

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
 Data File : VN086907.D
 Acq On : 09 Jun 2025 15:51
 Operator : JC\MD
 Sample : Q2206-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Jun 10 03:35:06 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)

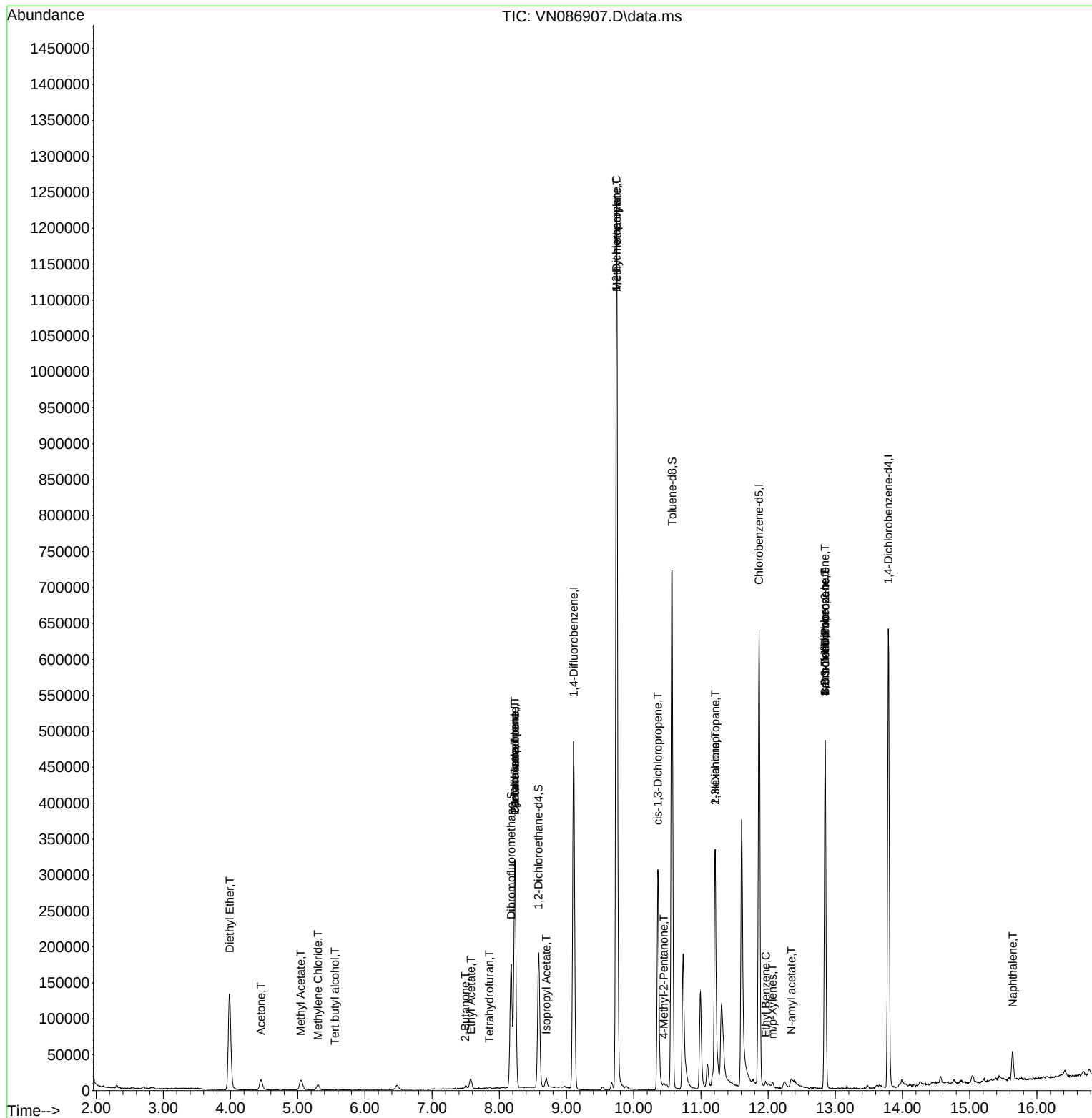
Internal Standards						
1) Pentafluorobenzene	8.230	168	255511	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	454815	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	397708	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	189651	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	151168	44.188	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.380%		
35) Dibromofluoromethane	8.177	113	133415	49.498	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.000%		
50) Toluene-d8	10.571	98	544847	51.063	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.120%		
62) 4-Bromofluorobenzene	12.847	95	195294	49.264	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	98.520%		
Target Compounds					Qvalue	
8) Diethyl Ether	3.989	74	91878	47.561	ug/l	94
11) Tert butyl alcohol	5.553	59	391	0.421	ug/l #	73
16) Acetone	4.453	43	28526	15.724	ug/l	99
18) Methyl Acetate	5.048	43	30426	5.755	ug/l	96
20) Methylene Chloride	5.300	84	5948	1.751	ug/l	92
25) 2-Butanone	7.494	43	5684	1.927	ug/l	100
29) Tetrahydrofuran	7.853	42	944	0.491	ug/l #	62
31) Cyclohexane	8.230	56	4629	0.834	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	18913	4.709	ug/l #	49
37) Ethyl Acetate	7.577	43	21854	4.274	ug/l	98
38) Carbon Tetrachloride	8.230	117	24167	6.129	ug/l #	18
43) Isopropyl Acetate	8.700	43	13776	1.679	ug/l #	93
45) 1,2-Dichloropropane	9.741	63	1868	0.585	ug/l #	43
48) Methyl methacrylate	9.747	41	102814	27.221	ug/l #	35
51) 4-Methyl-2-Pentanone	10.447	43	5634	1.140	ug/l	87
54) cis-1,3-Dichloropropene	10.359	75	74360	14.233	ug/l #	55
57) 1,3-Dichloropropane	11.212	76	5079	0.948	ug/l #	43
59) 2-Hexanone	11.212	43	51865	16.299	ug/l #	51
67) Ethyl Benzene	11.965	91	5092	0.337	ug/l	98
68) m/p-Xylenes	12.065	106	2172	0.376	ug/l	98
71) Bromoform	12.847	173	895	0.428	ug/l #	1
74) N-amyl acetate	12.347	43	9554	1.979	ug/l #	47
76) 1,2,3-Trichloropropane	12.847	75	87476	19.404	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	87476	44.668	ug/l #	16
95) Naphthalene	15.641	128	42632	2.995	ug/l	99

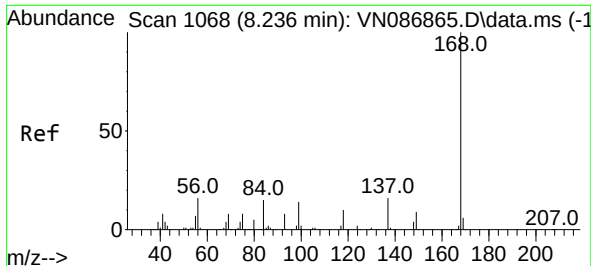
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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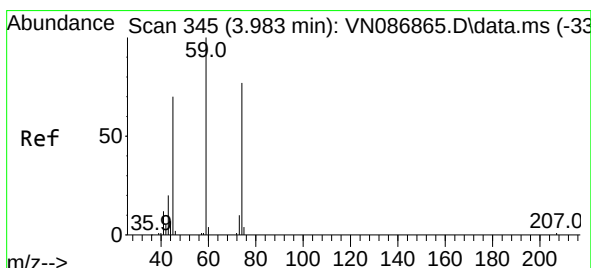
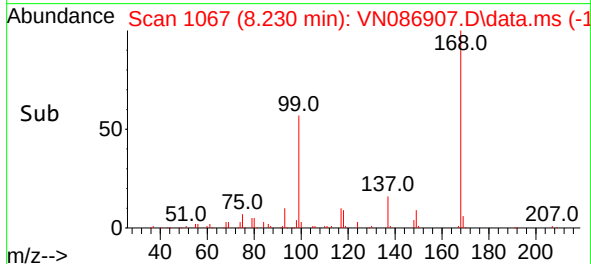
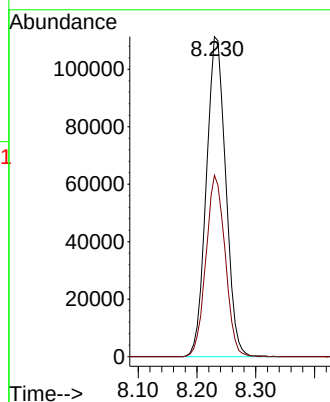
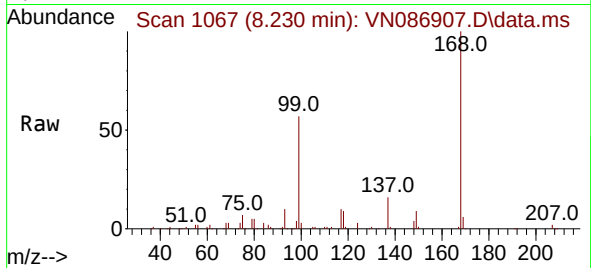




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

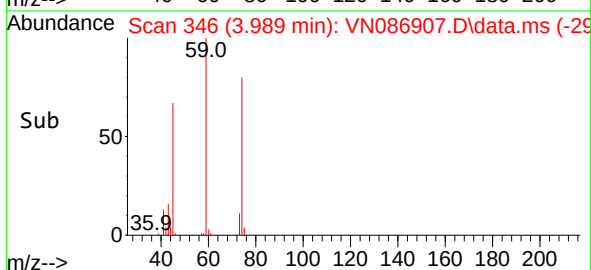
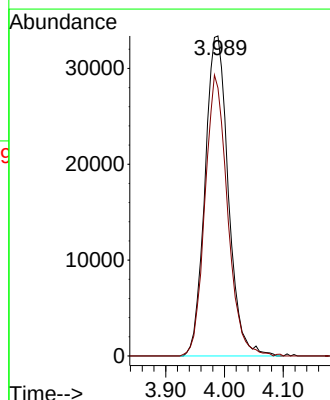
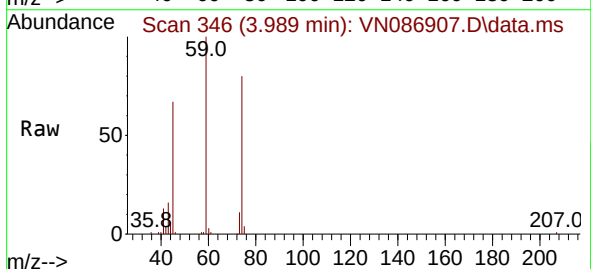
Instrument :
MSVOA_N
ClientSampleId :
TP-1

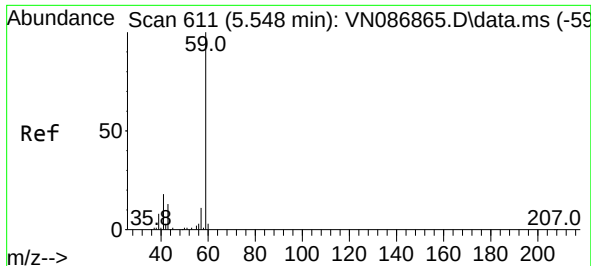
Tgt Ion:168 Resp: 255511
Ion Ratio Lower Upper
168 100
99 56.7 49.1 73.7



#8
Diethyl Ether
Concen: 47.561 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Tgt Ion: 74 Resp: 91878
Ion Ratio Lower Upper
74 100
45 85.0 45.5 136.5

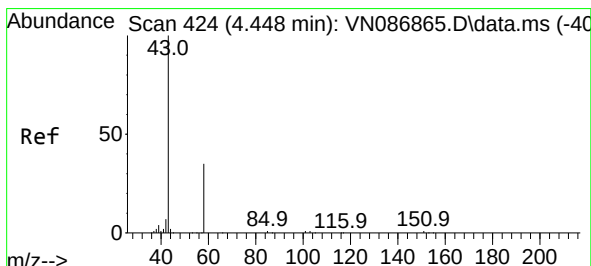
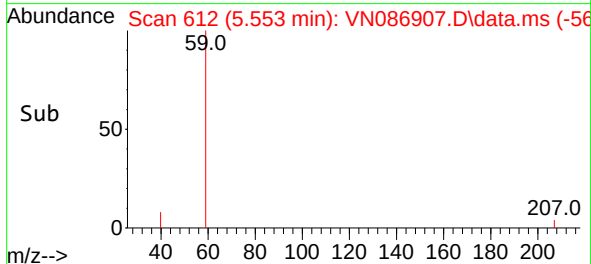
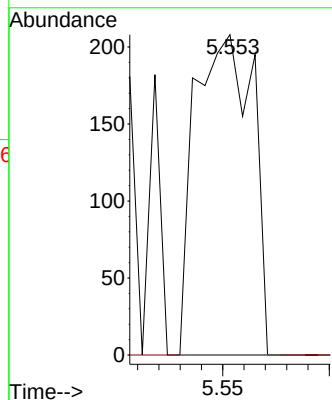
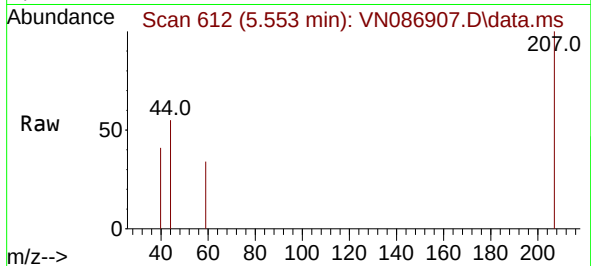




#11
Tert butyl alcohol
Concen: 0.421 ug/l
RT: 5.553 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

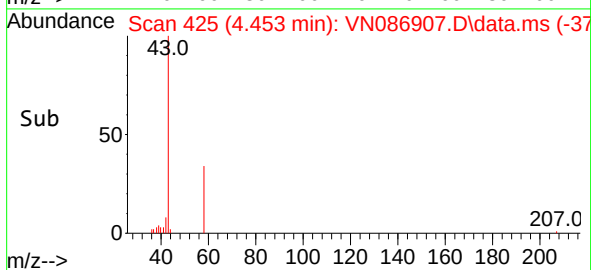
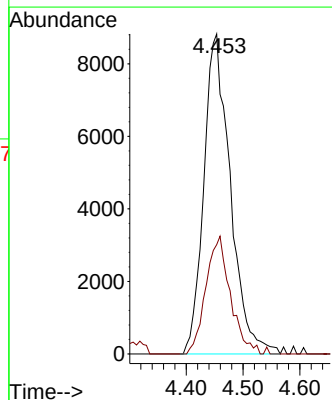
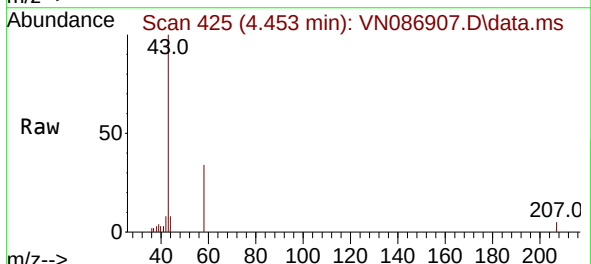
Instrument :
MSVOA_N
ClientSampleId :
TP-1

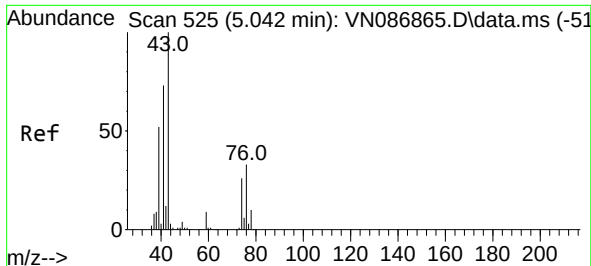
Tgt Ion: 59 Resp: 391
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 15.724 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Tgt Ion: 43 Resp: 28526
Ion Ratio Lower Upper
43 100
58 34.1 28.0 42.0

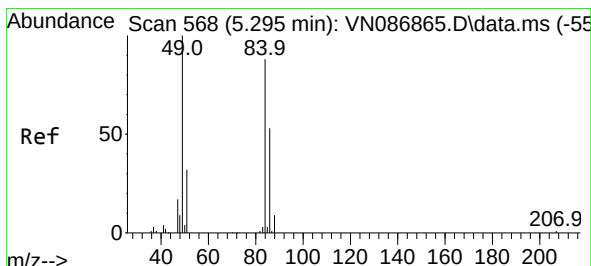
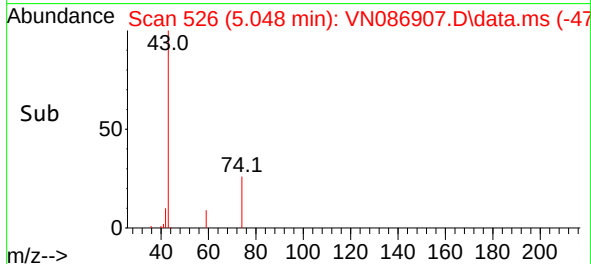
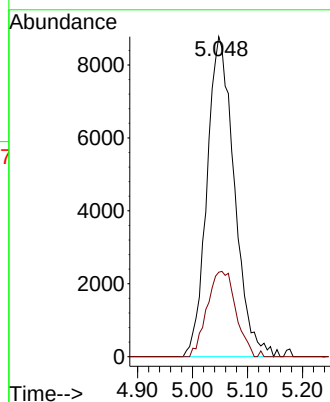
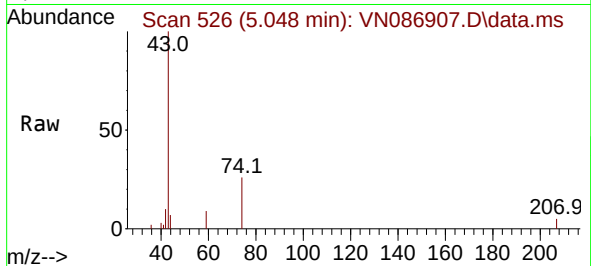




#18
Methyl Acetate
Concen: 5.755 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

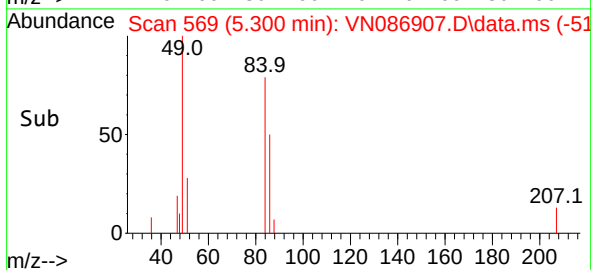
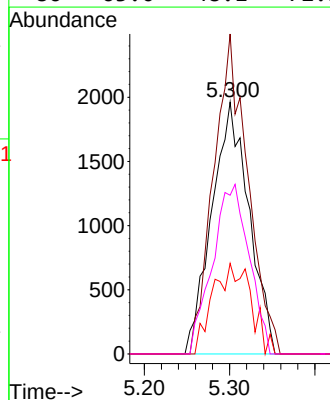
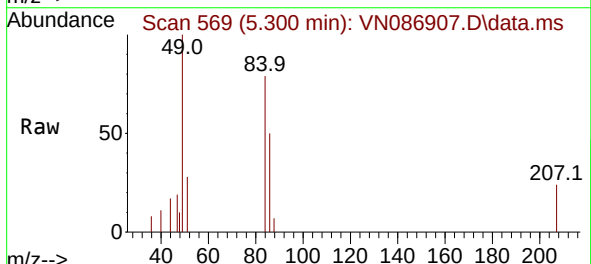
Instrument :
MSVOA_N
ClientSampleId :
TP-1

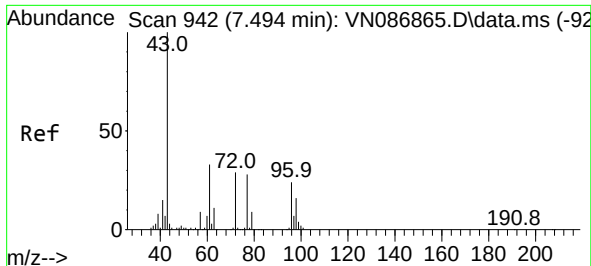
Tgt Ion: 43 Resp: 30426
Ion Ratio Lower Upper
43 100
74 27.8 20.7 31.1



#20
Methylene Chloride
Concen: 1.751 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Tgt Ion: 84 Resp: 5948
Ion Ratio Lower Upper
84 100
49 127.1 90.5 135.7
51 35.9 28.5 42.7
86 63.0 48.1 72.1

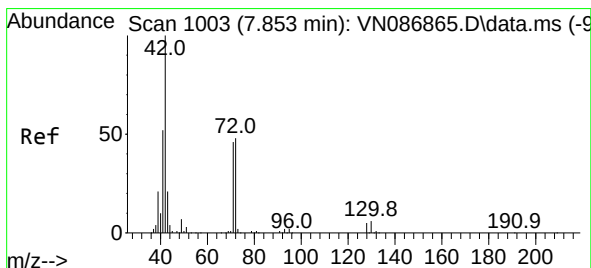
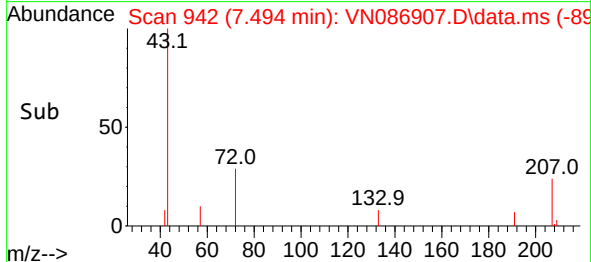
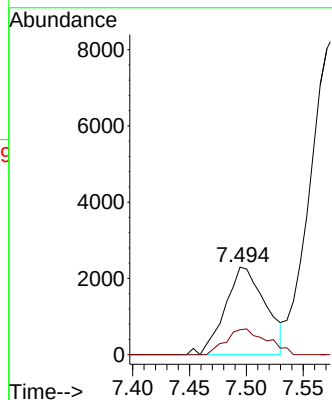
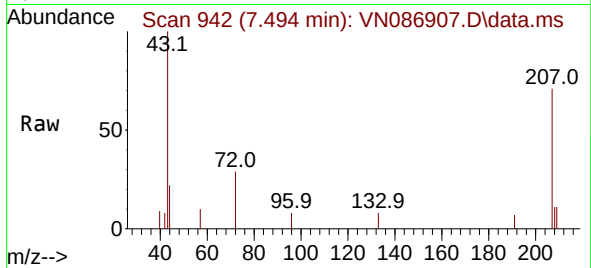




#25
2-Butanone
Concen: 1.927 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

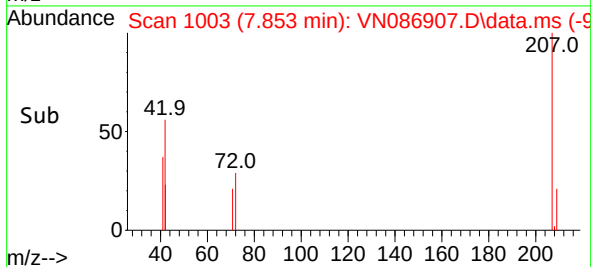
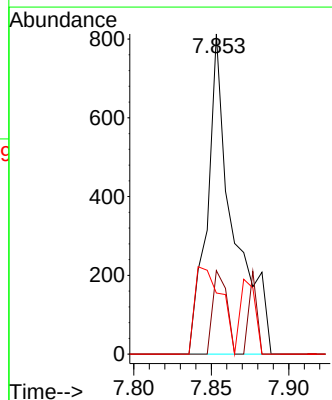
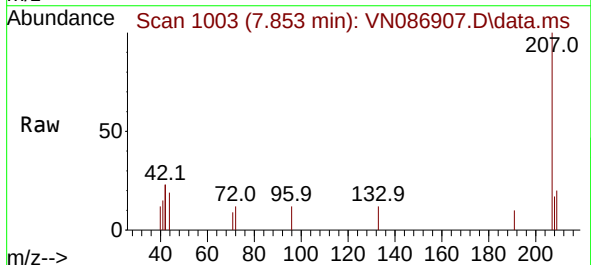
Instrument :
MSVOA_N
ClientSampleId :
TP-1

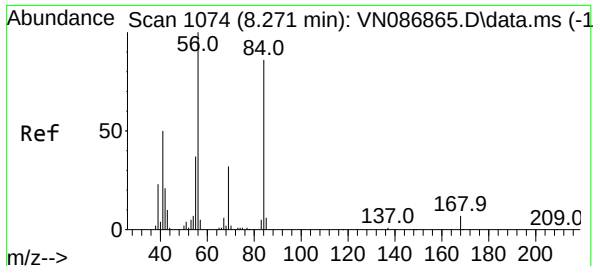
Tgt Ion: 43 Resp: 5684
Ion Ratio Lower Upper
43 100
72 28.6 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.491 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Tgt Ion: 42 Resp: 944
Ion Ratio Lower Upper
42 100
72 14.2 37.8 56.6#
71 27.6 35.6 53.4#

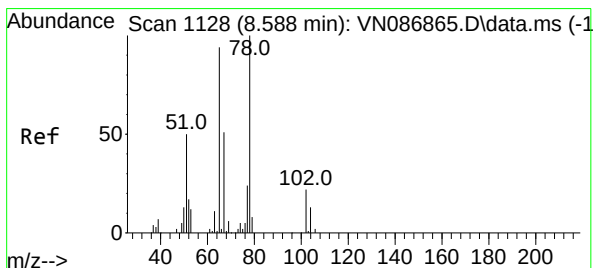
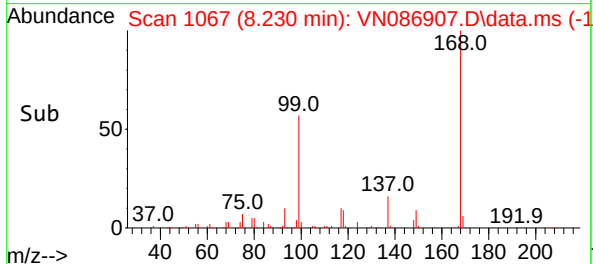
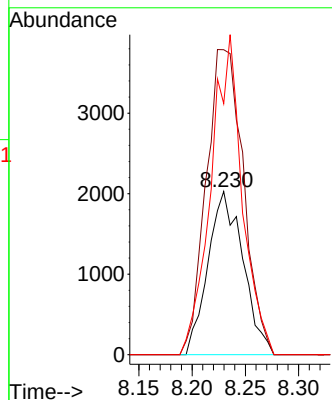
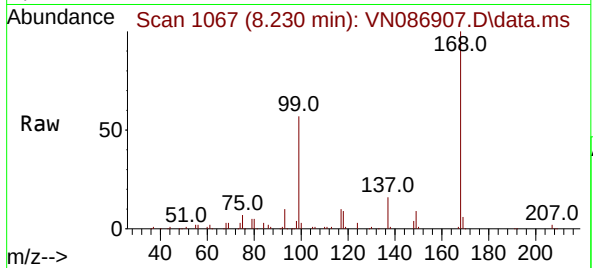




#31
Cyclohexane
Concen: 0.834 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

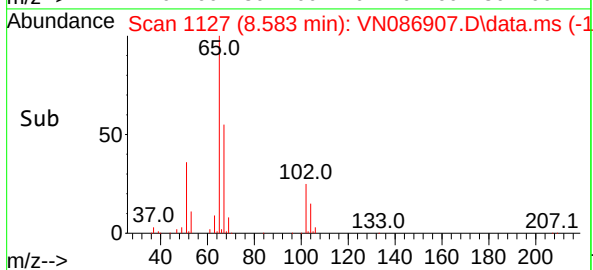
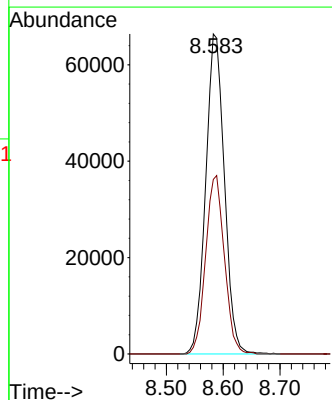
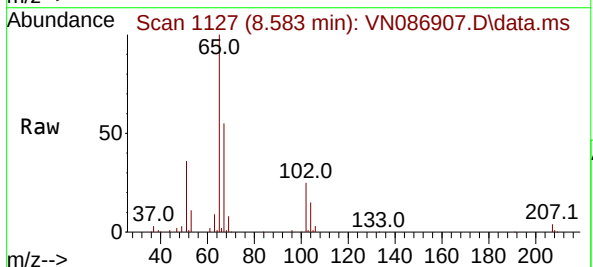
Instrument :
MSVOA_N
ClientSampleId :
TP-1

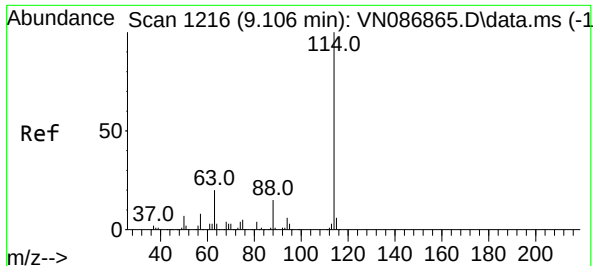
Tgt Ion: 56 Resp: 4629
Ion Ratio Lower Upper
56 100
69 186.9 25.4 38.0#
84 153.9 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 44.188 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Tgt Ion: 65 Resp: 151168
Ion Ratio Lower Upper
65 100
67 55.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

Instrument :

MSVOA_N

ClientSampleId :

TP-1

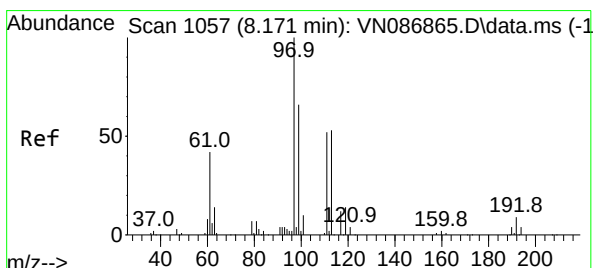
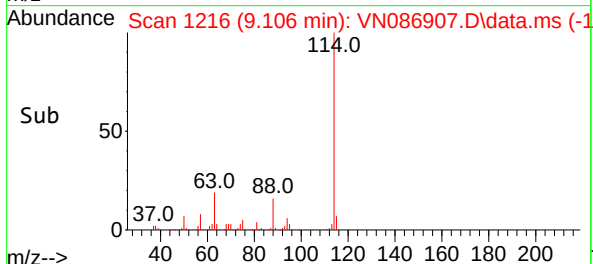
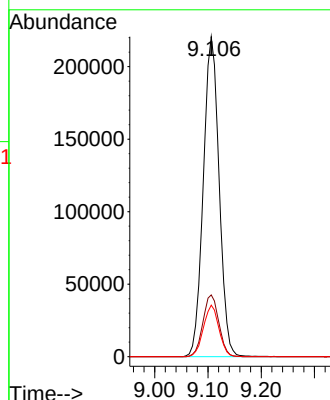
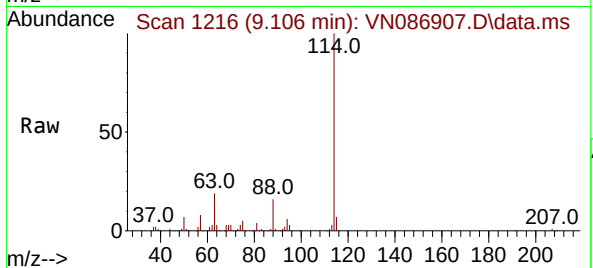
Tgt Ion:114 Resp: 454815

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 16.1 0.0 30.2



#35

Dibromofluoromethane

Concen: 49.498 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

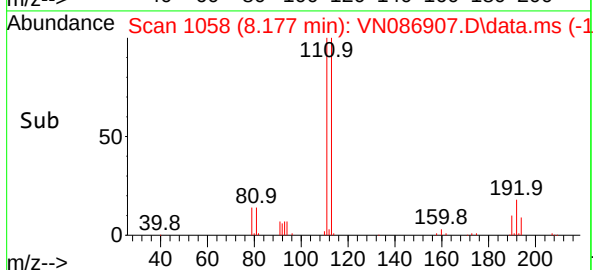
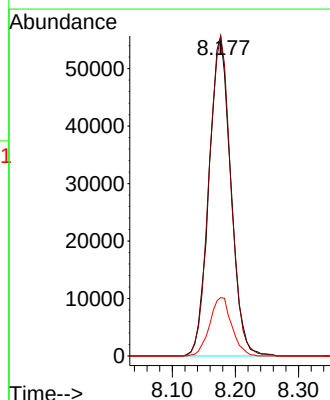
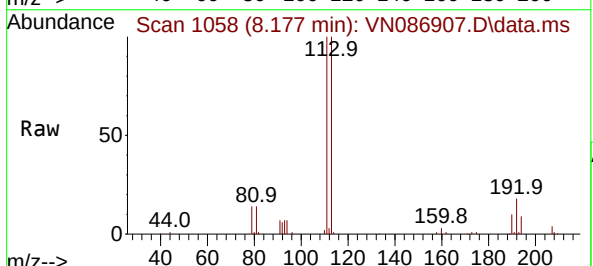
Tgt Ion:113 Resp: 133415

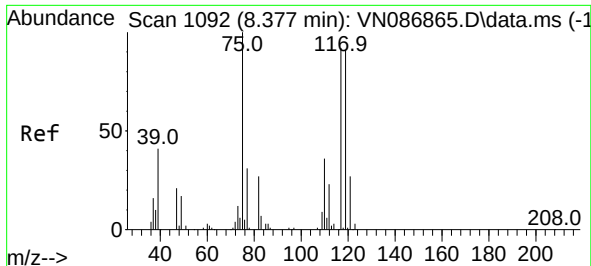
Ion Ratio Lower Upper

113 100

111 100.5 84.2 126.2

192 18.4 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.709 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

Instrument :

MSVOA_N

ClientSampleId :

TP-1

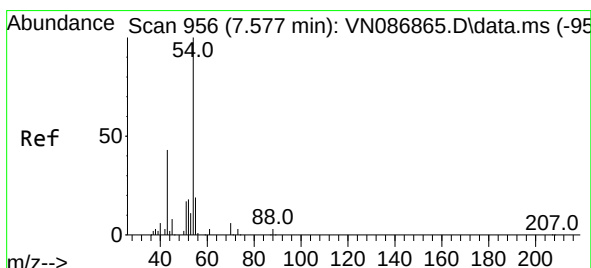
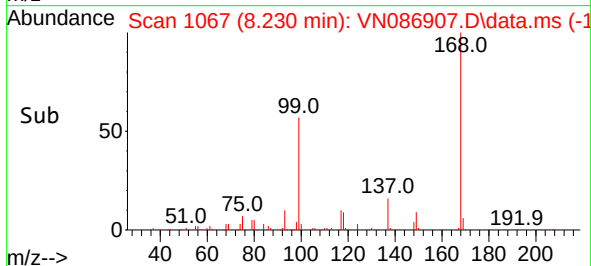
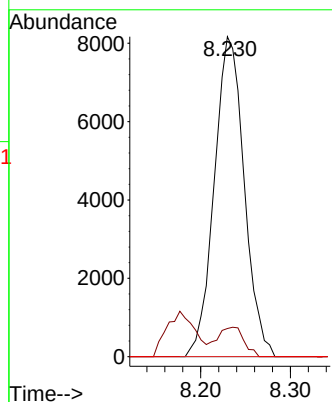
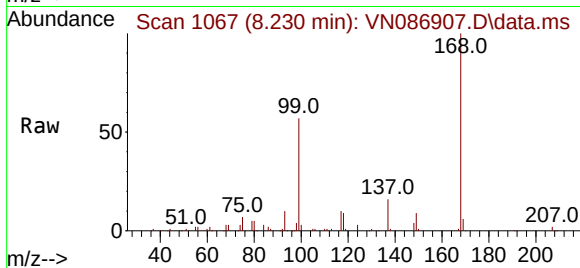
Tgt Ion: 75 Resp: 18913

Ion Ratio Lower Upper

75 100

110 8.3 17.6 52.9#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 4.274 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.000 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

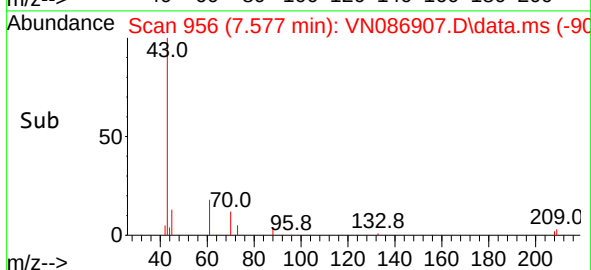
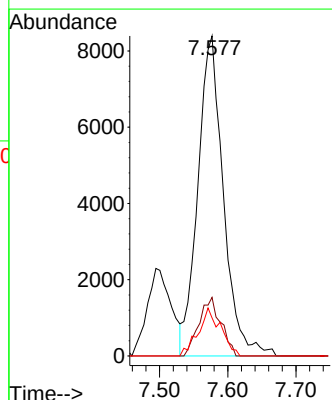
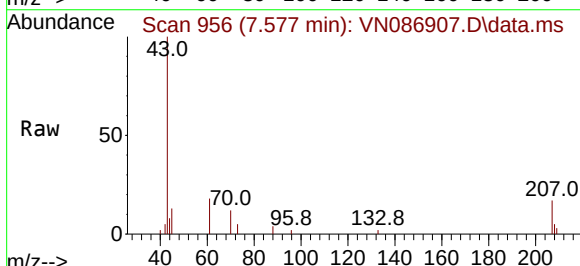
Tgt Ion: 43 Resp: 21854

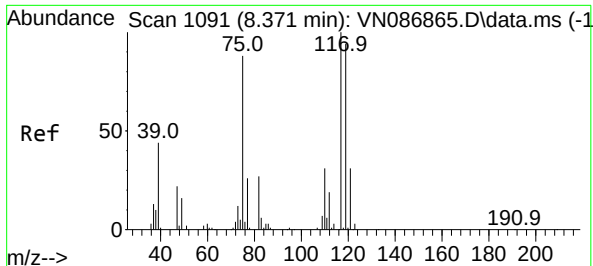
Ion Ratio Lower Upper

43 100

61 15.7 12.1 18.1

70 13.1 9.8 14.6

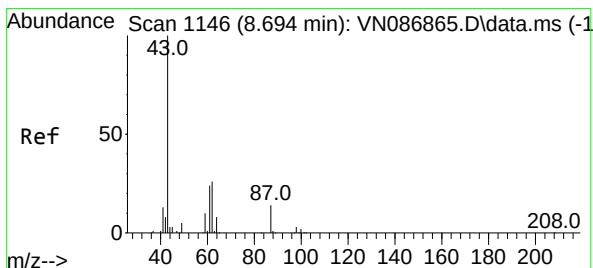
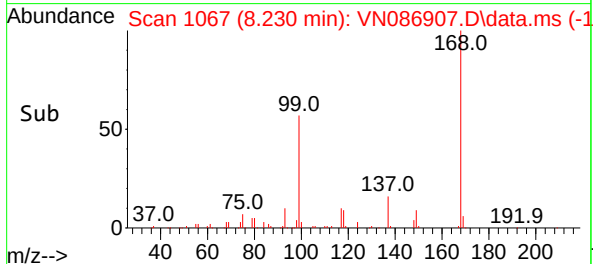
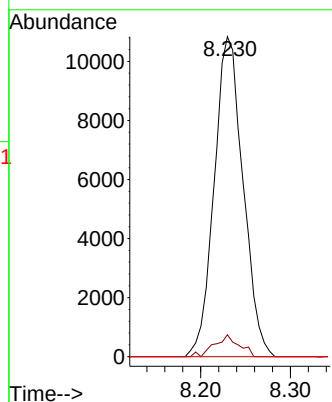
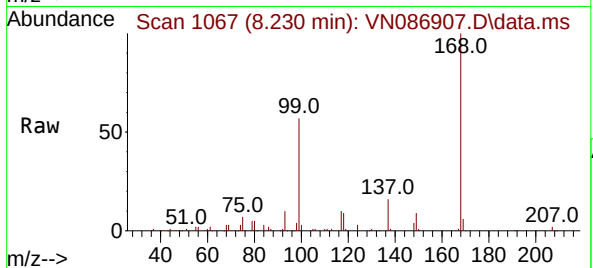




#38
Carbon Tetrachloride
Concen: 6.129 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

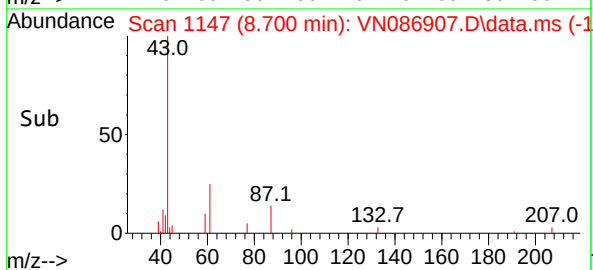
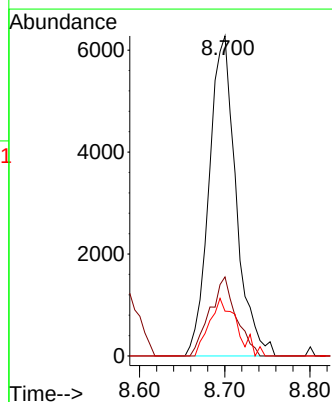
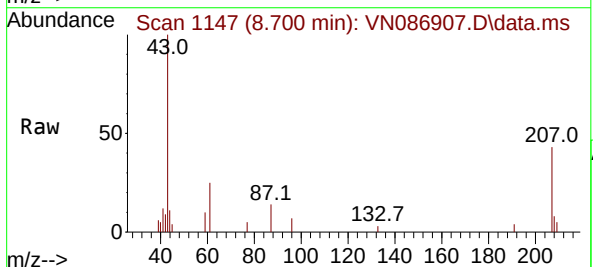
Instrument :
MSVOA_N
ClientSampleId :
TP-1

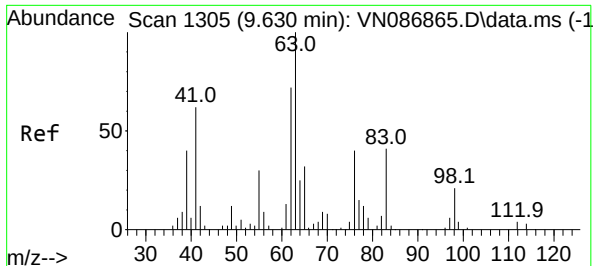
Tgt Ion:117 Resp: 24167
Ion Ratio Lower Upper
117 100
119 6.9 75.0 112.6#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.679 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Tgt Ion: 43 Resp: 13776
Ion Ratio Lower Upper
43 100
61 24.3 22.1 33.1
87 18.2 11.8 17.6#





#45

1,2-Dichloropropane

Concen: 0.585 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

Instrument :

MSVOA_N

ClientSampleId :

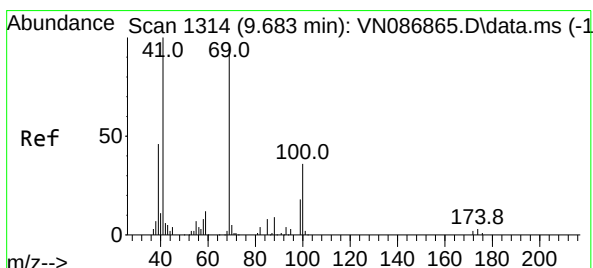
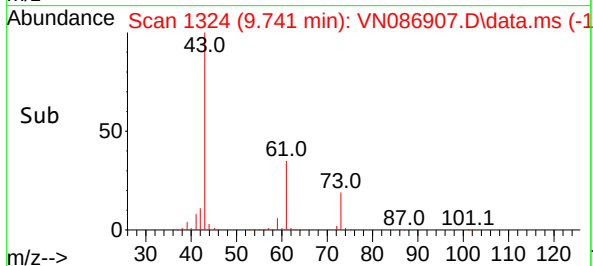
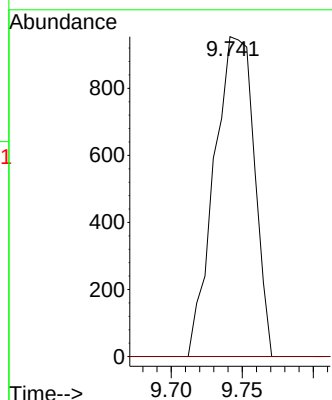
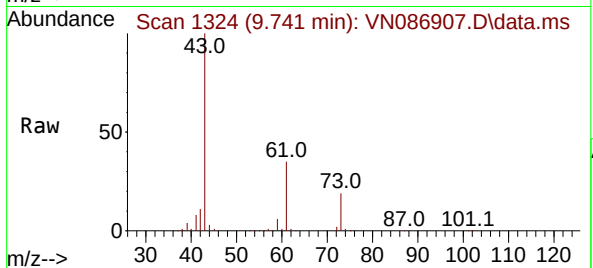
TP-1

Tgt Ion: 63 Resp: 1868

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 27.221 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

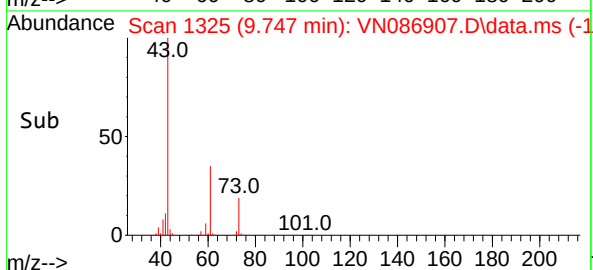
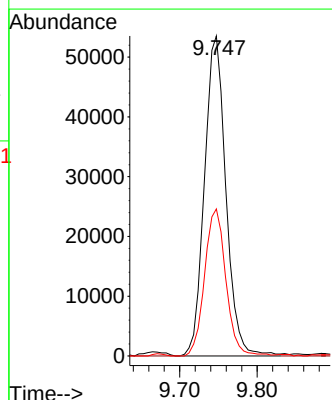
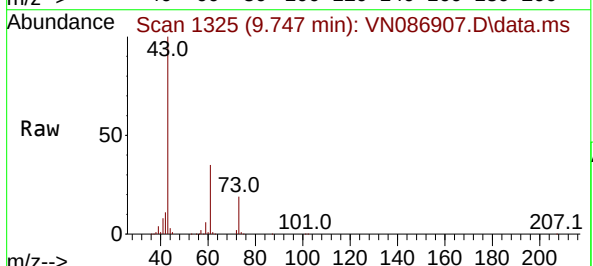
Tgt Ion: 41 Resp: 102814

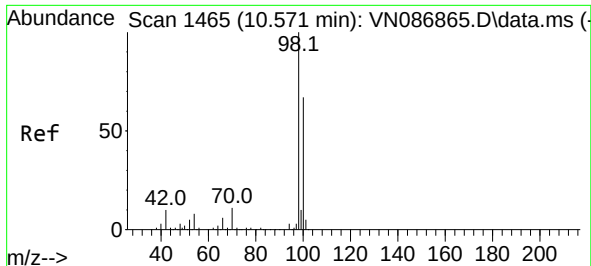
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 45.7 40.2 60.4

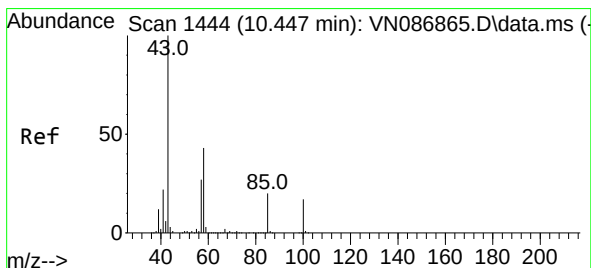
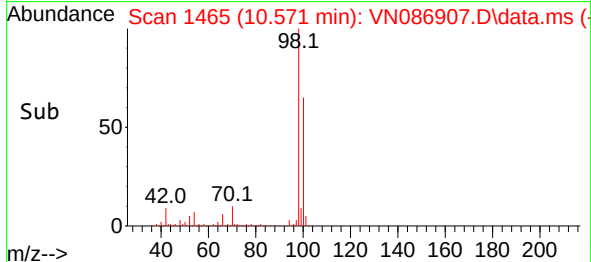
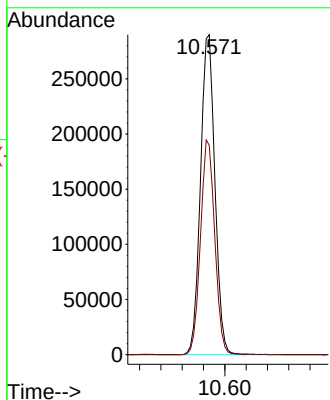
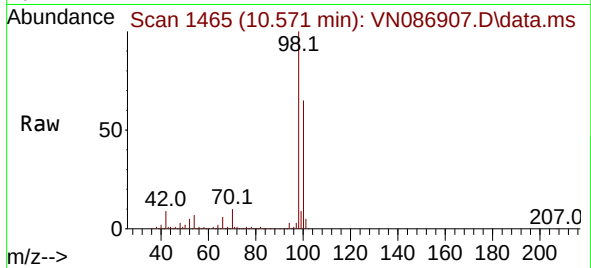




#50
Toluene-d8
Concen: 51.063 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

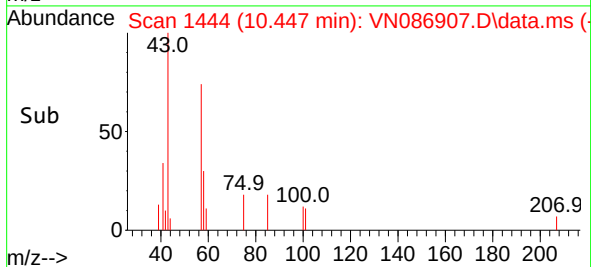
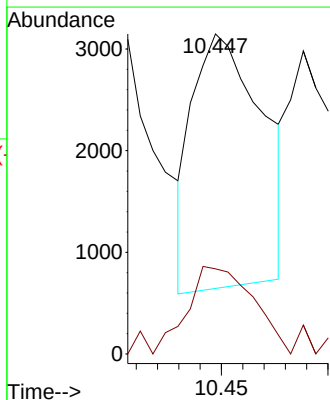
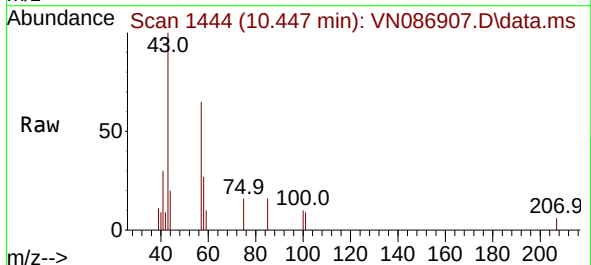
Instrument :
MSVOA_N
ClientSampleId :
TP-1

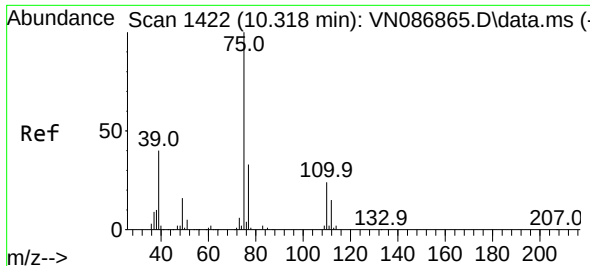
Tgt Ion: 98 Resp: 544847
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 1.140 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Tgt Ion: 43 Resp: 5634
Ion Ratio Lower Upper
43 100
58 34.3 34.2 51.4

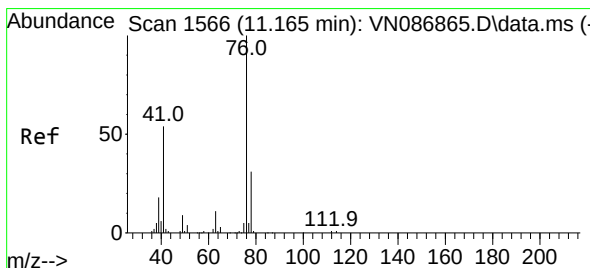
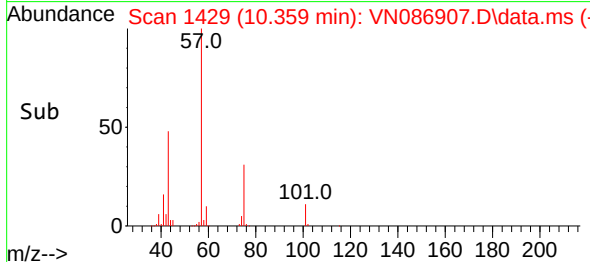
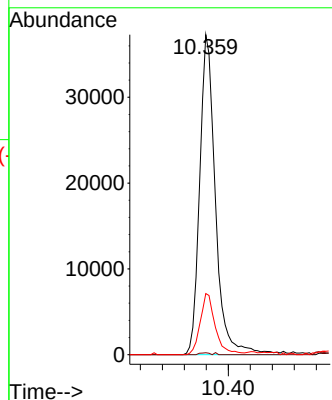
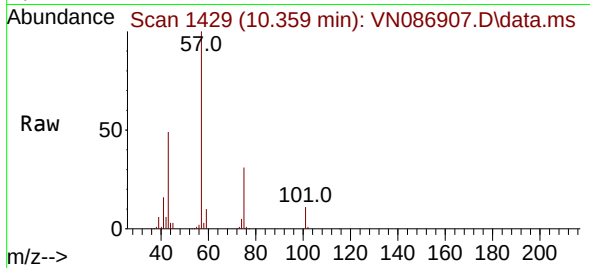




#54
cis-1,3-Dichloropropene
Concen: 14.233 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

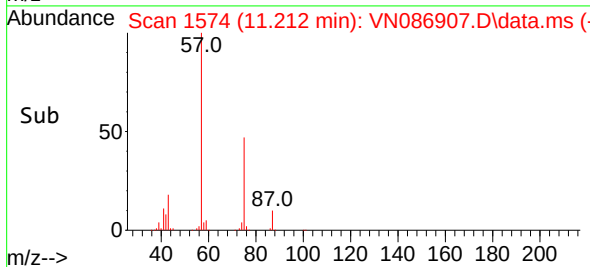
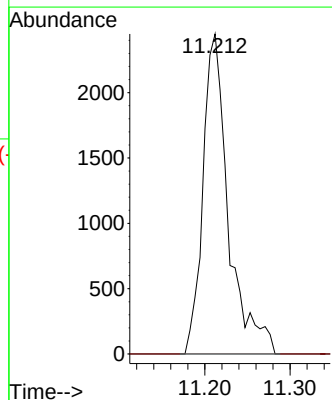
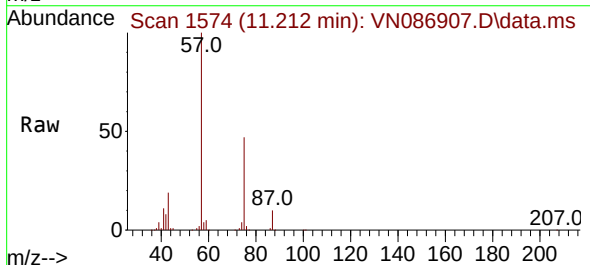
Instrument :
MSVOA_N
ClientSampleId :
TP-1

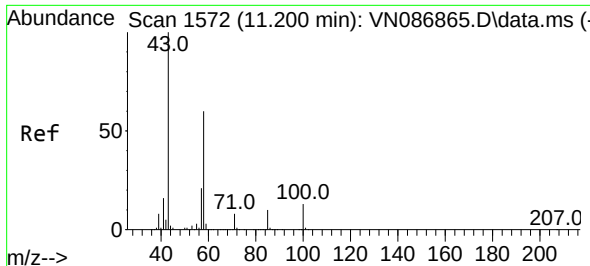
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.6	26.2	39.4#
39	19.1	32.3	48.5#



#57
1,3-Dichloropropane
Concen: 0.948 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.047 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

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

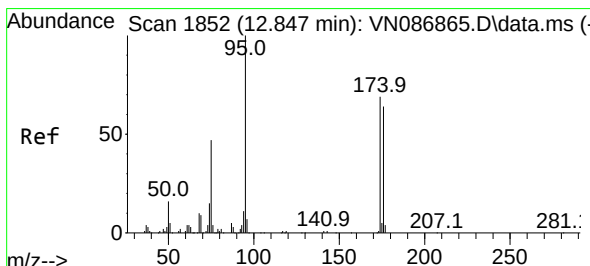
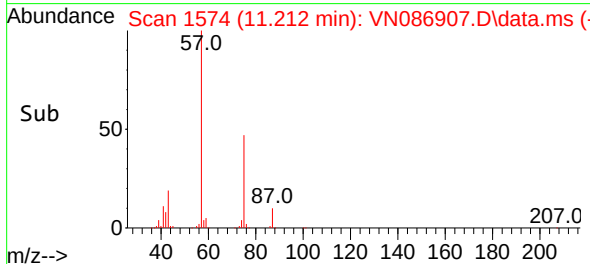
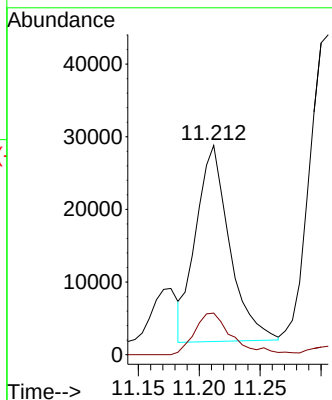
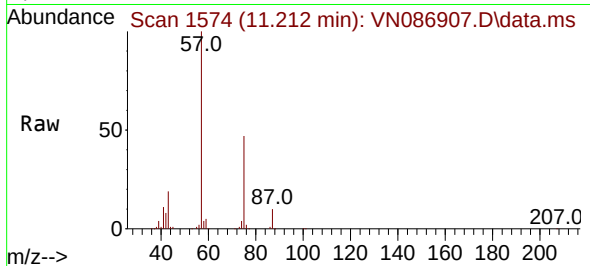




#59
2-Hexanone
Concen: 16.299 ug/l
RT: 11.212 min Scan# 11574
Delta R.T. 0.012 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

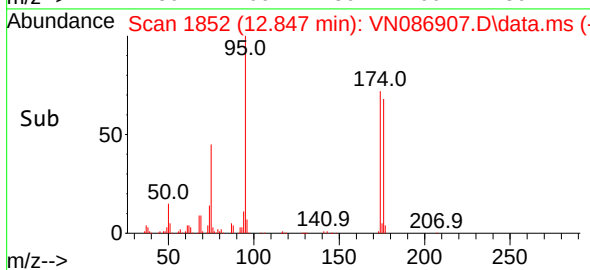
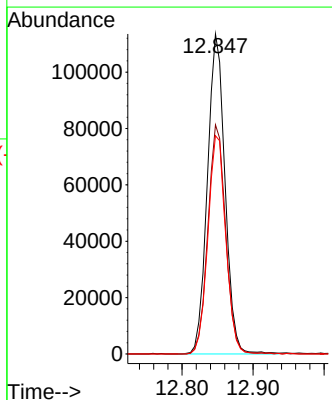
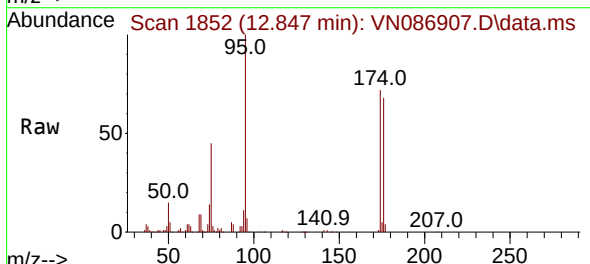
Instrument :
MSVOA_N
ClientSampleId :
TP-1

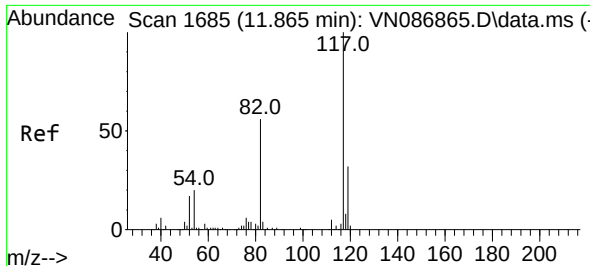
Tgt Ion: 43 Resp: 51865
Ion Ratio Lower Upper
43 100
58 23.9 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 49.264 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Tgt Ion: 95 Resp: 195294
Ion Ratio Lower Upper
95 100
174 72.3 0.0 141.8
176 69.0 0.0 132.6

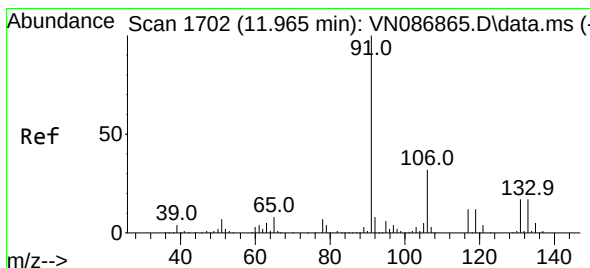
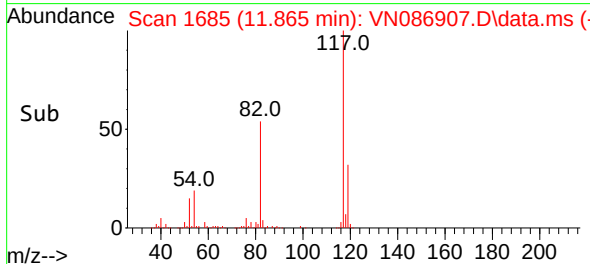
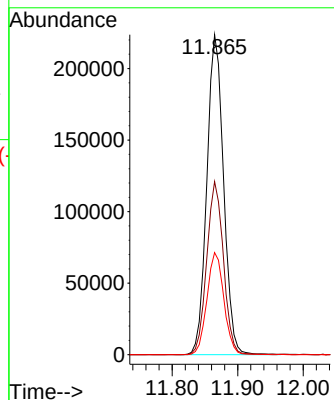
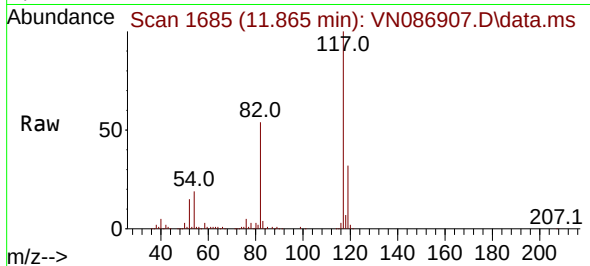




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

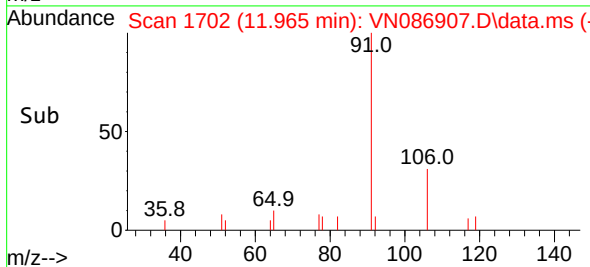
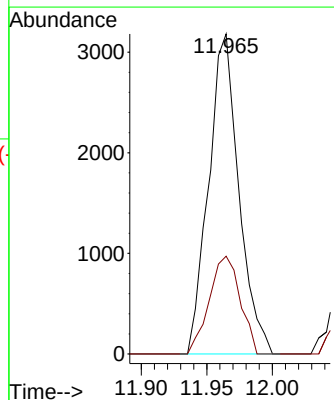
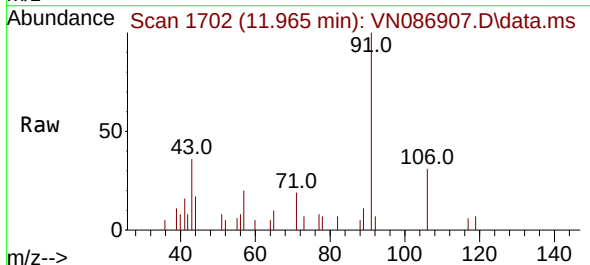
Instrument :
MSVOA_N
ClientSampleId :
TP-1

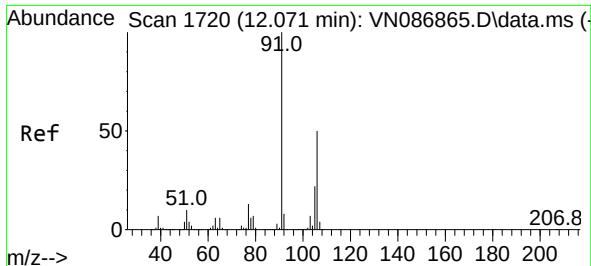
Tgt Ion:117 Resp: 397708
Ion Ratio Lower Upper
117 100
82 54.1 44.6 67.0
119 31.9 25.5 38.3



#67
Ethyl Benzene
Concen: 0.337 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Tgt Ion: 91 Resp: 5092
Ion Ratio Lower Upper
91 100
106 30.6 25.4 38.2

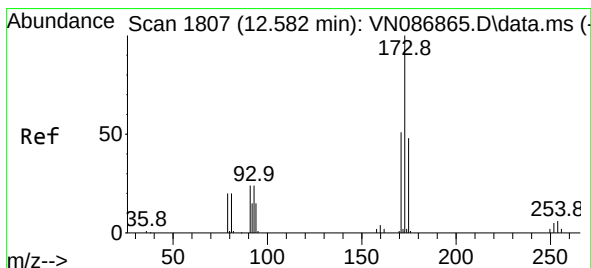
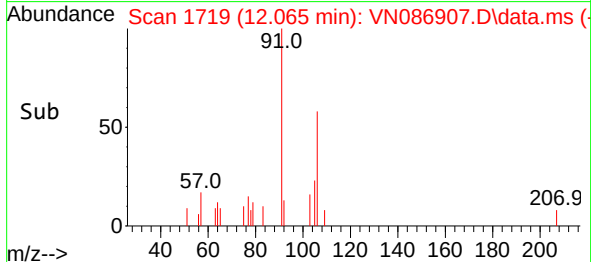
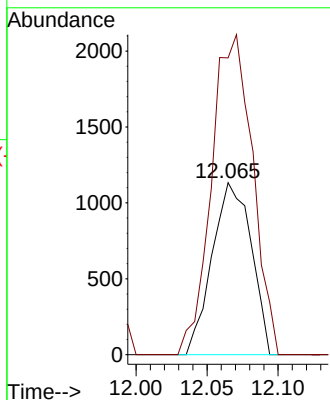
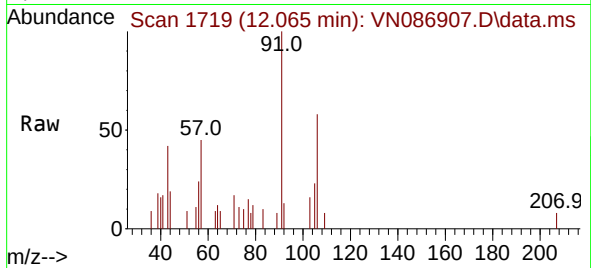




#68
m/p-Xylenes
Concen: 0.376 ug/l
RT: 12.065 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

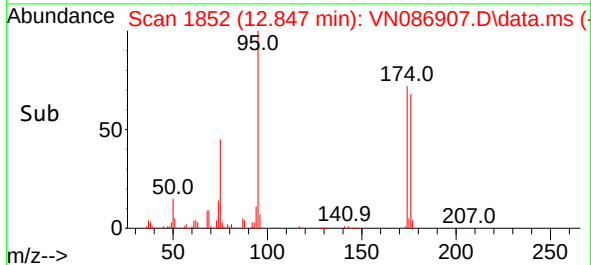
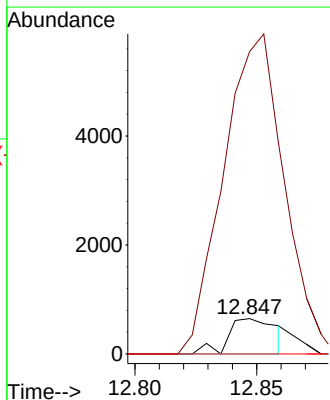
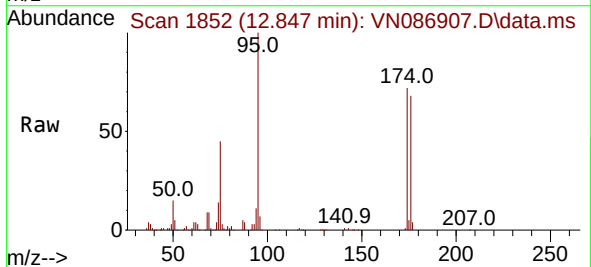
Instrument :
MSVOA_N
ClientSampleId :
TP-1

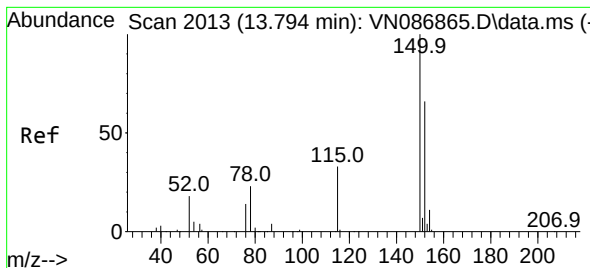
Tgt Ion:106 Resp: 2172
Ion Ratio Lower Upper
106 100
91 195.5 159.4 239.0



#71
Bromoform
Concen: 0.428 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Tgt Ion:173 Resp: 895
Ion Ratio Lower Upper
173 100
175 993.5 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# 20

Delta R.T. -0.006 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

Instrument :

MSVOA_N

ClientSampleId :

TP-1

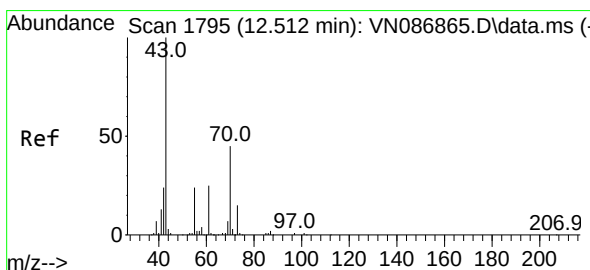
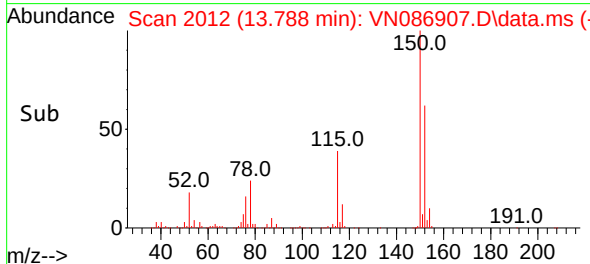
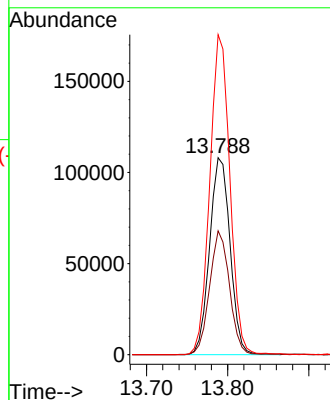
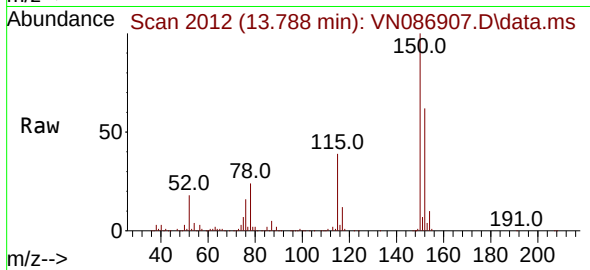
Tgt Ion:152 Resp: 189651

Ion Ratio Lower Upper

152 100

115 61.2 30.1 90.5

150 159.2 0.0 345.0



#74

N-ethyl acetate

Concen: 1.979 ug/l

RT: 12.347 min Scan# 1767

Delta R.T. -0.165 min

Lab File: VN086907.D

Acq: 09 Jun 2025 15:51

Tgt Ion: 43 Resp: 9554

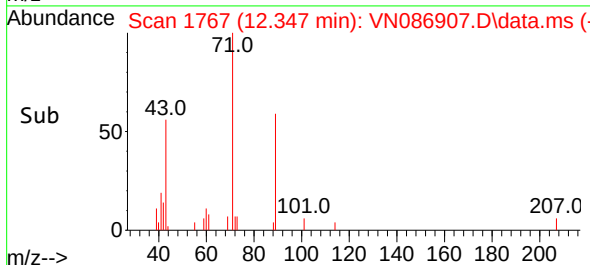
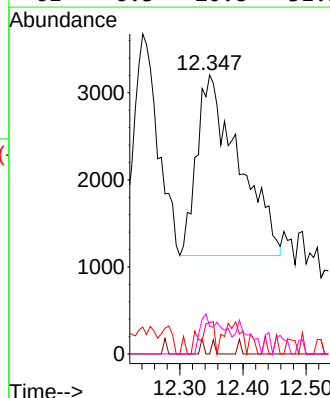
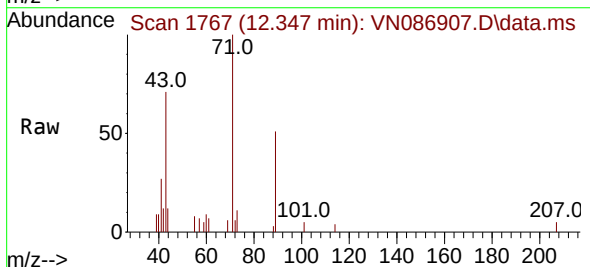
Ion Ratio Lower Upper

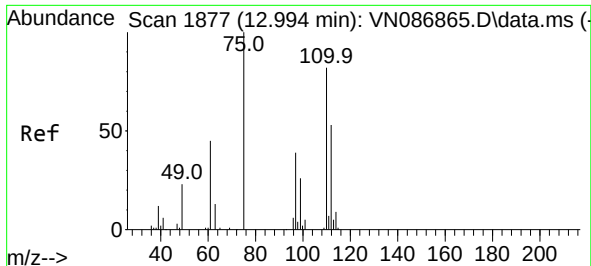
43 100

70 0.6 37.6 56.4#

55 6.1 19.0 28.6#

61 6.3 20.8 31.2#

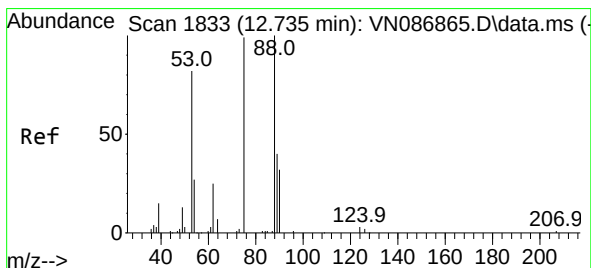
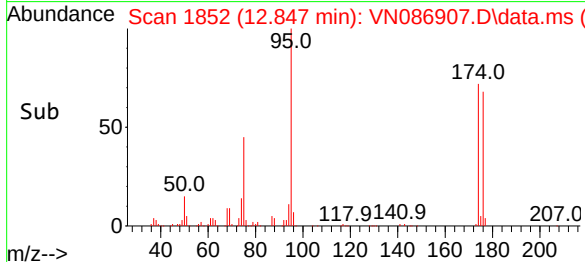
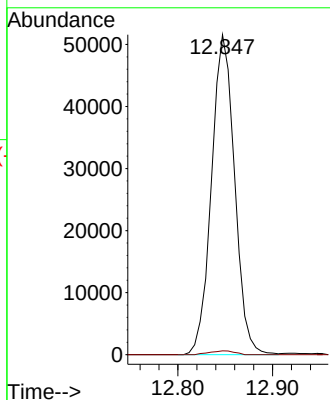
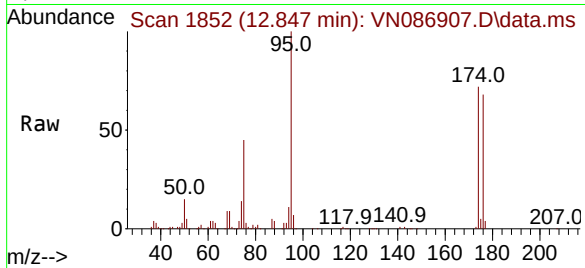




#76
1,2,3-Trichloropropane
Concen: 19.404 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

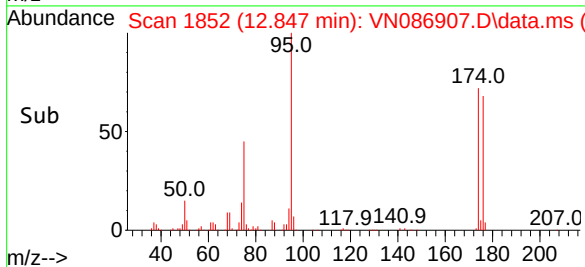
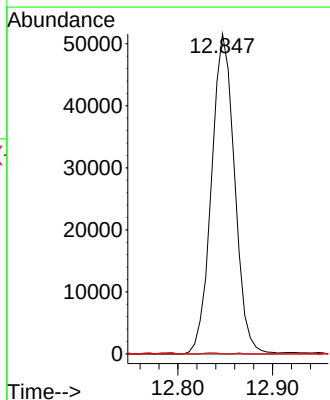
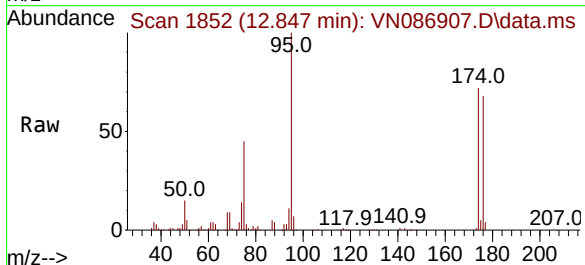
Instrument :
MSVOA_N
ClientSampleId :
TP-1

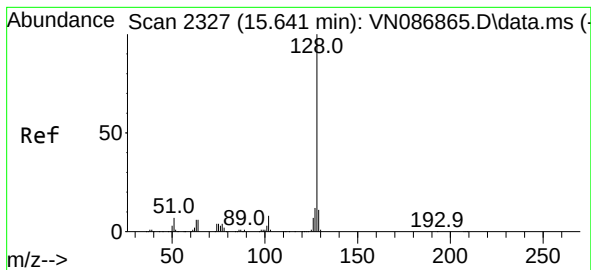
Tgt Ion: 75 Resp: 87476
Ion Ratio Lower Upper
75 100
77 1.3 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 44.668 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

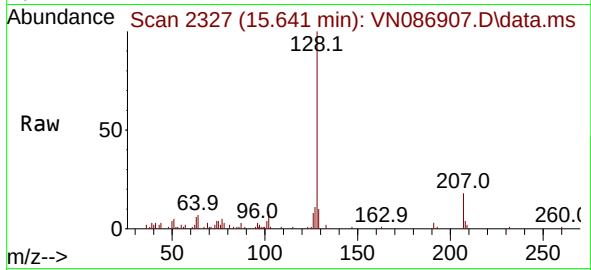
Tgt Ion: 75 Resp: 87476
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.2 36.7 55.1#





#95
Naphthalene
Concen: 2.995 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN086907.D
Acq: 09 Jun 2025 15:51

Instrument :
MSVOA_N
ClientSampleId :
TP-1



Tgt Ion:	128	Resp:	42632
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.2	15.2
129	11.4	8.8	13.2

