

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
 Data File : VN086741.D
 Acq On : 21 May 2025 19:06
 Operator : JC\MD
 Sample : Q2095-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WCS-TP1

Quant Time: May 22 01:29:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

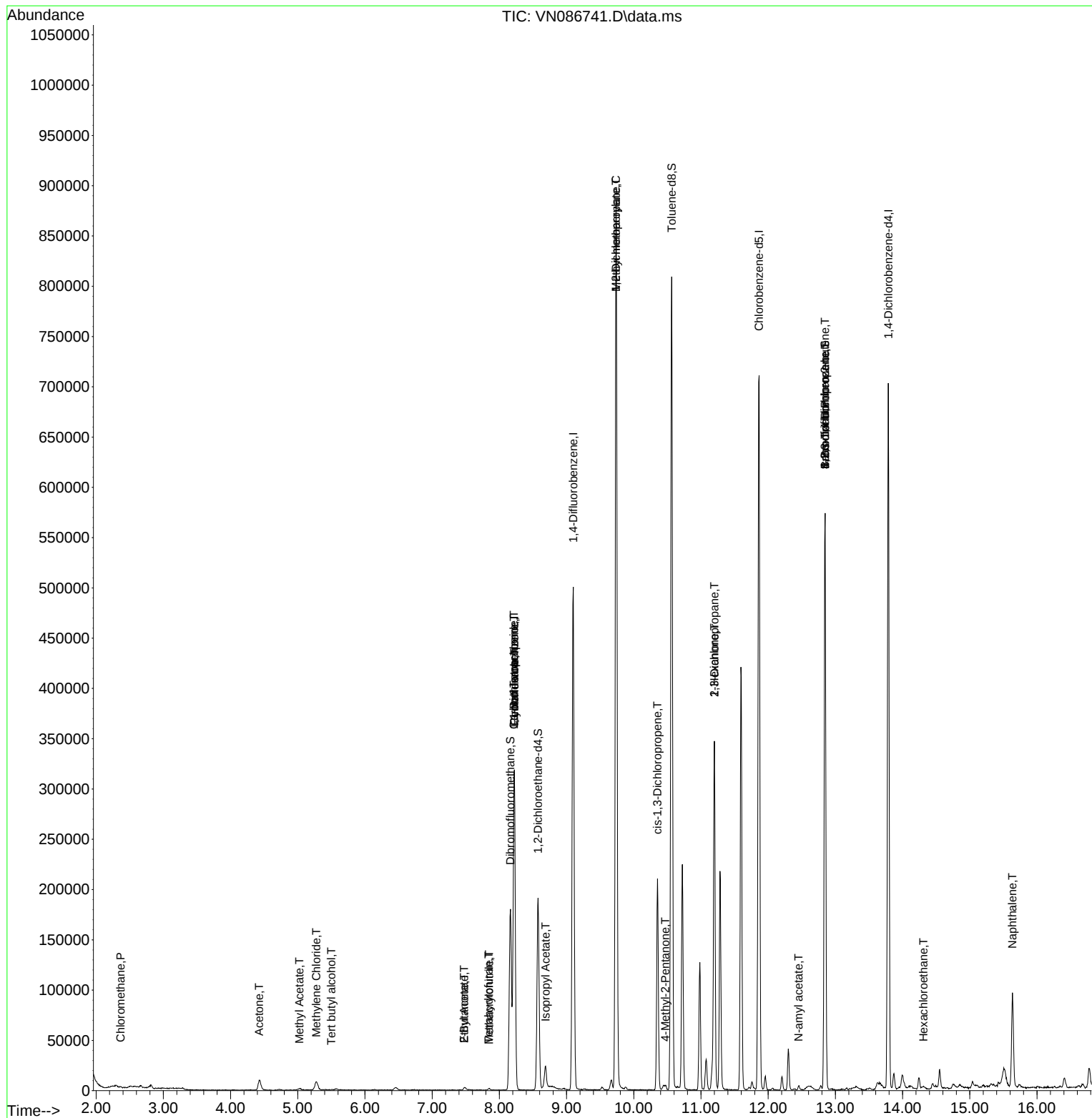
Internal Standards						
1) Pentafluorobenzene	8.224	168	251832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	467278	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	451108	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	201270	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	156063	44.848	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.700%		
35) Dibromofluoromethane	8.165	113	138283	49.691	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.380%		
50) Toluene-d8	10.565	98	592898	51.412	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.820%		
62) 4-Bromofluorobenzene	12.847	95	219961	54.018	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	108.040%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	840	0.204	ug/l #	85
11) Tert butyl alcohol	5.500	59	175	0.276	ug/l #	73
16) Acetone	4.424	43	20195	15.514	ug/l	97
18) Methyl Acetate	5.024	43	3357	0.921	ug/l	99
20) Methylene Chloride	5.277	84	7447	2.168	ug/l	86
25) 2-Butanone	7.477	43	5512	2.740	ug/l #	85
29) Tetrahydrofuran	7.841	42	1254	0.955	ug/l #	80
31) Cyclohexane	8.224	56	4348	0.833	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	18379	4.477	ug/l #	49
37) Ethyl Acetate	7.477	43	5512	1.329	ug/l #	67
38) Carbon Tetrachloride	8.218	117	24166	5.975	ug/l #	16
41) Methacrylonitrile	7.847	41	647	0.289	ug/l #	21
43) Isopropyl Acetate	8.688	43	29822	3.588	ug/l #	88
45) 1,2-Dichloropropane	9.735	63	1189	0.374	ug/l #	42
48) Methyl methacrylate	9.735	41	74444	23.112	ug/l #	35
51) 4-Methyl-2-Pentanone	10.471	43	7602	1.814	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	42277	8.271	ug/l #	54
57) 1,3-Dichloropropane	11.200	76	3693	0.690	ug/l #	42
59) 2-Hexanone	11.200	43	62817	20.521	ug/l #	41
71) Bromoform	12.847	173	951	0.419	ug/l #	1
74) N-amyl acetate	12.453	43	3502	0.539	ug/l #	41
76) 1,2,3-Trichloropropane	12.847	75	102979	22.623	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	102979	57.093	ug/l #	15
90) Hexachloroethane	14.312	117	411	0.208	ug/l #	18
95) Naphthalene	15.635	128	96264	10.198	ug/l	99

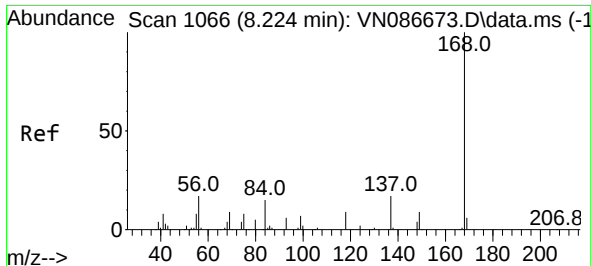
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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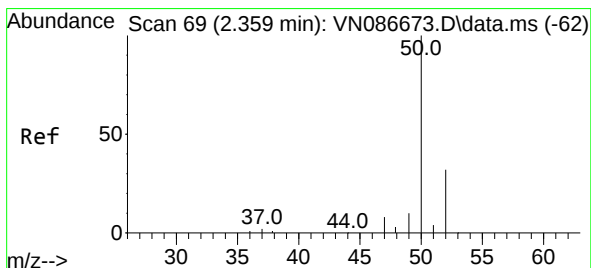
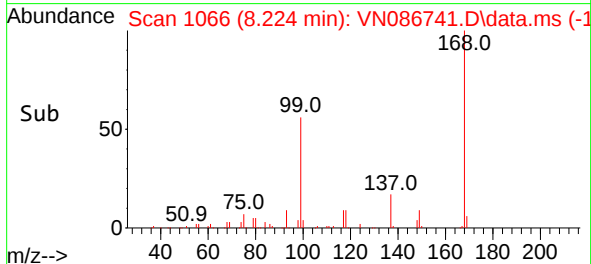
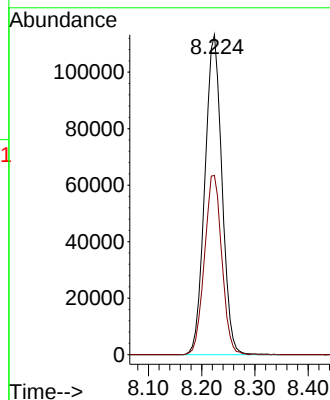
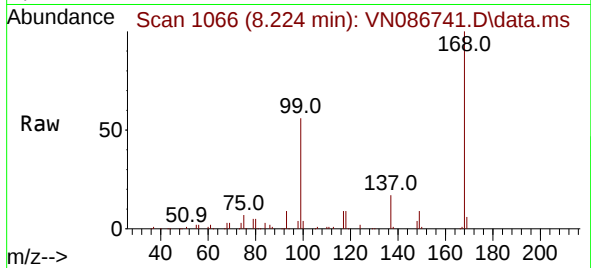




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

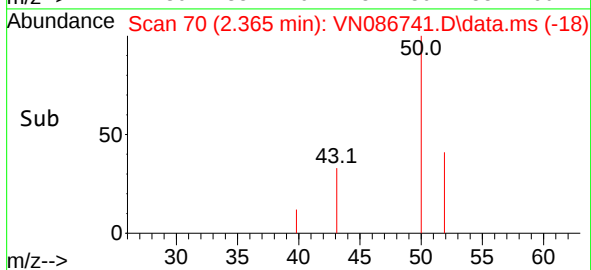
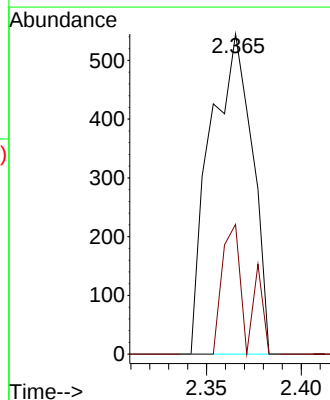
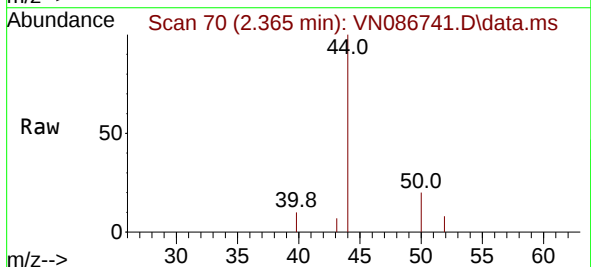
Instrument :
MSVOA_N
ClientSampleId :
WCS-TP1

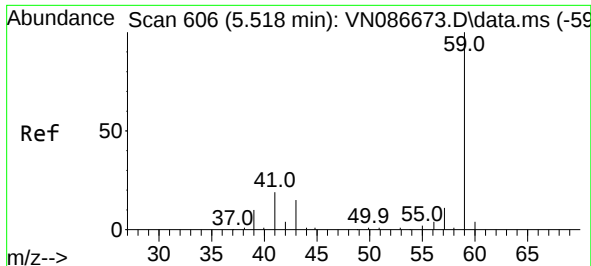
Tgt Ion:168 Resp: 251832
Ion Ratio Lower Upper
168 100
99 56.0 47.0 70.4



#3
Chloromethane
Concen: 0.204 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

Tgt Ion: 50 Resp: 840
Ion Ratio Lower Upper
50 100
52 40.6 25.9 38.9#

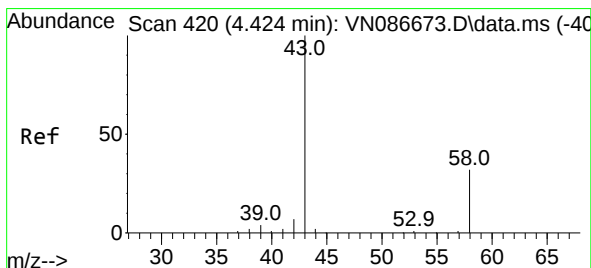
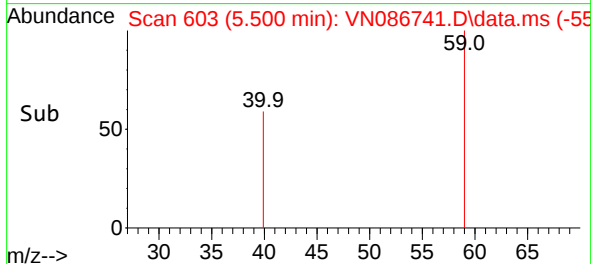
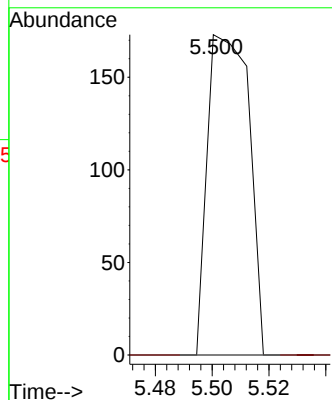
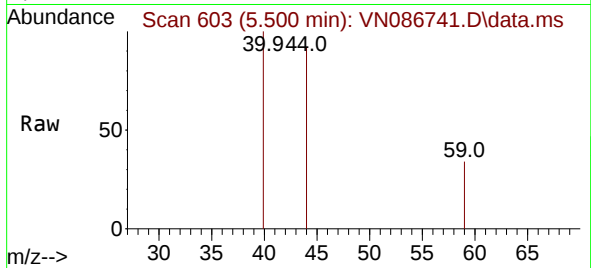




#11
Tert butyl alcohol
Concen: 0.276 ug/l
RT: 5.500 min Scan# 606
Delta R.T. -0.018 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

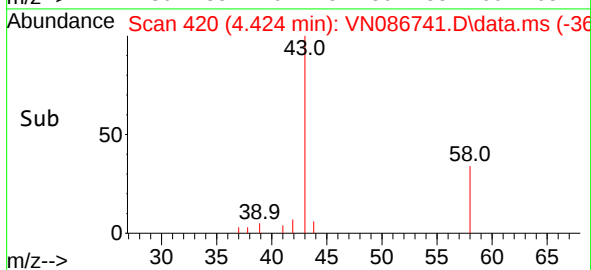
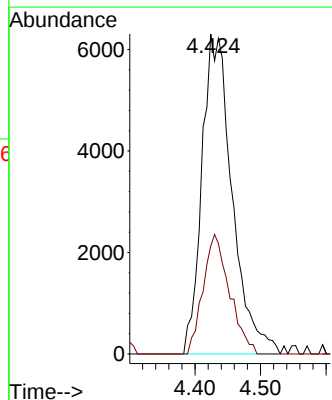
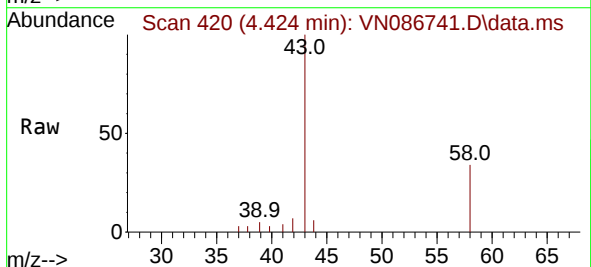
Instrument :
MSVOA_N
ClientSampleId :
WCS-TP1

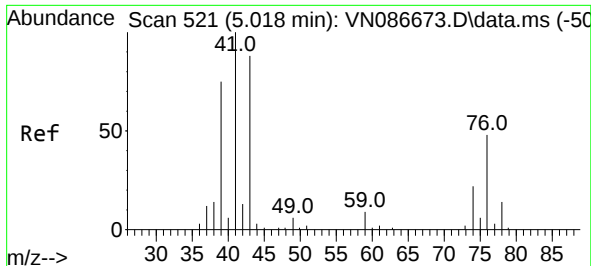
Tgt Ion: 59 Resp: 175
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 15.514 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

Tgt Ion: 43 Resp: 20195
Ion Ratio Lower Upper
43 100
58 33.7 25.8 38.6

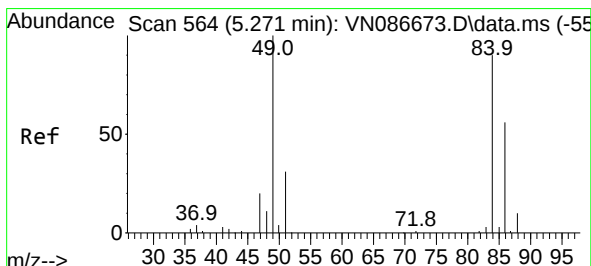
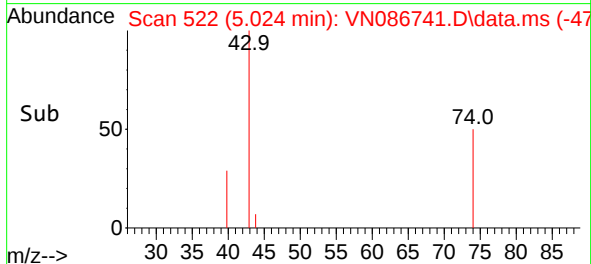
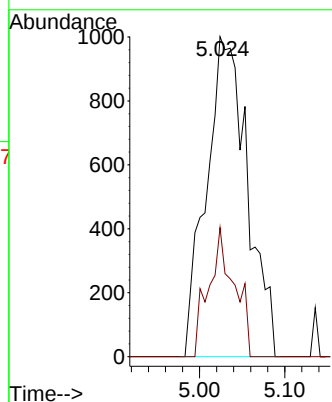
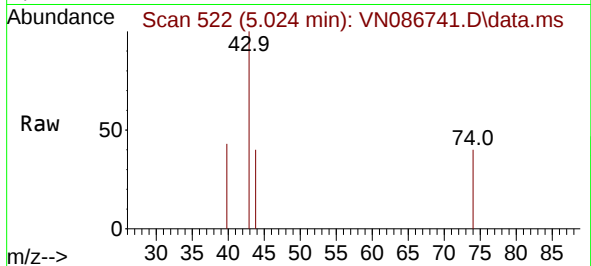




#18
Methyl Acetate
Concen: 0.921 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

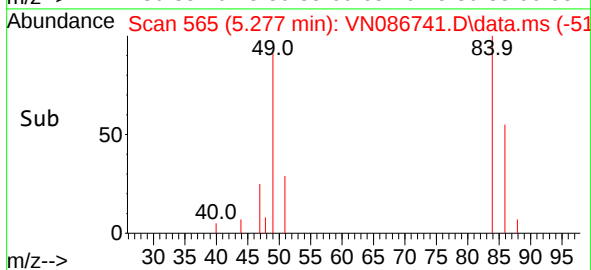
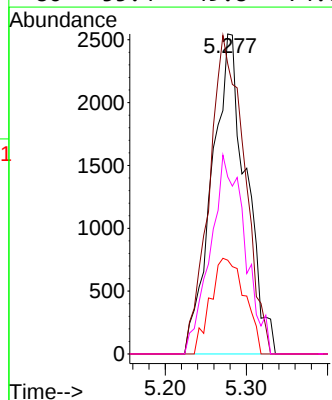
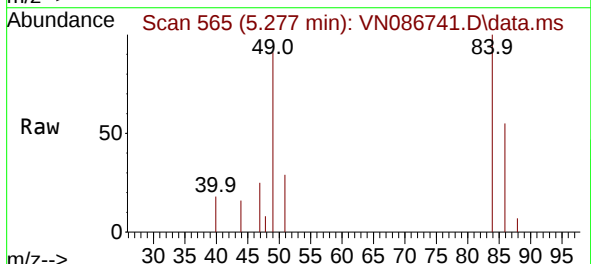
Instrument :
MSVOA_N
ClientSampleId :
WCS-TP1

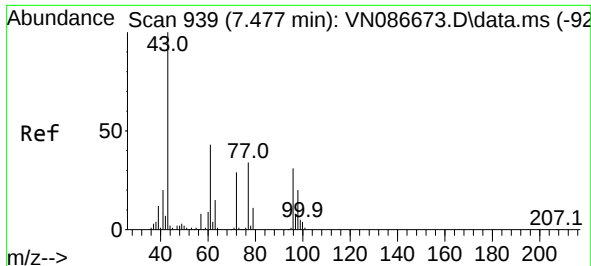
Tgt Ion: 43 Resp: 3357
Ion Ratio Lower Upper
43 100
74 25.2 20.5 30.7



#20
Methylene Chloride
Concen: 2.168 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

Tgt Ion: 84 Resp: 7447
Ion Ratio Lower Upper
84 100
49 90.7 88.8 133.2
51 29.3 27.8 41.6
86 55.4 49.8 74.6

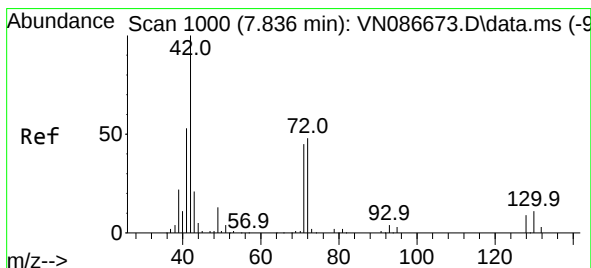
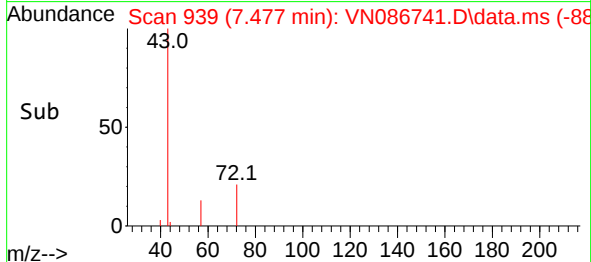
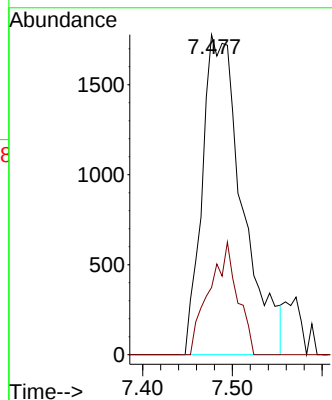
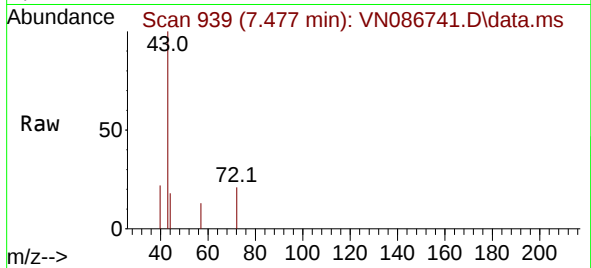




#25
2-Butanone
Concen: 2.740 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

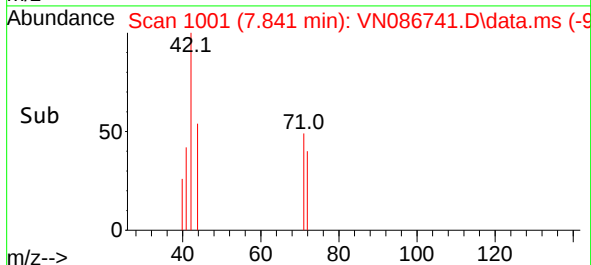
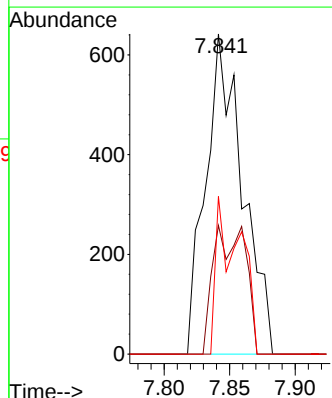
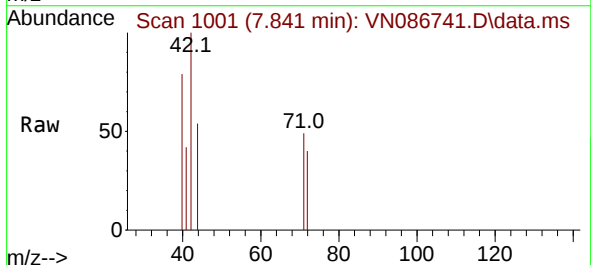
Instrument :
MSVOA_N
ClientSampleId :
WCS-TP1

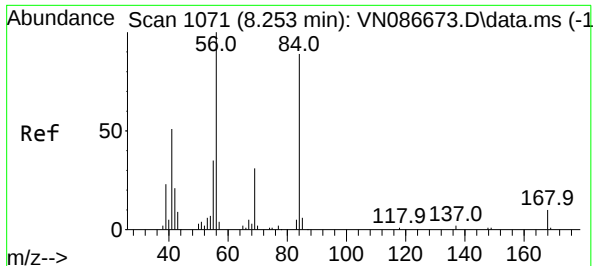
Tgt Ion: 43 Resp: 5512
Ion Ratio Lower Upper
43 100
72 21.0 23.1 34.7#



#29
Tetrahydrofuran
Concen: 0.955 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

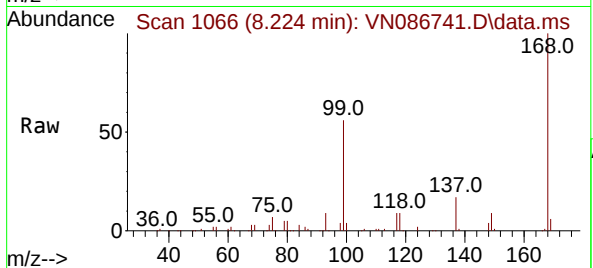
Tgt Ion: 42 Resp: 1254
Ion Ratio Lower Upper
42 100
72 34.9 38.7 58.1#
71 31.9 36.2 54.4#



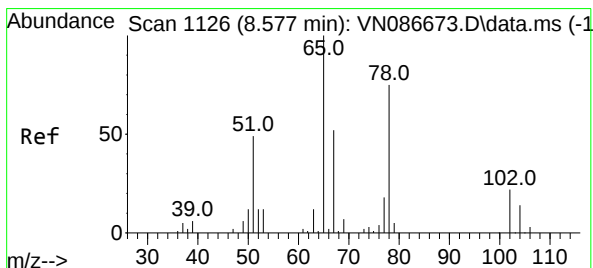
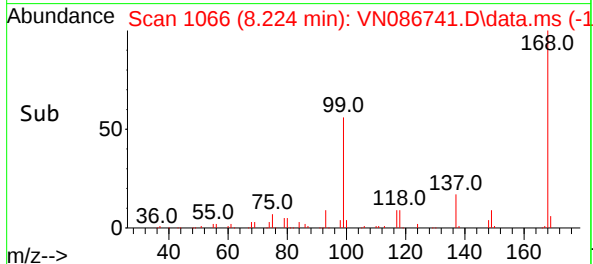
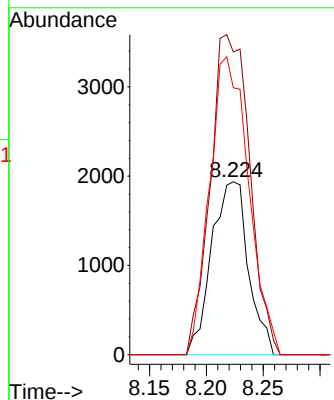


#31
Cyclohexane
Concen: 0.833 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

Instrument :
MSVOA_N
ClientSampleId :
WCS-TP1

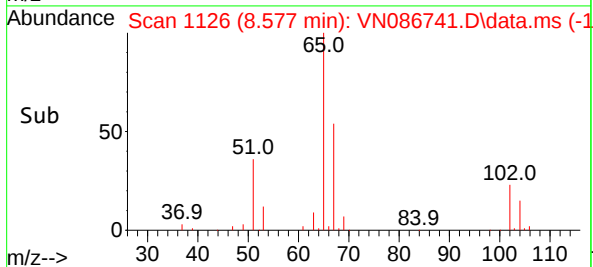
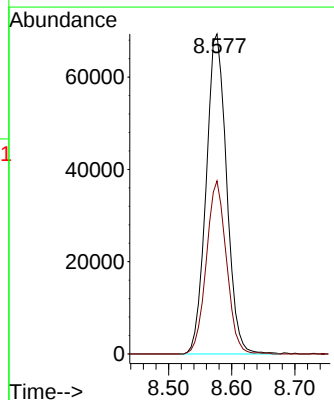
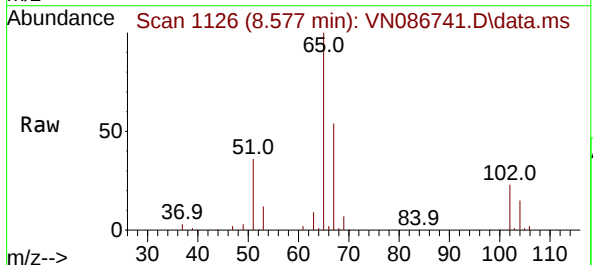


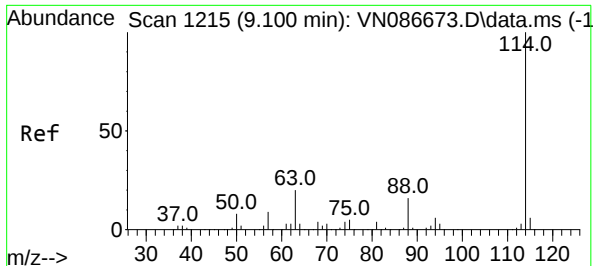
Tgt Ion: 56 Resp: 4348
Ion Ratio Lower Upper
56 100
69 175.1 25.0 37.6#
84 154.4 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 44.848 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

Tgt Ion: 65 Resp: 156063
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086741.D

Acq: 21 May 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

WCS-TP1

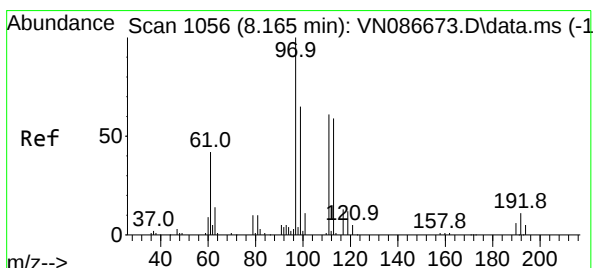
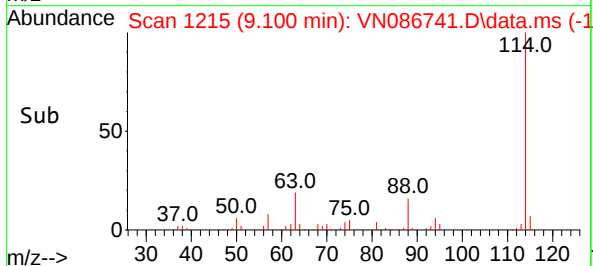
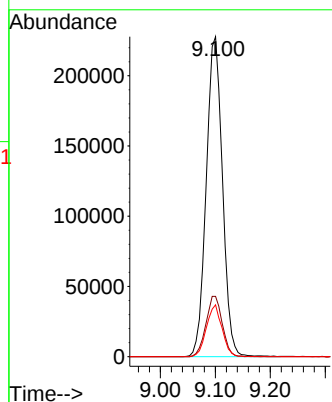
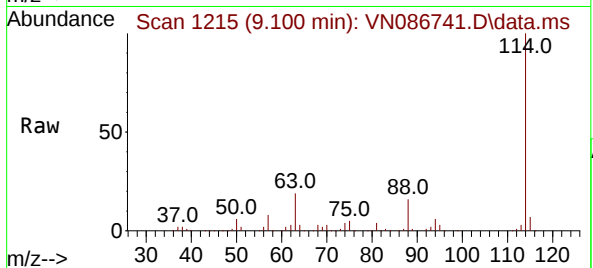
Tgt Ion:114 Resp: 467278

Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.2

88 16.2 0.0 31.2



#35

Dibromofluoromethane

Concen: 49.691 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086741.D

Acq: 21 May 2025 19:06

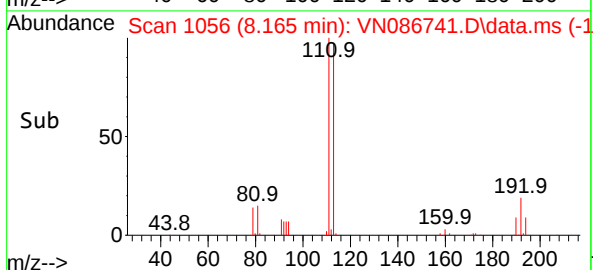
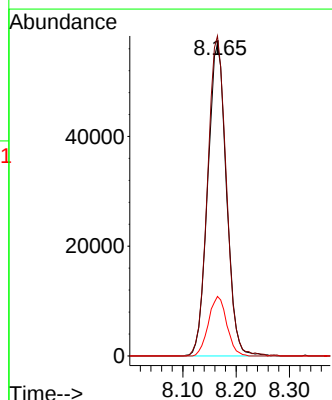
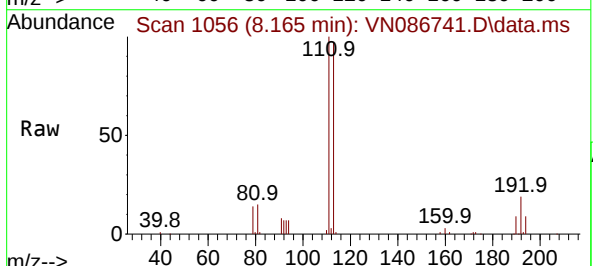
Tgt Ion:113 Resp: 138283

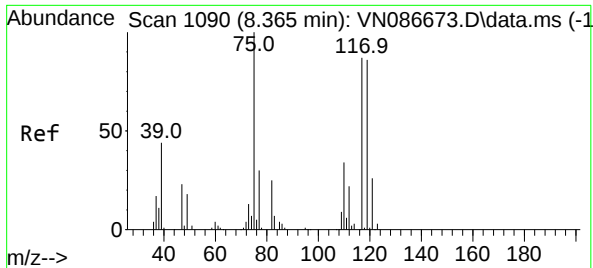
Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.2

192 18.7 13.8 20.8

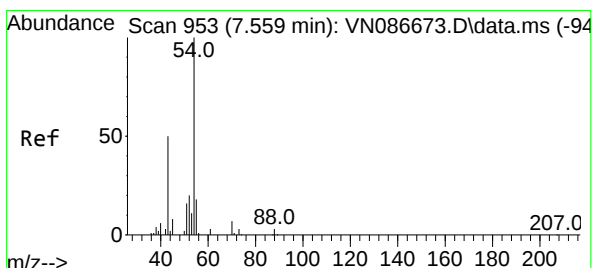
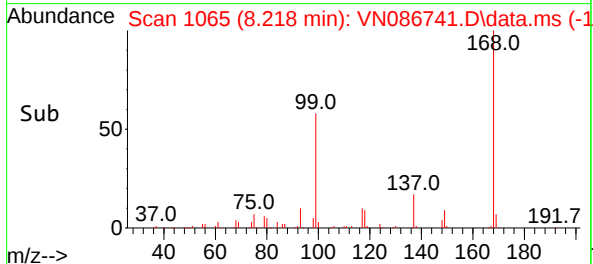
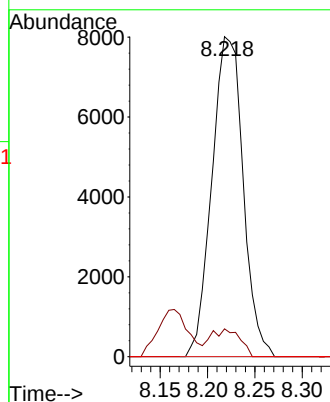
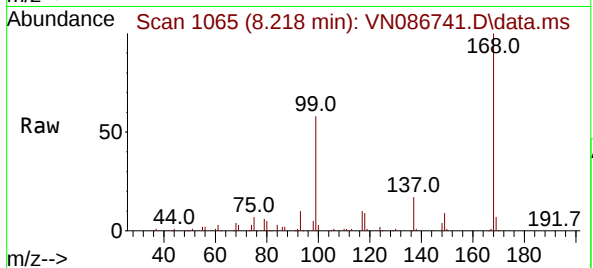




#36
1,1-Dichloropropene
Concen: 4.477 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

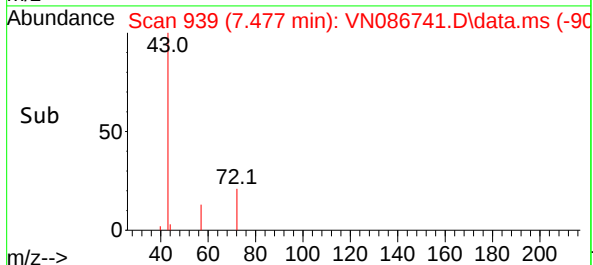
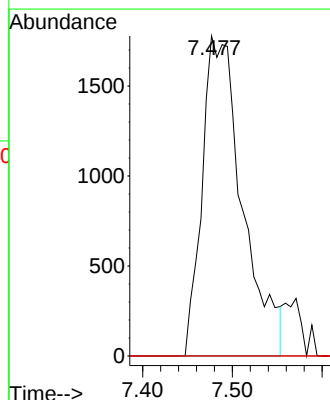
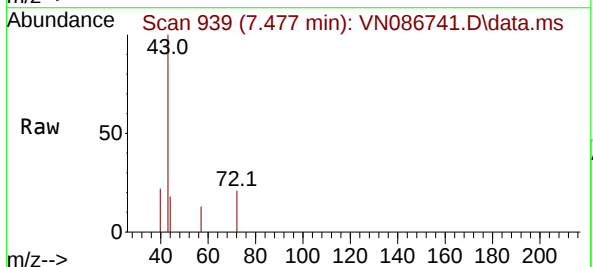
Instrument :
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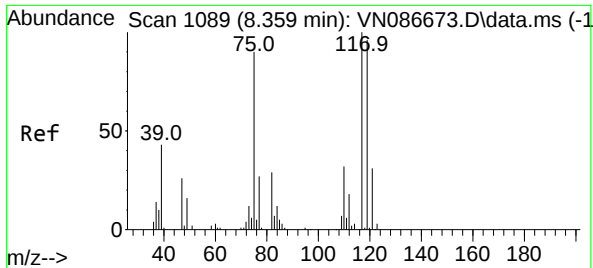
Tgt Ion: 75 Resp: 18379
Ion Ratio Lower Upper
75 100
110 8.0 17.5 52.5#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 1.329 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.082 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

Tgt Ion: 43 Resp: 5512
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.4 14.0#

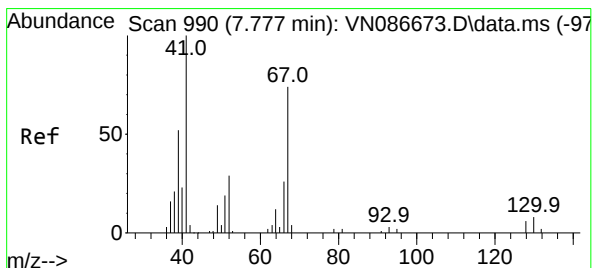
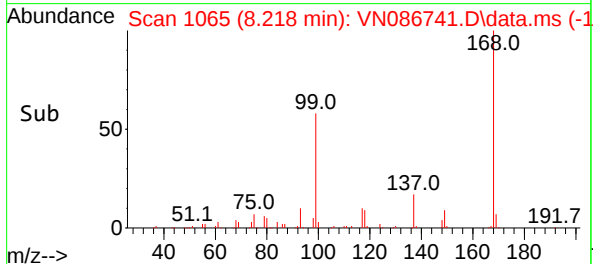
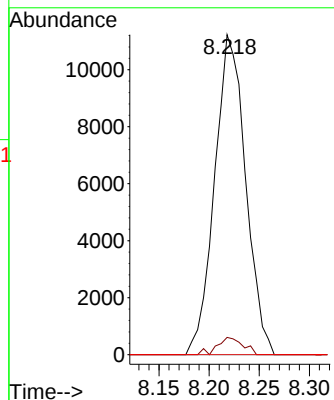
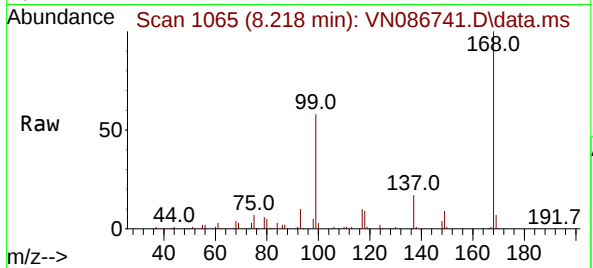




#38
Carbon Tetrachloride
Concen: 5.975 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

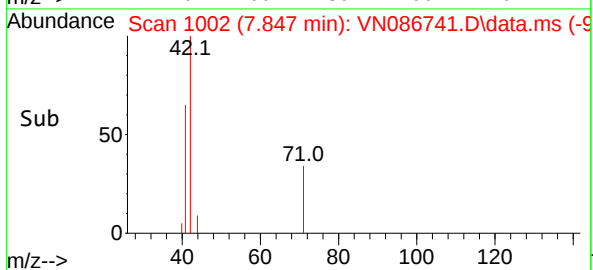
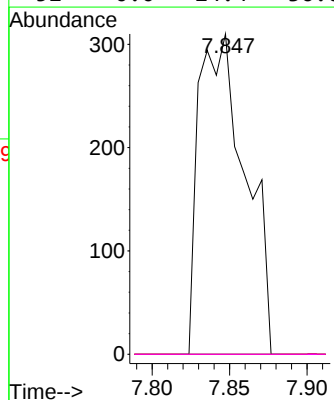
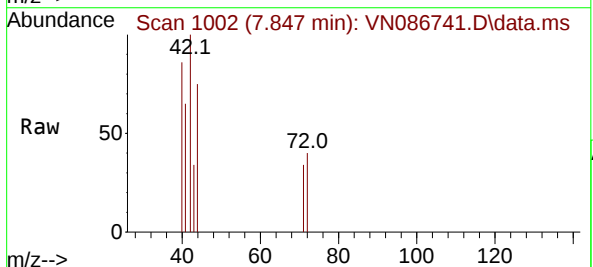
Instrument :
MSVOA_N
ClientSampleId :
WCS-TP1

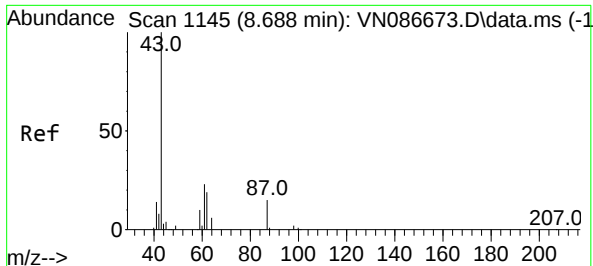
Tgt Ion:117 Resp: 24166
Ion Ratio Lower Upper
117 100
119 5.4 77.0 115.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.289 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.071 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

Tgt Ion: 41 Resp: 647
Ion Ratio Lower Upper
41 100
39 0.0 44.9 67.3#
67 0.0 63.4 95.0#
52 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 3.588 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN086741.D

Acq: 21 May 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

WCS-TP1

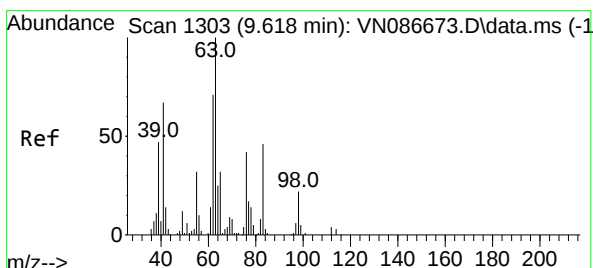
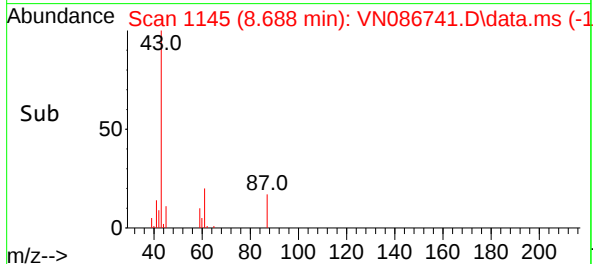
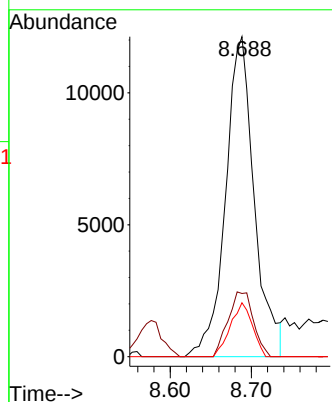
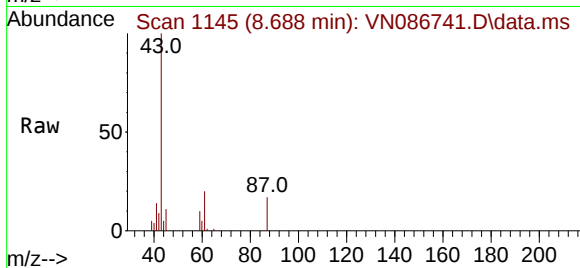
Tgt Ion: 43 Resp: 29822

Ion Ratio Lower Upper

43 100

61 17.9 21.4 32.2#

87 12.9 11.1 16.7



#45

1,2-Dichloropropane

Concen: 0.374 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086741.D

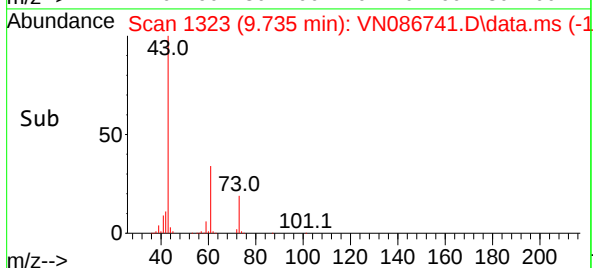
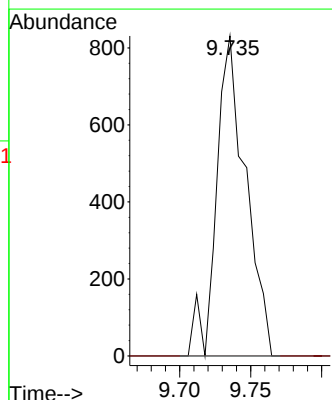
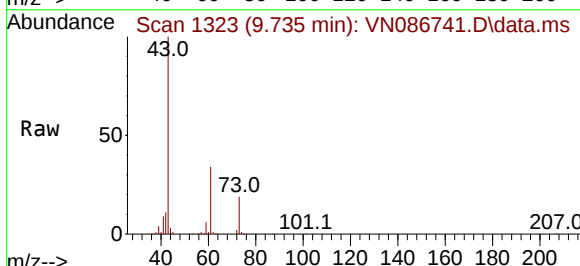
Acq: 21 May 2025 19:06

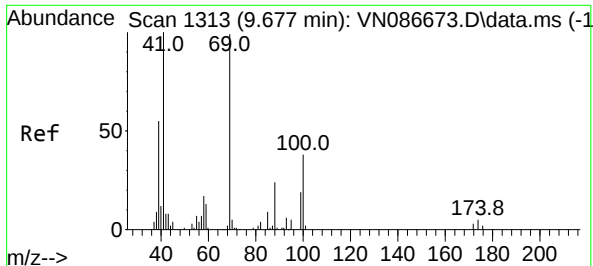
Tgt Ion: 63 Resp: 1189

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#





#48

Methyl methacrylate

Concen: 23.112 ug/l

RT: 9.735 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN086741.D

Acq: 21 May 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

WCS-TP1

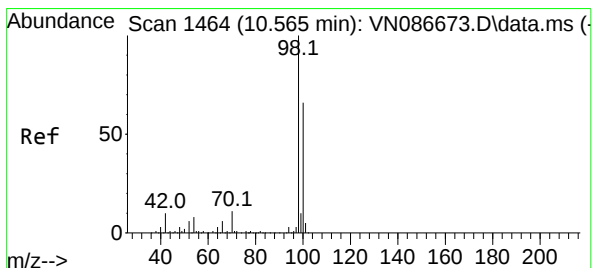
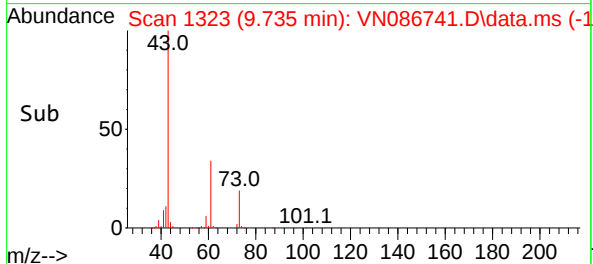
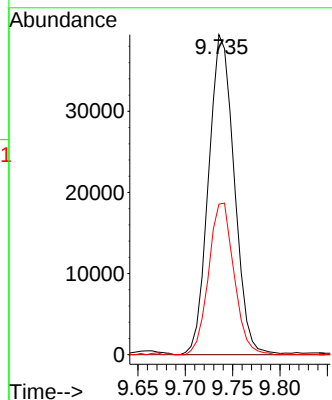
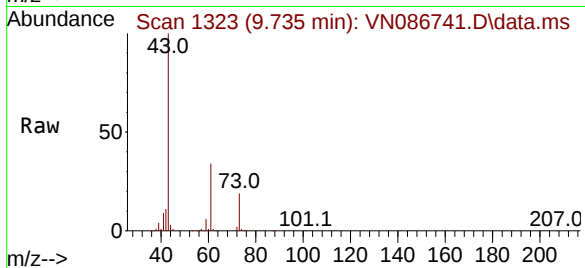
Tgt Ion: 41 Resp: 74444

Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 46.9 44.1 66.1



#50

Toluene-d8

Concen: 51.412 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086741.D

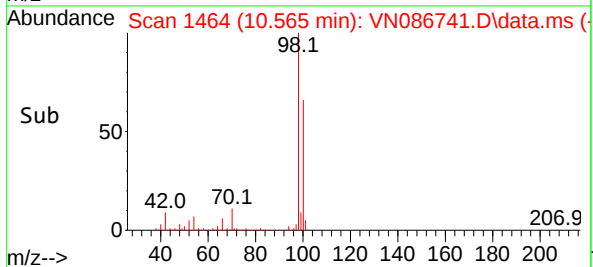
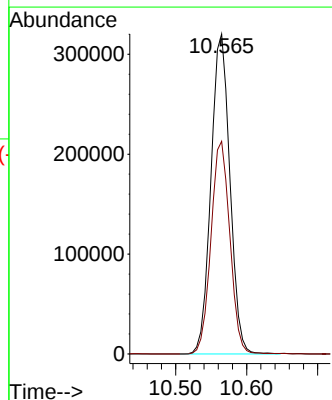
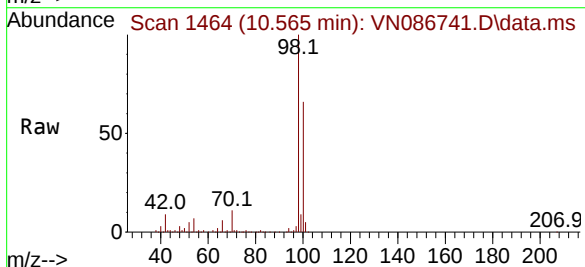
Acq: 21 May 2025 19:06

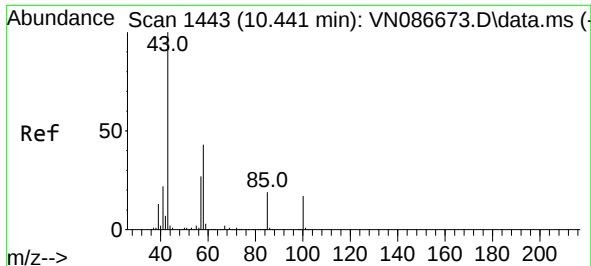
Tgt Ion: 98 Resp: 592898

Ion Ratio Lower Upper

98 100

100 66.3 52.9 79.3

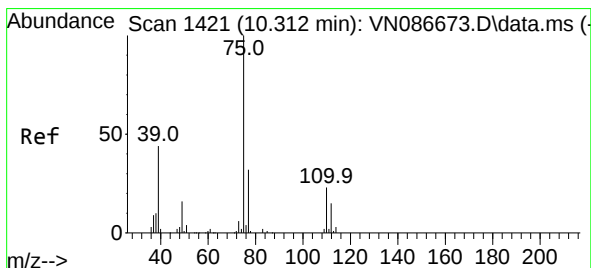
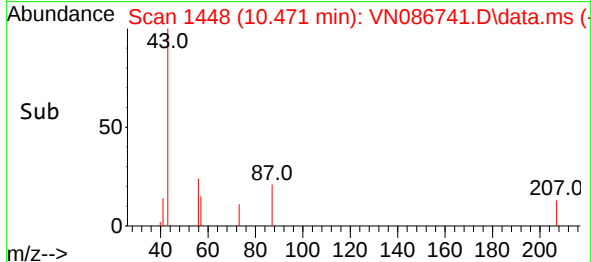
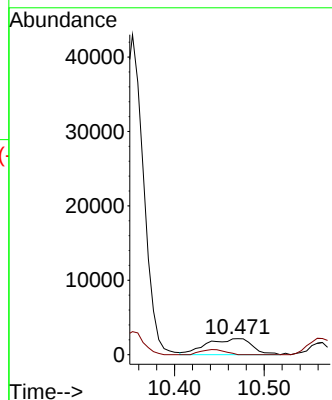
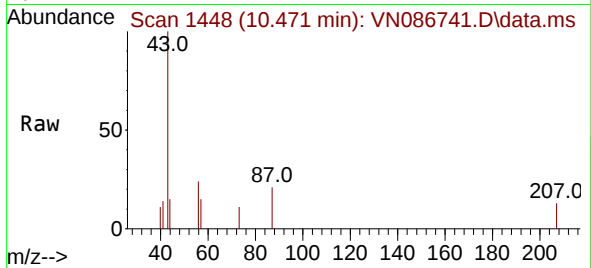




#51
4-Methyl-2-Pentanone
Concen: 1.814 ug/l
RT: 10.471 min Scan# 1448
Delta R.T. 0.029 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

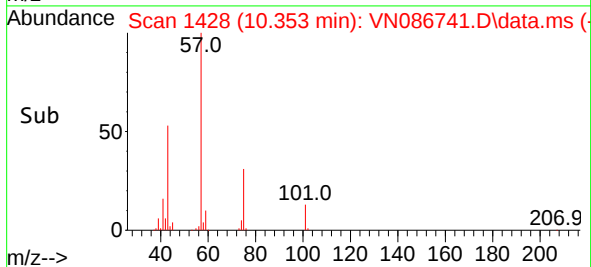
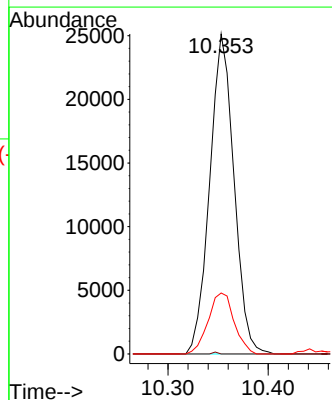
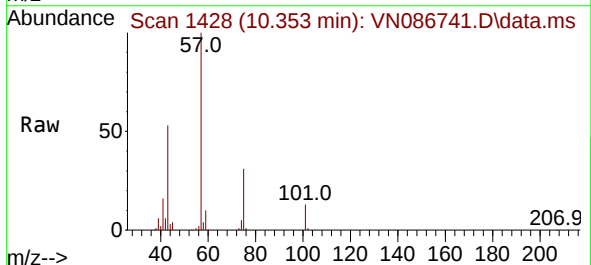
Instrument :
MSVOA_N
ClientSampleId :
WCS-TP1

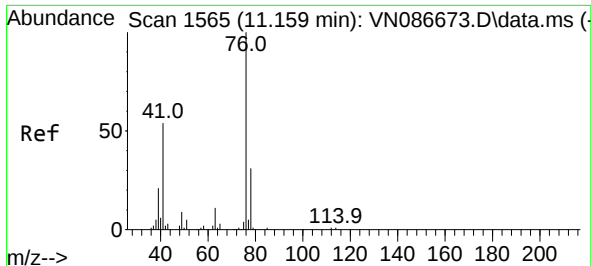
Tgt Ion: 43 Resp: 7602
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#



#54
cis-1,3-Dichloropropene
Concen: 8.271 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

Tgt Ion: 75 Resp: 42277
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 19.1 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.690 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086741.D

Acq: 21 May 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

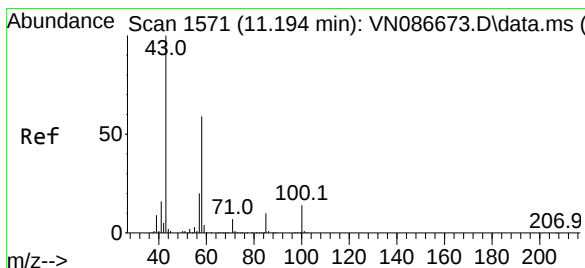
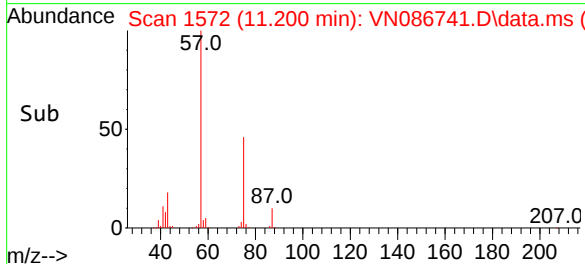
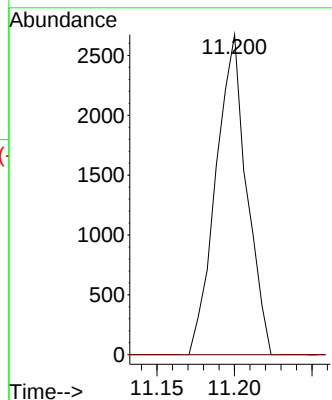
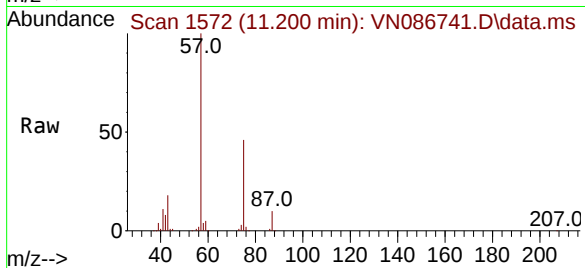
WCS-TP1

Tgt Ion: 76 Resp: 3693

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 20.521 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086741.D

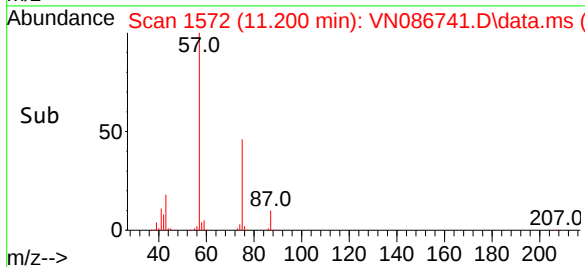
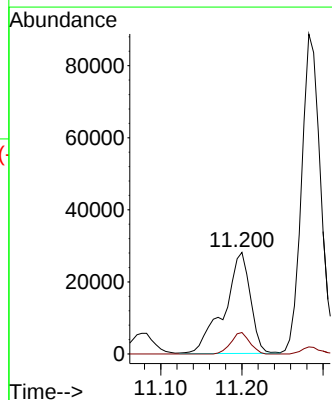
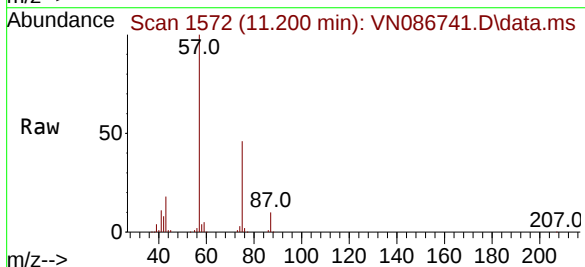
Acq: 21 May 2025 19:06

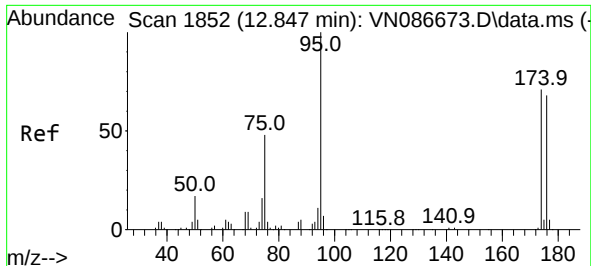
Tgt Ion: 43 Resp: 62817

Ion Ratio Lower Upper

43 100

58 15.2 29.8 89.5#

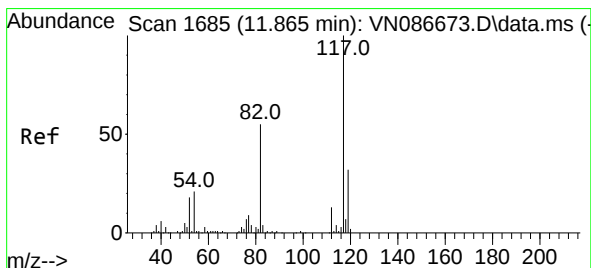
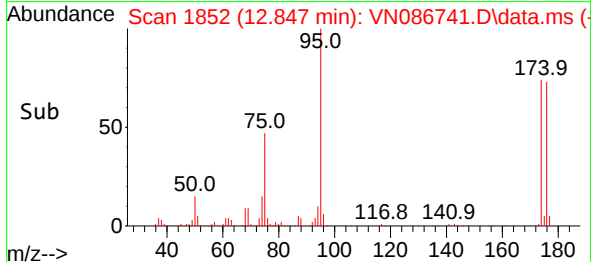
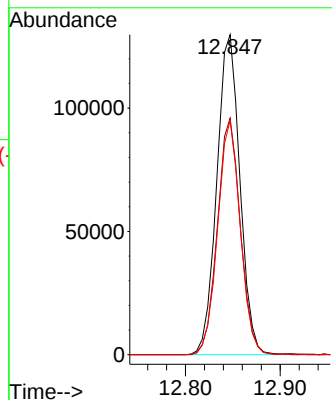
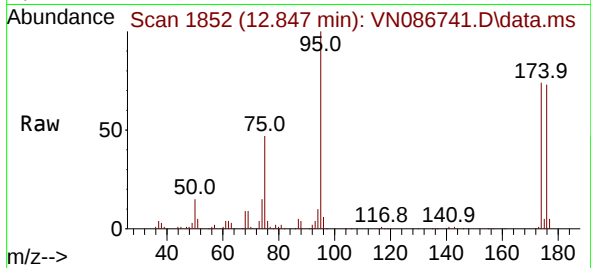




#62
4-Bromofluorobenzene
Concen: 54.018 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

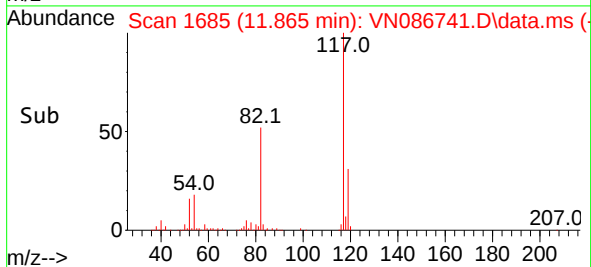
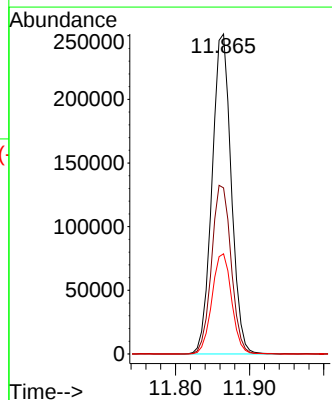
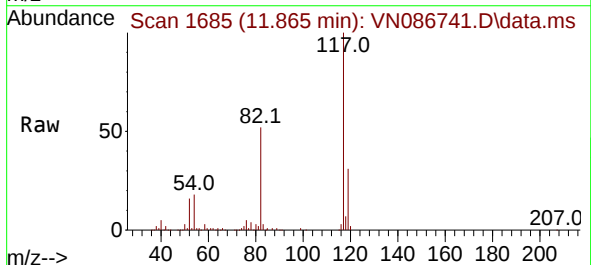
Instrument :
MSVOA_N
ClientSampleId :
WCS-TP1

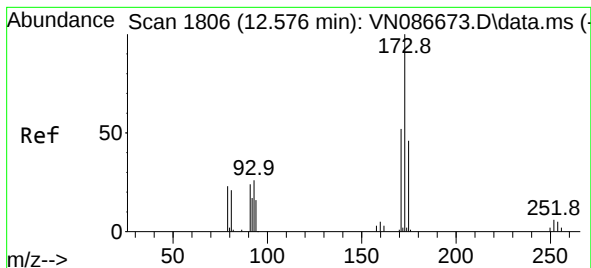
Tgt Ion: 95 Resp: 219961
Ion Ratio Lower Upper
95 100
174 73.3 0.0 145.4
176 71.4 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

Tgt Ion: 117 Resp: 451108
Ion Ratio Lower Upper
117 100
82 51.9 44.2 66.2
119 31.3 25.4 38.2





#71

Bromoform

Concen: 0.419 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN086741.D

Acq: 21 May 2025 19:06

Instrument :

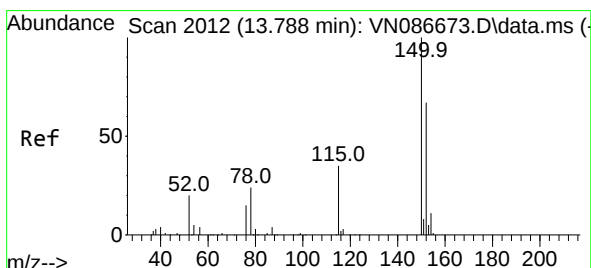
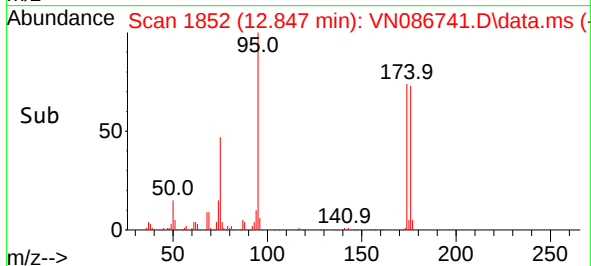
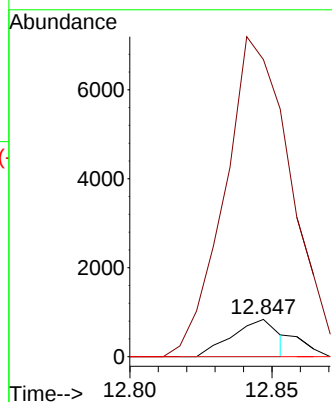
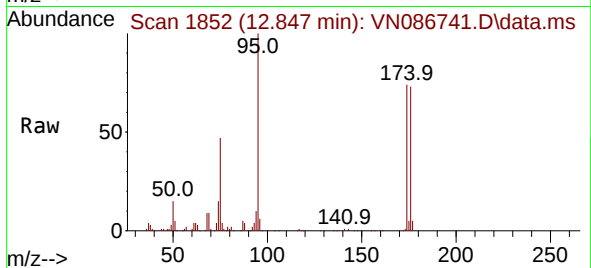
MSVOA_N

ClientSampleId :

WCS-TP1

Tgt Ion:173 Resp: 951

Ion	Ratio	Lower	Upper
173	100		
175	1018.3	23.4	70.2#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

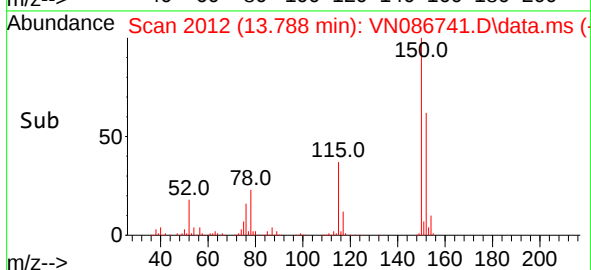
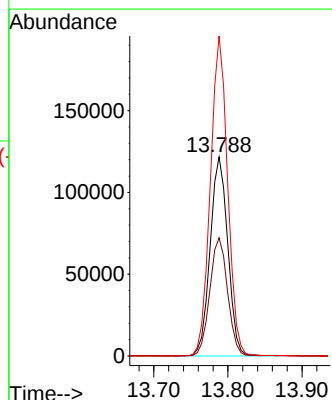
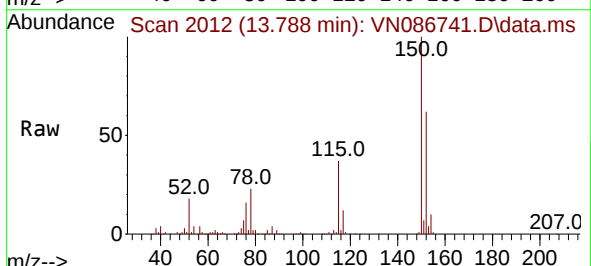
Delta R.T. -0.000 min

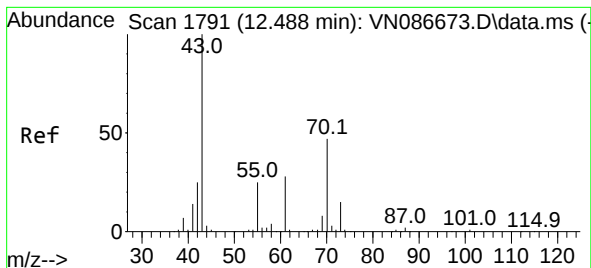
Lab File: VN086741.D

Acq: 21 May 2025 19:06

Tgt Ion:152 Resp: 201270

Ion	Ratio	Lower	Upper
152	100		
115	59.8	30.0	90.1
150	157.2	0.0	347.8

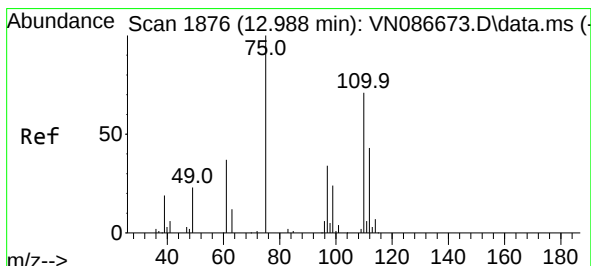
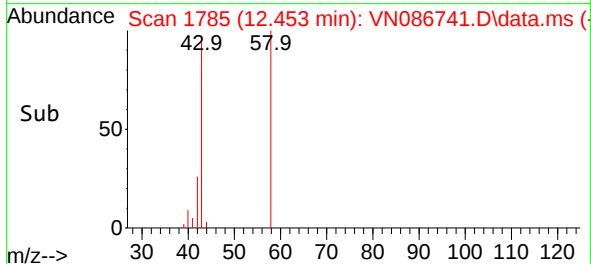
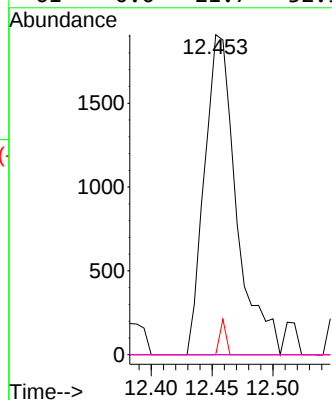
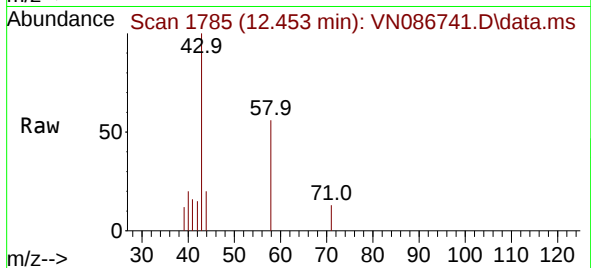




#74
N-amy1 acetate
Concen: 0.539 ug/l
RT: 12.453 min Scan# 1
Delta R.T. -0.035 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

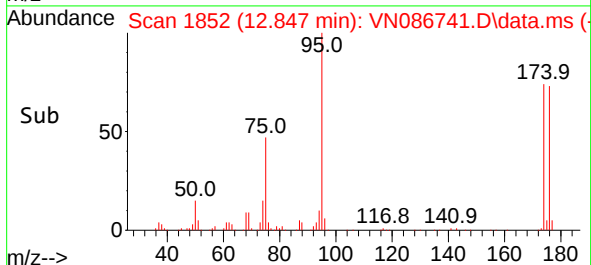
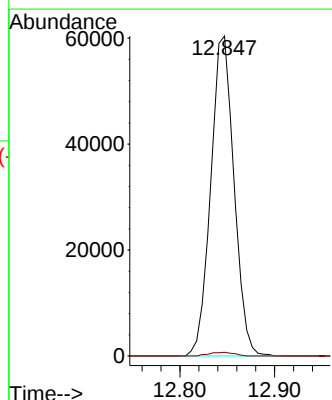
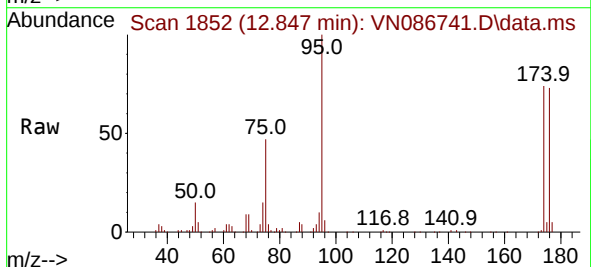
Instrument :
MSVOA_N
ClientSampleId :
WCS-TP1

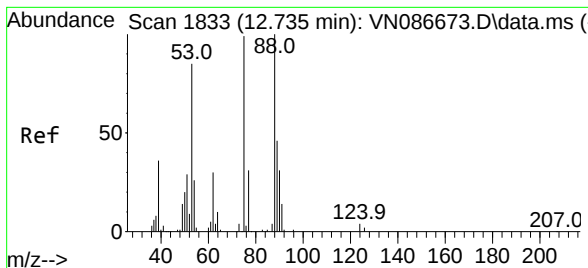
Tgt Ion: 43 Resp: 3502
Ion Ratio Lower Upper
43 100
70 0.0 37.9 56.9#
55 2.1 20.5 30.7#
61 0.0 21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 22.623 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

Tgt Ion: 75 Resp: 102979
Ion Ratio Lower Upper
75 100
77 1.2 96.0 288.1#

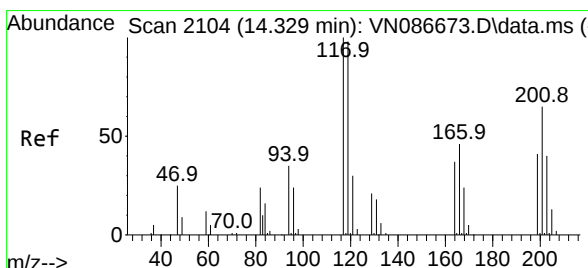
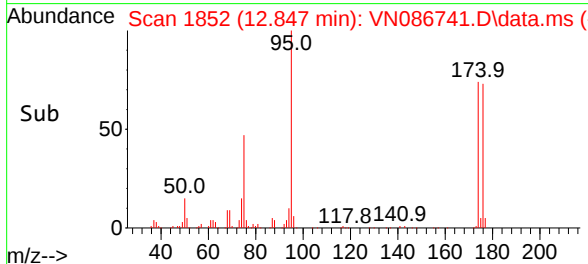
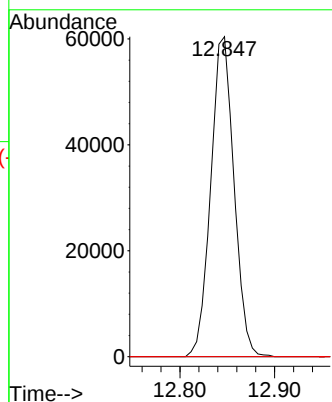
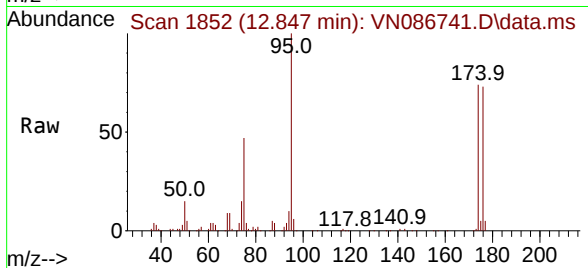




#81
trans-1,4-Dichloro-2-butene
Concen: 57.093 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

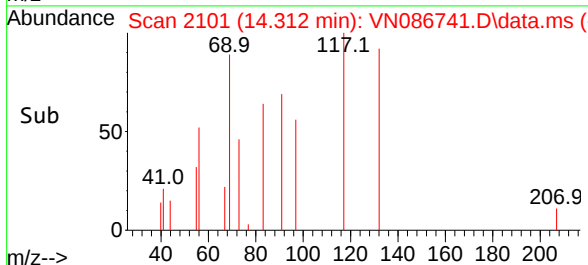
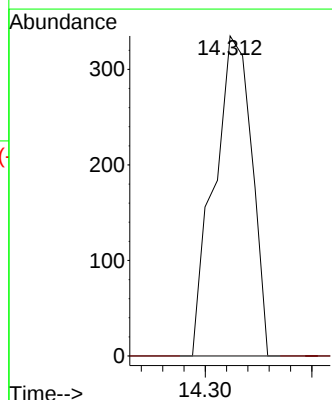
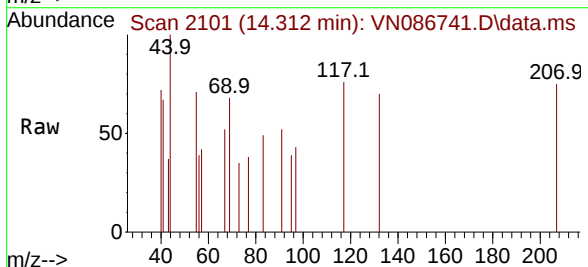
Instrument :
MSVOA_N
ClientSampleId :
WCS-TP1

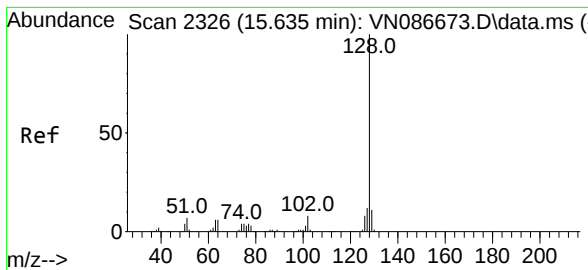
Tgt Ion: 75 Resp: 102979
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#



#90
Hexachloroethane
Concen: 0.208 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. -0.018 min
Lab File: VN086741.D
Acq: 21 May 2025 19:06

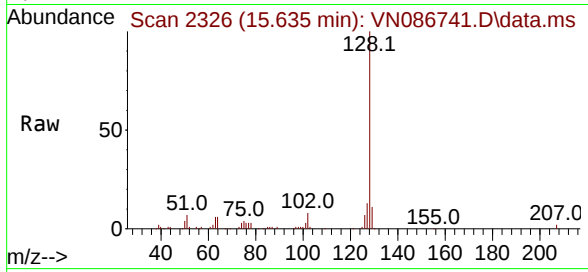
Tgt Ion: 117 Resp: 411
Ion Ratio Lower Upper
117 100
201 0.0 32.0 96.0#





#95
 Naphthalene
 Concen: 10.198 ug/l
 RT: 15.635 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN086741.D
 Acq: 21 May 2025 19:06

Instrument :
 MSVOA_N
 ClientSampleId :
 WCS-TP1



Tgt Ion:	128	Resp:	96264
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.2	8.6	13.0

