

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086855.D
 Acq On : 03 Jun 2025 20:12
 Operator : JC\MD
 Sample : Q2177-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 B-187-SB01

Quant Time: Jun 04 02:06:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

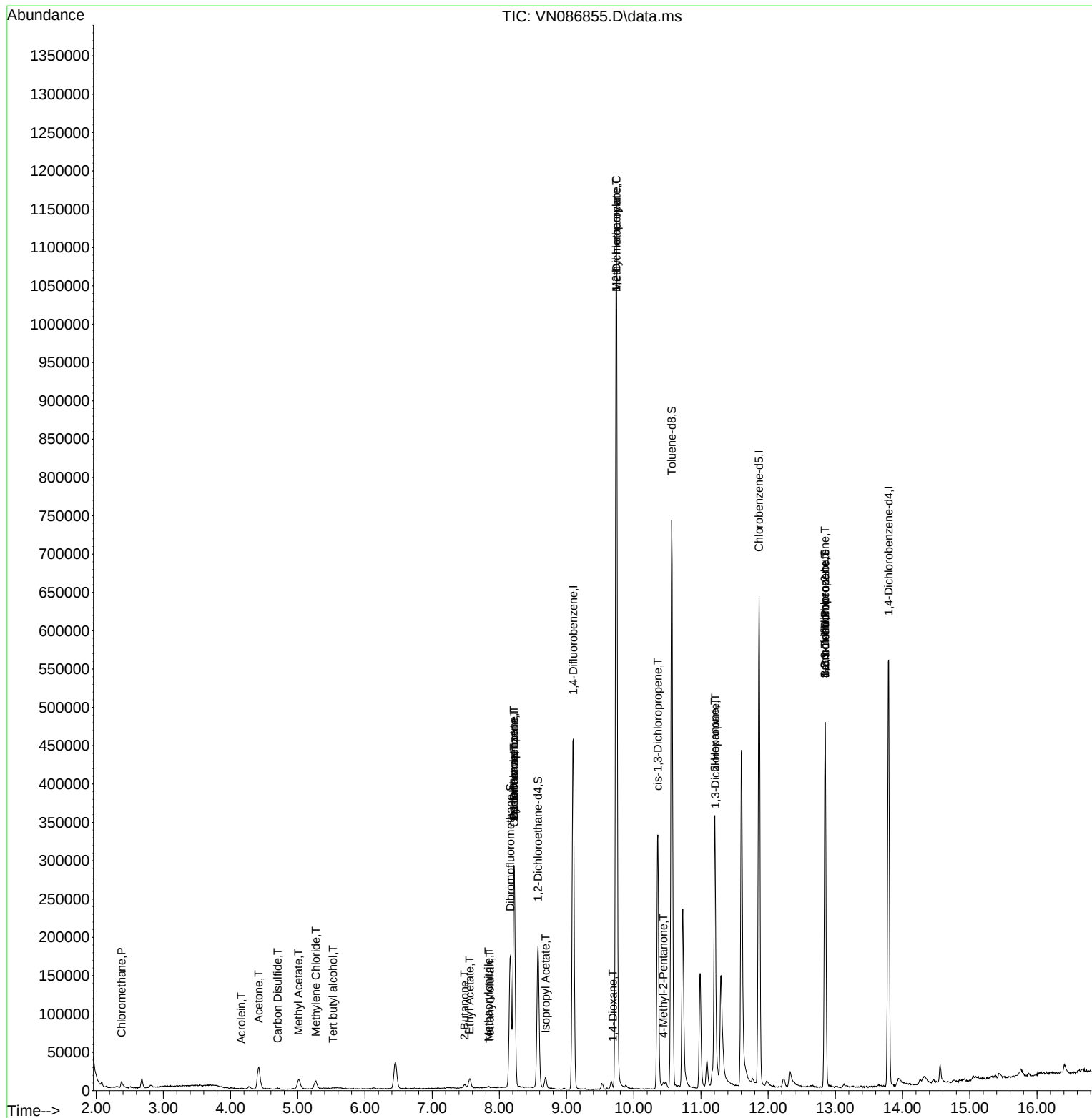
Internal Standards						
1) Pentafluorobenzene	8.218	168	220507	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	428516	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	389120	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	163382	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	152038	49.898	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.800%		
35) Dibromofluoromethane	8.165	113	134789	52.817	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	105.640%		
50) Toluene-d8	10.565	98	539671	51.030	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.060%		
62) 4-Bromofluorobenzene	12.847	95	190230	50.943	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	101.880%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	14471	4.018	ug/l	91
11) Tert butyl alcohol	5.524	59	766	1.380	ug/l #	73
13) Acrolein	4.159	56	313	0.528	ug/l #	45
16) Acetone	4.418	43	55936	49.076	ug/l	98
17) Carbon Disulfide	4.700	76	2086	0.306	ug/l #	75
18) Methyl Acetate	5.012	43	28263	8.860	ug/l	99
20) Methylene Chloride	5.271	84	8493	2.824	ug/l	95
25) 2-Butanone	7.483	43	7695	4.369	ug/l	96
29) Tetrahydrofuran	7.859	42	1217	1.059	ug/l #	60
31) Cyclohexane	8.218	56	4403	0.963	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	17615	4.679	ug/l #	48
37) Ethyl Acetate	7.559	43	18707	4.920	ug/l	98
38) Carbon Tetrachloride	8.224	117	21413	5.773	ug/l #	15
41) Methacrylonitrile	7.841	41	433	0.211	ug/l #	21
43) Isopropyl Acetate	8.688	43	15645	2.052	ug/l	94
45) 1,2-Dichloropropane	9.741	63	1636	0.561	ug/l #	42
48) Methyl methacrylate	9.741	41	98515	33.351	ug/l #	35
49) 1,4-Dioxane	9.688	88	399	6.379	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	5445	1.416	ug/l	97
54) cis-1,3-Dichloropropene	10.359	75	71486	15.250	ug/l #	58
57) 1,3-Dichloropropane	11.212	76	4210	0.858	ug/l #	42
59) 2-Hexanone	11.206	43	58500	20.839	ug/l #	49
71) Bromoform	12.847	173	890	0.454	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	90581	24.514	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	90581	61.866	ug/l #	15

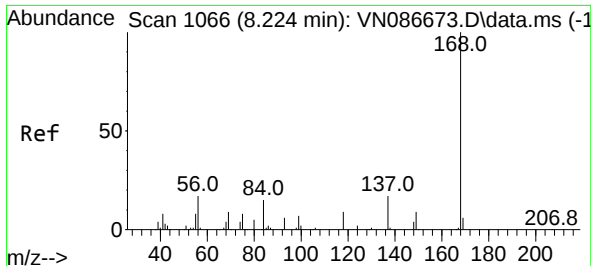
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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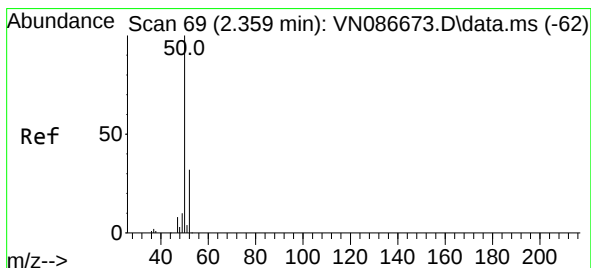
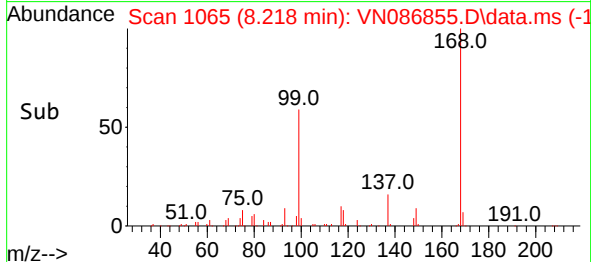
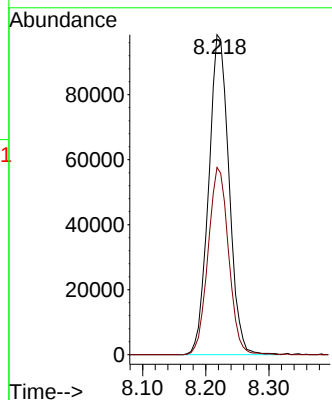
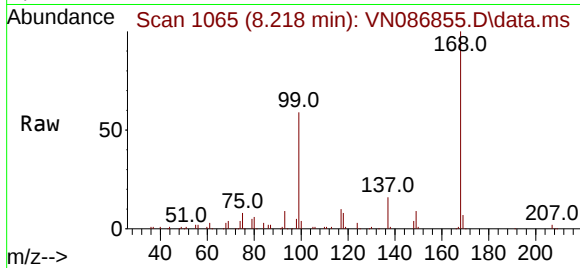




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

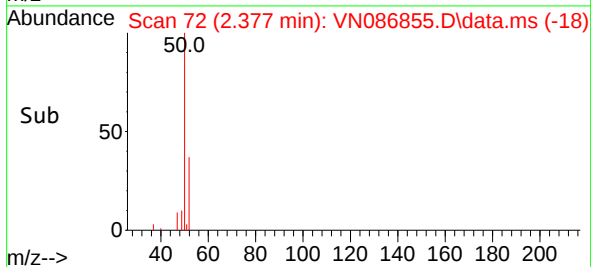
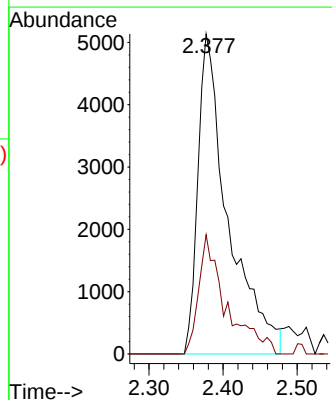
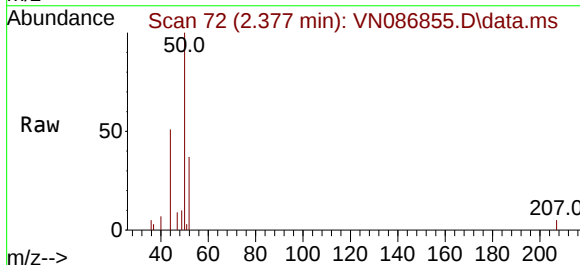
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

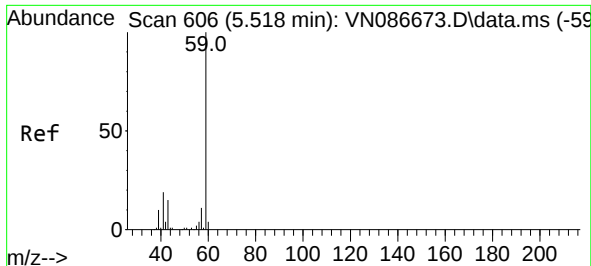
Tgt Ion:168 Resp: 220507
Ion Ratio Lower Upper
168 100
99 58.5 47.0 70.4



#3
Chloromethane
Concen: 4.018 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 50 Resp: 14471
Ion Ratio Lower Upper
50 100
52 37.3 25.9 38.9

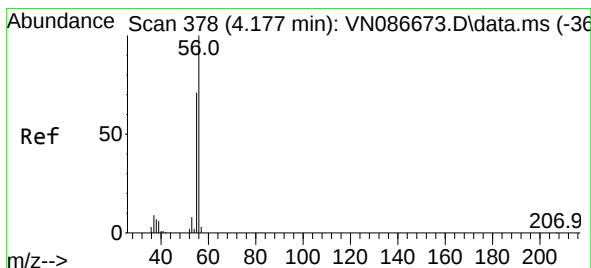
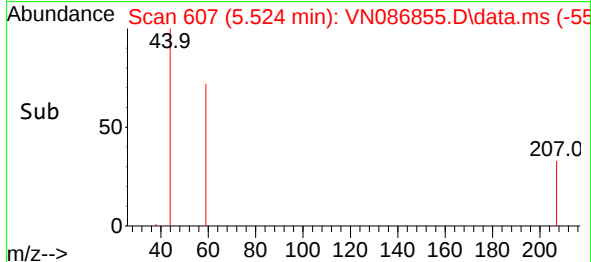
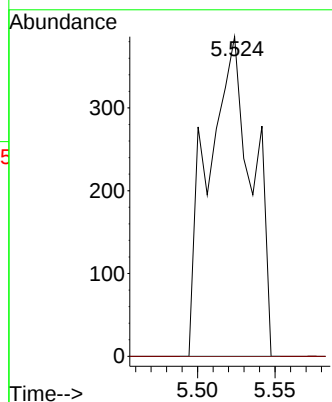
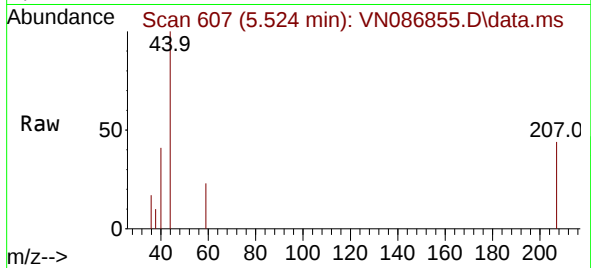




#11
Tert butyl alcohol
Concen: 1.380 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

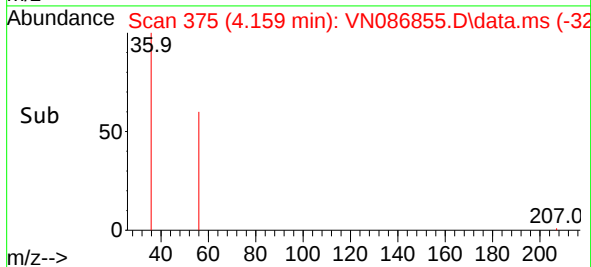
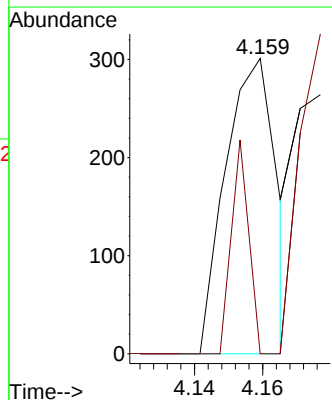
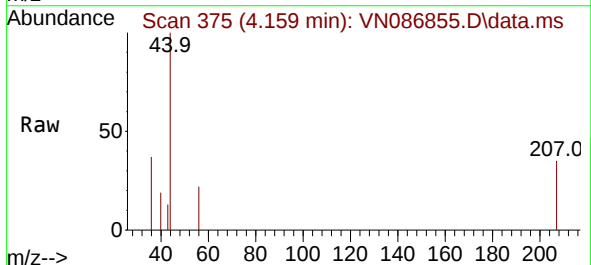
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

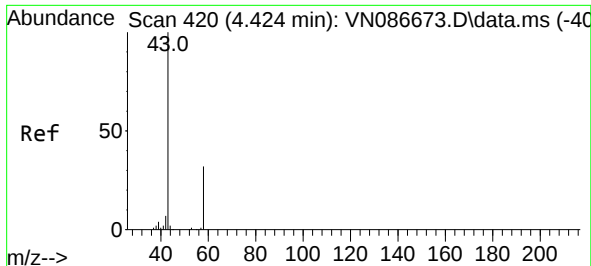
Tgt Ion: 59 Resp: 766
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.528 ug/l
RT: 4.159 min Scan# 375
Delta R.T. -0.018 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 56 Resp: 313
Ion Ratio Lower Upper
56 100
55 24.6 55.7 83.5#





#16

Acetone

Concen: 49.076 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.006 min

Lab File: VN086855.D

Acq: 03 Jun 2025 20:12

Instrument :

MSVOA_N

ClientSampleId :

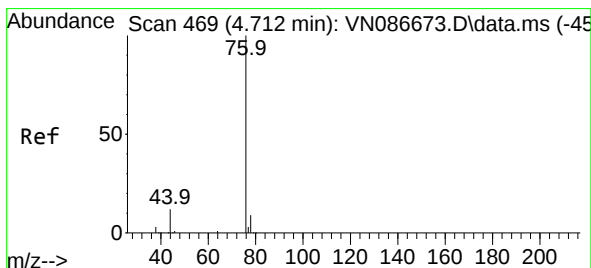
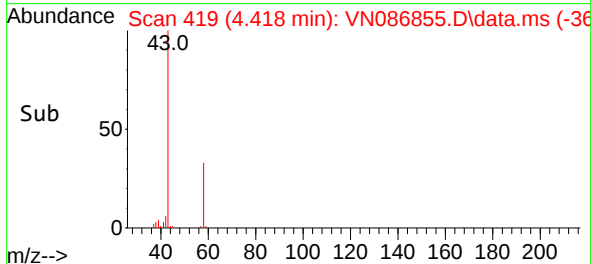
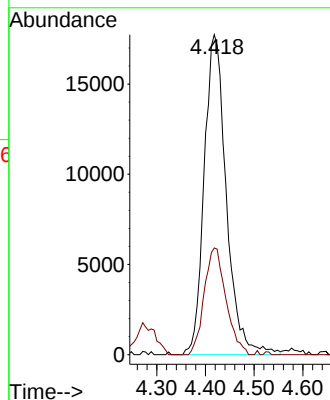
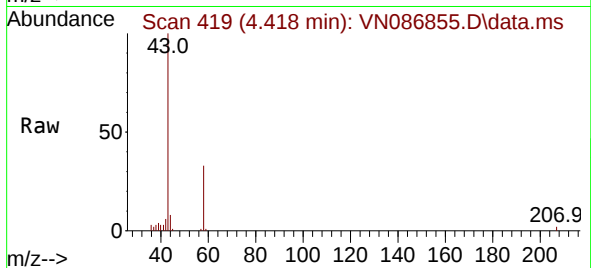
B-187-SB01

Tgt Ion: 43 Resp: 55936

Ion Ratio Lower Upper

43 100

58 33.4 25.8 38.6



#17

Carbon Disulfide

Concen: 0.306 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.012 min

Lab File: VN086855.D

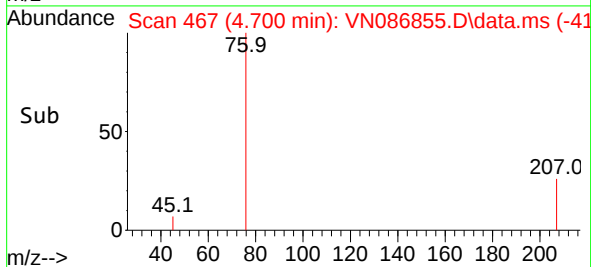
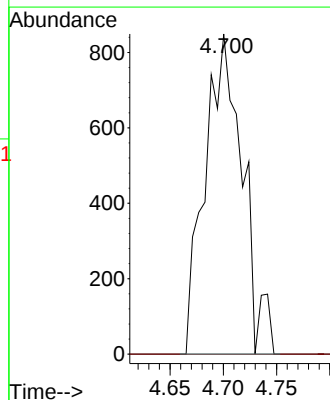
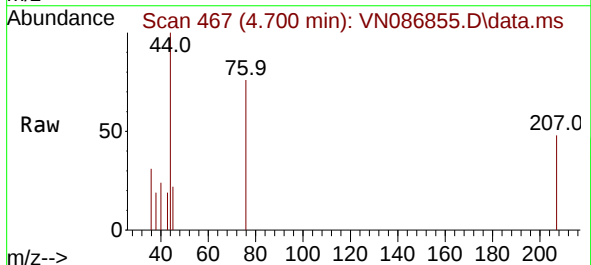
Acq: 03 Jun 2025 20:12

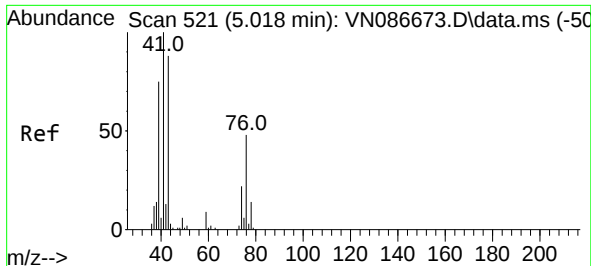
Tgt Ion: 76 Resp: 2086

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

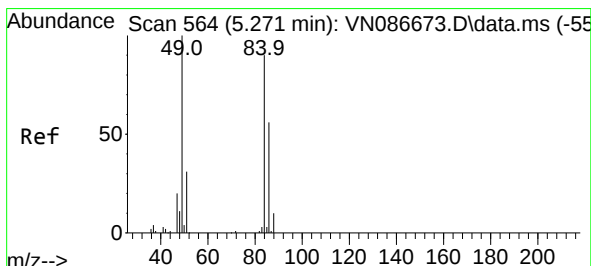
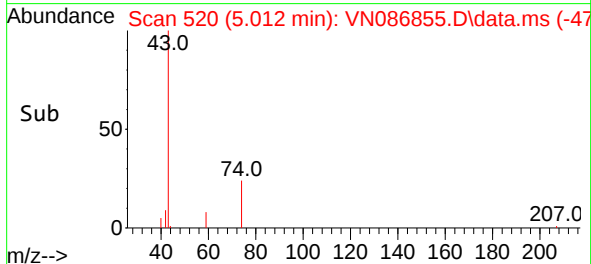
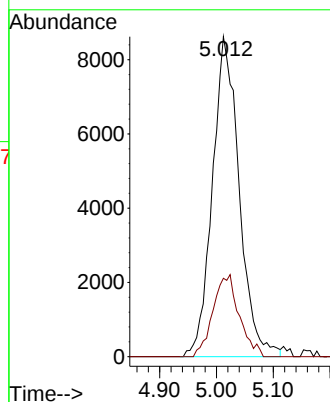
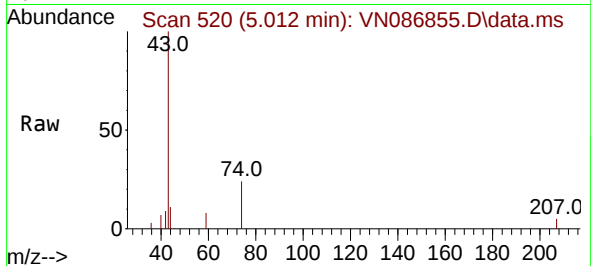




#18
Methyl Acetate
Concen: 8.860 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

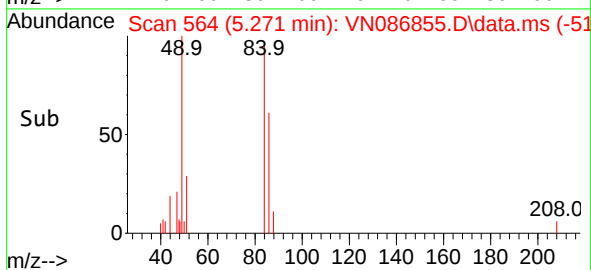
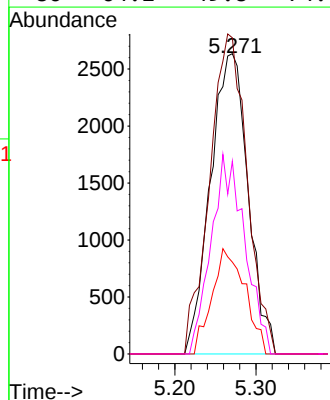
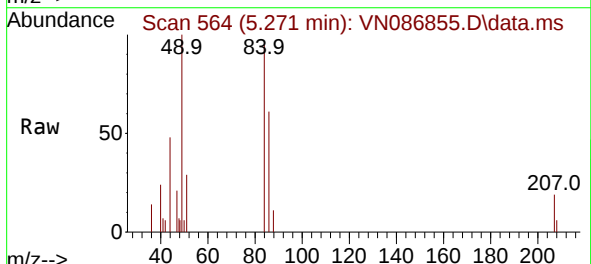
Instrument :
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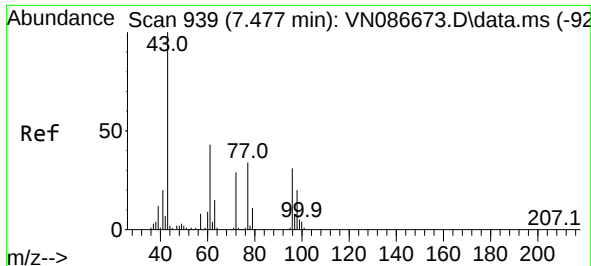
Tgt Ion: 43 Resp: 28263
Ion Ratio Lower Upper
43 100
74 25.0 20.5 30.7



#20
Methylene Chloride
Concen: 2.824 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 84 Resp: 8493
Ion Ratio Lower Upper
84 100
49 105.2 88.8 133.2
51 30.6 27.8 41.6
86 64.2 49.8 74.6

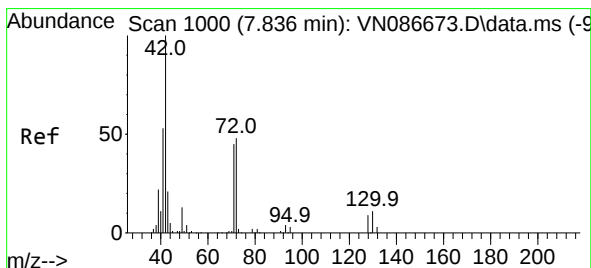
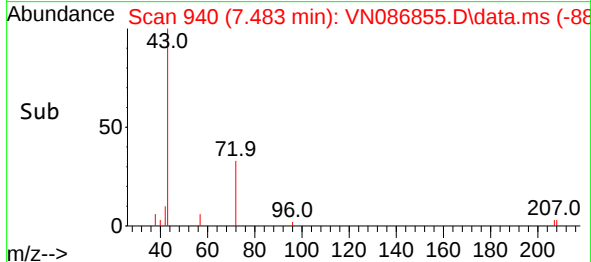
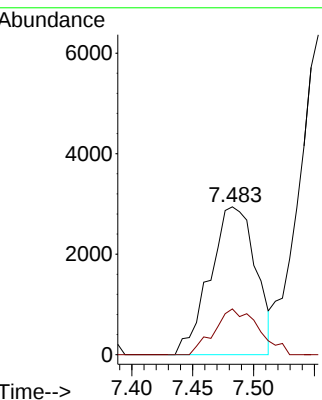
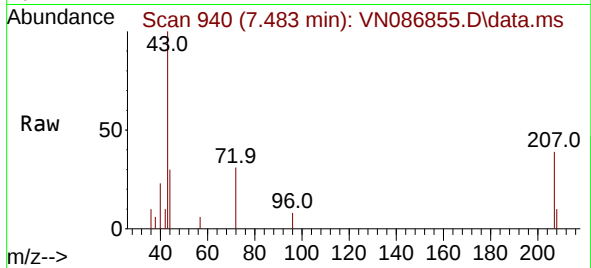




#25
2-Butanone
Concen: 4.369 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

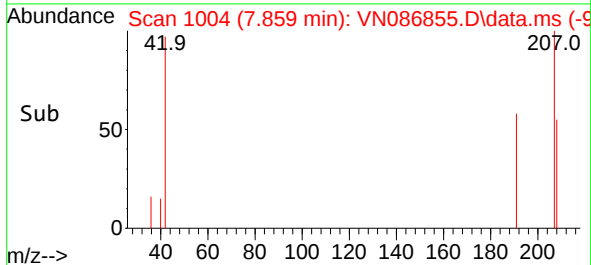
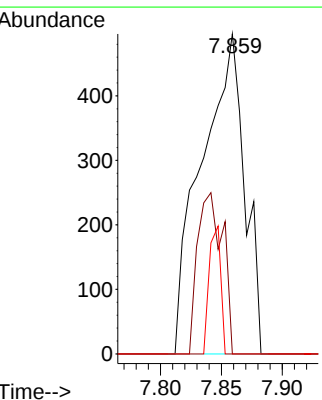
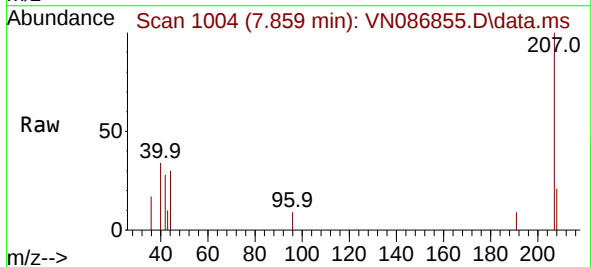
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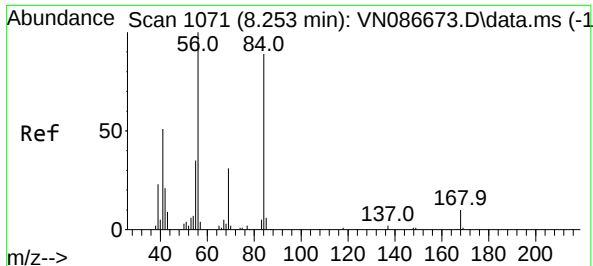
Tgt Ion: 43 Resp: 7695
Ion Ratio Lower Upper
43 100
72 31.0 23.1 34.7



#29
Tetrahydrofuran
Concen: 1.059 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.023 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 42 Resp: 1217
Ion Ratio Lower Upper
42 100
72 29.5 38.7 58.1#
71 10.8 36.2 54.4#

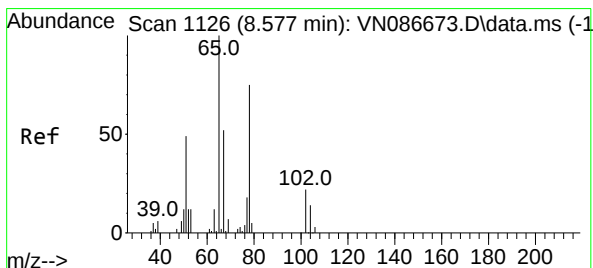
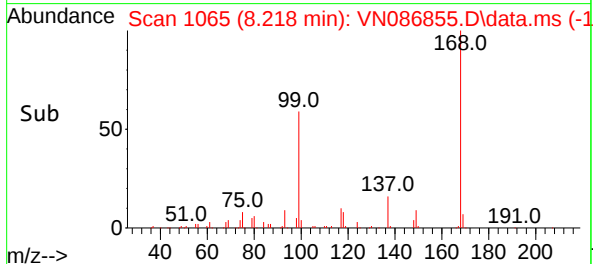
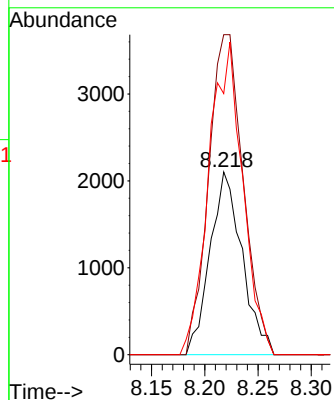
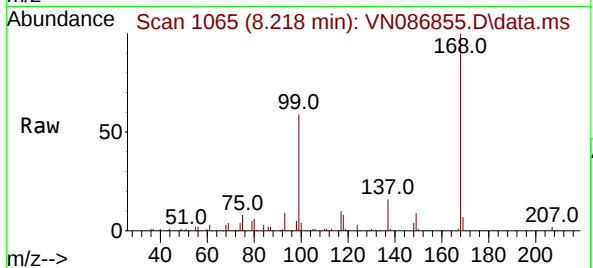




#31
Cyclohexane
Concen: 0.963 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

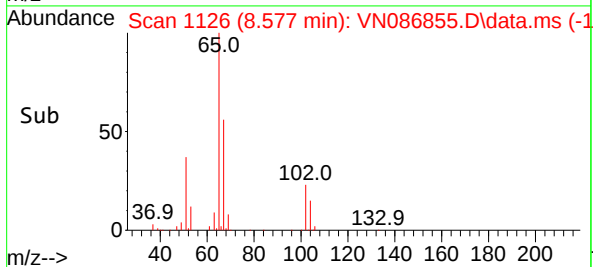
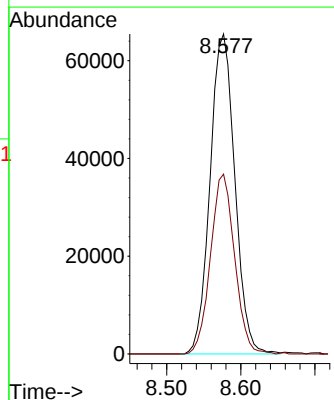
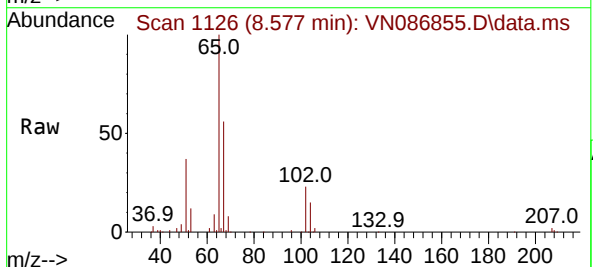
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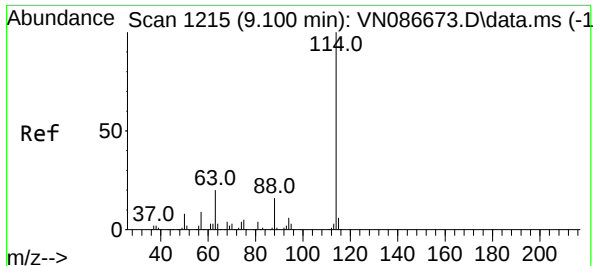
Tgt Ion: 56 Resp: 4403
Ion Ratio Lower Upper
56 100
69 175.2 25.0 37.6#
84 142.9 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 49.898 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 65 Resp: 152038
Ion Ratio Lower Upper
65 100
67 54.6 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086855.D

Acq: 03 Jun 2025 20:12

Instrument :

MSVOA_N

ClientSampleId :

B-187-SB01

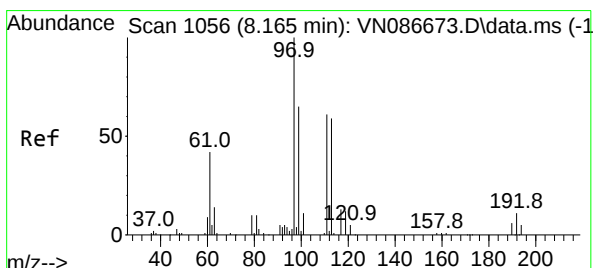
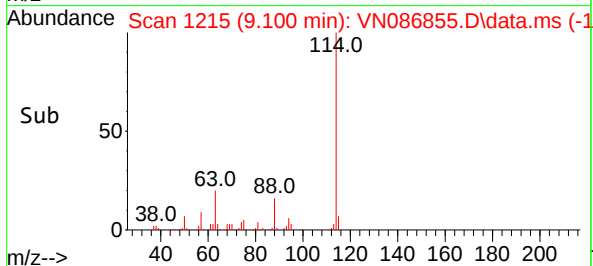
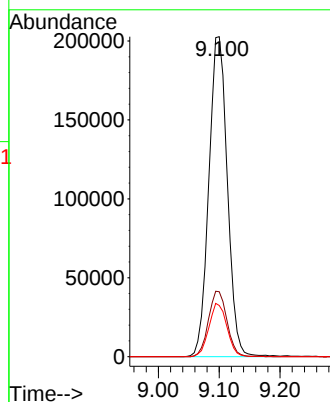
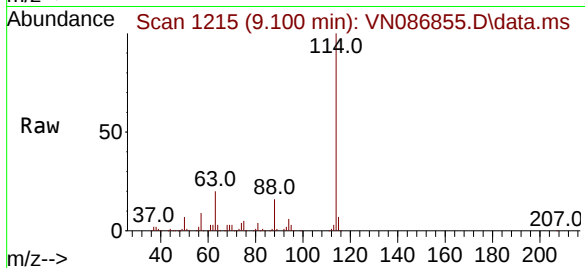
Tgt Ion:114 Resp: 428516

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.2

88 16.0 0.0 31.2



#35

Dibromofluoromethane

Concen: 52.817 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086855.D

Acq: 03 Jun 2025 20:12

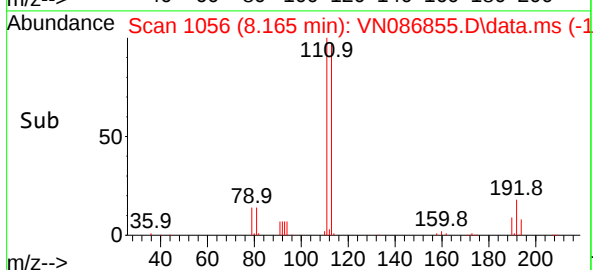
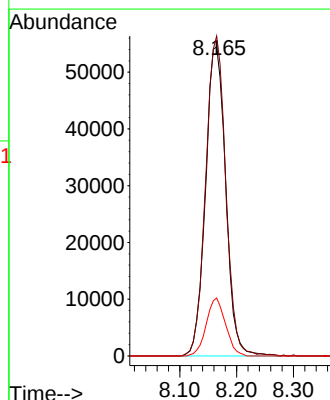
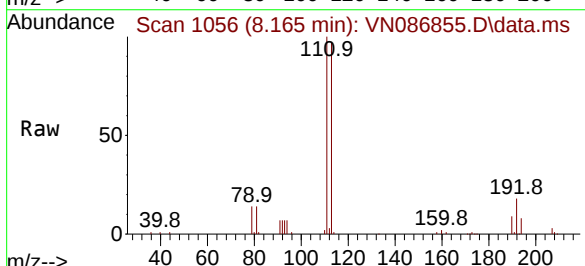
Tgt Ion:113 Resp: 134789

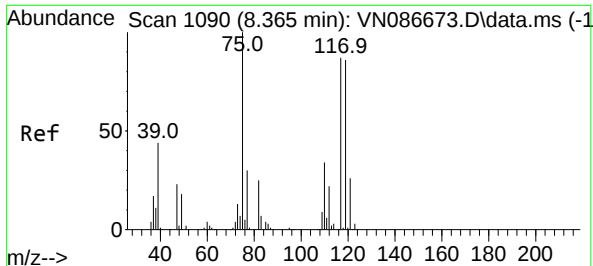
Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

192 17.8 13.8 20.8

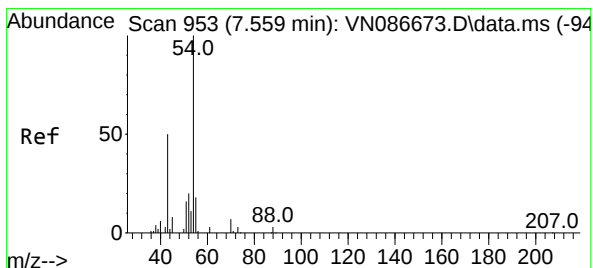
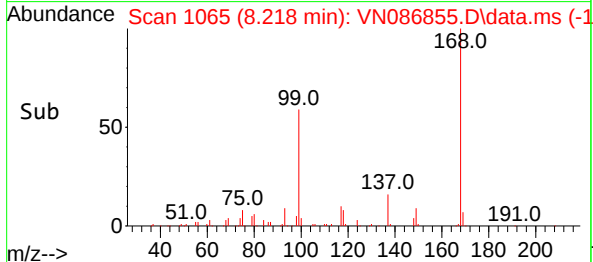
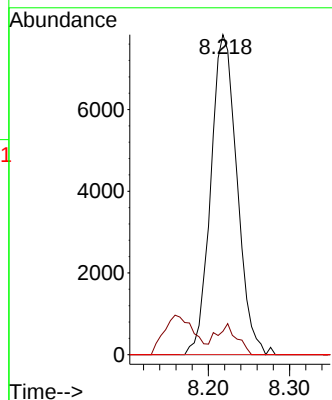
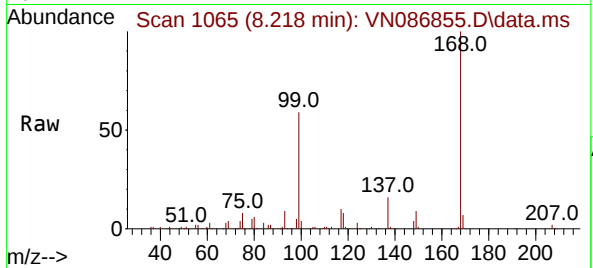




#36
1,1-Dichloropropene
Concen: 4.679 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

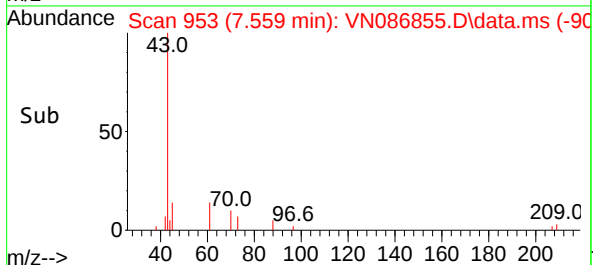
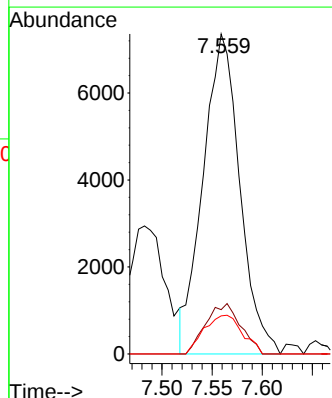
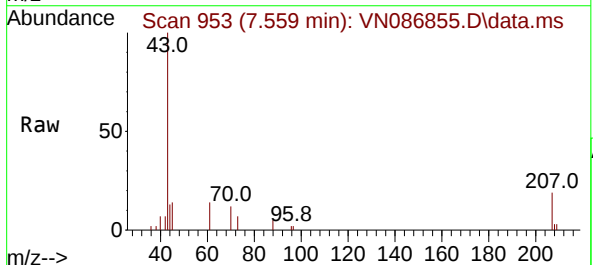
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

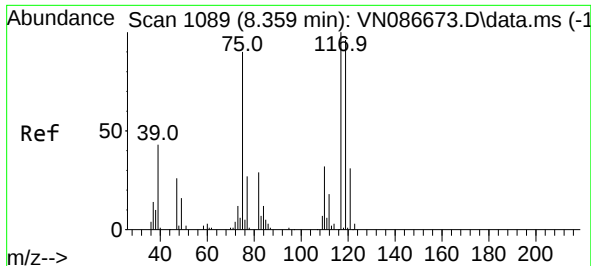
Tgt Ion: 75 Resp: 17615
Ion Ratio Lower Upper
75 100
110 7.4 17.5 52.5#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 4.920 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

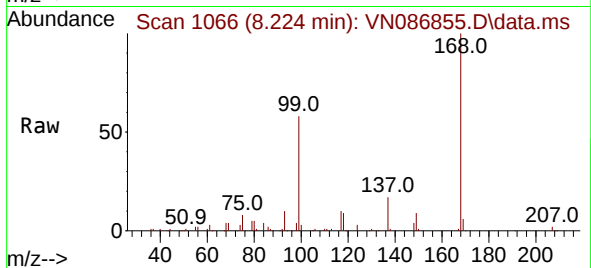
Tgt Ion: 43 Resp: 18707
Ion Ratio Lower Upper
43 100
61 15.0 11.6 17.4
70 12.6 9.4 14.0



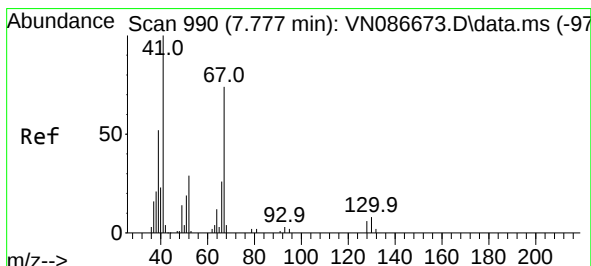
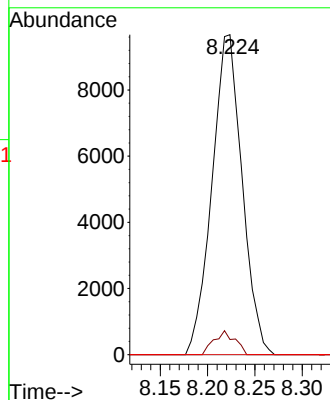
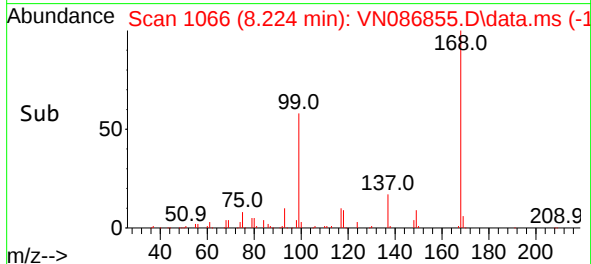


#38
Carbon Tetrachloride
Concen: 5.773 ug/l
RT: 8.224 min Scan# 1001
Delta R.T. -0.135 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

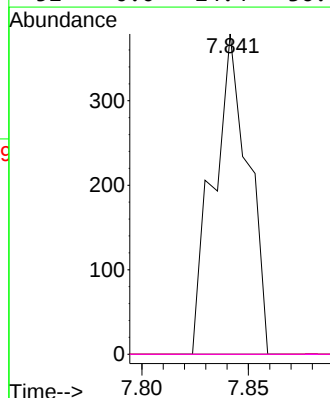
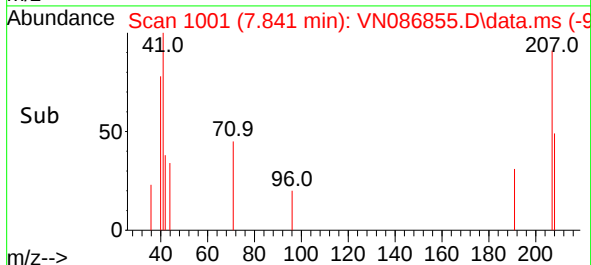
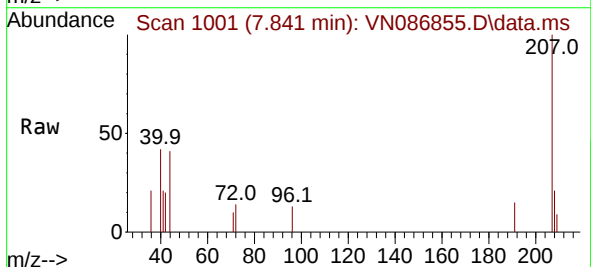


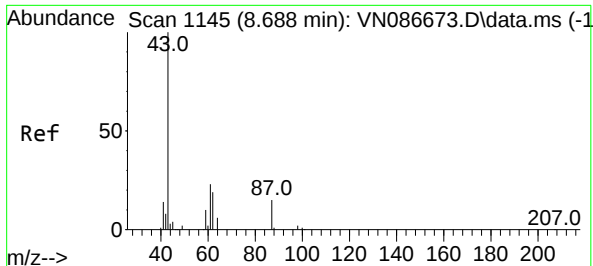
Tgt Ion:117 Resp: 21413
Ion Ratio Lower Upper
117 100
119 4.7 77.0 115.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.211 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.065 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 41 Resp: 433
Ion Ratio Lower Upper
41 100
39 0.0 44.9 67.3#
67 0.0 63.4 95.0#
52 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 2.052 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN086855.D

Acq: 03 Jun 2025 20:12

Instrument :

MSVOA_N

ClientSampleId :

B-187-SB01

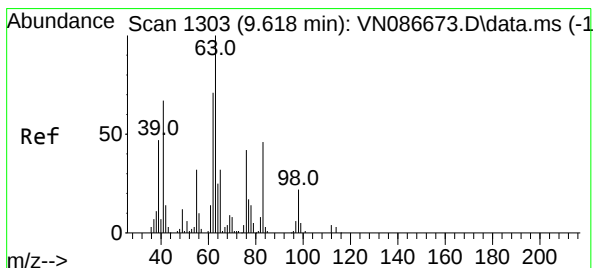
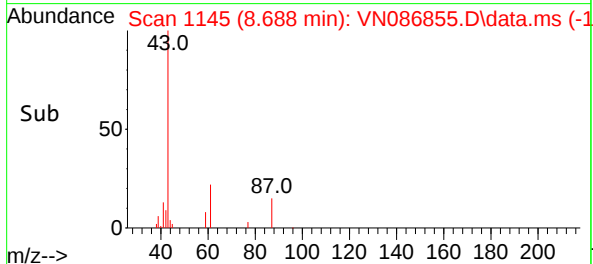
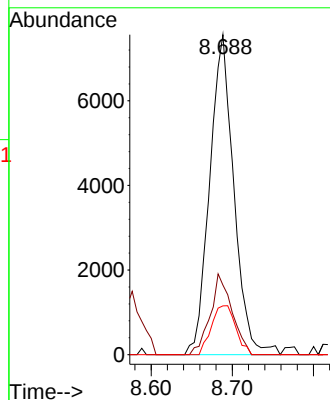
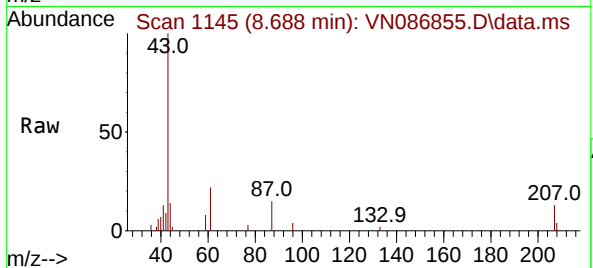
Tgt Ion: 43 Resp: 15645

Ion Ratio Lower Upper

43 100

61 22.8 21.4 32.2

87 15.4 11.1 16.7



#45

1,2-Dichloropropane

Concen: 0.561 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086855.D

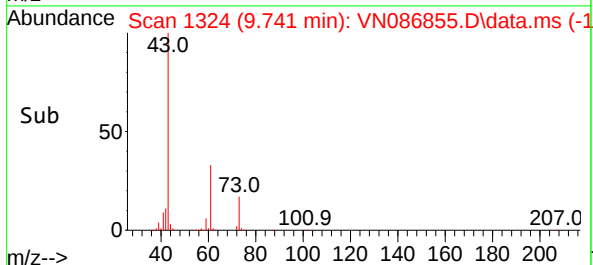
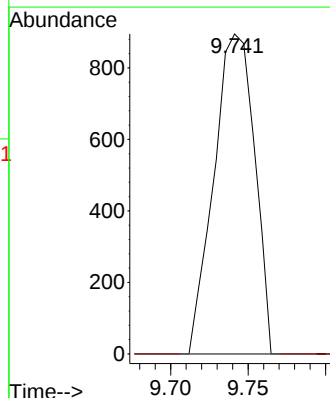
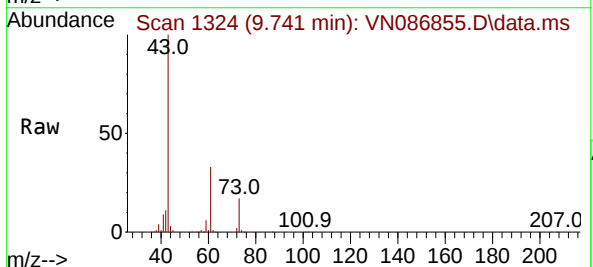
Acq: 03 Jun 2025 20:12

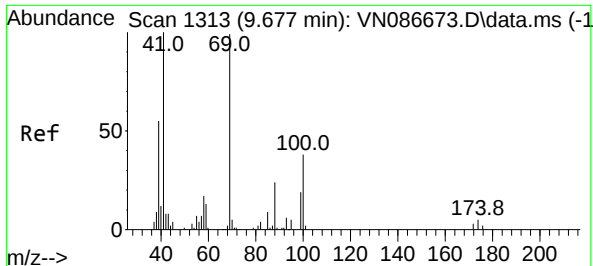
Tgt Ion: 63 Resp: 1636

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#





#48

Methyl methacrylate

Concen: 33.351 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.065 min

Lab File: VN086855.D

Acq: 03 Jun 2025 20:12

Instrument :

MSVOA_N

ClientSampleId :

B-187-SB01

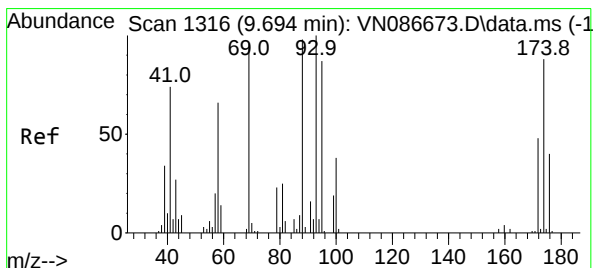
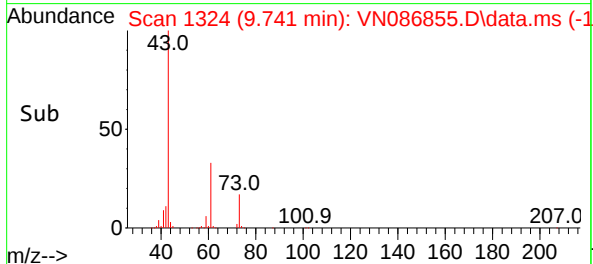
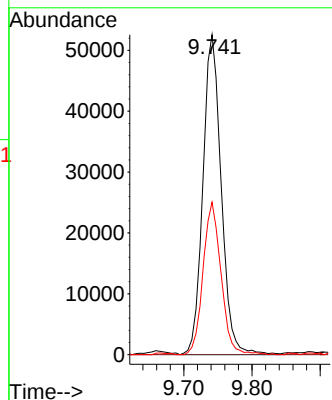
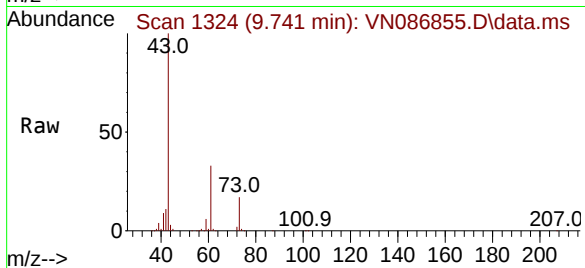
Tgt Ion: 41 Resp: 98515

Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 46.8 44.1 66.1



#49

1,4-Dioxane

Concen: 6.379 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086855.D

Acq: 03 Jun 2025 20:12

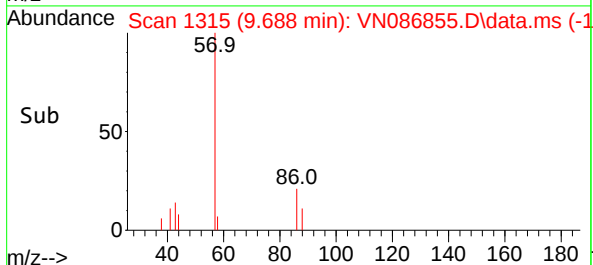
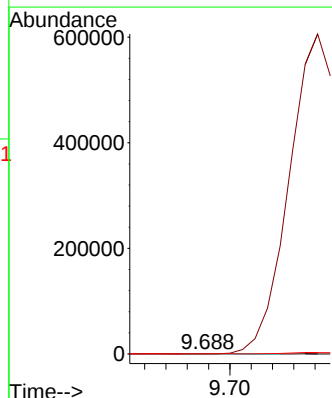
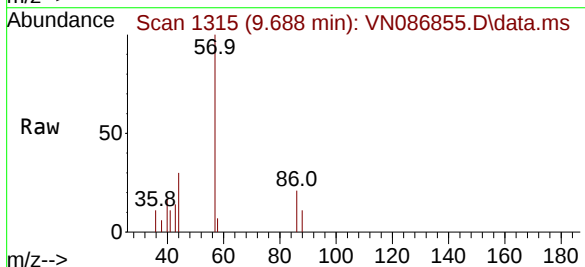
Tgt Ion: 88 Resp: 399

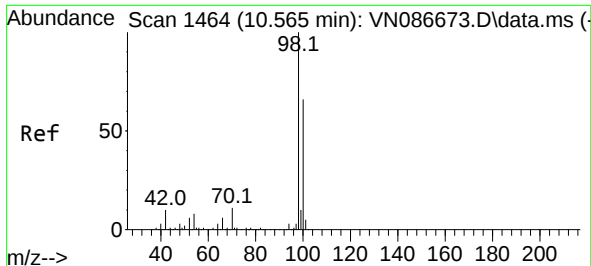
Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 215.0 55.3 82.9#

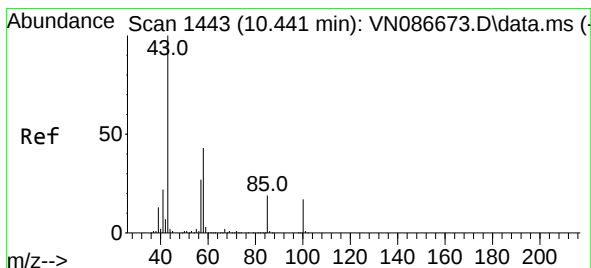
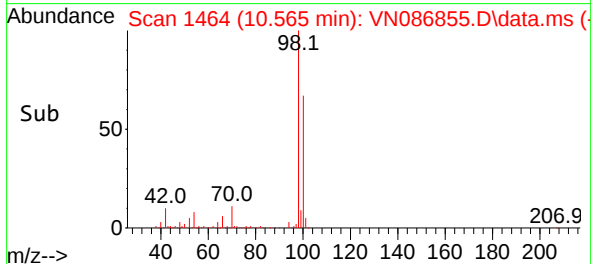
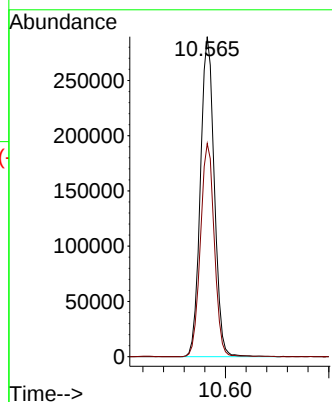
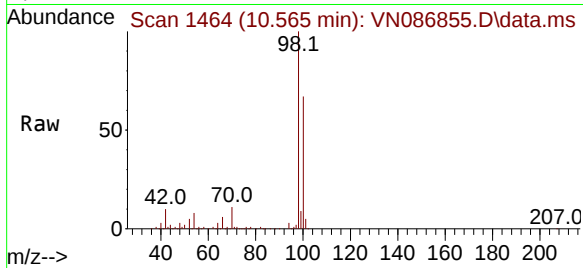




#50
Toluene-d8
Concen: 51.030 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

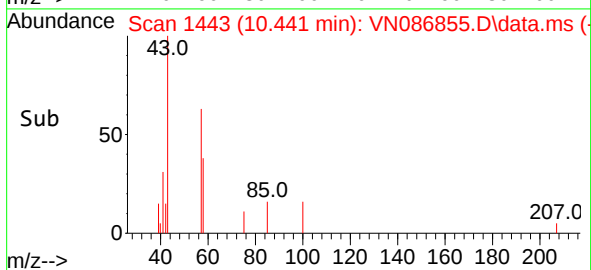
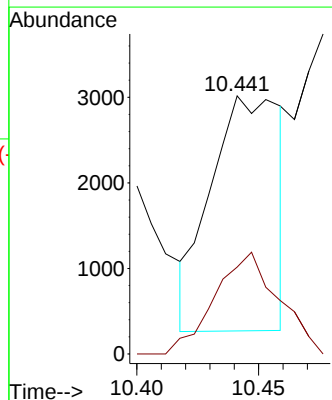
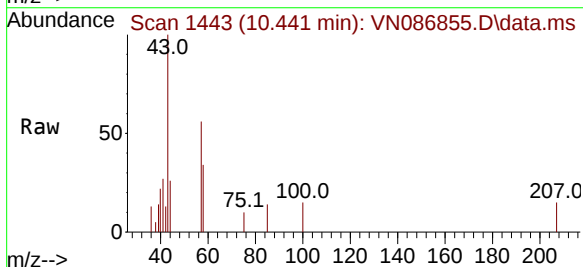
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

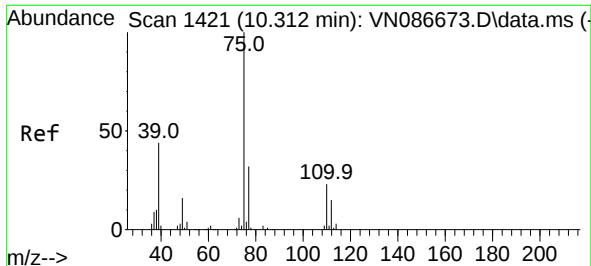
Tgt Ion: 98 Resp: 539671
Ion Ratio Lower Upper
98 100
100 66.5 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.416 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 43 Resp: 5445
Ion Ratio Lower Upper
43 100
58 40.8 33.9 50.9

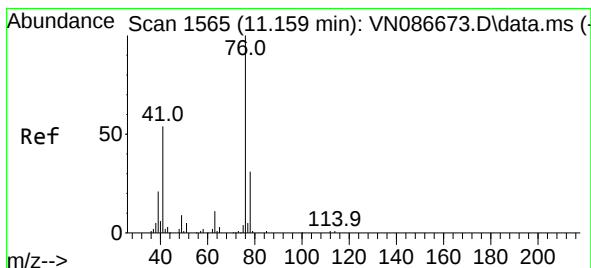
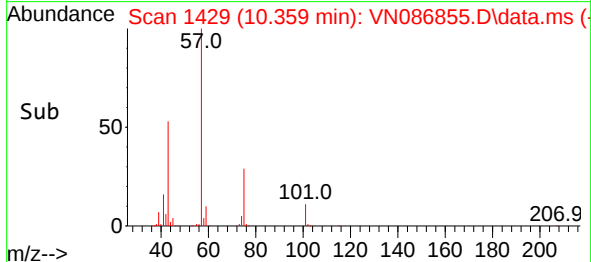
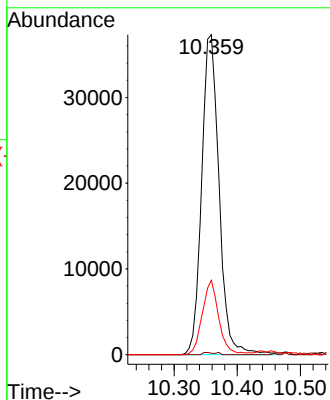
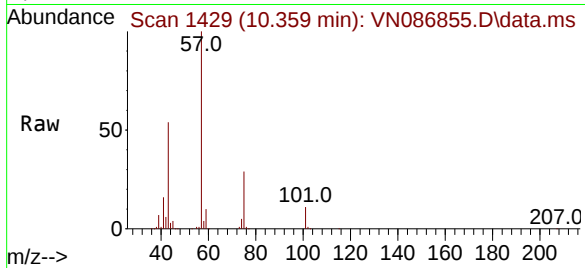




#54
cis-1,3-Dichloropropene
Concen: 15.250 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

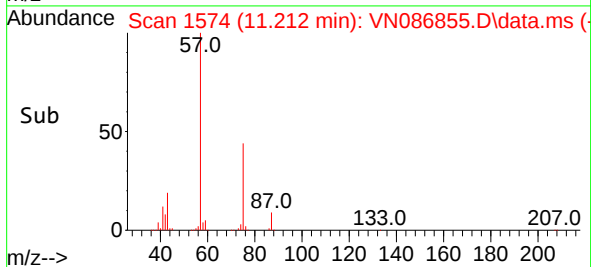
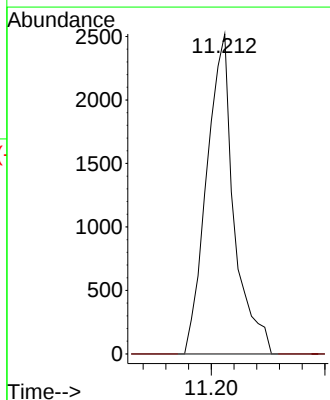
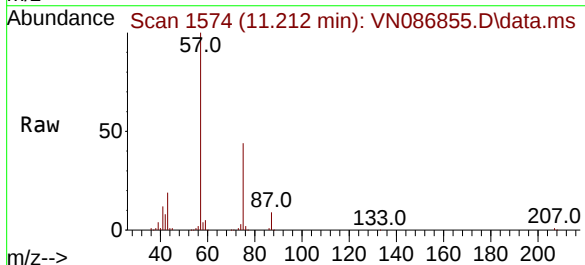
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

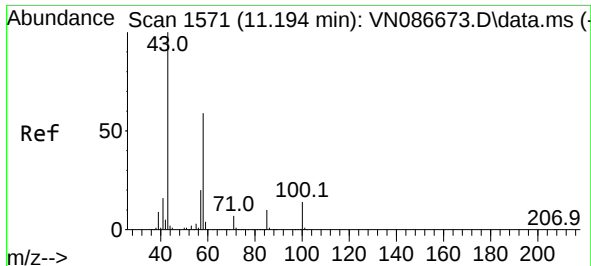
Tgt Ion: 75 Resp: 71486
Ion Ratio Lower Upper
75 100
77 0.5 25.3 37.9#
39 23.3 35.2 52.8#



#57
1,3-Dichloropropane
Concen: 0.858 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.053 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 76 Resp: 4210
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

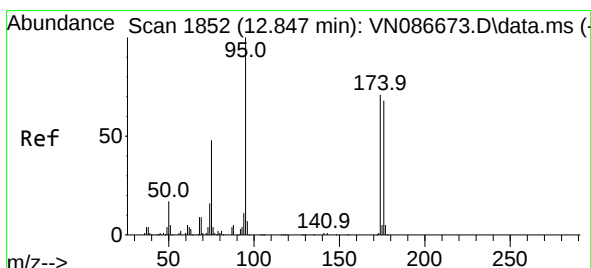
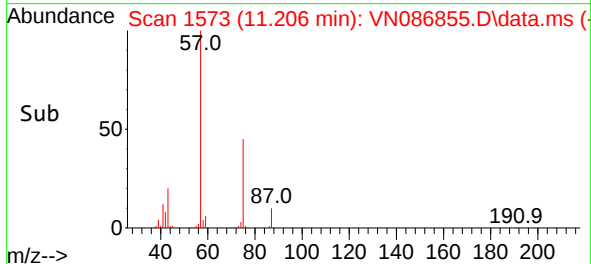
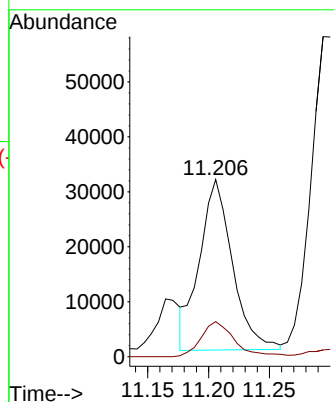
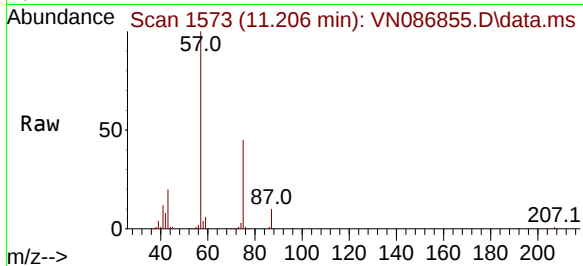




#59
2-Hexanone
Concen: 20.839 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.012 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

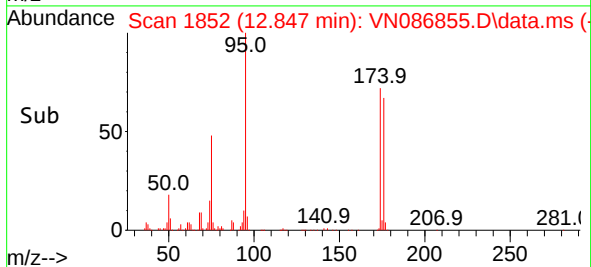
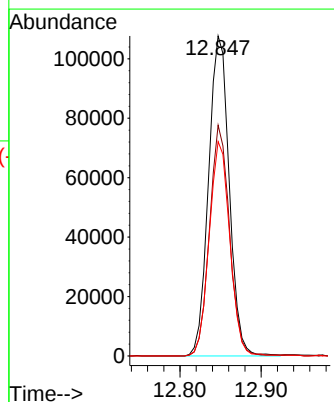
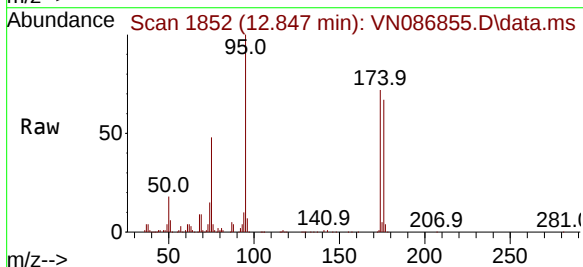
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

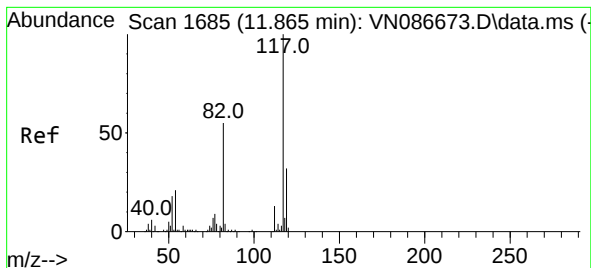
Tgt Ion: 43 Resp: 58500
Ion Ratio Lower Upper
43 100
58 20.9 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 50.943 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 95 Resp: 190230
Ion Ratio Lower Upper
95 100
174 70.0 0.0 145.4
176 66.8 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086855.D

Acq: 03 Jun 2025 20:12

Instrument :

MSVOA_N

ClientSampleId :

B-187-SB01

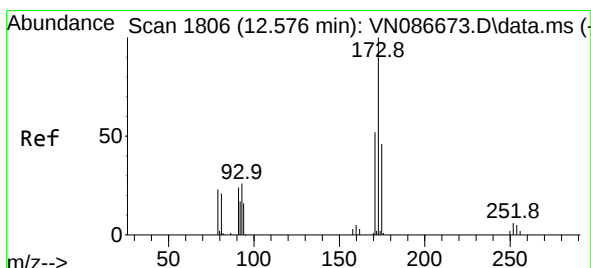
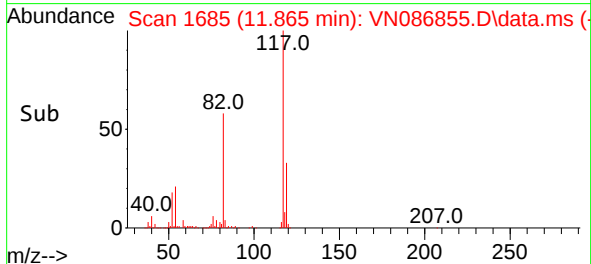
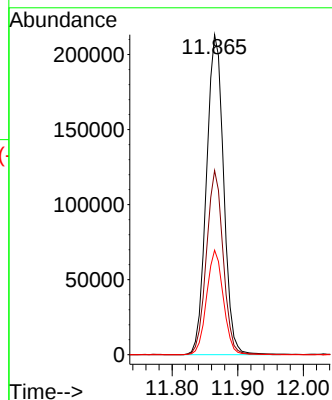
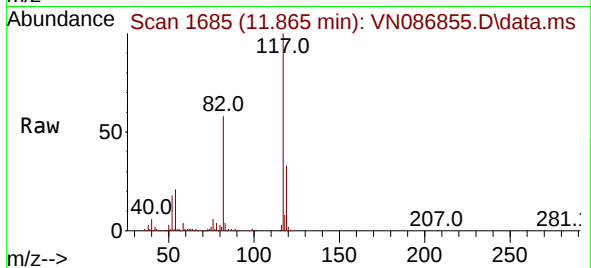
Tgt Ion:117 Resp: 389120

Ion Ratio Lower Upper

117 100

82 57.5 44.2 66.2

119 32.6 25.4 38.2



#71

Bromoform

Concen: 0.454 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.270 min

Lab File: VN086855.D

Acq: 03 Jun 2025 20:12

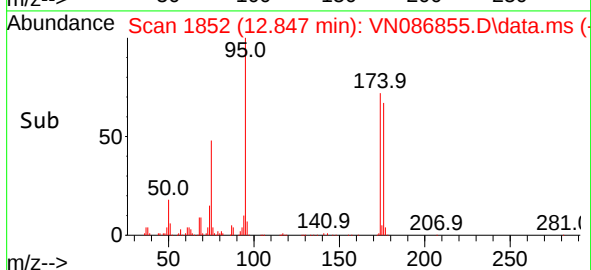
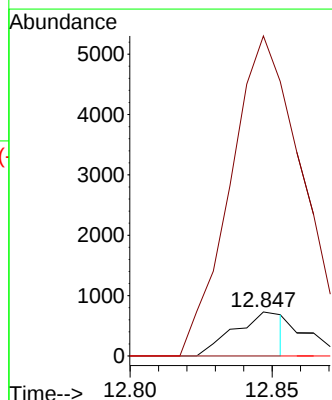
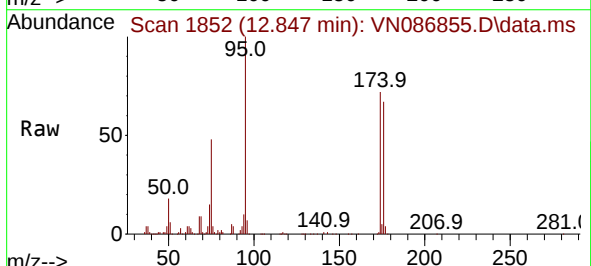
Tgt Ion:173 Resp: 890

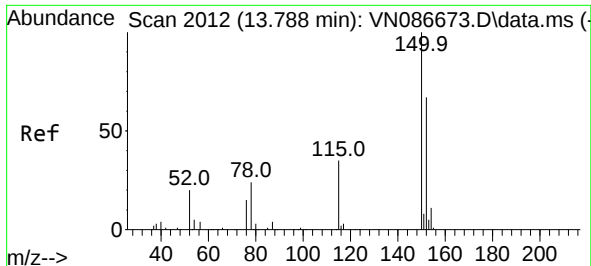
Ion Ratio Lower Upper

173 100

175 765.7 23.4 70.2#

254 0.0 0.0 0.0

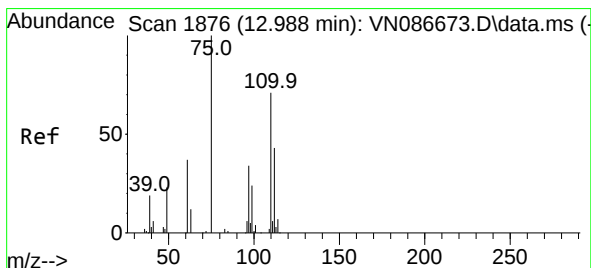
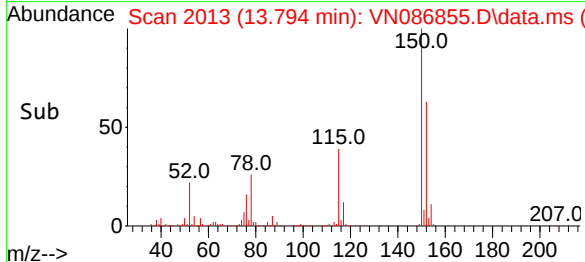
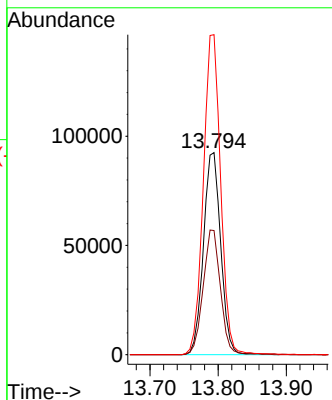
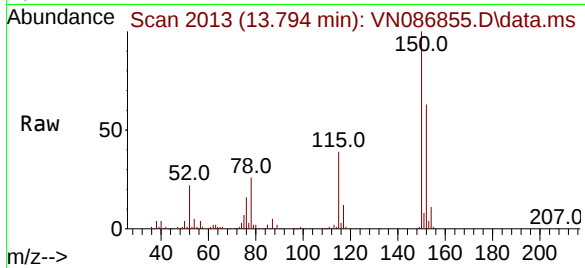




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2012
Delta R.T. 0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

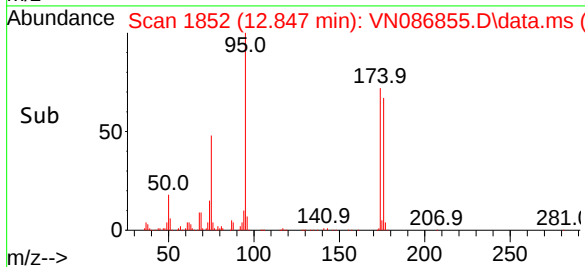
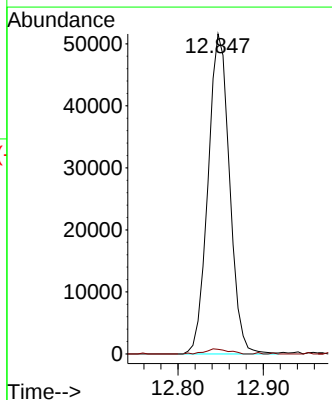
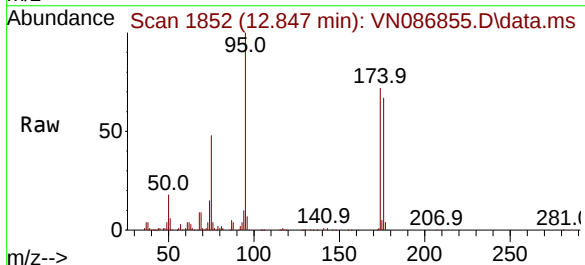
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

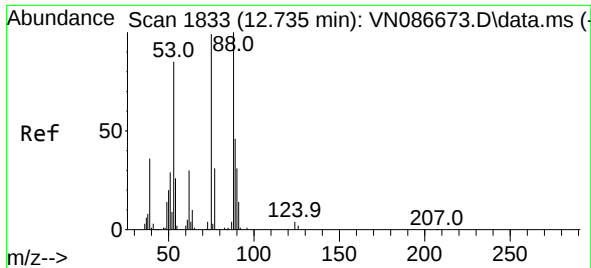
Tgt Ion:152 Resp: 163382
Ion Ratio Lower Upper
152 100
115 61.6 30.0 90.1
150 158.5 0.0 347.8



#76
1,2,3-Trichloropropane
Concen: 24.514 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 75 Resp: 90581
Ion Ratio Lower Upper
75 100
77 1.7 96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.866 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086855.D
 Acq: 03 Jun 2025 20:12

Instrument :
 MSVOA_N
 ClientSampleId :
 B-187-SB01

Tgt Ion: 75 Resp: 90581
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.1 32.4 48.6#

