
14) Allyl chloride	2.691	41	1824	0.353	ug/l #	66
16) Acetone	2.392	43	309784	273.085	ug/l	99
17) Carbon Disulfide	2.532	76	12021	1.455	ug/l #	92
18) Methyl Acetate	2.709	43	1706	0.566	ug/l #	54
30) Chloroform	5.117	83	4210	0.749	ug/l	97
31) Cyclohexane	5.568	56	5272	0.996	ug/l #	22
36) 1,1-Dichloropropene	5.562	75	18789	4.253	ug/l #	45
38) Carbon Tetrachloride	5.568	117	24611	5.219	ug/l #	16
40) Benzene	6.056	78	16186	1.266	ug/l #	82
49) 1,4-Dioxane	7.732	88	19	0.483	ug/l #	1
51) 4-Methyl-2-Pentanone	8.586	43	1628	0.432	ug/l	91
52) Toluene	8.726	92	7007	0.891	ug/l	99
67) Ethyl Benzene	10.195	91	14919	0.952	ug/l	92
68) m/p-Xylenes	10.311	106	3826	0.652	ug/l	94
69) o-Xylene	10.646	106	2624	0.470	ug/l	95
76) 1,2,3-Trichloropropane	11.079	75	91920	25.327	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	91920	65.251	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.756	105	4803	0.377	ug/l	99
90) Hexachloroethane	12.414	117	1529	0.643	ug/l #	15
95) Naphthalene	13.774	128	263338	20.177	ug/l	99

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

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TW-WTS-13

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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

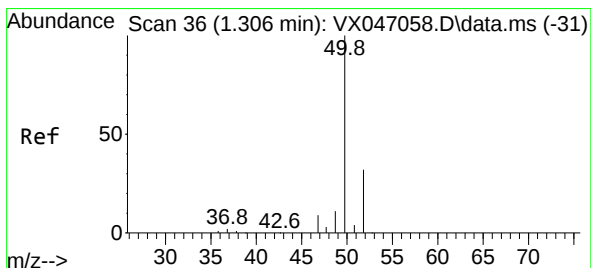
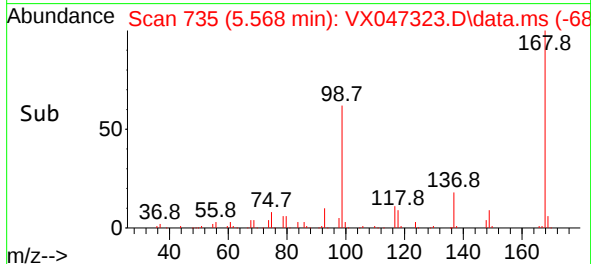
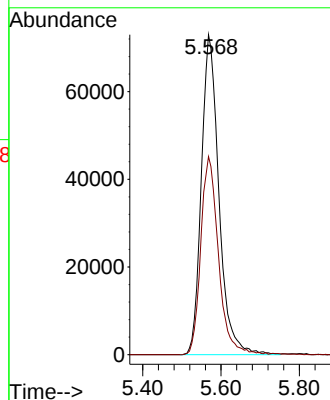
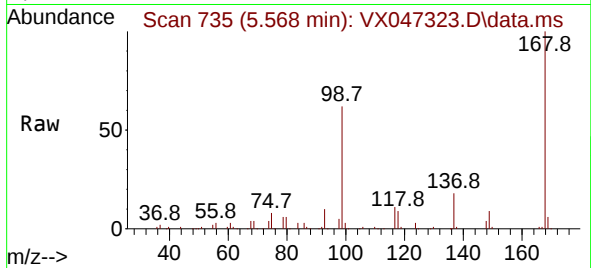




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

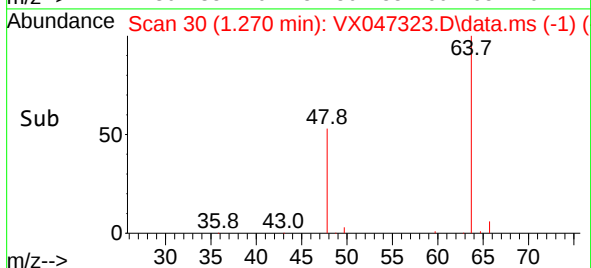
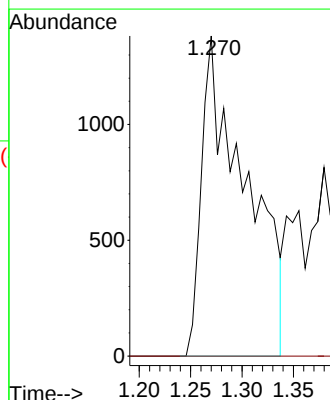
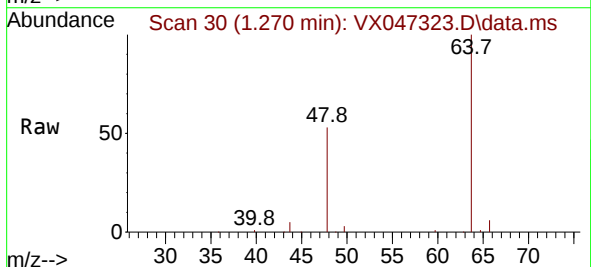
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

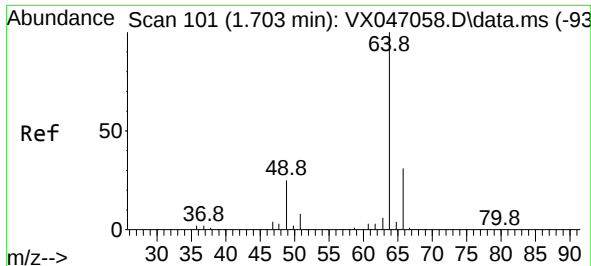
Tgt Ion:168 Resp: 227321
Ion Ratio Lower Upper
168 100
99 61.9 48.0 72.0



#3
Chloromethane
Concen: 1.377 ug/l
RT: 1.270 min Scan# 30
Delta R.T. -0.036 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

Tgt Ion: 50 Resp: 4112
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#

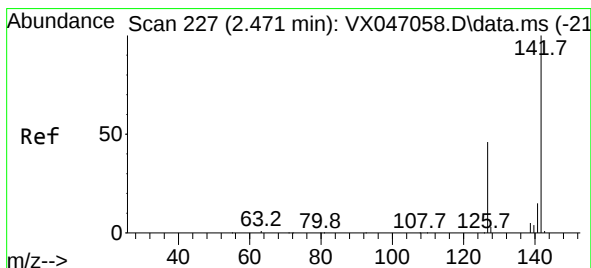
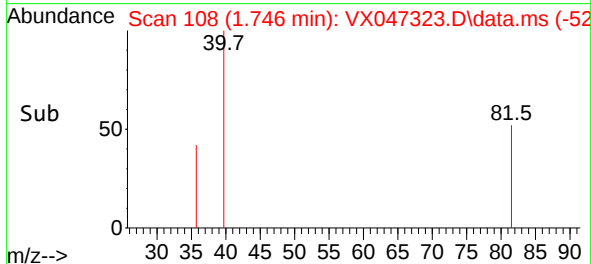
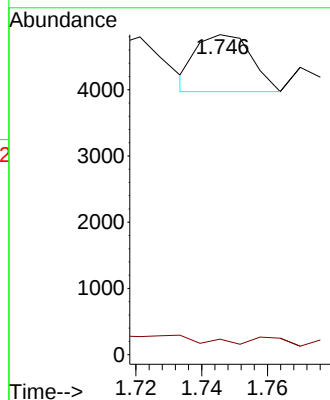
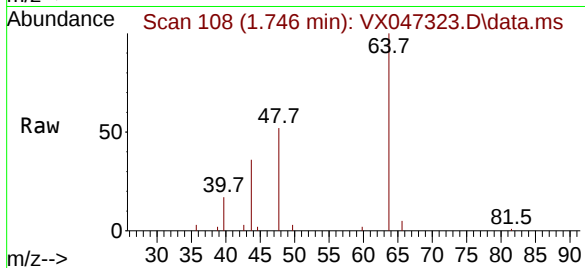




#6
Chloroethane
Concen: 0.474 ug/l
RT: 1.746 min Scan# 101
Delta R.T. 0.043 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

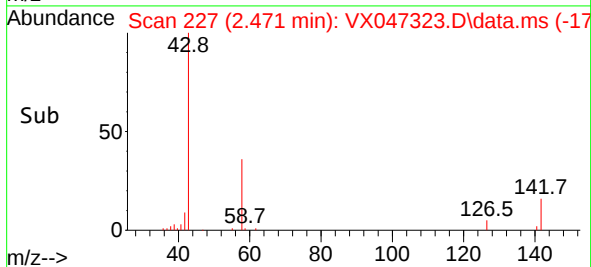
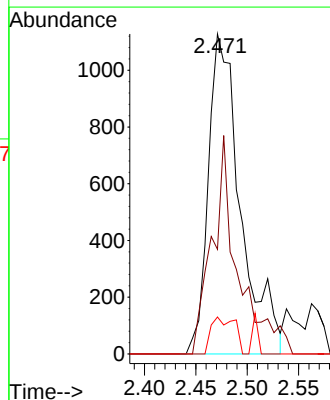
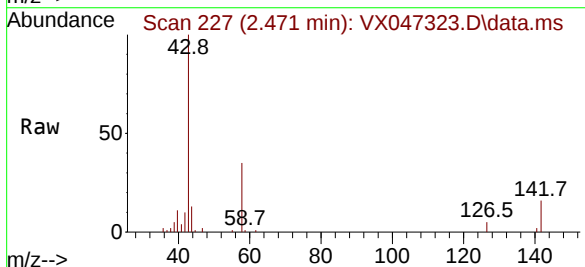
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

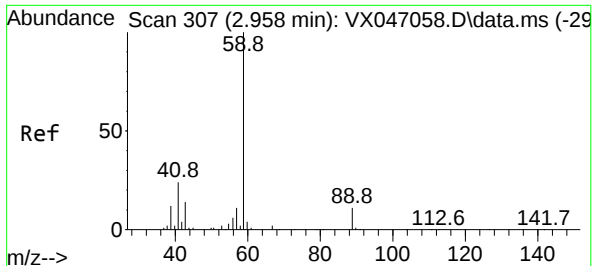
Tgt Ion: 64 Resp: 999
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#



#10
Methyl Iodide
Concen: 0.838 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

Tgt Ion: 142 Resp: 2464
Ion Ratio Lower Upper
142 100
127 54.5 36.6 54.8
141 8.4 10.9 16.3#

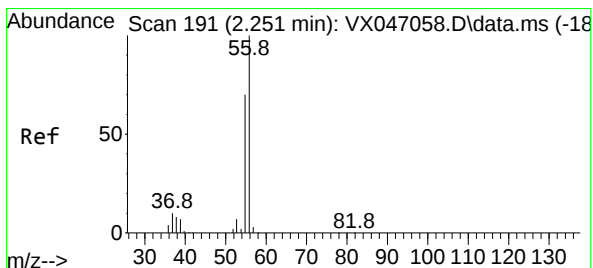
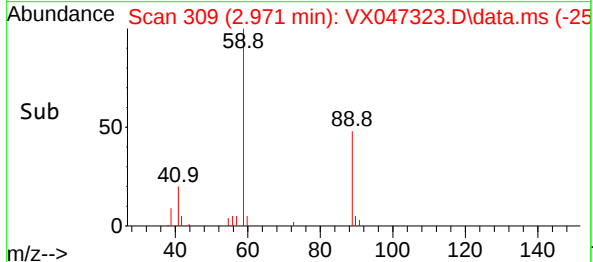
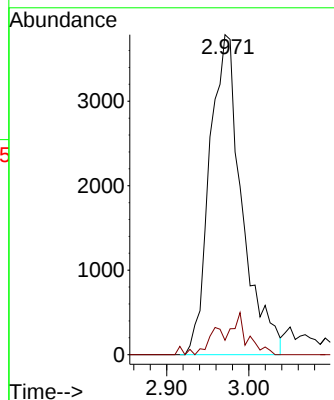
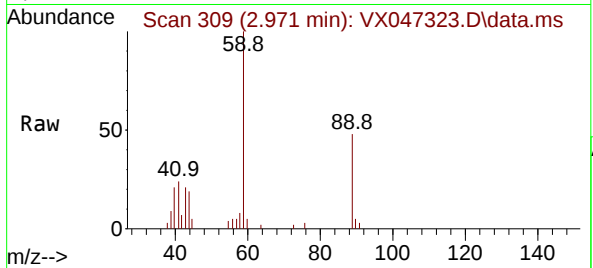




#11
Tert butyl alcohol
Concen: 21.764 ug/l
RT: 2.971 min Scan# 307
Delta R.T. 0.013 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

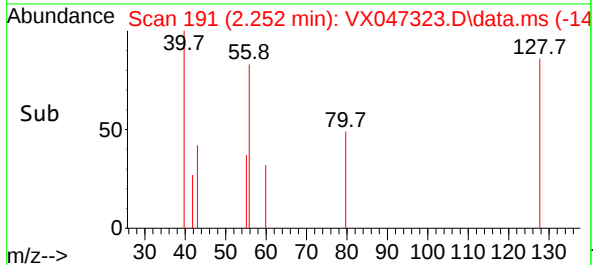
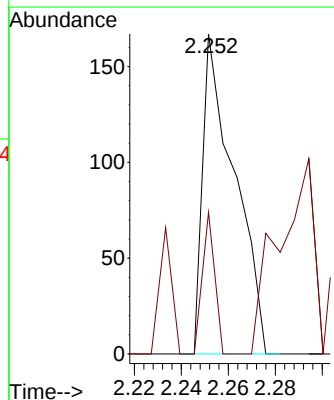
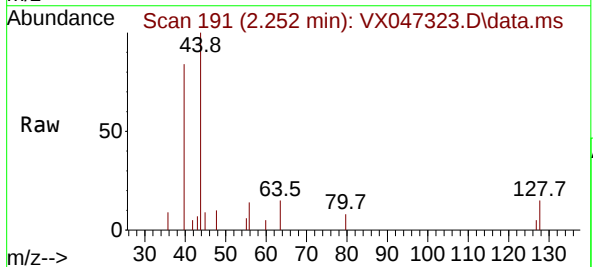
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

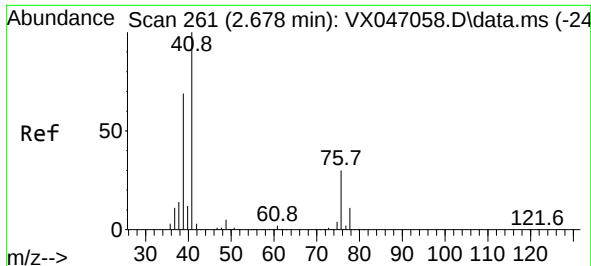
Tgt Ion: 59 Resp: 10313
Ion Ratio Lower Upper
59 100
57 4.0 8.5 12.7#



#13
Acrolein
Concen: 0.256 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.000 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

Tgt Ion: 56 Resp: 156
Ion Ratio Lower Upper
56 100
55 17.3 55.7 83.5#

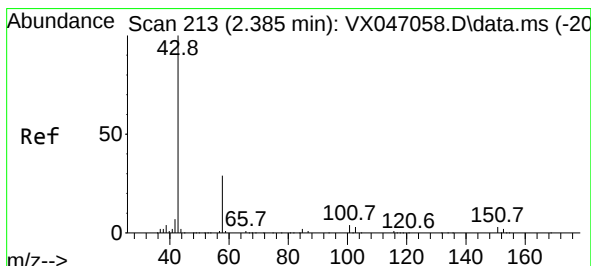
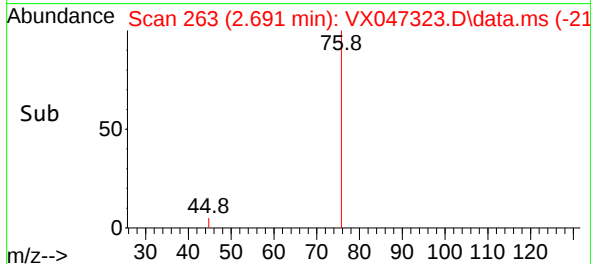
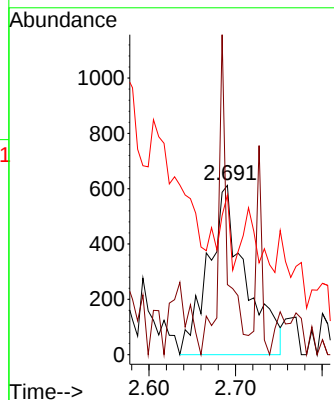
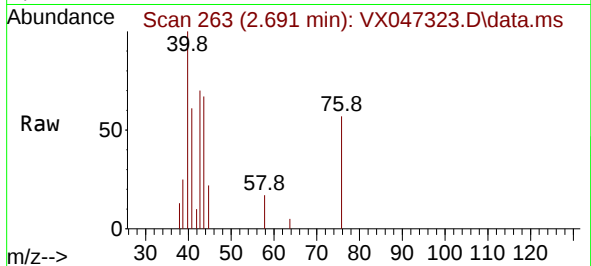




#14
 Allyl chloride
 Concen: 0.353 ug/l
 RT: 2.691 min Scan# 214
 Delta R.T. 0.013 min
 Lab File: VX047323.D
 Acq: 13 Aug 2025 15:29

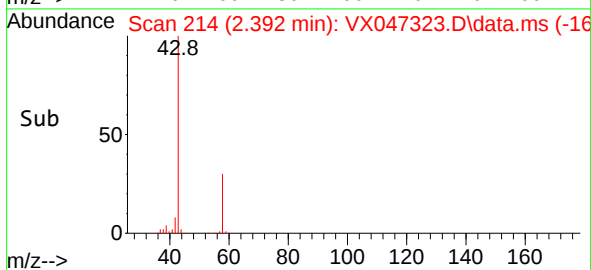
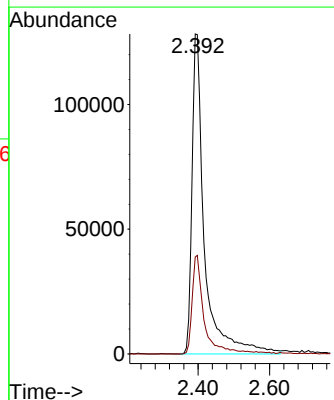
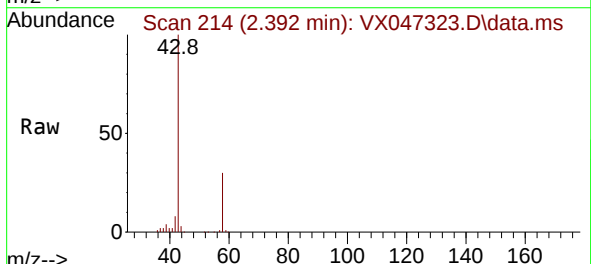
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-13

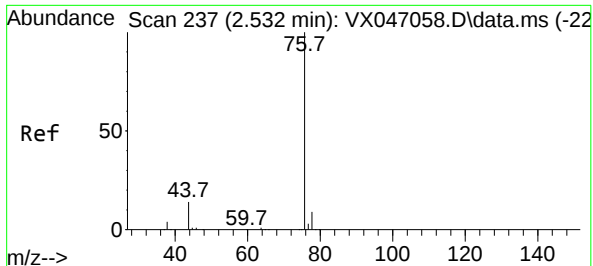
Tgt Ion: 41 Resp: 1824
 Ion Ratio Lower Upper
 41 100
 39 47.8 52.6 78.8#
 76 0.0 25.7 38.5#



#16
 Acetone
 Concen: 273.085 ug/l
 RT: 2.392 min Scan# 214
 Delta R.T. 0.006 min
 Lab File: VX047323.D
 Acq: 13 Aug 2025 15:29

Tgt Ion: 43 Resp: 309784
 Ion Ratio Lower Upper
 43 100
 58 30.3 24.0 36.0





#17

Carbon Disulfide

Concen: 1.455 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047323.D

Acq: 13 Aug 2025 15:29

Instrument :

MSVOA_X

ClientSampleId :

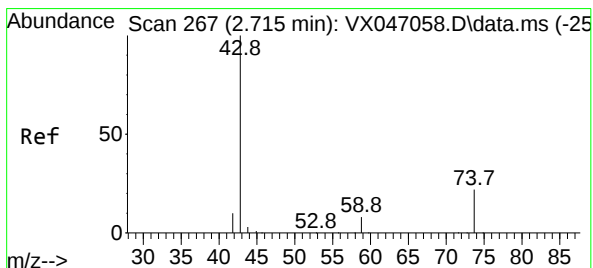
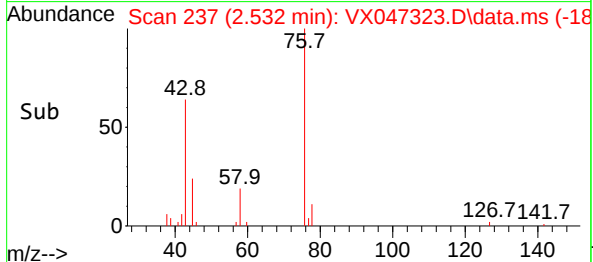
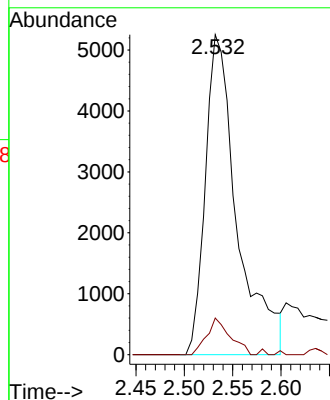
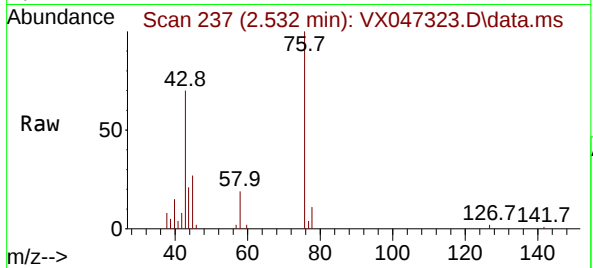
TW-WTS-13

Tgt Ion: 76 Resp: 12021

Ion Ratio Lower Upper

76 100

78 11.4 7.0 10.4#



#18

Methyl Acetate

Concen: 0.566 ug/l

RT: 2.709 min Scan# 266

Delta R.T. -0.006 min

Lab File: VX047323.D

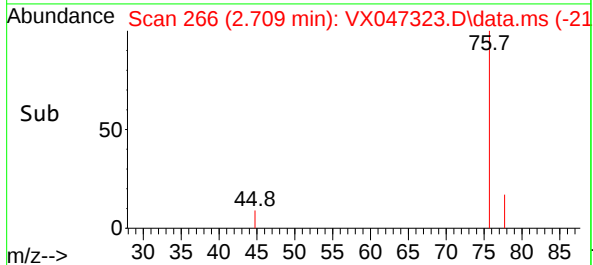
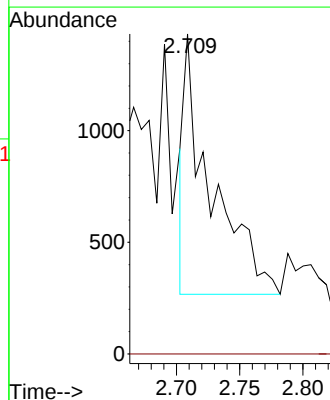
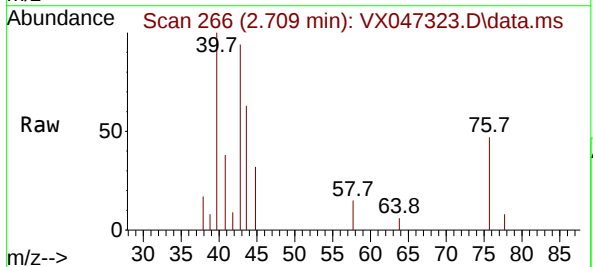
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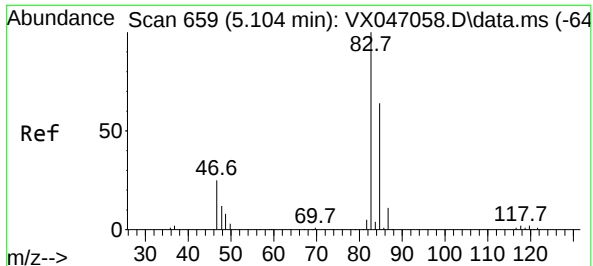
Tgt Ion: 43 Resp: 1706

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#





#30

Chloroform

Concen: 0.749 ug/l

RT: 5.117 min Scan# 61

Delta R.T. 0.013 min

Lab File: VX047323.D

Acq: 13 Aug 2025 15:29

Instrument :

MSVOA_X

ClientSampleId :

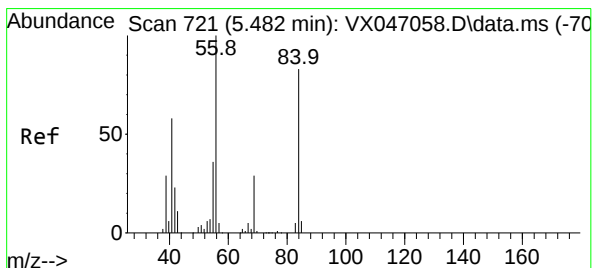
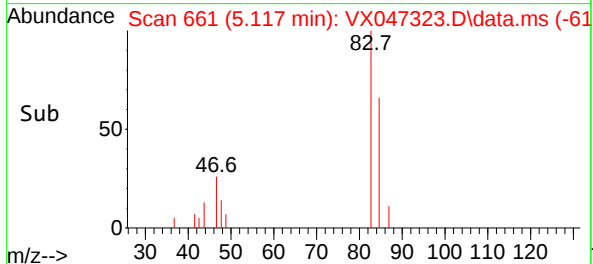
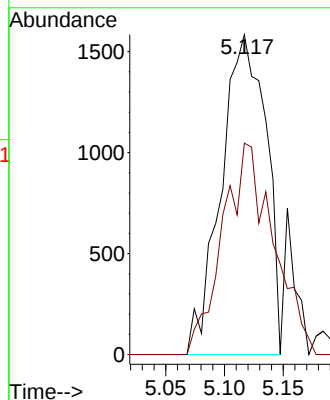
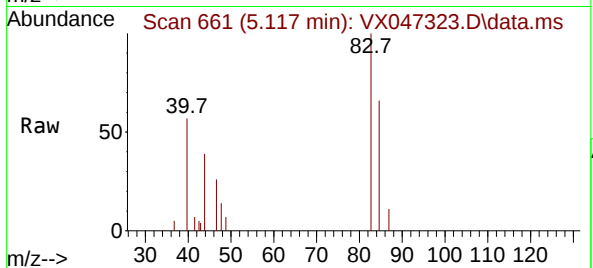
TW-WTS-13

Tgt Ion: 83 Resp: 4210

Ion Ratio Lower Upper

83 100

85 66.1 50.9 76.3



#31

Cyclohexane

Concen: 0.996 ug/l

RT: 5.568 min Scan# 735

Delta R.T. 0.086 min

Lab File: VX047323.D

Acq: 13 Aug 2025 15:29

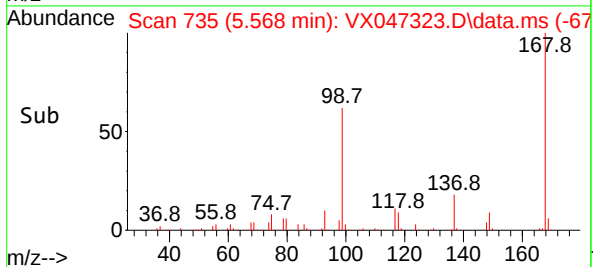
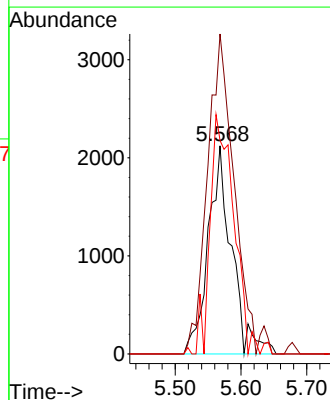
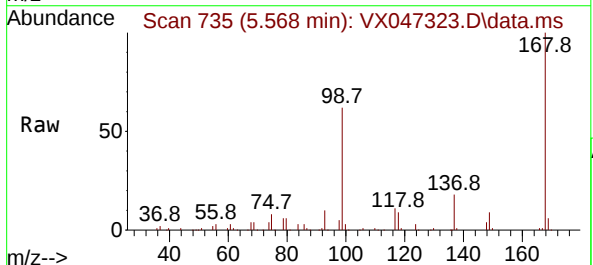
Tgt Ion: 56 Resp: 5272

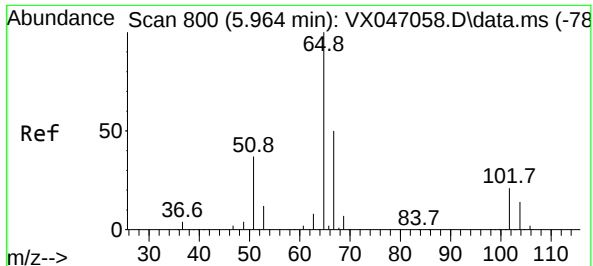
Ion Ratio Lower Upper

56 100

69 157.3 23.3 34.9#

84 102.5 66.5 99.7#

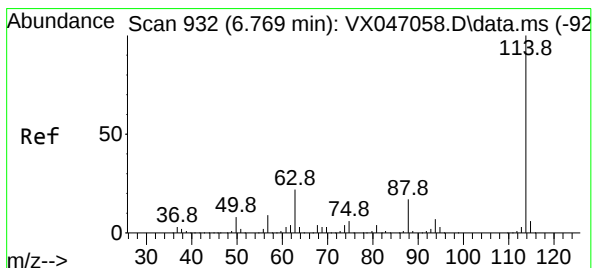
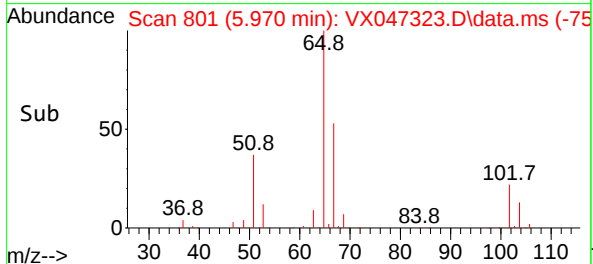
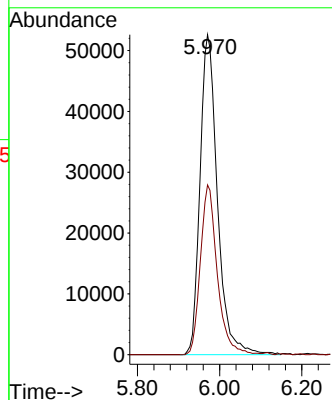
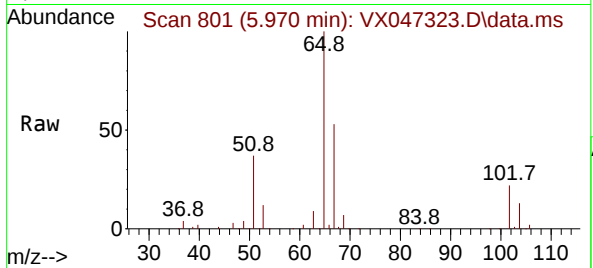




#33
 1,2-Dichloroethane-d4
 Concen: 54.631 ug/l
 RT: 5.970 min Scan# 801
 Delta R.T. 0.006 min
 Lab File: VX047323.D
 Acq: 13 Aug 2025 15:29

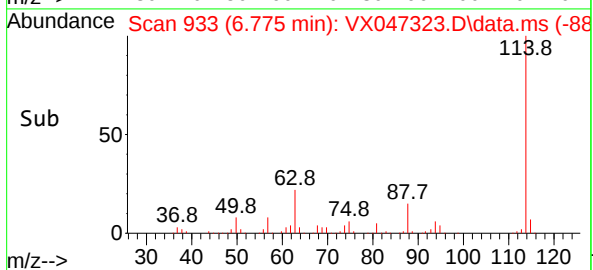
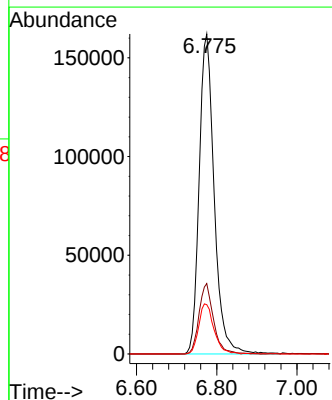
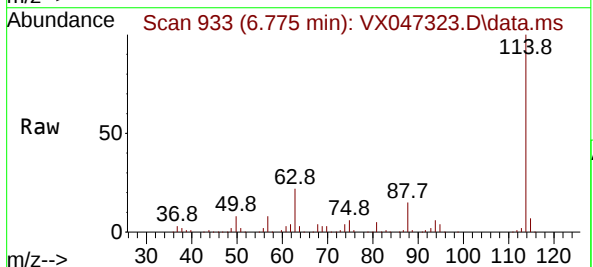
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-13

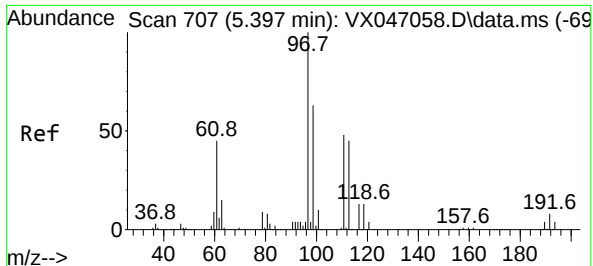
Tgt Ion: 65 Resp: 154699
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.775 min Scan# 933
 Delta R.T. 0.006 min
 Lab File: VX047323.D
 Acq: 13 Aug 2025 15:29

Tgt Ion: 114 Resp: 419762
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.2
 88 15.4 0.0 33.8





#35

Dibromofluoromethane

Concen: 0.053 ug/l

RT: 5.416 min Scan# 710

Delta R.T. 0.019 min

Lab File: VX047323.D

Acq: 13 Aug 2025 15:29

Instrument :

MSVOA_X

ClientSampleId :

TW-WTS-13

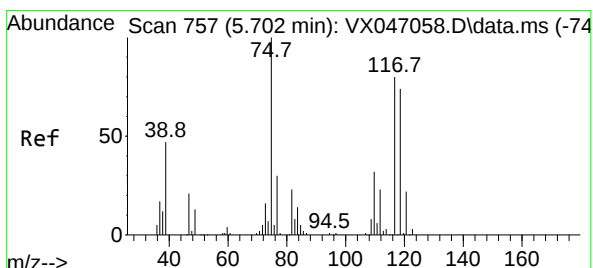
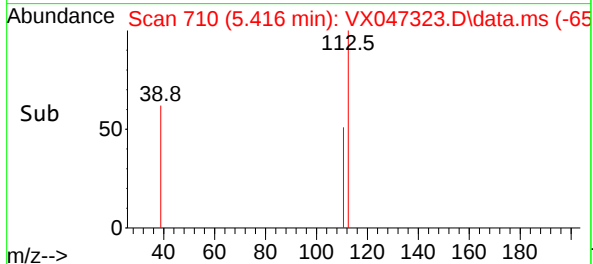
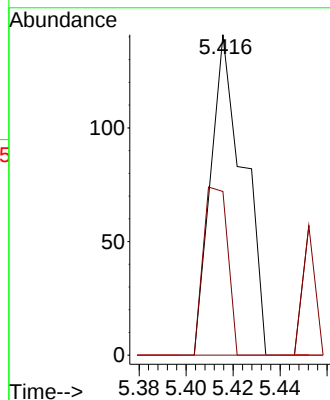
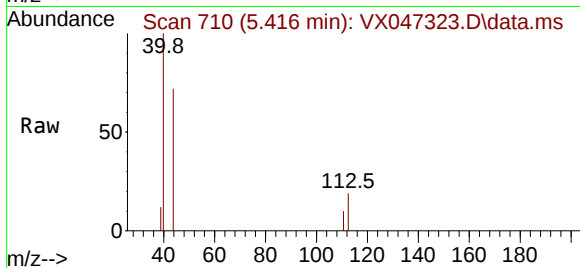
Tgt Ion:113 Resp: 137

Ion Ratio Lower Upper

113 100

111 38.7 82.6 124.0#

192 0.0 14.9 22.3#



#36

1,1-Dichloropropene

Concen: 4.253 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.140 min

Lab File: VX047323.D

Acq: 13 Aug 2025 15:29

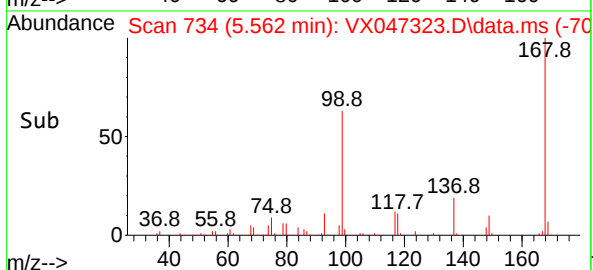
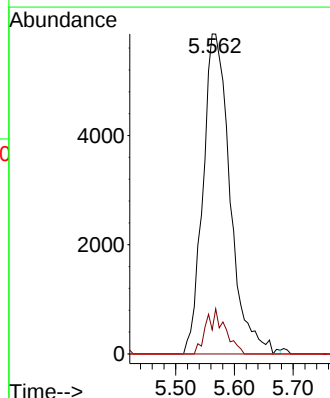
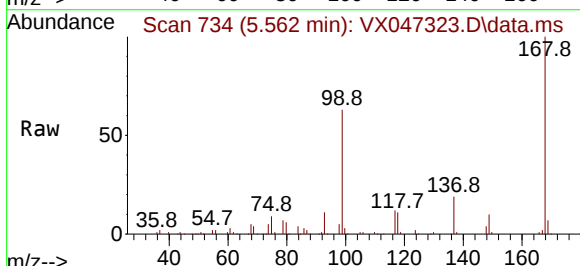
Tgt Ion: 75 Resp: 18789

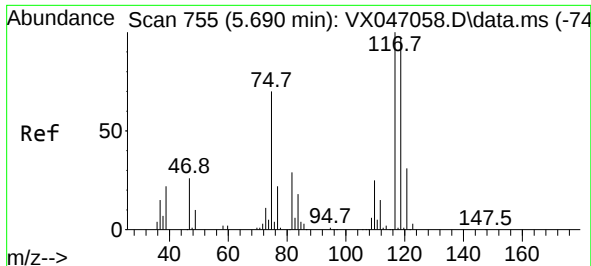
Ion Ratio Lower Upper

75 100

110 3.9 17.2 51.5#

77 0.0 25.1 37.7#

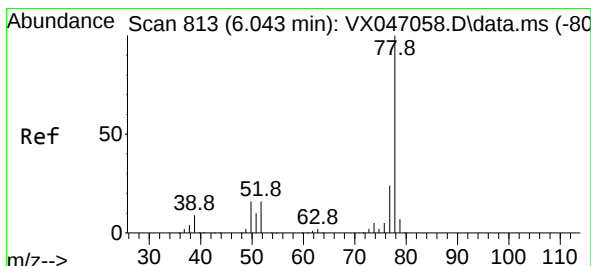
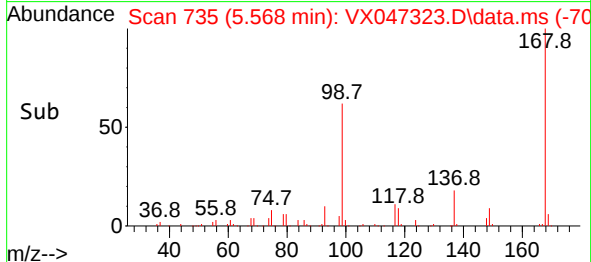
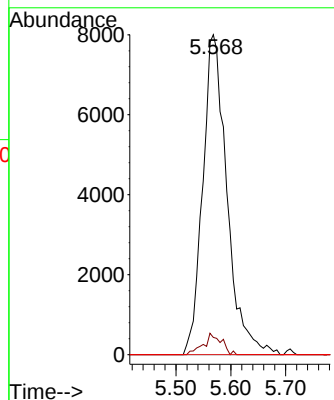
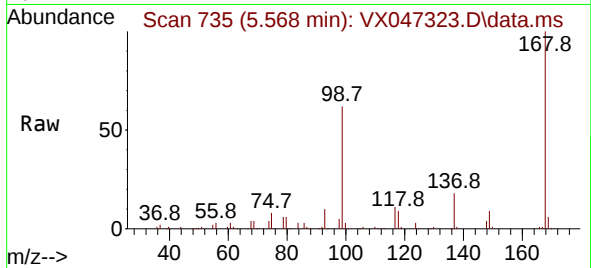




#38
Carbon Tetrachloride
Concen: 5.219 ug/l
RT: 5.568 min Scan# 711
Delta R.T. -0.122 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

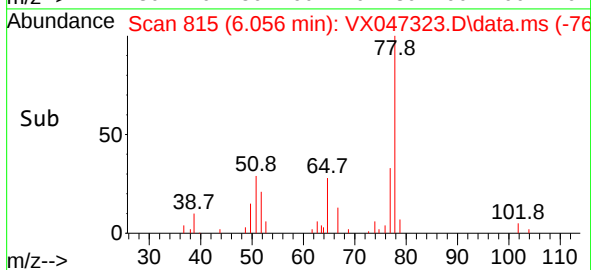
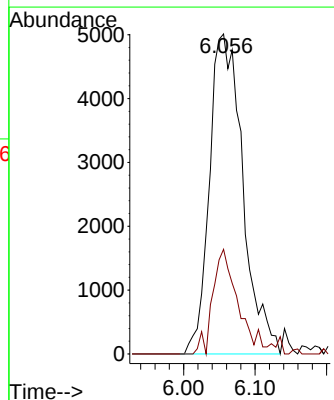
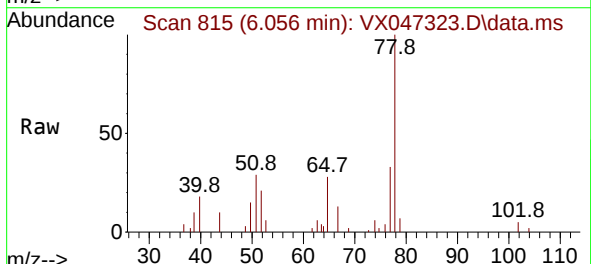
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

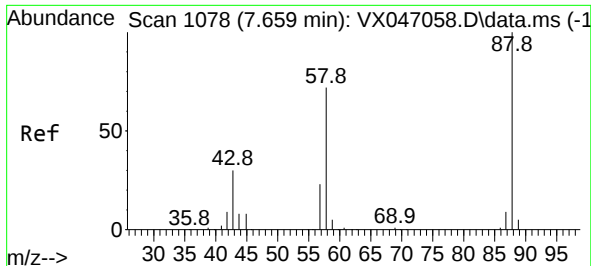
Tgt Ion:117 Resp: 24611
Ion Ratio Lower Upper
117 100
119 5.4 76.6 115.0#
121 0.0 24.4 36.6#



#40
Benzene
Concen: 1.266 ug/l
RT: 6.056 min Scan# 815
Delta R.T. 0.013 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

Tgt Ion: 78 Resp: 16186
Ion Ratio Lower Upper
78 100
77 32.7 19.0 28.4#



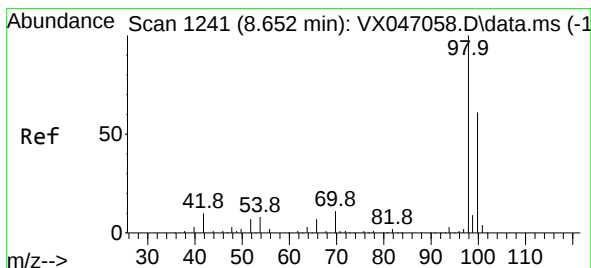
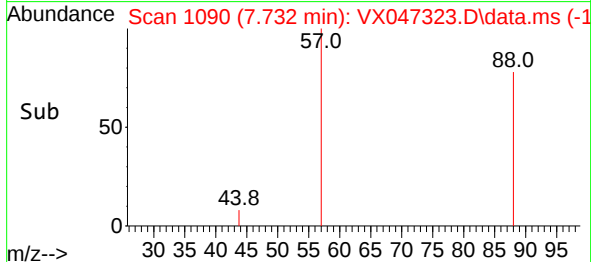
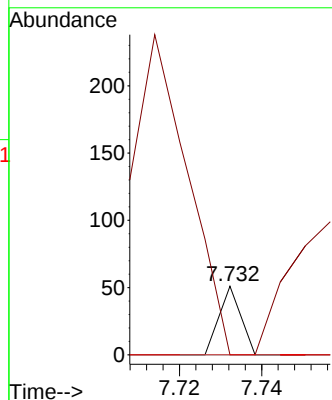
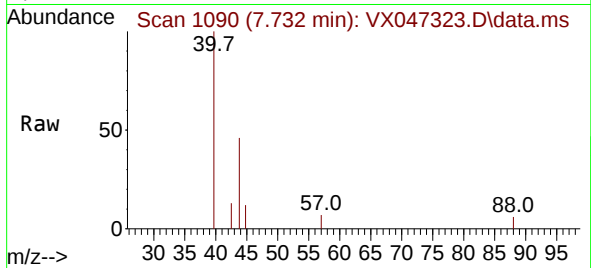


#49
 1,4-Dioxane
 Concen: 0.483 ug/l
 RT: 7.732 min Scan# 1090
 Delta R.T. 0.074 min
 Lab File: VX047323.D
 Acq: 13 Aug 2025 15:29

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-13

Tgt Ion: 88 Resp: 19

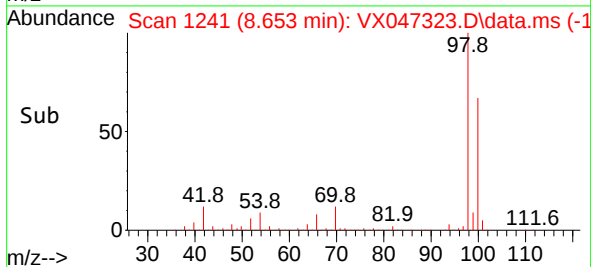
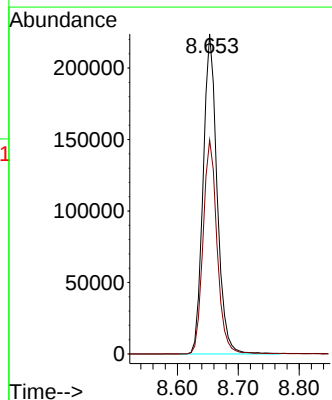
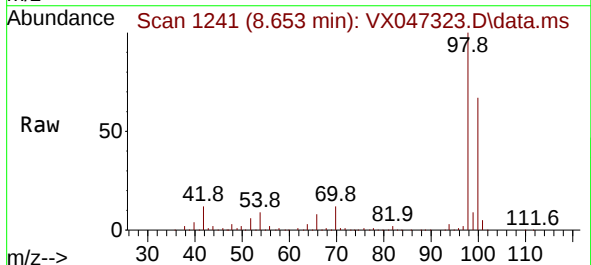
Ion	Ratio	Lower	Upper
88	100		
43	1536.8	33.6	50.4#
58	0.0	58.8	88.2#

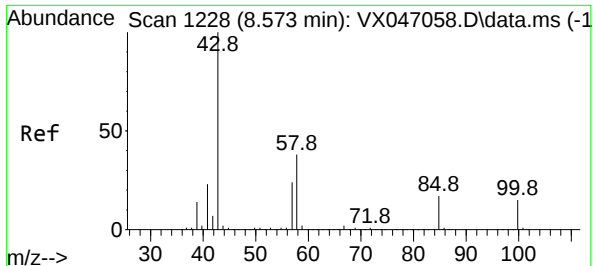


#50
 Toluene-d8
 Concen: 42.588 ug/l
 RT: 8.653 min Scan# 1241
 Delta R.T. 0.000 min
 Lab File: VX047323.D
 Acq: 13 Aug 2025 15:29

Tgt Ion: 98 Resp: 357451

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.3	79.9

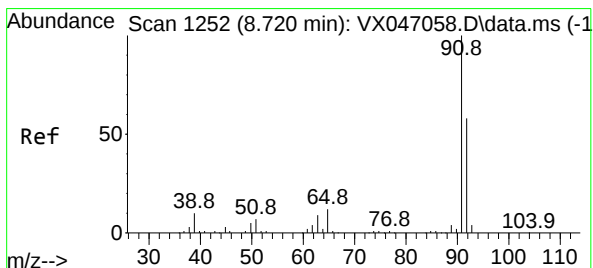
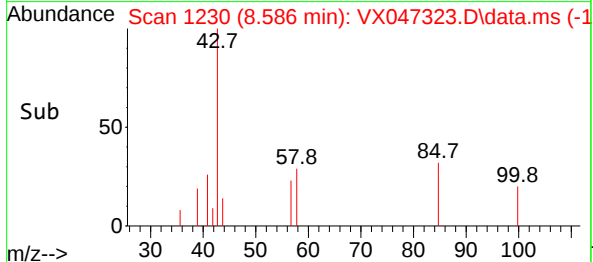
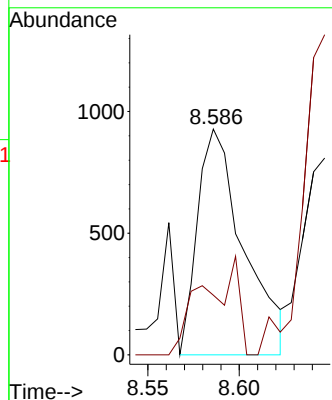
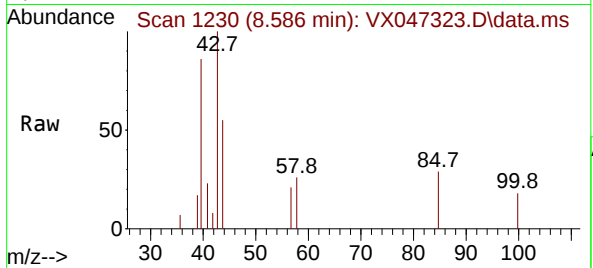




#51
4-Methyl-2-Pentanone
Concen: 0.432 ug/l
RT: 8.586 min Scan# 11
Delta R.T. 0.013 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

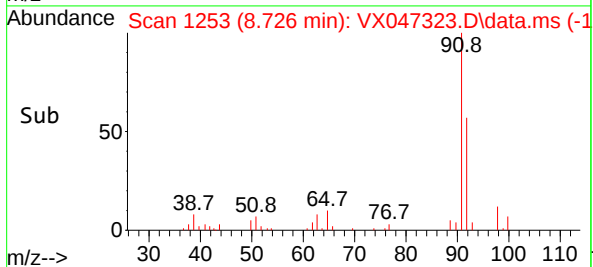
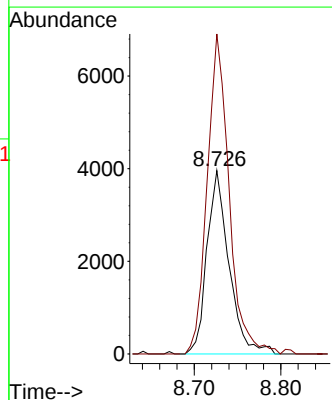
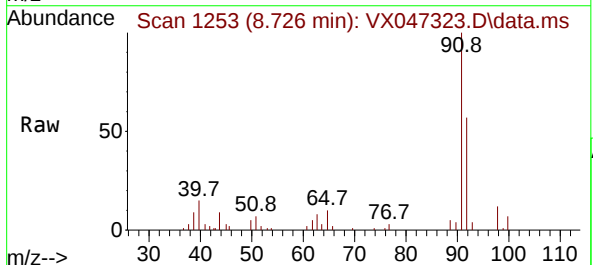
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

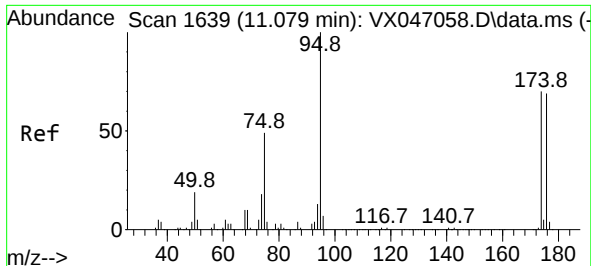
Tgt Ion: 43 Resp: 1628
Ion Ratio Lower Upper
43 100
58 33.0 30.6 45.8



#52
Toluene
Concen: 0.891 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

Tgt Ion: 92 Resp: 7007
Ion Ratio Lower Upper
92 100
91 173.2 137.9 206.9





#62

4-Bromofluorobenzene

Concen: 48.879 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047323.D

Acq: 13 Aug 2025 15:29

Instrument :

MSVOA_X

ClientSampleId :

TW-WTS-13

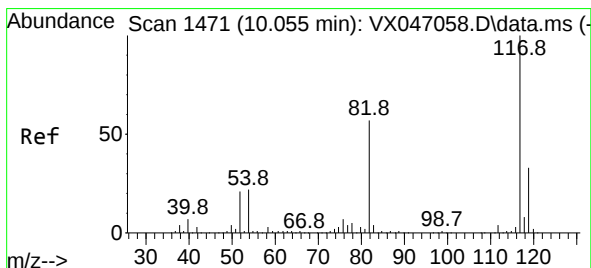
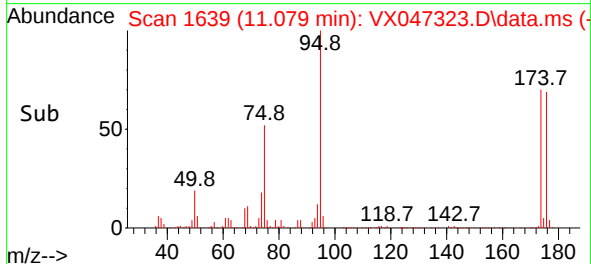
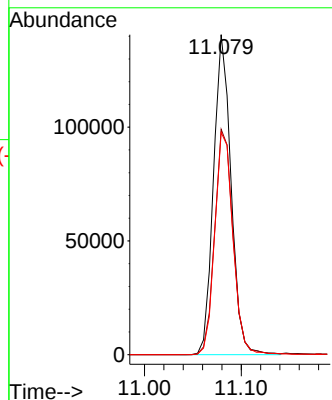
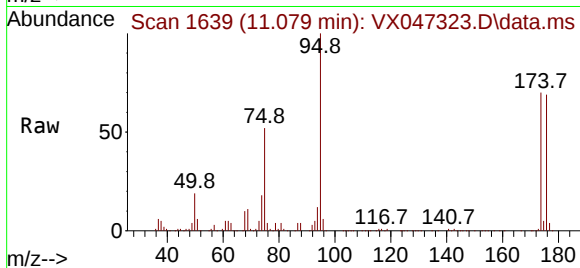
Tgt Ion: 95 Resp: 176799

Ion Ratio Lower Upper

95 100

174 73.9 0.0 144.6

176 72.2 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: VX047323.D

Acq: 13 Aug 2025 15:29

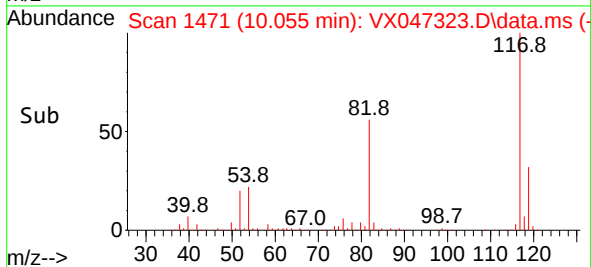
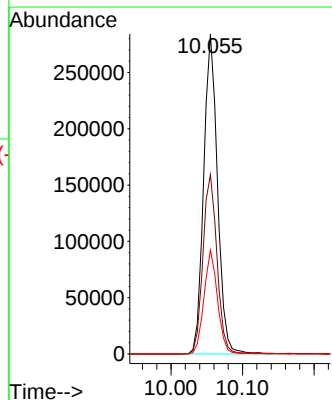
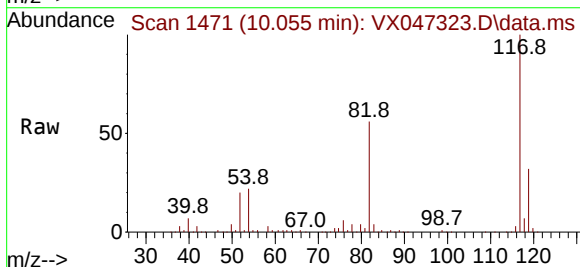
Tgt Ion: 117 Resp: 382728

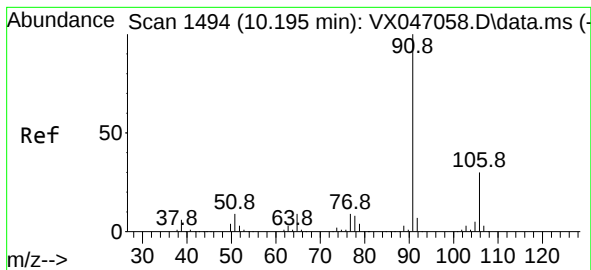
Ion Ratio Lower Upper

117 100

82 56.1 45.4 68.2

119 32.5 26.1 39.1





#67

Ethyl Benzene

Concen: 0.952 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX047323.D

Acq: 13 Aug 2025 15:29

Instrument :

MSVOA_X

ClientSampleId :

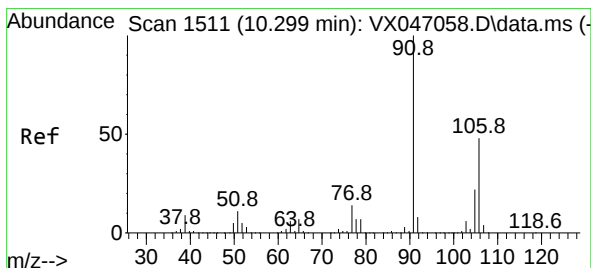
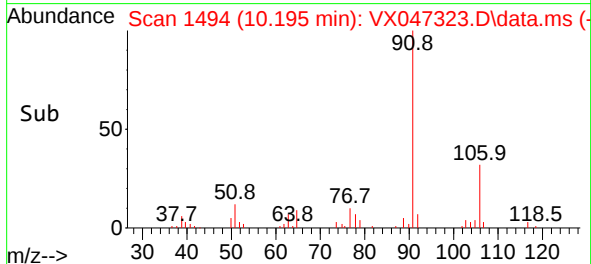
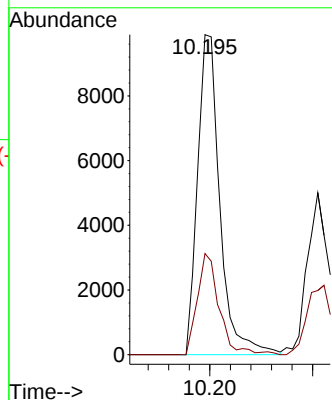
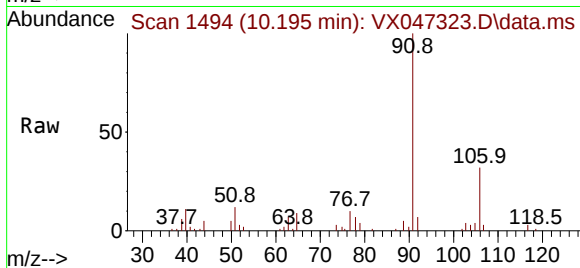
TW-WTS-13

Tgt Ion: 91 Resp: 14919

Ion Ratio Lower Upper

91 100

106 34.8 24.2 36.4



#68

m/p-Xylenes

Concen: 0.652 ug/l

RT: 10.311 min Scan# 1513

Delta R.T. 0.013 min

Lab File: VX047323.D

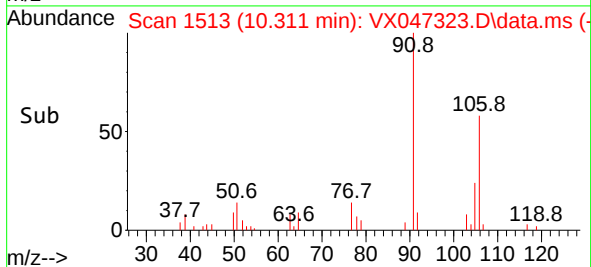
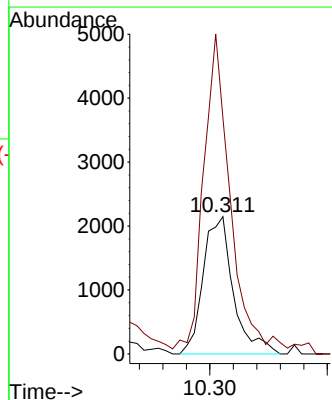
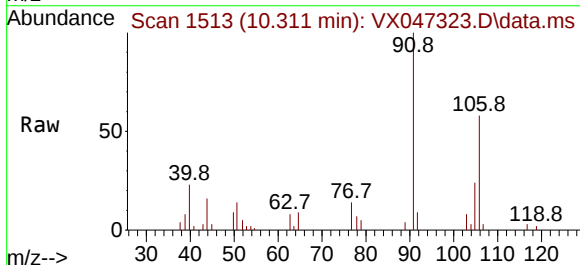
Acq: 13 Aug 2025 15:29

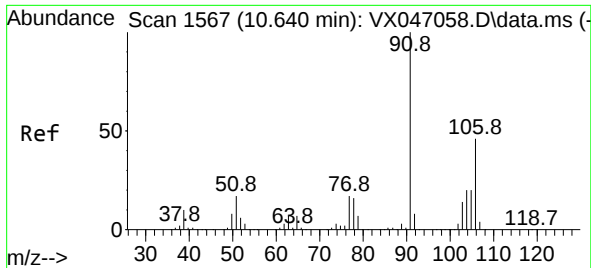
Tgt Ion:106 Resp: 3826

Ion Ratio Lower Upper

106 100

91 199.1 167.4 251.0

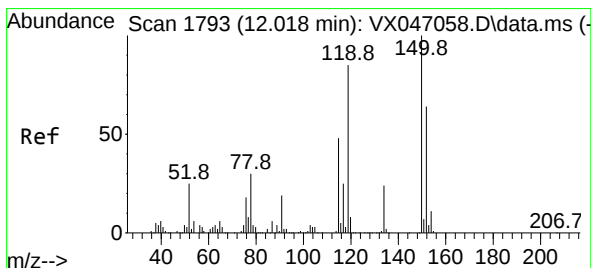
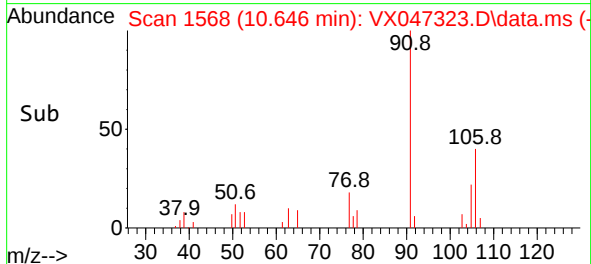
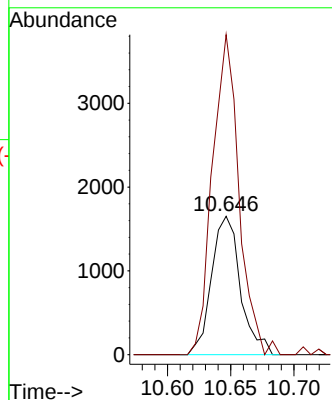
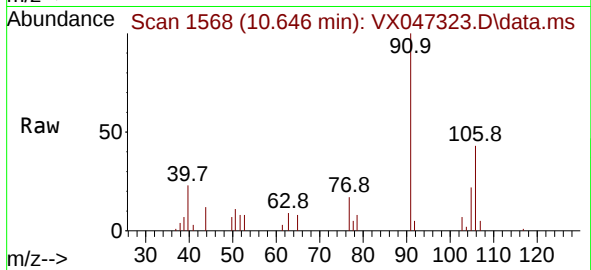




#69
o-Xylene
Concen: 0.470 ug/l
RT: 10.646 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

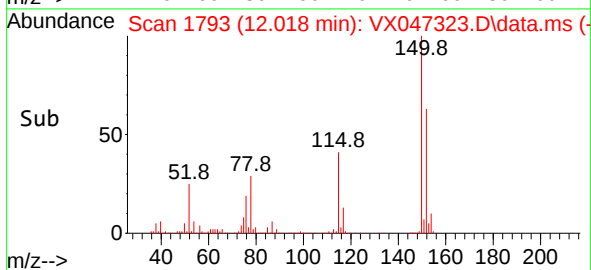
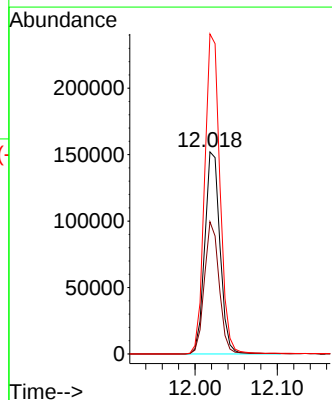
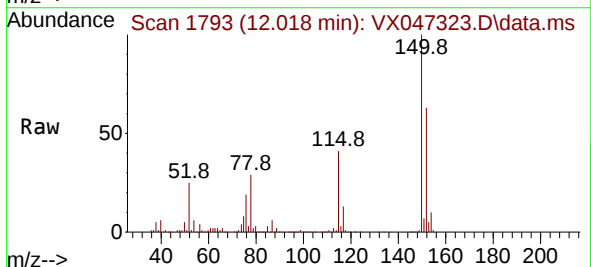
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

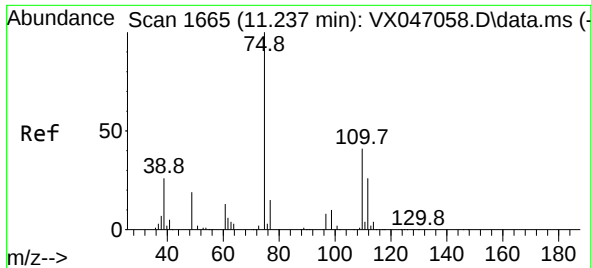
Tgt Ion:106 Resp: 2624
Ion Ratio Lower Upper
106 100
91 212.0 110.3 331.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

Tgt Ion:152 Resp: 196082
Ion Ratio Lower Upper
152 100
115 63.2 45.6 136.7
150 159.8 0.0 354.6

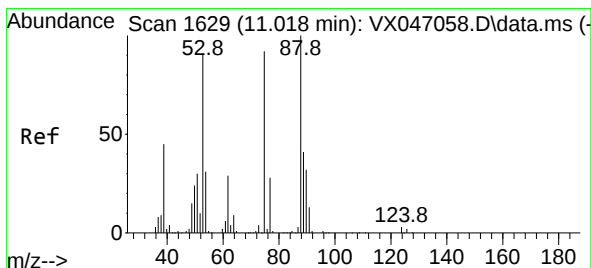
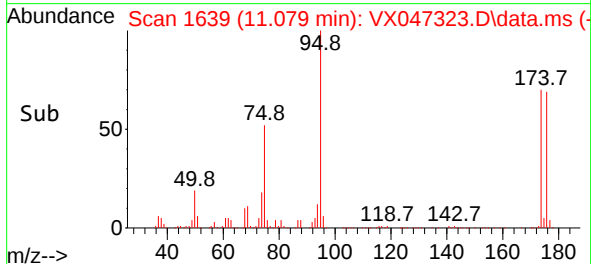
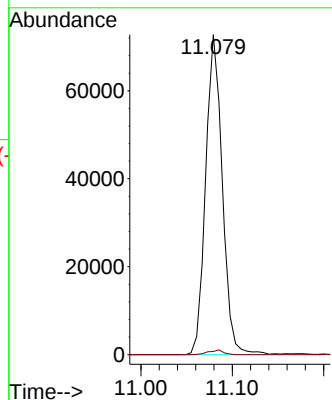
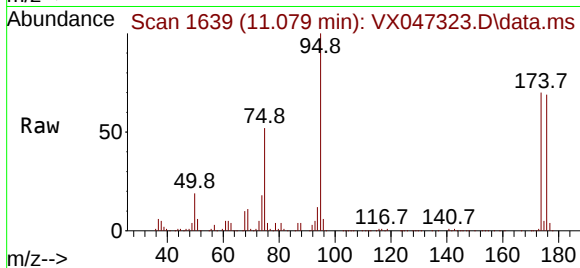




#76
1,2,3-Trichloropropane
Concen: 25.327 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

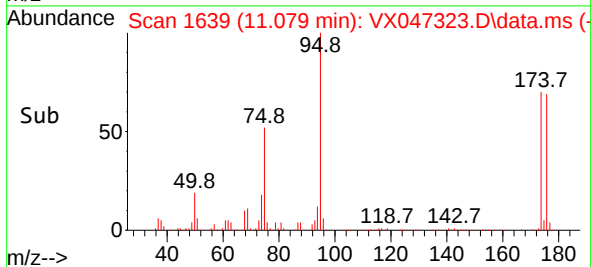
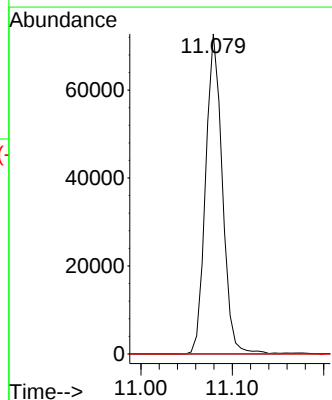
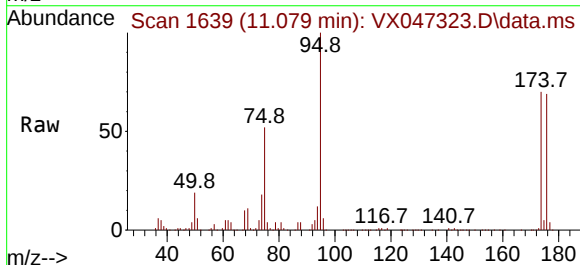
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

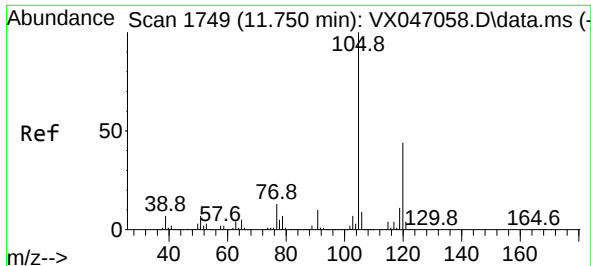
Tgt Ion: 75 Resp: 91920
Ion Ratio Lower Upper
75 100
77 1.3 21.6 65.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.251 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

Tgt Ion: 75 Resp: 91920
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#

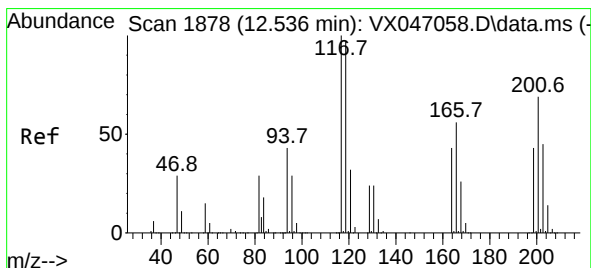
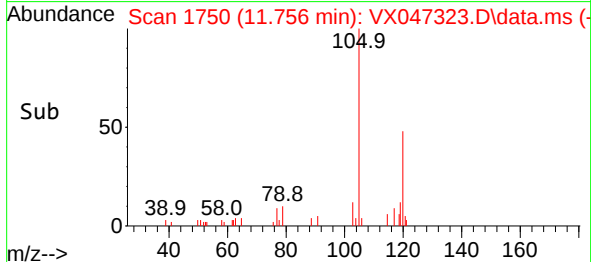
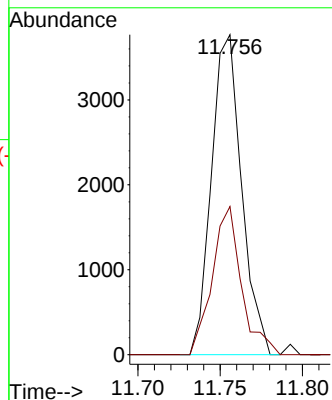
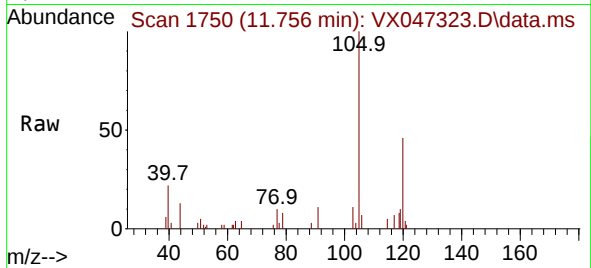




#84
1,2,4-Trimethylbenzene
Concen: 0.377 ug/l
RT: 11.756 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

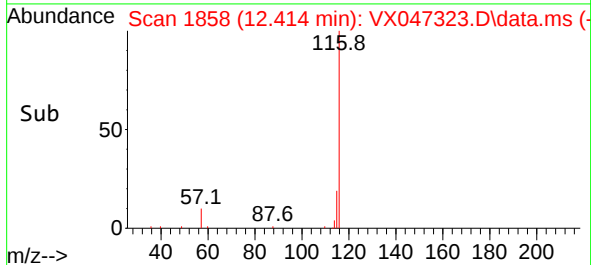
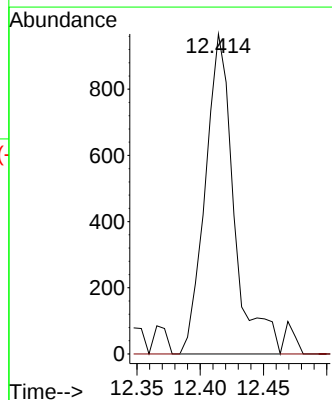
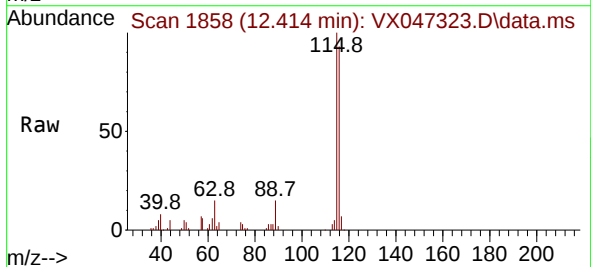
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

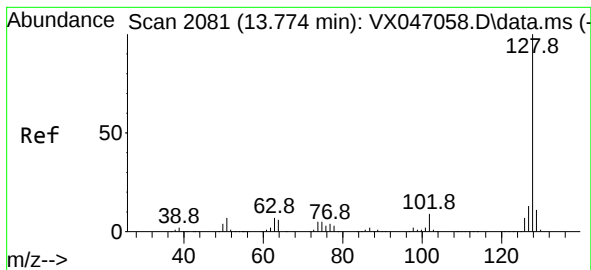
Tgt Ion:105 Resp: 4803
Ion Ratio Lower Upper
105 100
120 44.8 22.0 66.0



#90
Hexachloroethane
Concen: 0.643 ug/l
RT: 12.414 min Scan# 1858
Delta R.T. -0.122 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

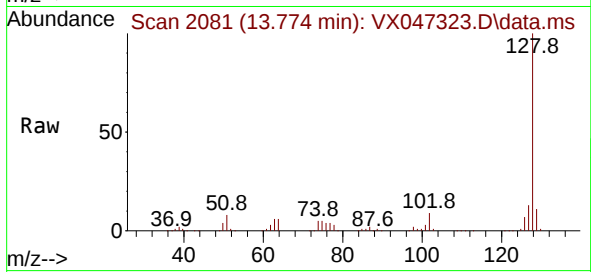
Tgt Ion:117 Resp: 1529
Ion Ratio Lower Upper
117 100
201 0.0 34.8 104.5#





#95
Naphthalene
Concen: 20.177 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX047323.D
Acq: 13 Aug 2025 15:29

Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13



Tgt Ion:128 Resp: 263338
Ion Ratio Lower Upper
128 100
127 12.7 10.1 15.1
129 11.1 8.6 13.0

