

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102225\
 Data File : VX048304.D
 Acq On : 22 Oct 2025 17:13
 Operator : JC/MD
 Sample : Q3426-01 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TWP2

Quant Time: Oct 24 05:56:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

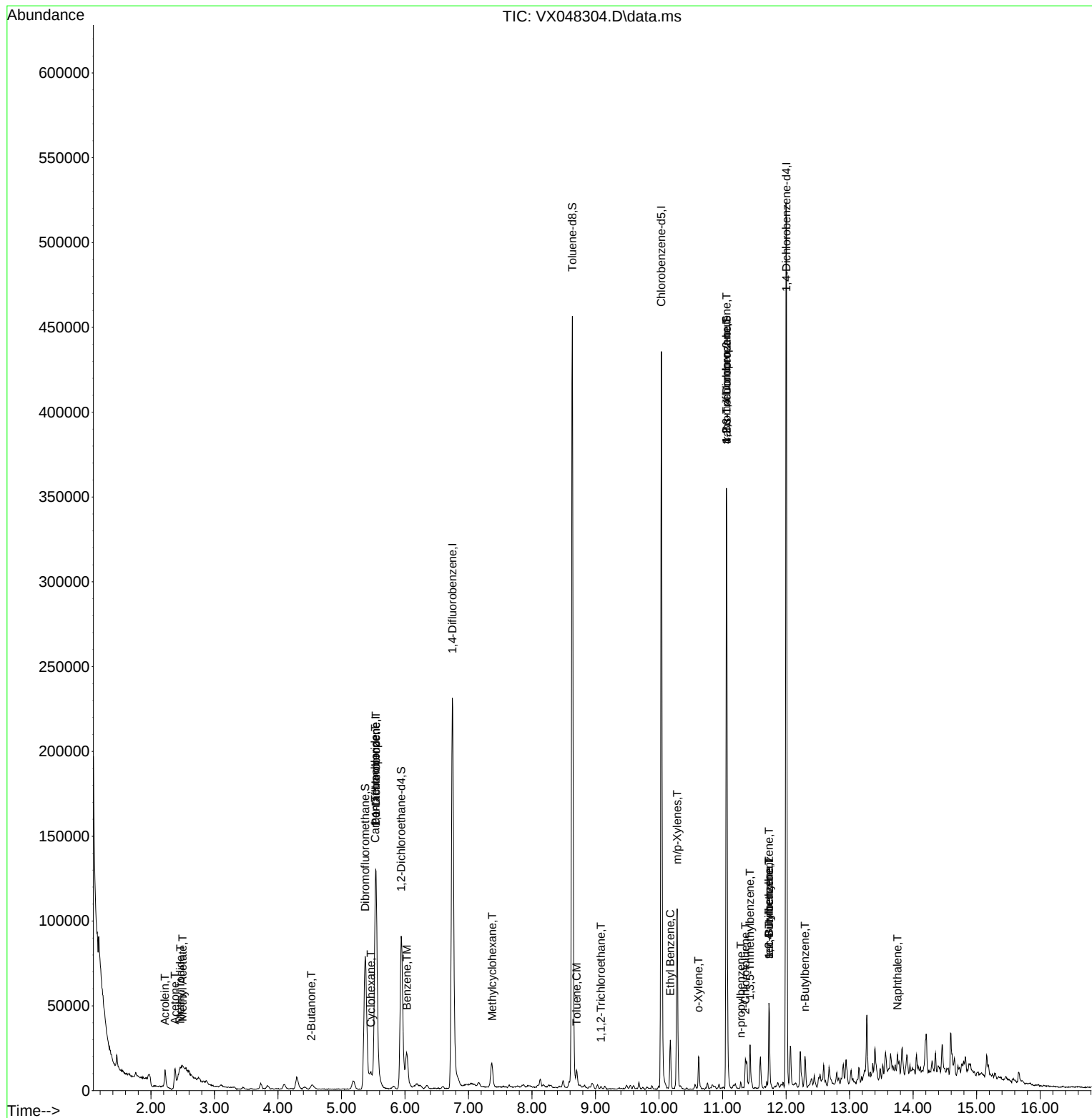
Internal Standards						
1) Pentafluorobenzene	5.538	168	131907	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	258262	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	202143	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114064	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	98789	53.416	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 106.840%	
35) Dibromofluoromethane	5.373	113	77833	44.145	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 88.280%	
50) Toluene-d8	8.635	98	282854	45.769	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 91.540%#	
62) 4-Bromofluorobenzene	11.061	95	100080	42.568	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 85.140%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.465	142	1297	0.725	ug/l #	92
13) Acrolein	2.221	56	403	2.152	ug/l #	1
16) Acetone	2.380	43	16445	25.920	ug/l	95
18) Methyl Acetate	2.495	43	26289	19.841	ug/l #	54
25) 2-Butanone	4.526	43	193	0.240	ug/l #	50
31) Cyclohexane	5.464	56	5862	2.553	ug/l #	95
36) 1,1-Dichloropropene	5.544	75	10960	4.374	ug/l #	48
38) Carbon Tetrachloride	5.532	117	13682	4.425	ug/l #	16
39) Methylcyclohexane	7.373	83	6215	2.100	ug/l	88
40) Benzene	6.031	78	25305	3.478	ug/l	96
52) Toluene	8.702	92	3727	0.806	ug/l	95
55) 1,1,2-Trichloroethane	9.086	97	725	0.422	ug/l #	14
67) Ethyl Benzene	10.177	91	17224	2.225	ug/l	97
68) m/p-Xylenes	10.287	106	25780	8.962	ug/l	97
69) o-Xylene	10.622	106	4407	1.587	ug/l	98
76) 1,2,3-Trichloropropane	11.061	75	51088	27.619	ug/l #	33
78) n-propylbenzene	11.287	91	2501	0.259	ug/l	98
79) 2-Chlorotoluene	11.360	91	2054	0.351	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.433	105	10810	1.568	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.061	75	51088	67.195	ug/l #	10
83) tert-Butylbenzene	11.732	119	2758	0.389	ug/l #	66
84) 1,2,4-Trimethylbenzene	11.732	105	21758	3.162	ug/l	99
85) sec-Butylbenzene	11.732	105	21758	2.553	ug/l #	56
89) n-Butylbenzene	12.299	91	2189	0.326	ug/l #	21
95) Naphthalene	13.756	128	8143	1.229	ug/l #	88

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

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Instrument :
MSVOA_X
ClientSampleId :
TWP2

Quant Time: Oct 24 05:56:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

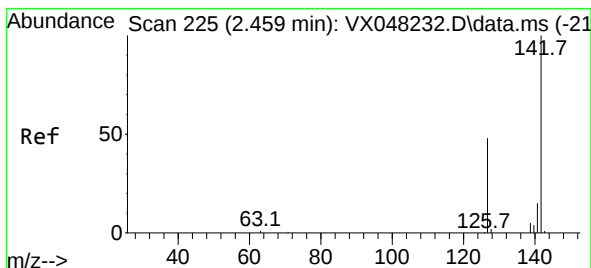
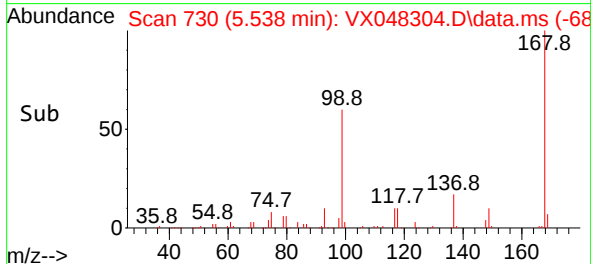
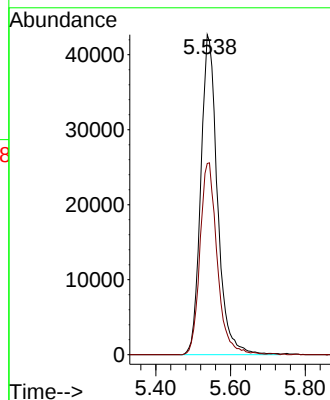
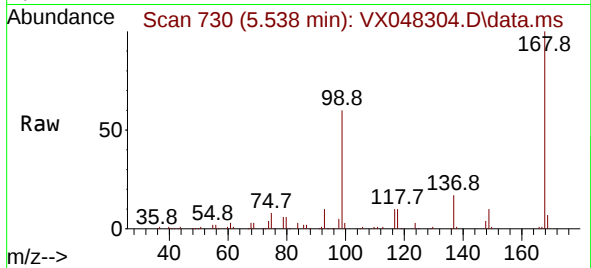




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

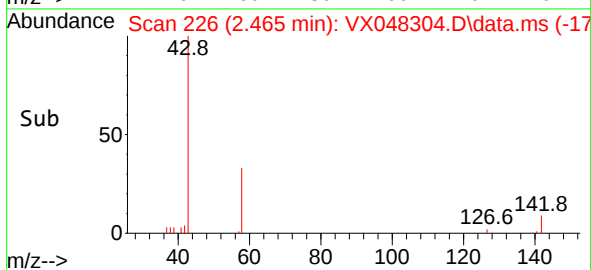
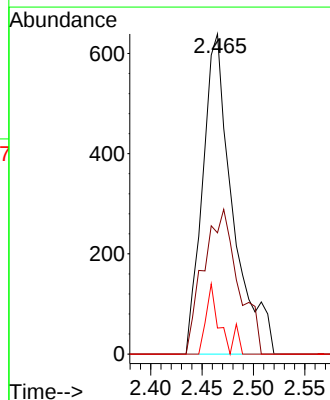
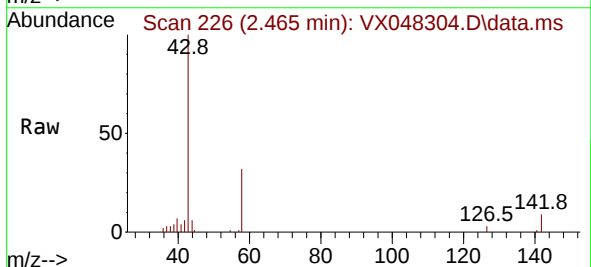
Instrument :
MSVOA_X
ClientSampleId :
TWP2

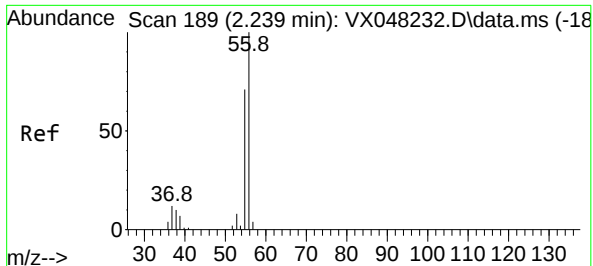
Tgt Ion:168 Resp: 131907
Ion Ratio Lower Upper
168 100
99 59.7 46.4 69.6



#10
Methyl Iodide
Concen: 0.725 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion:142 Resp: 1297
Ion Ratio Lower Upper
142 100
127 52.5 38.5 57.7
141 8.6 11.6 17.4#

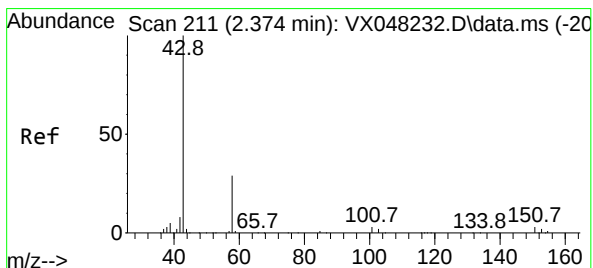
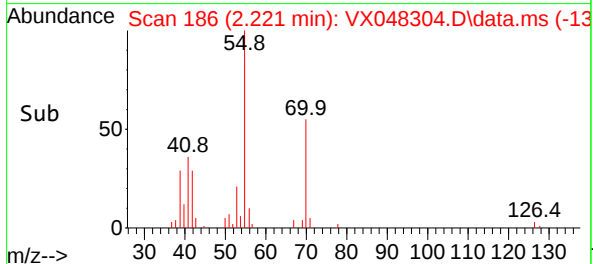
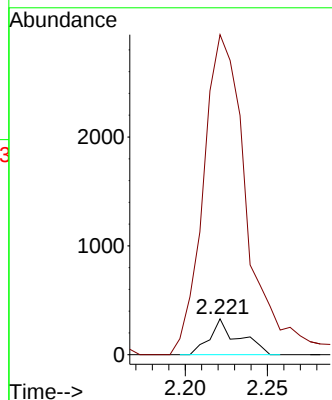
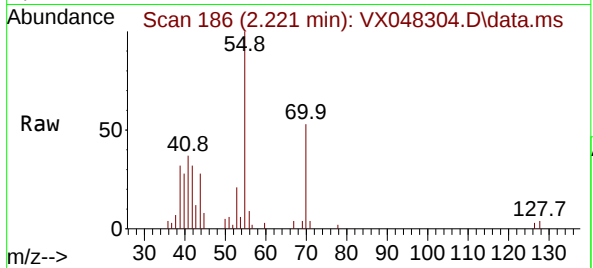




#13
Acrolein
Concen: 2.152 ug/l
RT: 2.221 min Scan# 11
Delta R.T. -0.012 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

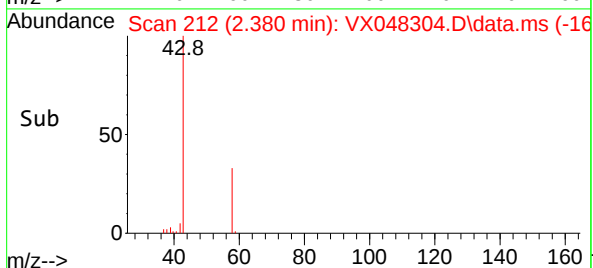
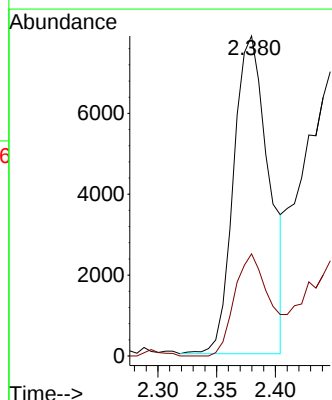
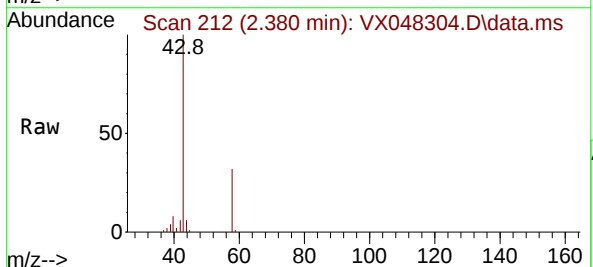
Instrument :
MSVOA_X
ClientSampleId :
TWP2

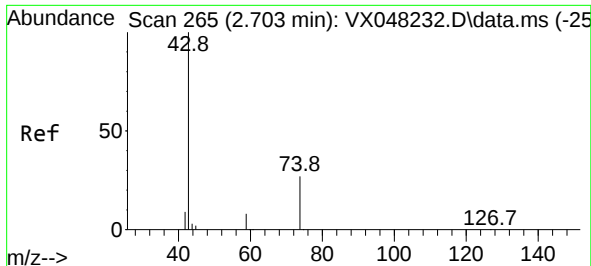
Tgt Ion: 56 Resp: 403
Ion Ratio Lower Upper
56 100
55 1385.1 56.1 84.1#



#16
Acetone
Concen: 25.920 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion: 43 Resp: 16445
Ion Ratio Lower Upper
43 100
58 32.1 23.4 35.2

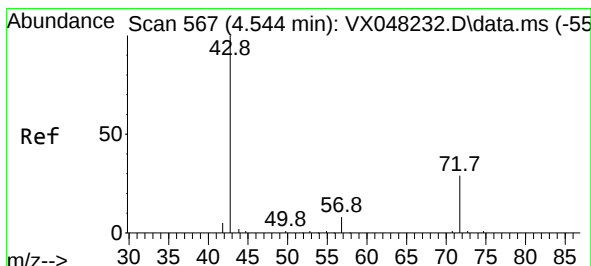
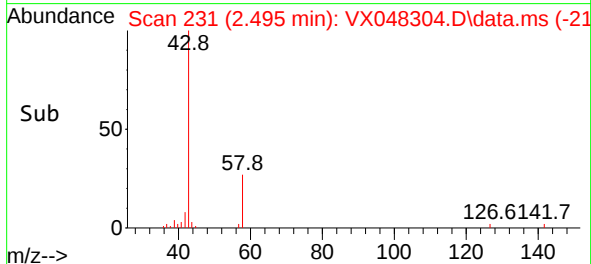
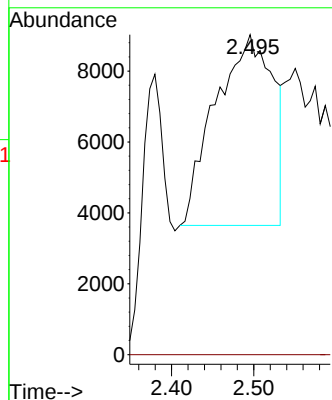
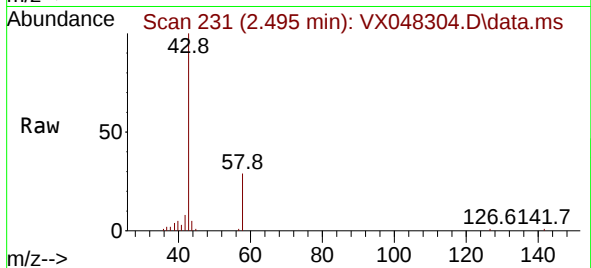




#18
Methyl Acetate
Concen: 19.841 ug/l
RT: 2.495 min Scan# 21
Delta R.T. -0.201 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

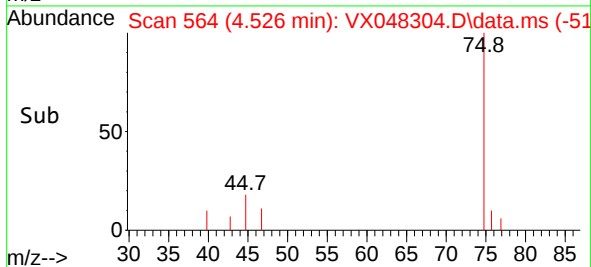
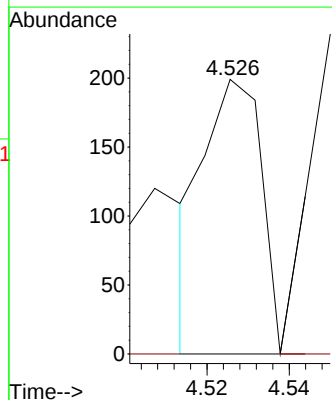
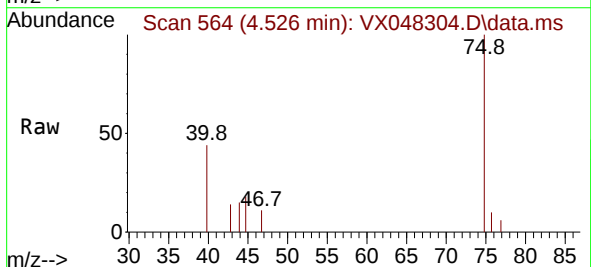
Instrument :
MSVOA_X
ClientSampleId :
TWP2

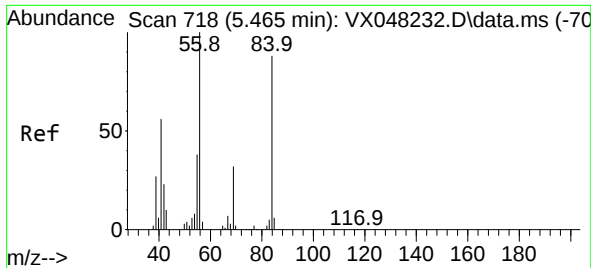
Tgt Ion: 43 Resp: 26289
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#25
2-Butanone
Concen: 0.240 ug/l
RT: 4.526 min Scan# 564
Delta R.T. -0.012 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion: 43 Resp: 193
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

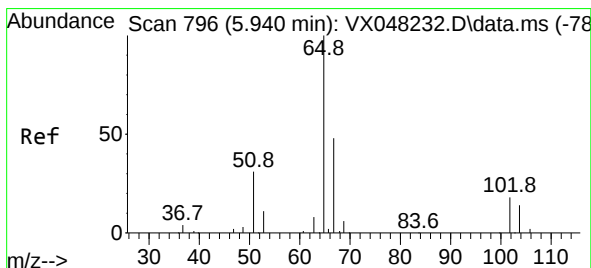
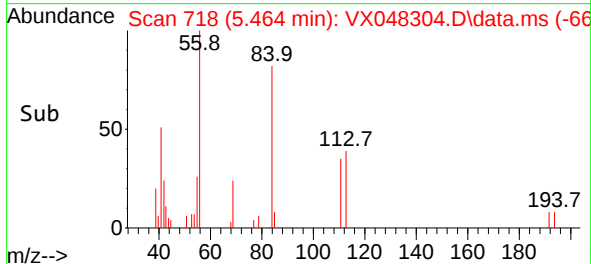
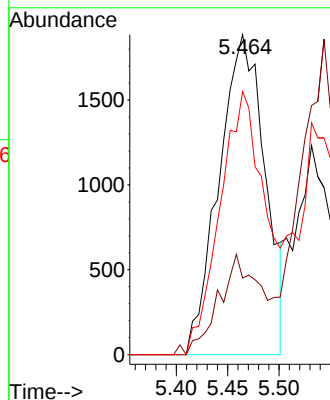
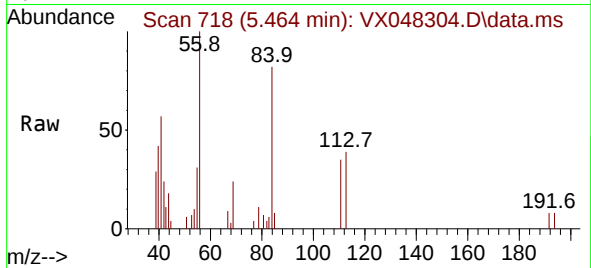




#31
Cyclohexane
Concen: 2.553 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

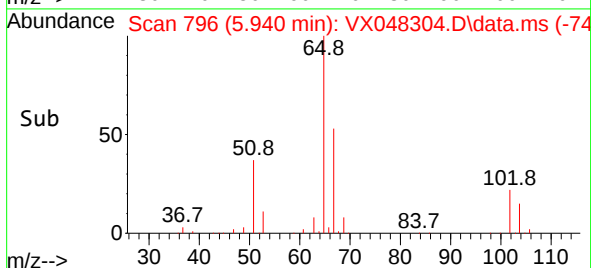
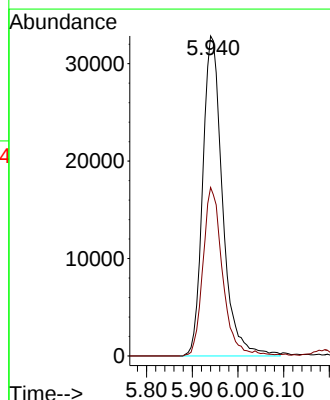
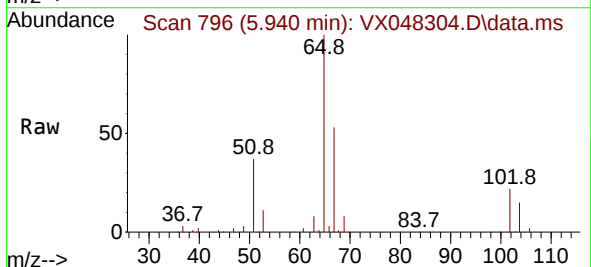
Instrument :
MSVOA_X
ClientSampleId :
TWP2

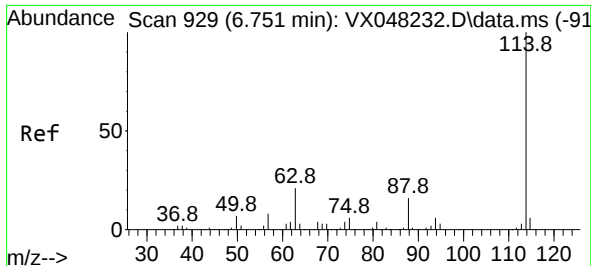
Tgt Ion: 56 Resp: 5862
Ion Ratio Lower Upper
56 100
69 20.9 23.0 34.6#
84 82.2 64.6 97.0



#33
1,2-Dichloroethane-d4
Concen: 53.416 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion: 65 Resp: 98789
Ion Ratio Lower Upper
65 100
67 52.1 0.0 105.0

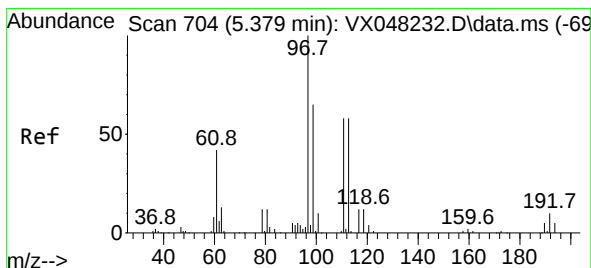
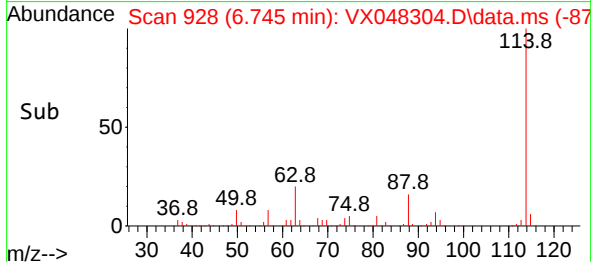
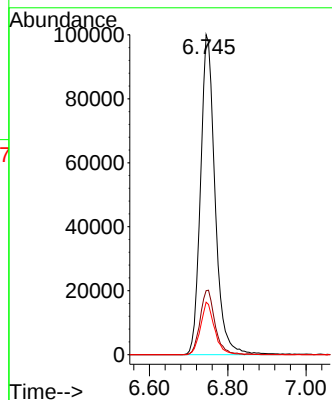
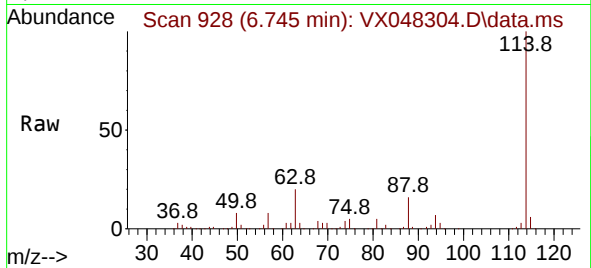




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

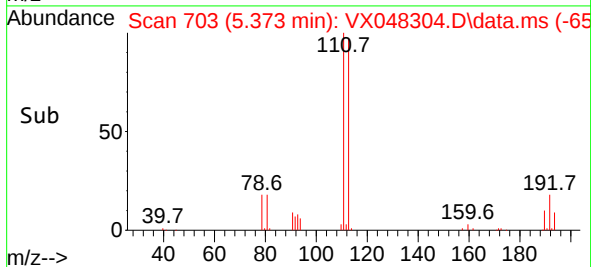
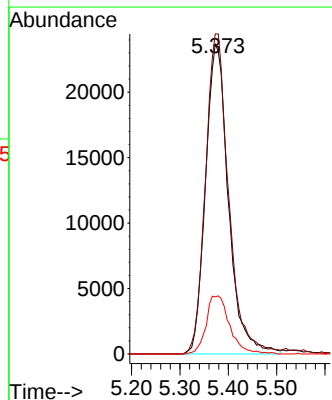
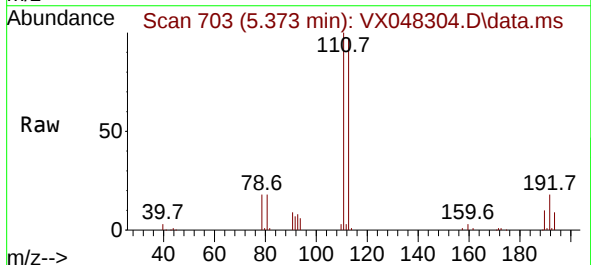
Instrument :
MSVOA_X
ClientSampleId :
TWP2

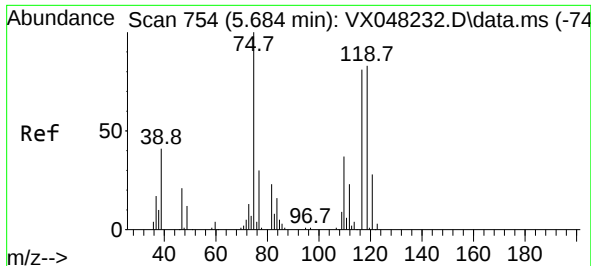
Tgt Ion:114 Resp: 258262
Ion Ratio Lower Upper
114 100
63 20.0 0.0 43.2
88 16.4 0.0 33.6



#35
Dibromofluoromethane
Concen: 44.145 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion:113 Resp: 77833
Ion Ratio Lower Upper
113 100
111 104.4 82.2 123.4
192 19.4 15.1 22.7

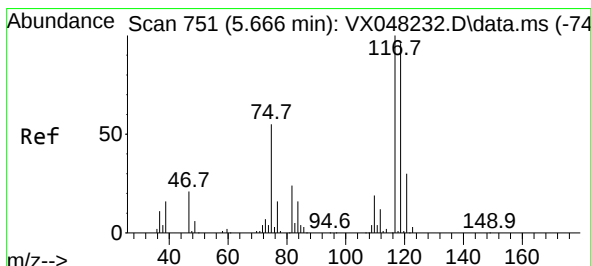
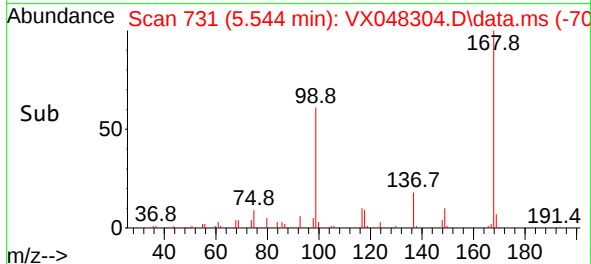
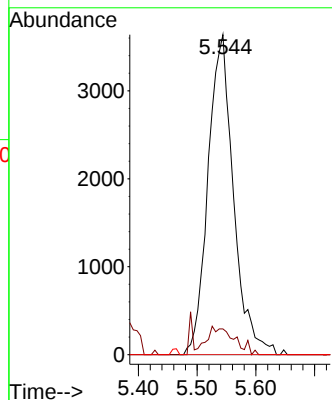
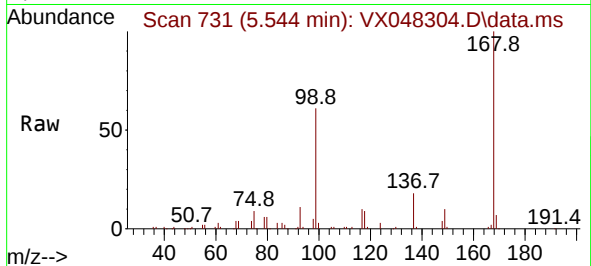




#36
1,1-Dichloropropene
Concen: 4.374 ug/l
RT: 5.544 min Scan# 710
Delta R.T. -0.140 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

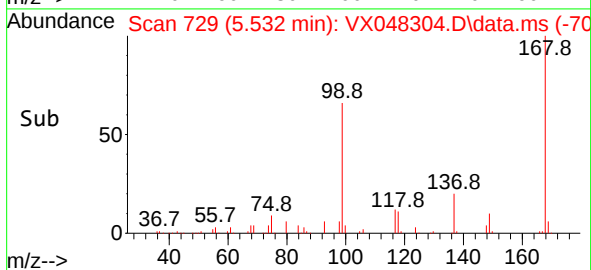
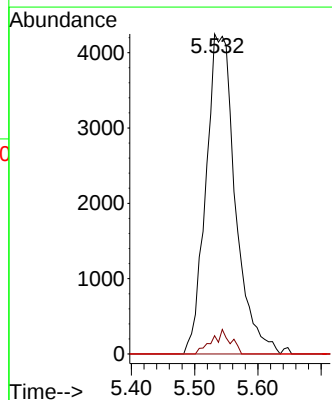
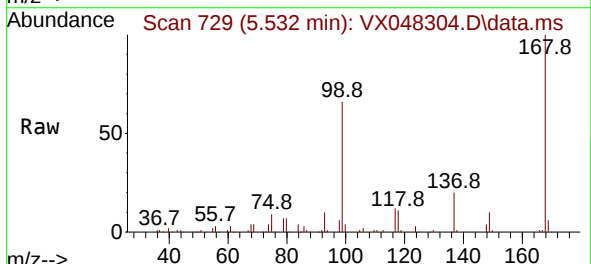
Instrument :
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TWP2

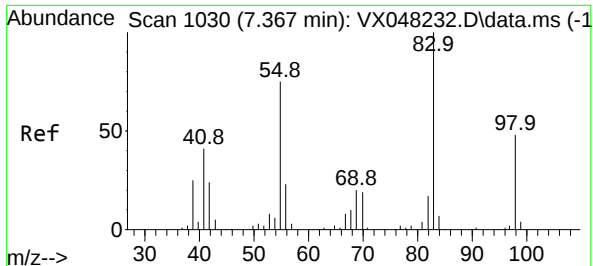
Tgt Ion: 75 Resp: 10960
Ion Ratio Lower Upper
75 100
110 7.0 17.7 53.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 4.425 ug/l
RT: 5.532 min Scan# 729
Delta R.T. -0.134 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion: 117 Resp: 13682
Ion Ratio Lower Upper
117 100
119 5.7 77.2 115.8#
121 0.0 24.8 37.2#

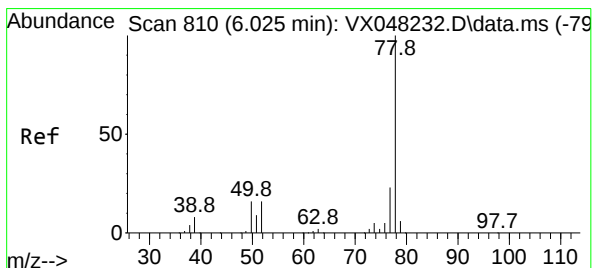
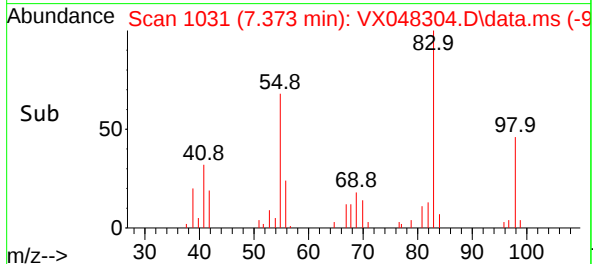
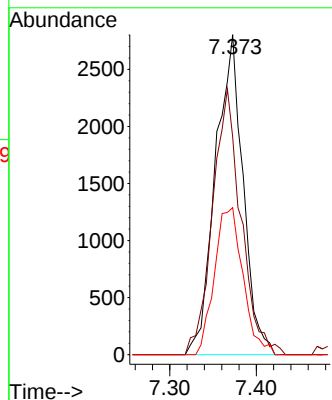
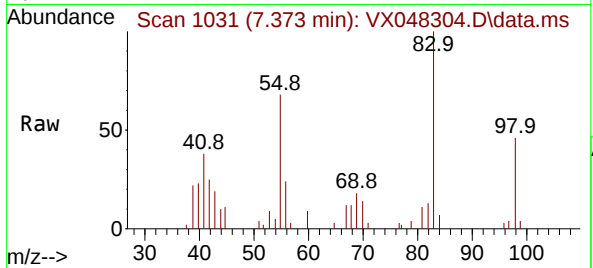




#39
Methylcyclohexane
Concen: 2.100 ug/l
RT: 7.373 min Scan# 1030
Delta R.T. 0.006 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

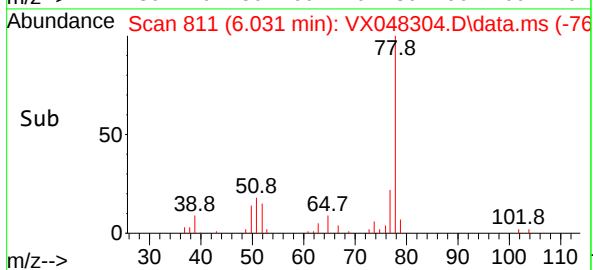
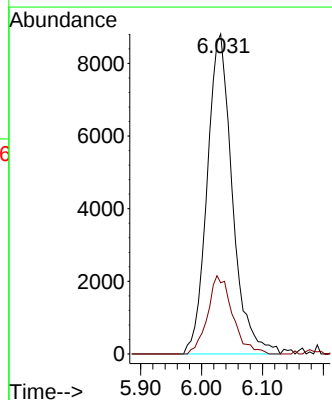
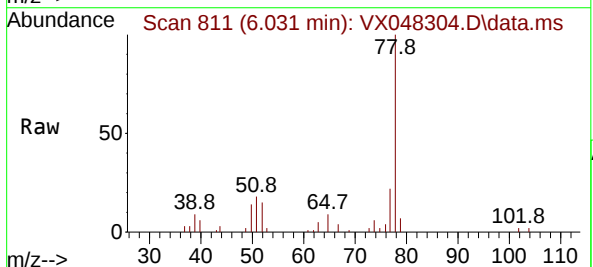
Instrument :
MSVOA_X
ClientSampleId :
TWP2

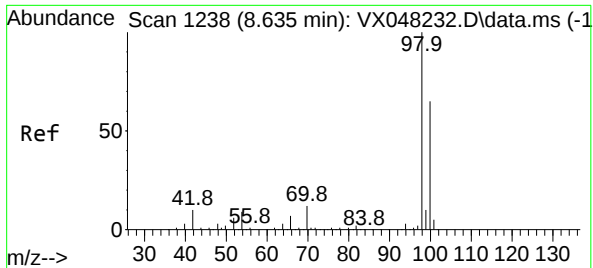
Tgt Ion: 83 Resp: 6215
Ion Ratio Lower Upper
83 100
55 68.0 66.2 99.2
98 46.0 38.9 58.3



#40
Benzene
Concen: 3.478 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion: 78 Resp: 25305
Ion Ratio Lower Upper
78 100
77 22.3 19.3 28.9

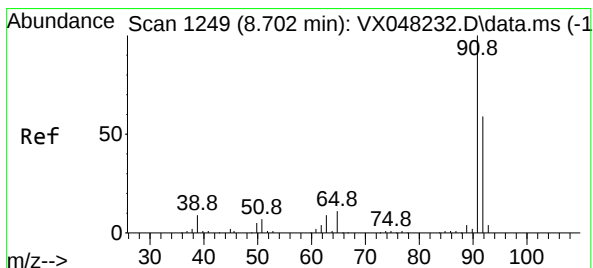
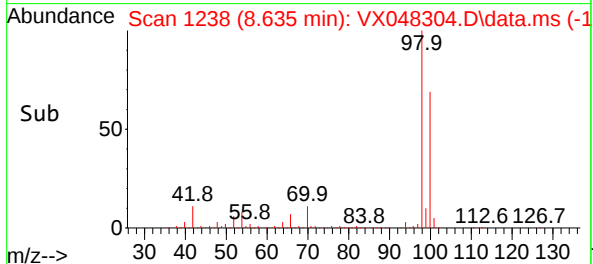
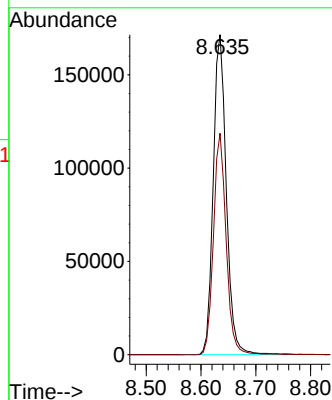
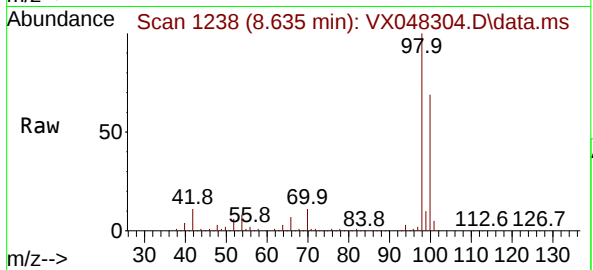




#50
Toluene-d8
Concen: 45.769 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

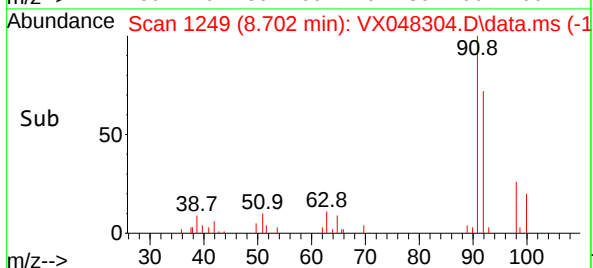
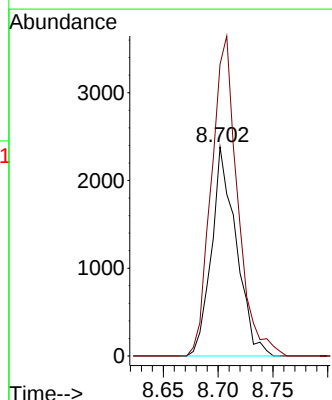
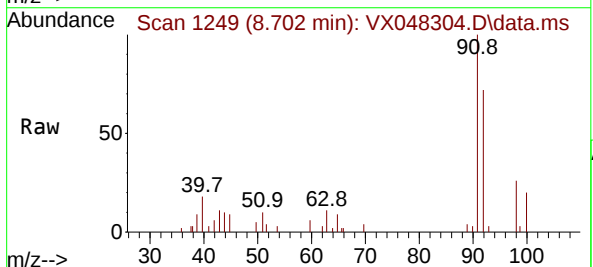
Instrument :
MSVOA_X
ClientSampleId :
TWP2

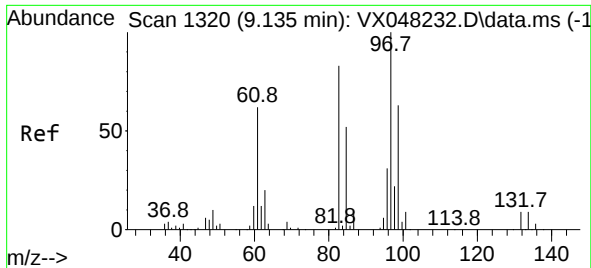
Tgt Ion: 98 Resp: 282854
Ion Ratio Lower Upper
98 100
100 67.0 53.0 79.4



#52
Toluene
Concen: 0.806 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion: 92 Resp: 3727
Ion Ratio Lower Upper
92 100
91 162.7 136.1 204.1

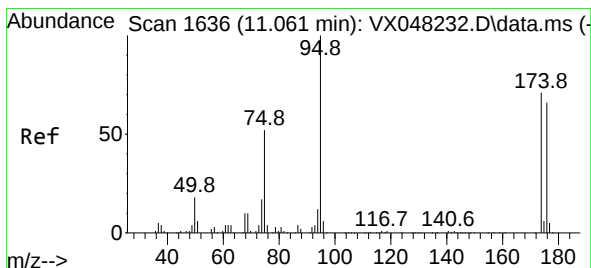
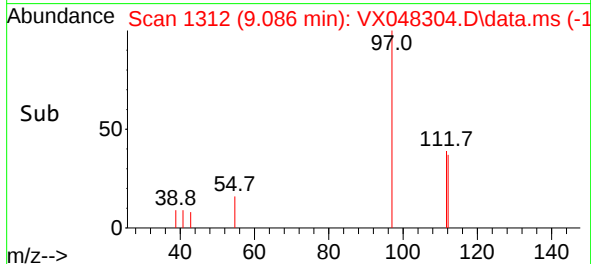
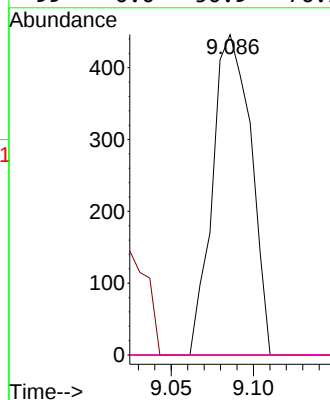
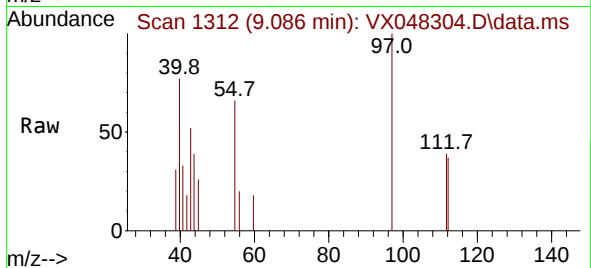




#55
1,1,2-Trichloroethane
Concen: 0.422 ug/l
RT: 9.086 min Scan# 11
Delta R.T. -0.049 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

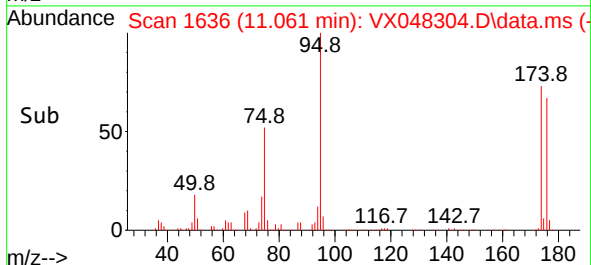
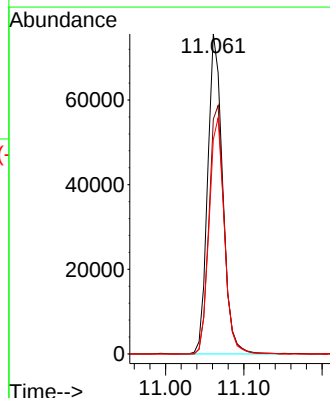
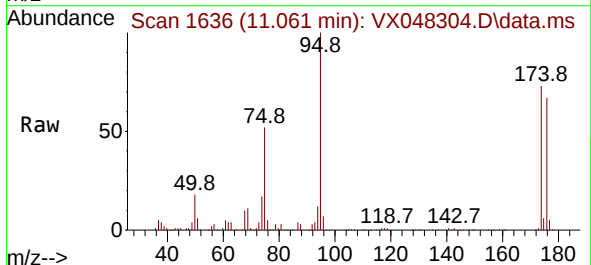
Instrument :
MSVOA_X
ClientSampleId :
TWP2

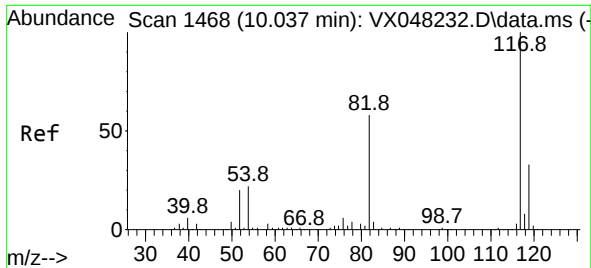
Tgt Ion: 97	Resp: 725
Ion Ratio	Lower Upper
97 100	
83 0.0	70.6 105.8#
85 0.0	45.0 67.6#
99 0.0	50.9 76.3#



#62
4-Bromofluorobenzene
Concen: 42.568 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion: 95	Resp: 100080
Ion Ratio	Lower Upper
95 100	
174 79.0	0.0 147.8
176 75.1	0.0 142.8

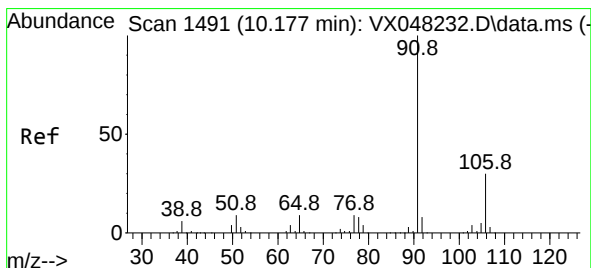
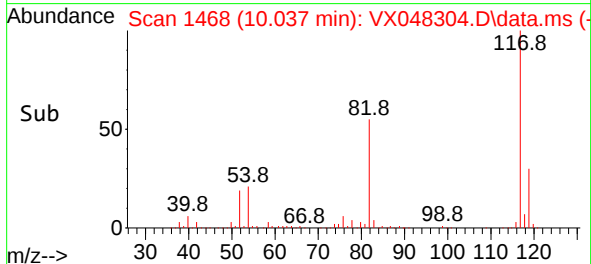
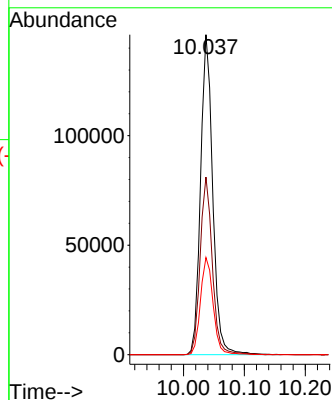
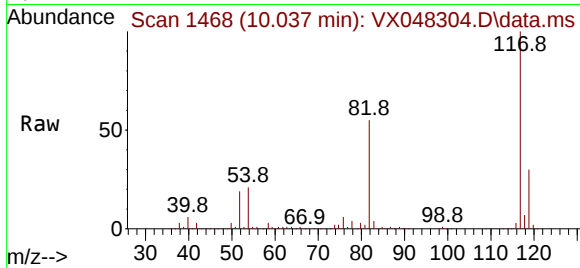




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

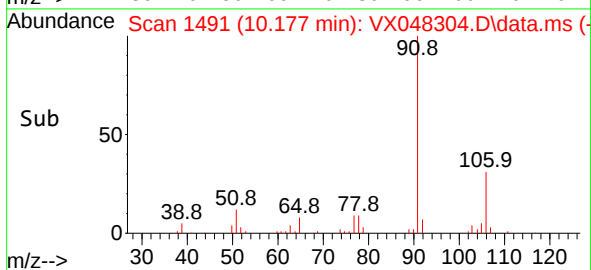
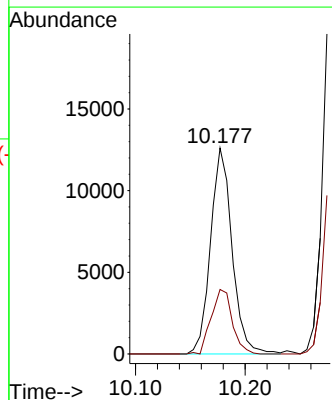
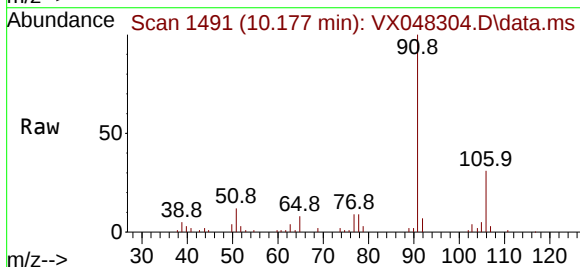
Instrument :
MSVOA_X
ClientSampleId :
TWP2

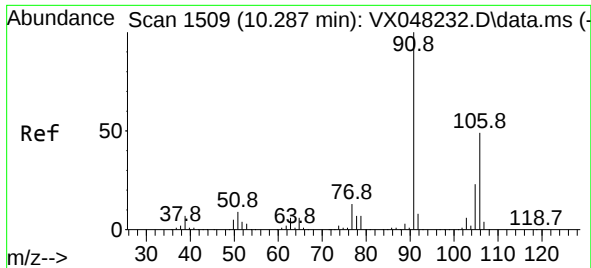
Tgt Ion:117 Resp: 202143
Ion Ratio Lower Upper
117 100
82 55.5 46.5 69.7
119 30.4 25.9 38.9



#67
Ethyl Benzene
Concen: 2.225 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion: 91 Resp: 17224
Ion Ratio Lower Upper
91 100
106 31.3 23.8 35.6

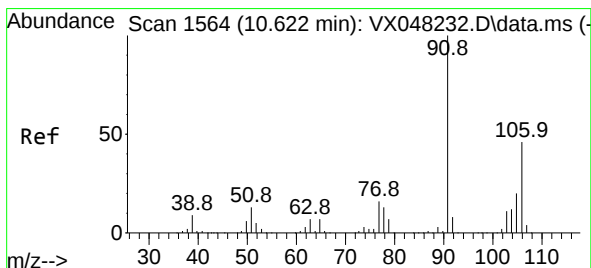
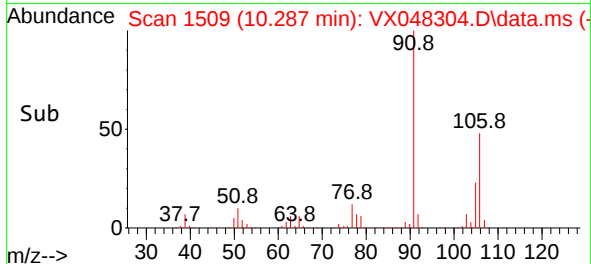
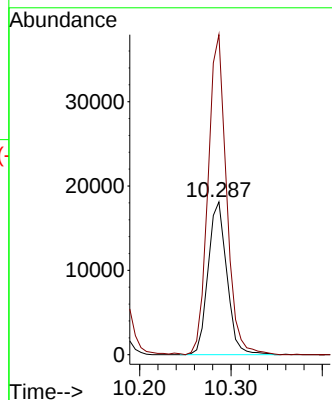
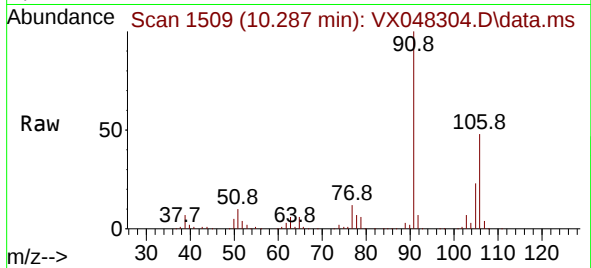




#68
m/p-Xylenes
Concen: 8.962 ug/l
RT: 10.287 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

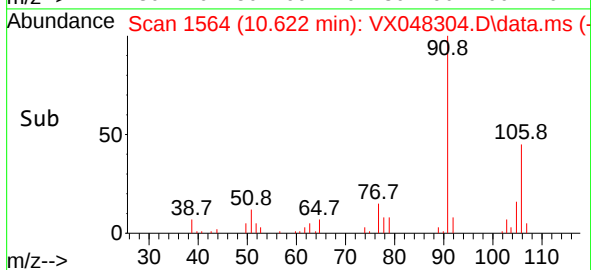
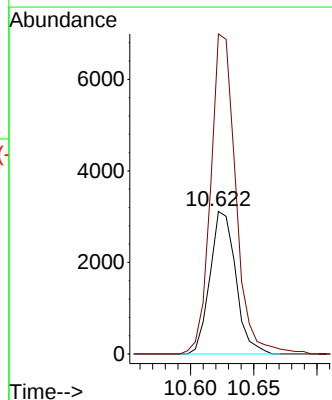
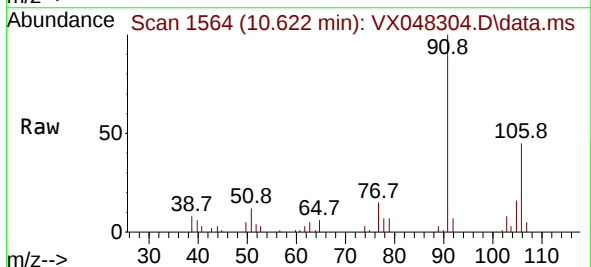
Instrument :
MSVOA_X
ClientSampleId :
TWP2

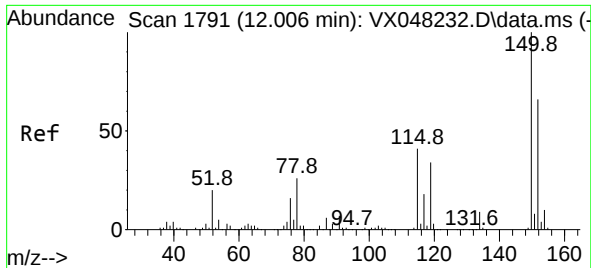
Tgt Ion:106 Resp: 25780
Ion Ratio Lower Upper
106 100
91 206.0 167.9 251.9



#69
o-Xylene
Concen: 1.587 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion:106 Resp: 4407
Ion Ratio Lower Upper
106 100
91 219.7 111.3 333.9

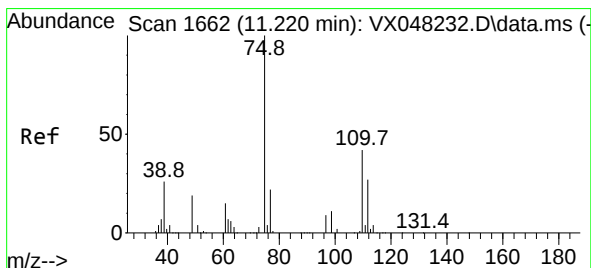
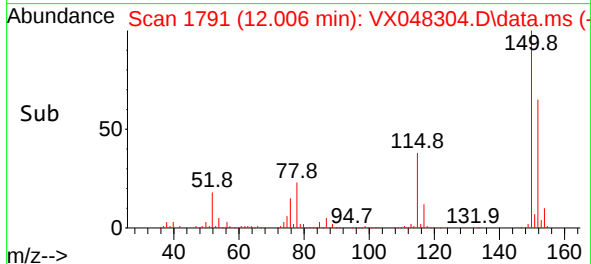
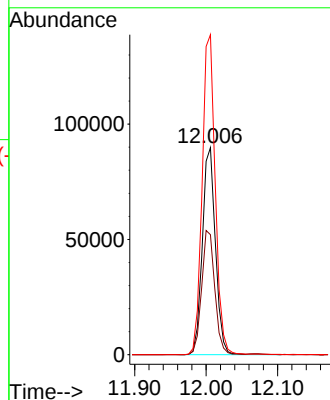
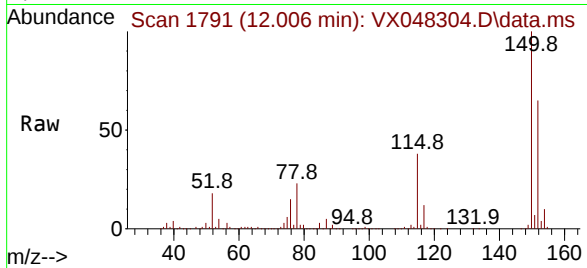




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048304.D
 Acq: 22 Oct 2025 17:13

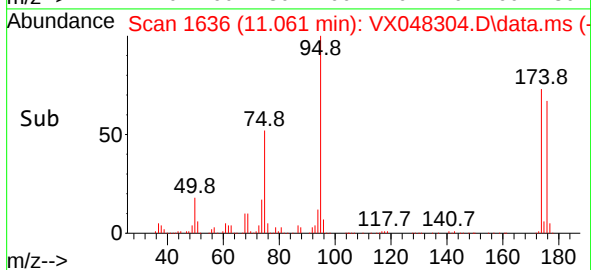
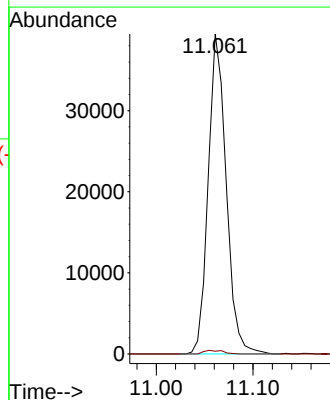
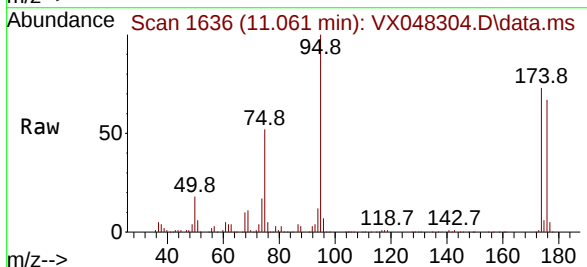
Instrument :
 MSVOA_X
 ClientSampleId :
 TWP2

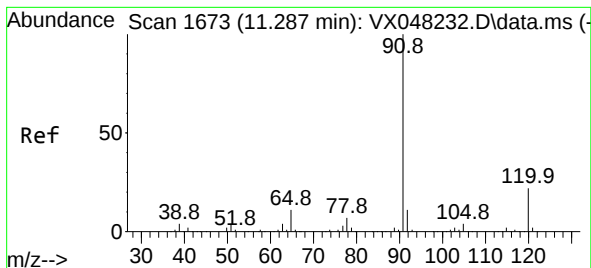
Tgt Ion:152 Resp: 114064
 Ion Ratio Lower Upper
 152 100
 115 60.2 43.1 129.4
 150 154.9 0.0 353.0



#76
 1,2,3-Trichloropropane
 Concen: 27.619 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048304.D
 Acq: 22 Oct 2025 17:13

Tgt Ion: 75 Resp: 51088
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.4 67.2#

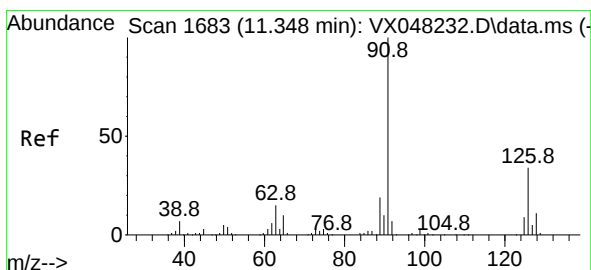
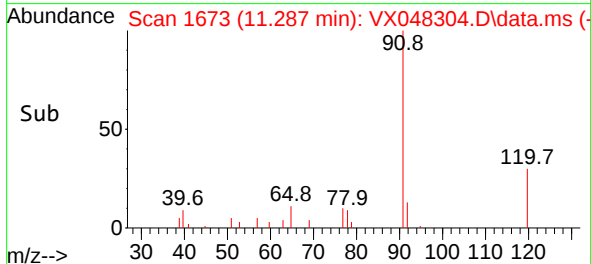
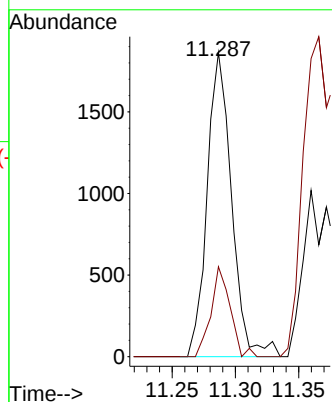
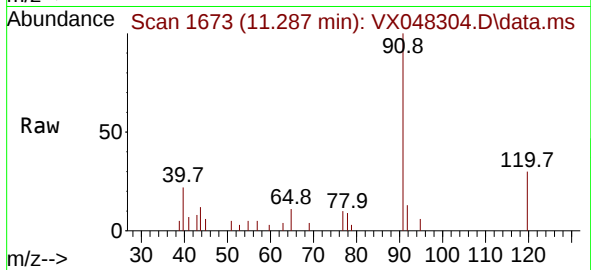




#78
n-propylbenzene
Concen: 0.259 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

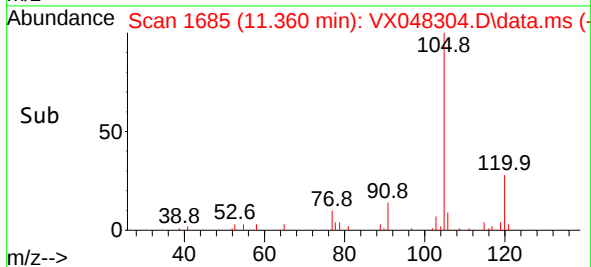
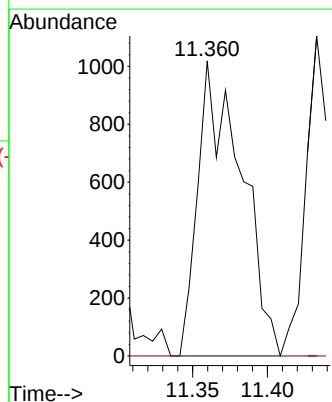
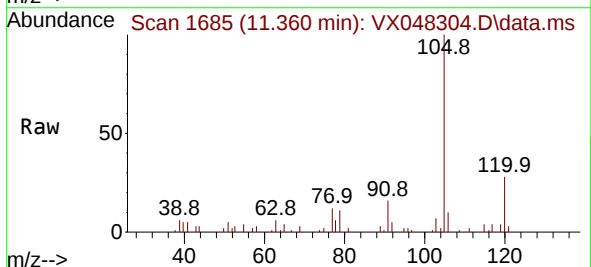
Instrument :
MSVOA_X
ClientSampleId :
TWP2

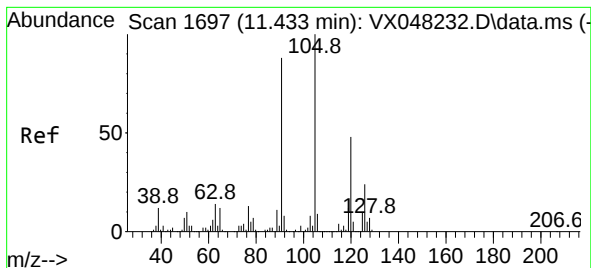
Tgt Ion: 91 Resp: 2501
Ion Ratio Lower Upper
91 100
120 23.1 11.1 33.1



#79
2-Chlorotoluene
Concen: 0.351 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.012 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Tgt Ion: 91 Resp: 2054
Ion Ratio Lower Upper
91 100
126 0.0 16.4 49.4#





#80

1,3,5-Trimethylbenzene

Concen: 1.568 ug/l

RT: 11.433 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048304.D

Acq: 22 Oct 2025 17:13

Instrument :

MSVOA_X

ClientSampleId :

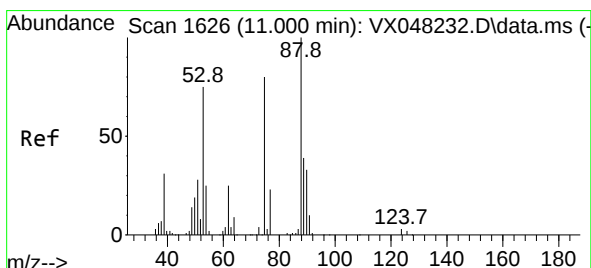
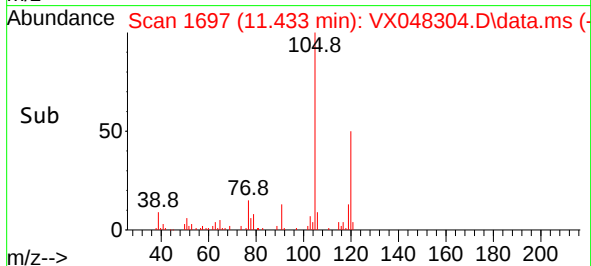
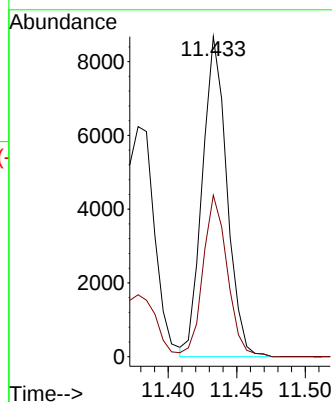
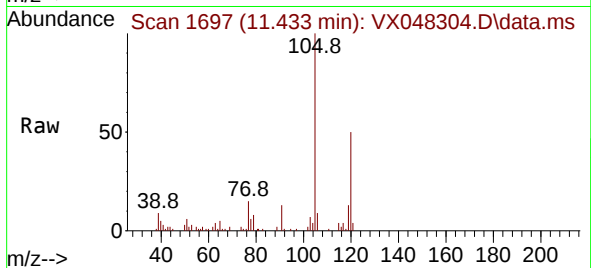
TWP2

Tgt Ion:105 Resp: 10810

Ion Ratio Lower Upper

105 100

120 49.8 24.0 72.0



#81

trans-1,4-Dichloro-2-butene

Concen: 67.195 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.061 min

Lab File: VX048304.D

Acq: 22 Oct 2025 17:13

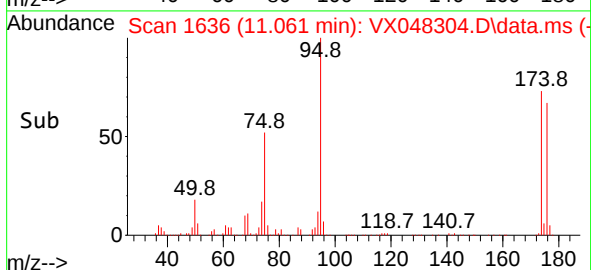
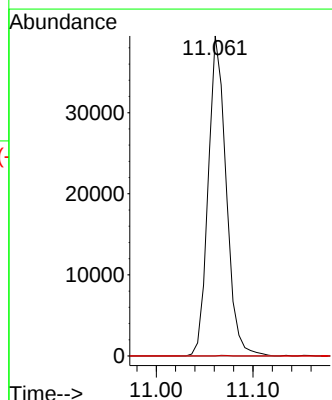
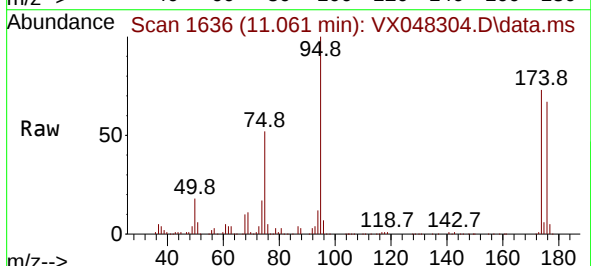
Tgt Ion: 75 Resp: 51088

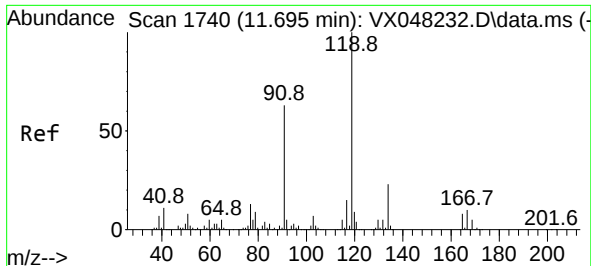
Ion Ratio Lower Upper

75 100

53 0.1 79.5 119.3#

89 0.0 36.8 55.2#

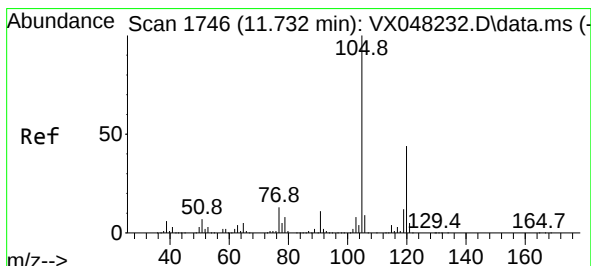
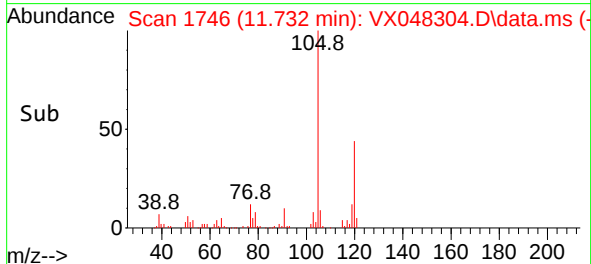
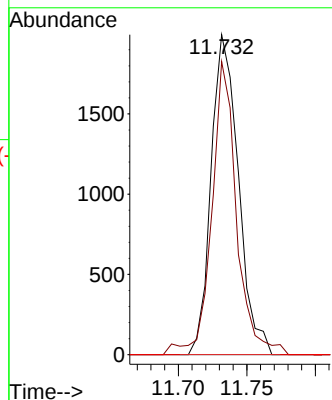
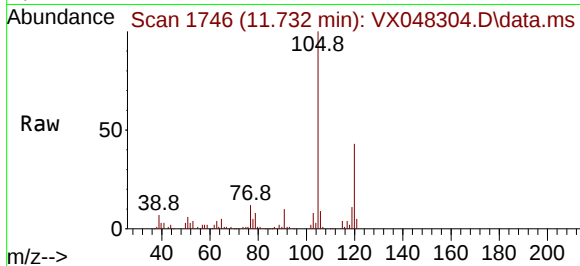




#83
 tert-Butylbenzene
 Concen: 0.389 ug/l
 RT: 11.732 min Scan# 11
 Delta R.T. 0.037 min
 Lab File: VX048304.D
 Acq: 22 Oct 2025 17:13

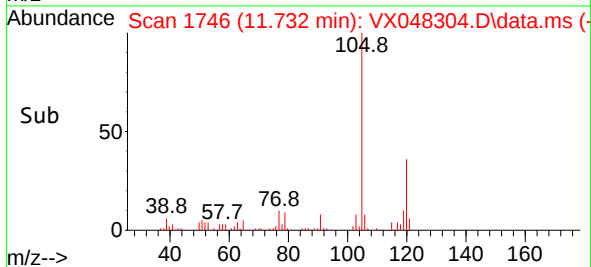
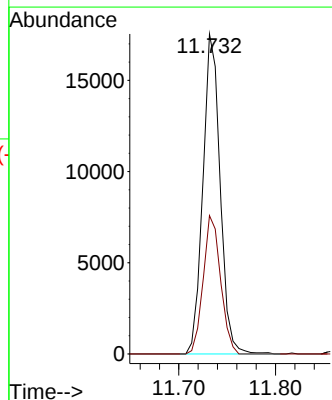
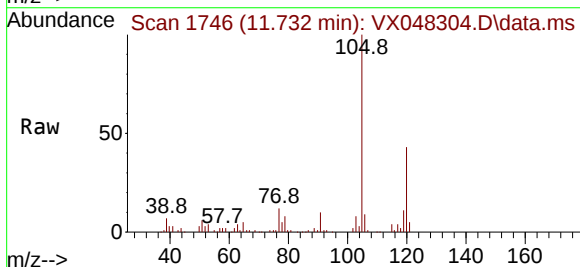
Instrument :
 MSVOA_X
 ClientSampleId :
 TWP2

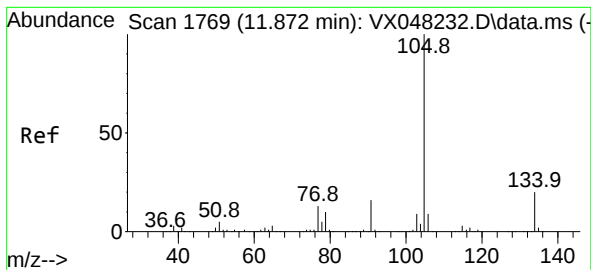
Tgt Ion:119 Resp: 2758
 Ion Ratio Lower Upper
 119 100
 91 83.2 30.3 91.0
 134 0.0 11.4 34.2#



#84
 1,2,4-Trimethylbenzene
 Concen: 3.162 ug/l
 RT: 11.732 min Scan# 1746
 Delta R.T. -0.000 min
 Lab File: VX048304.D
 Acq: 22 Oct 2025 17:13

Tgt Ion:105 Resp: 21758
 Ion Ratio Lower Upper
 105 100
 120 43.6 22.1 66.5





#85

sec-Butylbenzene

Concen: 2.553 ug/l

RT: 11.732 min Scan# 11

Delta R.T. -0.140 min

Lab File: VX048304.D

Acq: 22 Oct 2025 17:13

Instrument :

MSVOA_X

ClientSampleId :

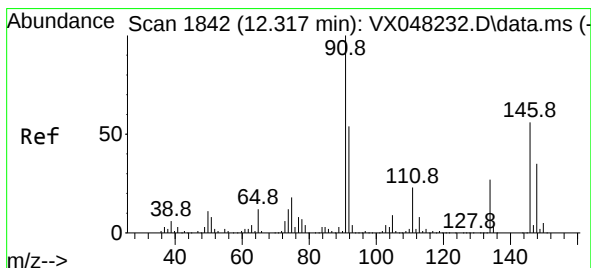
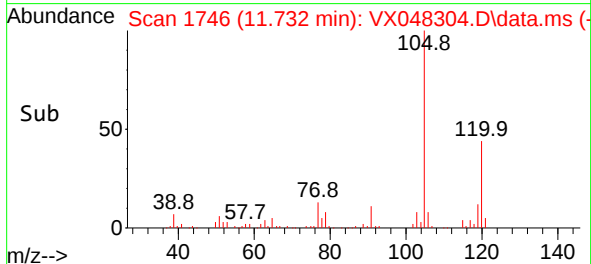
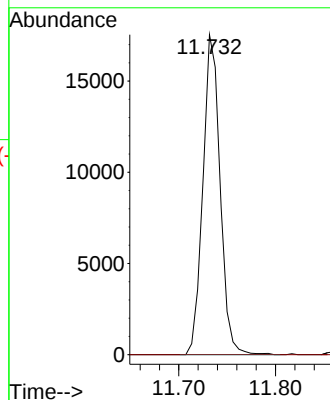
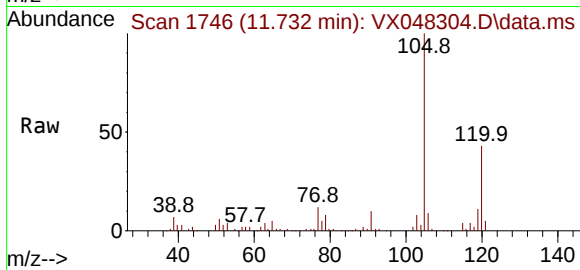
TWP2

Tgt Ion:105 Resp: 21758

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#



#89

n-Butylbenzene

Concen: 0.326 ug/l

RT: 12.299 min Scan# 1839

Delta R.T. -0.012 min

Lab File: VX048304.D

Acq: 22 Oct 2025 17:13

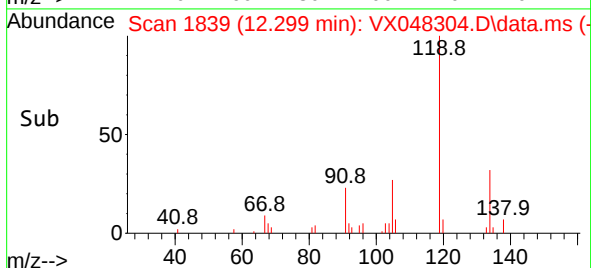
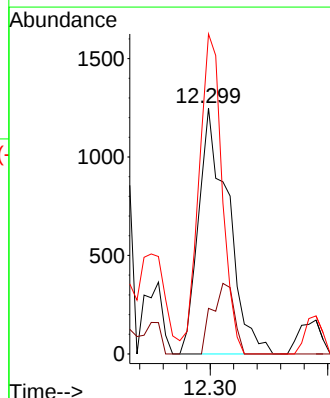
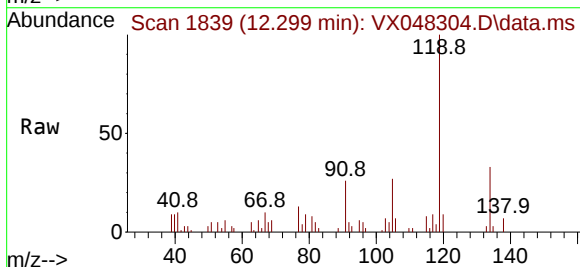
Tgt Ion: 91 Resp: 2189

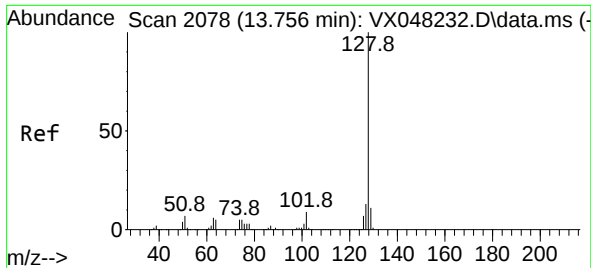
Ion Ratio Lower Upper

91 100

92 21.3 26.9 80.6#

134 101.3 12.7 38.1#





#95
Naphthalene
Concen: 1.229 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048304.D
Acq: 22 Oct 2025 17:13

Instrument :
MSVOA_X
ClientSampleId :
TWP2

Tgt Ion	Ratio	Lower	Upper
128	100		
127	17.7	10.2	15.4#
129	15.2	8.6	12.8#

