

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102225\
 Data File : VX048287.D
 Acq On : 22 Oct 2025 11:20
 Operator : JC/MD
 Sample : Q3397-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-7-WC

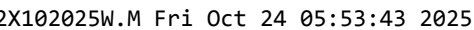
Quant Time: Oct 24 05:53:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	98720	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	204985	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	206864	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	109910	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	71819	51.888	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	103.780%
35) Dibromofluoromethane	5.373	113	60367	43.137	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	86.280%
50) Toluene-d8	8.634	98	220314	44.915	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	89.840%#
62) 4-Bromofluorobenzene	11.061	95	97344	52.166	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	104.340%
Target Compounds						
						Qvalue
10) Methyl Iodide	2.459	142	38915	29.057	ug/l #	89
11) Tert butyl alcohol	2.928	59	157	1.142	ug/l #	72
13) Acrolein	2.264	56	473	3.375	ug/l #	15
16) Acetone	2.398	43	16892	35.575	ug/l	94
17) Carbon Disulfide	2.514	76	4685	1.434	ug/l #	91
18) Methyl Acetate	2.544	43	139361	140.535	ug/l #	54
20) Methylene Chloride	2.788	84	2240	1.936	ug/l	91
25) 2-Butanone	4.562	43	976	1.624	ug/l	98
29) Tetrahydrofuran	4.971	42	219	0.608	ug/l #	33
31) Cyclohexane	5.531	56	1919	1.117	ug/l #	17
36) 1,1-Dichloropropene	5.531	75	7950	3.997	ug/l #	49
38) Carbon Tetrachloride	5.531	117	10017	4.082	ug/l #	16
43) Isopropyl Acetate	6.330	43	8814	3.255	ug/l	96
48) Methyl methacrylate	7.787	41	31746	23.231	ug/l #	45
49) 1,4-Dioxane	7.677	88	73	4.043	ug/l #	1
51) 4-Methyl-2-Pentanone	8.537	43	37804	24.212	ug/l #	52
54) cis-1,3-Dichloropropene	8.537	75	18665	7.773	ug/l #	55
57) 1,3-Dichloropropane	9.470	76	1624	0.697	ug/l #	43
59) 2-Hexanone	9.470	43	21369	19.627	ug/l #	50
74) N-amyl acetate	10.841	43	1088	0.382	ug/l #	72
76) 1,2,3-Trichloropropane	11.061	75	48586	27.259	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	48586	66.320	ug/l #	10
94) Hexachlorobutadiene	13.707	225	257	0.351	ug/l	99

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

Quant Time: Oct 24 05:53:34 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

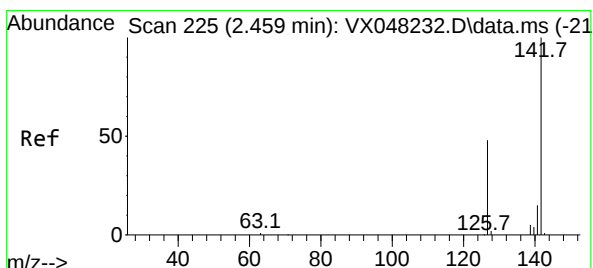
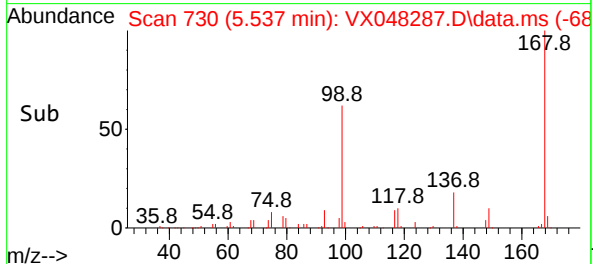
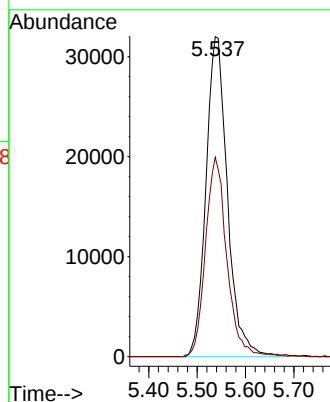
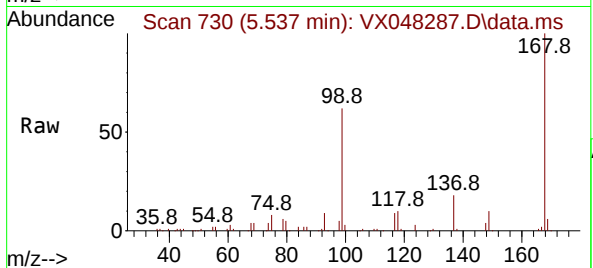




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

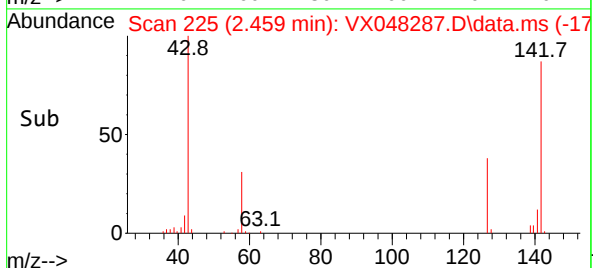
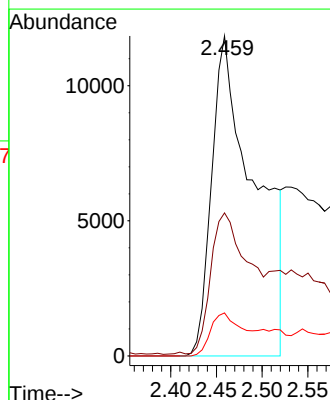
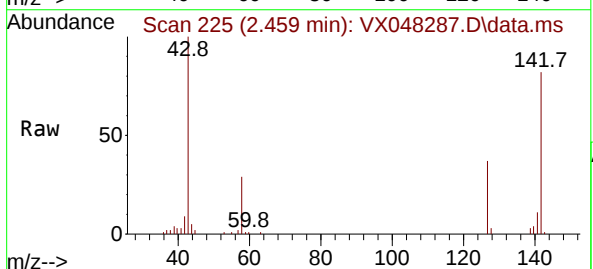
Instrument :
MSVOA_X
ClientSampleId :
TP-7-WC

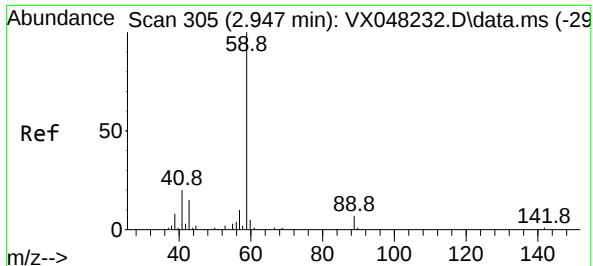
Tgt Ion:168 Resp: 98720
Ion Ratio Lower Upper
168 100
99 62.3 46.4 69.6



#10
Methyl Iodide
Concen: 29.057 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion:142 Resp: 38915
Ion Ratio Lower Upper
142 100
127 40.3 38.5 57.7
141 10.0 11.6 17.4#

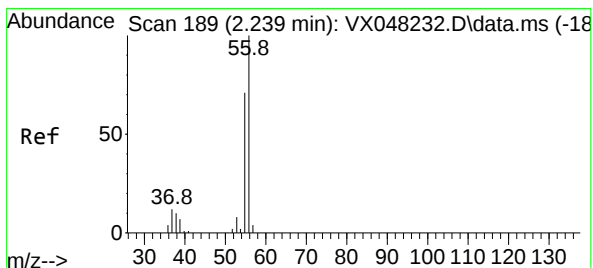
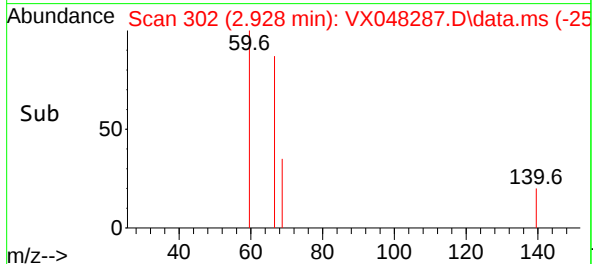
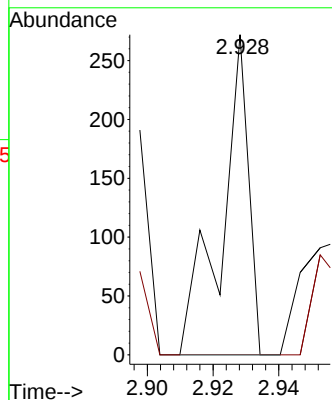
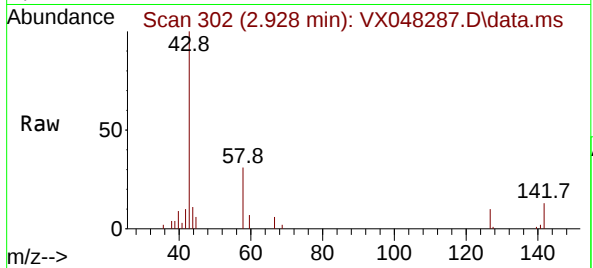




#11
Tert butyl alcohol
Concen: 1.142 ug/l
RT: 2.928 min Scan# 305
Delta R.T. -0.012 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

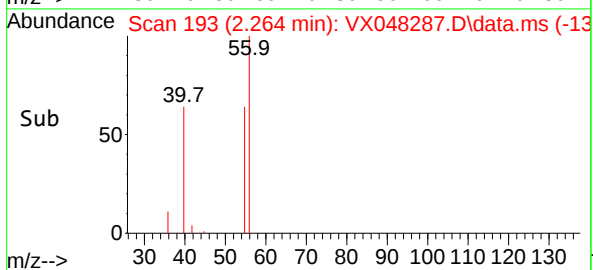
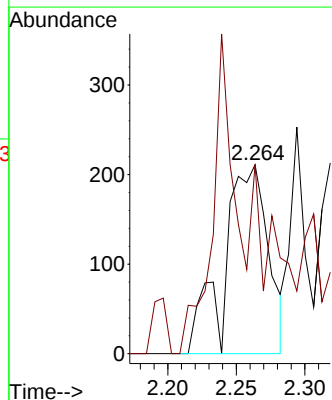
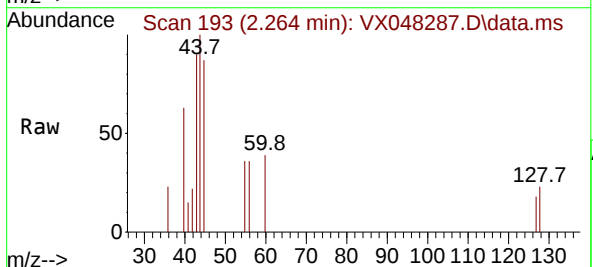
Instrument :
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ClientSampleId :
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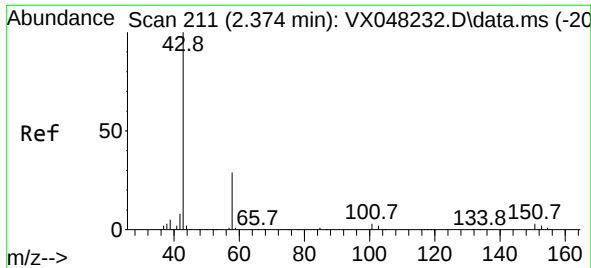
Tgt Ion: 59 Resp: 157
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 3.375 ug/l
RT: 2.264 min Scan# 193
Delta R.T. 0.030 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion: 56 Resp: 473
Ion Ratio Lower Upper
56 100
55 0.0 56.1 84.1#

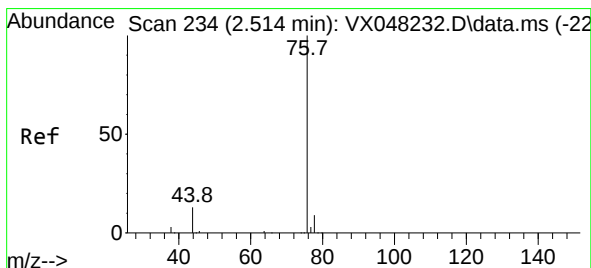
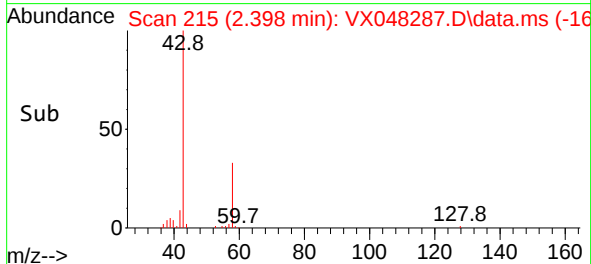
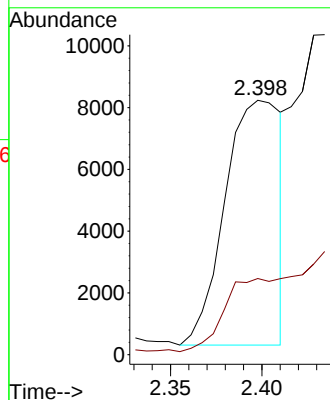
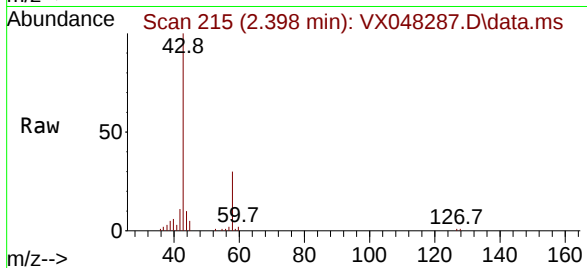




#16
Acetone
Concen: 35.575 ug/l
RT: 2.398 min Scan# 211
Delta R.T. 0.024 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

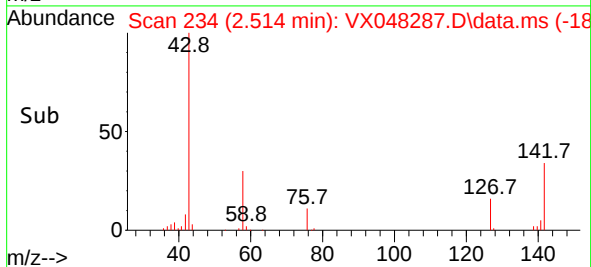
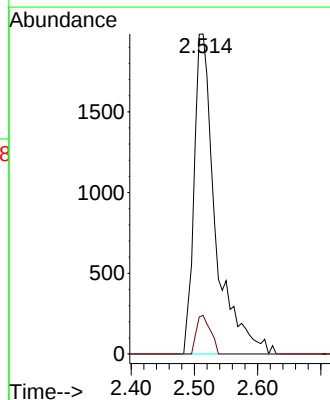
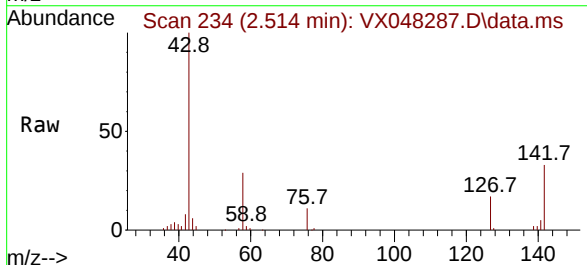
Instrument :
MSVOA_X
ClientSampleId :
TP-7-WC

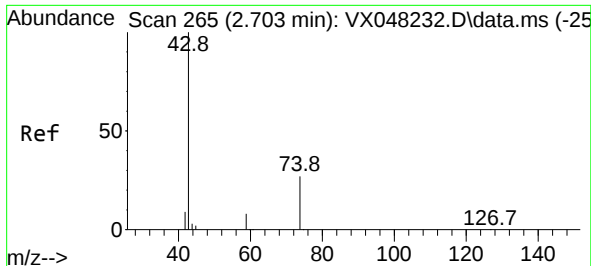
Tgt Ion: 43 Resp: 16892
Ion Ratio Lower Upper
43 100
58 32.3 23.4 35.2



#17
Carbon Disulfide
Concen: 1.434 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.000 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion: 76 Resp: 4685
Ion Ratio Lower Upper
76 100
78 12.1 7.1 10.7#

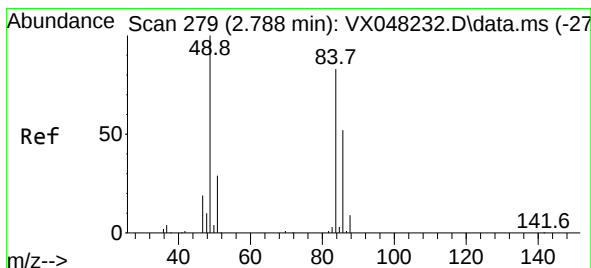
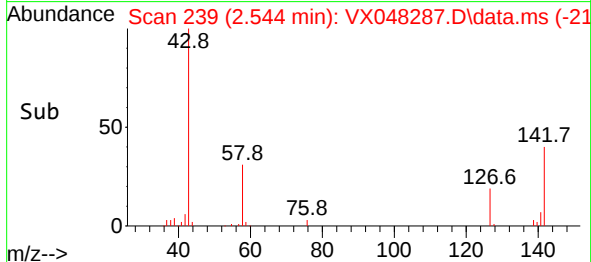
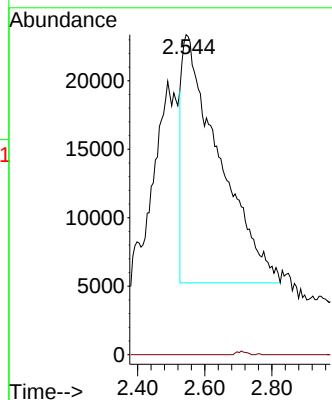
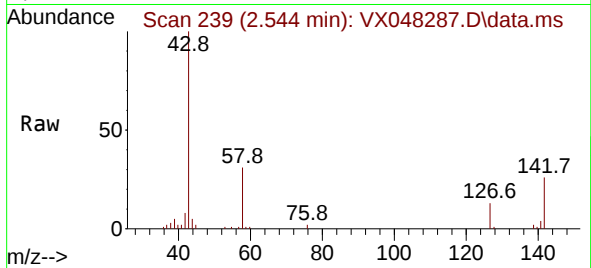




#18
Methyl Acetate
Concen: 140.535 ug/l
RT: 2.544 min Scan# 21
Delta R.T. -0.153 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

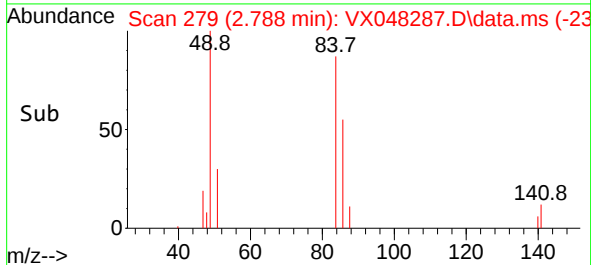
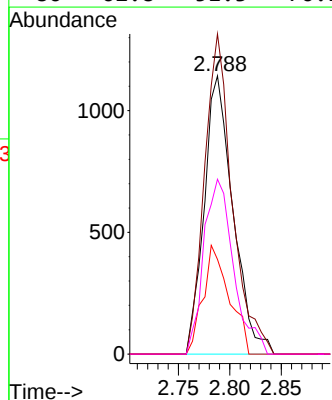
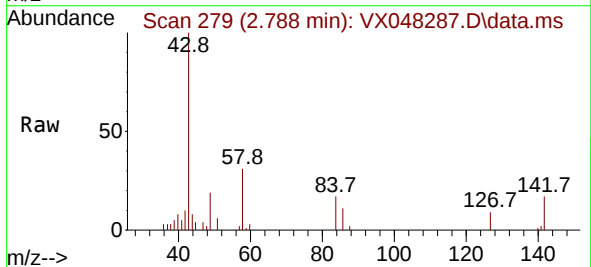
Instrument :
MSVOA_X
ClientSampleId :
TP-7-WC

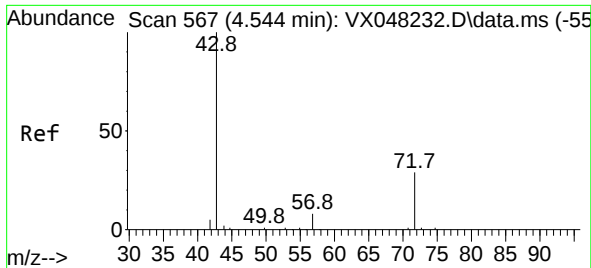
Tgt Ion: 43 Resp: 139361
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.936 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion: 84 Resp: 2240
Ion Ratio Lower Upper
84 100
49 115.0 104.1 156.1
51 34.0 31.3 46.9
86 62.8 51.3 76.9

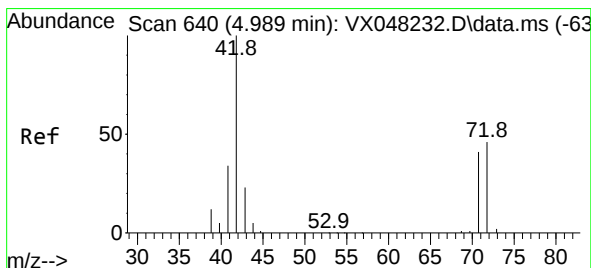
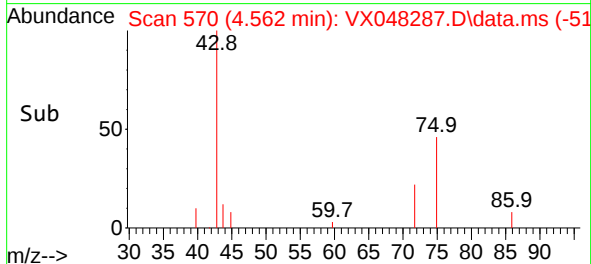
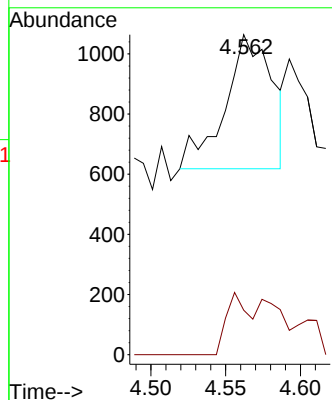
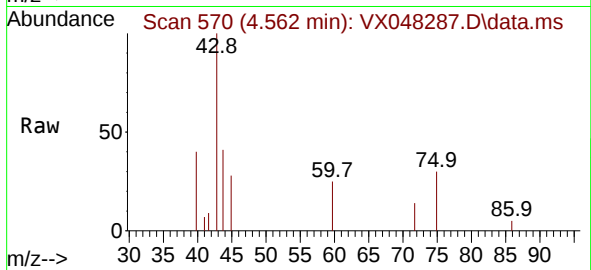




#25
2-Butanone
Concen: 1.624 ug/l
RT: 4.562 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

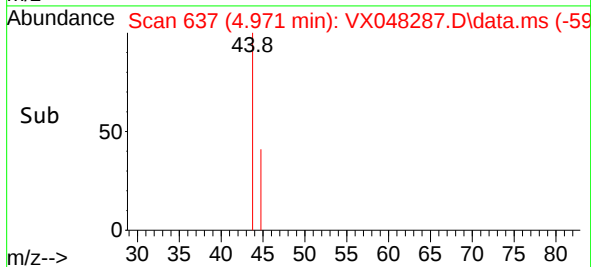
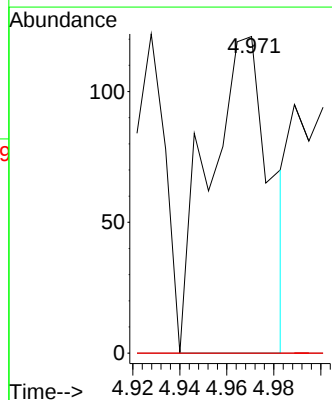
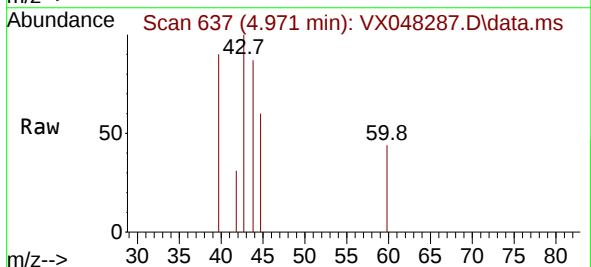
Instrument :
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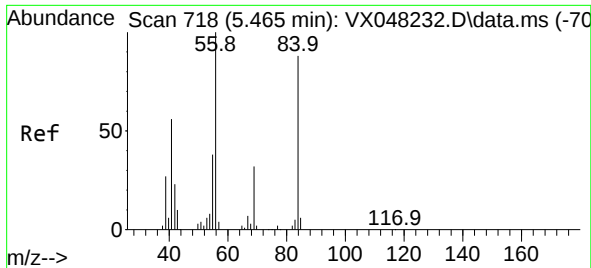
Tgt Ion: 43 Resp: 976
Ion Ratio Lower Upper
43 100
72 24.0 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.608 ug/l
RT: 4.971 min Scan# 637
Delta R.T. -0.018 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion: 42 Resp: 219
Ion Ratio Lower Upper
42 100
72 0.0 35.3 52.9#
71 0.0 32.2 48.4#

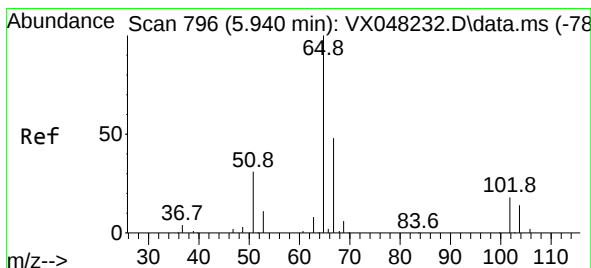
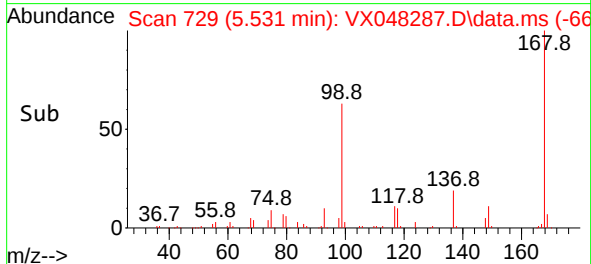
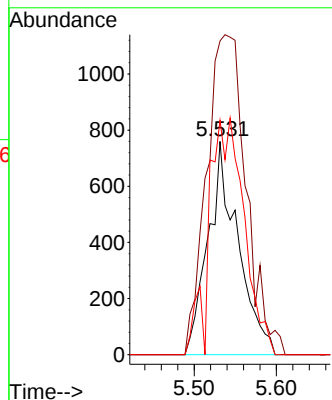
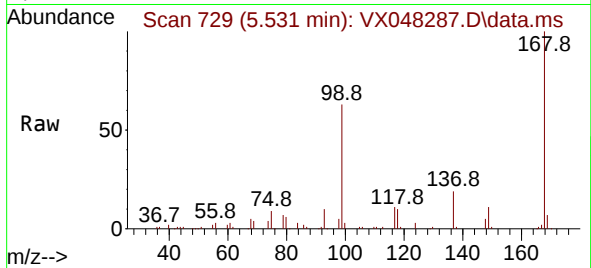




#31
Cyclohexane
Concen: 1.117 ug/l
RT: 5.531 min Scan# 718
Delta R.T. 0.073 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

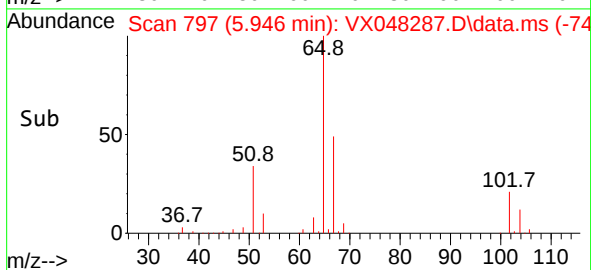
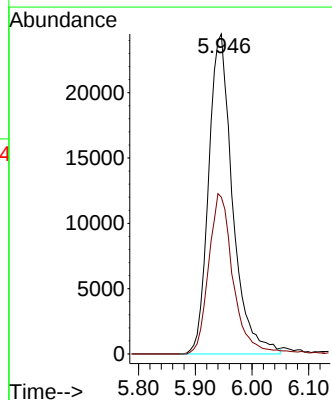
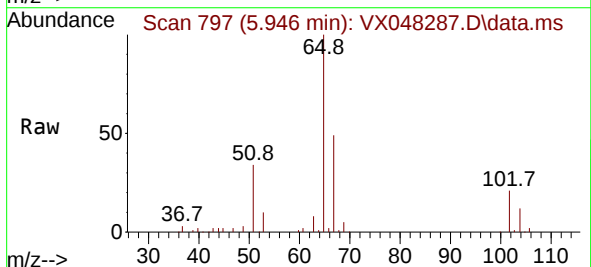
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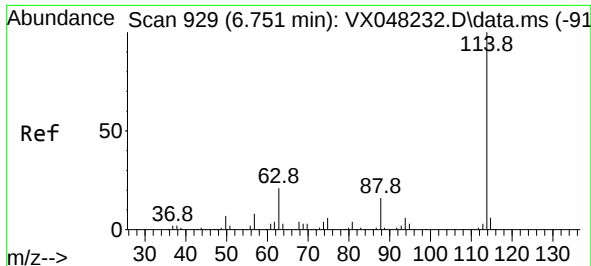
Tgt Ion: 56 Resp: 1919
Ion Ratio Lower Upper
56 100
69 147.1 23.0 34.6#
84 109.9 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 51.888 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion: 65 Resp: 71819
Ion Ratio Lower Upper
65 100
67 51.5 0.0 105.0

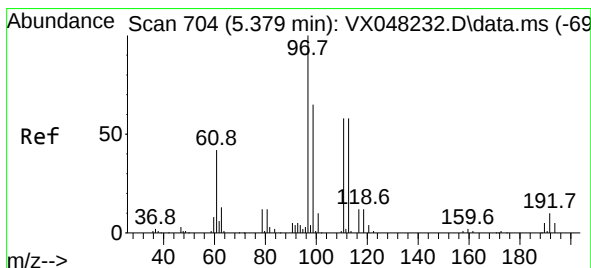
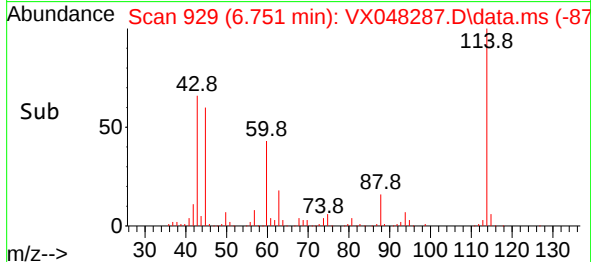
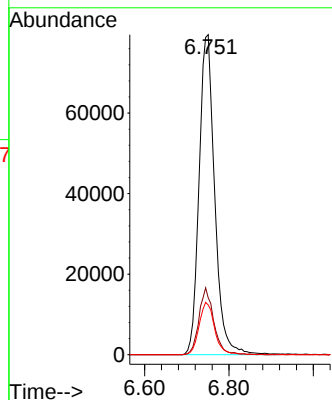
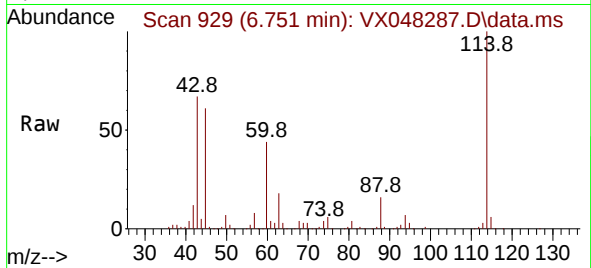




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

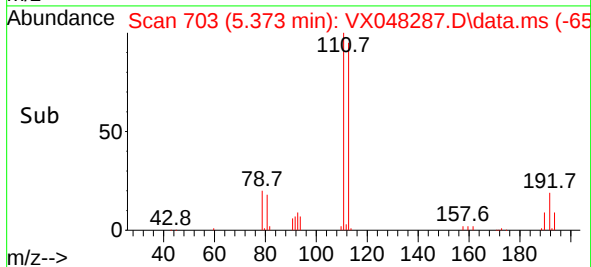
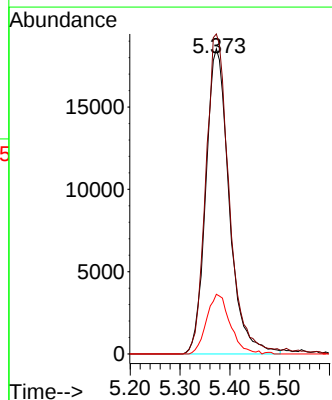
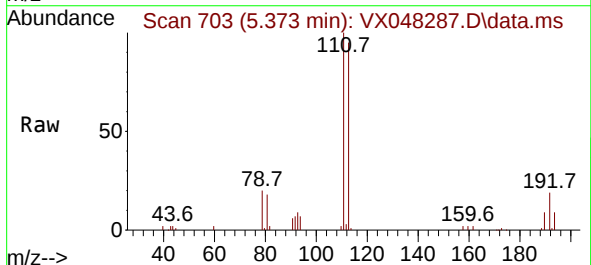
Instrument :
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ClientSampleId :
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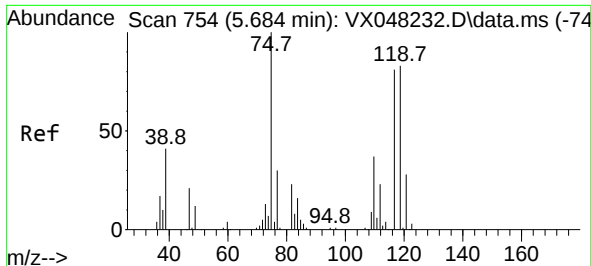
Tgt Ion:114 Resp: 204985
Ion Ratio Lower Upper
114 100
63 17.8 0.0 43.2
88 15.5 0.0 33.6



#35
Dibromofluoromethane
Concen: 43.137 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion:113 Resp: 60367
Ion Ratio Lower Upper
113 100
111 104.6 82.2 123.4
192 19.7 15.1 22.7





#36

1,1-Dichloropropene

Concen: 3.997 ug/l

RT: 5.531 min Scan# 729

Delta R.T. -0.153 min

Lab File: VX048287.D

Acq: 22 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

TP-7-WC

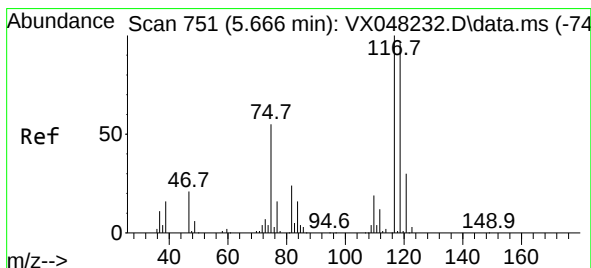
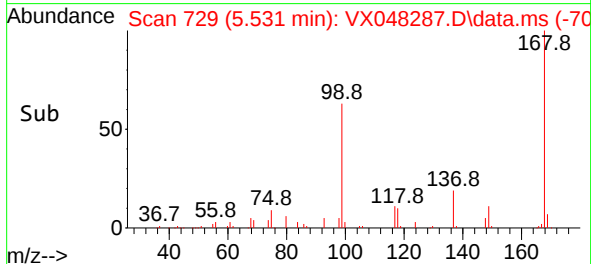
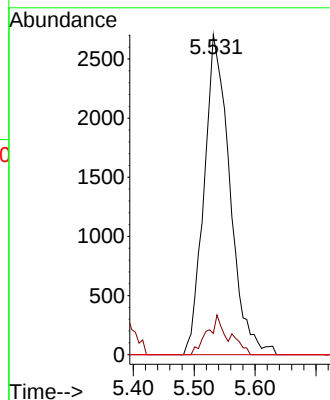
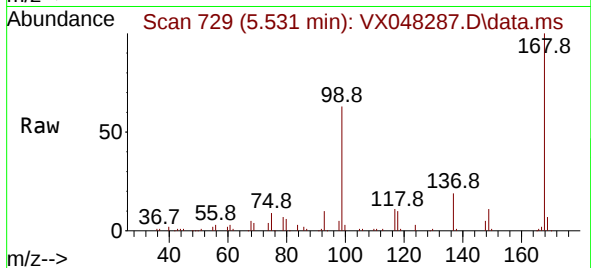
Tgt Ion: 75 Resp: 7950

Ion Ratio Lower Upper

75 100

110 7.8 17.7 53.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 4.082 ug/l

RT: 5.531 min Scan# 729

Delta R.T. -0.134 min

Lab File: VX048287.D

Acq: 22 Oct 2025 11:20

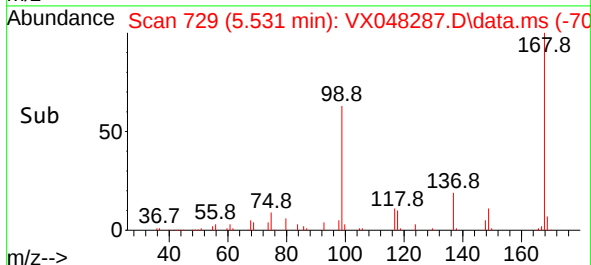
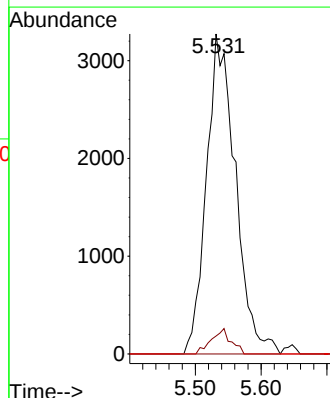
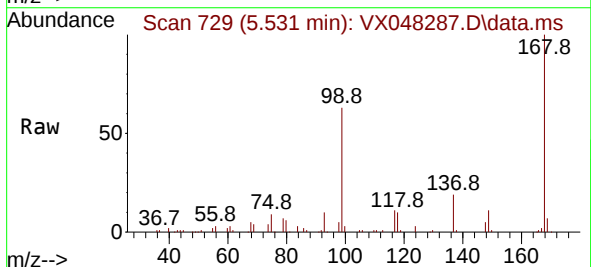
Tgt Ion: 117 Resp: 10017

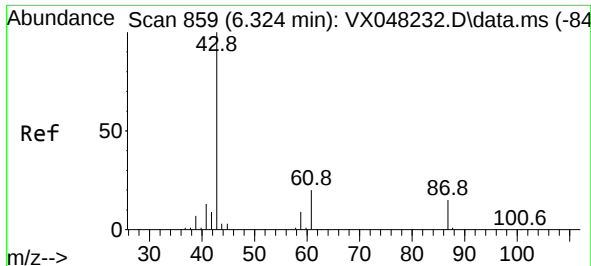
Ion Ratio Lower Upper

117 100

119 5.6 77.2 115.8#

121 0.0 24.8 37.2#

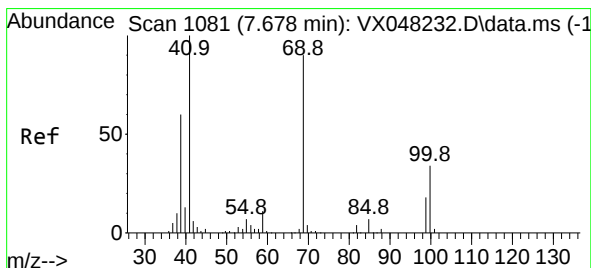
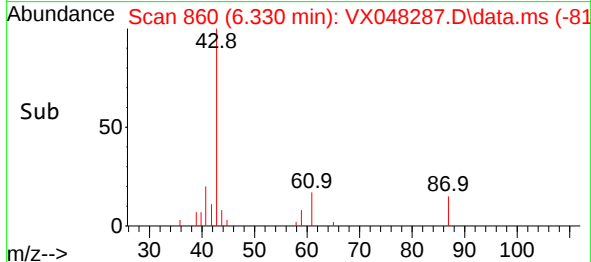
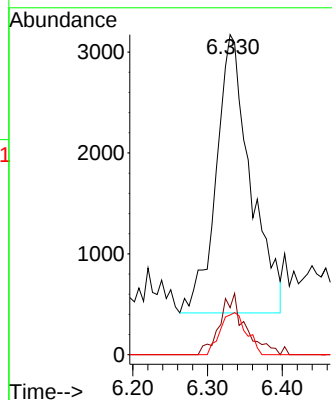
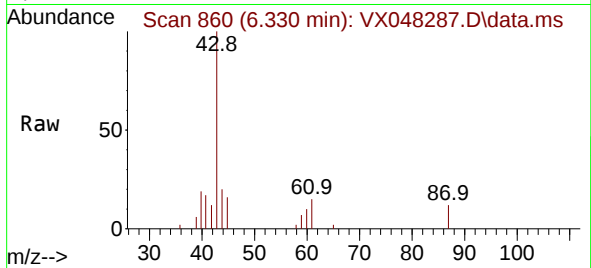




#43
Isopropyl Acetate
Concen: 3.255 ug/l
RT: 6.330 min Scan# 810
Delta R.T. 0.006 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

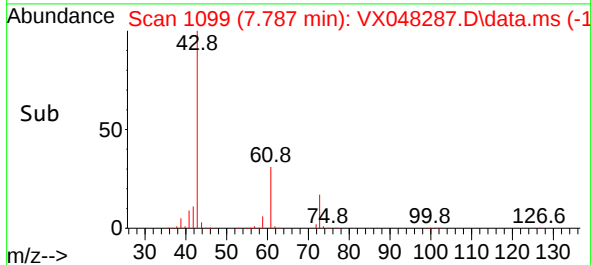
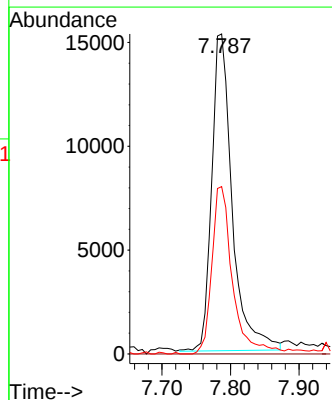
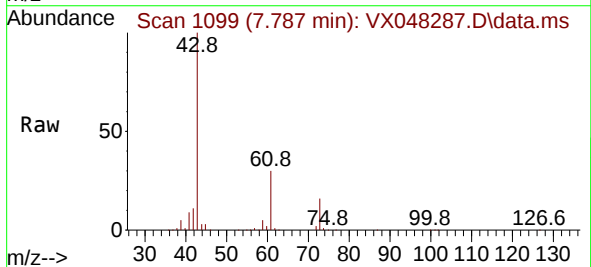
Instrument :
MSVOA_X
ClientSampleId :
TP-7-WC

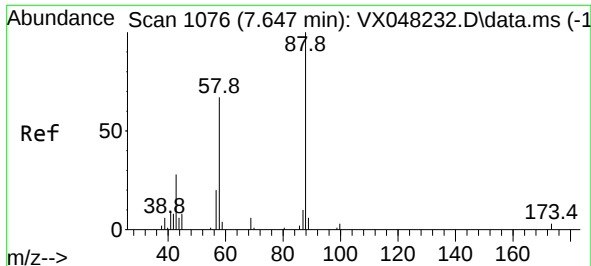
Tgt Ion:	43	Resp:	8814
Ion	Ratio	Lower	Upper
43	100		
61	16.3	14.9	22.3
87	11.5	9.4	14.2



#48
Methyl methacrylate
Concen: 23.231 ug/l
RT: 7.787 min Scan# 1099
Delta R.T. 0.110 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion:	41	Resp:	31746
Ion	Ratio	Lower	Upper
41	100		
69	0.0	63.4	95.0#
39	53.2	47.1	70.7

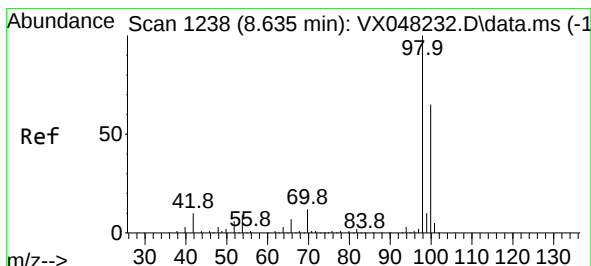
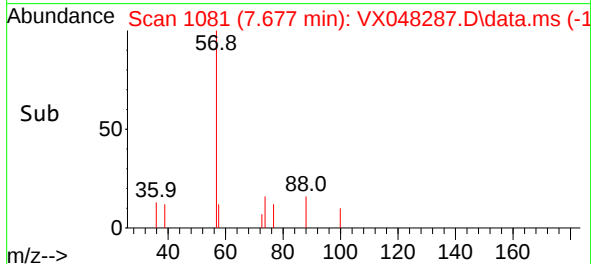
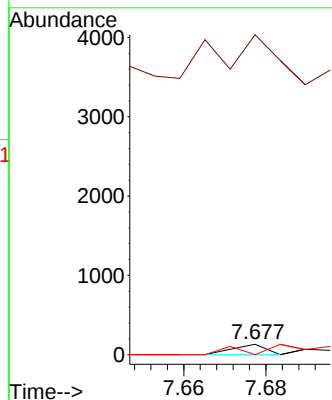
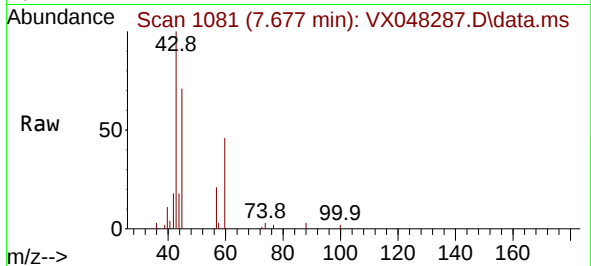




#49
1,4-Dioxane
Concen: 4.043 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. 0.036 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

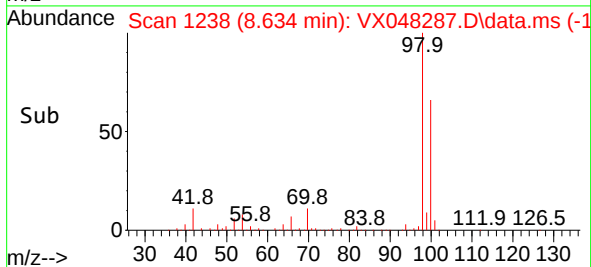
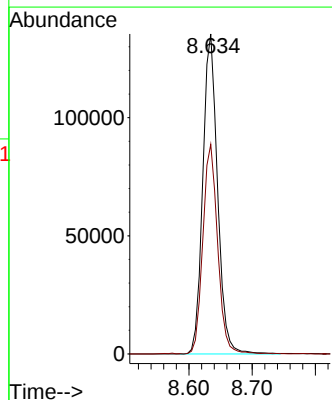
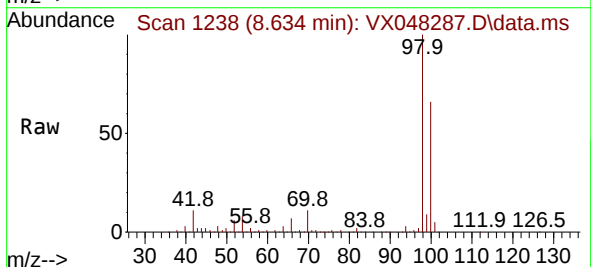
Instrument :
MSVOA_X
ClientSampleId :
TP-7-WC

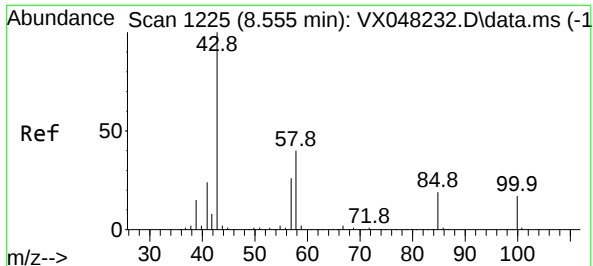
Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 0.0 35.0 52.4#
58 491.8 61.9 92.9#



#50
Toluene-d8
Concen: 44.915 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion: 98 Resp: 220314
Ion Ratio Lower Upper
98 100
100 65.5 53.0 79.4

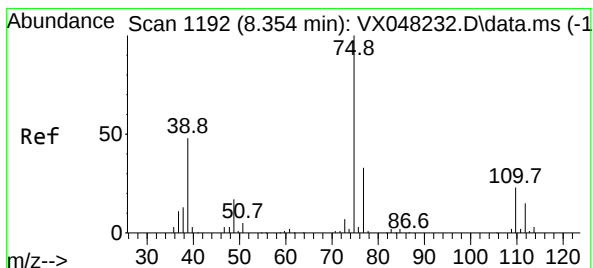
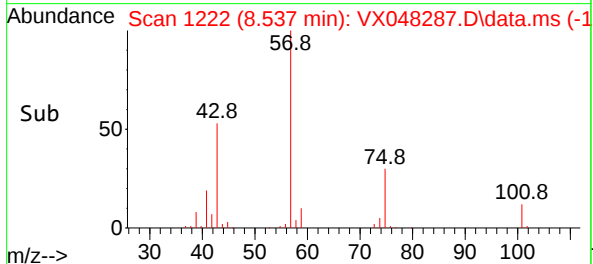
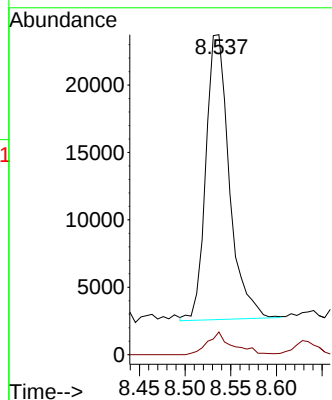
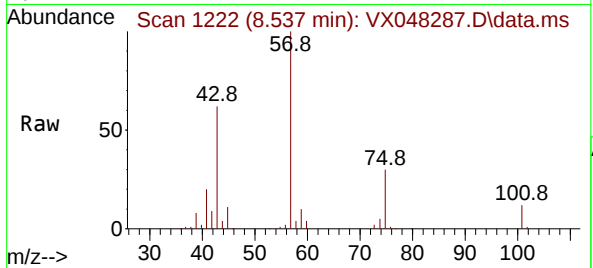




#51
4-Methyl-2-Pentanone
Concen: 24.212 ug/l
RT: 8.537 min Scan# 11
Delta R.T. -0.018 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

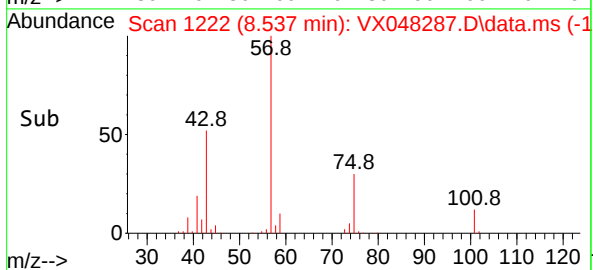
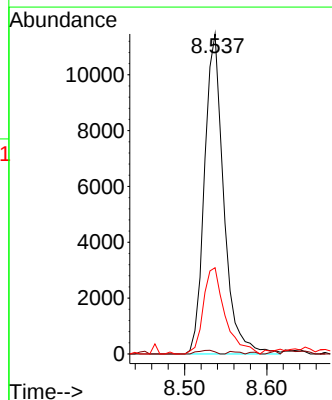
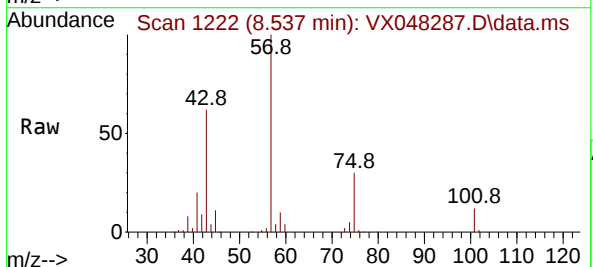
Instrument :
MSVOA_X
ClientSampleId :
TP-7-WC

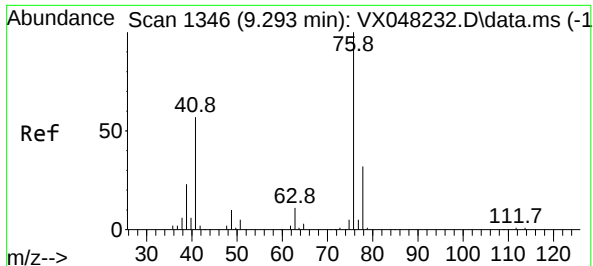
Tgt Ion: 43 Resp: 37804
Ion Ratio Lower Upper
43 100
58 8.5 29.5 44.3#



#54
cis-1,3-Dichloropropene
Concen: 7.773 ug/l
RT: 8.537 min Scan# 1222
Delta R.T. 0.189 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion: 75 Resp: 18665
Ion Ratio Lower Upper
75 100
77 0.6 24.9 37.3#
39 25.4 42.6 64.0#





#57

1,3-Dichloropropane

Concen: 0.697 ug/l

RT: 9.470 min Scan# 1375

Delta R.T. 0.177 min

Lab File: VX048287.D

Acq: 22 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

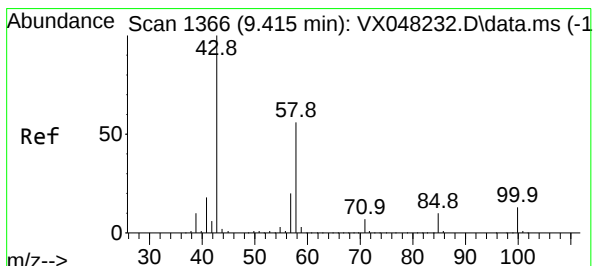
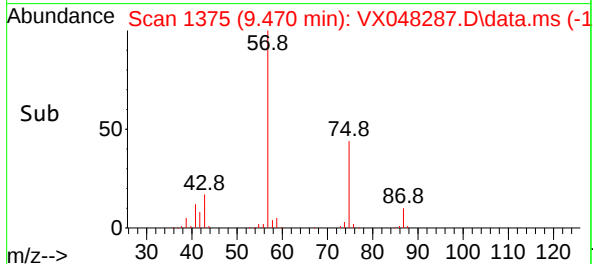
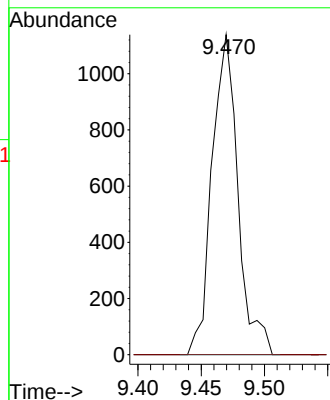
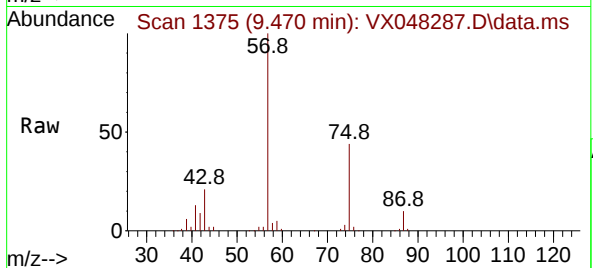
TP-7-WC

Tgt Ion: 76 Resp: 1624

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#



#59

2-Hexanone

Concen: 19.627 ug/l

RT: 9.470 min Scan# 1375

Delta R.T. 0.055 min

Lab File: VX048287.D

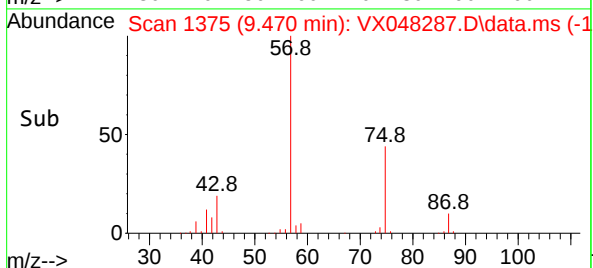
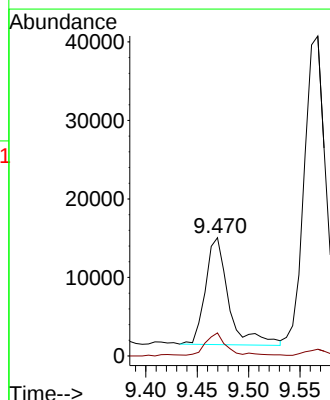
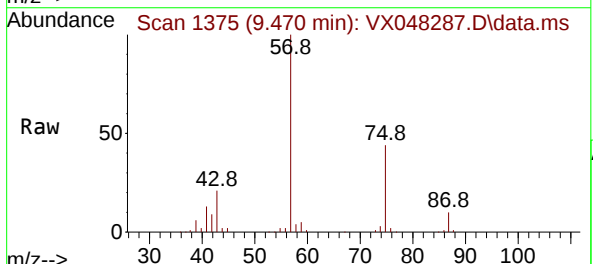
Acq: 22 Oct 2025 11:20

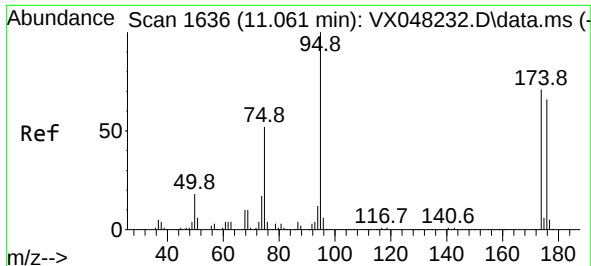
Tgt Ion: 43 Resp: 21369

Ion Ratio Lower Upper

43 100

58 16.9 26.3 78.8#

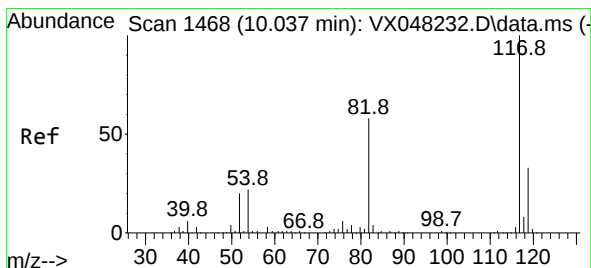
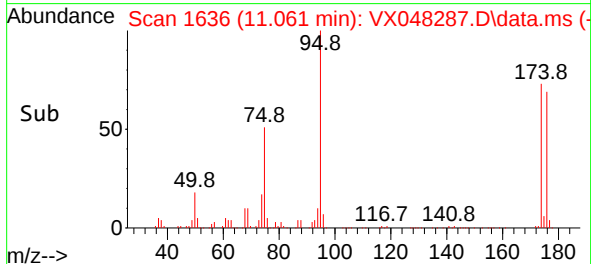
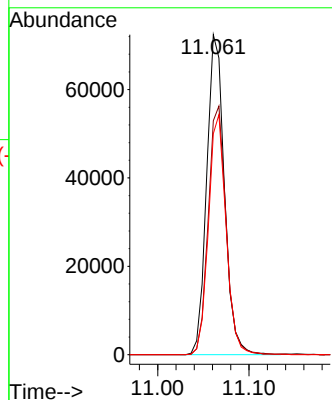
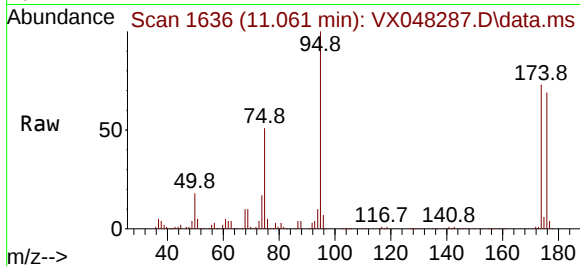




#62
4-Bromofluorobenzene
Concen: 52.166 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

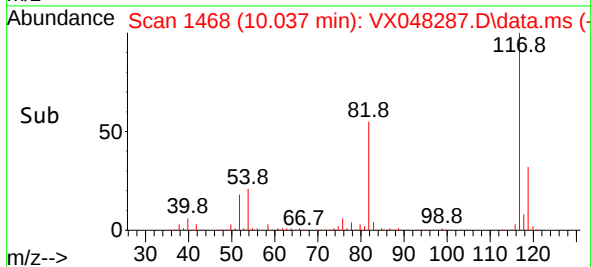
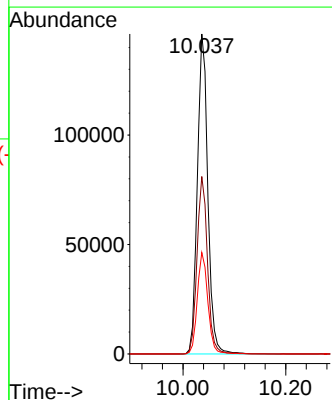
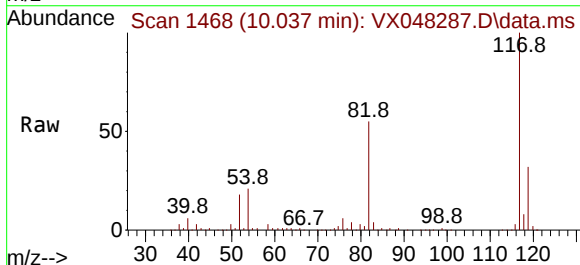
Instrument :
MSVOA_X
ClientSampleId :
TP-7-WC

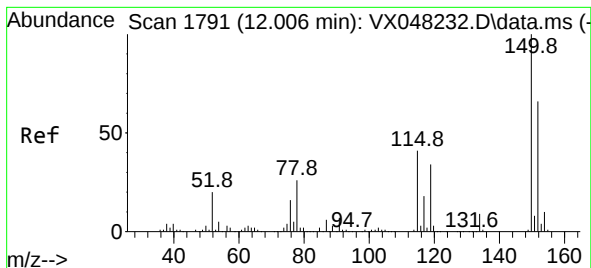
Tgt Ion: 95 Resp: 97344
Ion Ratio Lower Upper
95 100
174 78.8 0.0 147.8
176 74.7 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

Tgt Ion: 117 Resp: 206864
Ion Ratio Lower Upper
117 100
82 55.5 46.5 69.7
119 31.7 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048287.D

Acq: 22 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

TP-7-WC

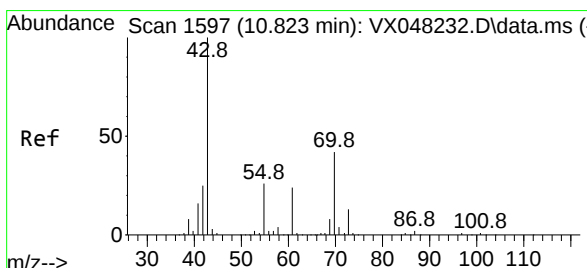
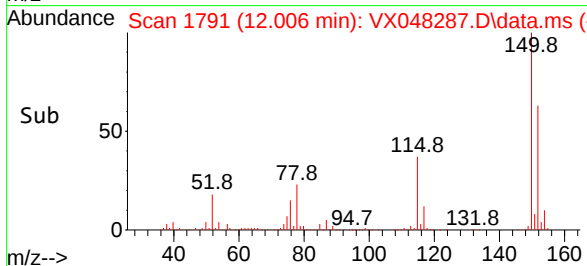
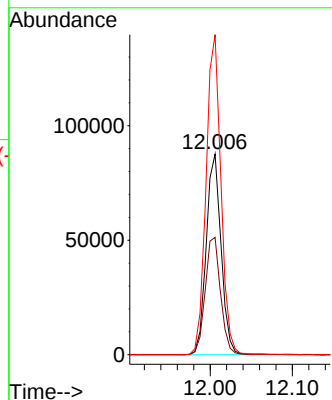
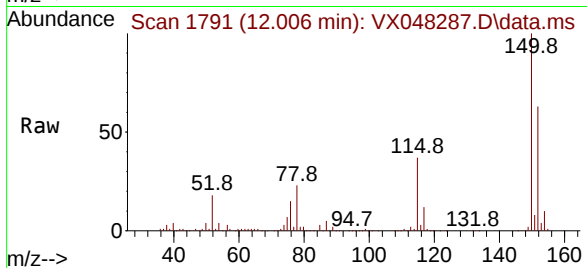
Tgt Ion:152 Resp: 109910

Ion Ratio Lower Upper

152 100

115 60.6 43.1 129.4

150 159.1 0.0 353.0



#74

N-ethyl acetate

Concen: 0.382 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. 0.018 min

Lab File: VX048287.D

Acq: 22 Oct 2025 11:20

Tgt Ion: 43 Resp: 1088

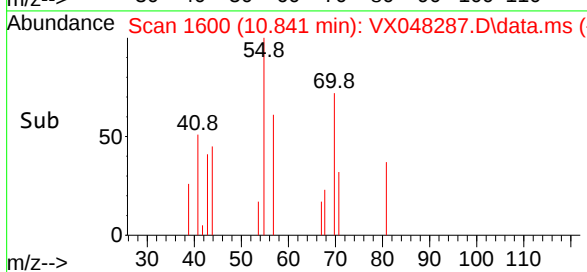
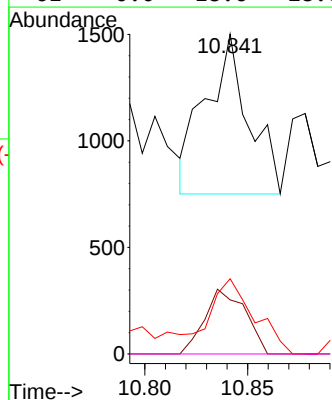
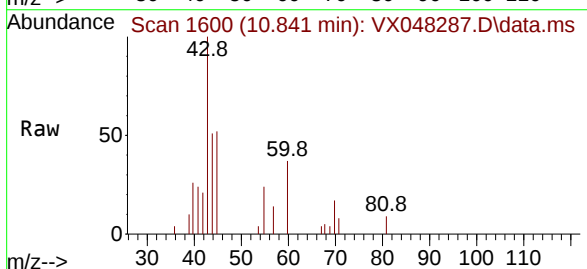
Ion Ratio Lower Upper

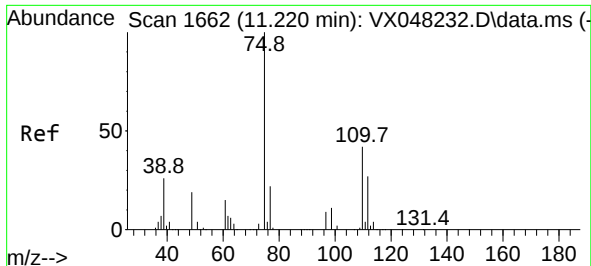
43 100

70 38.3 32.2 48.2

55 49.7 19.1 28.7#

61 0.0 18.6 28.0#

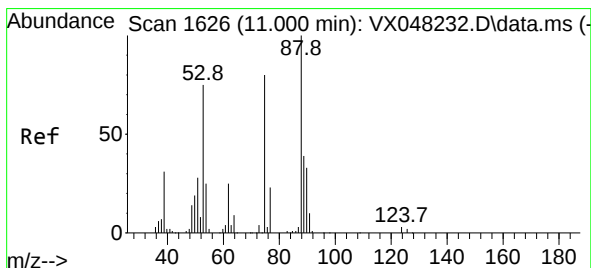
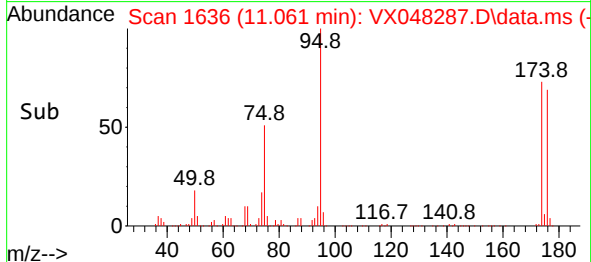
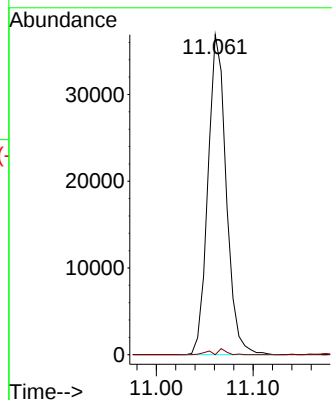
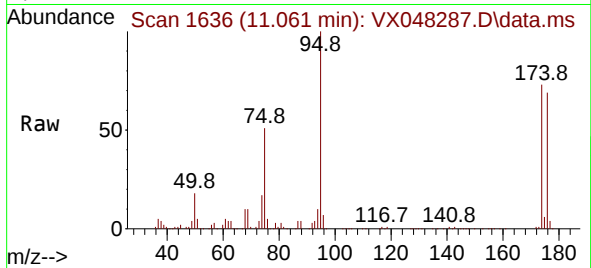




#76
1,2,3-Trichloropropane
Concen: 27.259 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

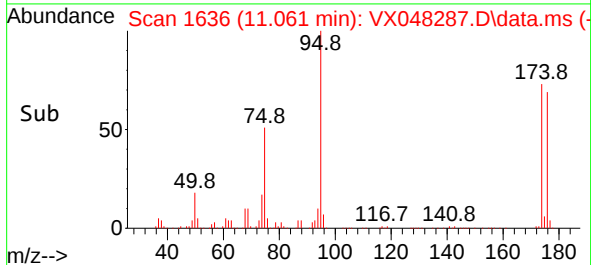
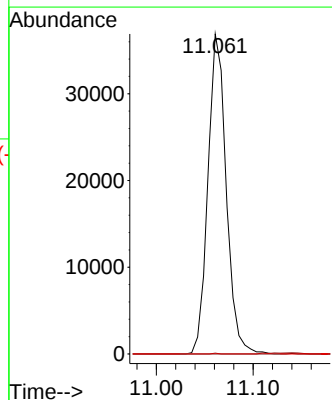
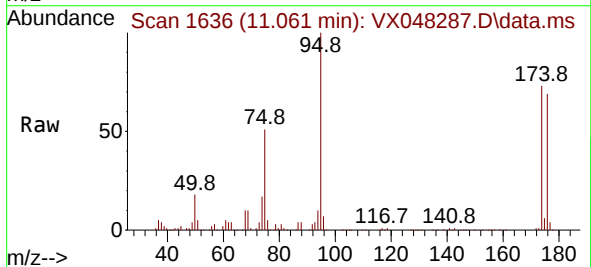
Instrument :
MSVOA_X
ClientSampleId :
TP-7-WC

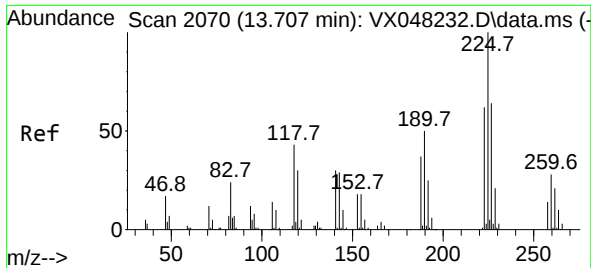
Tgt Ion: 75 Resp: 48586
Ion Ratio Lower Upper
75 100
77 0.8 22.4 67.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.320 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048287.D
Acq: 22 Oct 2025 11:20

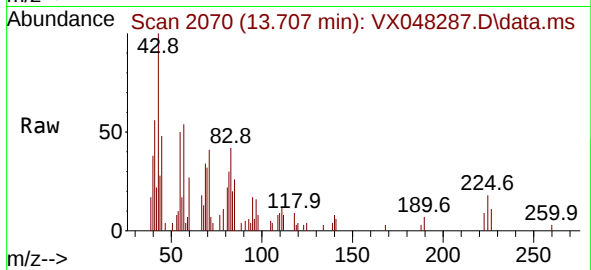
Tgt Ion: 75 Resp: 48586
Ion Ratio Lower Upper
75 100
53 0.1 79.5 119.3#
89 0.0 36.8 55.2#





#94
 Hexachlorobutadiene
 Concen: 0.351 ug/l
 RT: 13.707 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VX048287.D
 Acq: 22 Oct 2025 11:20

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-7-WC



Tgt Ion:	225	Resp:	257
Ion	Ratio	Lower	Upper
225	100		
223	65.8	32.6	97.7
227	63.4	32.5	97.4

