

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
 Data File : VN087217.D
 Acq On : 27 Jun 2025 13:31
 Operator : JC\MD
 Sample : Q2415-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1

Quant Time: Jun 27 23:44:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 27 05:55:21 2025
 Response via : Initial Calibration

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

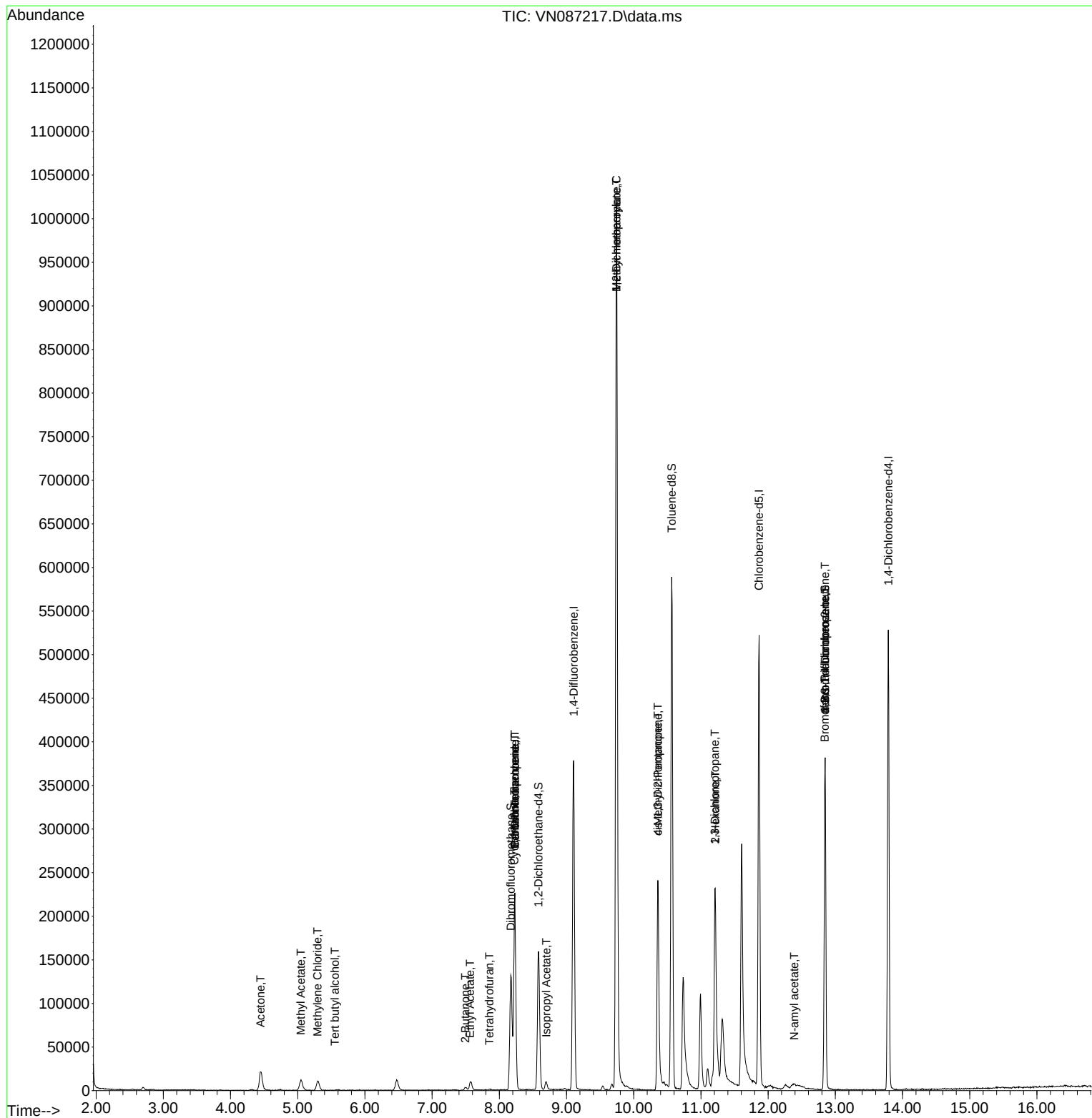
Internal Standards						
1) Pentafluorobenzene	8.230	168	164411	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	341041	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	303735	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146320	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	134944	57.034	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	114.060%
35) Dibromofluoromethane	8.171	113	103447	46.918	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.840%
50) Toluene-d8	10.565	98	426341	46.752	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.500%
62) 4-Bromofluorobenzene	12.847	95	144440	45.647	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	91.300%
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.553	59	143	0.274	ug/l #	73
14) Allyl chloride	5.059	41	137	Below Cal	#	23
16) Acetone	4.448	43	45711	28.317	ug/l	96
17) Carbon Disulfide	4.742	76	391	Below Cal	#	76
18) Methyl Acetate	5.048	43	26136	8.323	ug/l	99
20) Methylene Chloride	5.295	84	9398	2.726	ug/l #	91
25) 2-Butanone	7.494	43	5427	3.025	ug/l #	84
29) Tetrahydrofuran	7.853	42	599	0.509	ug/l #	54
31) Cyclohexane	8.224	56	3662	1.000	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	13553	4.197	ug/l #	49
37) Ethyl Acetate	7.565	43	16951	1.865	ug/l	100
38) Carbon Tetrachloride	8.230	117	16996	5.404	ug/l #	14
43) Isopropyl Acetate	8.700	43	11495	1.936	ug/l #	91
45) 1,2-Dichloropropane	9.741	63	1231	0.479	ug/l #	44
48) Methyl methacrylate	9.741	41	93695	32.640	ug/l #	39
51) 4-Methyl-2-Pentanone	10.359	43	101349	21.169	ug/l #	45
54) cis-1,3-Dichloropropene	10.359	75	55159	13.281	ug/l #	60
56) Ethyl methacrylate	10.800	69	118	Below Cal	#	28
57) 1,3-Dichloropropane	11.206	76	3626	0.851	ug/l #	43
59) 2-Hexanone	11.212	43	52540	19.891	ug/l #	43
71) Bromoform	12.841	173	850	0.532	ug/l #	1
74) N-amyl acetate	12.388	43	3731	1.012	ug/l #	48
76) 1,2,3-Trichloropropane	12.847	75	72503	22.209	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	72503	49.846	ug/l #	13

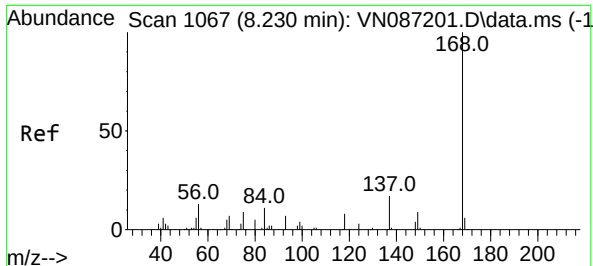
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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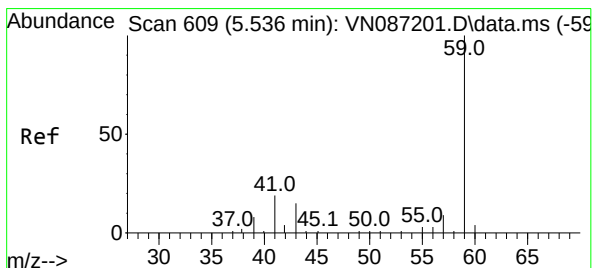
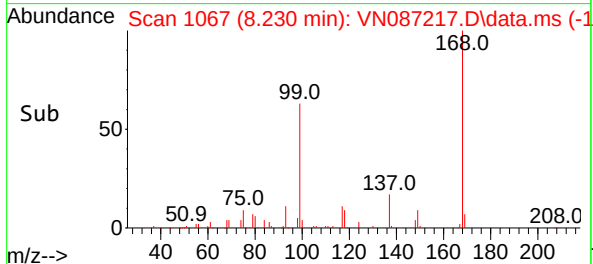
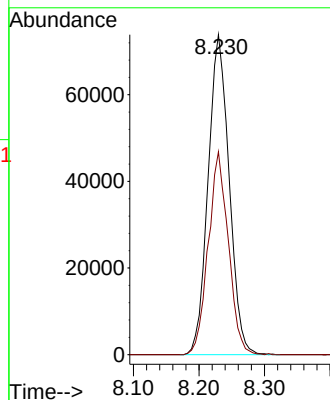
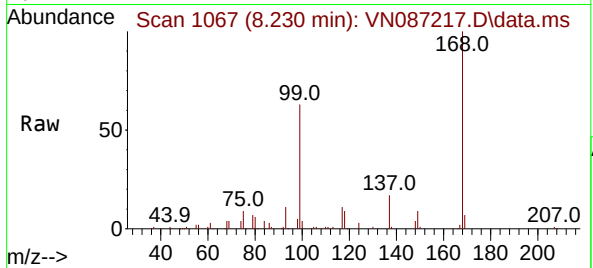




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

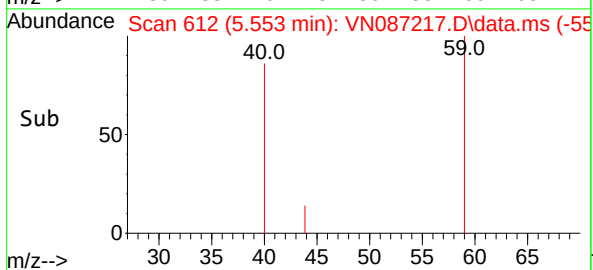
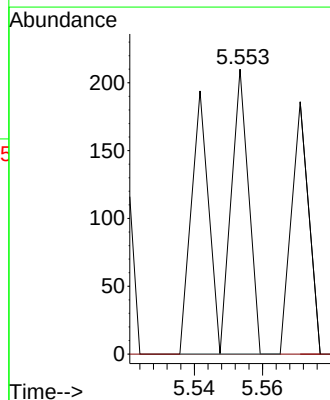
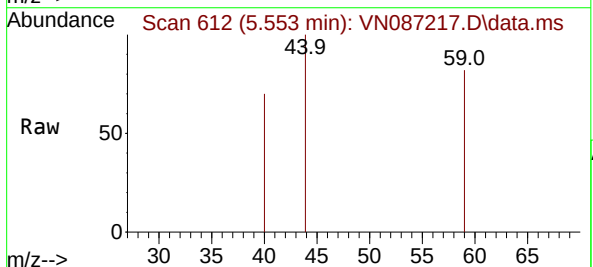
Instrument :
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WC-1

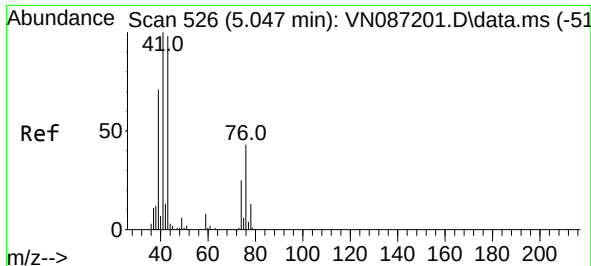
Tgt Ion:168 Resp: 164411
Ion Ratio Lower Upper
168 100
99 63.4 47.9 71.9



#11
Tert butyl alcohol
Concen: 0.274 ug/l
RT: 5.553 min Scan# 612
Delta R.T. 0.017 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion: 59 Resp: 143
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

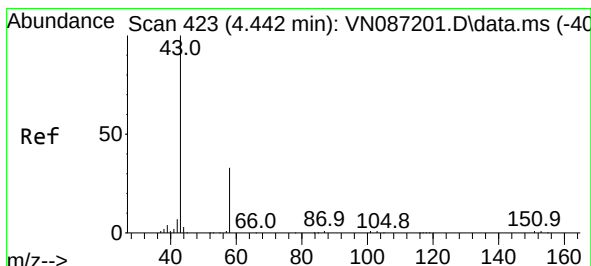
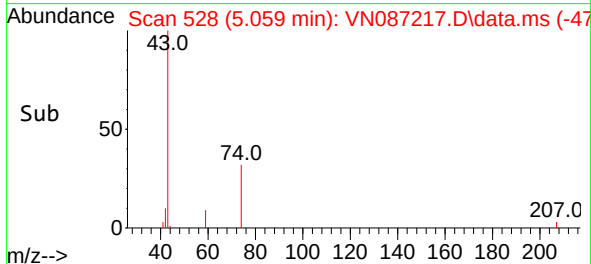
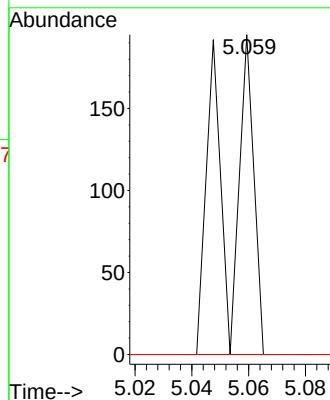
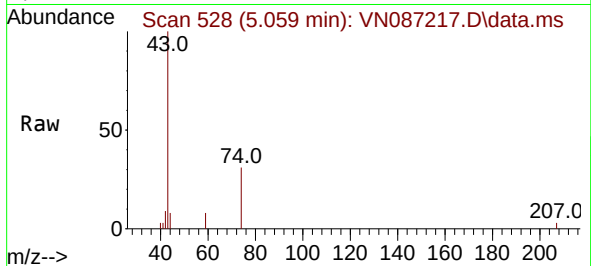




#14
 Allyl chloride
 Concen: Below Cal
 RT: 5.059 min Scan# 51
 Delta R.T. 0.012 min
 Lab File: VN087217.D
 Acq: 27 Jun 2025 13:31

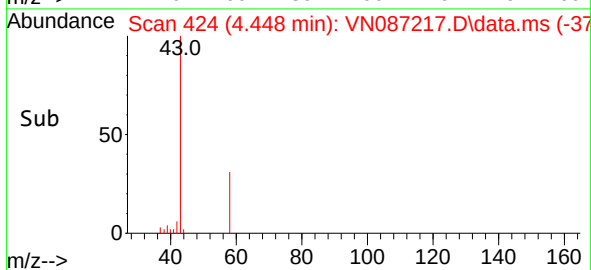
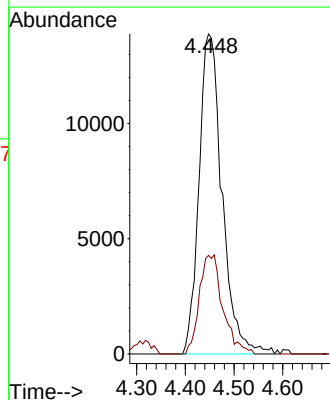
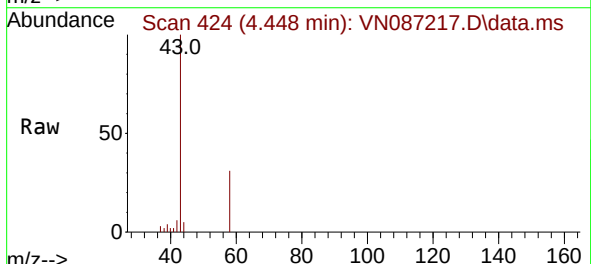
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1

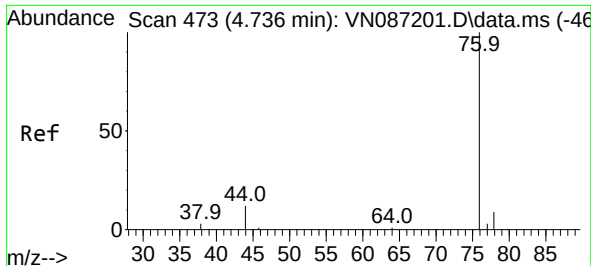
Tgt Ion: 41 Resp: 137
 Ion Ratio Lower Upper
 41 100
 39 0.0 55.0 82.6#
 76 0.0 31.3 46.9#



#16
 Acetone
 Concen: 28.317 ug/l
 RT: 4.448 min Scan# 424
 Delta R.T. 0.006 min
 Lab File: VN087217.D
 Acq: 27 Jun 2025 13:31

Tgt Ion: 43 Resp: 45711
 Ion Ratio Lower Upper
 43 100
 58 30.8 26.5 39.7

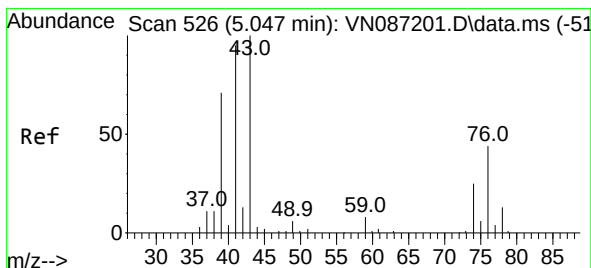
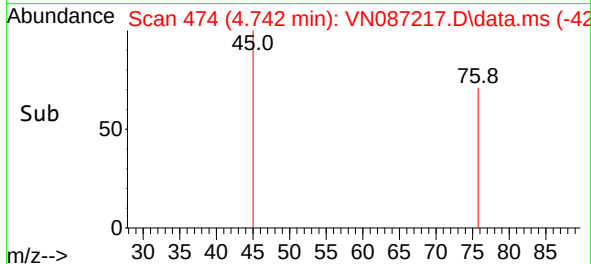
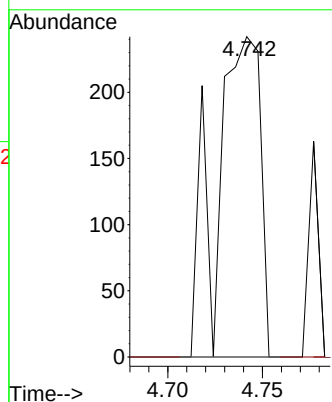
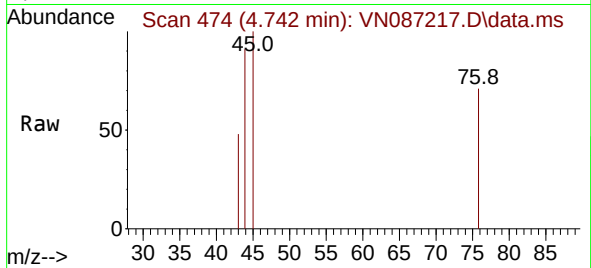




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.742 min Scan# 473
Delta R.T. 0.006 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

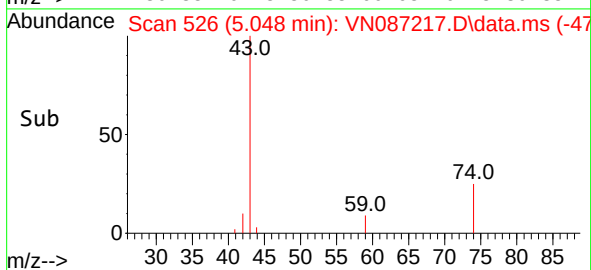
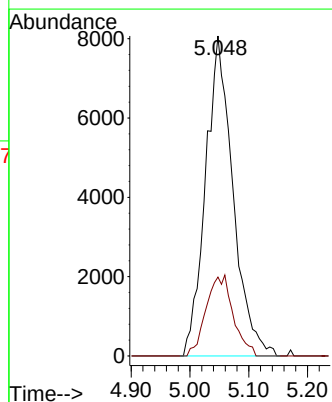
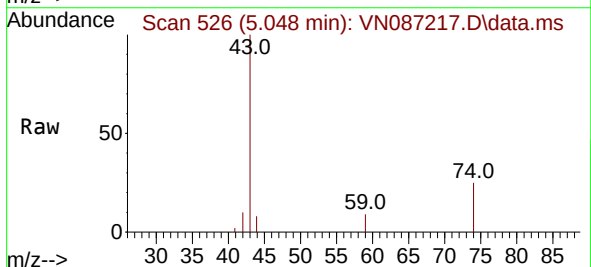
Instrument :
MSVOA_N
ClientSampleId :
WC-1

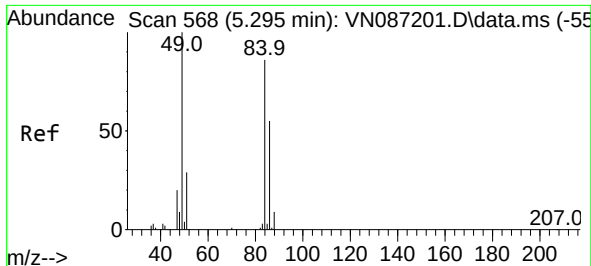
Tgt Ion: 76 Resp: 391
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methyl Acetate
Concen: 8.323 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.001 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion: 43 Resp: 26136
Ion Ratio Lower Upper
43 100
74 24.9 19.4 29.2

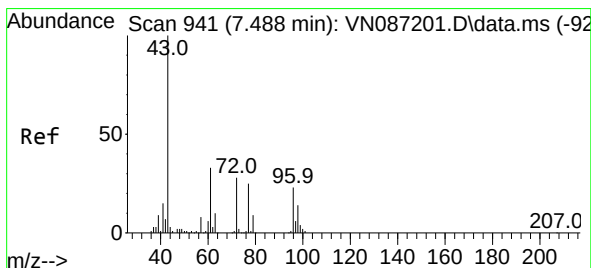
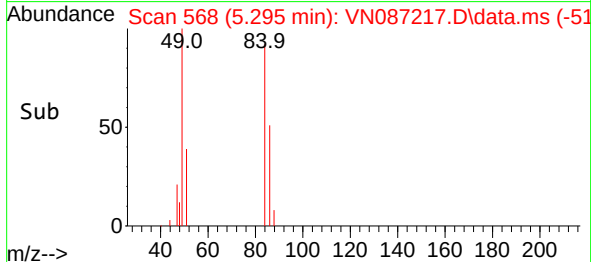
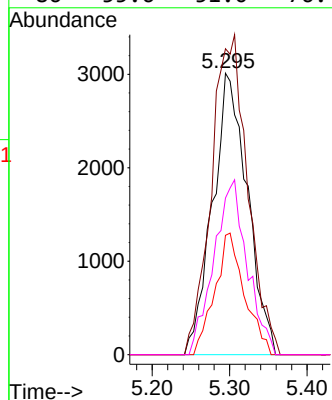
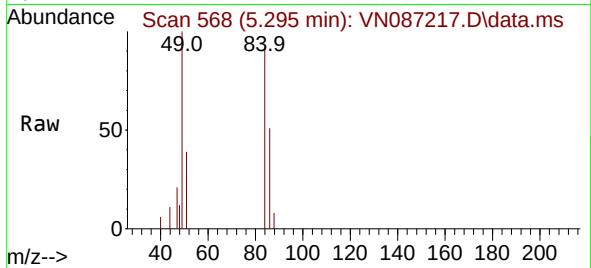




#20
Methylene Chloride
Concen: 2.726 ug/l
RT: 5.295 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

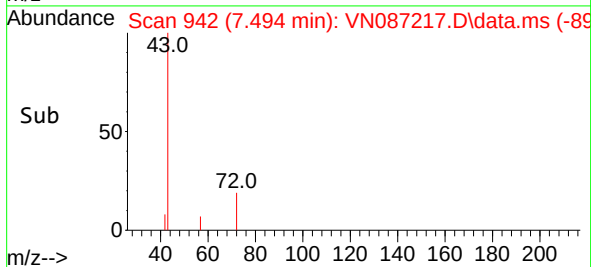
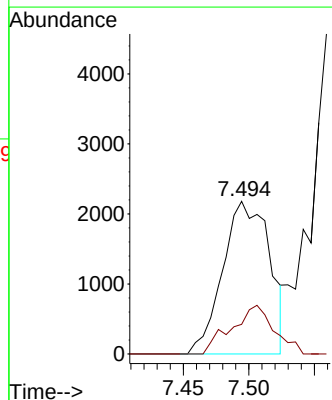
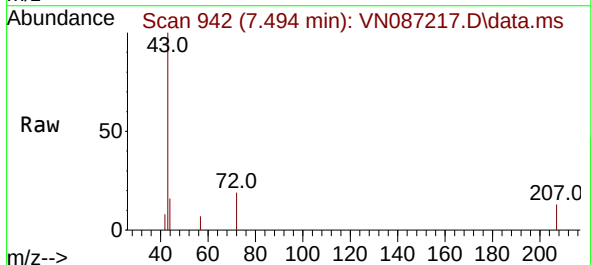
Instrument :
MSVOA_N
ClientSampleId :
WC-1

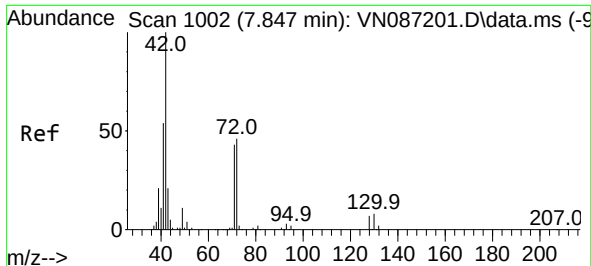
Tgt Ion: 84	Resp: 9398
Ion Ratio	Lower Upper
84 100	
49 108.7	93.0 139.6
51 42.4	27.2 40.8#
86 55.6	51.0 76.4



#25
2-Butanone
Concen: 3.025 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion: 43	Resp: 5427
Ion Ratio	Lower Upper
43 100	
72 19.3	22.2 33.2#





#29

Tetrahydrofuran

Concen: 0.509 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN087217.D

Acq: 27 Jun 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

WC-1

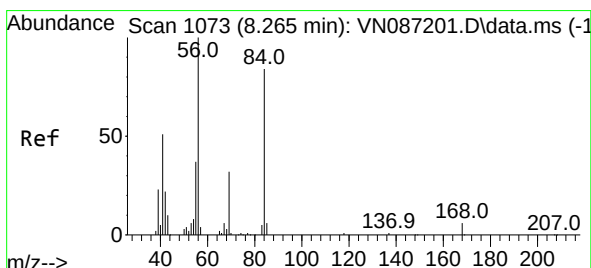
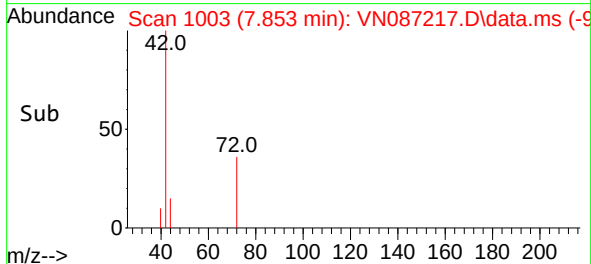
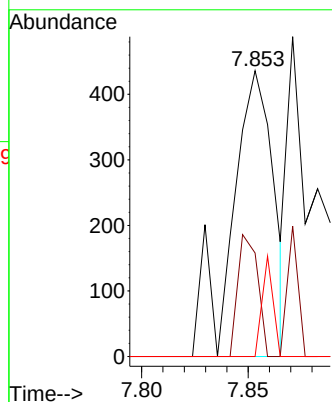
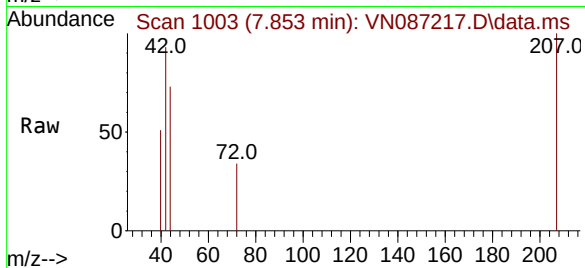
Tgt Ion: 42 Resp: 599

Ion Ratio Lower Upper

42 100

72 20.2 36.9 55.3#

71 9.0 35.0 52.4#



#31

Cyclohexane

Concen: 1.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN087217.D

Acq: 27 Jun 2025 13:31

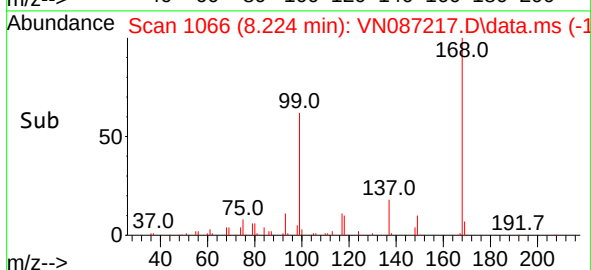
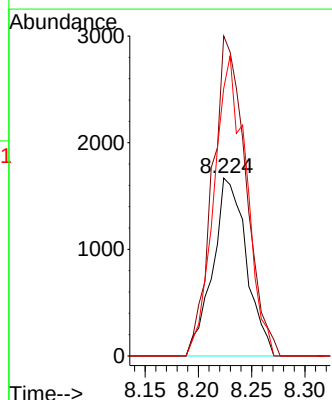
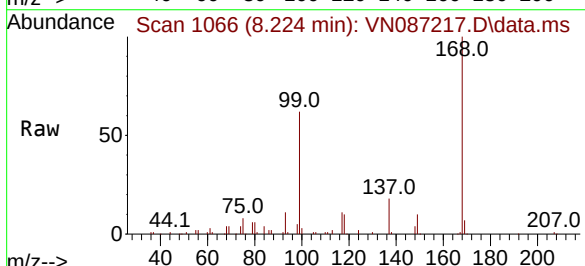
Tgt Ion: 56 Resp: 3662

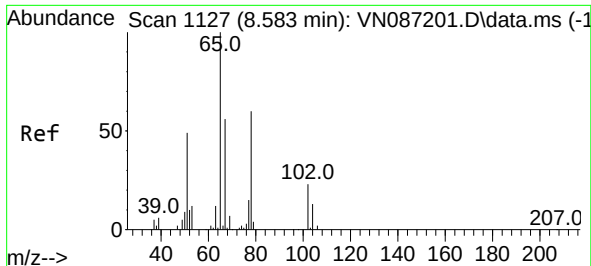
Ion Ratio Lower Upper

56 100

69 179.9 25.3 37.9#

84 150.5 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 57.034 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN087217.D

Acq: 27 Jun 2025 13:31

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ClientSampleId :

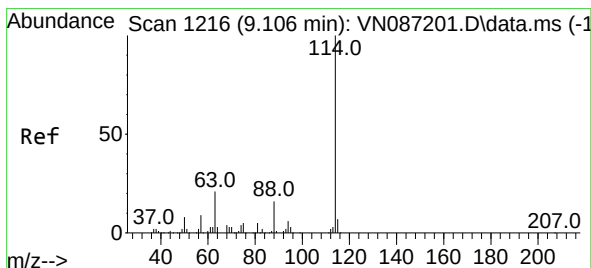
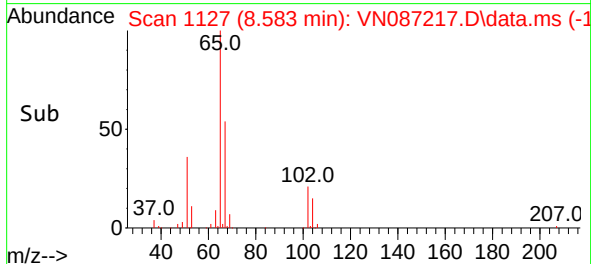
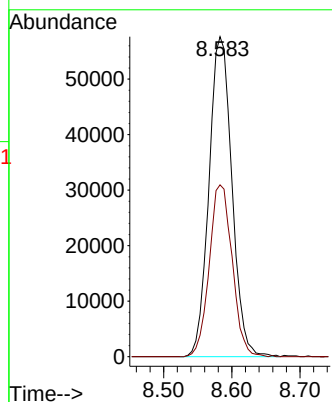
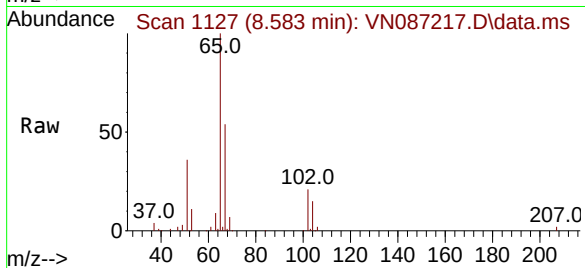
WC-1

Tgt Ion: 65 Resp: 134944

Ion Ratio Lower Upper

65 100

67 53.7 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN087217.D

Acq: 27 Jun 2025 13:31

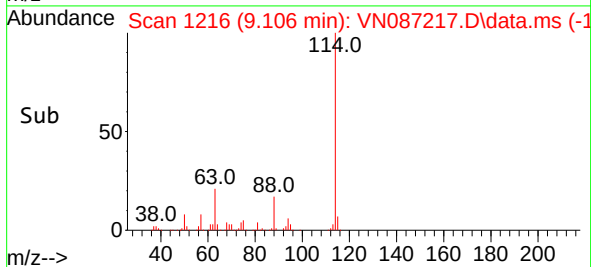
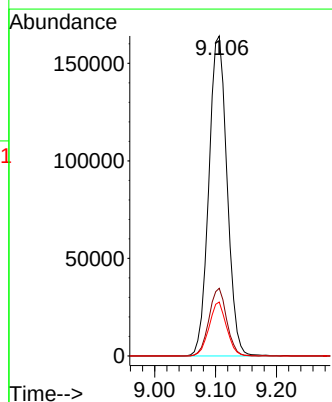
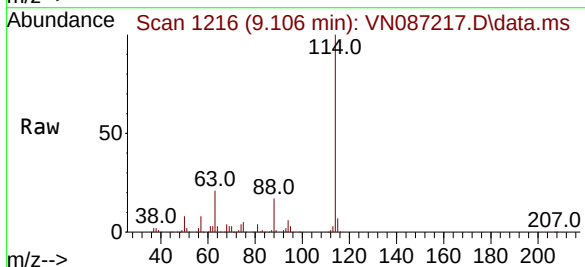
Tgt Ion: 114 Resp: 341041

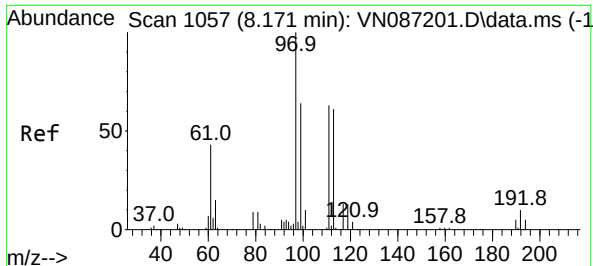
Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.0

88 16.9 0.0 32.0

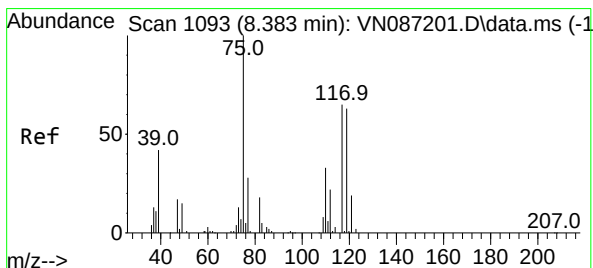
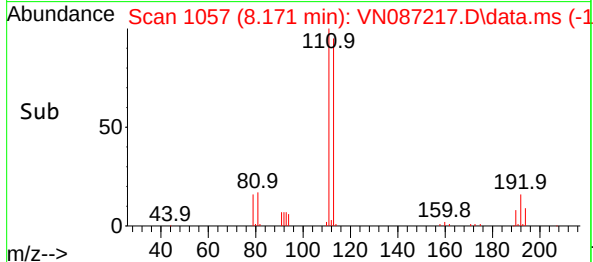
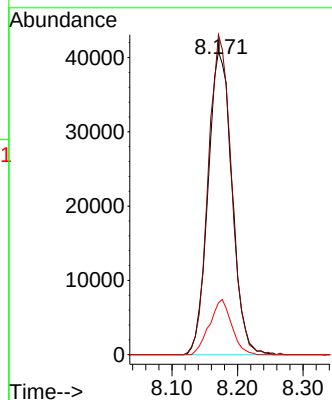
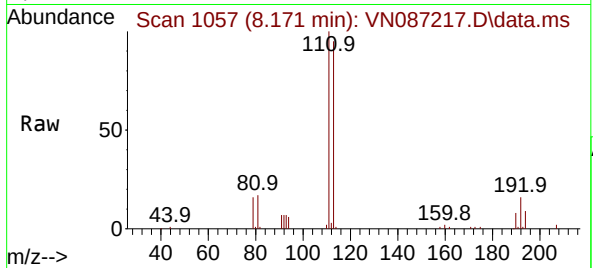




#35
Dibromofluoromethane
Concen: 46.918 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

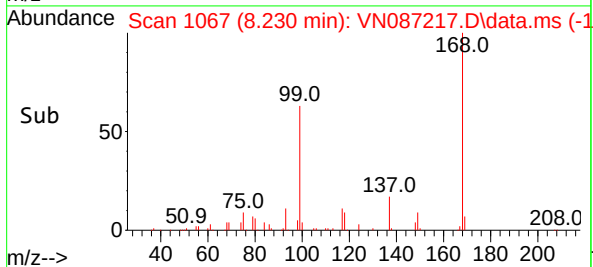
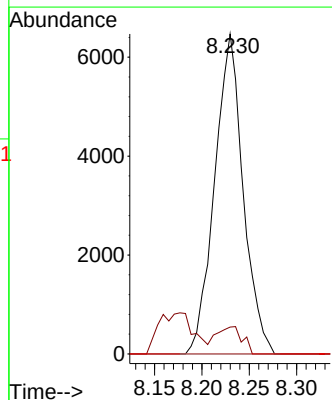
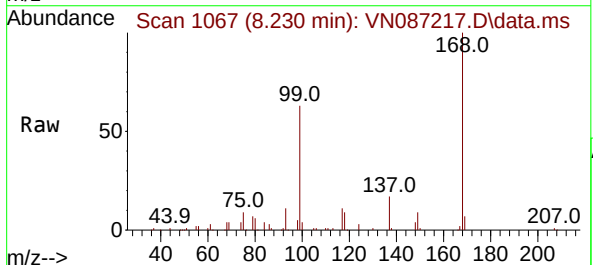
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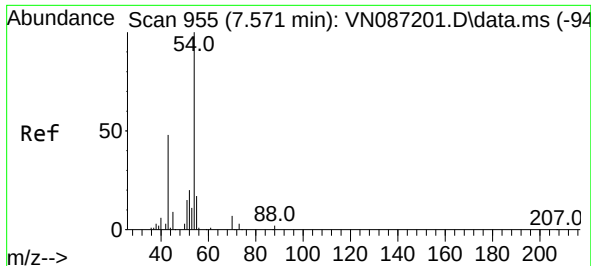
Tgt Ion:113 Resp: 103447
Ion Ratio Lower Upper
113 100
111 102.2 82.6 124.0
192 16.9 13.5 20.3



#36
1,1-Dichloropropene
Concen: 4.197 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.153 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion: 75 Resp: 13553
Ion Ratio Lower Upper
75 100
110 7.8 16.9 50.6#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.865 ug/l

RT: 7.565 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087217.D

Acq: 27 Jun 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

WC-1

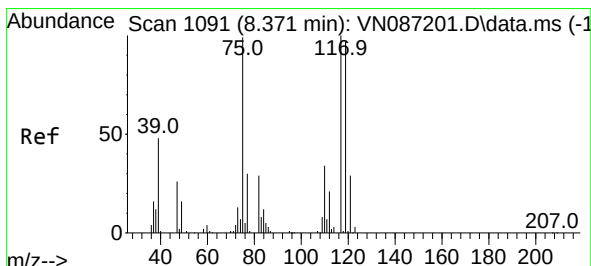
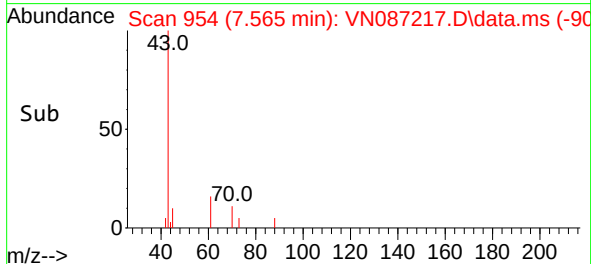
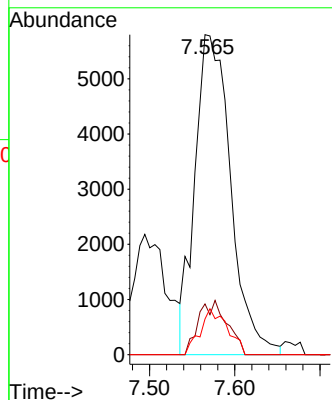
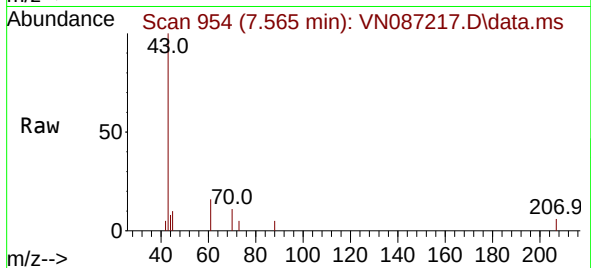
Tgt Ion: 43 Resp: 16951

Ion Ratio Lower Upper

43 100

61 13.5 10.8 16.2

70 10.9 8.9 13.3



#38

Carbon Tetrachloride

Concen: 5.404 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN087217.D

Acq: 27 Jun 2025 13:31

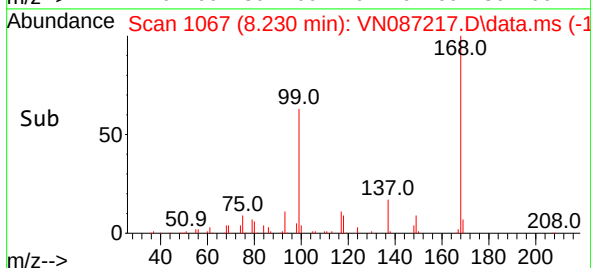
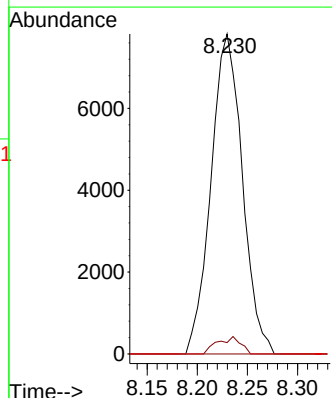
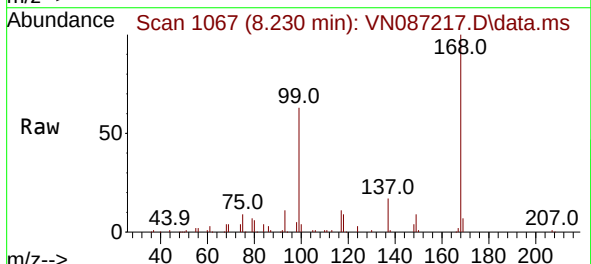
Tgt Ion: 117 Resp: 16996

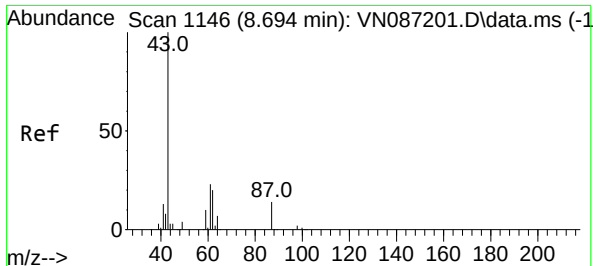
Ion Ratio Lower Upper

117 100

119 3.6 77.4 116.0#

121 0.0 23.2 34.8#

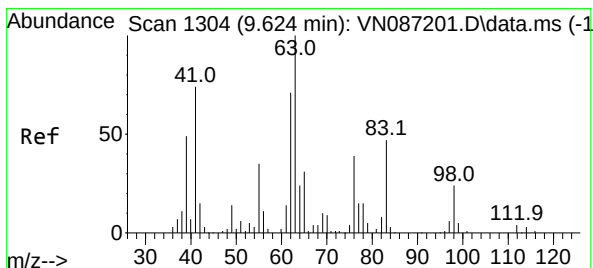
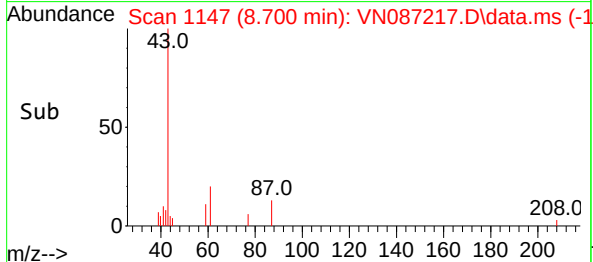
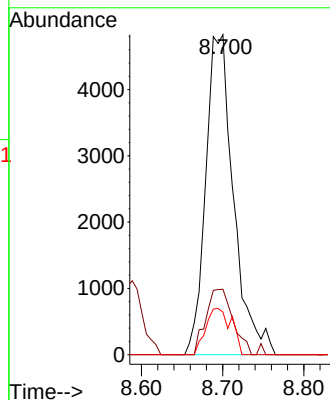
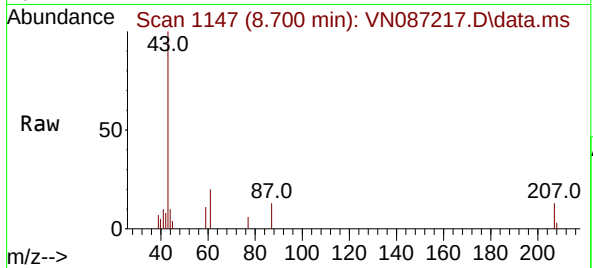




#43
Isopropyl Acetate
Concen: 1.936 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

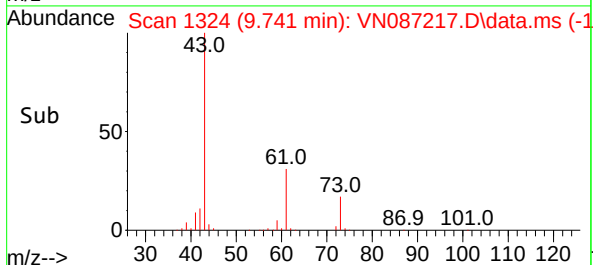
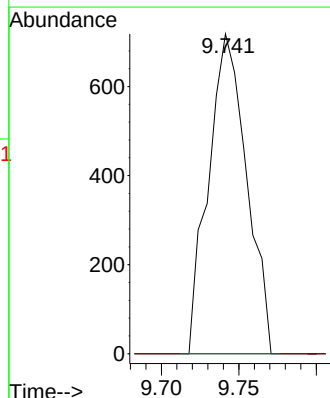
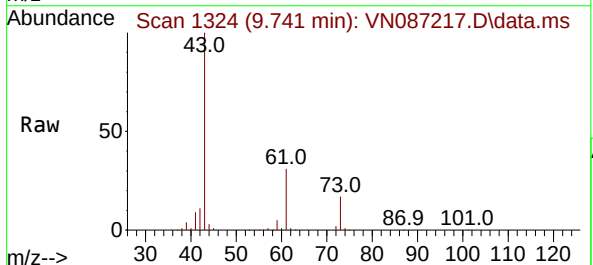
Instrument :
MSVOA_N
ClientSampleId :
WC-1

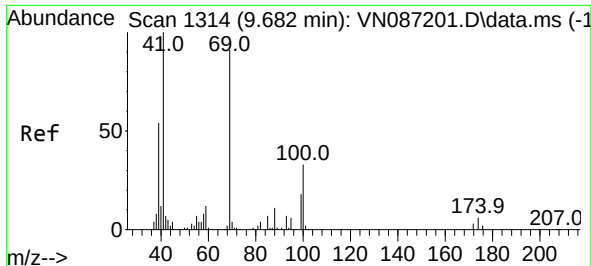
Tgt Ion: 43 Resp: 11495
Ion Ratio Lower Upper
43 100
61 19.9 21.0 31.6#
87 13.3 11.0 16.6



#45
1,2-Dichloropropane
Concen: 0.479 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion: 63 Resp: 1231
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

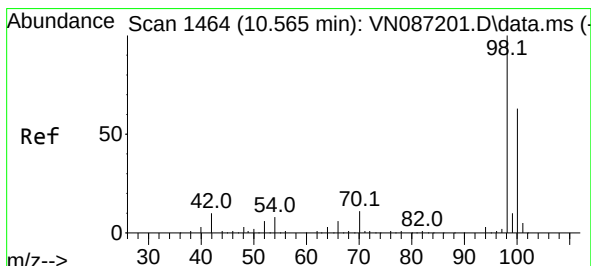
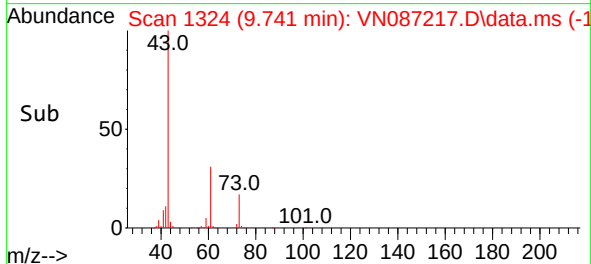
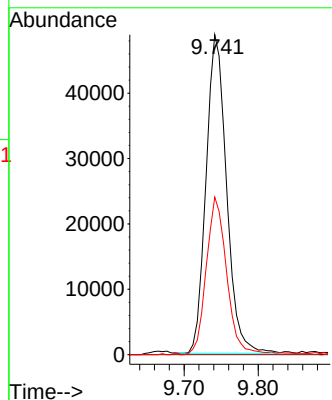
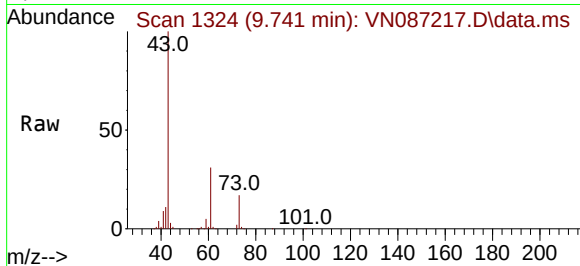




#48
Methyl methacrylate
Concen: 32.640 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

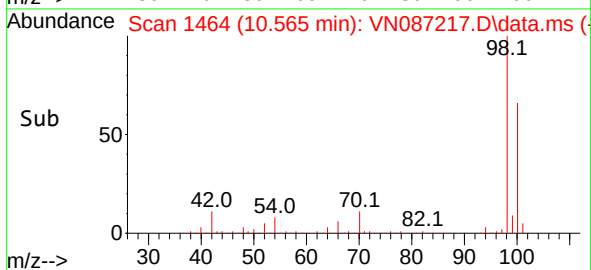
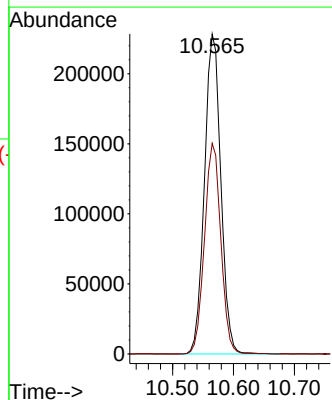
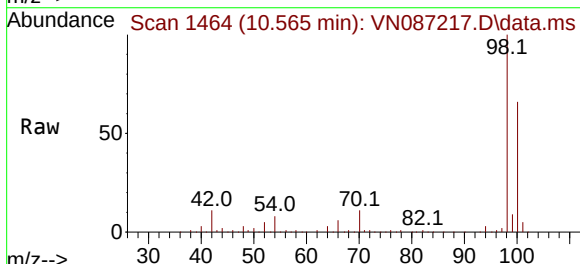
Instrument :
MSVOA_N
ClientSampleId :
WC-1

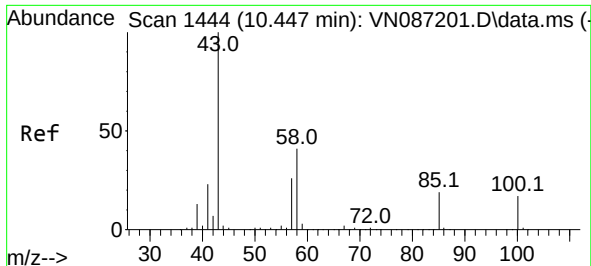
Tgt Ion: 41 Resp: 93695
Ion Ratio Lower Upper
41 100
69 0.0 69.9 104.9#
39 49.8 43.8 65.6



#50
Toluene-d8
Concen: 46.752 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion: 98 Resp: 426341
Ion Ratio Lower Upper
98 100
100 65.7 52.7 79.1

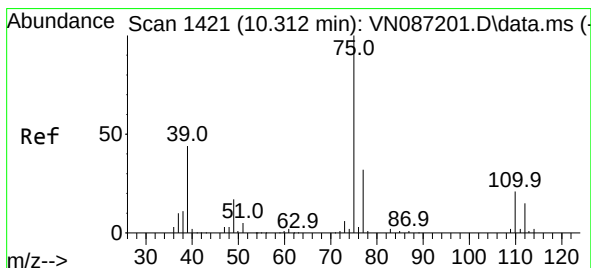
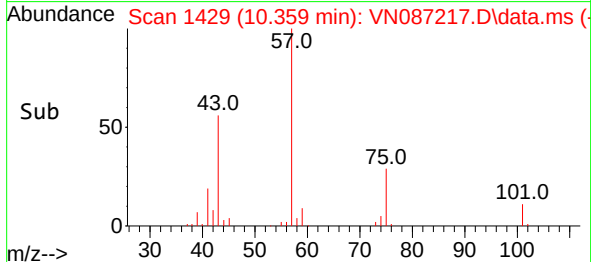
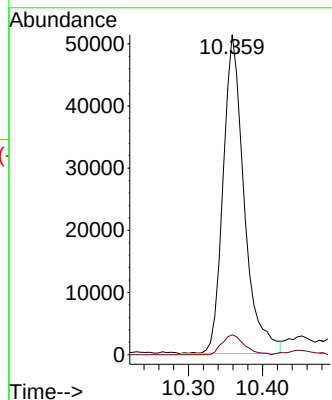
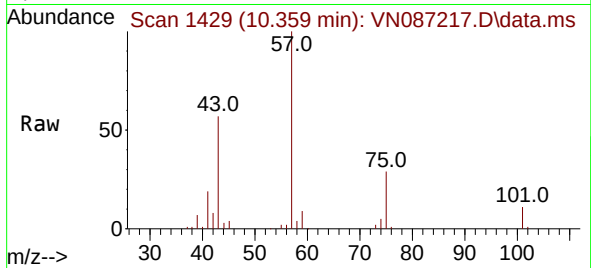




#51
4-Methyl-2-Pentanone
Concen: 21.169 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

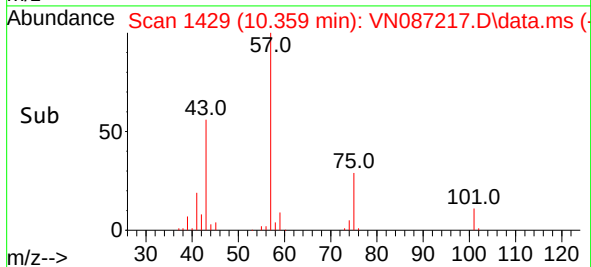
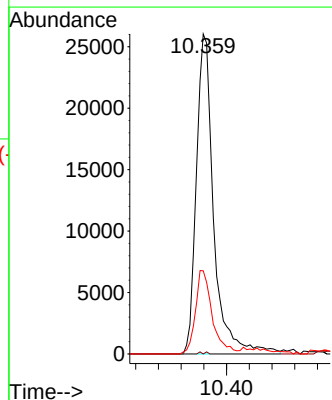
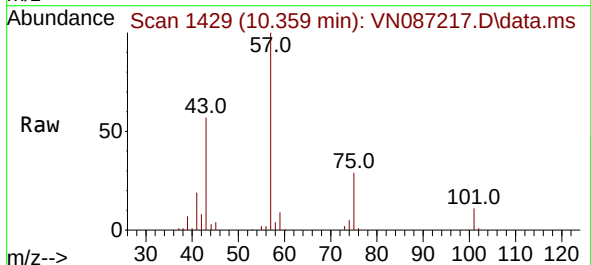
Instrument :
MSVOA_N
ClientSampleId :
WC-1

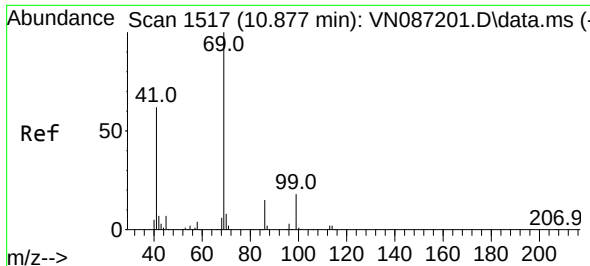
Tgt Ion: 43 Resp: 101349
Ion Ratio Lower Upper
43 100
58 6.6 32.6 48.8#



#54
cis-1,3-Dichloropropene
Concen: 13.281 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion: 75 Resp: 55159
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#
39 26.0 34.9 52.3#

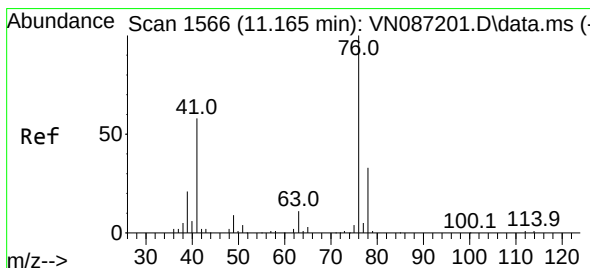
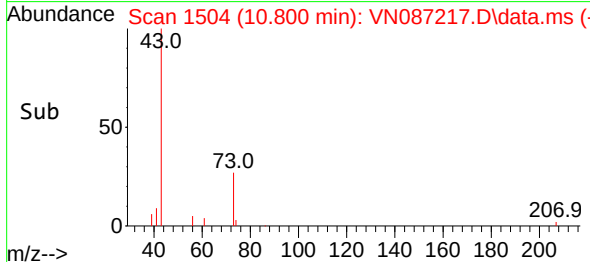
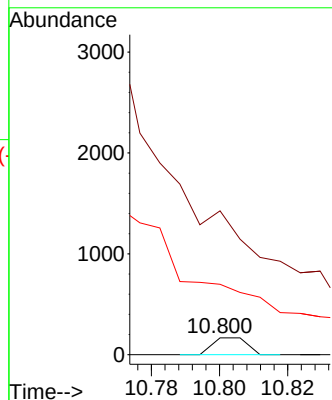
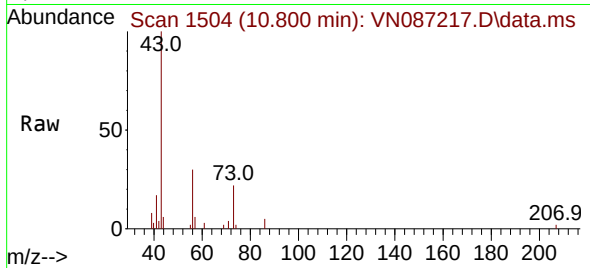




#56
Ethyl methacrylate
Concen: Below Cal
RT: 10.800 min Scan# 111
Delta R.T. -0.077 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

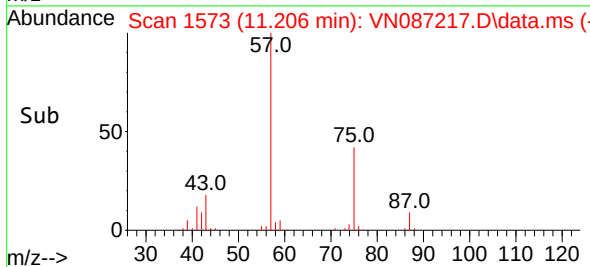
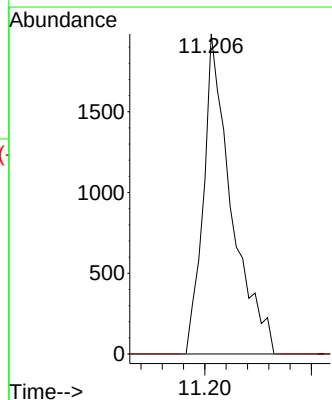
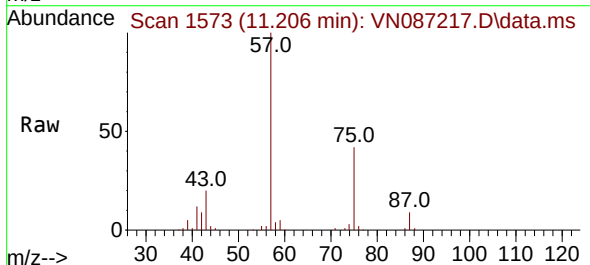
Instrument :
MSVOA_N
ClientSampleId :
WC-1

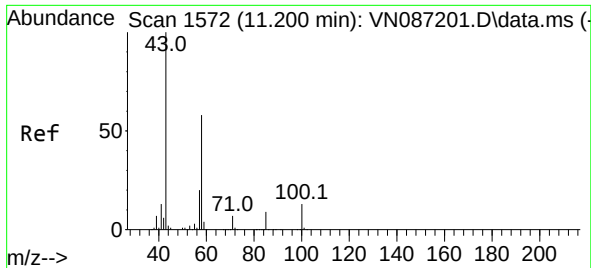
Tgt Ion: 69 Resp: 118
Ion Ratio Lower Upper
69 100
41 0.0 48.4 72.6#
39 0.0 24.1 36.1#



#57
1,3-Dichloropropane
Concen: 0.851 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion: 76 Resp: 3626
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

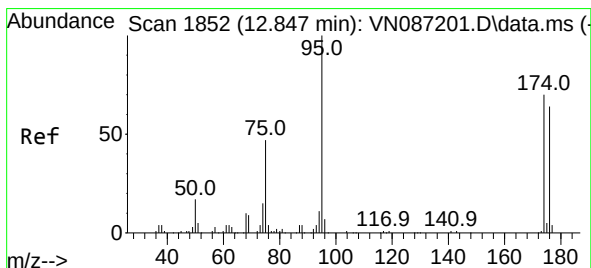
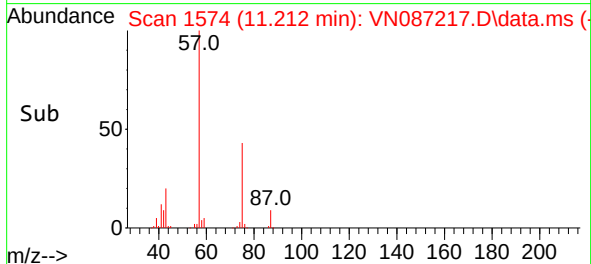
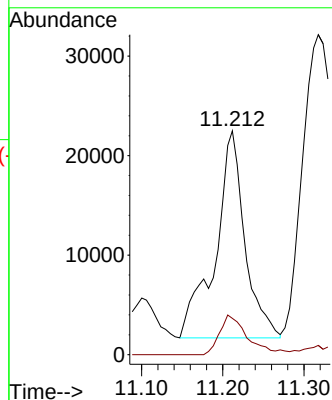
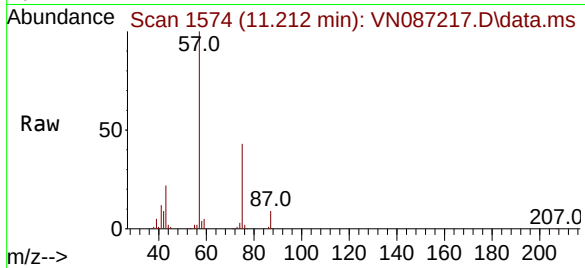




#59
2-Hexanone
Concen: 19.891 ug/l
RT: 11.212 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

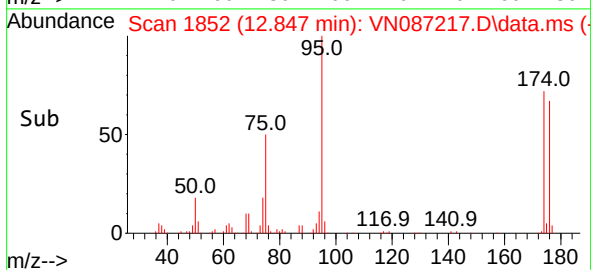
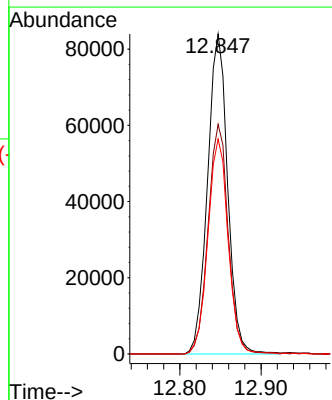
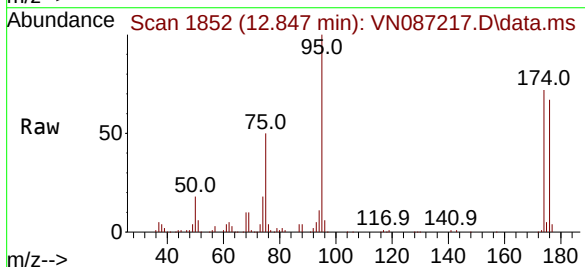
Instrument :
MSVOA_N
ClientSampleId :
WC-1

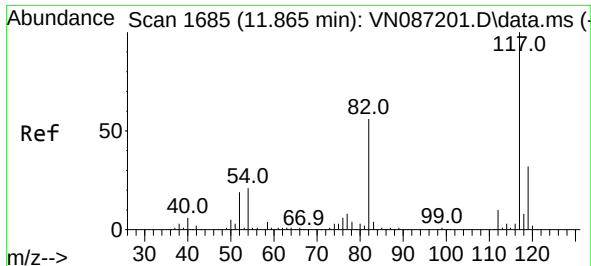
Tgt Ion: 43 Resp: 52540
Ion Ratio Lower Upper
43 100
58 18.3 31.1 93.3#



#62
4-Bromofluorobenzene
Concen: 45.647 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion: 95 Resp: 144440
Ion Ratio Lower Upper
95 100
174 71.9 0.0 142.2
176 67.6 0.0 134.8

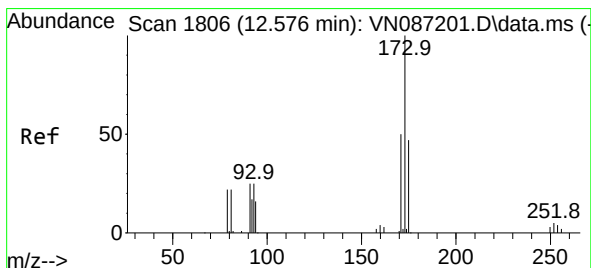
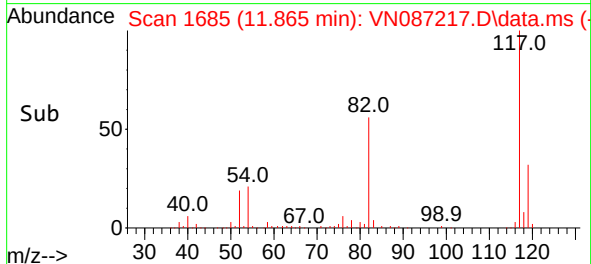
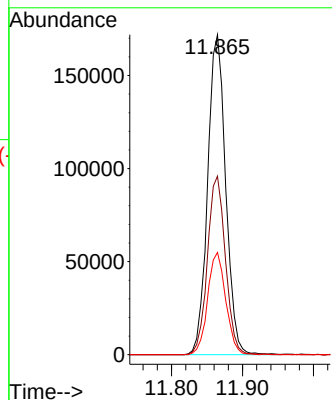
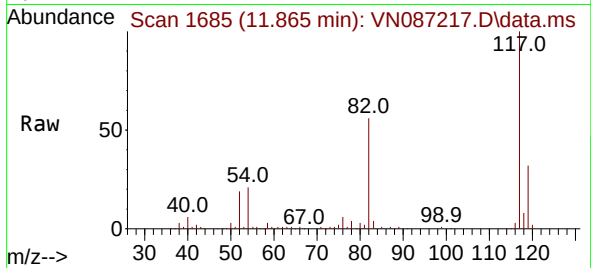




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

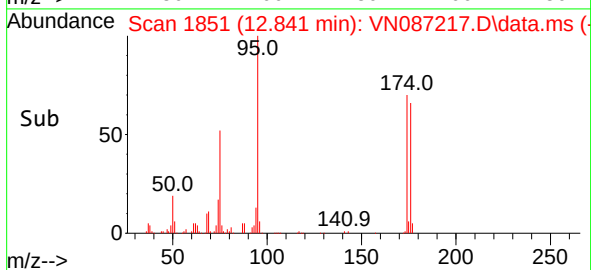
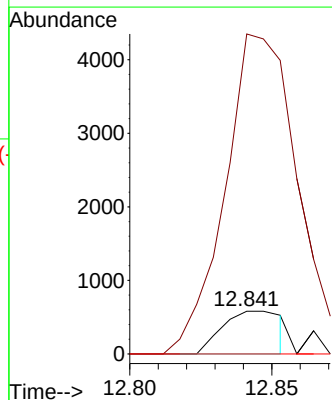
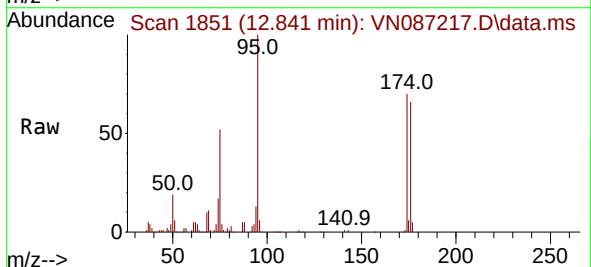
Instrument :
MSVOA_N
ClientSampleId :
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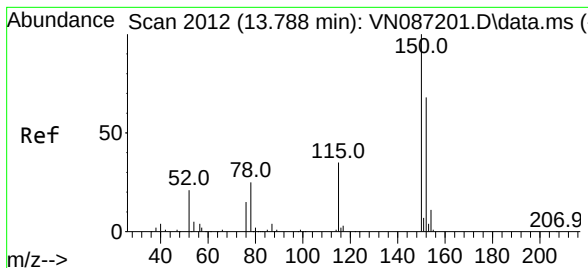
Tgt Ion:117 Resp: 303735
Ion Ratio Lower Upper
117 100
82 55.8 45.0 67.4
119 32.0 25.9 38.9



#71
Bromoform
Concen: 0.532 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion:173 Resp: 850
Ion Ratio Lower Upper
173 100
175 723.1 23.8 71.2#
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: VN087217.D

Acq: 27 Jun 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

WC-1

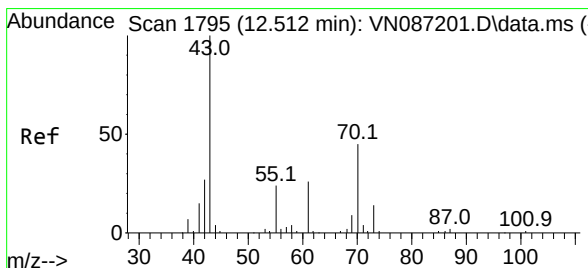
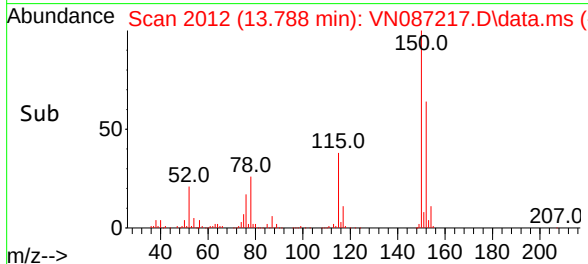
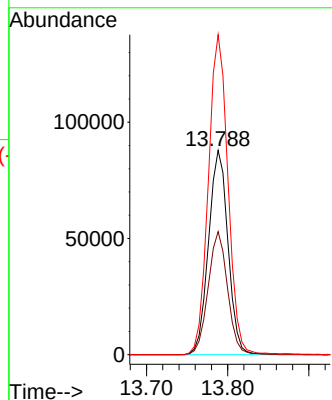
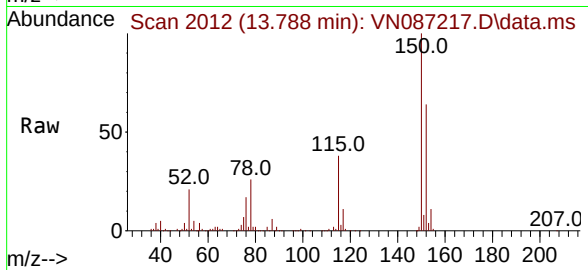
Tgt Ion:152 Resp: 146320

Ion Ratio Lower Upper

152 100

115 60.0 30.6 91.8

150 157.7 0.0 347.8



#74

N-ethyl acetate

Concen: 1.012 ug/l

RT: 12.388 min Scan# 1774

Delta R.T. -0.123 min

Lab File: VN087217.D

Acq: 27 Jun 2025 13:31

Tgt Ion: 43 Resp: 3731

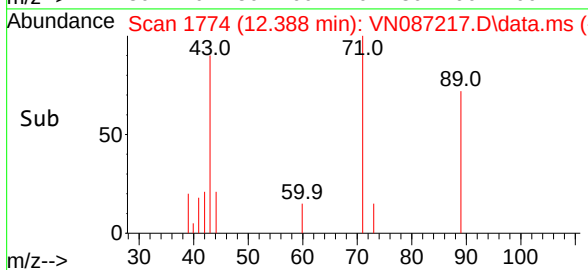
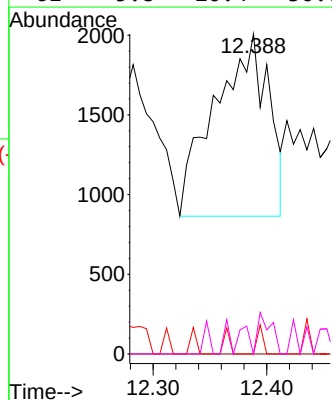
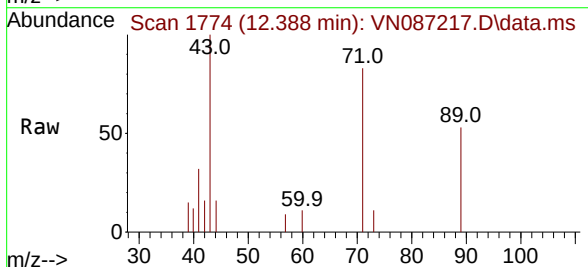
Ion Ratio Lower Upper

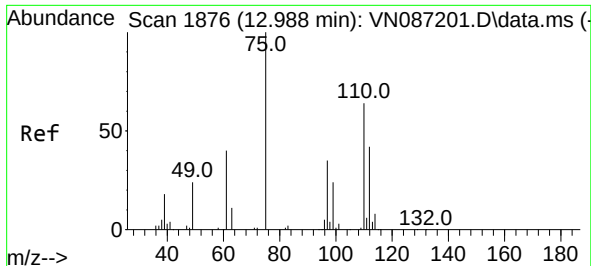
43 100

70 0.0 32.8 49.2#

55 1.7 16.4 24.6#

61 5.8 20.4 30.6#

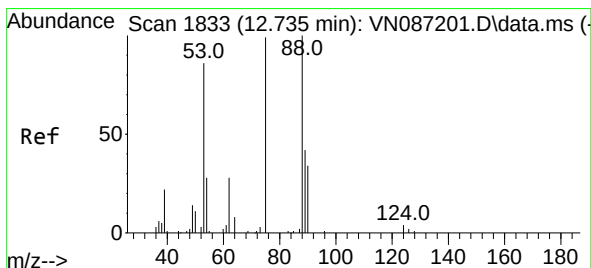
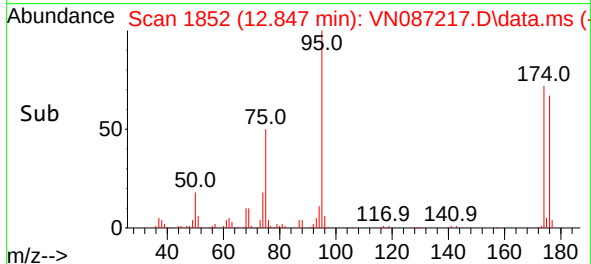
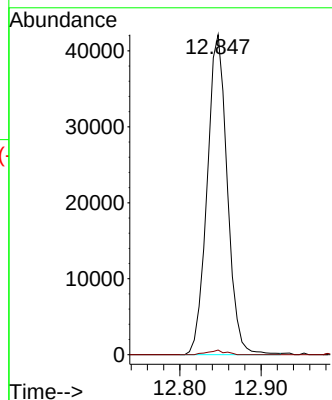
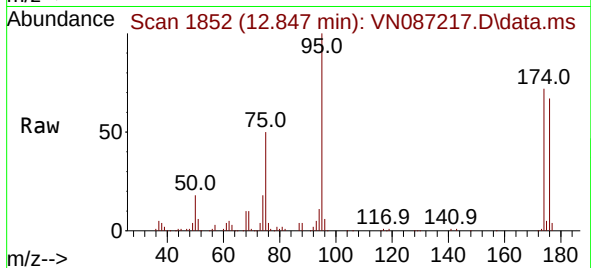




#76
1,2,3-Trichloropropane
Concen: 22.209 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Instrument :
MSVOA_N
ClientSampleId :
WC-1

Tgt Ion: 75 Resp: 72503
Ion Ratio Lower Upper
75 100
77 1.2 85.5 256.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 49.846 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087217.D
Acq: 27 Jun 2025 13:31

Tgt Ion: 75 Resp: 72503
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.0#
89 0.1 37.9 56.9#

