

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081525\
 Data File : VX047368.D
 Acq On : 15 Aug 2025 17:19
 Operator : JC/MD
 Sample : Q2837-01RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-13

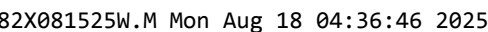
Quant Time: Aug 18 04:36:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

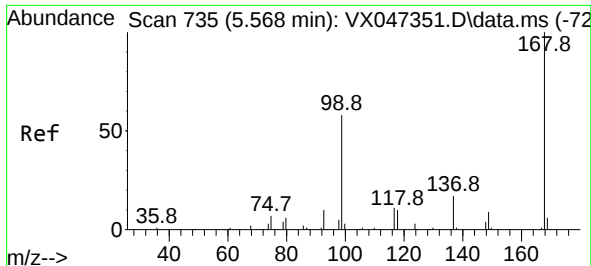
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.568	168	327465	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	657401	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	647442	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	331594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	267268	58.318	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 116.640%			
35) Dibromofluoromethane	5.403	113	188578	44.199	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 88.400%			
50) Toluene-d8	8.653	98	805553	52.823	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 105.640%			
62) 4-Bromofluorobenzene	11.079	95	333173	59.204	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 118.400%			
Target Compounds					Qvalue	
5) Bromomethane	1.636	94	484	0.254	ug/l #	63
10) Methyl Iodide	2.477	142	2805	0.405	ug/l #	86
11) Tert butyl alcohol	2.965	59	8438	21.164	ug/l #	83
13) Acrolein	2.258	56	233	0.277	ug/l	88
16) Acetone	2.392	43	303393	176.120	ug/l	99
17) Carbon Disulfide	2.532	76	6900	0.555	ug/l #	80
18) Methyl Acetate	2.965	43	1076	0.241	ug/l #	53
25) 2-Butanone	4.605	43	6803	3.015	ug/l #	88
29) Tetrahydrofuran	5.062	42	383	0.263	ug/l #	52
30) Chloroform	5.105	83	4504	0.552	ug/l #	83
31) Cyclohexane	5.556	56	7859	1.066	ug/l #	30
36) 1,1-Dichloropropene	5.568	75	28253	4.195	ug/l #	51
38) Carbon Tetrachloride	5.568	117	34492	4.686	ug/l #	15
40) Benzene	6.050	78	16286	0.808	ug/l	91
49) 1,4-Dioxane	7.702	88	80	1.578	ug/l #	8
51) 4-Methyl-2-Pentanone	8.586	43	1653	0.286	ug/l #	79
52) Toluene	8.726	92	7597	0.610	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.415	63	37	8.366	ug/l #	46
67) Ethyl Benzene	10.195	91	16082	0.607	ug/l	96
68) m/p-Xylenes	10.305	106	3840	0.389	ug/l	92
69) o-Xylene	10.640	106	2598	0.273	ug/l	92
76) 1,2,3-Trichloropropane	11.079	75	174992	28.773	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	174992	113.263	ug/l #	7
84) 1,2,4-Trimethylbenzene	11.750	105	4996	0.234	ug/l	94
90) Hexachloroethane	12.414	117	1832	0.467	ug/l #	15
95) Naphthalene	13.774	128	233494	10.607	ug/l	99

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

Quant Time: Aug 18 04:36:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
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QLast Update : Mon Aug 18 04:18:28 2025
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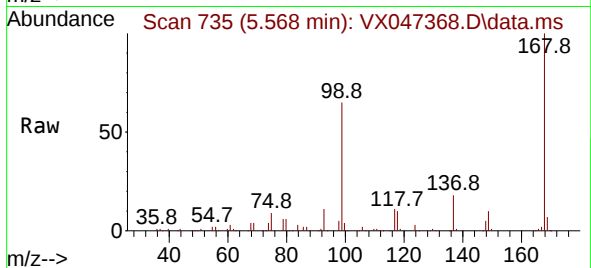
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Instrument :

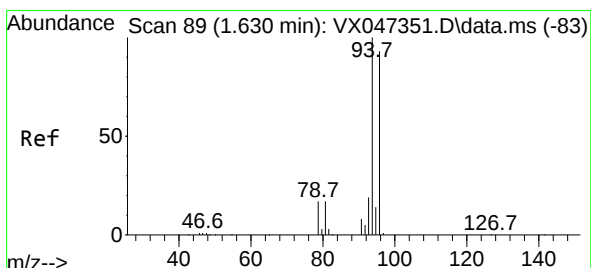
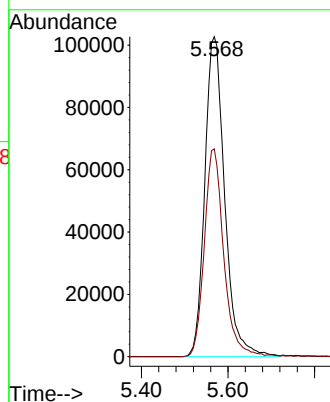
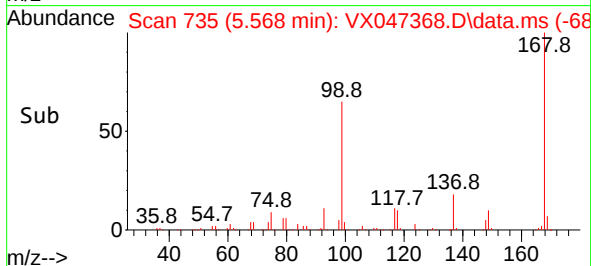
MSVOA_X

ClientSampleId :

TW-WTS-13

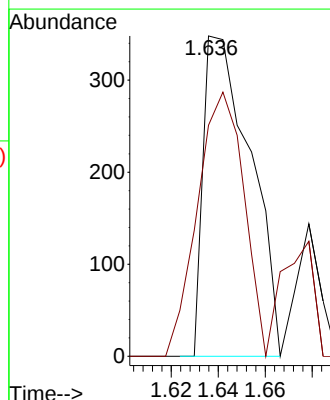
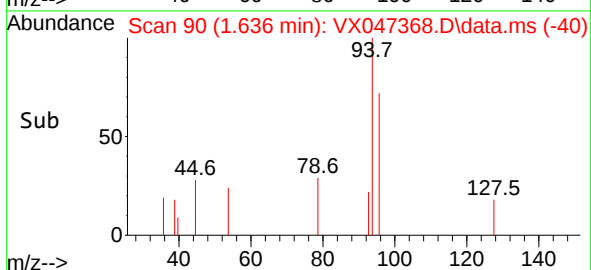
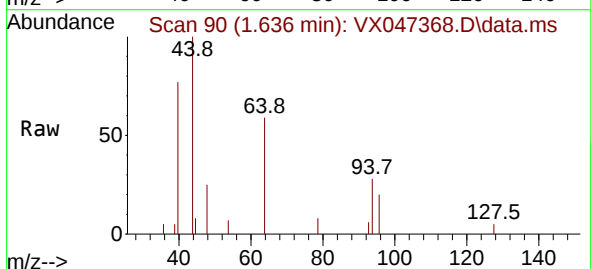


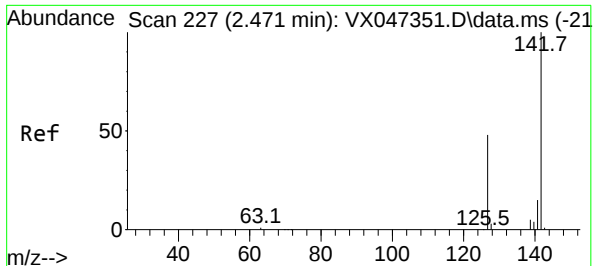
Tgt Ion:168 Resp: 327465
Ion Ratio Lower Upper
168 100
99 64.9 47.9 71.9



#5
Bromomethane
Concen: 0.254 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.006 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion: 94 Resp: 484
Ion Ratio Lower Upper
94 100
96 57.8 74.7 112.1#

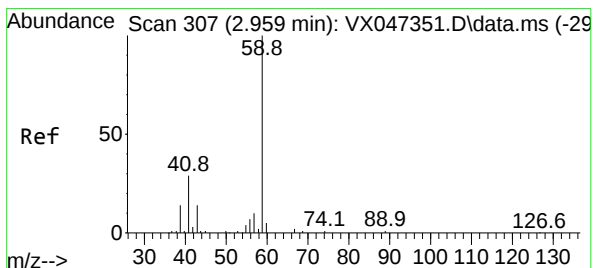
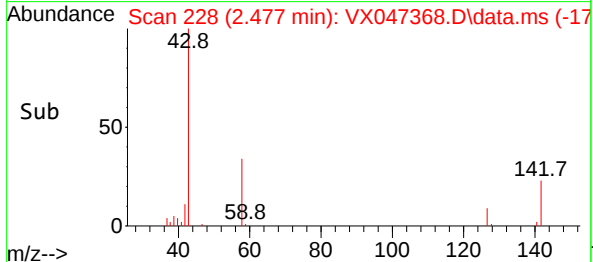
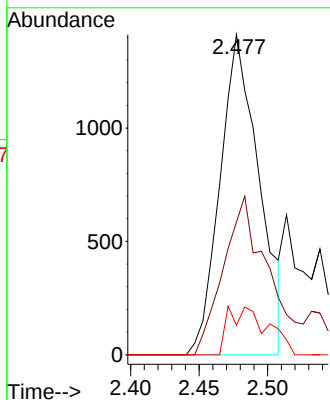
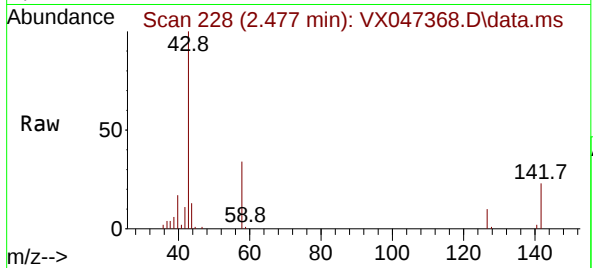




#10
Methyl Iodide
Concen: 0.405 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

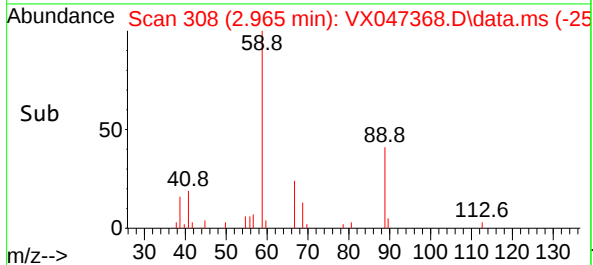
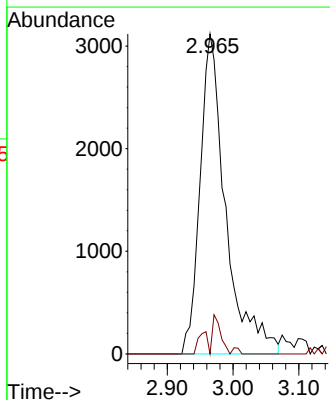
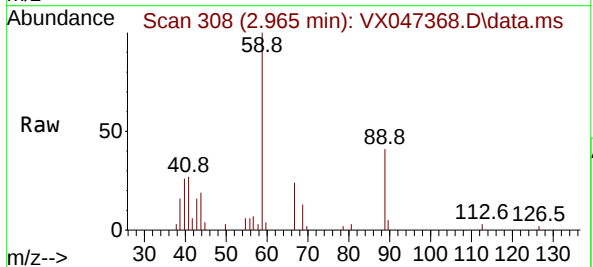
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

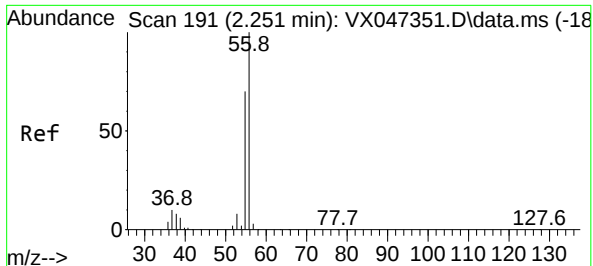
Tgt Ion:142 Resp: 2805
Ion Ratio Lower Upper
142 100
127 56.9 36.1 54.1#
141 15.1 11.1 16.7



#11
Tert butyl alcohol
Concen: 21.164 ug/l
RT: 2.965 min Scan# 308
Delta R.T. 0.006 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion: 59 Resp: 8438
Ion Ratio Lower Upper
59 100
57 3.9 8.3 12.5#

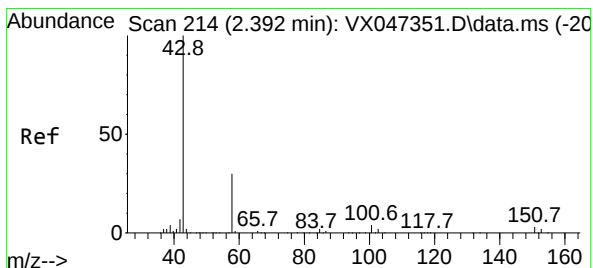
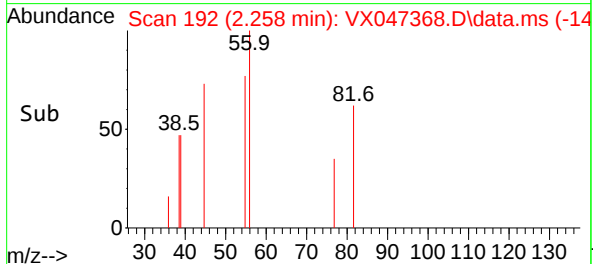
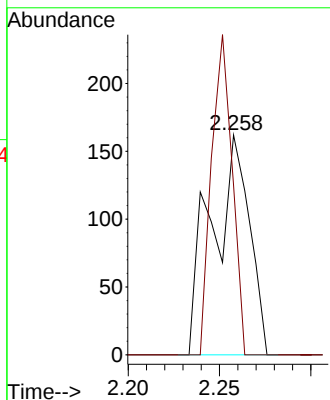
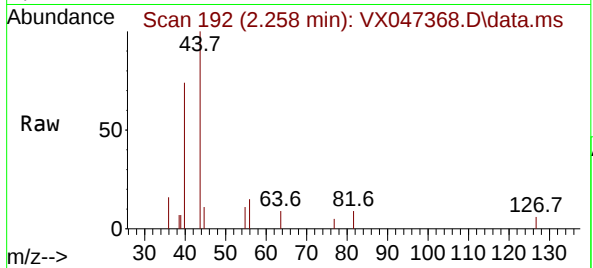




#13
Acrolein
Concen: 0.277 ug/l
RT: 2.258 min Scan# 191
Delta R.T. 0.006 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

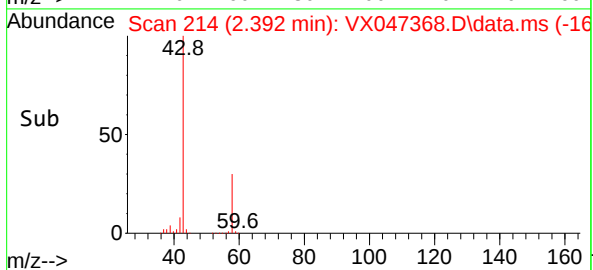
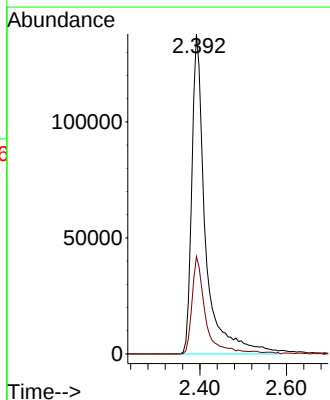
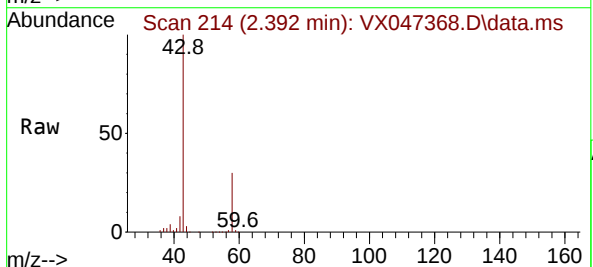
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

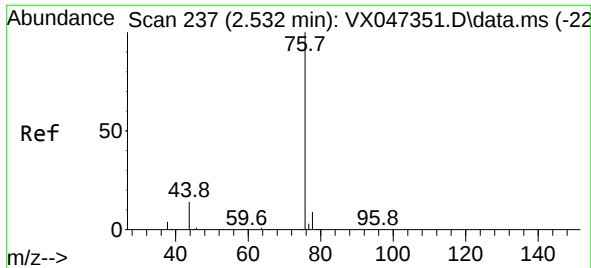
Tgt Ion: 56 Resp: 233
Ion Ratio Lower Upper
56 100
55 79.4 55.5 83.3



#16
Acetone
Concen: 176.120 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion: 43 Resp: 303393
Ion Ratio Lower Upper
43 100
58 30.6 24.8 37.2

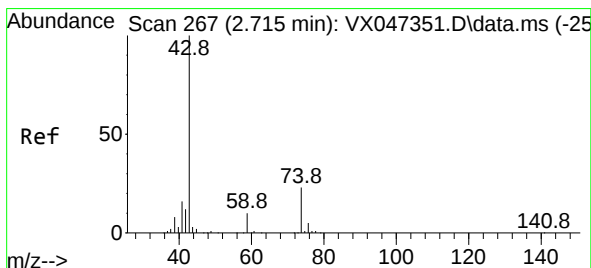
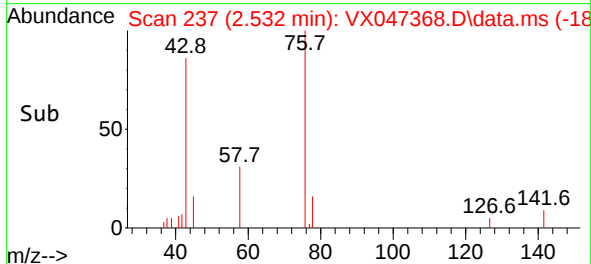
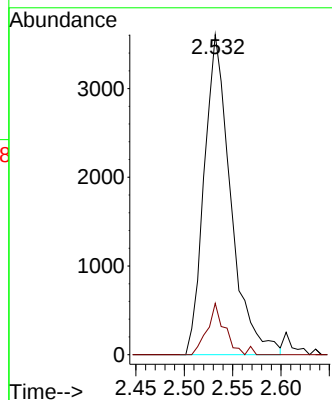
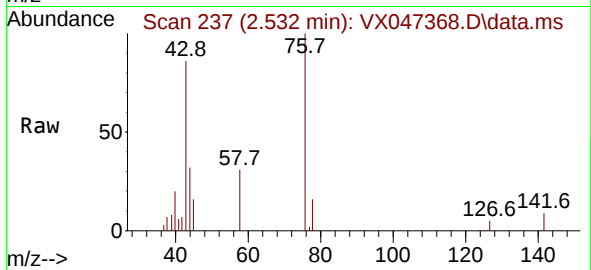




#17
Carbon Disulfide
Concen: 0.555 ug/l
RT: 2.532 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

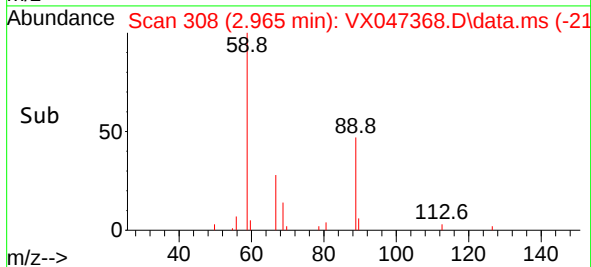
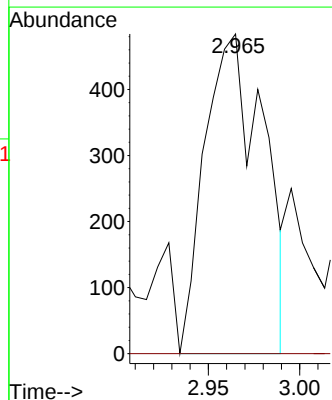
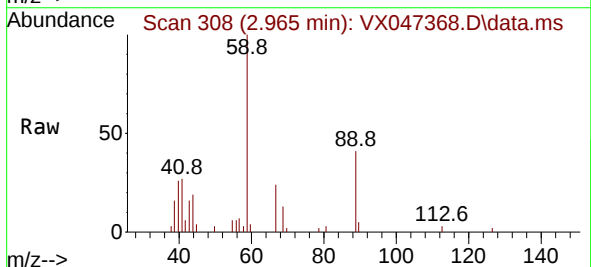
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ClientSampleId :
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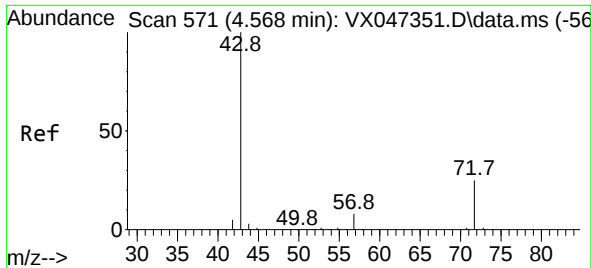
Tgt Ion: 76 Resp: 6900
Ion Ratio Lower Upper
76 100
78 16.1 7.2 10.8#



#18
Methyl Acetate
Concen: 0.241 ug/l
RT: 2.965 min Scan# 308
Delta R.T. 0.250 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion: 43 Resp: 1076
Ion Ratio Lower Upper
43 100
74 0.0 18.4 27.6#

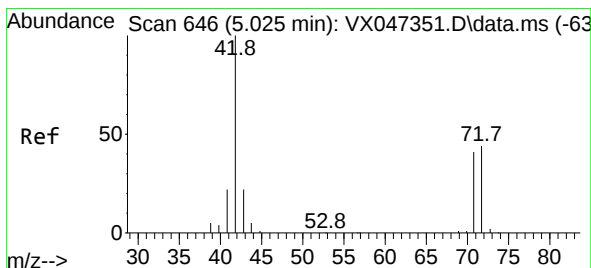
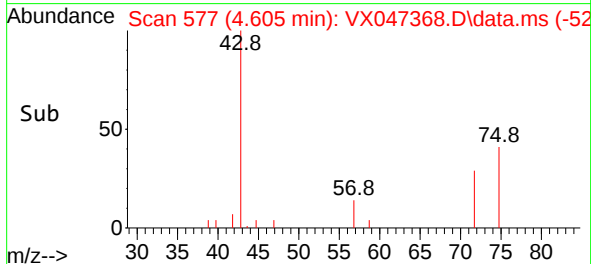
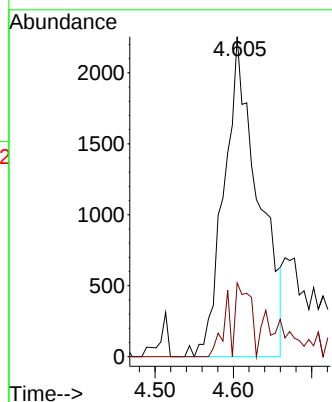
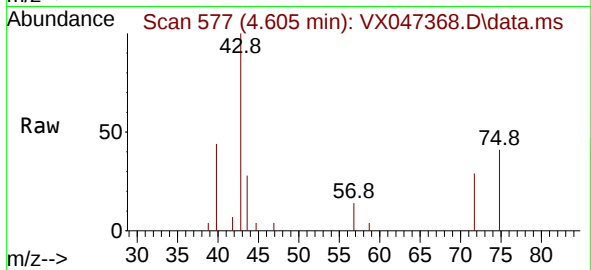




#25
2-Butanone
Concen: 3.015 ug/l
RT: 4.605 min Scan# 51
Delta R.T. 0.037 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

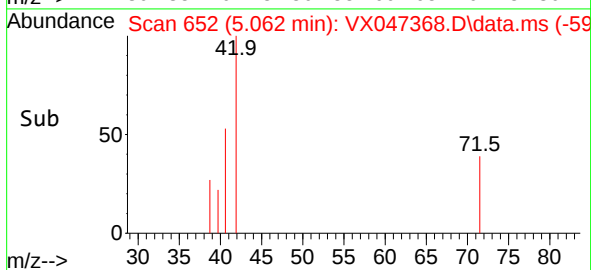
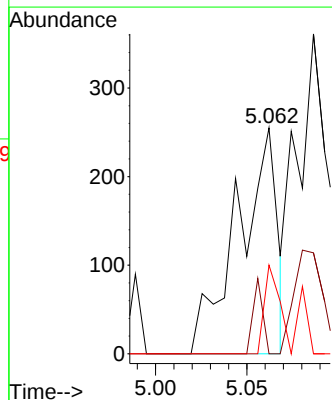
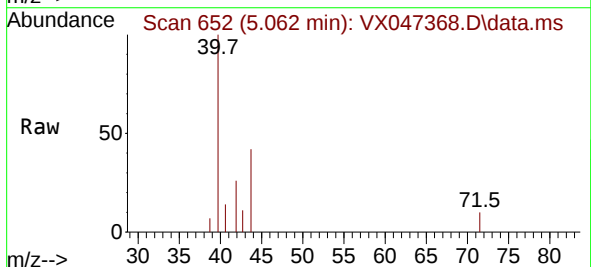
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ClientSampleId :
TW-WTS-13

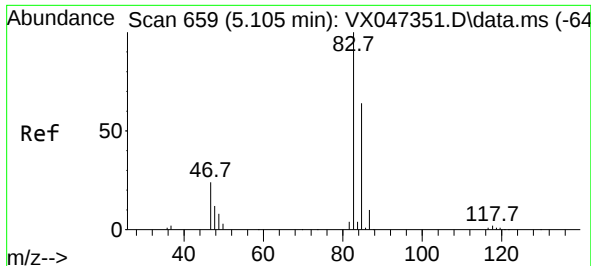
Tgt Ion: 43 Resp: 6803
Ion Ratio Lower Upper
43 100
72 30.6 19.8 29.8#



#29
Tetrahydrofuran
Concen: 0.263 ug/l
RT: 5.062 min Scan# 652
Delta R.T. 0.037 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion: 42 Resp: 383
Ion Ratio Lower Upper
42 100
72 8.1 34.6 51.8#
71 15.1 32.6 49.0#





#30

Chloroform

Concen: 0.552 ug/l

RT: 5.105 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX047368.D

Acq: 15 Aug 2025 17:19

Instrument :

MSVOA_X

ClientSampleId :

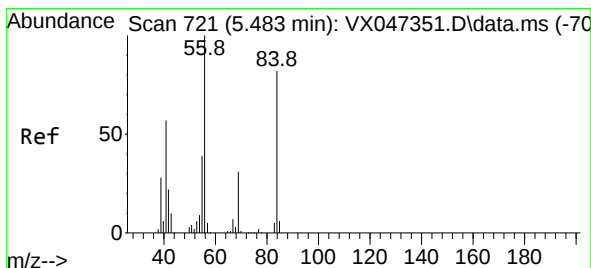
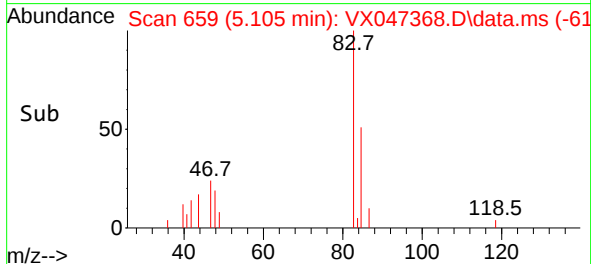
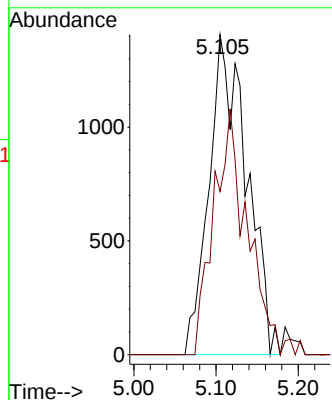
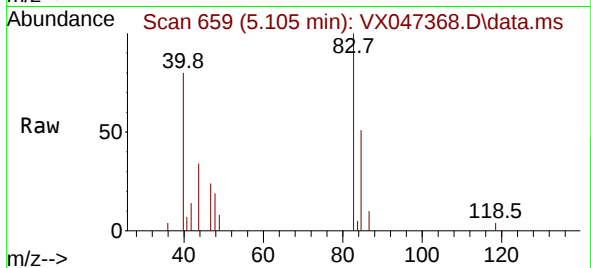
TW-WTS-13

Tgt Ion: 83 Resp: 4504

Ion Ratio Lower Upper

83 100

85 51.0 51.2 76.8#



#31

Cyclohexane

Concen: 1.066 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.073 min

Lab File: VX047368.D

Acq: 15 Aug 2025 17:19

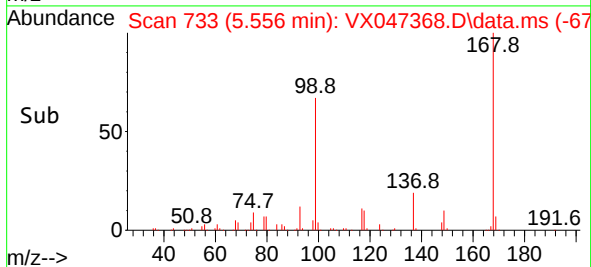
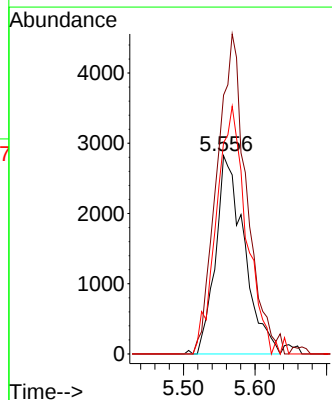
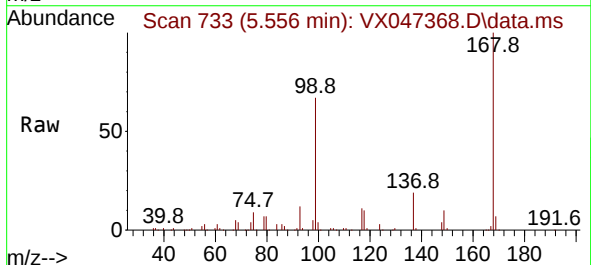
Tgt Ion: 56 Resp: 7859

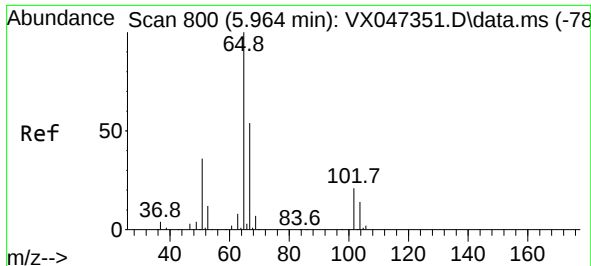
Ion Ratio Lower Upper

56 100

69 130.6 24.3 36.5#

84 106.6 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 58.318 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047368.D

Acq: 15 Aug 2025 17:19

Instrument :

MSVOA_X

ClientSampleId :

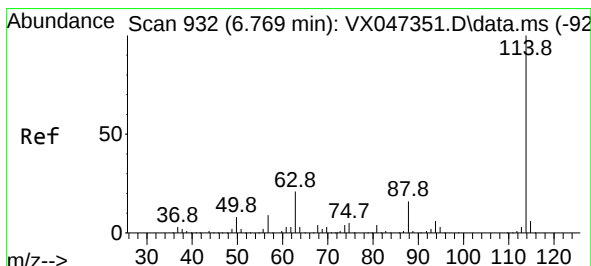
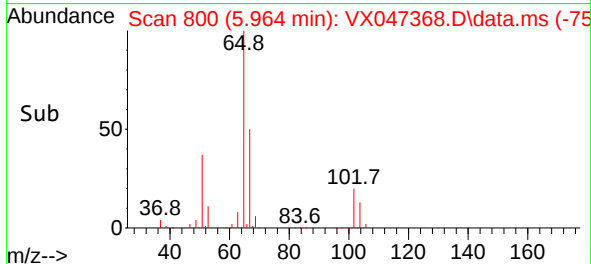
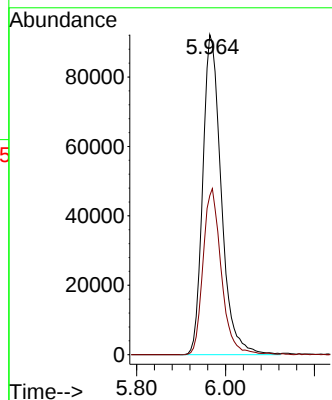
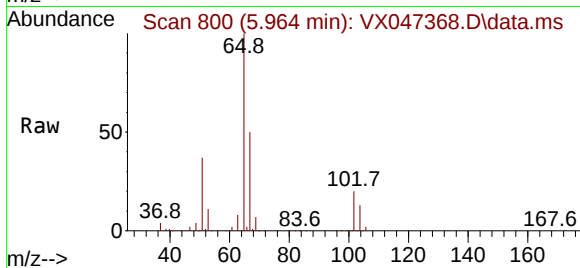
TW-WTS-13

Tgt Ion: 65 Resp: 267268

Ion Ratio Lower Upper

65 100

67 51.0 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047368.D

Acq: 15 Aug 2025 17:19

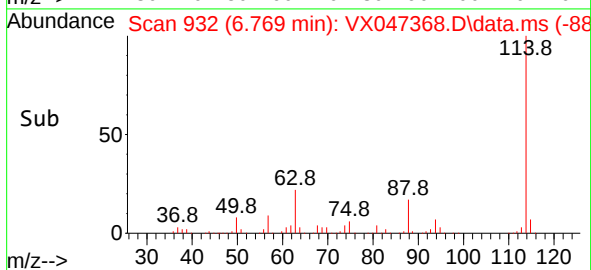
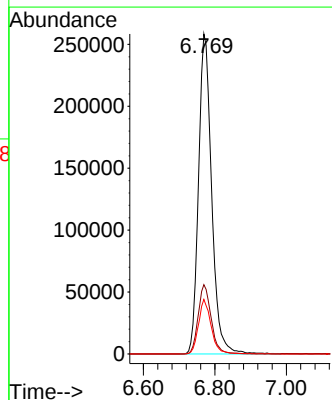
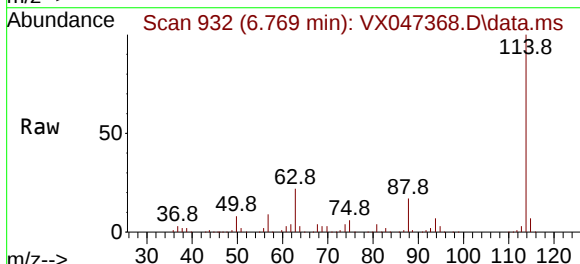
Tgt Ion: 114 Resp: 657401

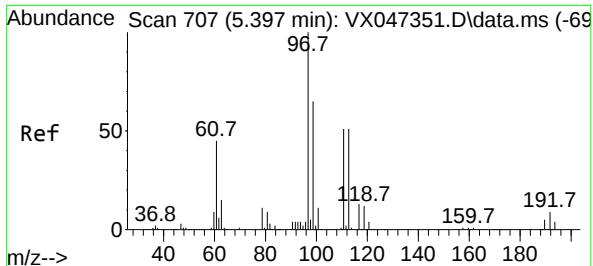
Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.4

88 17.0 0.0 33.0

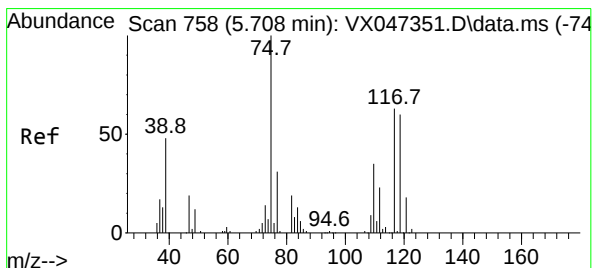
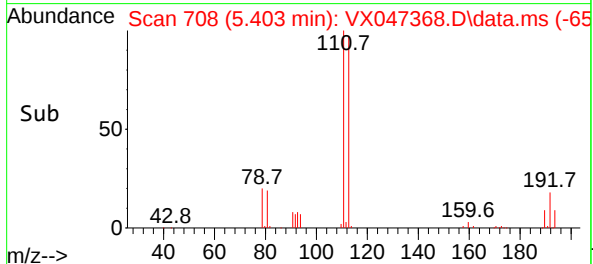
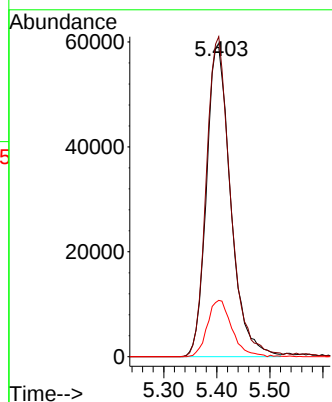
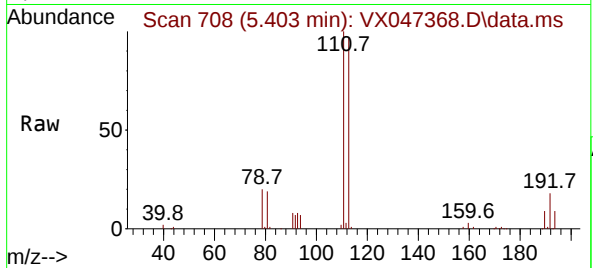




#35
Dibromofluoromethane
Concen: 44.199 ug/l
RT: 5.403 min Scan# 707
Delta R.T. 0.006 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

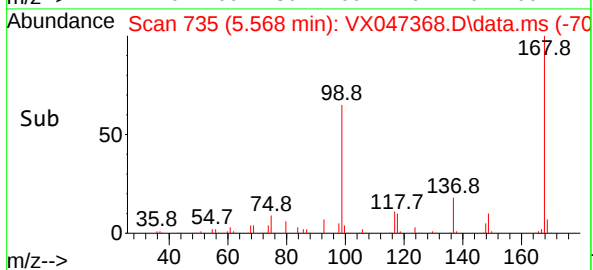
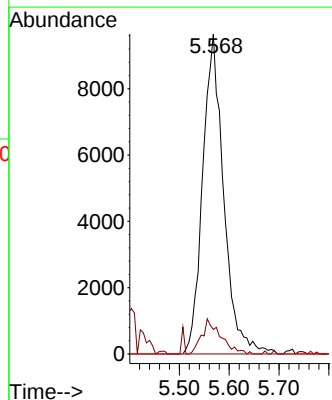
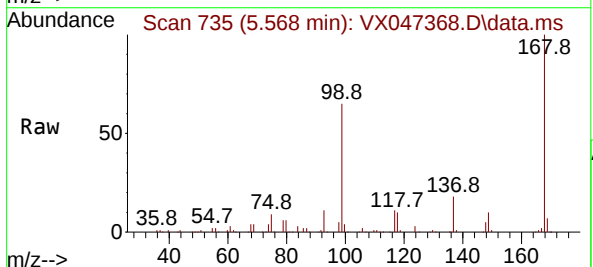
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

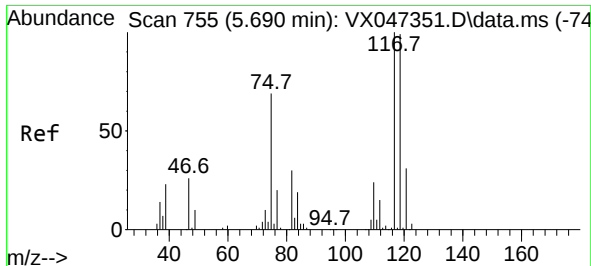
Tgt Ion:113 Resp: 188578
Ion Ratio Lower Upper
113 100
111 102.4 81.4 122.2
192 18.2 14.1 21.1



#36
1,1-Dichloropropene
Concen: 4.195 ug/l
RT: 5.568 min Scan# 735
Delta R.T. -0.140 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

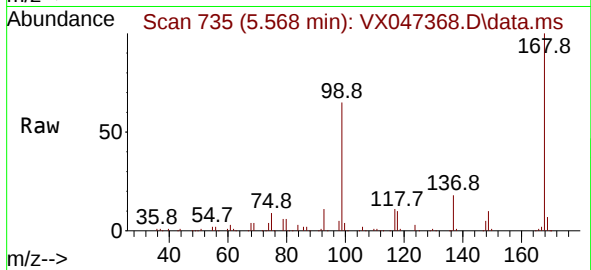
Tgt Ion: 75 Resp: 28253
Ion Ratio Lower Upper
75 100
110 9.9 17.4 52.2#
77 0.0 24.4 36.6#



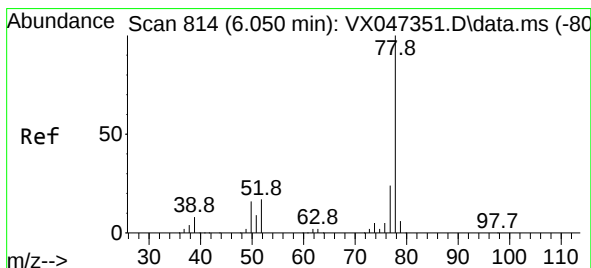
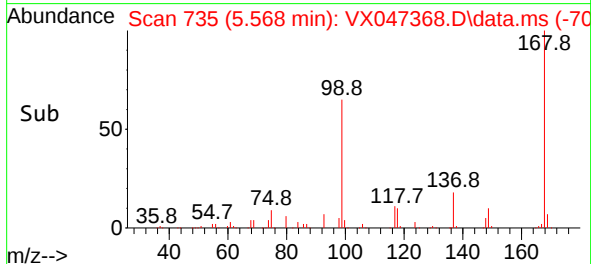
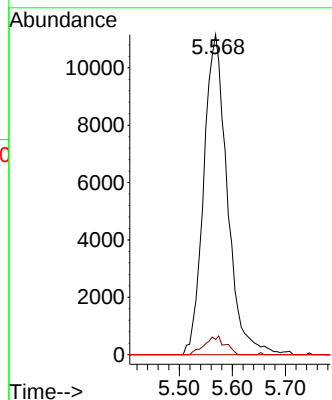


#38
Carbon Tetrachloride
Concen: 4.686 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

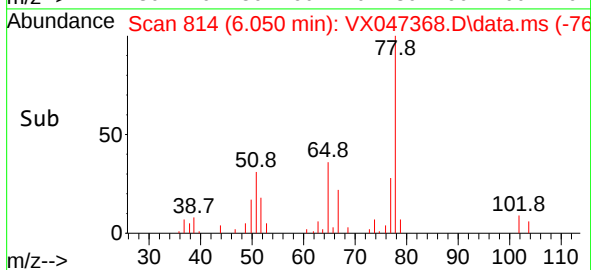
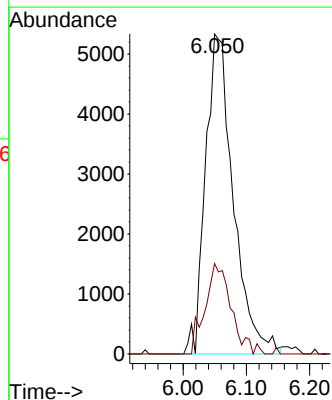
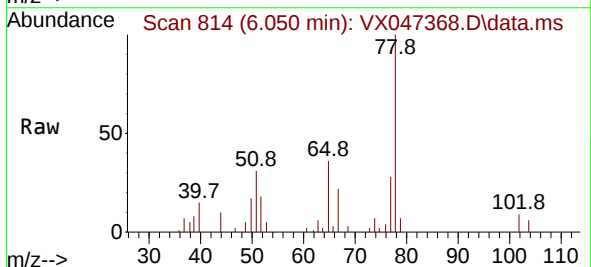


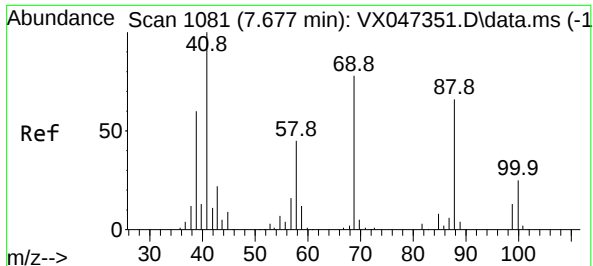
Tgt Ion:117 Resp: 34492
Ion Ratio Lower Upper
117 100
119 4.8 78.5 117.7#
121 0.0 24.7 37.1#



#40
Benzene
Concen: 0.808 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.000 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion: 78 Resp: 16286
Ion Ratio Lower Upper
78 100
77 28.2 19.0 28.4





#49

1,4-Dioxane

Concen: 1.578 ug/l

RT: 7.702 min Scan# 1085

Delta R.T. 0.025 min

Lab File: VX047368.D

Acq: 15 Aug 2025 17:19

Instrument :

MSVOA_X

ClientSampleId :

TW-WTS-13

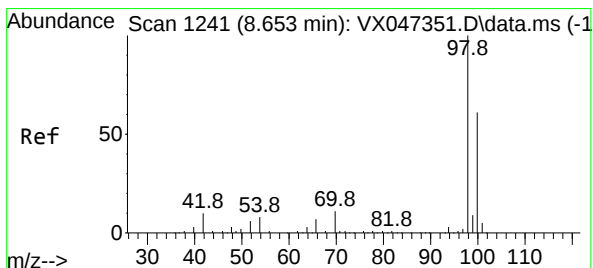
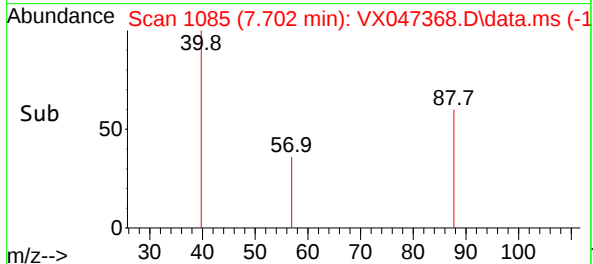
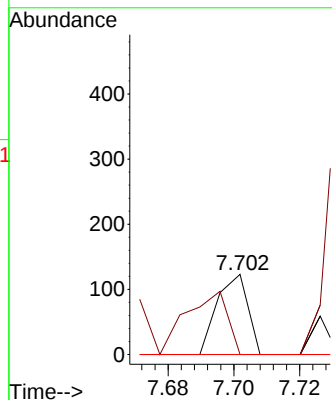
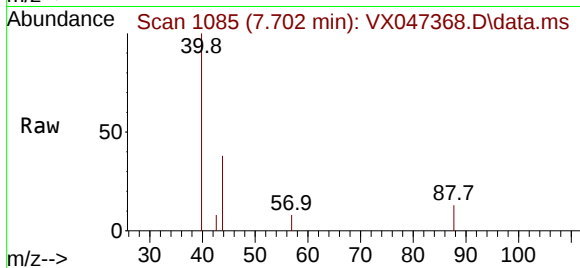
Tgt Ion: 88 Resp: 80

Ion Ratio Lower Upper

88 100

43 105.0 32.4 48.6#

58 0.0 56.9 85.3#



#50

Toluene-d8

Concen: 52.823 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047368.D

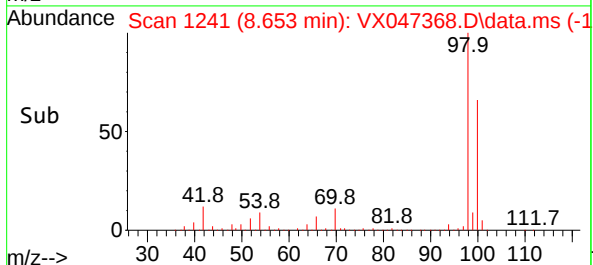
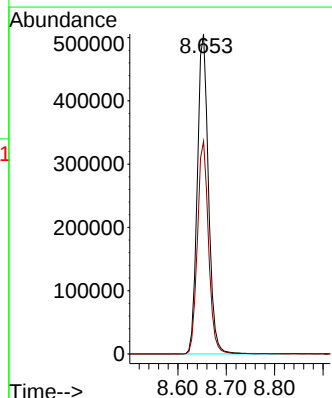
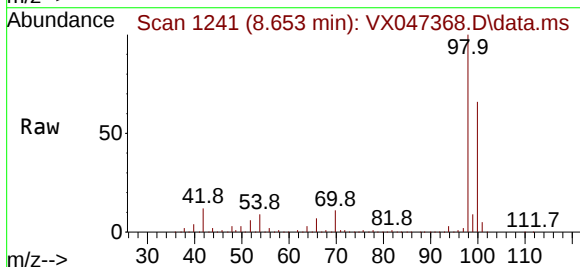
Acq: 15 Aug 2025 17:19

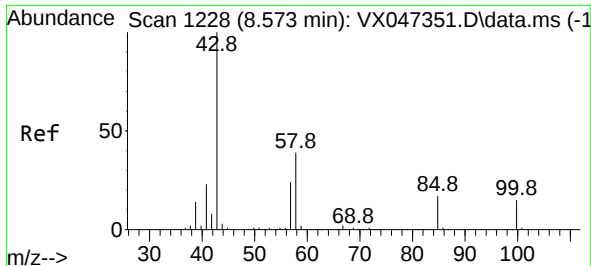
Tgt Ion: 98 Resp: 805553

Ion Ratio Lower Upper

98 100

100 66.4 53.9 80.9

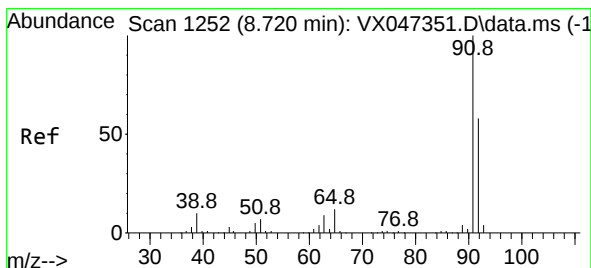
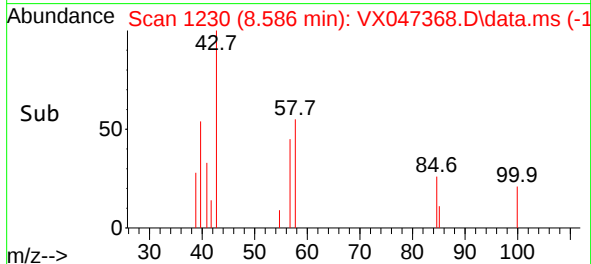
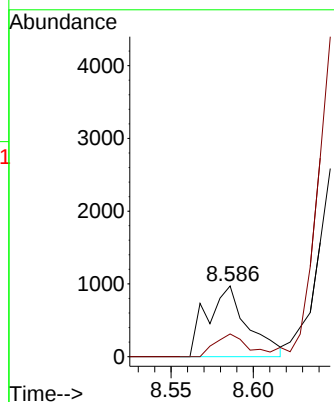
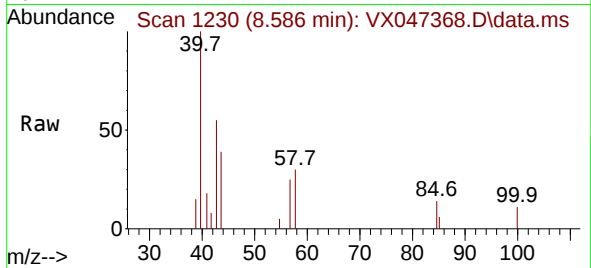




#51
4-Methyl-2-Pentanone
Concen: 0.286 ug/l
RT: 8.586 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

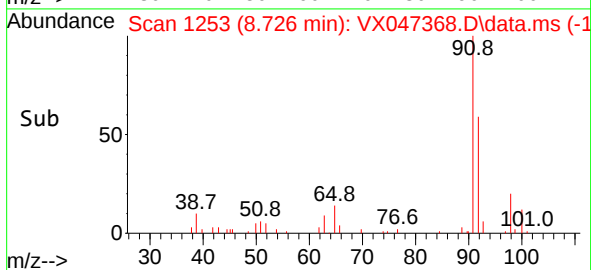
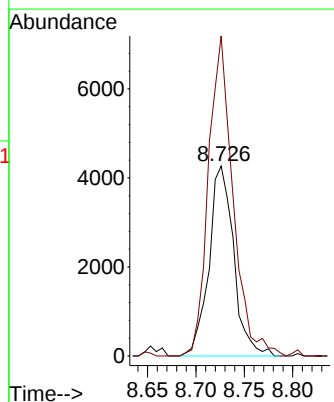
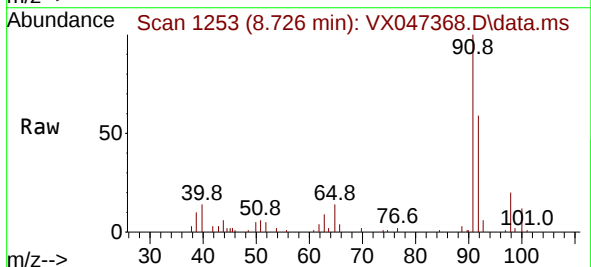
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

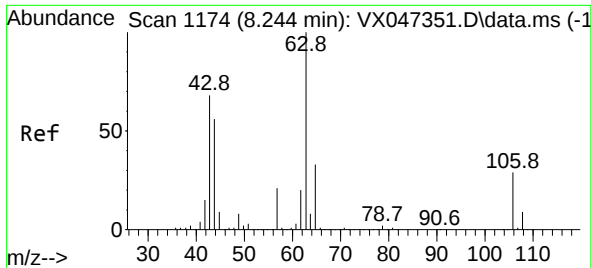
Tgt Ion: 43 Resp: 1653
Ion Ratio Lower Upper
43 100
58 26.2 31.2 46.8#



#52
Toluene
Concen: 0.610 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion: 92 Resp: 7597
Ion Ratio Lower Upper
92 100
91 167.3 136.3 204.5

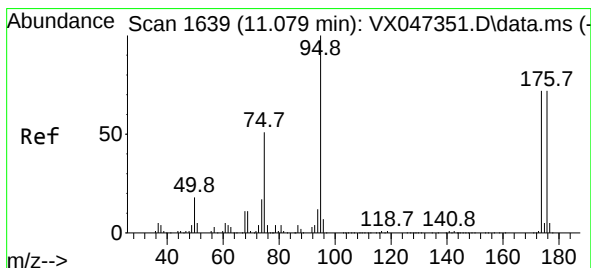
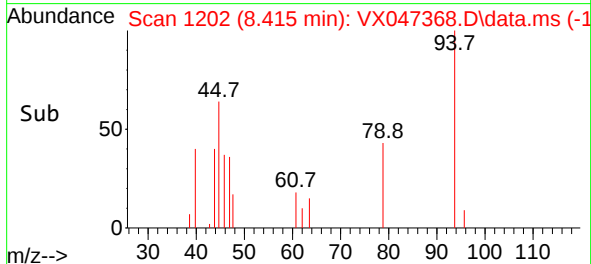
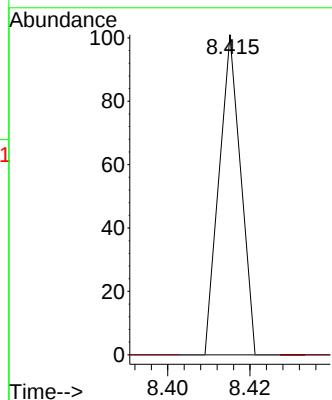
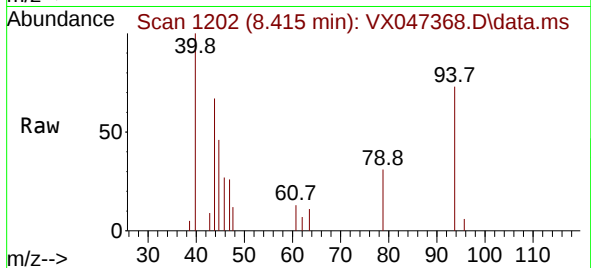




#58
2-Chloroethyl Vinyl ether
Concen: 8.366 ug/l
RT: 8.415 min Scan# 1174
Delta R.T. 0.171 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

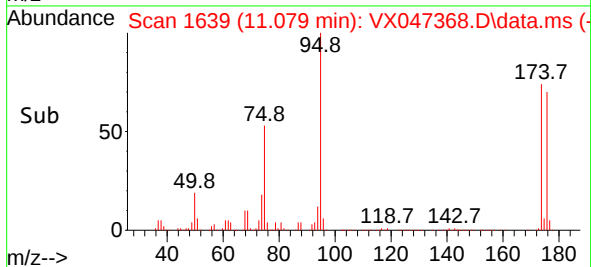
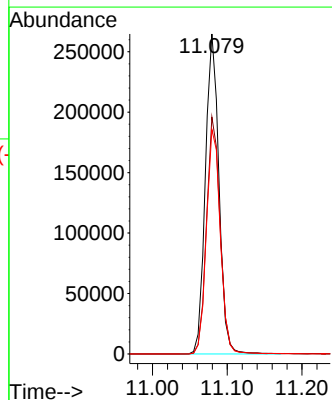
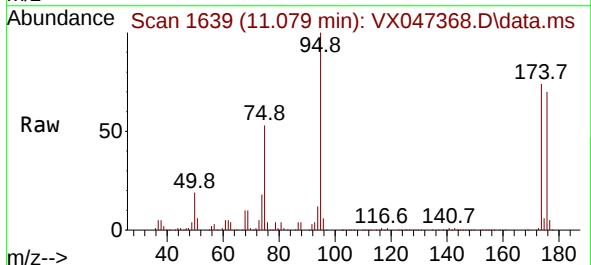
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

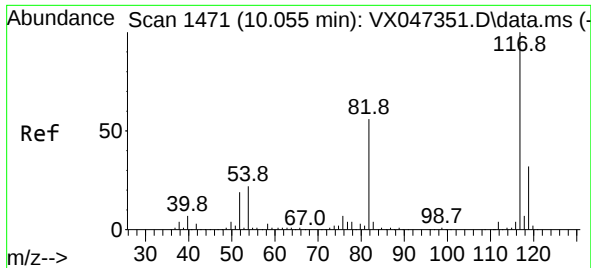
Tgt Ion: 63 Resp: 37
Ion Ratio Lower Upper
63 100
106 0.0 22.8 34.2#



#62
4-Bromofluorobenzene
Concen: 59.204 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion: 95 Resp: 333173
Ion Ratio Lower Upper
95 100
174 74.5 0.0 148.0
176 72.1 0.0 145.4

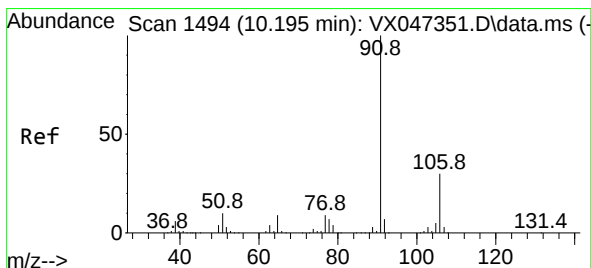
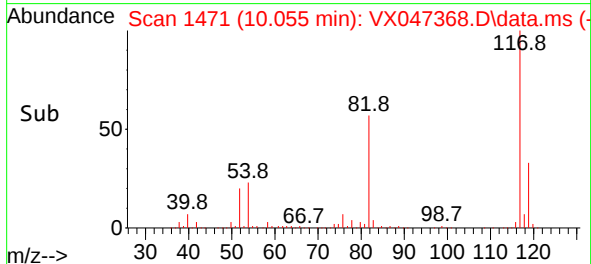
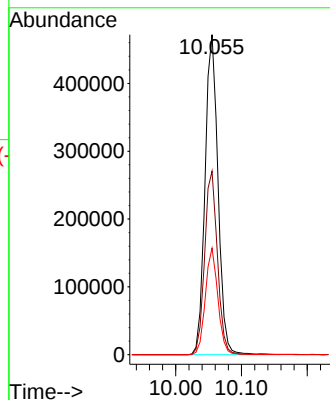
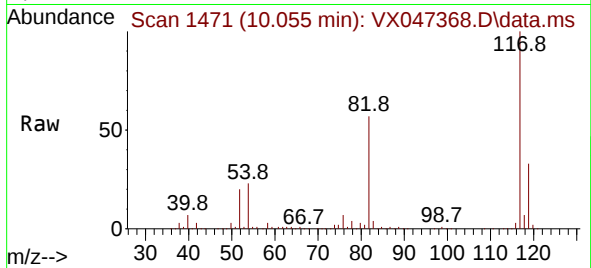




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

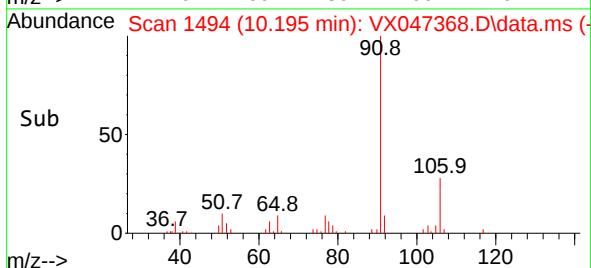
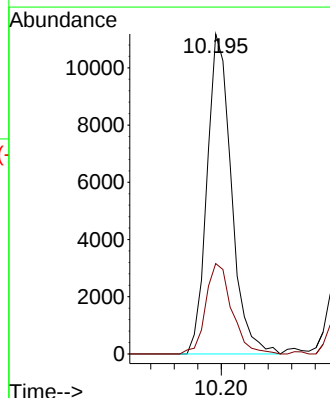
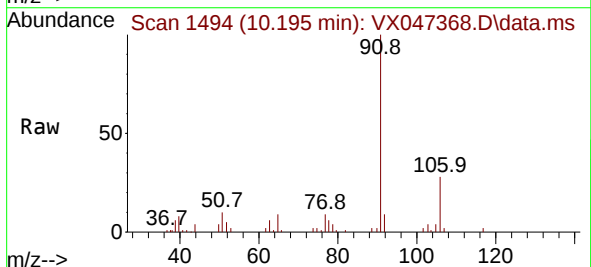
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

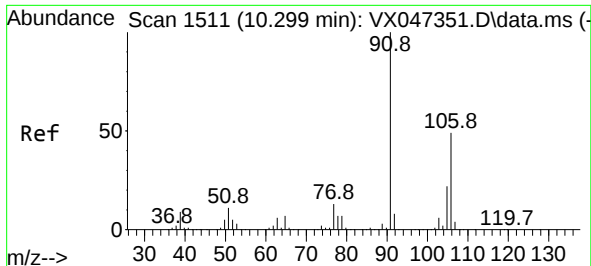
Tgt Ion:117 Resp: 647442
Ion Ratio Lower Upper
117 100
82 57.3 45.0 67.4
119 33.3 25.8 38.8



#67
Ethyl Benzene
Concen: 0.607 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion: 91 Resp: 16082
Ion Ratio Lower Upper
91 100
106 28.2 24.4 36.6

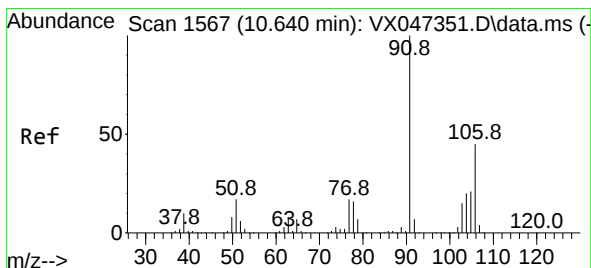
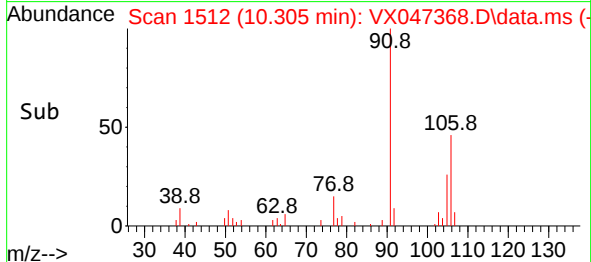
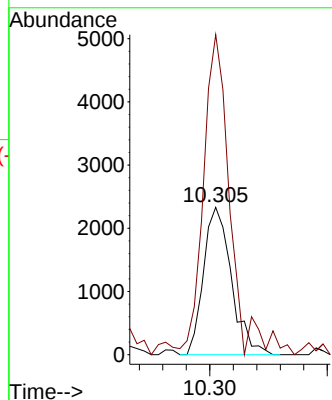
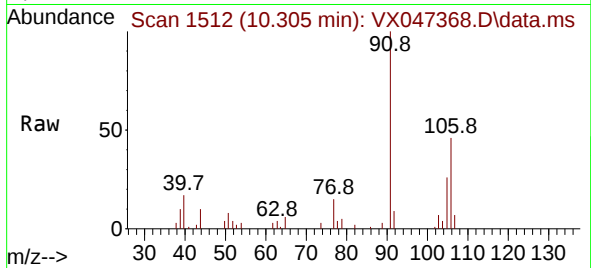




#68
m/p-Xylenes
Concen: 0.389 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

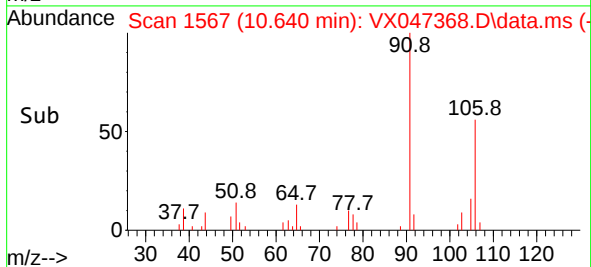
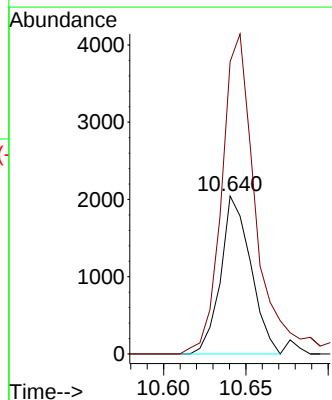
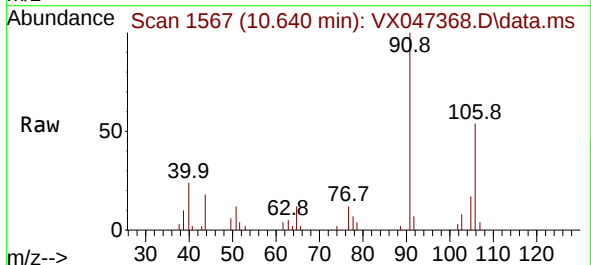
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

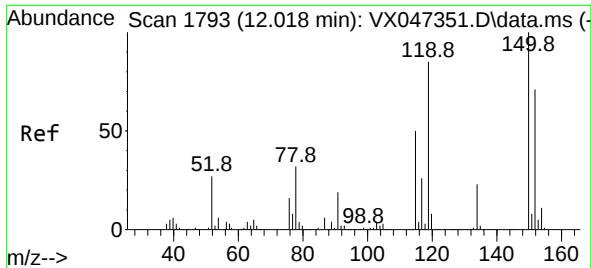
Tgt Ion:106 Resp: 3840
Ion Ratio Lower Upper
106 100
91 192.9 164.7 247.1



#69
o-Xylene
Concen: 0.273 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion:106 Resp: 2598
Ion Ratio Lower Upper
106 100
91 234.0 110.6 331.8

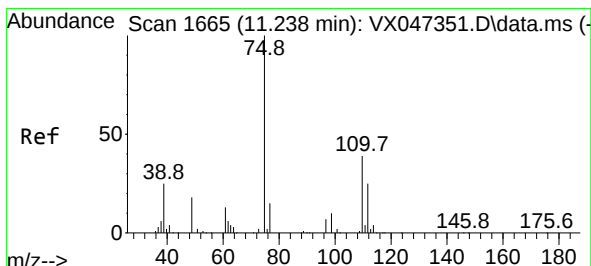
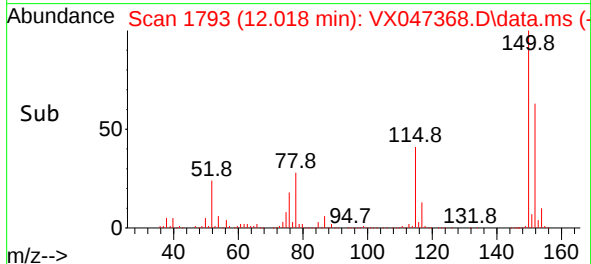
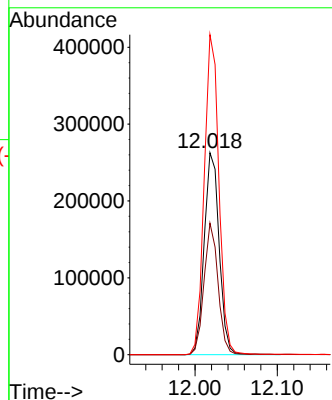
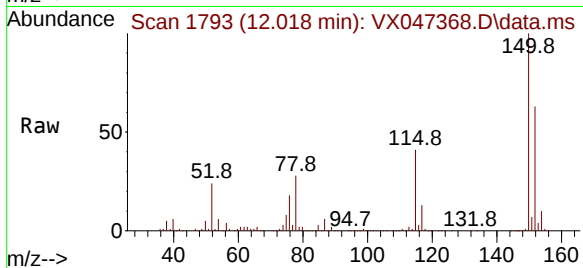




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX047368.D
 Acq: 15 Aug 2025 17:19

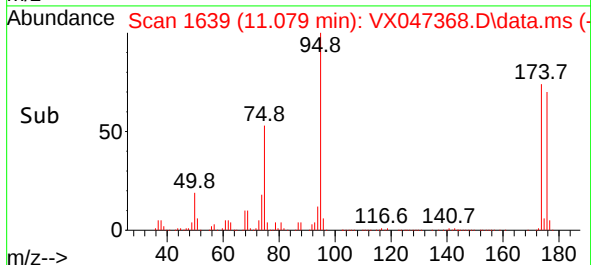
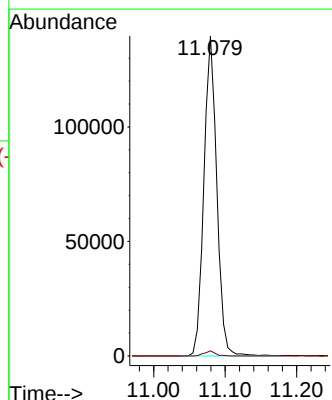
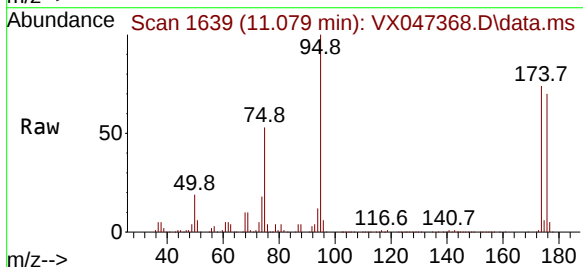
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-WTS-13

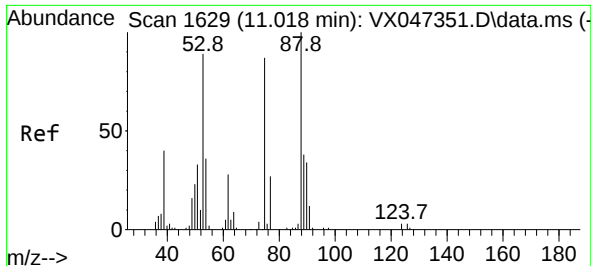
Tgt Ion:152 Resp: 331594
 Ion Ratio Lower Upper
 152 100
 115 61.4 44.6 133.8
 150 155.4 0.0 349.8



#76
 1,2,3-Trichloropropane
 Concen: 28.773 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX047368.D
 Acq: 15 Aug 2025 17:19

Tgt Ion: 75 Resp: 174992
 Ion Ratio Lower Upper
 75 100
 77 1.4 19.4 58.2#

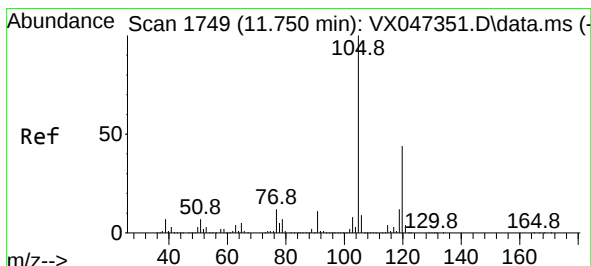
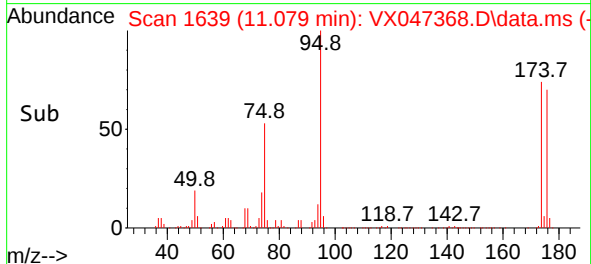
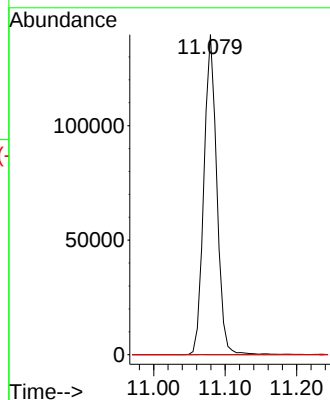
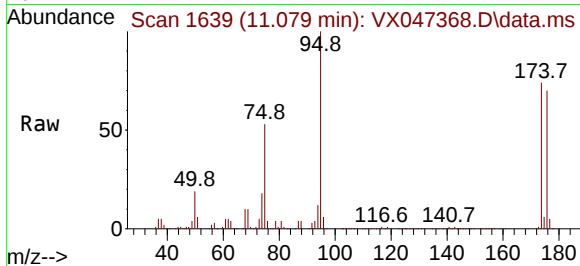




#81
trans-1,4-Dichloro-2-butene
Concen: 113.263 ug/l
RT: 11.079 min Scan# 1629
Delta R.T. 0.061 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

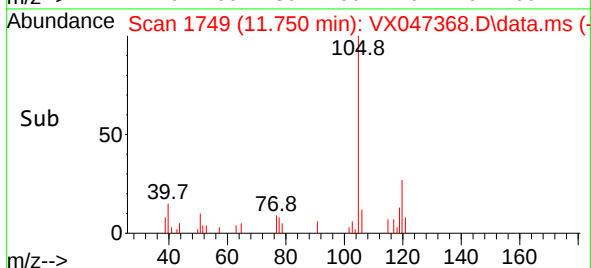
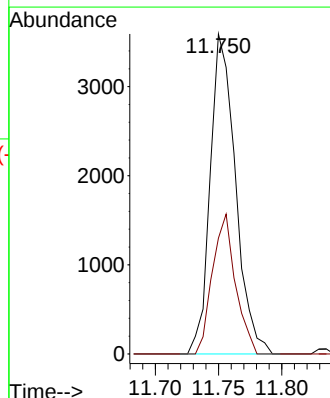
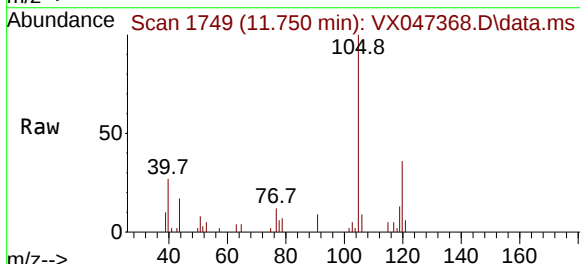
Instrument :
MSVOA_X
ClientSampleId :
TW-WTS-13

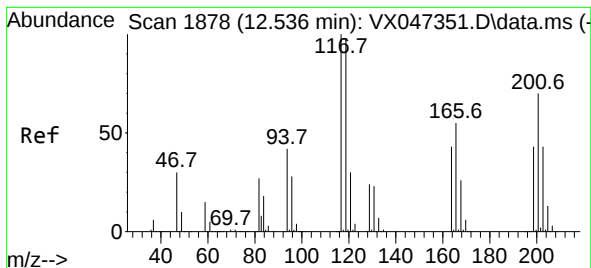
Tgt Ion: 75 Resp: 174992
Ion Ratio Lower Upper
75 100
53 0.0 85.2 127.8#
89 0.0 36.7 55.1#



#84
1,2,4-Trimethylbenzene
Concen: 0.234 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047368.D
Acq: 15 Aug 2025 17:19

Tgt Ion:105 Resp: 4996
Ion Ratio Lower Upper
105 100
120 39.7 21.9 65.7





#90

Hexachloroethane

Concen: 0.467 ug/l

RT: 12.414 min Scan# 1878

Delta R.T. -0.122 min

Lab File: VX047368.D

Acq: 15 Aug 2025 17:19

Instrument :

MSVOA_X

ClientSampleId :

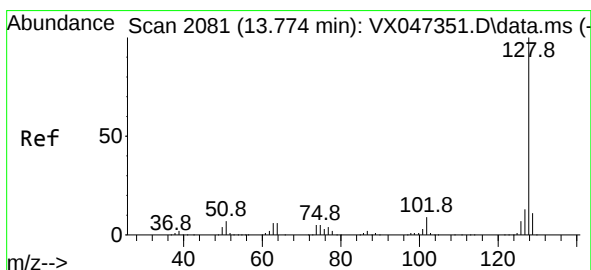
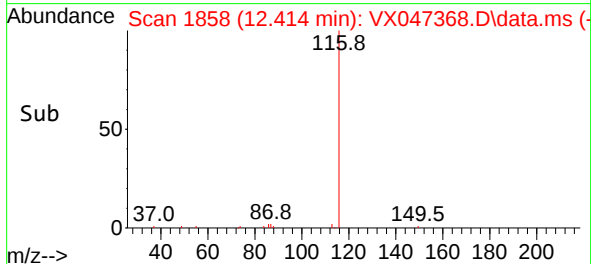
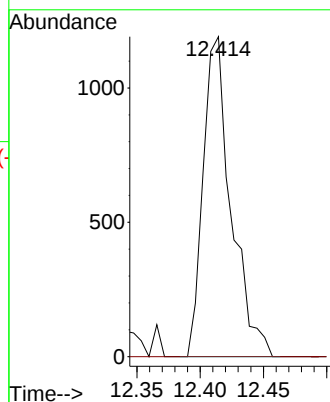
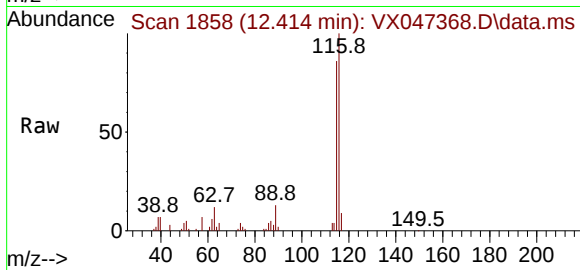
TW-WTS-13

Tgt Ion:117 Resp: 1832

Ion Ratio Lower Upper

117 100

201 0.0 35.1 105.3#



#95

Naphthalene

Concen: 10.607 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX047368.D

Acq: 15 Aug 2025 17:19

Tgt Ion:128 Resp: 233494

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

129 11.0 8.7 13.1

