

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
 Data File : VN086909.D
 Acq On : 09 Jun 2025 16:34
 Operator : JC\MD
 Sample : Q2228-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP08-MHI-WC

Quant Time: Jun 10 03:35:57 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

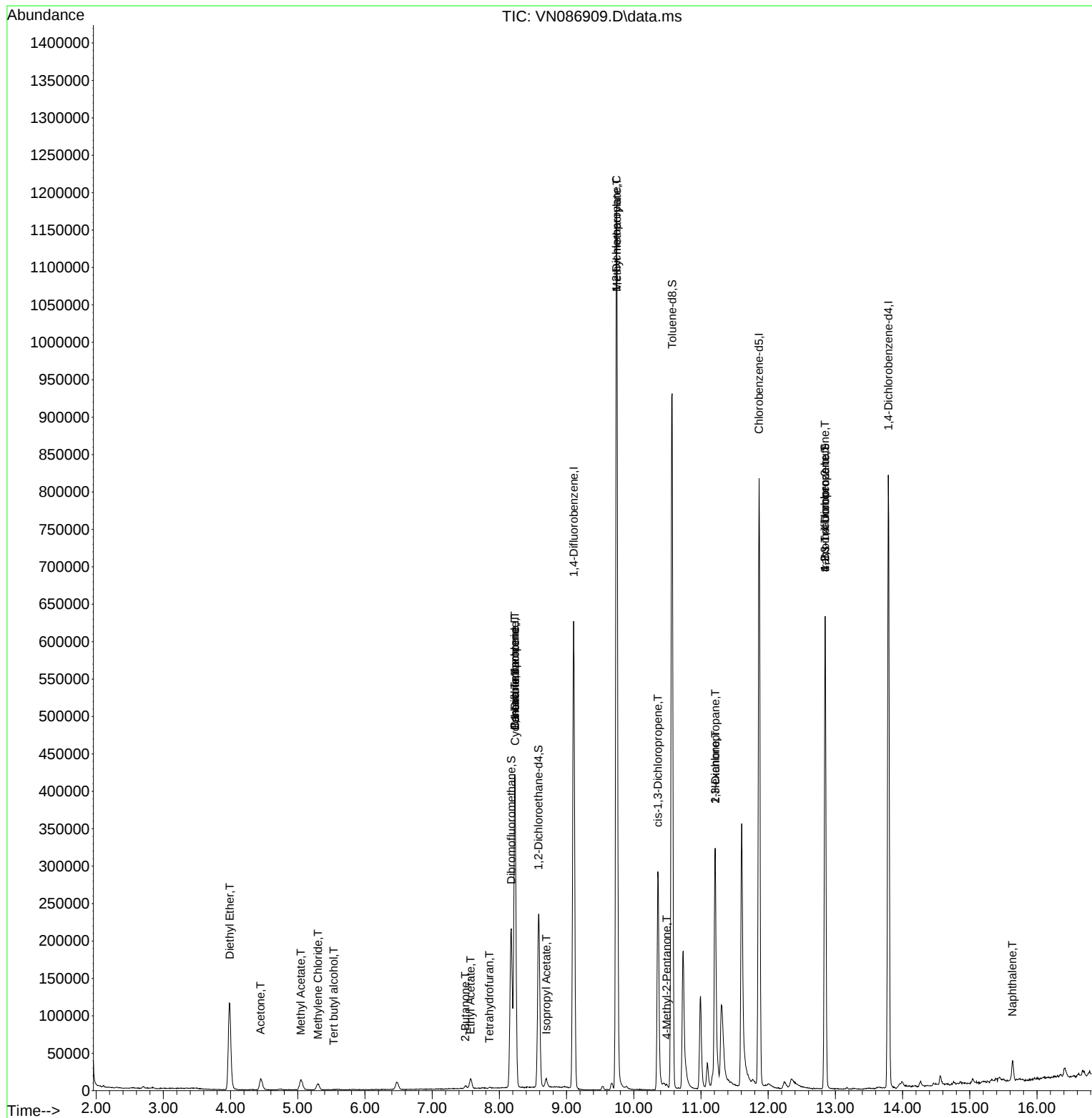
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	329169	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	589208	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	503460	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	243469	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	192160	43.601	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	87.200%
35) Dibromofluoromethane	8.177	113	166924	47.805	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.600%
50) Toluene-d8	10.570	98	704465	50.963	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.920%
62) 4-Bromofluorobenzene	12.847	95	249195	48.522	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.040%
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.989	74	81216	32.634	ug/l	91
11) Tert butyl alcohol	5.536	59	785	0.656	ug/l #	73
16) Acetone	4.447	43	28790	12.318	ug/l	96
18) Methyl Acetate	5.047	43	29734	4.366	ug/l	97
20) Methylene Chloride	5.300	84	7293	1.667	ug/l	93
25) 2-Butanone	7.494	43	6059	1.595	ug/l	98
29) Tetrahydrofuran	7.853	42	860	0.348	ug/l #	73
31) Cyclohexane	8.235	56	5761	0.806	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	24517	4.712	ug/l #	49
37) Ethyl Acetate	7.571	43	20490	3.094	ug/l	98
38) Carbon Tetrachloride	8.229	117	31438	6.154	ug/l #	18
43) Isopropyl Acetate	8.700	43	12867	1.210	ug/l #	95
45) 1,2-Dichloropropane	9.741	63	1806	0.436	ug/l #	43
48) Methyl methacrylate	9.747	41	99596	20.355	ug/l #	35
51) 4-Methyl-2-Pentanone	10.488	43	3487	0.545	ug/l #	33
54) cis-1,3-Dichloropropene	10.359	75	69465	10.264	ug/l #	55
57) 1,3-Dichloropropane	11.212	76	4760	0.686	ug/l #	43
59) 2-Hexanone	11.212	43	45587	11.058	ug/l #	54
76) 1,2,3-Trichloropropane	12.847	75	113615	19.632	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	113615	45.191	ug/l #	16
95) Naphthalene	15.635	128	27440	1.501	ug/l	98

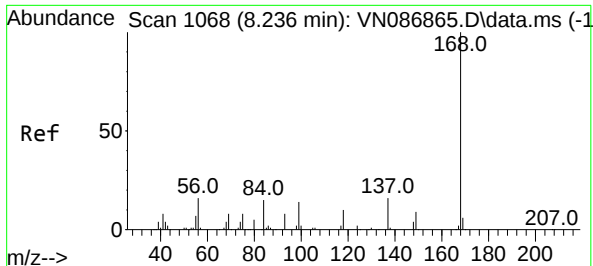
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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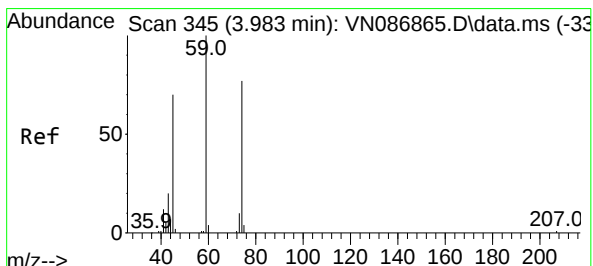
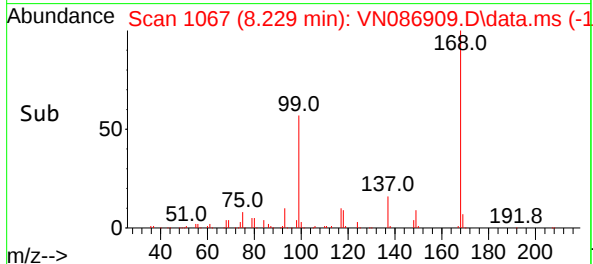
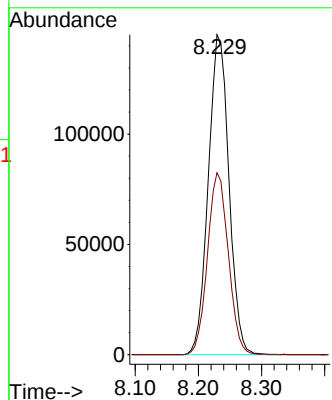
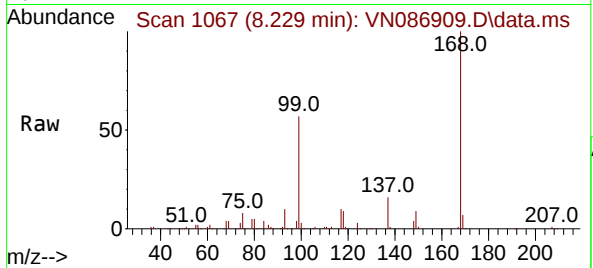




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.007 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

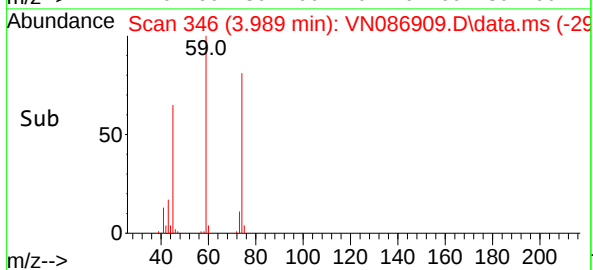
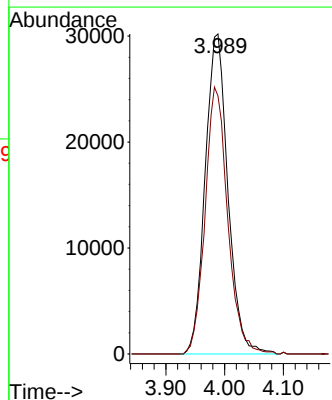
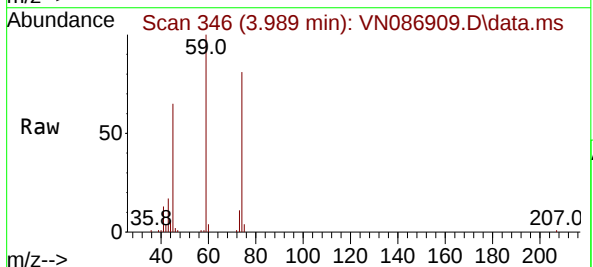
Instrument :
MSVOA_N
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TP08-MHI-WC

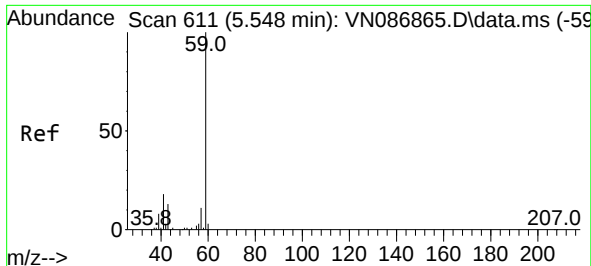
Tgt Ion:168 Resp: 329169
Ion Ratio Lower Upper
168 100
99 56.9 49.1 73.7



#8
Diethyl Ether
Concen: 32.634 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

Tgt Ion: 74 Resp: 81216
Ion Ratio Lower Upper
74 100
45 82.8 45.5 136.5

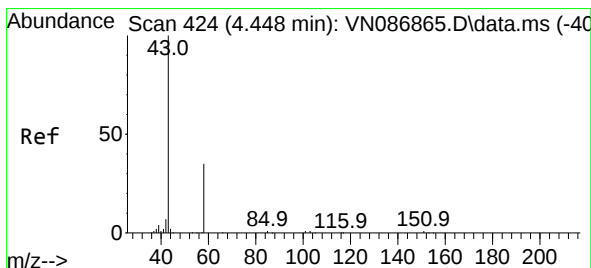
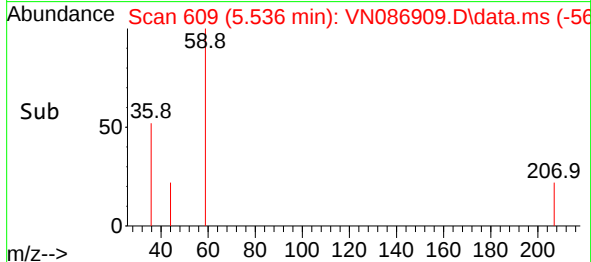
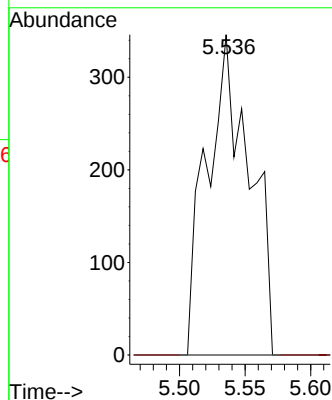
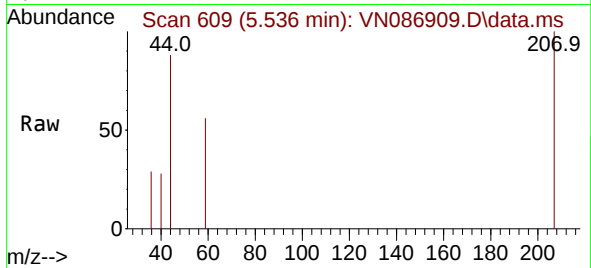




#11
Tert butyl alcohol
Concen: 0.656 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

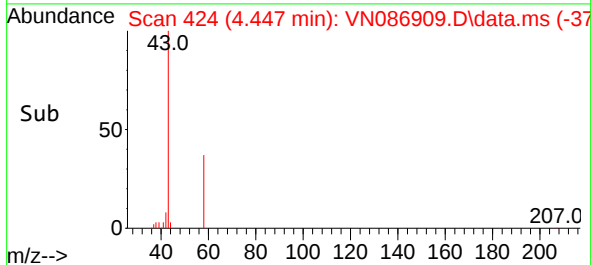
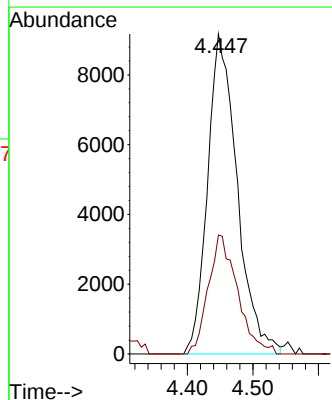
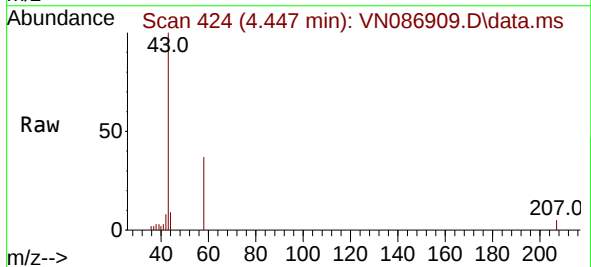
Instrument :
MSVOA_N
ClientSampleId :
TP08-MHI-WC

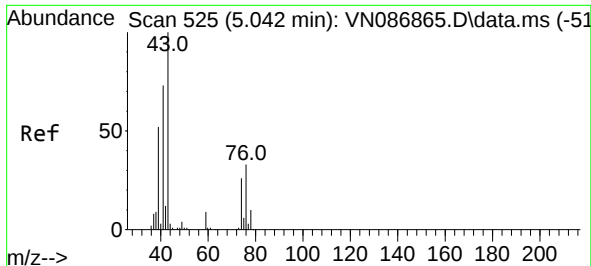
Tgt Ion: 59 Resp: 785
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 12.318 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

Tgt Ion: 43 Resp: 28790
Ion Ratio Lower Upper
43 100
58 37.2 28.0 42.0

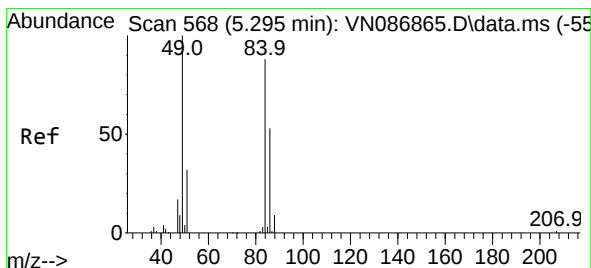
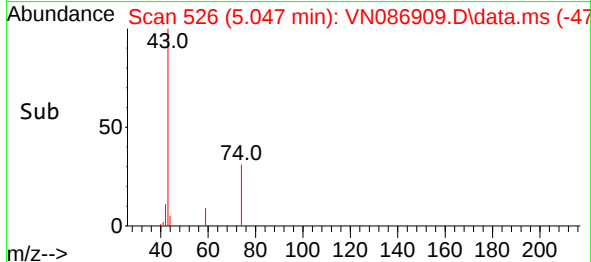
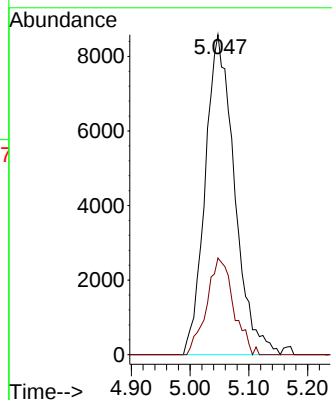
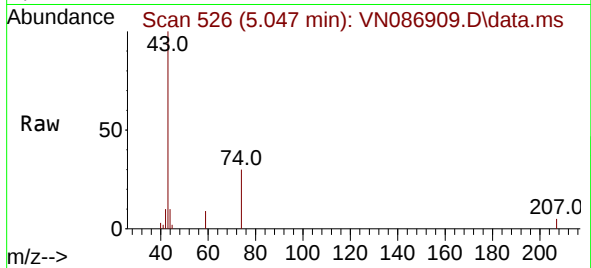




#18
Methyl Acetate
Concen: 4.366 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

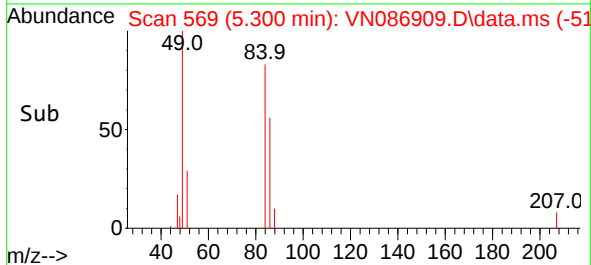
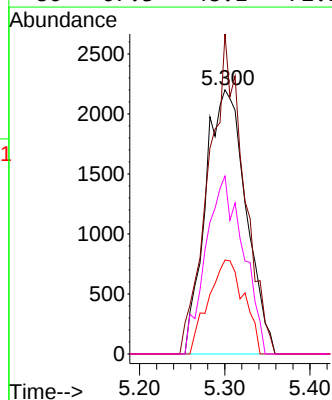
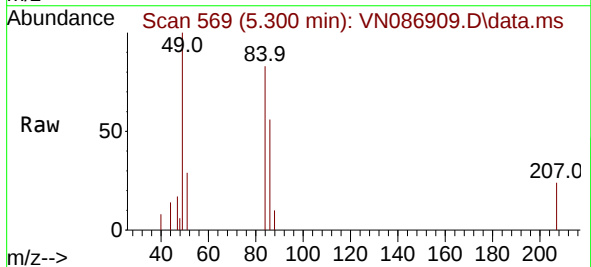
Instrument :
MSVOA_N
ClientSampleId :
TP08-MHI-WC

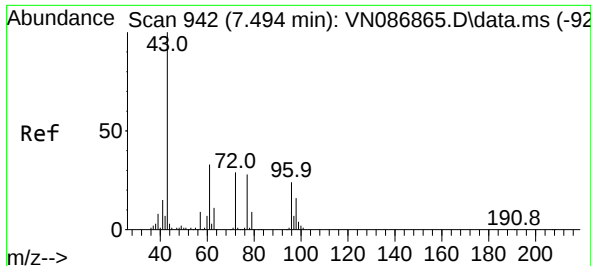
Tgt Ion: 43 Resp: 29734
Ion Ratio Lower Upper
43 100
74 27.7 20.7 31.1



#20
Methylene Chloride
Concen: 1.667 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

Tgt Ion: 84 Resp: 7293
Ion Ratio Lower Upper
84 100
49 121.1 90.5 135.7
51 35.6 28.5 42.7
86 67.3 48.1 72.1

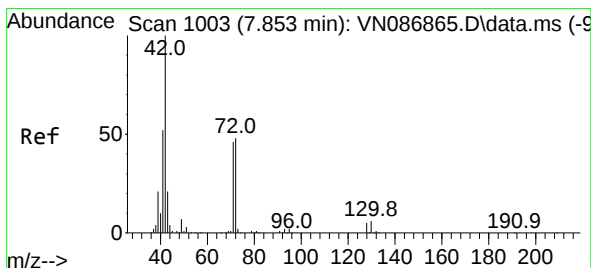
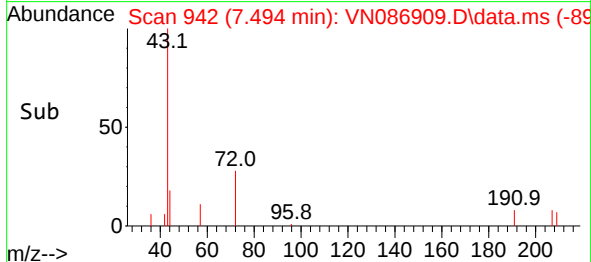
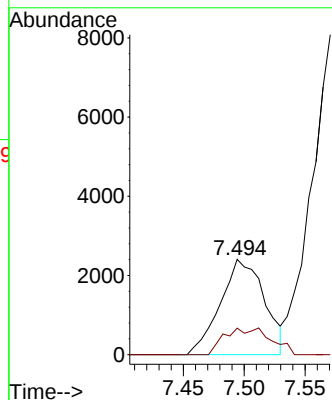
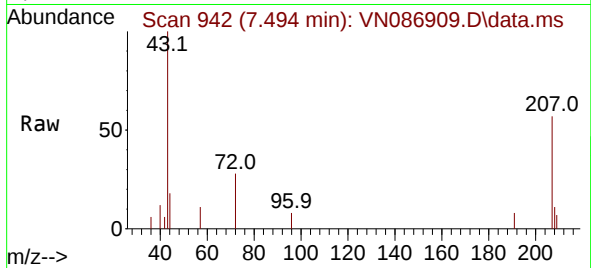




#25
2-Butanone
Concen: 1.595 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

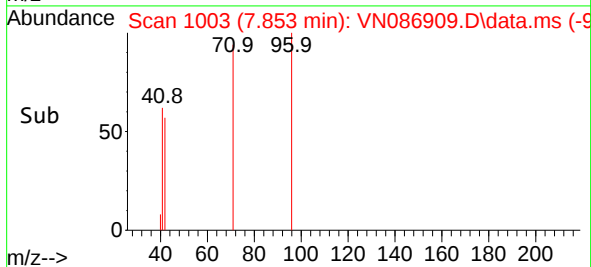
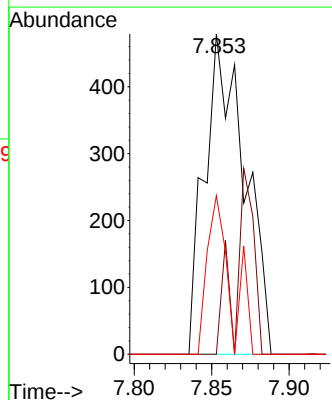
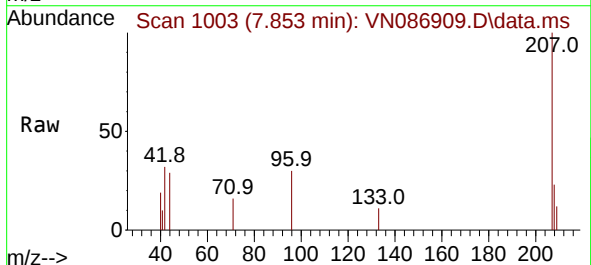
Instrument :
MSVOA_N
ClientSampleId :
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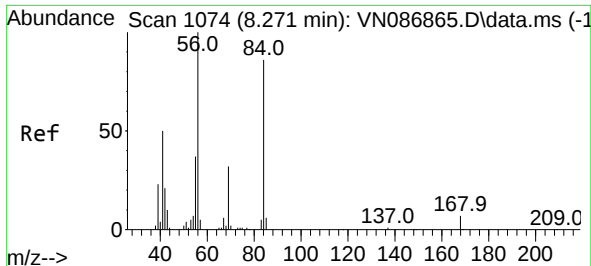
Tgt Ion: 43 Resp: 6059
Ion Ratio Lower Upper
43 100
72 27.8 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.348 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

Tgt Ion: 42 Resp: 860
Ion Ratio Lower Upper
42 100
72 26.9 37.8 56.6#
71 29.1 35.6 53.4#

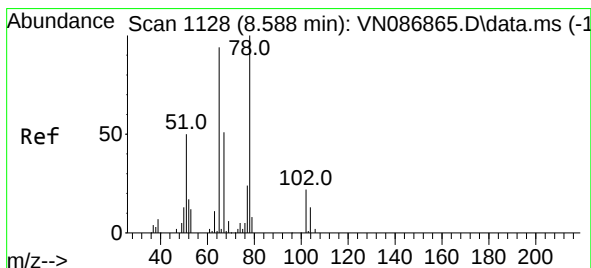
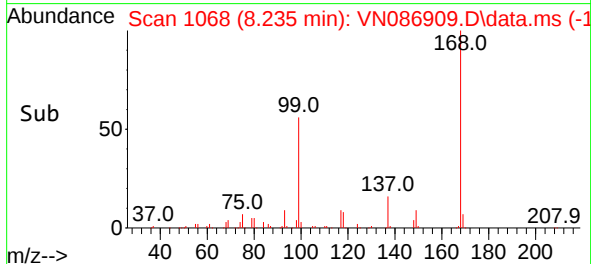
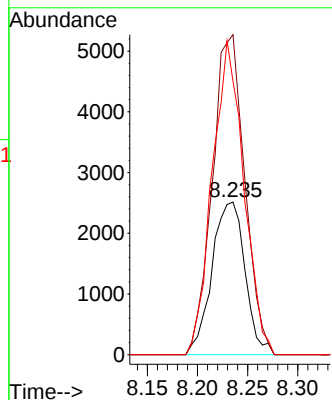
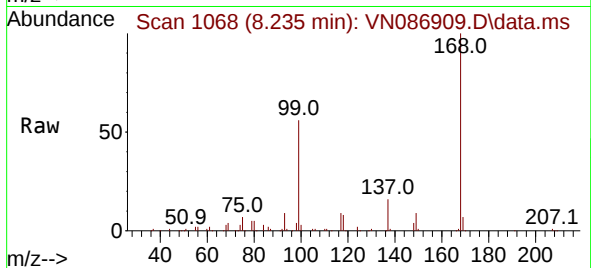




#31
Cyclohexane
Concen: 0.806 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.036 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

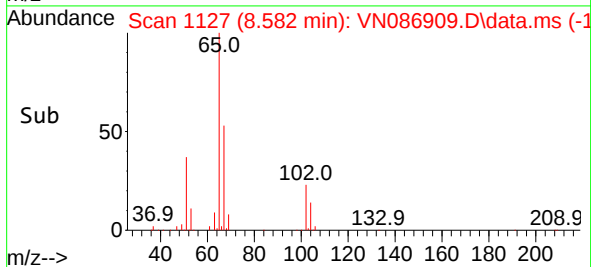
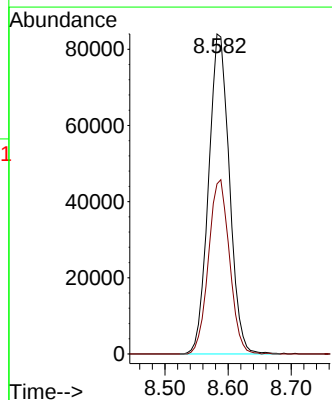
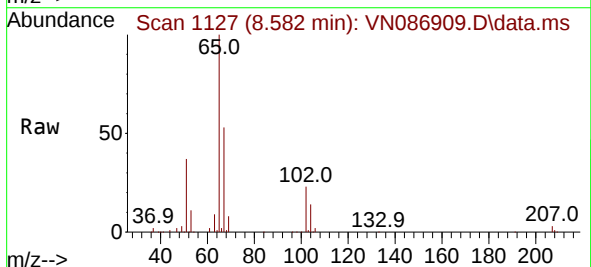
Instrument :
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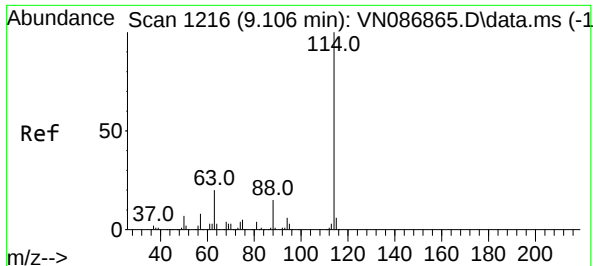
Tgt Ion: 56 Resp: 5761
Ion Ratio Lower Upper
56 100
69 209.6 25.4 38.0#
84 179.0 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 43.601 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

Tgt Ion: 65 Resp: 192160
Ion Ratio Lower Upper
65 100
67 54.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086909.D

Acq: 09 Jun 2025 16:34

Instrument :

MSVOA_N

ClientSampleId :

TP08-MHI-WC

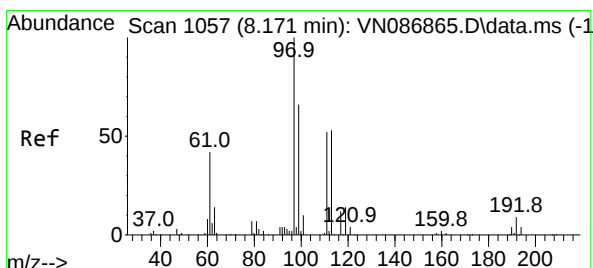
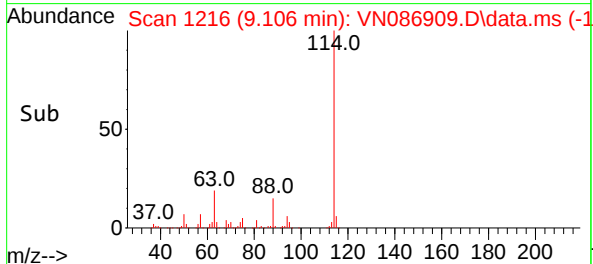
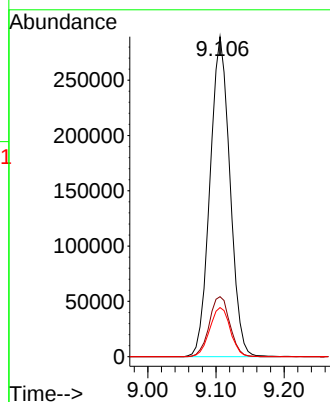
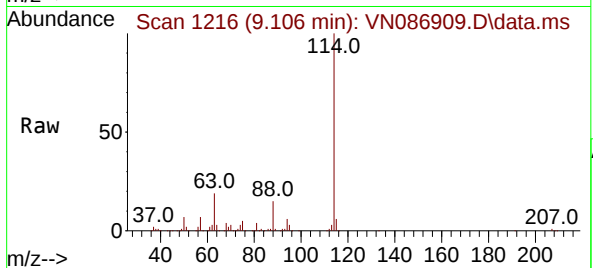
Tgt Ion:114 Resp: 589208

Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.6

88 15.3 0.0 30.2



#35

Dibromofluoromethane

Concen: 47.805 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086909.D

Acq: 09 Jun 2025 16:34

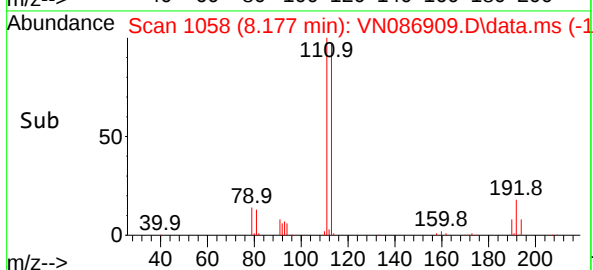
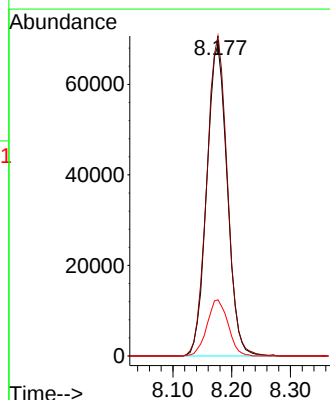
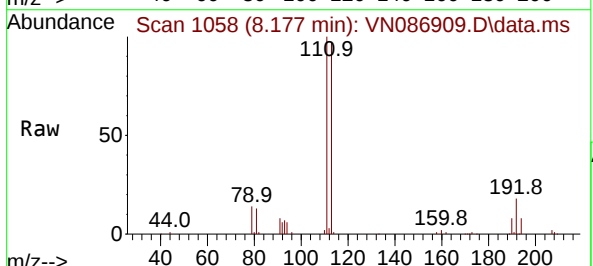
Tgt Ion:113 Resp: 166924

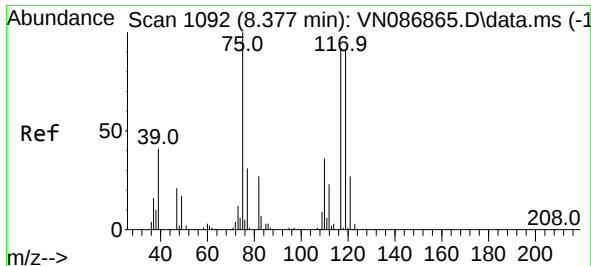
Ion Ratio Lower Upper

113 100

111 103.0 84.2 126.2

192 18.5 14.2 21.4

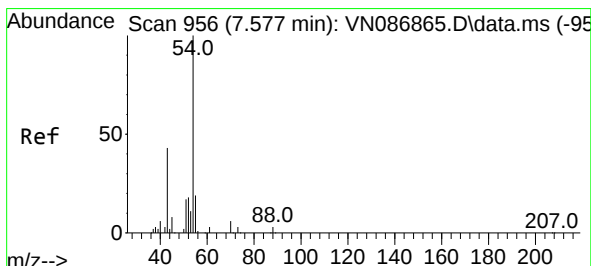
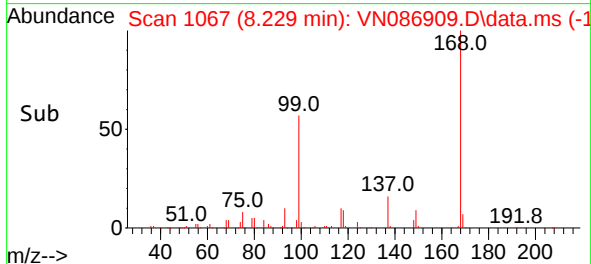
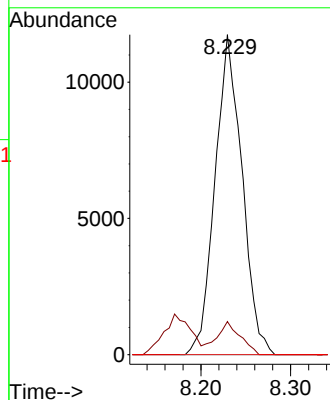
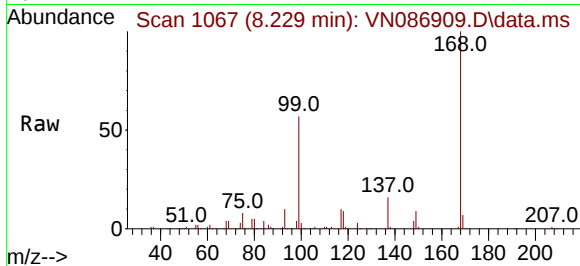




#36
1,1-Dichloropropene
Concen: 4.712 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

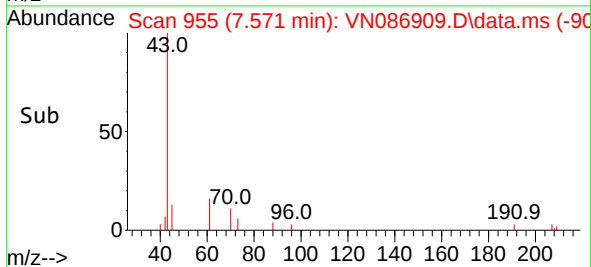
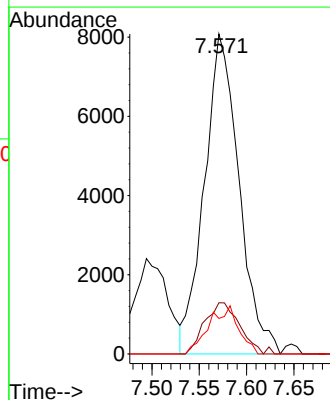
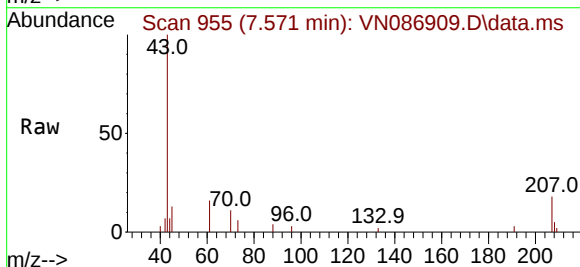
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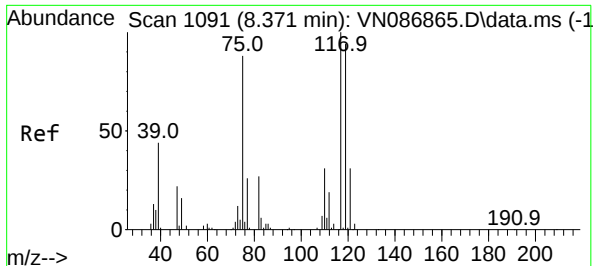
Tgt Ion: 75 Resp: 24517
Ion Ratio Lower Upper
75 100
110 8.6 17.6 52.9#
77 0.0 25.3 37.9#



#37
Ethyl Acetate
Concen: 3.094 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.006 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

Tgt Ion: 43 Resp: 20490
Ion Ratio Lower Upper
43 100
61 16.4 12.1 18.1
70 12.9 9.8 14.6

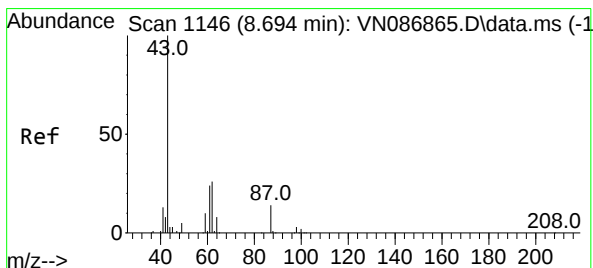
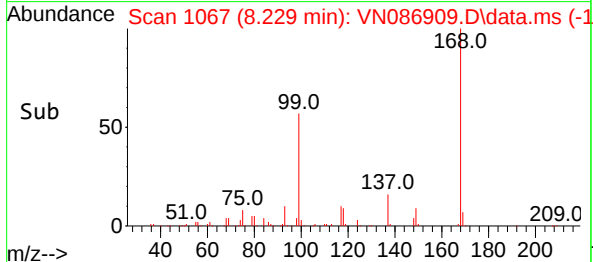
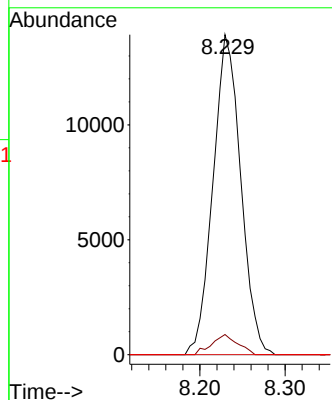
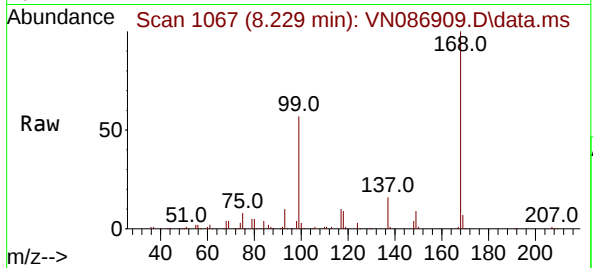




#38
Carbon Tetrachloride
Concen: 6.154 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

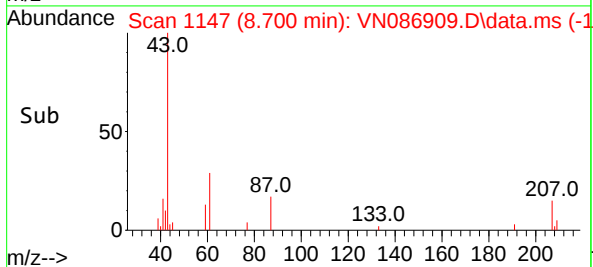
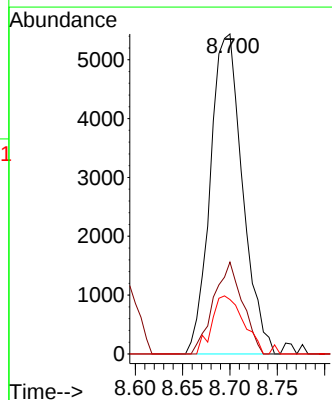
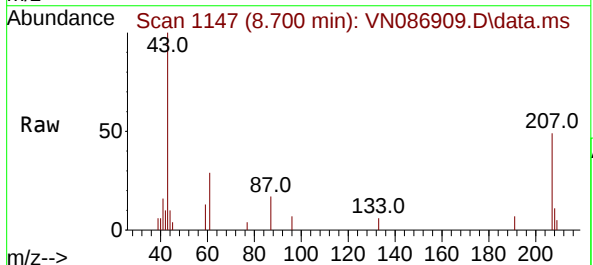
Instrument :
MSVOA_N
ClientSampleId :
TP08-MHI-WC

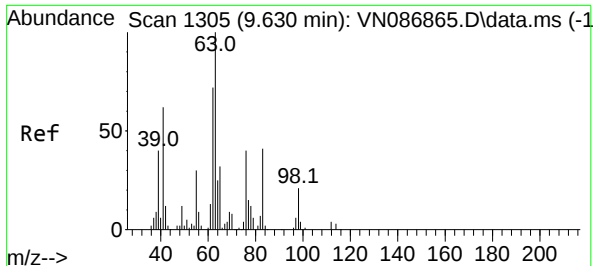
Tgt Ion:117 Resp: 31438
Ion Ratio Lower Upper
117 100
119 6.3 75.0 112.6#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.210 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

Tgt Ion: 43 Resp: 12867
Ion Ratio Lower Upper
43 100
61 25.8 22.1 33.1
87 17.7 11.8 17.6#





#45

1,2-Dichloropropane

Concen: 0.436 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN086909.D

Acq: 09 Jun 2025 16:34

Instrument :

MSVOA_N

ClientSampleId :

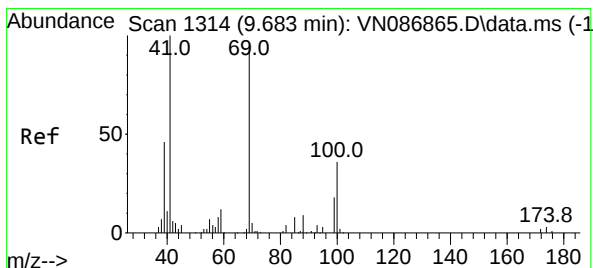
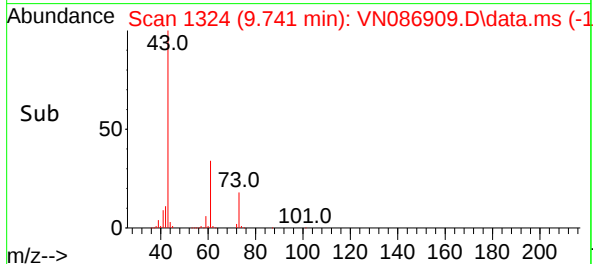
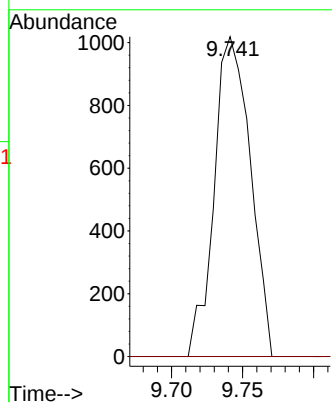
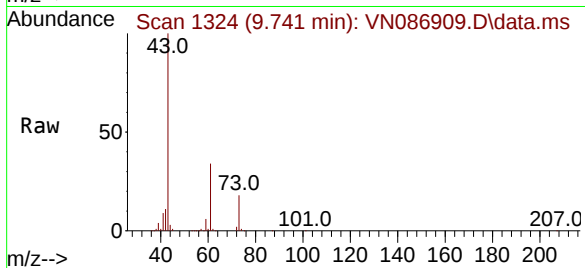
TP08-MHI-WC

Tgt Ion: 63 Resp: 1806

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 20.355 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.064 min

Lab File: VN086909.D

Acq: 09 Jun 2025 16:34

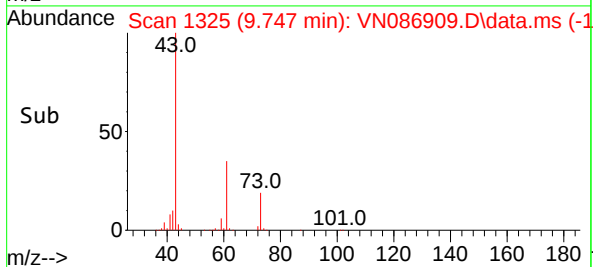
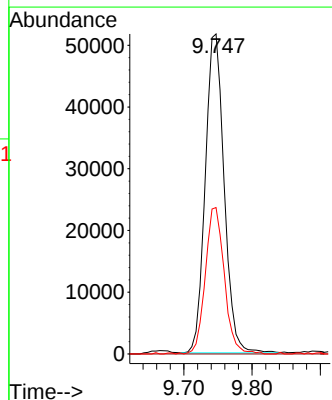
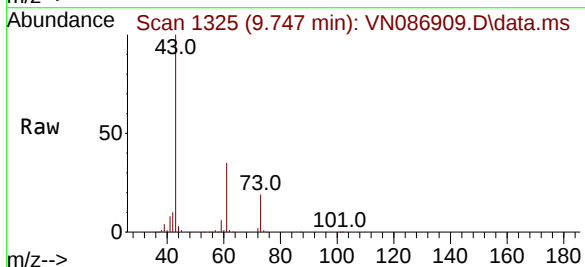
Tgt Ion: 41 Resp: 99596

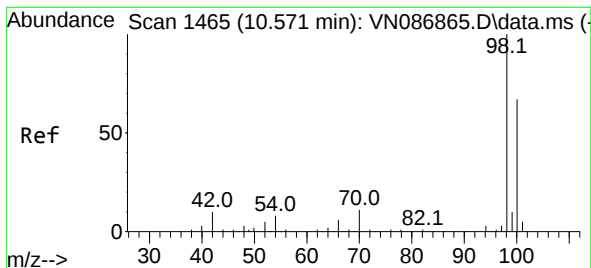
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 46.4 40.2 60.4

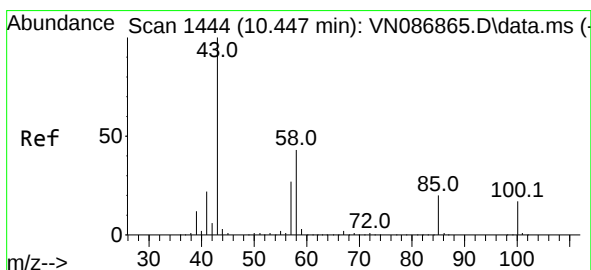
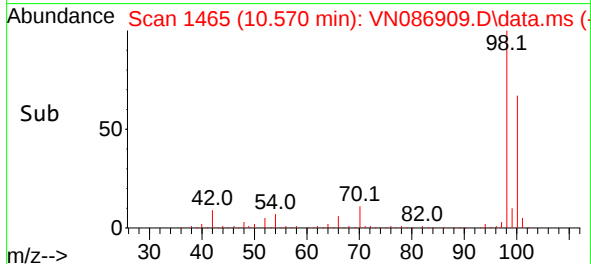
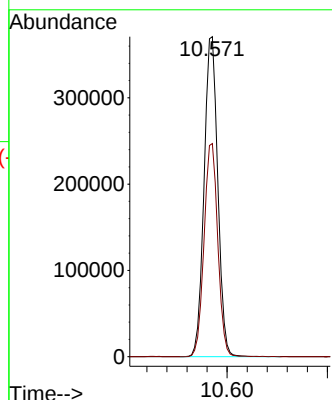
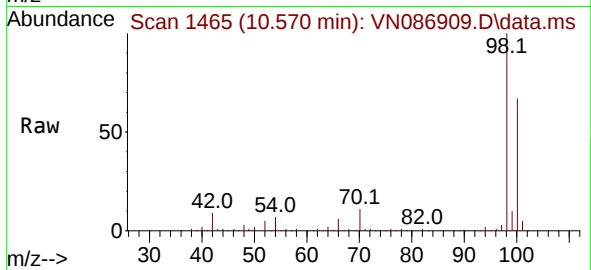




#50
Toluene-d8
Concen: 50.963 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

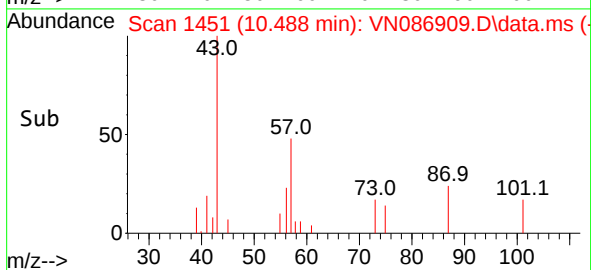
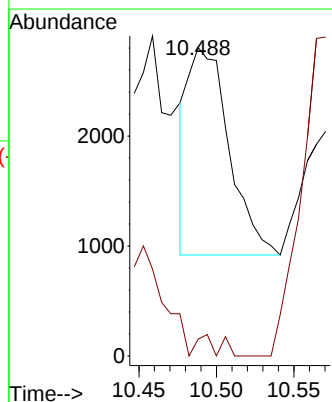
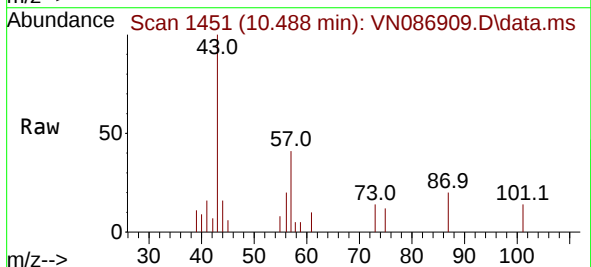
Instrument :
MSVOA_N
ClientSampleId :
TP08-MHI-WC

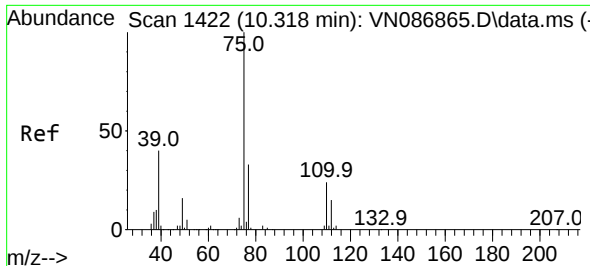
Tgt Ion: 98 Resp: 704465
Ion Ratio Lower Upper
98 100
100 66.7 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 0.545 ug/l
RT: 10.488 min Scan# 1451
Delta R.T. 0.041 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

Tgt Ion: 43 Resp: 3487
Ion Ratio Lower Upper
43 100
58 0.0 34.2 51.4#

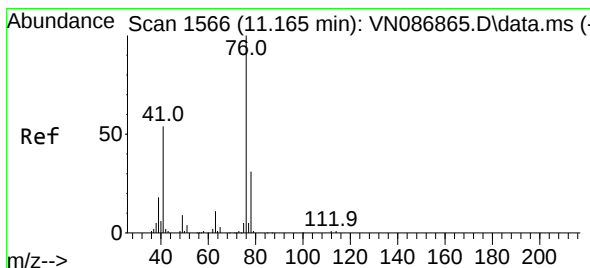
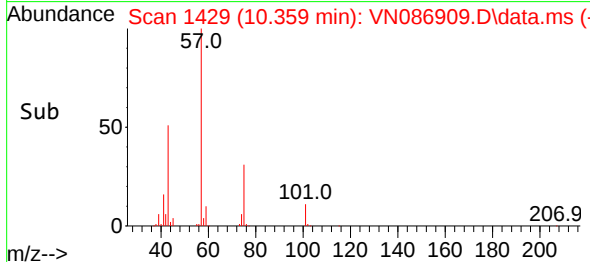
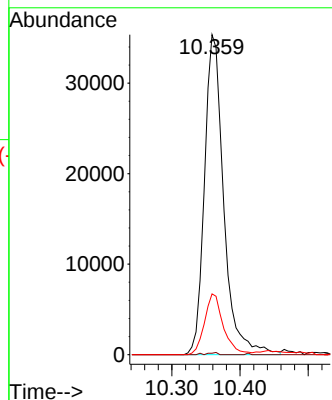
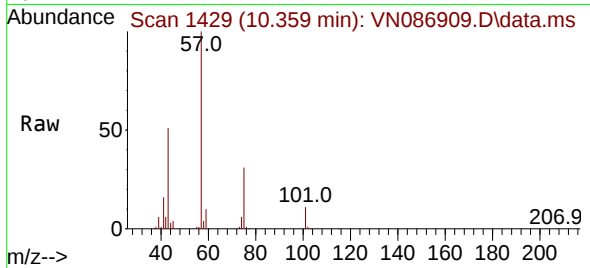




#54
 cis-1,3-Dichloropropene
 Concen: 10.264 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN086909.D
 Acq: 09 Jun 2025 16:34

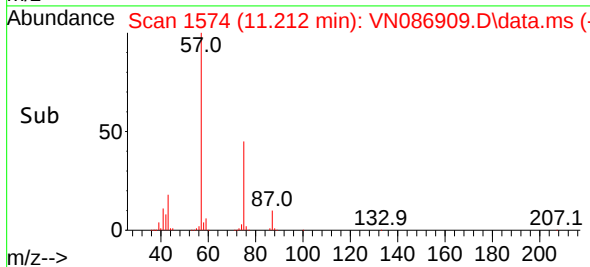
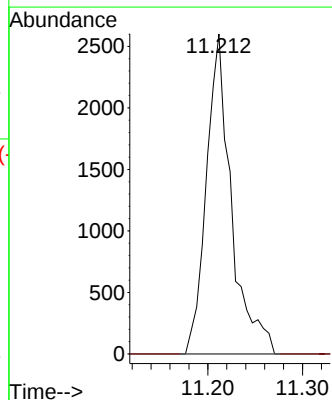
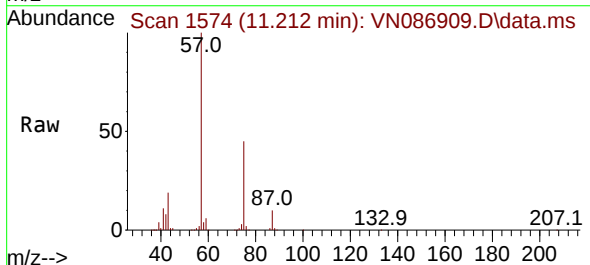
Instrument :
 MSVOA_N
 ClientSampleId :
 TP08-MHI-WC

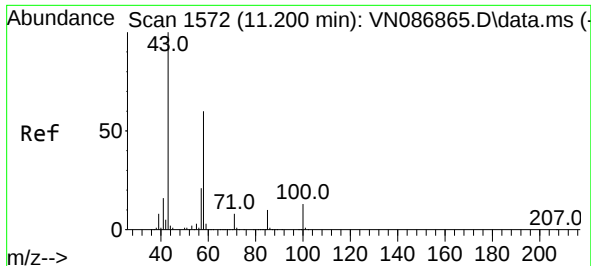
Tgt Ion: 75 Resp: 69465
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.2 39.4#
 39 19.0 32.3 48.5#



#57
 1,3-Dichloropropane
 Concen: 0.686 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.047 min
 Lab File: VN086909.D
 Acq: 09 Jun 2025 16:34

Tgt Ion: 76 Resp: 4760
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#

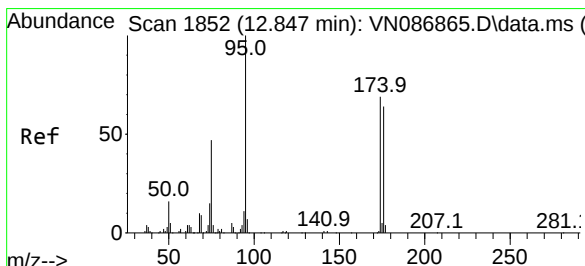
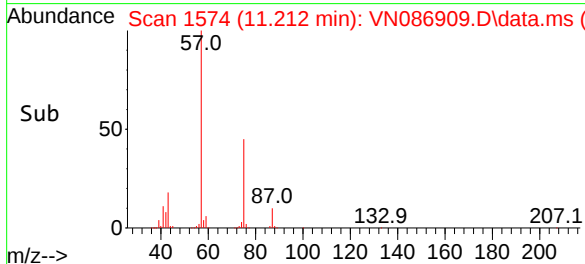
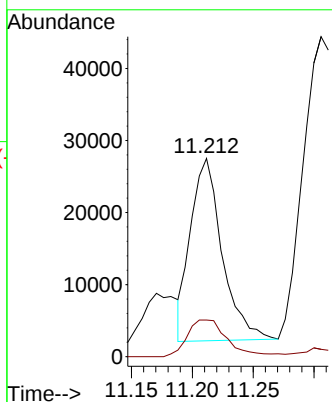
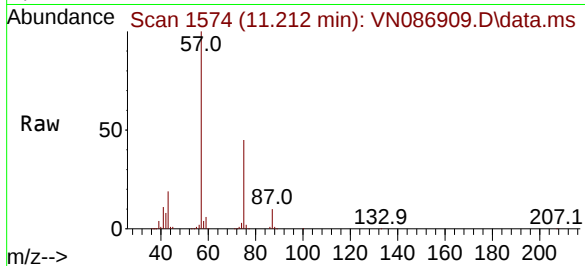




#59
2-Hexanone
Concen: 11.058 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

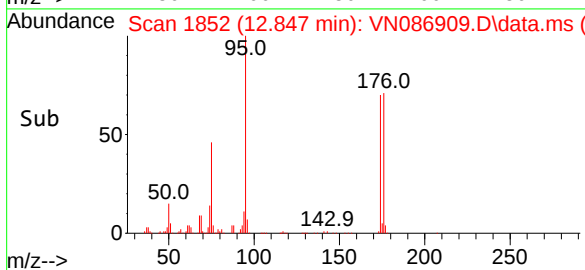
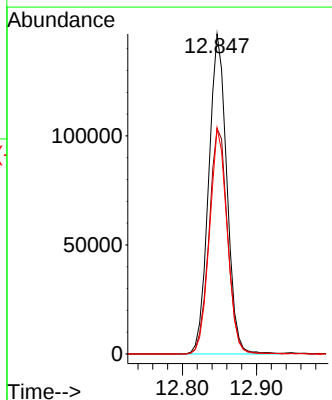
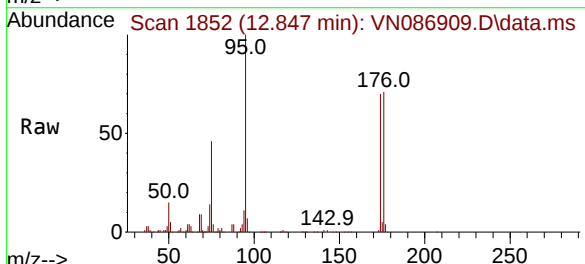
Instrument :
MSVOA_N
ClientSampleId :
TP08-MHI-WC

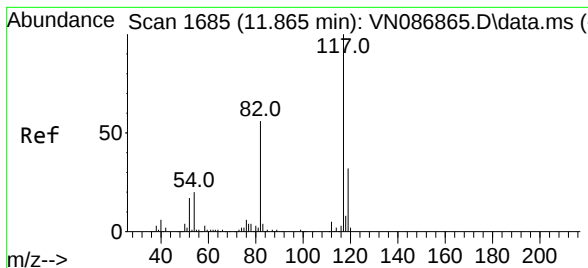
Tgt Ion: 43 Resp: 45587
Ion Ratio Lower Upper
43 100
58 26.0 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 48.522 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

Tgt Ion: 95 Resp: 249195
Ion Ratio Lower Upper
95 100
174 72.0 0.0 141.8
176 68.9 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086909.D

Acq: 09 Jun 2025 16:34

Instrument :

MSVOA_N

ClientSampleId :

TP08-MHI-WC

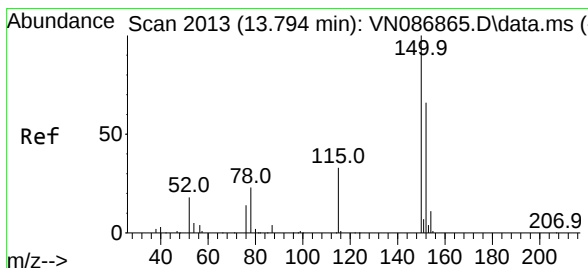
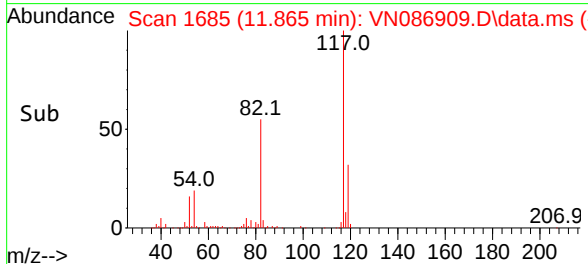
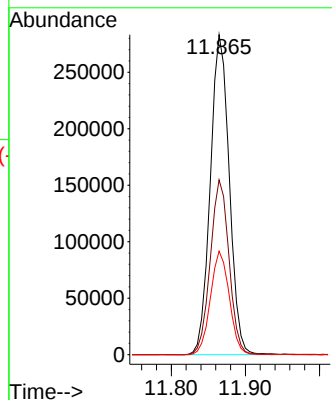
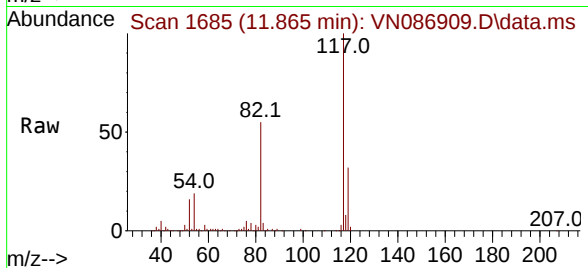
Tgt Ion:117 Resp: 503460

Ion Ratio Lower Upper

117 100

82 54.7 44.6 67.0

119 32.4 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN086909.D

Acq: 09 Jun 2025 16:34

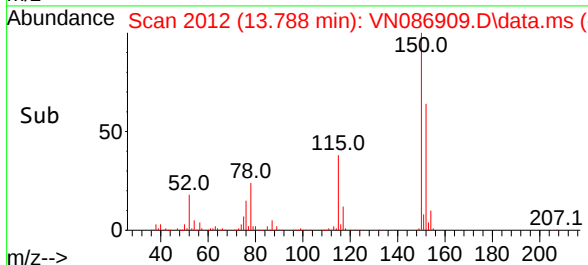
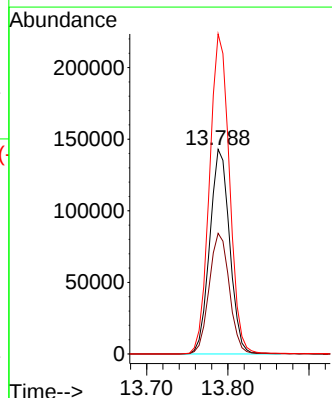
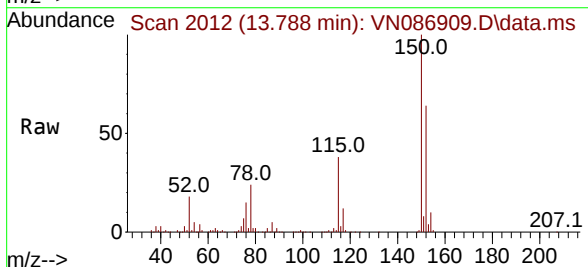
Tgt Ion:152 Resp: 243469

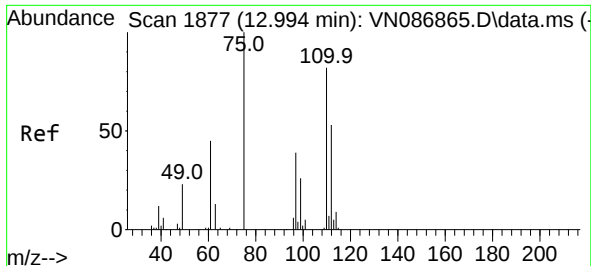
Ion Ratio Lower Upper

152 100

115 59.8 30.1 90.5

150 156.9 0.0 345.0

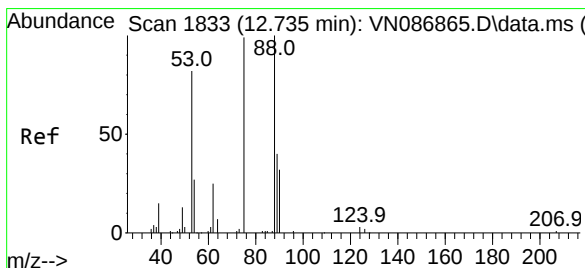
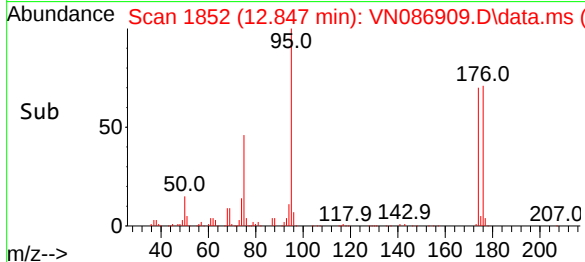
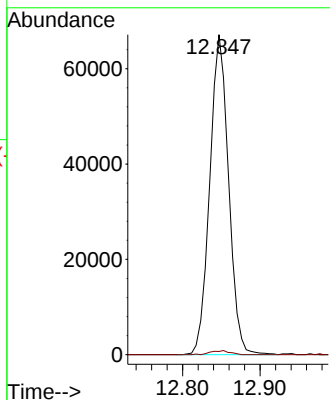
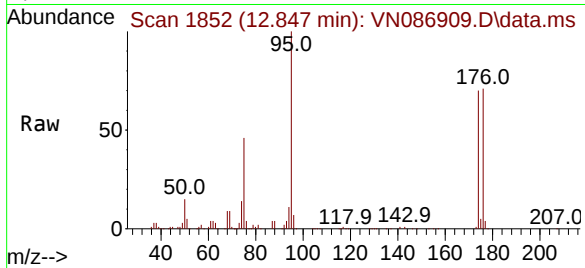




#76
1,2,3-Trichloropropane
Concen: 19.632 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

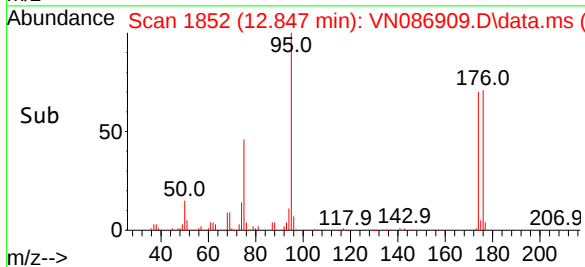
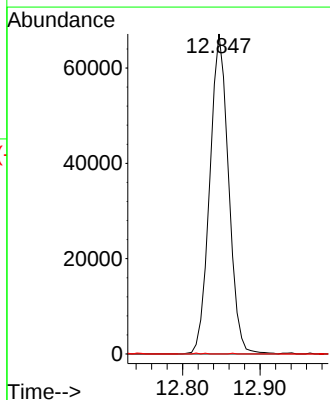
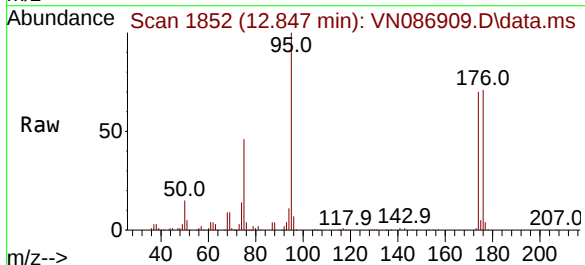
Instrument :
MSVOA_N
ClientSampleId :
TP08-MHI-WC

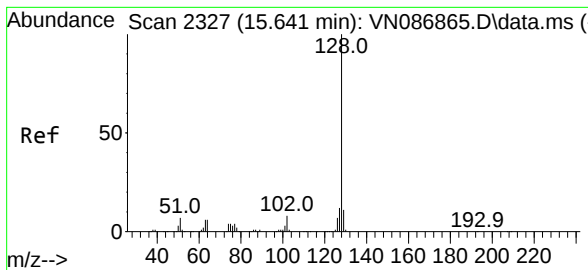
Tgt Ion: 75 Resp: 113615
Ion Ratio Lower Upper
75 100
77 1.3 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 45.191 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086909.D
Acq: 09 Jun 2025 16:34

Tgt Ion: 75 Resp: 113615
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.1 36.7 55.1#





#95
 Naphthalene
 Concen: 1.501 ug/l
 RT: 15.635 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN086909.D
 Acq: 09 Jun 2025 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 TP08-MHI-WC

Tgt Ion:128	Resp:	27440
Ion	Ratio	Lower Upper
128	100	
127	13.3	10.2 15.2
129	11.7	8.8 13.2

