

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102325\
 Data File : VX048334.D
 Acq On : 23 Oct 2025 18:11
 Operator : JC/MD
 Sample : Q3427-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-8

Quant Time: Oct 24 05:51:17 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)

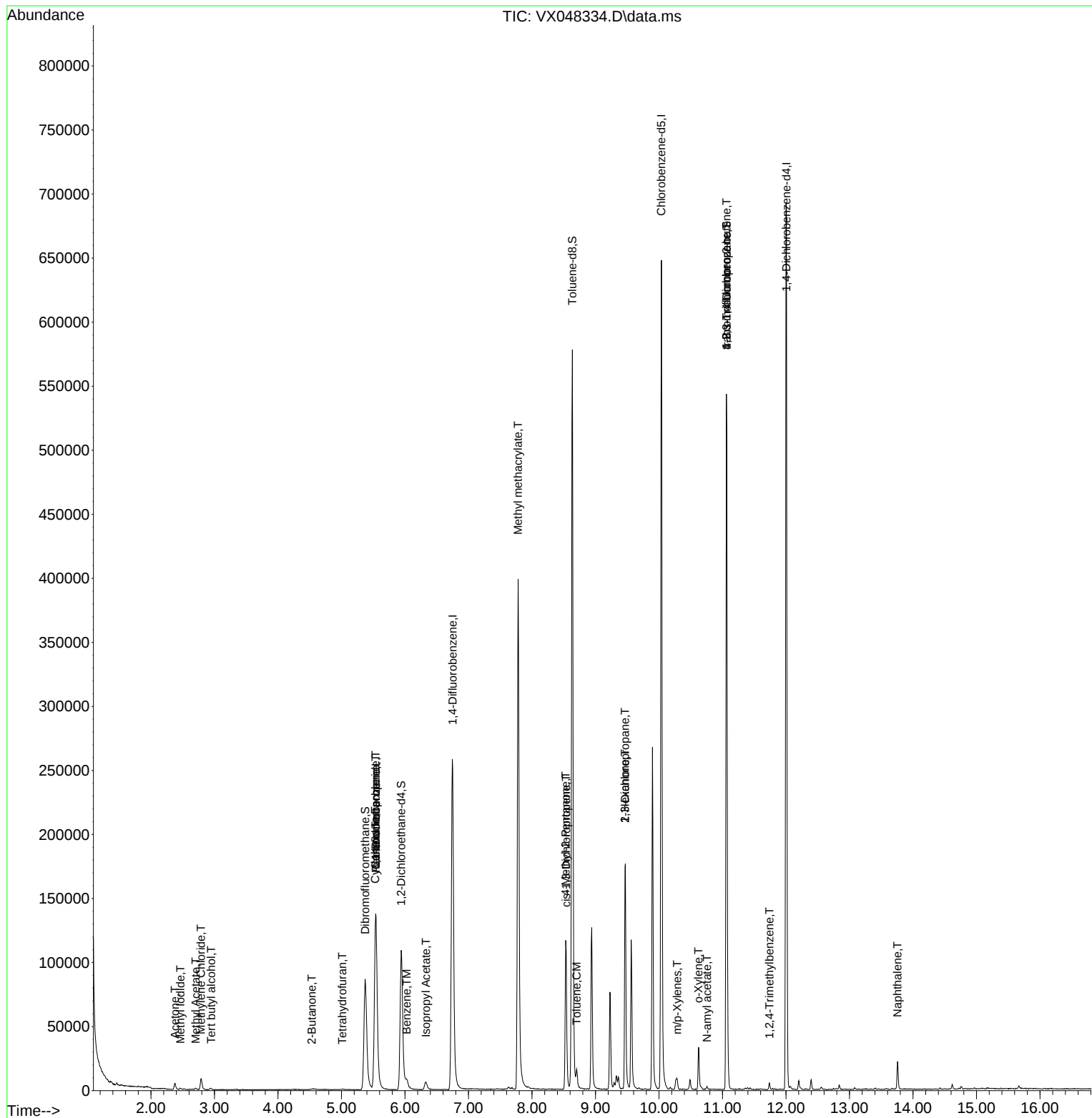
Internal Standards						
1) Pentafluorobenzene	5.544	168	137696	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	277031	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	288168	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	147061	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	120540	62.437	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 124.880%#			
35) Dibromofluoromethane	5.373	113	81198	42.933	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 85.860%			
50) Toluene-d8	8.635	98	348586	52.584	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 105.160%			
62) 4-Bromofluorobenzene	11.061	95	151065	59.901	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 119.800%			
Target Compounds					Qvalue	
10) Methyl Iodide	2.465	142	930	0.498	ug/l #	88
11) Tert butyl alcohol	2.947	59	82	0.428	ug/l #	72
16) Acetone	2.380	43	6158	9.298	ug/l	93
18) Methyl Acetate	2.703	43	1674	1.210	ug/l #	85
20) Methylene Chloride	2.788	84	4275	2.649	ug/l	95
25) 2-Butanone	4.532	43	175	0.209	ug/l #	50
29) Tetrahydrofuran	5.013	42	173	0.345	ug/l #	54
31) Cyclohexane	5.532	56	3374	1.408	ug/l #	8
36) 1,1-Dichloropropene	5.538	75	11728	4.363	ug/l #	49
38) Carbon Tetrachloride	5.538	117	14829	4.471	ug/l #	15
40) Benzene	6.025	78	6295	0.807	ug/l	97
43) Isopropyl Acetate	6.330	43	9947	2.718	ug/l	97
48) Methyl methacrylate	7.781	41	40413	21.883	ug/l #	47
51) 4-Methyl-2-Pentanone	8.531	43	43454	20.592	ug/l #	51
52) Toluene	8.702	92	4760	0.960	ug/l	96
54) cis-1,3-Dichloropropene	8.537	75	18606	5.733	ug/l #	63
57) 1,3-Dichloropropane	9.464	76	1484	0.471	ug/l #	43
59) 2-Hexanone	9.464	43	23433	15.926	ug/l #	52
68) m/p-Xylenes	10.287	106	1738	0.424	ug/l	93
69) o-Xylene	10.622	106	1452	0.367	ug/l	85
74) N-amyl acetate	10.756	43	1994	0.523	ug/l #	45
76) 1,2,3-Trichloropropane	11.061	75	82726	34.688	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	82726	84.394	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.738	105	1839	0.207	ug/l	99
95) Naphthalene	13.756	128	13579	1.590	ug/l	98

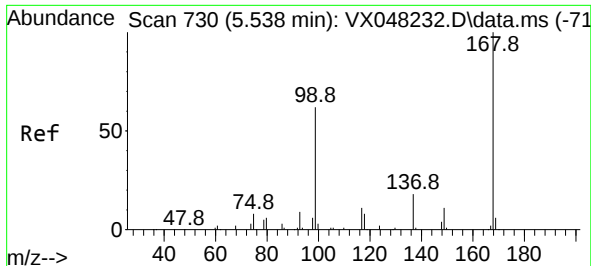
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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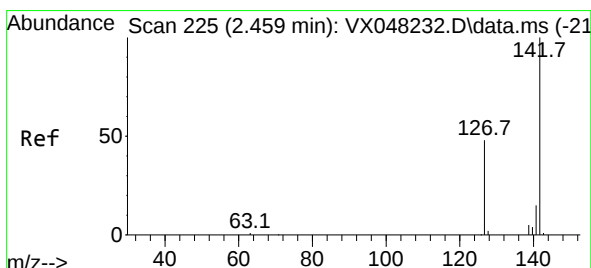
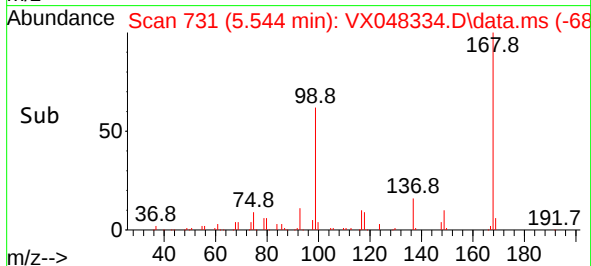
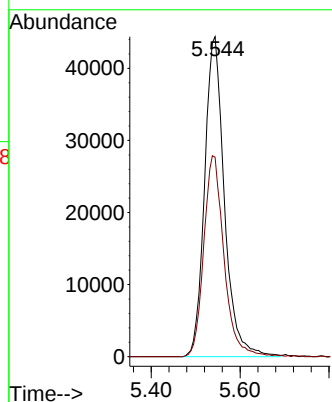
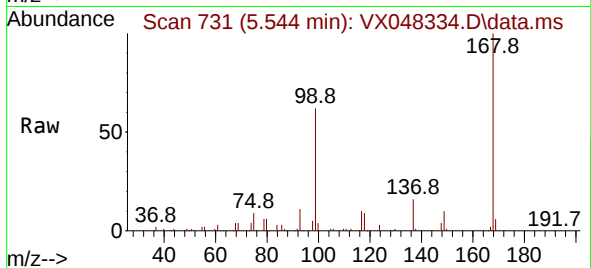




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

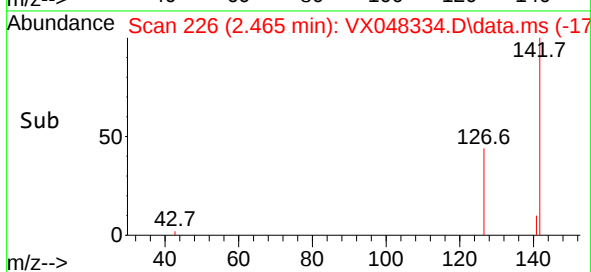
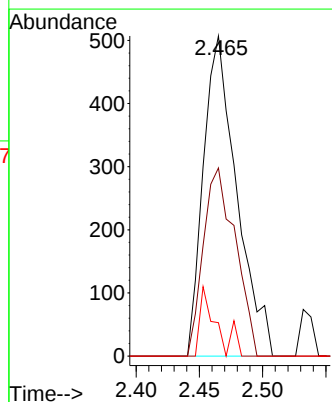
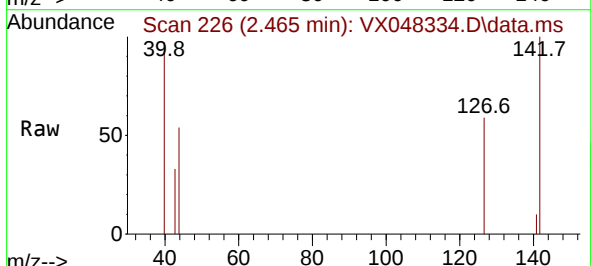
Instrument :
MSVOA_X
ClientSampleId :
TP-8

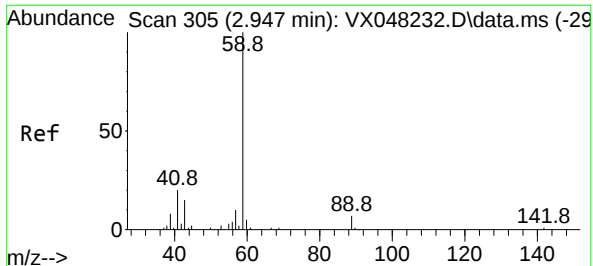
Tgt Ion:168 Resp: 137696
Ion Ratio Lower Upper
168 100
99 62.4 46.4 69.6



#10
Methyl Iodide
Concen: 0.498 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion:142 Resp: 930
Ion Ratio Lower Upper
142 100
127 56.5 38.5 57.7
141 10.8 11.6 17.4#





#11

Tert butyl alcohol

Concen: 0.428 ug/l

RT: 2.947 min Scan# 305

Delta R.T. 0.006 min

Lab File: VX048334.D

Acq: 23 Oct 2025 18:11

Instrument :

MSVOA_X

ClientSampleId :

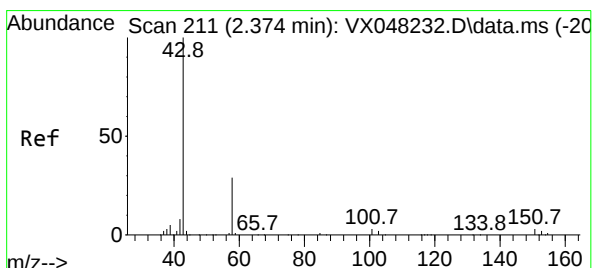
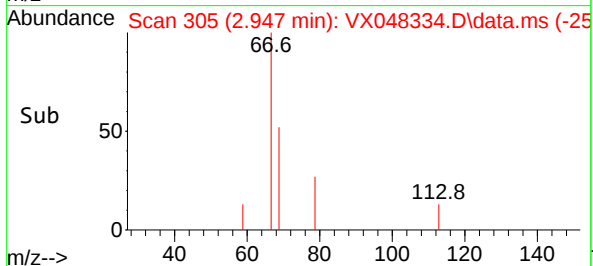
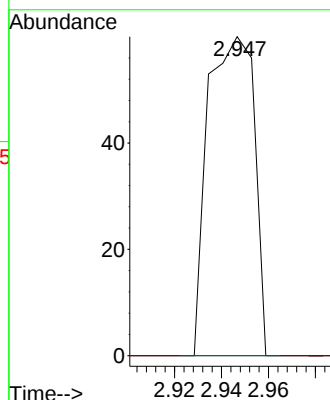
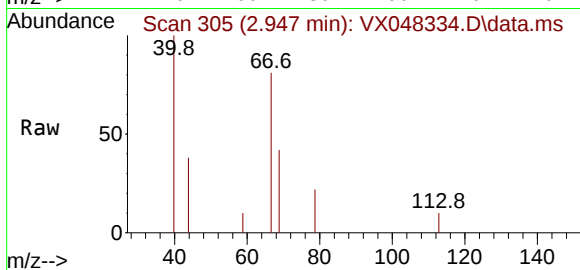
TP-8

Tgt Ion: 59 Resp: 82

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 9.298 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX048334.D

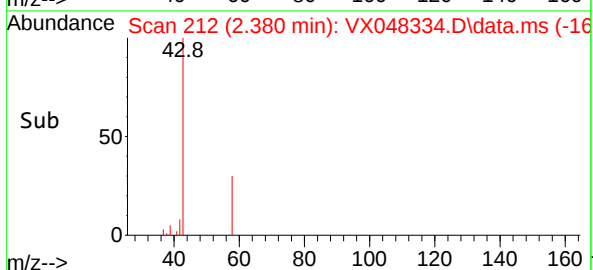
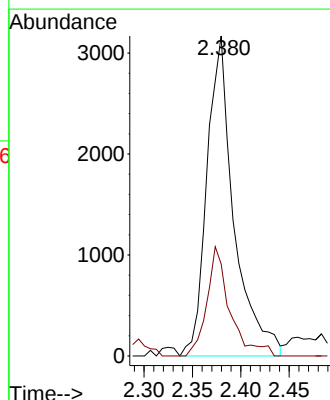
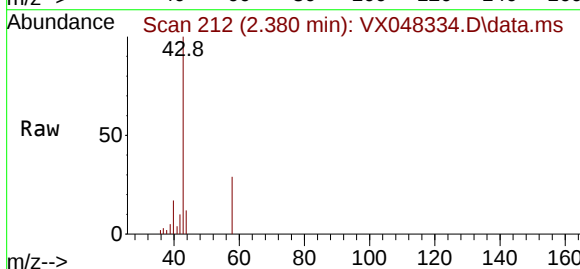
Acq: 23 Oct 2025 18:11

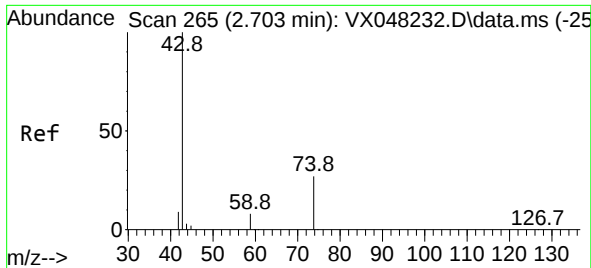
Tgt Ion: 43 Resp: 6158

Ion Ratio Lower Upper

43 100

58 25.7 23.4 35.2

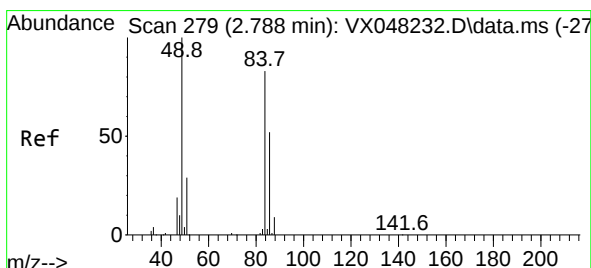
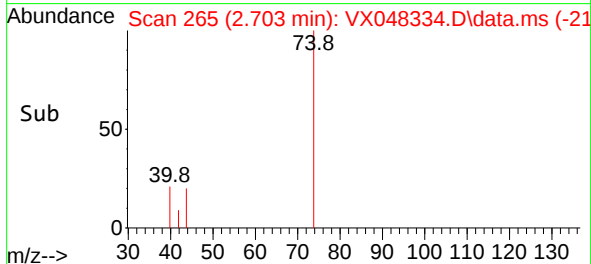
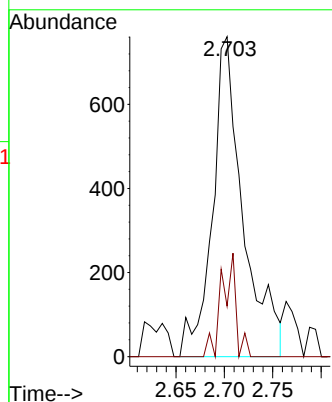
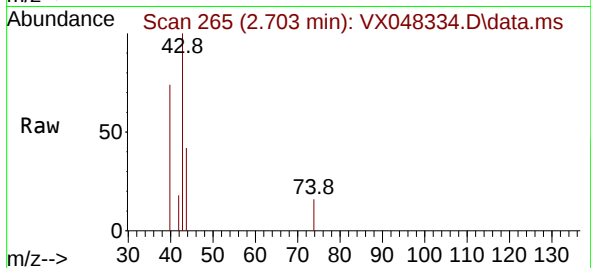




#18
Methyl Acetate
Concen: 1.210 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

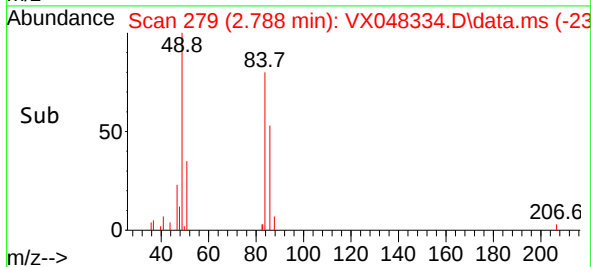
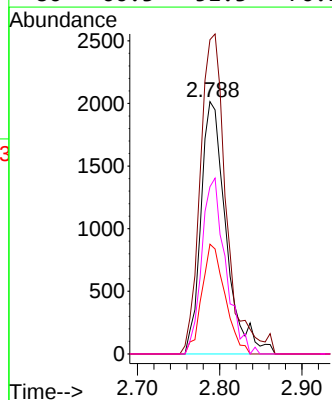
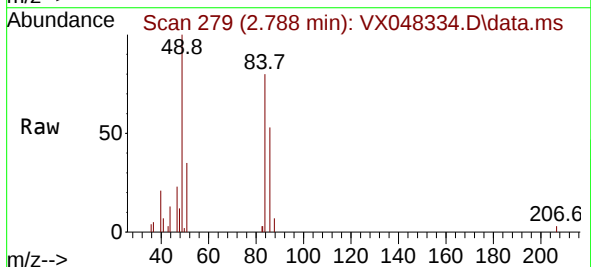
Instrument :
MSVOA_X
ClientSampleId :
TP-8

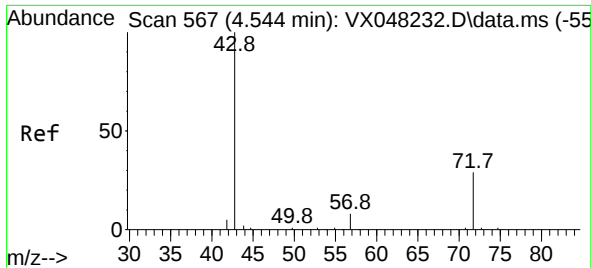
Tgt Ion: 43 Resp: 1674
Ion Ratio Lower Upper
43 100
74 15.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.649 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion: 84 Resp: 4275
Ion Ratio Lower Upper
84 100
49 124.5 104.1 156.1
51 43.5 31.3 46.9
86 66.3 51.3 76.9

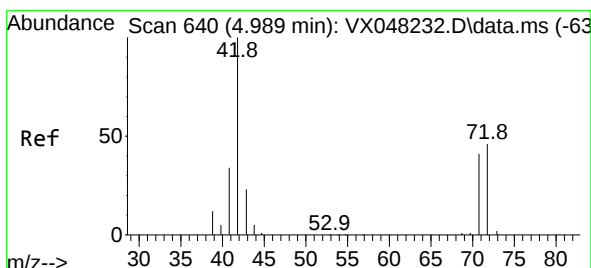
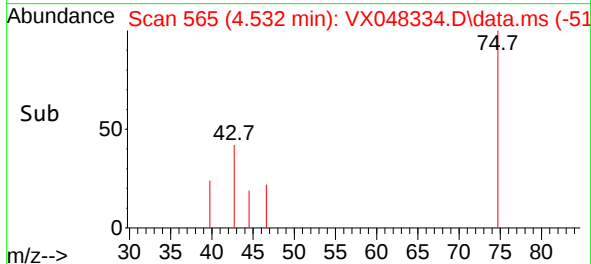
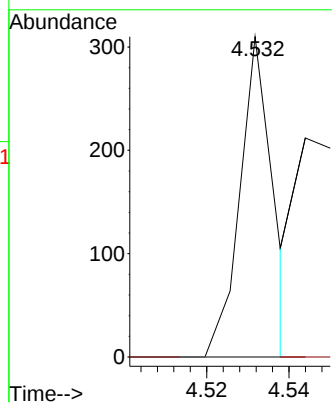
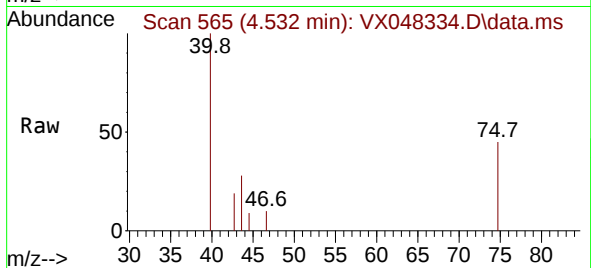




#25
2-Butanone
Concen: 0.209 ug/l
RT: 4.532 min Scan# 50
Delta R.T. -0.006 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

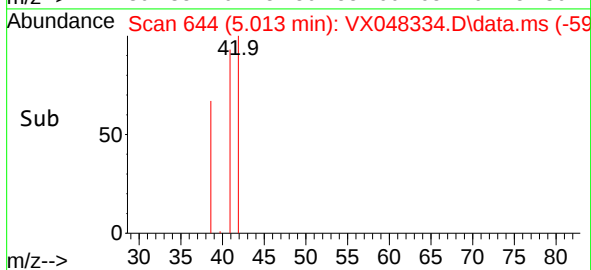
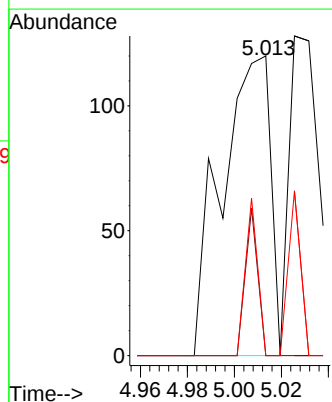
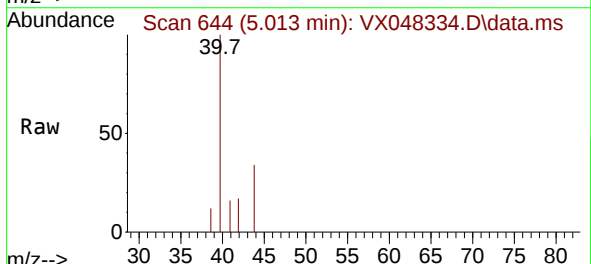
Instrument :
MSVOA_X
ClientSampleId :
TP-8

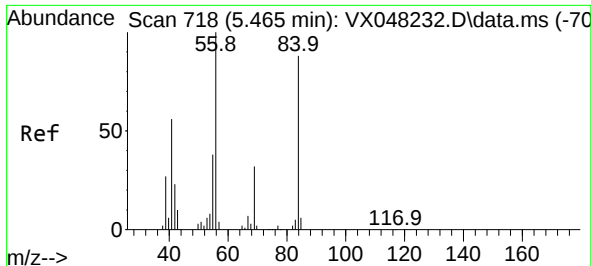
Tgt Ion: 43 Resp: 175
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#29
Tetrahydrofuran
Concen: 0.345 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.024 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion: 42 Resp: 173
Ion Ratio Lower Upper
42 100
72 12.7 35.3 52.9#
71 13.3 32.2 48.4#

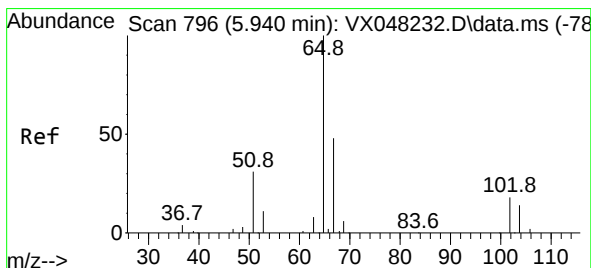
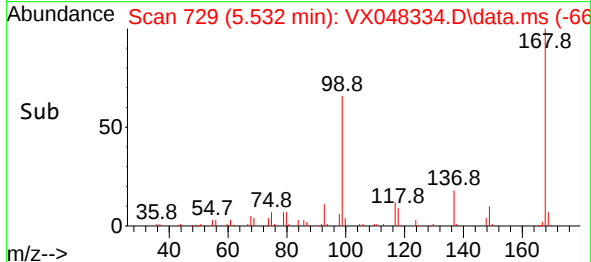
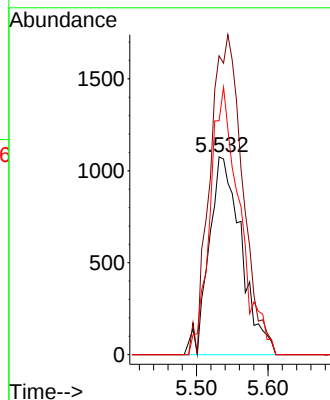
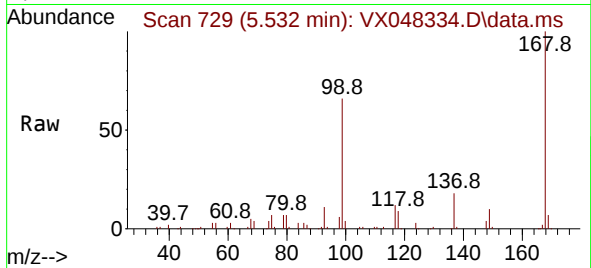




#31
Cyclohexane
Concen: 1.408 ug/l
RT: 5.532 min Scan# 718
Delta R.T. 0.073 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

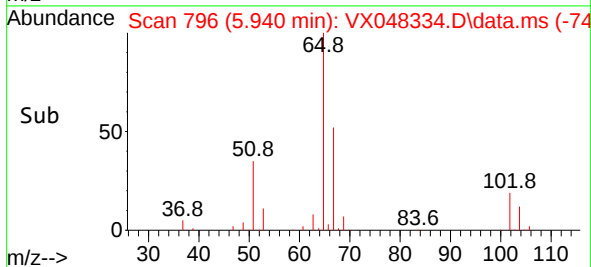
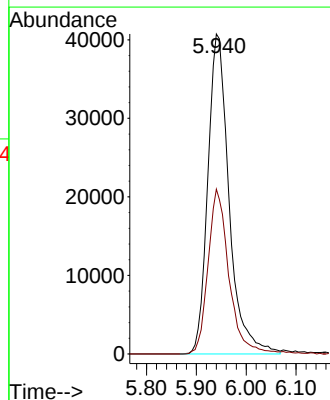
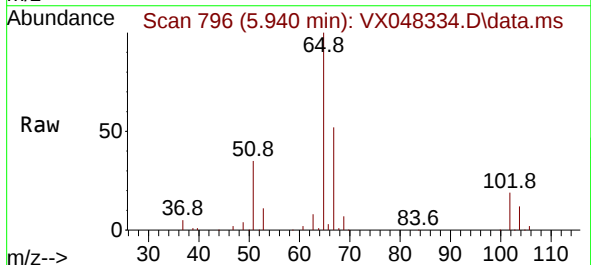
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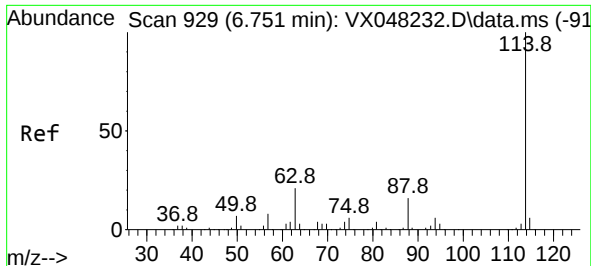
Tgt Ion: 56 Resp: 3374
Ion Ratio Lower Upper
56 100
69 151.2 23.0 34.6#
84 118.3 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 62.437 ug/l
RT: 5.940 min Scan# 796
Delta R.T. 0.000 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion: 65 Resp: 120540
Ion Ratio Lower Upper
65 100
67 51.1 0.0 105.0

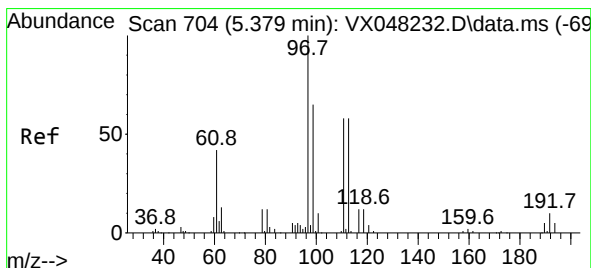
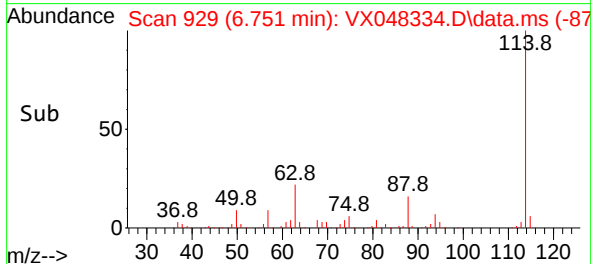
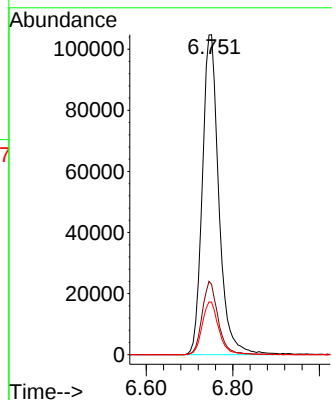
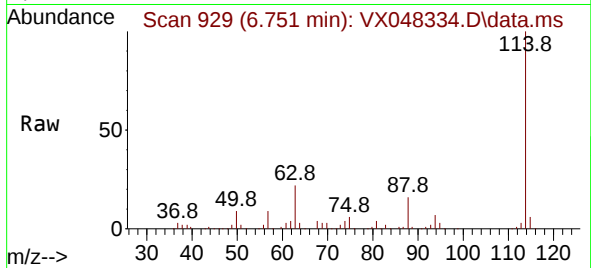




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

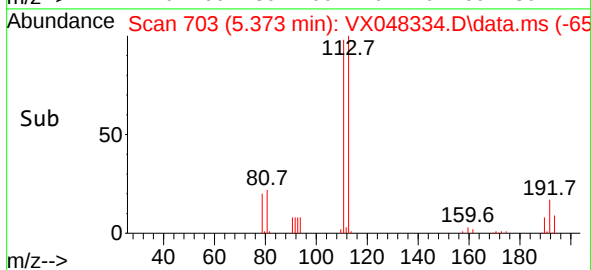
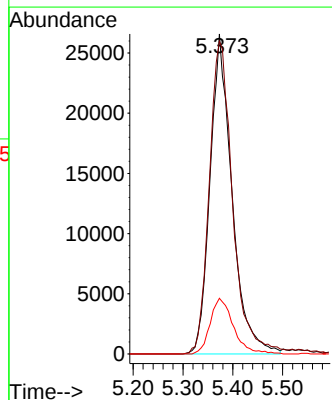
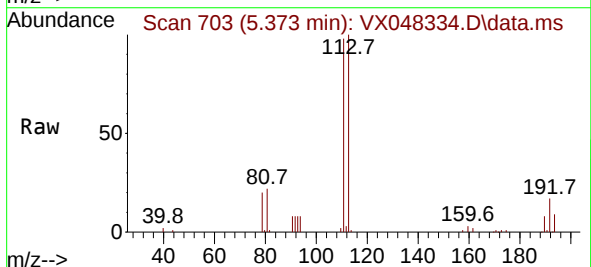
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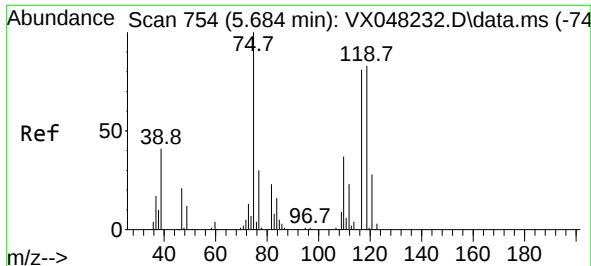
Tgt Ion:114 Resp: 277031
Ion Ratio Lower Upper
114 100
63 22.0 0.0 43.2
88 16.4 0.0 33.6



#35
Dibromofluoromethane
Concen: 42.933 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion:113 Resp: 81198
Ion Ratio Lower Upper
113 100
111 103.9 82.2 123.4
192 18.5 15.1 22.7

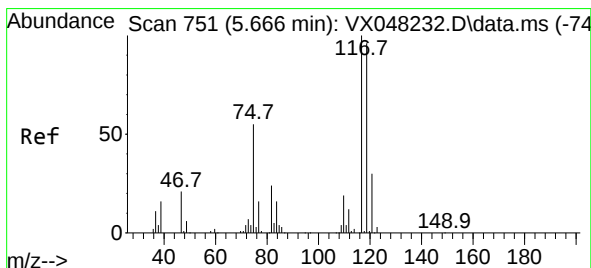
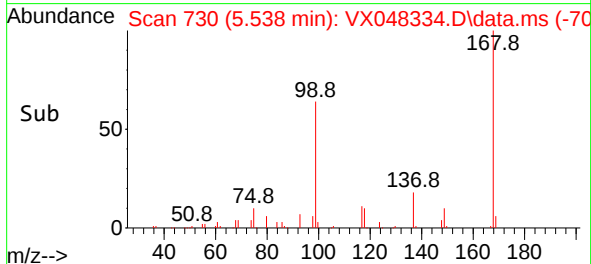
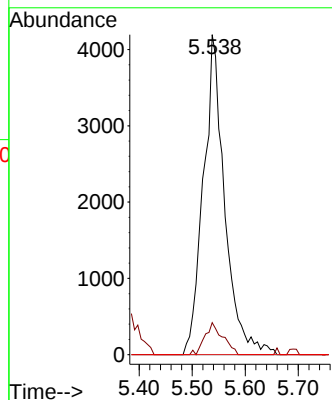
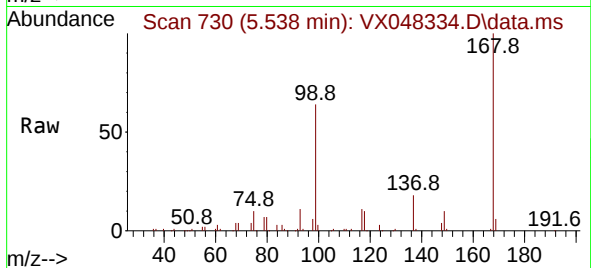




#36
1,1-Dichloropropene
Concen: 4.363 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

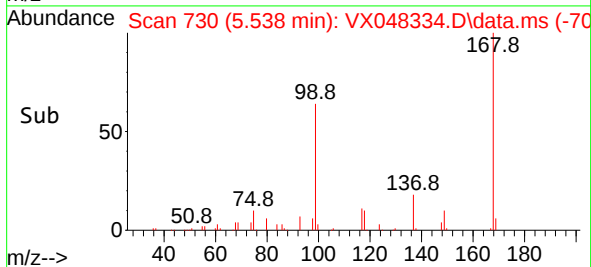
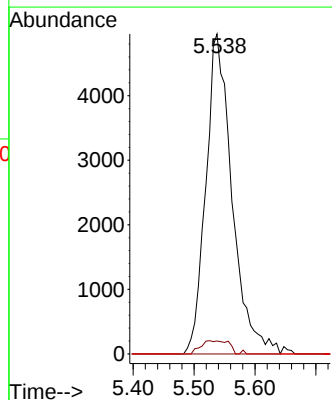
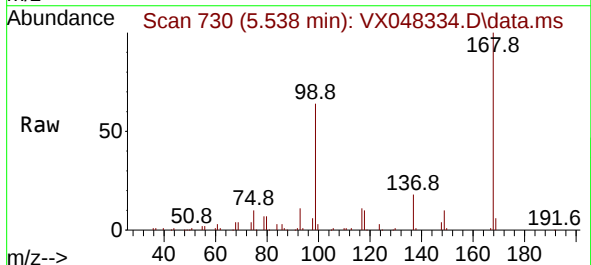
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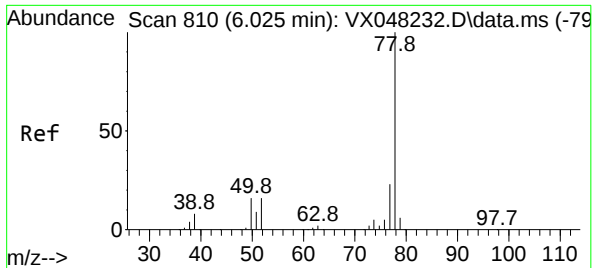
Tgt Ion: 75 Resp: 11728
Ion Ratio Lower Upper
75 100
110 8.4 17.7 53.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 4.471 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.128 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion: 117 Resp: 14829
Ion Ratio Lower Upper
117 100
119 4.0 77.2 115.8#
121 0.0 24.8 37.2#





#40

Benzene

Concen: 0.807 ug/l

RT: 6.025 min Scan# 810

Delta R.T. 0.000 min

Lab File: VX048334.D

Acq: 23 Oct 2025 18:11

Instrument :

MSVOA_X

ClientSampleId :

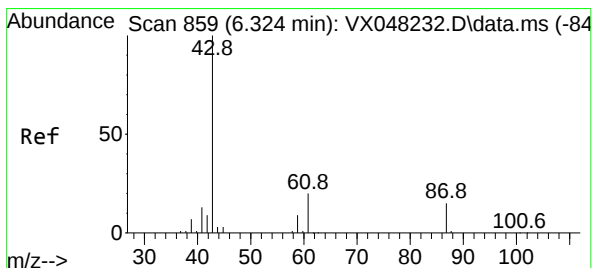
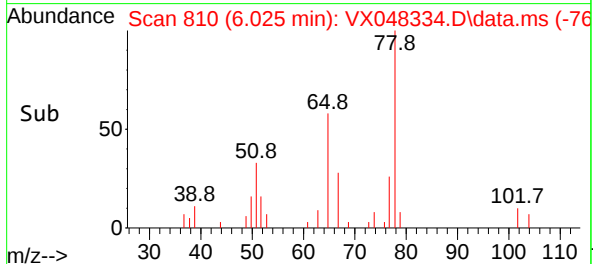
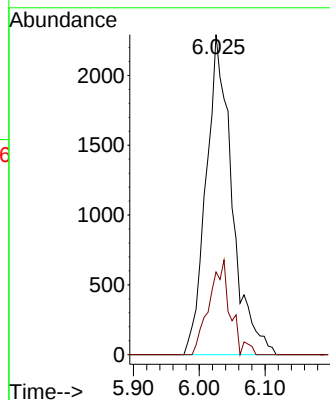
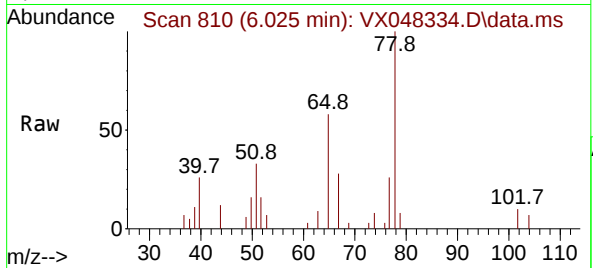
TP-8

Tgt Ion: 78 Resp: 6295

Ion Ratio Lower Upper

78 100

77 25.8 19.3 28.9



#43

Isopropyl Acetate

Concen: 2.718 ug/l

RT: 6.330 min Scan# 860

Delta R.T. 0.006 min

Lab File: VX048334.D

Acq: 23 Oct 2025 18:11

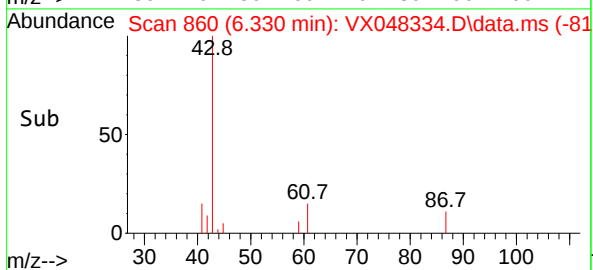
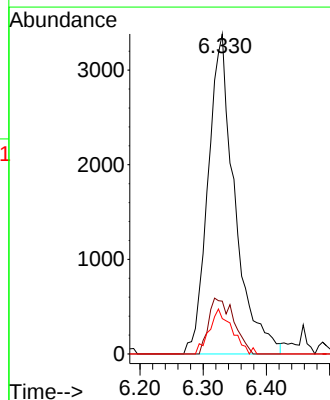
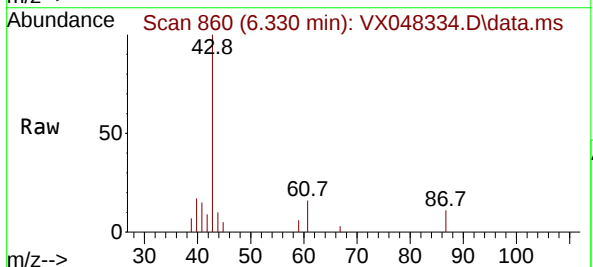
Tgt Ion: 43 Resp: 9947

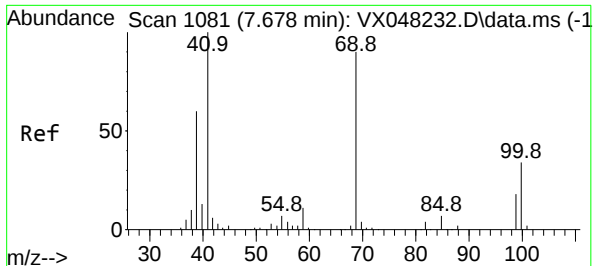
Ion Ratio Lower Upper

43 100

61 16.3 14.9 22.3

87 11.9 9.4 14.2

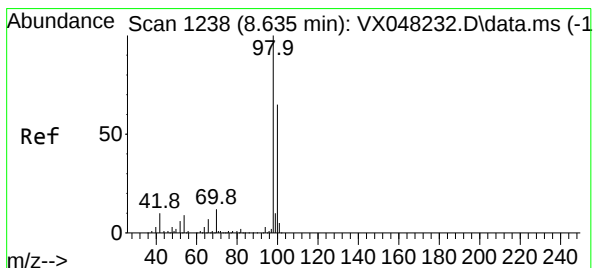
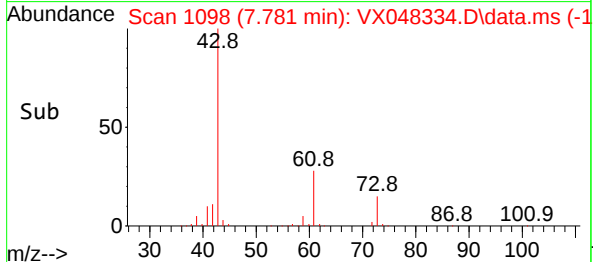
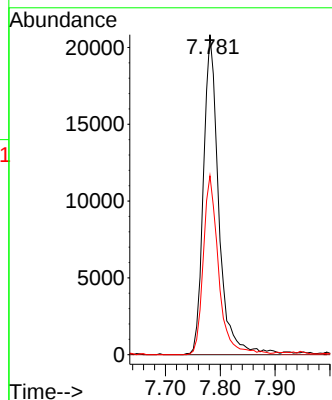
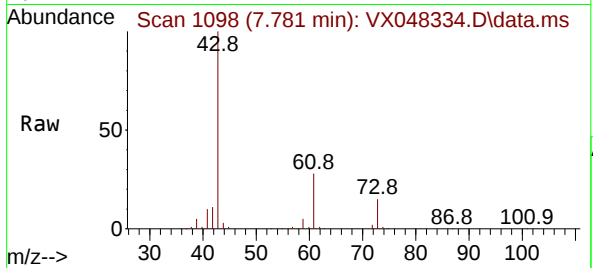




#48
Methyl methacrylate
Concen: 21.883 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

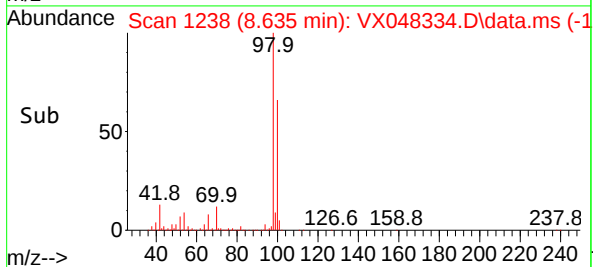
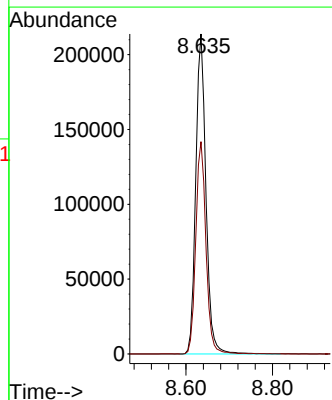
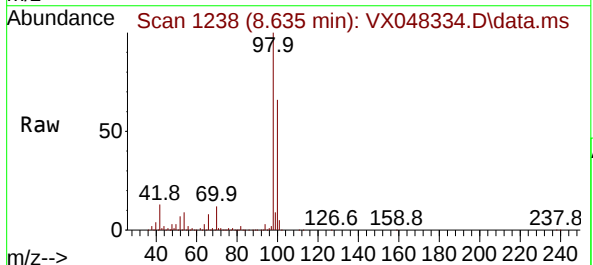
Instrument :
MSVOA_X
ClientSampleId :
TP-8

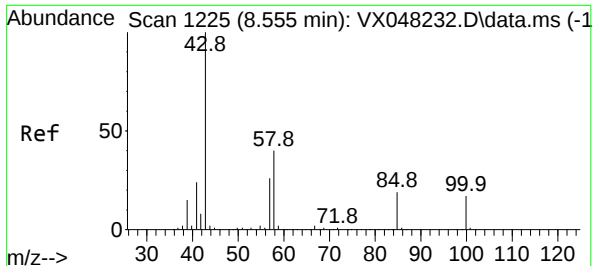
Tgt Ion: 41 Resp: 40413
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.0#
39 56.0 47.1 70.7



#50
Toluene-d8
Concen: 52.584 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion: 98 Resp: 348586
Ion Ratio Lower Upper
98 100
100 66.6 53.0 79.4

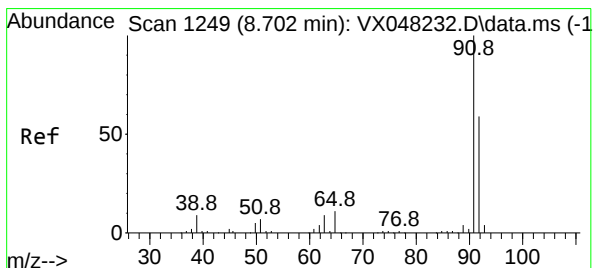
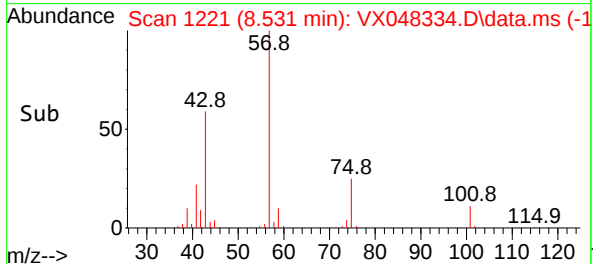
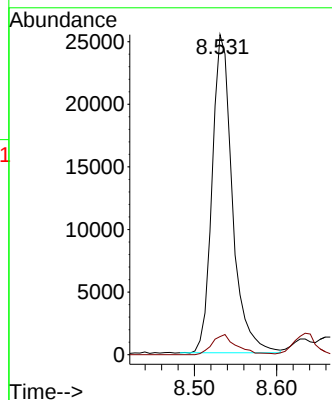
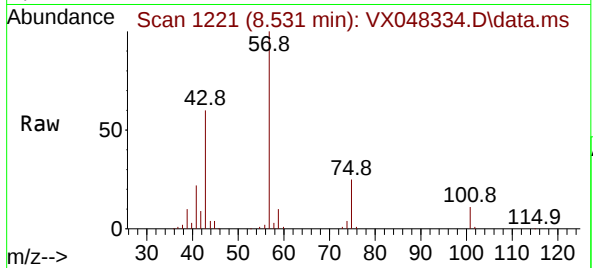




#51
4-Methyl-2-Pentanone
Concen: 20.592 ug/l
RT: 8.531 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

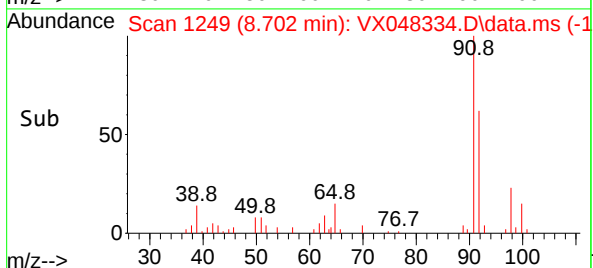
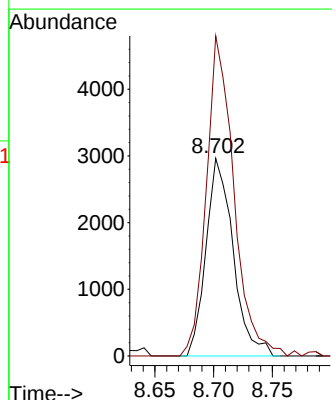
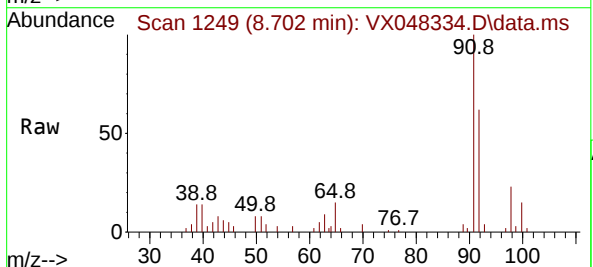
Instrument :
MSVOA_X
ClientSampleId :
TP-8

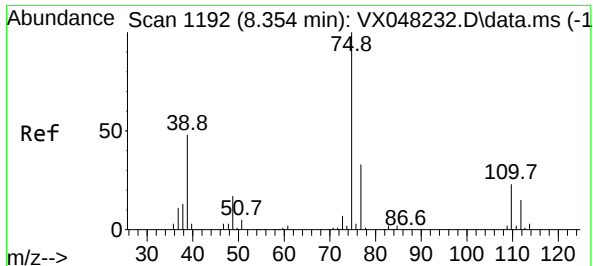
Tgt Ion: 43 Resp: 43454
Ion Ratio Lower Upper
43 100
58 7.6 29.5 44.3#



#52
Toluene
Concen: 0.960 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion: 92 Resp: 4760
Ion Ratio Lower Upper
92 100
91 164.7 136.1 204.1

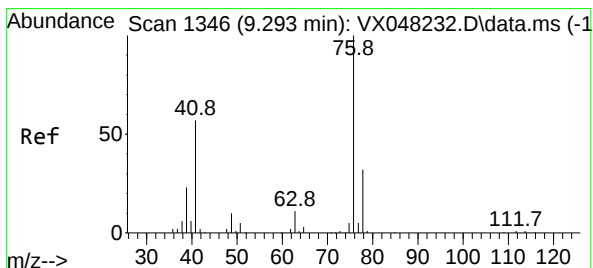
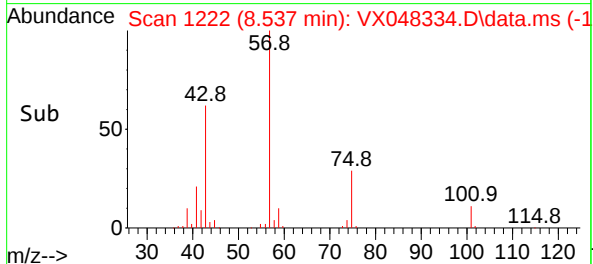
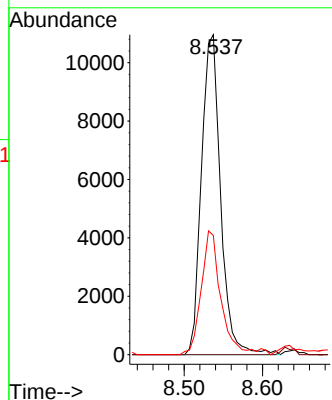
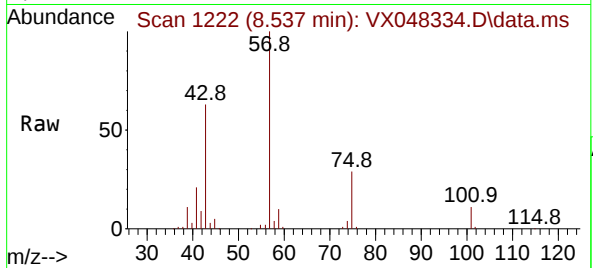




#54
 cis-1,3-Dichloropropene
 Concen: 5.733 ug/l
 RT: 8.537 min Scan# 1192
 Delta R.T. 0.189 min
 Lab File: VX048334.D
 Acq: 23 Oct 2025 18:11

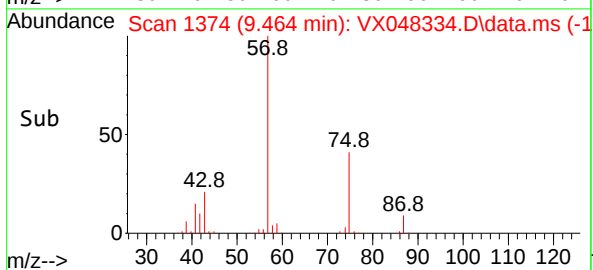
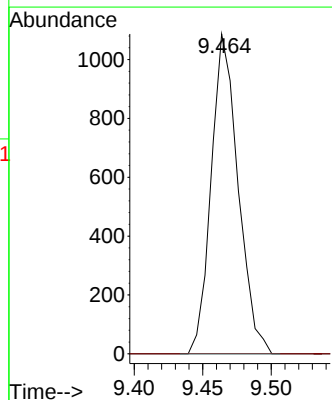
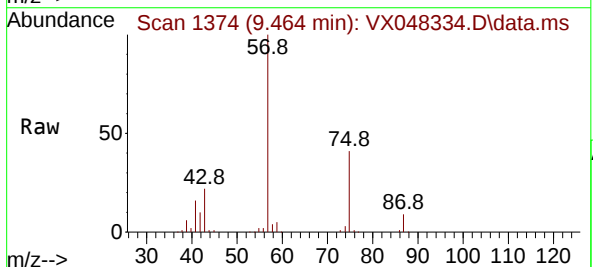
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-8

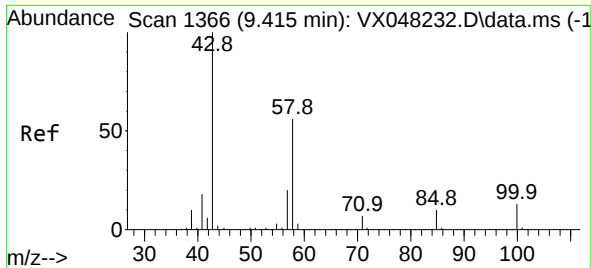
Tgt Ion: 75 Resp: 18606
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.9 37.3#
 39 35.5 42.6 64.0#



#57
 1,3-Dichloropropane
 Concen: 0.471 ug/l
 RT: 9.464 min Scan# 1374
 Delta R.T. 0.171 min
 Lab File: VX048334.D
 Acq: 23 Oct 2025 18:11

Tgt Ion: 76 Resp: 1484
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#

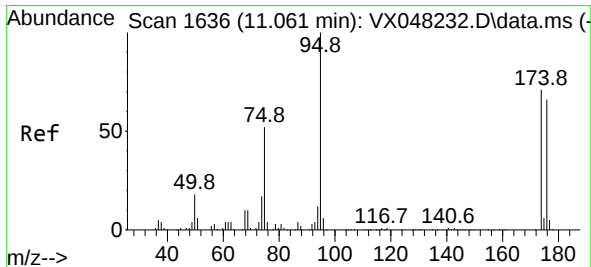
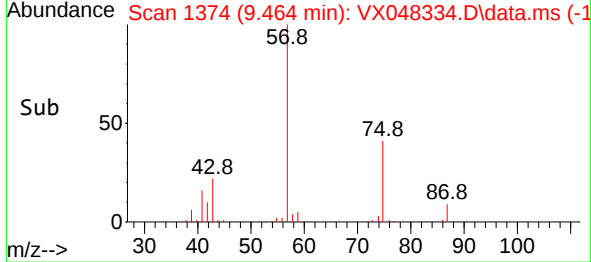
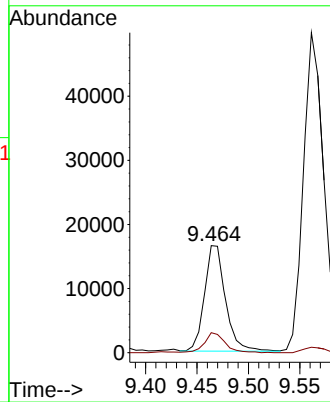
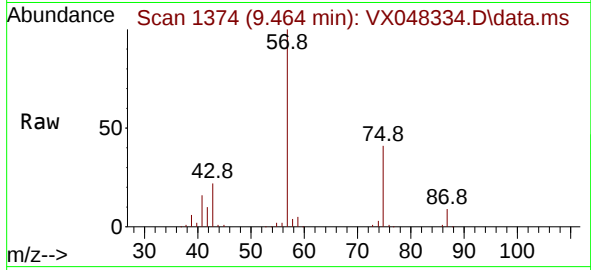




#59
2-Hexanone
Concen: 15.926 ug/l
RT: 9.464 min Scan# 11
Delta R.T. 0.049 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

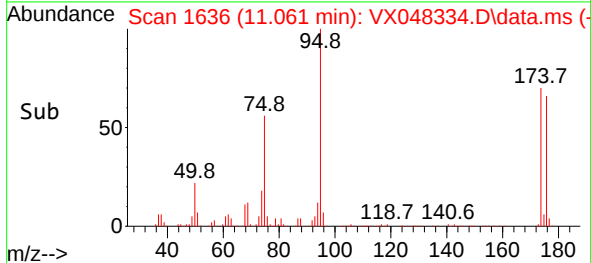
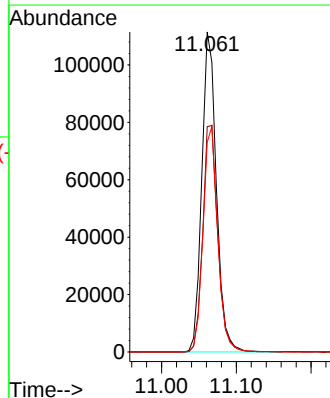
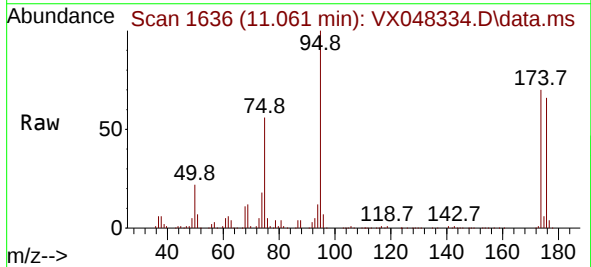
Instrument :
MSVOA_X
ClientSampleId :
TP-8

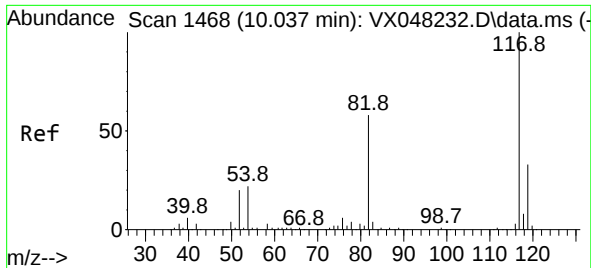
Tgt Ion: 43 Resp: 23433
Ion Ratio Lower Upper
43 100
58 18.7 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 59.901 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion: 95 Resp: 151065
Ion Ratio Lower Upper
95 100
174 72.8 0.0 147.8
176 70.8 0.0 142.8

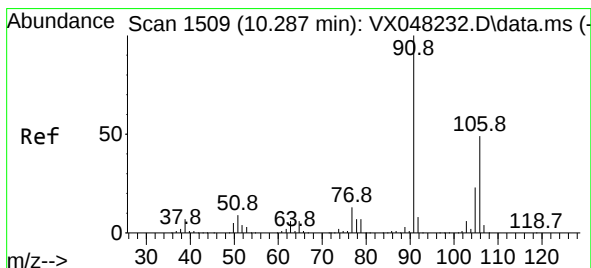
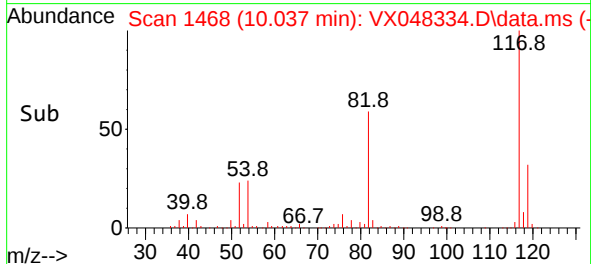
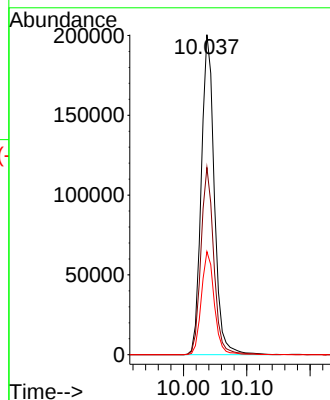
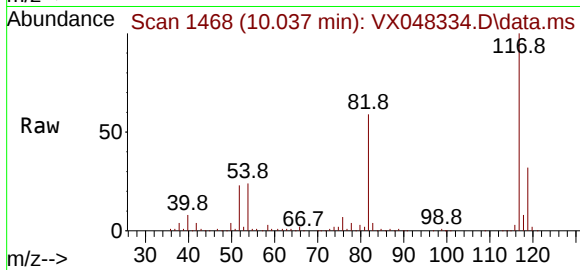




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

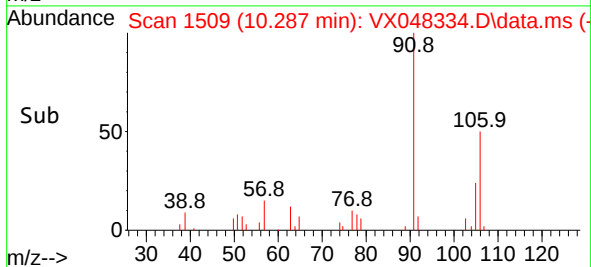
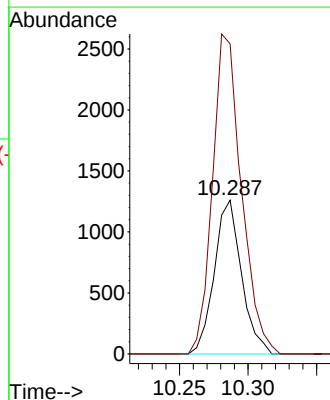
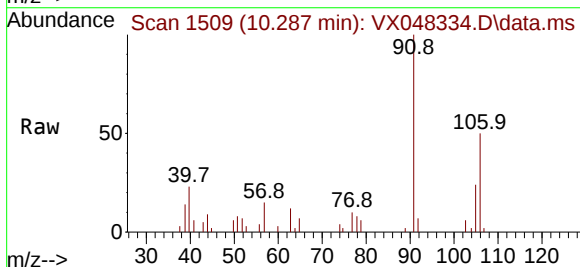
Instrument :
MSVOA_X
ClientSampleId :
TP-8

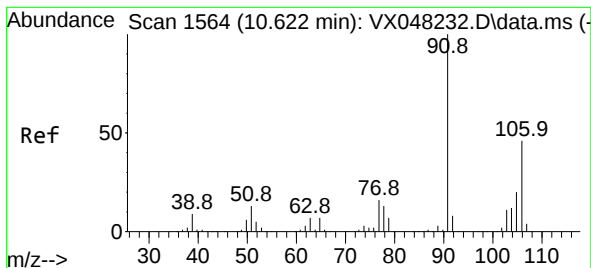
Tgt Ion:117 Resp: 288168
Ion Ratio Lower Upper
117 100
82 58.5 46.5 69.7
119 32.2 25.9 38.9



#68
m/p-Xylenes
Concen: 0.424 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion:106 Resp: 1738
Ion Ratio Lower Upper
106 100
91 220.8 167.9 251.9





#69

o-Xylene

Concen: 0.367 ug/l

RT: 10.622 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX048334.D

Acq: 23 Oct 2025 18:11

Instrument :

MSVOA_X

ClientSampleId :

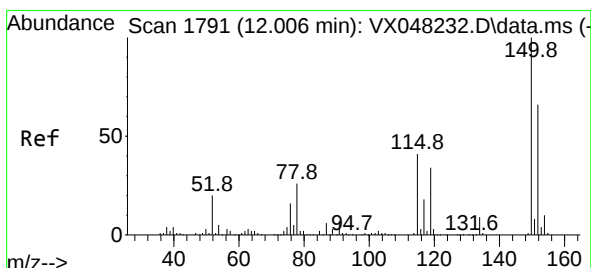
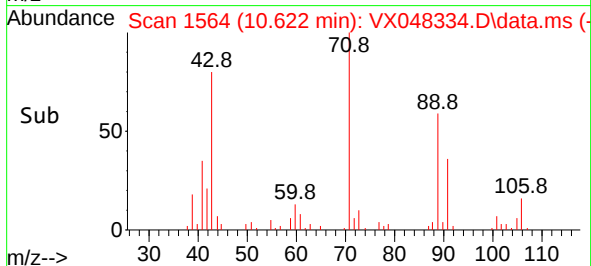
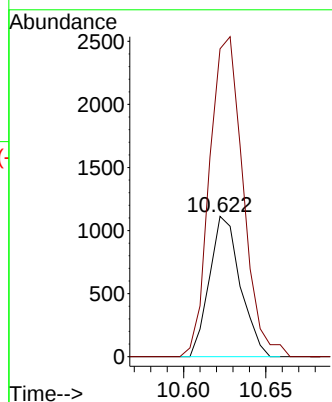
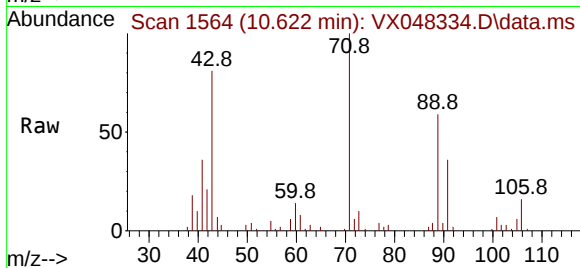
TP-8

Tgt Ion:106 Resp: 1452

Ion Ratio Lower Upper

106 100

91 247.4 111.3 333.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX048334.D

Acq: 23 Oct 2025 18:11

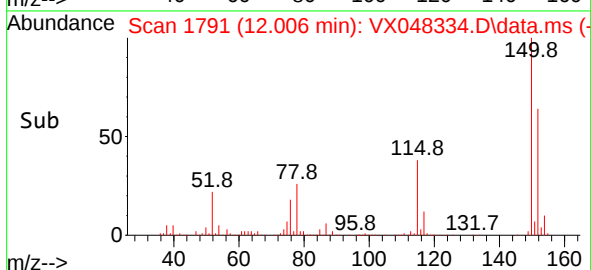
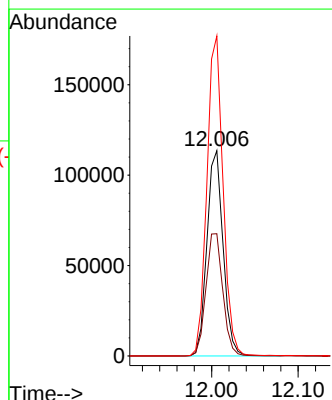
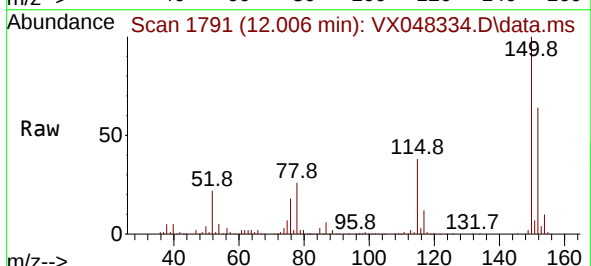
Tgt Ion:152 Resp: 147061

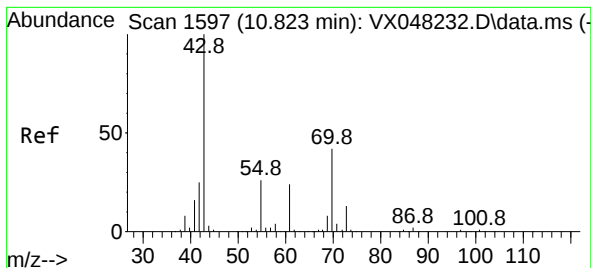
Ion Ratio Lower Upper

152 100

115 62.3 43.1 129.4

150 155.8 0.0 353.0





#74

N-amy1 acetate

Concen: 0.523 ug/l

RT: 10.756 min Scan# 1

Delta R.T. -0.067 min

Lab File: VX048334.D

Acq: 23 Oct 2025 18:11

Instrument :

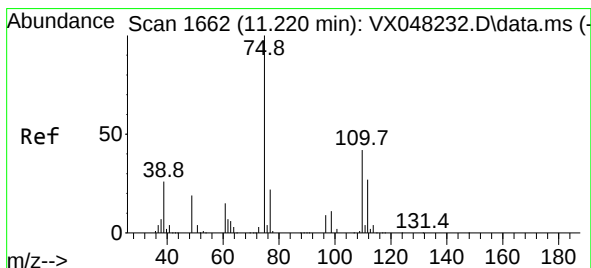
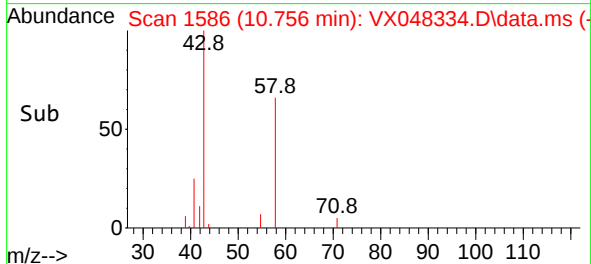
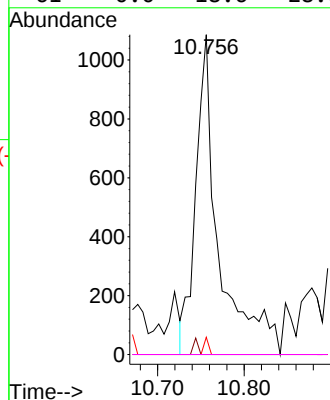
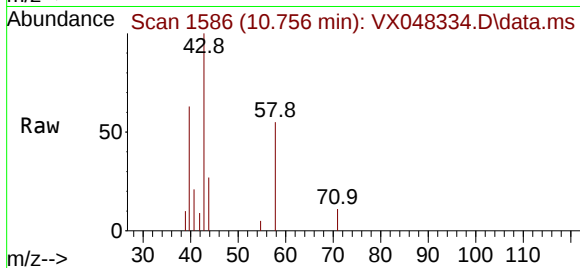
MSVOA_X

ClientSampleId :

TP-8

Tgt Ion: 43 Resp: 1994

Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.2	48.2#
55	1.1	19.1	28.7#
61	0.0	18.6	28.0#



#76

1,2,3-Trichloropropane

Concen: 34.688 ug/l

RT: 11.061 min Scan# 1636

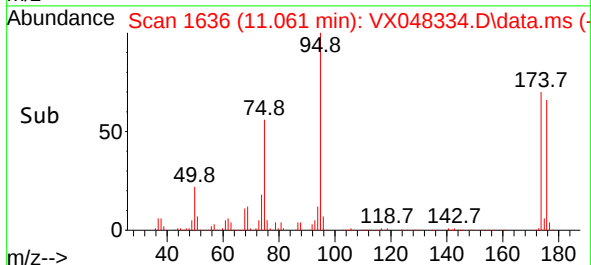
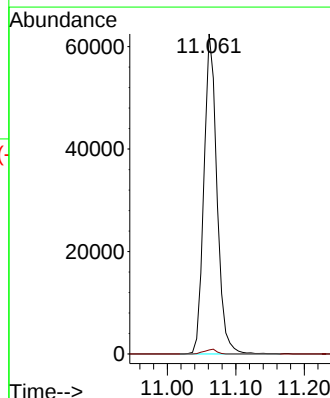
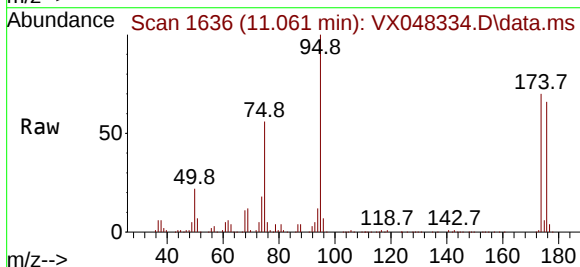
Delta R.T. -0.158 min

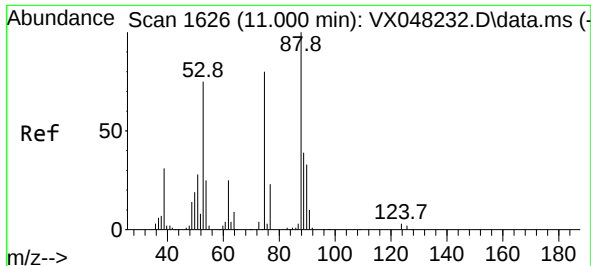
Lab File: VX048334.D

Acq: 23 Oct 2025 18:11

Tgt Ion: 75 Resp: 82726

Ion	Ratio	Lower	Upper
75	100		
77	1.4	22.4	67.2#

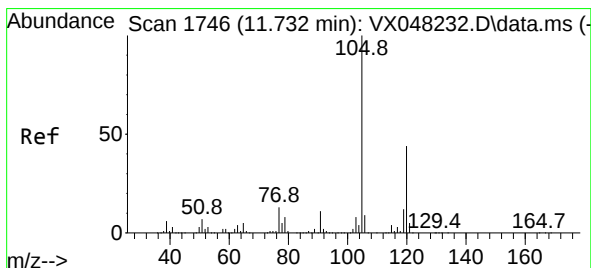
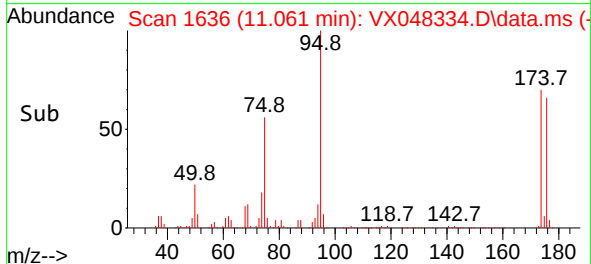
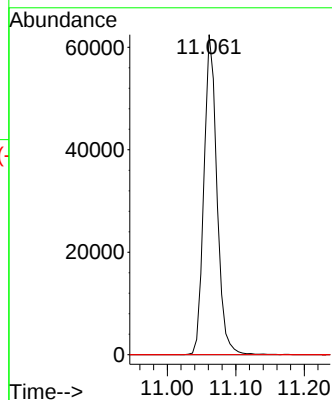
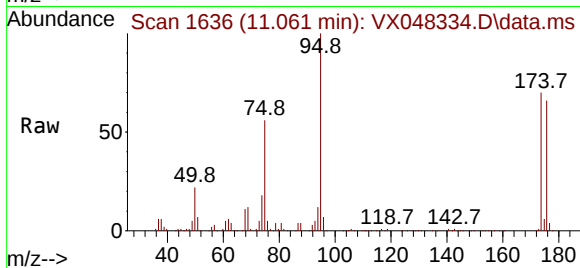




#81
trans-1,4-Dichloro-2-butene
Concen: 84.394 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

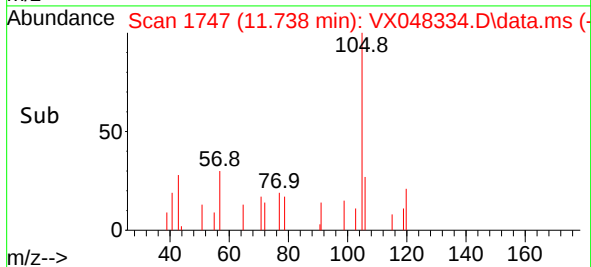
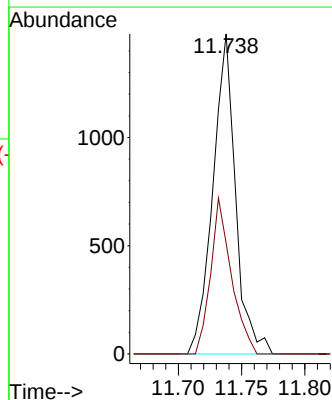
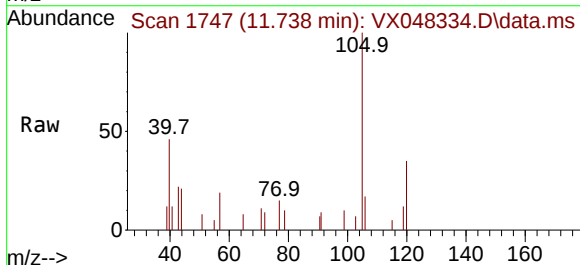
Instrument :
MSVOA_X
ClientSampleId :
TP-8

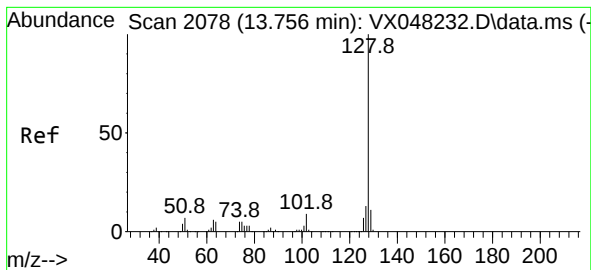
Tgt Ion: 75 Resp: 82726
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#84
1,2,4-Trimethylbenzene
Concen: 0.207 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX048334.D
Acq: 23 Oct 2025 18:11

Tgt Ion:105 Resp: 1839
Ion Ratio Lower Upper
105 100
120 44.8 22.1 66.5





#95

Naphthalene

Concen: 1.590 ug/l

RT: 13.756 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX048334.D

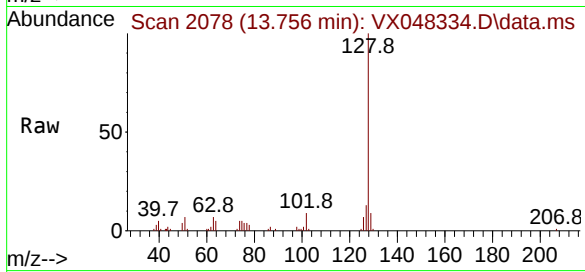
Acq: 23 Oct 2025 18:11

Instrument :

MSVOA_X

ClientSampleId :

TP-8



Tgt Ion:128 Resp: 13579

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

129 9.6 8.6 12.8

