

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
 Data File : VN087057.D
 Acq On : 17 Jun 2025 14:22
 Operator : JC\MD
 Sample : Q2311-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP03-MH2MH3-WC

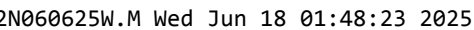
Quant Time: Jun 18 01:48:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	218305	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	426446	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	387763	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	180453	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	147390	50.427	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.860%			
35) Dibromofluoromethane	8.177	113	128887	51.000	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.000%			
50) Toluene-d8	10.565	98	528352	52.811	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.620%			
62) 4-Bromofluorobenzene	12.847	95	186824	50.262	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.520%			
Target Compounds					Qvalue	
8) Diethyl Ether	3.983	74	1150	0.697	ug/l	91
16) Acetone	4.447	43	35932	23.182	ug/l	96
18) Methyl Acetate	5.053	43	23640	5.234	ug/l	99
20) Methylene Chloride	5.306	84	18730	6.454	ug/l #	86
25) 2-Butanone	7.506	43	4462	1.771	ug/l #	83
29) Tetrahydrofuran	7.859	42	357	0.218	ug/l #	31
31) Cyclohexane	8.235	56	4050	0.854	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	15935	4.231	ug/l #	48
37) Ethyl Acetate	7.577	43	16234	3.386	ug/l	99
38) Carbon Tetrachloride	8.230	117	20639	5.582	ug/l #	17
43) Isopropyl Acetate	8.694	43	10155	1.320	ug/l	97
45) 1,2-Dichloropropane	9.747	63	1286	0.429	ug/l #	43
48) Methyl methacrylate	9.747	41	76965	21.733	ug/l #	34
51) 4-Methyl-2-Pentanone	10.359	43	86327	18.637	ug/l #	44
54) cis-1,3-Dichloropropene	10.359	75	53688	10.960	ug/l #	55
57) 1,3-Dichloropropane	11.212	76	2979	0.593	ug/l #	43
59) 2-Hexanone	11.212	43	31676	10.617	ug/l #	53
71) Bromoform	12.847	173	466	0.229	ug/l #	1
74) N-amyl acetate	12.559	43	985	0.214	ug/l #	47
76) 1,2,3-Trichloropropane	12.847	75	84881	19.788	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	84881	45.552	ug/l #	16
95) Naphthalene	15.641	128	44454	3.282	ug/l	98

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

Quant Time: Jun 18 01:48:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
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Response via : Initial Calibration

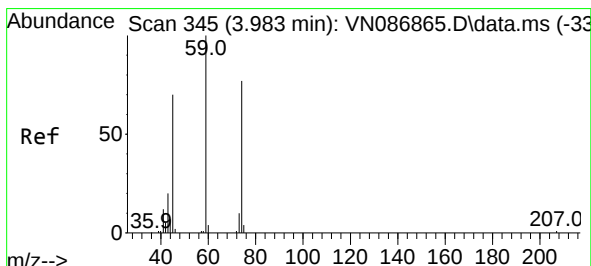
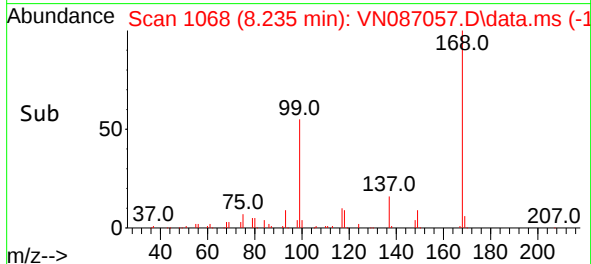
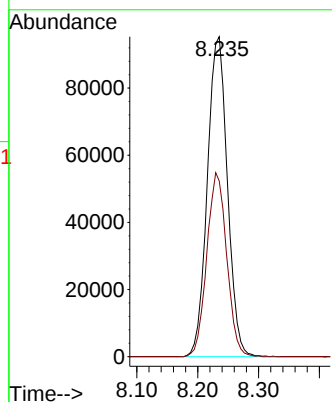
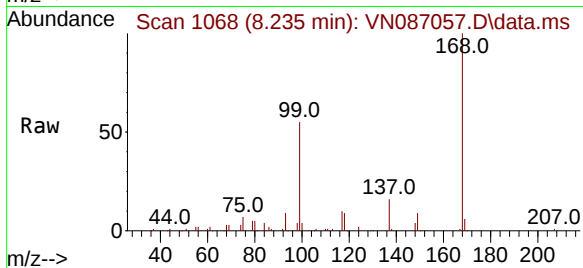




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

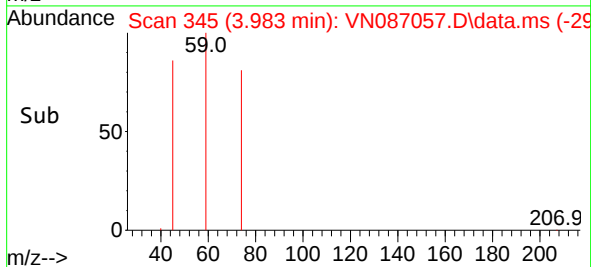
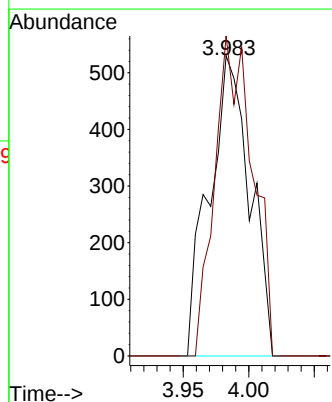
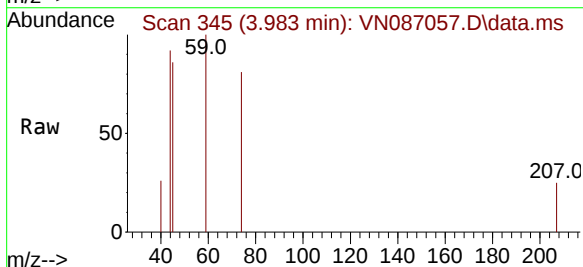
Instrument :
MSVOA_N
ClientSampleId :
TP03-MH2MH3-WC

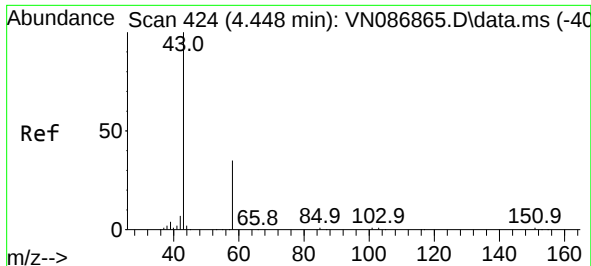
Tgt Ion:168 Resp: 218305
Ion Ratio Lower Upper
168 100
99 54.9 49.1 73.7



#8
Diethyl Ether
Concen: 0.697 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Tgt Ion: 74 Resp: 1150
Ion Ratio Lower Upper
74 100
45 99.2 45.5 136.5

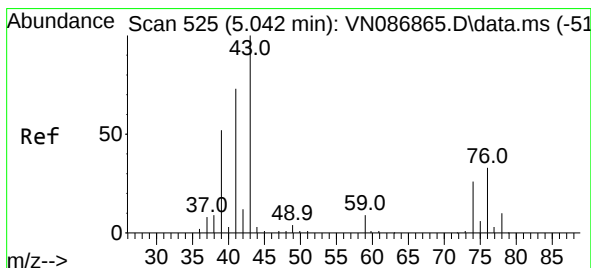
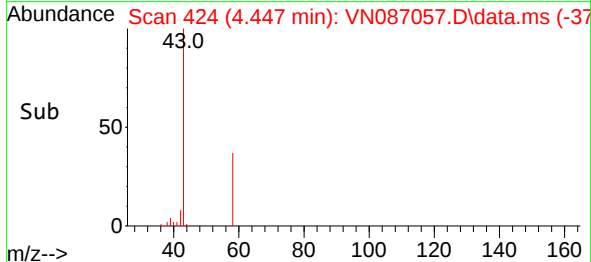
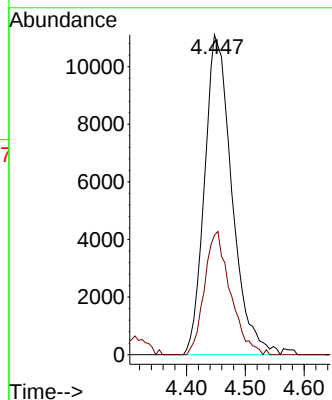
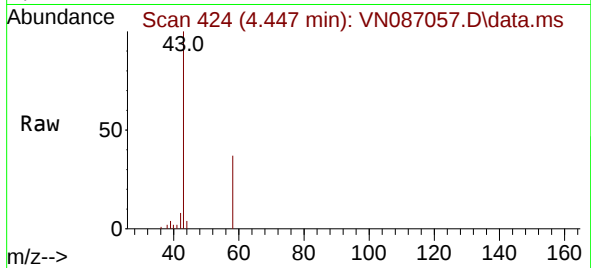




#16
Acetone
Concen: 23.182 ug/l
RT: 4.447 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

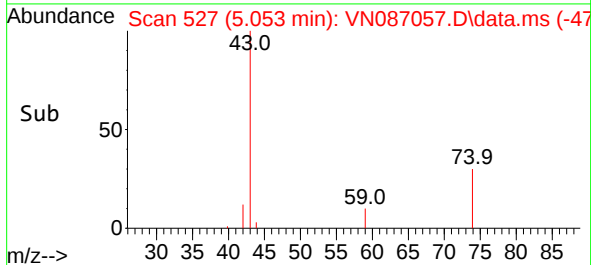
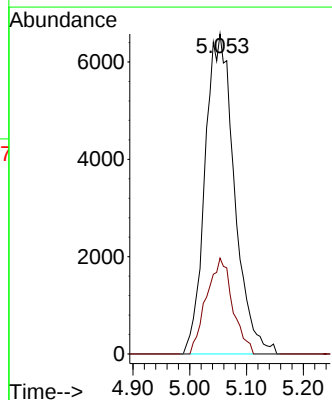
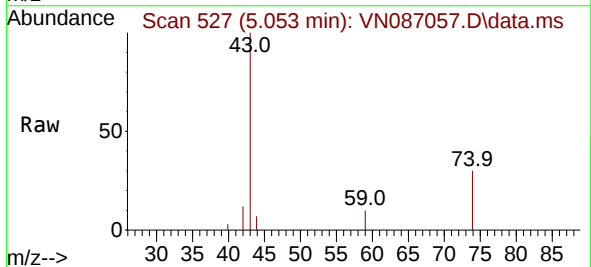
Instrument :
MSVOA_N
ClientSampleId :
TP03-MH2MH3-WC

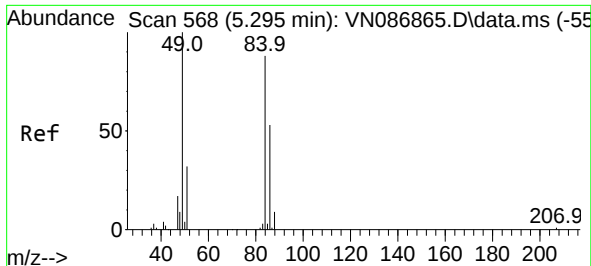
Tgt Ion: 43 Resp: 35932
Ion Ratio Lower Upper
43 100
58 37.3 28.0 42.0



#18
Methyl Acetate
Concen: 5.234 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Tgt Ion: 43 Resp: 23640
Ion Ratio Lower Upper
43 100
74 26.6 20.7 31.1

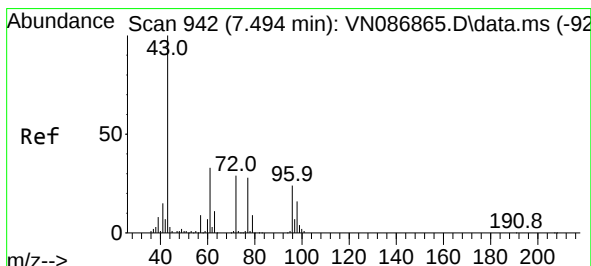
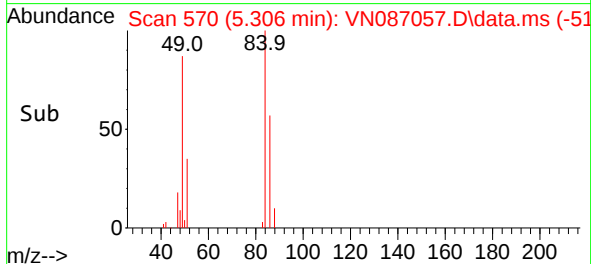
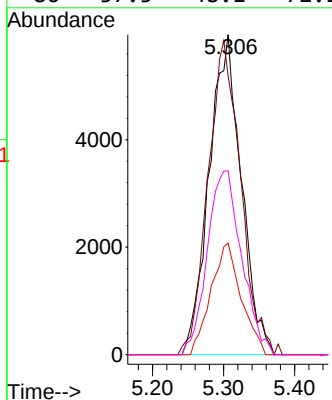
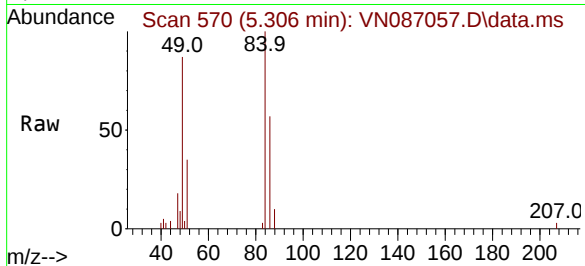




#20
Methylene Chloride
Concen: 6.454 ug/l
RT: 5.306 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

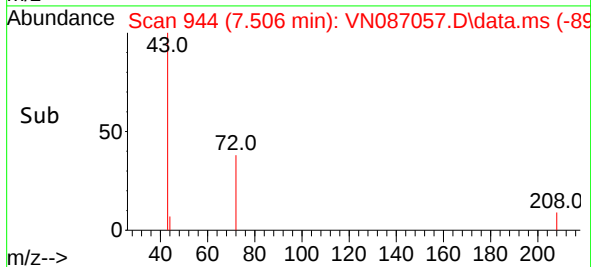
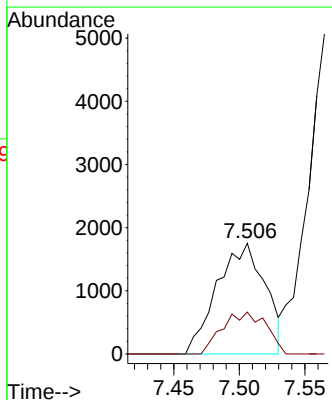
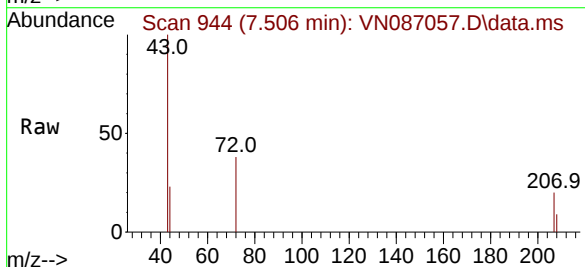
Instrument :
MSVOA_N
ClientSampleId :
TP03-MH2MH3-WC

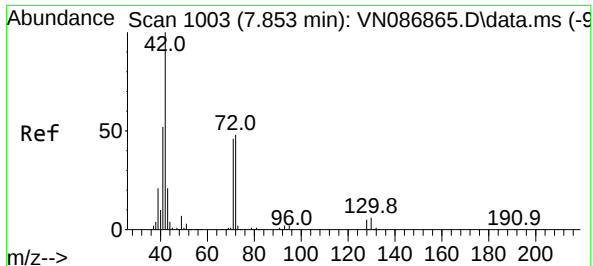
Tgt Ion:	84	Resp:	18730
Ion	Ratio	Lower	Upper
84	100		
49	87.1	90.5	135.7#
51	34.9	28.5	42.7
86	57.5	48.1	72.1



#25
2-Butanone
Concen: 1.771 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Tgt Ion:	43	Resp:	4462
Ion	Ratio	Lower	Upper
43	100		
72	37.9	23.0	34.6#





#29

Tetrahydrofuran

Concen: 0.218 ug/l

RT: 7.859 min Scan# 1068

Delta R.T. 0.006 min

Lab File: VN087057.D

Acq: 17 Jun 2025 14:22

Instrument :

MSVOA_N

ClientSampleId :

TP03-MH2MH3-WC

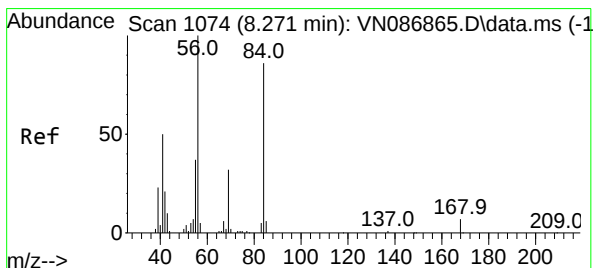
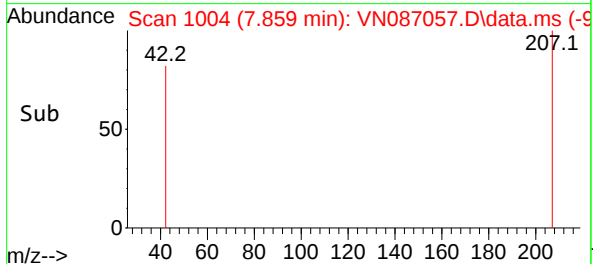
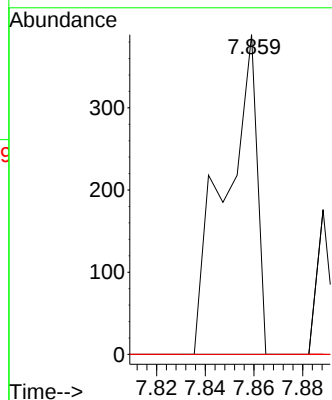
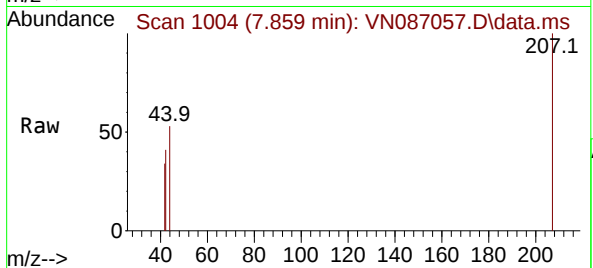
Tgt Ion: 42 Resp: 357

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 0.0 35.6 53.4#



#31

Cyclohexane

Concen: 0.854 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.035 min

Lab File: VN087057.D

Acq: 17 Jun 2025 14:22

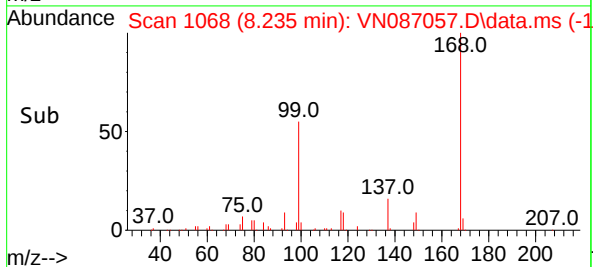
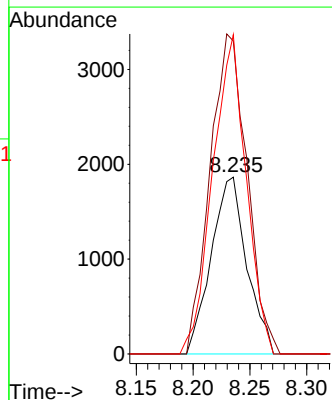
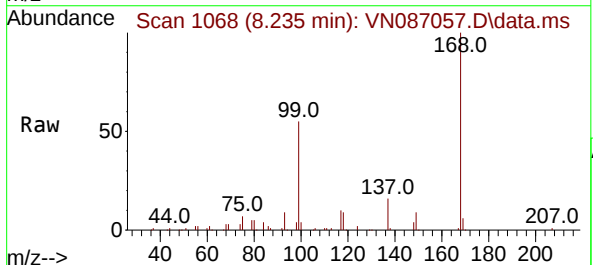
Tgt Ion: 56 Resp: 4050

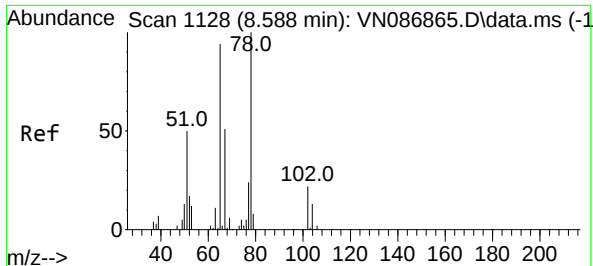
Ion Ratio Lower Upper

56 100

69 177.0 25.4 38.0#

84 180.6 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 50.427 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN087057.D

Acq: 17 Jun 2025 14:22

Instrument :

MSVOA_N

ClientSampleId :

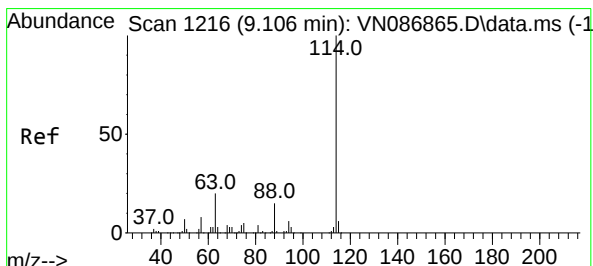
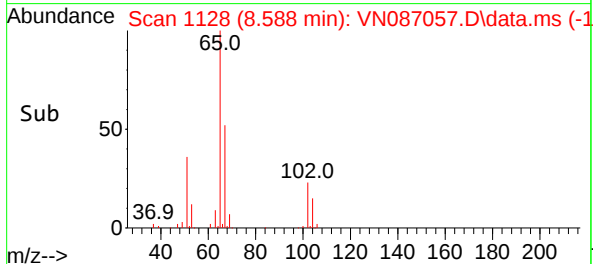
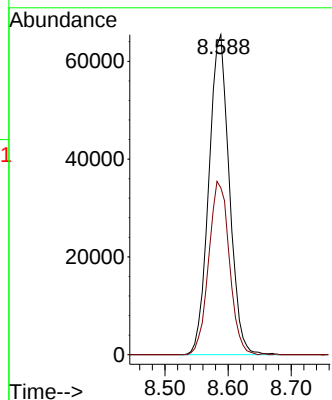
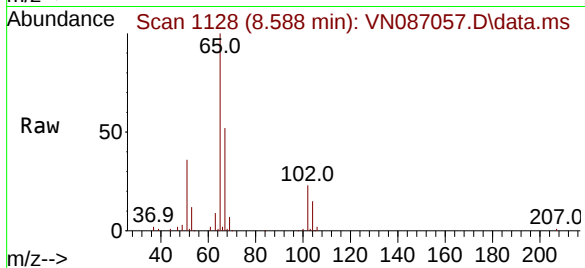
TP03-MH2MH3-WC

Tgt Ion: 65 Resp: 147390

Ion Ratio Lower Upper

65 100

67 54.7 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087057.D

Acq: 17 Jun 2025 14:22

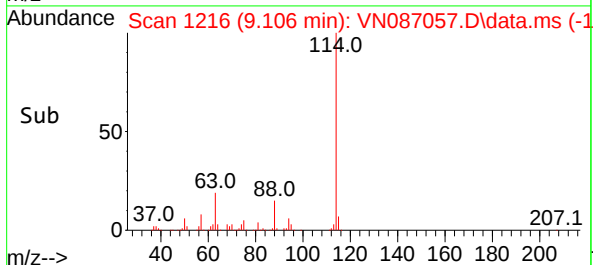
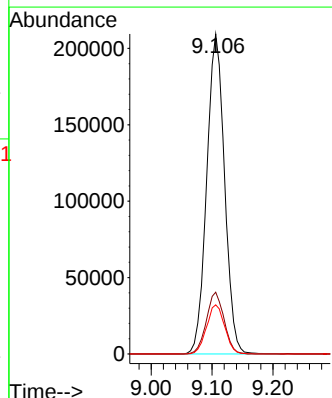
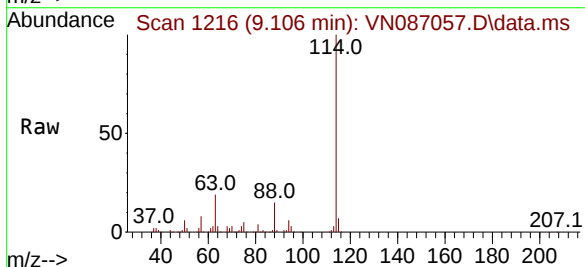
Tgt Ion: 114 Resp: 426446

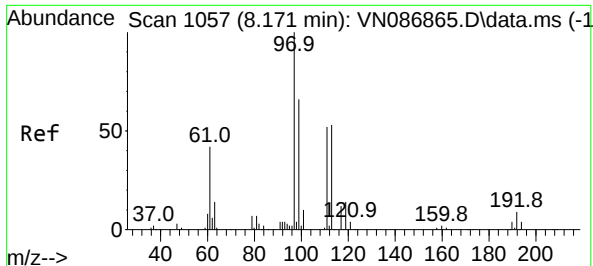
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 15.3 0.0 30.2

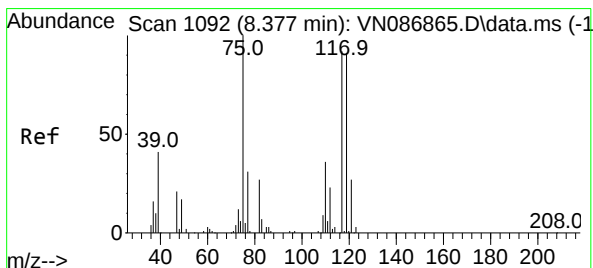
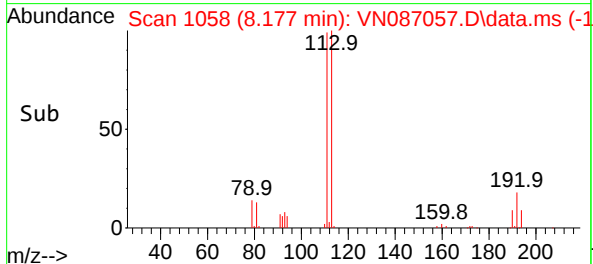
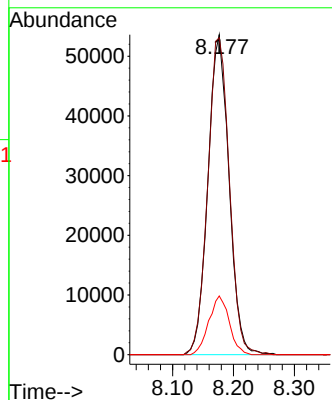
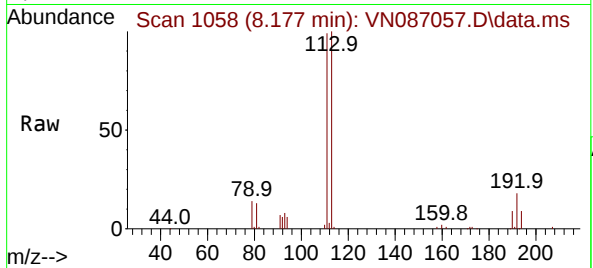




#35
Dibromofluoromethane
Concen: 51.000 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

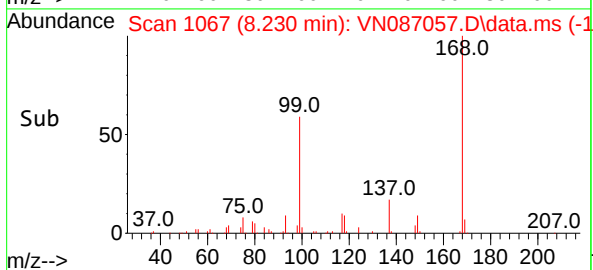
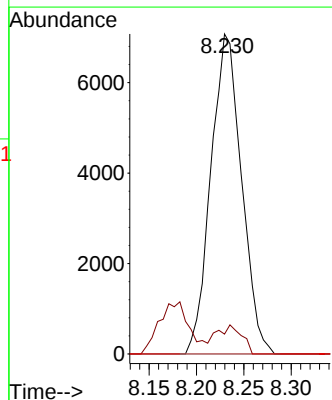
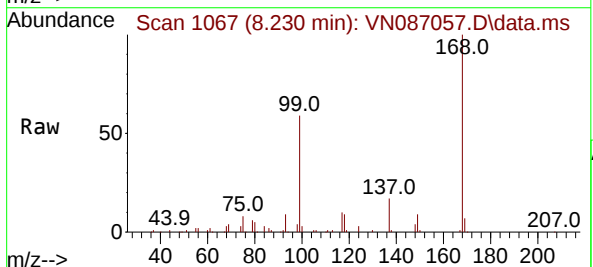
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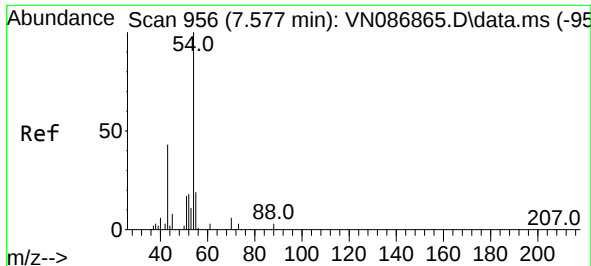
Tgt Ion:113 Resp: 128887
Ion Ratio Lower Upper
113 100
111 101.6 84.2 126.2
192 17.8 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.231 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Tgt Ion: 75 Resp: 15935
Ion Ratio Lower Upper
75 100
110 7.4 17.6 52.9#
77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 3.386 ug/l

RT: 7.577 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087057.D

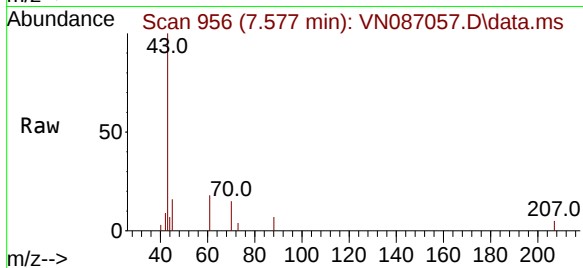
Acq: 17 Jun 2025 14:22

Instrument :

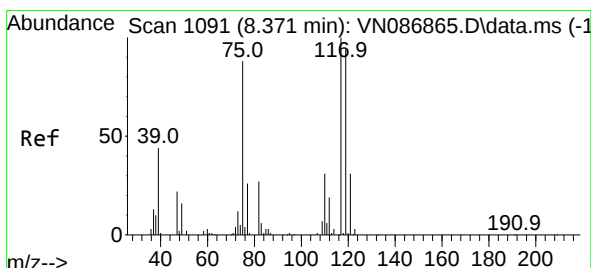
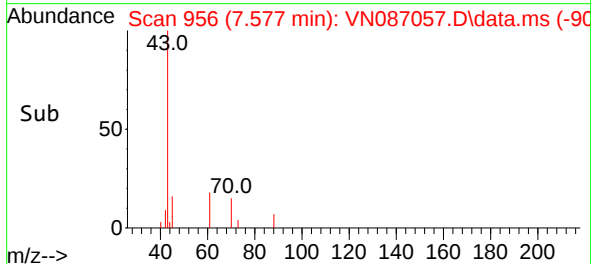
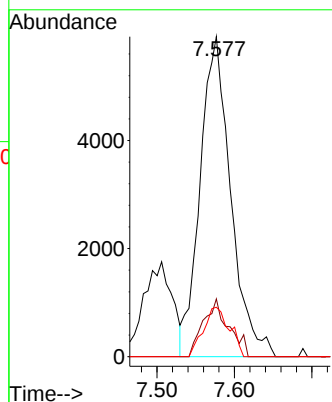
MSVOA_N

ClientSampleId :

TP03-MH2MH3-WC



Tgt Ion:	43	Resp:	16234
Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.1	18.1
70	13.1	9.8	14.6



#38

Carbon Tetrachloride

Concen: 5.582 ug/l

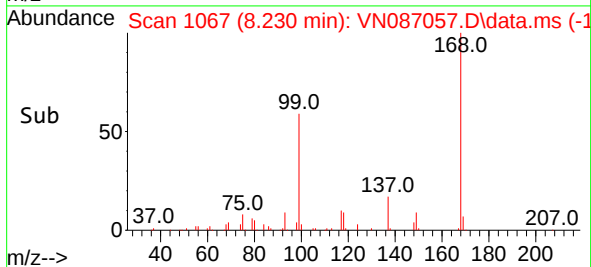
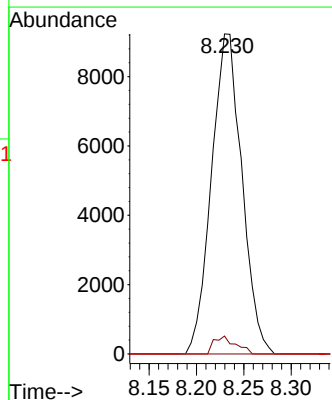
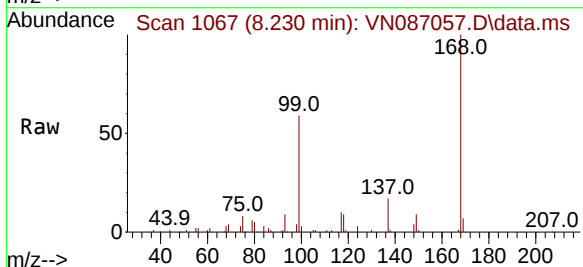
RT: 8.230 min Scan# 1067

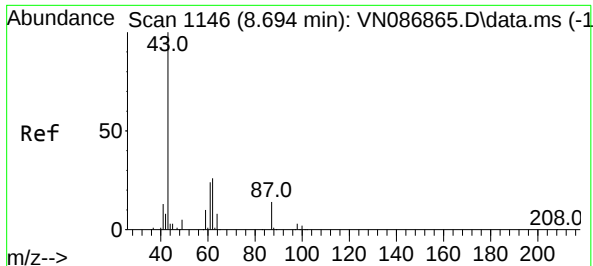
Delta R.T. -0.141 min

Lab File: VN087057.D

Acq: 17 Jun 2025 14:22

Tgt Ion:	117	Resp:	20639
Ion	Ratio	Lower	Upper
117	100		
119	5.6	75.0	112.6#
121	0.0	24.9	37.3#

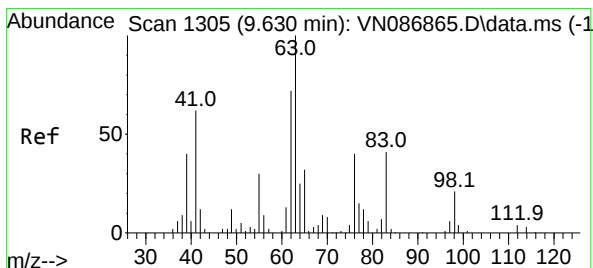
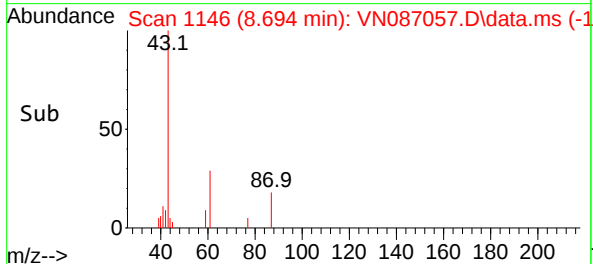
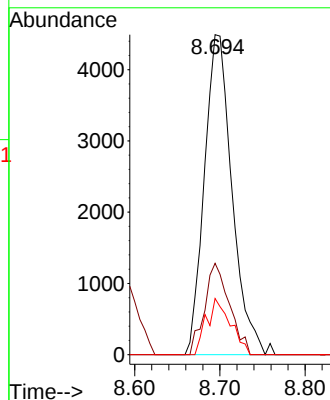
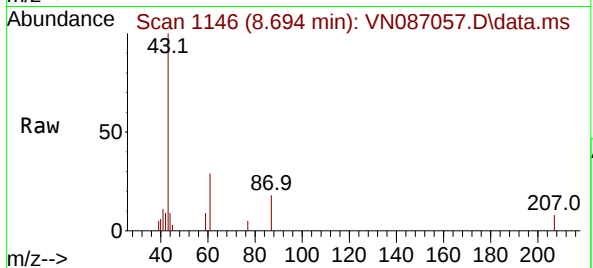




#43
Isopropyl Acetate
Concen: 1.320 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

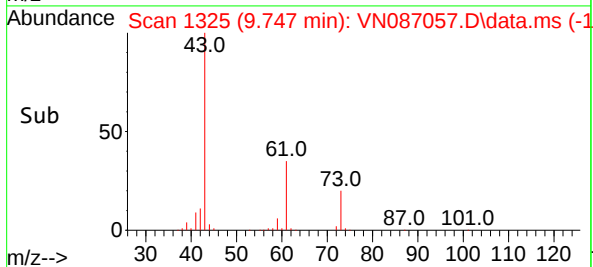
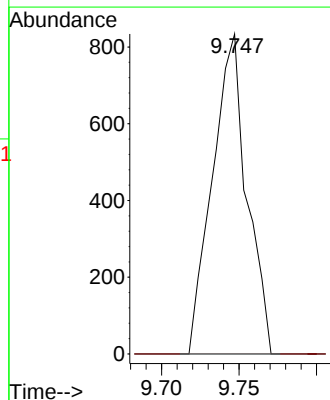
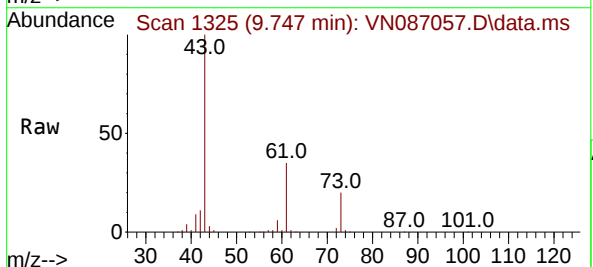
Instrument :
MSVOA_N
ClientSampleId :
TP03-MH2MH3-WC

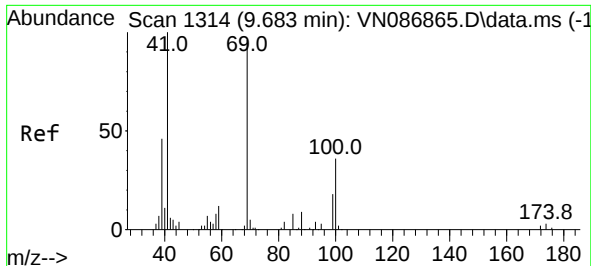
Tgt Ion:	43	Resp:	10155
Ion	Ratio	Lower	Upper
43	100		
61	25.5	22.1	33.1
87	15.2	11.8	17.6



#45
1,2-Dichloropropane
Concen: 0.429 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.117 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Tgt Ion:	63	Resp:	1286
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.5	38.3#

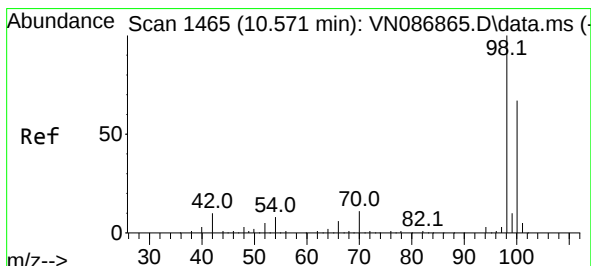
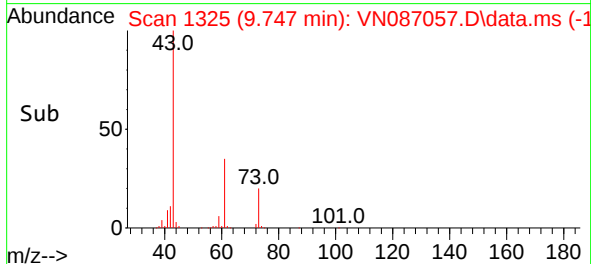
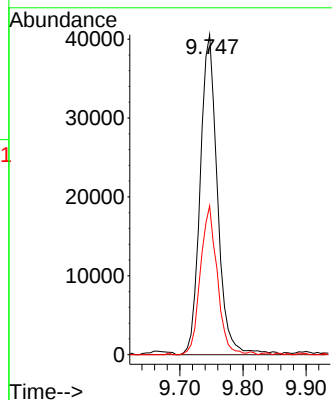
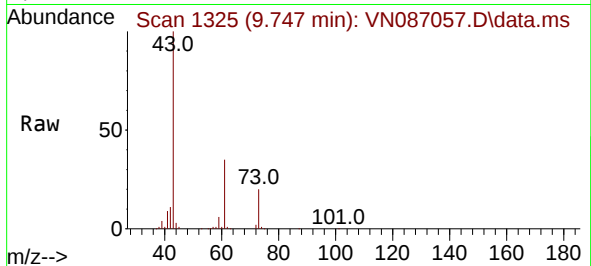




#48
Methyl methacrylate
Concen: 21.733 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

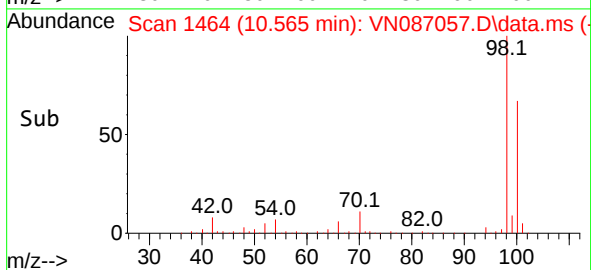
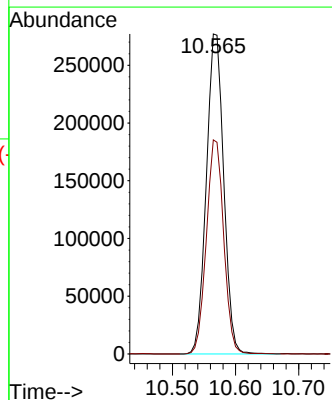
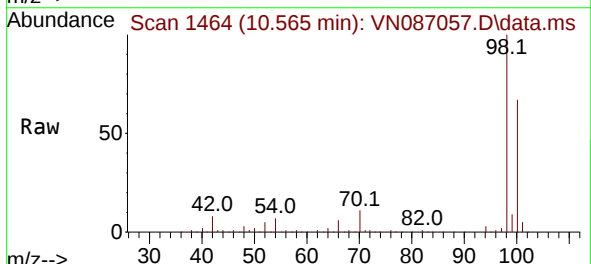
Instrument :
MSVOA_N
ClientSampleId :
TP03-MH2MH3-WC

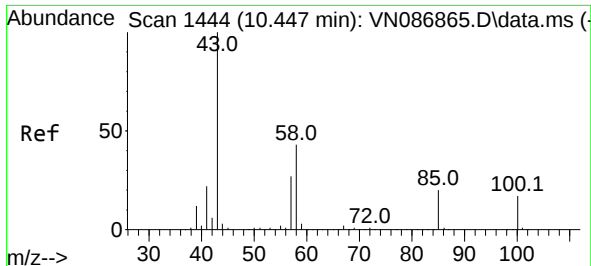
Tgt Ion: 41 Resp: 76965
Ion Ratio Lower Upper
41 100
69 0.0 74.6 112.0#
39 45.4 40.2 60.4



#50
Toluene-d8
Concen: 52.811 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Tgt Ion: 98 Resp: 528352
Ion Ratio Lower Upper
98 100
100 66.8 53.4 80.0

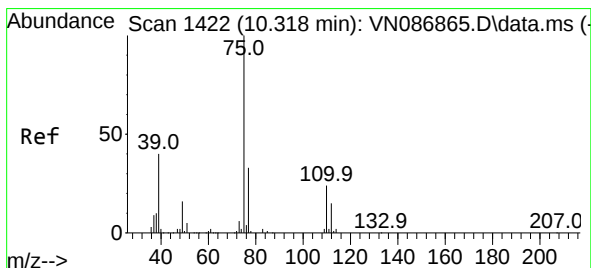
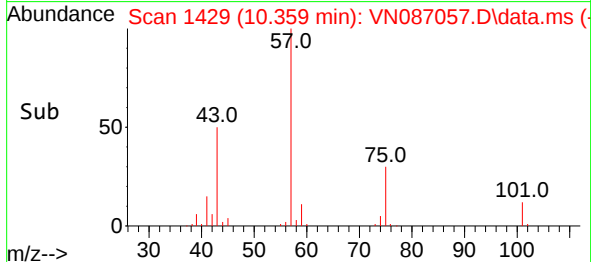
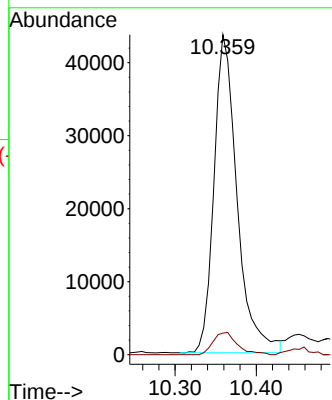
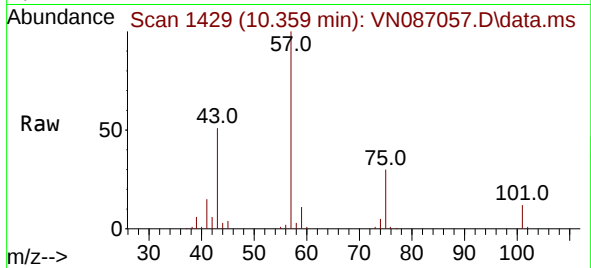




#51
4-Methyl-2-Pentanone
Concen: 18.637 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

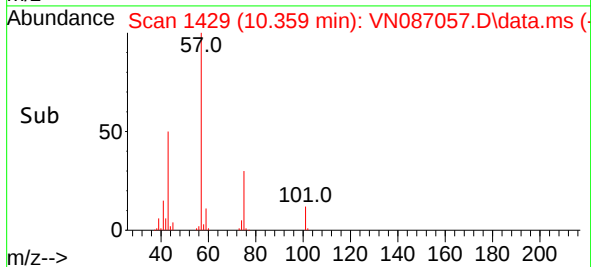
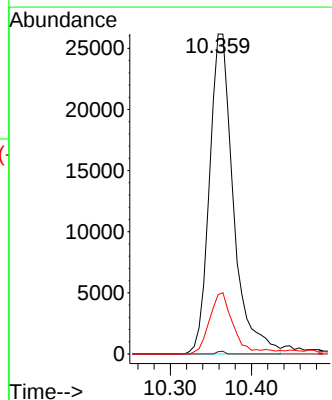
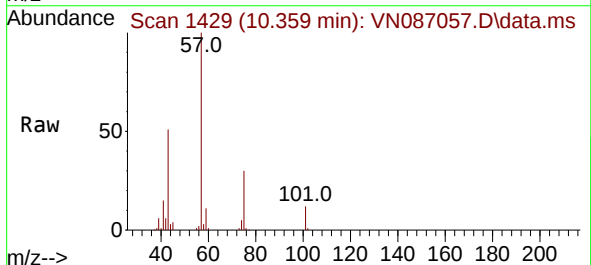
Instrument :
MSVOA_N
ClientSampleId :
TP03-MH2MH3-WC

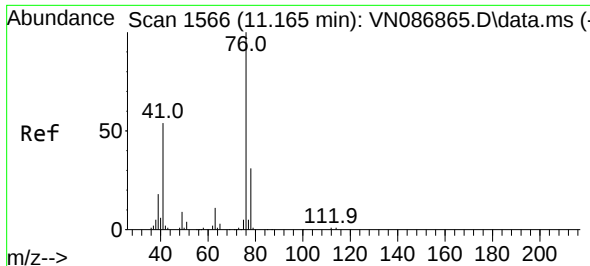
Tgt Ion: 43 Resp: 86327
Ion Ratio Lower Upper
43 100
58 7.3 34.2 51.4#



#54
cis-1,3-Dichloropropene
Concen: 10.960 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Tgt Ion: 75 Resp: 53688
Ion Ratio Lower Upper
75 100
77 0.7 26.2 39.4#
39 18.6 32.3 48.5#





#57

1,3-Dichloropropane

Concen: 0.593 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.047 min

Lab File: VN087057.D

Acq: 17 Jun 2025 14:22

Instrument :

MSVOA_N

ClientSampleId :

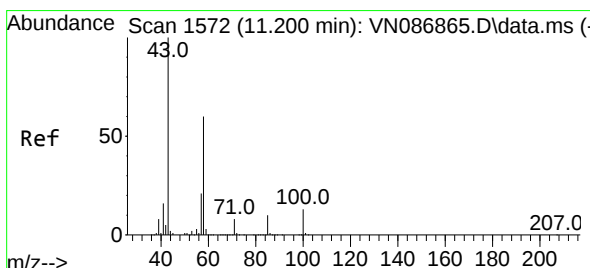
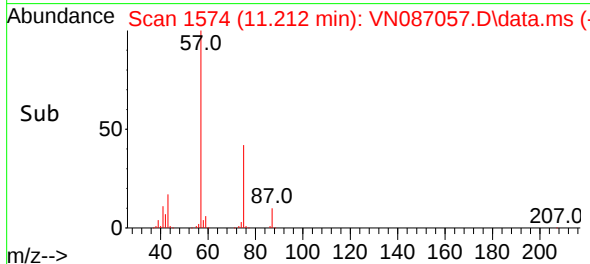
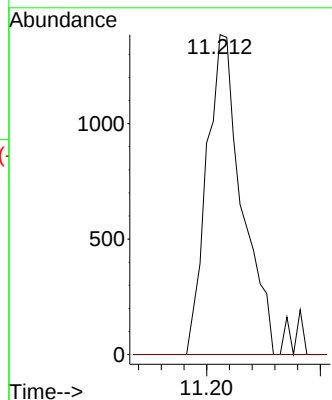
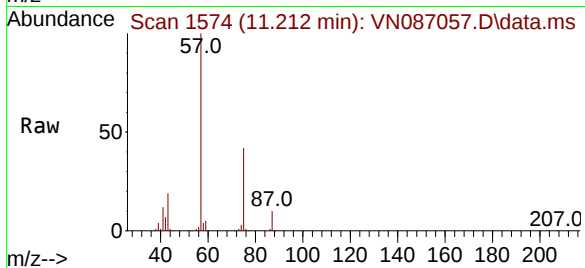
TP03-MH2MH3-WC

Tgt Ion: 76 Resp: 2979

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 10.617 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087057.D

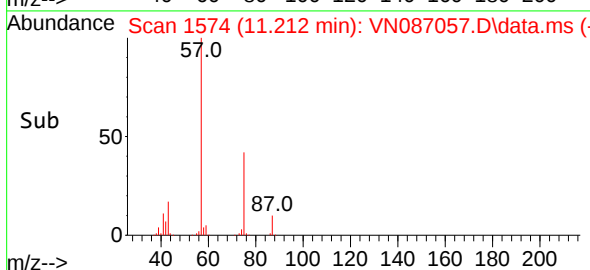
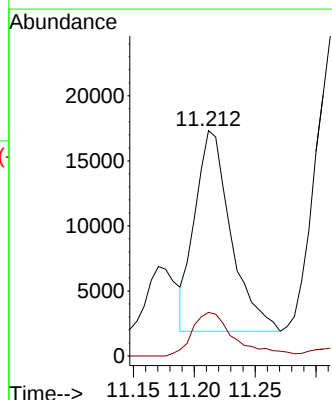
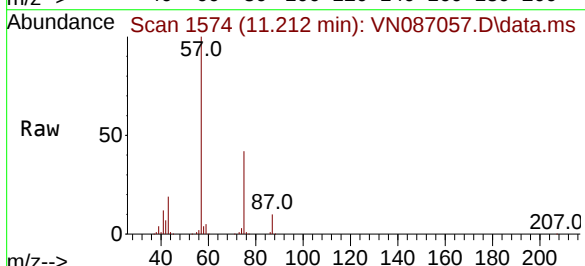
Acq: 17 Jun 2025 14:22

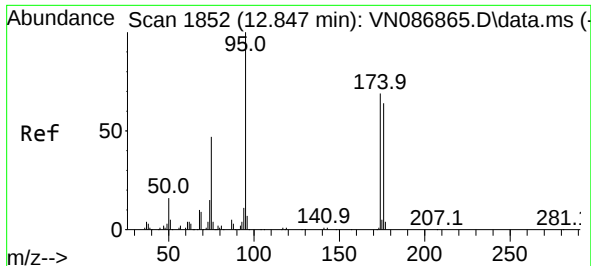
Tgt Ion: 43 Resp: 31676

Ion Ratio Lower Upper

43 100

58 25.4 30.4 91.3#

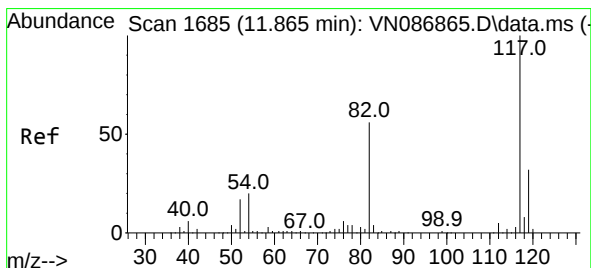
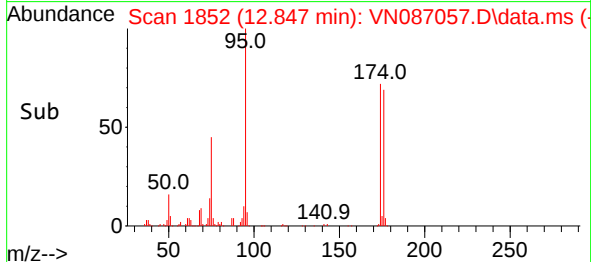
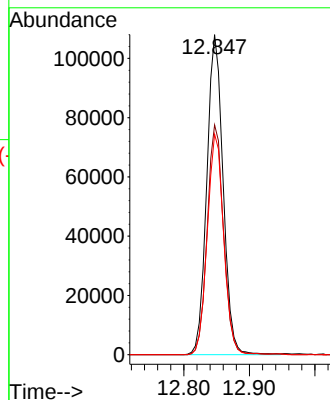
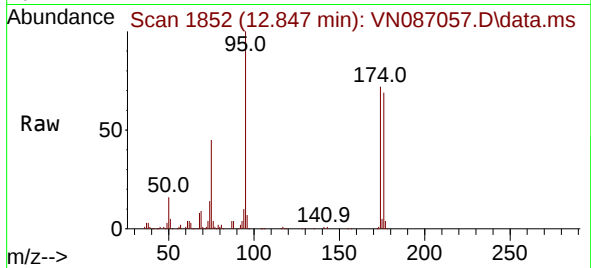




#62
4-Bromofluorobenzene
Concen: 50.262 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

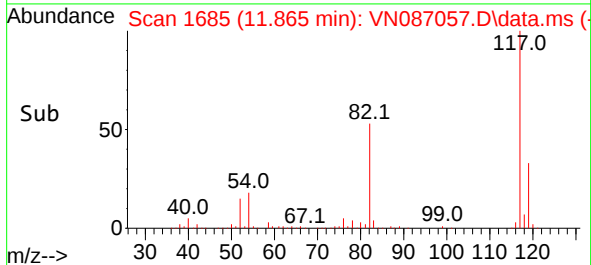
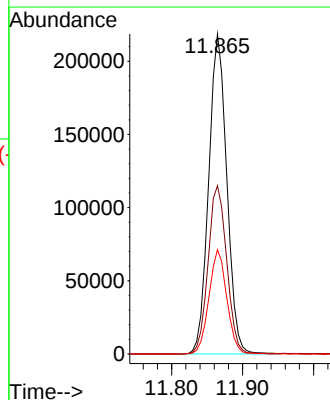
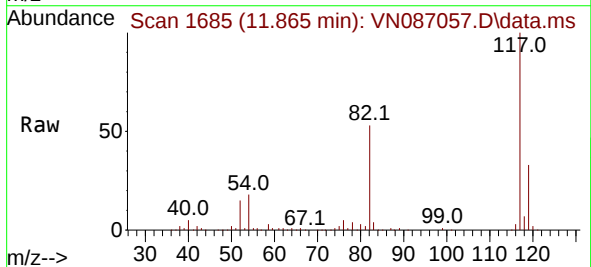
Instrument :
MSVOA_N
ClientSampleId :
TP03-MH2MH3-WC

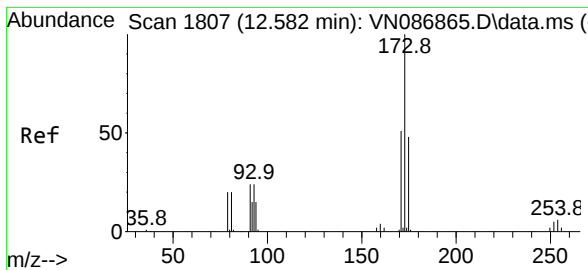
Tgt Ion: 95 Resp: 186824
Ion Ratio Lower Upper
95 100
174 72.0 0.0 141.8
176 69.3 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Tgt Ion: 117 Resp: 387763
Ion Ratio Lower Upper
117 100
82 52.6 44.6 67.0
119 32.6 25.5 38.3





#71

Bromoform

Concen: 0.229 ug/l

RT: 12.847 min Scan# 1807

Delta R.T. 0.265 min

Lab File: VN087057.D

Acq: 17 Jun 2025 14:22

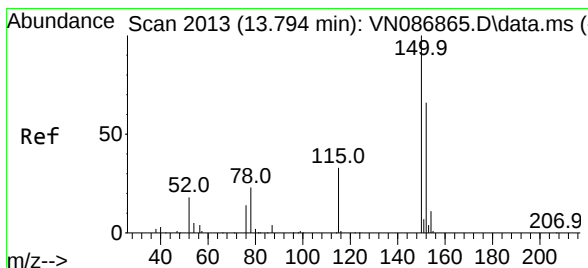
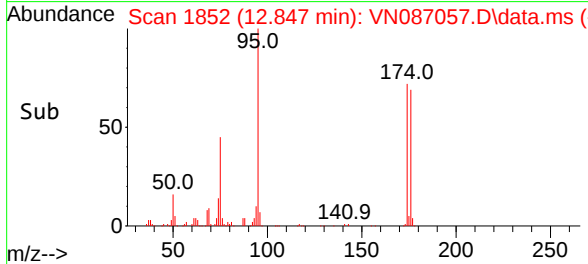
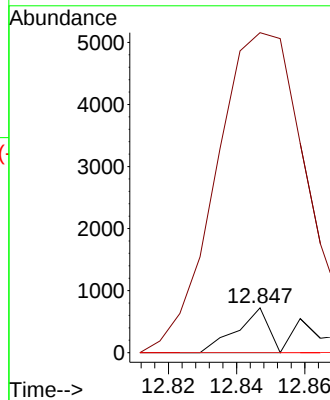
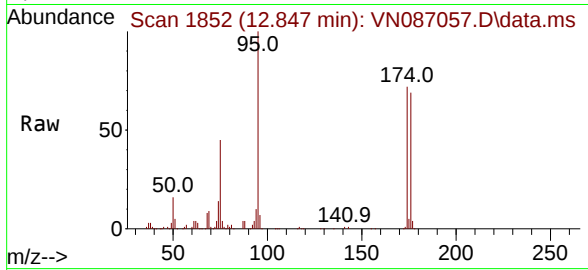
Instrument :

MSVOA_N

ClientSampleId :

TP03-MH2MH3-WC

Tgt Ion:173	Resp:	466
Ion Ratio	Lower	Upper
173	100	
175	1825.8	24.1 72.4#
254	0.0	0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

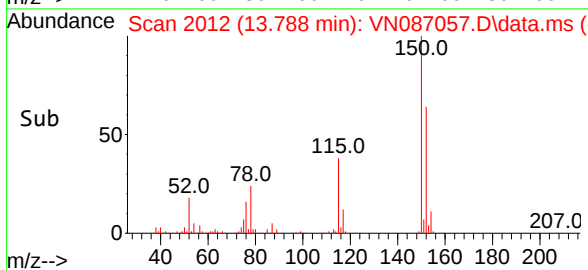
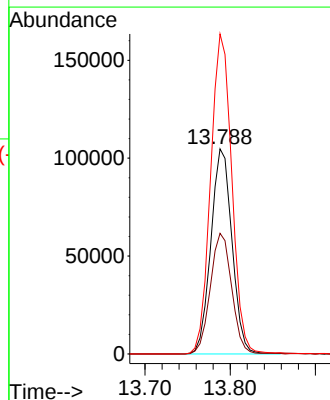
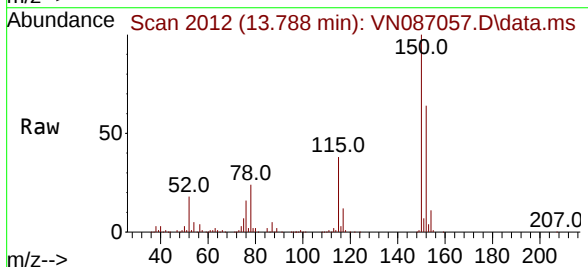
RT: 13.788 min Scan# 2012

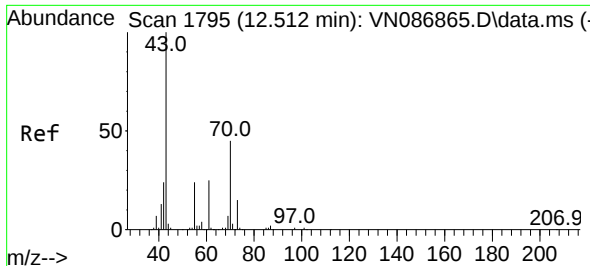
Delta R.T. -0.006 min

Lab File: VN087057.D

Acq: 17 Jun 2025 14:22

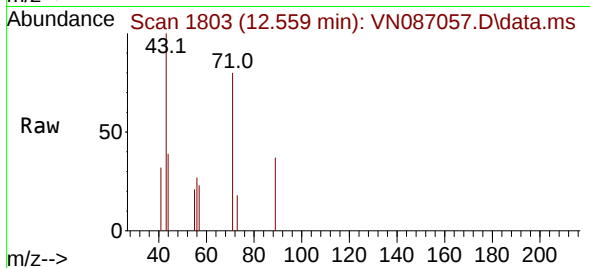
Tgt Ion:152	Resp:	180453
Ion Ratio	Lower	Upper
152	100	
115	59.5	30.1 90.5
150	156.6	0.0 345.0



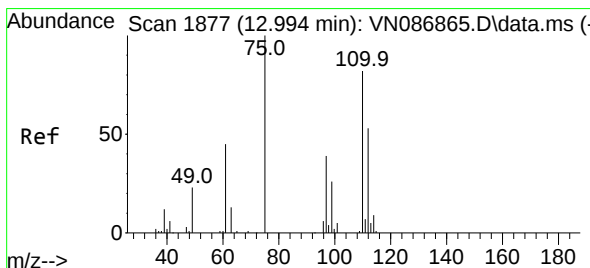
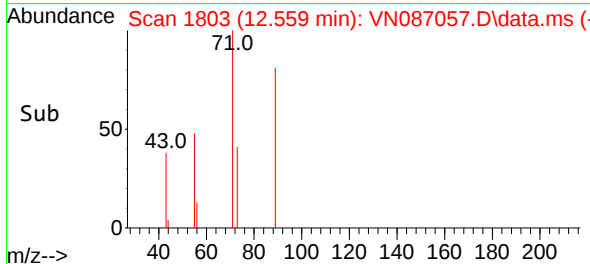
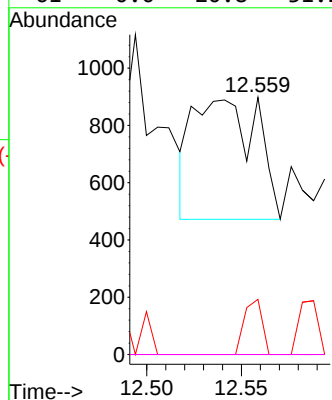


#74
N-amy1 acetate
Concen: 0.214 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.047 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Instrument :
MSVOA_N
ClientSampleId :
TP03-MH2MH3-WC

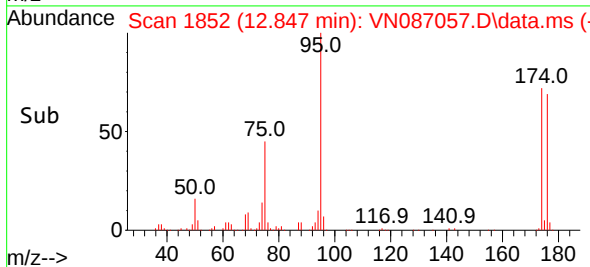
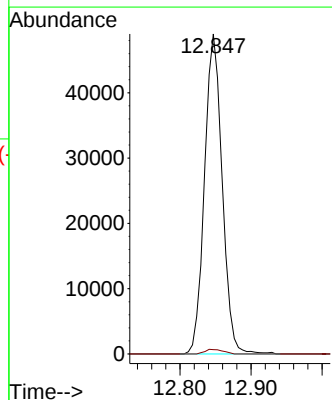
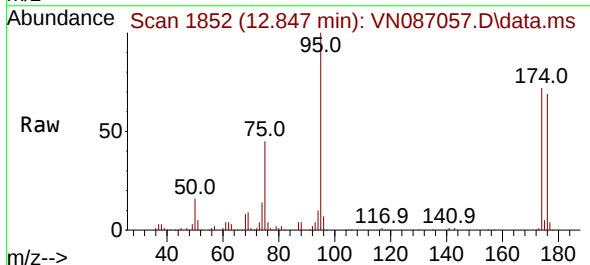


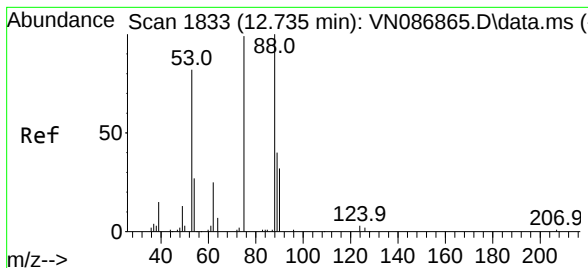
Tgt Ion: 43	Resp: 985
Ion Ratio	Lower Upper
43 100	
70 0.0	37.6 56.4#
55 12.8	19.0 28.6#
61 0.0	20.8 31.2#



#76
1,2,3-Trichloropropane
Concen: 19.788 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Tgt Ion: 75	Resp: 84881
Ion Ratio	Lower Upper
75 100	
77 1.5	79.3 237.9#

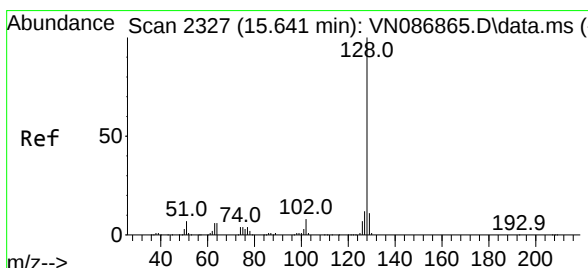
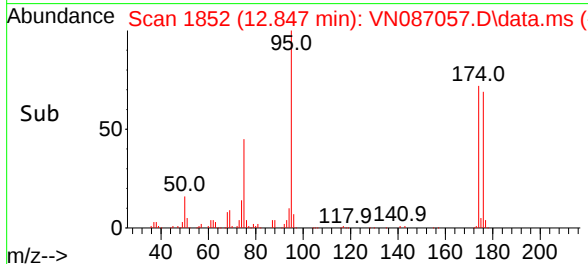
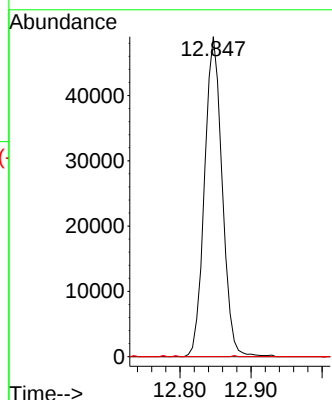
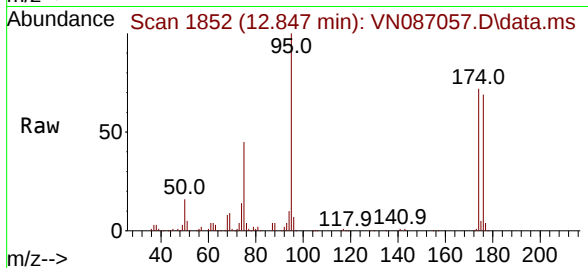




#81
trans-1,4-Dichloro-2-butene
Concen: 45.552 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Instrument :
MSVOA_N
ClientSampleId :
TP03-MH2MH3-WC

Tgt Ion: 75 Resp: 84881
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#95
Naphthalene
Concen: 3.282 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN087057.D
Acq: 17 Jun 2025 14:22

Tgt Ion:128 Resp: 44454
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 12.0 8.8 13.2

